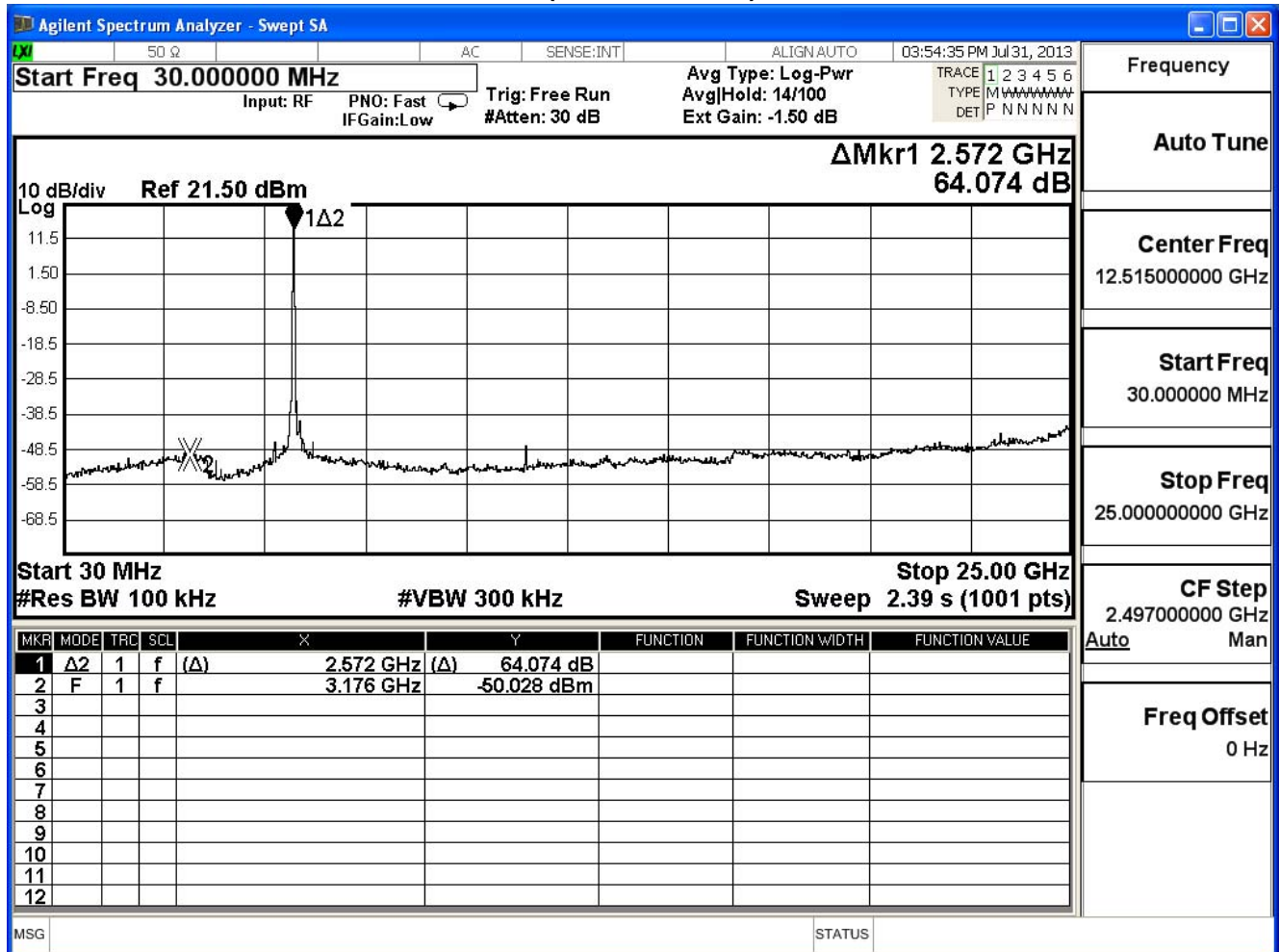
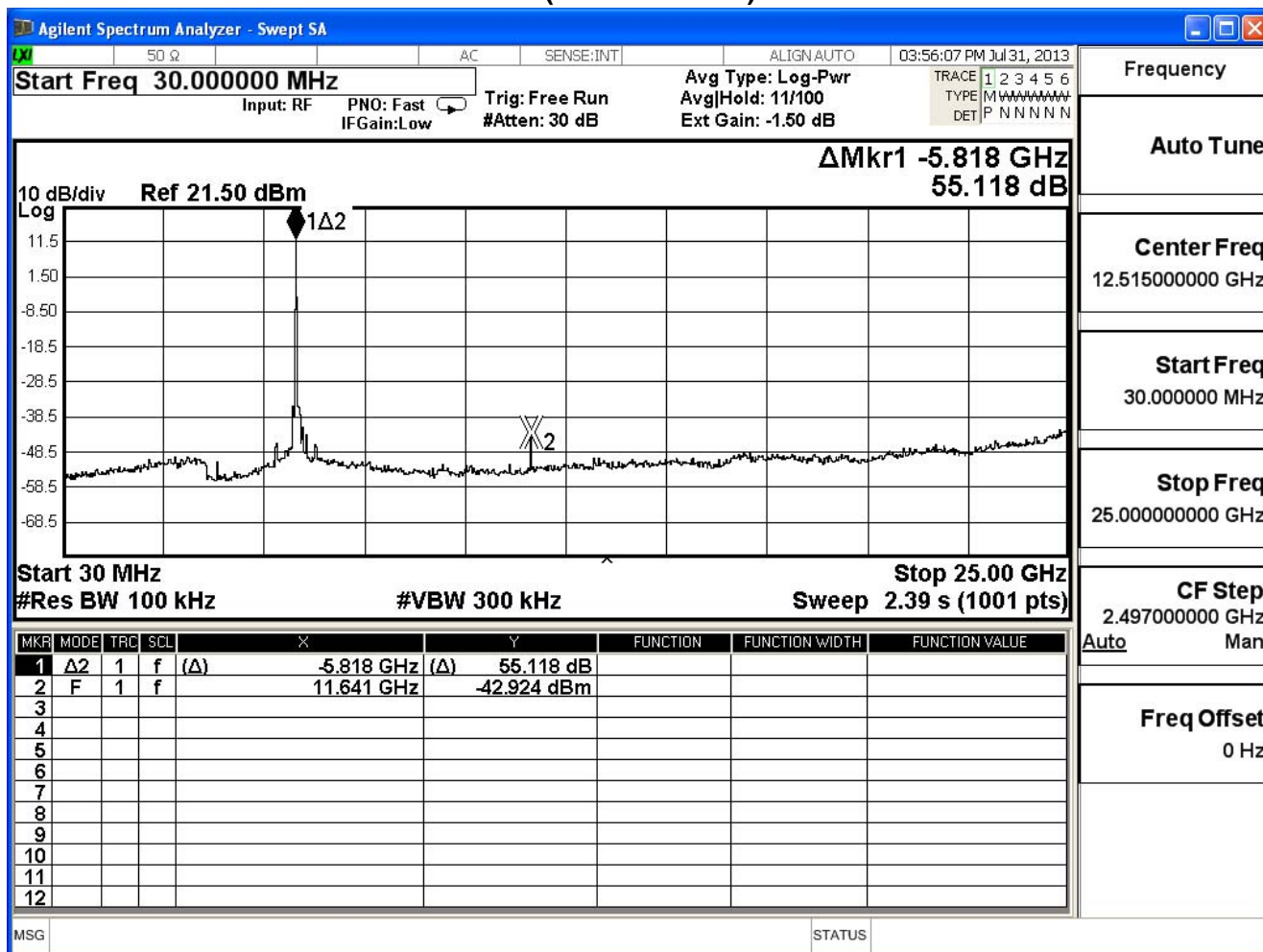


Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/07/26	Test Site	SR7

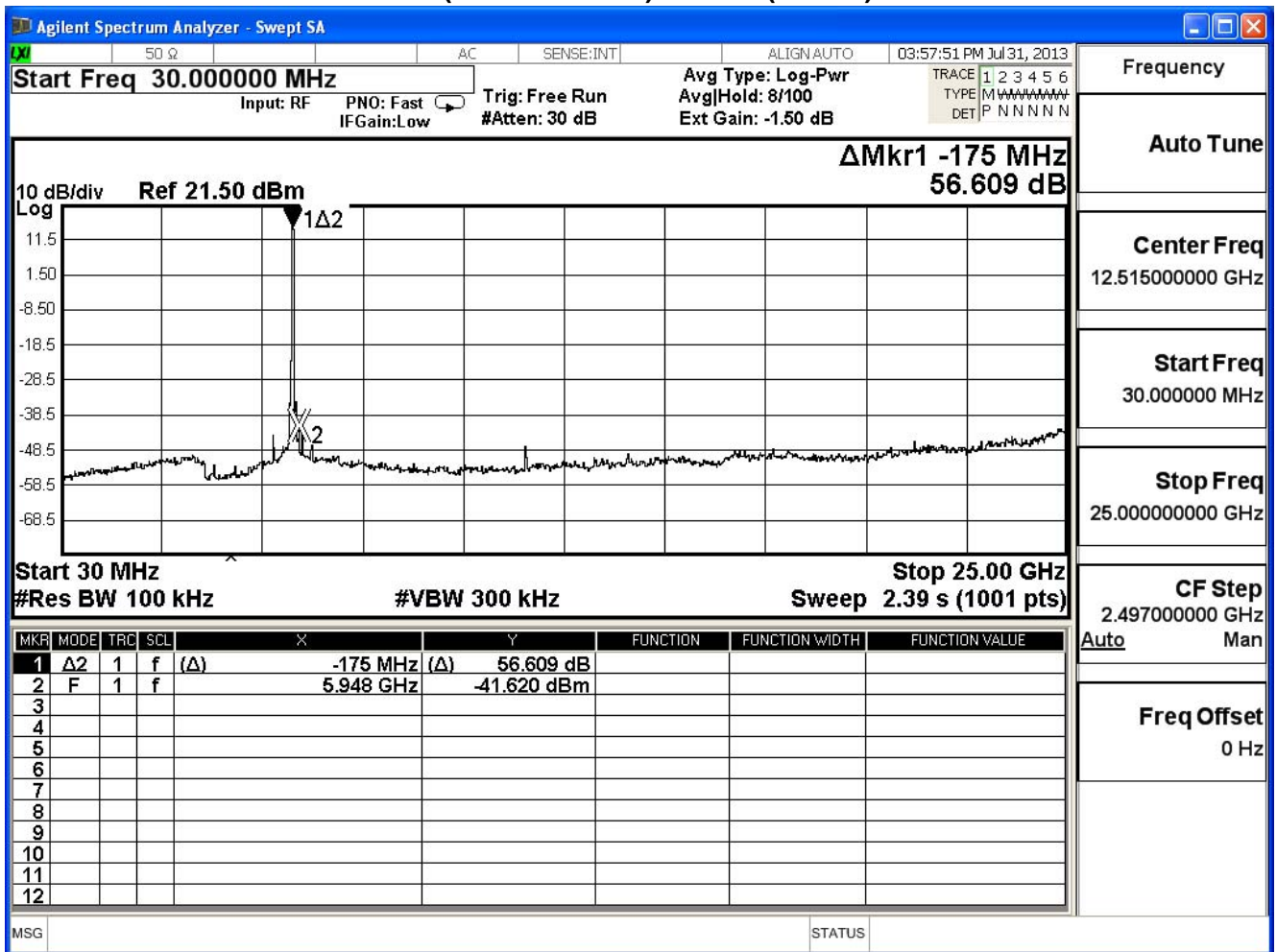
### 5745MHz (30MHz~25GHz)-802.11a



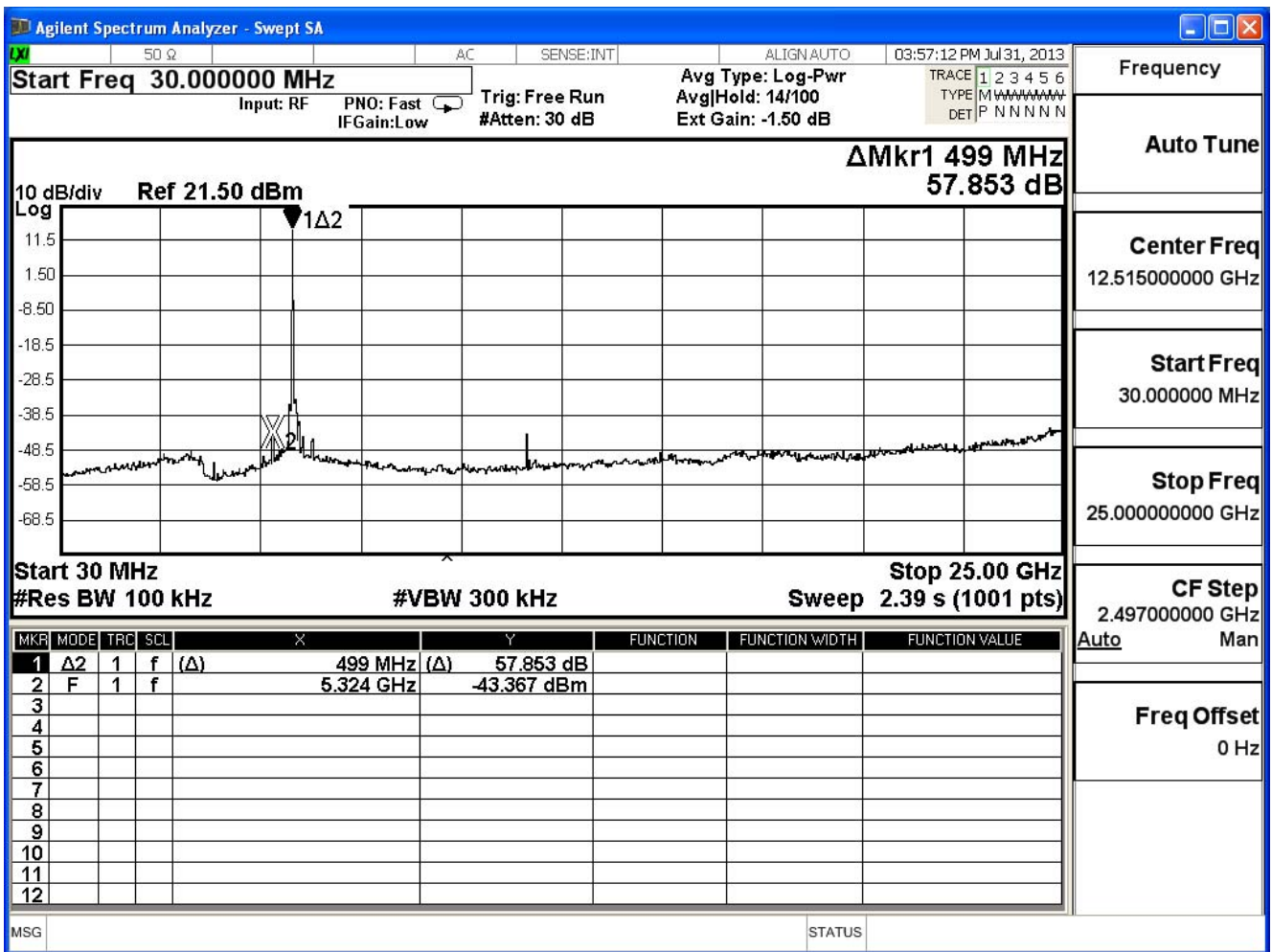
5825MHz (30MHz~25GHz)-802.11a



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



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



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

**Agilent Spectrum Analyzer - Swept SA** 04:05:57 PM Jul 31, 2013

---

**Start Freq 30.000000 MHz** AC SENSE:INT ALIGN AUTO Avg Type: Log-Pwr TRACE 1 2 3 4 5 6

Input: RF PNO: Fast Trig: Free Run Avg|Hold: 8/100 TYPE M W W W W W W W

IFGain:Low #Atten: 30 dB Ext Gain: -1.50 dB DET P N N N N N

---

**10 dB/div Ref 21.50 dBm**

**ΔMkr1 -5.793 GHz**  
**59.860 dB**

**Auto Tune**

**Center Freq**  
12.515000000 GHz

**Start Freq**  
30.000000 MHz

**Stop Freq**  
25.000000000 GHz

**CF Step**  
2.497000000 GHz

**Freq Offset**  
0 Hz

---

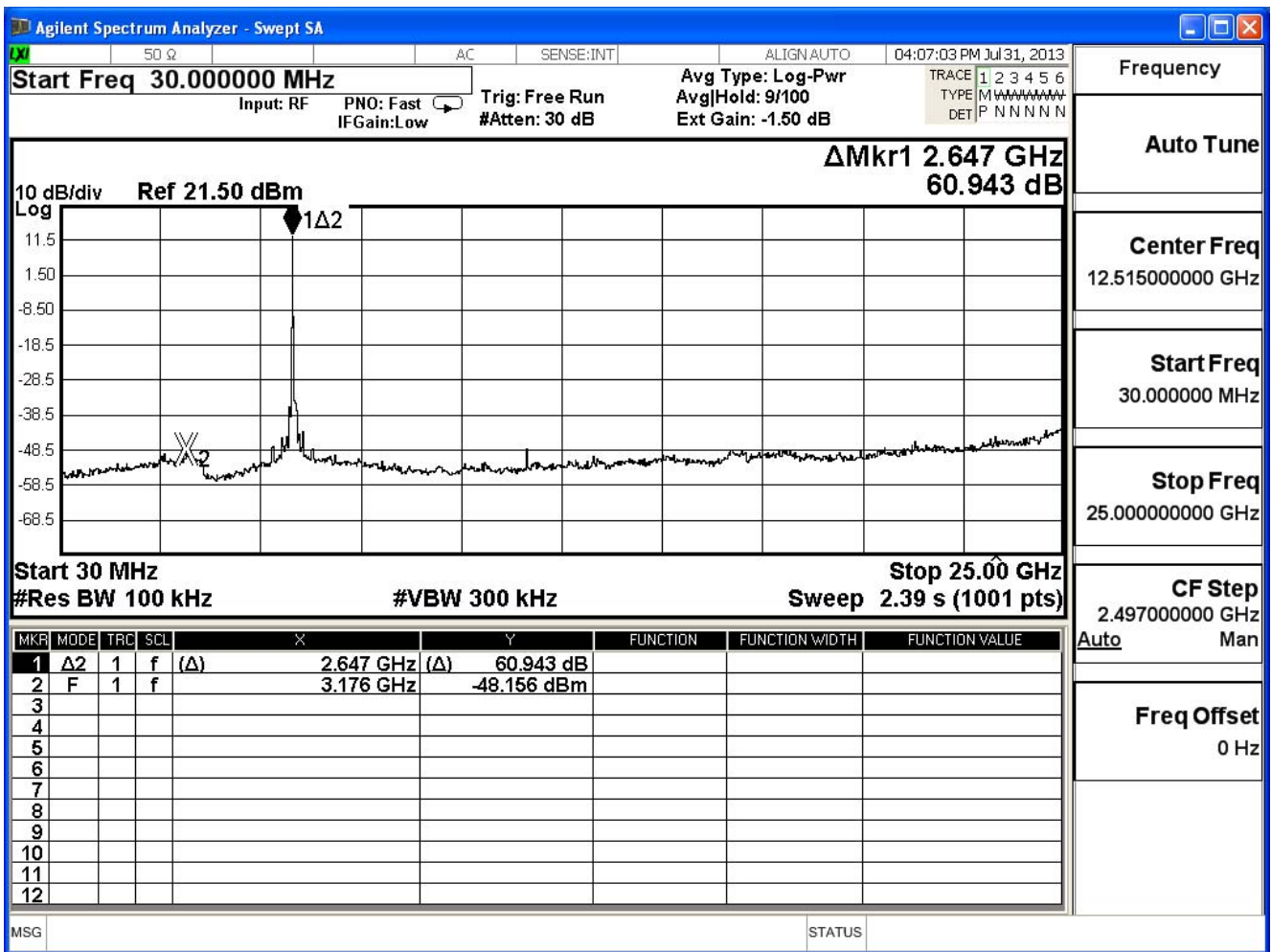
**Start 30 MHz** #VBW 300 kHz Stop 25.00 GHz  
**#Res BW 100 kHz** Sweep 2.39 s (1001 pts)

MKR	MODE	TRC	SCL	X		Y		FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	Δ2	1	f	(Δ)	-5.793 GHz	(Δ)	59.860 dB			
2	F	1	f		11.566 GHz		-47.073 dBm			
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										

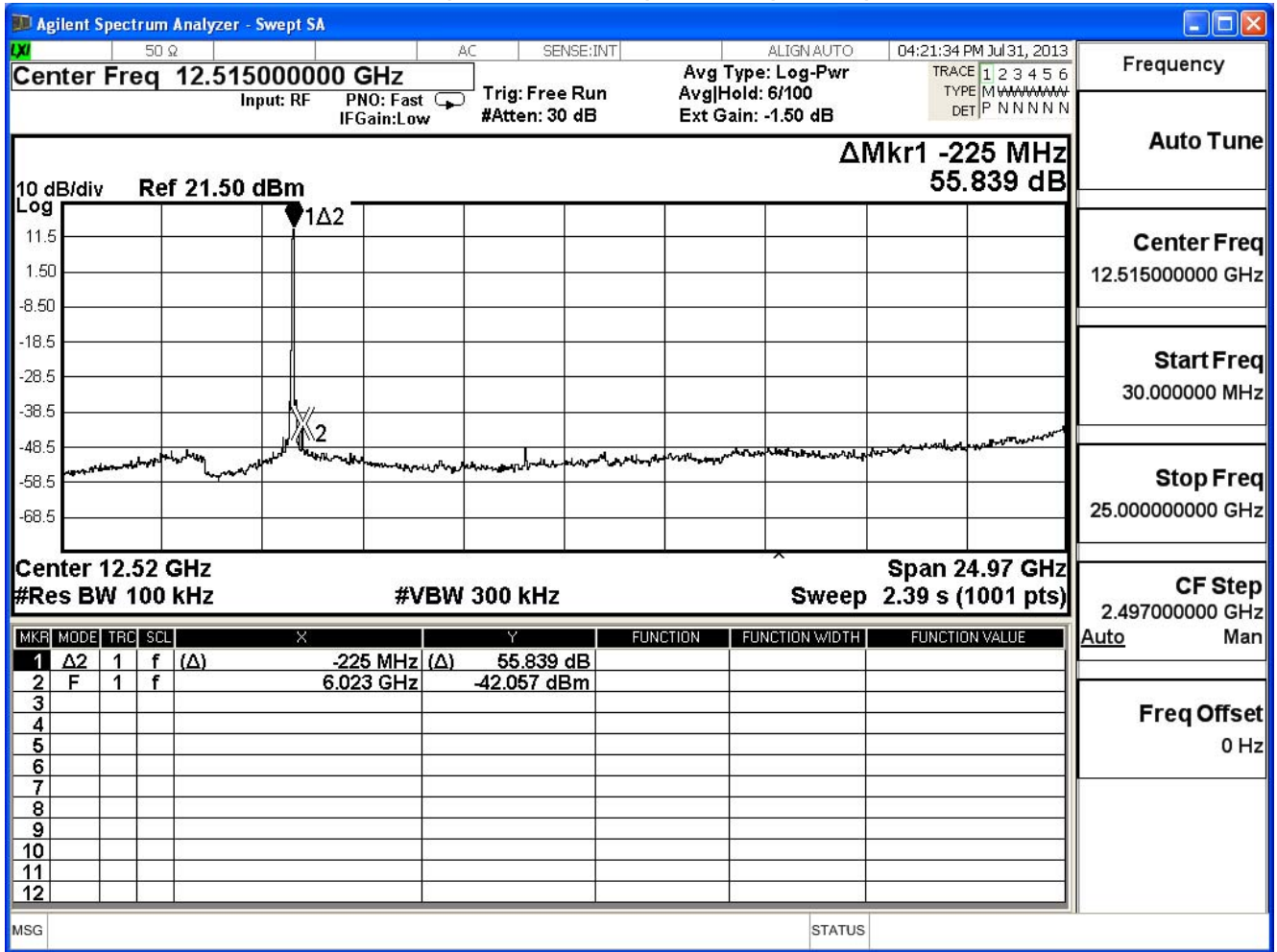
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**MSG** STATUS

