FCC Test Report

Product Name ： Dual band AC1900 USB 3.0 Wi-Fi Adapter

Trade Name ： ASUS

Model No. ： USB-AC68

FCC ID. ： MSQ-USBR700

Applicant ： ASUSTeK COMPUTER INC.

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

Date of Receipt ： Nov. 30, 2015

Issued Date ： May 11, 2016

Report No. ： 15C0048R-RFUSP28V00

Report Version ： V1.0

Test Report Certification

Issued Date : May 11, 2016
Report No. : 15C0048R-RFUSP28V00

Product Name	:	Dual band AC1900 USB 3.0 Wi-Fi Adapter
Applicant	:	ASUSTeK COMPUTER INC.
Address	:	4F, No. 150, Li-Te Rd., Peitou, Taipei, Taiwan
Manufacturer	:	ASUSTeK COMPUTER INC.
Model No.	:	USB-AC68
FCC ID.	:	MSQ-USBR700
EUT Voltage	:	DC 5V (Power by Notebook PC)
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 : (Demi Chang / Senior Engineering Adm. Specialist)

Tested By : (JuBo Shen / Senior Engineer)

Approved By : (Roy Wang / Director)

Revision History

Report No.	Version	Description	Issued Date
15C0048R-RFUSP28V00	V1.0	Initial issue of report	May 11, 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: 365520**
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:

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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 AC1900 USB 3.0 Wi-Fi Adapter	
Trade Name	ASUS	
Model No.	USB-AC68	
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

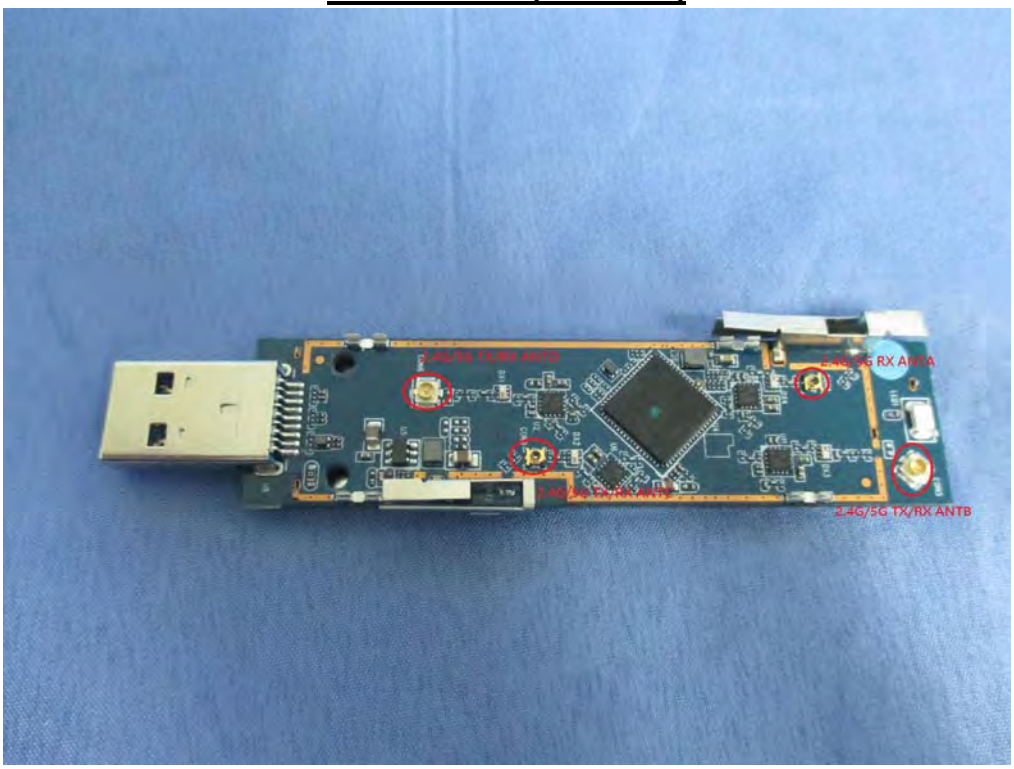
Antenna Information	
Antenna Gain	2.4G(3Tx/4Rx): RX(Chain A):2.55dBi TX/RX Ant0(Chain B): 2.71dBi TX/RX Ant1(Chain C): 2.41dBi TX/RX Ant2(Chain D): 2.52dBi 5G(3Tx/4Rx): RX(Chain A):3.89dBi TX/RX Ant0(Chain B): 3.89dBi TX/RX Ant1(Chain C): 3.55dBi TX/RX Ant2(Chain D): 4.03dBi
Beamforming Gain	2.4G: 1.51dBi 5G:1.75dBi
Antenna Type	FPC/PIFA Antenna

Accessories Information	
Cradle Cable	Shielded, 1m

ANT-TX / RX & Bandwidth

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

2.4GHz WLAN (3TX / 4RX)



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

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
16	BPSK	1/2	1	156	324	78	162	19.5	40.5	21.7	45.0
17	QPSK	1/2	2	312	648	156	324	39.0	81.0	43.3	90.0
18	QPSK	3/4	2	312	648	234	486	58.5	121.5	65.0	135.0
19	16-QAM	1/2	4	624	1296	312	648	78.0	162.0	86.7	180.0
20	16-QAM	3/4	4	624	1296	468	972	117.0	243.0	130.0	270.0
21	64-QAM	2/3	6	936	1944	624	1296	156.0	324.0	173.3	360.0
22	64-QAM	3/4	6	936	1944	702	1458	175.5	364.5	195.0	405.0
23	64-QAM	5/6	6	936	1944	780	1620	195.0	405.0	216.7	450.0
Note 1: Support of 400ns GI is optional on transmit and receive.											

Table 3 – MCS parameters for TX Antenna number = 3

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

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 AC1900 USB 3.0 Wi-Fi Adapter including 2.4GHz b/g/n (3x4) and 5GHz a/n/ac (3x4) transmitting and receiving function.
2. These test results on a sample of the device are for the purpose of demonstrating Compliance with Part 15 Subpart C Paragraph 15.247.
3. Regards to the frequency band operation; the lowest、middle and highest frequency of channel were selected to perform the test, and then shown on this report.
4. The function of the 5.2GHz, 5.8GHz transmitting is measured and makes a test report of the report number: 15C0048R-RFUSP56V00.
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 15C0048R-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_MIMO Mode Mode 3: Transmit_Beamforming Mode

Test Items	Modulation	Channel	Antenna	Result
Conducted Emission	11n(40MHz)	6	0+1+2	Complies
Peak Power Output	11b/g	1/ 6/ 11	0/1/2	Complies
	11n(20MHz)	1/ 6/ 11	0+1+2	Complies
	11n(40MHz)	3 /6 /9	0+1+2	Complies
Radiated Emission	11b/g	1/ 6/ 11	0	Complies
	11n(20MHz)	1/ 6/ 11	0+1+2	Complies
	11n(40MHz)	3 /6 /9	0+1+2	Complies
RF antenna conducted test	11b/g	1/ 6/ 11	0/1/2	Complies
	11n(20MHz)	1/ 6/ 11	0/1/2	Complies
	11n(40MHz)	3 /6 /9	0/1/2	Complies
Radiated Emission Band Edge	11b/g	1/ 6/ 11	0	Complies
	11n(20MHz)	1/ 6/ 11	0/1/2	Complies
	11n(40MHz)	3 /6 /9	0/1/2	Complies
DTS Bandwidth	11b/g	1/ 6/ 11	0/1/2	Complies
	11n(20MHz)	1/ 6/ 11	0/1/2	Complies
	11n(40MHz)	3 /6 /9	0/1/2	Complies
Occupied Bandwidth	11b/g	1/ 6/ 11	0/1/2	Complies
	11n(20MHz)	1/ 6/ 11	0/1/2	Complies
	11n(40MHz)	3 /6 /9	0/1/2	Complies
Power Density	11b/g	1/ 6/ 11	0/1/2	Complies
	11n(20MHz)	1/ 6/ 11	0+1+2	Complies
	11n(40MHz)	3 /6 /9	0+1+2	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:

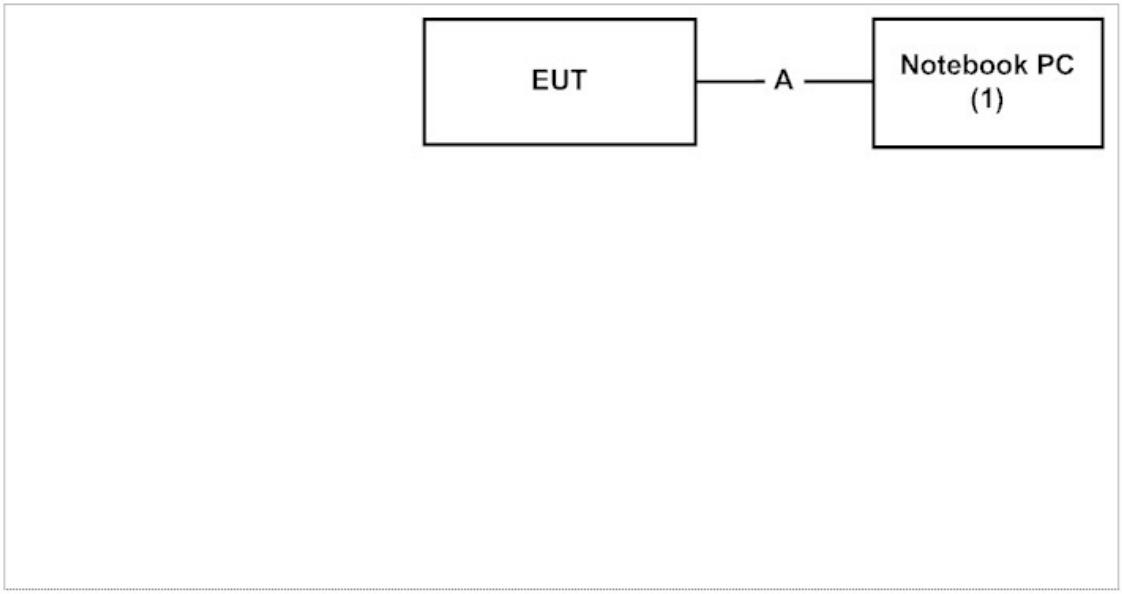
Test Mode		Mode 1: Transmit_SISO Mode Mode 2: Transmit_MIMO Mode				
Product		Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1	Notebook PC	ASUS	X522EP	E5N0CV043264197	DoC	Non-Shielded, 1.8m, one ferrite core bonded

Test Mode		Mode 3: Transmit_Beamforming Mode				
Product		Manufacturer	Model No.	Serial No.	FCC ID	Power Cord
1	Notebook PC	ASUS	X522EP	E5N0CV043264197	DoC	Non-Shielded, 1.8m, one ferrite core bonded
2	Notebook PC	DELL	Vostro3400	7F808N1	DoC	Non-Shielded, 1.8m
3	Router	RealTek	AP-#173	N/A	DoC	--

1.4. Configuration of tested System

Test Mode	Mode 2: Transmit_MIMO Mode

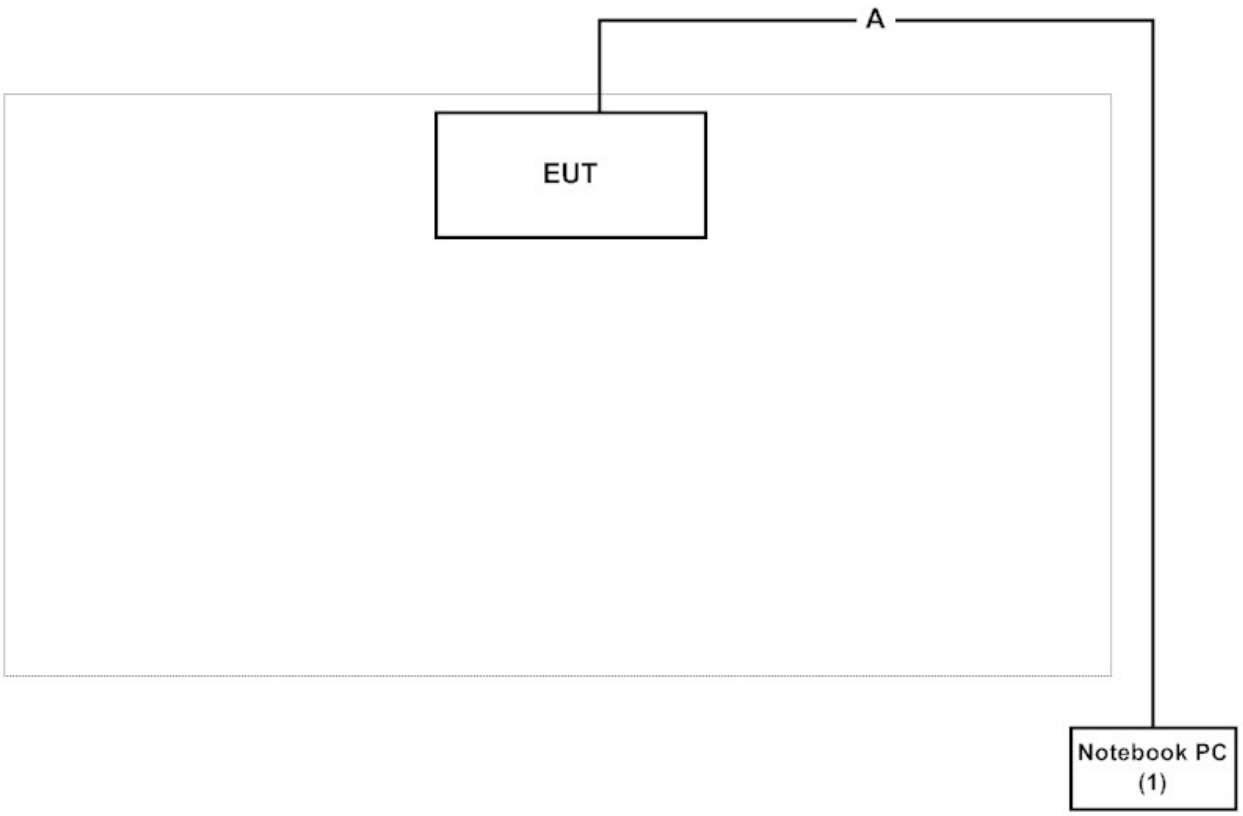
Connection Diagram (Only for Conducted Emission Test)



Signal Cable Type		Signal cable Description
A	USB Cable	Shielded, 3m

Test Mode	Mode 1: Transmit_SISO Mode Mode 2: Transmit_MIMO Mode

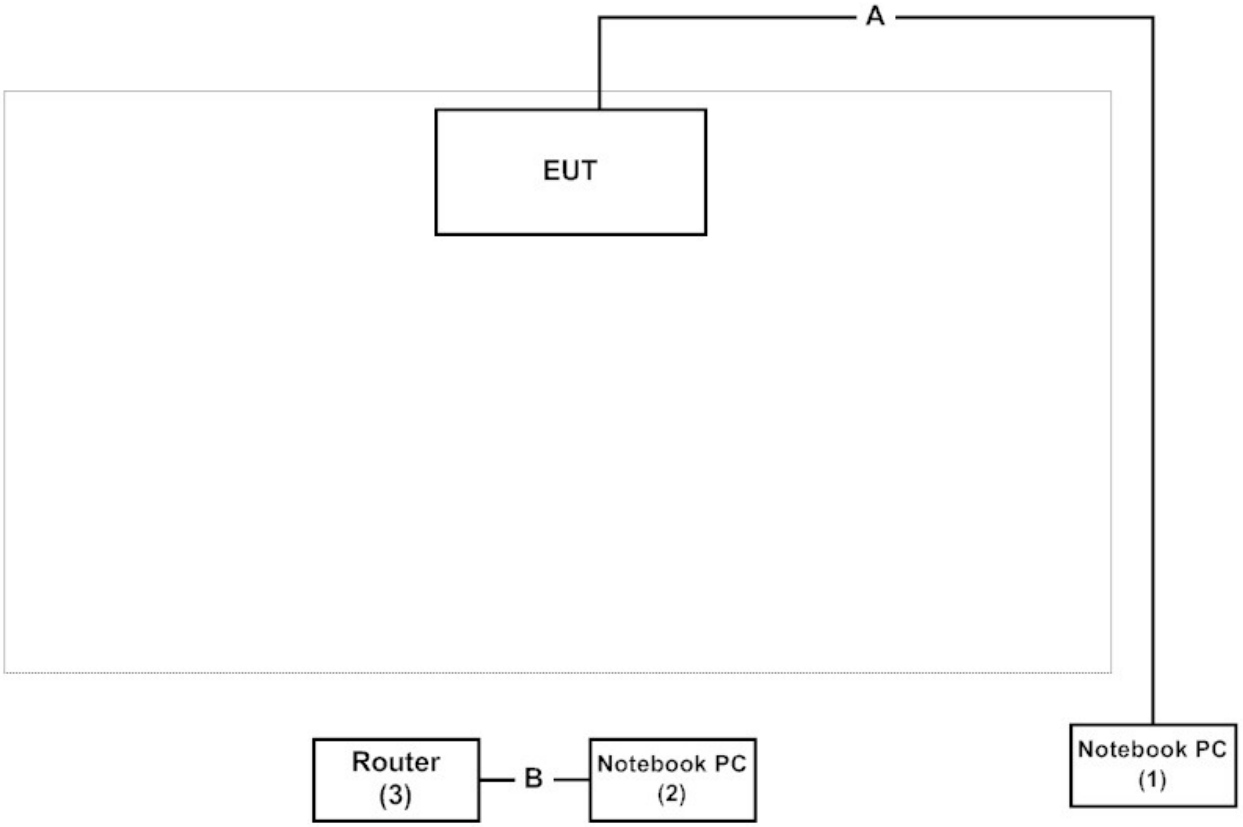
Connection Diagram



Signal Cable Type		Signal cable Description
A	USB Cable	Shielded, 3m

Test Mode	Mode 3: Transmit_Beamforming Mode

Connection Diagram



Signal Cable Type		Signal cable Description
A	USB Cable	Shielded, 3m
B	LAN Cable	Non-Shielded, 3m

1.5. EUT Exercise Software

1	Setup the EUT as shown in Section 1.4.
2	Execute “Realtek 11ac 8814AU USB WLAN NIC Kit” 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

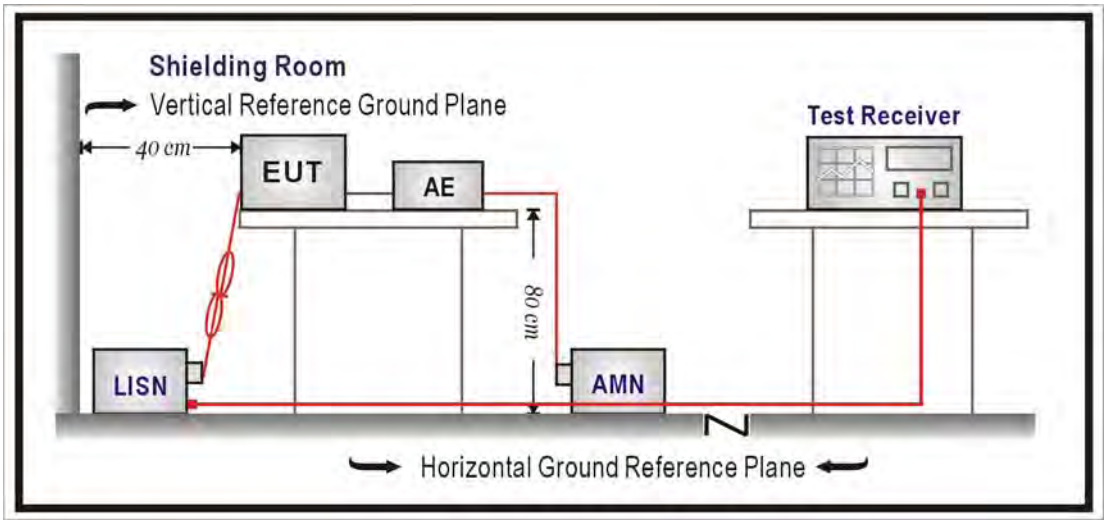
The following test equipments are used during the test:

Conducted Emission / SR3

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
LISN	R&S	ENV216	100096	2016/07/27
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

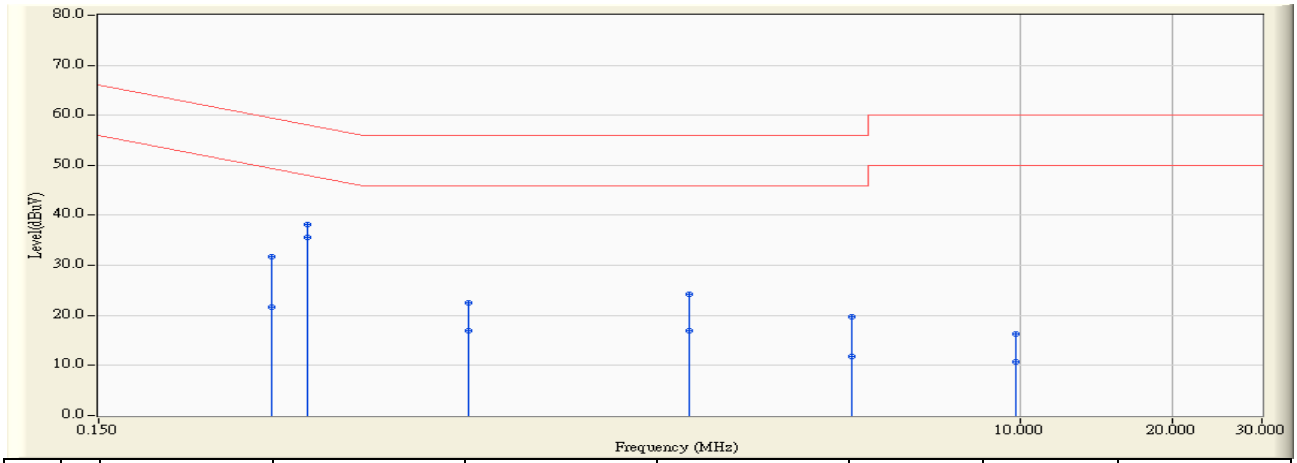
According to FCC Part 15 Subpart C Paragraph 15.207: 2015

2.6. Uncertainty

The measurement uncertainty is defined as ± 2.26 dB.

2.7. Test Result

Site : SR3	**Time : 2016/04/18 - 10:00**
Limit : CISPR_B_00M_QP	**Margin : 0**
Probe : SR3_LISN(16A)-5_0728 - Line1	**Power : AC 120V/60Hz**
EUT : Dual band AC1900 USB 3.0 Wi-Fi Adapter	**Note : Mode 2: Transmit_MIMO Mode 802.11n(40M)_2437MHz**

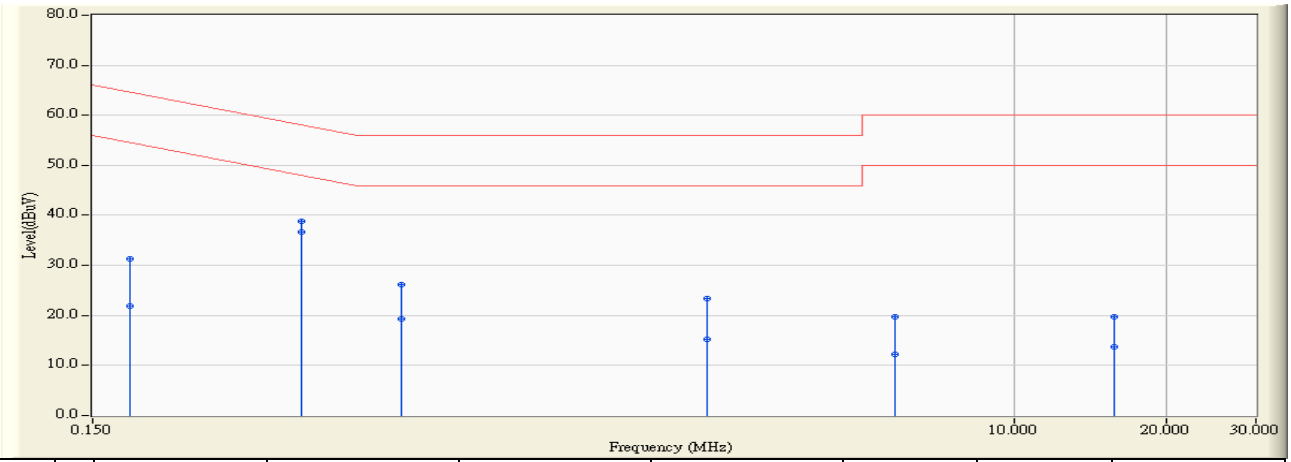


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.330	9.766	21.980	31.746	-27.712	59.458	QUASIPEAK
2		0.330	9.766	11.930	21.696	-27.762	49.458	AVERAGE
3		0.387	9.774	28.500	38.274	-19.852	58.126	QUASIPEAK
4	*	0.387	9.774	25.860	35.634	-12.492	48.126	AVERAGE
5		0.810	9.790	12.660	22.450	-33.550	56.000	QUASIPEAK
6		0.810	9.790	7.200	16.990	-29.010	46.000	AVERAGE
7		2.205	9.827	14.400	24.227	-31.773	56.000	QUASIPEAK
8		2.205	9.827	7.100	16.927	-29.073	46.000	AVERAGE
9		4.627	9.915	9.900	19.815	-36.185	56.000	QUASIPEAK
10		4.627	9.915	1.780	11.695	-34.305	46.000	AVERAGE
11		9.752	10.111	6.140	16.250	-43.750	60.000	QUASIPEAK
12		9.752	10.111	0.570	10.680	-39.320	50.000	AVERAGE

Note:

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

Site : SR3	**Time : 2016/04/18 - 10:07**
Limit : CISPR_B_00M_QP	**Margin : 10**
Probe : SR3_LISN(16A)-5_0728 - Line2	**Power : AC 120V/60Hz**
EUT : Dual band AC1900 USB 3.0 Wi-Fi Adapter	**Note : Mode 2: Transmit_MIMO Mode 802.11n(40M)_2437MHz**



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV)	Margin (dB)	Limit (dBuV)	Detector Type
1		0.177	9.746	21.560	31.306	-33.303	64.609	QUASIPEAK
2		0.177	9.746	12.070	21.816	-32.793	54.609	AVERAGE
3		0.387	9.765	29.000	38.764	-19.363	58.128	QUASIPEAK
4	*	0.387	9.765	27.010	36.774	-11.353	48.128	AVERAGE
5		0.611	9.784	16.340	26.124	-29.876	56.000	QUASIPEAK
6		0.611	9.784	9.510	19.294	-26.706	46.000	AVERAGE
7		2.462	9.837	13.520	23.357	-32.643	56.000	QUASIPEAK
8		2.462	9.837	5.450	15.287	-30.713	46.000	AVERAGE
9		5.814	9.968	9.660	19.629	-40.371	60.000	QUASIPEAK
10		5.814	9.968	2.210	12.179	-37.821	50.000	AVERAGE
11		15.697	10.302	9.500	19.802	-40.198	60.000	QUASIPEAK
12		15.697	10.302	3.370	13.672	-36.328	50.000	AVERAGE

Note:

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

3. Peak Power Output

3.1. Test Equipment

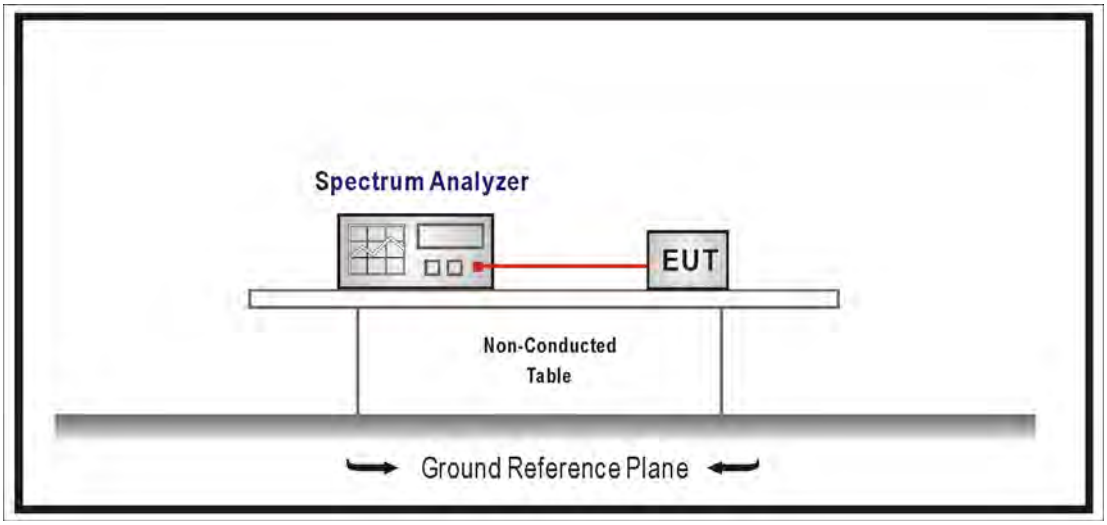
The following test equipments are used during the test:

Peak Power Output / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2016/08/23

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 AC1900 USB 3.0 Wi-Fi Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_SISO Mode		
Date of Test	2016/03/18	Test Site	SR7

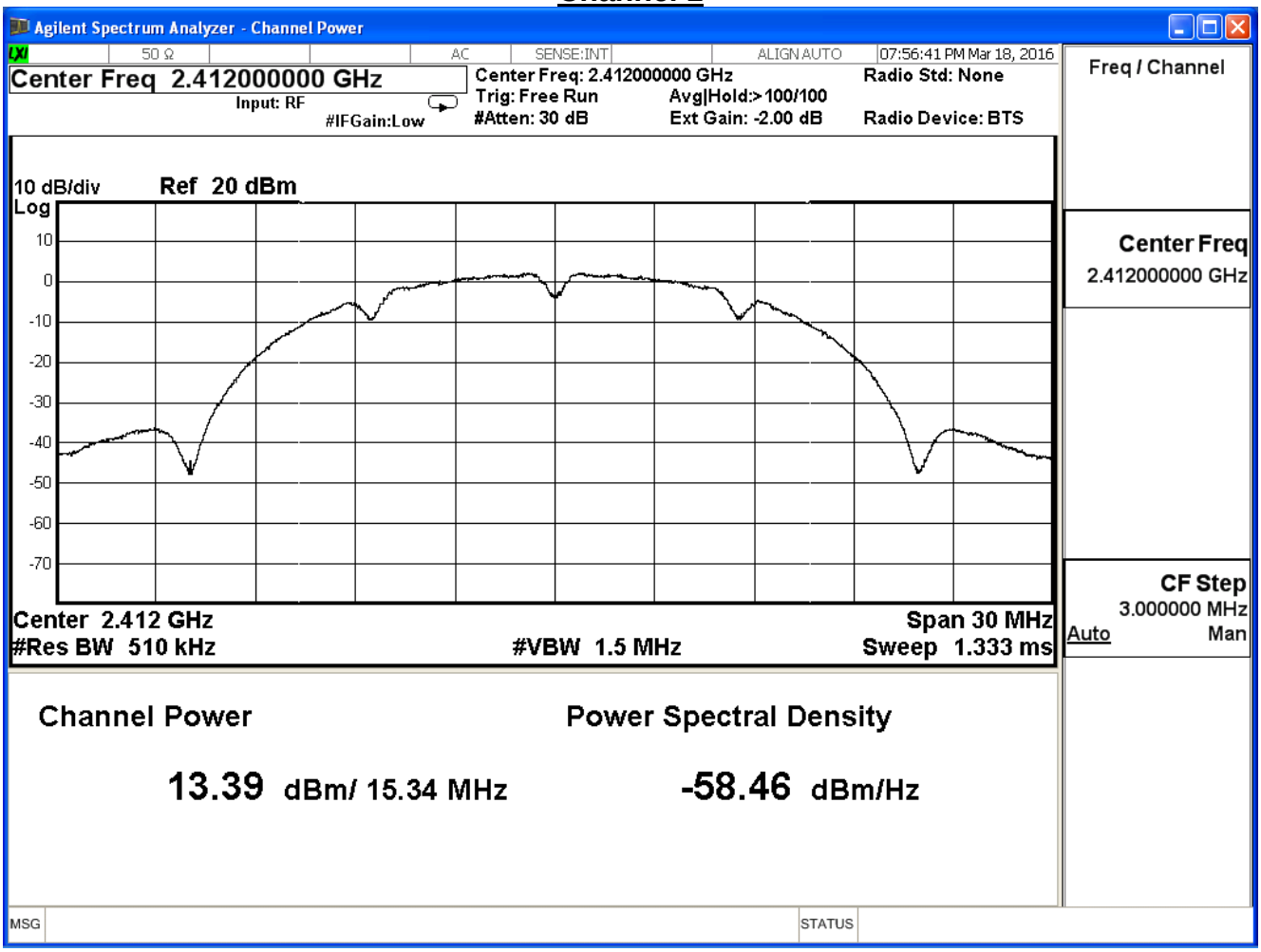
IEEE 802.11b (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	13.39	≦30
6	2437	13.70	≦30
11	2462	13.78	≦30

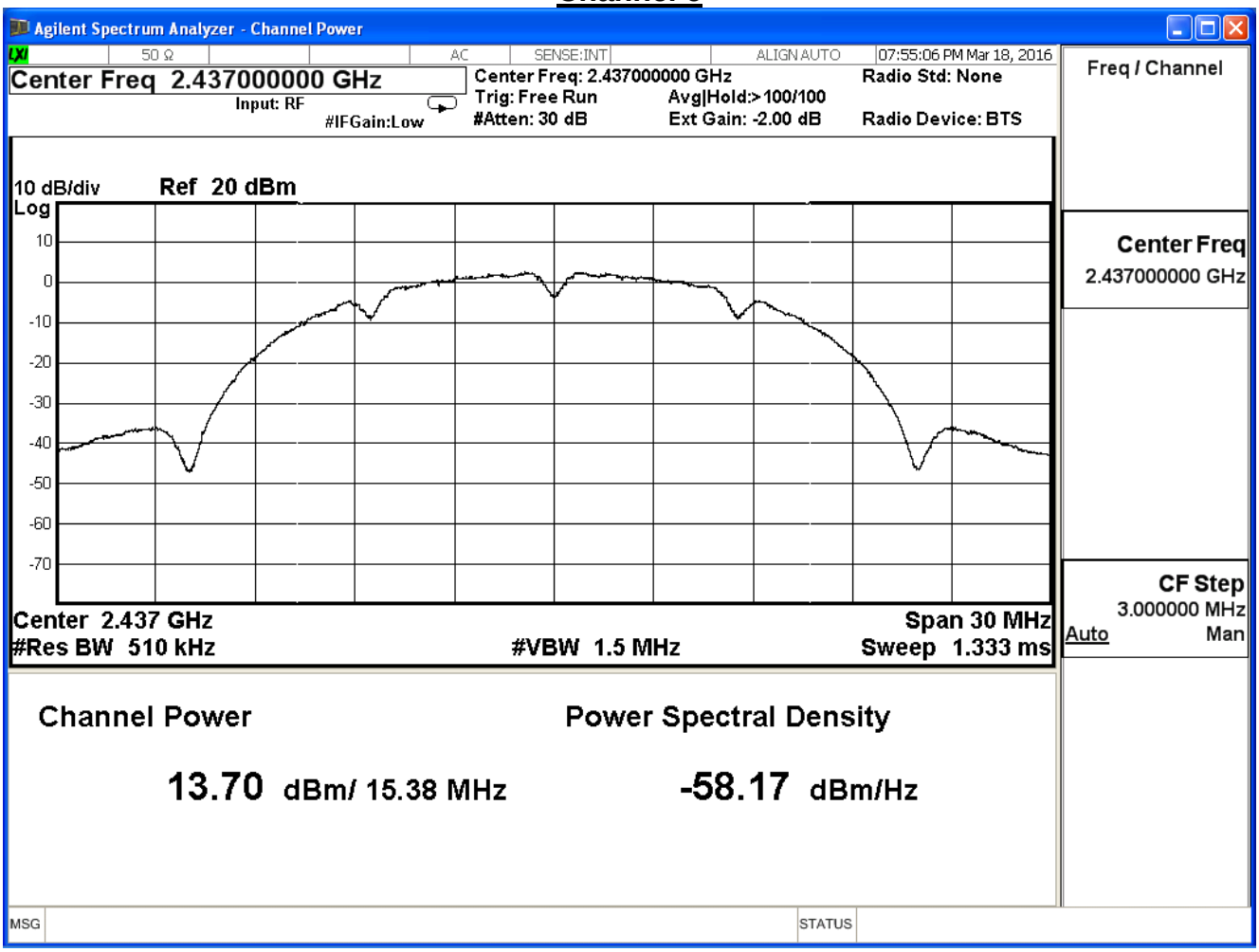
The worst emission of data rate is 1Mbps

Peak Power Output (dBm)						
Channel No	Frequency (MHz)	Data Rate (Mbps)				Required Limit
		1	2	5.5	11	
1	2412	13.39	--	--	--	≦30
6	2437	13.70	13.68	13.66	13.61	≦30
11	2462	13.78	--	--	--	≦30

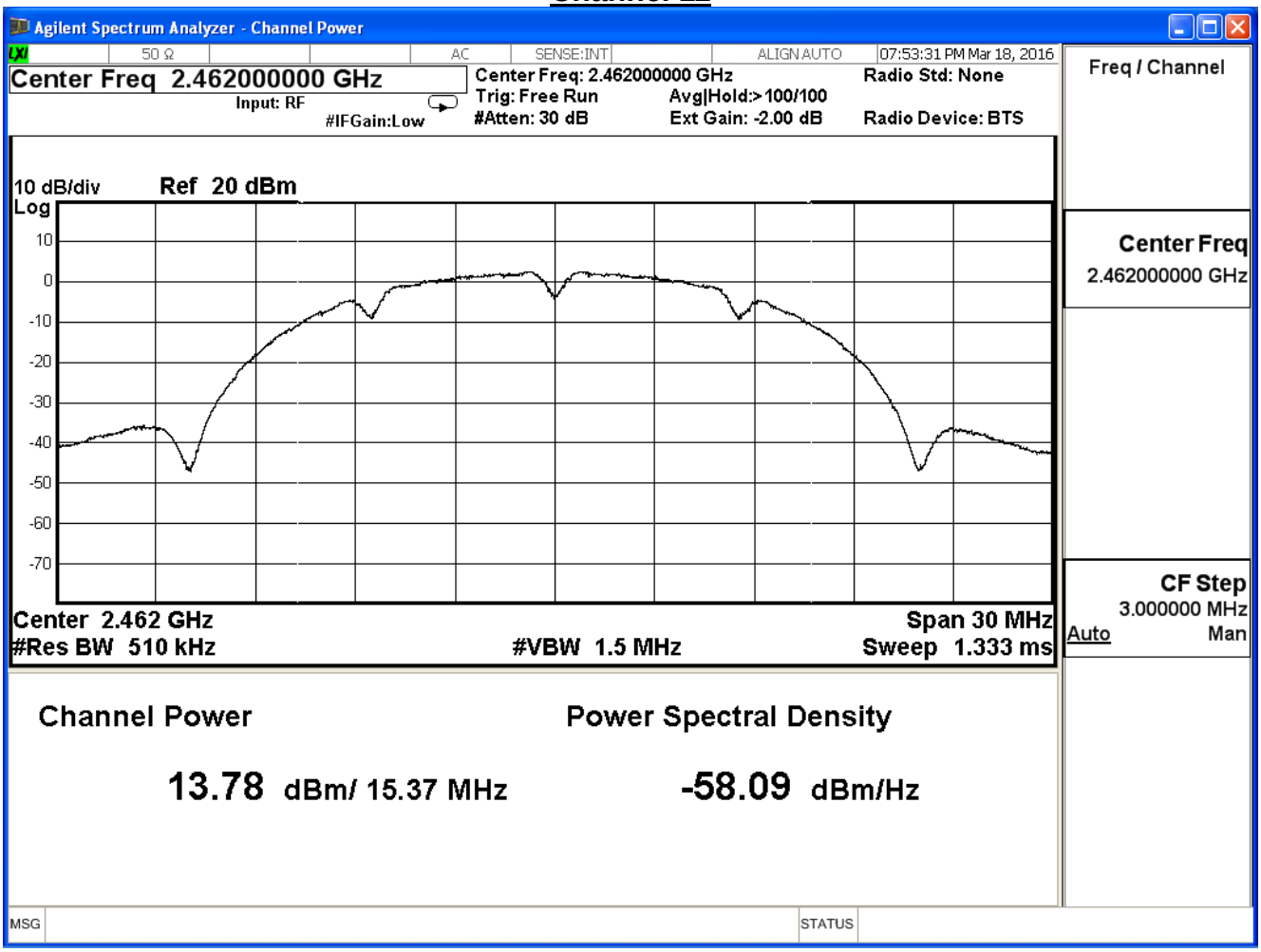
Channel 1


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:56:41 PM Mar 18, 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: -2.00 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 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
13.39 dBm/ 15.34 MHz
Power Spectral Density
-58.46 dBm/Hz
MSG
STATUS

Channel 6


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:55:06 PM Mar 18, 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: -2.00 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 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
13.70 dBm/ 15.38 MHz
Power Spectral Density
-58.17 dBm/Hz
MSG
STATUS

Channel 11


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:53:31 PM Mar 18, 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: -2.00 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 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
13.78 dBm/ 15.37 MHz
Power Spectral Density
-58.09 dBm/Hz
MSG
STATUS

Product	Dual band AC1900 USB 3.0 Wi-Fi Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_SISO Mode		
Date of Test	2016/03/18	Test Site	SR7

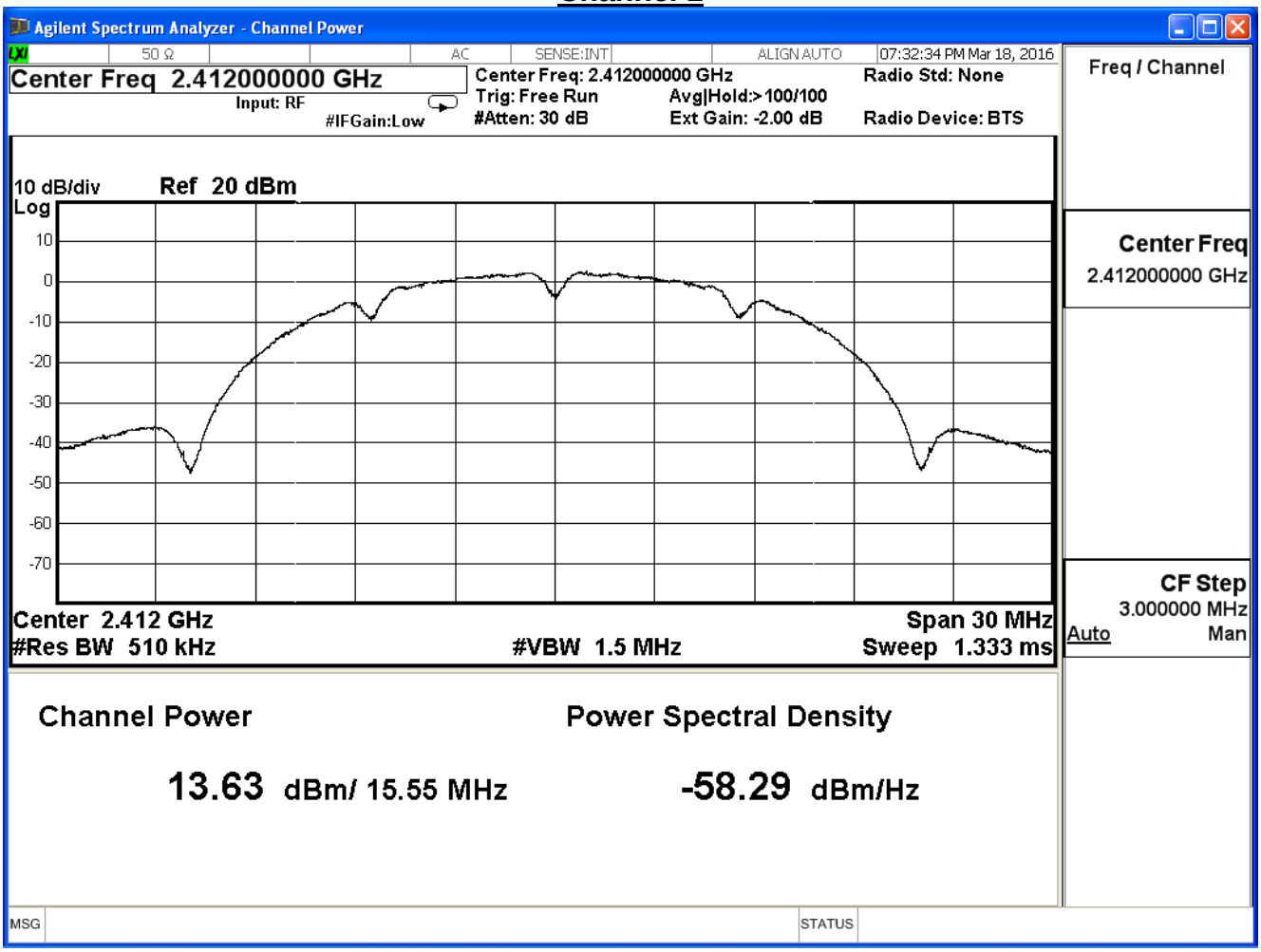
IEEE 802.11b (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	13.63	≦30
6	2437	13.70	≦30
11	2462	13.61	≦30

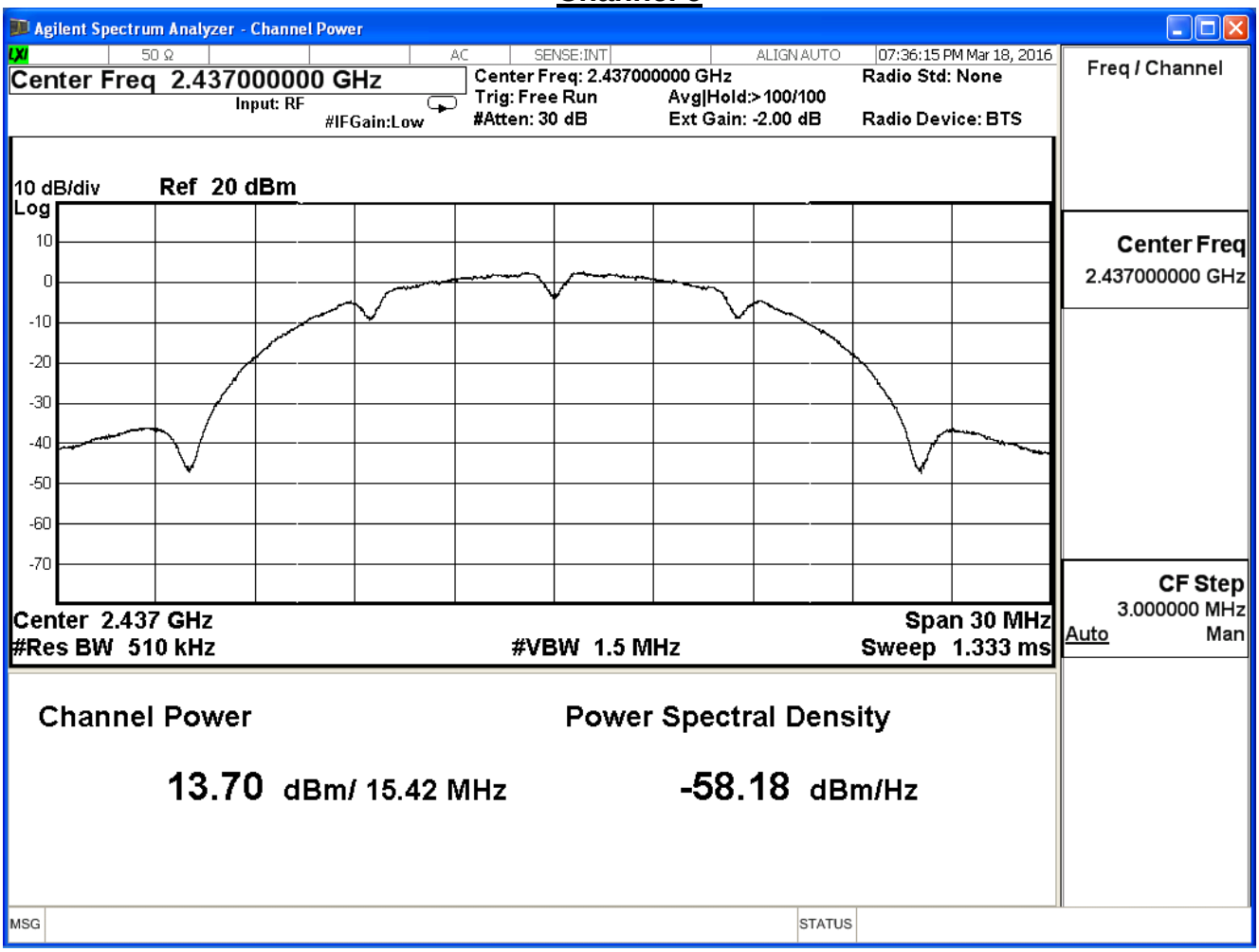
The worst emission of data rate is 1Mbps

Peak Power Output (dBm)						
Channel No	Frequency (MHz)	Data Rate (Mbps)				Required Limit
		1	2	5.5	11	
1	2412	13.63	--	--	--	≦30
6	2437	13.70	13.67	13.65	13.62	≦30
11	2462	13.61	--	--	--	≦30

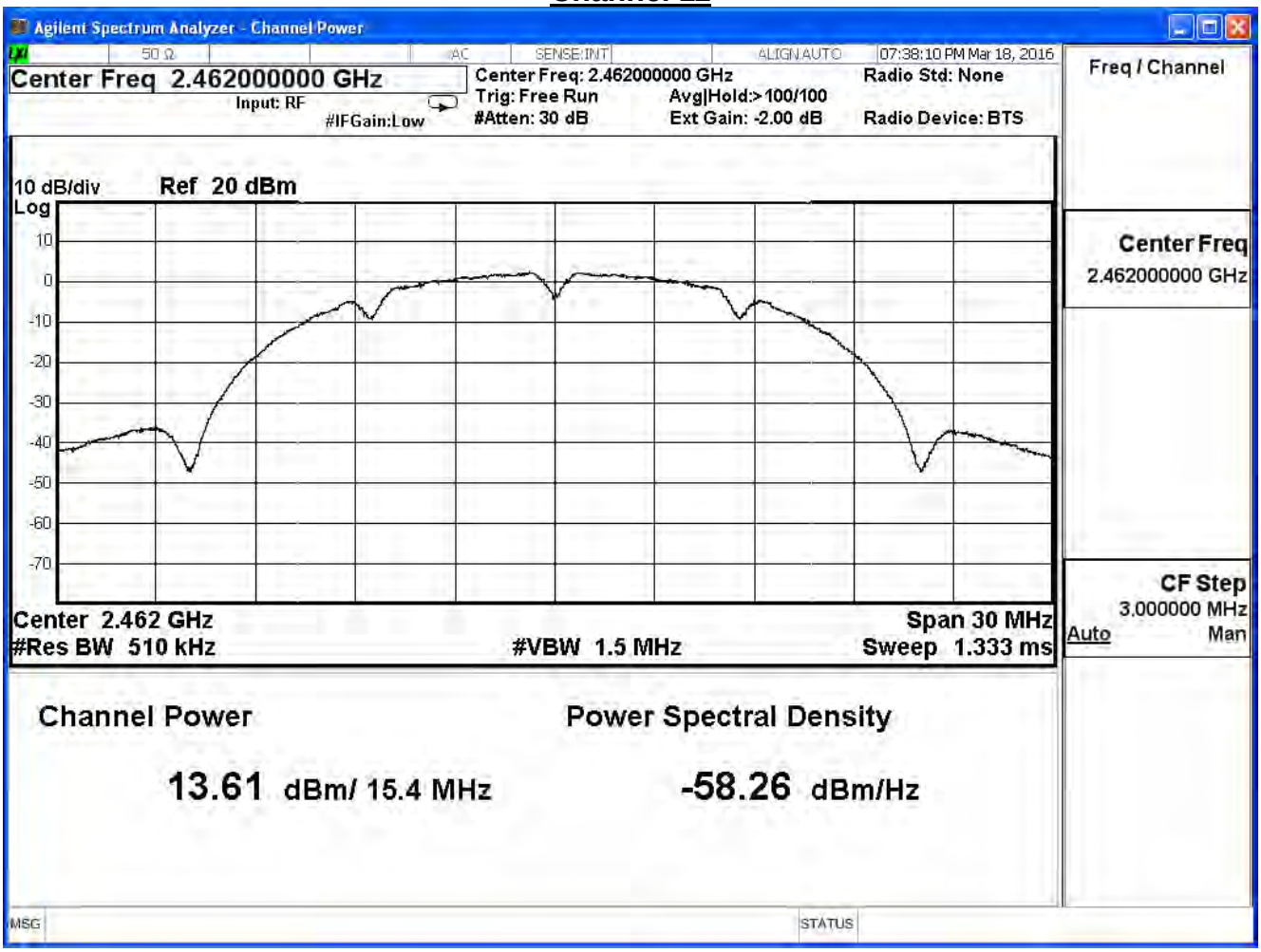
Channel 1


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:32:34 PM Mar 18, 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: -2.00 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 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
13.63 dBm/ 15.55 MHz
Power Spectral Density
-58.29 dBm/Hz
MSG
STATUS

Channel 6


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:36:15 PM Mar 18, 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: -2.00 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 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
13.70 dBm/ 15.42 MHz
Power Spectral Density
-58.18 dBm/Hz
MSG
STATUS

Channel 11


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:38:10 PM Mar 18, 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: -2.00 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
3.000000 MHz
Auto
Man
Center 2.462 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
Channel Power
13.61 dBm/ 15.4 MHz
Power Spectral Density
-58.26 dBm/Hz
MSG
STATUS

Product	Dual band AC1900 USB 3.0 Wi-Fi Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_SISO Mode		
Date of Test	2016/03/18	Test Site	SR7

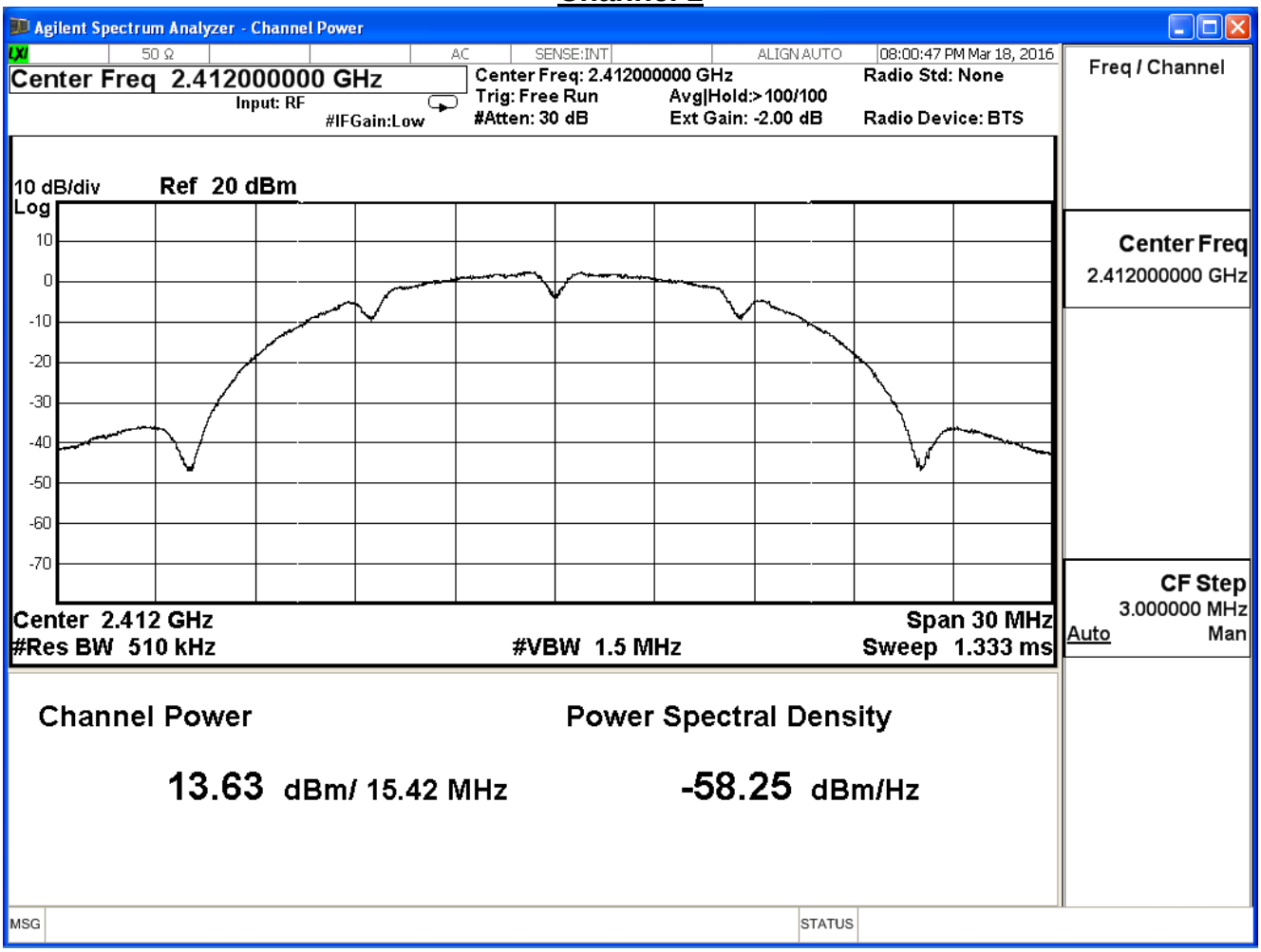
IEEE 802.11b (ANT 2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	13.63	≦30
6	2437	13.66	≦30
11	2462	13.42	≦30

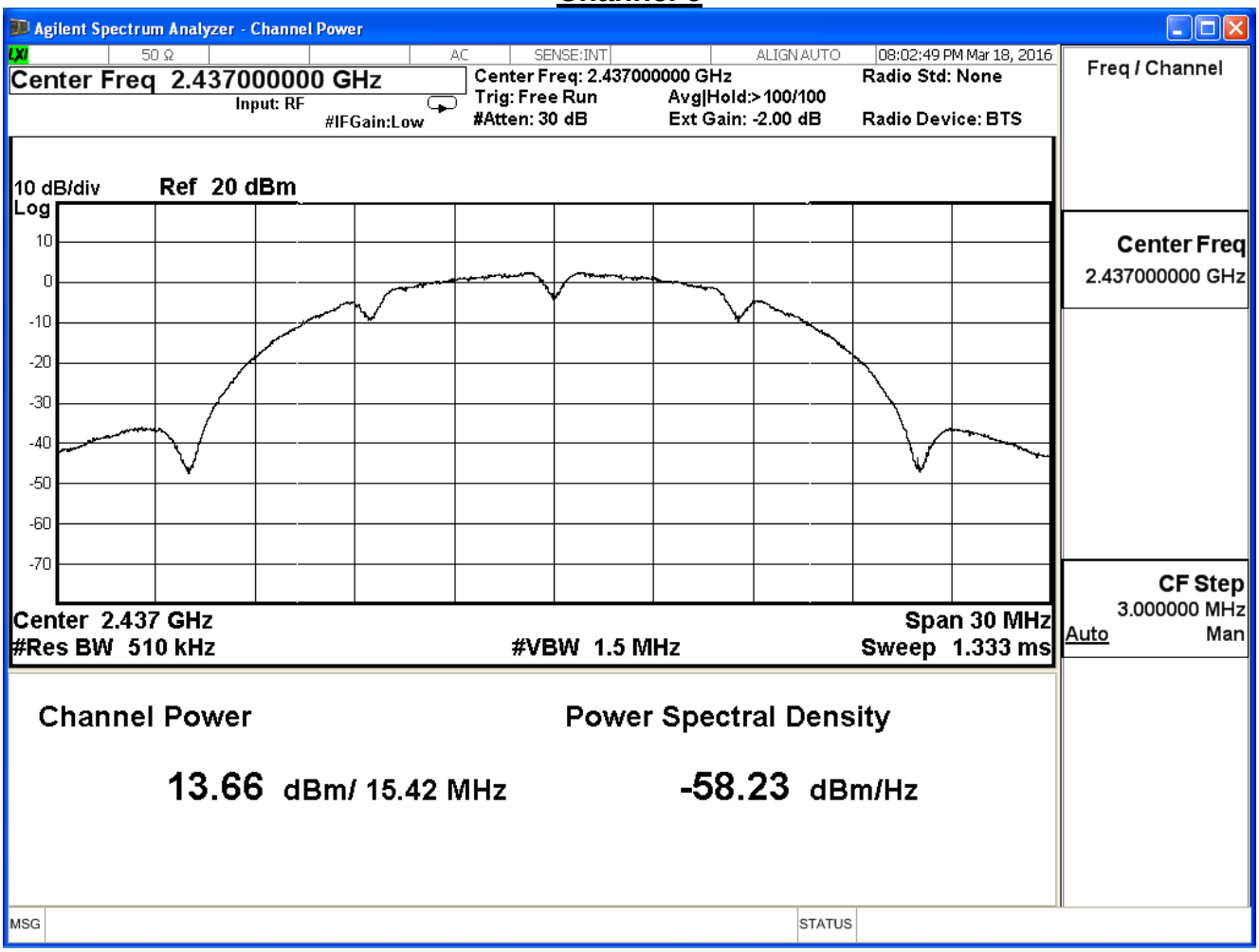
The worst emission of data rate is 1Mbps

Peak Power Output (dBm)						
Channel No	Frequency (MHz)	Data Rate (Mbps)				Required Limit
		1	2	5.5	11	
1	2412	13.63	--	--	--	≦30
6	2437	13.66	13.64	13.62	13.60	≦30
11	2462	13.42	--	--	--	≦30

