7. Occupied Bandwidth

7.1. Test Equipment

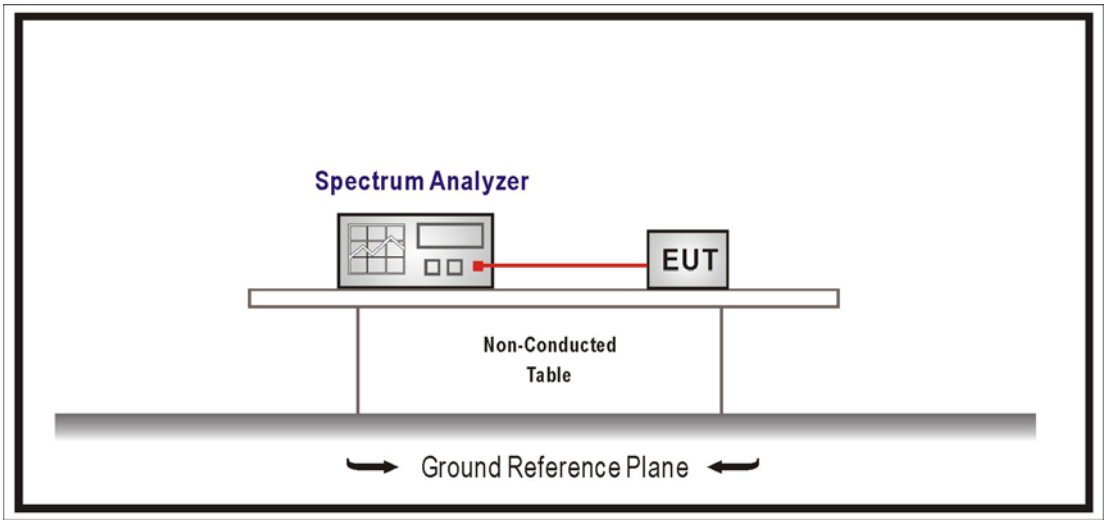
The following test equipments are used during the test:

Occupied Bandwidth / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2014/02/03

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

7.2. Test Setup



7.3. Test Procedures

The EUT was setup according to ANSI C63.4: 2009; tested according to DTS test procedure of Jan. 2012 KDB558074 for compliance to FCC 47CFR 15.247 requirements.
Set RBW = 100 kHz, Span greater than RBW.

7.4. Limits

The 6 dB bandwidth must be greater than 500 kHz.

7.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2011

7.6. Uncertainty

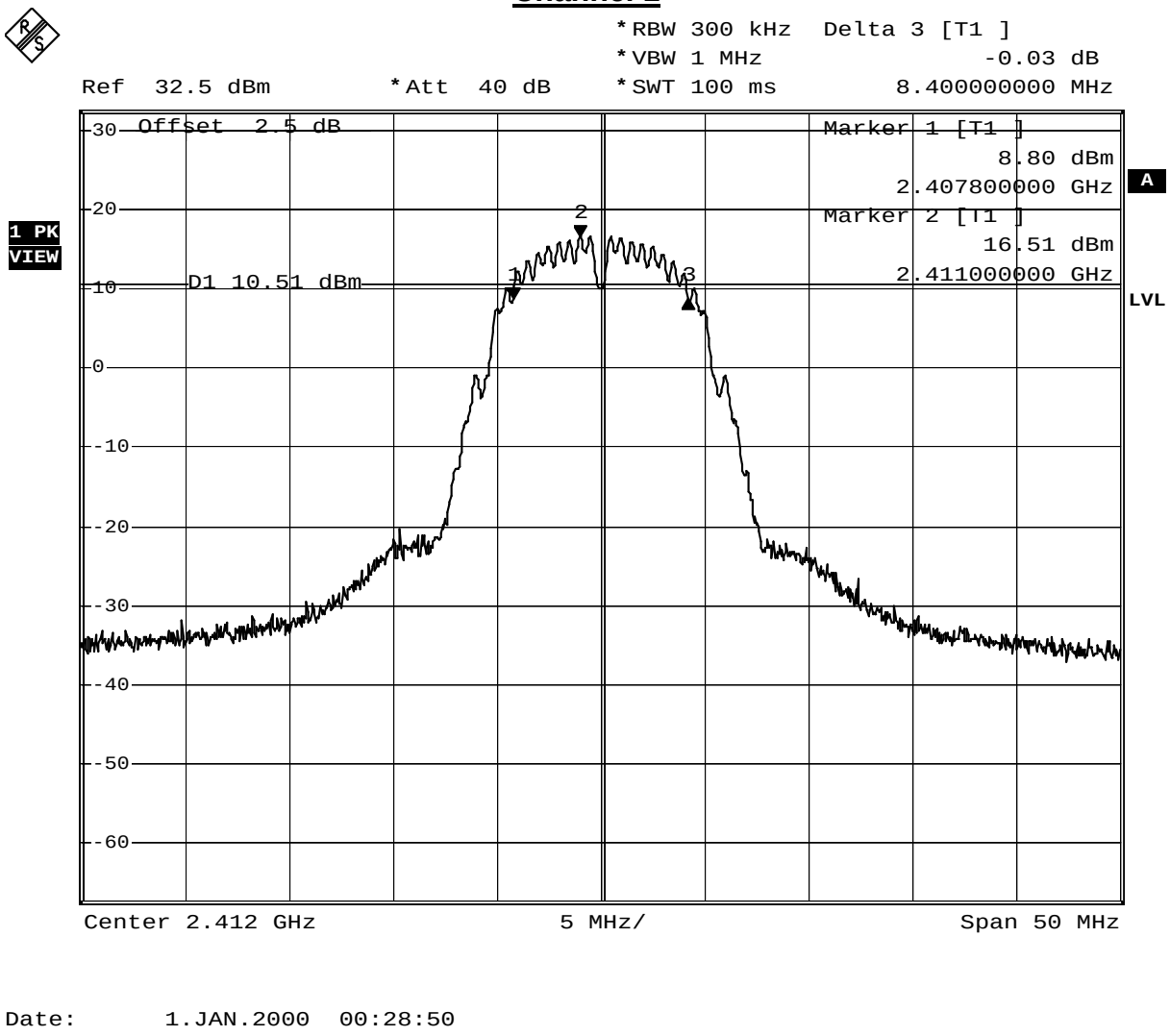
The measurement uncertainty is defined as ±150Hz

7.7. Test Result

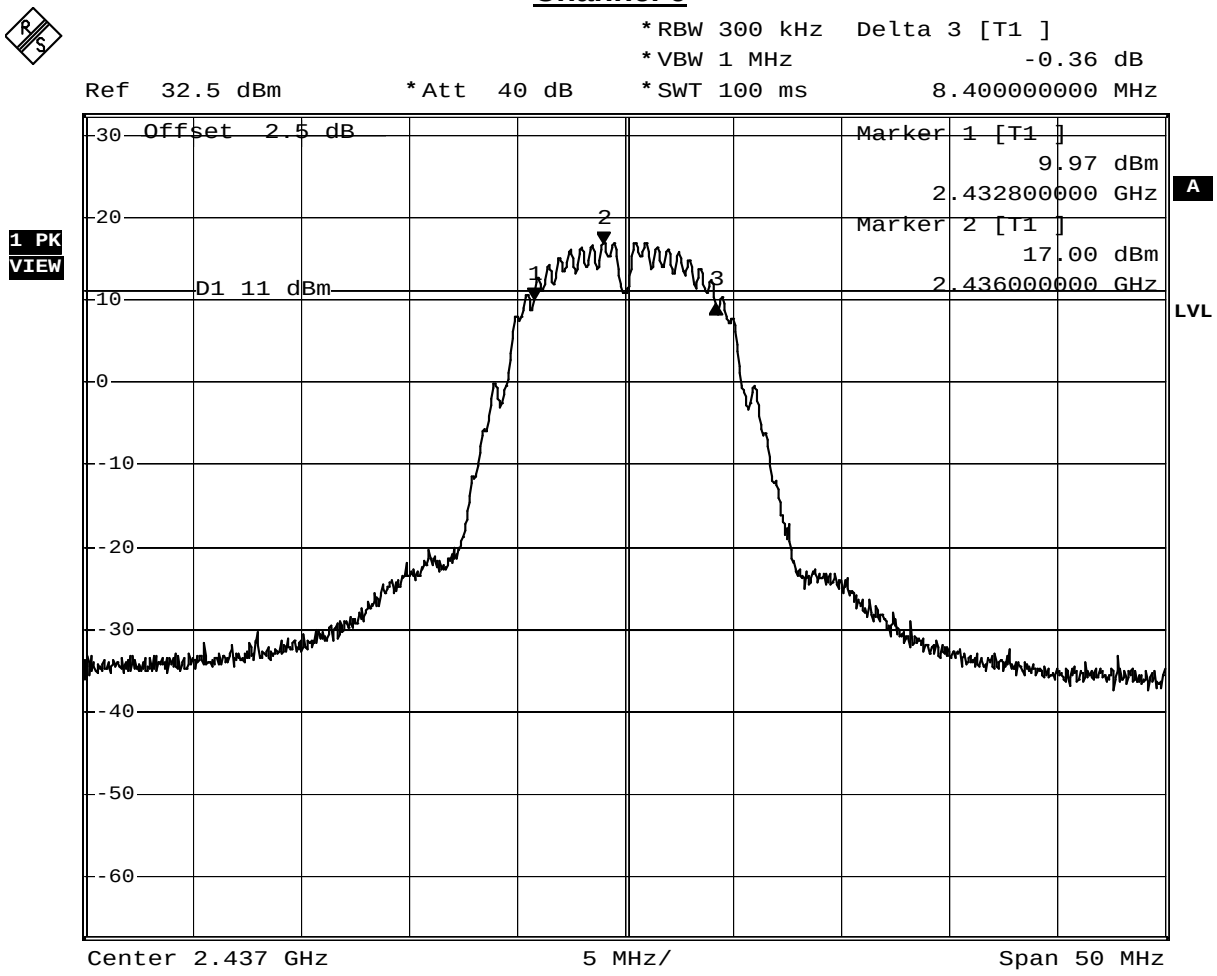
Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2013/01/08	Test Site	SR7

802.11 b				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
1	2412	8.40	≧0.5	Pass
6	2437	8.40	≧0.5	Pass
11	2462	8.40	≧0.5	Pass

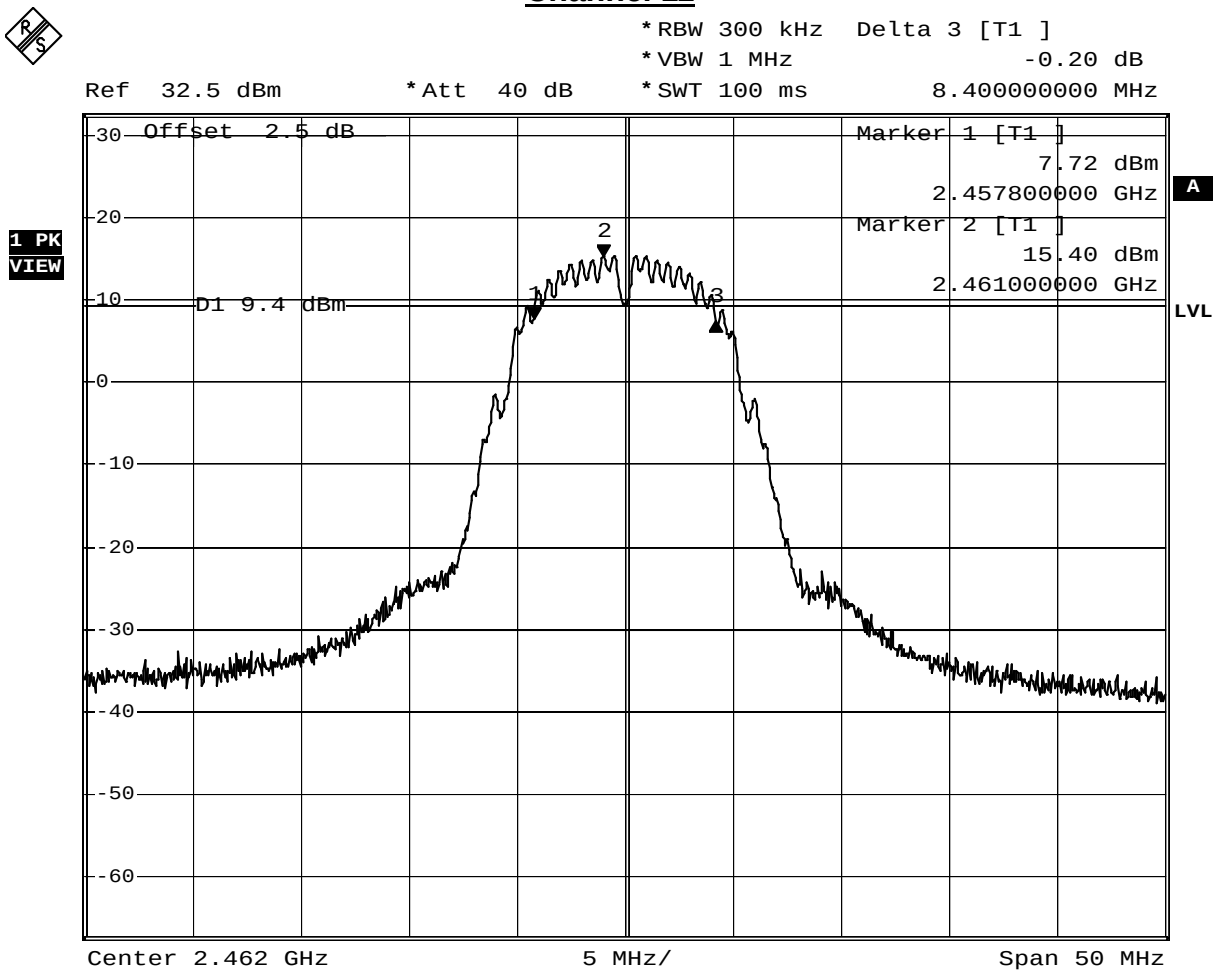
Channel 1



Channel 6


*RBW 300 kHz
*VBW 1 MHz
*SWT 100 ms
Delta 3 [T1]
-0.36 dB
8.400000000 MHz
Ref 32.5 dBm
*Att 40 dB
Offset 2.5 dB
Marker 1 [T1]
9.97 dBm
2.432800000 GHz
Marker 2 [T1]
17.00 dBm
2.436000000 GHz
1 PK
VIEW
D1 11 dBm
A
LVL
30
20
10
0
-10
-20
-30
-40
-50
-60
Center 2.437 GHz
5 MHz/
Span 50 MHz
Date: 1.JAN.2000 00:33:37

Channel 11

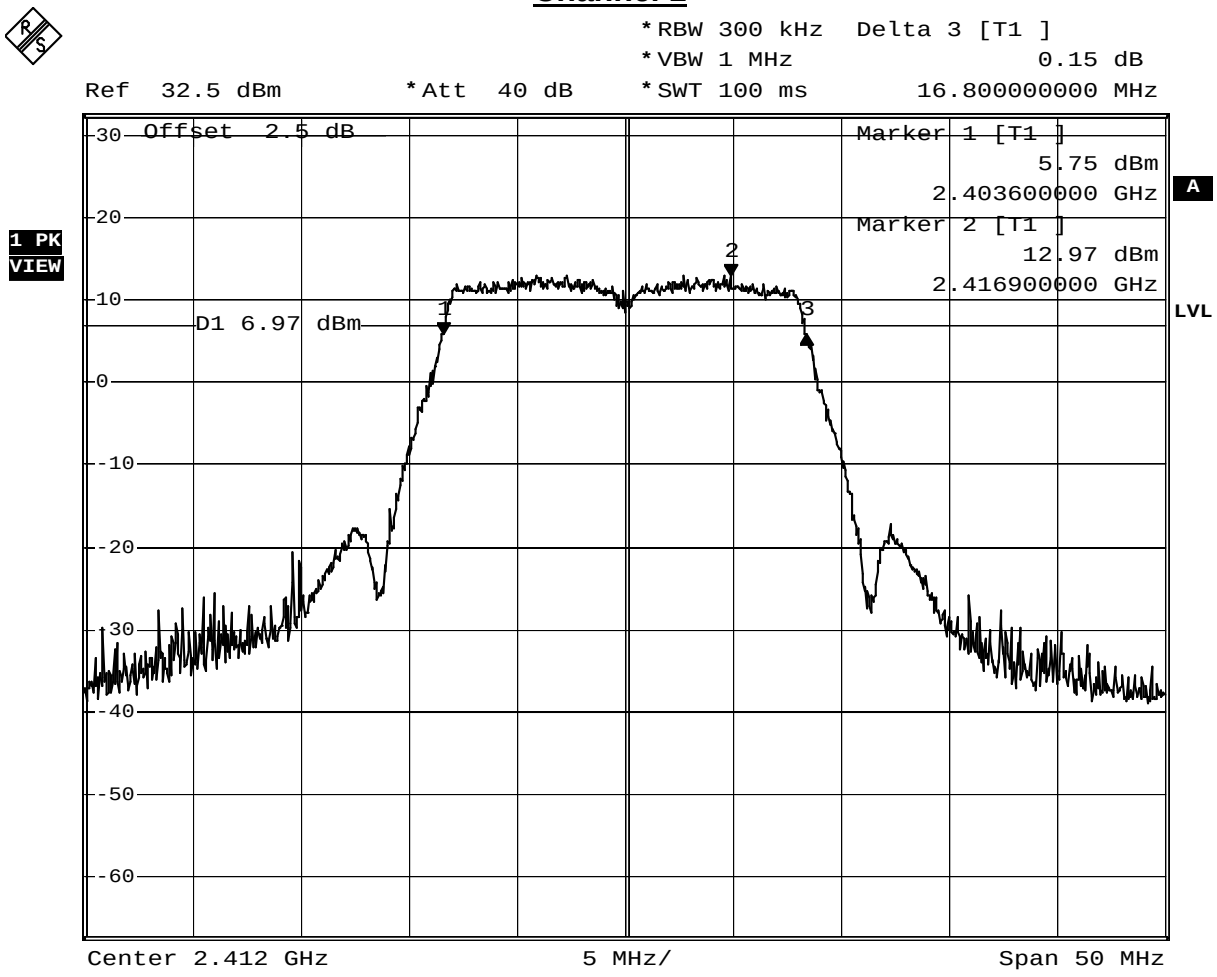


Date: 1.JAN.2000 00:40:18

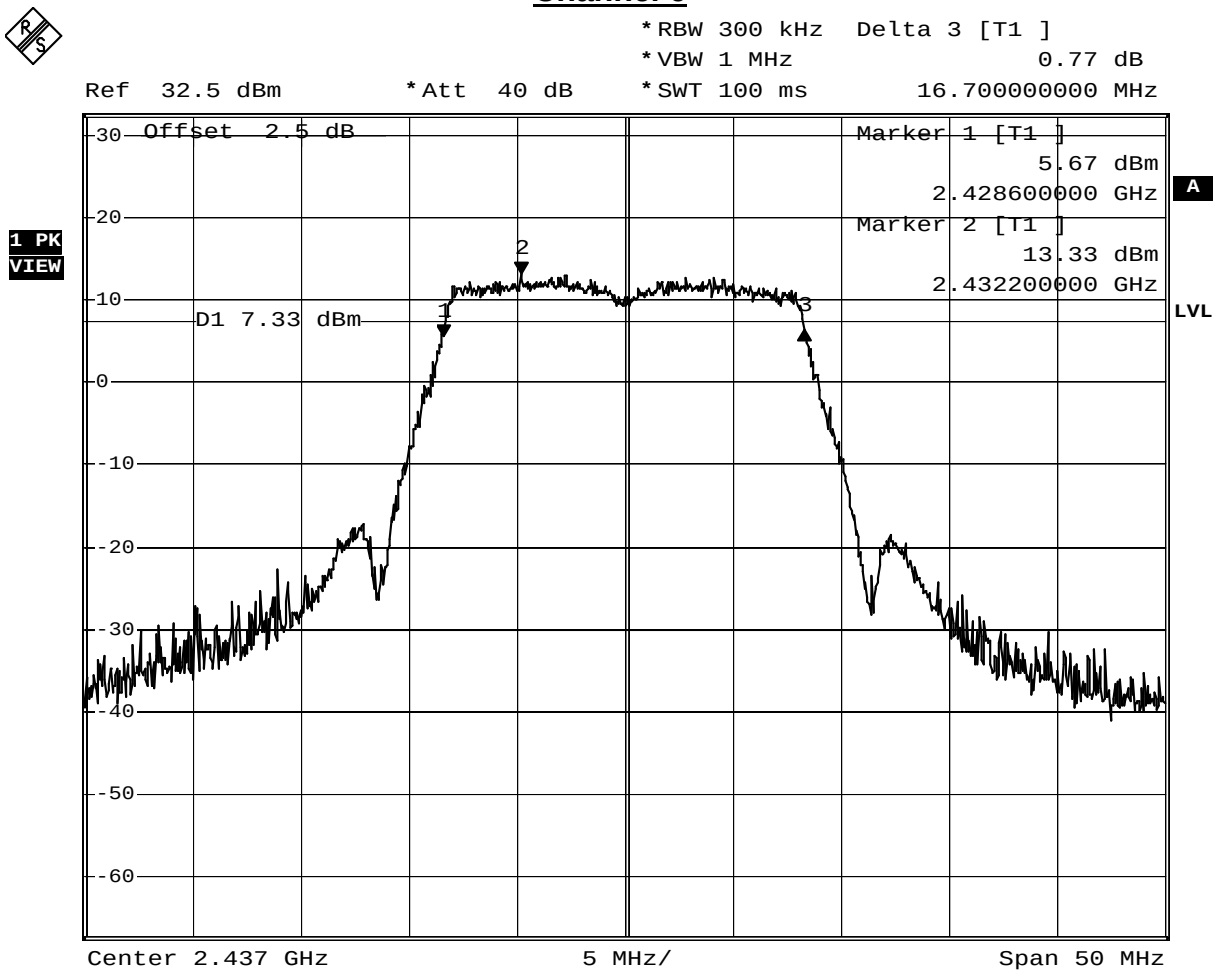
Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2013/01/08	Test Site	SR7

IEEE 802.11g				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
1	2412	16.80	≧0.5	Pass
6	2437	16.70	≧0.5	Pass
11	2462	16.75	≧0.5	Pass

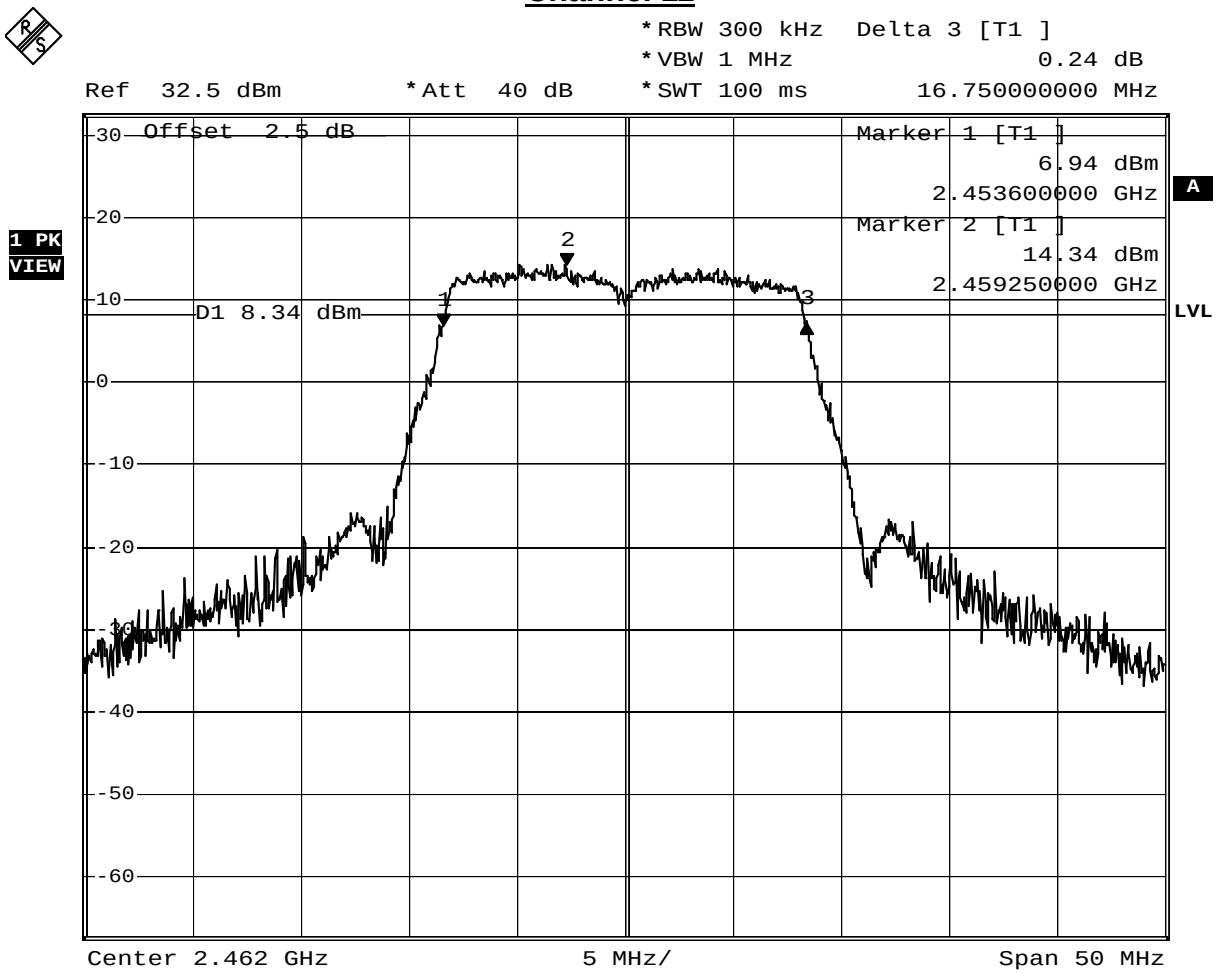
Channel 1



Channel 6


*RBW 300 kHz
*VBW 1 MHz
*SWT 100 ms
Delta 3 [T1]
0.77 dB
16.700000000 MHz
Ref 32.5 dBm
*Att 40 dB
Offset 2.5 dB
Marker 1 [T1]
5.67 dBm
2.428600000 GHz
Marker 2 [T1]
13.33 dBm
2.432200000 GHz
D1 7.33 dBm
1 PK
VIEW
A
LVL
30
20
10
0
-10
-20
-30
-40
-50
-60
Center 2.437 GHz
5 MHz/
Span 50 MHz
Date: 1.JAN.2000 00:47:56