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

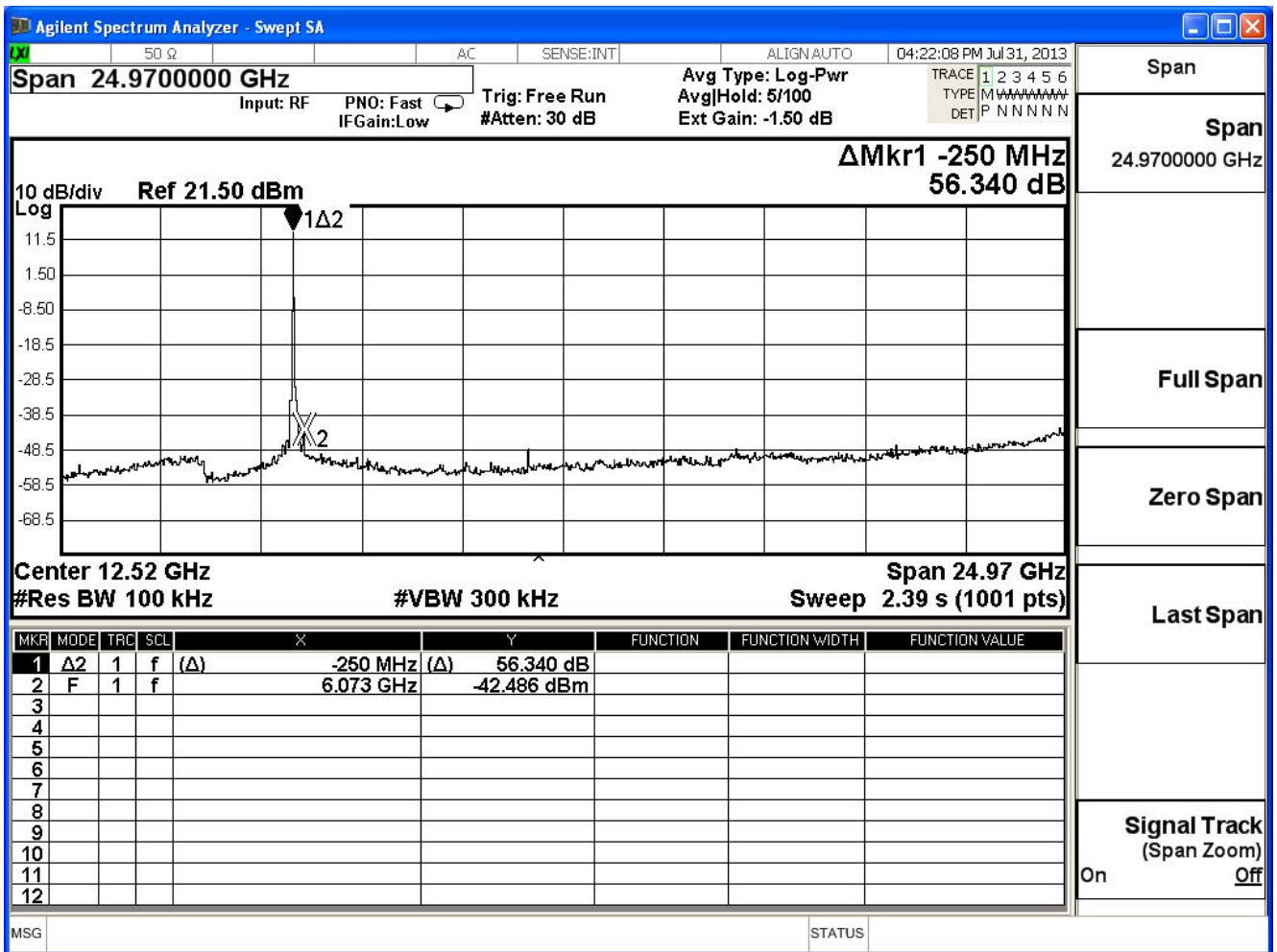


5745MHz (30MHz~25GHz)-802.11n(20MHz)-ANT 2



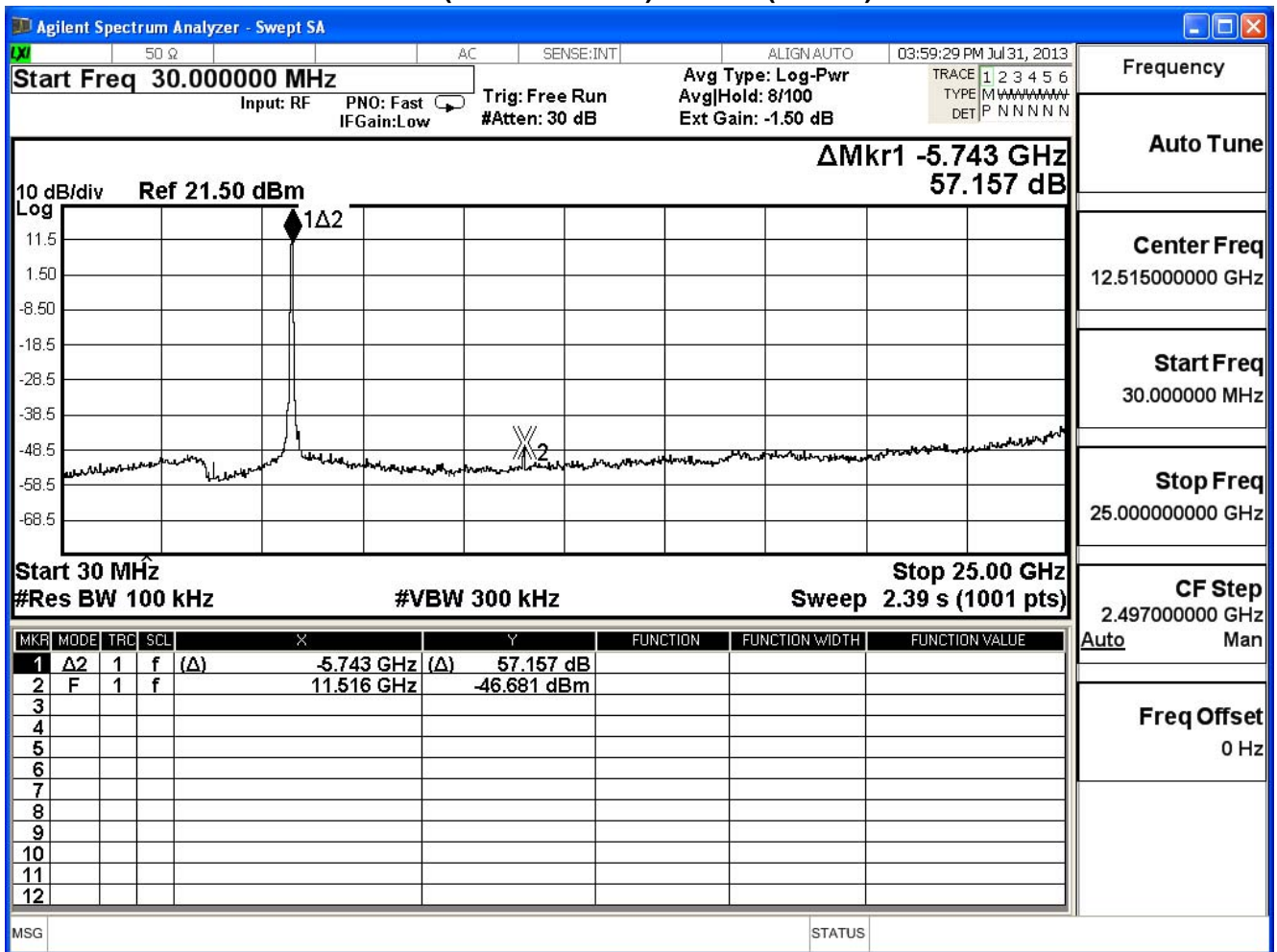


## 5825MHz (30MHz~25GHz) -802.11n(20MHz)-ANT 2

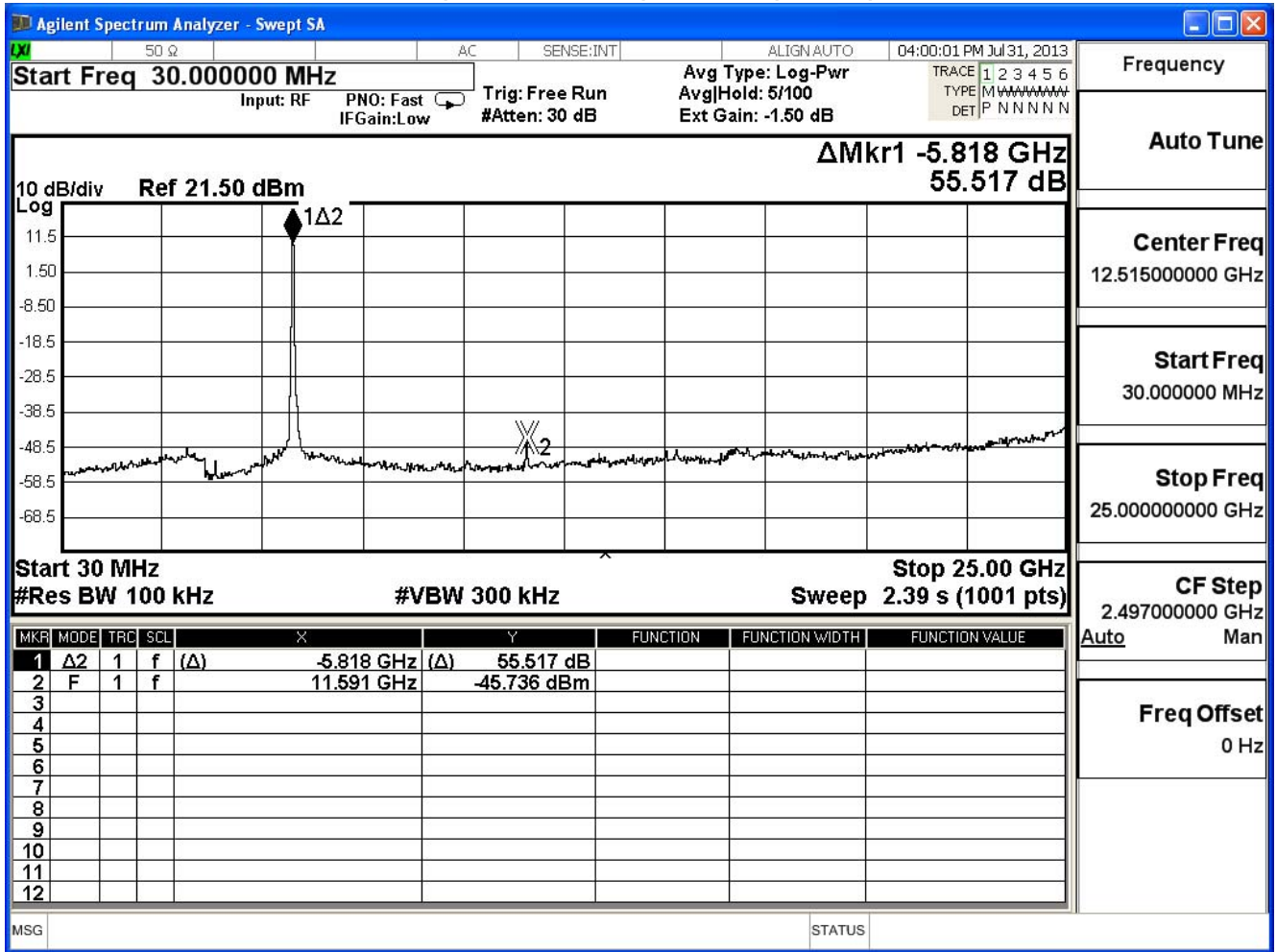




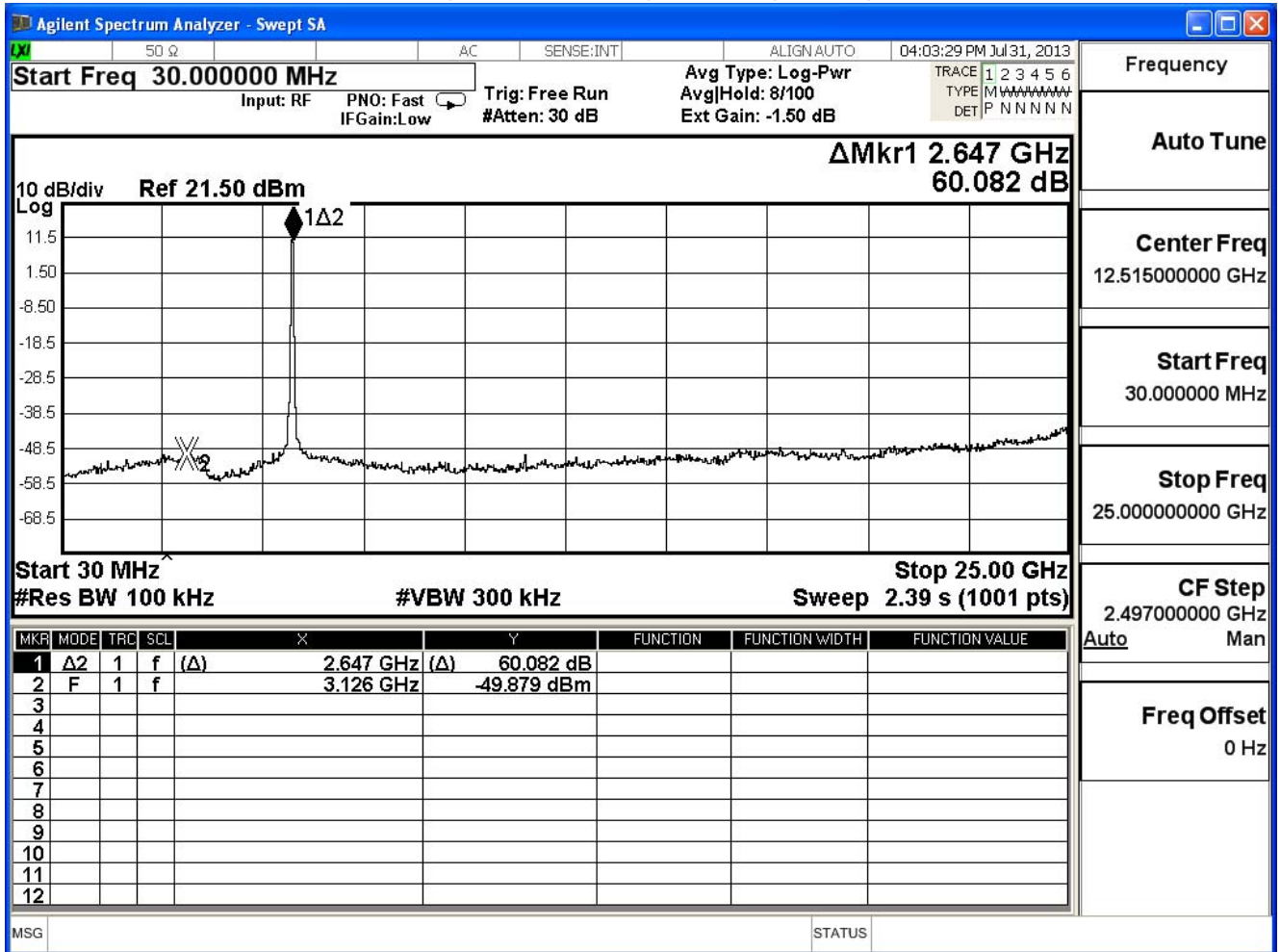
5755MHz (30MHz~25GHz)-802.11n(40MHz)-ANT 0



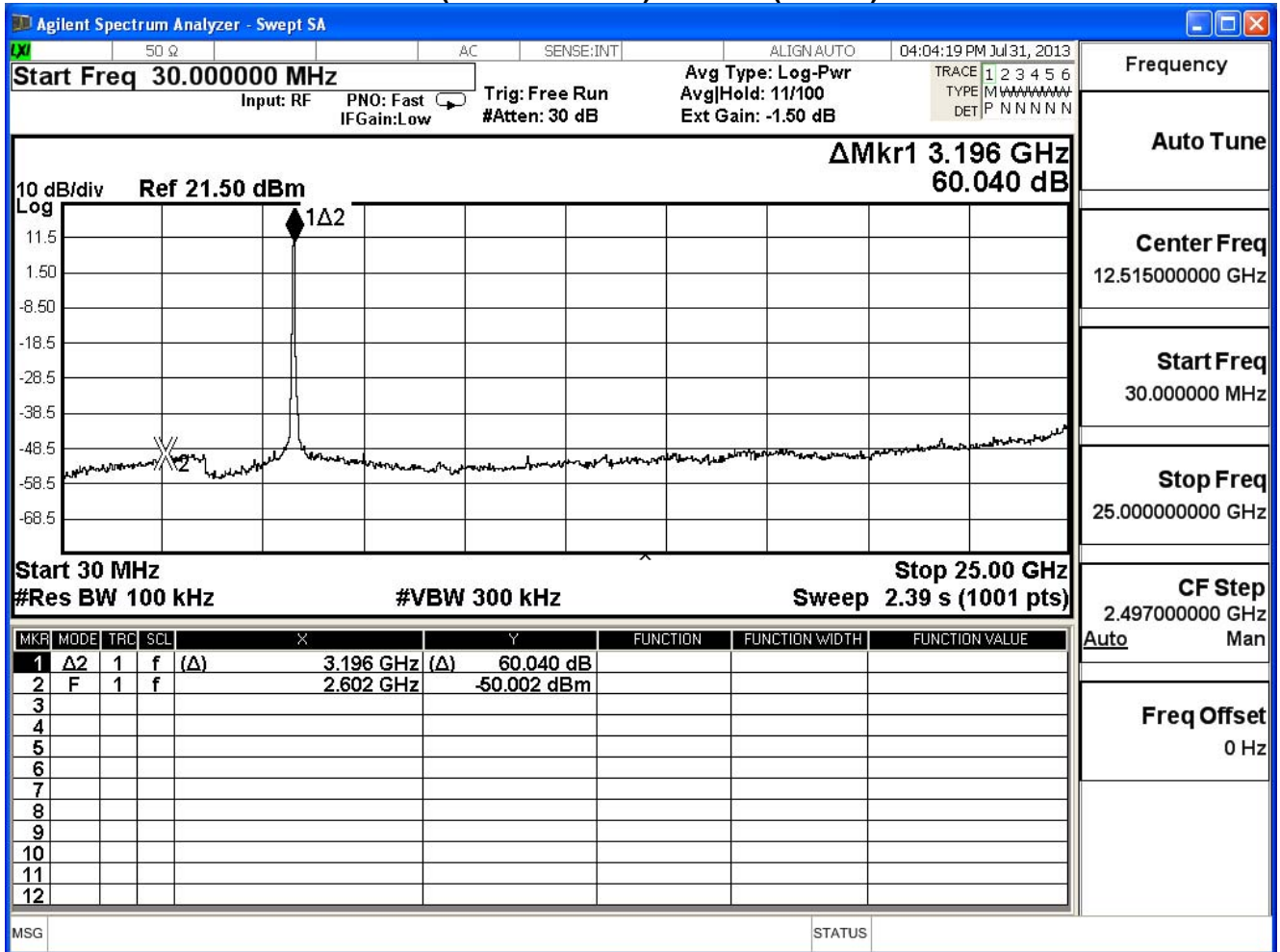
5795MHz (30MHz~25GHz) -802.11n(40MHz)-ANT 0



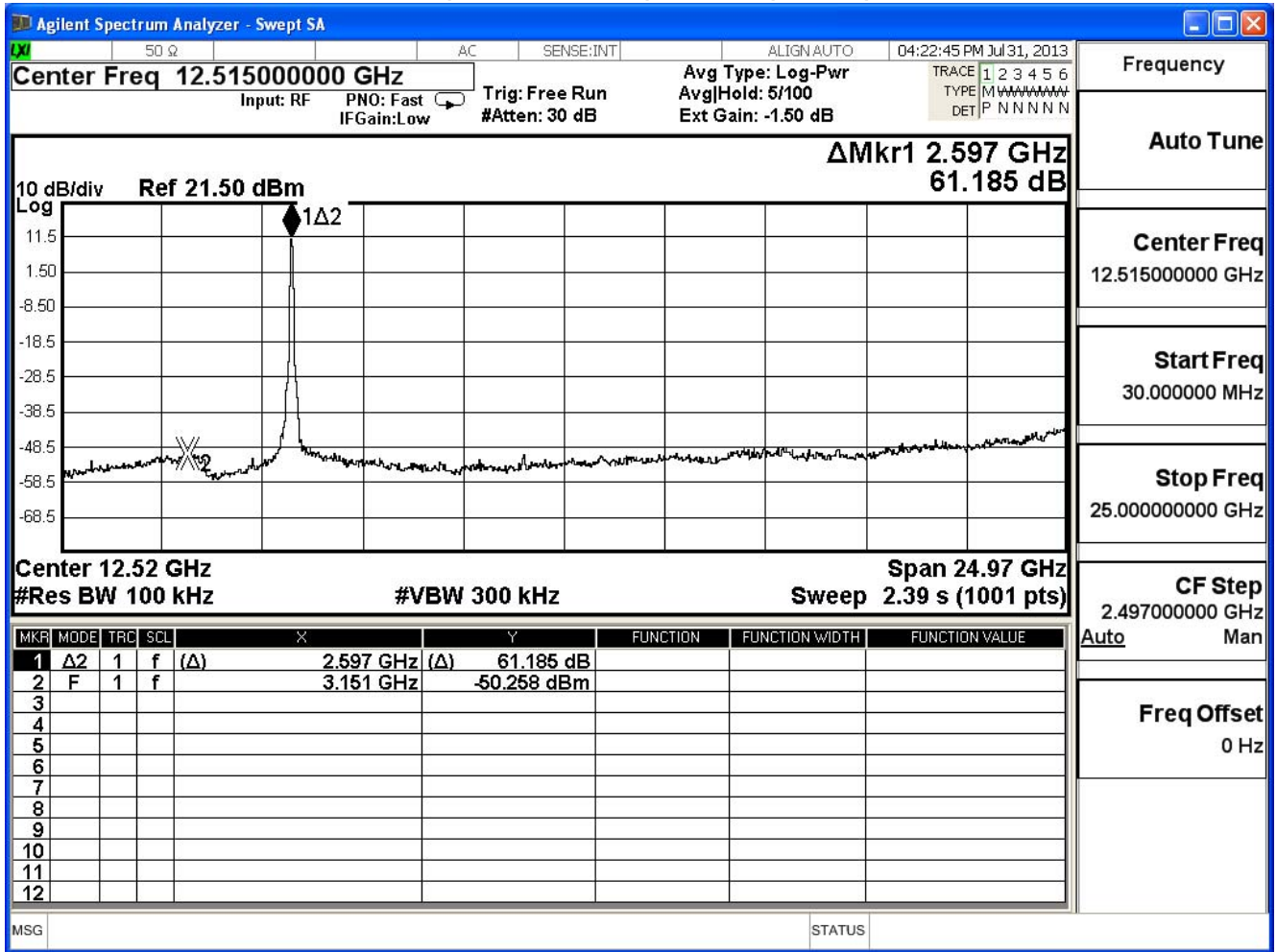
## 5755MHz (30MHz~25GHz)-802.11n(40MHz)-ANT 1



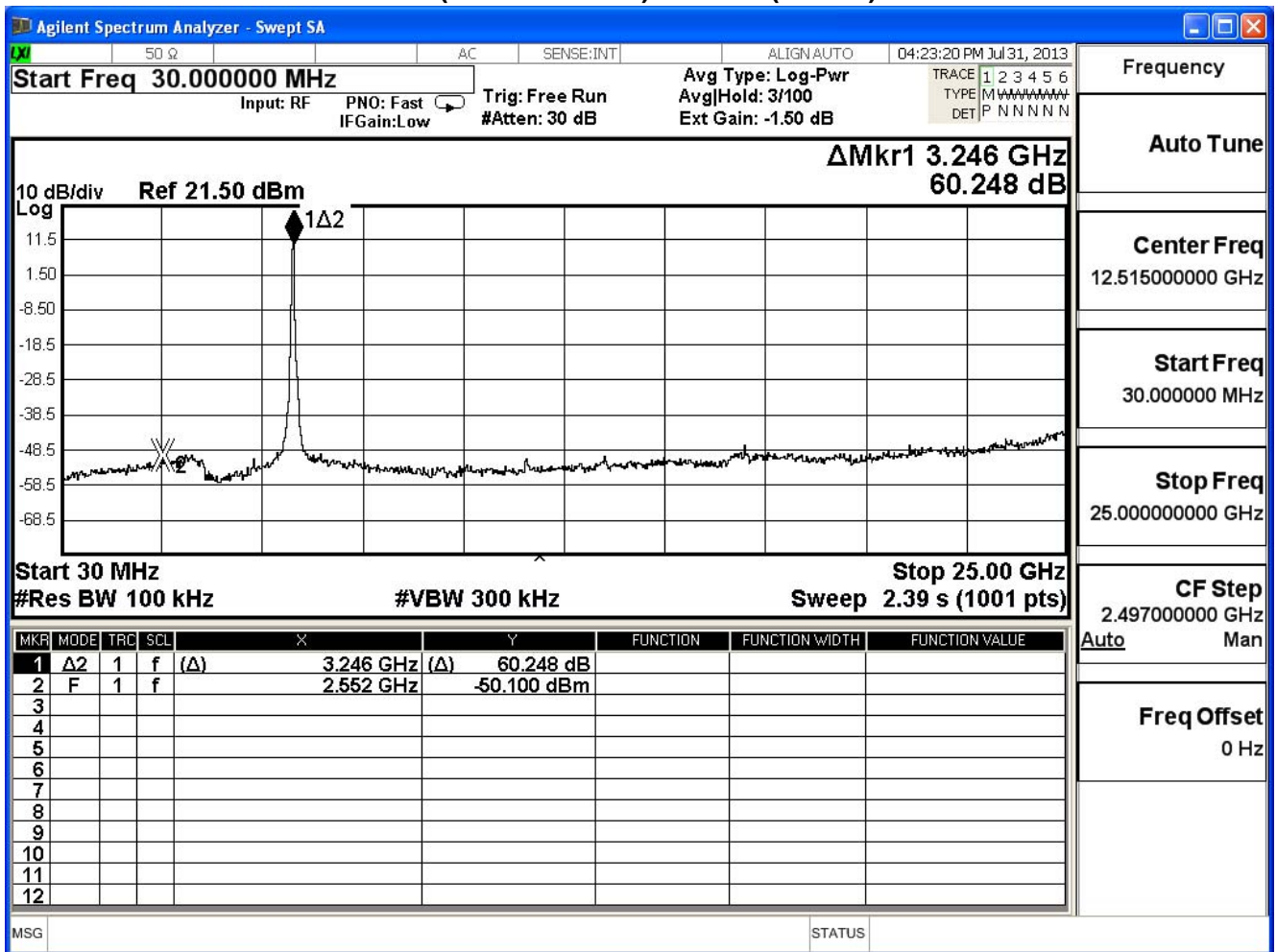
5795MHz (30MHz~25GHz) -802.11n(40MHz)-ANT 1