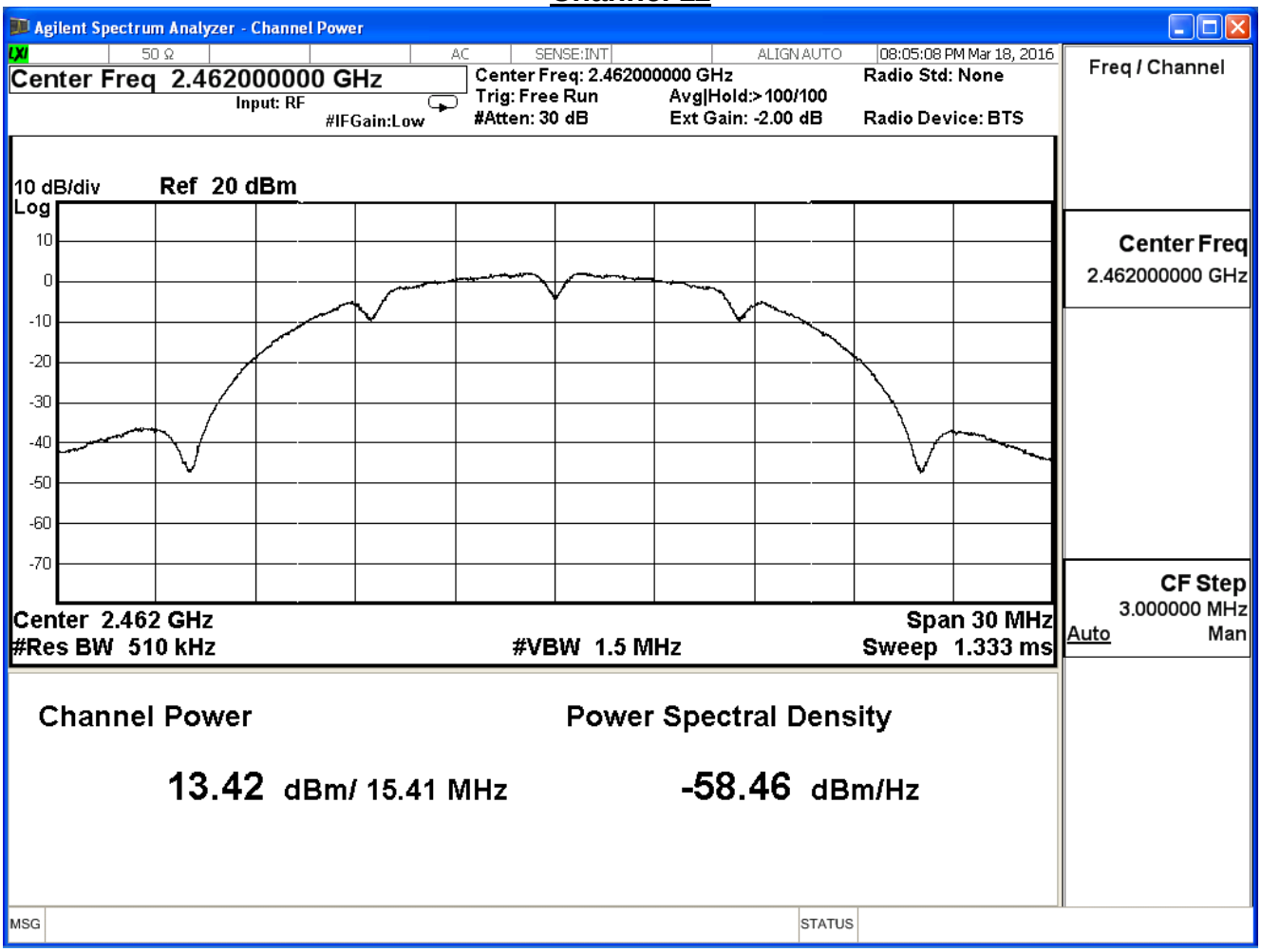
Channel 1


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:00:47 PM Mar 18, 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: -2.00 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 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
13.63 dBm/ 15.42 MHz
Power Spectral Density
-58.25 dBm/Hz
MSG
STATUS

Channel 6


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:02:49 PM Mar 18, 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: -2.00 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 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
13.66 dBm/ 15.42 MHz
Power Spectral Density
-58.23 dBm/Hz
MSG
STATUS

Channel 11


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:05:08 PM Mar 18, 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: -2.00 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 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
13.42 dBm/ 15.41 MHz
Power Spectral Density
-58.46 dBm/Hz
MSG
STATUS

Product	Dual band AC1900 USB 3.0 Wi-Fi Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_SISO Mode		
Date of Test	2016/03/18	Test Site	SR7

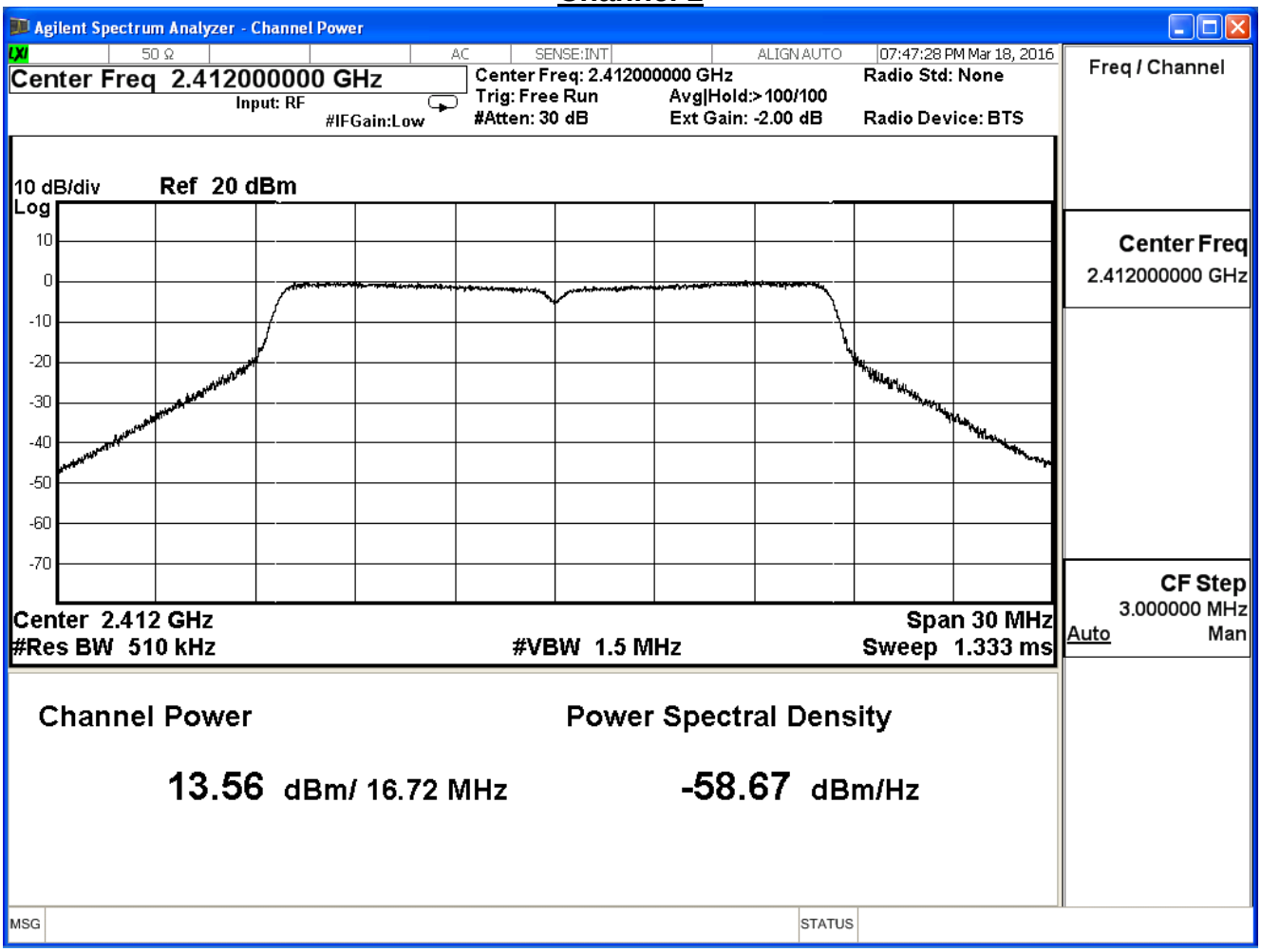
IEEE 802.11g (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	13.56	≦30
6	2437	13.62	≦30
11	2462	13.44	≦30

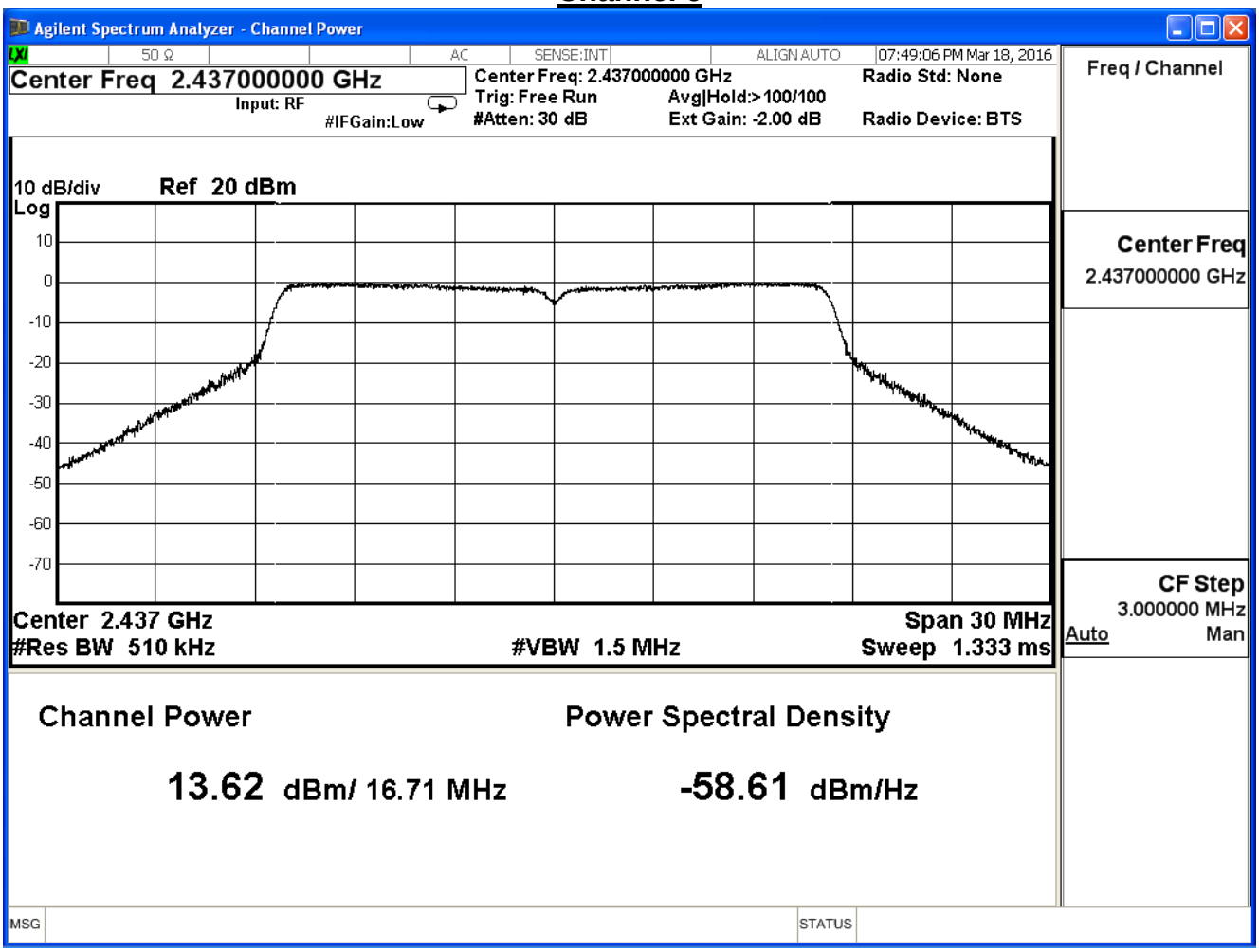
The worst emission of data rate is 6Mbps

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate (Mbps)							Required Limit
		6	12	18	24	36	48	54	
1	2412	13.56	--	--	--	--	--	--	≦30
6	2437	13.62	13.58	13.55	13.50	13.44	13.41	13.34	≦30
11	2462	13.44	--	--	--	--	--	--	≦30

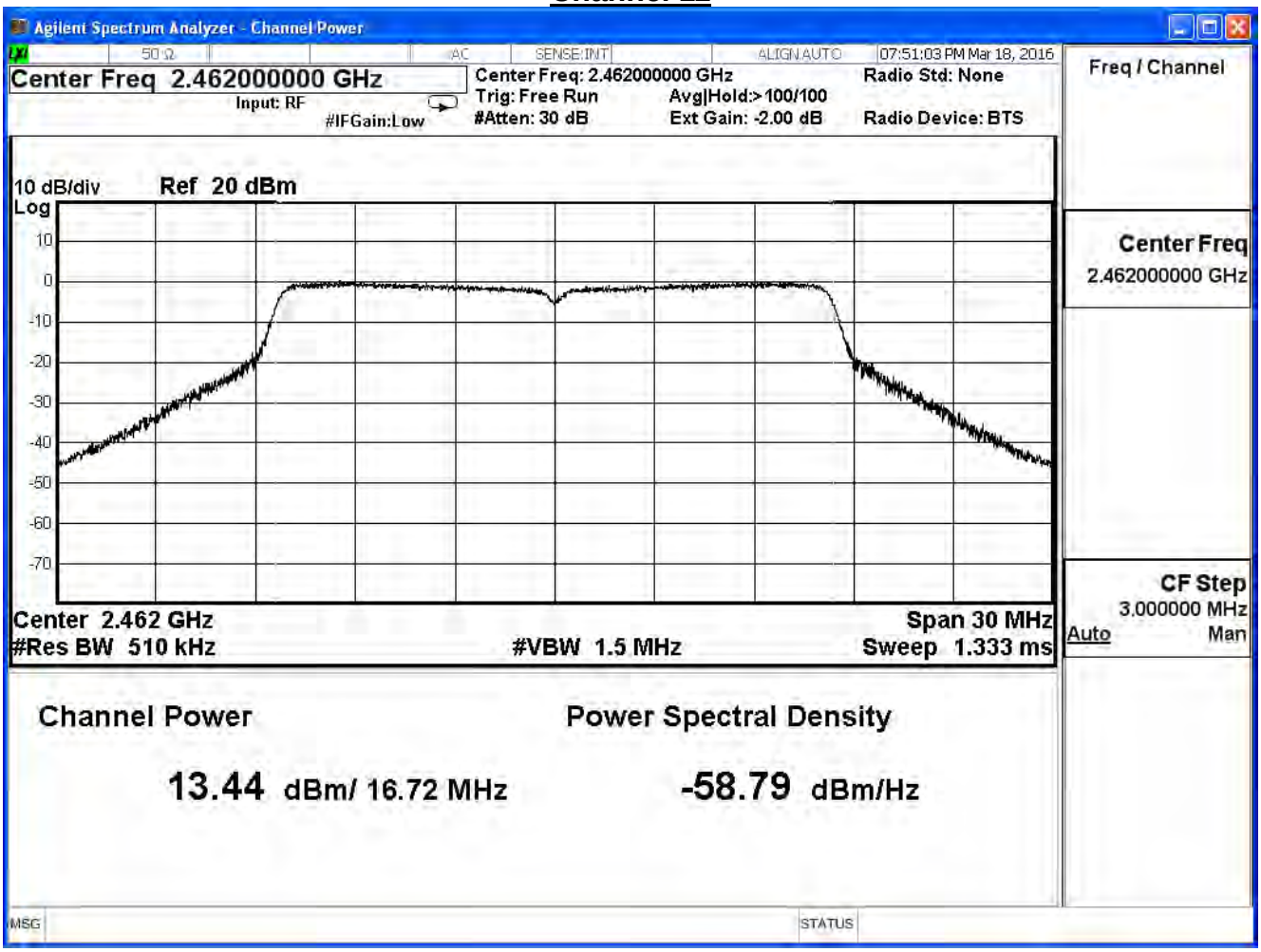
Channel 1


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:47:28 PM Mar 18, 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: -2.00 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 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
13.56 dBm/ 16.72 MHz
Power Spectral Density
-58.67 dBm/Hz
MSG
STATUS

Channel 6


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:49:06 PM Mar 18, 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: -2.00 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
CF Step
3.000000 MHz
Auto
Man
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
Channel Power
13.62 dBm/ 16.71 MHz
Power Spectral Density
-58.61 dBm/Hz
MSG
STATUS

Channel 11


Agilent Spectrum Analyzer - Channel Power
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: -2.00 dB
Radio Std: None
Radio Device: BTS
07:51:03 PM Mar 18, 2016
Freq / Channel
10 dB/div
Log
Ref 20 dBm
Center Freq
2.462000000 GHz
Center 2.462 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
13.44 dBm/ 16.72 MHz
Power Spectral Density
-58.79 dBm/Hz
MSG
STATUS

Product	Dual band AC1900 USB 3.0 Wi-Fi Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_SISO Mode		
Date of Test	2016/03/18	Test Site	SR7

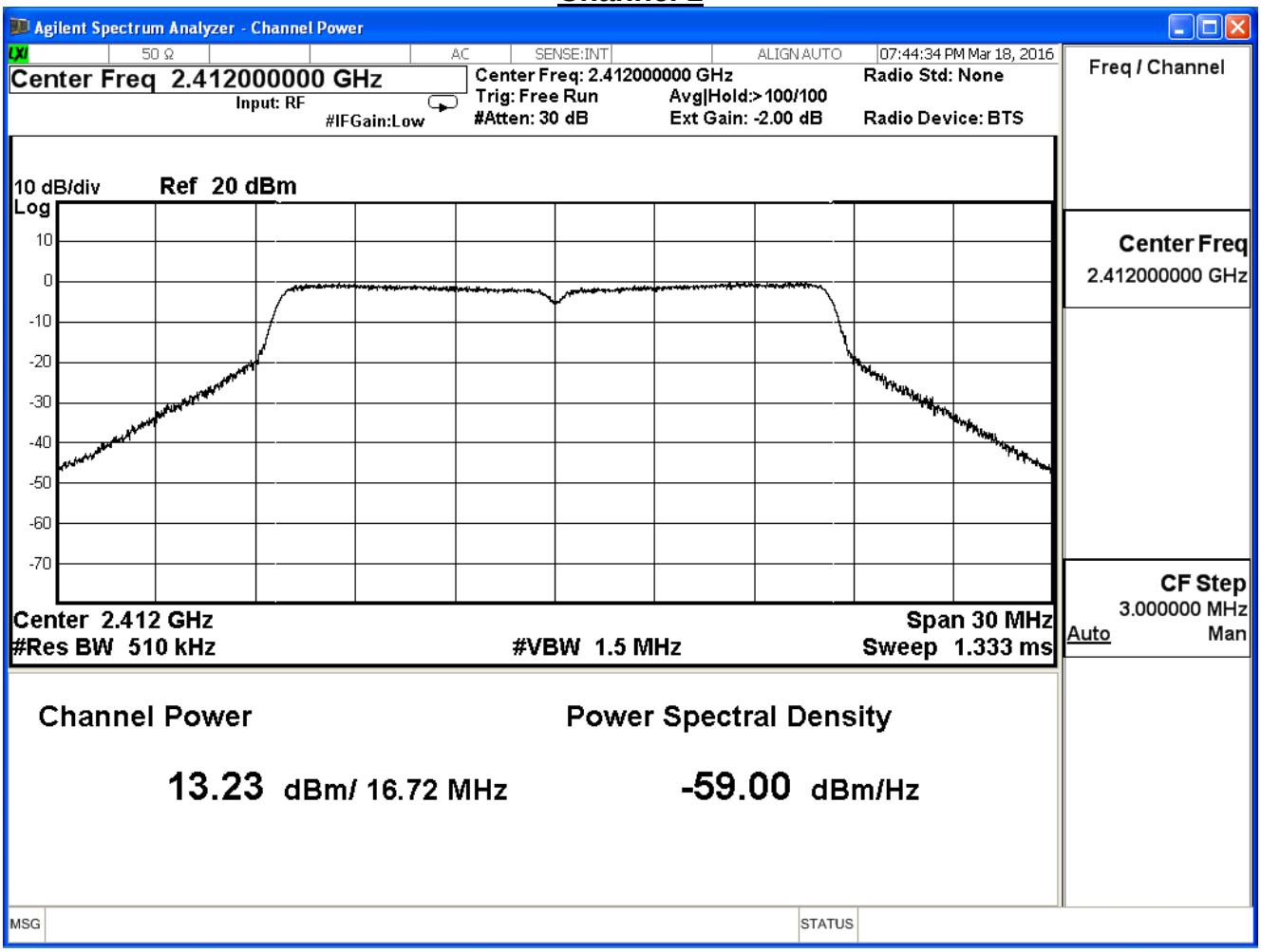
IEEE 802.11g (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	13.23	≦30
6	2437	13.75	≦30
11	2462	13.54	≦30

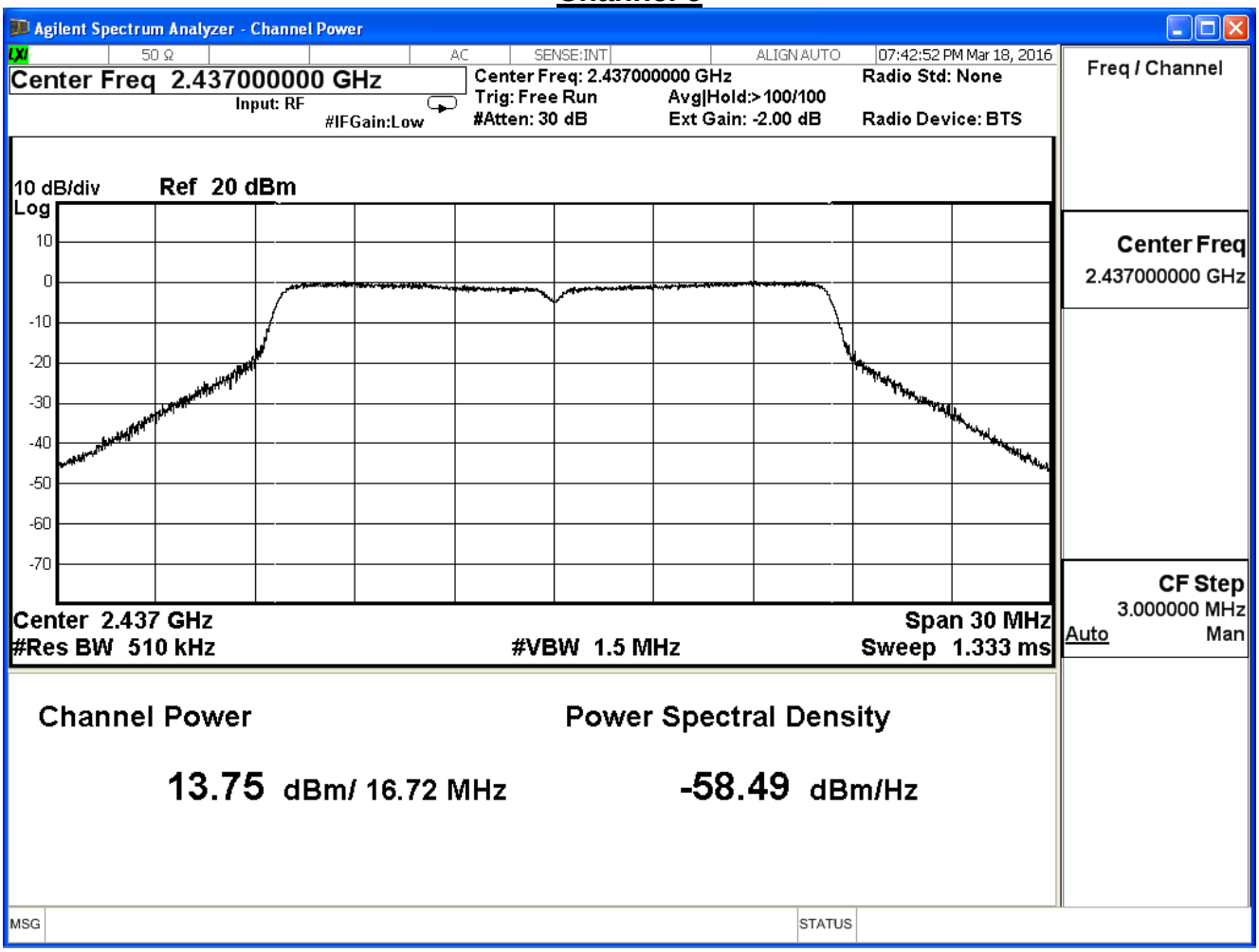
The worst emission of data rate is 6Mbps

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate (Mbps)							Required Limit
		6	12	18	24	36	48	54	
1	2412	13.23	--	--	--	--	--	--	≦30
6	2437	13.75	13.72	13.68	13.62	13.58	13.55	13.50	≦30
11	2462	13.54	--	--	--	--	--	--	≦30

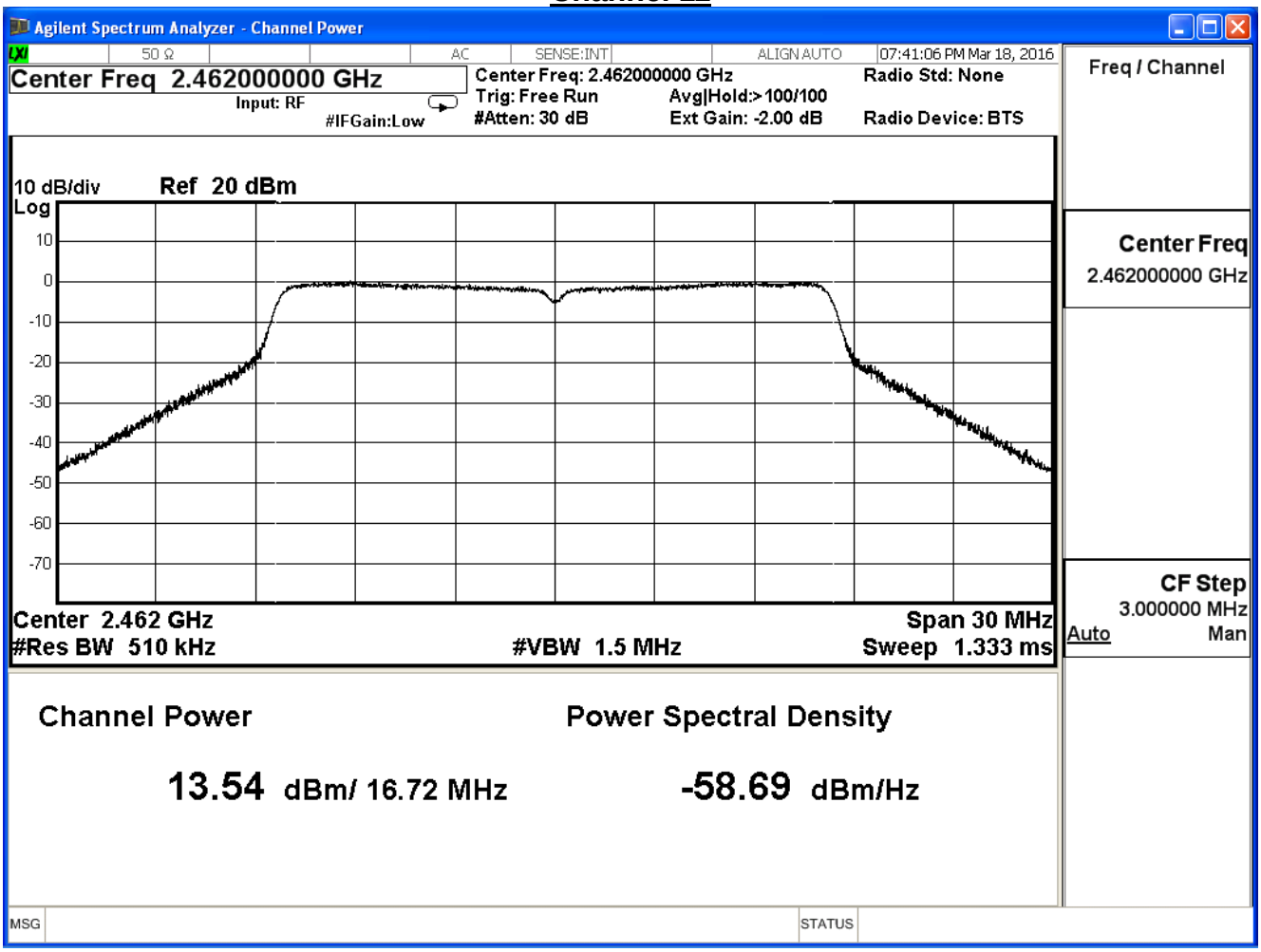
Channel 1


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:44:34 PM Mar 18, 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: -2.00 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 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
13.23 dBm/ 16.72 MHz
Power Spectral Density
-59.00 dBm/Hz
MSG
STATUS

Channel 6


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:42:52 PM Mar 18, 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: -2.00 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
CF Step
3.000000 MHz
Auto
Man
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
Channel Power
13.75 dBm/ 16.72 MHz
Power Spectral Density
-58.49 dBm/Hz
MSG
STATUS

Channel 11


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:41:06 PM Mar 18, 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: -2.00 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 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
13.54 dBm/ 16.72 MHz
Power Spectral Density
-58.69 dBm/Hz
MSG
STATUS

Product	Dual band AC1900 USB 3.0 Wi-Fi Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 1: Transmit_SISO Mode		
Date of Test	2016/03/18	Test Site	SR7

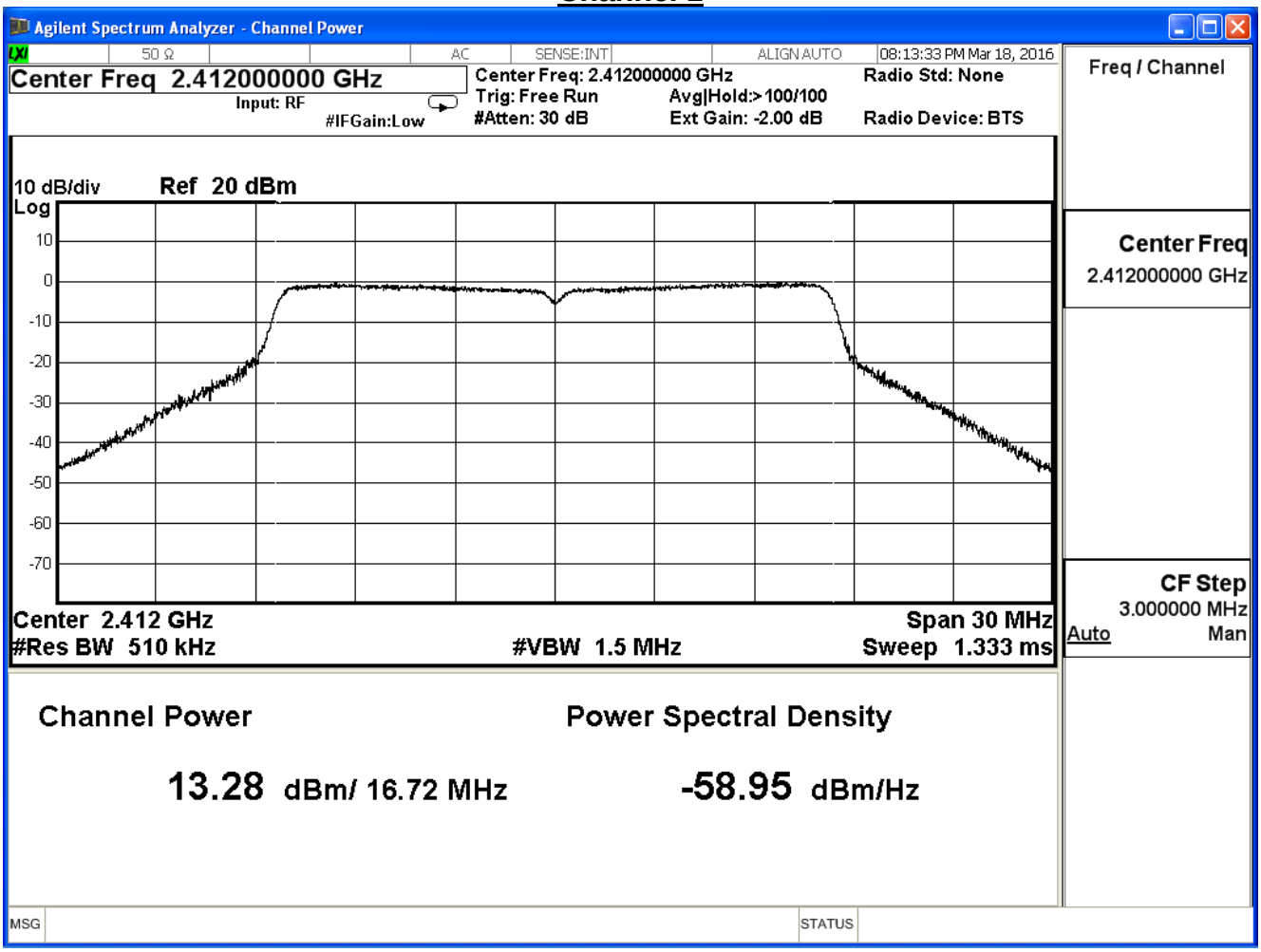
IEEE 802.11g (ANT 2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	13.28	≦30
6	2437	13.61	≦30
11	2462	13.73	≦30

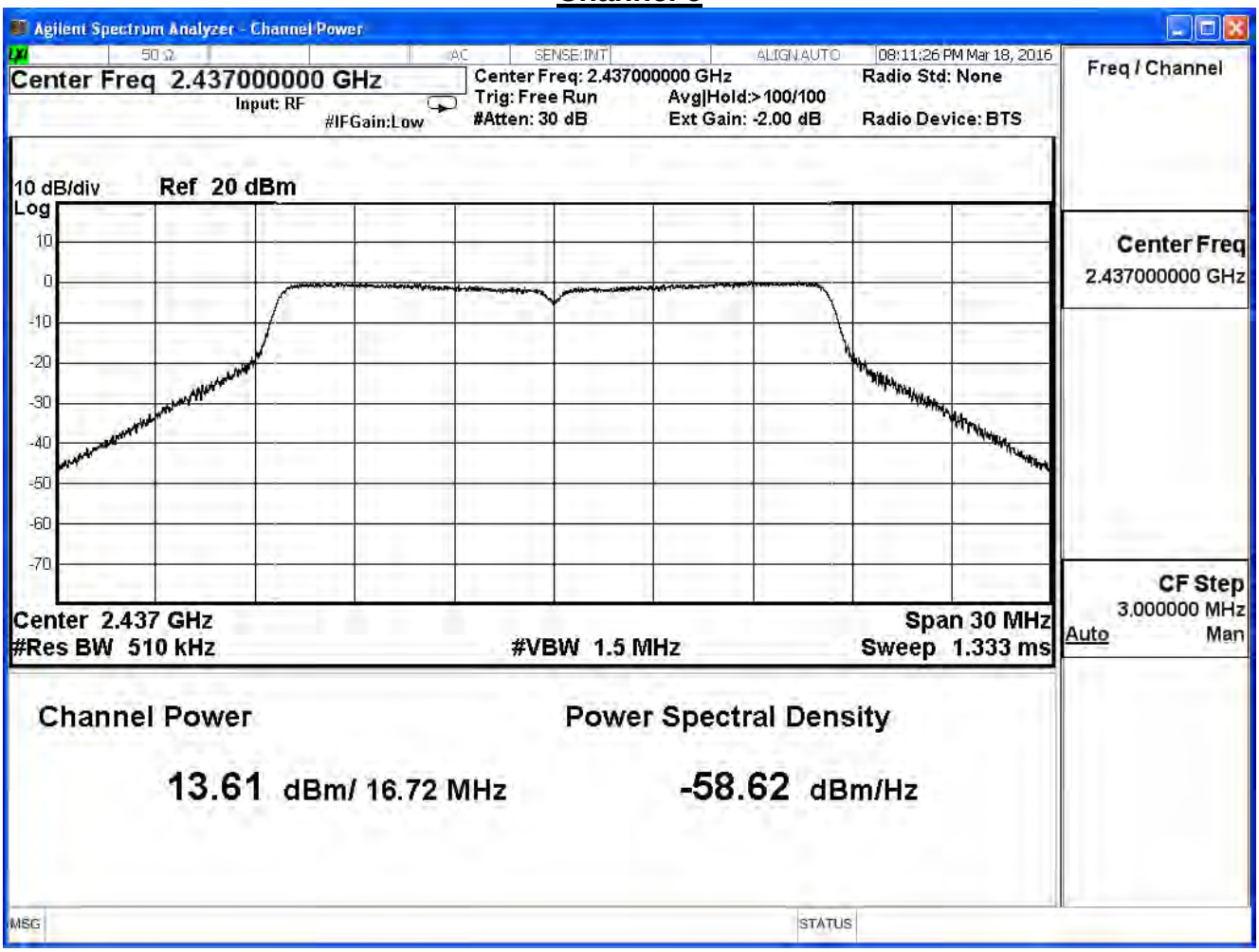
The worst emission of data rate is 6Mbps

Peak Power Output (dBm)									
Channel No	Frequency (MHz)	Data Rate (Mbps)							Required Limit
		6	12	18	24	36	48	54	
1	2412	13.28	--	--	--	--	--	--	≦30
6	2437	13.61	13.58	13.55	13.51	13.47	13.44	13.38	≦30
11	2462	13.73	--	--	--	--	--	--	≦30

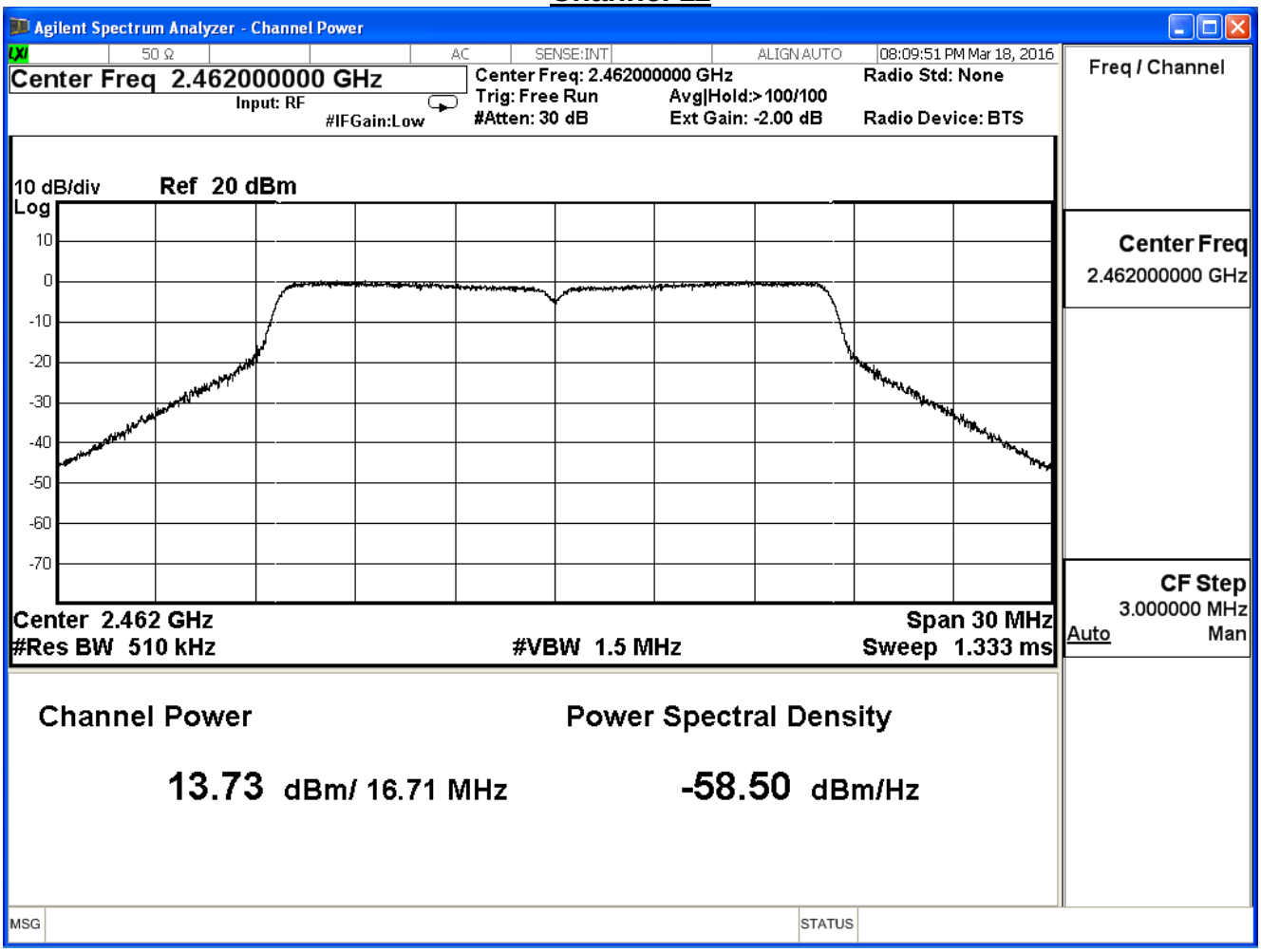
Channel 1


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:13:33 PM Mar 18, 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: -2.00 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 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
13.28 dBm/ 16.72 MHz
Power Spectral Density
-58.95 dBm/Hz
MSG
STATUS

Channel 6


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:11:26 PM Mar 18, 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: -2.00 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 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
13.61 dBm/ 16.72 MHz
Power Spectral Density
-58.62 dBm/Hz
MSG
STATUS

Channel 11


Agilent Spectrum Analyzer - Channel Power
50 Ω
AC
SENSE:INT
ALIGN AUTO
08:09:51 PM Mar 18, 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: -2.00 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 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
13.73 dBm/ 16.71 MHz
Power Spectral Density
-58.50 dBm/Hz
MSG
STATUS

Product	Dual band AC1900 USB 3.0 Wi-Fi Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2015/12/10	Test Site	SR7

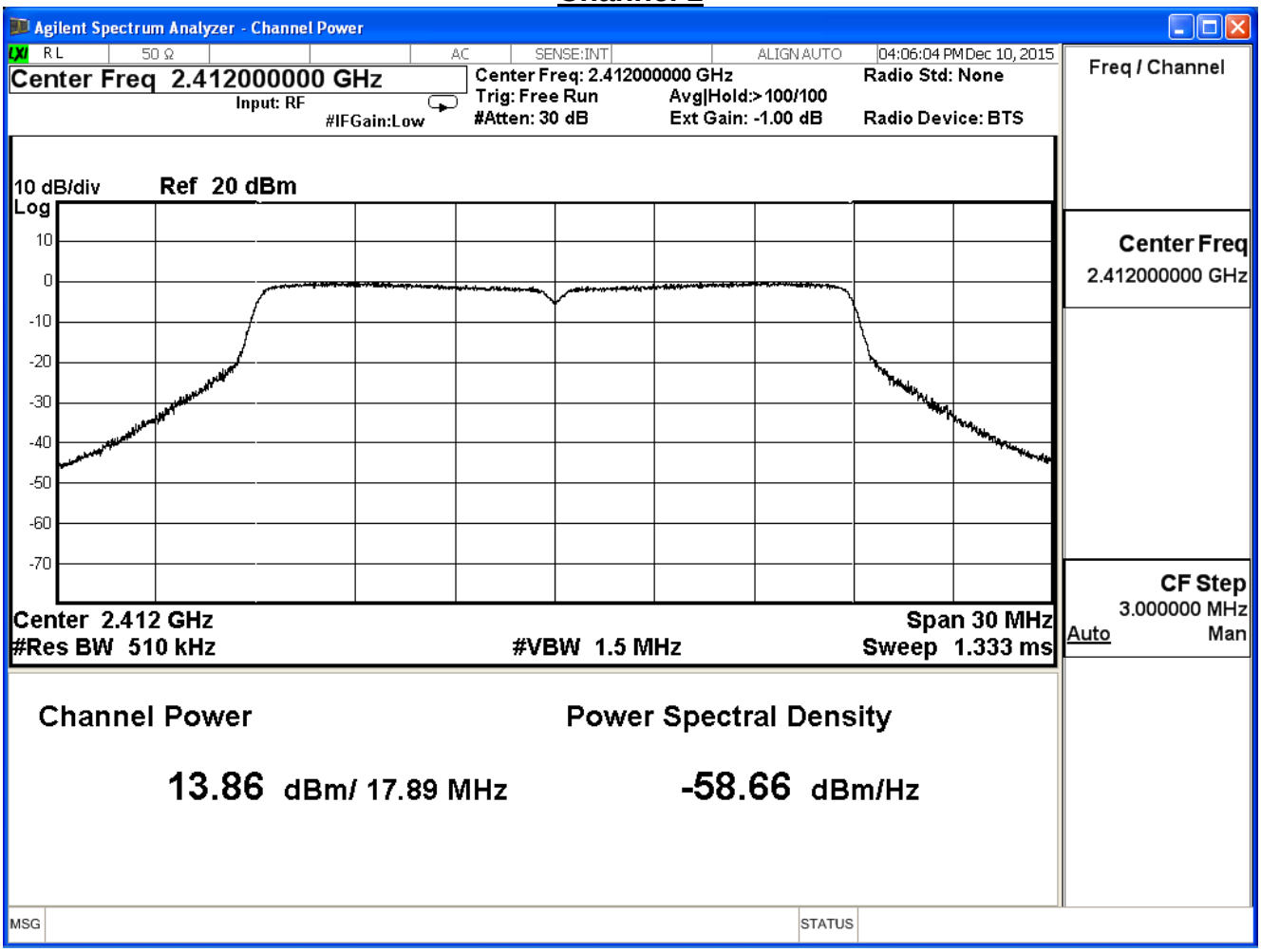
EEE 802.11n_20M (ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	13.86	≦30
6	2437	13.92	≦30
11	2462	13.88	≦30

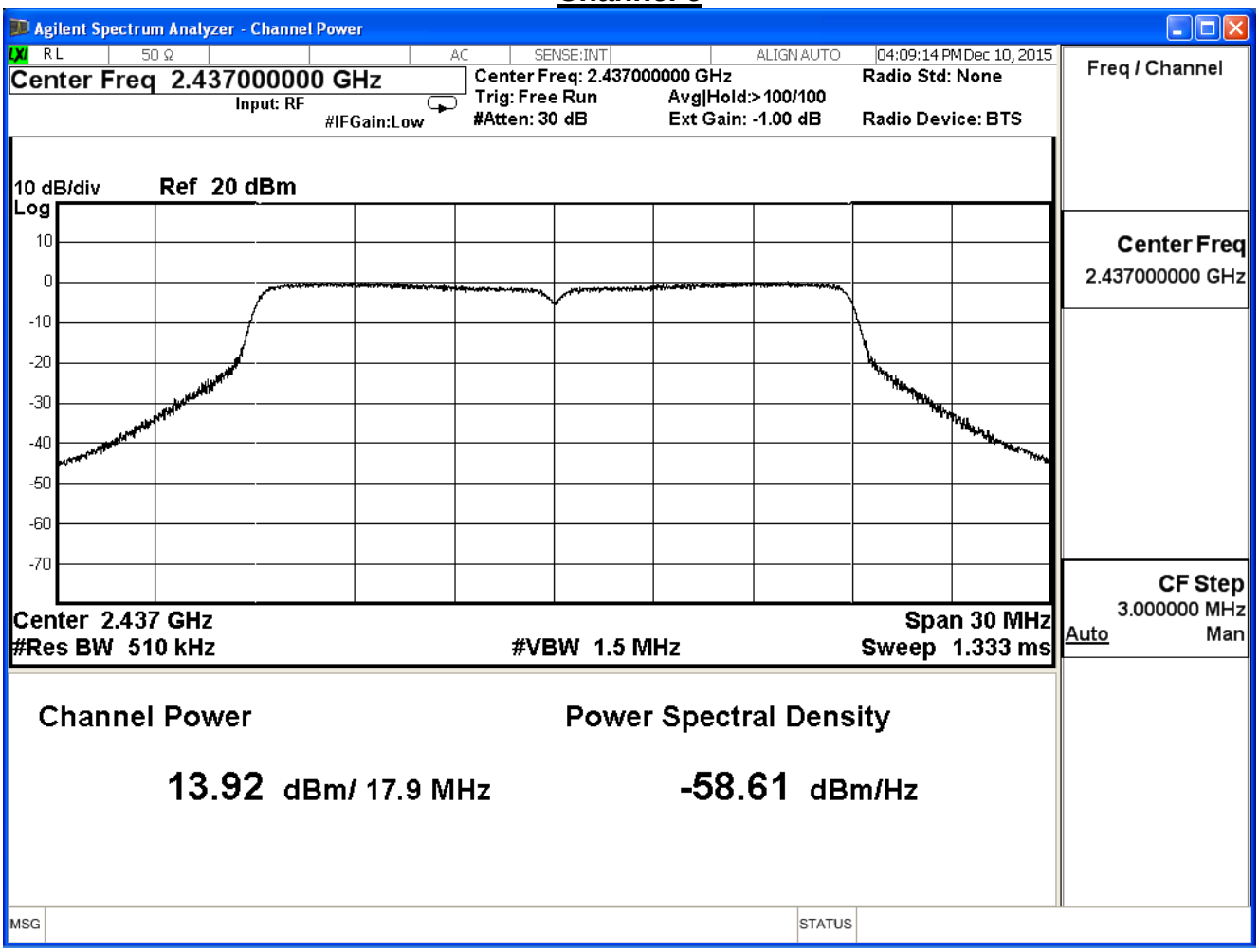
The worst emission of data rate is 19.5Mbps

Peak Power Output (dBm)										
MCS Index		16	17	18	19	20	21	22	23	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		19.5	39	58.5	78	117	156	175.5	195	
1	2412	13.86	--	--	--	--	--	--	--	≦30
6	2437	13.92	13.68	13.58	13.47	13.34	13.22	13.10	12.88	≦30
11	2462	13.88	--	--	--	--	--	--	--	≦30

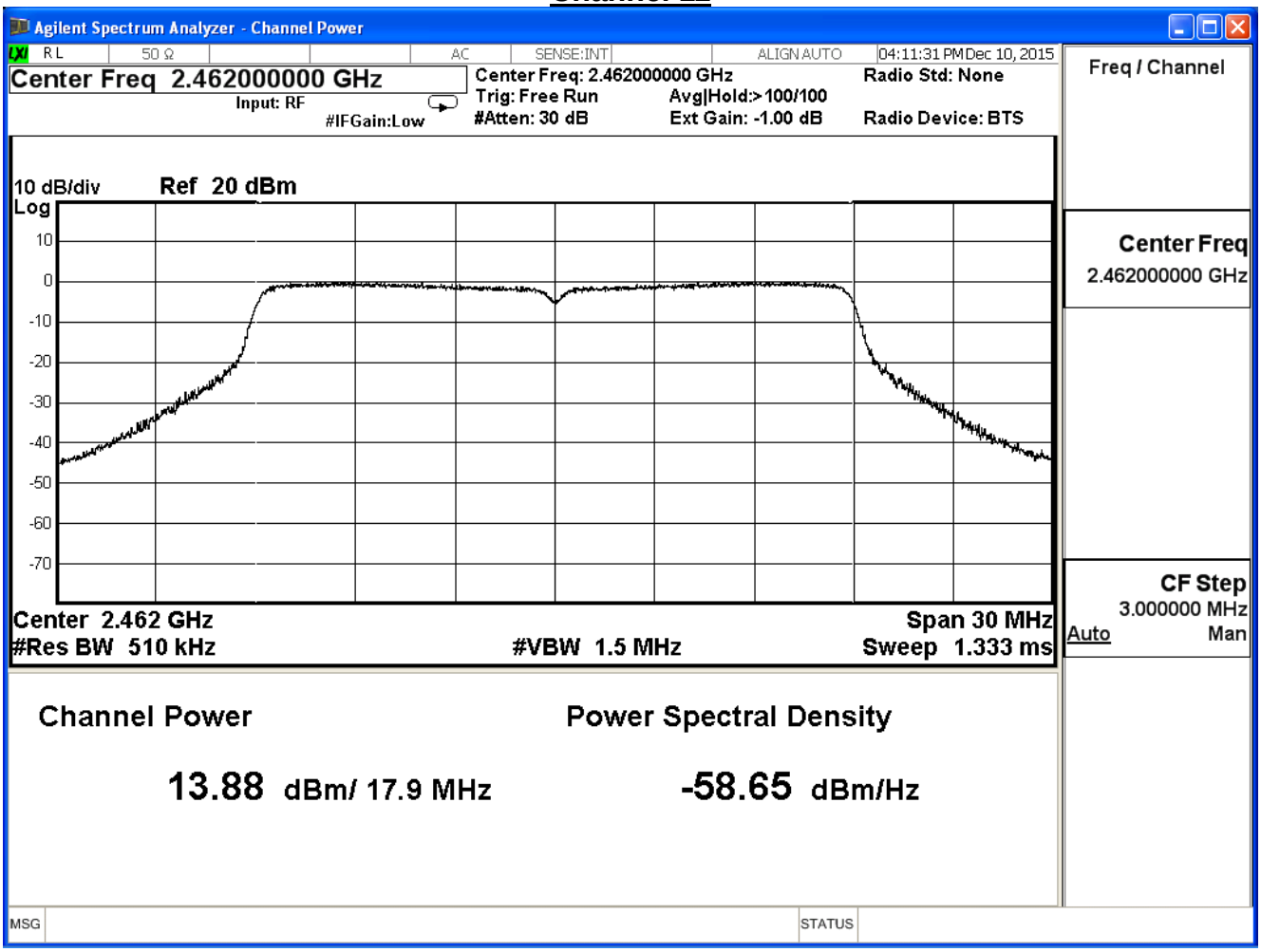
Channel 1


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:06:04 PM Dec 10, 2015
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: -1.00 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 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
13.86 dBm/ 17.89 MHz
Power Spectral Density
-58.66 dBm/Hz
MSG
STATUS

Channel 6


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:09:14 PM Dec 10, 2015
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: -1.00 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 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
13.92 dBm/ 17.9 MHz
Power Spectral Density
-58.61 dBm/Hz
MSG
STATUS

Channel 11


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:11:31 PM Dec 10, 2015
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: -1.00 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 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
13.88 dBm/ 17.9 MHz
Power Spectral Density
-58.65 dBm/Hz
MSG
STATUS

Product	Dual band AC1900 USB 3.0 Wi-Fi Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2015/12/10	Test Site	SR7

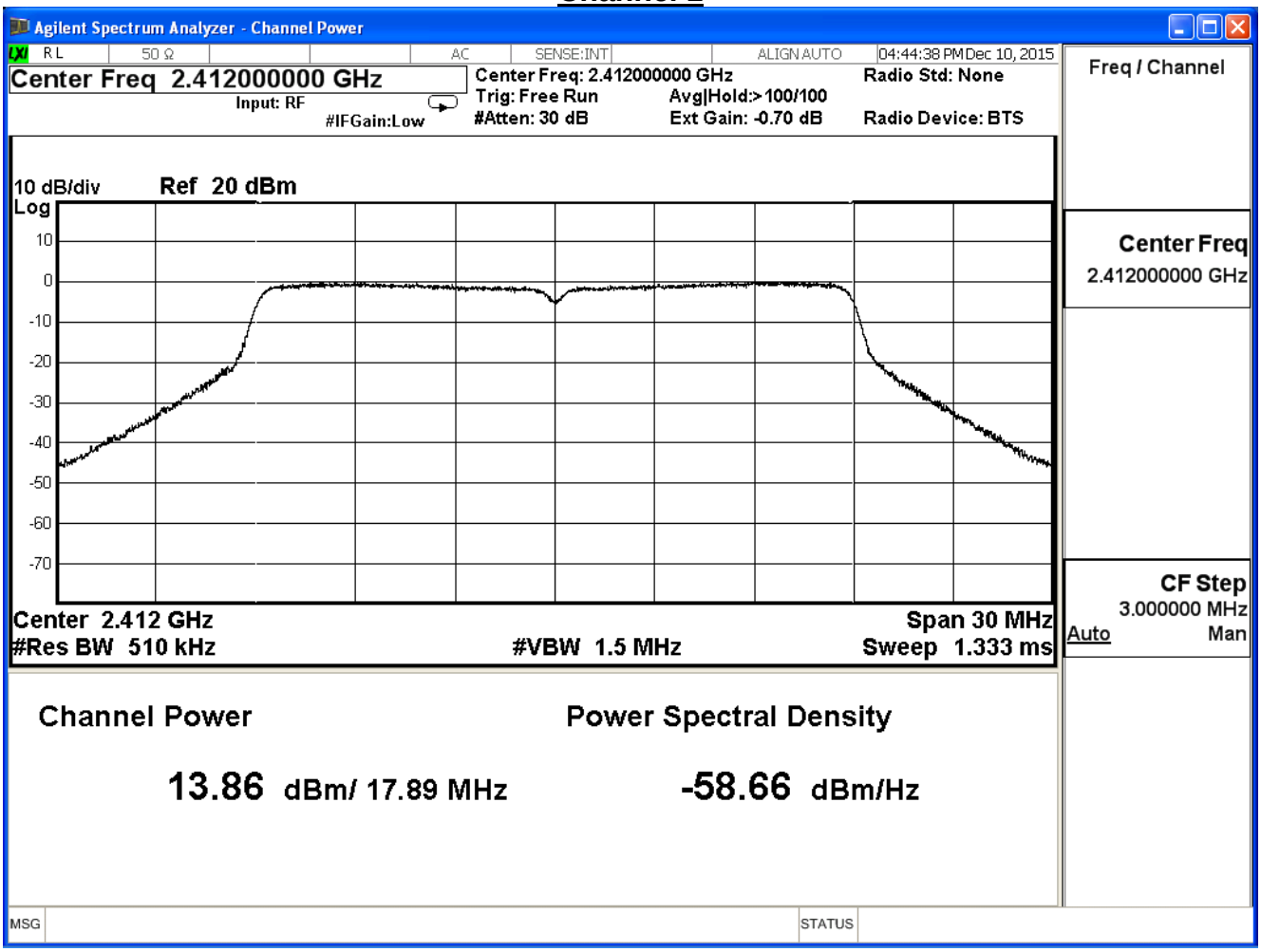
IEEE 802.11n_20M (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	13.86	≦30
6	2437	13.61	≦30
11	2462	13.93	≦30

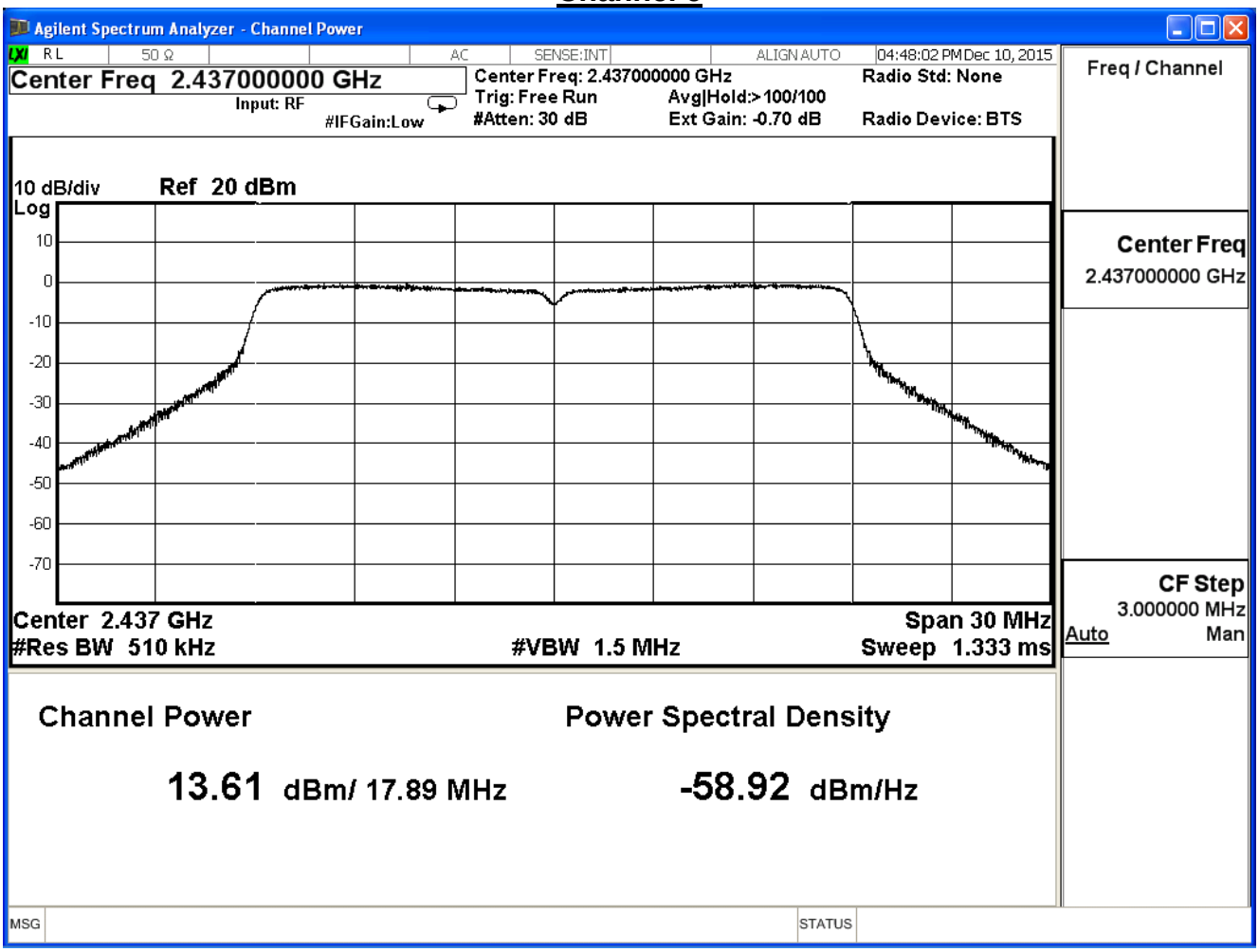
The worst emission of data rate is 19.5Mbps

Peak Power Output (dBm)										
MCS Index		16	17	18	19	20	21	22	23	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		19.5	39	58.5	78	117	156	175.5	195	
1	2412	13.86	--	--	--	--	--	--	--	≦30
6	2437	13.61	13.51	13.39	13.29	13.17	13.05	12.81	12.68	≦30
11	2462	13.93	--	--	--	--	--	--	--	≦30