Channel 11

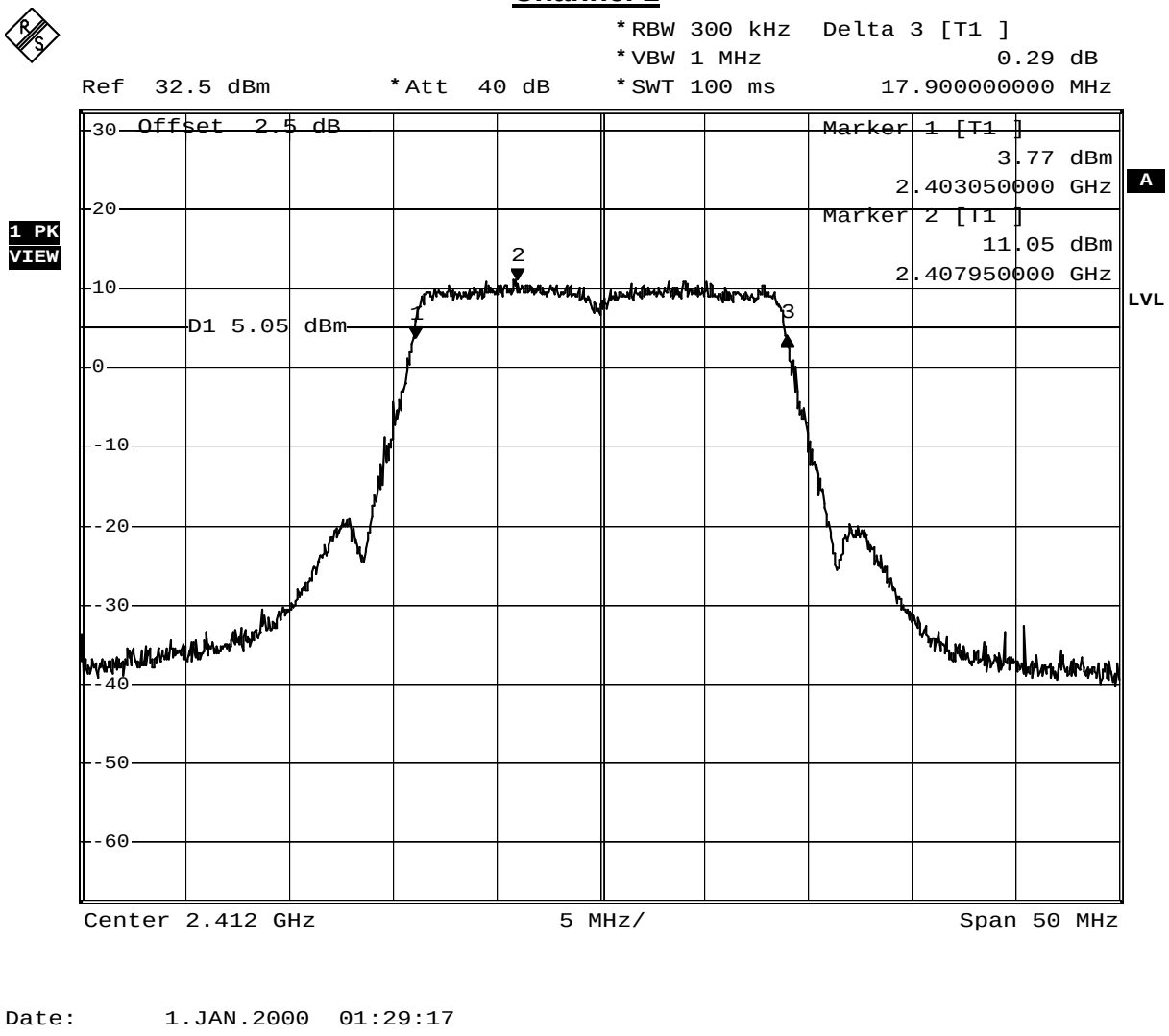


Date: 1.JAN.2000 00:41:54

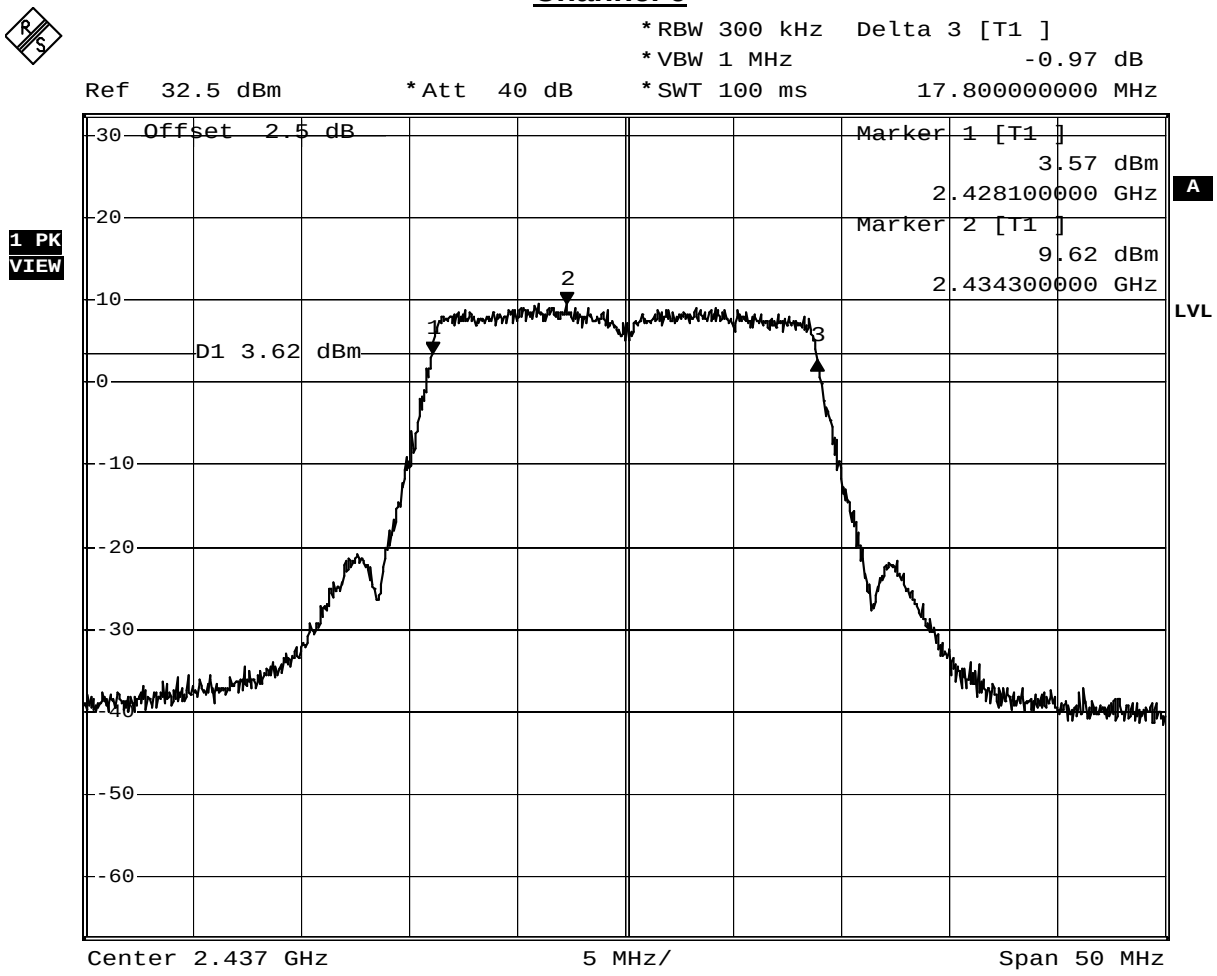
Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2013/01/08	Test Site	SR7

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

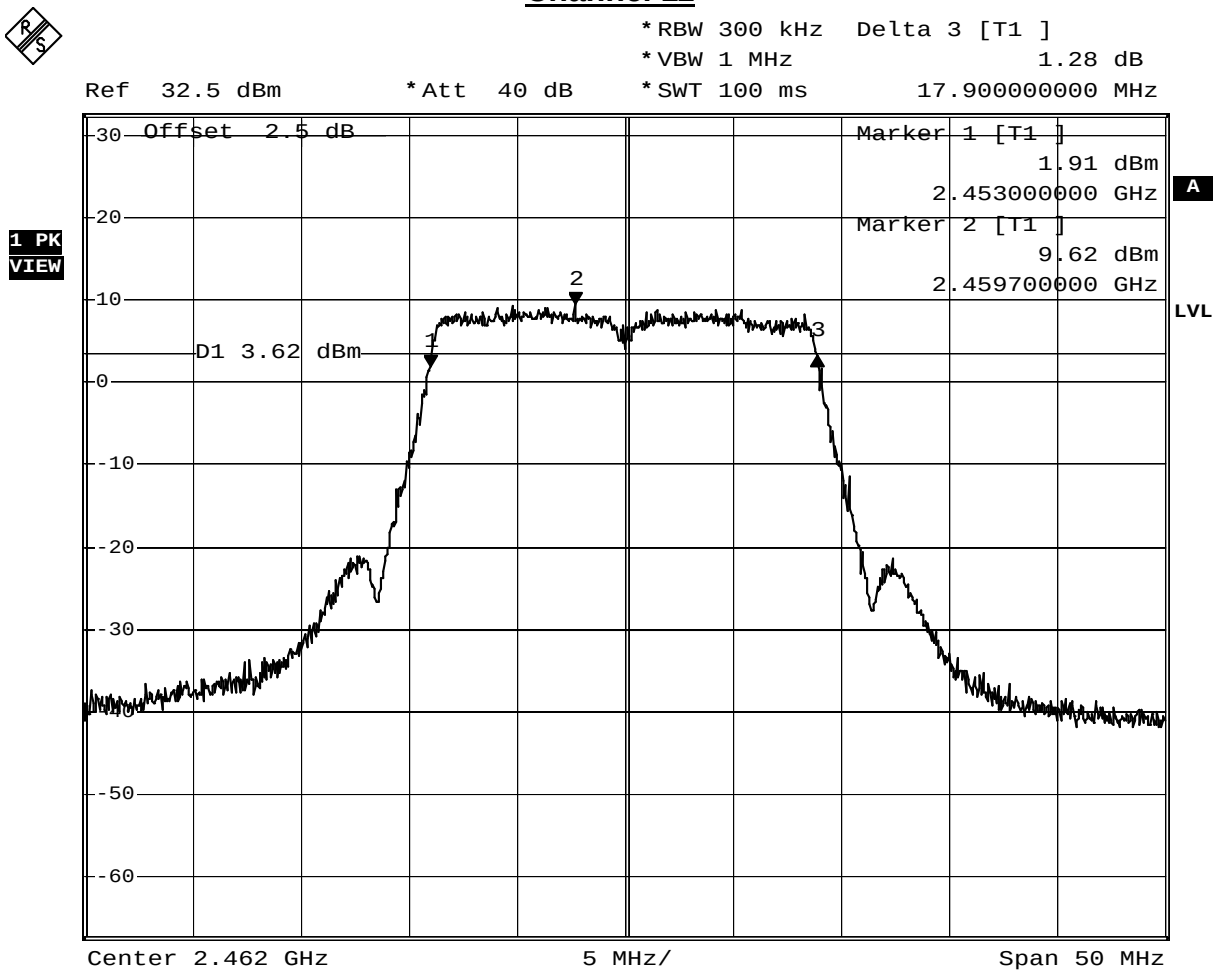
Channel 1



Channel 6


*RBW 300 kHz
Delta 3 [T1]
*VBW 1 MHz
-0.97 dB
Ref 32.5 dBm
*Att 40 dB
*SWT 100 ms
17.800000000 MHz
Offset 2.5 dB
Marker 1 [T1]
3.57 dBm
2.428100000 GHz
Marker 2 [T1]
9.62 dBm
2.434300000 GHz
1 PK
VIEW
A
LVL
D1 3.62 dBm
30
20
10
0
-10
-20
-30
-40
-50
-60
Center 2.437 GHz
5 MHz/
Span 50 MHz
Date: 1.JAN.2000 01:38:10

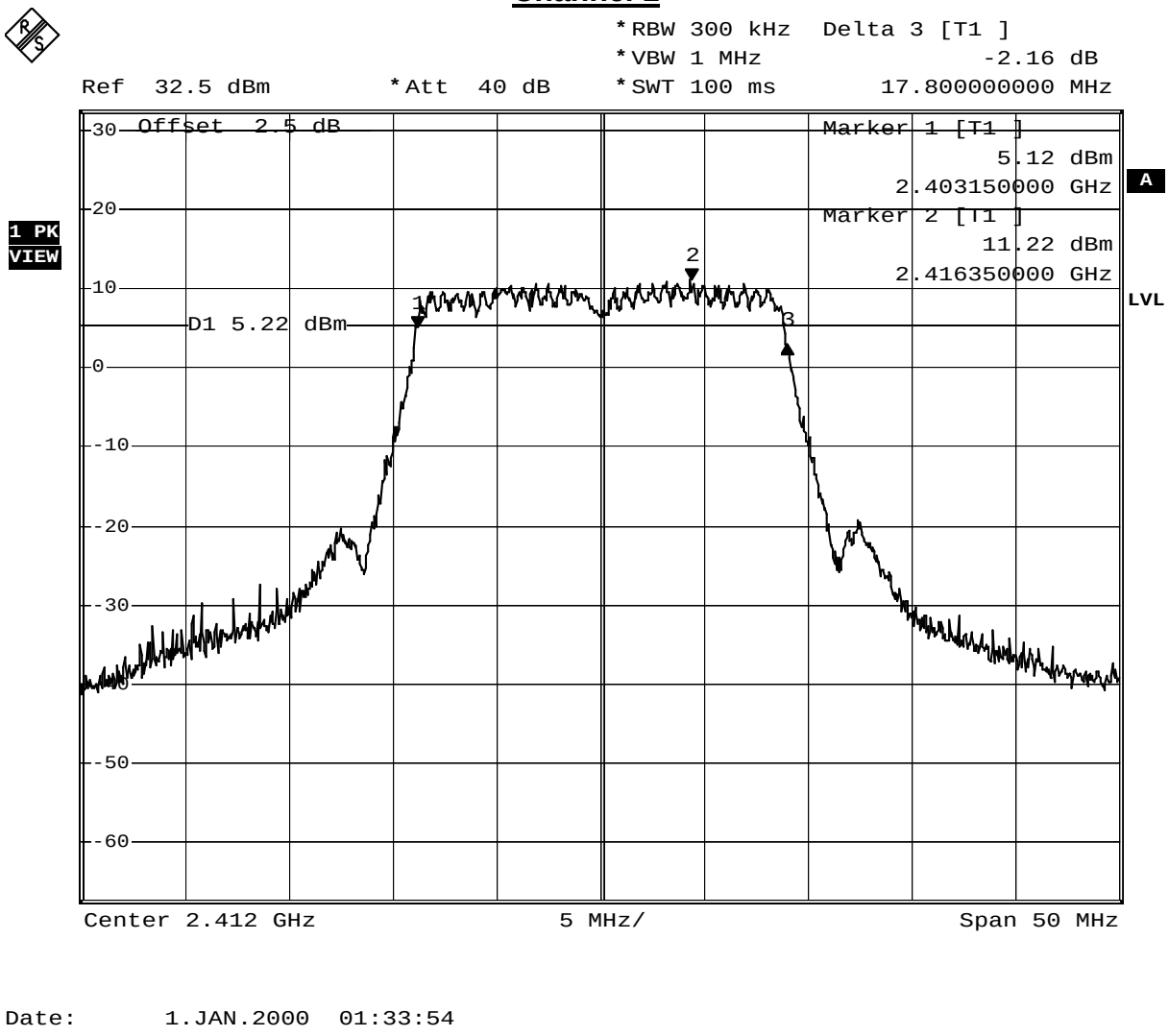
Channel 11


*RBW 300 kHz
*VBW 1 MHz
*SWT 100 ms
Delta 3 [T1]
1.28 dB
17.900000000 MHz
Ref 32.5 dBm
*Att 40 dB
Offset 2.5 dB
Marker 1 [T1]
1.91 dBm
2.453000000 GHz
Marker 2 [T1]
9.62 dBm
2.459700000 GHz
D1 3.62 dBm
1 PK
VIEW
A
LVL
30
20
10
0
-10
-20
-30
-40
-50
-60
Center 2.462 GHz
5 MHz/
Span 50 MHz
Date: 1.JAN.2000 01:42:57

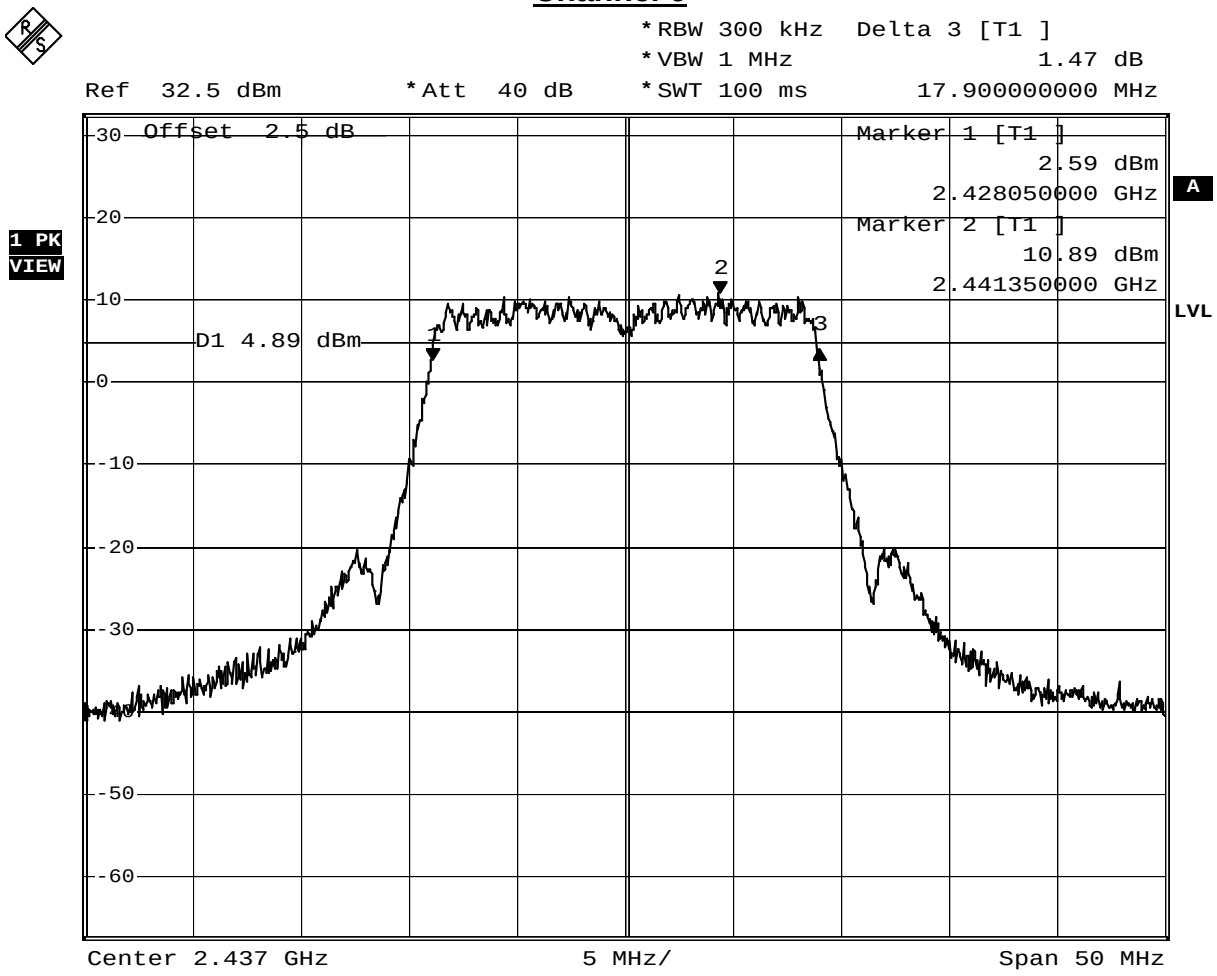
Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2013/01/08	Test Site	SR7

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

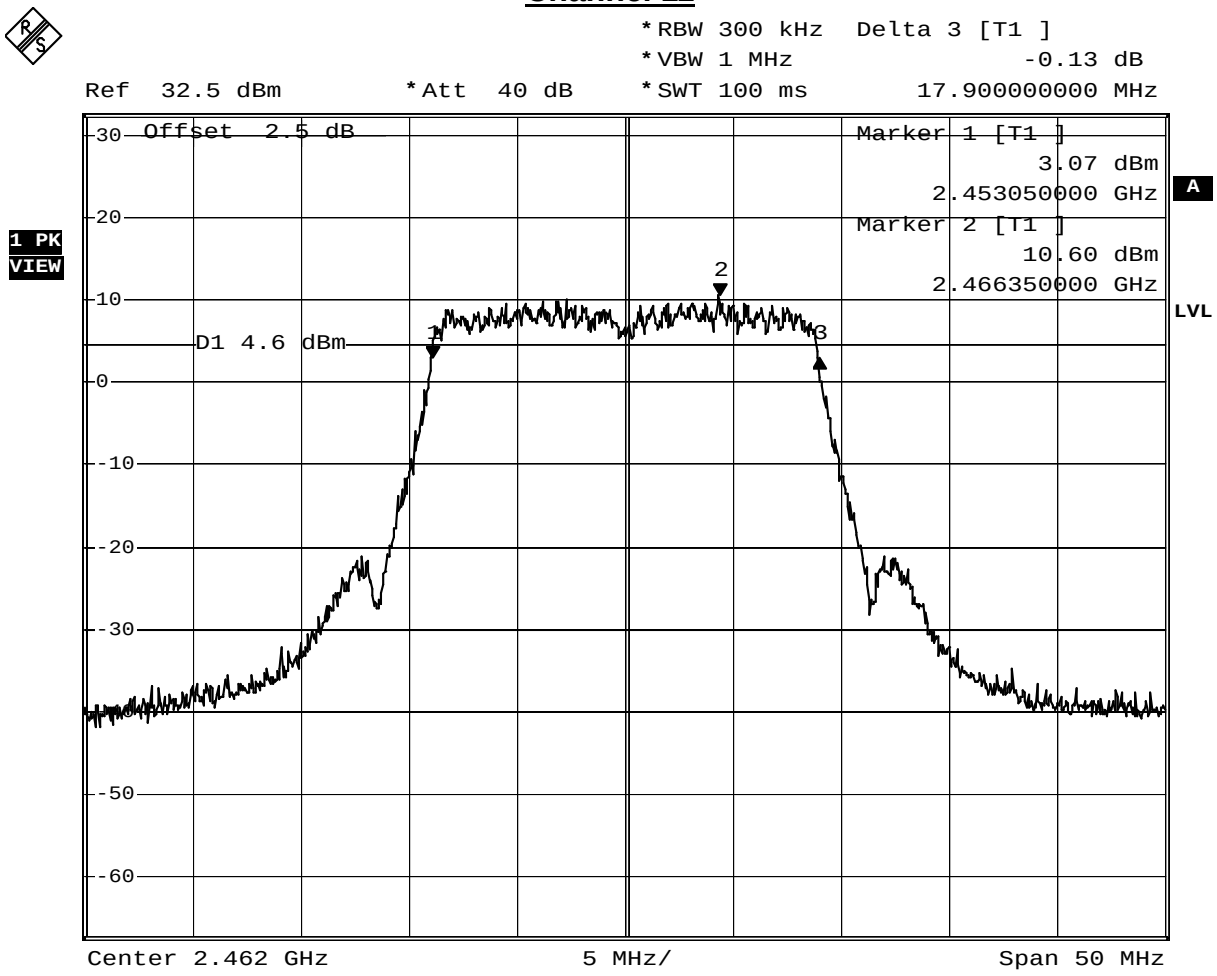
Channel 1



Channel 6


*RBW 300 kHz
Delta 3 [T1]
*VBW 1 MHz
1.47 dB
Ref 32.5 dBm
*Att 40 dB
*SWT 100 ms
17.900000000 MHz
Offset 2.5 dB
Marker 1 [T1]
2.59 dBm
2.428050000 GHz
Marker 2 [T1]
10.89 dBm
2.441350000 GHz
1 PK
VIEW
A
LVL
D1 4.89 dBm
30
20
10
0
-10
-20
-30
-50
-60
Center 2.437 GHz
5 MHz/
Span 50 MHz
Date: 1.JAN.2000 01:36:38