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

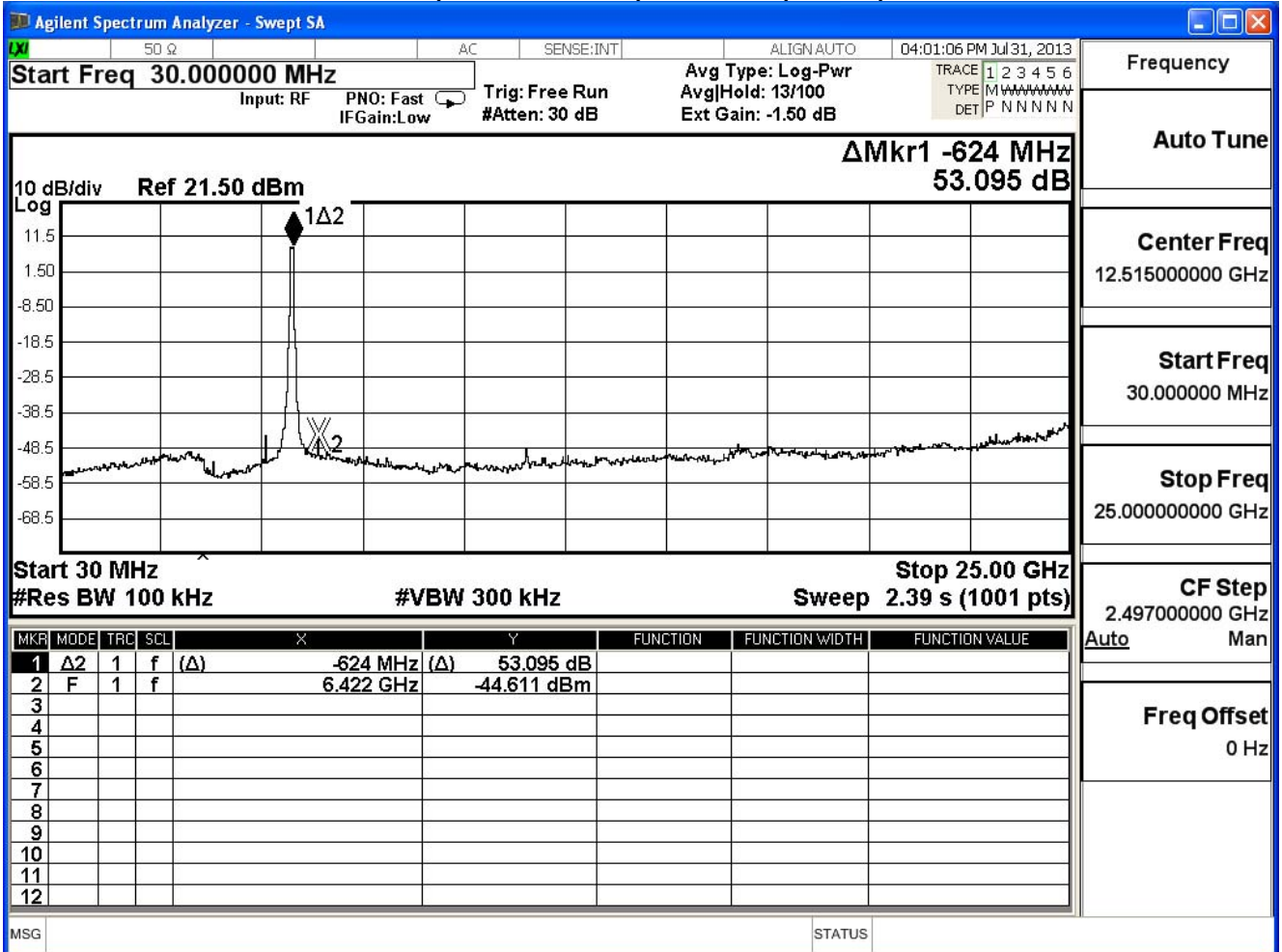


5795MHz (30MHz~25GHz) -802.11n(40MHz)-ANT 2



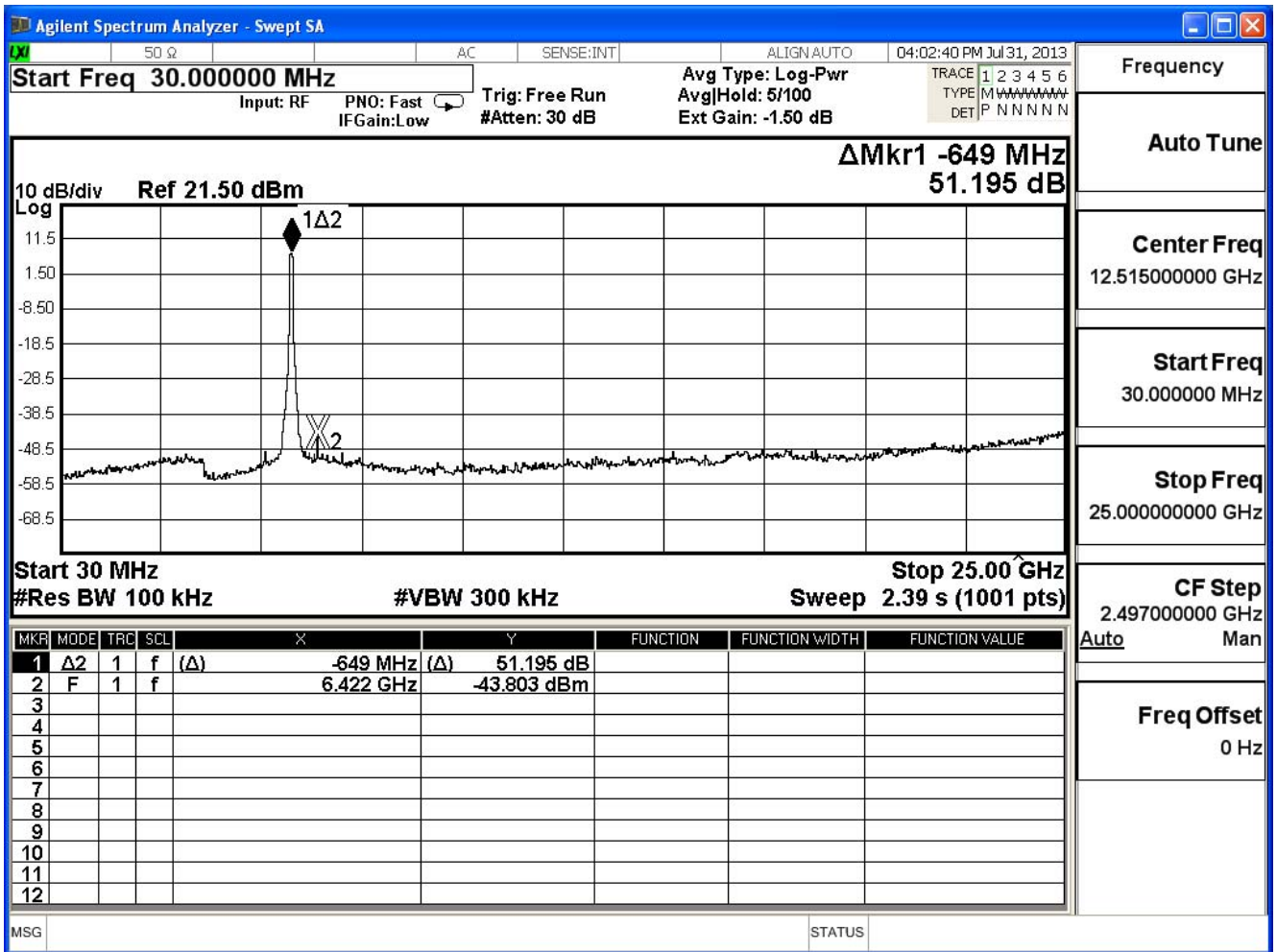
Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	RF antenna conducted test		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/07/26	Test Site	SR7

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

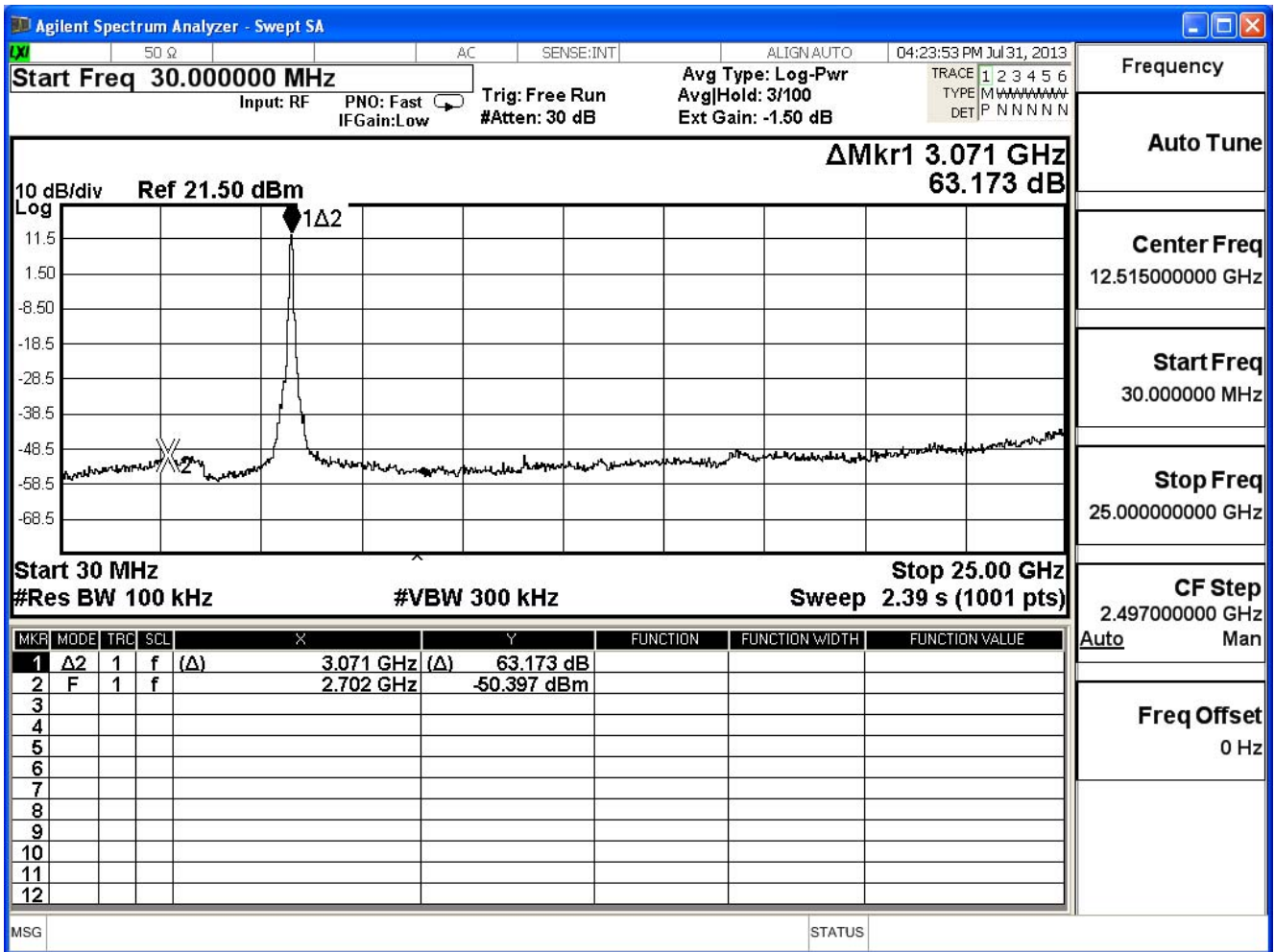




5775MHz (30MHz~25GHz) -802.11ac(80MHz)-ANT 1



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



## 6. Radiated Emission Band Edge

### 6.1. Test Equipment

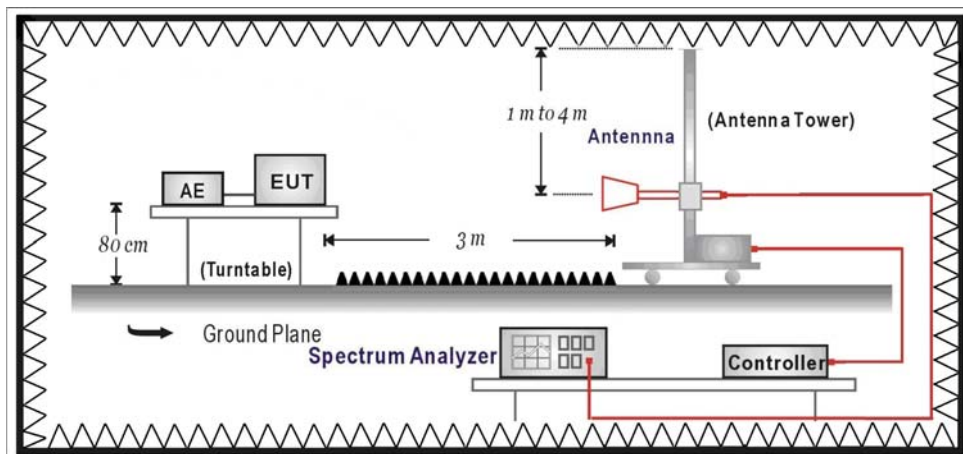
The following test equipments are used during the test:

Band Edge / CB1

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Double Ridged Guide Horn Antenna	Schwarzback	BBHA 9120	D743	2014/02/17
Spectrum Analyzer	Agilent	E4440A	MY46187335	2014/01/27
k Type Cable	Huber Suhner	Sucoflex 102	25623/2	2014/02/21

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

### 6.2. Test Setup



**6.3. Limits**

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

**6.4. Test Procedure**

The EUT was setup according to ANSI C63.4: 2009 and tested according to DTS test procedure of Oct. 2012 KDB558074 for compliance to FCC 47CFR 15.247 requirements. The EUT and its simulators are placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.

The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be manipulated according to ANSI C63.4: 2009 on radiated measurement.

**6.5. Test Specification**

According to FCC Part 15 Subpart C Paragraph 15.247: 2012

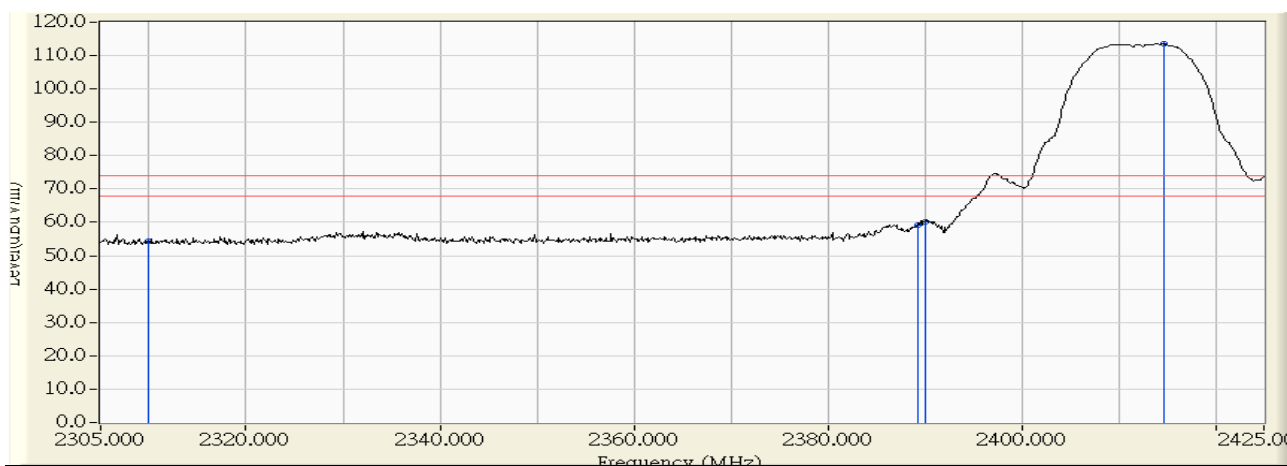
**6.6. Uncertainty**

The measurement uncertainty  
 $\pm 3.9$  dB above 1GHz

## 6.7. Test Result

Radiated is defined as

Site : CB1	Time : 2013/08/28 - 11:15
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : Mode 1: Transmit (CDD mode) 802.11b_2412MHz

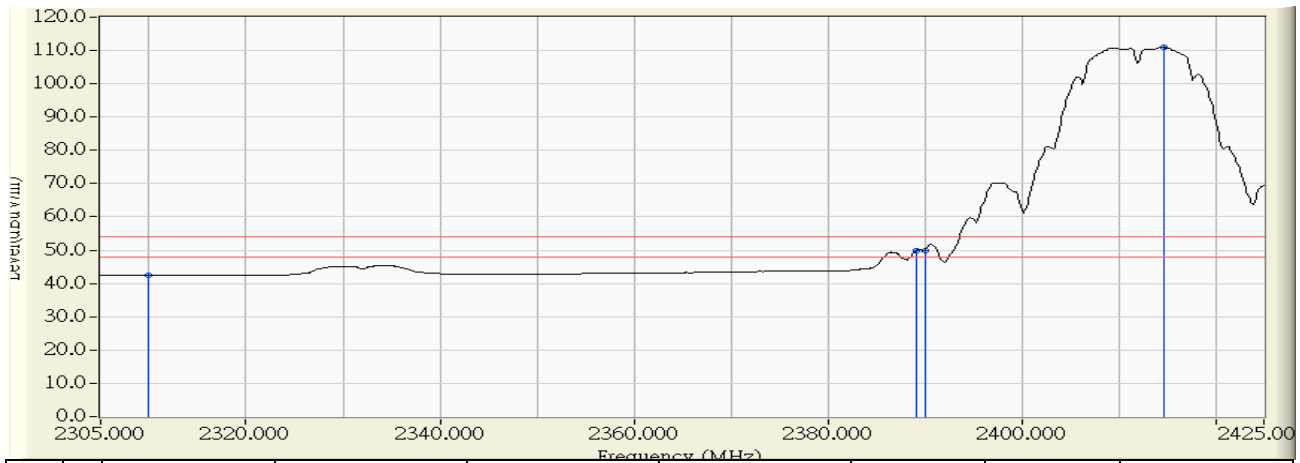


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	30.059	24.295	54.354	-19.646	74.000	PEAK
2	2389.240	30.880	28.234	59.114	-14.886	74.000	PEAK
3	2390.000	30.888	29.296	60.184	-13.816	74.000	PEAK
4	* 2414.680	31.144	82.467	113.611	39.611	74.000	PEAK

Note:

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

Site : CB1	Time : 2013/08/28 - 11:15
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : Mode 1: Transmit (CDD mode) 802.11b_2412MHz

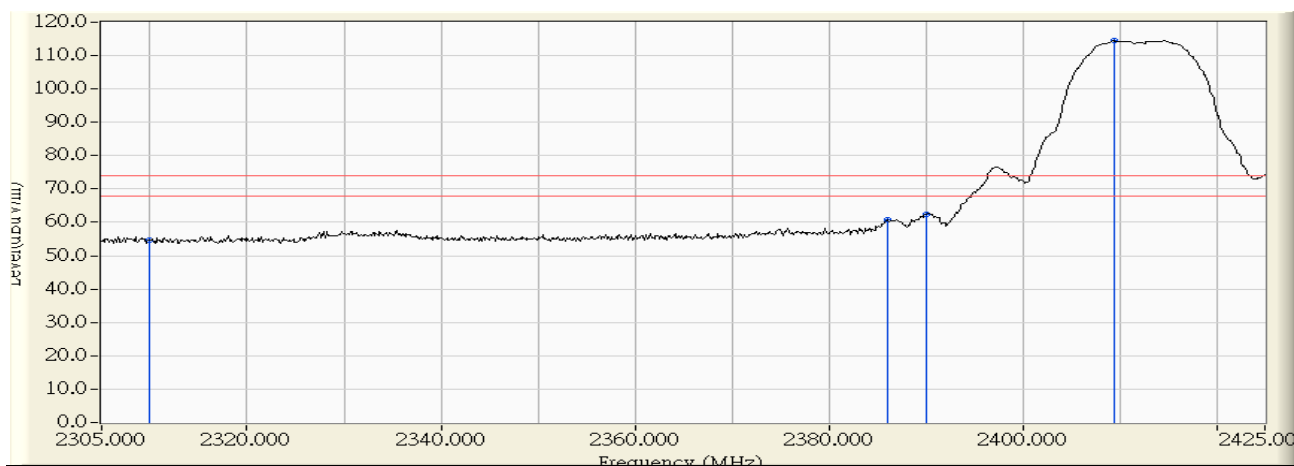


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	30.059	12.386	42.445	-11.555	54.000	AVERAGE
2	2389.120	30.879	19.067	49.946	-4.054	54.000	AVERAGE
3	2390.000	30.888	18.947	49.835	-4.165	54.000	AVERAGE
4	* 2414.680	31.144	79.830	110.974	56.974	54.000	AVERAGE

**Note:**

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

Site : CB1	Time : 2013/08/28 - 11:10
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : Mode 1: Transmit (CDD mode) 802.11b_2412MHz



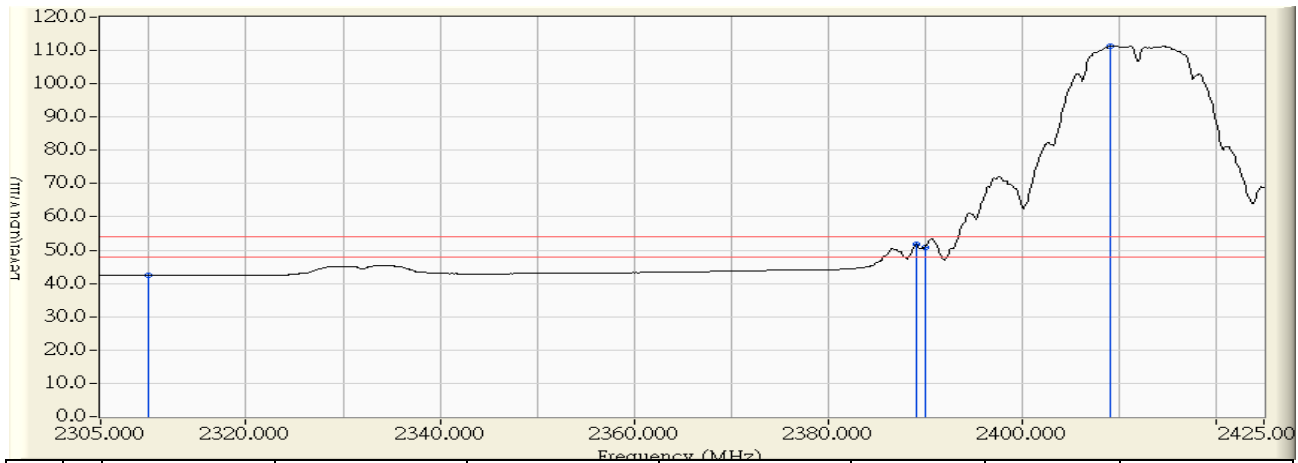
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	30.059	24.535	54.594	-19.406	74.000	PEAK
2	2386.120	30.848	29.906	60.754	-13.246	74.000	PEAK
3	2390.000	30.888	31.397	62.285	-11.715	74.000	PEAK
4	* 2409.400	31.089	83.461	114.551	40.551	74.000	PEAK