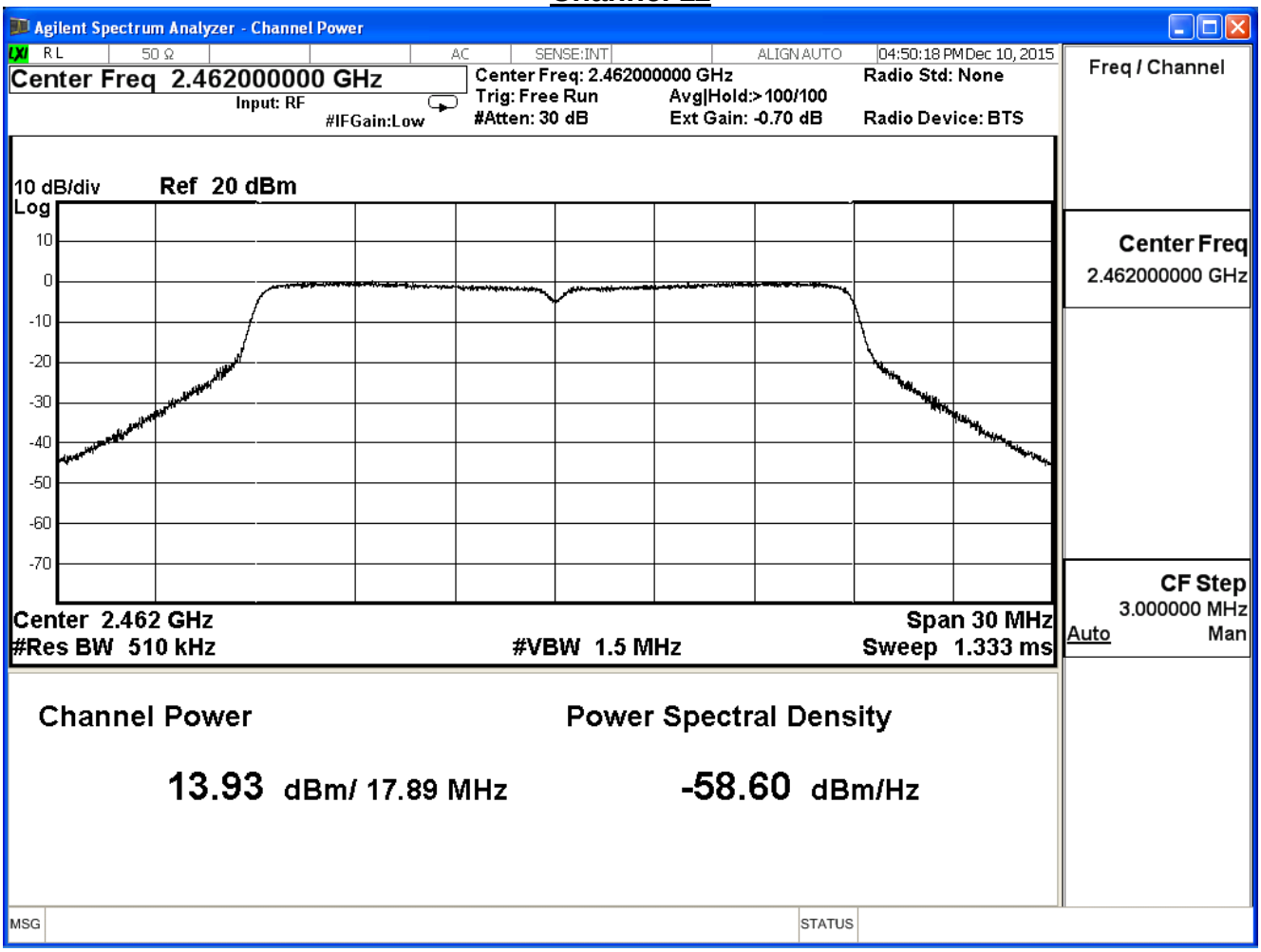
Channel 1


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:44:38 PM Dec 10, 2015
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: -0.70 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 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
13.86 dBm/ 17.89 MHz
Power Spectral Density
-58.66 dBm/Hz
MSG
STATUS

Channel 6


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:48:02 PM Dec 10, 2015
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: -0.70 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 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
13.61 dBm/ 17.89 MHz
Power Spectral Density
-58.92 dBm/Hz
MSG
STATUS

Channel 11


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:50:18 PM Dec 10, 2015
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: -0.70 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 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
13.93 dBm/ 17.89 MHz
Power Spectral Density
-58.60 dBm/Hz
MSG
STATUS

Product	Dual band AC1900 USB 3.0 Wi-Fi Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2015/12/10	Test Site	SR7

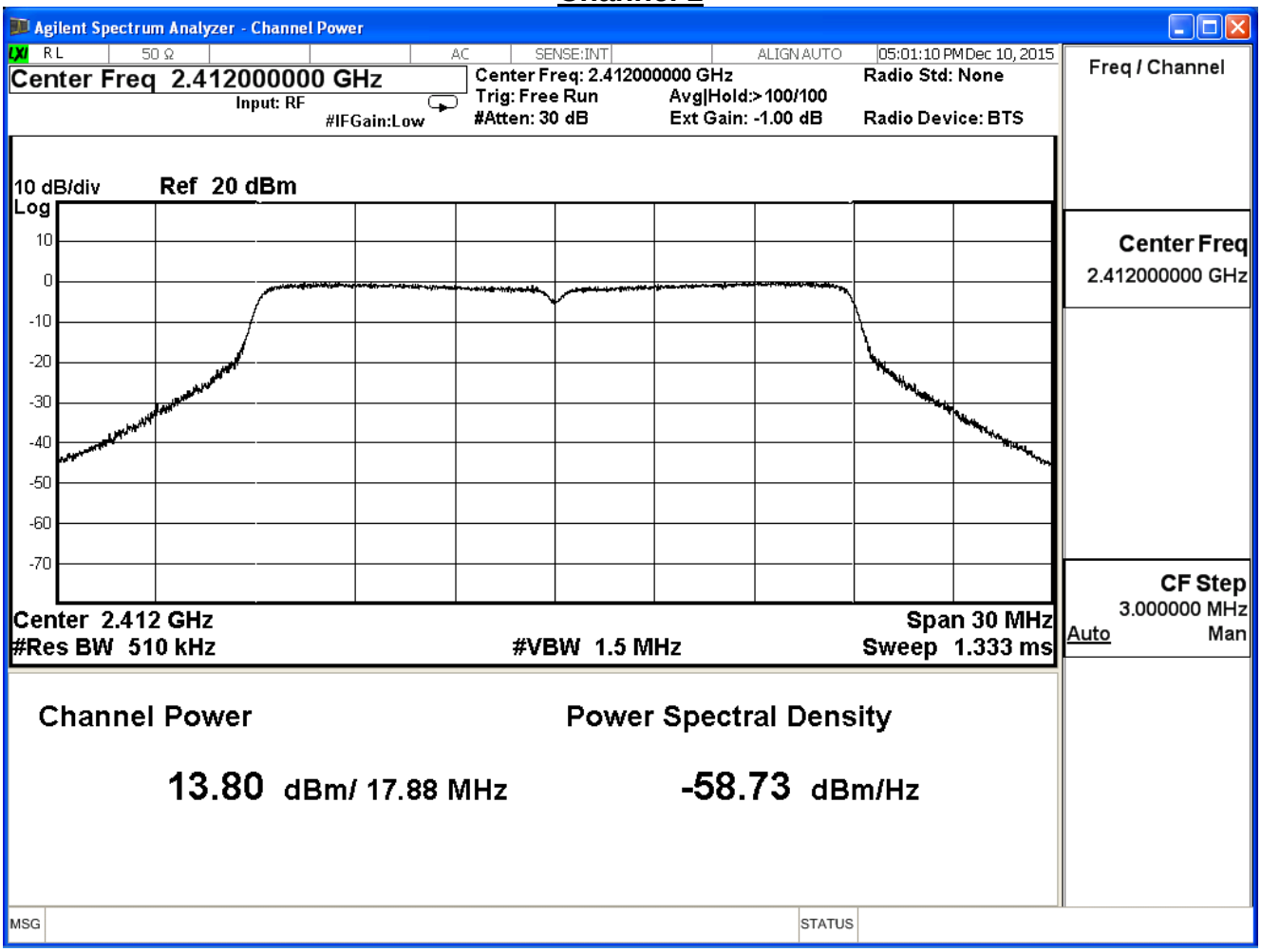
IEEE 802.11n_20M (ANT 2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	13.80	≦30
6	2437	13.82	≦30
11	2462	13.86	≦30

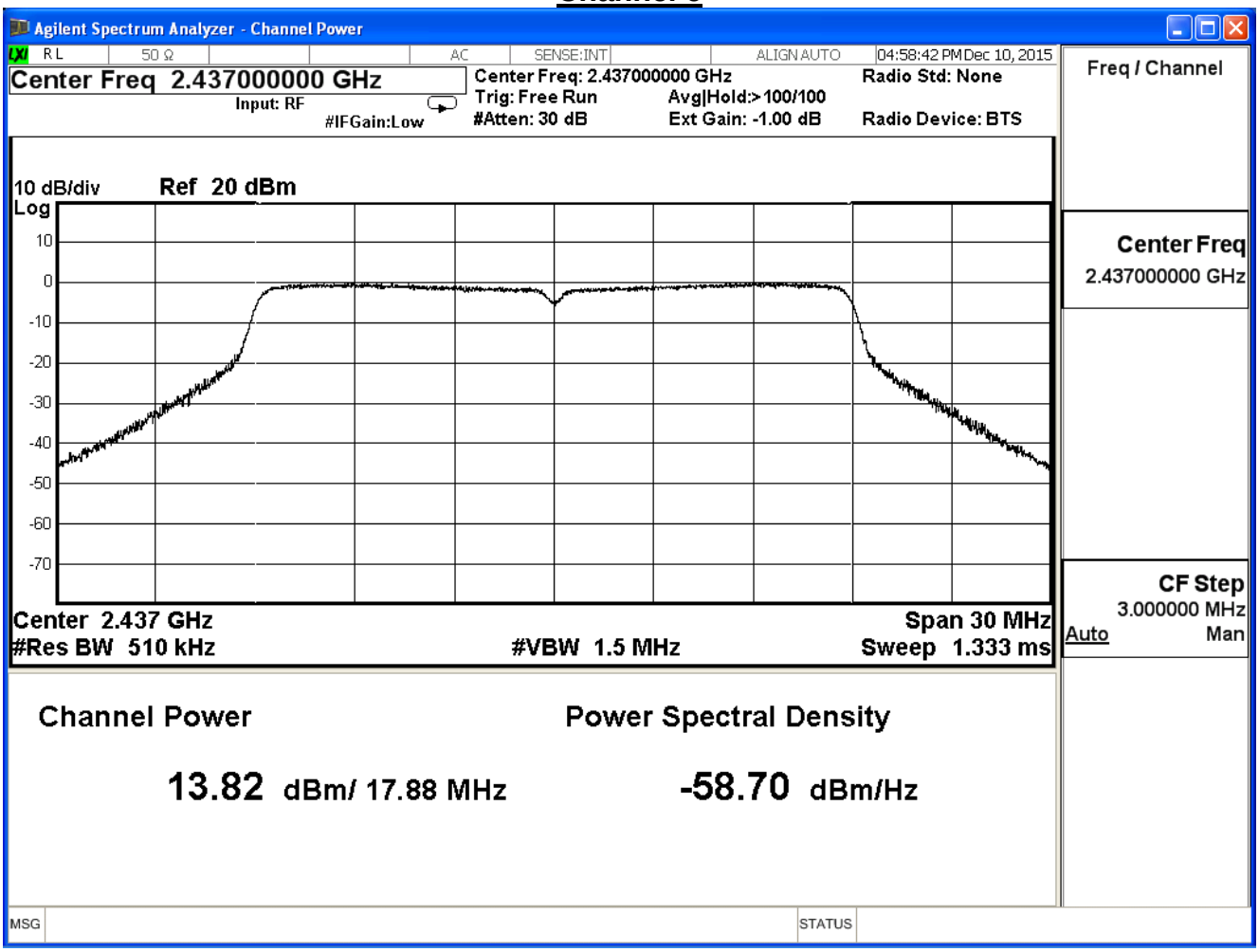
The worst emission of data rate is 19.5Mbps

Peak Power Output (dBm)										
MCS Index		16	17	18	19	20	21	22	23	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		19.5	39	58.5	78	117	156	175.5	195	
1	2412	13.80	--	--	--	--	--	--	--	≦30
6	2437	13.82	13.72	13.59	13.39	13.13	12.89	12.77	12.65	≦30
11	2462	13.86	--	--	--	--	--	--	--	≦30

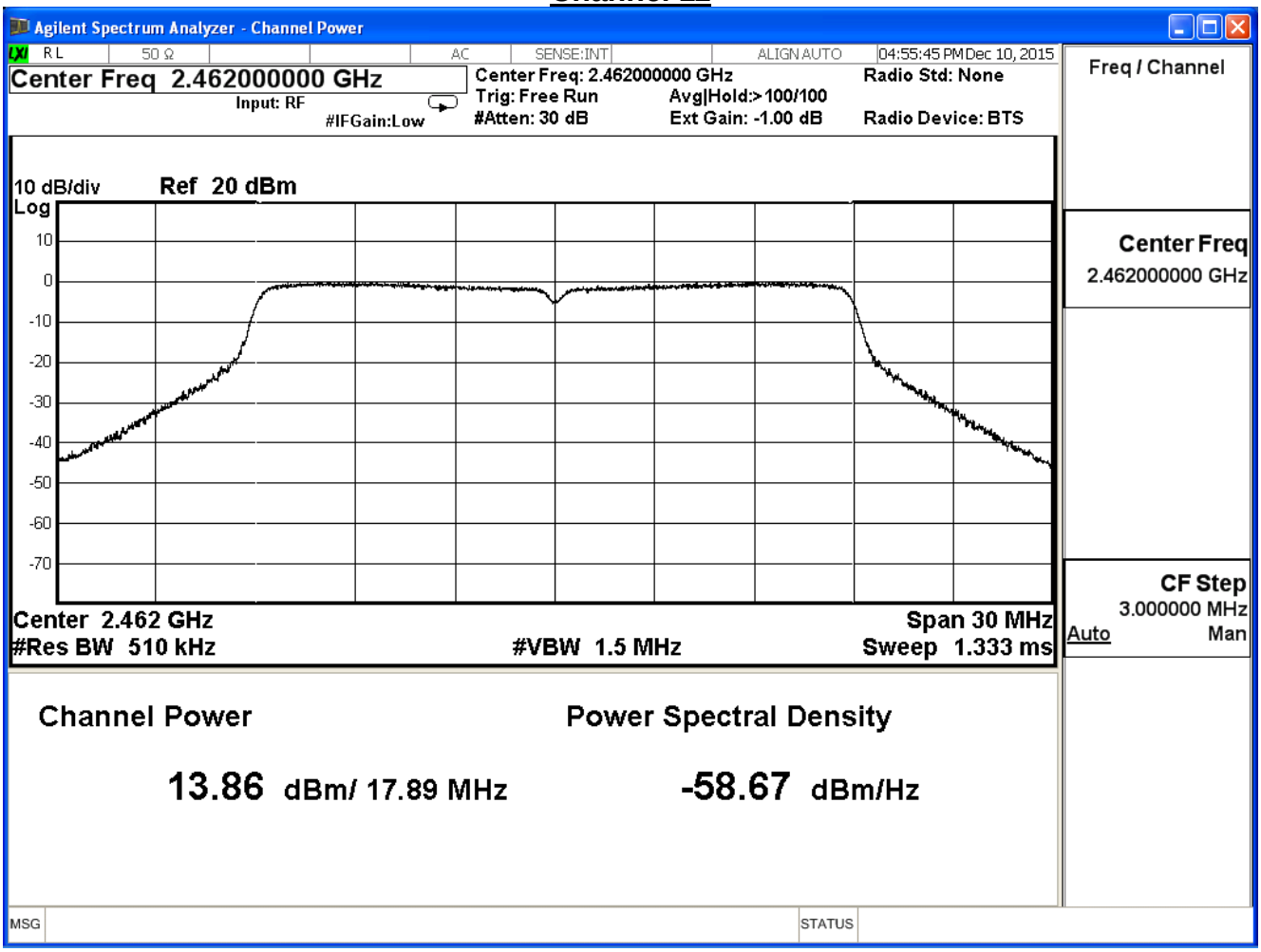
Channel 1


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
05:01:10 PM Dec 10, 2015
Center Freq 2.412000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.412000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -1.00 dB
Radio Std: None
Radio Device: BTS
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 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
13.80 dBm/ 17.88 MHz
Power Spectral Density
-58.73 dBm/Hz
MSG
STATUS

Channel 6


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:58:42 PM Dec 10, 2015
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: -1.00 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 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
13.82 dBm/ 17.88 MHz
Power Spectral Density
-58.70 dBm/Hz
MSG
STATUS

Channel 11


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:55:45 PM Dec 10, 2015
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: -1.00 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 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
13.86 dBm/ 17.89 MHz
Power Spectral Density
-58.67 dBm/Hz
MSG
STATUS

Product	Dual band AC1900 USB 3.0 Wi-Fi Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2015/12/10	Test Site	SR7

IEEE 802.11n_20M (ANT 0+1+2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	18.61	≦30
6	2437	18.56	≦30
11	2462	18.66	≦30

The worst emission of data rate is 19.5Mbps

Peak Power Output (dBm)										
MCS Index		16	17	18	19	20	21	22	23	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		19.5	39	58.5	78	117	156	175.5	195	
1	2412	18.61	--	--	--	--	--	--	--	≦30
6	2437	18.56	18.41	18.29	18.16	17.99	17.83	17.67	17.51	≦30
11	2462	18.66	--	--	--	--	--	--	--	≦30

Product	Dual band AC1900 USB 3.0 Wi-Fi Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2015/12/10	Test Site	SR7

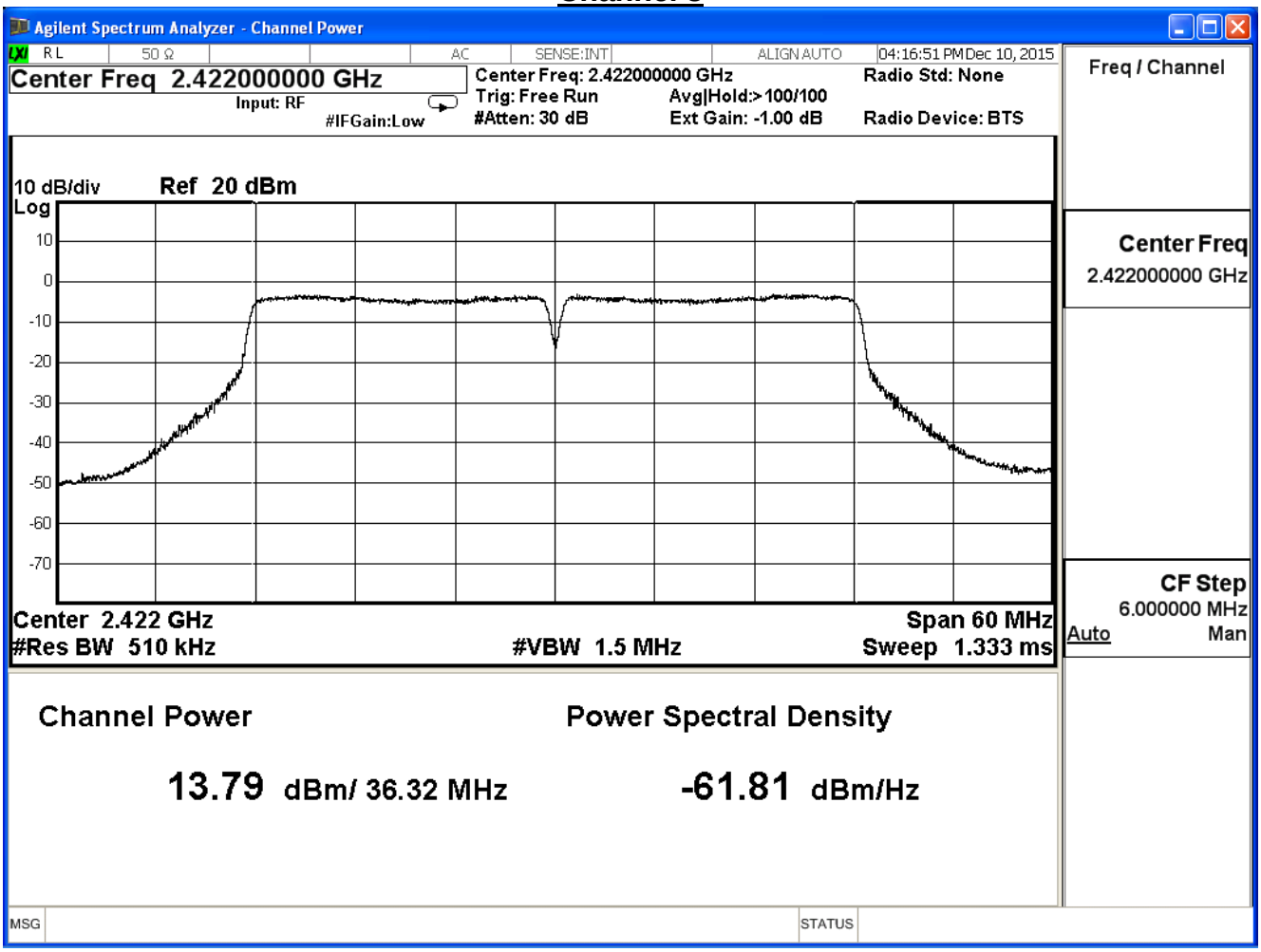
IEEE 802.11n_40M(ANT 0)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	13.79	≦30
6	2437	13.80	≦30
9	2452	13.88	≦30

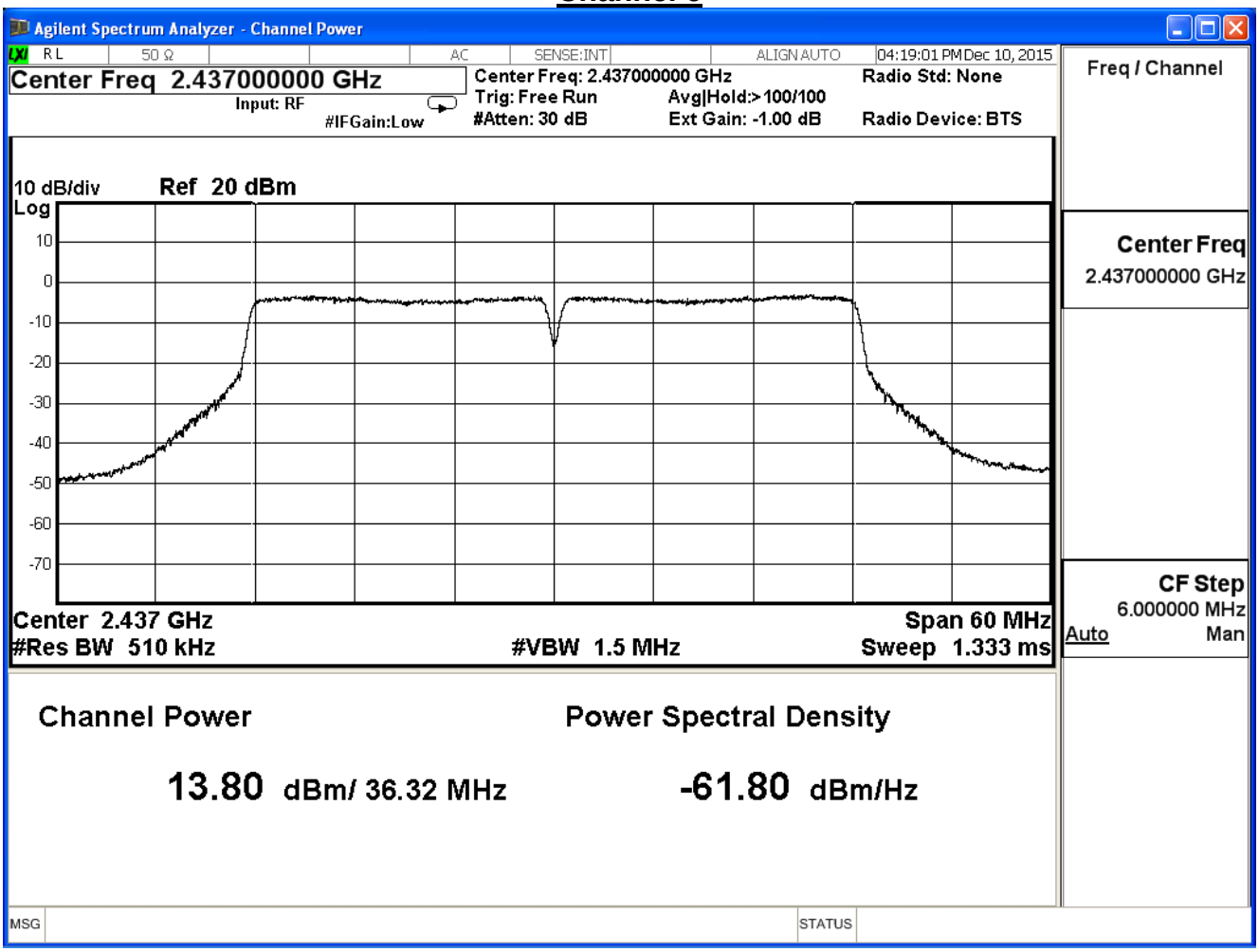
The worst emission of data rate is 40.5 Mbps.

Peak Power Output (dBm)										
MCS Index		16	17	18	19	20	21	22	23	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		40.5	81.0	121.5	162.0	243.0	324.0	364.5	405.0	
3	2422	13.79	--	--	--	--	--	--	--	≦30
6	2437	13.80	13.60	13.38	13.28	13.18	13.06	12.93	12.69	≦30
9	2452	13.88	--	--	--	--	--	--	--	≦30

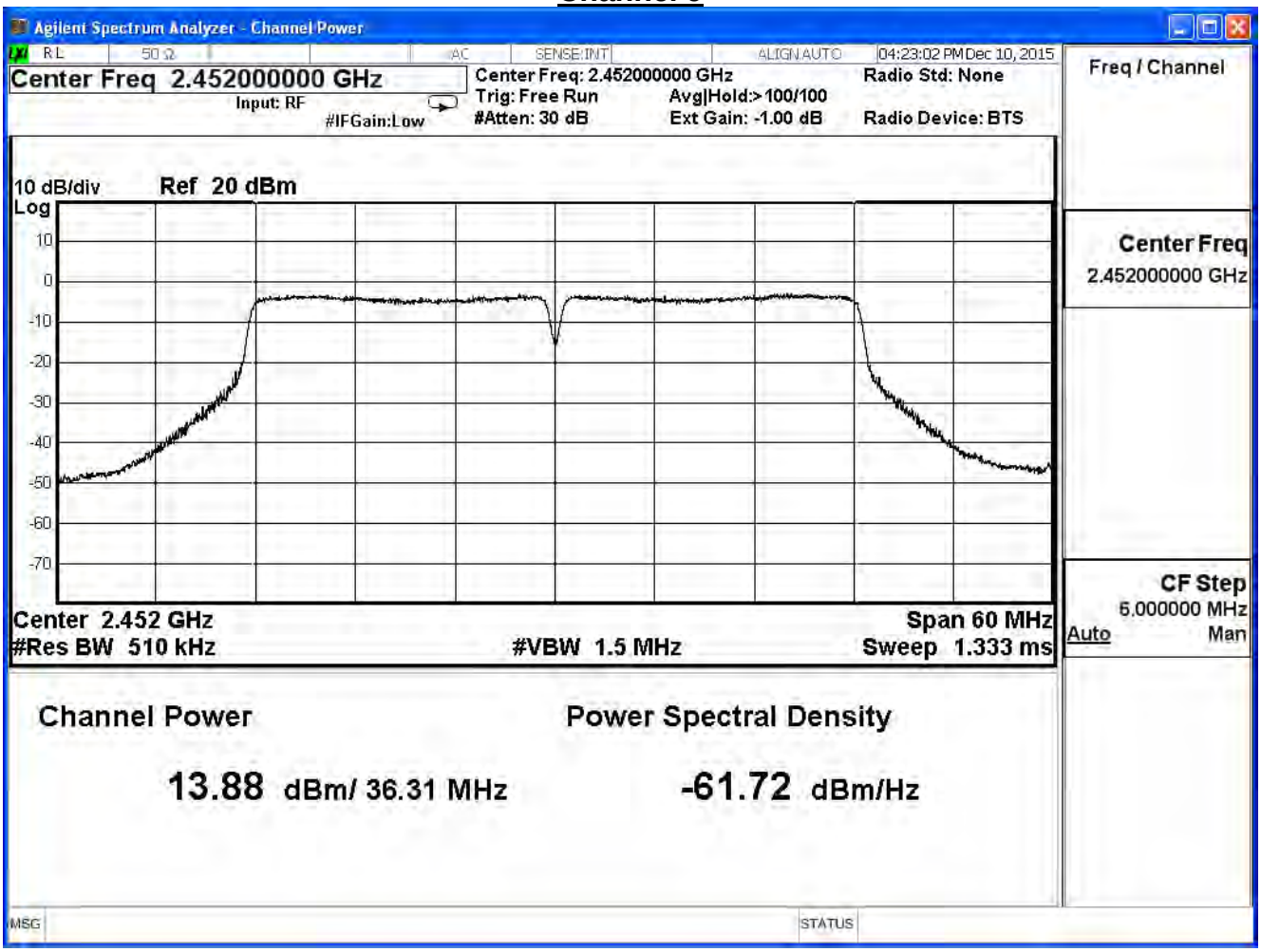
Channel 3


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:16:51 PM Dec 10, 2015
Center Freq 2.422000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.422000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -1.00 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
2.422000000 GHz
Center 2.422 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1.333 ms
CF Step
6.000000 MHz
Auto
Man
Channel Power
13.79 dBm/ 36.32 MHz
Power Spectral Density
-61.81 dBm/Hz
MSG
STATUS

Channel 6


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:19:01 PM Dec 10, 2015
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: -1.00 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
CF Step
6.000000 MHz
Auto
Man
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1.333 ms
Channel Power
13.80 dBm/ 36.32 MHz
Power Spectral Density
-61.80 dBm/Hz
MSG
STATUS

Channel 9


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:23:02 PM Dec 10, 2015
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: -1.00 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
2.452000000 GHz
CF Step
5.000000 MHz
Auto
Man
Center 2.452 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1.333 ms
Channel Power
13.88 dBm/ 36.31 MHz
Power Spectral Density
-61.72 dBm/Hz
MSG
STATUS

Product	Dual band AC1900 USB 3.0 Wi-Fi Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2015/12/10	Test Site	SR7

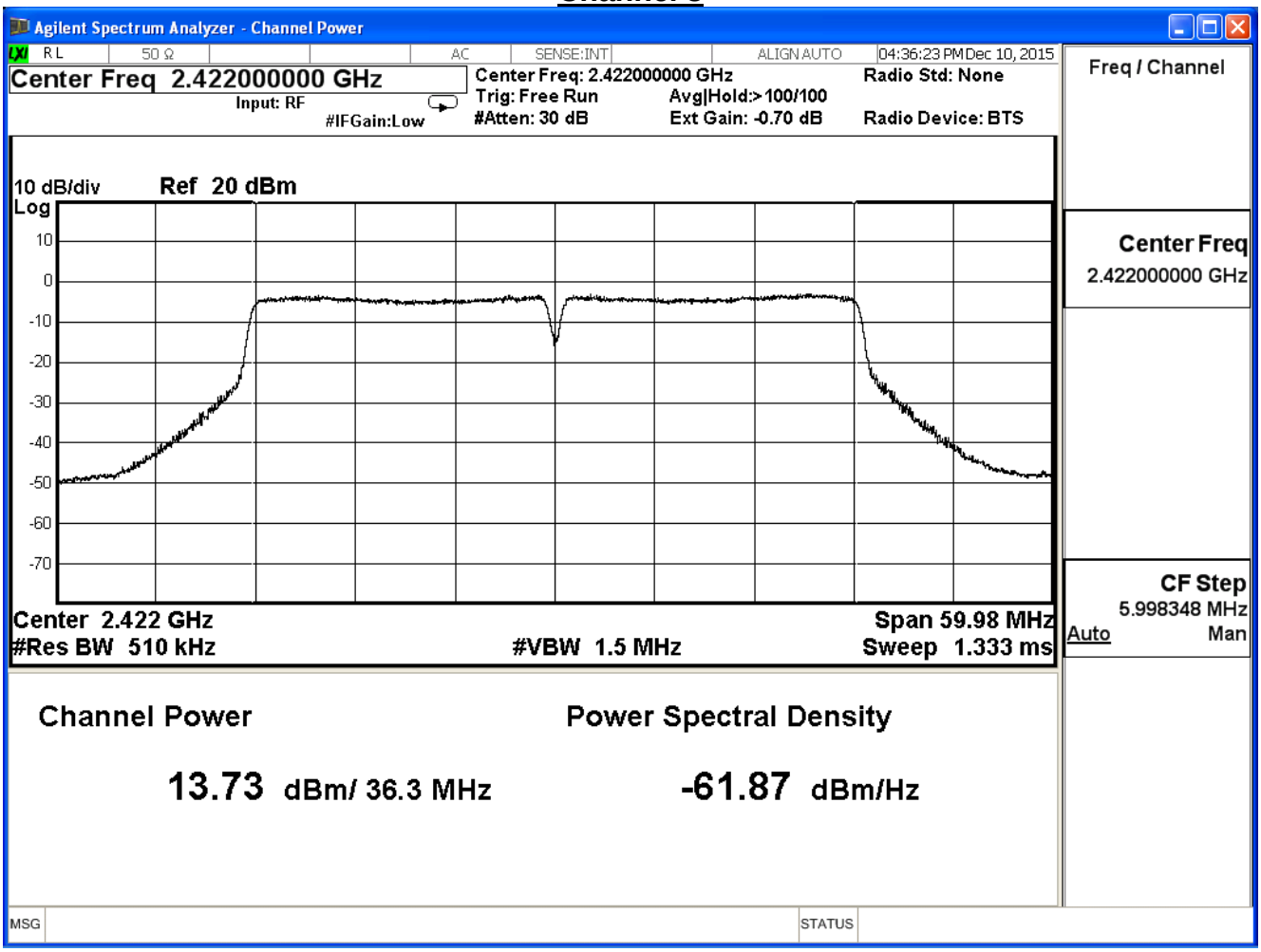
IEEE 802.11n_40M (ANT 1)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	13.73	≦30
6	2437	13.95	≦30
9	2452	13.91	≦30

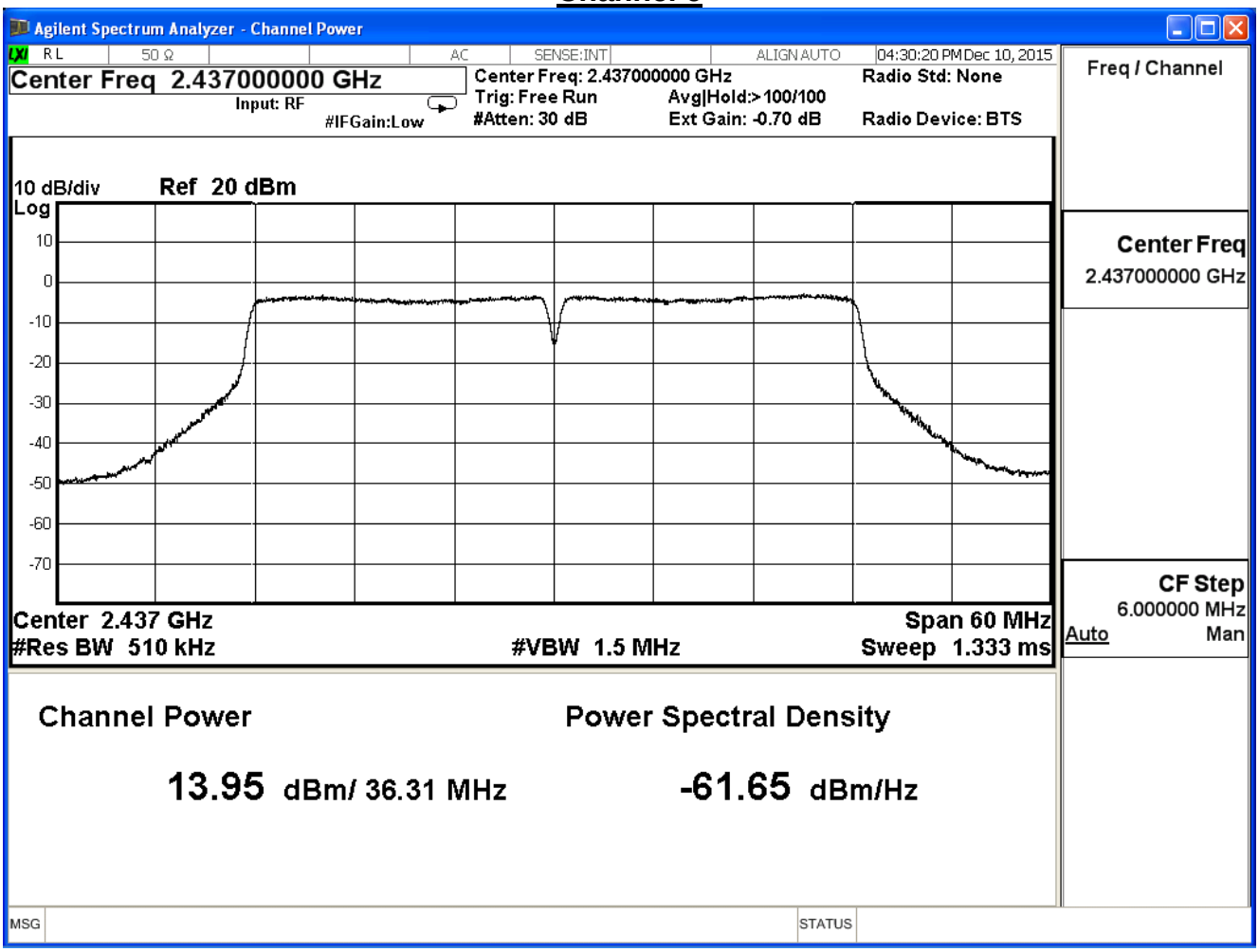
The worst emission of data rate is 40.5 Mbps.

Peak Power Output (dBm)										
MCS Index		16	17	18	19	20	21	22	23	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		40.5	81.0	121.5	162.0	243.0	324.0	364.5	405.0	
3	2422	13.73	--	--	--	--	--	--	--	≦30
6	2437	13.95	13.75	13.65	13.39	13.19	13.07	12.95	12.83	≦30
9	2452	13.91	--	--	--	--	--	--	--	≦30

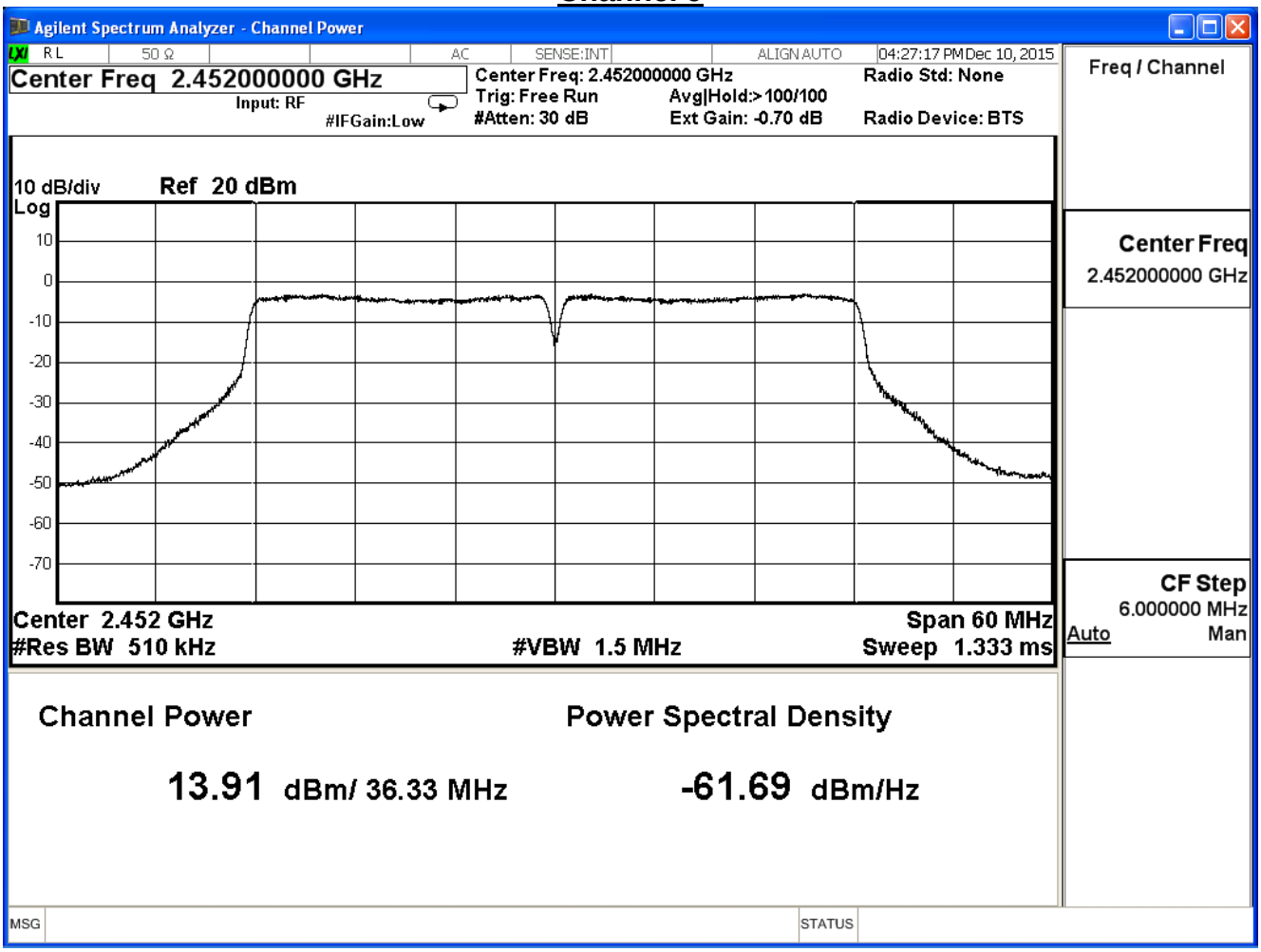
Channel 3


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:36:23 PM Dec 10, 2015
Center Freq 2.422000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.422000000 GHz
Trig: Free Run
#Atten: 30 dB
Avg|Hold:>100/100
Ext Gain: -0.70 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
2.422000000 GHz
Center 2.422 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 59.98 MHz
Sweep 1.333 ms
CF Step
5.998348 MHz
Auto
Man
Channel Power
13.73 dBm/ 36.3 MHz
Power Spectral Density
-61.87 dBm/Hz
MSG
STATUS

Channel 6


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:30:20 PM Dec 10, 2015
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: -0.70 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 60 MHz
Sweep 1.333 ms
CF Step
6.000000 MHz
Auto
Man
Channel Power
13.95 dBm/ 36.31 MHz
Power Spectral Density
-61.65 dBm/Hz
MSG
STATUS

Channel 9


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:27:17 PM Dec 10, 2015
Center Freq 2.452000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.452000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -0.70 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
2.452000000 GHz
Center 2.452 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1.333 ms
CF Step
6.000000 MHz
Auto
Man
Channel Power
13.91 dBm/ 36.33 MHz
Power Spectral Density
-61.69 dBm/Hz
MSG
STATUS

Product	Dual band AC1900 USB 3.0 Wi-Fi Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2015/12/10	Test Site	SR7

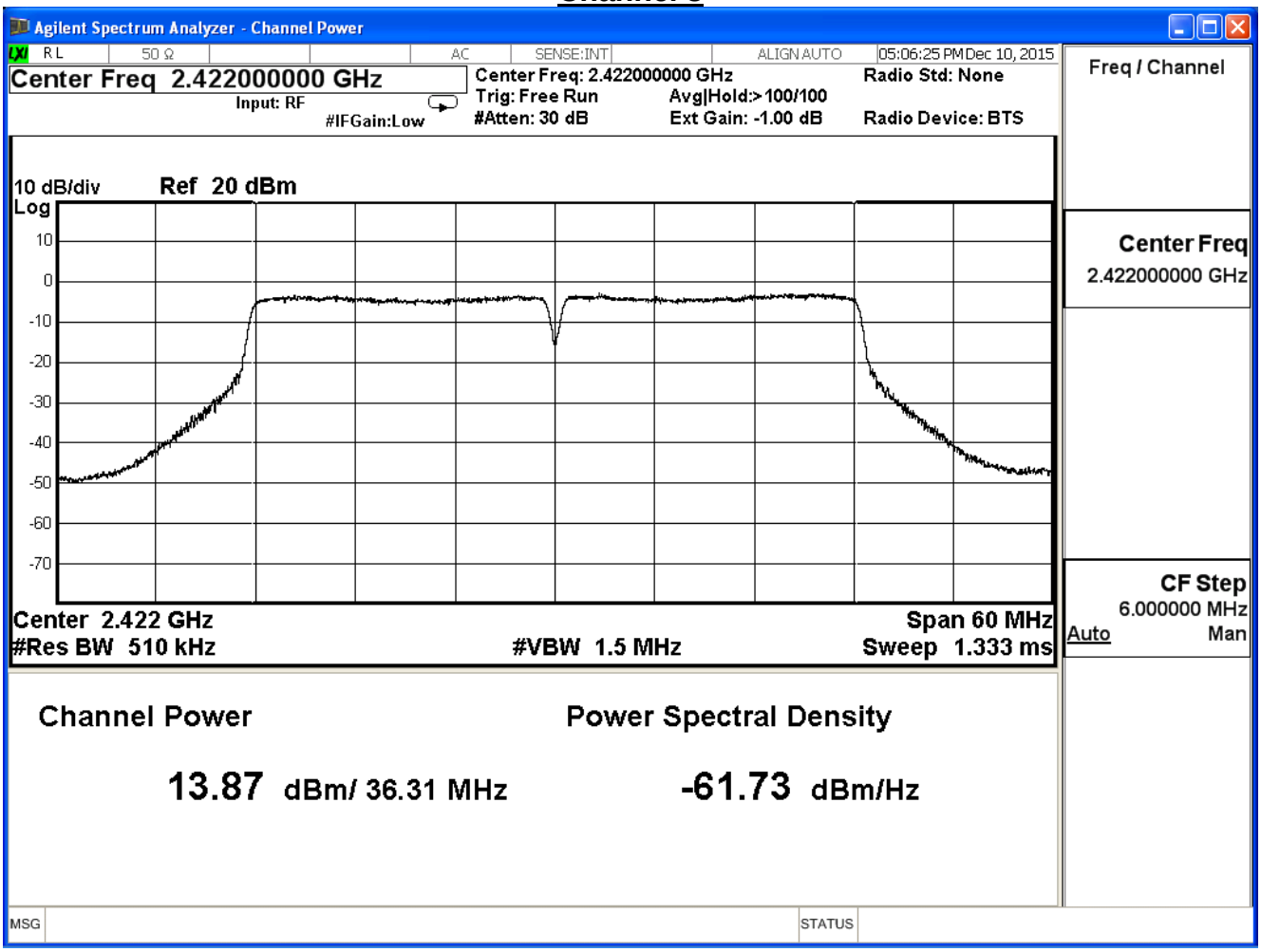
IEEE 802.11n_40M (ANT 2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	13.87	≦30
6	2437	13.83	≦30
9	2452	13.85	≦30

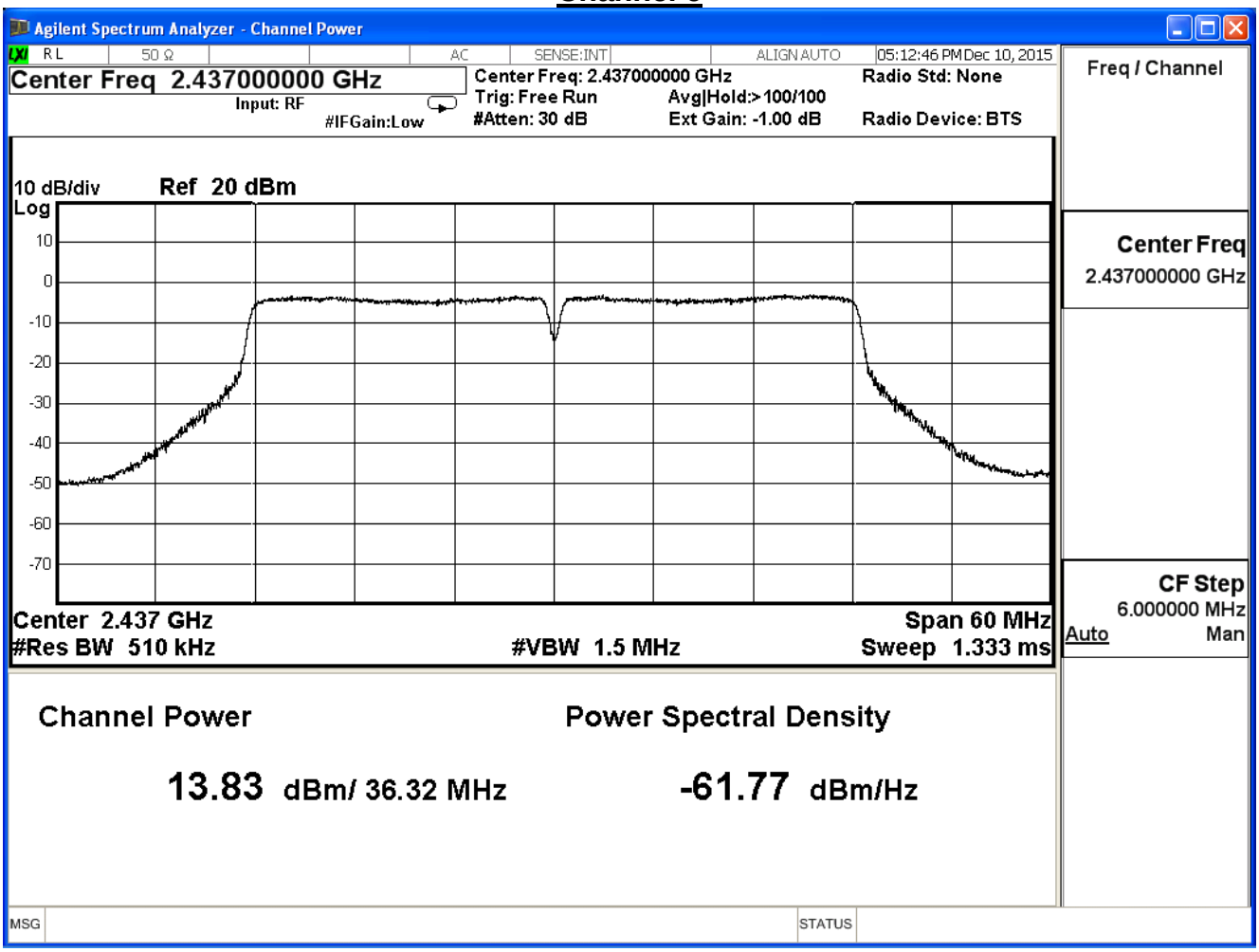
The worst emission of data rate is 40.5 Mbps.

Peak Power Output (dBm)										
MCS Index		16	17	18	19	20	21	22	23	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		40.5	81.0	121.5	162.0	243.0	324.0	364.5	405.0	
3	2422	13.87	--	--	--	--	--	--	--	≦30
6	2437	13.83	13.63	13.41	13.21	13.09	12.85	12.73	12.61	≦30
9	2452	13.85	--	--	--	--	--	--	--	≦30

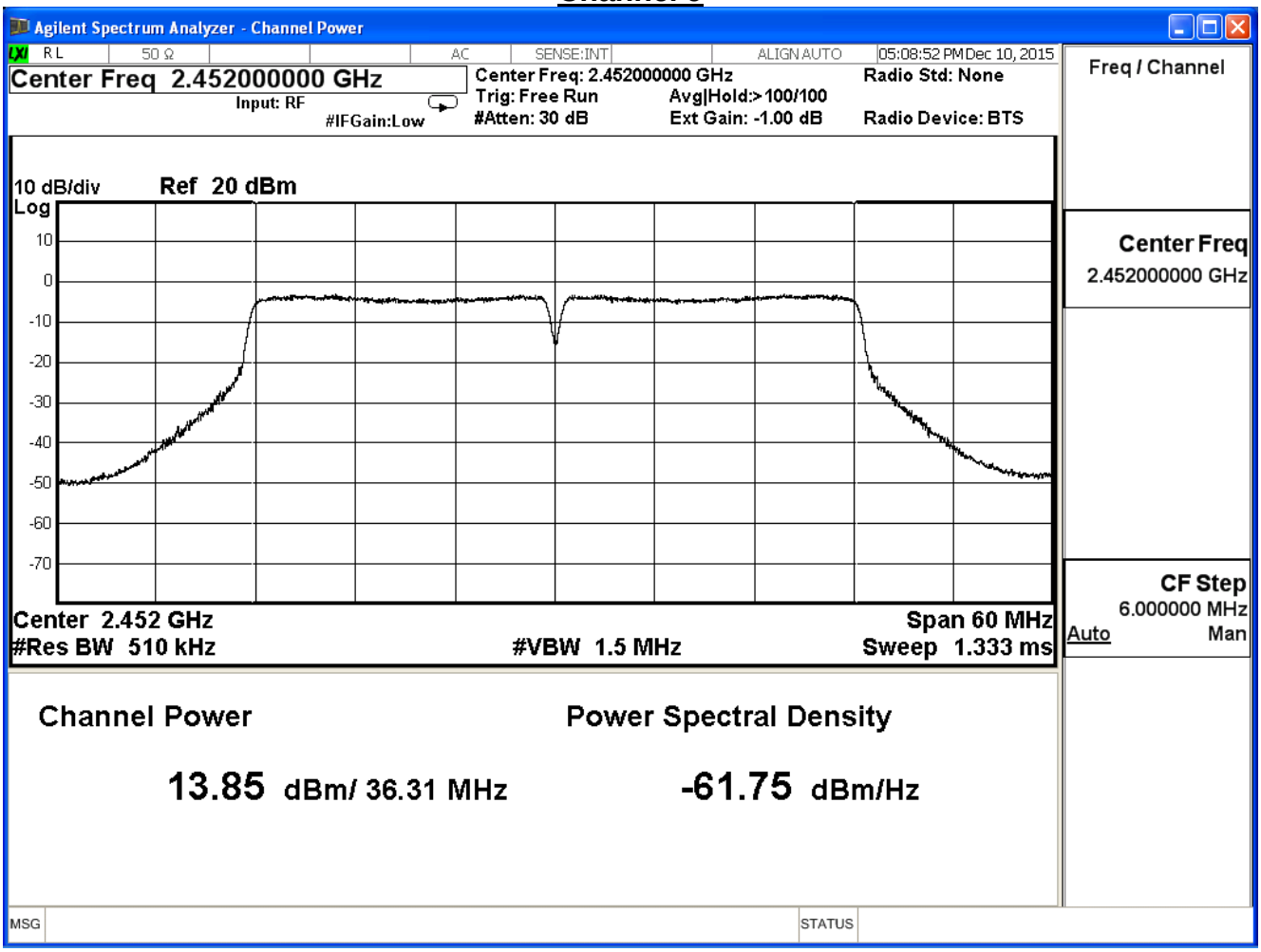
Channel 3


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
05:06:25 PM Dec 10, 2015
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: -1.00 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
2.422000000 GHz
Center 2.422 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1.333 ms
CF Step
6.000000 MHz
Auto
Man
Channel Power
13.87 dBm/ 36.31 MHz
Power Spectral Density
-61.73 dBm/Hz
MSG
STATUS

Channel 6


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
05:12:46 PM Dec 10, 2015
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: -1.00 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
CF Step
6.000000 MHz
Auto
Man
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1.333 ms
Channel Power
13.83 dBm/ 36.32 MHz
Power Spectral Density
-61.77 dBm/Hz
MSG
STATUS

Channel 9


Agilent Spectrum Analyzer - Channel Power
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
05:08:52 PM Dec 10, 2015
Center Freq 2.452000000 GHz
Input: RF
#IFGain:Low
Center Freq: 2.452000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -1.00 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
2.452000000 GHz
Center 2.452 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1.333 ms
CF Step
6.000000 MHz
Auto
Man
Channel Power
13.85 dBm/ 36.31 MHz
Power Spectral Density
-61.75 dBm/Hz
MSG
STATUS

Product	Dual band AC1900 USB 3.0 Wi-Fi Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2015/12/10	Test Site	SR7

IEEE 802.11n_40M (ANT 0+1+2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	18.57	≦30
6	2437	18.63	≦30
9	2452	18.65	≦30

The worst emission of data rate is 40.5Mbps.