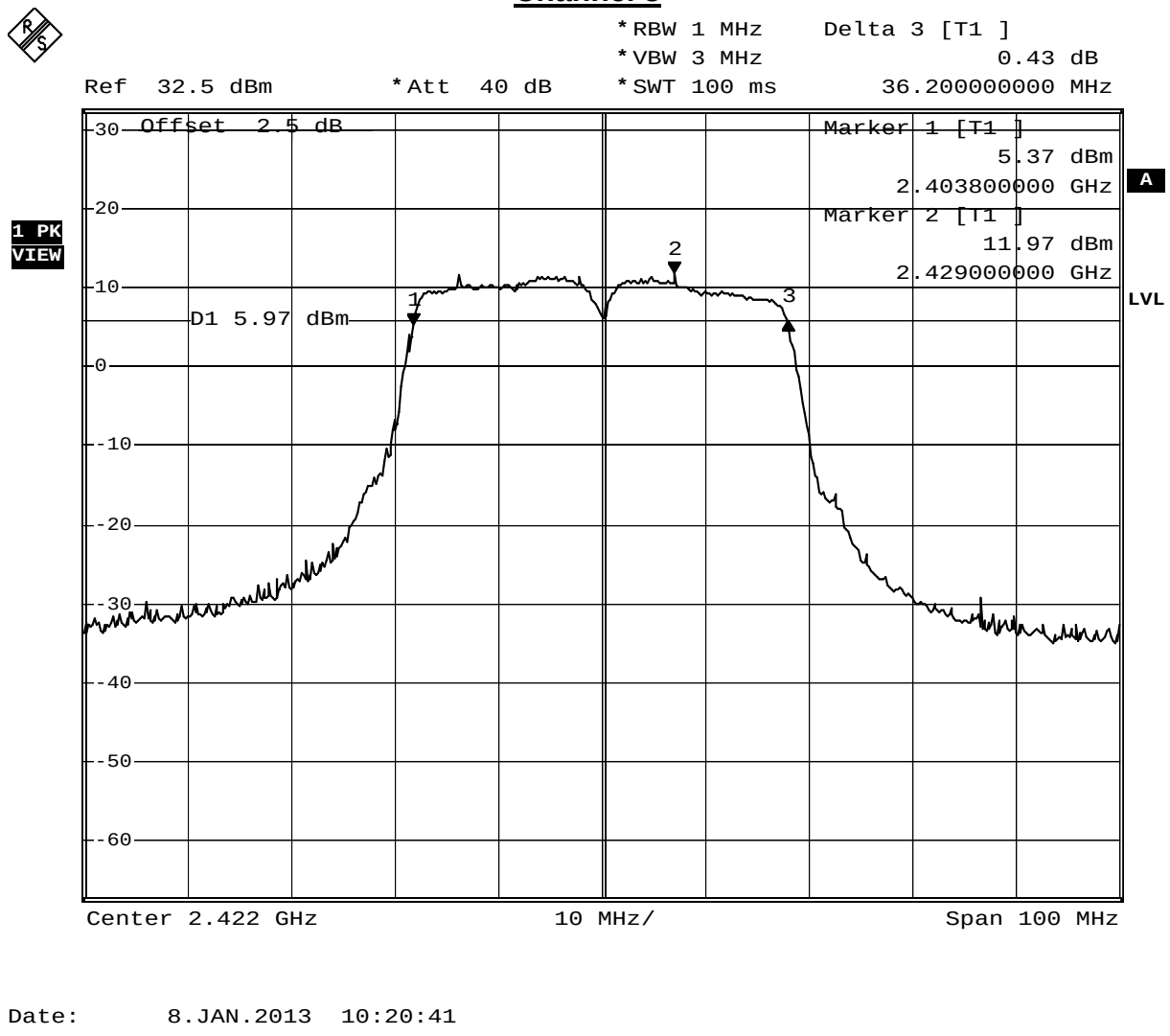
Channel 11


*RBW 300 kHz
Delta 3 [T1]
*VBW 1 MHz
-0.13 dB
Ref 32.5 dBm
*Att 40 dB
*SWT 100 ms
17.900000000 MHz
Offset 2.5 dB
Marker 1 [T1]
3.07 dBm
2.453050000 GHz
Marker 2 [T1]
10.60 dBm
2.466350000 GHz
1 PK
VIEW
A
LVL
D1 4.6 dBm
30
20
10
0
-10
-20
-30
-50
-60
Center 2.462 GHz
5 MHz/
Span 50 MHz
Date: 1.JAN.2000 01:44:23

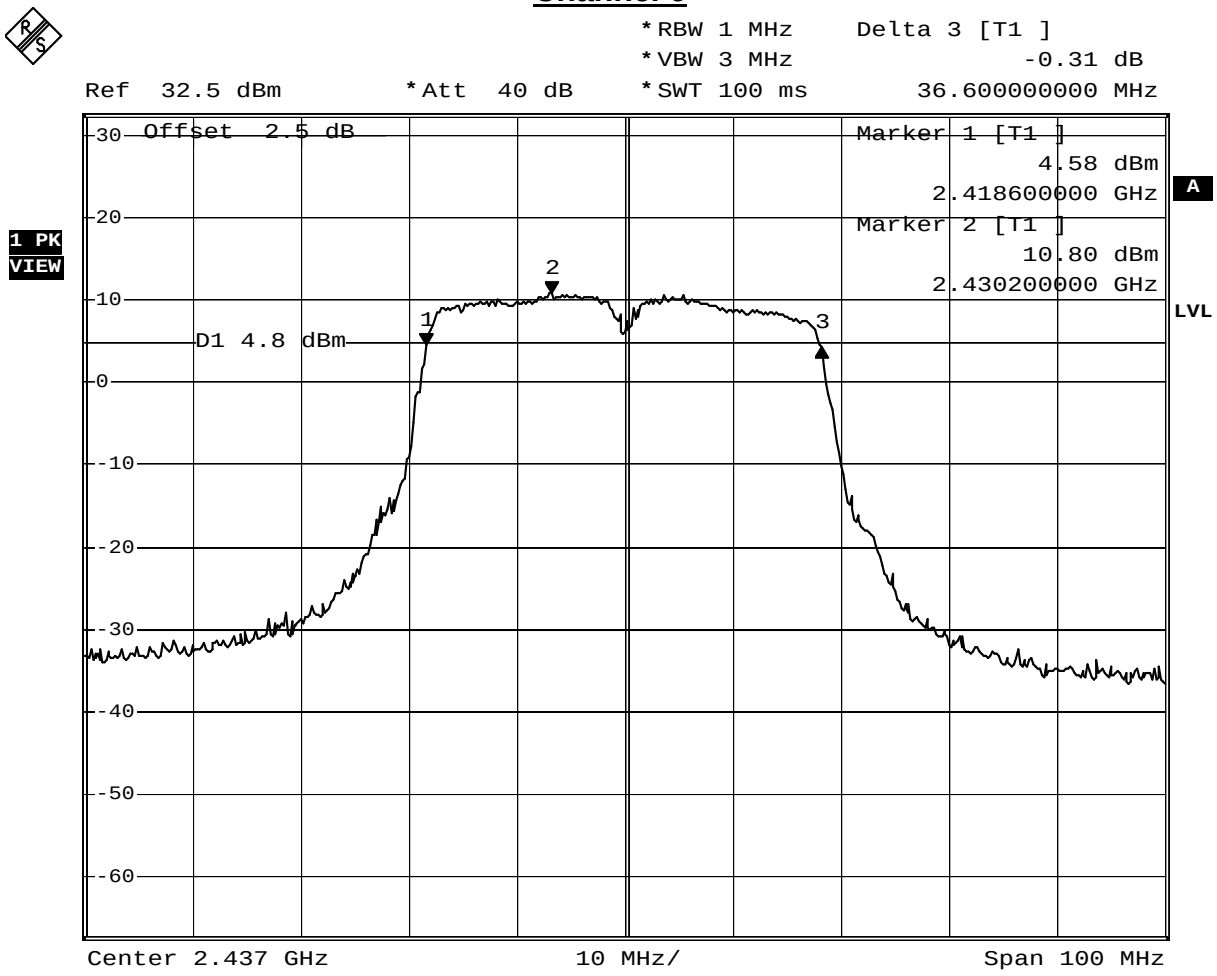
Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2013/01/08	Test Site	SR7

IEEE 802.11n (40MHz)(ANT 0)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
3	2422	36.20	≧0.5	Pass
6	2437	36.60	≧0.5	Pass
9	2452	36.60	≧0.5	Pass

Channel 3

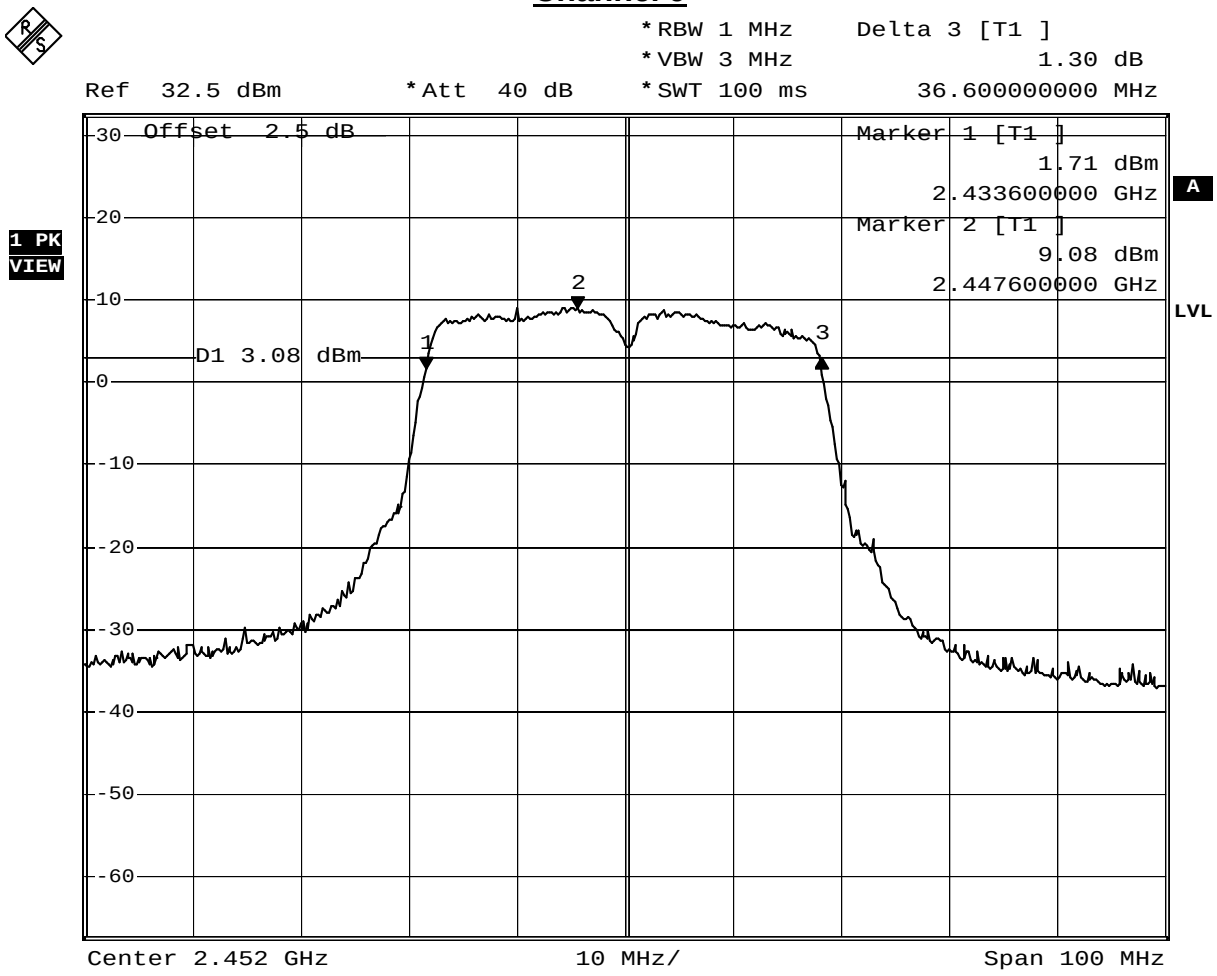


Channel 6



Date: 8.JAN.2013 10:30:42

Channel 9

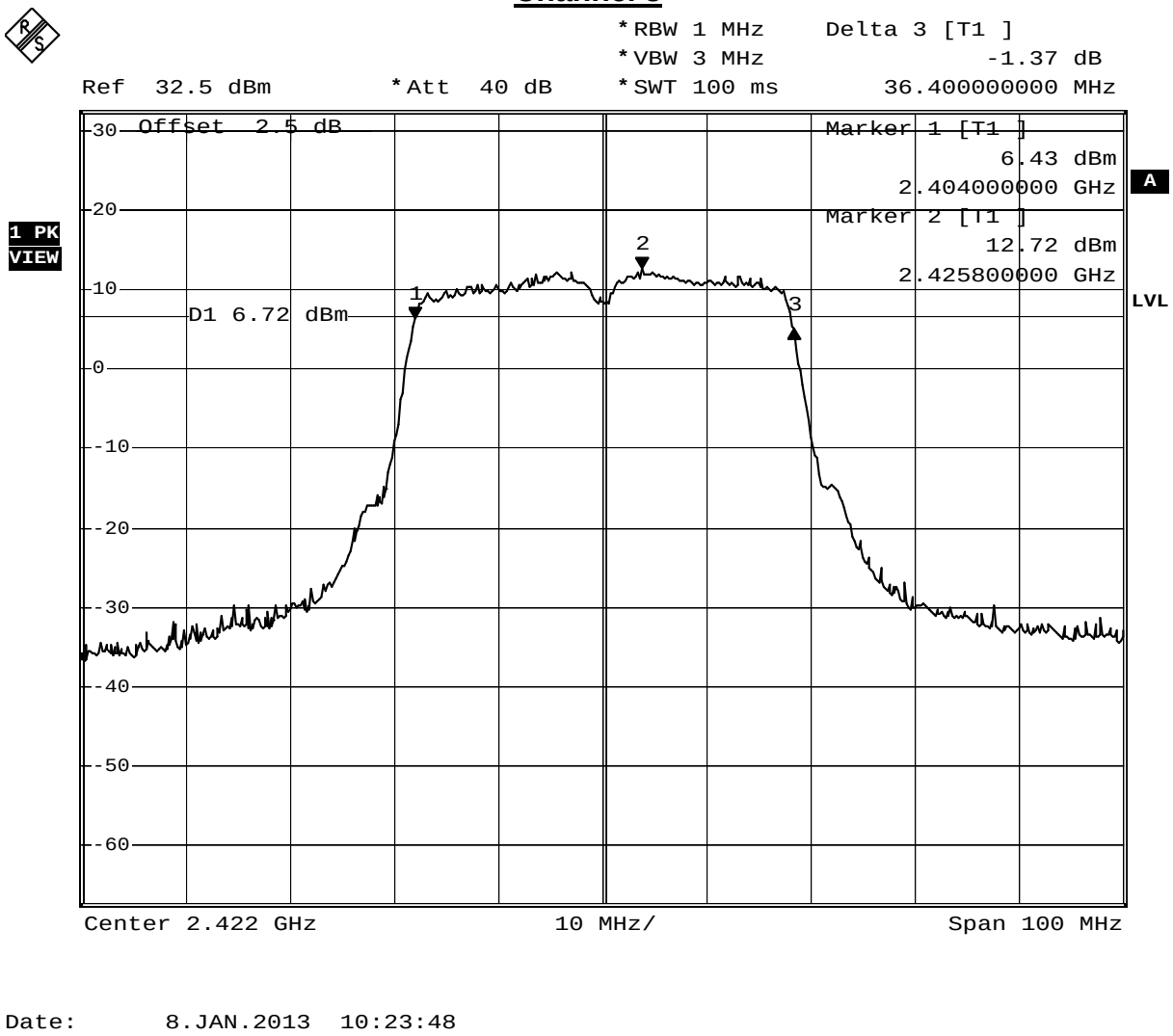


Date: 8.JAN.2013 10:41:49

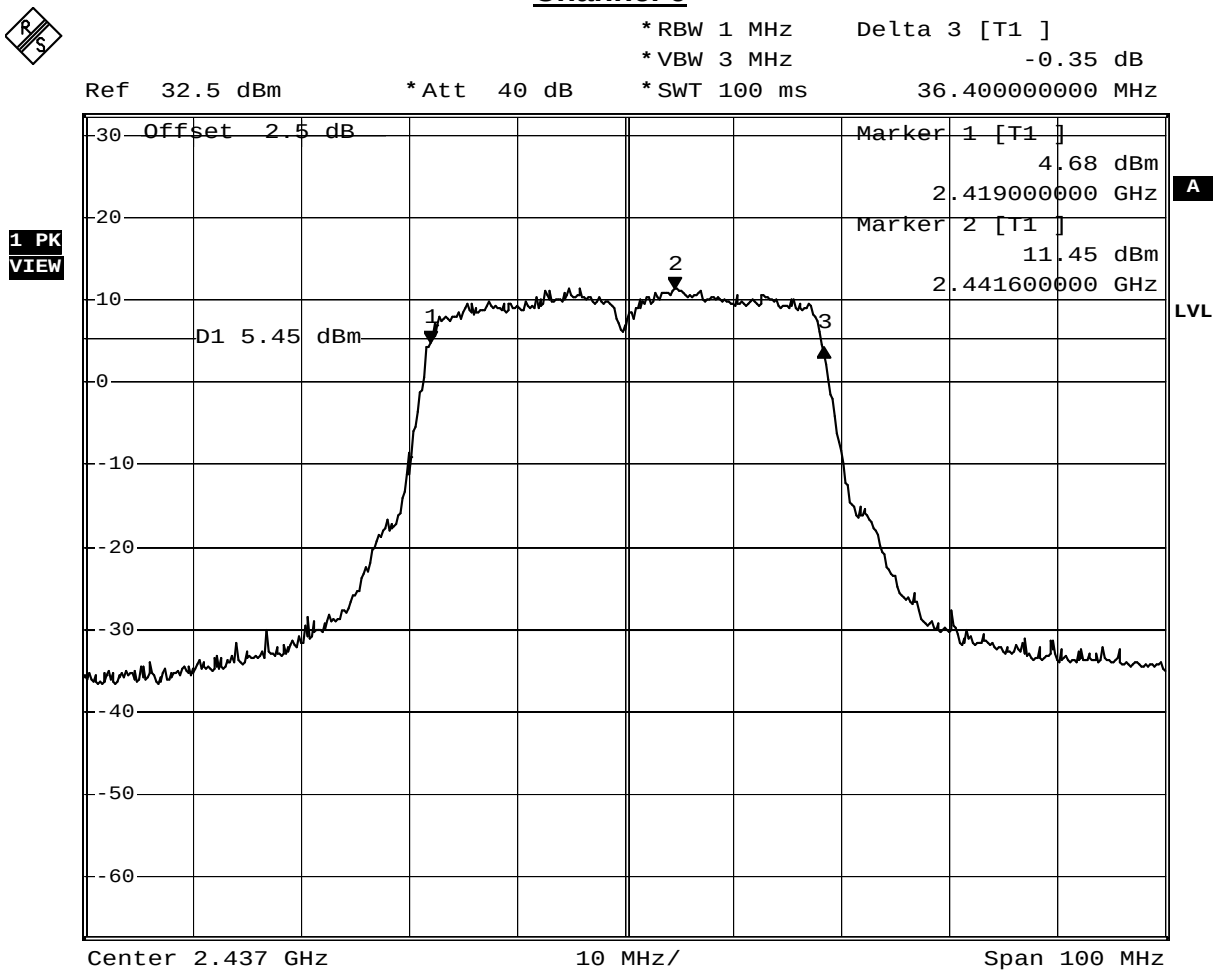
Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2013/01/08	Test Site	SR7

IEEE 802.11n (40MHz)(ANT 1)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
3	2422	36.40	≧0.5	Pass
6	2437	36.40	≧0.5	Pass
9	2452	36.60	≧0.5	Pass