**Note:**

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



Site : CB1	Time : 2013/08/28 - 11:11
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : Mode 1: Transmit (CDD mode) 802.11b_2412MHz

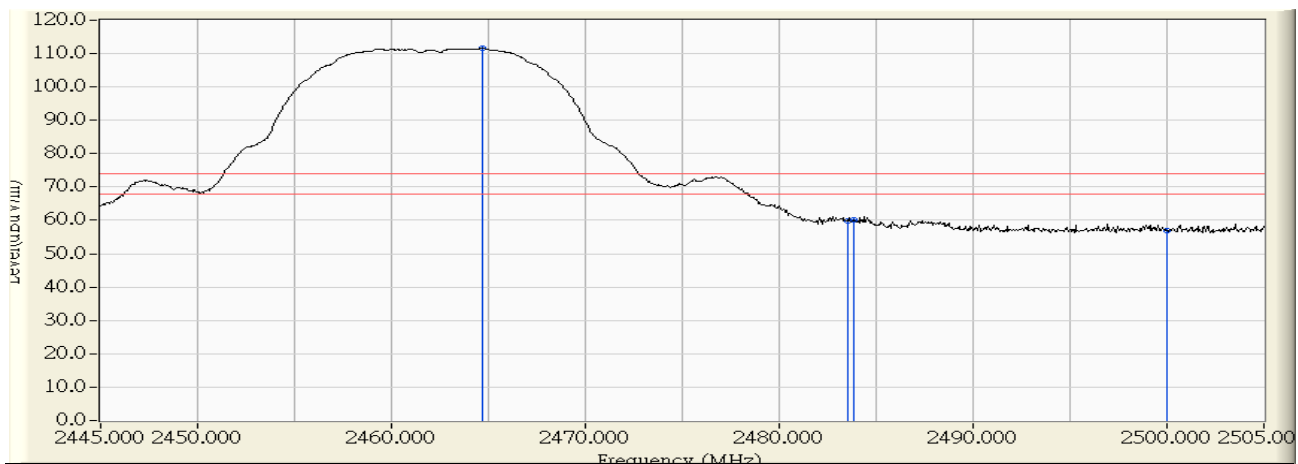


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	30.059	12.369	42.428	-11.572	54.000	AVERAGE
2	2389.120	30.879	20.923	51.802	-2.198	54.000	AVERAGE
3	2390.000	30.888	19.828	50.716	-3.284	54.000	AVERAGE
4	* 2409.160	31.087	80.362	111.449	57.449	54.000	AVERAGE

**Note:**

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

Site : CB1	Time : 2013/08/28 - 11:42
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : Mode 1: Transmit (CDD mode) 802.11b_2462MHz

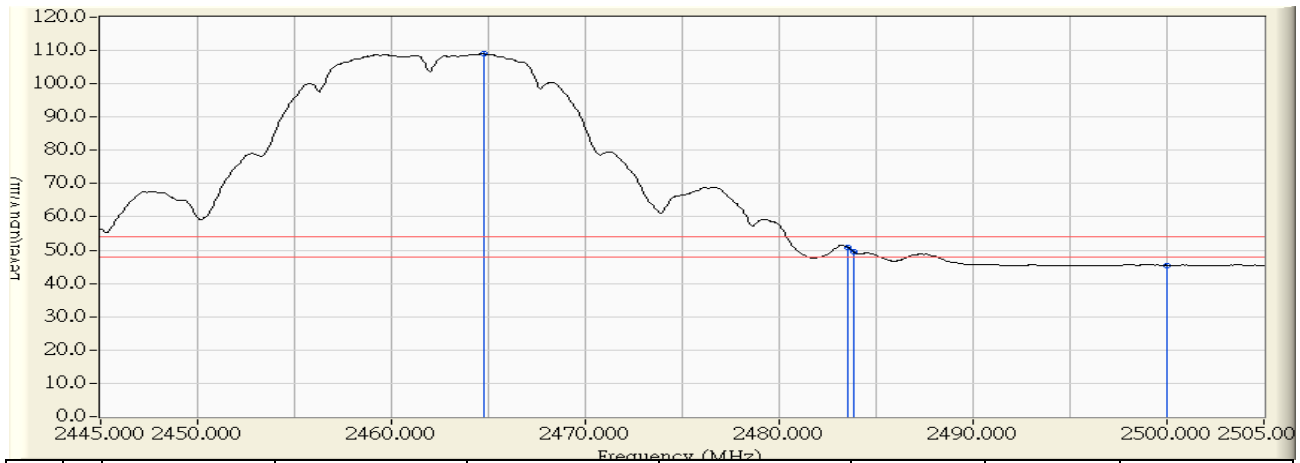


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2464.680	31.663	79.967	111.630	37.630	74.000	PEAK
2		2483.500	31.858	27.961	59.819	-14.181	74.000	PEAK
3		2483.820	31.861	28.220	60.081	-13.919	74.000	PEAK
4		2500.000	31.988	25.105	57.094	-16.906	74.000	PEAK

**Note:**

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

Site : CB1	Time : 2013/08/28 - 11:43
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : Mode 1: Transmit (CDD mode) 802.11b_2462MHz

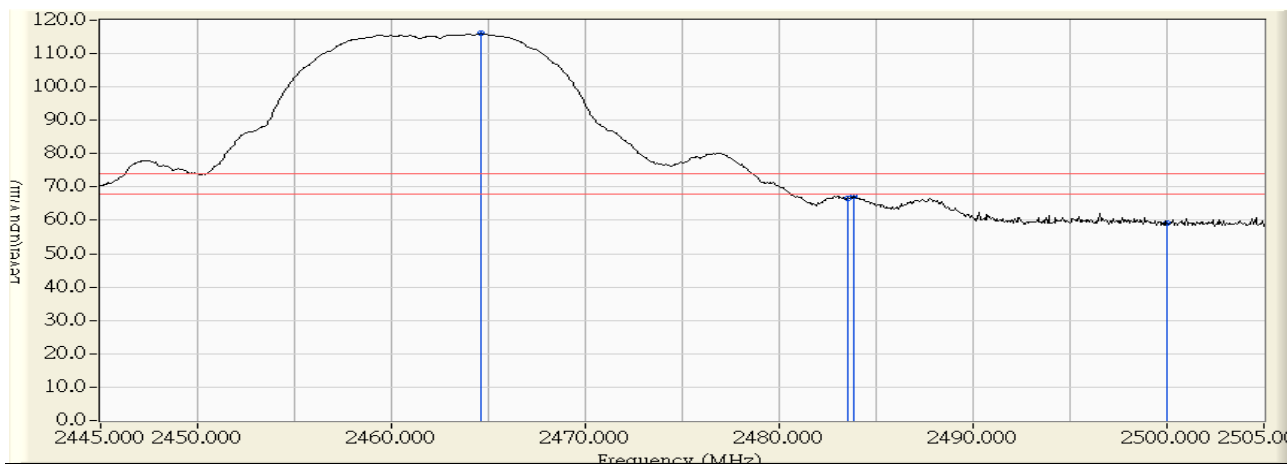


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2464.740	31.664	77.355	109.018	55.018	54.000	AVERAGE
2		2483.500	31.858	19.095	50.953	-3.047	54.000	AVERAGE
3		2483.820	31.861	17.733	49.594	-4.406	54.000	AVERAGE
4		2500.000	31.988	13.516	45.505	-8.495	54.000	AVERAGE

**Note:**

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

Site : CB1	Time : 2013/08/28 - 11:33
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : Mode 1: Transmit (CDD mode) 802.11 b_2462MHz

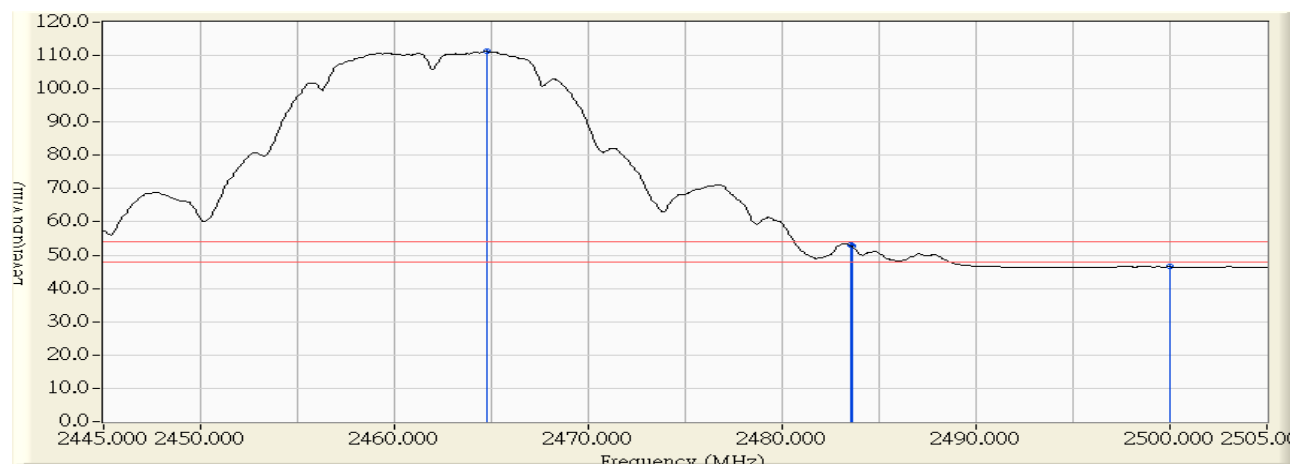


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2464.620	31.663	84.352	116.014	42.014	74.000	PEAK
2		2483.500	31.858	34.883	66.741	-7.259	74.000	PEAK
3		2483.820	31.861	35.453	67.314	-6.686	74.000	PEAK
4		2500.000	31.988	27.070	59.059	-14.941	74.000	PEAK

**Note:**

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

Site : CB1	Time : 2013/08/28 - 11:38
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : Mode 1: Transmit (CDD mode) 802.11b_2462MHz

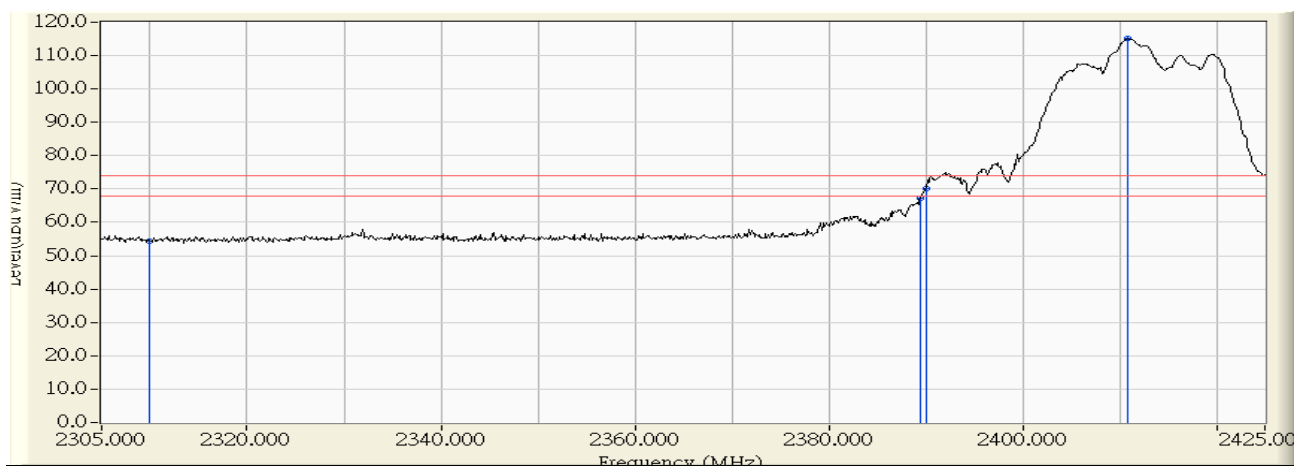


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2464.740	31.664	79.558	111.221	57.221	54.000	AVERAGE
2		2483.500	31.858	21.069	52.927	-1.073	54.000	AVERAGE
3		2483.580	31.859	20.766	52.625	-1.375	54.000	AVERAGE
4		2500.000	31.988	14.507	46.496	-7.504	54.000	AVERAGE

**Note:**

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

Site : CB1	Time : 2013/08/28 - 11:55
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : Mode 1: Transmit (CDD mode) 802.11g_2412MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	30.059	24.283	54.342	-19.658	74.000	PEAK
2	2389.480	30.883	36.226	67.109	-6.891	74.000	PEAK
3	2390.000	30.888	39.154	70.042	-3.958	74.000	PEAK
4	* 2410.840	31.105	83.948	115.052	41.052	74.000	PEAK

**Note:**

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

Site : CB1	Time : 2013/08/28 - 11:56
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : Mode 1: Transmit (CDD mode) 802.11g_2412MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	30.059	12.296	42.355	-11.645	54.000	AVERAGE
2	2389.600	30.884	19.694	50.578	-3.422	54.000	AVERAGE
3	2390.000	30.888	21.852	52.740	-1.260	54.000	AVERAGE
4	* 2411.200	31.108	74.411	105.519	51.519	54.000	AVERAGE

**Note:**

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



Site : CB1	Time : 2013/08/28 - 11:50
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : Mode 1: Transmit (CDD mode) 802.11g_2412MHz

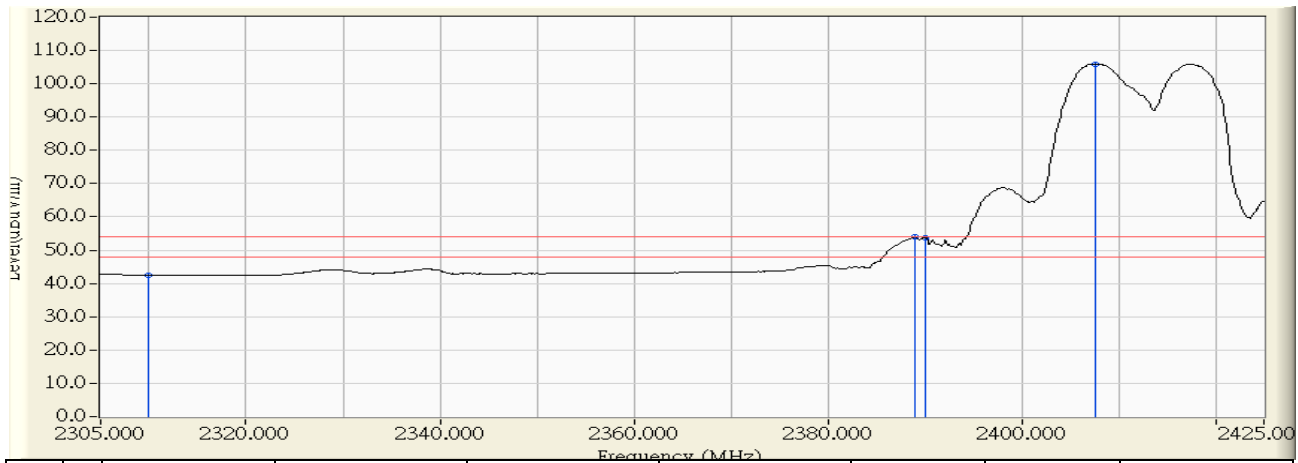


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	30.059	24.016	54.075	-19.925	74.000	PEAK
2	2388.880	30.877	39.402	70.279	-3.721	74.000	PEAK
3	2390.000	30.888	38.869	69.757	-4.243	74.000	PEAK
4	* 2407.840	31.073	86.148	117.221	43.221	74.000	PEAK

**Note:**

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

Site : CB1	Time : 2013/08/28 - 11:49
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : Mode 1: Transmit (CDD mode) 802.11g_2412MHz

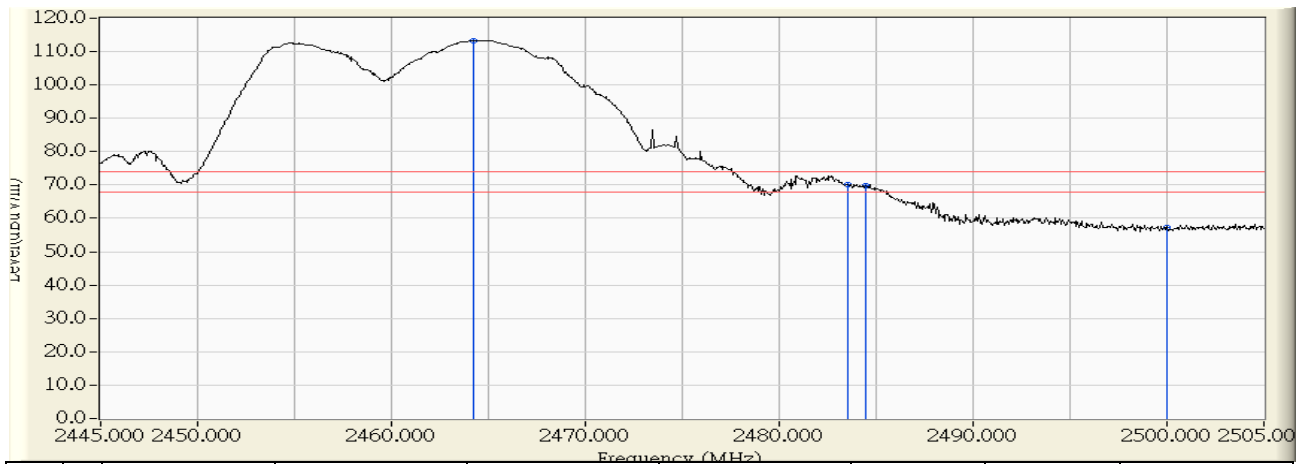


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	30.059	12.379	42.438	-11.562	54.000	AVERAGE
2	2389.000	30.878	23.039	53.917	-0.083	54.000	AVERAGE
3	2390.000	30.888	22.808	53.696	-0.304	54.000	AVERAGE
4	* 2407.600	31.071	74.854	105.925	51.925	54.000	AVERAGE

**Note:**

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

Site : CB1	Time : 2013/08/28 - 13:17
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : Mode 1: Transmit (CDD mode) 802.11g_2462MHz

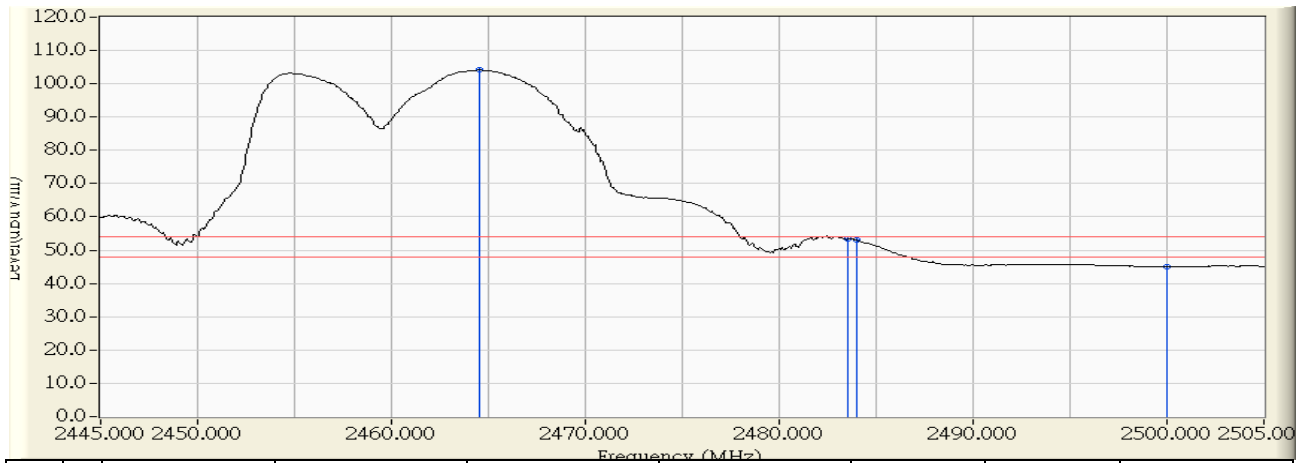


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2464.200	31.658	81.694	113.352	39.352	74.000	PEAK
2		2483.500	31.858	38.299	70.157	-3.843	74.000	PEAK
3		2484.480	31.868	37.965	69.833	-4.167	74.000	PEAK
4		2500.000	31.988	25.365	57.354	-16.646	74.000	PEAK

**Note:**

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

Site : CB1	Time : 2013/08/28 - 13:16
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : Mode 1: Transmit (CDD mode) 802.11g_2462MHz

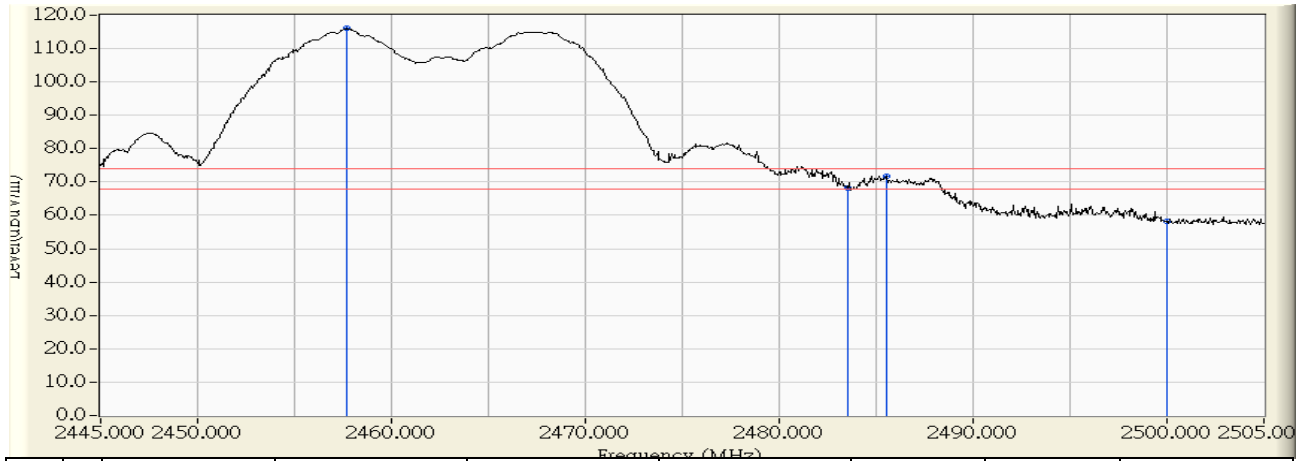


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2464.560	31.662	72.422	104.084	50.084	54.000	AVERAGE
2		2483.500	31.858	21.438	53.296	-0.704	54.000	AVERAGE
3		2484.000	31.863	21.064	52.927	-1.073	54.000	AVERAGE
4		2500.000	31.988	13.137	45.126	-8.874	54.000	AVERAGE

**Note:**

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

Site : CB1	Time : 2013/08/28 - 13:07
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : Mode 1: Transmit (CDD mode) 802.11g_2462MHz

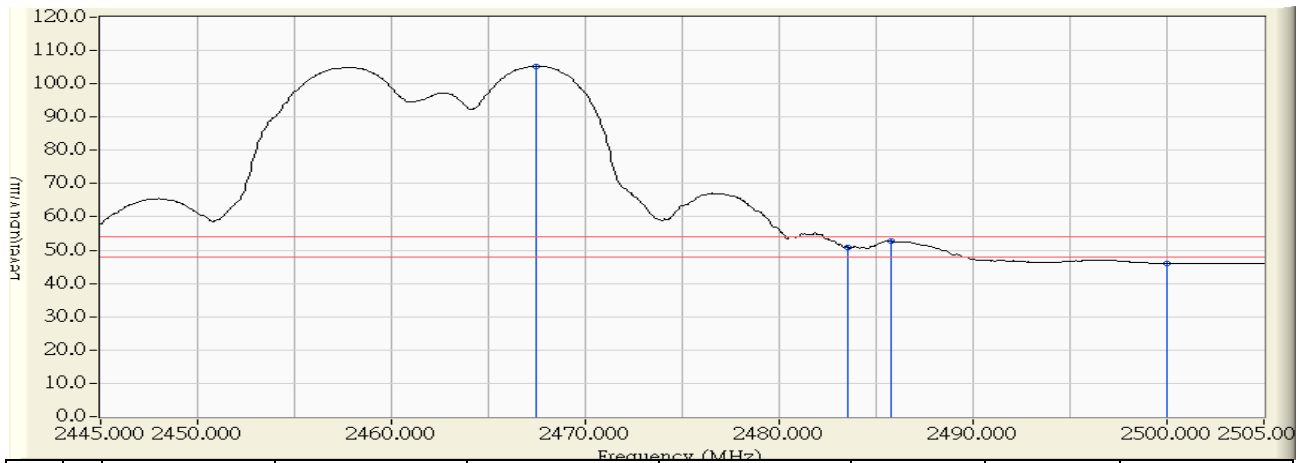


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2457.720	31.591	84.390	115.981	41.981	74.000	PEAK
2		2483.500	31.858	36.356	68.214	-5.786	74.000	PEAK
3		2485.560	31.879	39.873	71.752	-2.248	74.000	PEAK
4		2500.000	31.988	26.396	58.385	-15.615	74.000	PEAK