Peak Power Output (dBm)										
MCS Index		16	17	18	19	20	21	22	23	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		40.5	81.0	121.5	162.0	243.0	324.0	364.5	405.0	
3	2422	18.57	--	--	--	--	--	--	--	≦30
6	2437	18.63	18.43	18.25	18.07	17.92	17.77	17.64	17.48	≦30
9	2452	18.65	--	--	--	--	--	--	--	≦30

Product	Dual band AC1900 USB 3.0 Wi-Fi Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 3: Transmit_Beamforming Mode		
Date of Test	2016/05/10	Test Site	SR7

EEE 802.11n_20M (ANT 0)

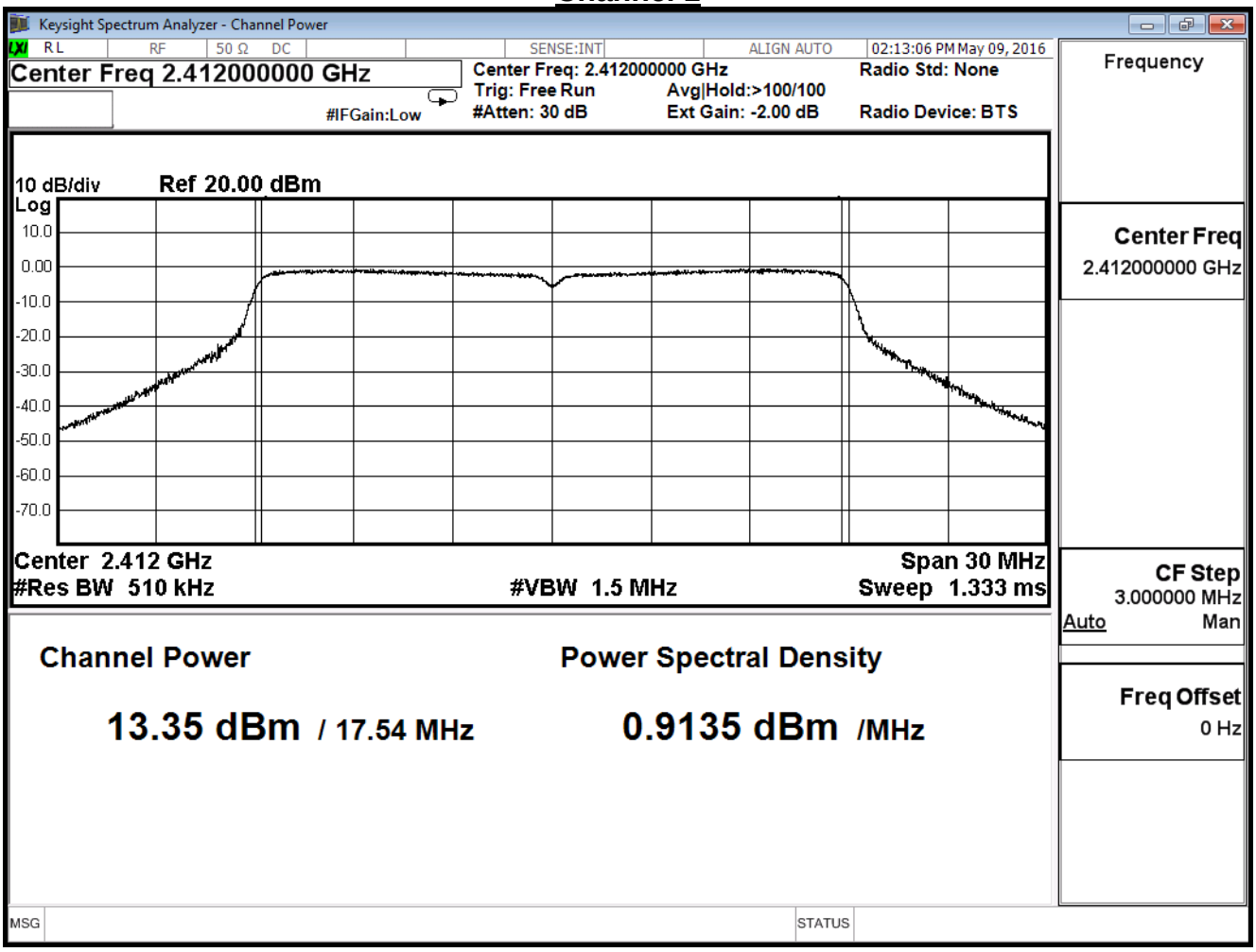
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	13.35	≦28.52
6	2437	13.34	≦28.52
11	2462	13.58	≦28.52

The worst emission of data rate is 19.5Mbps

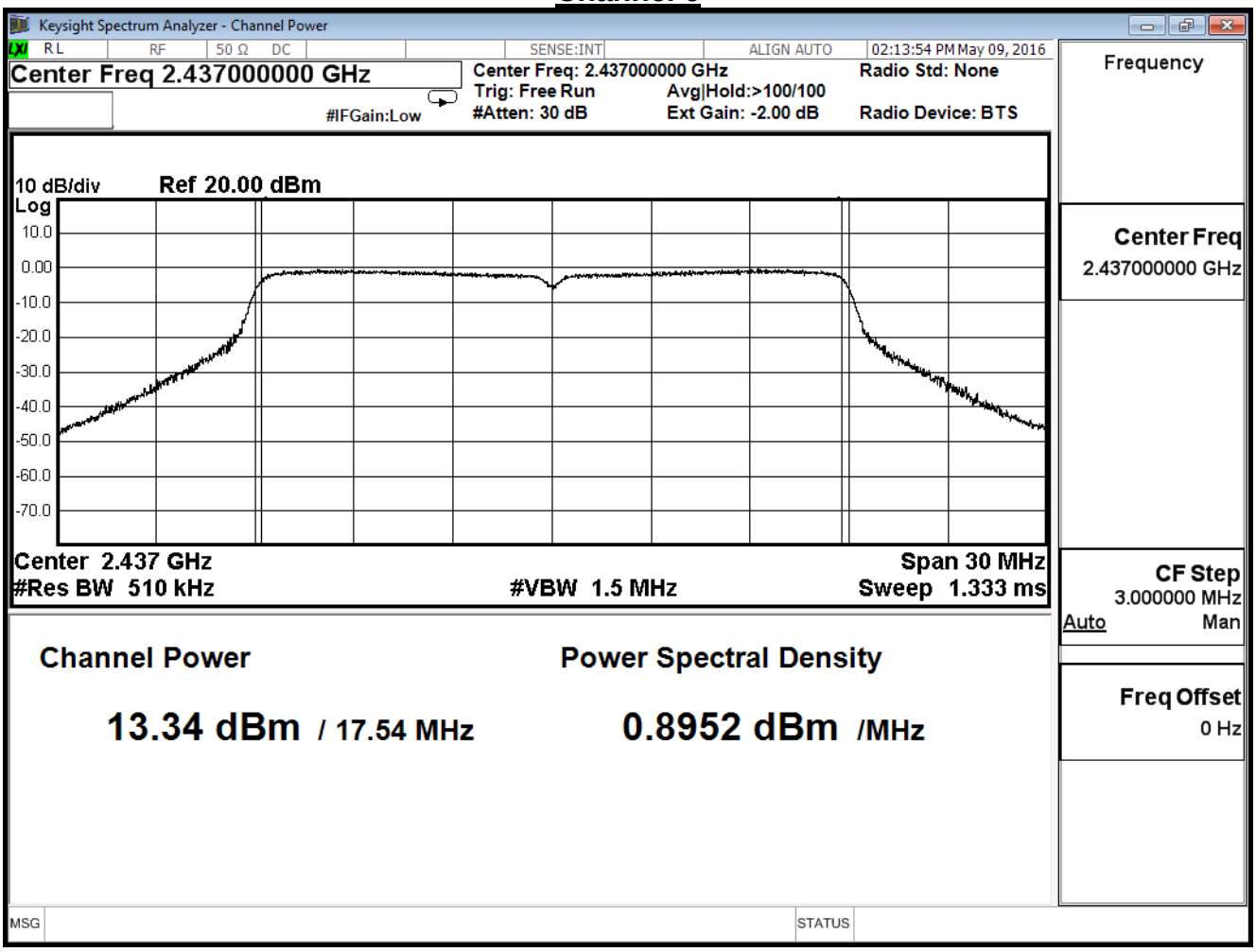
Peak Power Output (dBm)										
MCS Index		16	17	18	19	20	21	22	23	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		19.5	39	58.5	78	117	156	175.5	195	
1	2412	13.35	--	--	--	--	--	--	--	≦28.52
6	2437	13.34	13.22	13.12	13.01	12.88	12.76	12.52	12.41	≦28.52
11	2462	13.58	--	--	--	--	--	--	--	≦28.52

Total Gain: 10log(ANT N)+max Gain=2.71+4.77 = 7.48dBi
Limit=30-(7.48dBi-6dBi)=28.52 dBi

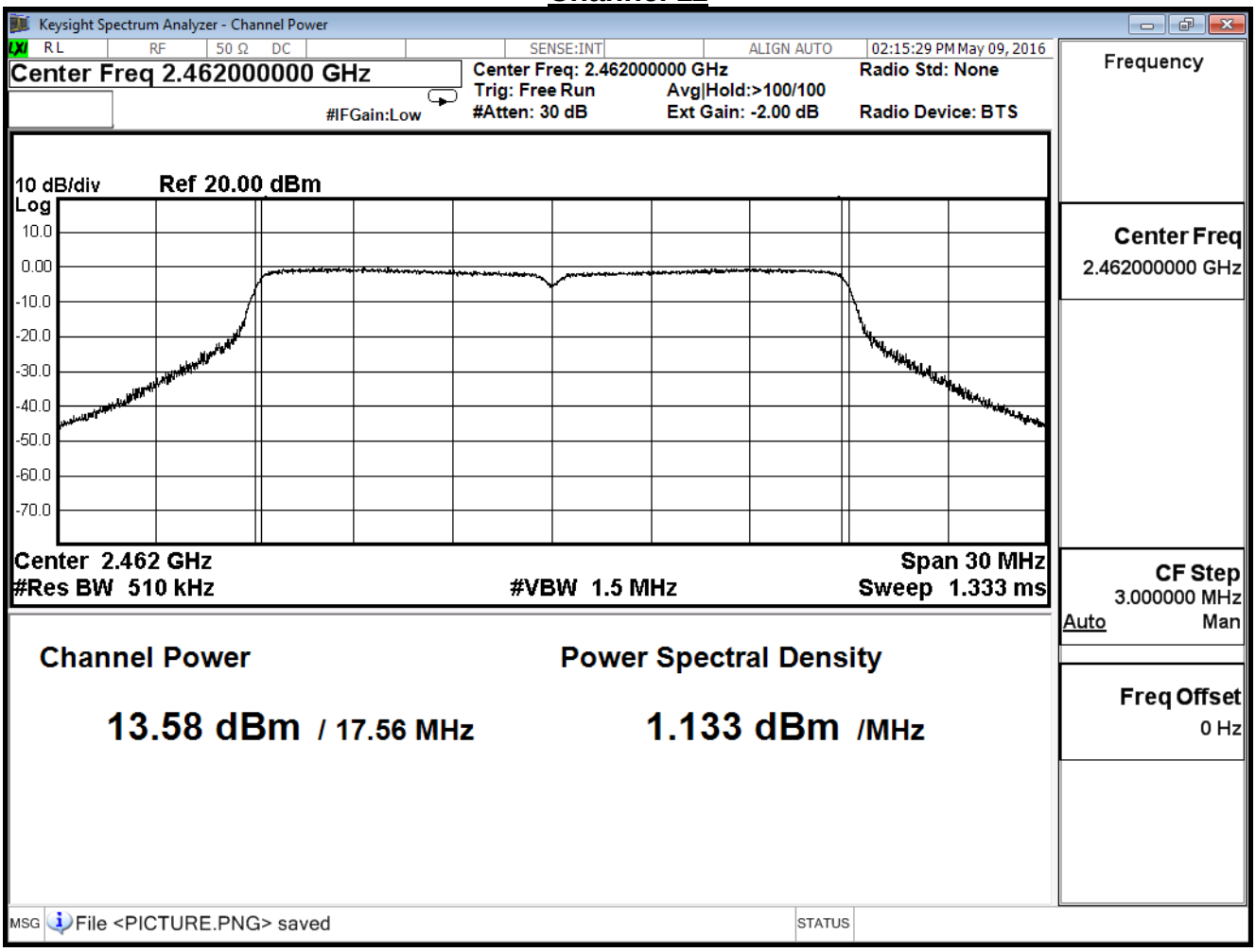
Channel 1


Keysight Spectrum Analyzer - Channel Power
RL
RF
50 Ω DC
SENSE:INT
ALIGN AUTO
02:13:06 PM May 09, 2016
Center Freq 2.412000000 GHz
#IFGain:Low
Center Freq: 2.412000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Ref 20.00 dBm
Log
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center Freq
2.412000000 GHz
Center 2.412 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
13.35 dBm / 17.54 MHz
Power Spectral Density
0.9135 dBm /MHz
Freq Offset
0 Hz
MSG
STATUS

Channel 6


Keysight Spectrum Analyzer - Channel Power
RL
RF
50 Ω DC
SENSE:INT
ALIGN AUTO
02:13:54 PM May 09, 2016
Center Freq 2.437000000 GHz
Center Freq: 2.437000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#IFGain:Low
#Atten: 30 dB
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Ref 20.00 dBm
Log
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center Freq
2.437000000 GHz
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
13.34 dBm / 17.54 MHz
Power Spectral Density
0.8952 dBm /MHz
Freq Offset
0 Hz
MSG
STATUS

Channel 11


Keysight Spectrum Analyzer - Channel Power
RL
RF
50 Ω DC
SENSE:INT
ALIGN AUTO
02:15:29 PM May 09, 2016
Center Freq 2.462000000 GHz
Center Freq: 2.462000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#IFGain:Low
#Atten: 30 dB
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Ref 20.00 dBm
Log
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center Freq
2.462000000 GHz
Center 2.462 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
13.58 dBm / 17.56 MHz
Power Spectral Density
1.133 dBm /MHz
Freq Offset
0 Hz
MSG
File <PICTURE.PNG> saved
STATUS

Product	Dual band AC1900 USB 3.0 Wi-Fi Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 3: Transmit_Beamforming Mode		
Date of Test	2016/05/10	Test Site	SR7

IEEE 802.11n_20M (ANT 1)

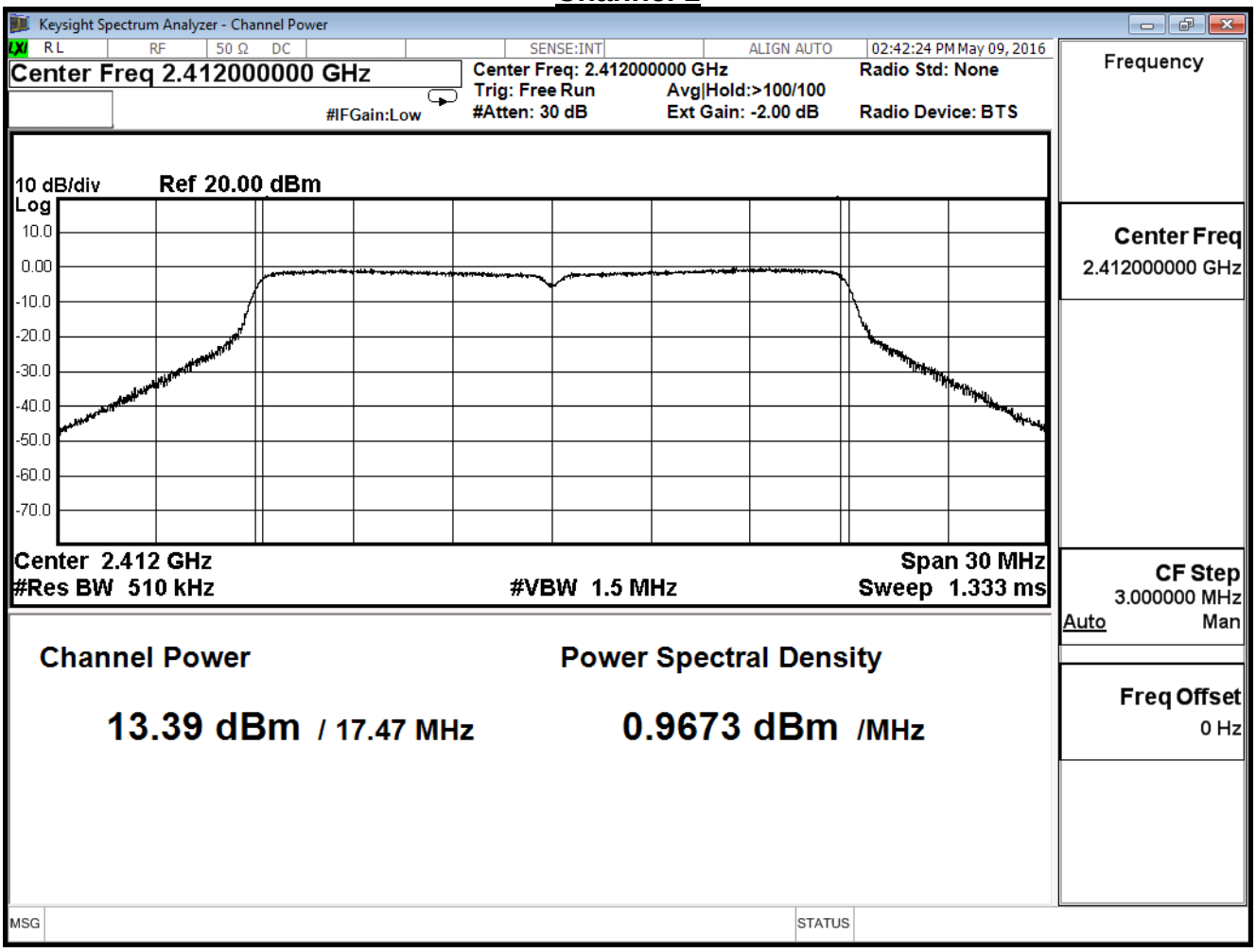
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	13.39	≦28.52
6	2437	13.68	≦28.52
11	2462	13.85	≦28.52

The worst emission of data rate is 19.5Mbps

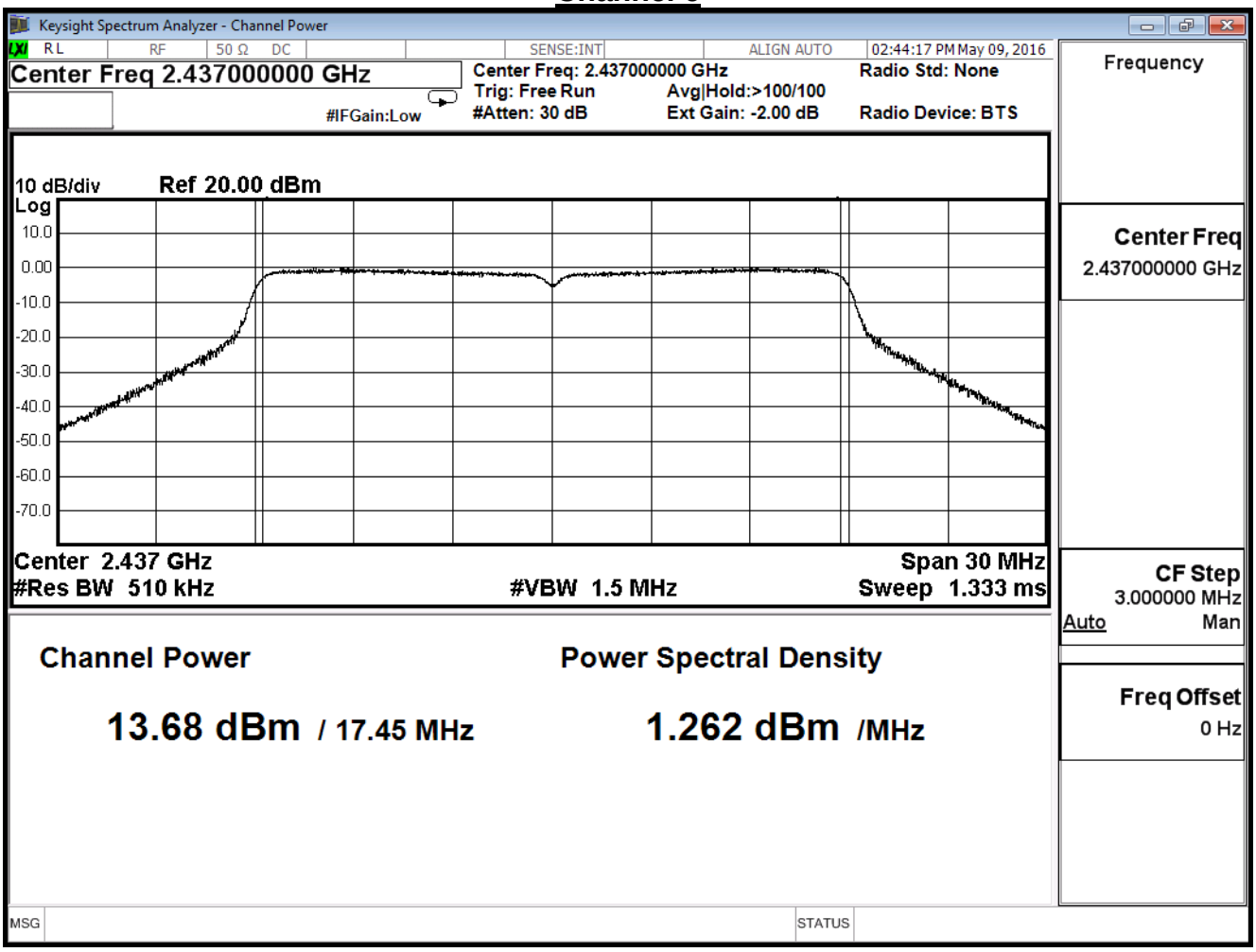
Peak Power Output (dBm)										
MCS Index		16	17	18	19	20	21	22	23	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		19.5	39	58.5	78	117	156	175.5	195	
1	2412	13.39	--	--	--	--	--	--	--	≦28.52
6	2437	13.68	13.48	13.24	13.04	12.80	12.68	12.44	12.18	≦28.52
11	2462	13.85	--	--	--	--	--	--	--	≦28.52

Total Gain: 10log(ANT N)+max Gain=2.71+4.77 = 7.48dBi
Limit=30-(7.48dBi-6dBi)=28.52 dBi

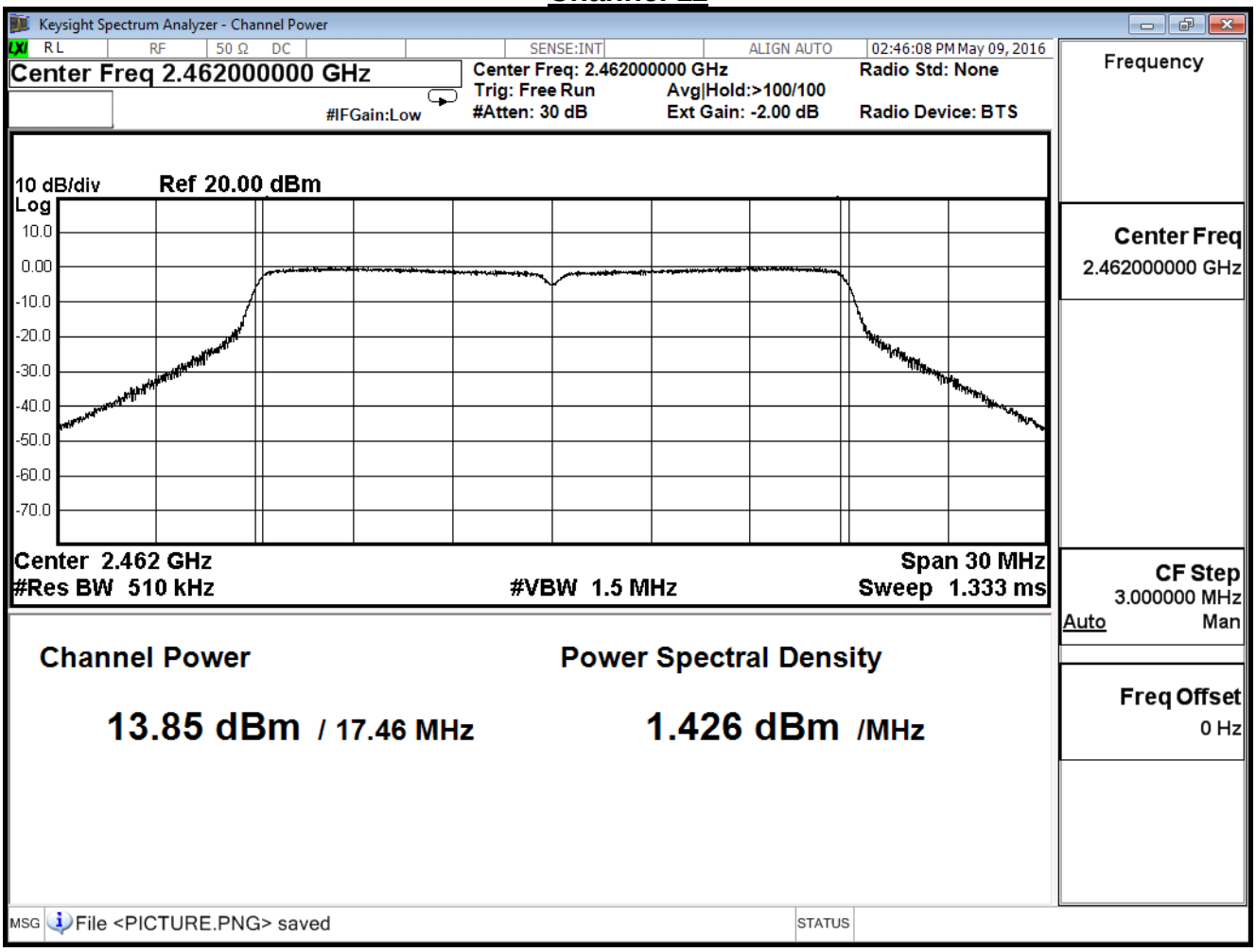
Channel 1


Keysight Spectrum Analyzer - Channel Power
RL
RF
50 Ω DC
SENSE:INT
ALIGN AUTO
02:42:24 PM May 09, 2016
Center Freq 2.412000000 GHz
#IFGain:Low
Center Freq: 2.412000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center Freq
2.412000000 GHz
Center 2.412 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
13.39 dBm / 17.47 MHz
Power Spectral Density
0.9673 dBm /MHz
Freq Offset
0 Hz
MSG
STATUS

Channel 6


Keysight Spectrum Analyzer - Channel Power
RL
RF
50 Ω DC
SENSE:INT
ALIGN AUTO
02:44:17 PM May 09, 2016
Center Freq 2.437000000 GHz
Center Freq: 2.437000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#IFGain:Low
#Atten: 30 dB
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center Freq
2.437000000 GHz
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
13.68 dBm / 17.45 MHz
Power Spectral Density
1.262 dBm /MHz
Freq Offset
0 Hz
MSG
STATUS

Channel 11


Keysight Spectrum Analyzer - Channel Power
RL
RF
50 Ω DC
SENSE:INT
ALIGN AUTO
02:46:08 PM May 09, 2016
Center Freq 2.462000000 GHz
#IFGain:Low
Center Freq: 2.462000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center Freq
2.462000000 GHz
Center 2.462 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
13.85 dBm / 17.46 MHz
Power Spectral Density
1.426 dBm /MHz
Freq Offset
0 Hz
MSG
File <PICTURE.PNG> saved
STATUS

Product	Dual band AC1900 USB 3.0 Wi-Fi Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 3: Transmit_Beamforming Mode		
Date of Test	2016/05/10	Test Site	SR7

IEEE 802.11n_20M (ANT 2)

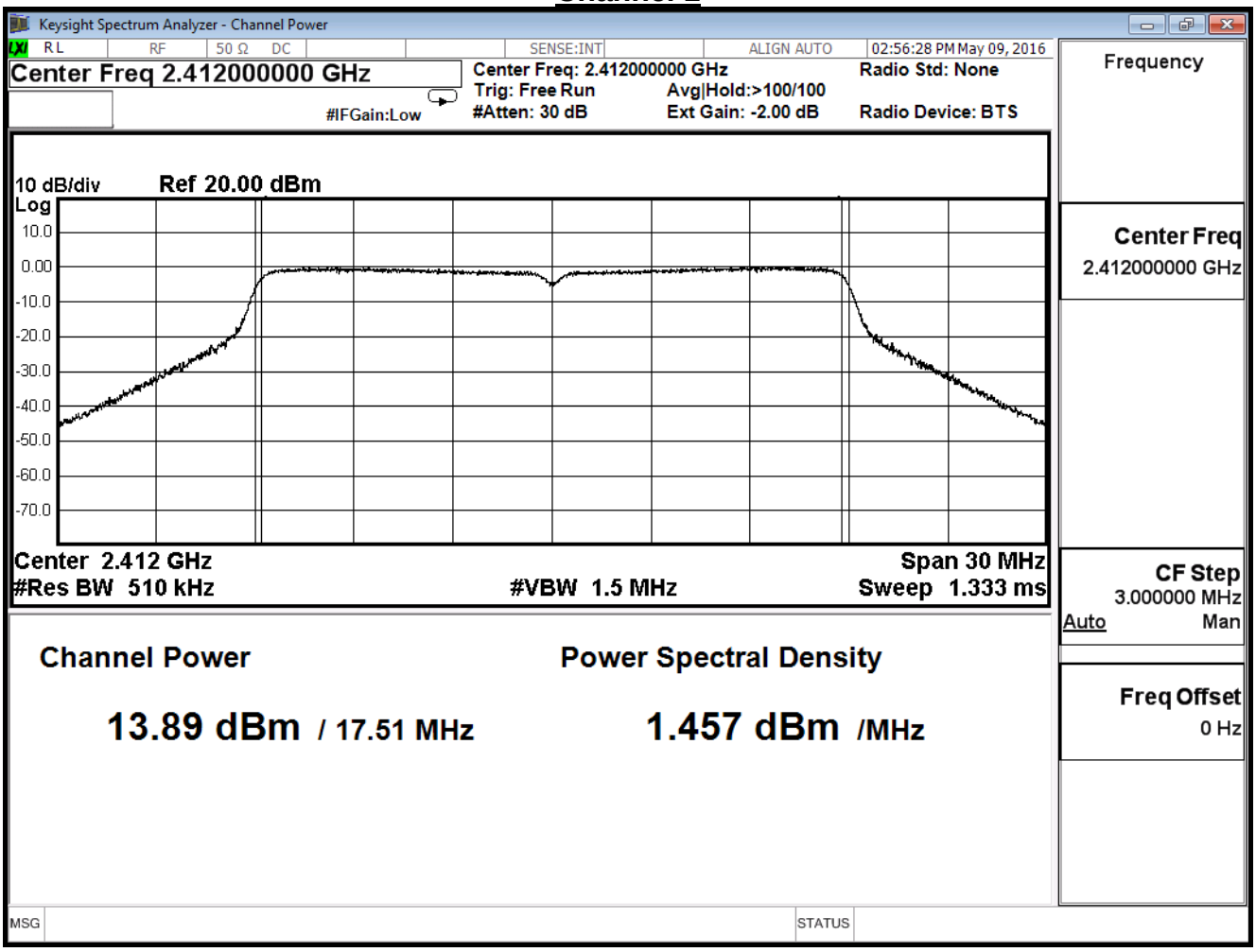
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	13.89	≦28.52
6	2437	13.83	≦28.52
11	2462	13.45	≦28.52

The worst emission of data rate is 19.5Mbps

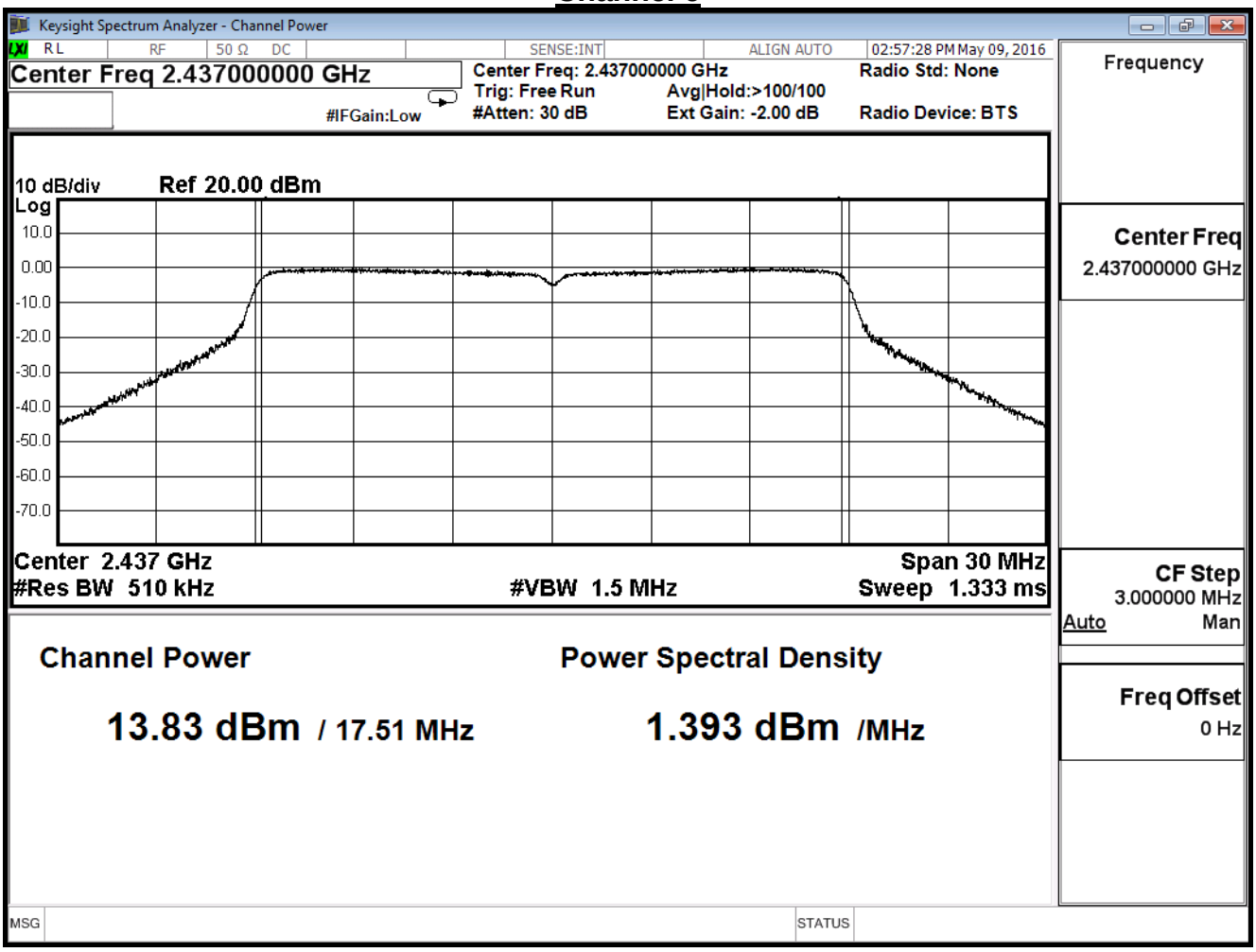
Peak Power Output (dBm)										
MCS Index		16	17	18	19	20	21	22	23	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		19.5	39	58.5	78	117	156	175.5	195	
1	2412	13.89	--	--	--	--	--	--	--	≦28.52
6	2437	13.83	13.63	13.50	13.30	13.17	13.05	12.81	12.69	≦28.52
11	2462	13.45	--	--	--	--	--	--	--	≦28.52

Total Gain: 10log(ANT N)+max Gain=2.71+4.77 = 7.48dBi
Limit=30-(7.48dBi-6dBi)=28.52 dBi

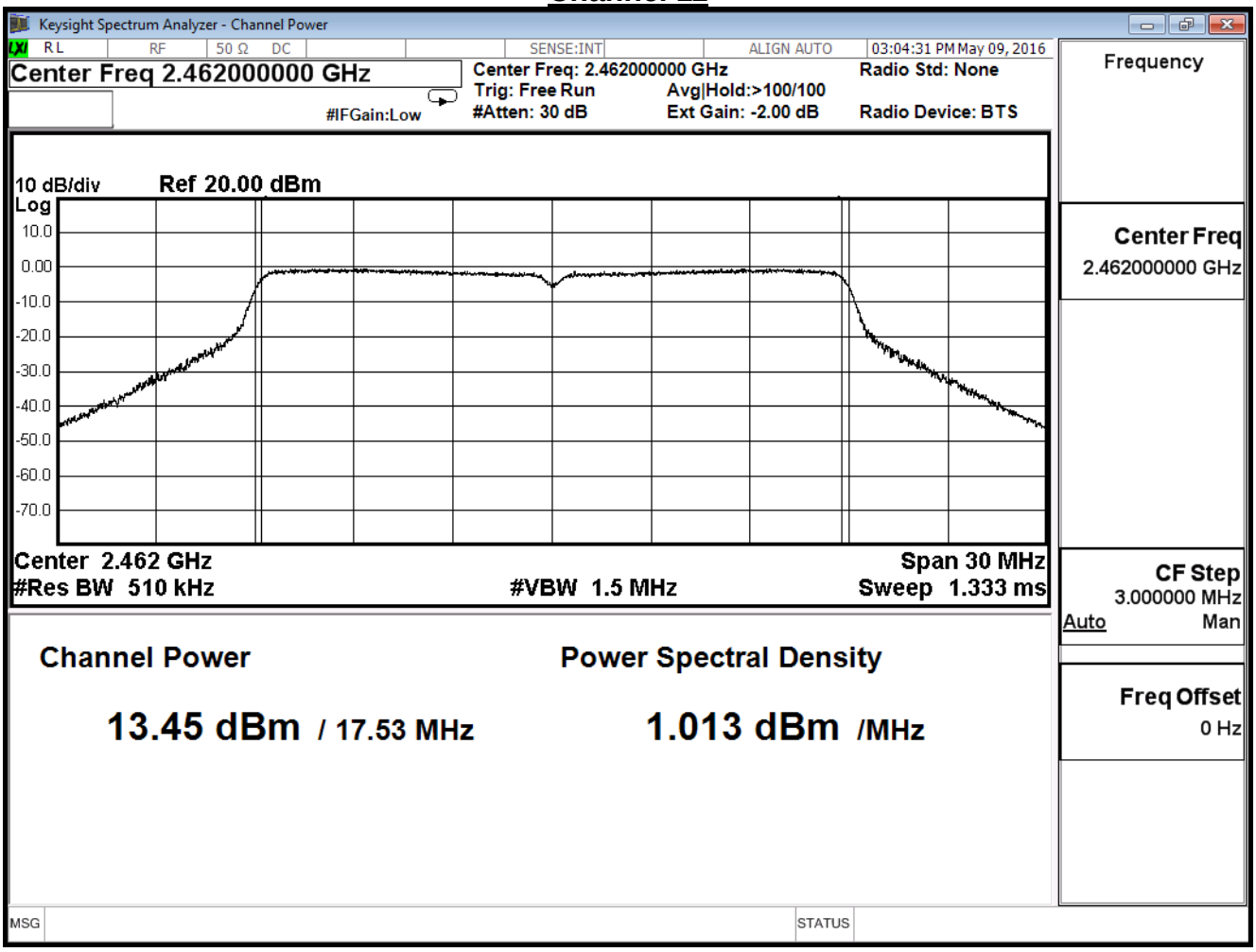
Channel 1


Keysight Spectrum Analyzer - Channel Power
RL
RF
50 Ω DC
SENSE:INT
ALIGN AUTO
02:56:28 PM May 09, 2016
Center Freq 2.412000000 GHz
#IFGain:Low
Center Freq: 2.412000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center Freq
2.412000000 GHz
Center 2.412 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
13.89 dBm / 17.51 MHz
Power Spectral Density
1.457 dBm /MHz
Freq Offset
0 Hz
MSG
STATUS

Channel 6


Keysight Spectrum Analyzer - Channel Power
RL
RF
50 Ω DC
SENSE:INT
ALIGN AUTO
02:57:28 PM May 09, 2016
Center Freq 2.437000000 GHz
Center Freq: 2.437000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#IFGain:Low
#Atten: 30 dB
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center Freq
2.437000000 GHz
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
13.83 dBm / 17.51 MHz
Power Spectral Density
1.393 dBm /MHz
Freq Offset
0 Hz
MSG
STATUS

Channel 11


Keysight Spectrum Analyzer - Channel Power
RL
RF
50 Ω DC
SENSE:INT
ALIGN AUTO
03:04:31 PM May 09, 2016
Center Freq 2.462000000 GHz
Center Freq: 2.462000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#IFGain:Low
#Atten: 30 dB
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Ref 20.00 dBm
Log
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center Freq
2.462000000 GHz
Center 2.462 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 30 MHz
Sweep 1.333 ms
CF Step
3.000000 MHz
Auto
Man
Channel Power
13.45 dBm / 17.53 MHz
Power Spectral Density
1.013 dBm /MHz
Freq Offset
0 Hz
MSG
STATUS

Product	Dual band AC1900 USB 3.0 Wi-Fi Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 3: Transmit_Beamforming Mode		
Date of Test	2016/05/10	Test Site	SR7

IEEE 802.11n_20M (ANT 0+1+2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
1	2412	18.32	≦28.52
6	2437	18.39	≦28.52
11	2462	18.40	≦28.52

The worst emission of data rate is 19.5Mbps

Peak Power Output (dBm)										
MCS Index		16	17	18	19	20	21	22	23	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		19.5	39	58.5	78	117	156	175.5	195	
1	2412	18.32	--	--	--	--	--	--	--	≦28.52
6	2437	18.39	18.22	18.06	17.89	17.72	17.60	17.36	17.20	≦28.52
11	2462	18.40	--	--	--	--	--	--	--	≦28.52

Total Gain: 10log(ANT N)+max Gain=2.71+4.77 = 7.48dBi
Limit=30-(7.48dBi-6dBi)=28.52 dBi

Product	Dual band AC1900 USB 3.0 Wi-Fi Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 3: Transmit_Beamforming Mode		
Date of Test	2016/05/10	Test Site	SR7

IEEE 802.11n_40M(ANT 0)

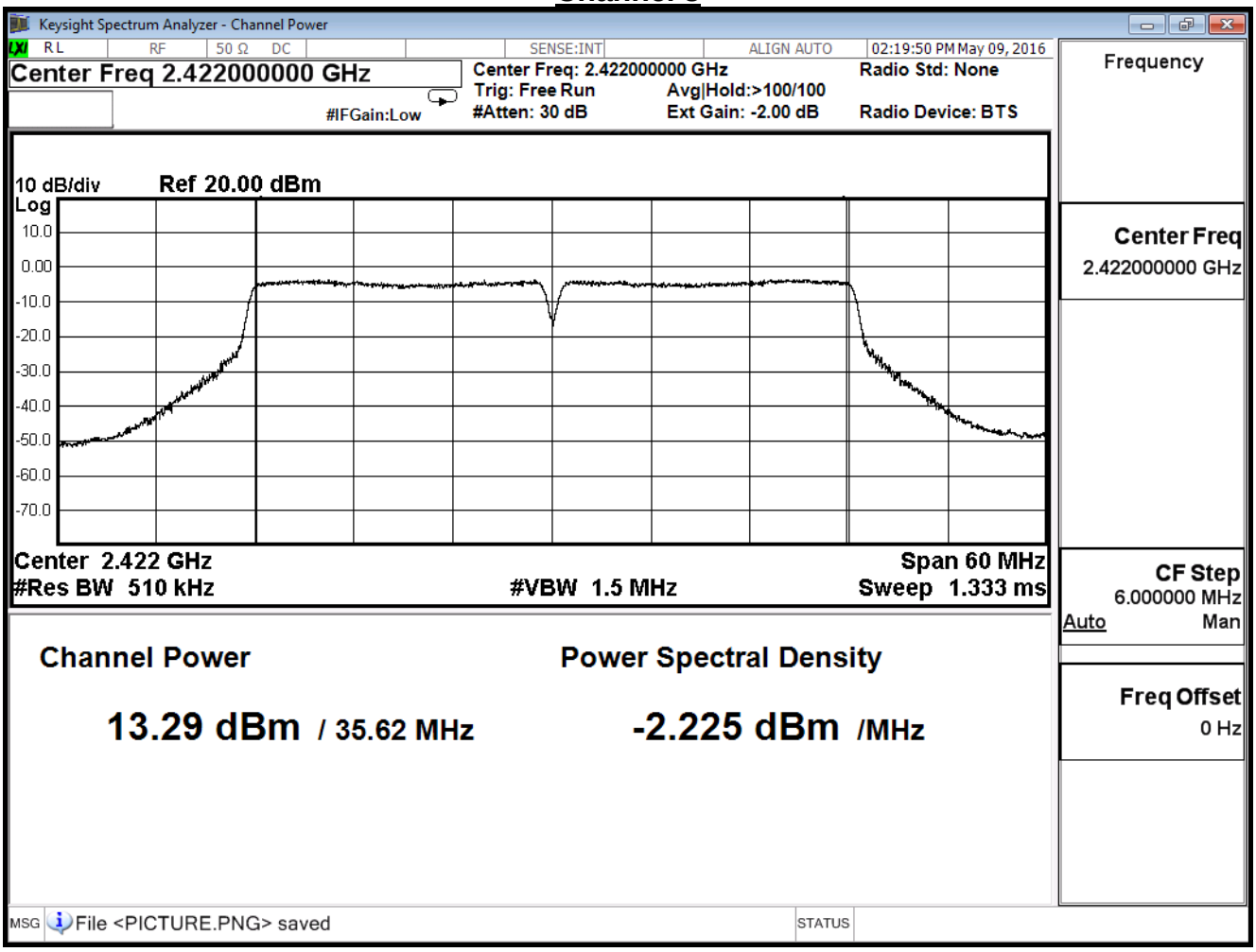
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	13.29	≦28.52
6	2437	13.15	≦28.52
9	2452	12.85	≦28.52

The worst emission of data rate is 40.5 Mbps.

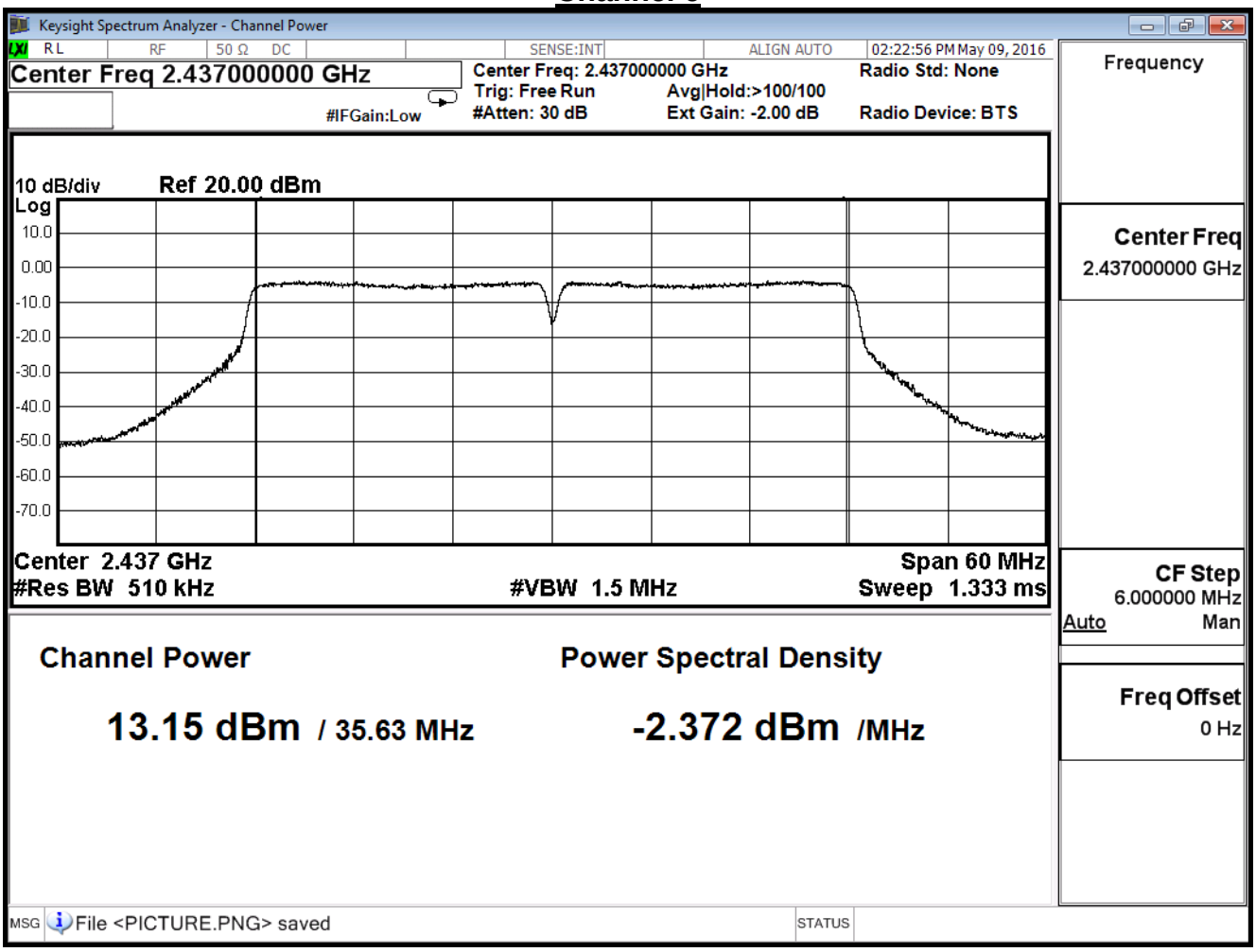
Peak Power Output (dBm)										
MCS Index		16	17	18	19	20	21	22	23	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		40.5	81.0	121.5	162.0	243.0	324.0	364.5	405.0	
3	2422	13.29	--	--	--	--	--	--	--	≦28.52
6	2437	13.15	13.05	12.94	12.74	12.64	12.52	12.26	12.14	≦28.52
9	2452	12.85	--	--	--	--	--	--	--	≦28.52

Total Gain: 10log(ANT N)+max Gain=2.71+4.77 = 7.48dBi
Limit=30-(7.48dBi-6dBi)=28.52 dBi

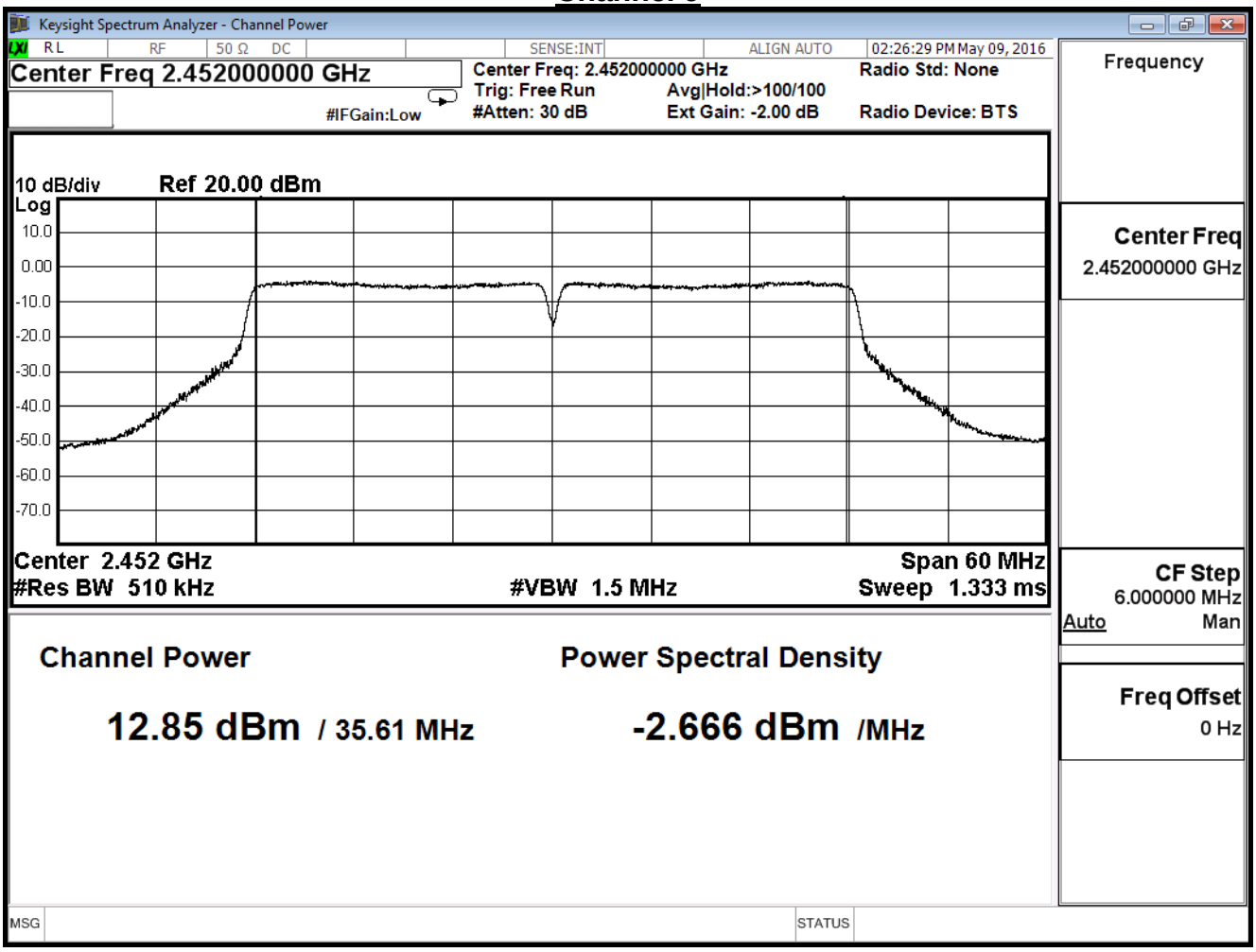
Channel 3


Keysight Spectrum Analyzer - Channel Power
RL
RF
50 Ω DC
SENSE:INT
ALIGN AUTO
02:19:50 PM May 09, 2016
Center Freq 2.422000000 GHz
#IFGain:Low
Center Freq: 2.422000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center Freq
2.422000000 GHz
Center 2.422 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1.333 ms
CF Step
6.000000 MHz
Auto
Man
Channel Power
13.29 dBm / 35.62 MHz
Power Spectral Density
-2.225 dBm /MHz
Freq Offset
0 Hz
MSG
File <PICTURE.PNG> saved
STATUS

Channel 6


Keysight Spectrum Analyzer - Channel Power
RL
RF
50 Ω DC
SENSE:INT
ALIGN AUTO
02:22:56 PM May 09, 2016
Center Freq 2.437000000 GHz
Center Freq: 2.437000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#IFGain:Low
#Atten: 30 dB
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center Freq
2.437000000 GHz
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1.333 ms
CF Step
6.000000 MHz
Auto
Man
Channel Power
13.15 dBm / 35.63 MHz
Power Spectral Density
-2.372 dBm /MHz
Freq Offset
0 Hz
MSG
File <PICTURE.PNG> saved
STATUS

Channel 9


Keysight Spectrum Analyzer - Channel Power
RL
RF
50 Ω DC
SENSE:INT
ALIGN AUTO
02:26:29 PM May 09, 2016
Center Freq 2.452000000 GHz
Center Freq: 2.452000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#IFGain:Low
#Atten: 30 dB
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Ref 20.00 dBm
Log
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center Freq
2.452000000 GHz
Center 2.452 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1.333 ms
CF Step
6.000000 MHz
Auto
Man
Channel Power
12.85 dBm / 35.61 MHz
Power Spectral Density
-2.666 dBm /MHz
Freq Offset
0 Hz
MSG
STATUS

Product	Dual band AC1900 USB 3.0 Wi-Fi Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 3: Transmit_Beamforming Mode		
Date of Test	2016/05/10	Test Site	SR7

IEEE 802.11n_40M (ANT 1)

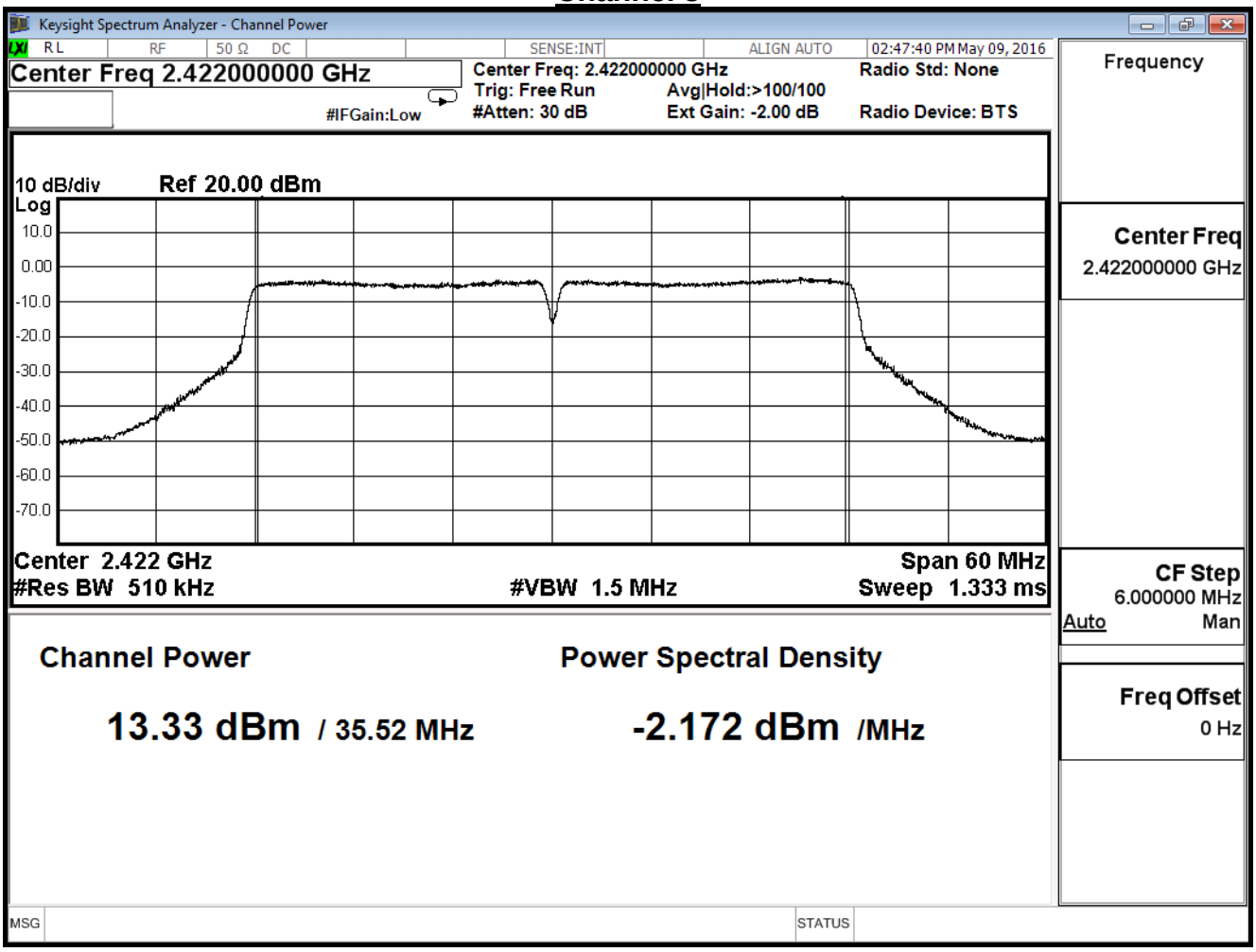
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	13.33	≦28.52
6	2437	13.63	≦28.52
9	2452	13.67	≦28.52

The worst emission of data rate is40.5 Mbps.

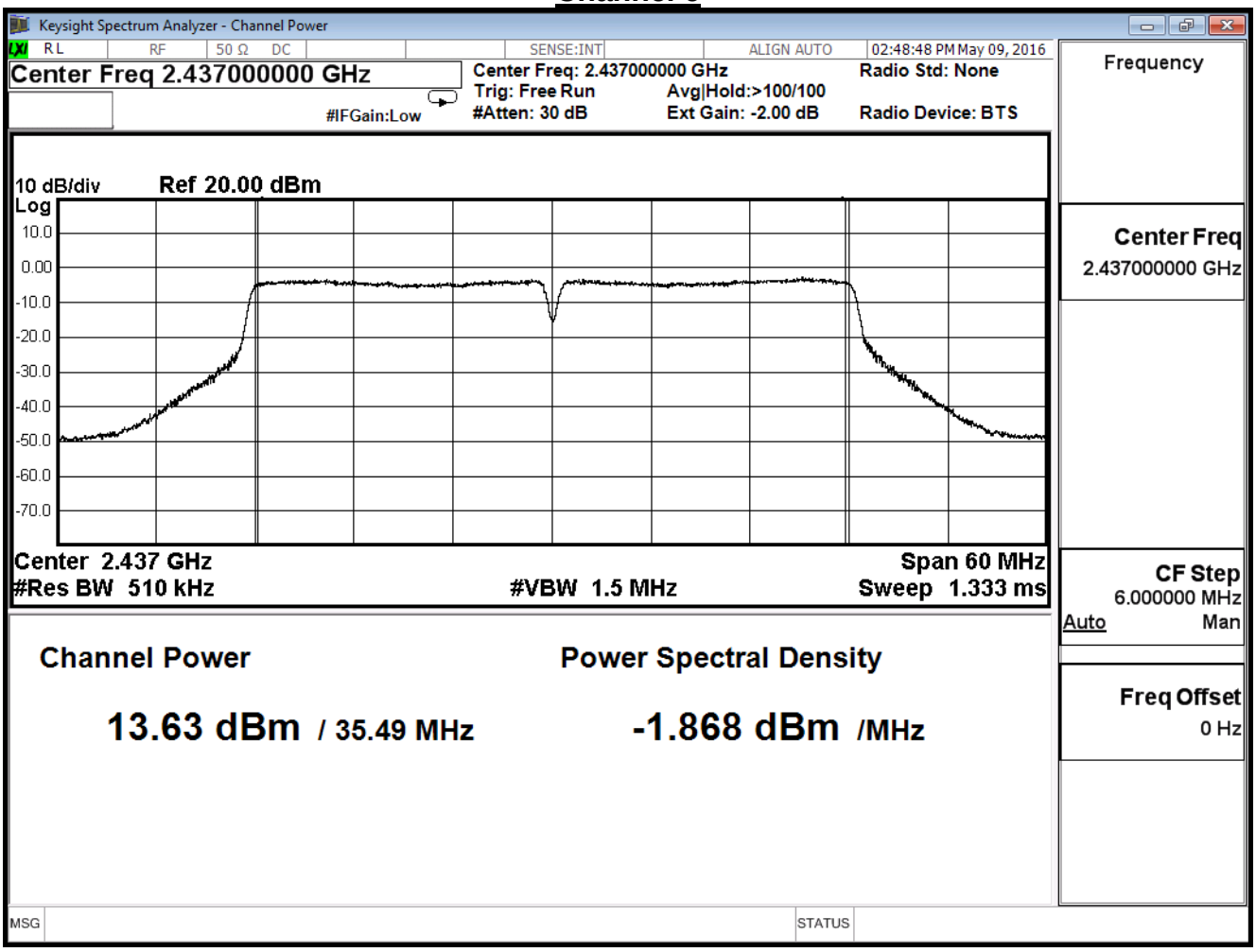
Peak Power Output (dBm)										
MCS Index		16	17	18	19	20	21	22	23	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		40.5	81.0	121.5	162.0	243.0	324.0	364.5	405.0	
3	2422	13.33	--	--	--	--	--	--	--	≦28.52
6	2437	13.63	13.43	13.33	13.07	12.97	12.73	12.61	12.49	≦28.52
9	2452	13.67	--	--	--	--	--	--	--	≦28.52

Total Gain: 10log(ANT N)+max Gain=2.71+4.77 = 7.48dBi
Limit=30-(7.48dBi-6dBi)=28.52 dBi

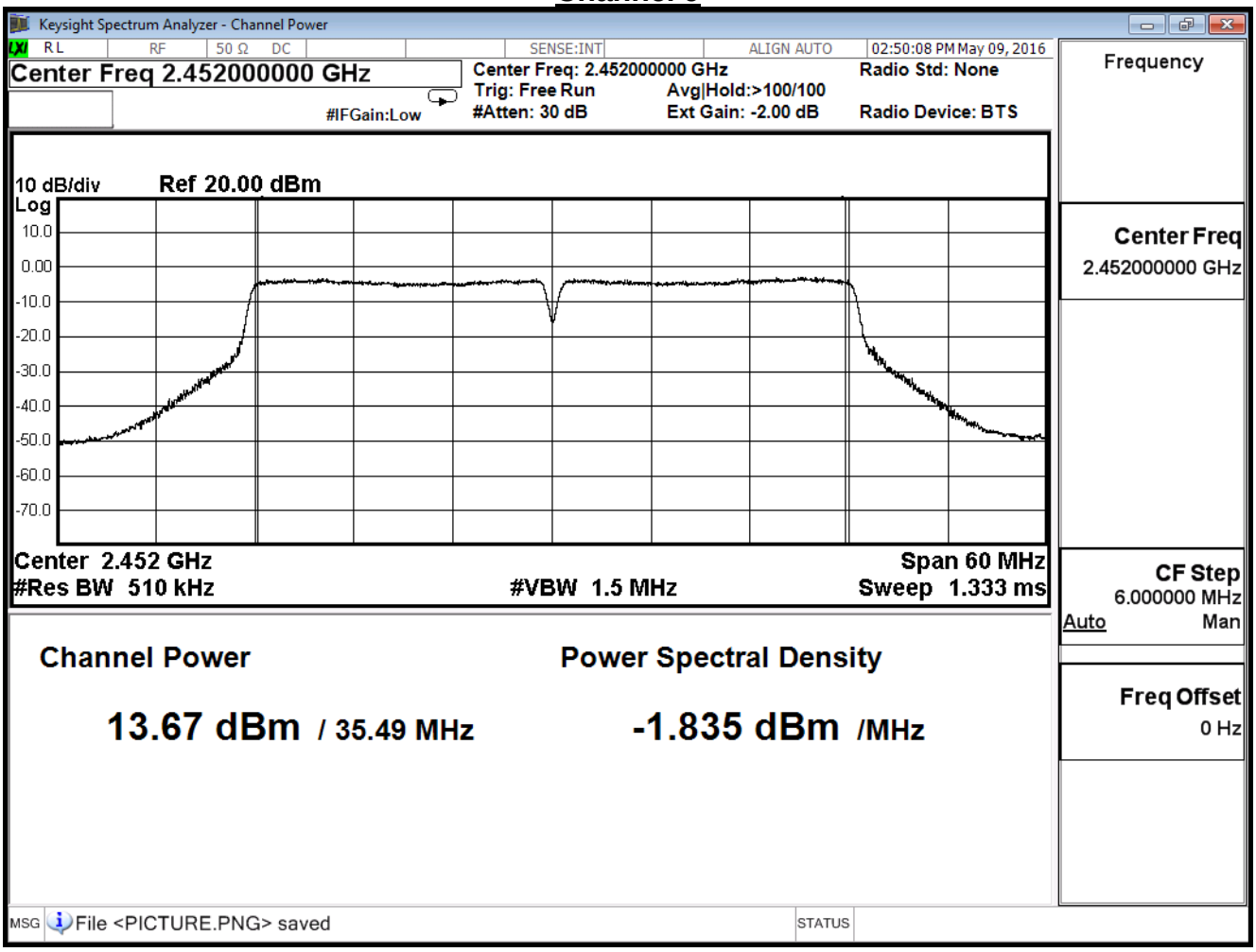
Channel 3


Keysight Spectrum Analyzer - Channel Power
RL
RF
50 Ω DC
SENSE:INT
ALIGN AUTO
02:47:40 PM May 09, 2016
Center Freq 2.422000000 GHz
#IFGain:Low
Center Freq: 2.422000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center Freq
2.422000000 GHz
Center 2.422 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1.333 ms
CF Step
6.000000 MHz
Auto
Man
Channel Power
13.33 dBm / 35.52 MHz
Power Spectral Density
-2.172 dBm /MHz
Freq Offset
0 Hz
MSG
STATUS

Channel 6


Keysight Spectrum Analyzer - Channel Power
RL
RF
50 Ω DC
SENSE:INT
ALIGN AUTO
02:48:48 PM May 09, 2016
Center Freq 2.437000000 GHz
Center Freq: 2.437000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#IFGain:Low
#Atten: 30 dB
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center Freq
2.437000000 GHz
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1.333 ms
CF Step
6.000000 MHz
Auto
Man
Channel Power
13.63 dBm / 35.49 MHz
Power Spectral Density
-1.868 dBm /MHz
Freq Offset
0 Hz
MSG
STATUS

Channel 9


Keysight Spectrum Analyzer - Channel Power
RL
RF
50 Ω DC
SENSE:INT
ALIGN AUTO
02:50:08 PM May 09, 2016
Center Freq 2.452000000 GHz
Center Freq: 2.452000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#IFGain:Low
#Atten: 30 dB
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Ref 20.00 dBm
Log
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center Freq
2.452000000 GHz
Center 2.452 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1.333 ms
CF Step
6.000000 MHz
Auto
Man
Channel Power
13.67 dBm / 35.49 MHz
Power Spectral Density
-1.835 dBm /MHz
Freq Offset
0 Hz
MSG
File <PICTURE.PNG> saved
STATUS

Product	Dual band AC1900 USB 3.0 Wi-Fi Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 3: Transmit_Beamforming Mode		
Date of Test	2016/05/10	Test Site	SR7

IEEE 802.11n_40M (ANT 2)

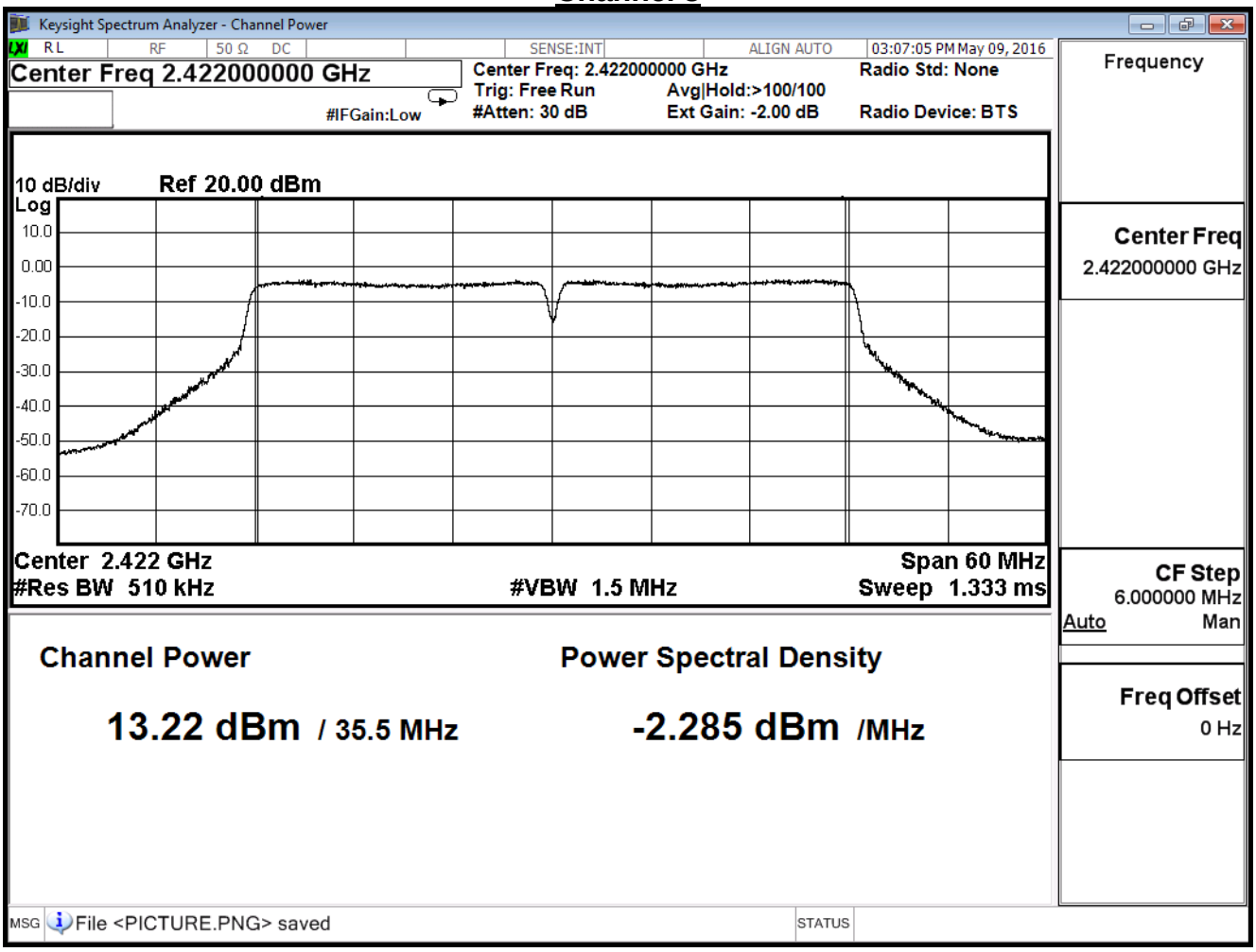
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	13.22	≦28.52
6	2437	13.74	≦28.52
9	2452	13.88	≦28.52

The worst emission of data rate is 40.5 Mbps.