Channel 3

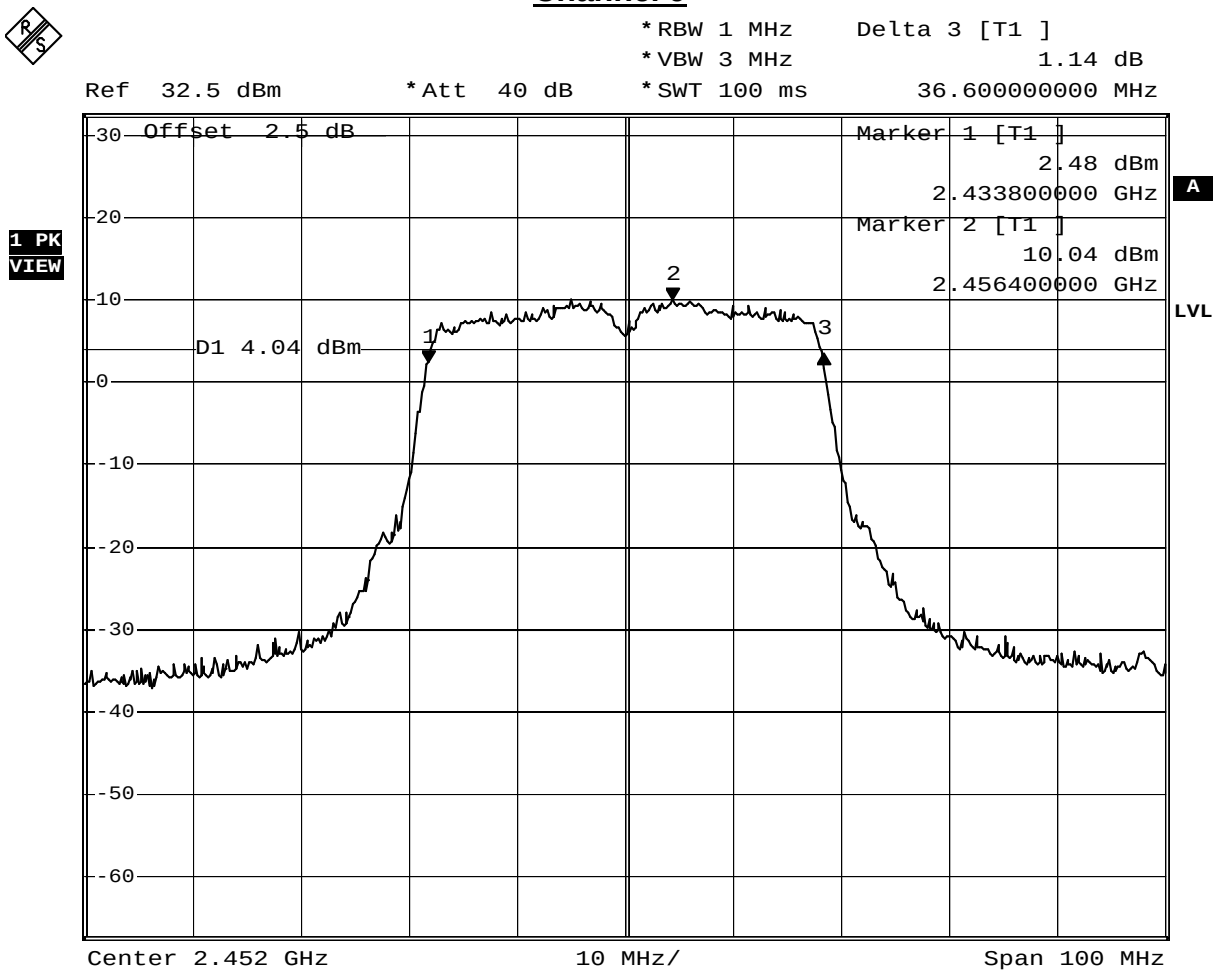


Channel 6



Date: 8.JAN.2013 10:28:32

Channel 9

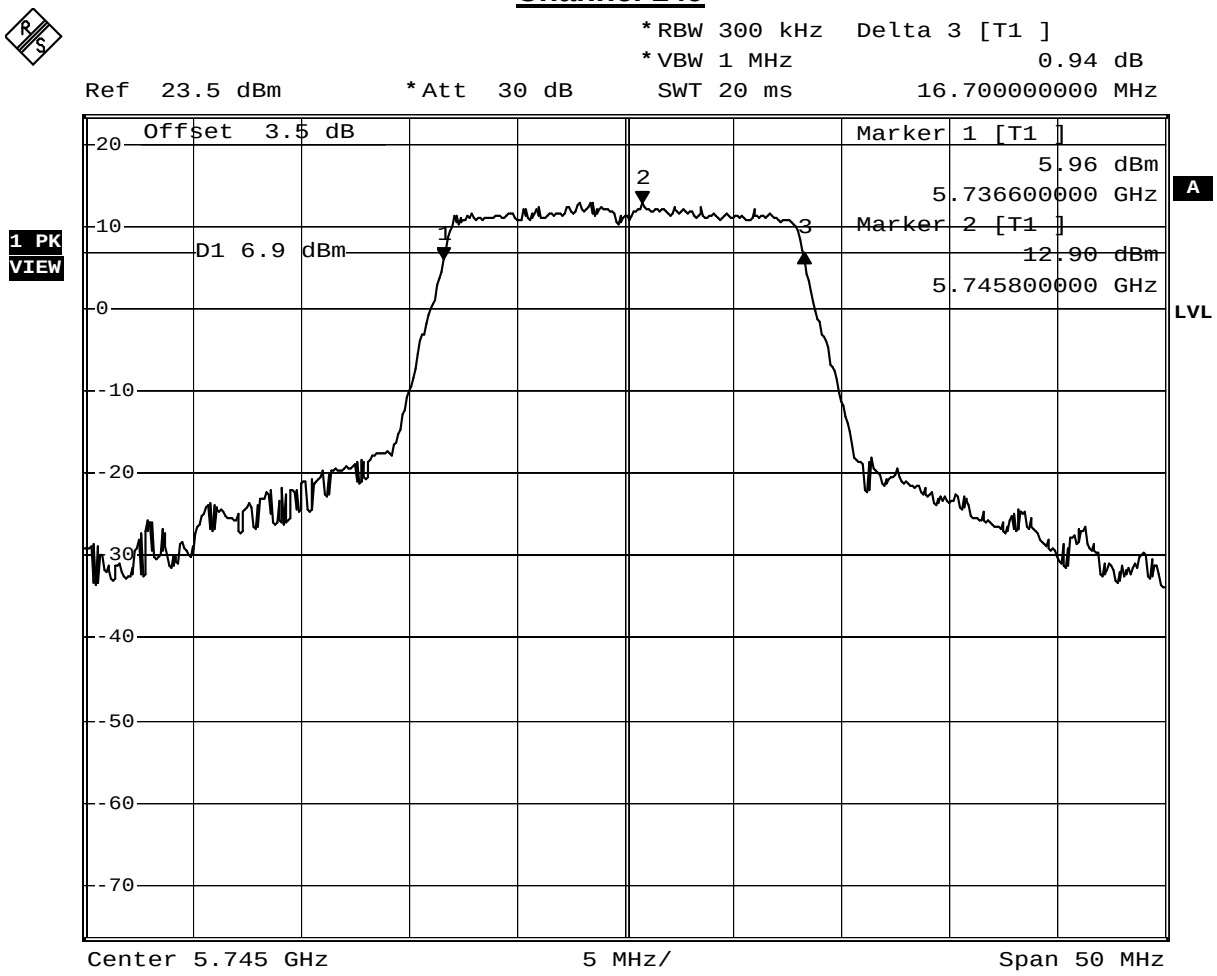


Date: 8.JAN.2013 10:39:52

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2013/01/09	Test Site	SR7

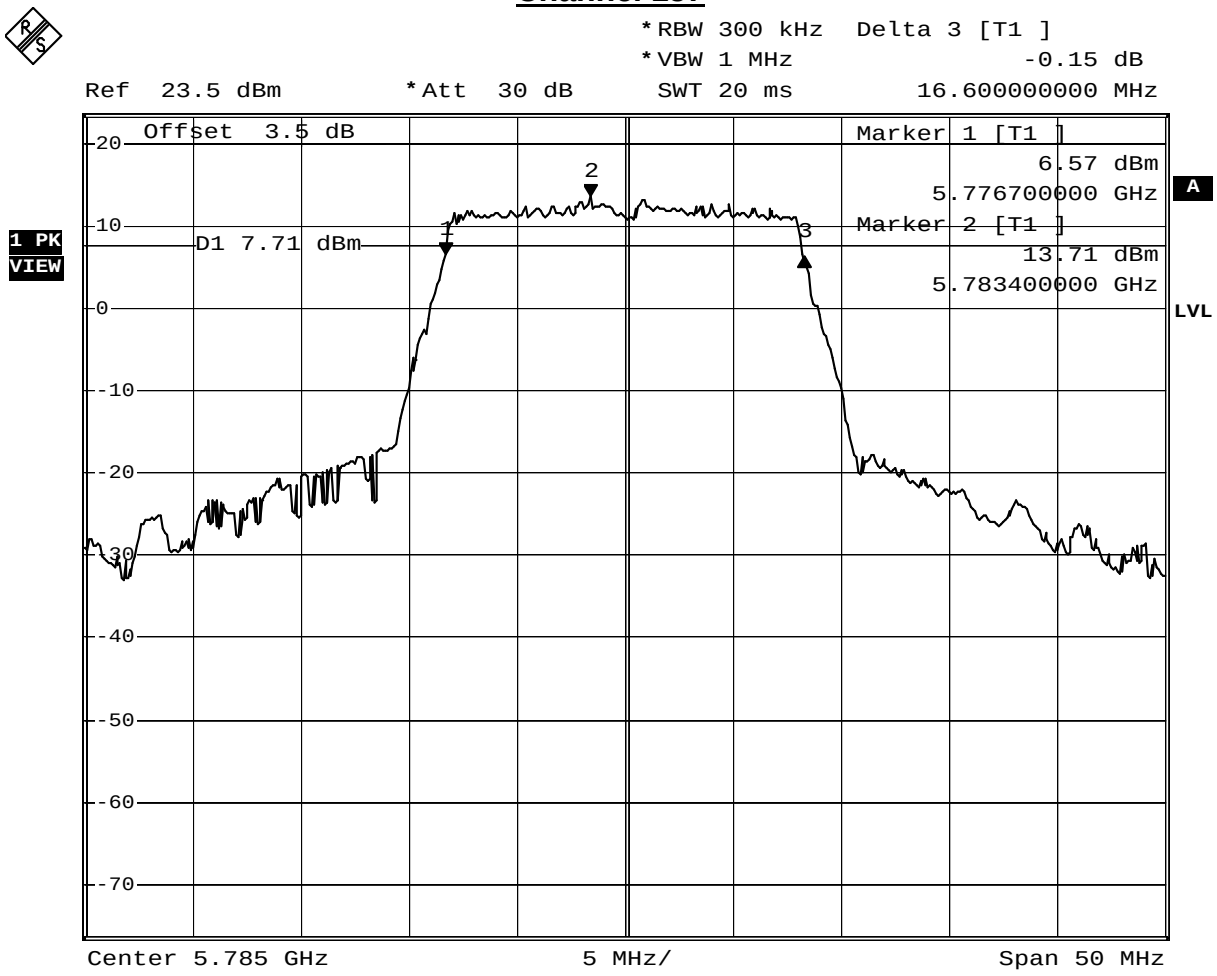
802.11 a				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
149	5745	16.70	≧0.5	Pass
157	5785	16.60	≧0.5	Pass
165	5825	16.60	≧0.5	Pass

Channel 149



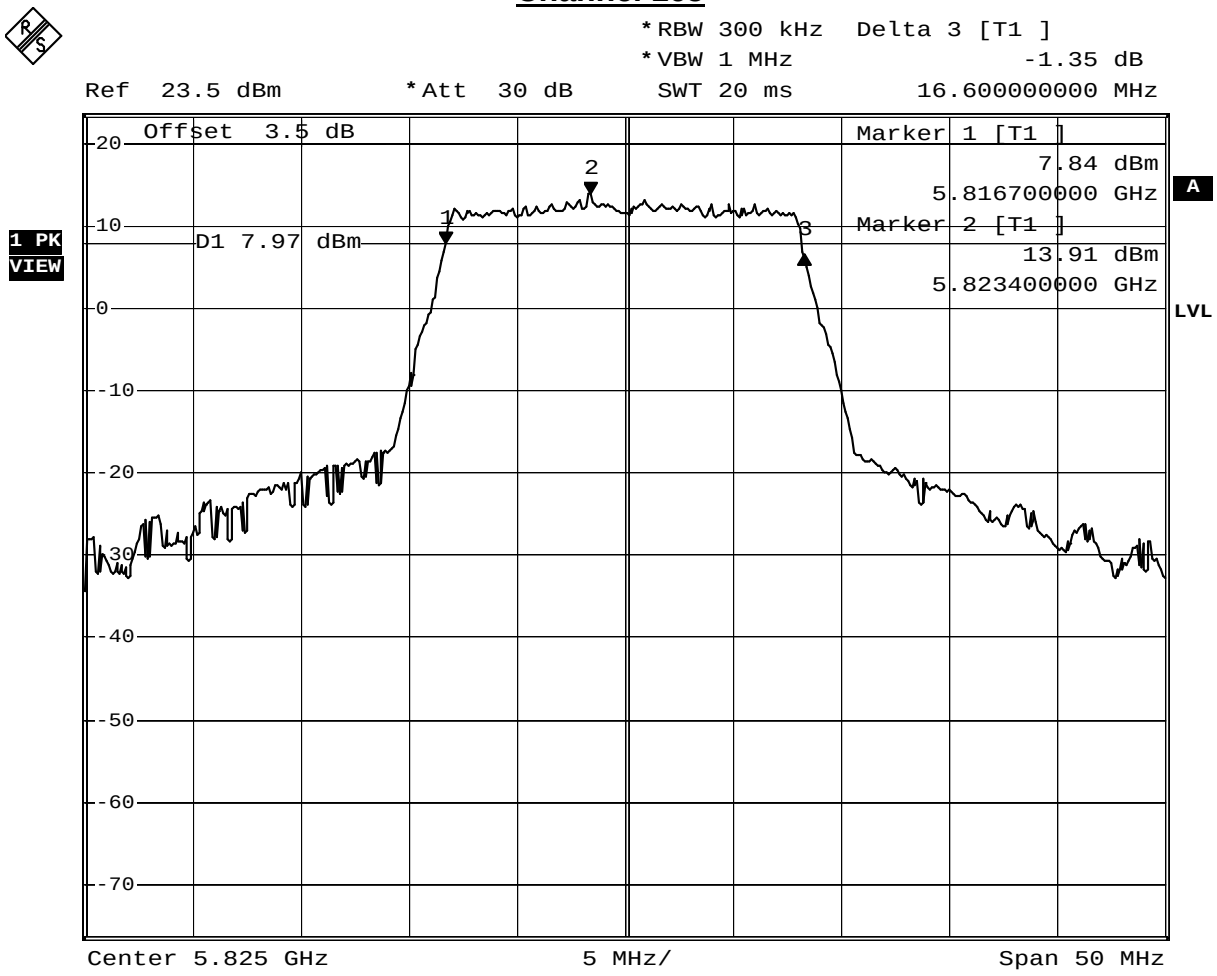
Comment: A:\2
Date: 9.JAN.2013 13:26:37

Channel 157



Comment: A:\2
Date: 9.JAN.2013 13:29:57

Channel 165

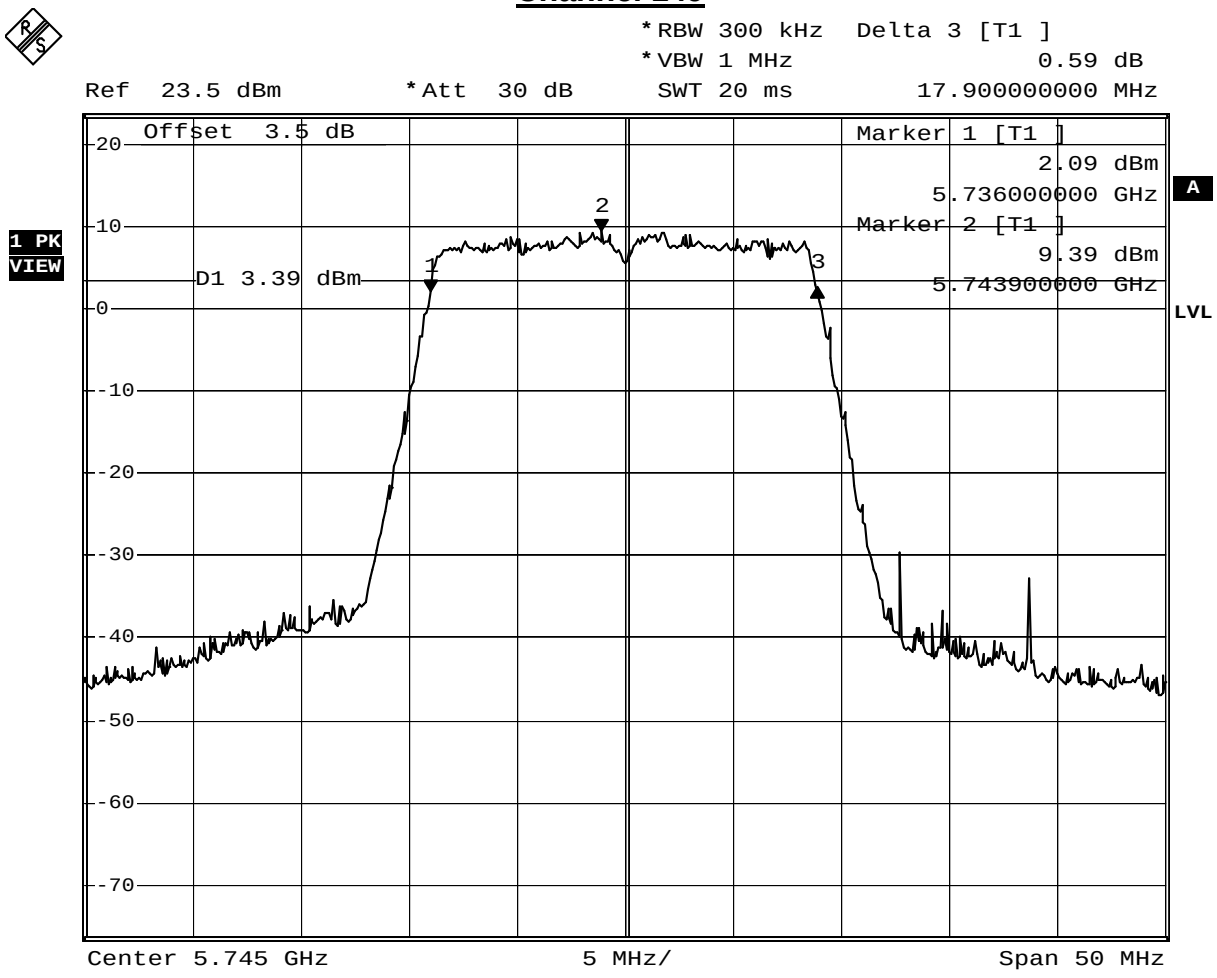


Comment: A:\2
Date: 9.JAN.2013 13:31:30

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2013/01/09	Test Site	SR7

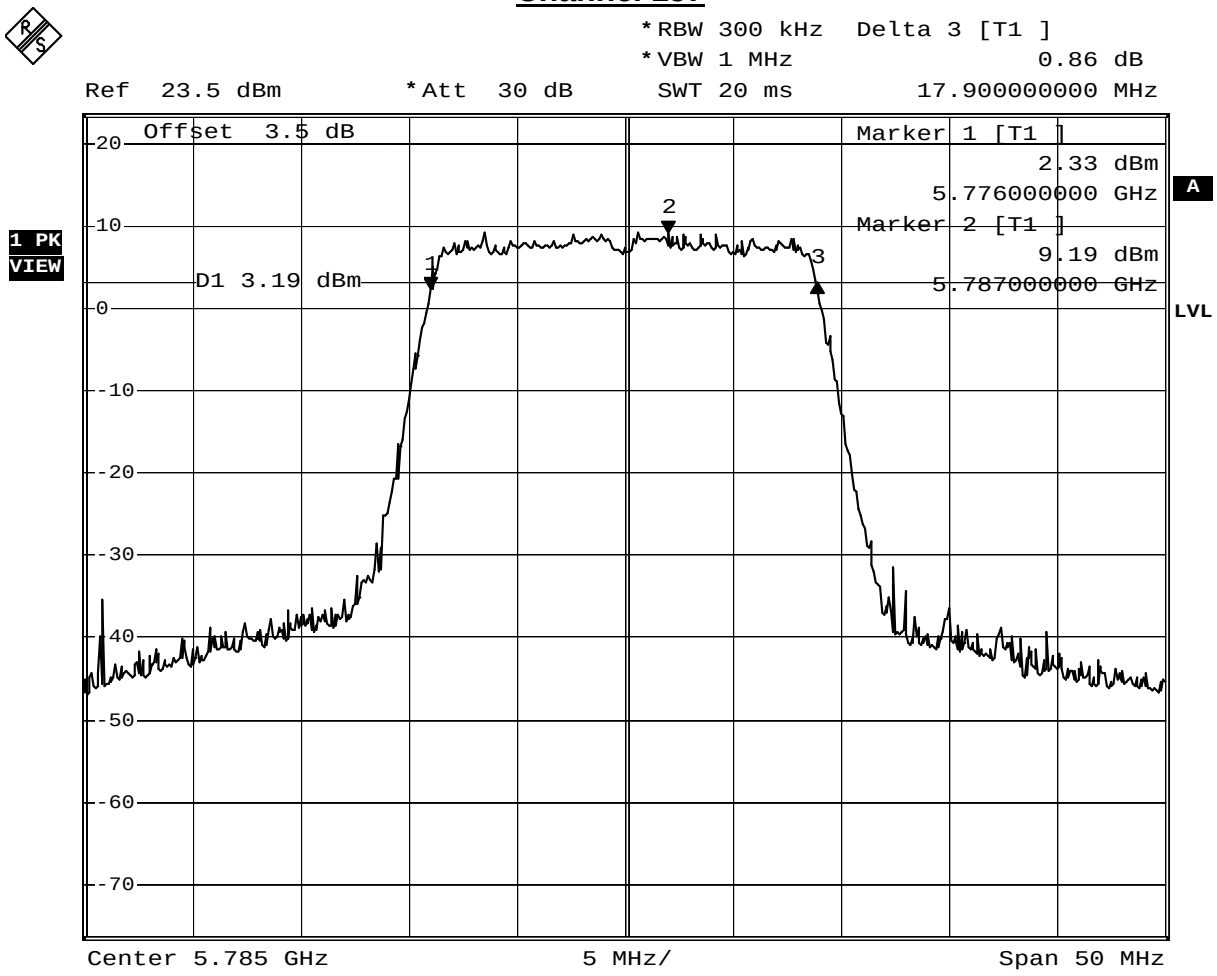
IEEE 802.11n (20MHz)(ANT 0)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
149	5745	17.90	≧0.5	Pass
157	5785	17.90	≧0.5	Pass
165	5825	17.80	≧0.5	Pass

Channel 149



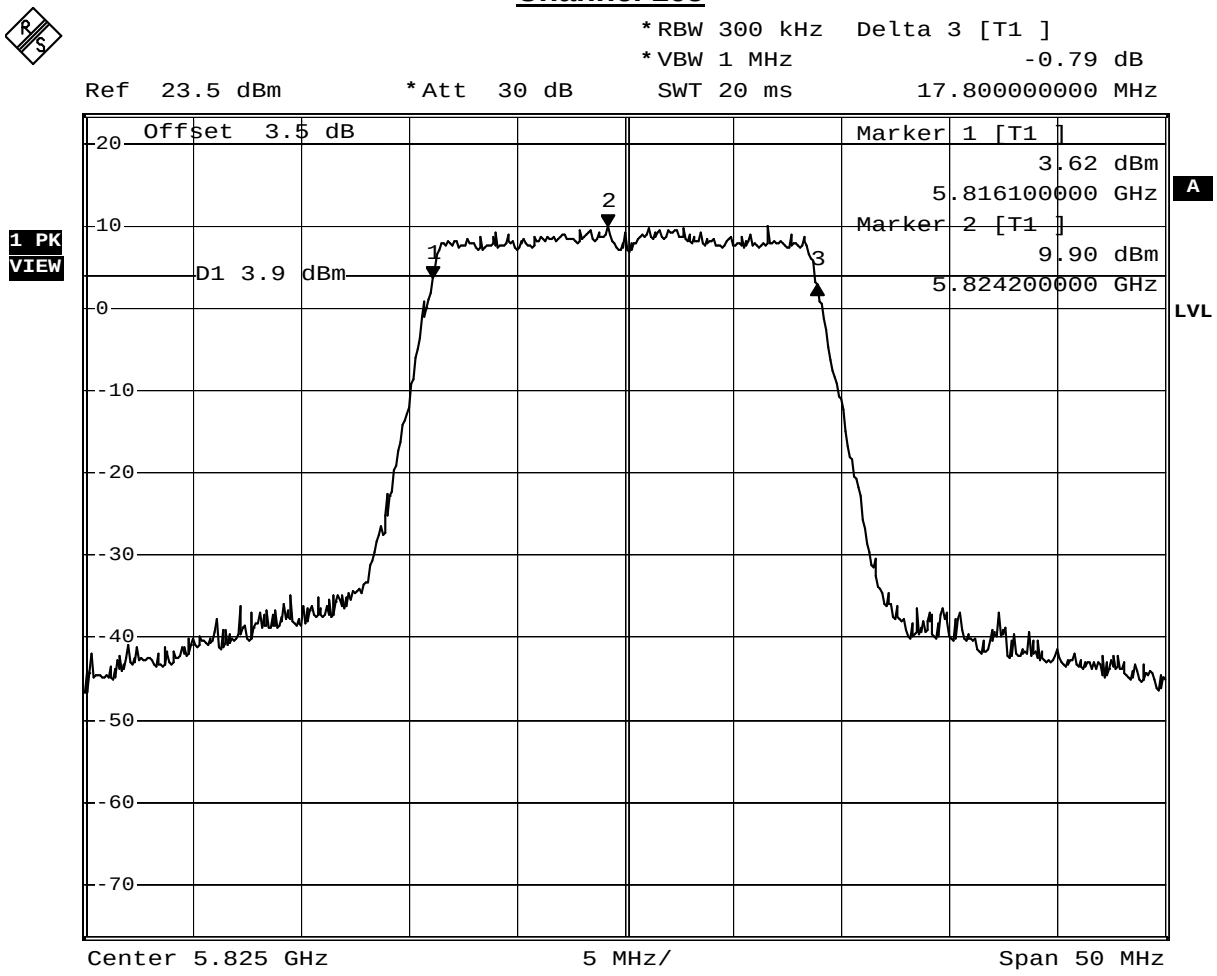
Comment: A:\2
Date: 9.JAN.2013 13:56:54

Channel 157



Comment: A:\2
Date: 9.JAN.2013 13:52:41

Channel 165

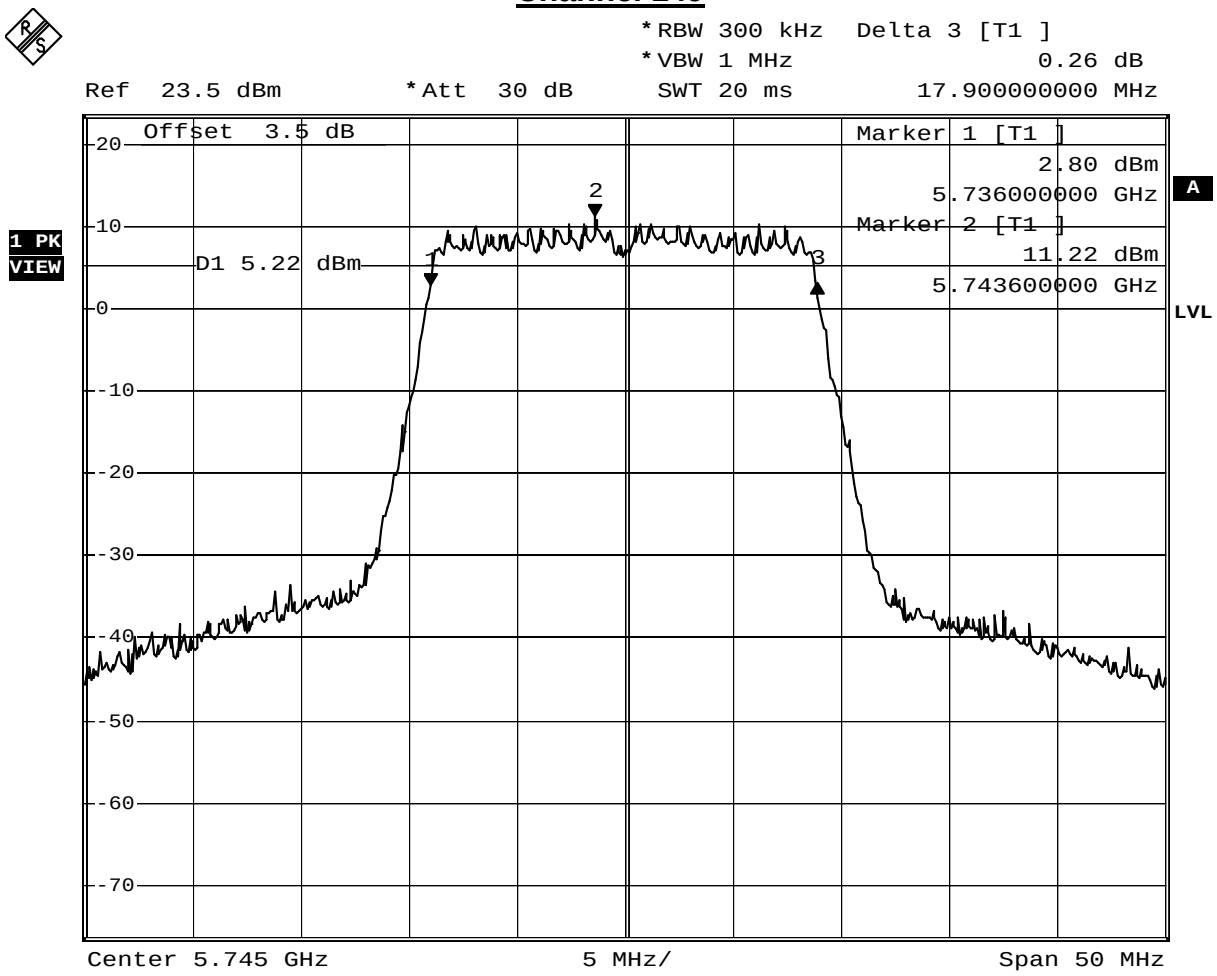


Comment: A:\2
Date: 9.JAN.2013 13:35:00

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2013/01/09	Test Site	SR7

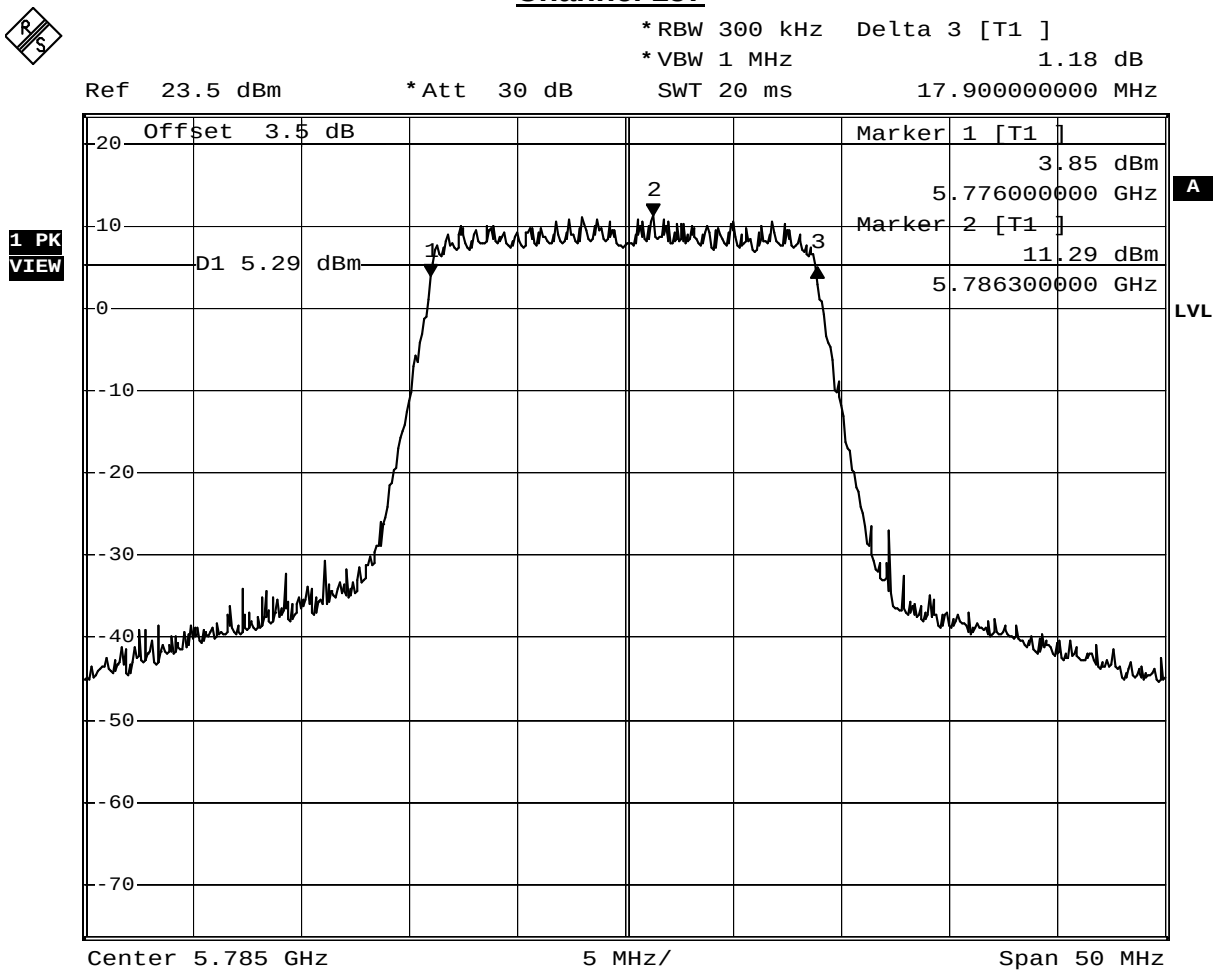
IEEE 802.11n (20MHz)(ANT 1)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
149	5745	17.90	≧0.5	Pass
157	5785	17.90	≧0.5	Pass
165	5825	17.80	≧0.5	Pass