Note:

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

Site : CB1	Time : 2013/08/28 - 13:07
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : Mode 1: Transmit (CDD mode) 802.11g_2462MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2467.440	31.691	73.586	105.277	51.277	54.000	AVERAGE
2		2483.500	31.858	18.980	50.838	-3.162	54.000	AVERAGE
3		2485.740	31.881	20.752	52.633	-1.367	54.000	AVERAGE
4		2500.000	31.988	13.928	45.917	-8.083	54.000	AVERAGE

**Note:**

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

Site : CB1	Time : 2013/08/28 - 09:42
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : Mode 1: Transmit (CDD mode) 802.11n(20M)_2412MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	30.059	24.010	54.069	-19.931	74.000	PEAK
2	2389.600	30.884	39.496	70.380	-3.620	74.000	PEAK
3	2390.000	30.888	39.131	70.019	-3.981	74.000	PEAK
4	* 2416.600	31.164	82.426	113.590	39.590	74.000	PEAK

**Note:**

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

Site : CB1	Time : 2013/08/28 - 09:42
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : Mode 1: Transmit (CDD mode) 802.11n(20M)_2412MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	30.059	12.366	42.425	-11.575	54.000	AVERAGE
2	2386.960	30.857	18.463	49.320	-4.680	54.000	AVERAGE
3	2390.000	30.888	20.125	51.013	-2.987	54.000	AVERAGE
4	* 2411.560	31.112	71.166	102.278	48.278	54.000	AVERAGE

**Note:**

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



Site : CB1	Time : 2013/08/28 - 09:36
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : Mode 1: Transmit (CDD mode) 802.11n(20M)_2412MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	30.059	24.692	54.751	-19.249	74.000	PEAK
2	2388.640	30.874	43.049	73.923	-0.077	74.000	PEAK
3	2390.000	30.888	38.423	69.311	-4.689	74.000	PEAK
4	* 2408.440	31.080	83.510	114.590	40.590	74.000	PEAK

**Note:**

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

Site : CB1	Time : 2013/08/28 - 09:37
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : Mode 1: Transmit (CDD mode) 802.11n(20M)_2412MHz

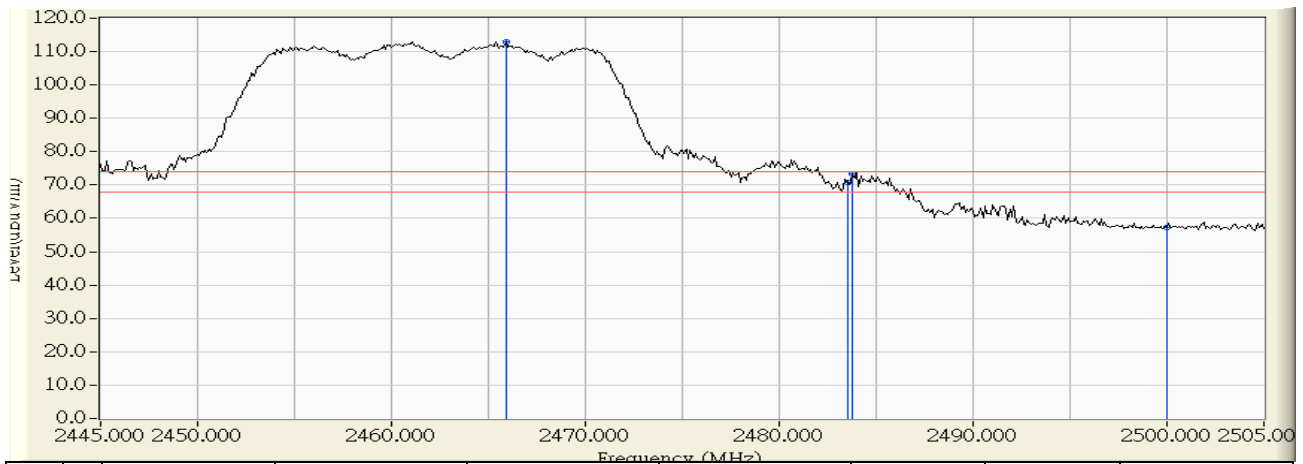


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	30.059	12.288	42.347	-11.653	54.000	AVERAGE
2	2388.640	30.874	22.897	53.771	-0.229	54.000	AVERAGE
3	2390.000	30.888	20.366	51.254	-2.746	54.000	AVERAGE
4	* 2413.240	31.130	72.678	103.807	49.807	54.000	AVERAGE

**Note:**

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

Site : CB1	Time : 2013/08/27 - 21:44
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : Mode 1: Transmit (CDD mode) 802.11n(20M)_2462MHz

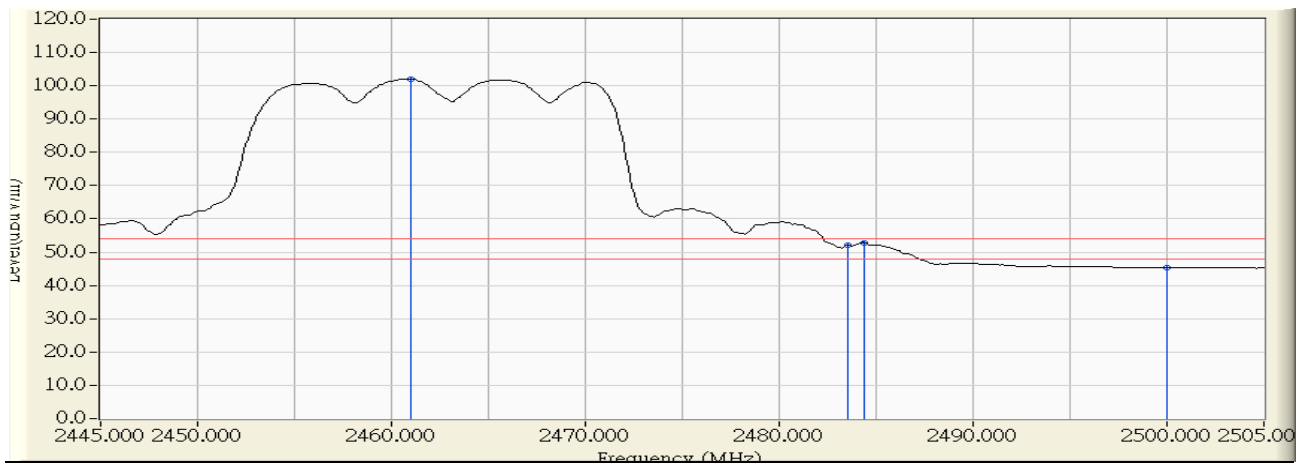


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2465.900	31.675	81.206	112.881	38.881	74.000	PEAK
2		2483.500	31.858	38.885	70.743	-3.257	74.000	PEAK
3		2483.800	31.861	41.628	73.489	-0.511	74.000	PEAK
4		2500.000	31.988	25.401	57.390	-16.610	74.000	PEAK

**Note:**

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

Site : CB1	Time : 2013/08/27 - 21:45
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : Mode 1: Transmit (CDD mode) 802.11n(20M)_2462MHz

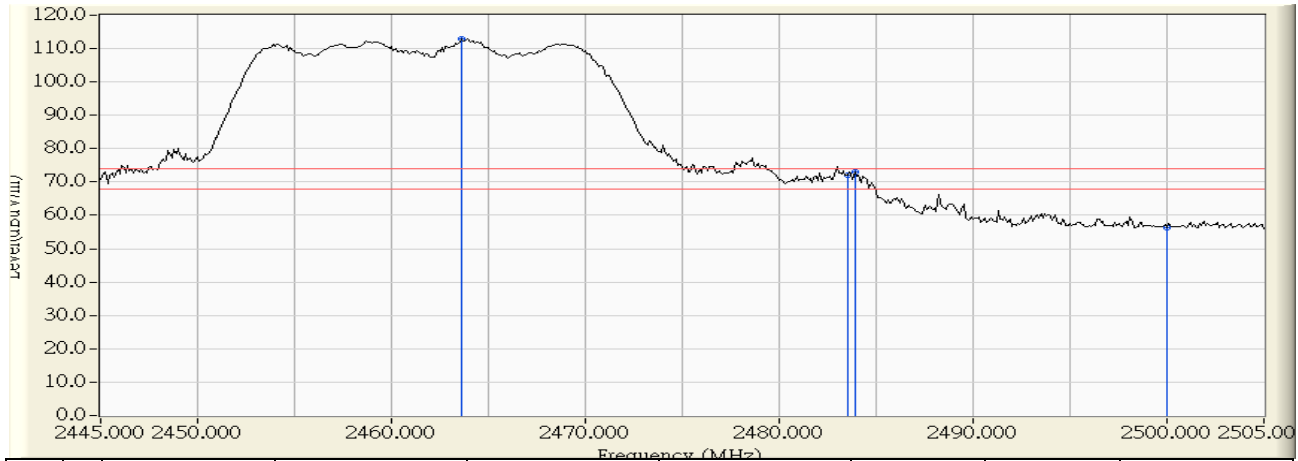


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2461.000	31.624	70.300	101.925	47.925	54.000	AVERAGE
2		2483.500	31.858	20.184	52.042	-1.958	54.000	AVERAGE
3		2484.400	31.867	20.962	52.829	-1.171	54.000	AVERAGE
4		2500.000	31.988	13.369	45.358	-8.642	54.000	AVERAGE

**Note:**

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

Site : CB1	Time : 2013/08/27 - 21:39
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : Mode 1: Transmit (CDD mode) 802.11n(20M)_2462MHz

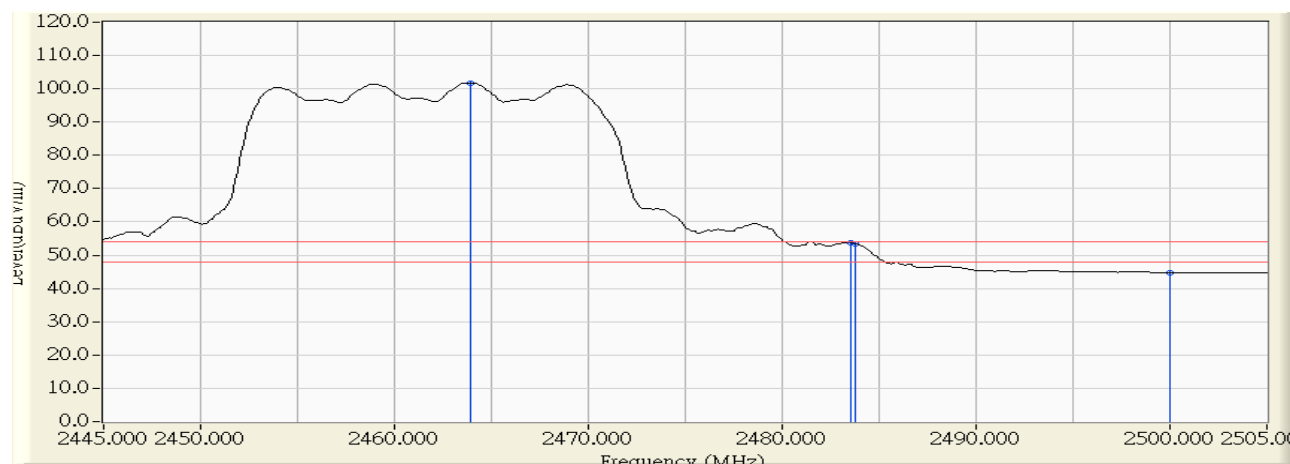


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.600	31.651	81.319	112.971	38.971	74.000	PEAK
2		2483.500	31.858	40.329	72.187	-1.813	74.000	PEAK
3		2483.900	31.862	41.166	73.028	-0.972	74.000	PEAK
4		2500.000	31.988	24.268	56.257	-17.743	74.000	PEAK

**Note:**

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

Site : CB1	Time : 2013/08/27 - 21:39
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : Mode 1: Transmit (CDD mode) 802.11n(20M)_2462MHz

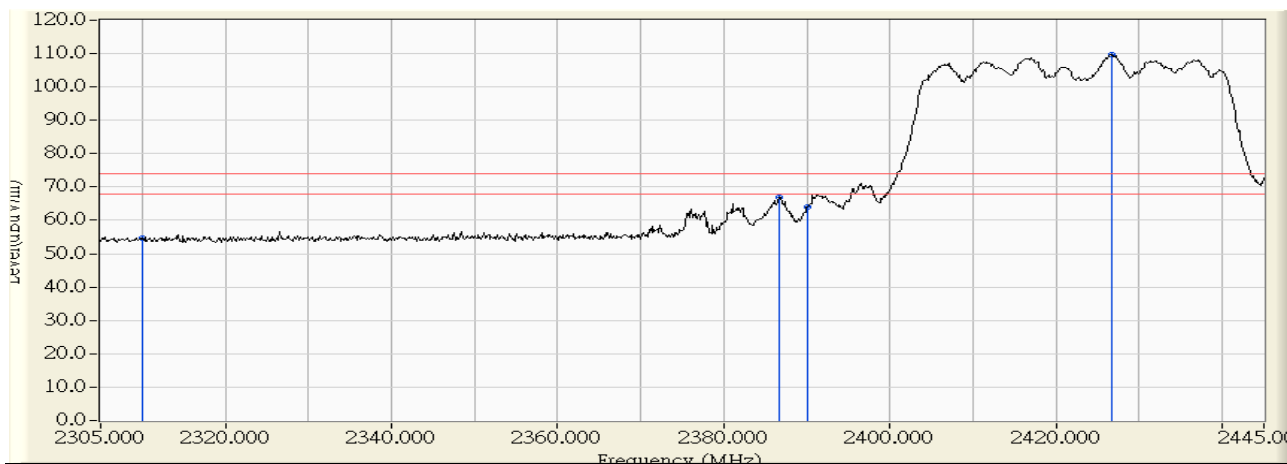


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2463.900	31.655	70.079	101.734	47.734	54.000	AVERAGE
2		2483.500	31.858	22.022	53.880	-0.120	54.000	AVERAGE
3		2483.800	31.861	21.499	53.360	-0.640	54.000	AVERAGE
4		2500.000	31.988	12.807	44.796	-9.204	54.000	AVERAGE

**Note:**

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

Site : CB1	Time : 2013/08/28 - 10:23
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : Mode 1: Transmit (CDD mode) 802.11n(40M)_2422MHz

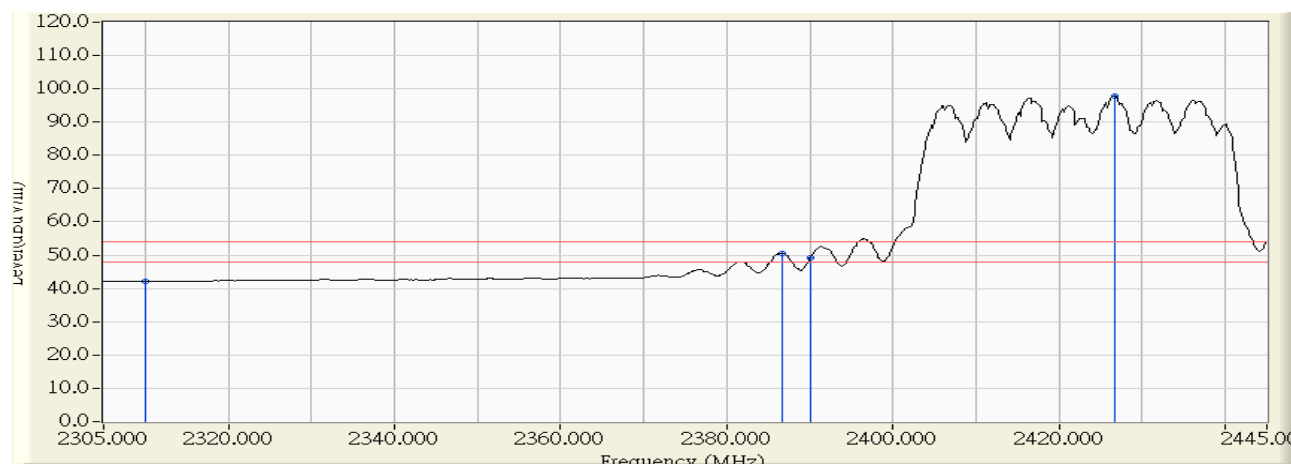


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	30.059	24.650	54.709	-19.291	74.000	PEAK
2	2386.620	30.853	35.951	66.804	-7.196	74.000	PEAK
3	2390.000	30.888	33.097	63.985	-10.015	74.000	PEAK
4	* 2426.660	31.268	78.472	109.741	35.741	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.

Site : CB1	Time : 2013/08/28 - 10:24
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : Mode 1: Transmit (CDD mode) 802.11n(40M)_2422MHz



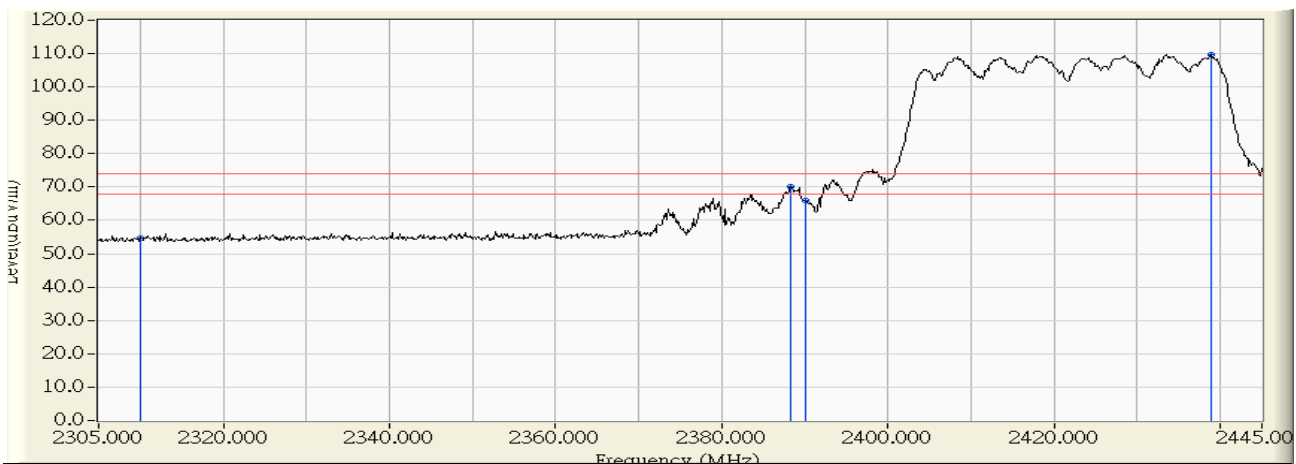
	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	30.059	12.131	42.190	-11.810	54.000	AVERAGE
2	2386.620	30.853	19.596	50.449	-3.551	54.000	AVERAGE
3	2390.000	30.888	18.181	49.069	-4.931	54.000	AVERAGE
4	* 2426.660	31.268	66.458	97.727	43.727	54.000	AVERAGE

**Note:**

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



Site : CB1	Time : 2013/08/28 - 10:15
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : Mode 1: Transmit (CDD mode) 802.11n(40M)_2422MHz

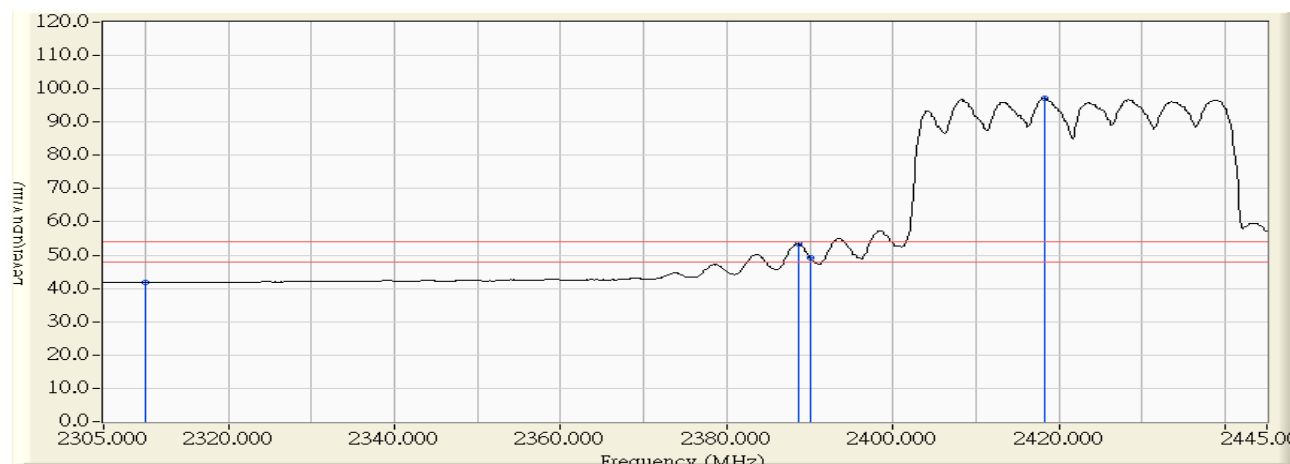


	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	30.059	24.547	54.606	-19.394	74.000	PEAK
2	2388.300	30.870	39.286	70.157	-3.843	74.000	PEAK
3	2390.000	30.888	35.050	65.938	-8.062	74.000	PEAK
4	* 2438.980	31.397	78.280	109.676	35.676	74.000	PEAK

**Note:**

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

Site : CB1	Time : 2013/08/28 - 10:18
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : Mode 1: Transmit (CDD mode) 802.11n(40M)_2422MHz



	Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	2310.000	30.059	11.715	41.774	-12.226	54.000	AVERAGE
2	2388.580	30.874	22.531	53.405	-0.595	54.000	AVERAGE
3	2390.000	30.888	18.431	49.319	-4.681	54.000	AVERAGE
4	* 2418.260	31.181	66.045	97.226	43.226	54.000	AVERAGE

**Note:**

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

Site : CB1	Time : 2013/08/28 - 11:03
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : Mode 1: Transmit (CDD mode) 802.11n(40M)_2452MHz

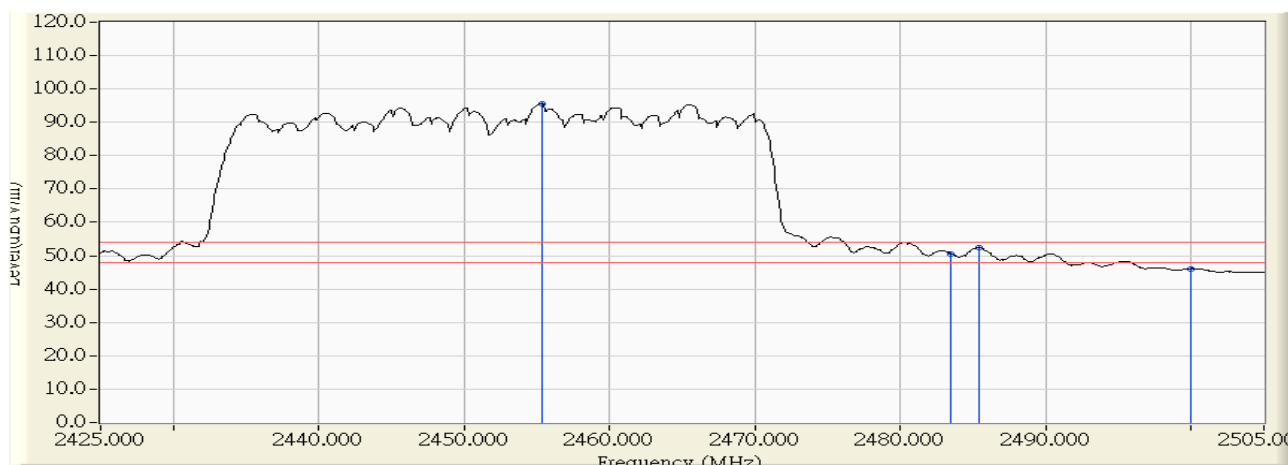


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2455.240	31.565	75.098	106.663	32.663	74.000	PEAK
2		2483.500	31.858	33.944	65.802	-8.198	74.000	PEAK
3		2490.360	31.929	35.014	66.943	-7.057	74.000	PEAK
4		2500.000	31.988	28.319	60.308	-13.692	74.000	PEAK

**Note:**

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

Site : CB1	Time : 2013/08/28 - 11:03
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - HORIZONTAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : Mode 1: Transmit (CDD mode) 802.11n(40M)_2452MHz