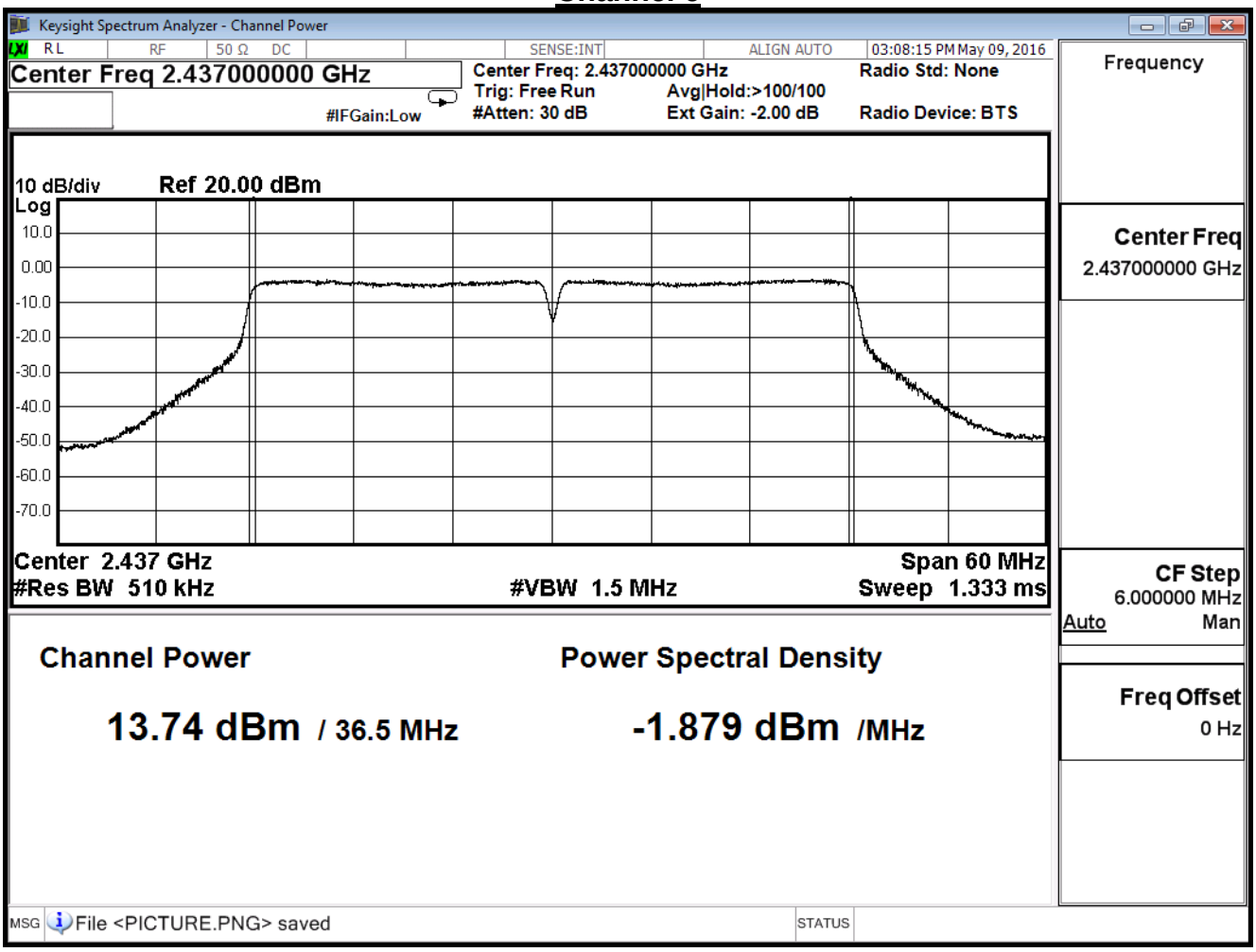
Peak Power Output (dBm)										
MCS Index		16	17	18	19	20	21	22	23	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		40.5	81.0	121.5	162.0	243.0	324.0	364.5	405.0	
3	2422	13.22	--	--	--	--	--	--	--	≦28.52
6	2437	13.74	13.54	13.32	13.22	12.98	12.74	12.50	12.26	≦28.52
9	2452	13.88	--	--	--	--	--	--	--	≦28.52

Total Gain: 10log(ANT N)+max Gain=2.71+4.77 = 7.48dBi
Limit=30-(7.48dBi-6dBi)=28.52 dBi

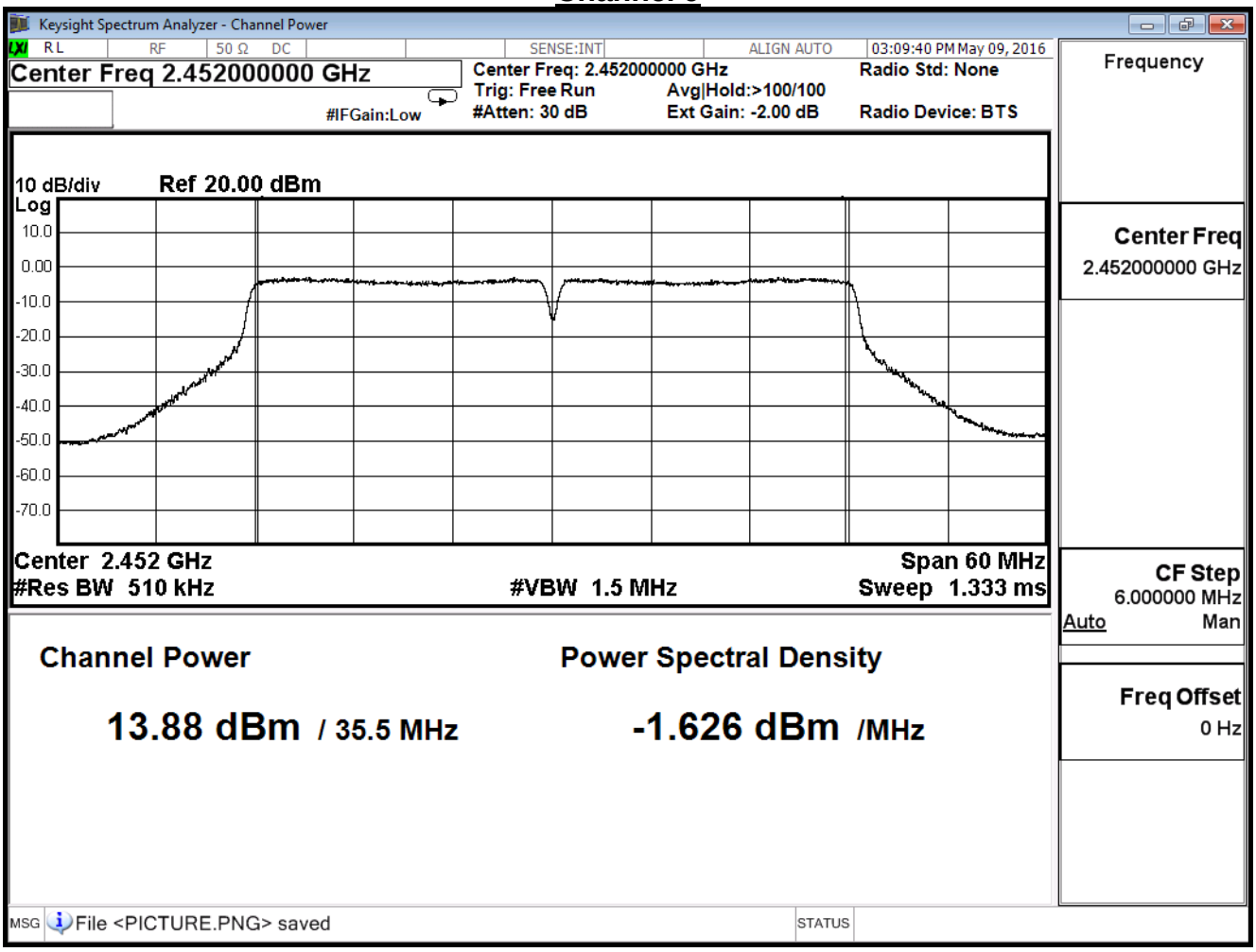
Channel 3


Keysight Spectrum Analyzer - Channel Power
RL
RF
50 Ω DC
SENSE:INT
ALIGN AUTO
03:07:05 PM May 09, 2016
Center Freq 2.422000000 GHz
#IFGain:Low
Center Freq: 2.422000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Ref 20.00 dBm
Log
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center Freq
2.422000000 GHz
Center 2.422 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1.333 ms
CF Step
6.000000 MHz
Auto
Man
Channel Power
13.22 dBm / 35.5 MHz
Power Spectral Density
-2.285 dBm /MHz
Freq Offset
0 Hz
MSG
File <PICTURE.PNG> saved
STATUS

Channel 6


Keysight Spectrum Analyzer - Channel Power
RL
RF
50 Ω DC
SENSE:INT
ALIGN AUTO
03:08:15 PM May 09, 2016
Center Freq 2.437000000 GHz
Center Freq: 2.437000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#IFGain:Low
#Atten: 30 dB
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Ref 20.00 dBm
Log
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center Freq
2.437000000 GHz
Center 2.437 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1.333 ms
CF Step
6.000000 MHz
Auto
Man
Channel Power
13.74 dBm / 36.5 MHz
Power Spectral Density
-1.879 dBm /MHz
Freq Offset
0 Hz
MSG
File <PICTURE.PNG> saved
STATUS

Channel 9


Keysight Spectrum Analyzer - Channel Power
RL
RF
50 Ω DC
SENSE:INT
ALIGN AUTO
03:09:40 PM May 09, 2016
Center Freq 2.452000000 GHz
#IFGain:Low
Center Freq: 2.452000000 GHz
Trig: Free Run
Avg|Hold:>100/100
#Atten: 30 dB
Ext Gain: -2.00 dB
Radio Std: None
Radio Device: BTS
Frequency
10 dB/div
Ref 20.00 dBm
Log
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center Freq
2.452000000 GHz
Center 2.452 GHz
#Res BW 510 kHz
#VBW 1.5 MHz
Span 60 MHz
Sweep 1.333 ms
CF Step
6.000000 MHz
Auto
Man
Channel Power
13.88 dBm / 35.5 MHz
Power Spectral Density
-1.626 dBm /MHz
Freq Offset
0 Hz
MSG
File <PICTURE.PNG> saved
STATUS

Product	Dual band AC1900 USB 3.0 Wi-Fi Adapter		
Test Item	Peak Power Output		
Test Mode	Mode 3: Transmit_Beamforming Mode		
Date of Test	2016/05/10	Test Site	SR7

IEEE 802.11n_40M (ANT 0+1+2)

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)
3	2422	18.05	≦28.52
6	2437	18.29	≦28.52
9	2452	18.26	≦28.52

The worst emission of data rate is 40.5 Mbps.

Peak Power Output (dBm)										
MCS Index		16	17	18	19	20	21	22	23	Required Limit
Channel No	Frequency (MHz)	Data Rate								
		40.5	81.0	121.5	162.0	243.0	324.0	364.5	405.0	
3	2422	18.05	--	--	--	--	--	--	--	≦28.52
6	2437	18.29	18.12	17.97	17.79	17.64	17.44	17.23	17.07	≦28.52
9	2452	18.26	--	--	--	--	--	--	--	≦28.52

Total Gain: 10log(ANT N)+max Gain=2.71+4.77 = 7.48dBi
Limit=30-(7.48dBi-6dBi)=28.52 dBi

4. Radiated Emission

4.1. Test Equipment

The following test equipments are used during the test:

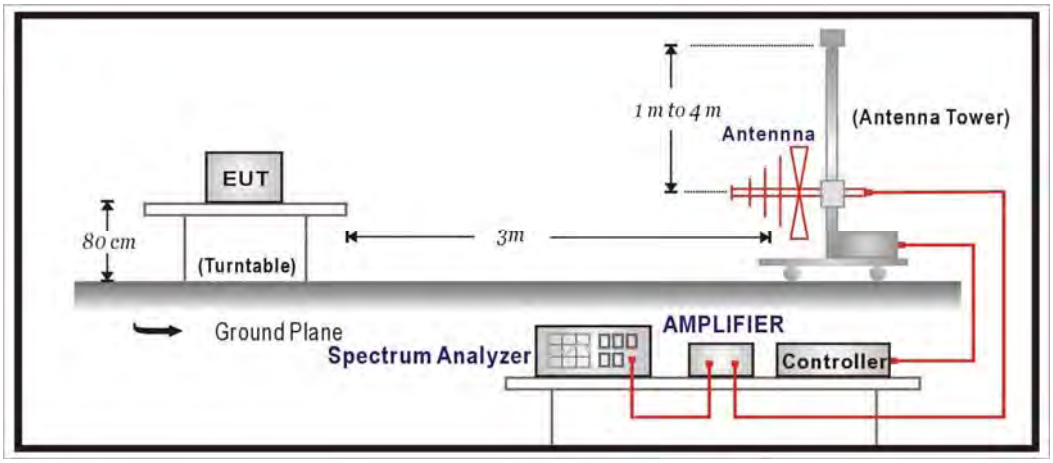
Radiated Emission / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Bilog Antenna	Schaffner	CBL6112B	2895	2016/08/14
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

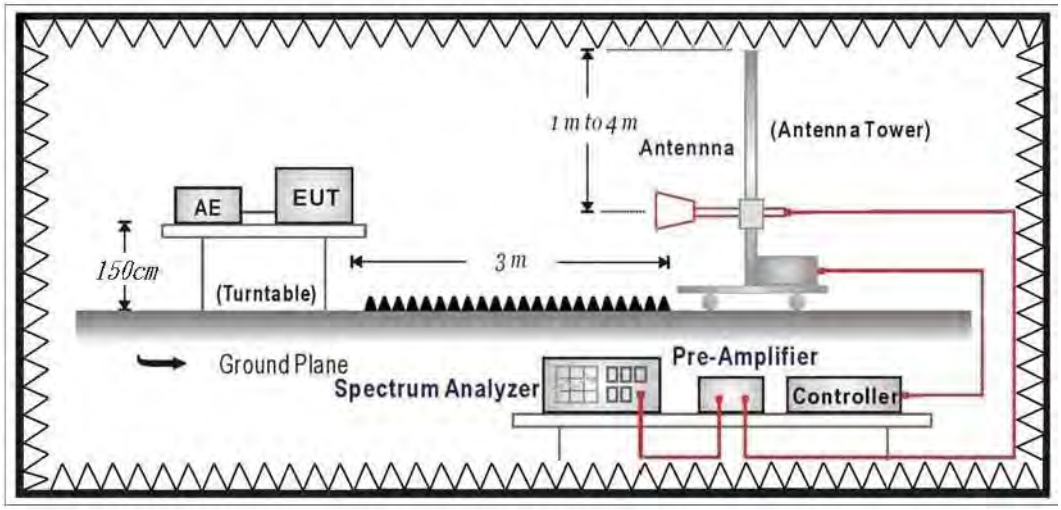
Note: All equipments that need to calibrate are with calibration period of 1 year.

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

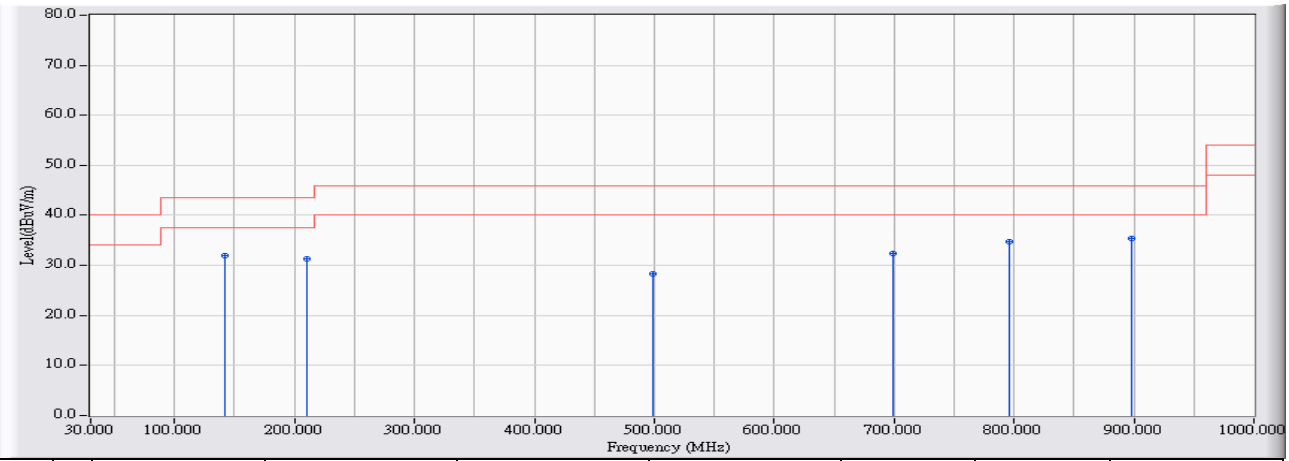
4.6. Uncertainty

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

4.7. Test Result

30MHz-1GHz Spurious

Site : CB1	**Time : 2016/03/25 - 16:57**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual band AC1900 USB 3.0 Wi-Fi Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11b 2437MHz**

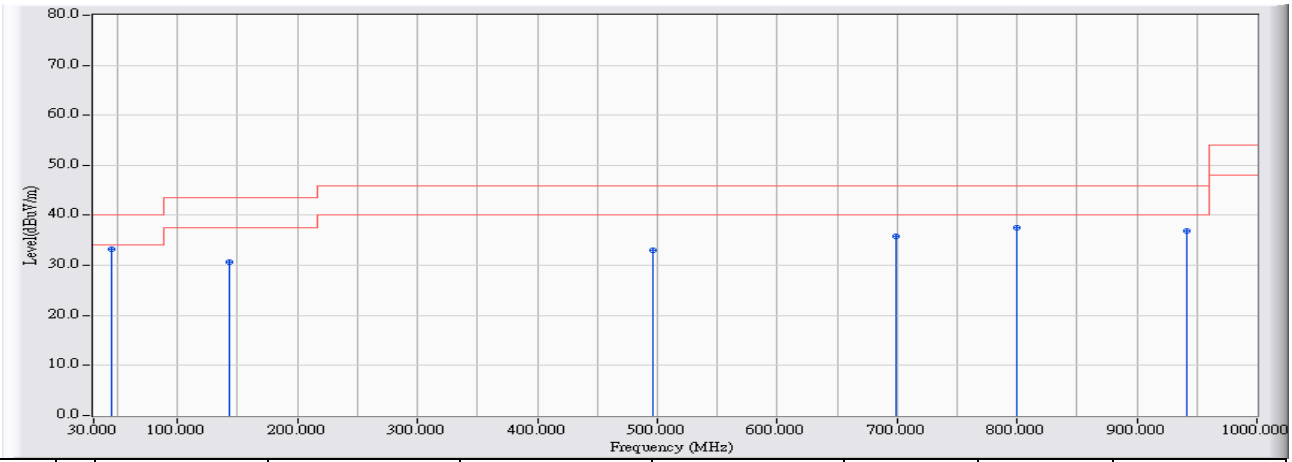


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		141.442	16.309	15.717	32.027	-11.473	43.500	QUASIPEAK
2		210.499	12.374	18.912	31.286	-12.214	43.500	QUASIPEAK
3		498.463	17.734	10.596	28.330	-17.670	46.000	QUASIPEAK
4		699.233	21.052	11.272	32.324	-13.676	46.000	QUASIPEAK
5		796.514	22.280	12.429	34.709	-11.291	46.000	QUASIPEAK
6	*	897.869	23.428	11.909	35.337	-10.663	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 : 2016/03/25 - 16:55**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual band AC1900 USB 3.0 Wi-Fi Adapter	**Note : Mode 1: Transmit_SISO Mode** **802.11b 2437MHz**

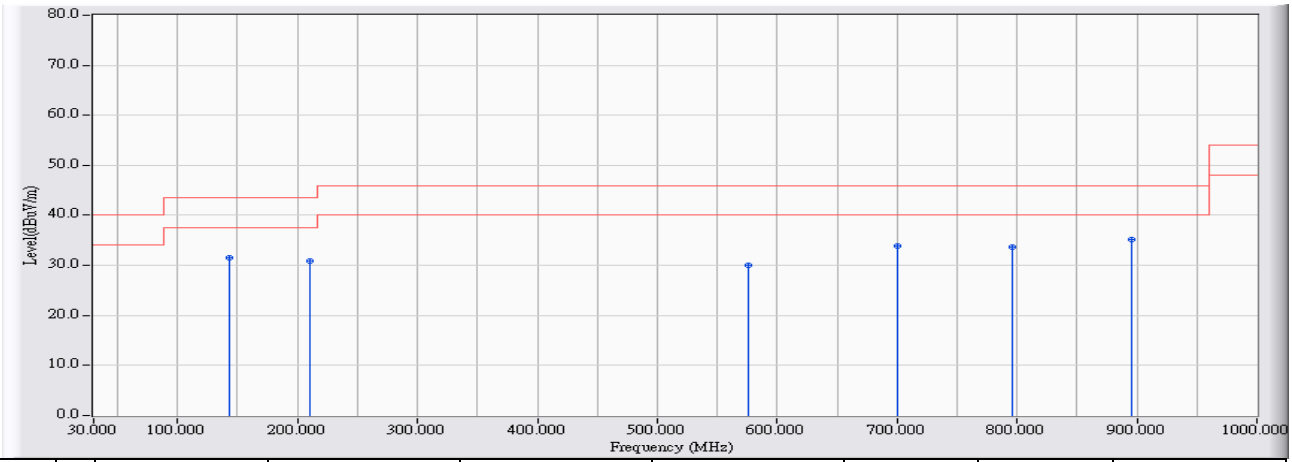


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	44.743	12.011	21.171	33.183	-6.817	40.000	QUASIPEAK
2		143.285	16.626	14.002	30.628	-12.872	43.500	QUASIPEAK
3		496.911	17.716	15.371	33.087	-12.913	46.000	QUASIPEAK
4		699.524	21.056	14.744	35.800	-10.200	46.000	QUASIPEAK
5		799.715	22.321	15.130	37.450	-8.550	46.000	QUASIPEAK
6		941.806	23.852	13.077	36.929	-9.071	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 : 2016/03/25 - 16:58**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual band AC1900 USB 3.0 Wi-Fi Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11g 2437MHz**

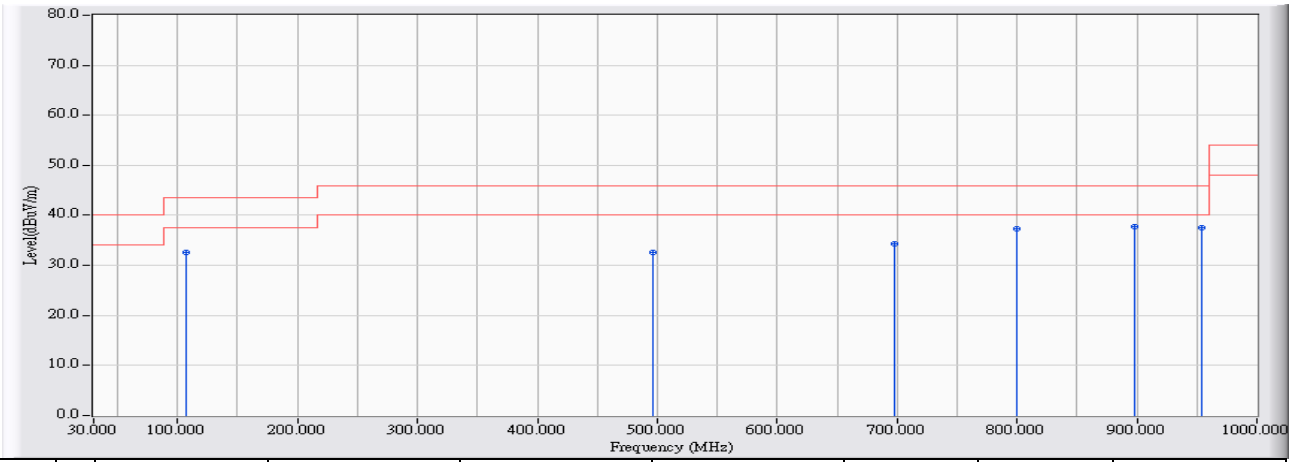


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		143.285	16.626	14.841	31.467	-12.033	43.500	QUASIPEAK
2		209.917	12.382	18.542	30.924	-12.576	43.500	QUASIPEAK
3		576.152	19.238	10.716	29.954	-16.046	46.000	QUASIPEAK
4		700.203	21.065	12.756	33.821	-12.179	46.000	QUASIPEAK
5		796.514	22.280	11.365	33.645	-12.355	46.000	QUASIPEAK
6	*	896.026	23.408	11.778	35.185	-10.815	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 : 2016/03/25 - 17:00**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual band AC1900 USB 3.0 Wi-Fi Adapter	**Note : Mode 1: Transmit_SISO Mode** **802.11g 2437MHz**

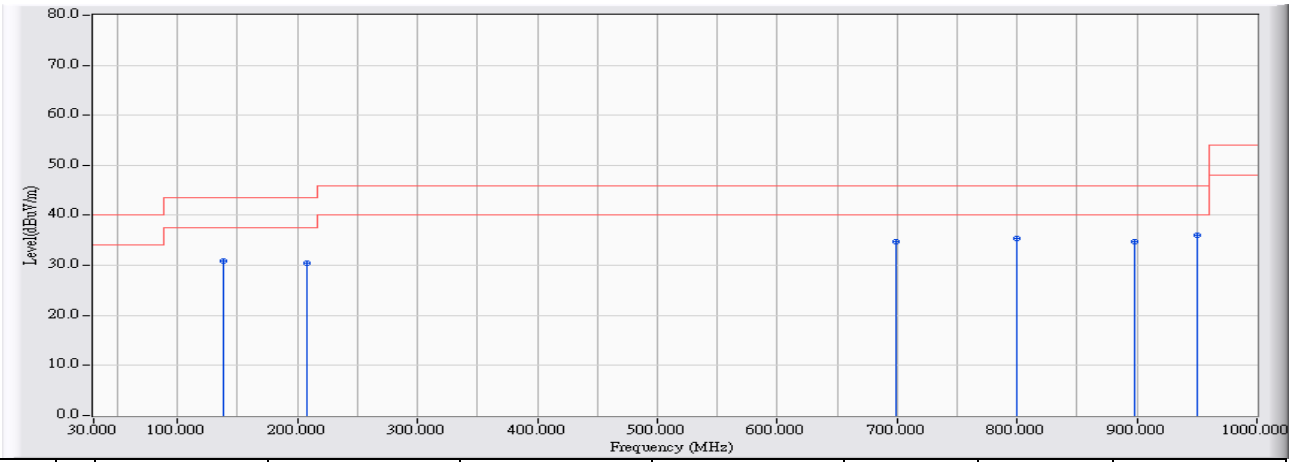


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		107.107	12.559	20.063	32.623	-10.877	43.500	QUASIPEAK
2		496.620	17.713	14.943	32.655	-13.345	46.000	QUASIPEAK
3		697.390	21.027	13.273	34.300	-11.700	46.000	QUASIPEAK
4		799.812	22.322	14.950	37.271	-8.729	46.000	QUASIPEAK
5	*	898.451	23.435	14.416	37.851	-8.149	46.000	QUASIPEAK
6		954.512	23.974	13.532	37.506	-8.494	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 : 2016/03/25 - 17:03**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual band AC1900 USB 3.0 Wi-Fi Adapter	**Note : Mode 2: Transmit_MIMO Mode 802.11n(20M) 2437MHz**

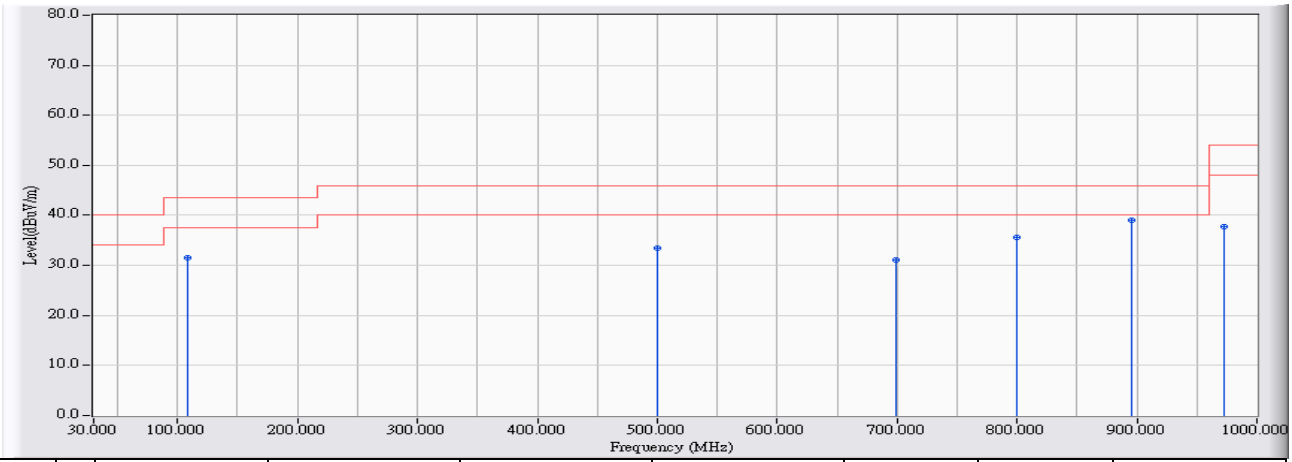


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		138.532	15.792	15.055	30.847	-12.653	43.500	QUASIPEAK
2		207.977	12.408	17.986	30.394	-13.106	43.500	QUASIPEAK
3		698.457	21.041	13.710	34.752	-11.248	46.000	QUASIPEAK
4		799.521	22.317	13.000	35.318	-10.682	46.000	QUASIPEAK
5		898.451	23.435	11.301	34.736	-11.264	46.000	QUASIPEAK
6	*	950.729	23.938	11.988	35.926	-10.074	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 : 2016/03/25 - 17:01**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual band AC1900 USB 3.0 Wi-Fi Adapter	**Note : Mode 2: Transmit_MIMO Mode 802.11n(20M) 2437MHz**

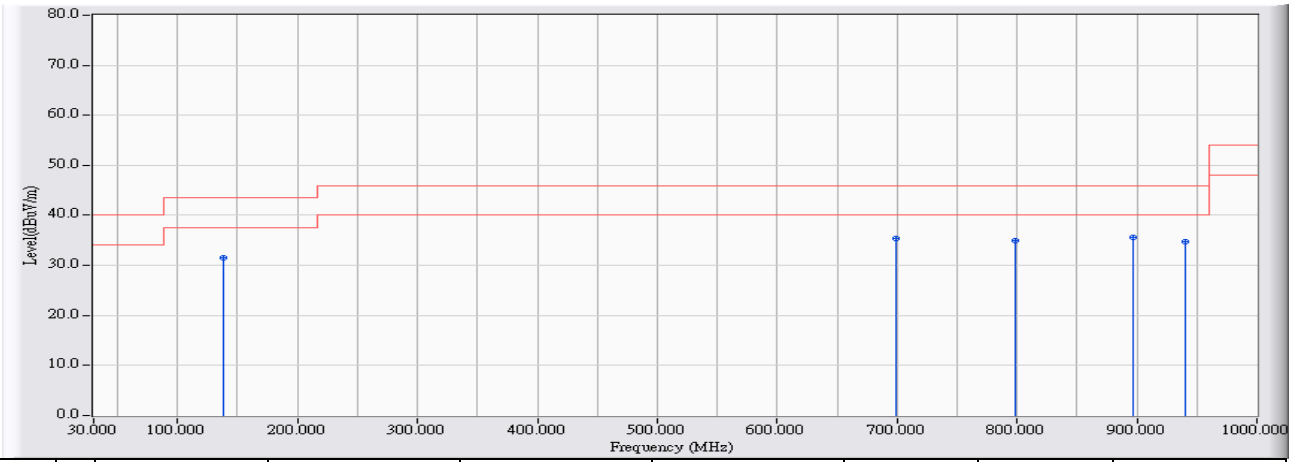


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		107.980	12.563	18.971	31.534	-11.966	43.500	QUASIPEAK
2		499.918	17.754	15.794	33.547	-12.453	46.000	QUASIPEAK
3		698.457	21.041	10.152	31.194	-14.806	46.000	QUASIPEAK
4		799.618	22.319	13.277	35.596	-10.404	46.000	QUASIPEAK
5	*	894.960	23.396	15.636	39.031	-6.969	46.000	QUASIPEAK
6		973.134	24.152	13.497	37.649	-16.351	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 : 2016/03/25 - 17:05**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_30M-1G-4_9161 - HORIZONTAL	**Power : AC 120V/60Hz**
EUT : Dual band AC1900 USB 3.0 Wi-Fi Adapter	**Note : Mode 2: Transmit_MIMO Mode 802.11n(40M) 2437MHz**

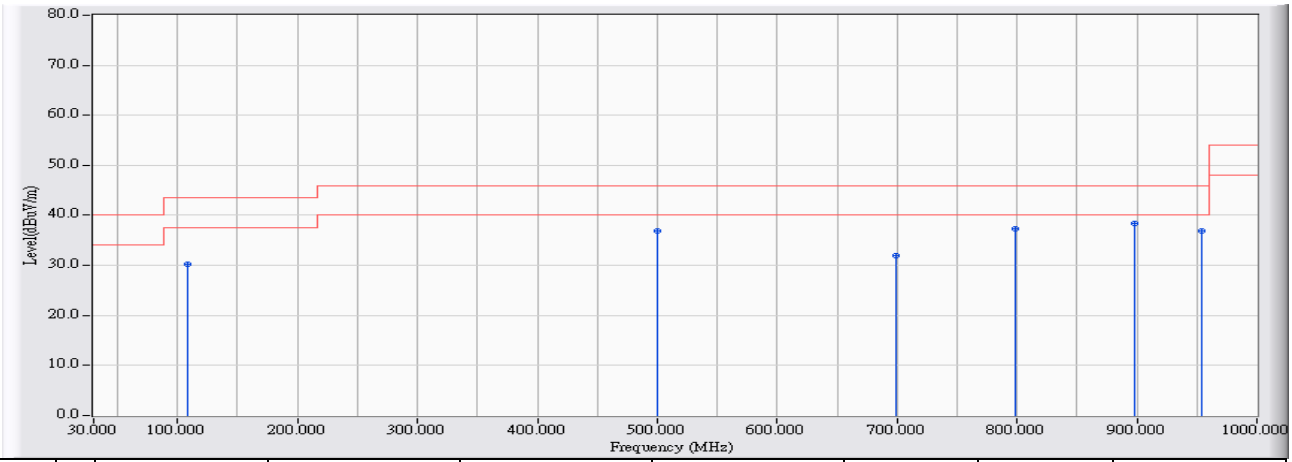


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		138.338	15.757	15.817	31.574	-11.926	43.500	QUASIPEAK
2		698.942	21.048	14.360	35.408	-10.592	46.000	QUASIPEAK
3		798.745	22.308	12.672	34.980	-11.020	46.000	QUASIPEAK
4	*	896.996	23.419	12.098	35.516	-10.484	46.000	QUASIPEAK
5		940.060	23.836	10.857	34.692	-11.308	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 : 2016/03/25 - 17:07**
Limit : FCC_CLASS_B_03M_QP	**Margin : 6**
Probe : CB1_FCC_30M-1G-4_9161 - VERTICAL	**Power : AC 120V/60Hz**
EUT : Dual band AC1900 USB 3.0 Wi-Fi Adapter	**Note : Mode 2: Transmit_MIMO Mode 802.11n(40M) 2437MHz**



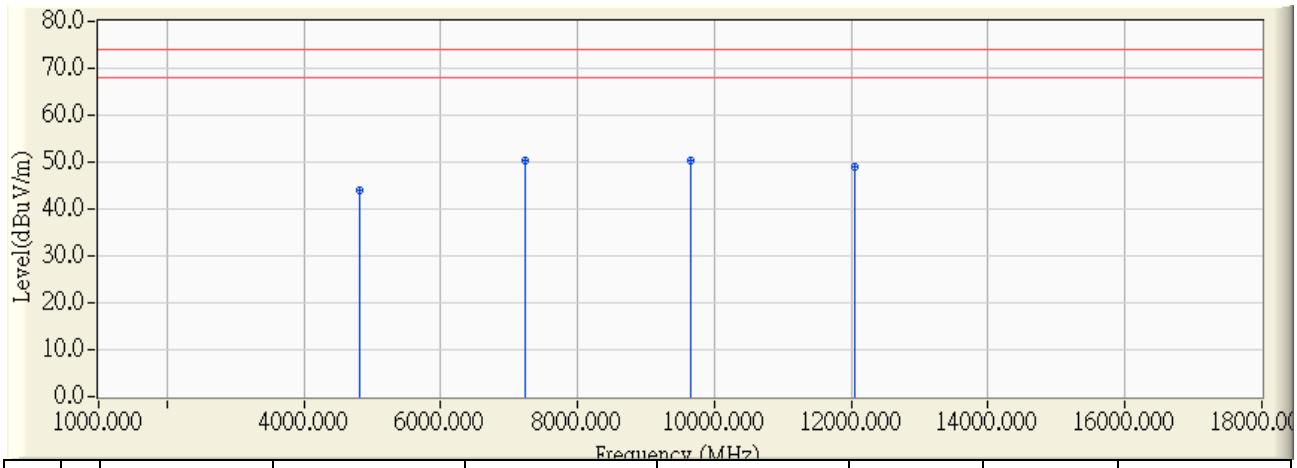
		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		107.883	12.563	17.748	30.310	-13.190	43.500	QUASIPEAK
2		499.530	17.747	19.095	36.842	-9.158	46.000	QUASIPEAK
3		698.942	21.048	10.937	31.985	-14.015	46.000	QUASIPEAK
4		798.163	22.301	15.034	37.335	-8.665	46.000	QUASIPEAK
5	*	898.548	23.436	14.922	38.358	-7.642	46.000	QUASIPEAK
6		954.221	23.971	12.966	36.937	-9.063	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 : 2015/12/14 - 10:59**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC120V / 60Hz**
EUT : Dual band AC1900 USB 3.0 Wi-Fi Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11b 2412MHz**

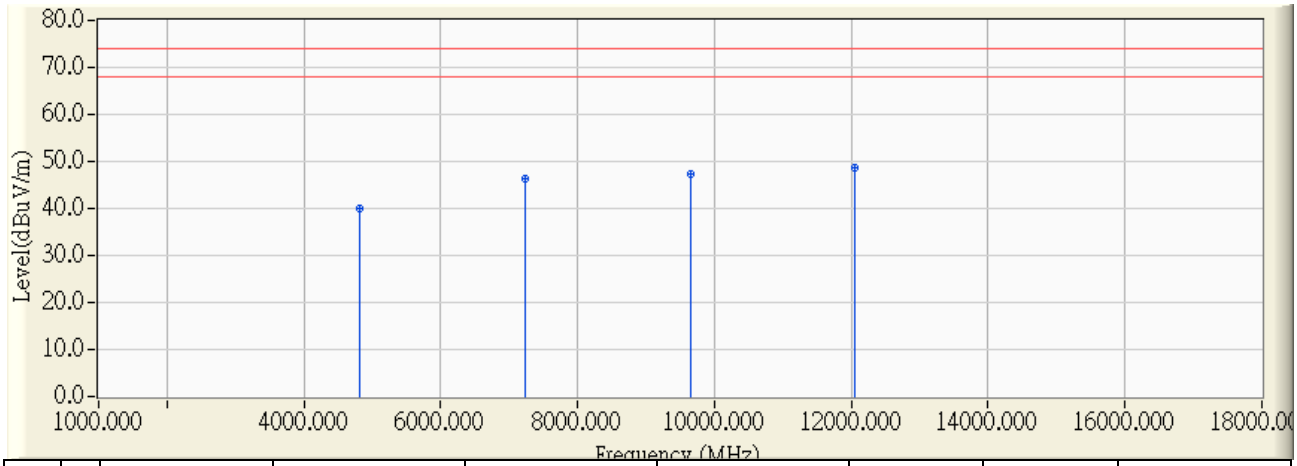


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	-2.559	46.570	44.011	-29.989	74.000	PEAK
2	*	7236.000	5.926	44.550	50.476	-23.524	74.000	PEAK
3		9648.000	7.659	42.720	50.379	-23.621	74.000	PEAK
4		12060.000	10.338	38.660	48.997	-25.003	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 : 2015/12/14 - 10:47**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC120V / 60Hz**
EUT : Dual band AC1900 USB 3.0 Wi-Fi Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11b 2412MHz**

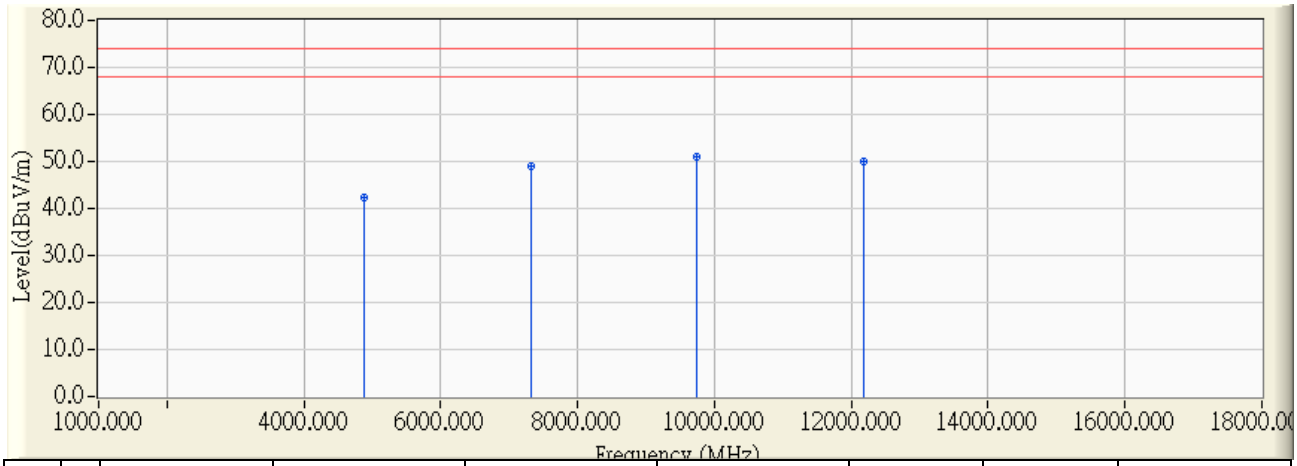


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	-1.662	41.750	40.088	-33.912	74.000	PEAK
2		7236.000	5.426	40.950	46.376	-27.624	74.000	PEAK
3		9648.000	7.162	40.310	47.471	-26.529	74.000	PEAK
4	*	12060.000	9.915	38.790	48.704	-25.296	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 : 2015/12/14 - 11:08**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC120V / 60Hz**
EUT : Dual band AC1900 USB 3.0 Wi-Fi Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11b 2437MHz**

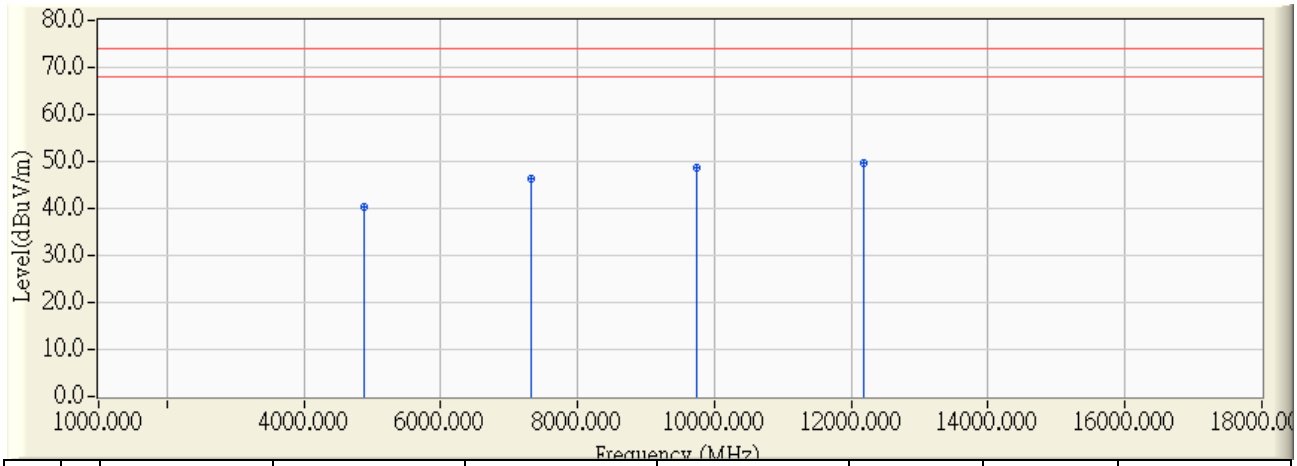


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-2.425	44.710	42.285	-31.715	74.000	PEAK
2		7311.000	6.073	42.840	48.913	-25.087	74.000	PEAK
3	*	9748.000	8.200	42.780	50.980	-23.020	74.000	PEAK
4		12185.000	10.188	39.700	49.888	-24.112	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 : 2015/12/14 - 11:16**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC120V / 60Hz**
EUT : Dual band AC1900 USB 3.0 Wi-Fi Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11b 2437MHz**

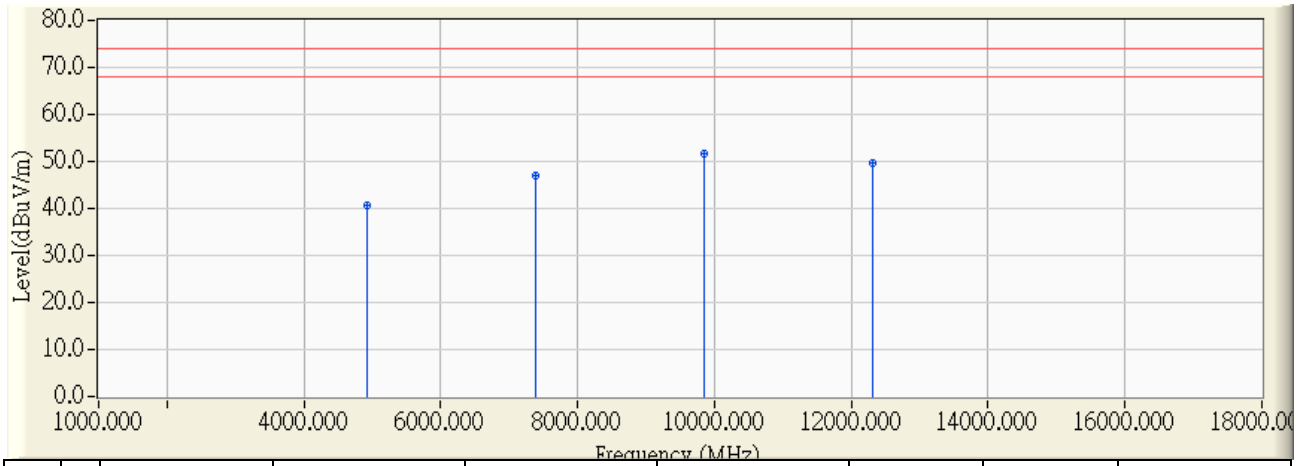


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-1.653	42.120	40.467	-33.533	74.000	PEAK
2		7311.000	5.573	40.670	46.243	-27.757	74.000	PEAK
3		9748.000	7.552	41.060	48.613	-25.387	74.000	PEAK
4	*	12185.000	9.890	39.610	49.500	-24.500	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 : 2015/12/14 - 11:40**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC120V / 60Hz**
EUT : Dual band AC1900 USB 3.0 Wi-Fi Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11b 2462MHz**

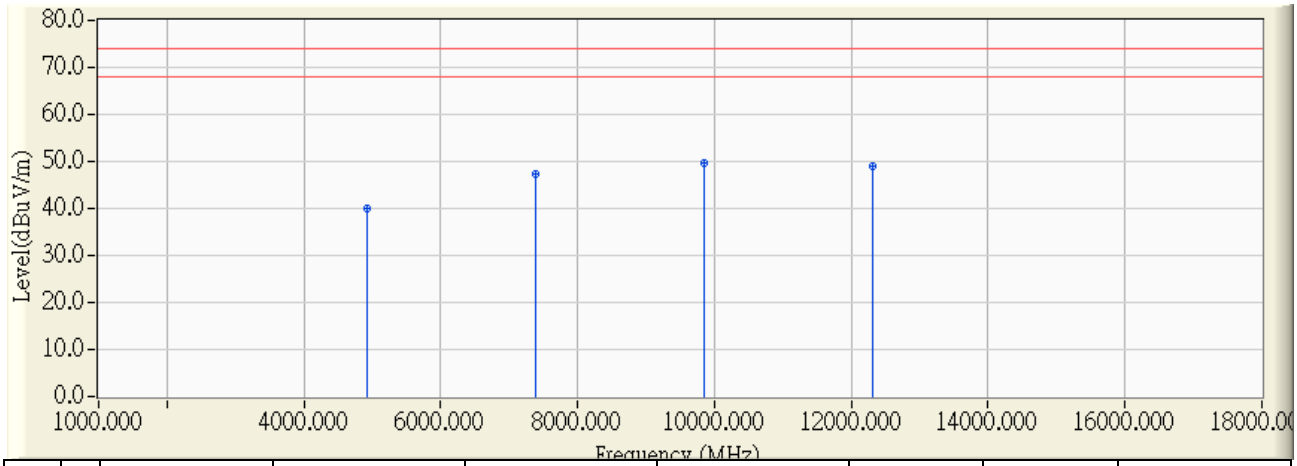


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	-2.291	43.000	40.709	-33.291	74.000	PEAK
2		7386.000	6.221	40.890	47.111	-26.889	74.000	PEAK
3	*	9848.000	8.742	42.780	51.522	-22.478	74.000	PEAK
4		12310.000	10.040	39.590	49.629	-24.371	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 : 2015/12/14 - 11:32**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC120V / 60Hz**
EUT : Dual band AC1900 USB 3.0 Wi-Fi Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11b 2462MHz**

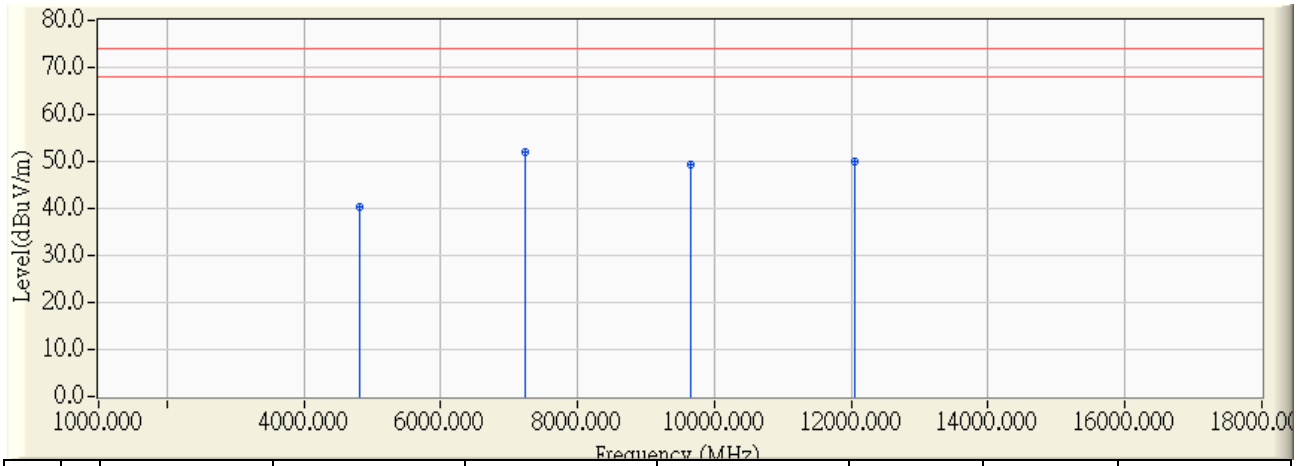


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	-1.644	41.670	40.026	-33.974	74.000	PEAK
2		7386.000	5.721	41.660	47.381	-26.619	74.000	PEAK
3	*	9848.000	7.944	41.660	49.604	-24.396	74.000	PEAK
4		12310.000	9.867	39.250	49.116	-24.884	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 : 2015/12/14 - 13:38**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC120V / 60Hz**
EUT : Dual band AC1900 USB 3.0 Wi-Fi Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11g 2412MHz**

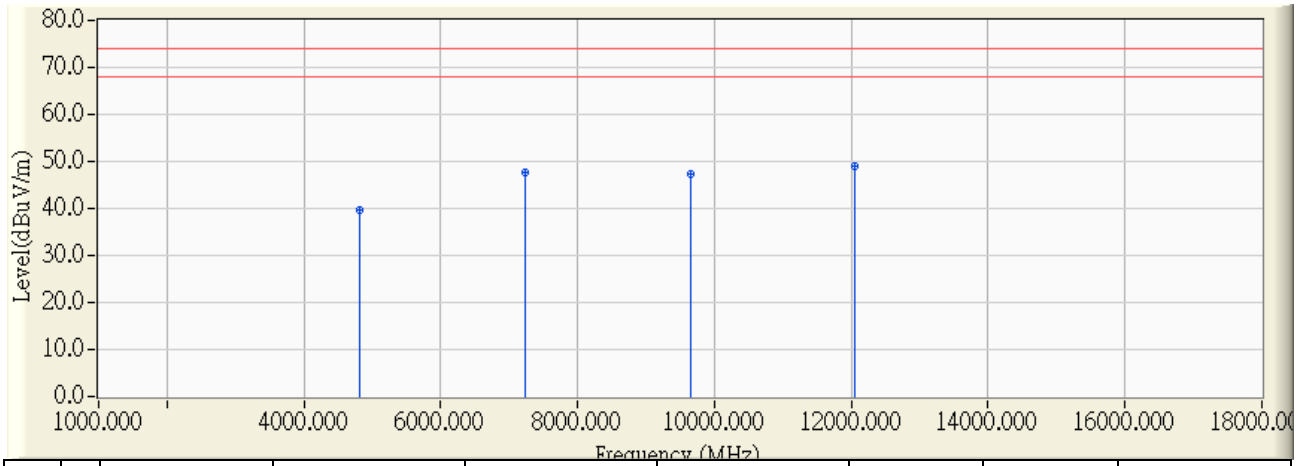


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	-2.559	42.870	40.311	-33.689	74.000	PEAK
2	*	7236.000	5.926	46.020	51.946	-22.054	74.000	PEAK
3		9648.000	7.659	41.800	49.459	-24.541	74.000	PEAK
4		12060.000	10.338	39.820	50.157	-23.843	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 : 2015/12/14 - 13:44**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC120V / 60Hz**
EUT : Dual band AC1900 USB 3.0 Wi-Fi Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11g 2412MHz**

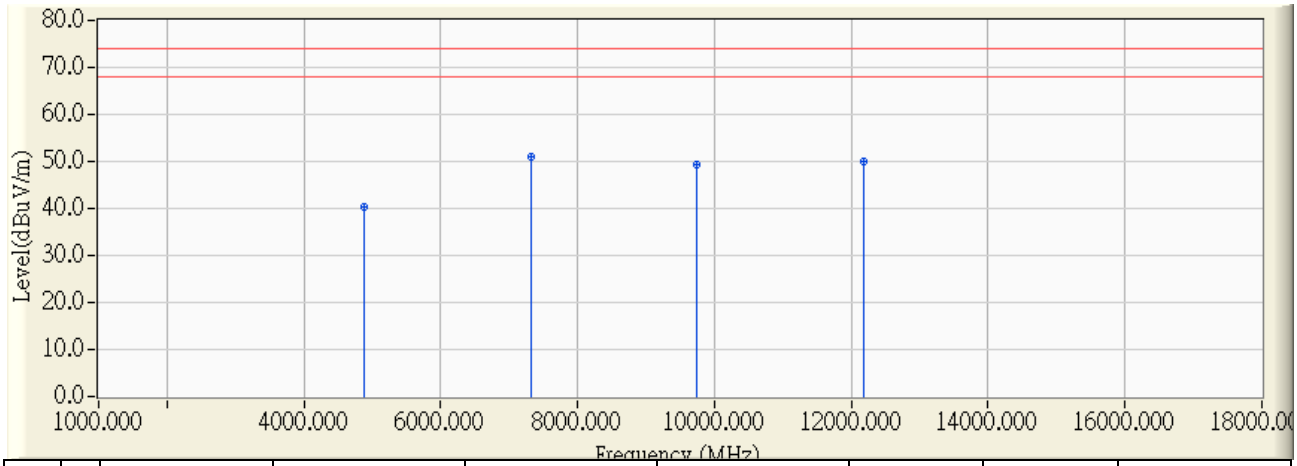


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	-1.662	41.420	39.758	-34.242	74.000	PEAK
2		7236.000	5.426	42.370	47.796	-26.204	74.000	PEAK
3		9648.000	7.162	40.330	47.491	-26.509	74.000	PEAK
4	*	12060.000	9.915	39.040	48.954	-25.046	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 : 2015/12/14 - 13:34**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC120V / 60Hz**
EUT : Dual band AC1900 USB 3.0 Wi-Fi Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11g 2437MHz**