Channel 149



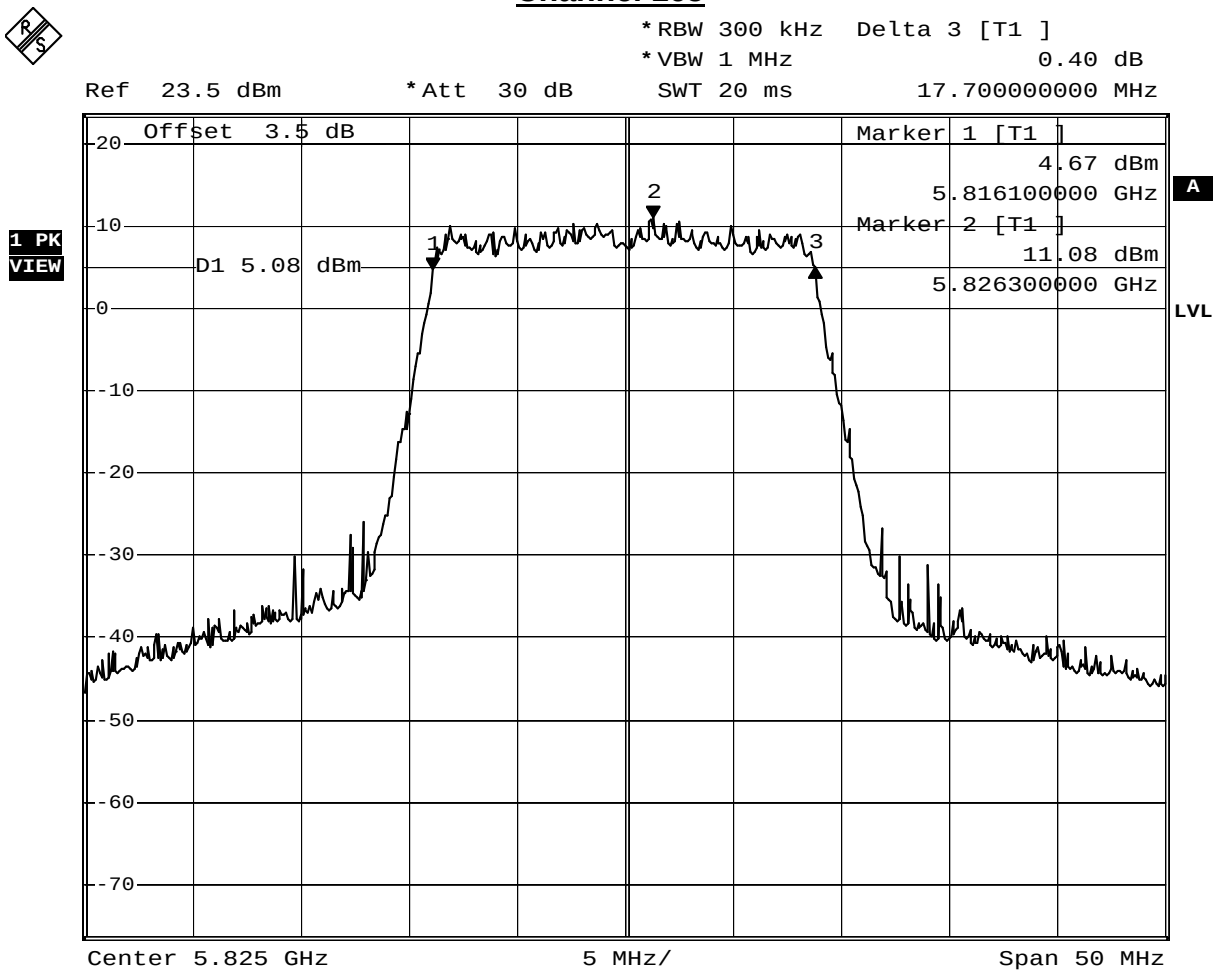
Comment: A:\2
Date: 9.JAN.2013 13:58:30

Channel 157



Comment: A:\2
Date: 9.JAN.2013 13:50:44

Channel 165

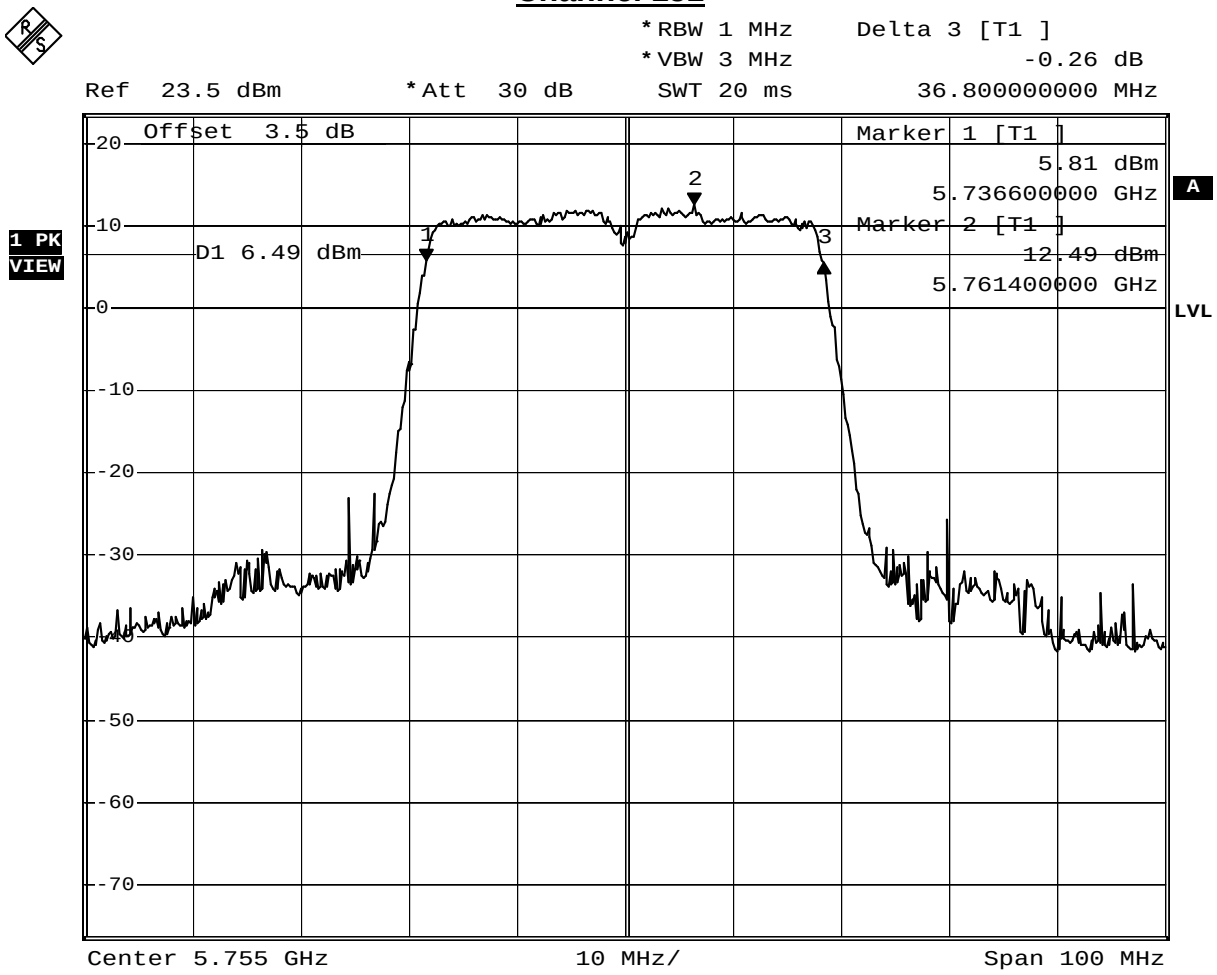


Comment: A:\2
Date: 9.JAN.2013 13:44:34

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2013/01/09	Test Site	SR7

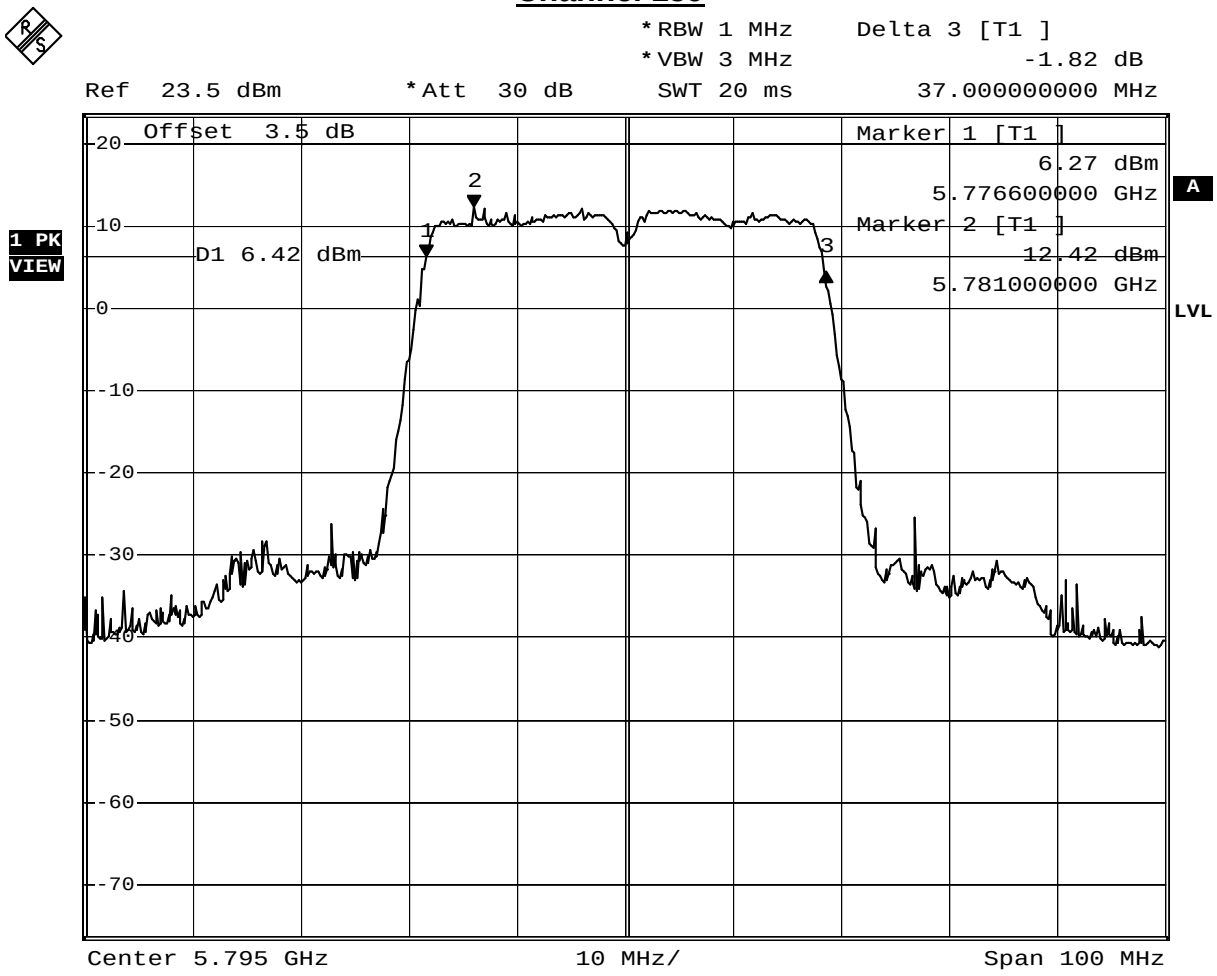
IEEE 802.11n (40MHz)(ANT 0)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
151	5755	36.80	≧0.5	Pass
159	5795	37.00	≧0.5	Pass

Channel 151



Comment: A:\2
Date: 9.JAN.2013 14:08:43

Channel 159

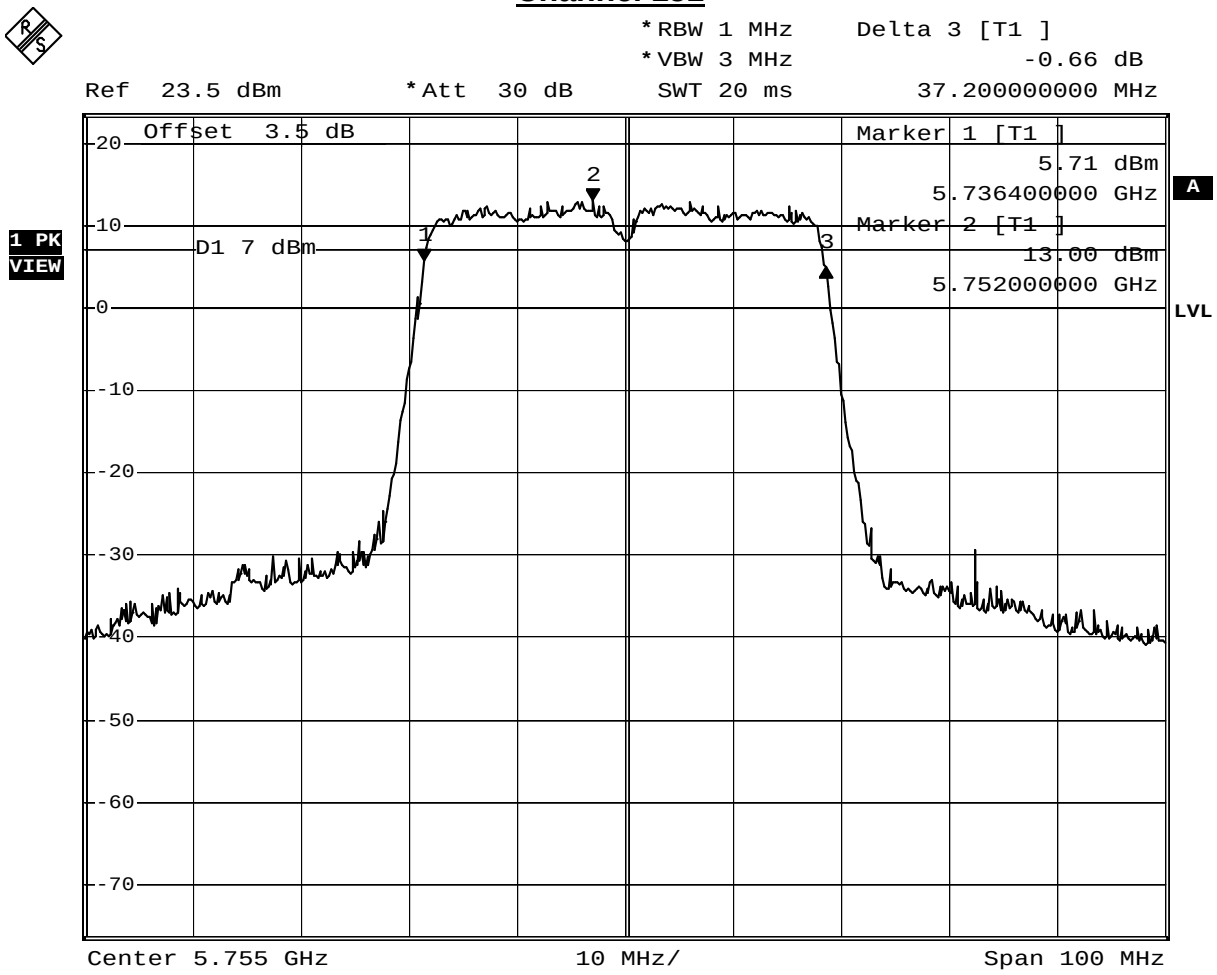


Comment: A:\2
Date: 9.JAN.2013 14:15:28

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2013/01/09	Test Site	SR7

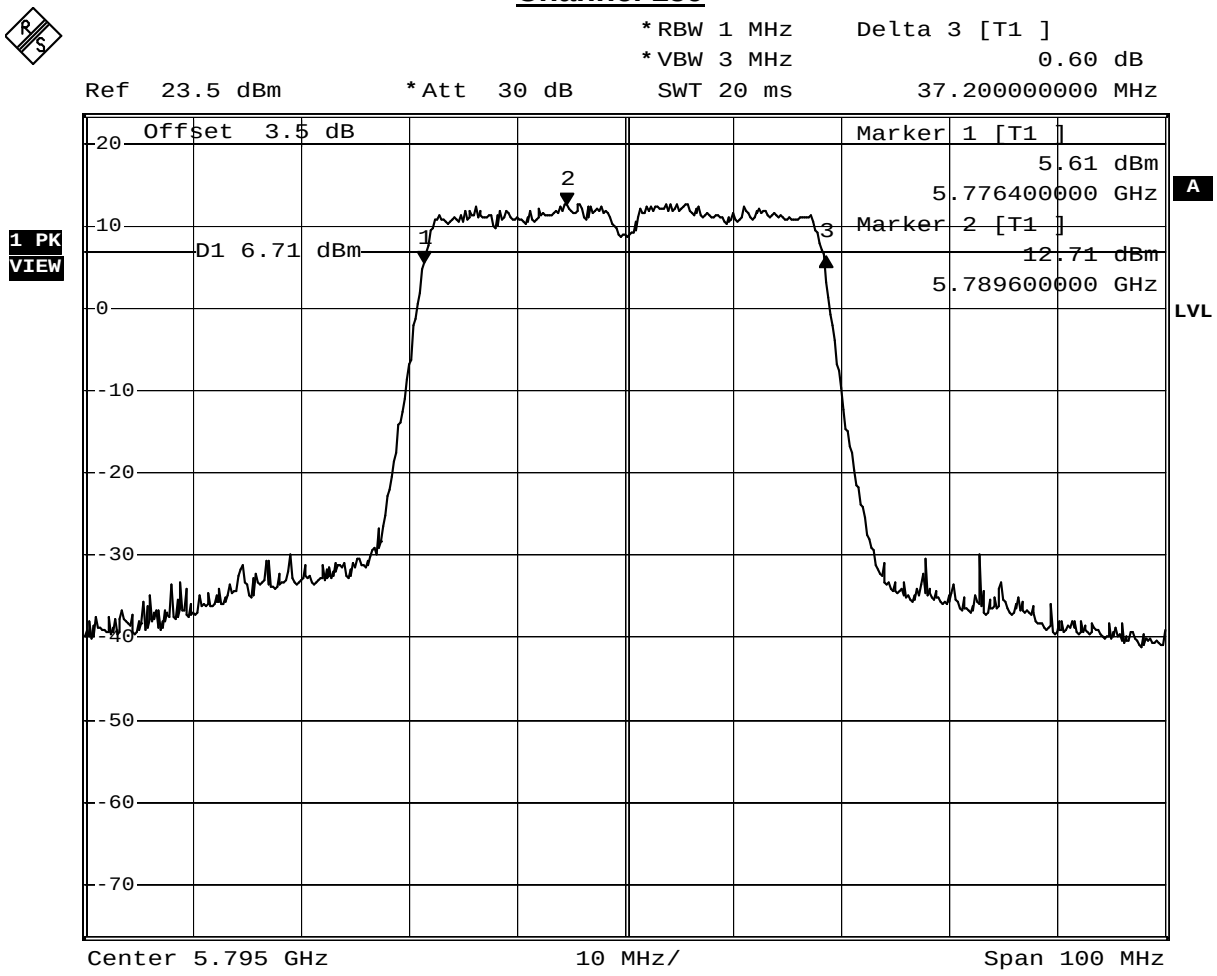
IEEE 802.11n (40MHz)(ANT 1)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
151	5755	37.20	≧0.5	Pass
159	5795	37.20	≧0.5	Pass