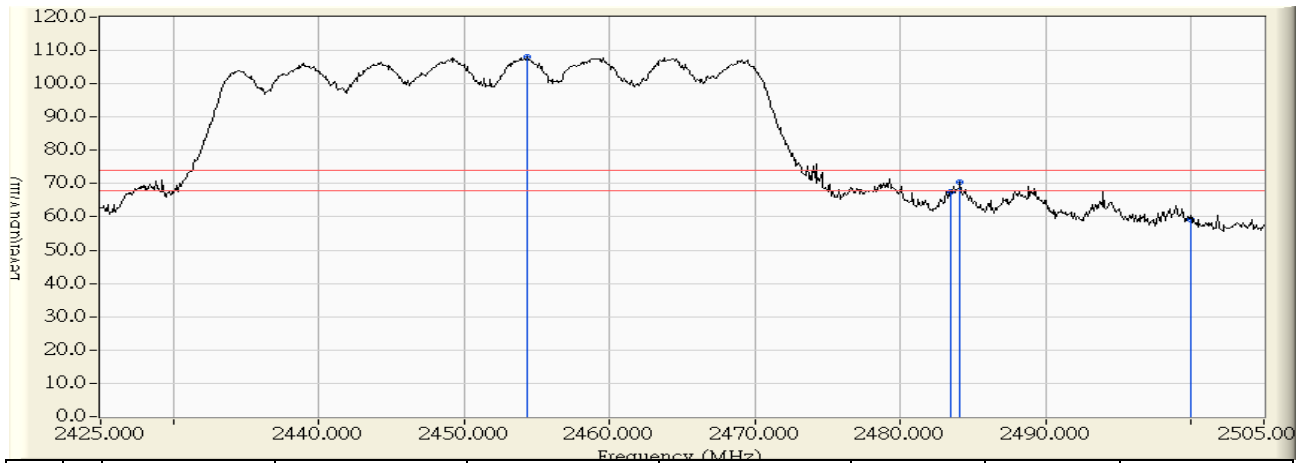


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2455.400	31.567	64.070	95.637	41.637	54.000	AVERAGE
2		2483.500	31.858	18.709	50.567	-3.433	54.000	AVERAGE
3		2485.400	31.878	20.638	52.516	-1.484	54.000	AVERAGE
4		2500.000	31.988	14.174	46.163	-7.837	54.000	AVERAGE

**Note:**

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

Site : CB1	Time : 2013/08/28 - 10:58
Limit : FCC_SpartC_15.247_H_03M_PK	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : Mode 1: Transmit (CDD mode) 802.11n(40M)_2452MHz

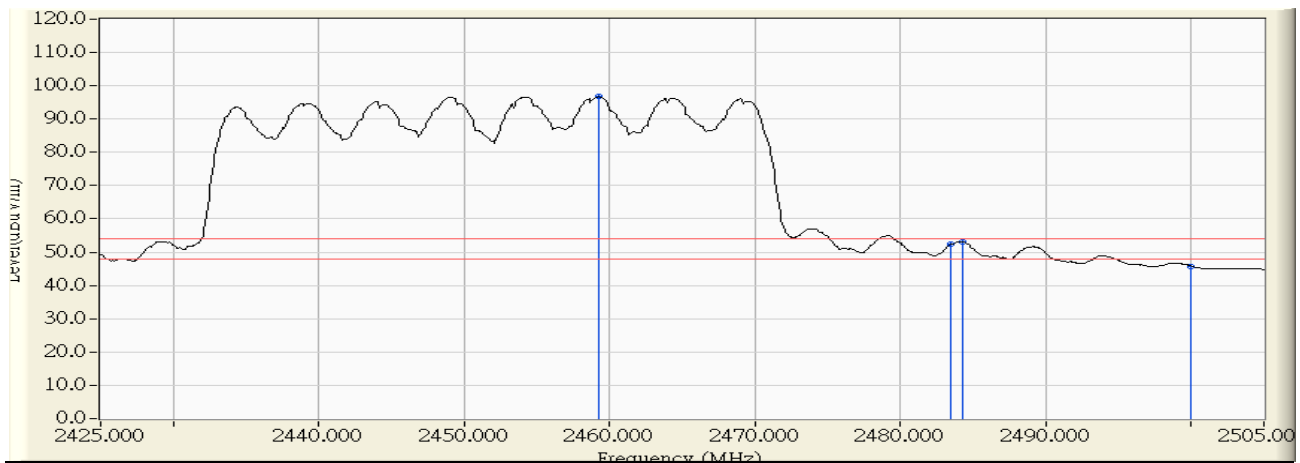


		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2454.360	31.556	76.446	108.002	34.002	74.000	PEAK
2		2483.500	31.858	35.856	67.714	-6.286	74.000	PEAK
3		2484.120	31.864	38.656	70.520	-3.480	74.000	PEAK
4		2500.000	31.988	27.251	59.240	-14.760	74.000	PEAK

**Note:**

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

Site : CB1	Time : 2013/08/28 - 10:57
Limit : FCC_SpartC_15.247_H_03M_AV	Margin : 6
Probe : CB1_FCC_EFS_1-18G-1_0901 - VERTICAL	Power : DC 3.3V (Power by PC)
EUT : Dual Band 3x3 802.11ac PCI-E Adapter	Note : Mode 1: Transmit (CDD mode) 802.11n(40M)_2452MHz



		Frequency (MHz)	Correct Factor (dB)	Reading Level (dBuV)	Measure Level (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Detector Type
1	*	2459.240	31.606	65.071	96.677	42.677	54.000	AVERAGE
2		2483.500	31.858	20.539	52.397	-1.603	54.000	AVERAGE
3		2484.280	31.866	21.315	53.181	-0.819	54.000	AVERAGE
4		2500.000	31.988	13.828	45.817	-8.183	54.000	AVERAGE

**Note:**

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

**7. Occupied Bandwidth**

**7.1. Test Equipment**

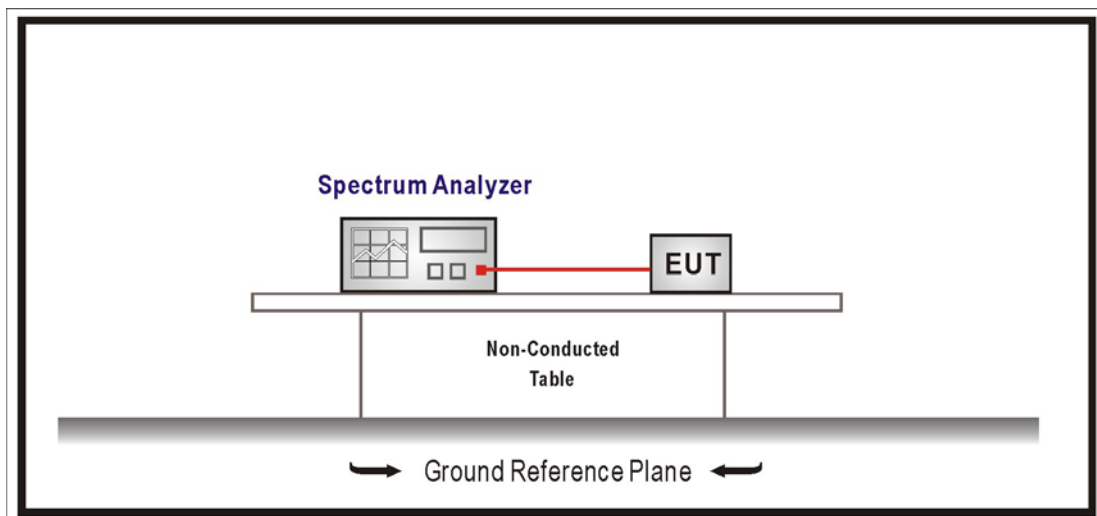
The following test equipments are used during the test:

Occupied Bandwidth / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	Agilent	N9010A-EXA	US47140172	2014/07/31

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

**7.2. Test Setup**



**7.3. Test Procedures**

The EUT was setup according to ANSI C63.4: 2009; tested according to DTS test procedure of Oct. 2012 KDB558074 for compliance to FCC 47CFR 15.247 requirements.

Set RBW = 100 kHz, Span greater than RBW.

**7.4. Limits**

The 6 dB bandwidth must be greater than 500 kHz.

**7.5. Test Specification**

According to FCC Part 15 Subpart C Paragraph 15.247: 2012

**7.6. Uncertainty**

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

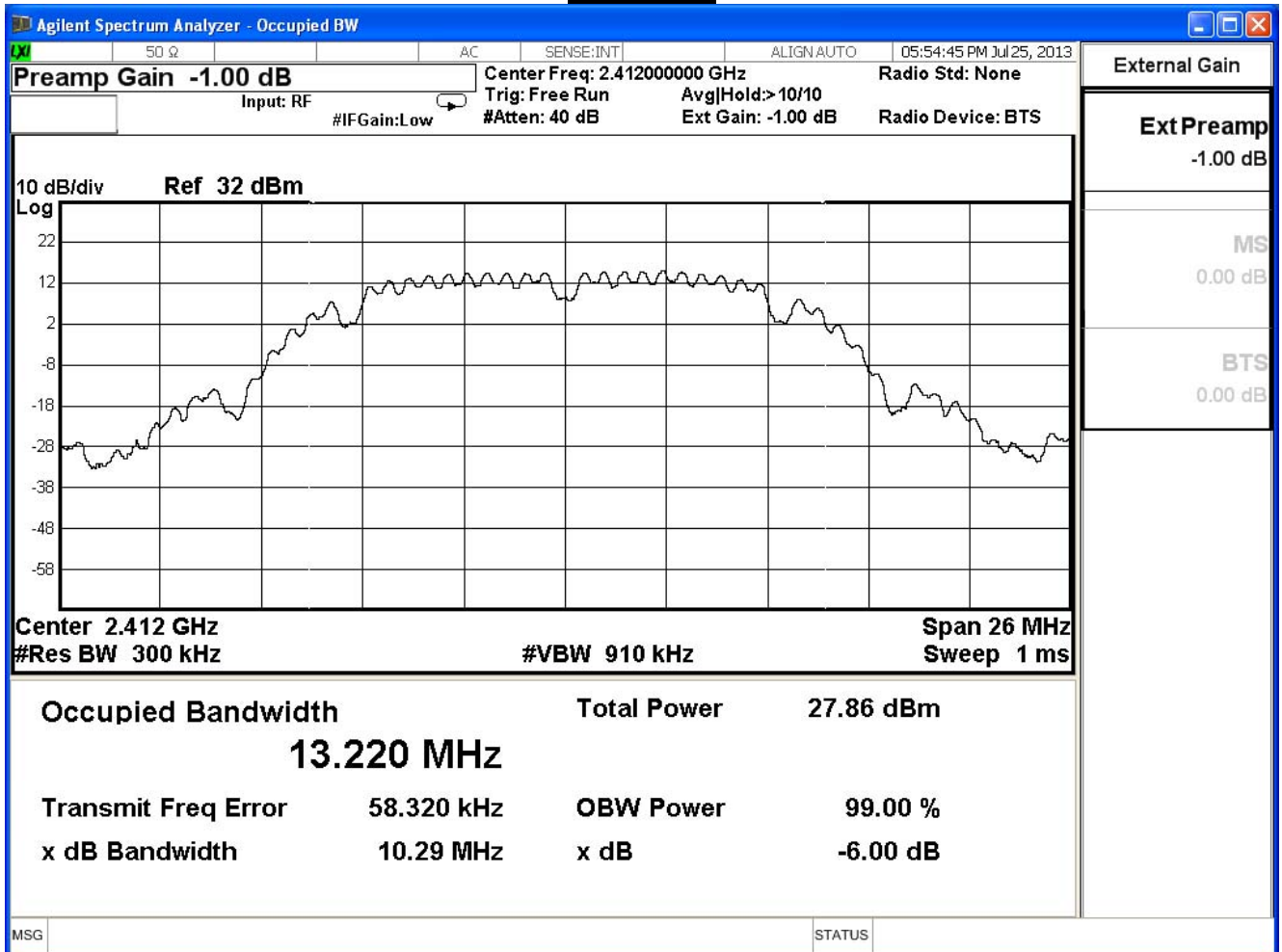
7.7. Test Result

Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/07/31	Test Site	SR7

802.11 b (ANT0)

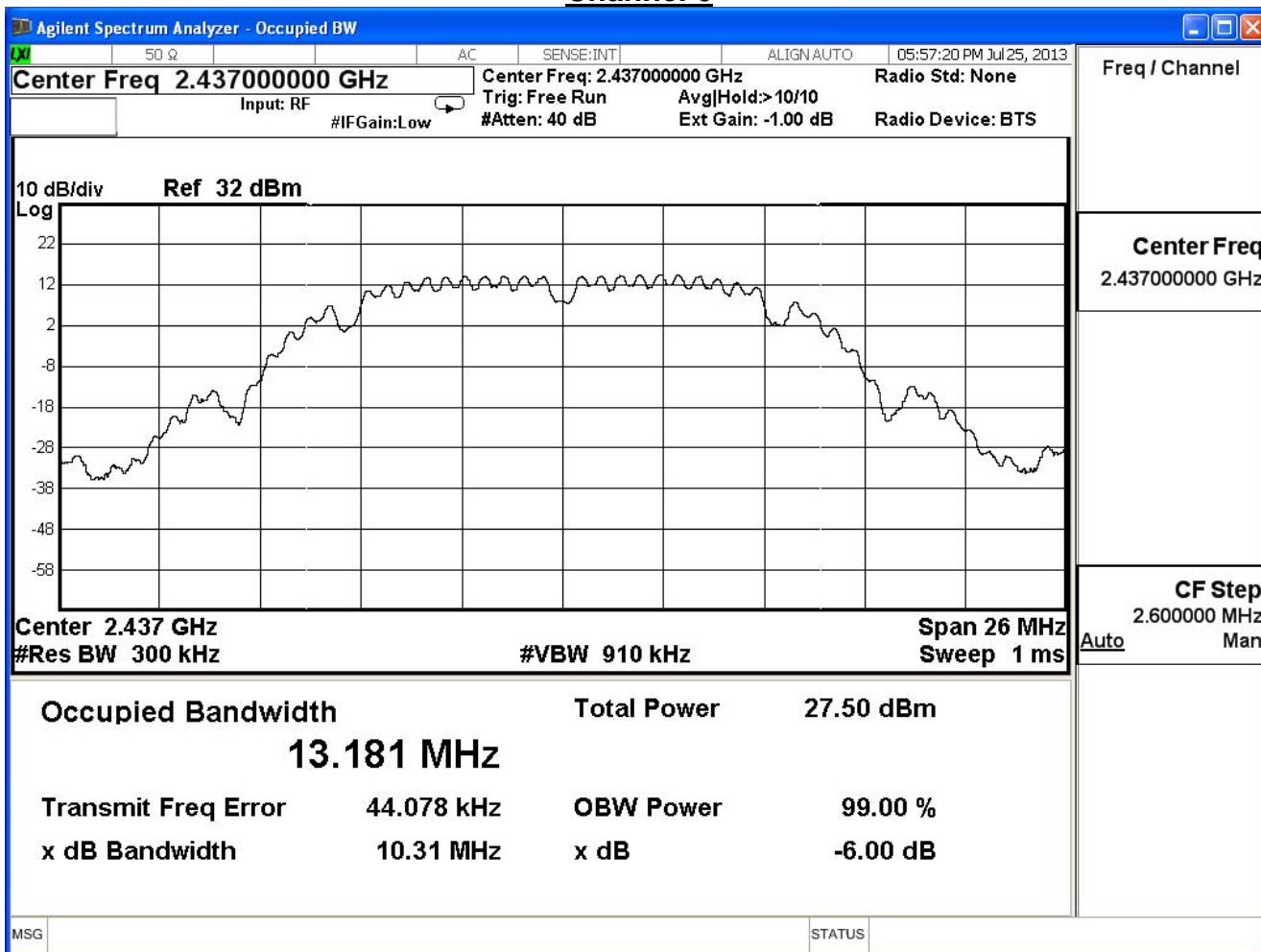
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
1	2412	10.29	$\geq 0.5$	Pass
6	2437	10.31	$\geq 0.5$	Pass
11	2462	10.29	$\geq 0.5$	Pass

Channel 1

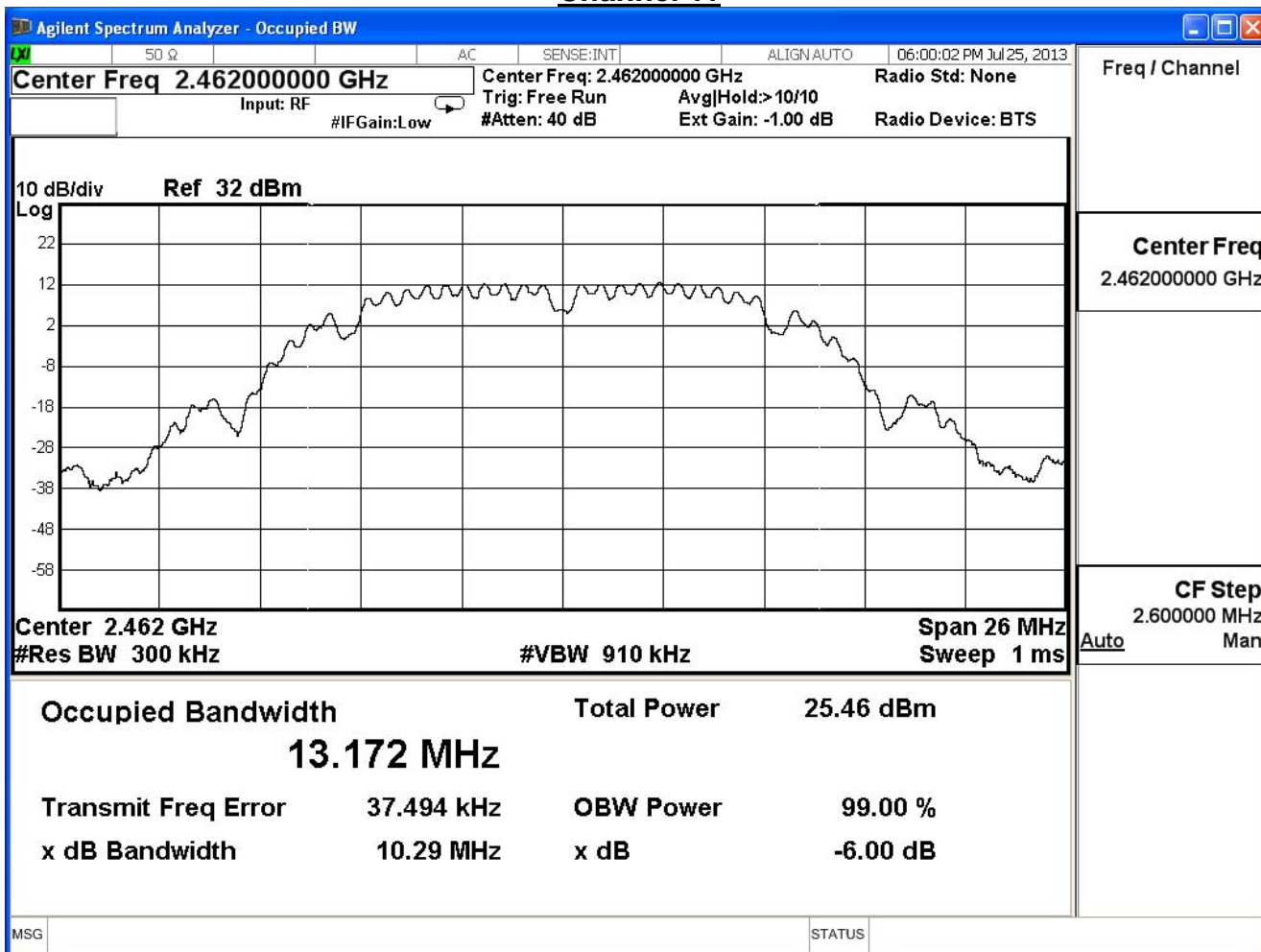




## Channel 6

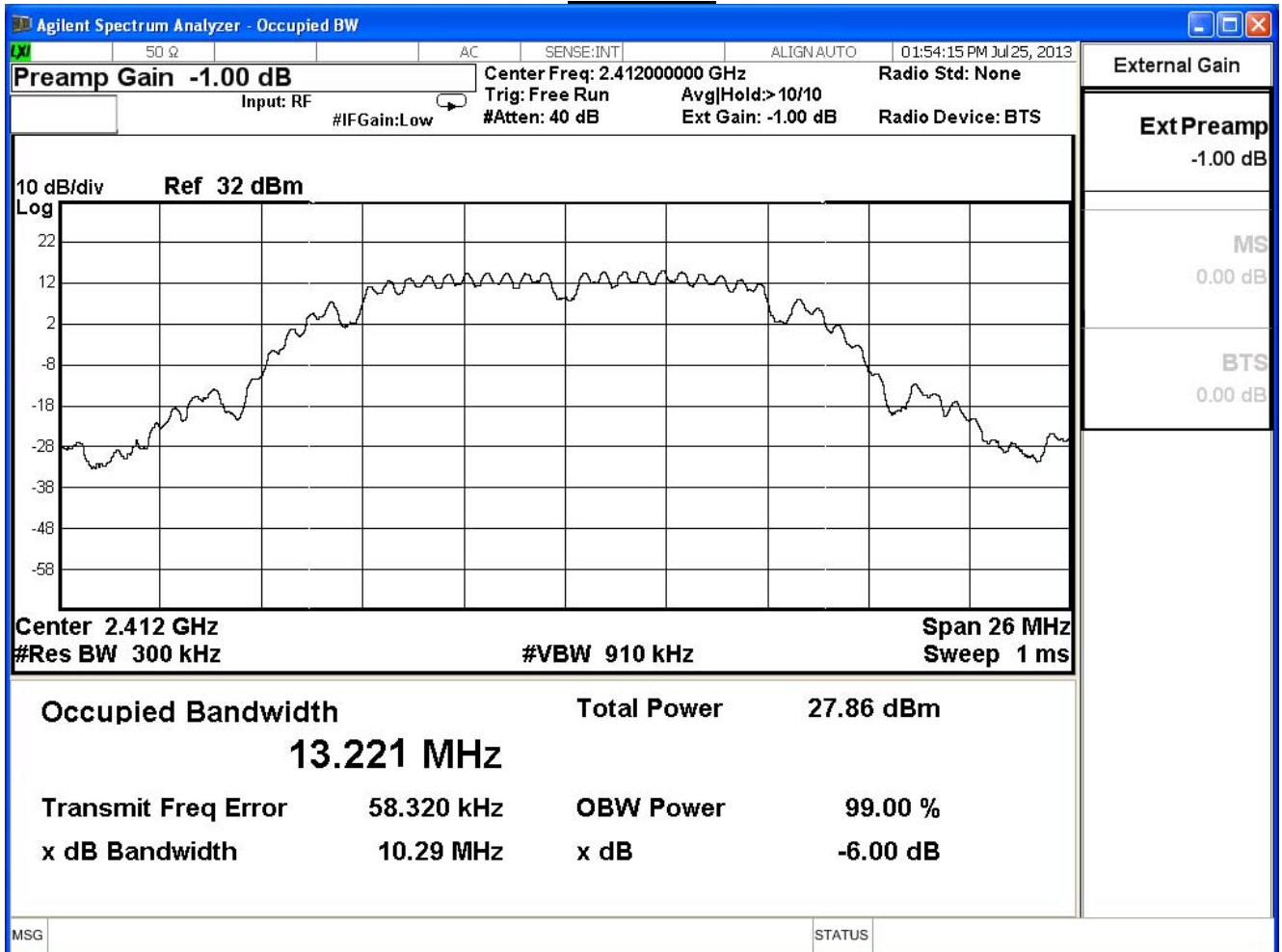


## Channel 11

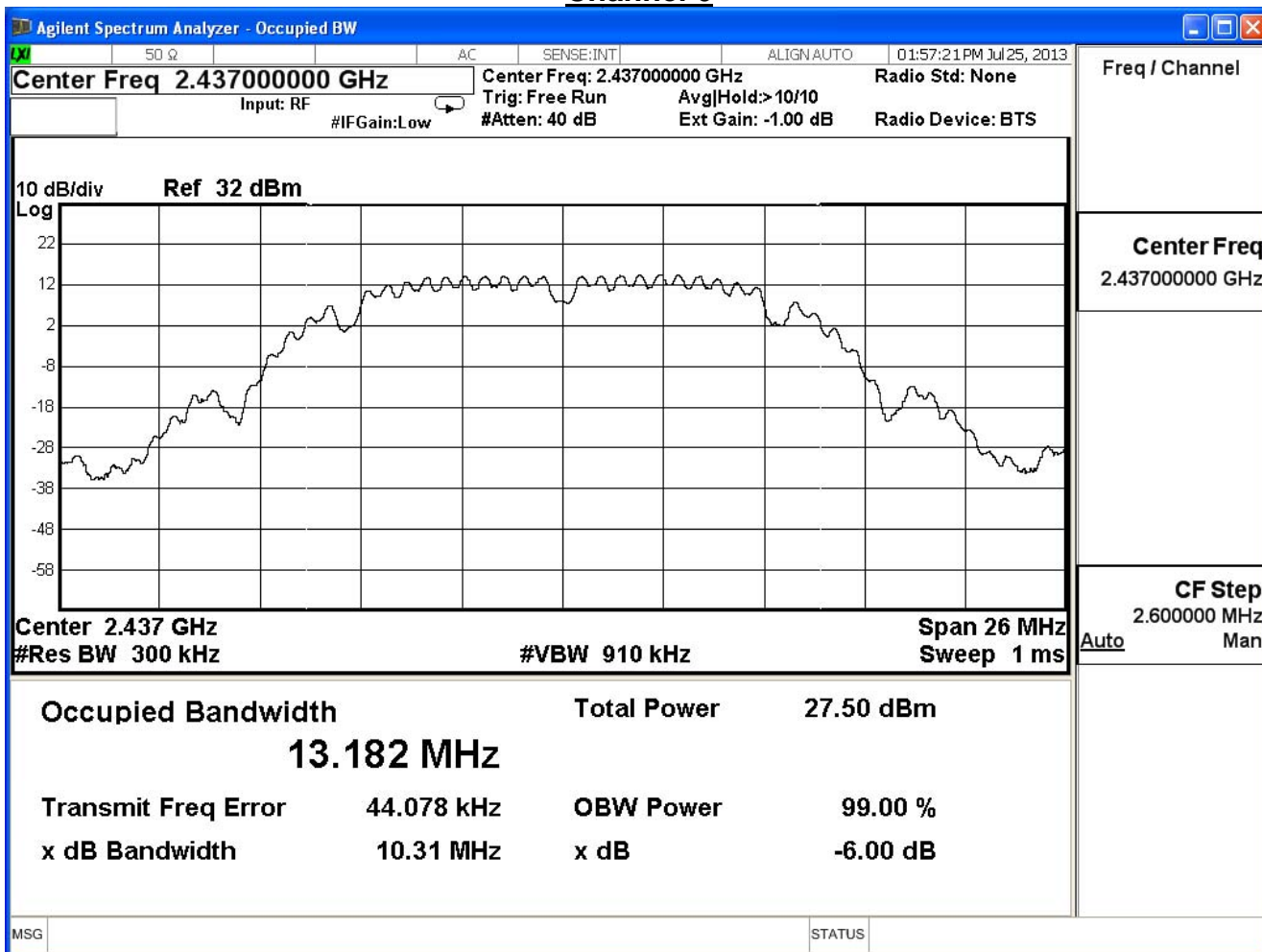


802.11 b (ANT1)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
1	2412	10.29	$\geq 0.5$	Pass
6	2437	10.31	$\geq 0.5$	Pass
11	2462	10.29	$\geq 0.5$	Pass