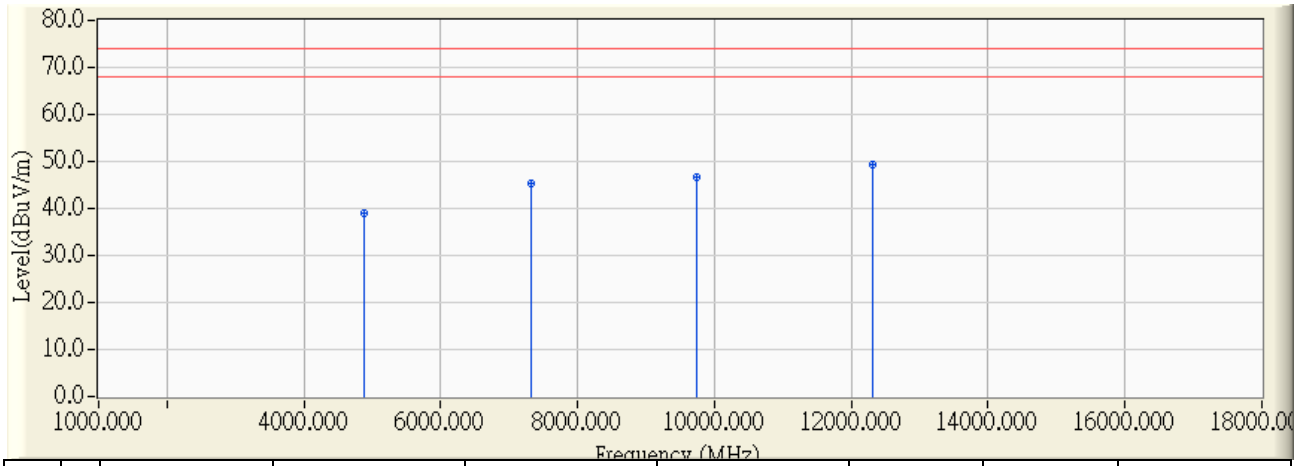


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-2.425	42.820	40.395	-33.605	74.000	PEAK
2	*	7311.000	6.073	44.800	50.873	-23.127	74.000	PEAK
3		9748.000	8.200	41.170	49.370	-24.630	74.000	PEAK
4		12185.000	10.188	39.840	50.028	-23.972	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 : 2015/12/14 - 13:31**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC120V / 60Hz**
EUT : Dual band AC1900 USB 3.0 Wi-Fi Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11g 2437MHz**

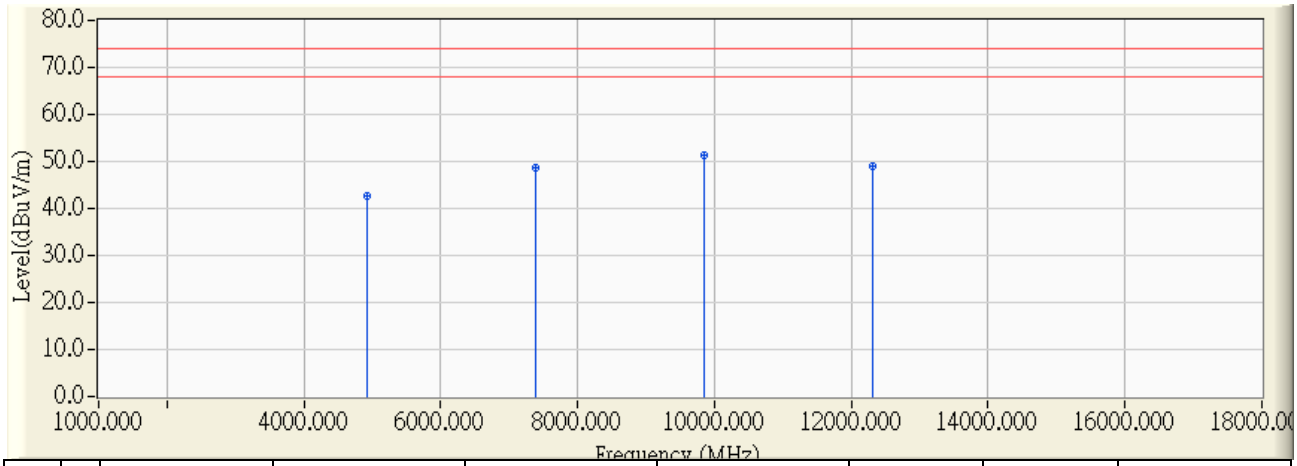


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-1.653	40.650	38.997	-35.003	74.000	PEAK
2		7311.000	5.573	39.620	45.193	-28.807	74.000	PEAK
3		9748.000	7.552	39.250	46.803	-27.197	74.000	PEAK
4	*	12310.000	9.867	39.480	49.346	-24.654	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 : 2015/12/14 - 11:54**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC120V / 60Hz**
EUT : Dual band AC1900 USB 3.0 Wi-Fi Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11g 2462MHz**

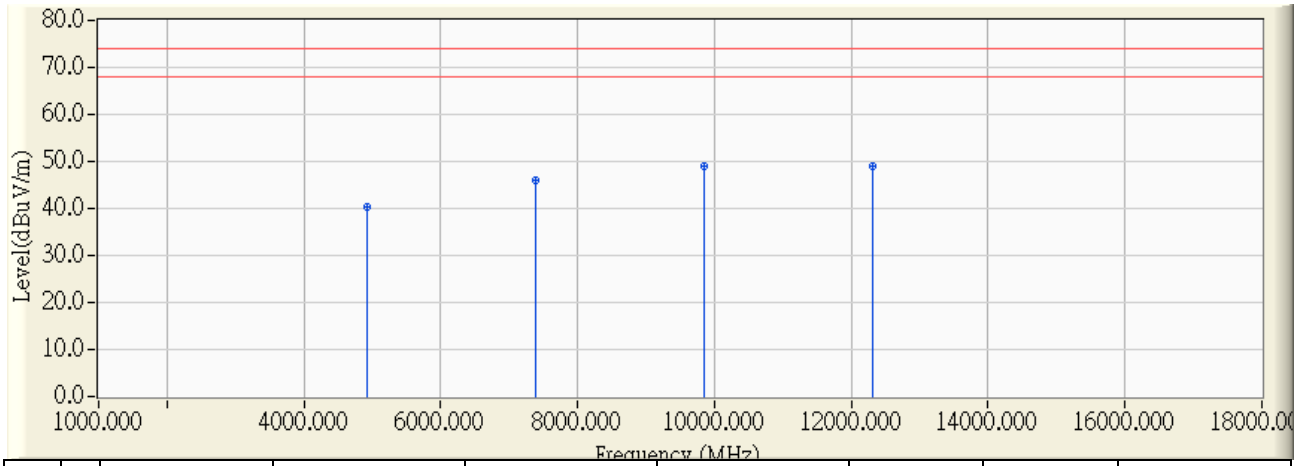


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	-2.291	44.820	42.529	-31.471	74.000	PEAK
2		7386.000	6.221	42.450	48.671	-25.329	74.000	PEAK
3	*	9848.000	8.742	42.730	51.472	-22.528	74.000	PEAK
4		12310.000	10.040	39.030	49.069	-24.931	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 : 2015/12/14 - 13:21**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC120V / 60Hz**
EUT : Dual band AC1900 USB 3.0 Wi-Fi Adapter	**Note : Mode 1: Transmit_SISO Mode 802.11g 2462MHz**

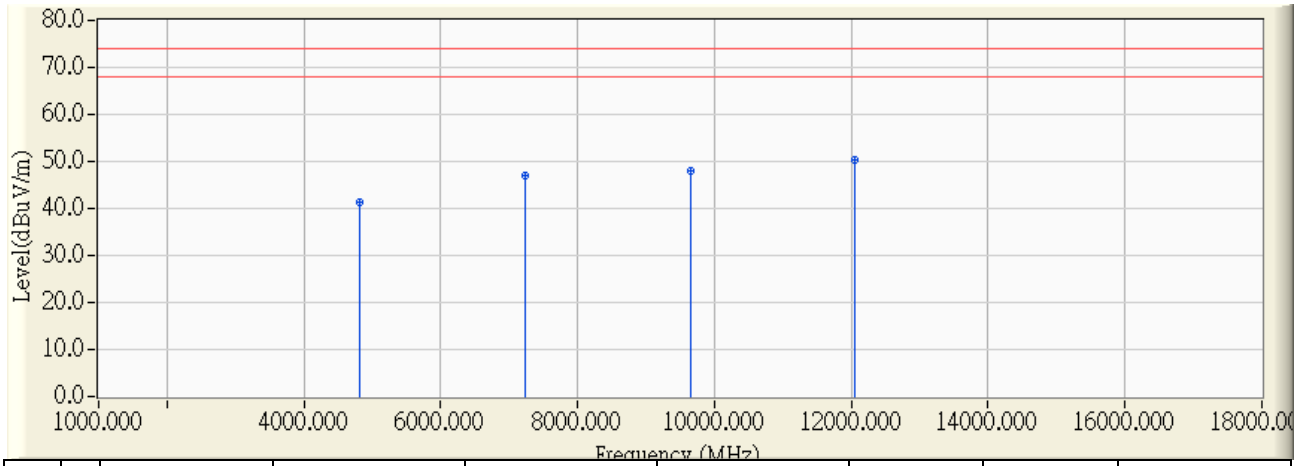


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	-1.644	42.010	40.366	-33.634	74.000	PEAK
2		7386.000	5.721	40.410	46.131	-27.869	74.000	PEAK
3		9848.000	7.944	41.180	49.124	-24.876	74.000	PEAK
4	*	12310.000	9.867	39.280	49.146	-24.854	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 : 2015/12/14 - 13:51**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC120V / 60Hz**
EUT : Dual band AC1900 USB 3.0 Wi-Fi Adapter	**Note : Mode 2: Transmit_MIMO Mode 802.11n(20M) 2412MHz**

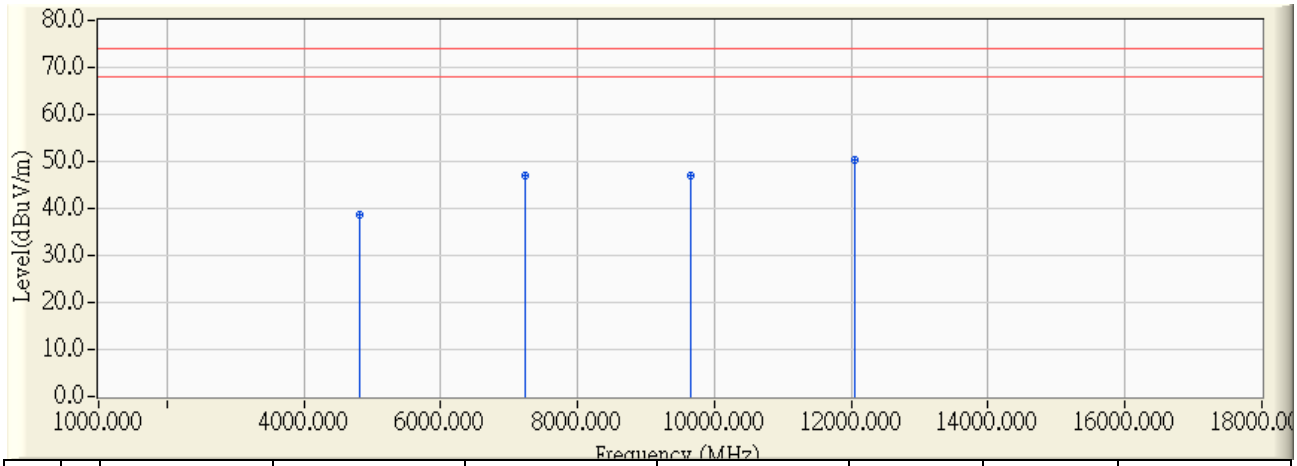


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	-2.559	43.840	41.281	-32.719	74.000	PEAK
2		7236.000	5.926	41.200	47.126	-26.874	74.000	PEAK
3		9648.000	7.659	40.380	48.039	-25.961	74.000	PEAK
4	*	12060.000	10.338	40.080	50.417	-23.583	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 : 2015/12/14 - 13:48**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC120V / 60Hz**
EUT : Dual band AC1900 USB 3.0 Wi-Fi Adapter	**Note : Mode 2: Transmit_MIMO Mode 802.11n(20M) 2412MHz**

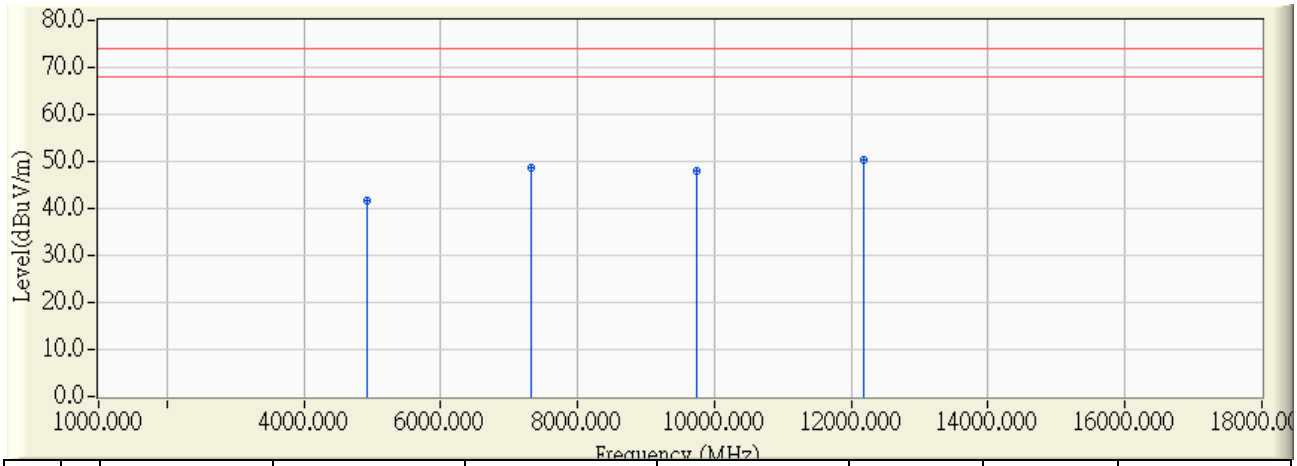


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4824.000	-1.662	40.370	38.708	-35.292	74.000	PEAK
2		7236.000	5.426	41.410	46.836	-27.164	74.000	PEAK
3		9648.000	7.162	39.950	47.111	-26.889	74.000	PEAK
4	*	12060.000	9.915	40.320	50.234	-23.766	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 : 2015/12/14 - 14:05**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC120V / 60Hz**
EUT : Dual band AC1900 USB 3.0 Wi-Fi Adapter	**Note : Mode 2: Transmit_MIMO Mode 802.11n(20M) 2437MHz**

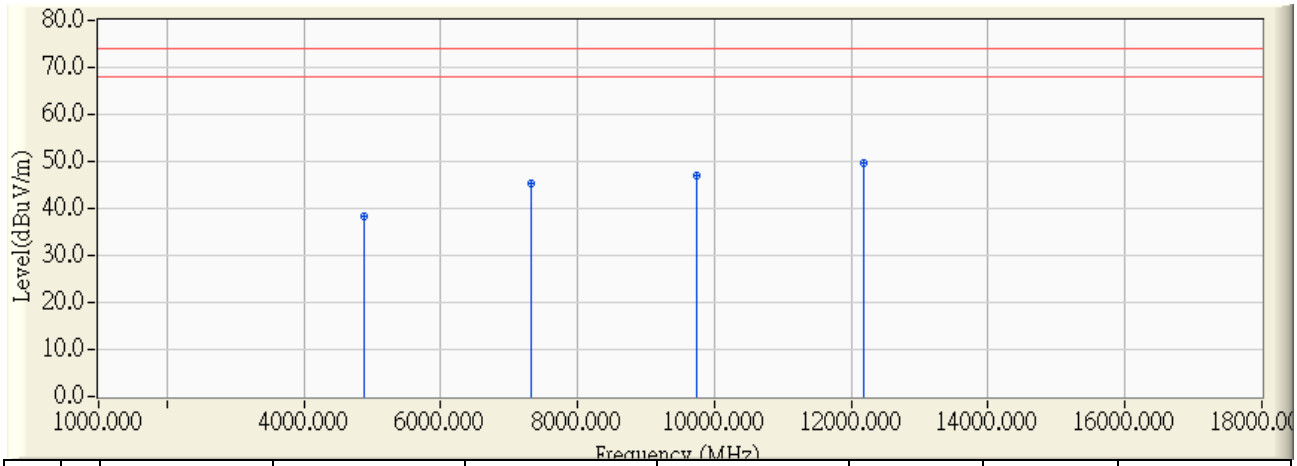


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	-2.291	43.960	41.669	-32.331	74.000	PEAK
2		7311.000	6.073	42.700	48.773	-25.227	74.000	PEAK
3		9748.000	8.200	39.660	47.860	-26.140	74.000	PEAK
4	*	12185.000	10.188	40.210	50.398	-23.602	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 : 2015/12/14 - 14:09**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC120V / 60Hz**
EUT : Dual band AC1900 USB 3.0 Wi-Fi Adapter	**Note : Mode 2: Transmit_MIMO Mode 802.11n(20M) 2437MHz**

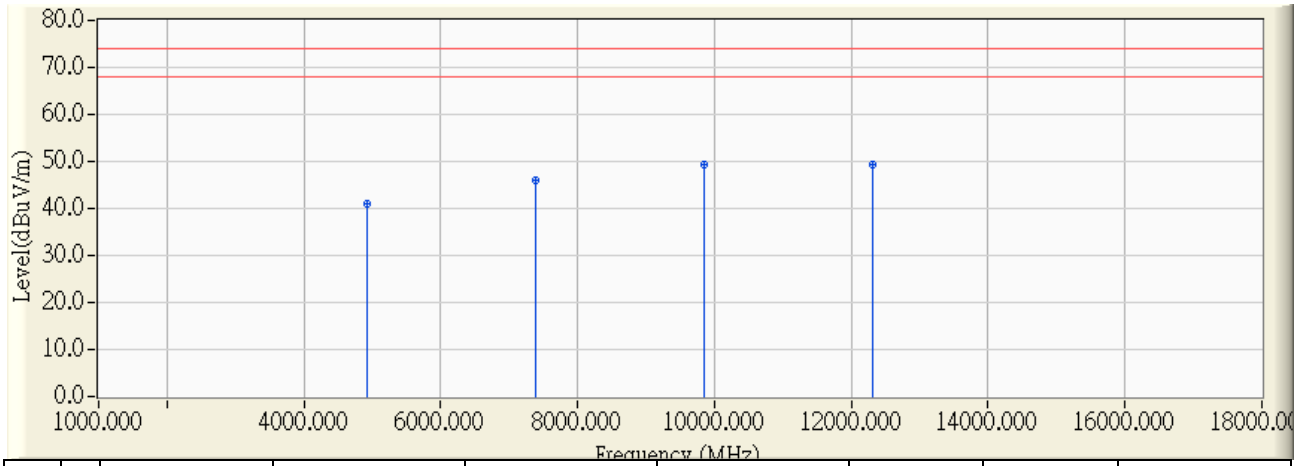


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-1.653	40.120	38.467	-35.533	74.000	PEAK
2		7311.000	5.573	39.720	45.293	-28.707	74.000	PEAK
3		9748.000	7.552	39.290	46.843	-27.157	74.000	PEAK
4	*	12185.000	9.890	39.630	49.520	-24.480	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 : 2015/12/14 - 14:31**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC120V / 60Hz**
EUT : Dual band AC1900 USB 3.0 Wi-Fi Adapter	**Note : Mode 2: Transmit_MIMO Mode 802.11n(20M) 2462MHz**

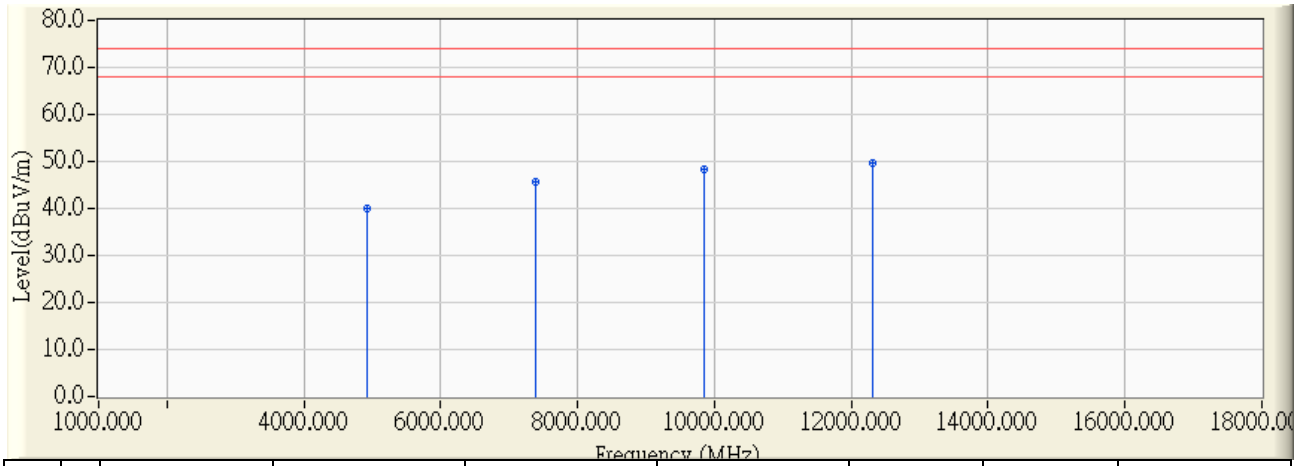


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	-2.291	43.210	40.919	-33.081	74.000	PEAK
2		7386.000	6.221	39.920	46.141	-27.859	74.000	PEAK
3	*	9848.000	8.742	40.700	49.442	-24.558	74.000	PEAK
4		12310.000	10.040	39.220	49.259	-24.741	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 : 2015/12/14 - 14:16**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC120V / 60Hz**
EUT : Dual band AC1900 USB 3.0 Wi-Fi Adapter	**Note : Mode 2: Transmit_MIMO Mode 802.11n(20M) 2462MHz**

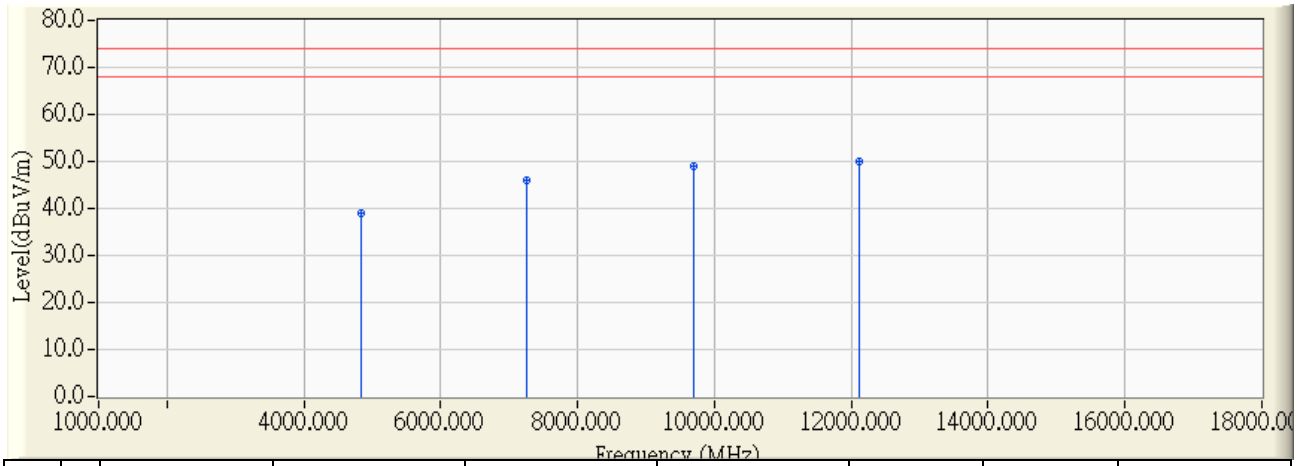


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4924.000	-1.644	41.740	40.096	-33.904	74.000	PEAK
2		7386.000	5.721	39.880	45.601	-28.399	74.000	PEAK
3		9848.000	7.944	40.320	48.264	-25.736	74.000	PEAK
4	*	12310.000	9.867	39.690	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 : 2015/12/14 - 14:36**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC120V / 60Hz**
EUT : Dual band AC1900 USB 3.0 Wi-Fi Adapter	**Note : Mode 2: Transmit_MIMO Mode 802.11n(40M) 2422MHz**

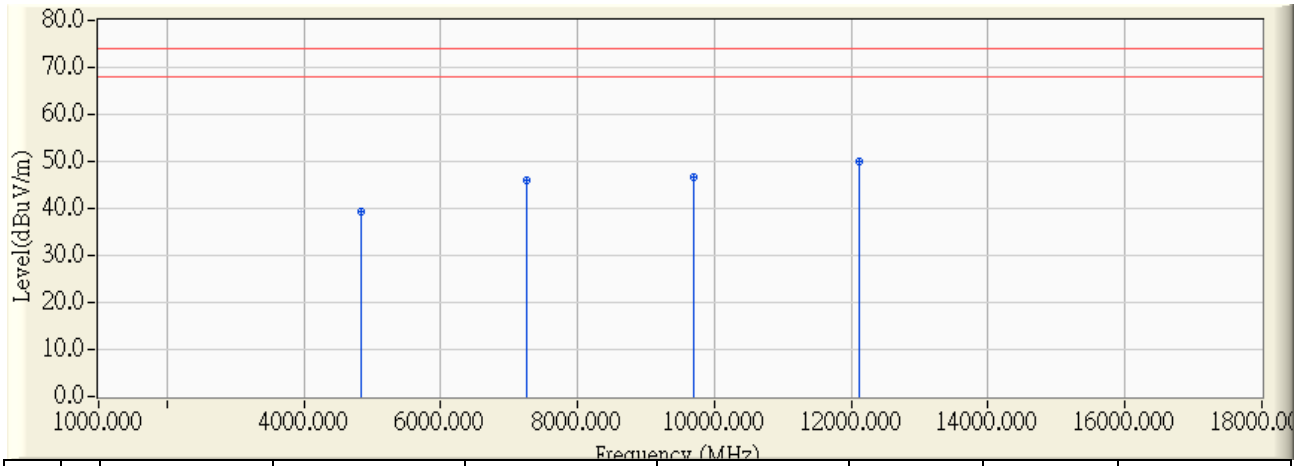


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4844.000	-2.506	41.640	39.134	-34.866	74.000	PEAK
2		7266.000	5.985	39.910	45.895	-28.105	74.000	PEAK
3		9688.000	7.875	41.060	48.935	-25.065	74.000	PEAK
4	*	12110.000	10.278	39.860	50.138	-23.862	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 : 2015/12/14 - 14:40**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC120V / 60Hz**
EUT : Dual band AC1900 USB 3.0 Wi-Fi Adapter	**Note : Mode 2: Transmit_MIMO Mode 802.11n(40M) 2422MHz**

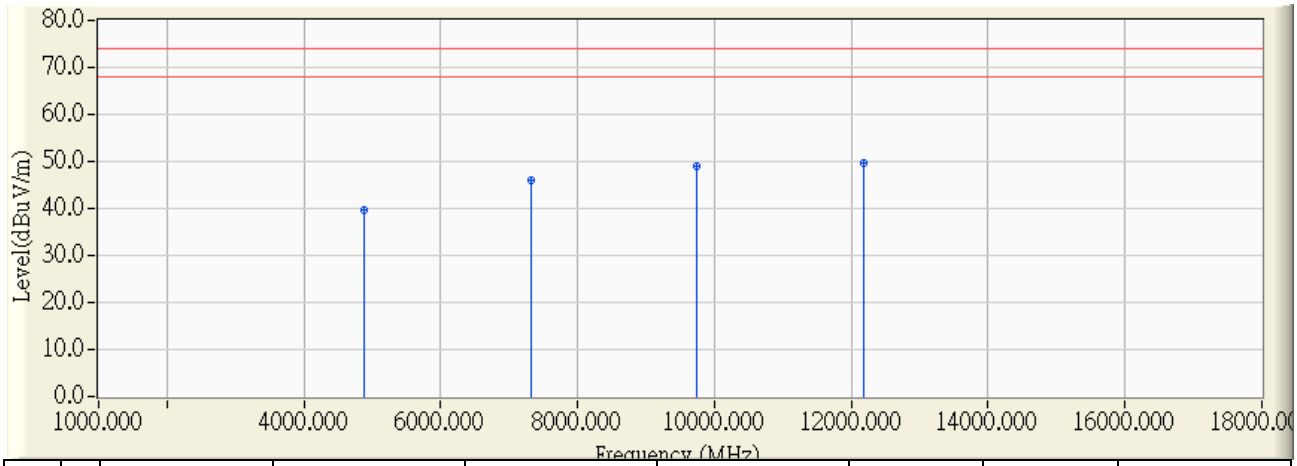


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4844.000	-1.659	40.850	39.192	-34.808	74.000	PEAK
2		7266.000	5.485	40.640	46.125	-27.875	74.000	PEAK
3		9688.000	7.317	39.400	46.718	-27.282	74.000	PEAK
4	*	12110.000	9.905	40.070	49.975	-24.025	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 : 2015/12/14 - 14:51**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC120V / 60Hz**
EUT : Dual band AC1900 USB 3.0 Wi-Fi Adapter	**Note : Mode 2: Transmit_MIMO Mode 802.11n(40M) 2437MHz**

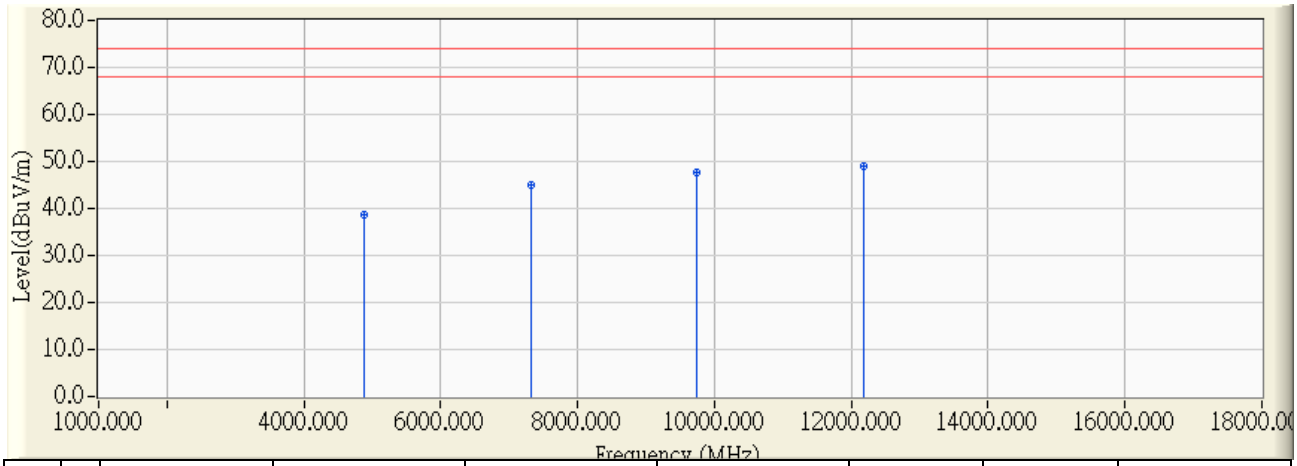


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-2.425	41.930	39.505	-34.495	74.000	PEAK
2		7311.000	6.073	39.970	46.043	-27.957	74.000	PEAK
3		9748.000	8.200	40.950	49.150	-24.850	74.000	PEAK
4	*	12185.000	10.188	39.450	49.638	-24.362	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 : 2015/12/14 - 14:45**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC120V / 60Hz**
EUT : Dual band AC1900 USB 3.0 Wi-Fi Adapter	**Note : Mode 2: Transmit_MIMO Mode 802.11n(40M) 2437MHz**

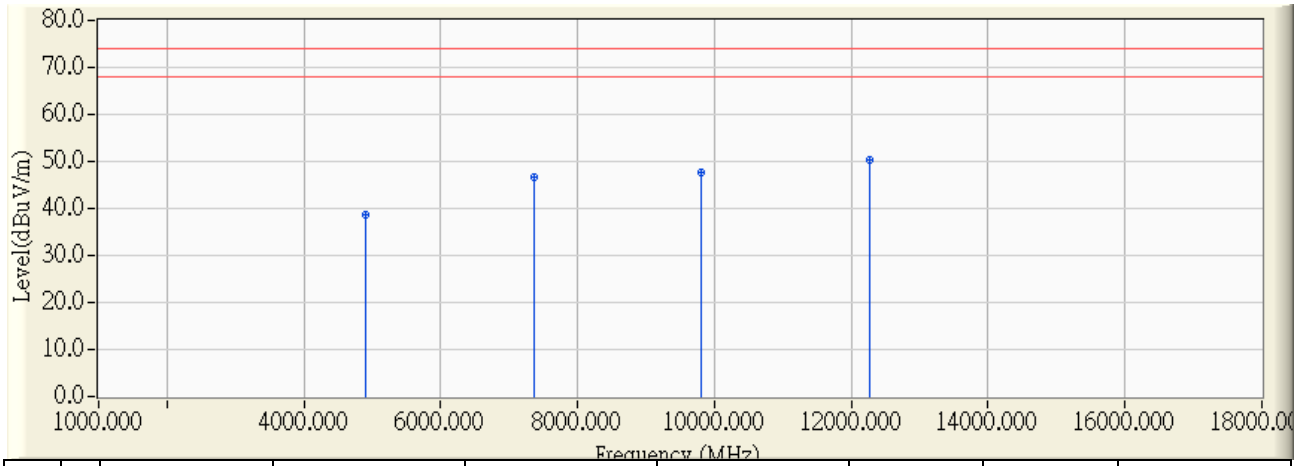


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4874.000	-1.653	40.380	38.727	-35.273	74.000	PEAK
2		7311.000	5.573	39.530	45.103	-28.897	74.000	PEAK
3		9748.000	7.552	40.040	47.593	-26.407	74.000	PEAK
4	*	12185.000	9.890	39.060	48.950	-25.050	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 : 2015/12/14 - 14:57**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - HORIZONTAL	**Power : AC120V / 60Hz**
EUT : Dual band AC1900 USB 3.0 Wi-Fi Adapter	**Note : Mode 2: Transmit_MIMO Mode 802.11n(40M) 2452MHz**

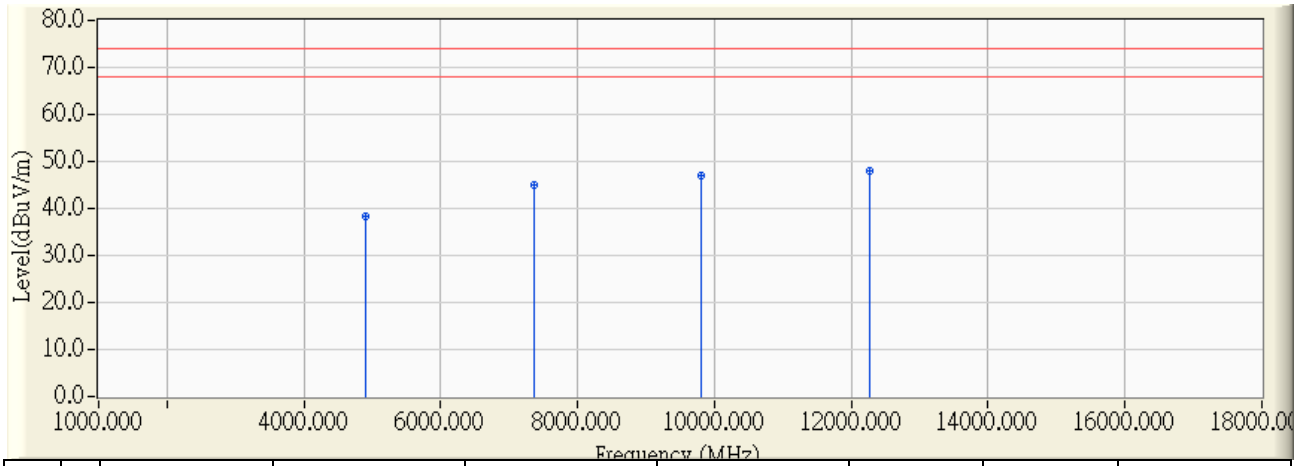


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1		4904.000	-2.345	41.160	38.815	-35.185	74.000	PEAK
2		7356.000	6.162	40.400	46.562	-27.438	74.000	PEAK
3		9808.000	8.525	39.300	47.825	-26.175	74.000	PEAK
4	*	12260.000	10.100	40.140	50.239	-23.761	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 : 2015/12/14 - 15:01**
Limit : FCC_SpartC_15.247_H_03M_PK	**Margin : 6**
Probe : CB1_FCC_EFS_1-18G_H2 - VERTICAL	**Power : AC120V / 60Hz**
EUT : Dual band AC1900 USB 3.0 Wi-Fi Adapter	**Note : Mode 2: Transmit_MIMO 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		4904.000	-1.648	39.950	38.303	-35.697	74.000	PEAK
2		7356.000	5.662	39.440	45.102	-28.898	74.000	PEAK
3		9808.000	7.787	39.170	46.958	-27.042	74.000	PEAK
4	*	12260.000	9.877	38.160	48.036	-25.964	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:

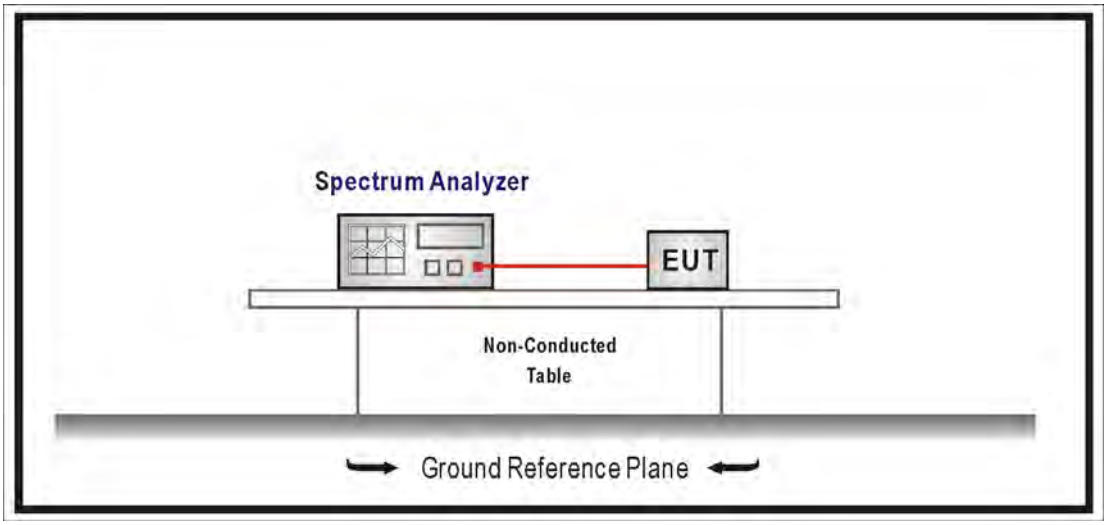
RF antenna conducted test / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2016/08/23

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

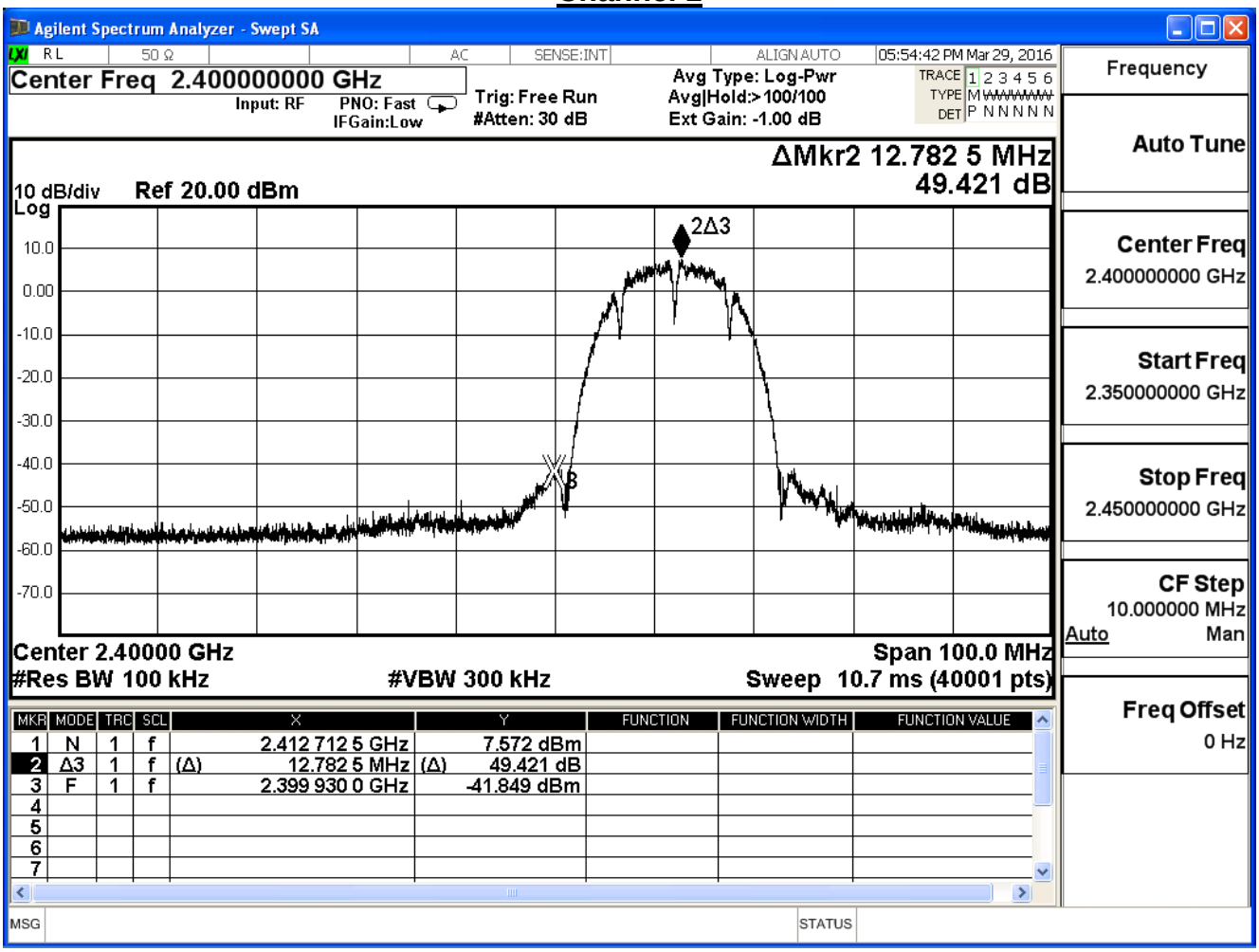
Conducted is defined as ± 1.27dB

5.7. Test Result

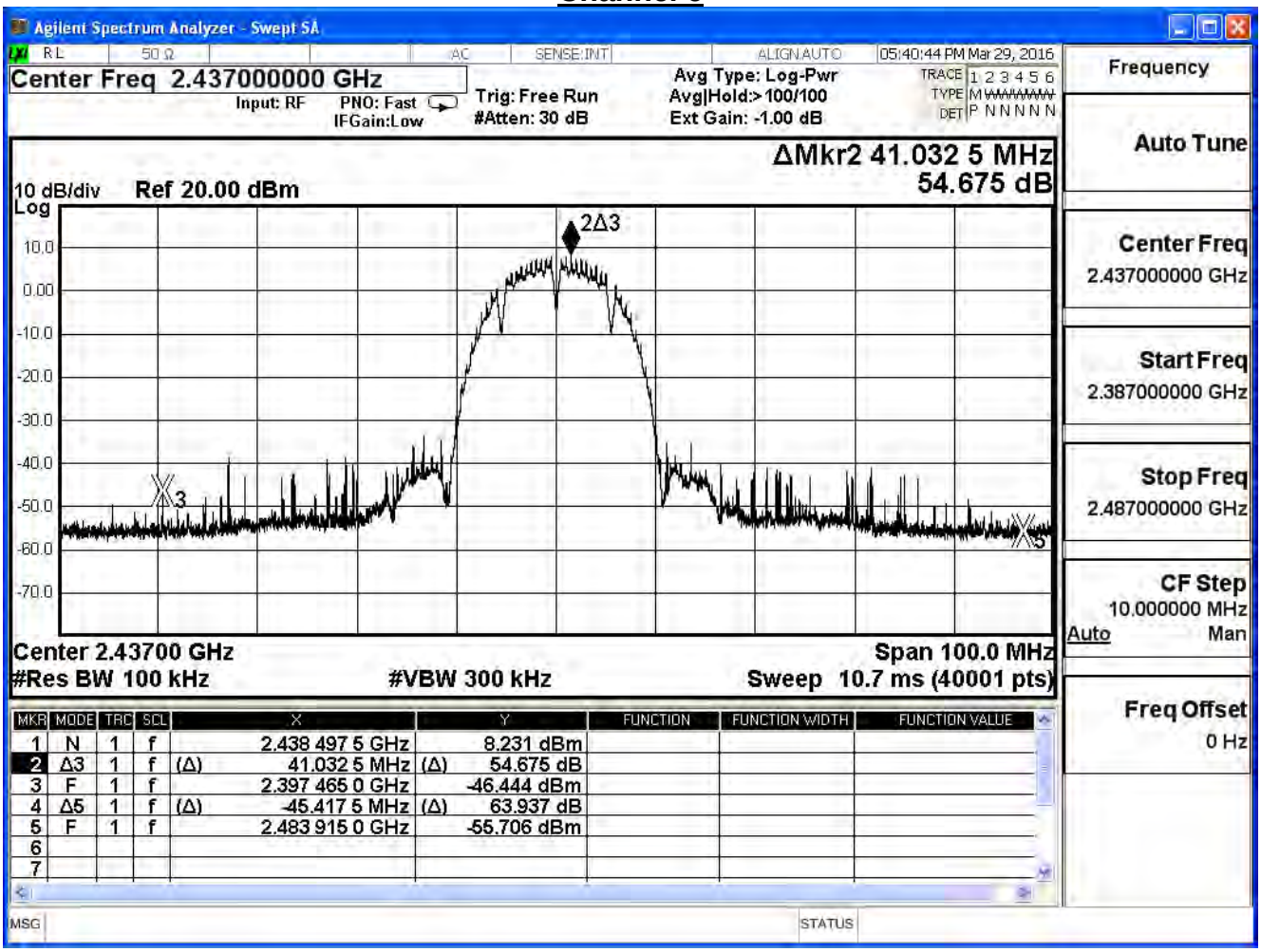
Product	Dual band AC1900 USB 3.0 Wi-Fi Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_SISO Mode		
Date of Test	2016/03/29	Test Site	SR7

IEEE 802.11b (ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	49.421	≧30	Pass
6	2437	54.675	≧30	Pass
11	2462	56.147	≧30	Pass

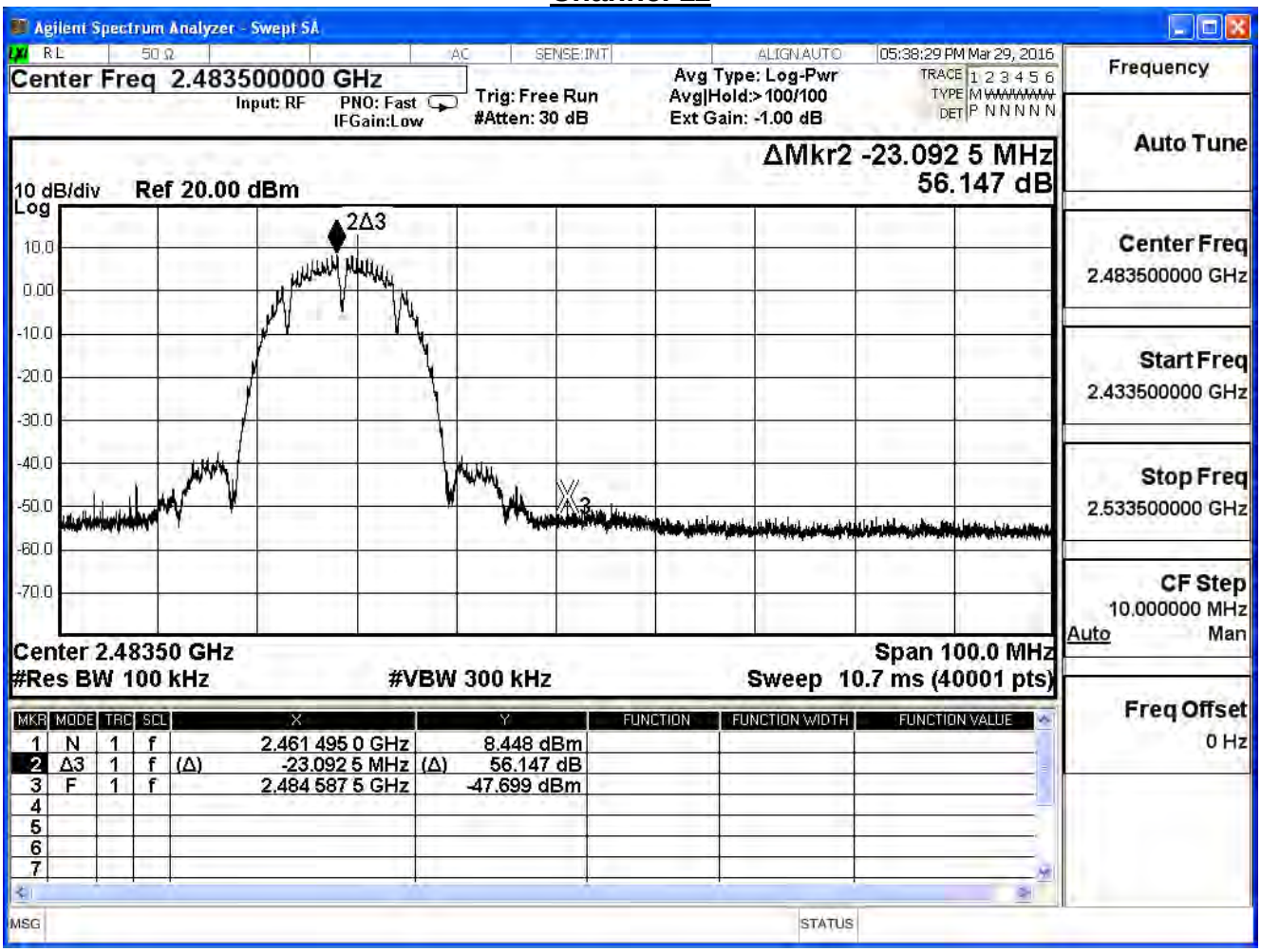
Channel 1



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: -1.00 dB
05:40:44 PM Mar 29, 2016
ΔMkr2 41.032 5 MHz
54.675 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 2.438 497 5 GHz 8.231 dBm
2 Δ3 1 f (Δ) 41.032 5 MHz (Δ) 54.675 dB
3 F 1 f 2.397 465 0 GHz -46.444 dBm
4 Δ5 1 f (Δ) -45.417 5 MHz (Δ) 63.937 dB
5 F 1 f 2.483 915 0 GHz -55.706 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

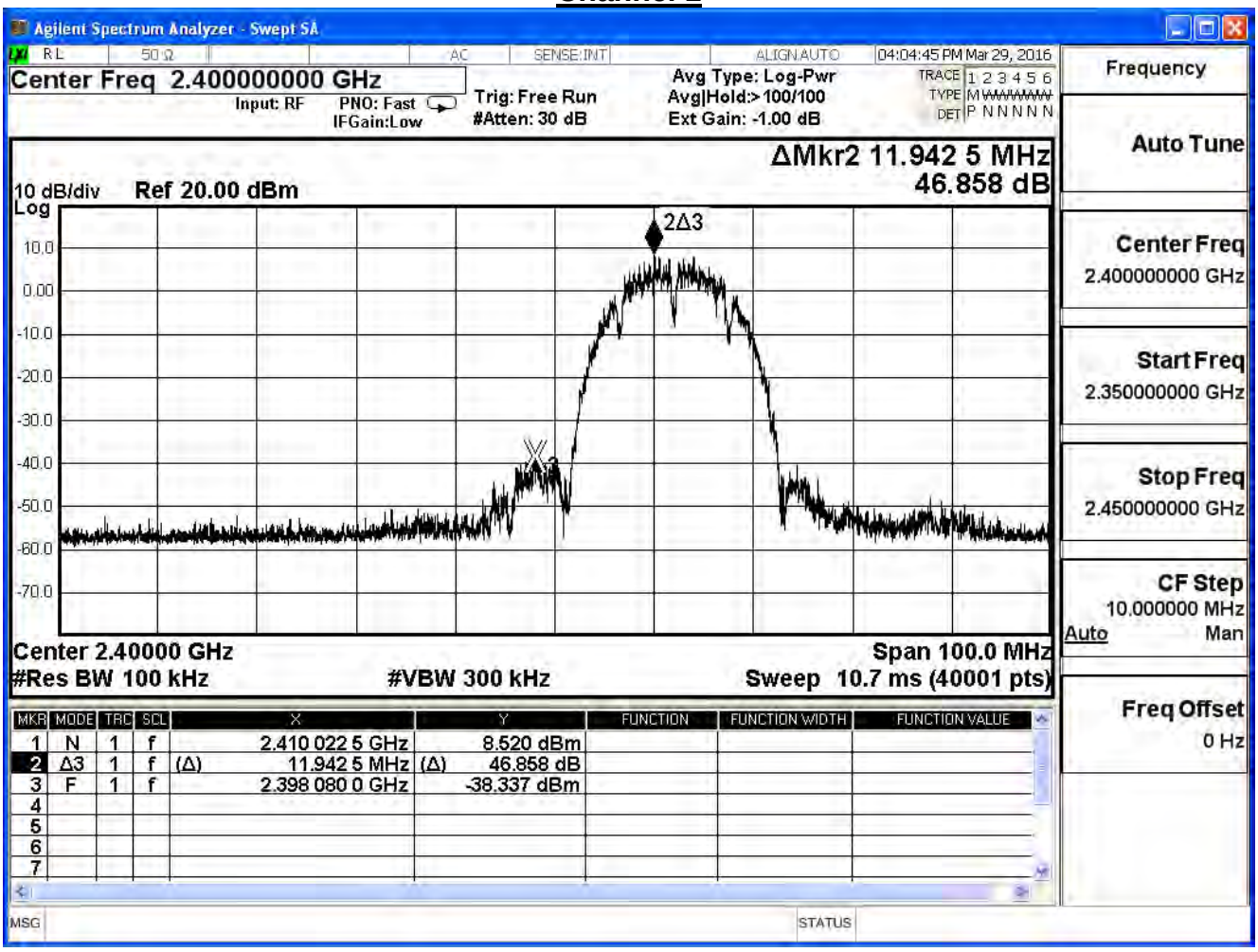
Channel 11


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: -1.00 dB
05:38:29 PM Mar 29, 2016
ΔMkr2 -23.092 5 MHz
56.147 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 2.461 495 0 GHz 8.448 dBm
2 Δ3 1 f (Δ) -23.092 5 MHz (Δ) 56.147 dB
3 F 1 f 2.484 587 5 GHz -47.699 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

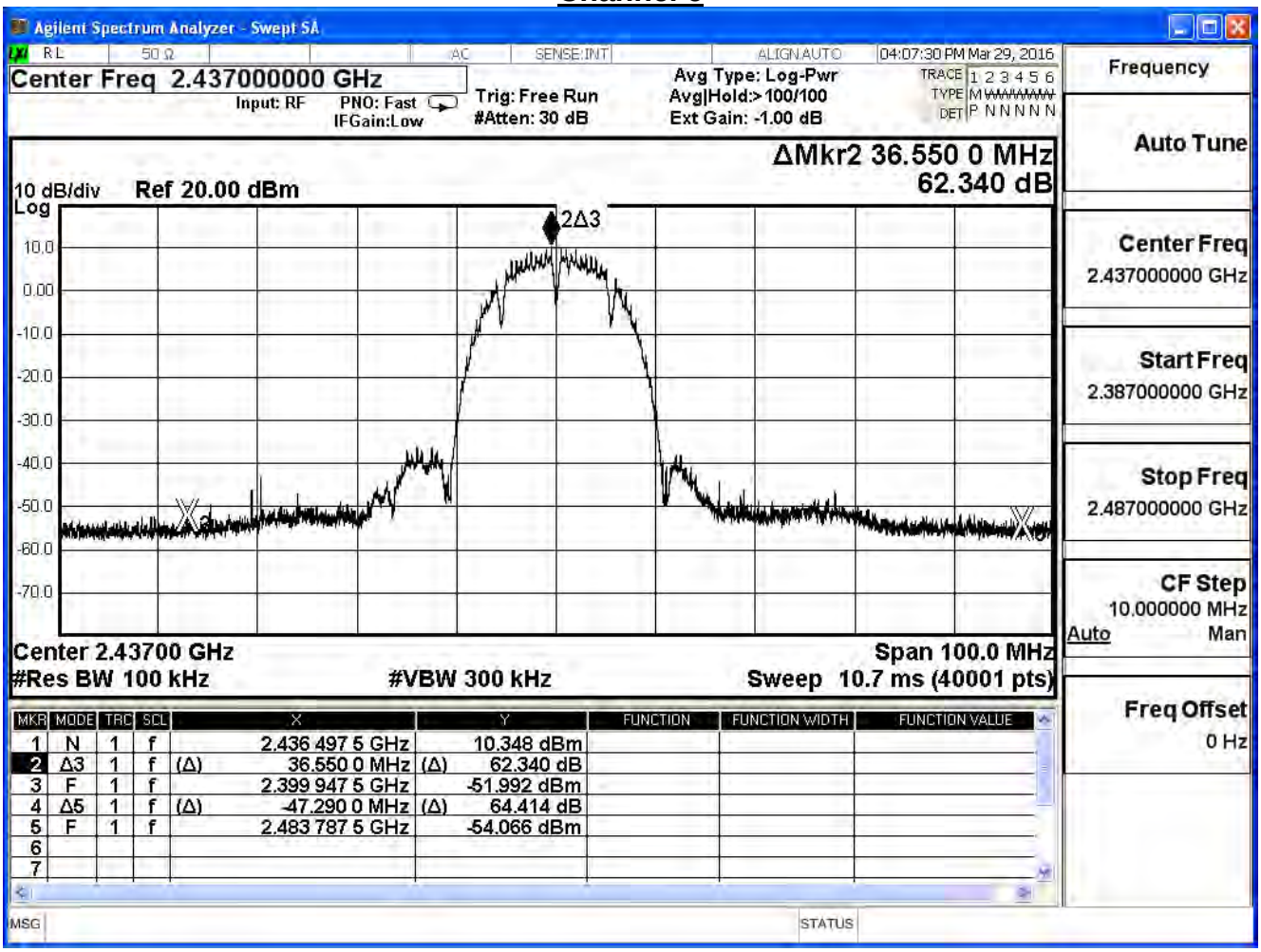
Product	Dual band AC1900 USB 3.0 Wi-Fi Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_SISO Mode		
Date of Test	2016/03/29	Test Site	SR7

IEEE 802.11b (ANT 1)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	46.858	≧30	Pass
6	2437	62.340	≧30	Pass
11	2462	59.014	≧30	Pass

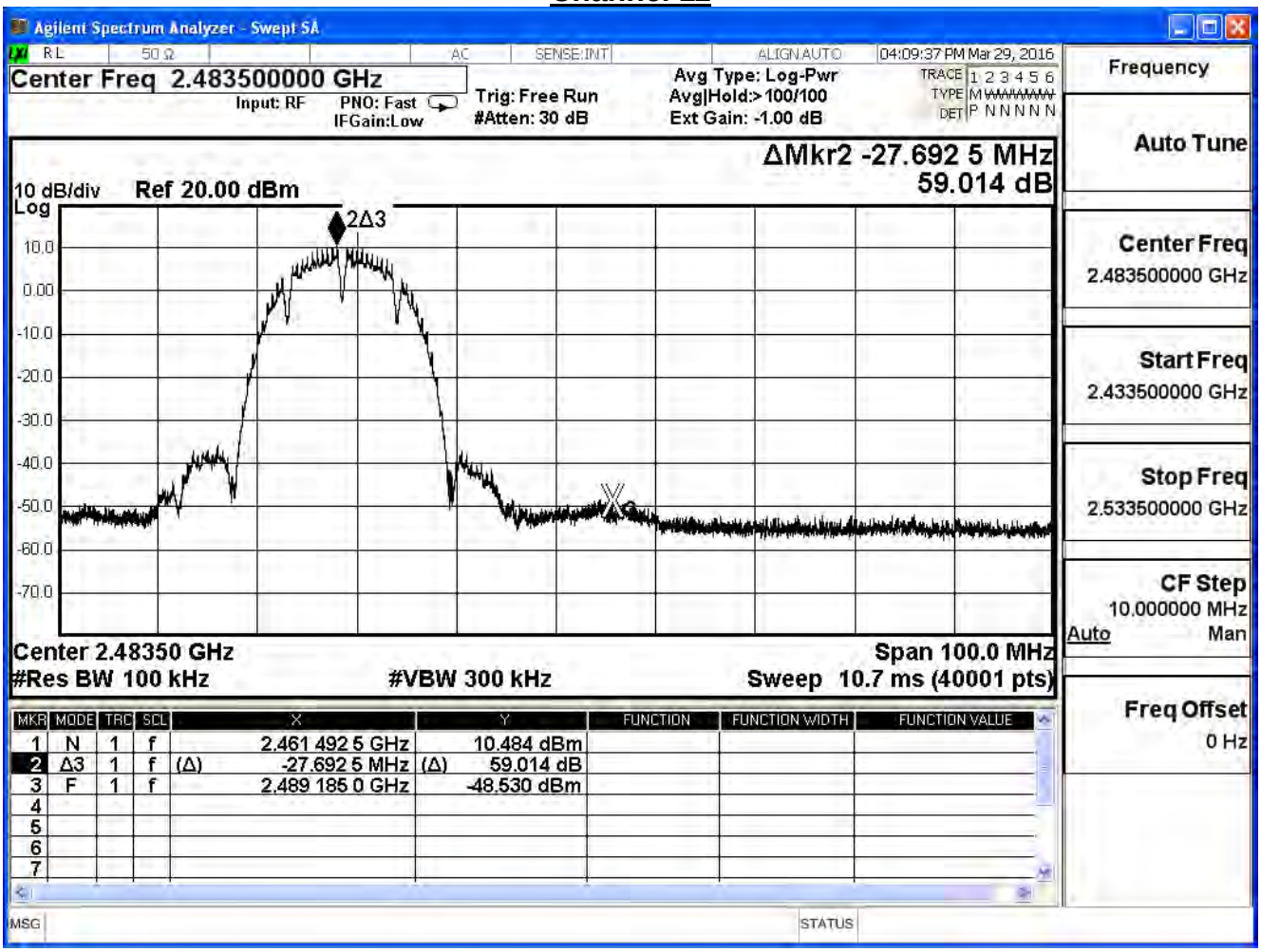
Channel 1



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: -1.00 dB
04:07:30 PM Mar 29, 2016
ΔMkr2 36.550 0 MHz
62.340 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 2.436 497 5 GHz 10.348 dBm
2 Δ3 1 f (Δ) 36.550 0 MHz (Δ) 62.340 dB
3 F 1 f 2.399 947 5 GHz -51.992 dBm
4 Δ5 1 f (Δ) -47.290 0 MHz (Δ) 64.414 dB
5 F 1 f 2.483 787 5 GHz -54.066 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