Channel 151



Comment: A:\2
Date: 9.JAN.2013 14:06:24

Channel 159

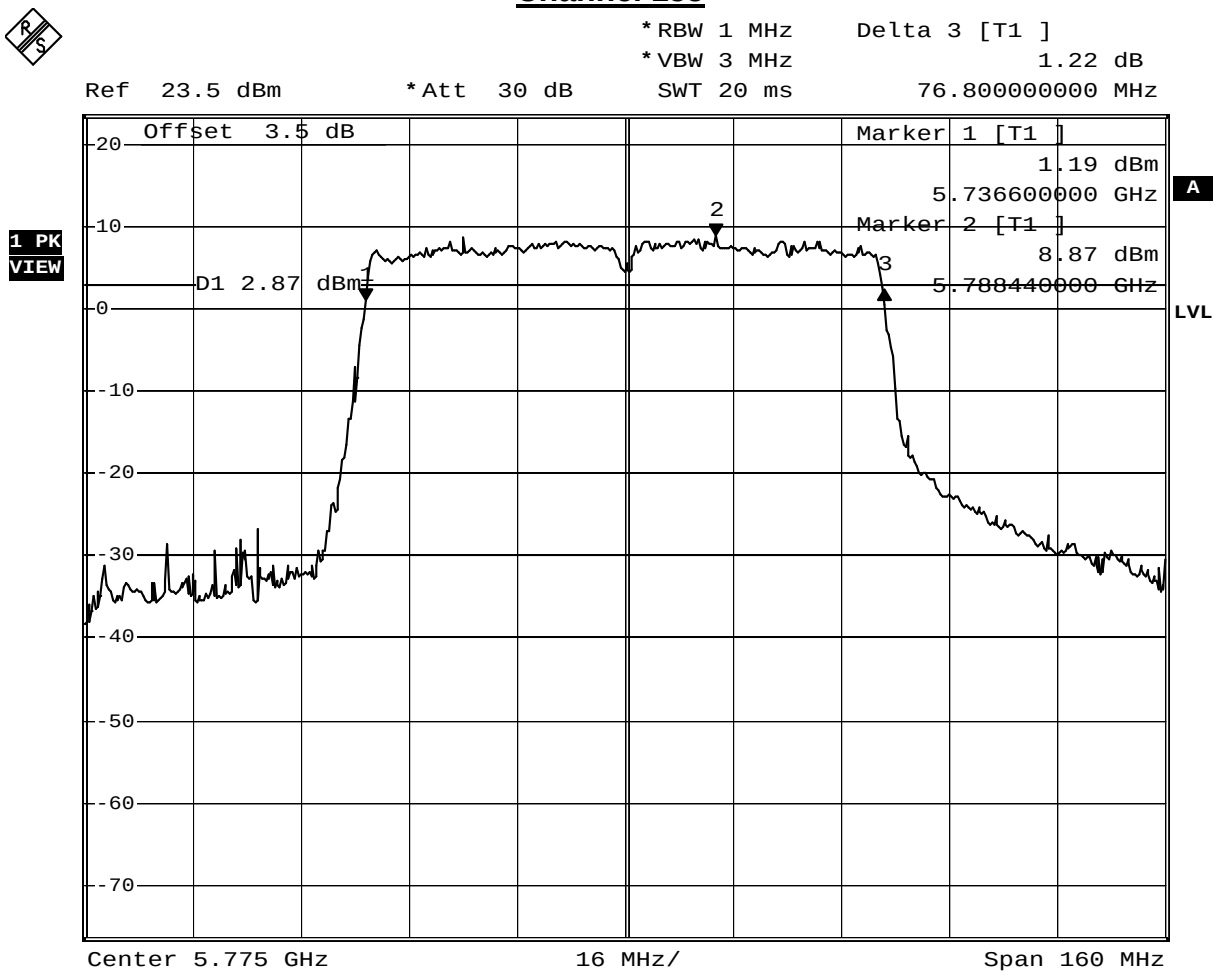


Comment: A:\2
Date: 9.JAN.2013 14:13:58

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2013/01/09	Test Site	SR7

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

Channel 155

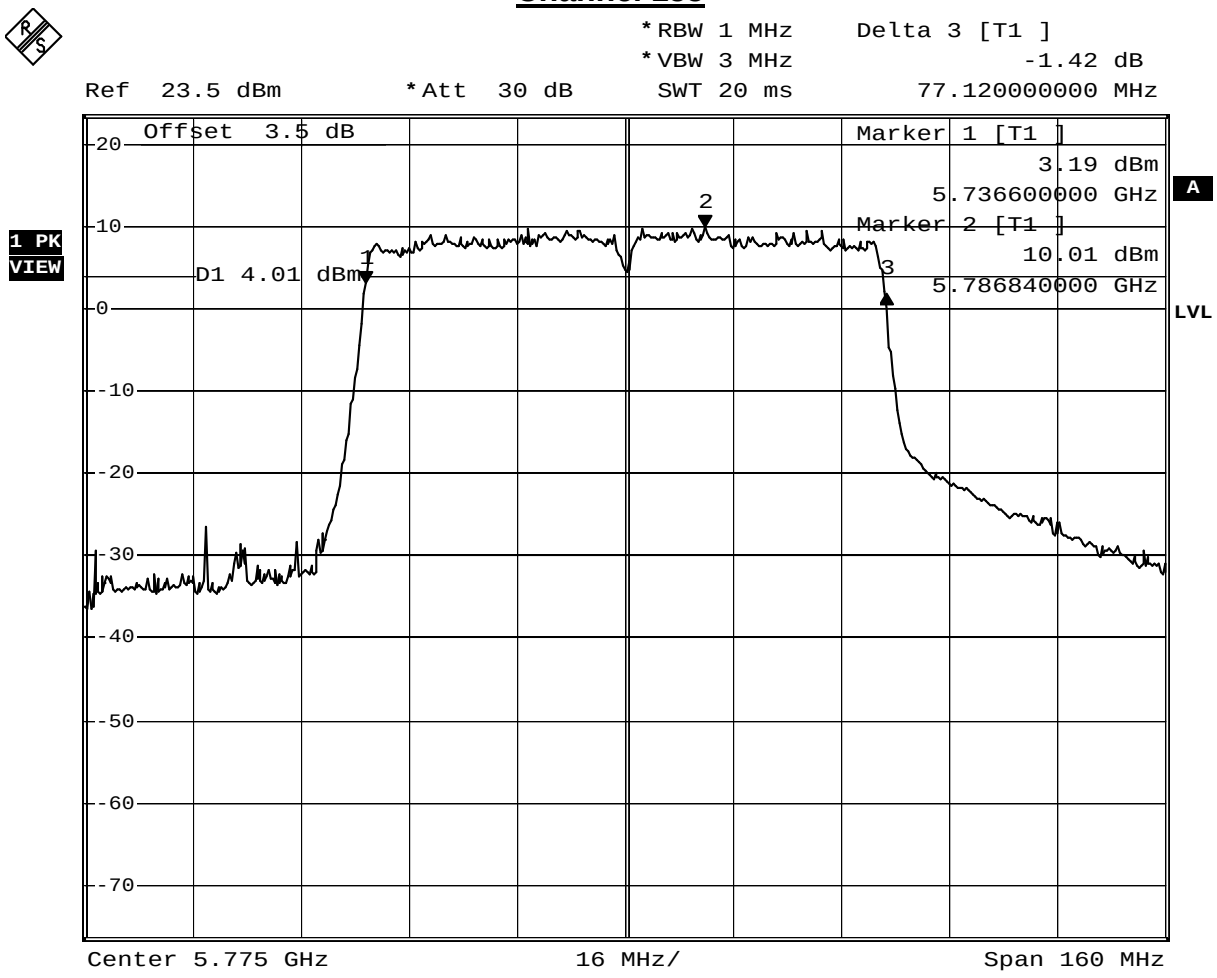


Comment: A:\2
Date: 9.JAN.2013 14:25:32

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Occupied Bandwidth		
Test Mode	Transmit		
Date of Test	2013/01/09	Test Site	SR7

IEEE 802.11ac (80MHz)(ANT 1)				
Channel No.	Frequency (MHz)	Measurement Level (MHz)	Required Limit (MHz)	Result
155	5775	77.12	≧0.5	Pass

Channel 155



Comment: A:\2
Date: 9.JAN.2013 14:24:12

8. Power Density

8.1. Test Equipment

The following test equipment is used during the test:

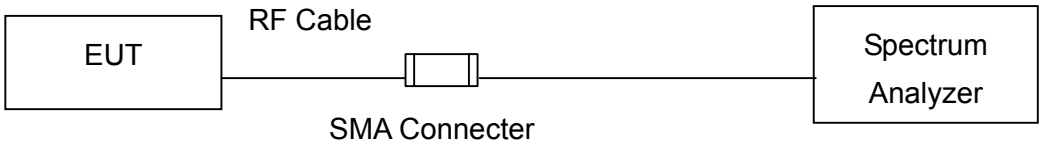
Power Density / SR7

Instrument	Manufacturer	Model No.	Serial No	Next Cal. Date
Spectrum Analyzer	R&S	FSP	100561	2014/02/03

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

8.2. Test Setup

IEEE 802.11 b / g / n (20M / 40M) MODE



8.3. Limits

The peak power spectral density conducted from the intentional radiated to the antenna shall not be greater than +8dBm in any 3kHz band during any time interval of continuous transmission.

8.4. Test Procedures

The EUT was setup according to ANSI C63.4: 2009; tested according to DTS test procedure of Jan. 2012 KDB558074 for compliance to FCC 47CFR 15.247 requirements.
Set RBW= 100 kHz, Set VBW= 300 kHz, Sweep time=Auto, Set detector=Peak detector.
Scale the observed power level to an equivalent value in 3 kHz by adjusting (reducing) the measured power by a bandwidth correction factor (BWCF) where BWCF = 10log (3 kHz/100 kHz = -15.2 dB).

8.5. Test Specification

According to FCC Part 15 Subpart C Paragraph 15.247: 2011

8.6. Uncertainty

The measurement uncertainty is defined as ±1.27dB.

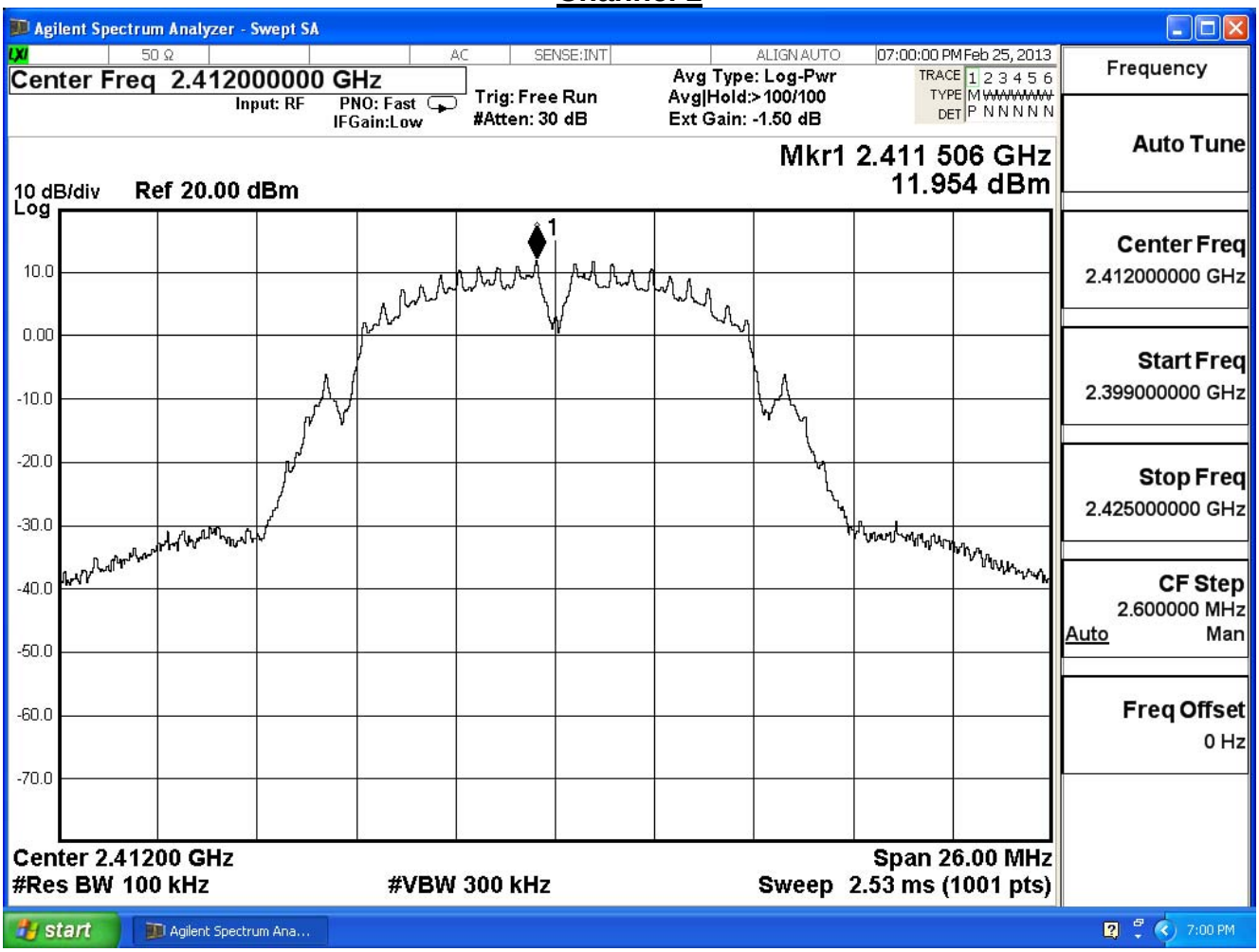
8.7. Test Result

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2013/02/25	Test Site	SR7

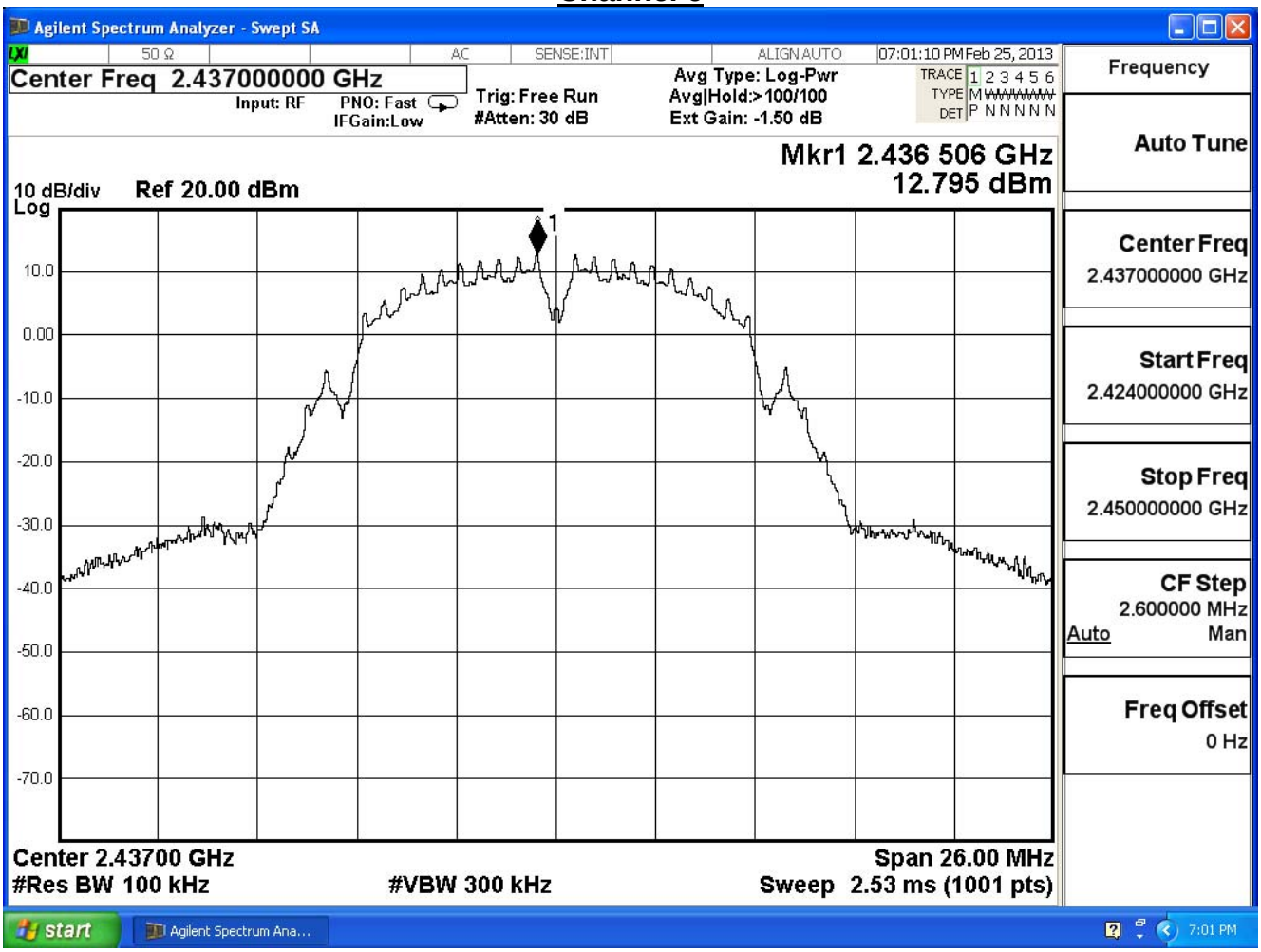
IEEE 802.11b					
Channel No.	Frequency (MHz)	Reading Level(dBm)	Measure Level(dBm)	Limit (dBm)	Result
1	2412	11.954	-3.246	≦8	Pass
6	2437	12.795	-2.405	≦8	Pass
11	2462	11.188	-4.012	≦8	Pass

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

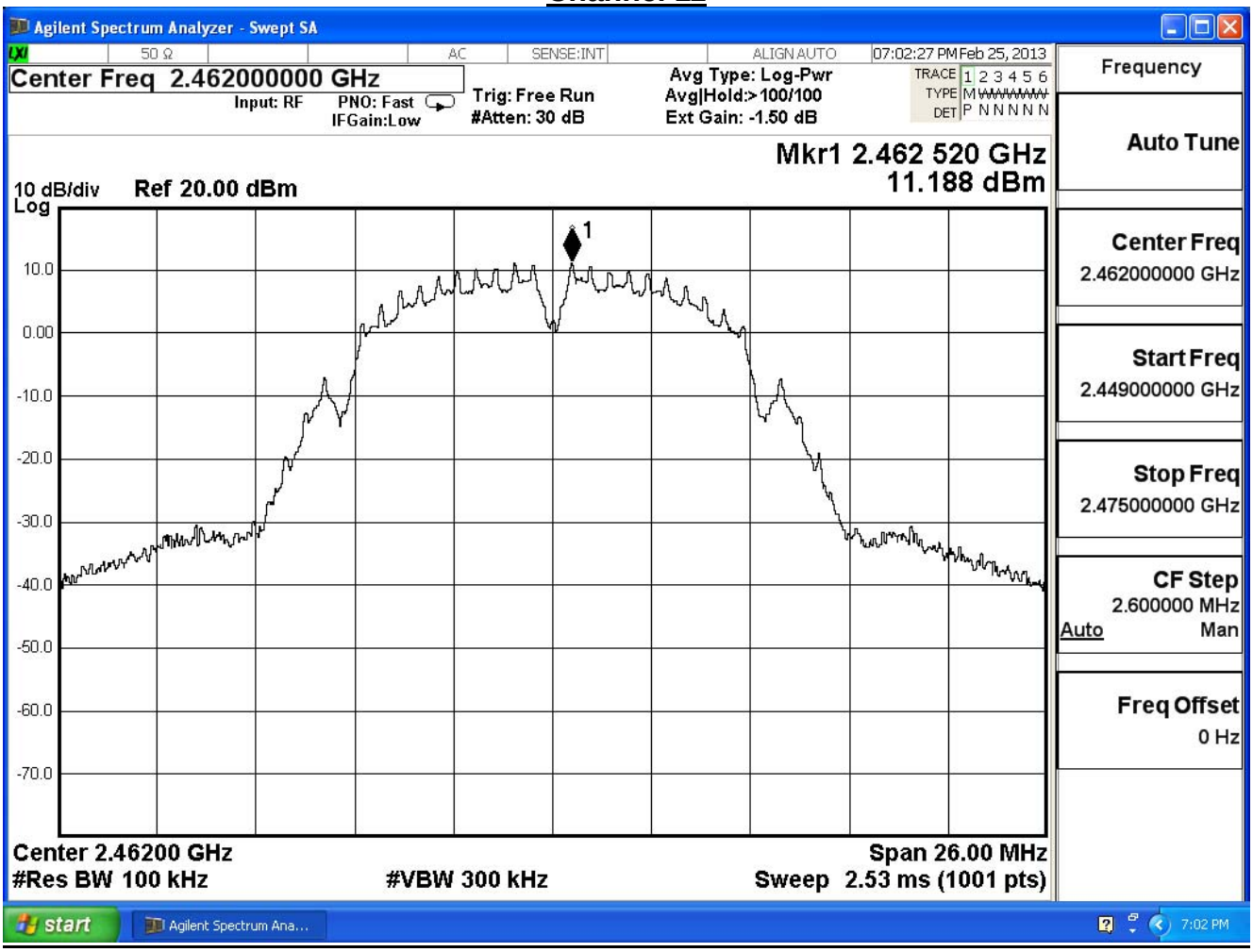
Channel 1



Channel 6


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:01:10 PM Feb 25, 2013
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: -1.50 dB
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Mkr1 2.436 506 GHz
12.795 dBm
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 2.43700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 26.00 MHz
Sweep 2.53 ms (1001 pts)
Frequency
Auto Tune
Center Freq
2.437000000 GHz
Start Freq
2.424000000 GHz
Stop Freq
2.450000000 GHz
CF Step
2.600000 MHz
Auto
Man
Freq Offset
0 Hz
start
Agilent Spectrum Ana...
7:01 PM

Channel 11

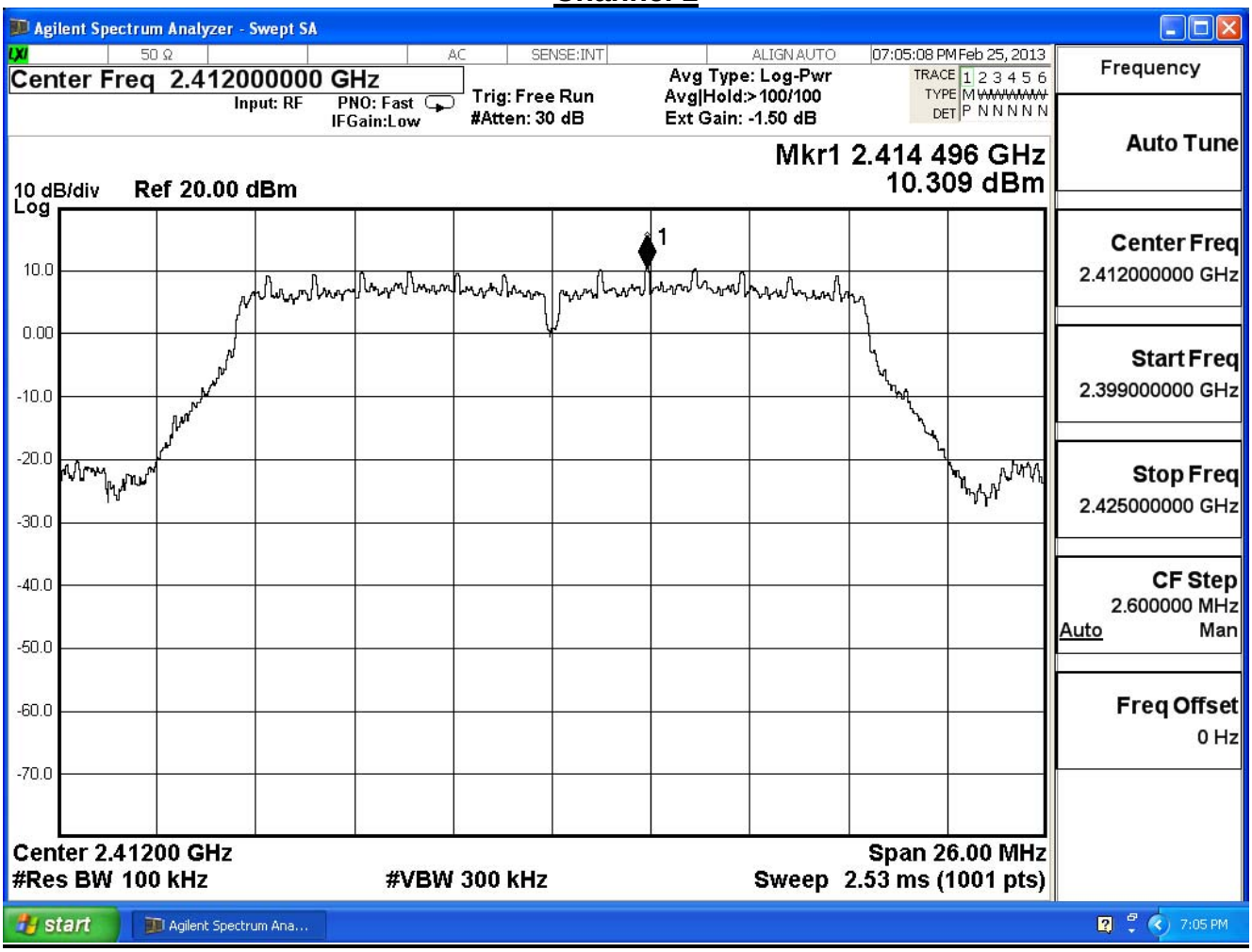

Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:02:27 PM Feb 25, 2013
Center Freq 2.462000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -1.50 dB
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Mkr1 2.462 520 GHz
11.188 dBm
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 2.46200 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 26.00 MHz
Sweep 2.53 ms (1001 pts)
Frequency
Auto Tune
Center Freq
2.462000000 GHz
Start Freq
2.449000000 GHz
Stop Freq
2.475000000 GHz
CF Step
2.600000 MHz
Auto
Man
Freq Offset
0 Hz
start
Agilent Spectrum Ana...
7:02 PM

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2013/02/25	Test Site	SR7

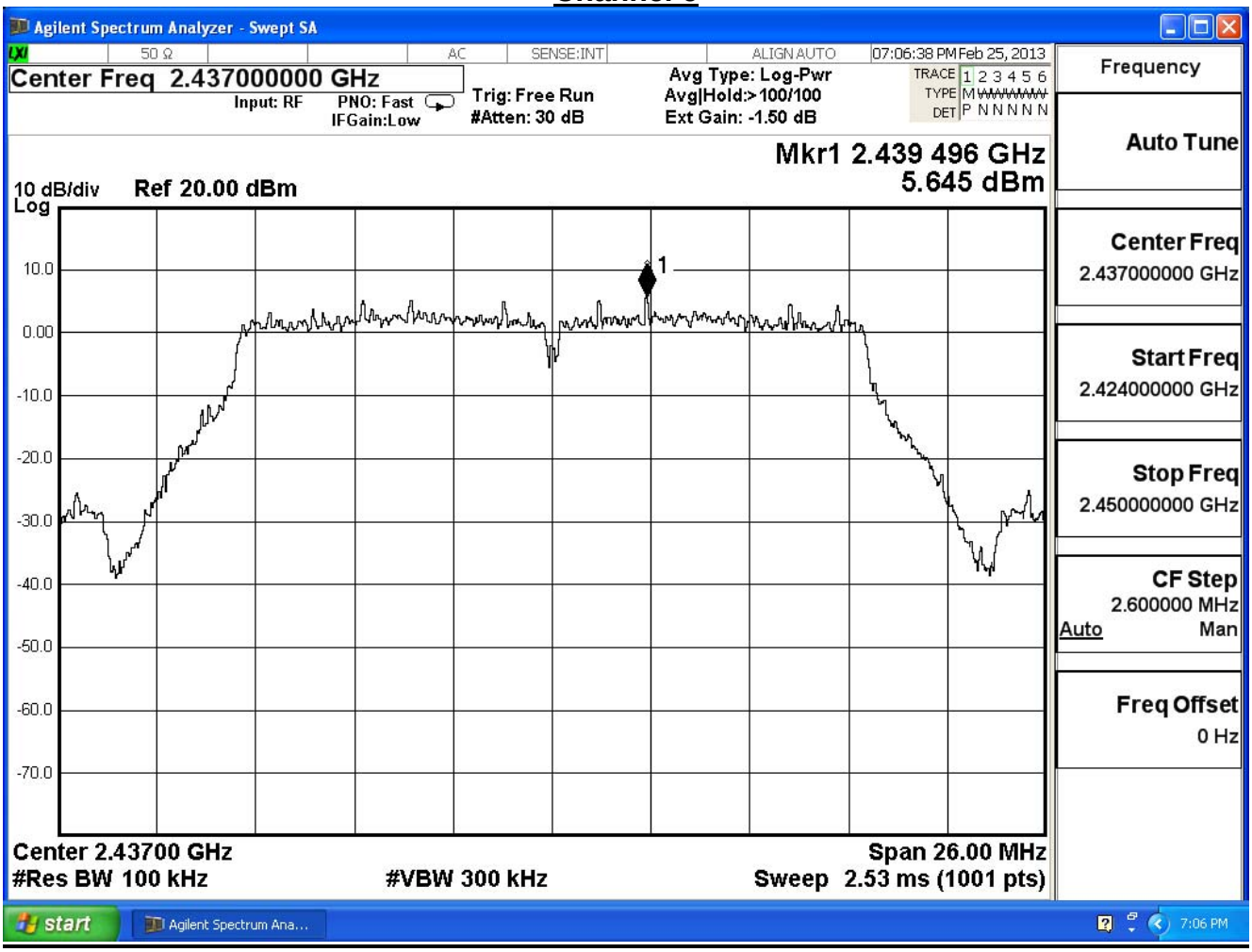
IEEE 802.11g					
Channel No.	Frequency (MHz)	Reading Level(dBm)	Measure Level(dBm)	Limit (dBm)	Result
1	2412	10.309	-4.891	≦8	Pass
6	2437	5.645	-9.555	≦8	Pass
11	2462	9.036	-6.164	≦8	Pass