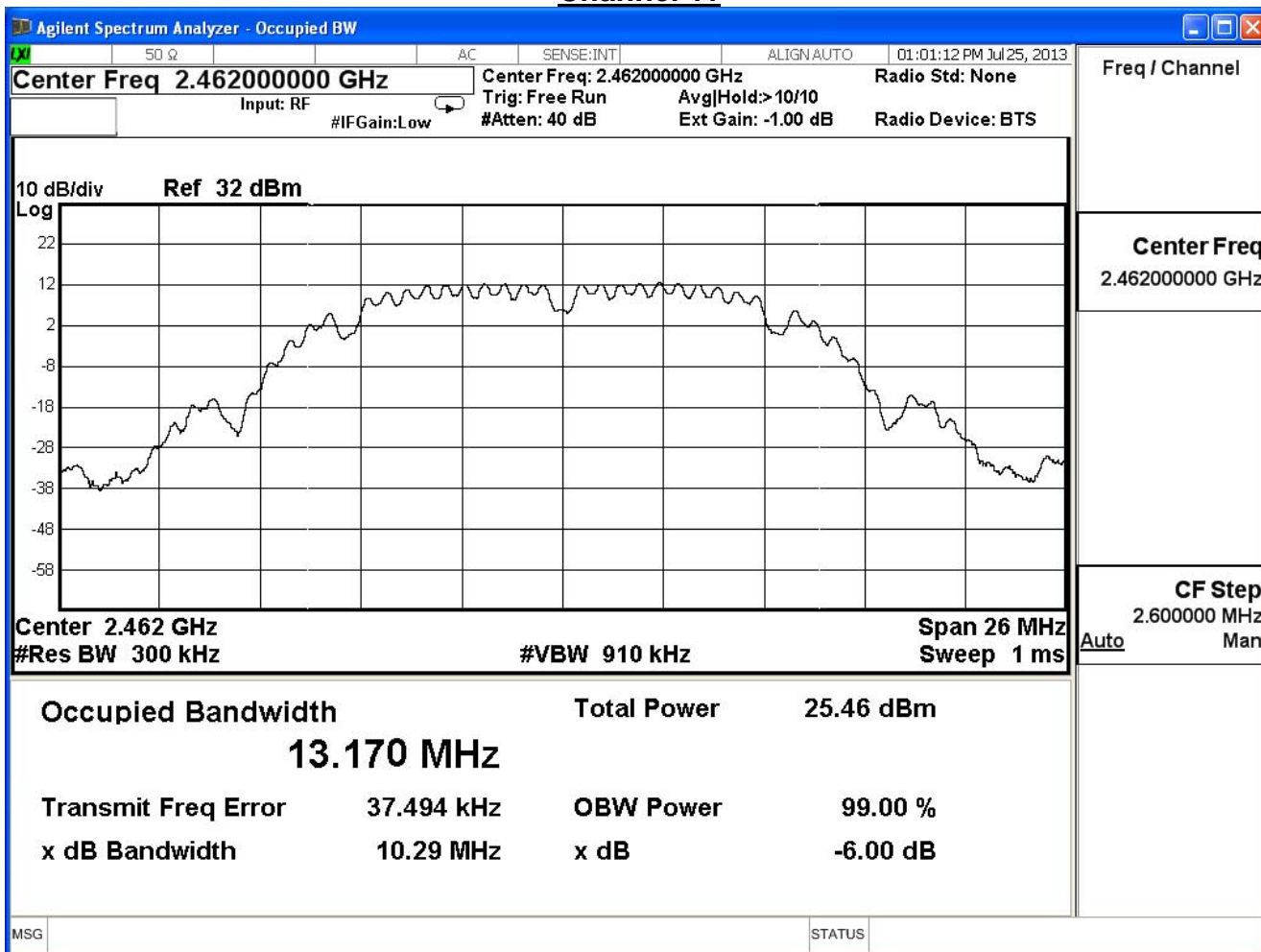
### Channel 1



## Channel 6

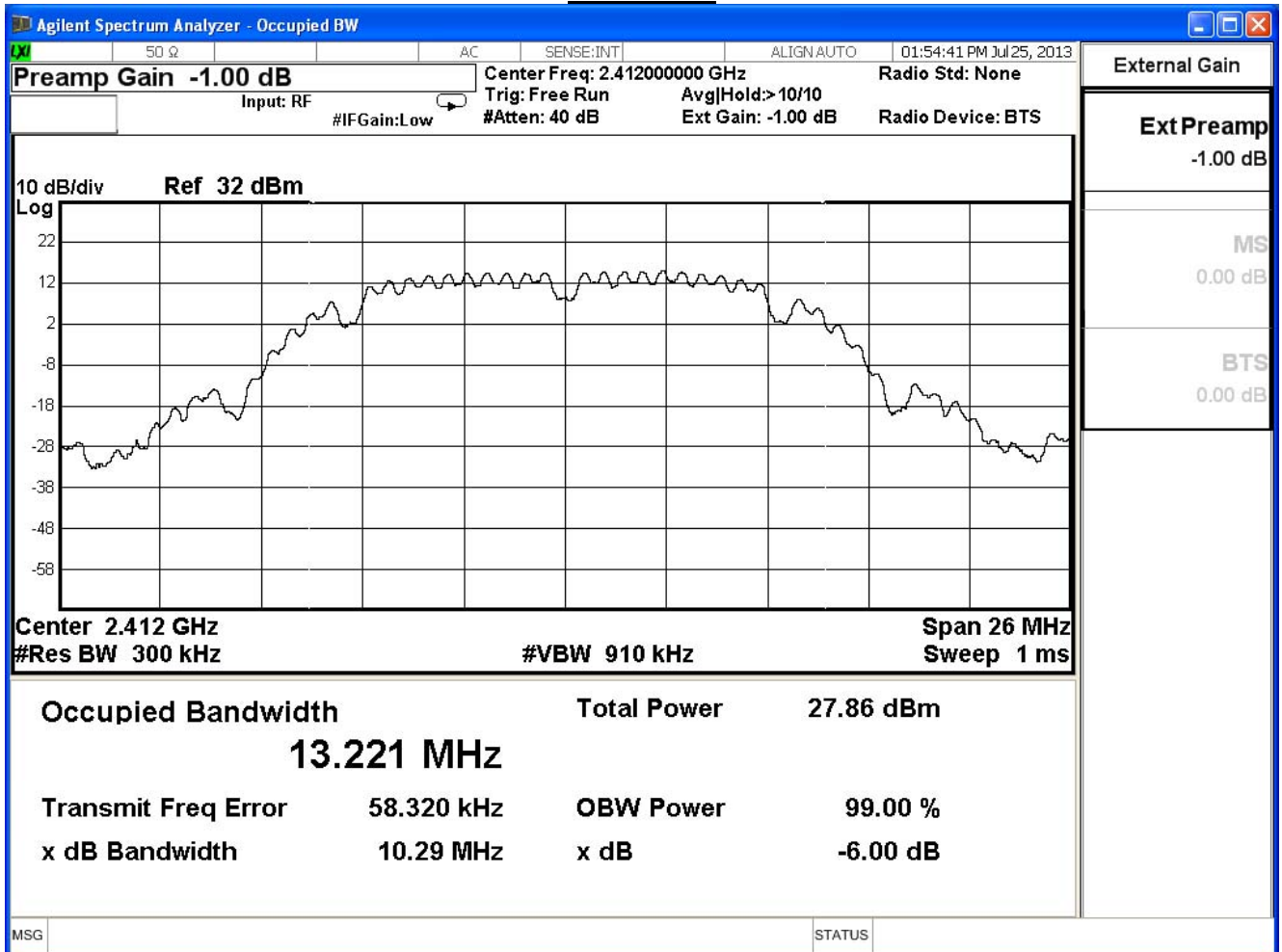


Channel 11

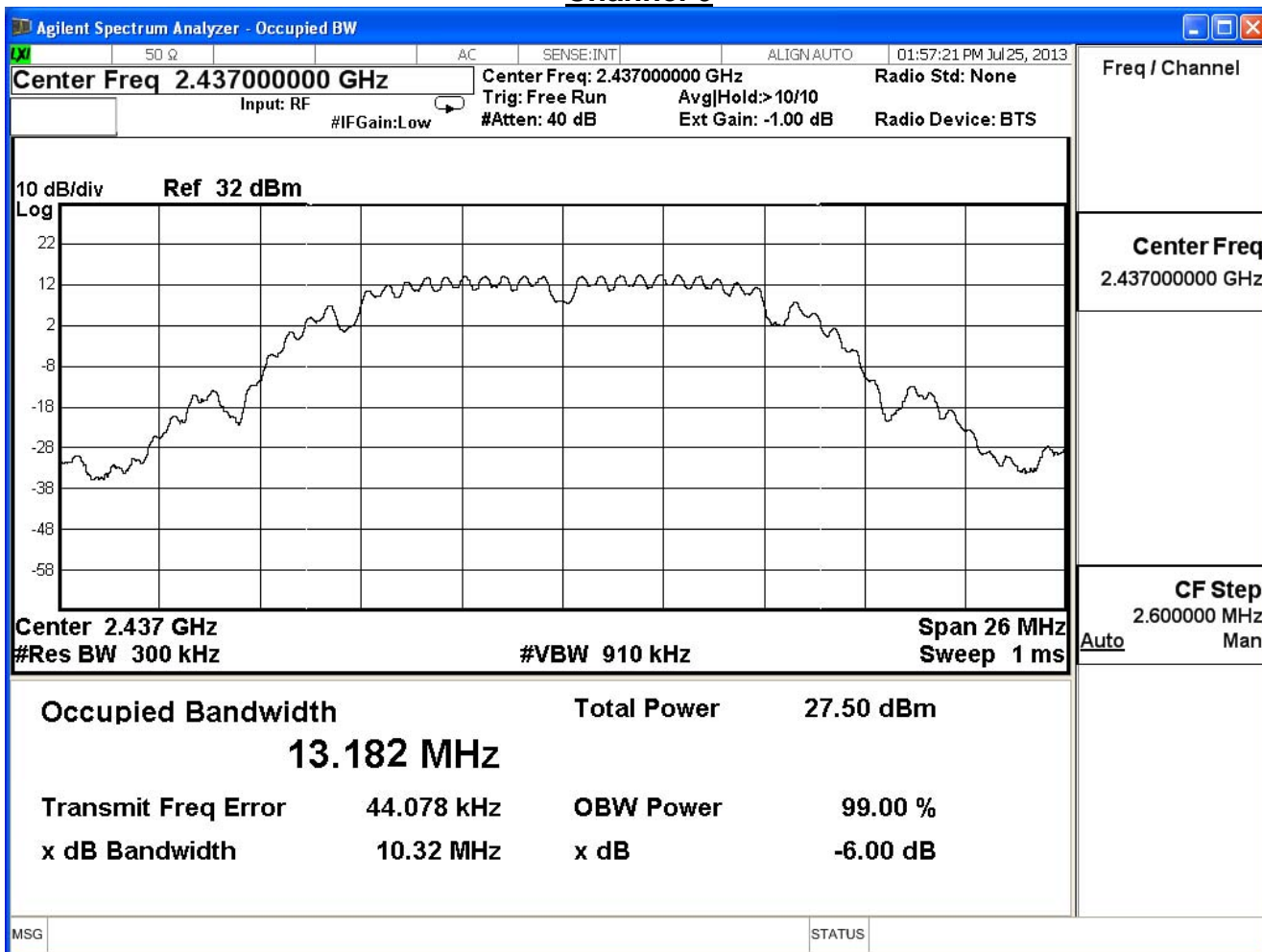


802.11 b (ANT2)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
1	2412	10.29	$\geq 0.5$	Pass
6	2437	10.32	$\geq 0.5$	Pass
11	2462	10.29	$\geq 0.5$	Pass

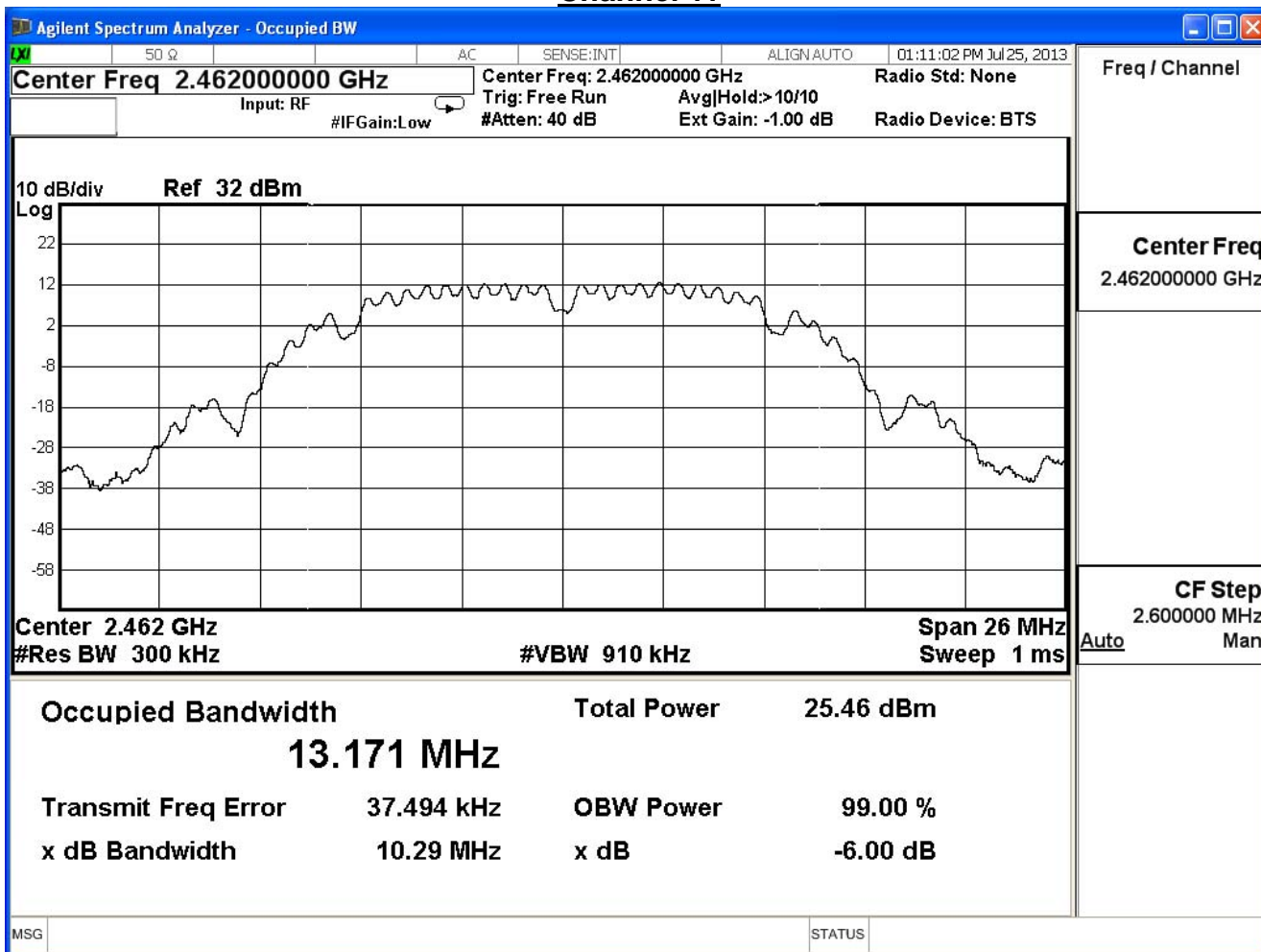
### Channel 1



Channel 6



Channel 11

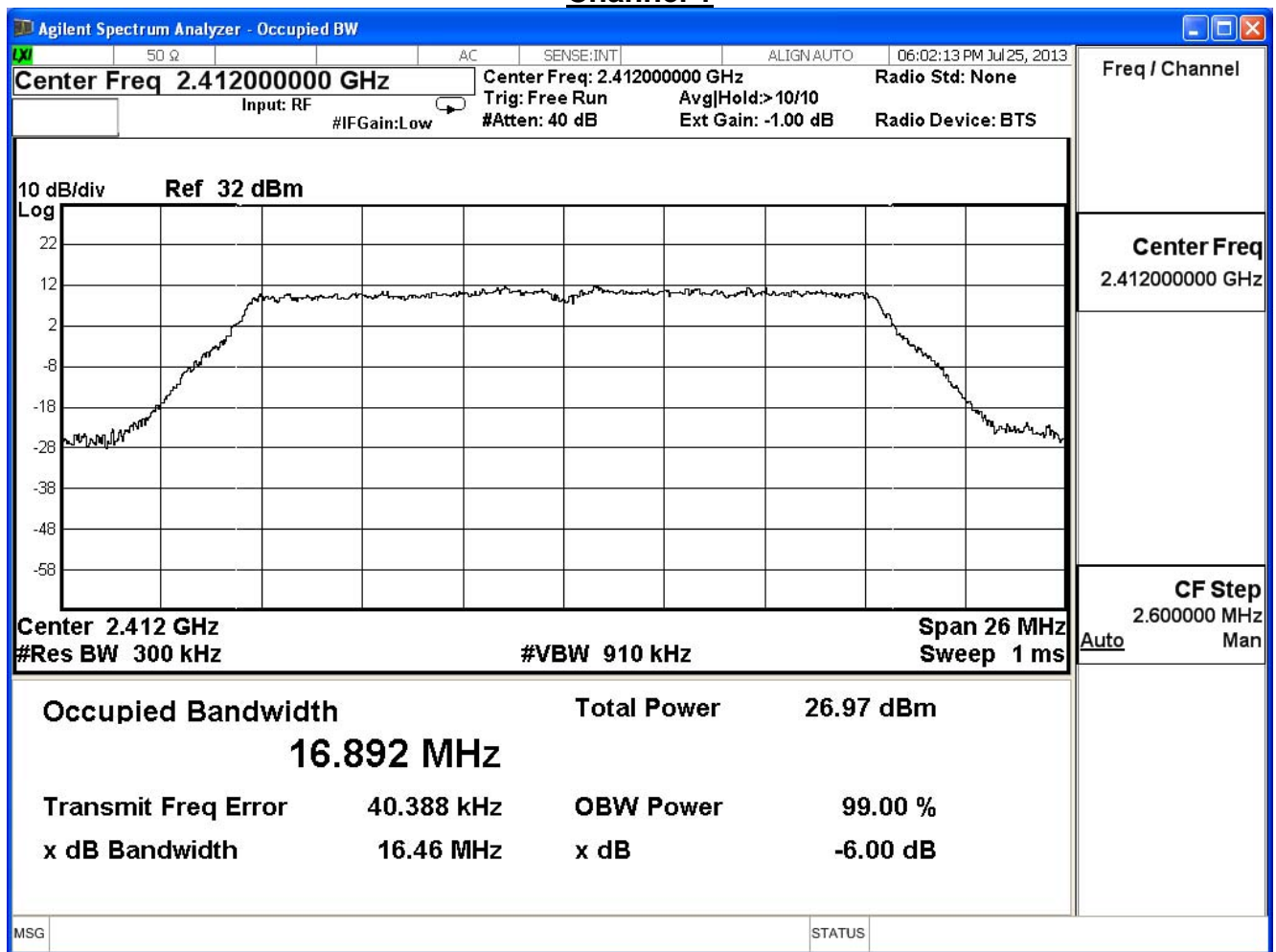




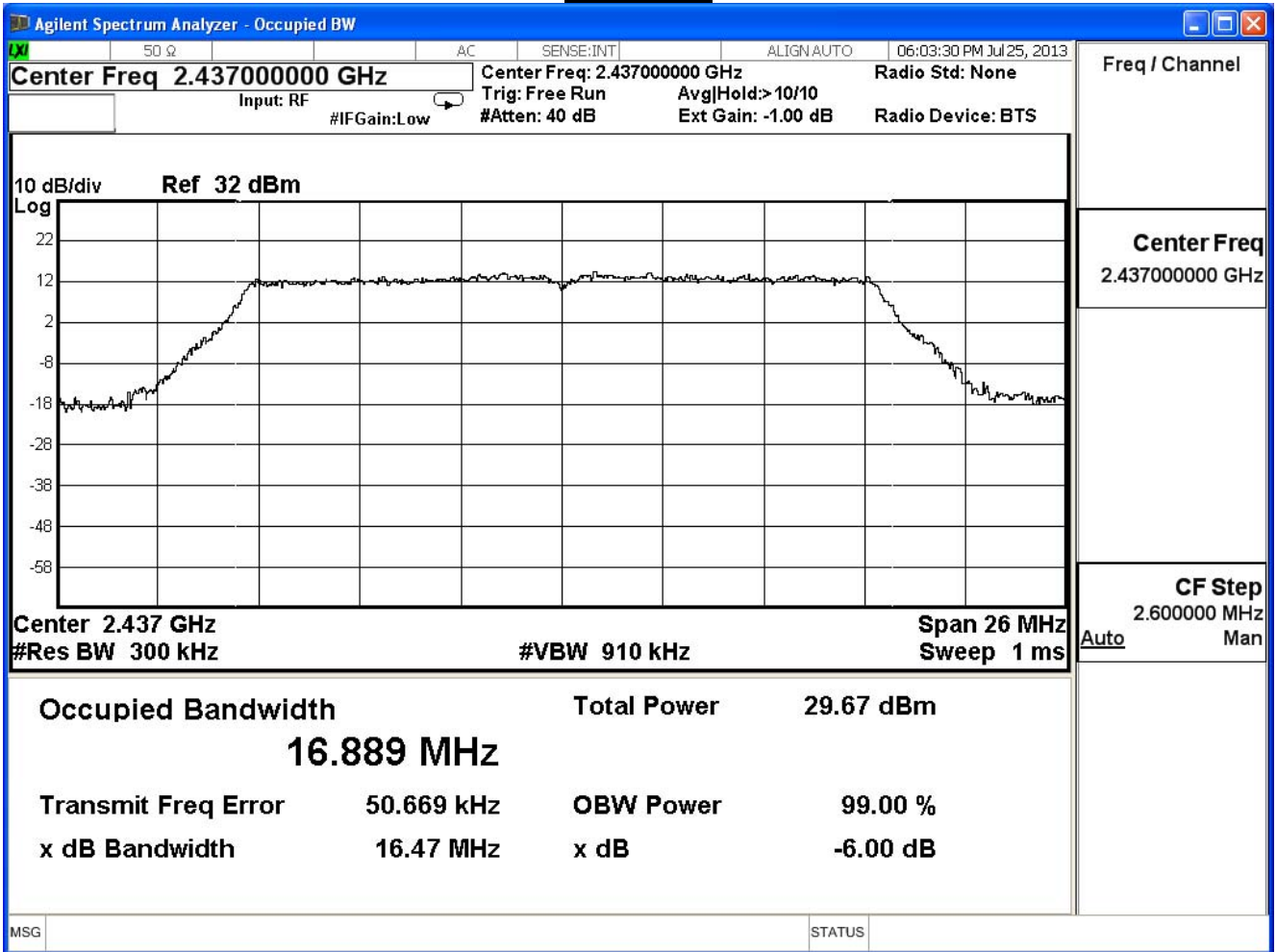
Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/07/31	Test Site	SR7