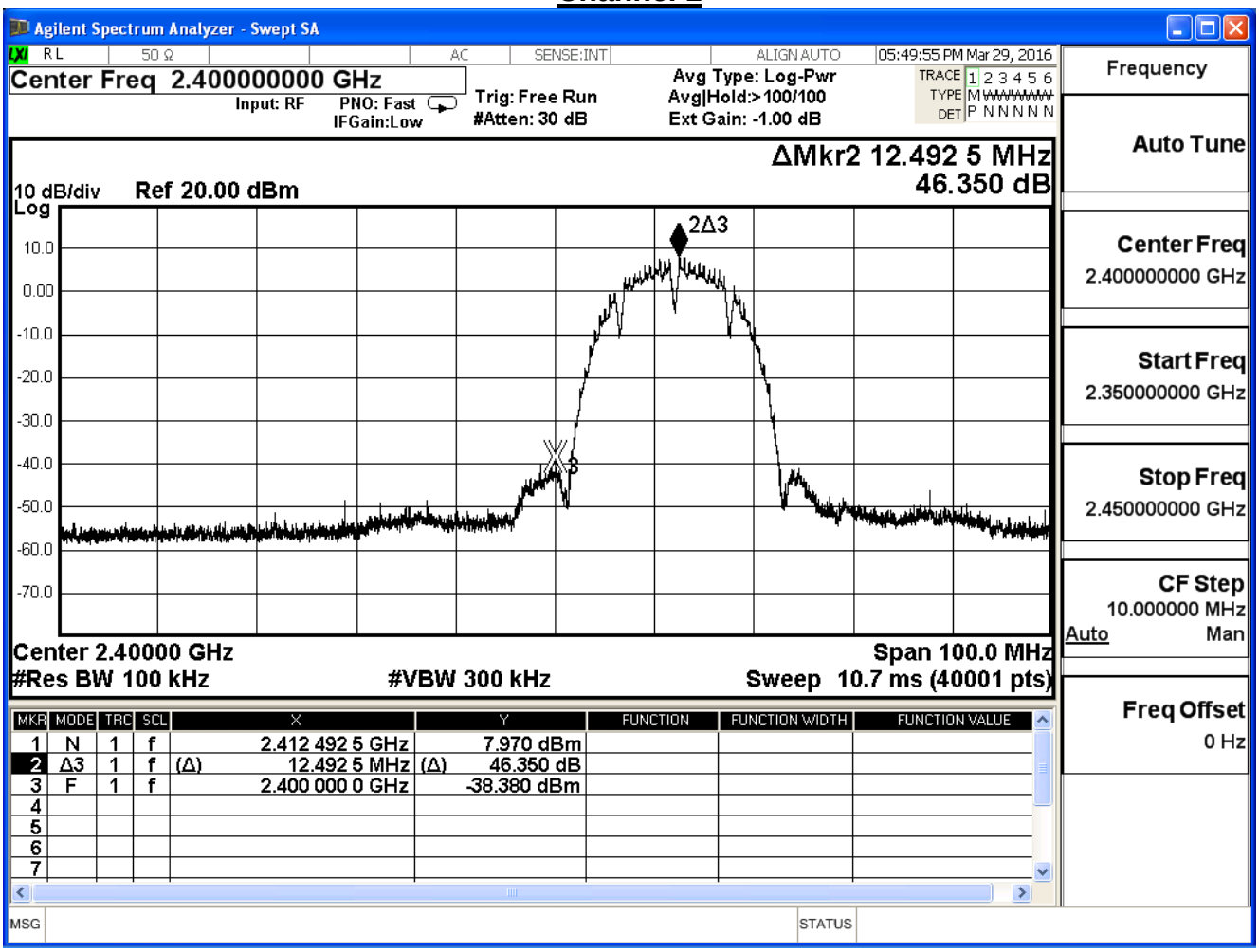

Agilent Spectrum Analyzer - Swept SA
Center Freq 2.483500000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -1.00 dB
04:09:37 PM Mar 29, 2016
ΔMkr2 -27.692 5 MHz
59.014 dB
10 dB/div
Log
Ref 20.00 dBm
2Δ3
Center 2.48350 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.7 ms (40001 pts)
1 N 1 f 2.461 492 5 GHz 10.484 dBm
2 Δ3 1 f (Δ) -27.692 5 MHz (Δ) 59.014 dB
3 F 1 f 2.489 185 0 GHz -48.530 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 AC1900 USB 3.0 Wi-Fi Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_SISO Mode		
Date of Test	2016/03/29	Test Site	SR7

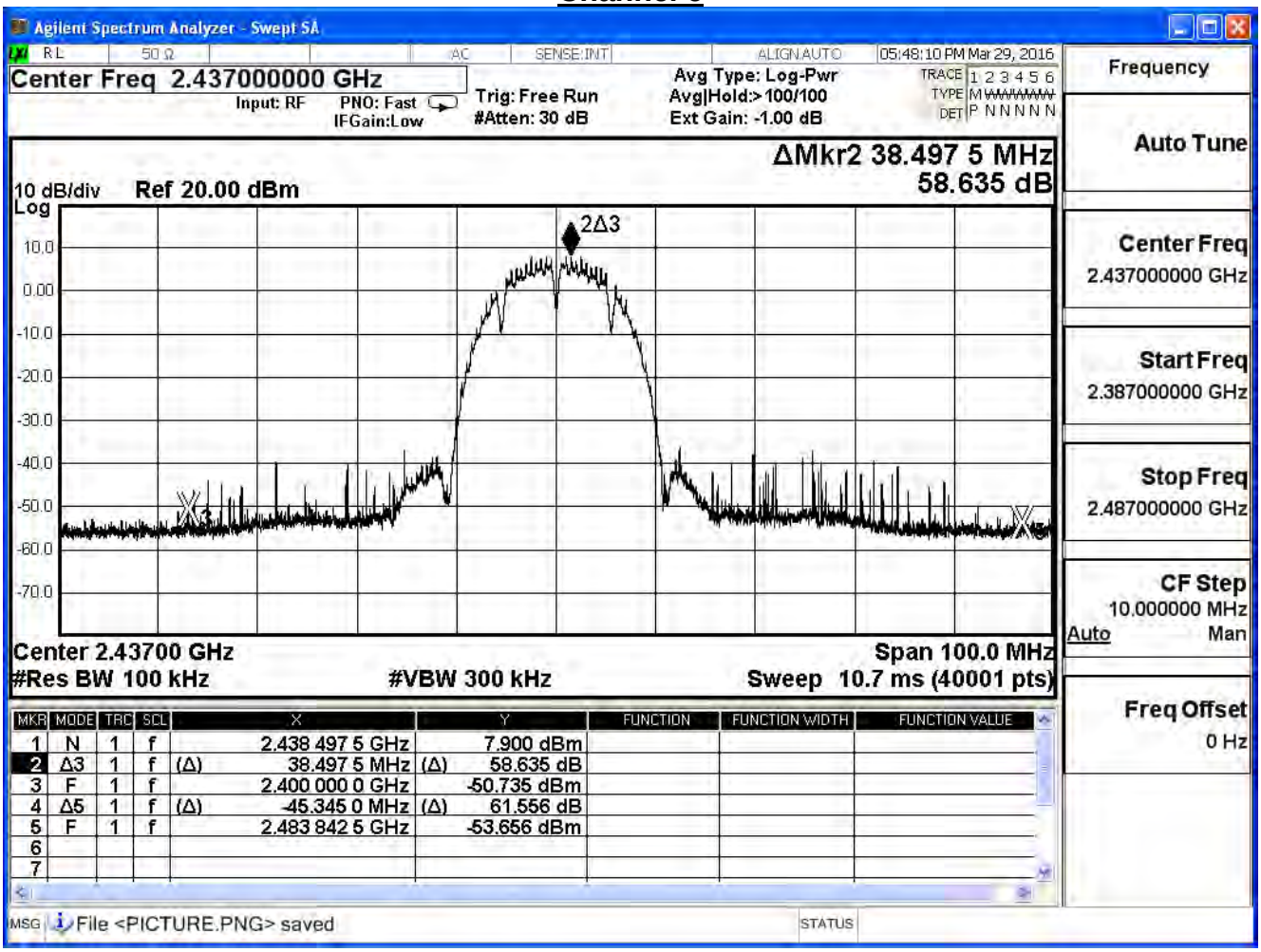
IEEE 802.11b (ANT 2)

Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	46.350	≧30	Pass
6	2437	58.635	≧30	Pass
11	2462	57.002	≧30	Pass

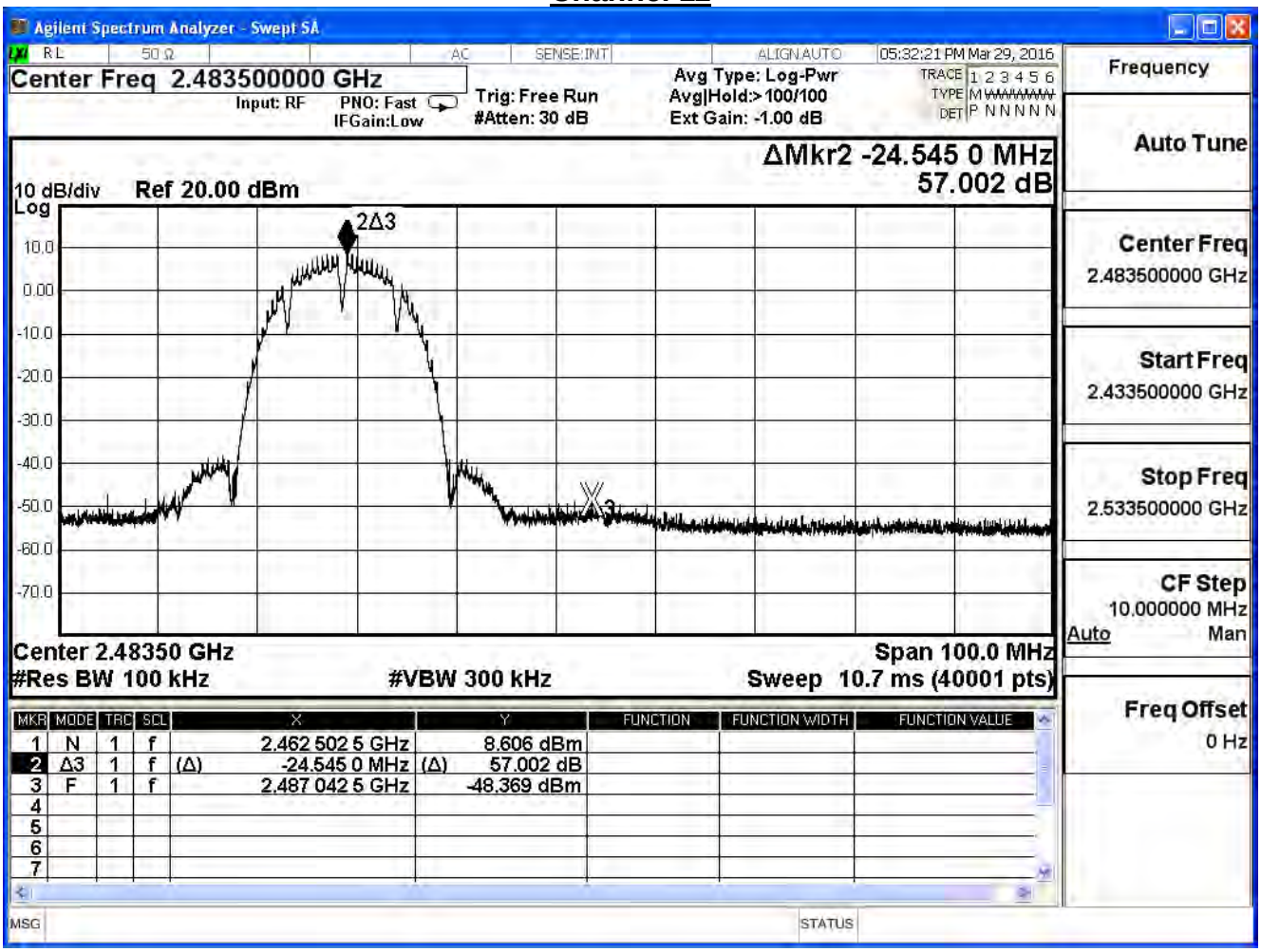
Channel 1



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: -1.00 dB
05:48:10 PM Mar 29, 2016
ΔMkr2 38.497 5 MHz
58.635 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 2.438 497 5 GHz 7.900 dBm
2 Δ3 1 f (Δ) 38.497 5 MHz (Δ) 58.635 dB
3 F 1 f 2.400 000 0 GHz -50.735 dBm
4 Δ5 1 f (Δ) -45.345 0 MHz (Δ) 61.556 dB
5 F 1 f 2.483 842 5 GHz -53.656 dBm
File <PICTURE.PNG> saved
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

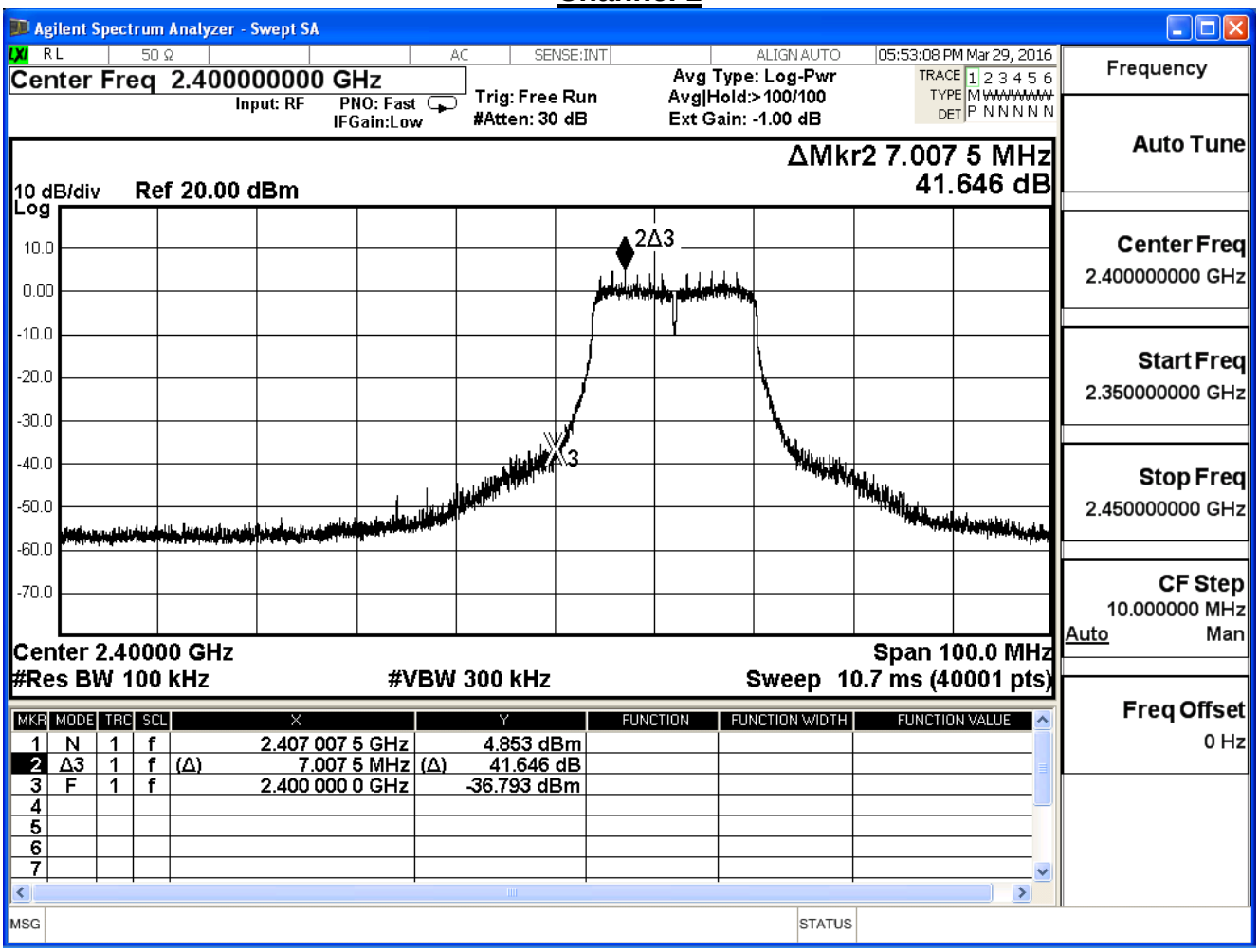

Agilent Spectrum Analyzer - Swept SA
Center Freq 2.483500000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -1.00 dB
05:32:21 PM Mar 29, 2016
ΔMkr2 -24.545 0 MHz
57.002 dB
10 dB/div
Log
Ref 20.00 dBm
Center 2.48350 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.7 ms (40001 pts)
1 N 1 f 2.462 502 5 GHz 8.606 dBm
2 Δ3 1 f (Δ) -24.545 0 MHz (Δ) 57.002 dB
3 F 1 f 2.487 042 5 GHz -48.369 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 AC1900 USB 3.0 Wi-Fi Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_SISO Mode		
Date of Test	2016/03/29	Test Site	SR7

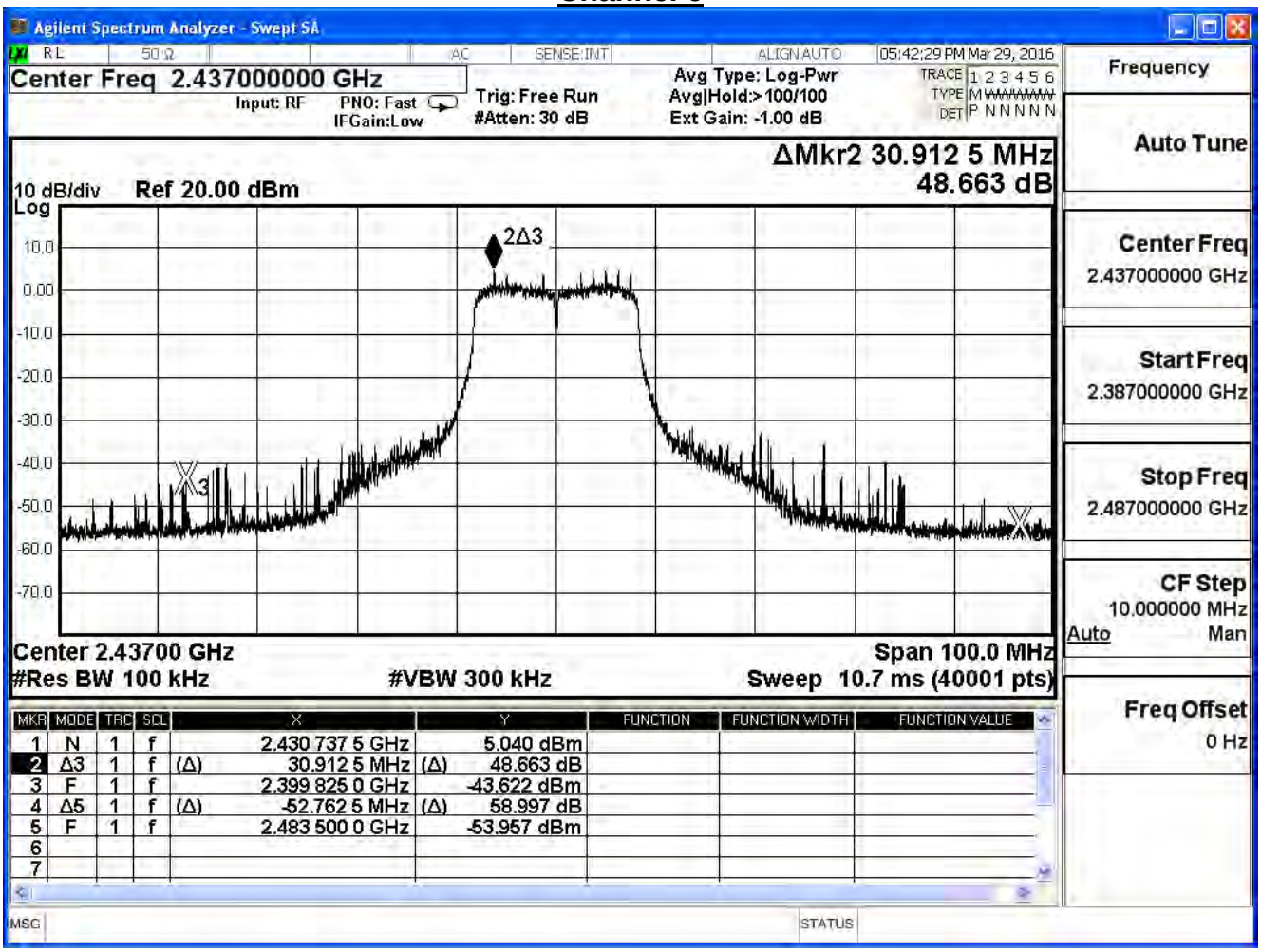
IEEE 802.11g (ANT 0)

Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	41.646	≧30	Pass
6	2437	48.663	≧30	Pass
11	2462	50.101	≧30	Pass

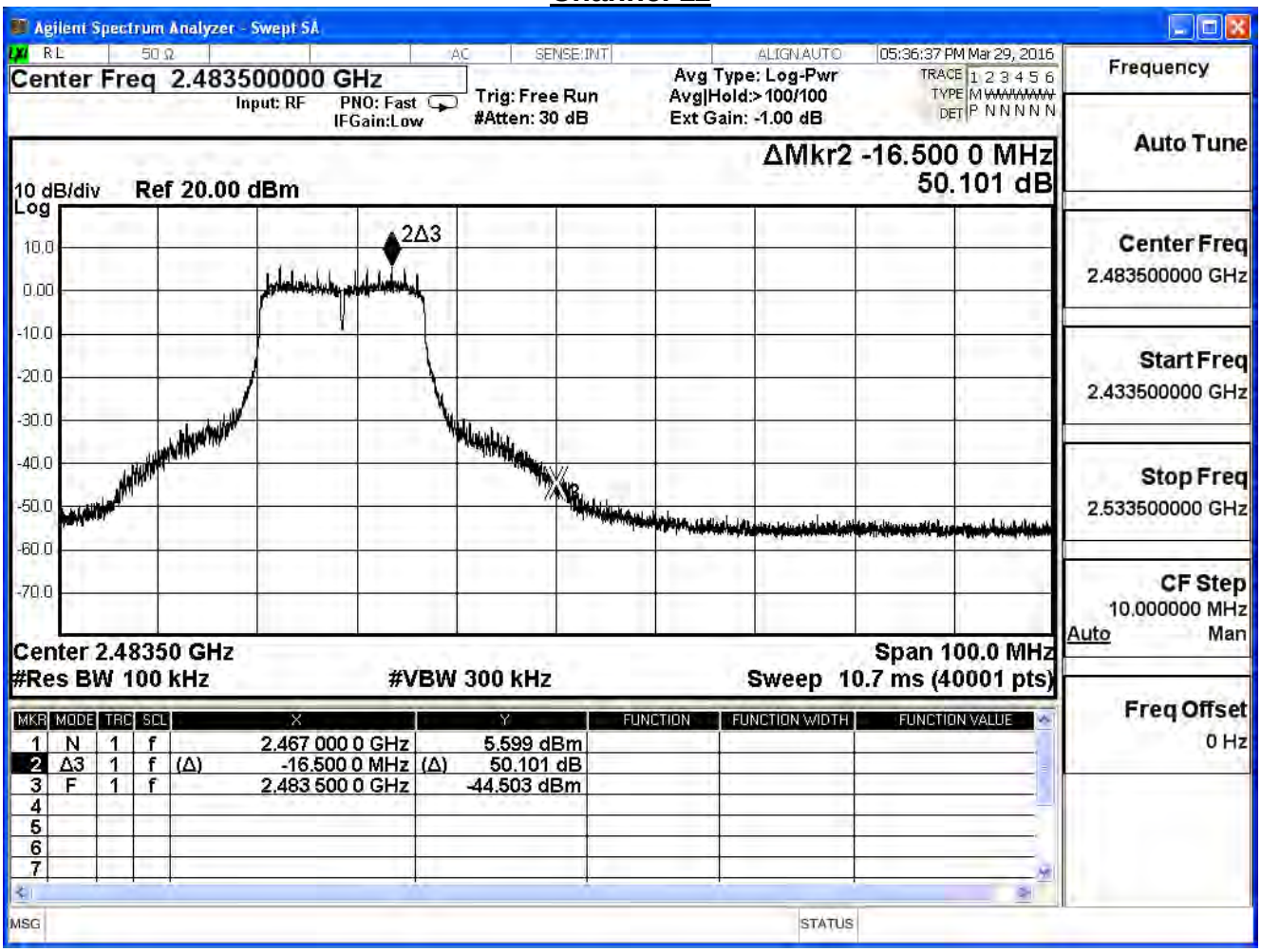
Channel 1



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: -1.00 dB
05:42:29 PM Mar 29, 2016
ΔMkr2 30.912 5 MHz
48.663 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 2.430 737 5 GHz 5.040 dBm
2 Δ3 1 f (Δ) 30.912 5 MHz (Δ) 48.663 dB
3 F 1 f 2.399 825 0 GHz -43.622 dBm
4 Δ5 1 f (Δ) -52.762 5 MHz (Δ) 58.997 dB
5 F 1 f 2.483 500 0 GHz -53.957 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

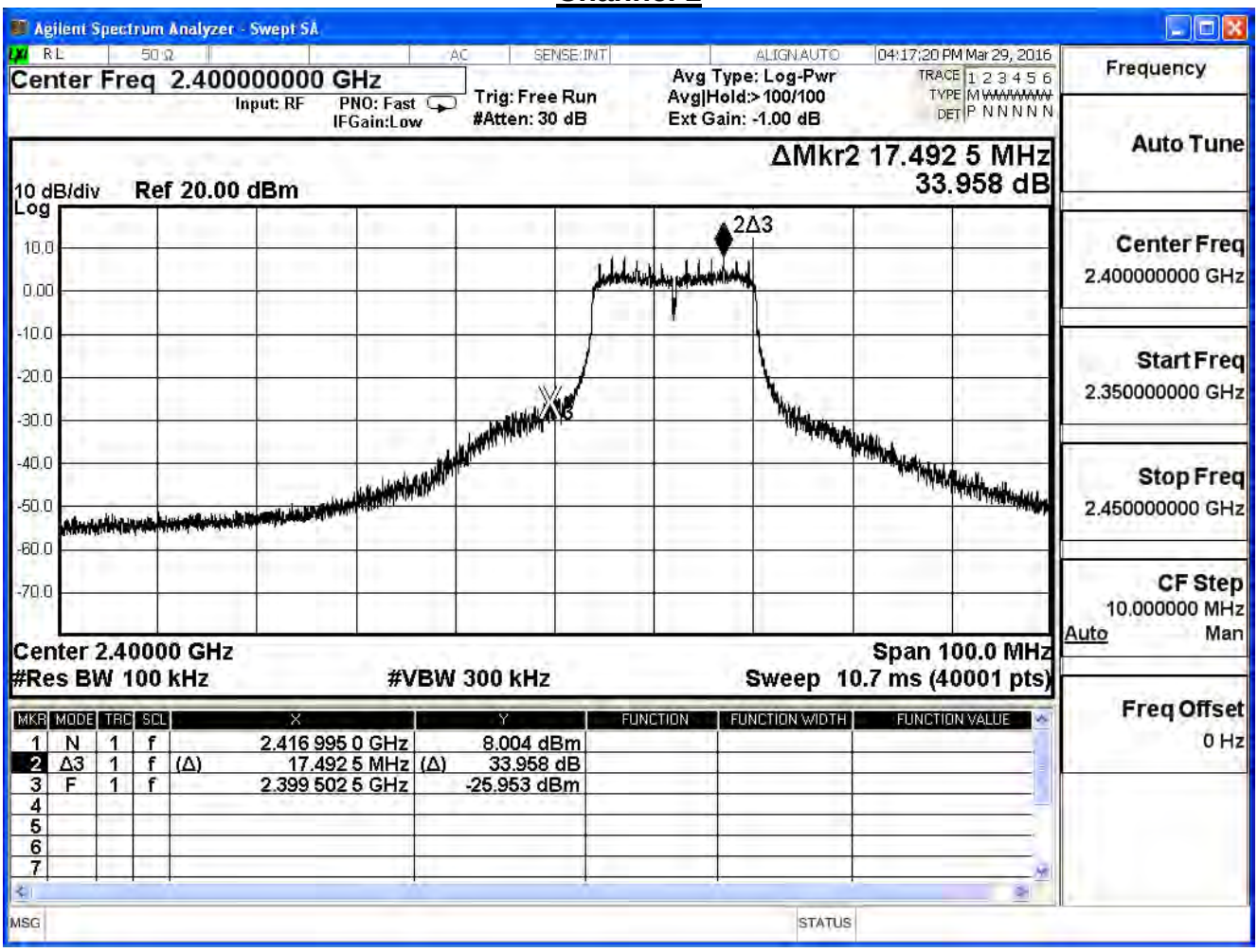
Channel 11


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: -1.00 dB
05:36:37 PM Mar 29, 2016
ΔMkr2 -16.500 0 MHz
50.101 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 2.467 000 0 GHz 5.599 dBm
2 Δ3 1 f (Δ) -16.500 0 MHz (Δ) 50.101 dB
3 F 1 f 2.483 500 0 GHz -44.503 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

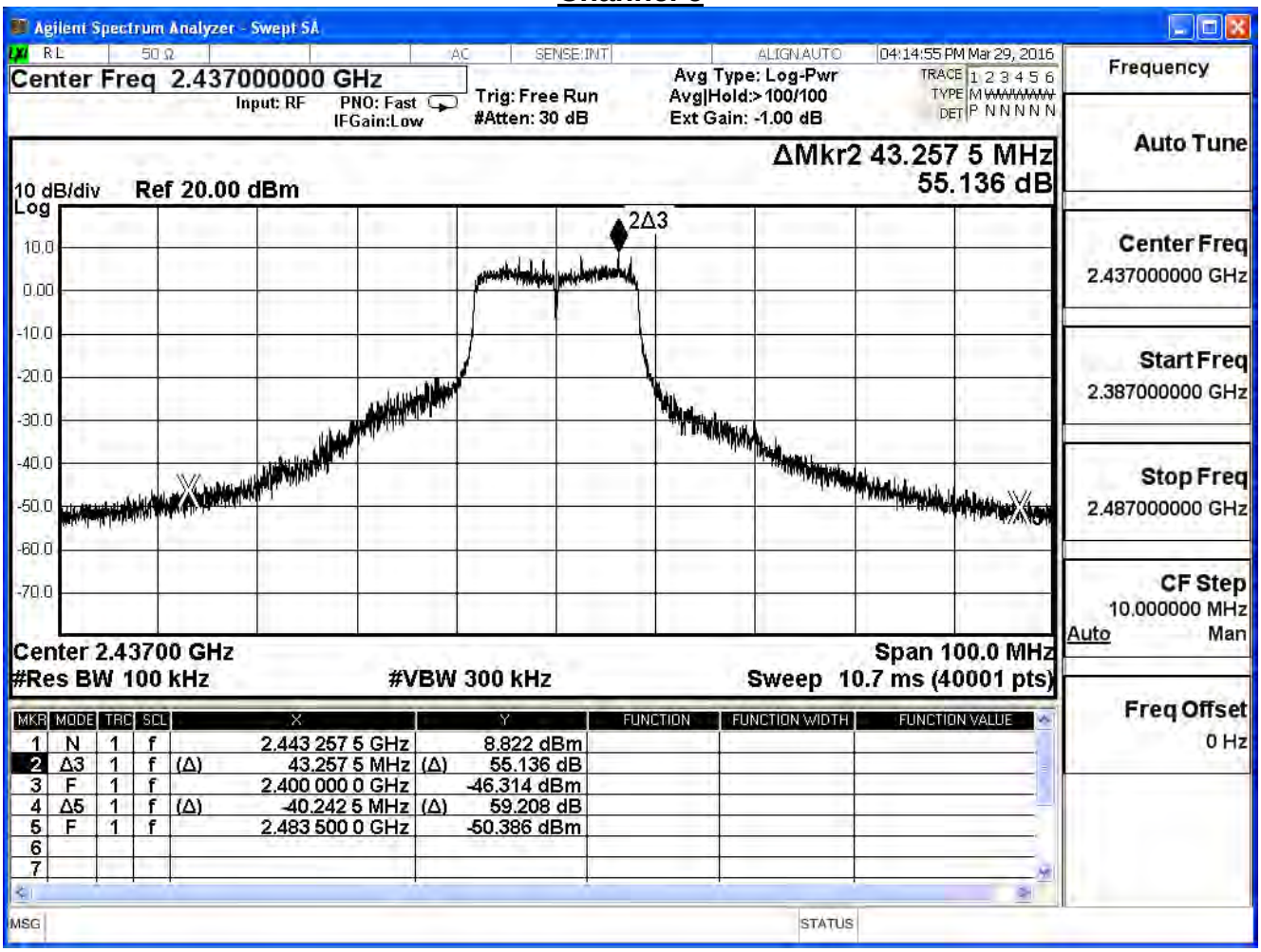
Product	Dual band AC1900 USB 3.0 Wi-Fi Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_SISO Mode		
Date of Test	2016/03/29	Test Site	SR7

IEEE 802.11g (ANT 1)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	33.958	≧30	Pass
6	2437	55.136	≧30	Pass
11	2462	44.147	≧30	Pass

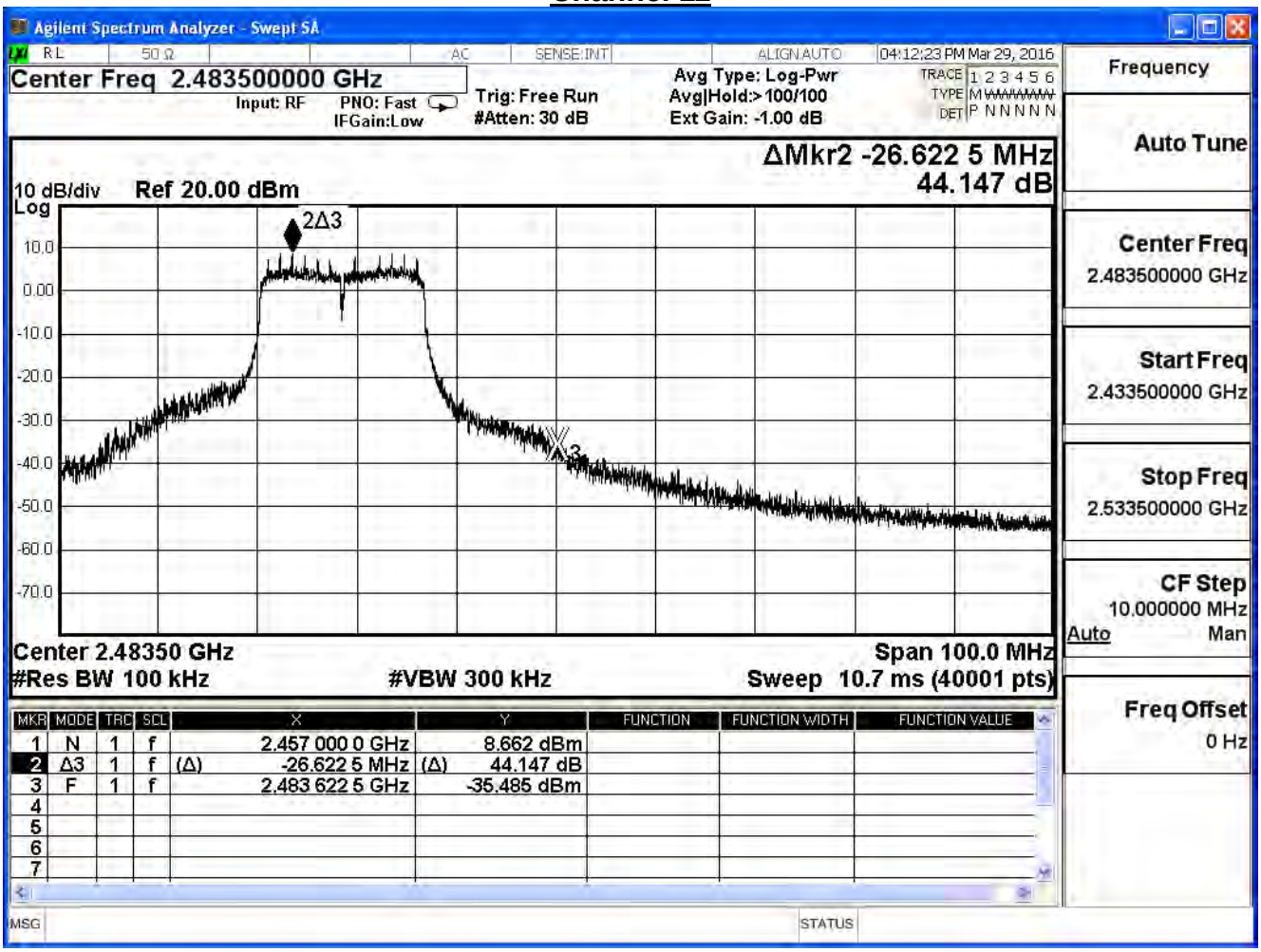
Channel 1



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: -1.00 dB
04:14:55 PM Mar 29, 2016
ΔMkr2 43.257 5 MHz
55.136 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 2.443 257 5 GHz 8.822 dBm
2 Δ3 1 f (Δ) 43.257 5 MHz (Δ) 55.136 dB
3 F 1 f 2.400 000 0 GHz -46.314 dBm
4 Δ5 1 f (Δ) -40.242 5 MHz (Δ) 59.208 dB
5 F 1 f 2.483 500 0 GHz -50.386 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

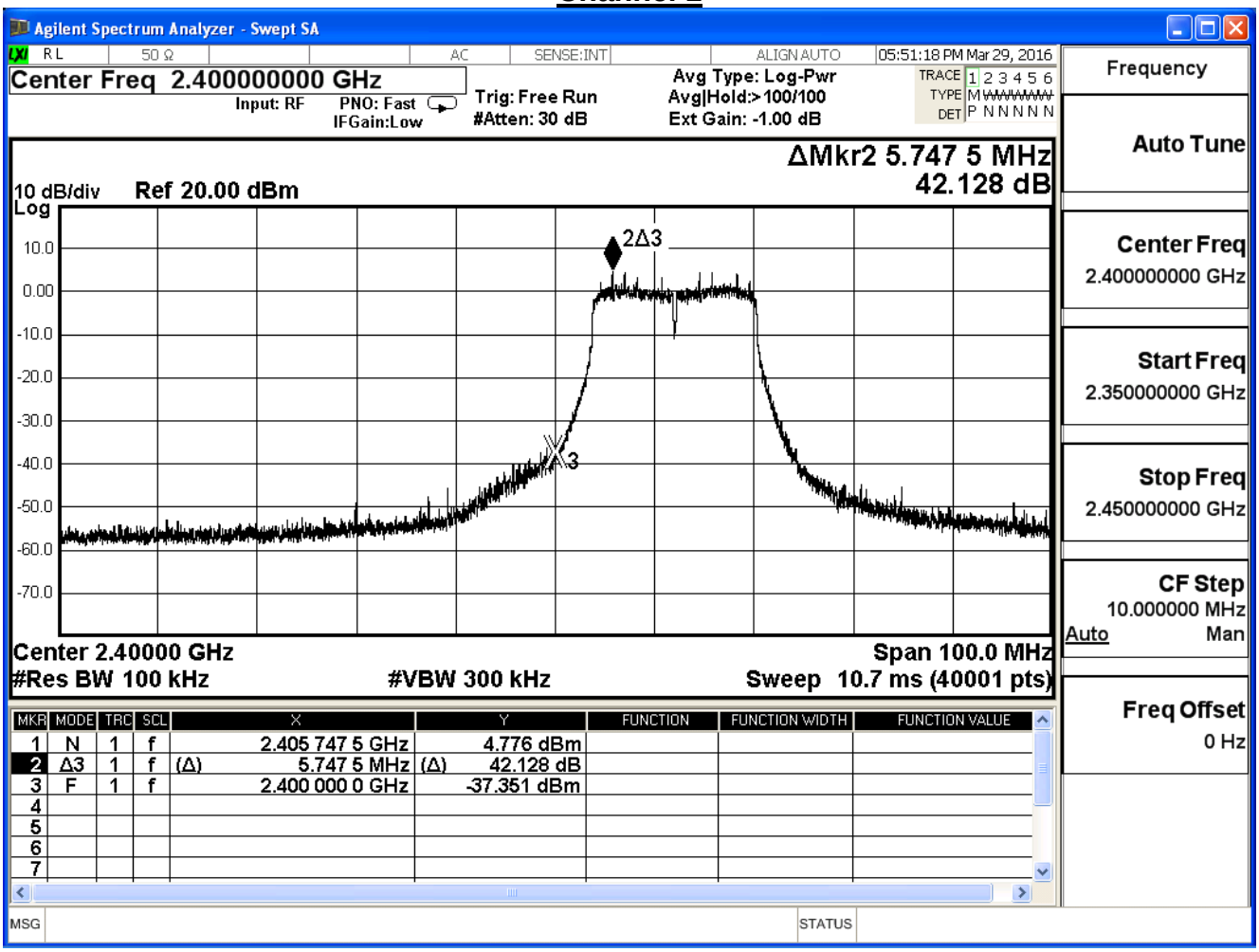
Channel 11


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: -1.00 dB
04:12:23 PM Mar 29, 2016
ΔMkr2 -26.622 5 MHz
44.147 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 2.457 000 0 GHz 8.662 dBm
2 Δ3 1 f (Δ) -26.622 5 MHz (Δ) 44.147 dB
3 F 1 f 2.483 622 5 GHz -35.485 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

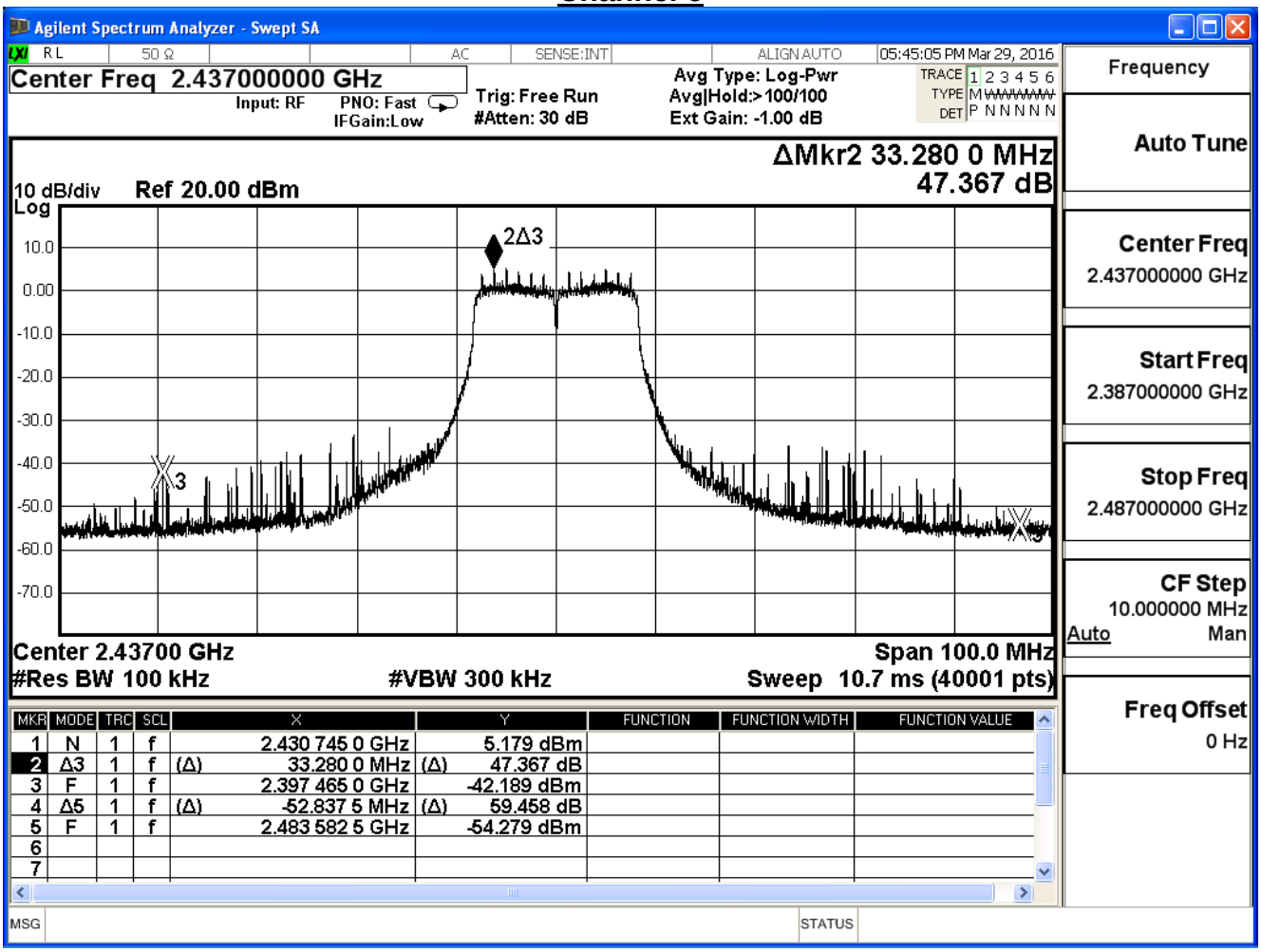
Product	Dual band AC1900 USB 3.0 Wi-Fi Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit_SISO Mode		
Date of Test	2016/03/29	Test Site	SR7

IEEE 802.11g (ANT 2)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	42.128	≧30	Pass
6	2437	47.367	≧30	Pass
11	2462	53.852	≧30	Pass

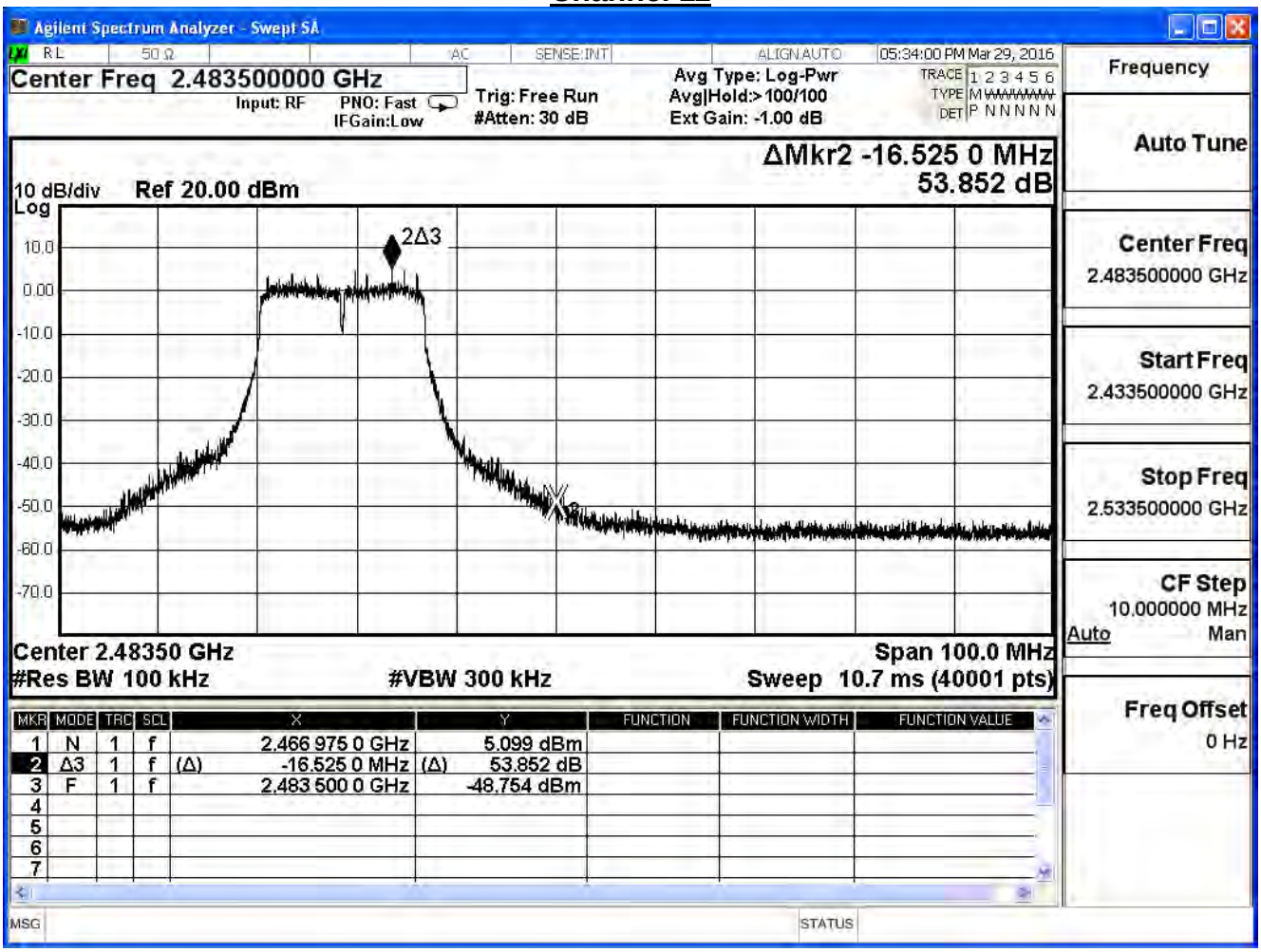
Channel 1



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: -1.00 dB
05:45:05 PM Mar 29, 2016
ΔMkr2 33.280 0 MHz
47.367 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)
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
1 N 1 f 2.430 745 0 GHz 5.179 dBm
2 Δ3 1 f (Δ) 33.280 0 MHz (Δ) 47.367 dB
3 F 1 f 2.397 465 0 GHz -42.189 dBm
4 Δ5 1 f (Δ) -52.837 5 MHz (Δ) 59.458 dB
5 F 1 f 2.483 582 5 GHz -54.279 dBm

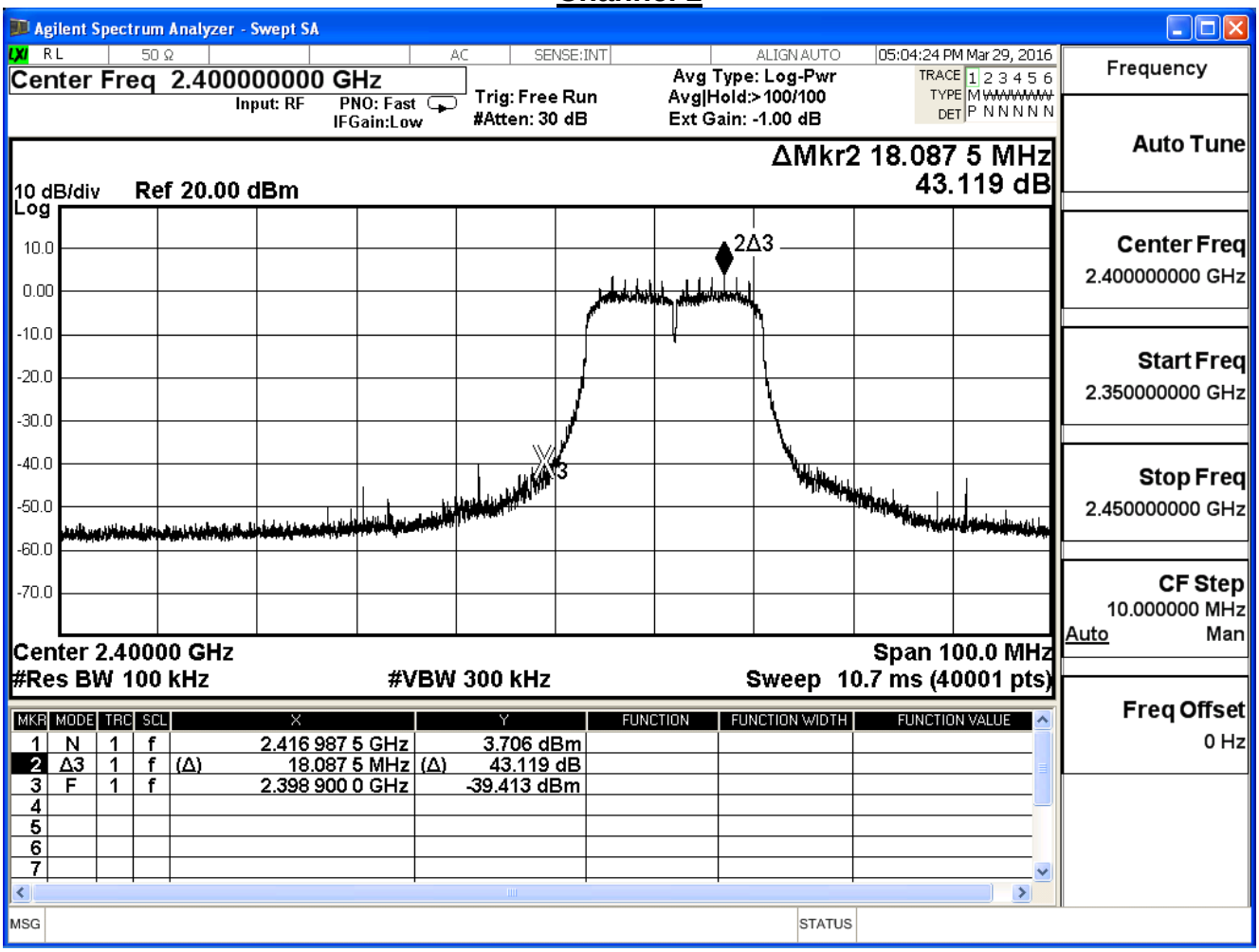
Channel 11


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: -1.00 dB
05:34:00 PM Mar 29, 2016
ΔMkr2 -16.525 0 MHz
53.852 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 2.466 975 0 GHz 5.099 dBm
2 Δ3 1 f (Δ) -16.525 0 MHz (Δ) 53.852 dB
3 F 1 f 2.483 500 0 GHz -48.754 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

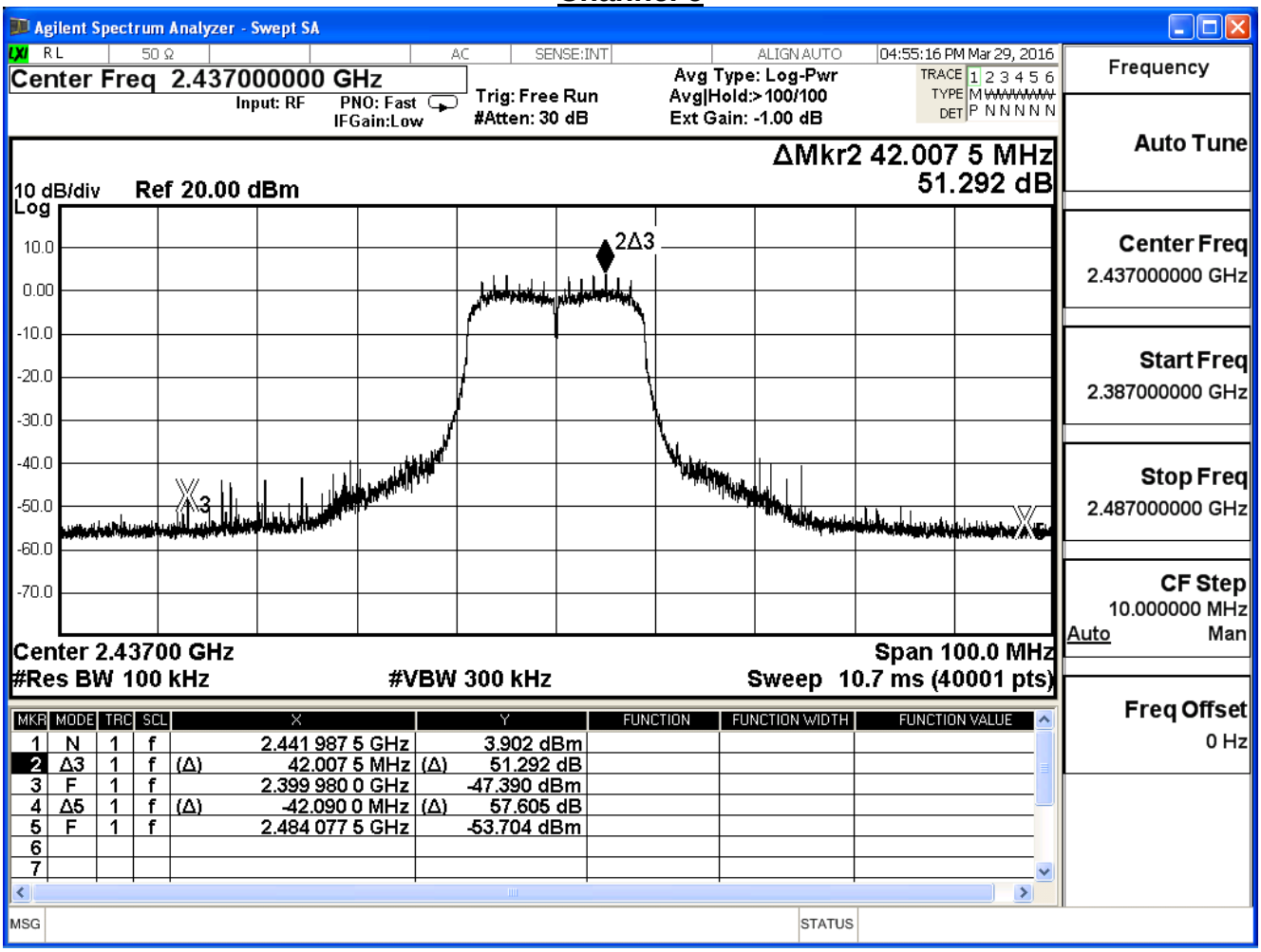
Product	Dual band AC1900 USB 3.0 Wi-Fi Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2016/03/29	Test Site	SR7

IEEE 802.11n_20M (ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	43.119	≧30	Pass
6	2437	51.292	≧30	Pass
11	2462	41.905	≧30	Pass

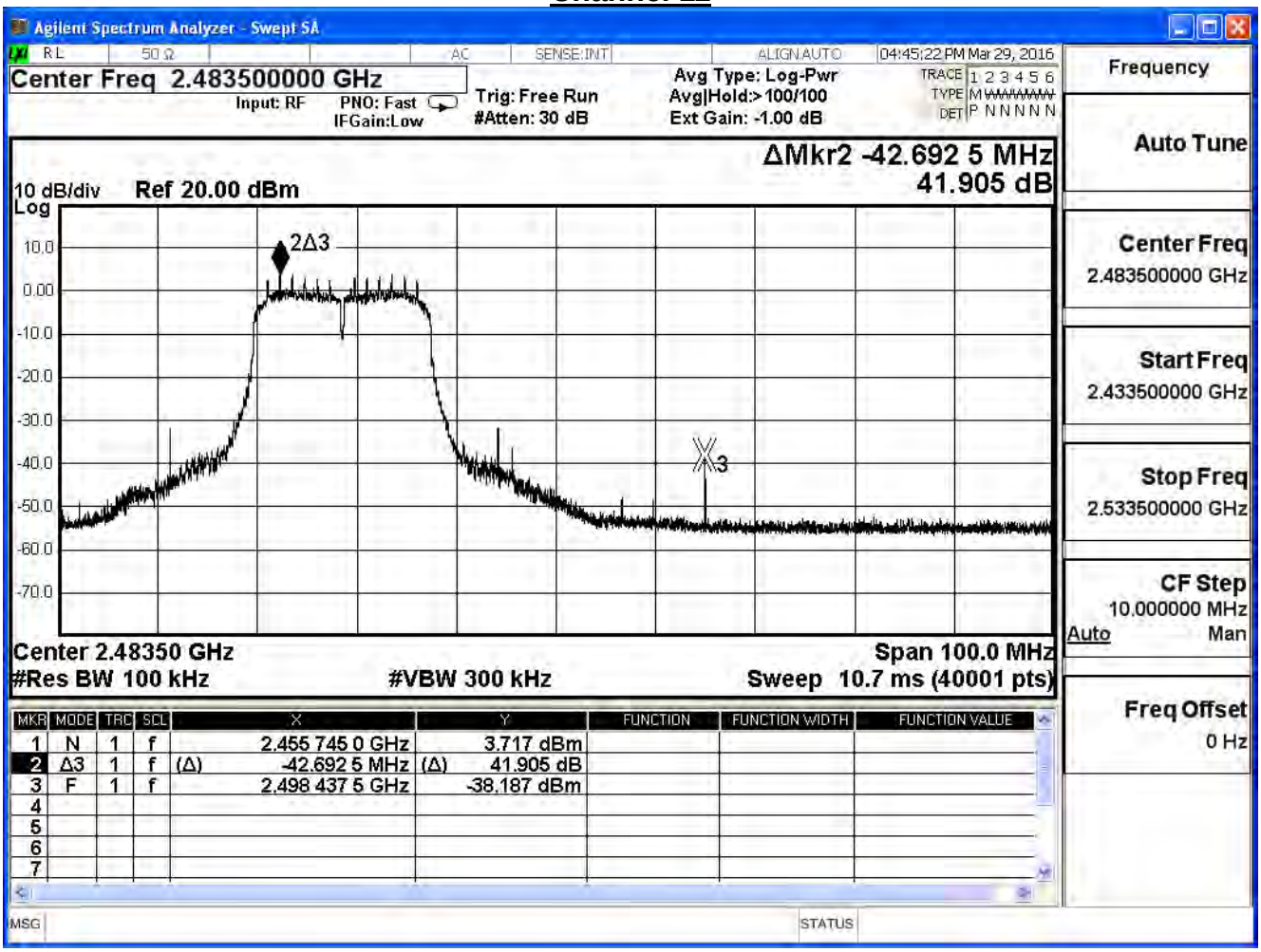
Channel 1



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: -1.00 dB
04:55:16 PM Mar 29, 2016
ΔMkr2 42.007 5 MHz
51.292 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 2.441 987 5 GHz 3.902 dBm
2 Δ3 1 f (Δ) 42.007 5 MHz (Δ) 51.292 dB
3 F 1 f 2.399 980 0 GHz -47.390 dBm
4 Δ5 1 f (Δ) -42.090 0 MHz (Δ) 57.605 dB
5 F 1 f 2.484 077 5 GHz -53.704 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