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

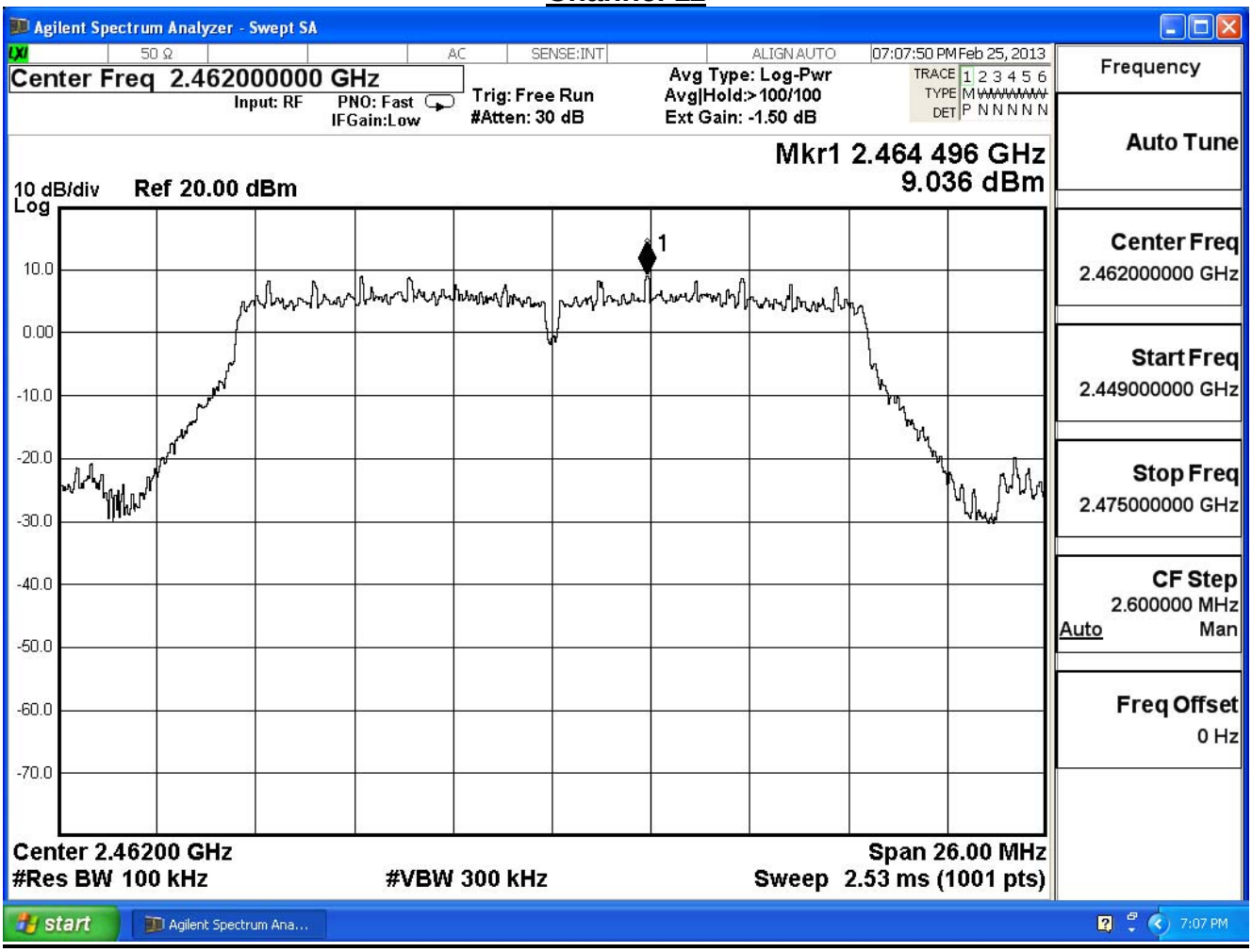
Channel 1



Channel 6


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:06:38 PM Feb 25, 2013
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: -1.50 dB
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Mkr1 2.439 496 GHz
5.645 dBm
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 2.43700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 26.00 MHz
Sweep 2.53 ms (1001 pts)
Frequency
Auto Tune
Center Freq
2.437000000 GHz
Start Freq
2.424000000 GHz
Stop Freq
2.450000000 GHz
CF Step
2.600000 MHz
Auto
Man
Freq Offset
0 Hz
start
Agilent Spectrum Ana...
7:06 PM

Channel 11

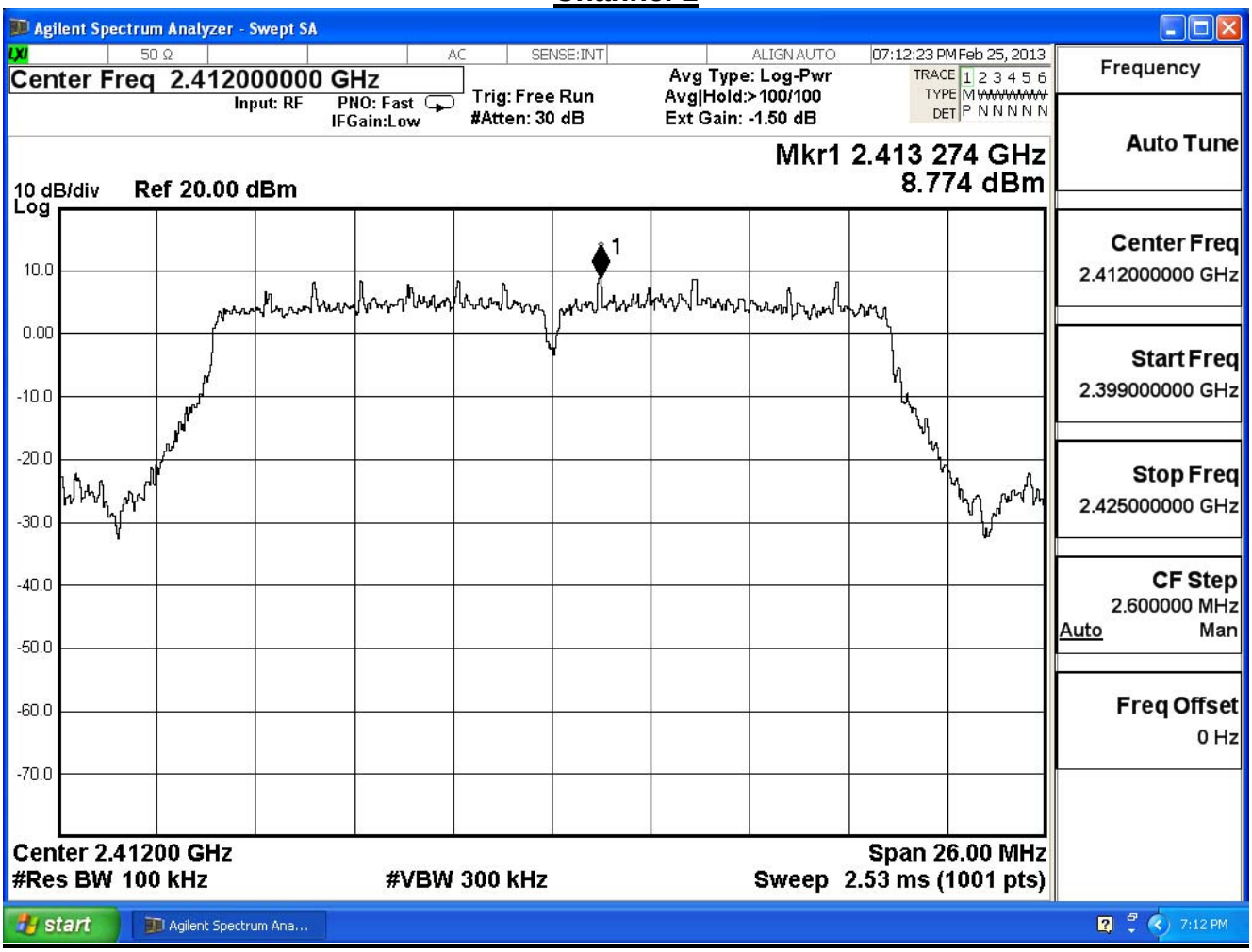

Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:07:50 PM Feb 25, 2013
Center Freq 2.462000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -1.50 dB
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Mkr1 2.464 496 GHz
9.036 dBm
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 2.46200 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 26.00 MHz
Sweep 2.53 ms (1001 pts)
Frequency
Auto Tune
Center Freq
2.462000000 GHz
Start Freq
2.449000000 GHz
Stop Freq
2.475000000 GHz
CF Step
2.600000 MHz
Auto
Man
Freq Offset
0 Hz
start
Agilent Spectrum Ana...
7:07 PM

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2013/02/25	Test Site	SR7

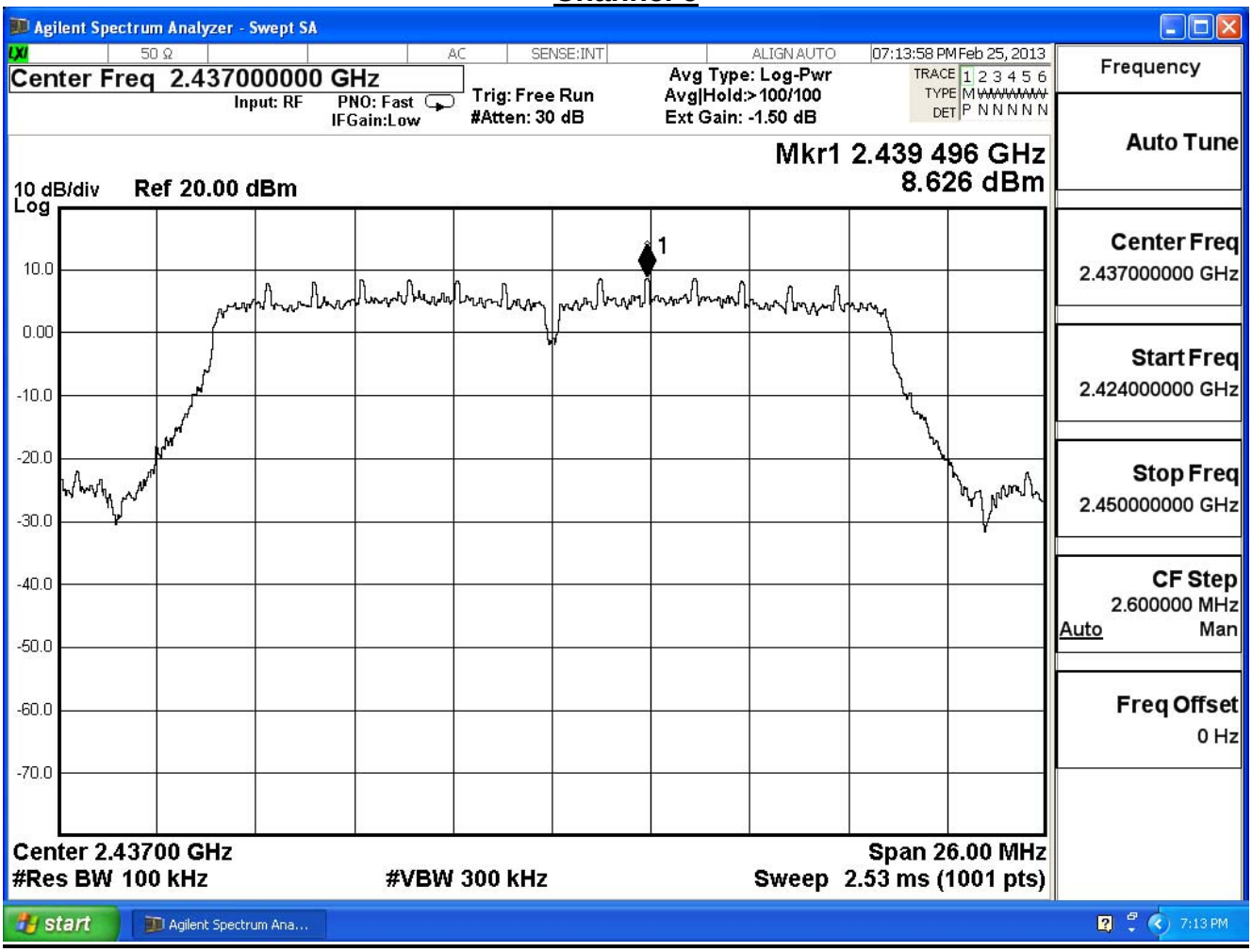
IEEE802.11n_20MHz_(ANT 0)					
Channel No.	Frequency (MHz)	Reading Level(dBm)	Measure Level(dBm)	Limit (dBm)	Result
1	2412	8.774	-6.426	≦8	Pass
6	2437	8.626	-6.574	≦8	Pass
11	2462	7.866	-6.334	≦8	Pass

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

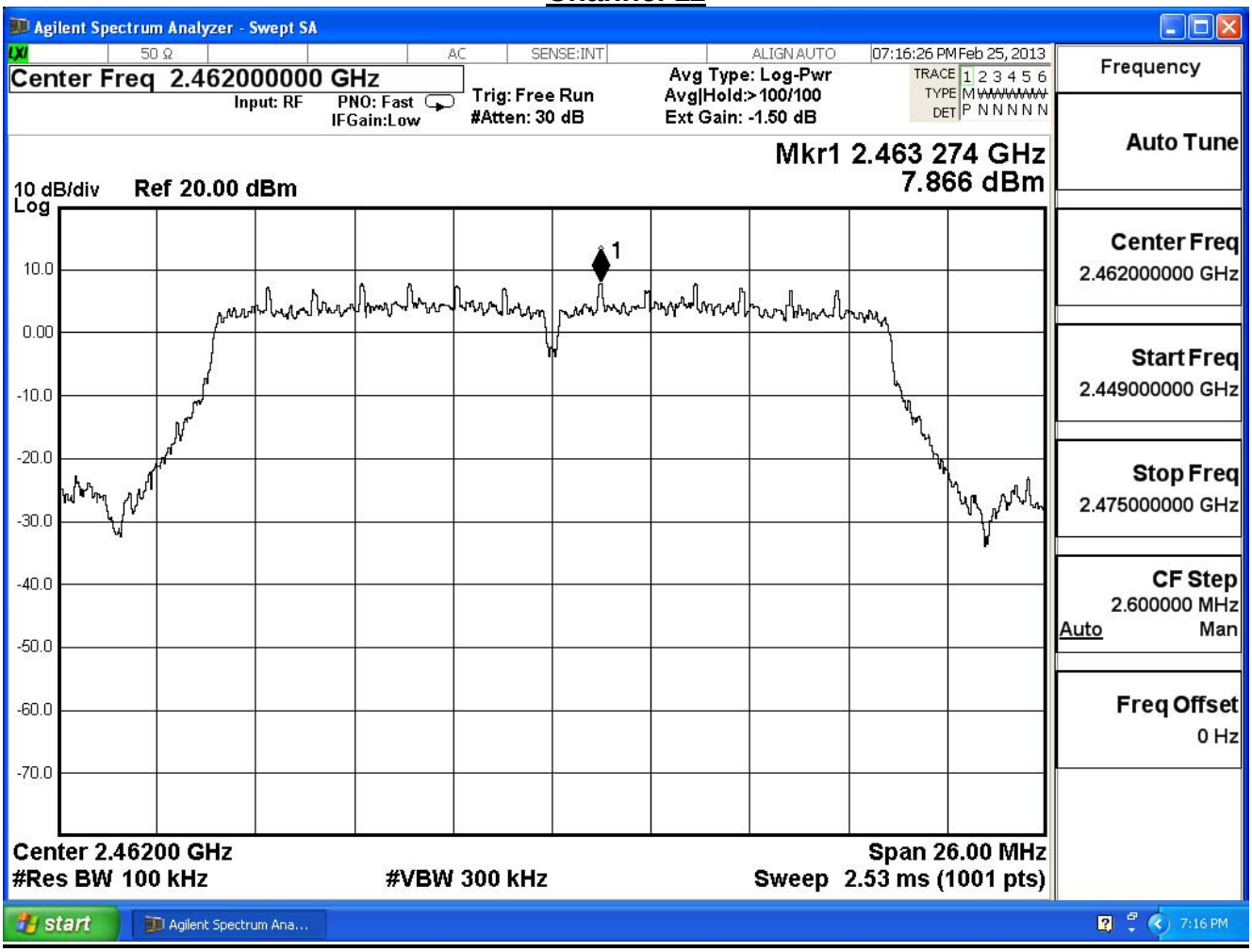
Channel 1



Channel 6


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:13:58 PM Feb 25, 2013
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: -1.50 dB
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Mkr1 2.439 496 GHz
8.626 dBm
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 2.43700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 26.00 MHz
Sweep 2.53 ms (1001 pts)
Frequency
Auto Tune
Center Freq
2.437000000 GHz
Start Freq
2.424000000 GHz
Stop Freq
2.450000000 GHz
CF Step
2.600000 MHz
Auto
Man
Freq Offset
0 Hz
start
Agilent Spectrum Ana...
7:13 PM

Channel 11

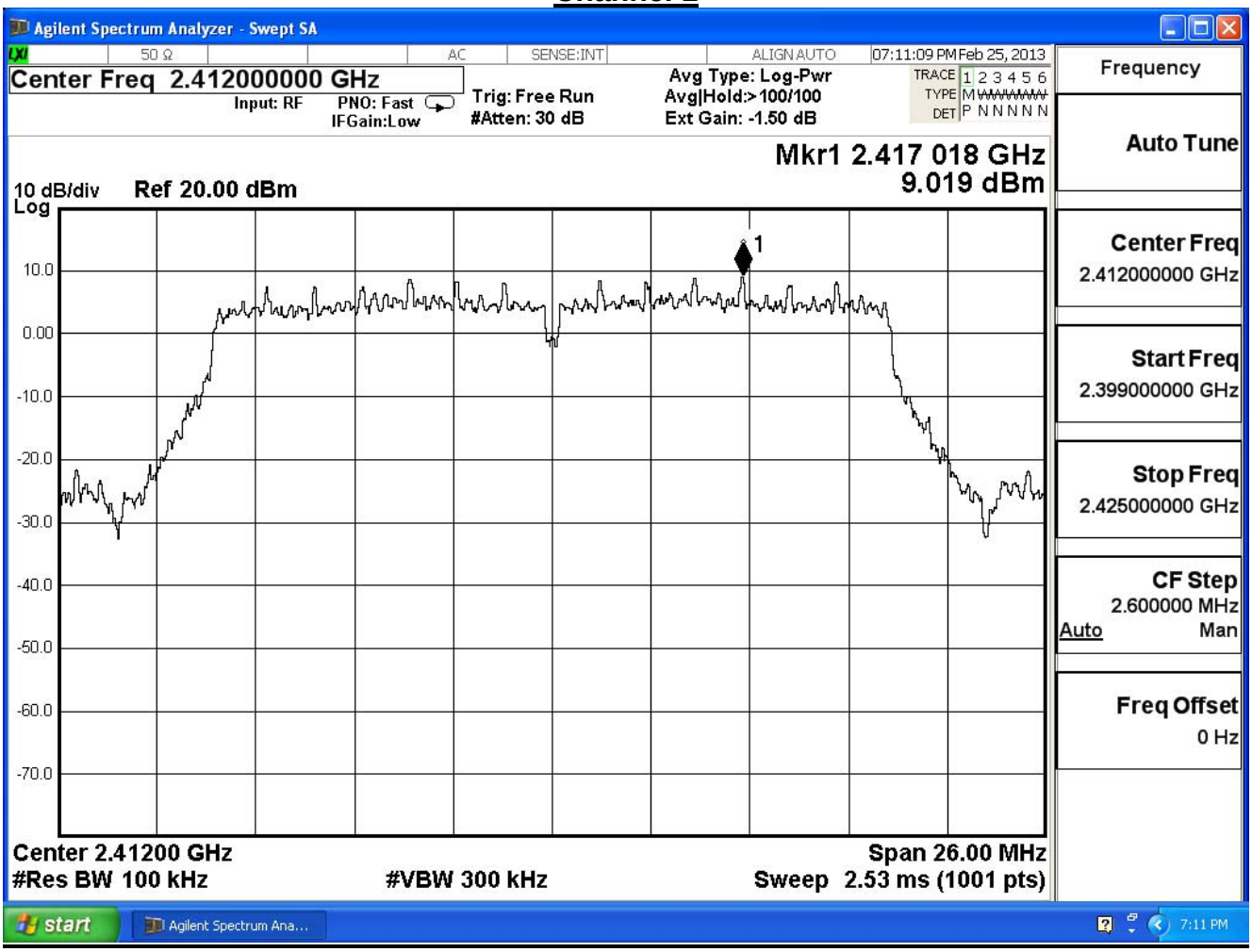

Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:16:26 PM Feb 25, 2013
Center Freq 2.462000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -1.50 dB
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Mkr1 2.463 274 GHz
7.866 dBm
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 2.46200 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 26.00 MHz
Sweep 2.53 ms (1001 pts)
Frequency
Auto Tune
Center Freq
2.462000000 GHz
Start Freq
2.449000000 GHz
Stop Freq
2.475000000 GHz
CF Step
2.600000 MHz
Auto
Man
Freq Offset
0 Hz
start
Agilent Spectrum Ana...
7:16 PM

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2013/02/25	Test Site	SR7

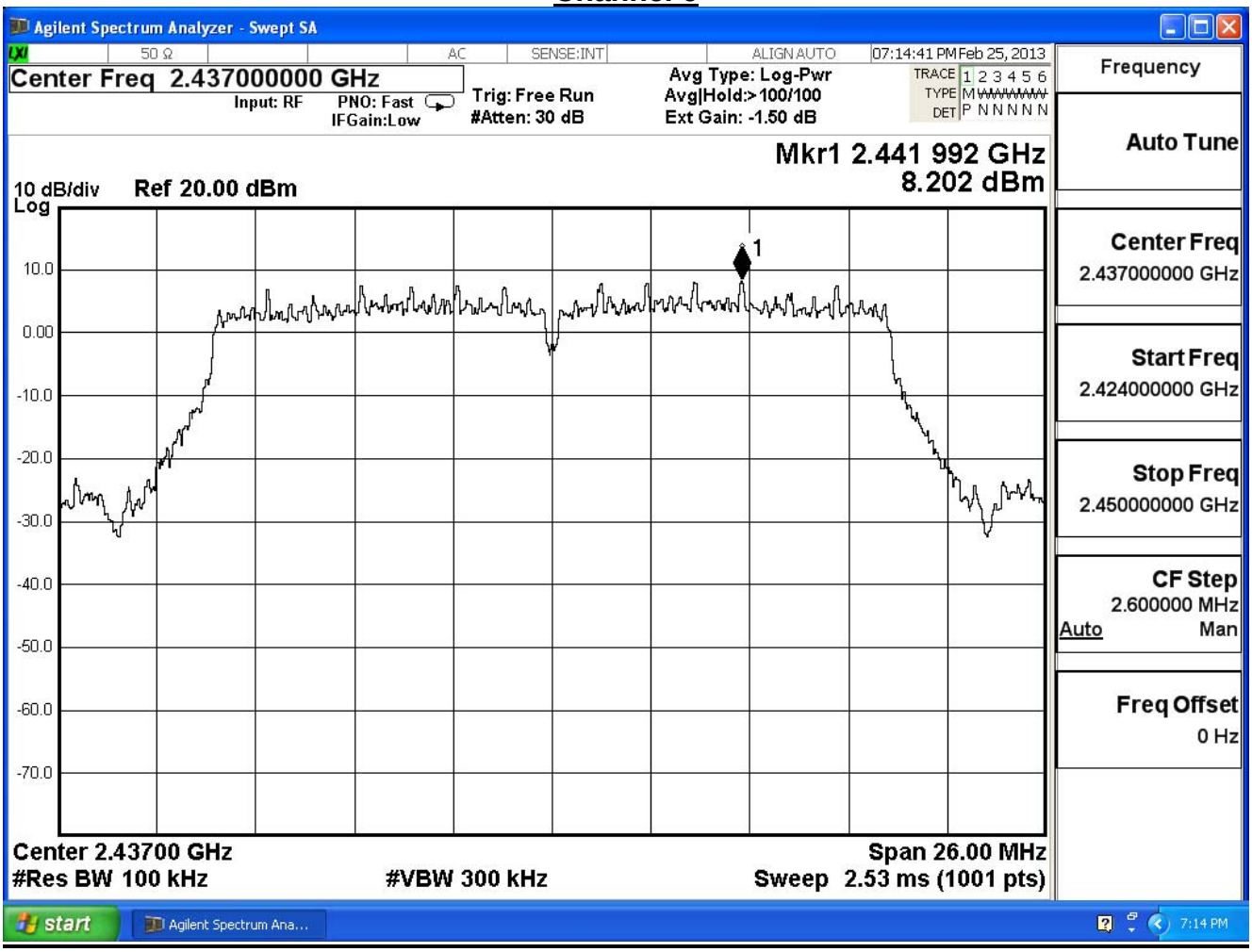
IEEE802.11n_20MHz_(ANT 1)					
Channel No.	Frequency (MHz)	Reading Level(dBm)	Measure Level(dBm)	Limit (dBm)	Result
1	2412	9.019	-6.181	≦8	Pass
6	2437	8.202	-6.998	≦8	Pass
11	2462	7.858	-7.342	≦8	Pass