IEEE 802.11g (ANT0)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
1	2412	16.46	$\geq 0.5$	Pass
6	2437	16.47	$\geq 0.5$	Pass
11	2462	16.44	$\geq 0.5$	Pass

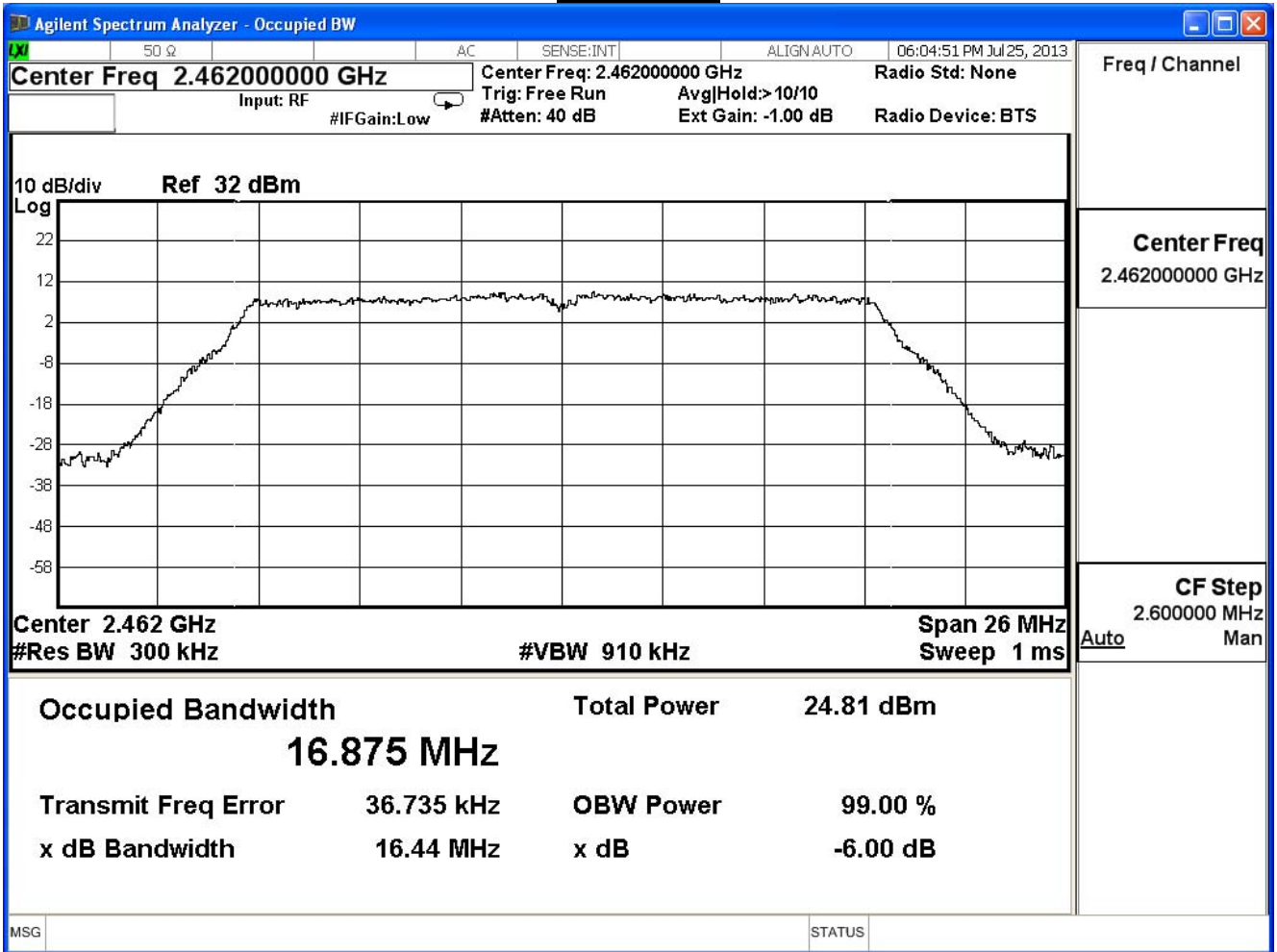
### Channel 1



Channel 6



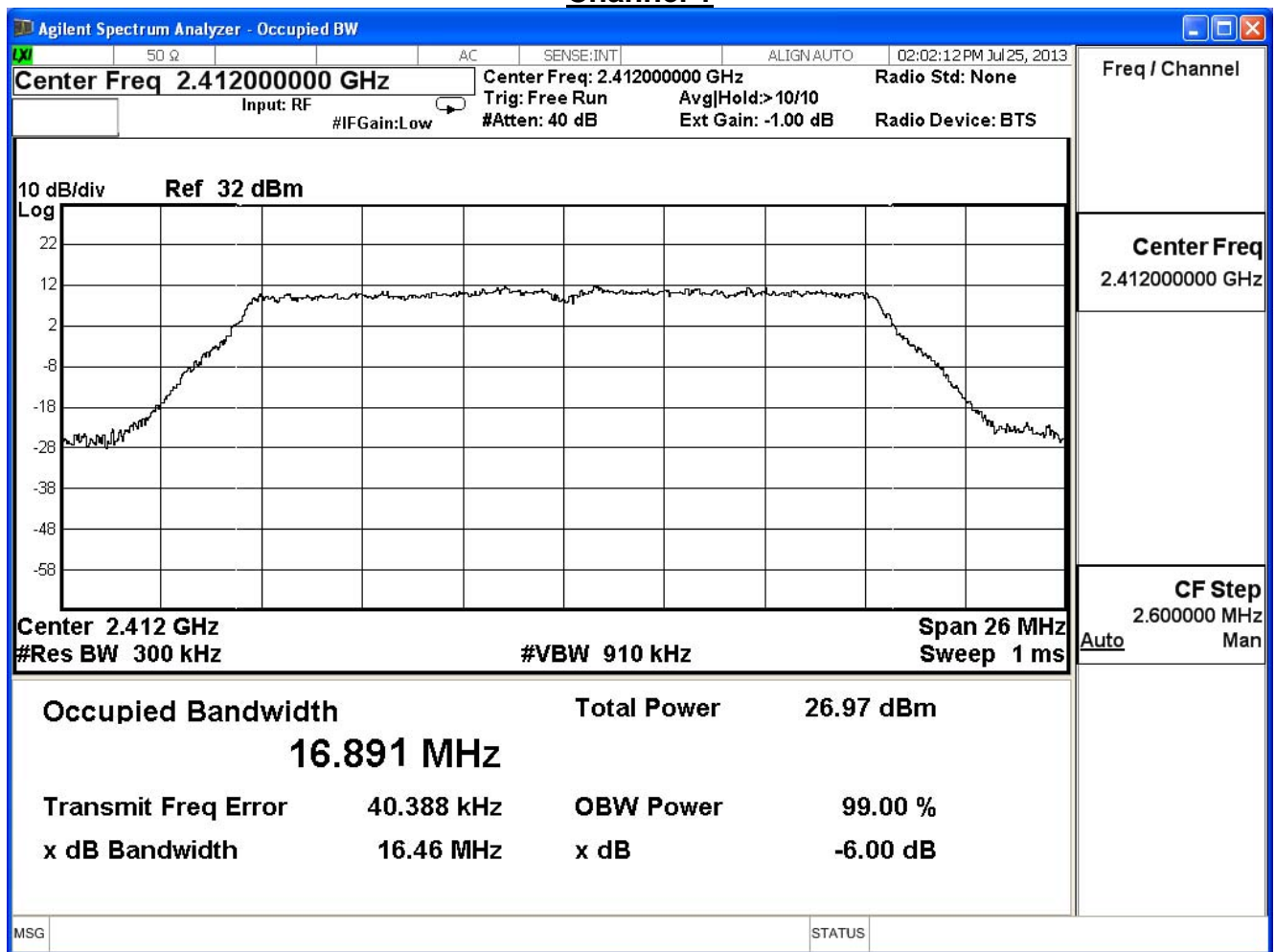
Channel 11



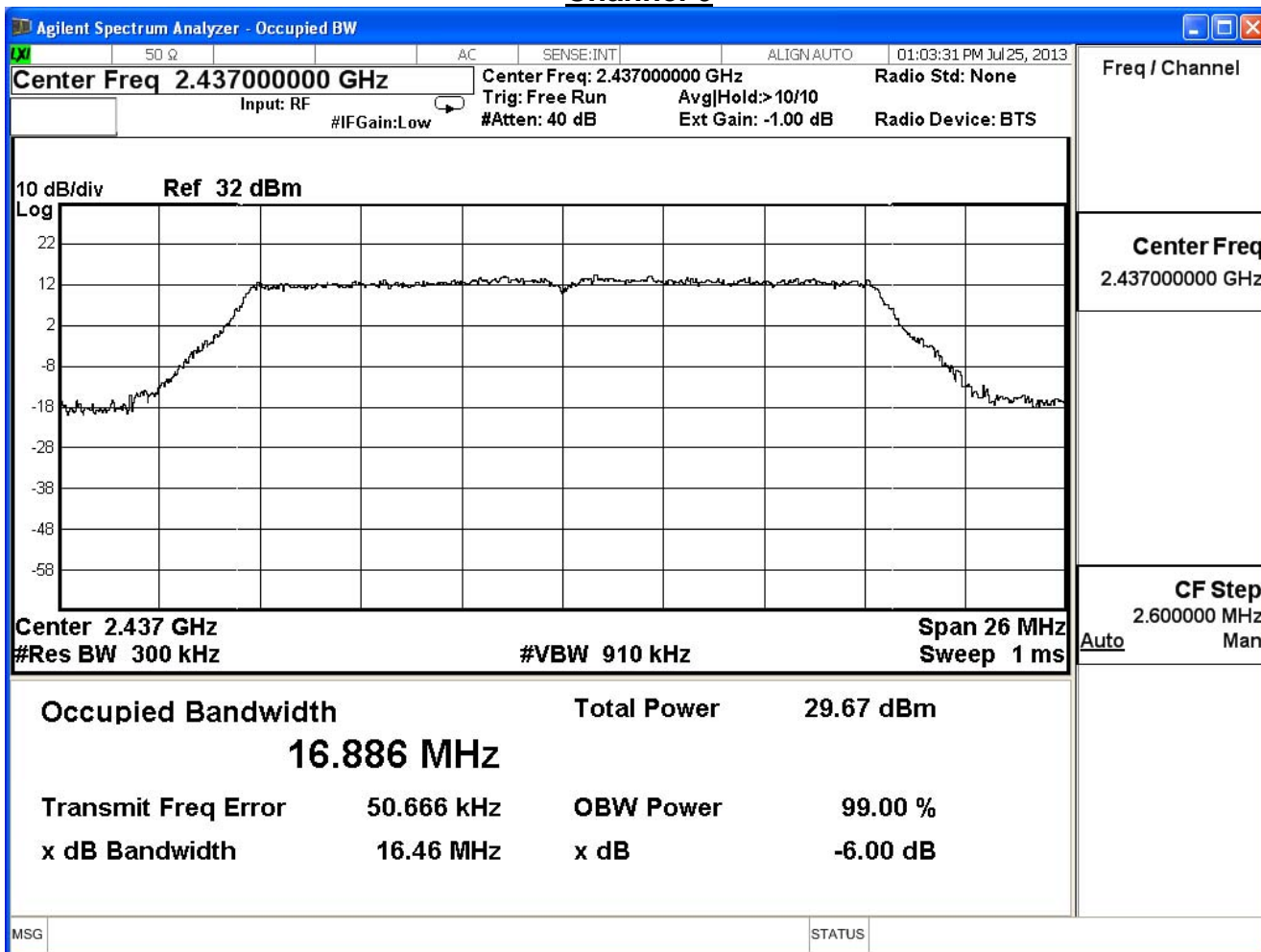
Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/07/31	Test Site	SR7

IEEE 802.11g (ANT1)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
1	2412	16.46	$\geq 0.5$	Pass
6	2437	16.46	$\geq 0.5$	Pass
11	2462	16.43	$\geq 0.5$	Pass

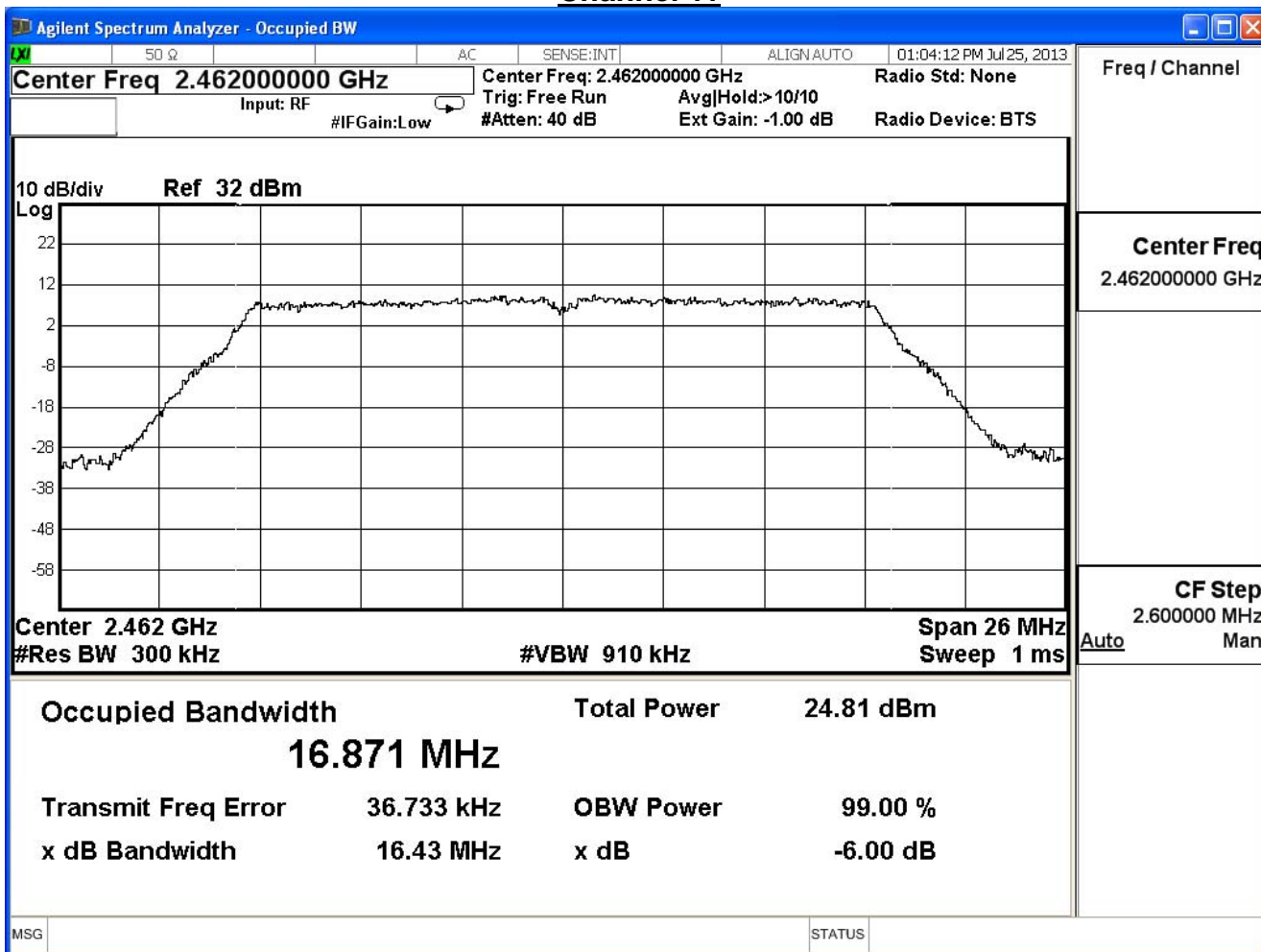
### Channel 1



Channel 6



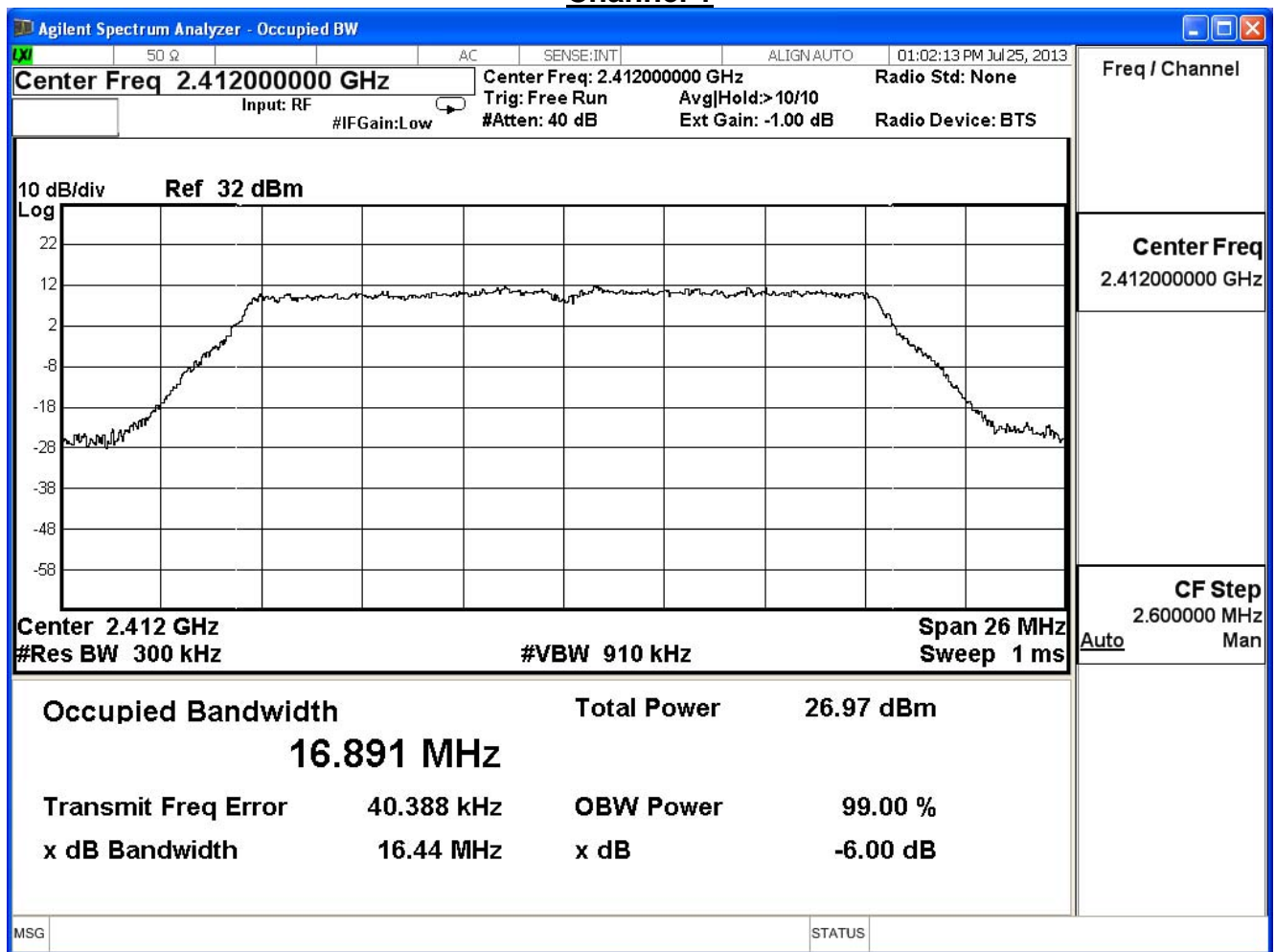
## Channel 11



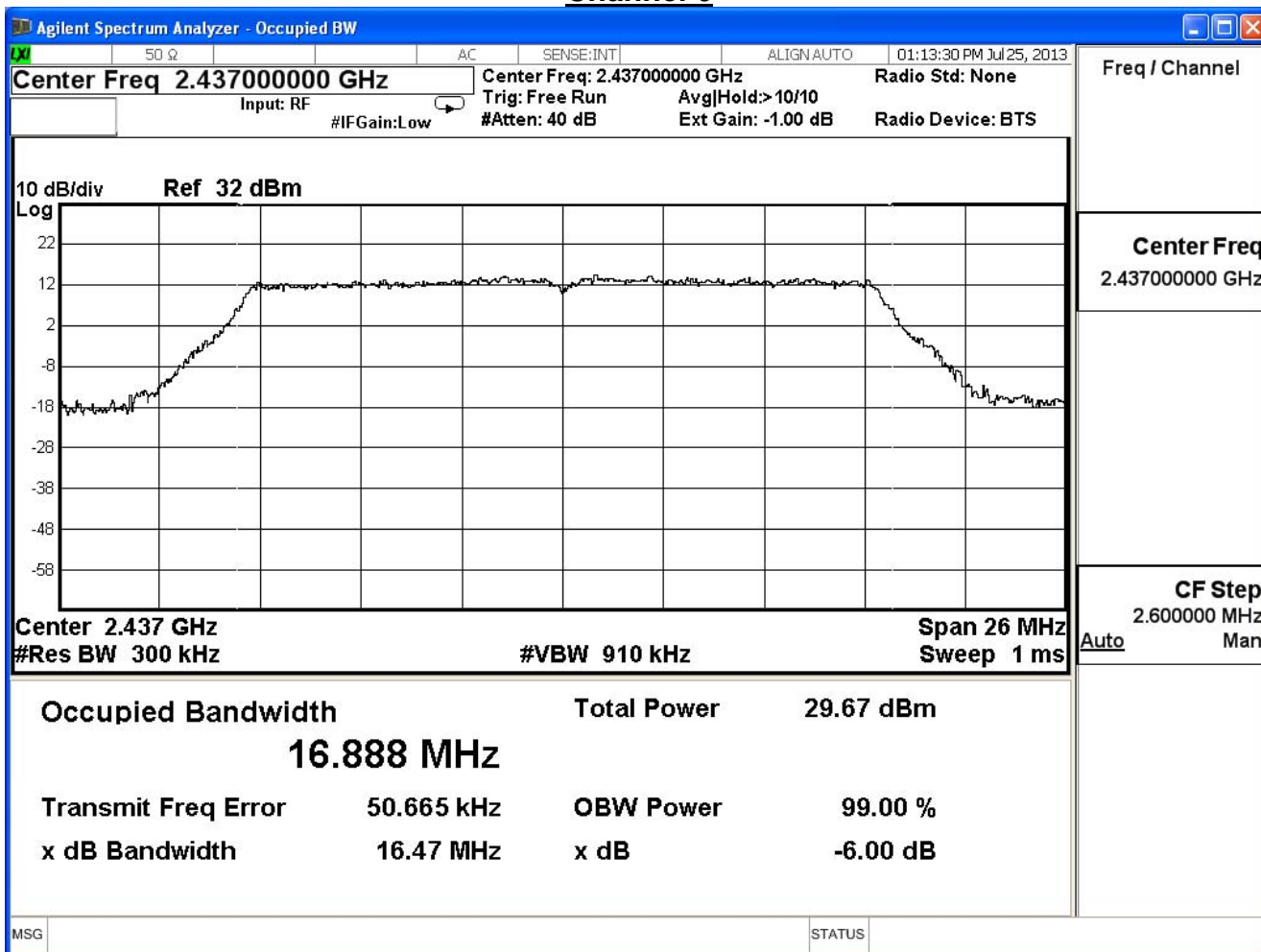
Product	Dual Band 3x3 802.11ac PCI-E Adapter		
Test Item	Occupied Bandwidth		
Test Mode	Mode 1: Transmit (CDD mode)		
Date of Test	2013/07/31	Test Site	SR7

IEEE 802.11g (ANT2)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
1	2412	16.44	$\geq 0.5$	Pass
6	2437	16.47	$\geq 0.5$	Pass
11	2462	16.44	$\geq 0.5$	Pass

### Channel 1



Channel 6





## Channel 11