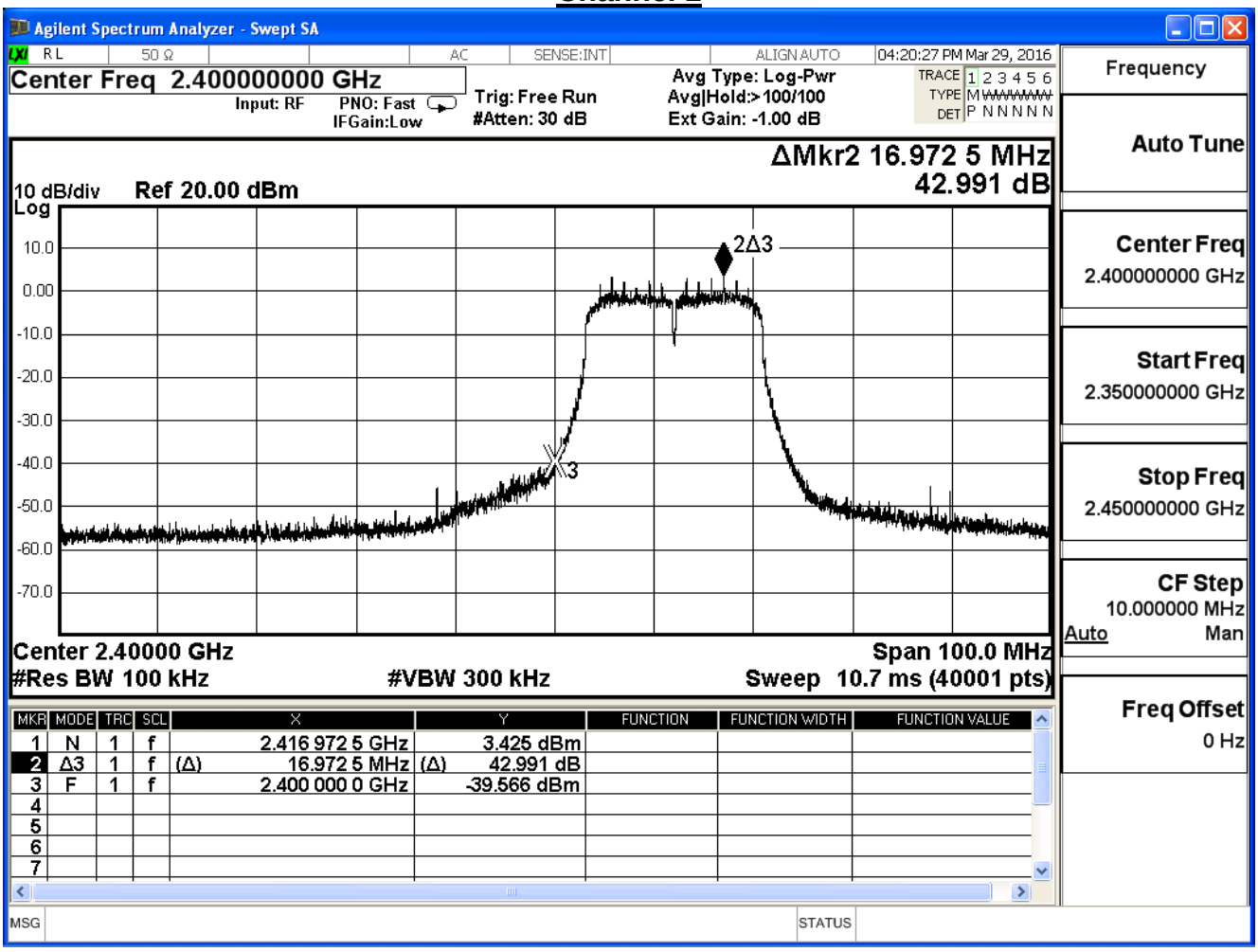
Channel 11


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: -1.00 dB
04:45:22 PM Mar 29, 2016
ΔMkr2 -42.692 5 MHz
41.905 dB
10 dB/div
Log
Ref 20.00 dBm
2Δ3
X3
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 2.455 745 0 GHz 3.717 dBm
2 Δ3 1 f (Δ) -42.692 5 MHz (Δ) 41.905 dB
3 F 1 f 2.498 437 5 GHz -38.187 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

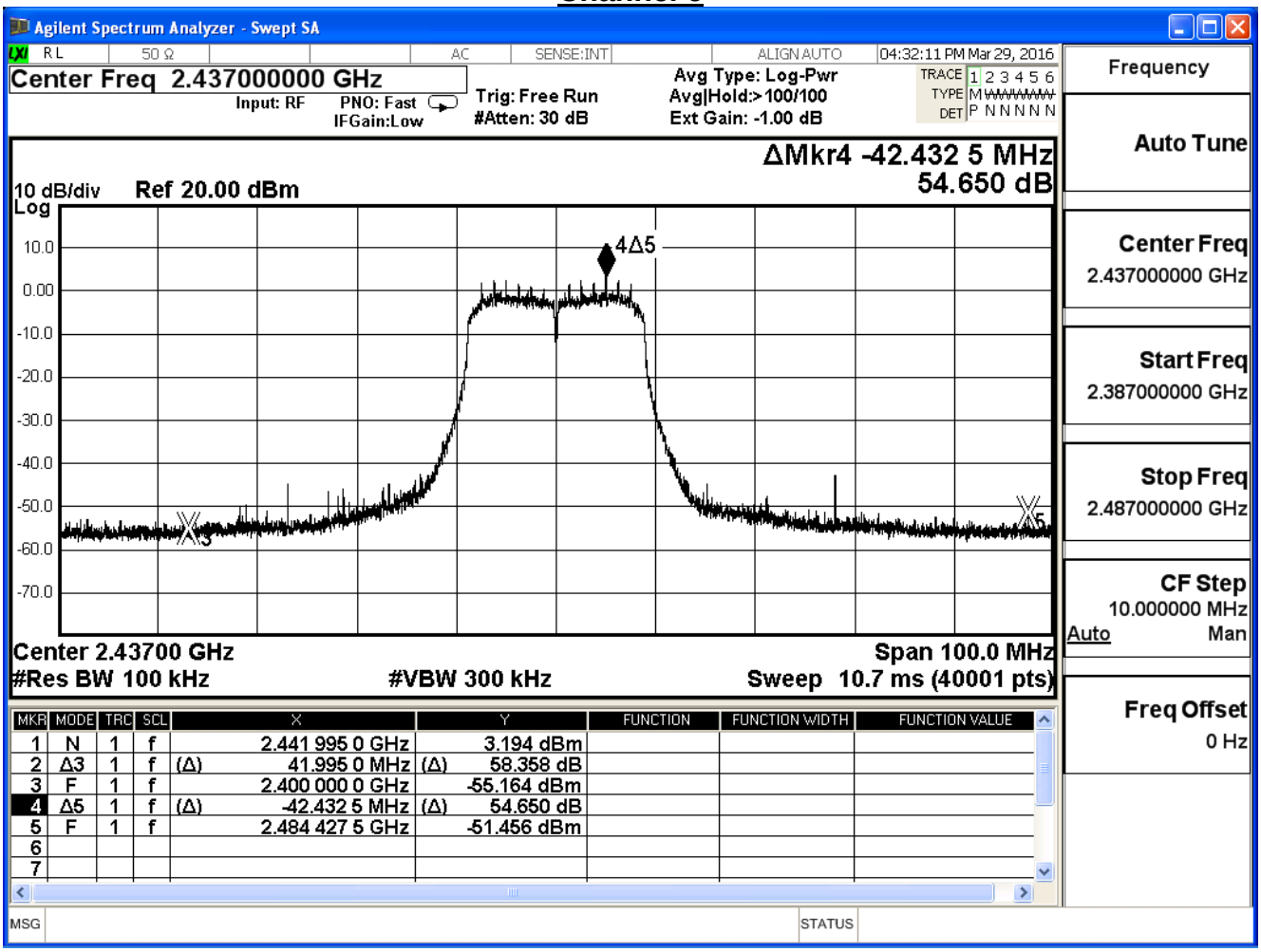
Product	Dual band AC1900 USB 3.0 Wi-Fi Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2016/03/29	Test Site	SR7

IEEE 802.11n_20M (ANT 1)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	42.991	≧30	Pass
6	2437	54.650	≧30	Pass
11	2462	54.874	≧30	Pass

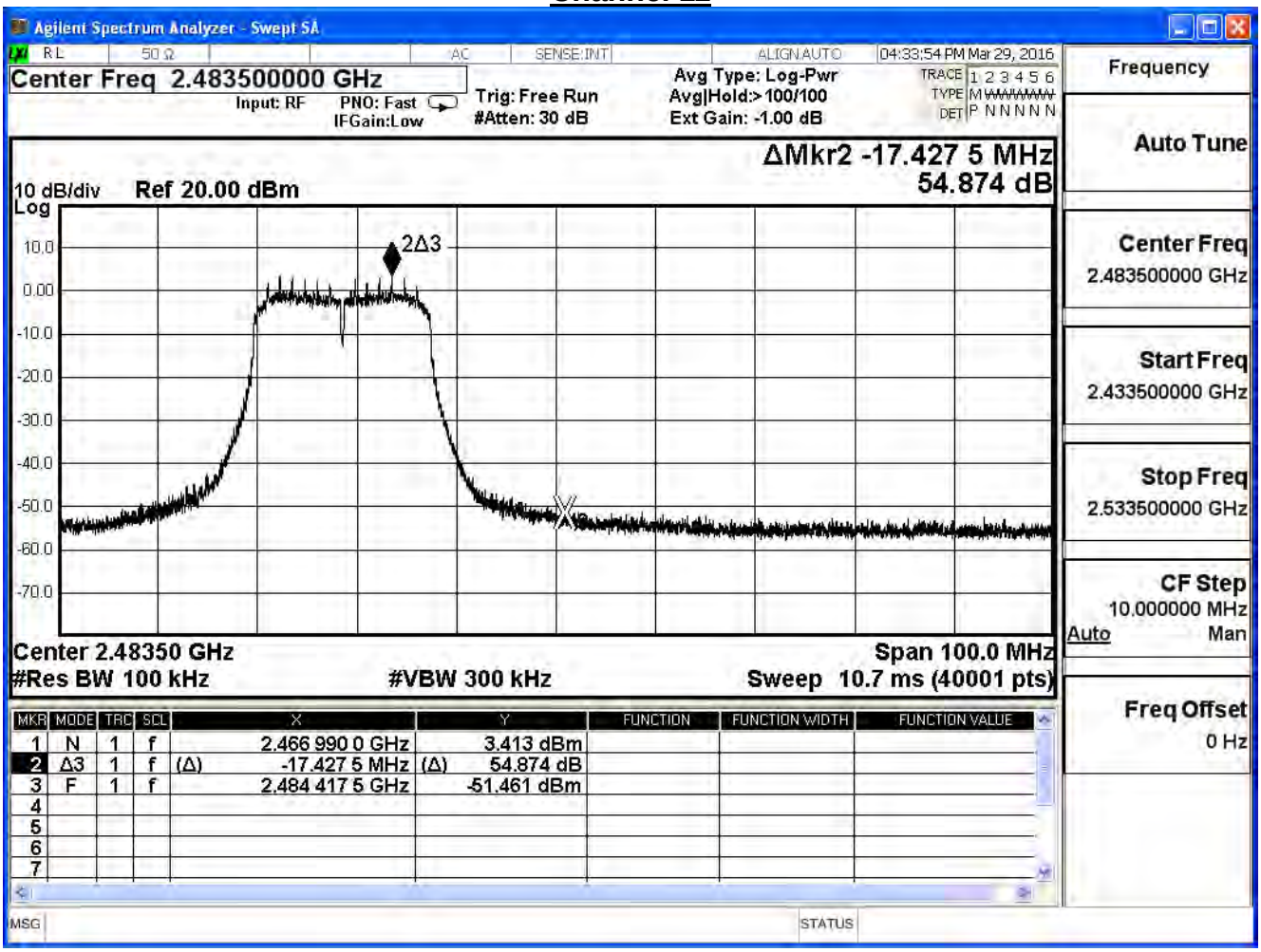
Channel 1



Channel 6


Agilent Spectrum Analyzer - Swept SA
RL
50 Ω
AC
SENSE:INT
ALIGN AUTO
04:32:11 PM Mar 29, 2016
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: -1.00 dB
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
ΔMkr4 -42.432 5 MHz
54.650 dB
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
4Δ5
Center 2.43700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 100.0 MHz
Sweep 10.7 ms (40001 pts)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.441 995 0 GHz 3.194 dBm
2 Δ3 1 f (Δ) 41.995 0 MHz (Δ) 58.358 dB
3 F 1 f 2.400 000 0 GHz -55.164 dBm
4 Δ5 1 f (Δ) -42.432 5 MHz (Δ) 54.650 dB
5 F 1 f 2.484 427 5 GHz -51.456 dBm
6
7
MSG
STATUS
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

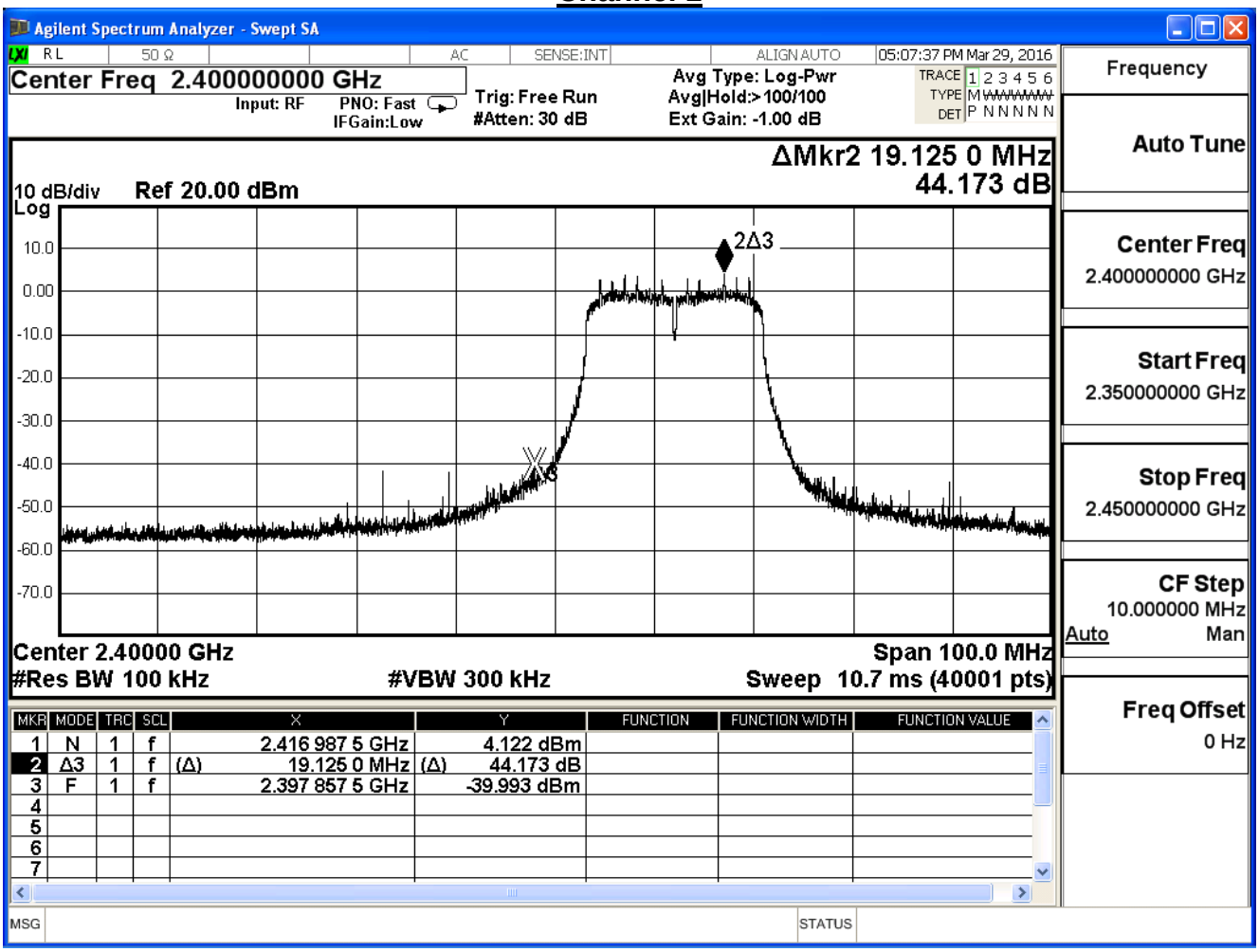
Channel 11


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: -1.00 dB
04:33:54 PM Mar 29, 2016
ΔMkr2 -17.427 5 MHz
54.874 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 2.466 990 0 GHz 3.413 dBm
2 Δ3 1 f (Δ) -17.427 5 MHz (Δ) 54.874 dB
3 F 1 f 2.484 417 5 GHz -51.461 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

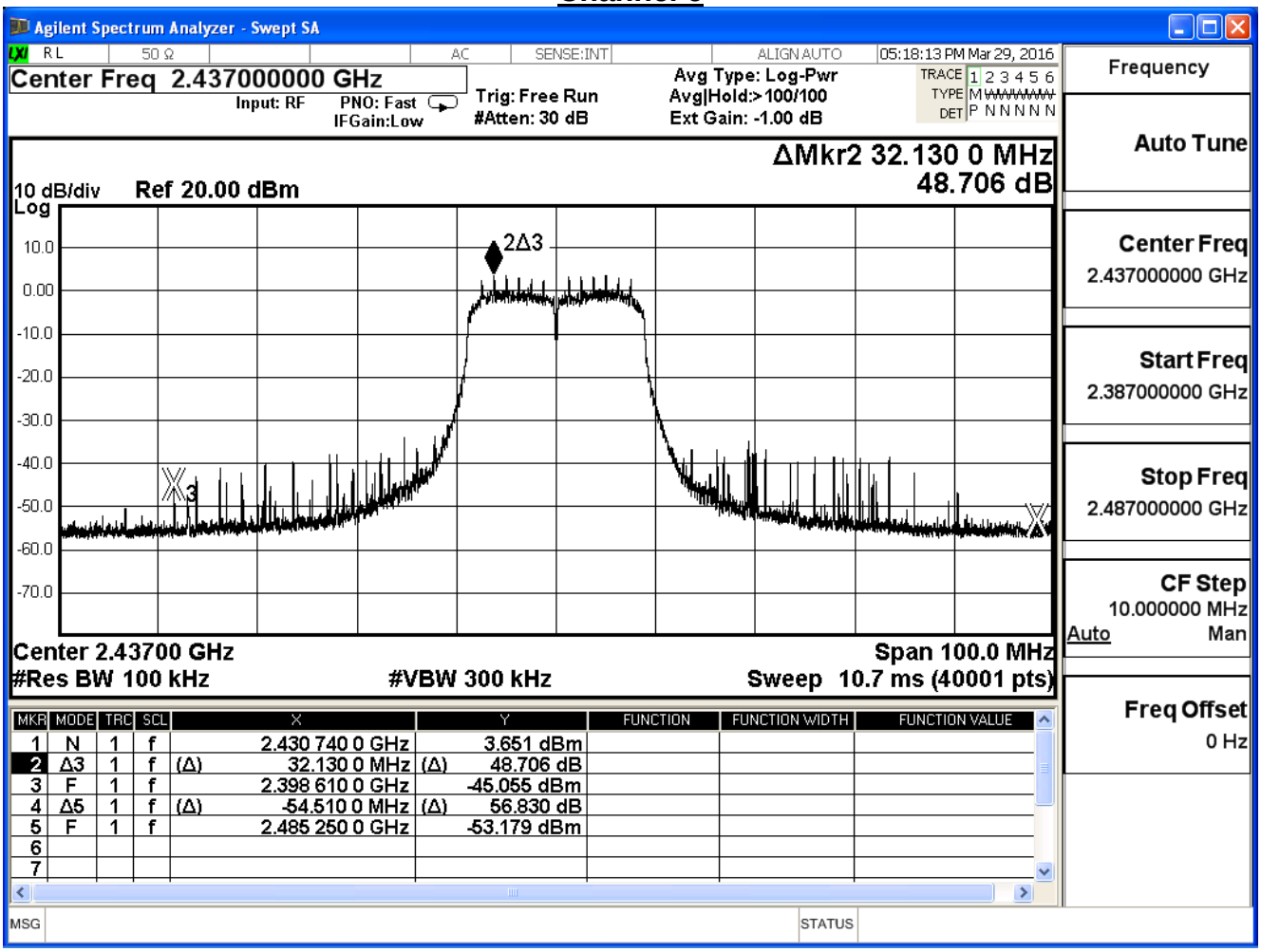
Product	Dual band AC1900 USB 3.0 Wi-Fi Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2016/03/29	Test Site	SR7

IEEE 802.11n_20M (ANT 2)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
1	2412	44.173	≧30	Pass
6	2437	48.706	≧30	Pass
11	2462	51.871	≧30	Pass

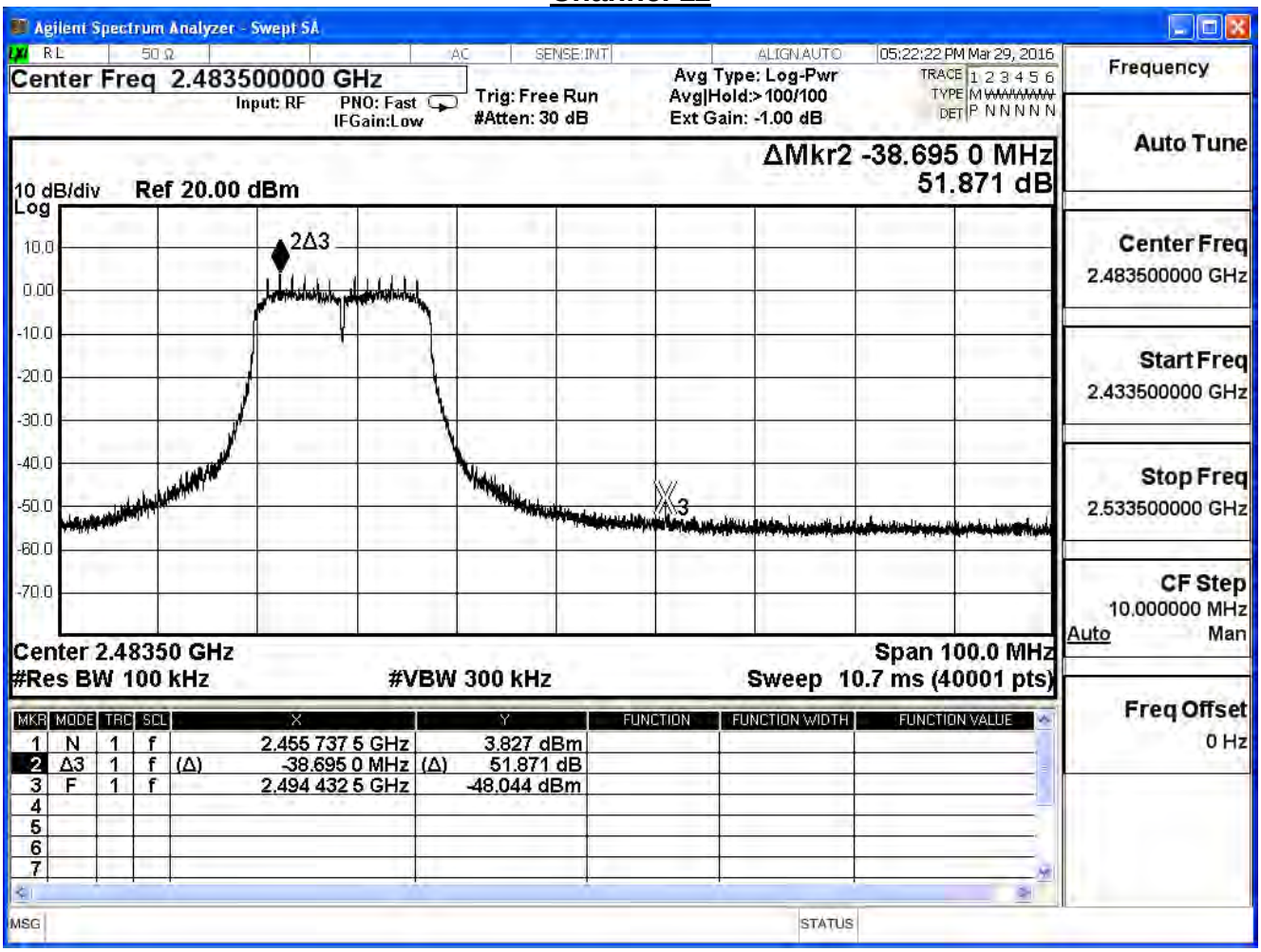
Channel 1



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: -1.00 dB
05:18:13 PM Mar 29, 2016
ΔMkr2 32.130 0 MHz
48.706 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)
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
1 N 1 f 2.430 740 0 GHz 3.651 dBm
2 Δ3 1 f (Δ) 32.130 0 MHz (Δ) 48.706 dB
3 F 1 f 2.398 610 0 GHz -45.055 dBm
4 Δ5 1 f (Δ) -54.510 0 MHz (Δ) 56.830 dB
5 F 1 f 2.485 250 0 GHz -53.179 dBm

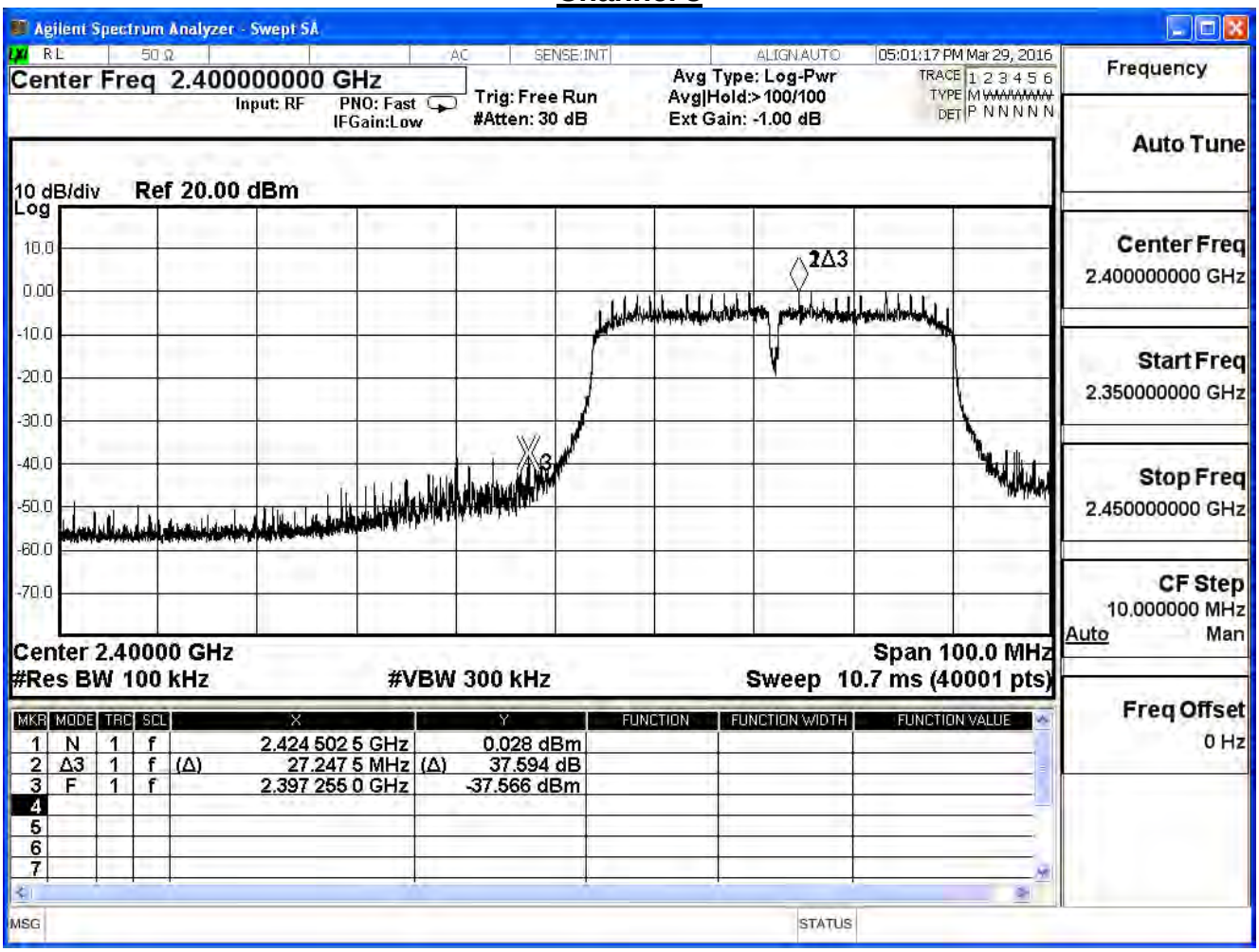
Channel 11


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: -1.00 dB
05:22:22 PM Mar 29, 2016
ΔMkr2 -38.695 0 MHz
51.871 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 2.455 737 5 GHz 3.827 dBm
2 Δ3 1 f (Δ) -38.695 0 MHz (Δ) 51.871 dB
3 F 1 f 2.494 432 5 GHz -48.044 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

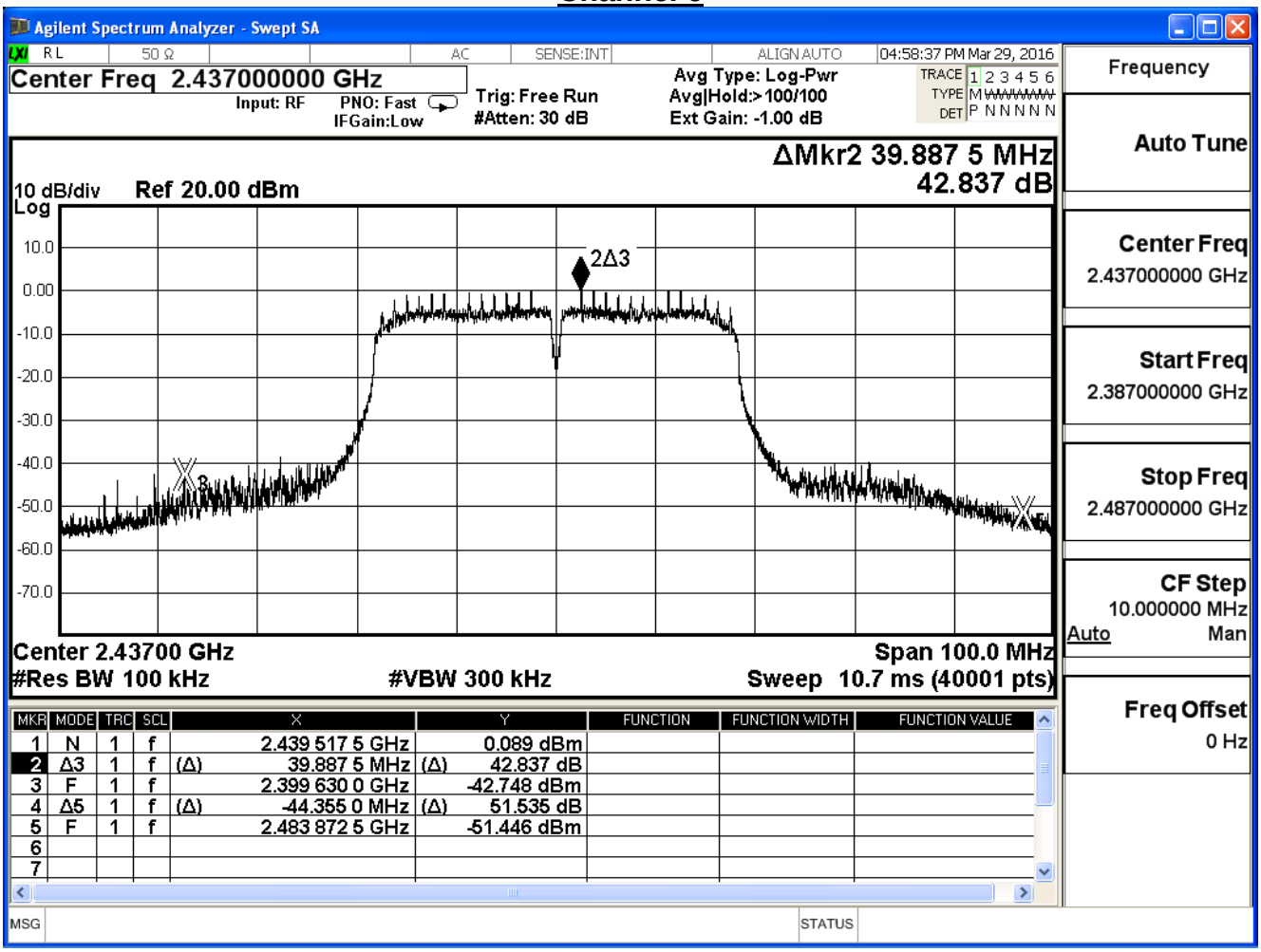
Product	Dual band AC1900 USB 3.0 Wi-Fi Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2016/03/29	Test Site	SR7

IEEE 802.11n_40M (ANT 0)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	37.594	≧30	Pass
6	2437	42.837	≧30	Pass
9	2452	41.129	≧30	Pass

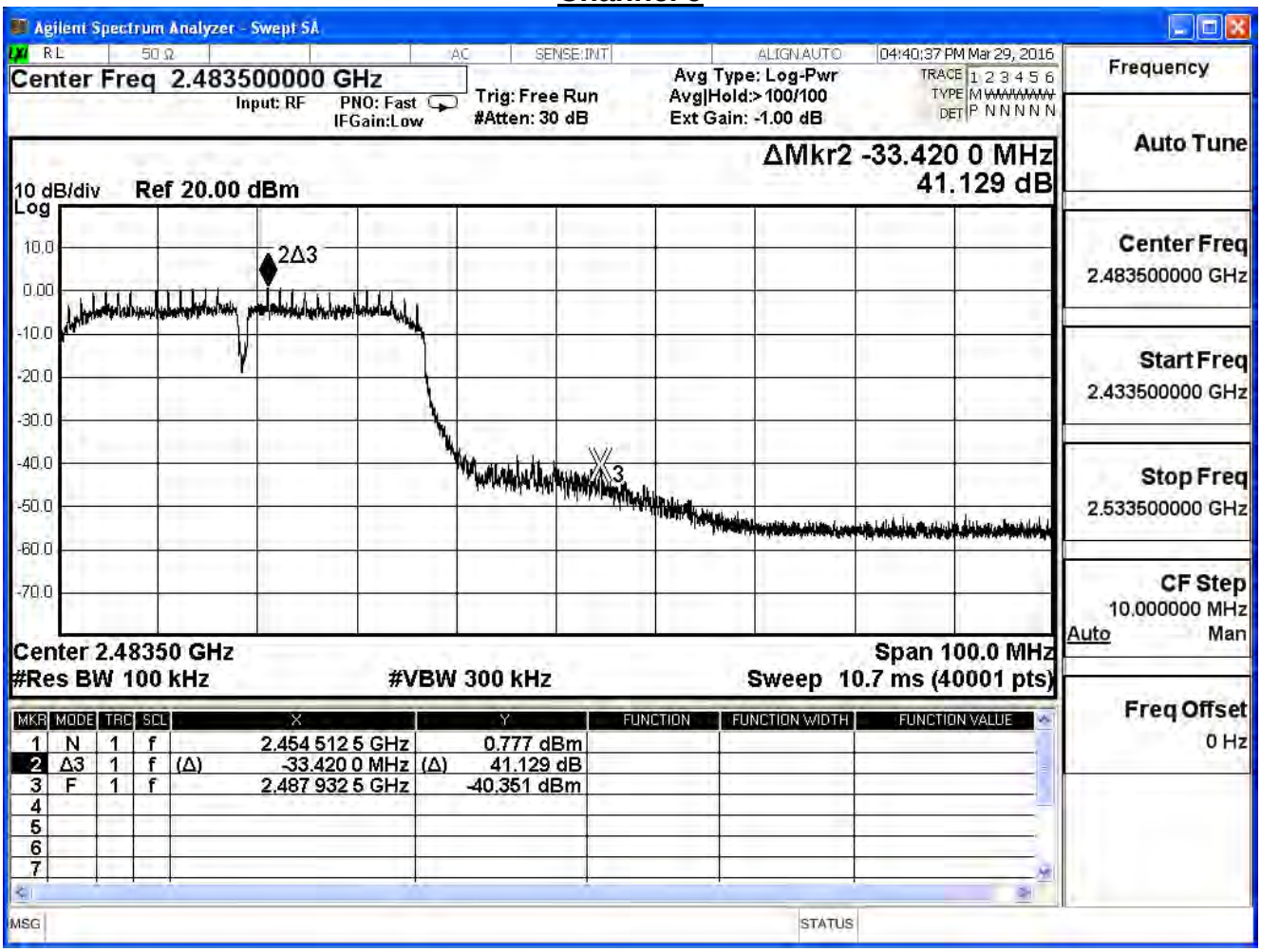
Channel 3



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: -1.00 dB
04:58:37 PM Mar 29, 2016
ΔMkr2 39.887 5 MHz
42.837 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 2.439 517 5 GHz 0.089 dBm
2 Δ3 1 f (Δ) 39.887 5 MHz (Δ) 42.837 dB
3 F 1 f 2.399 630 0 GHz -42.748 dBm
4 Δ5 1 f (Δ) -44.355 0 MHz (Δ) 51.535 dB
5 F 1 f 2.483 872 5 GHz -51.446 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

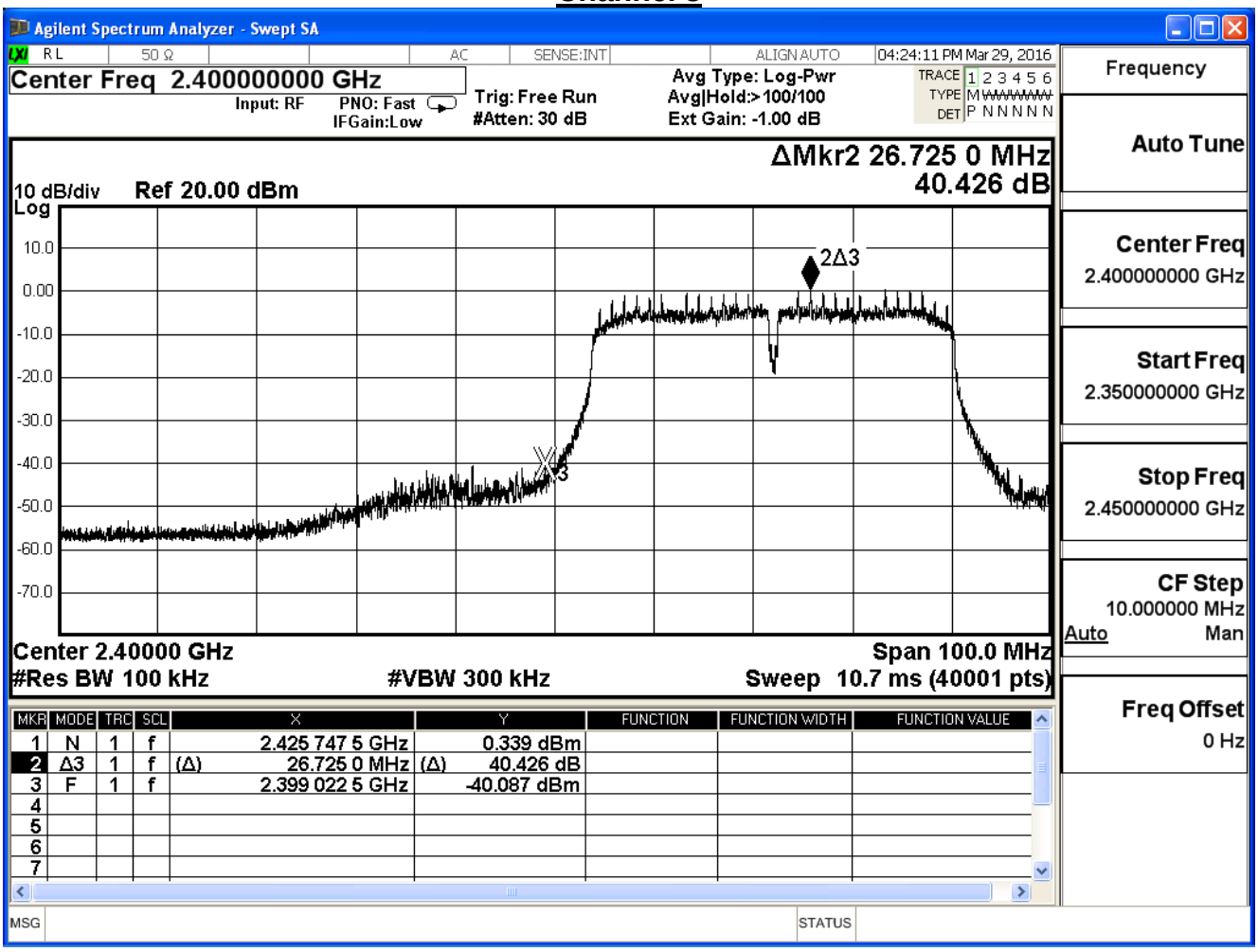
Channel 9


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: -1.00 dB
04:40:37 PM Mar 29, 2016
ΔMkr2 -33.420 0 MHz
41.129 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 2.454 512 5 GHz 0.777 dBm
2 Δ3 1 f (Δ) -33.420 0 MHz (Δ) 41.129 dB
3 F 1 f 2.487 932 5 GHz -40.351 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

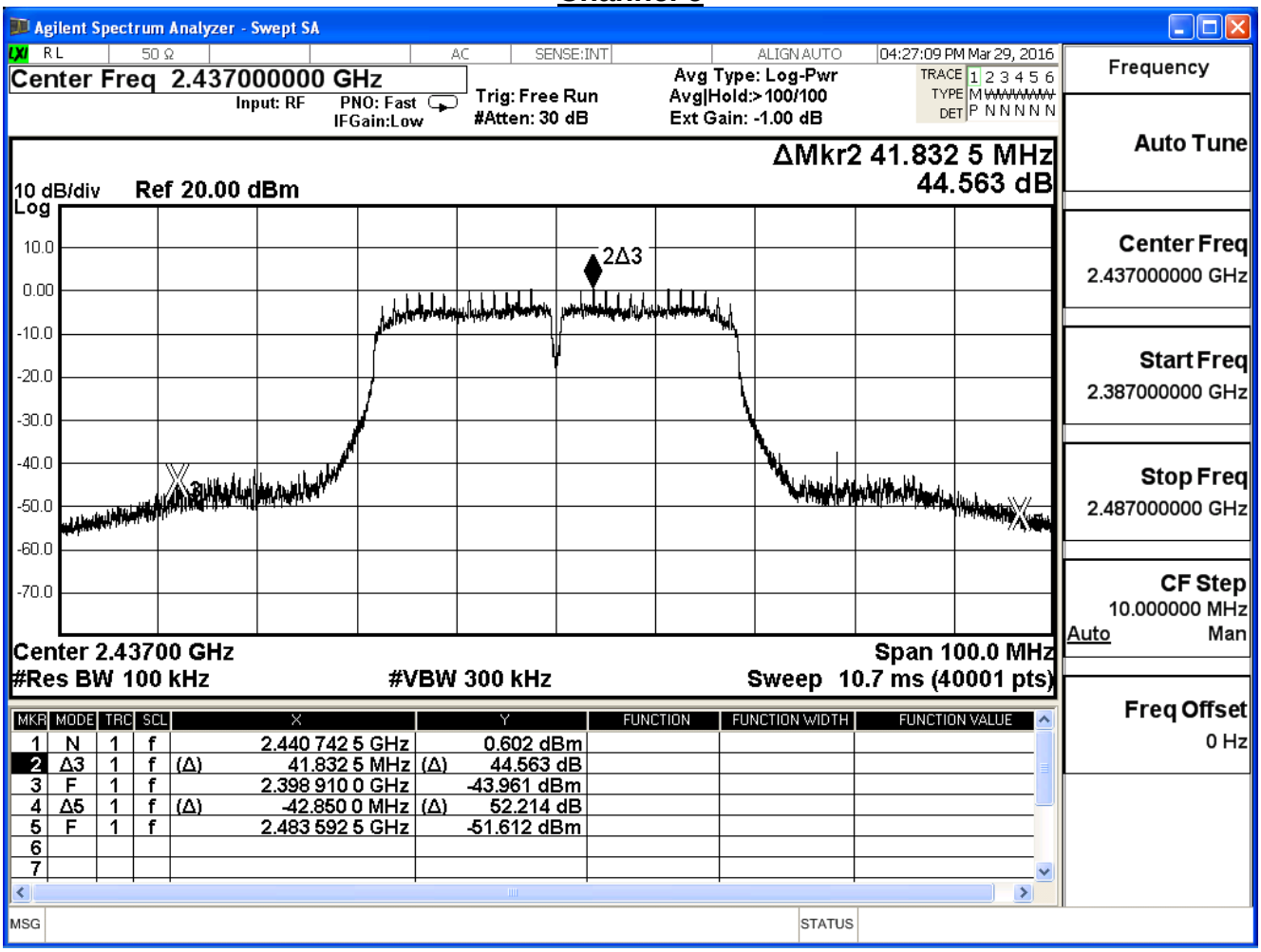
Product	Dual band AC1900 USB 3.0 Wi-Fi Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2016/03/29	Test Site	SR7

IEEE 802.11n_40M (ANT 1)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	40.426	≧30	Pass
6	2437	44.563	≧30	Pass
9	2452	42.760	≧30	Pass

Channel 3

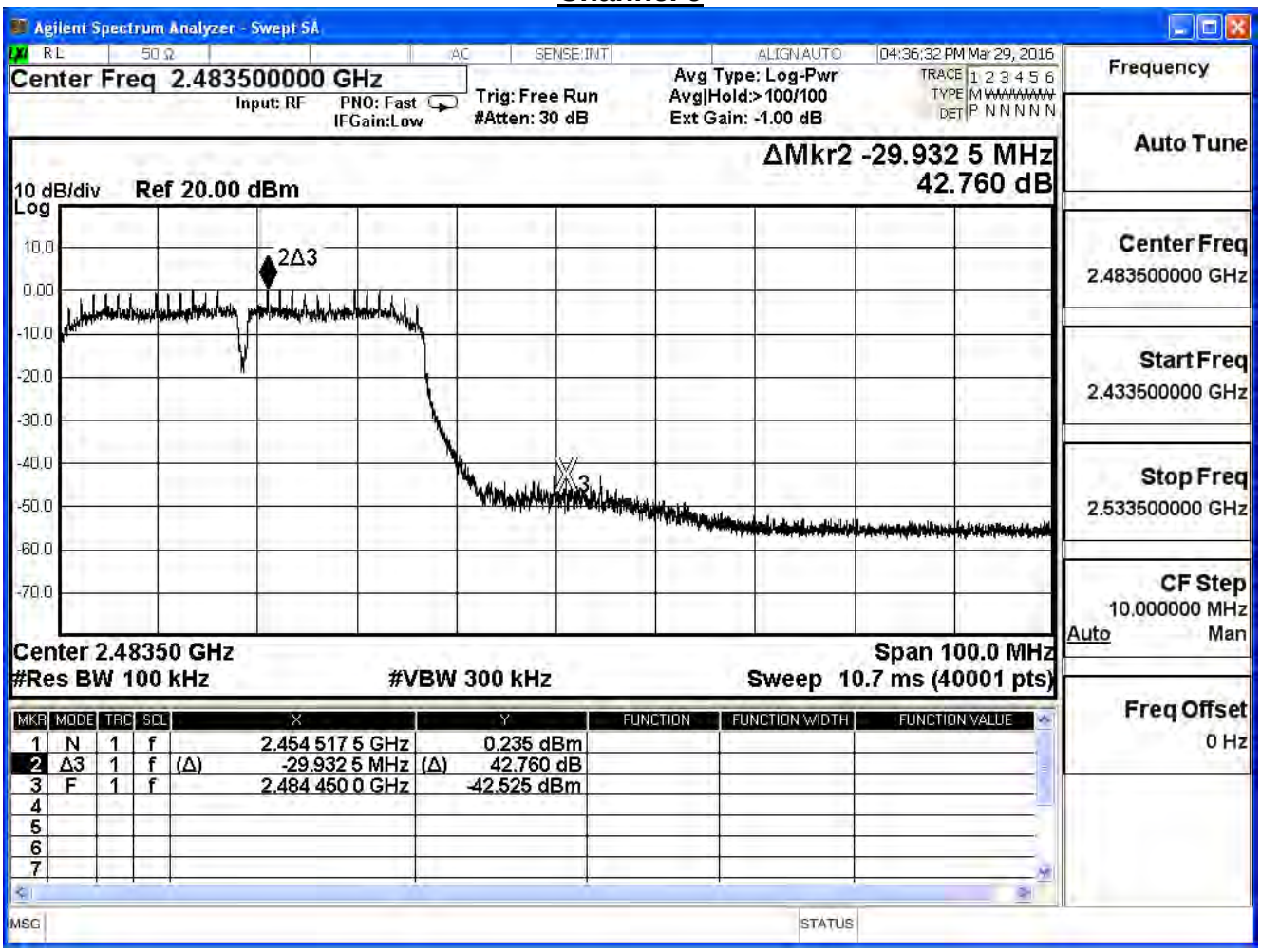


Channel 6



MKR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	2.440 742 5 GHz	0.602 dBm			
2	Δ3	1	f	(Δ) 41.832 5 MHz	(Δ) 44.563 dB			
3	F	1	f	2.398 910 0 GHz	-43.961 dBm			
4	Δ5	1	f	(Δ) -42.850 0 MHz	(Δ) 52.214 dB			
5	F	1	f	2.483 592 5 GHz	-51.612 dBm			
6								
7								

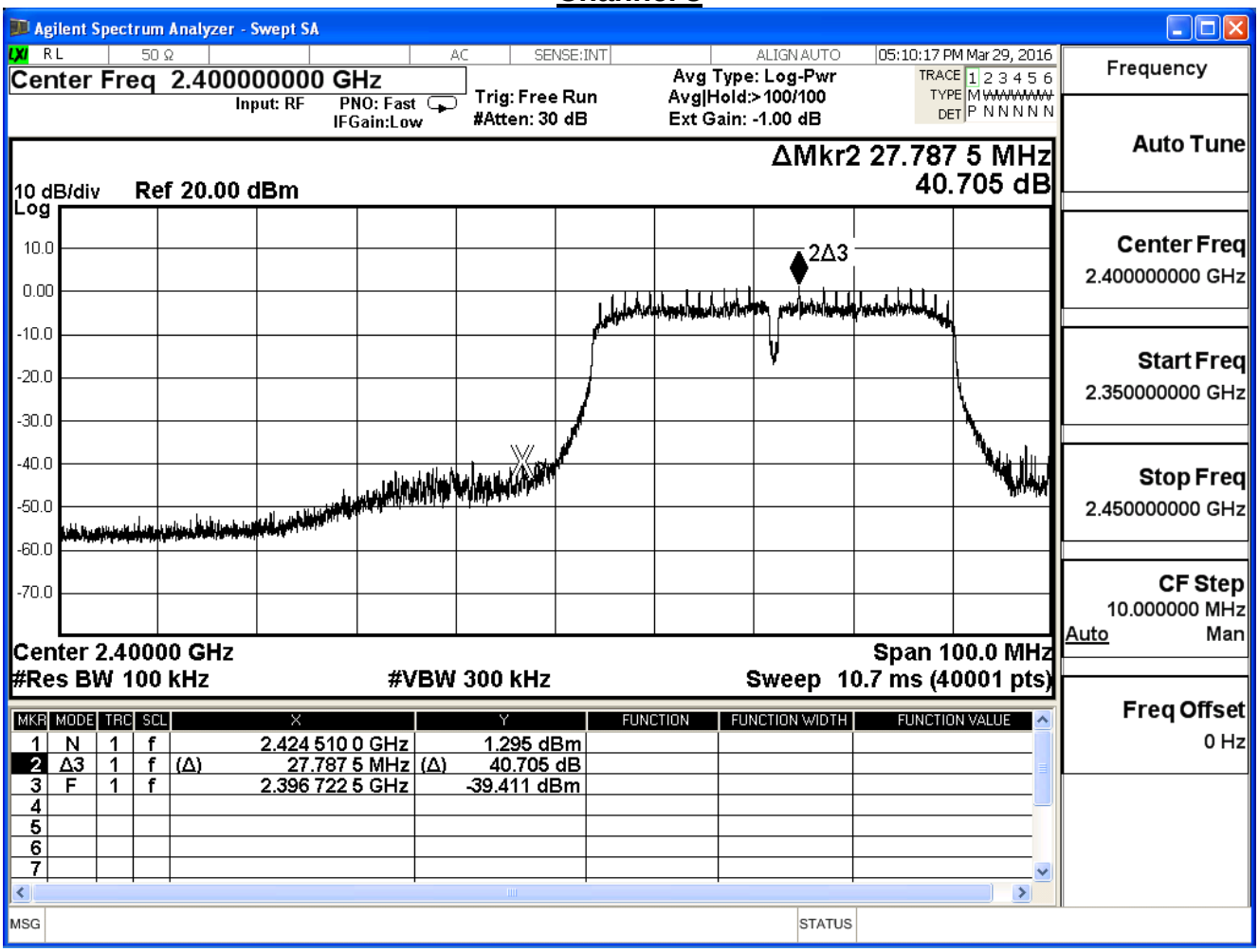
Channel 9


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: -1.00 dB
04:36:32 PM Mar 29, 2016
ΔMkr2 -29.932 5 MHz
42.760 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 2.454 517 5 GHz 0.235 dBm
2 Δ3 1 f (Δ) -29.932 5 MHz (Δ) 42.760 dB
3 F 1 f 2.484 450 0 GHz -42.525 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

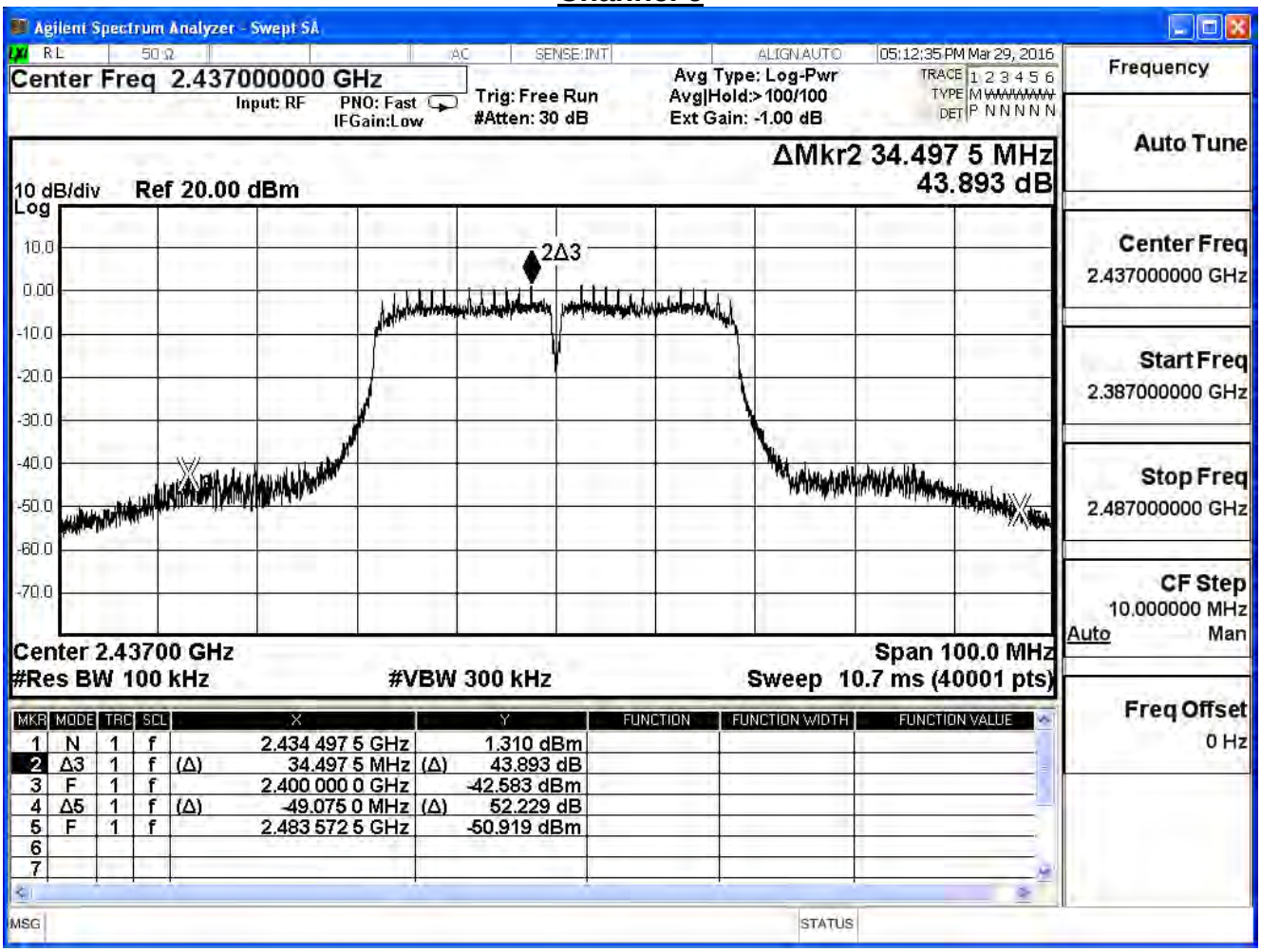
Product	Dual band AC1900 USB 3.0 Wi-Fi Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 2: Transmit_MIMO Mode		
Date of Test	2016/03/29	Test Site	SR7

IEEE 802.11n_40M (ANT 2)				
Channel	Frequency (MHz)	Measure Level (dBc)	Limit (dBc)	Result
3	2422	40.705	≧30	Pass
6	2437	43.893	≧30	Pass
9	2452	41.094	≧30	Pass

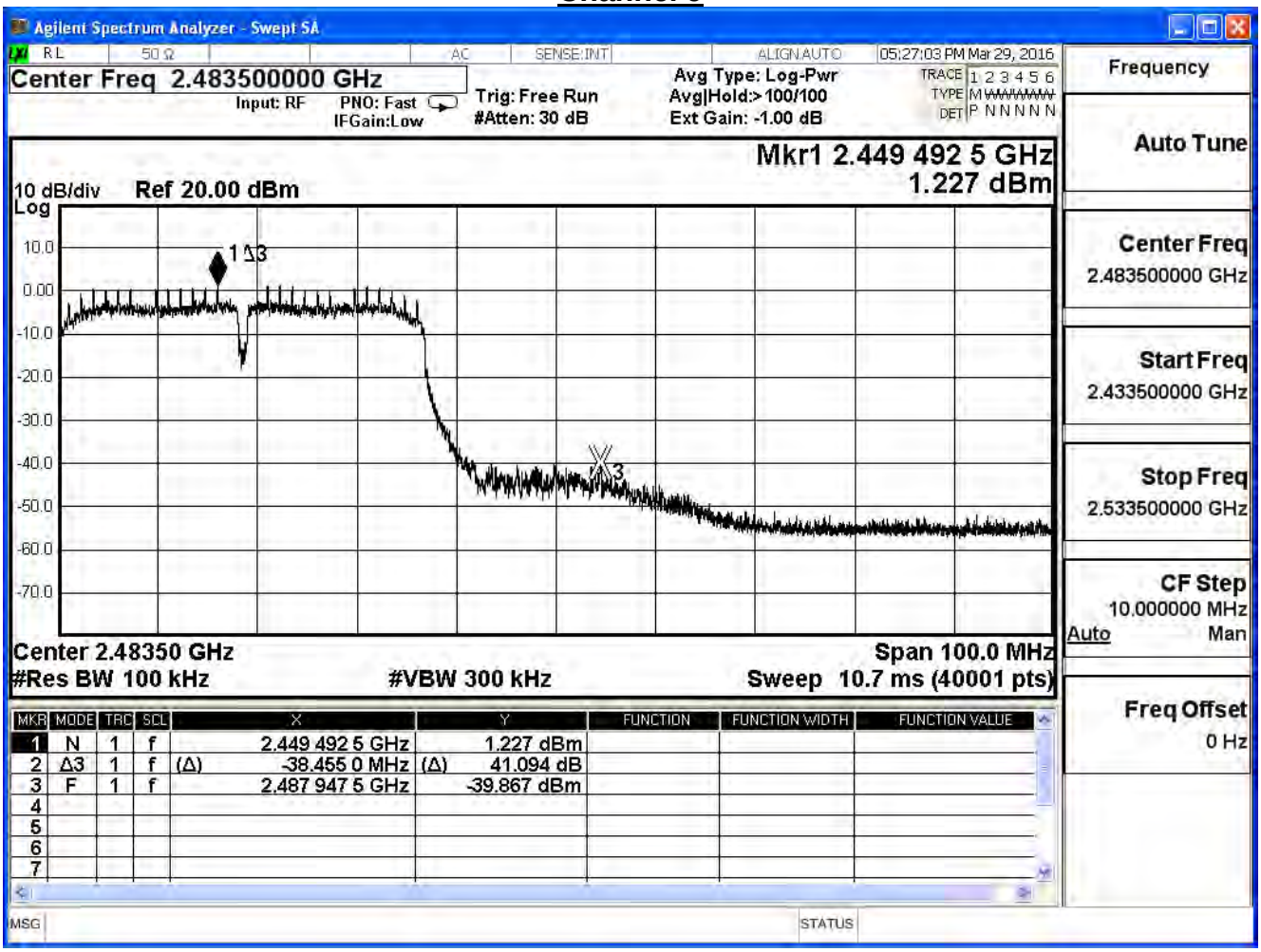
Channel 3



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: -1.00 dB
05:12:35 PM Mar 29, 2016
ΔMkr2 34.497 5 MHz
43.893 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)
MKR MODE TRC SCL X Y FUNCTION FUNCTION WIDTH FUNCTION VALUE
1 N 1 f 2.434 497 5 GHz 1.310 dBm
2 Δ3 1 f (Δ) 34.497 5 MHz (Δ) 43.893 dB
3 F 1 f 2.400 000 0 GHz -42.583 dBm
4 Δ5 1 f (Δ) -49.075 0 MHz (Δ) 52.229 dB
5 F 1 f 2.483 572 5 GHz -50.919 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
MSG
STATUS

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: -1.00 dB
05:27:03 PM Mar 29, 2016
Mkr1 2.449 492 5 GHz
1.227 dBm
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 2.449 492 5 GHz 1.227 dBm
2 Δ3 1 f (Δ) -38.455 0 MHz (Δ) 41.094 dB
3 F 1 f 2.487 947 5 GHz -39.867 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