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

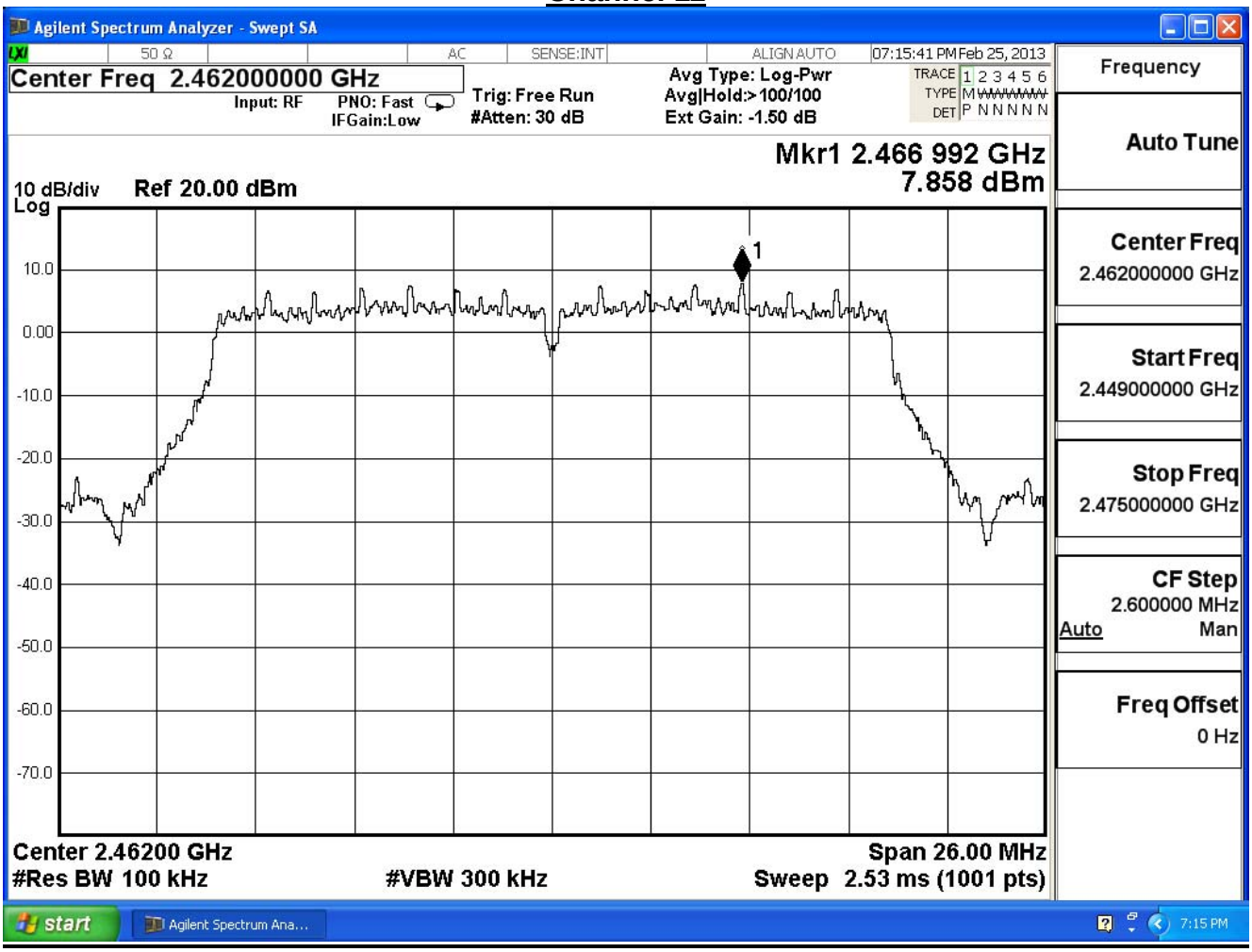
Channel 1



Channel 6


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:14:41 PM Feb 25, 2013
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: -1.50 dB
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Mkr1 2.441 992 GHz
8.202 dBm
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 2.43700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 26.00 MHz
Sweep 2.53 ms (1001 pts)
Frequency
Auto Tune
Center Freq
2.437000000 GHz
Start Freq
2.424000000 GHz
Stop Freq
2.450000000 GHz
CF Step
2.600000 MHz
Auto
Man
Freq Offset
0 Hz
start
Agilent Spectrum Ana...
7:14 PM

Channel 11


Agilent Spectrum Analyzer - Swept SA
Center Freq 2.462000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -1.50 dB
07:15:41 PM Feb 25, 2013
Mkr1 2.466 992 GHz
7.858 dBm
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 2.46200 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 26.00 MHz
Sweep 2.53 ms (1001 pts)
Frequency
Auto Tune
Center Freq
2.462000000 GHz
Start Freq
2.449000000 GHz
Stop Freq
2.475000000 GHz
CF Step
2.600000 MHz
Auto
Man
Freq Offset
0 Hz
start
Agilent Spectrum Ana...
7:15 PM

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2013/02/25	Test Site	SR7

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

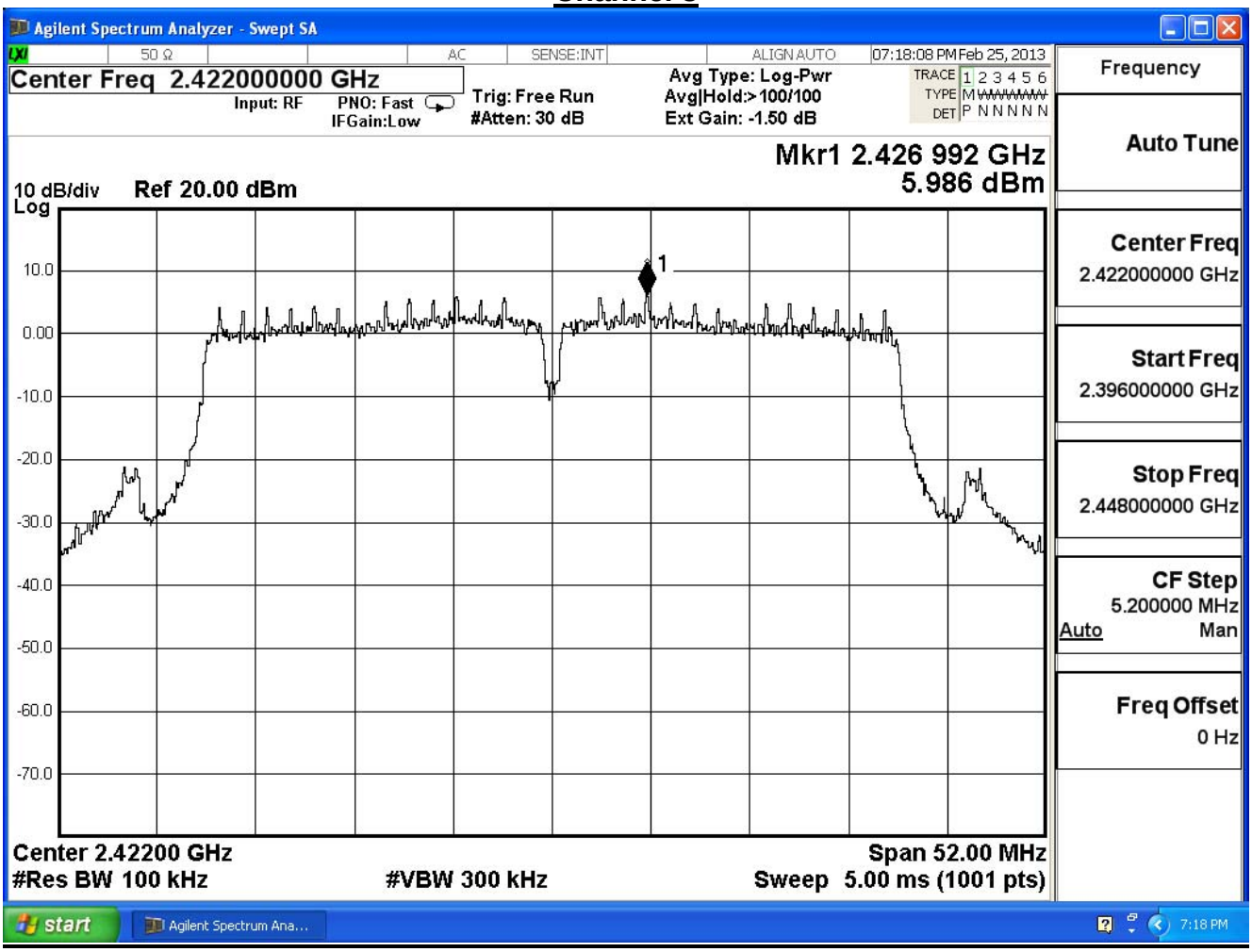
Channel No.	Frequency (MHz)	Measure Level(dBm)	Limit (dBm)	Result
1	2412	-3.69	≦8	Pass
6	2437	-3.71	≦8	Pass
11	2462	-3.93	≦8	Pass

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2013/02/25	Test Site	SR7

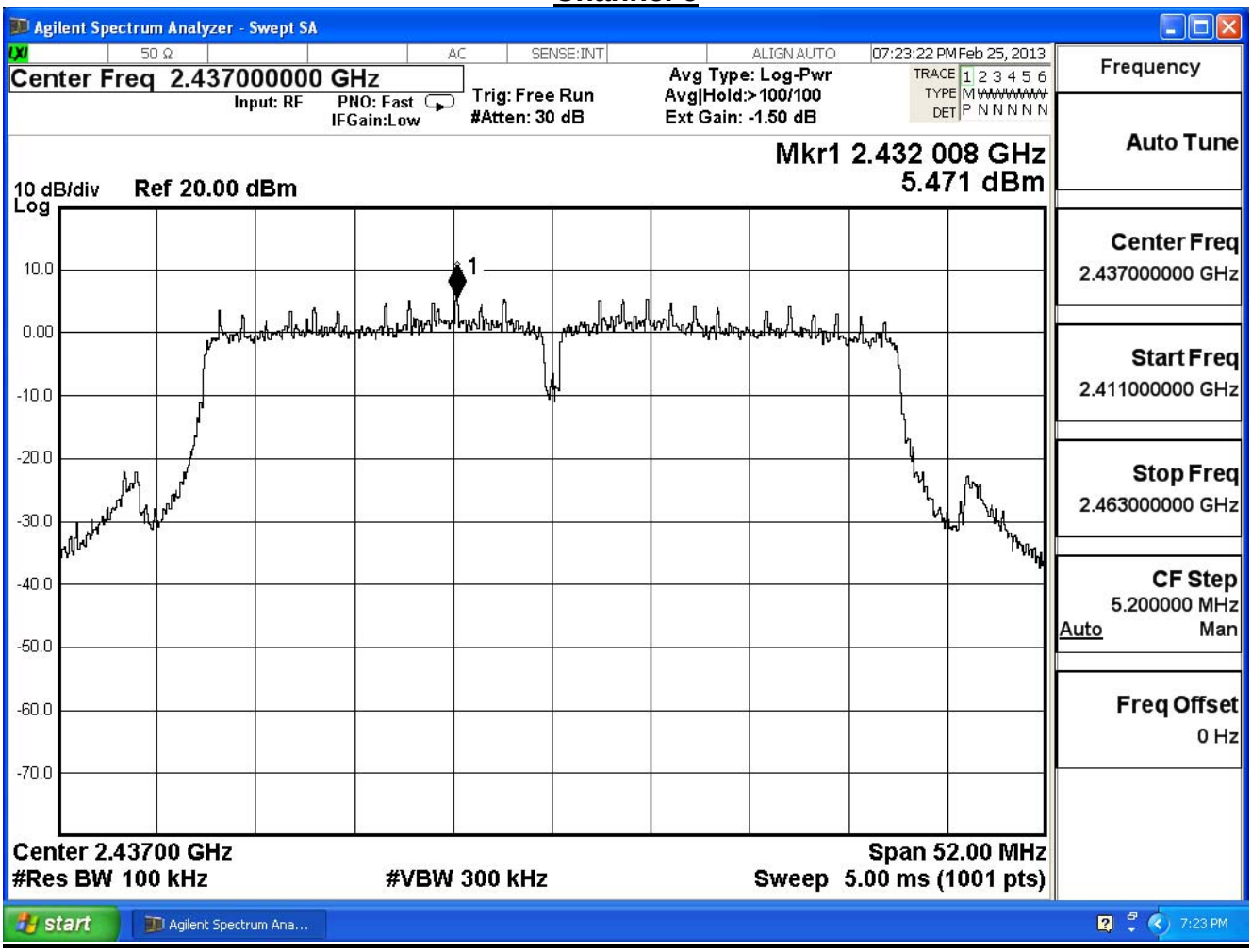
IEEE 802.11n_40MHz (ANT 0)					
Channel No.	Frequency (MHz)	Reading Level(dBm)	Measure Level(dBm)	Limit (dBm)	Result
3	2422	5.986	-9.214	≦8	Pass
6	2437	5.471	-9.729	≦8	Pass
9	2452	5.393	-9.807	≦8	Pass

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

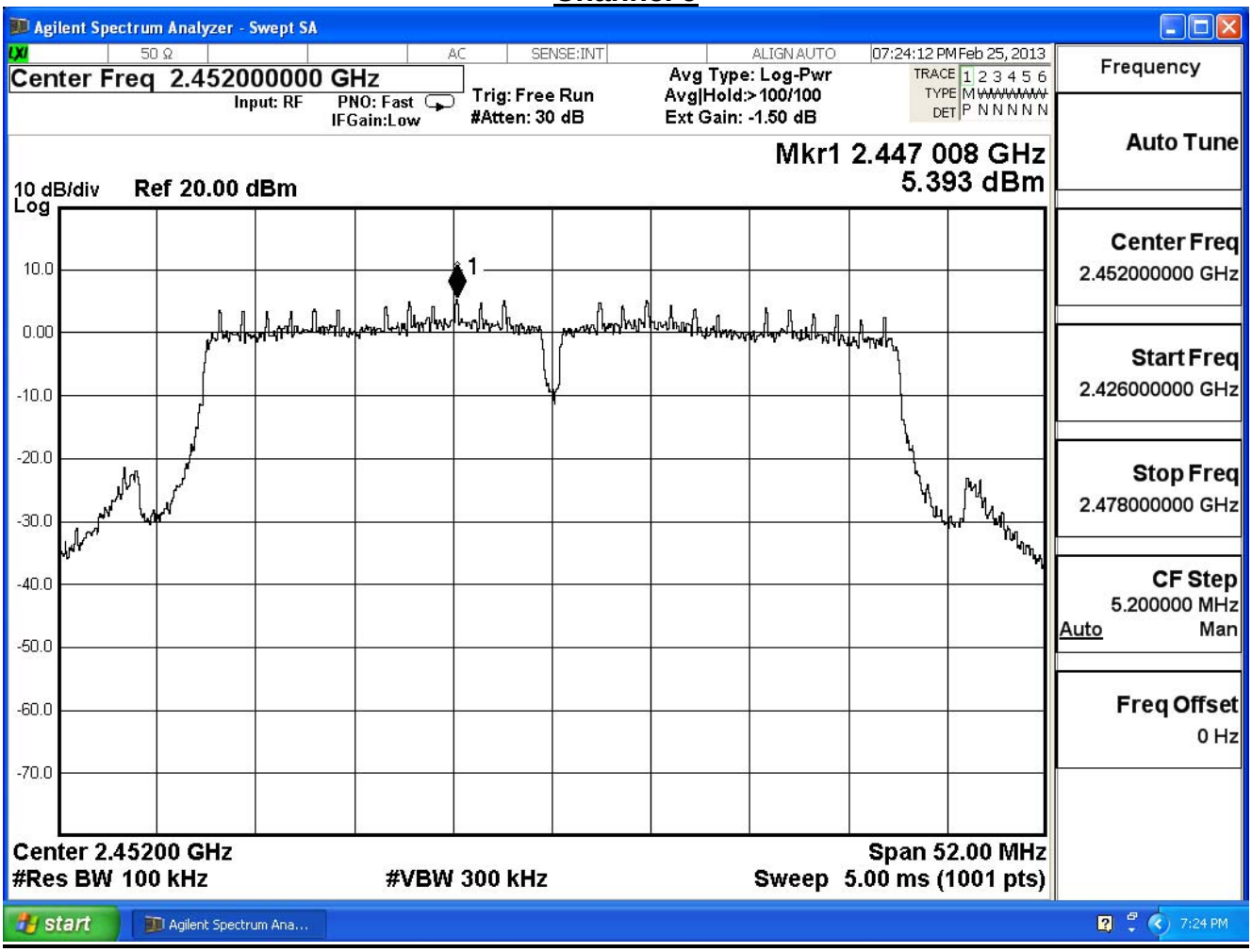
Channel 3



Channel 6


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:23:22 PM Feb 25, 2013
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: -1.50 dB
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Mkr1 2.432 008 GHz
5.471 dBm
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 2.43700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 52.00 MHz
Sweep 5.00 ms (1001 pts)
Frequency
Auto Tune
Center Freq
2.437000000 GHz
Start Freq
2.411000000 GHz
Stop Freq
2.463000000 GHz
CF Step
5.200000 MHz
Auto
Man
Freq Offset
0 Hz
start
Agilent Spectrum Ana...
7:23 PM

Channel 9

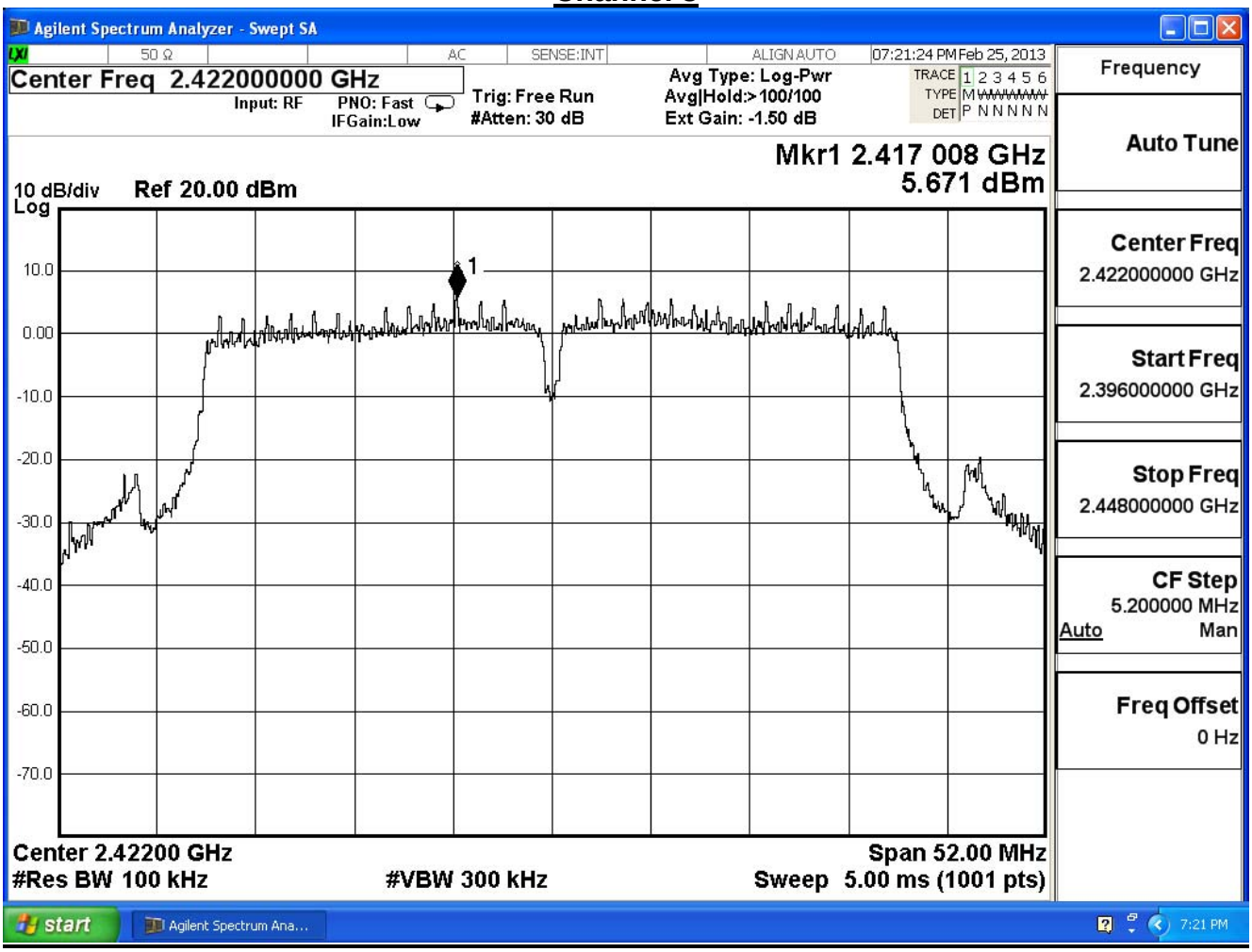

Agilent Spectrum Analyzer - Swept SA
Center Freq 2.452000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -1.50 dB
07:24:12 PM Feb 25, 2013
Mkr1 2.447 008 GHz
5.393 dBm
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center 2.45200 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 52.00 MHz
Sweep 5.00 ms (1001 pts)
Frequency
Auto Tune
Center Freq
2.452000000 GHz
Start Freq
2.426000000 GHz
Stop Freq
2.478000000 GHz
CF Step
5.200000 MHz
Auto
Man
Freq Offset
0 Hz
start
Agilent Spectrum Ana...
7:24 PM

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2013/02/25	Test Site	SR7

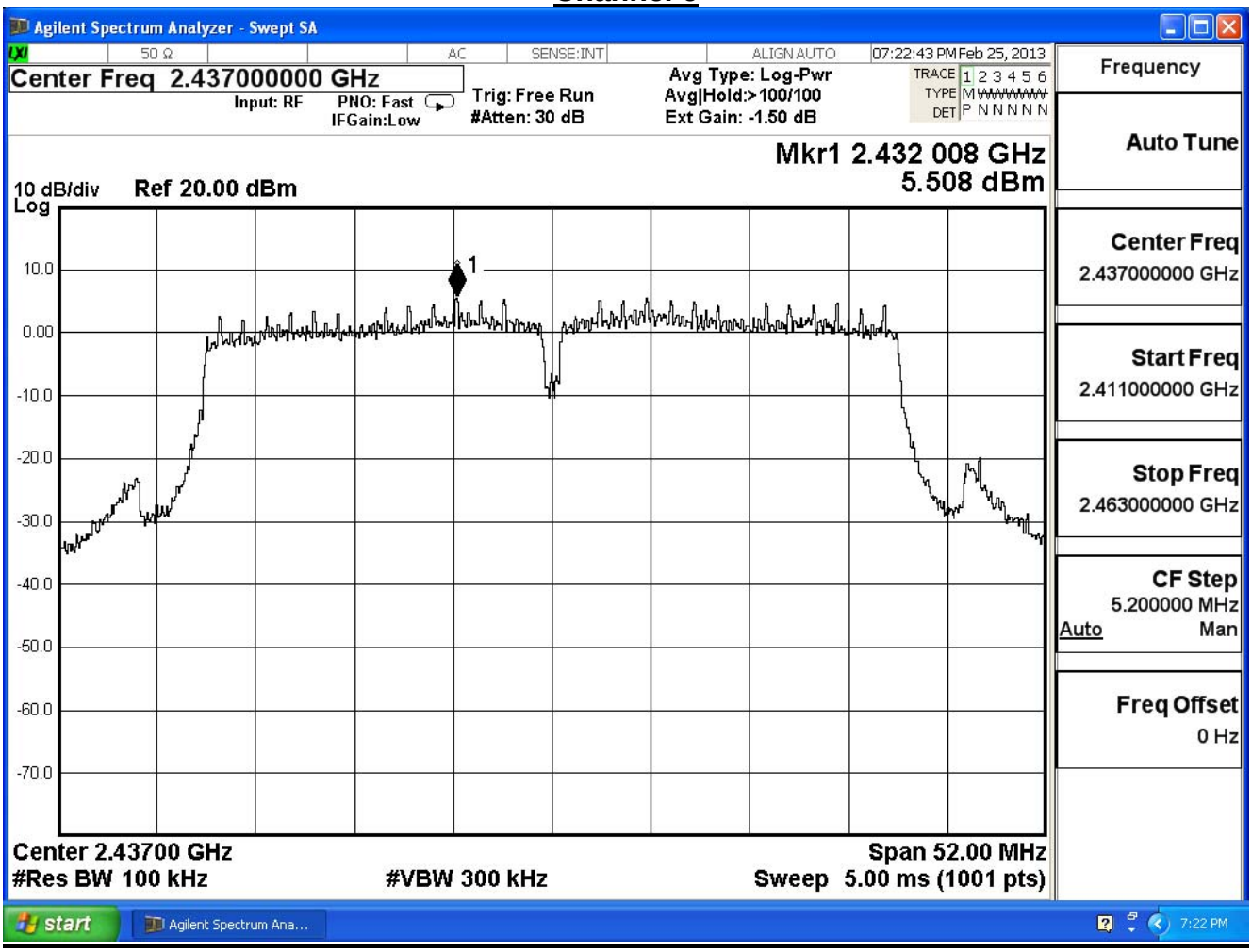
IEEE 802.11n_40MHz (ANT 1)					
Channel No.	Frequency (MHz)	Reading Level(dBm)	Measure Level(dBm)	Limit (dBm)	Result
3	2422	5.671	-9.529	≦8	Pass
6	2437	5.508	-9.692	≦8	Pass
9	2452	5.162	-10.038	≦8	Pass

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

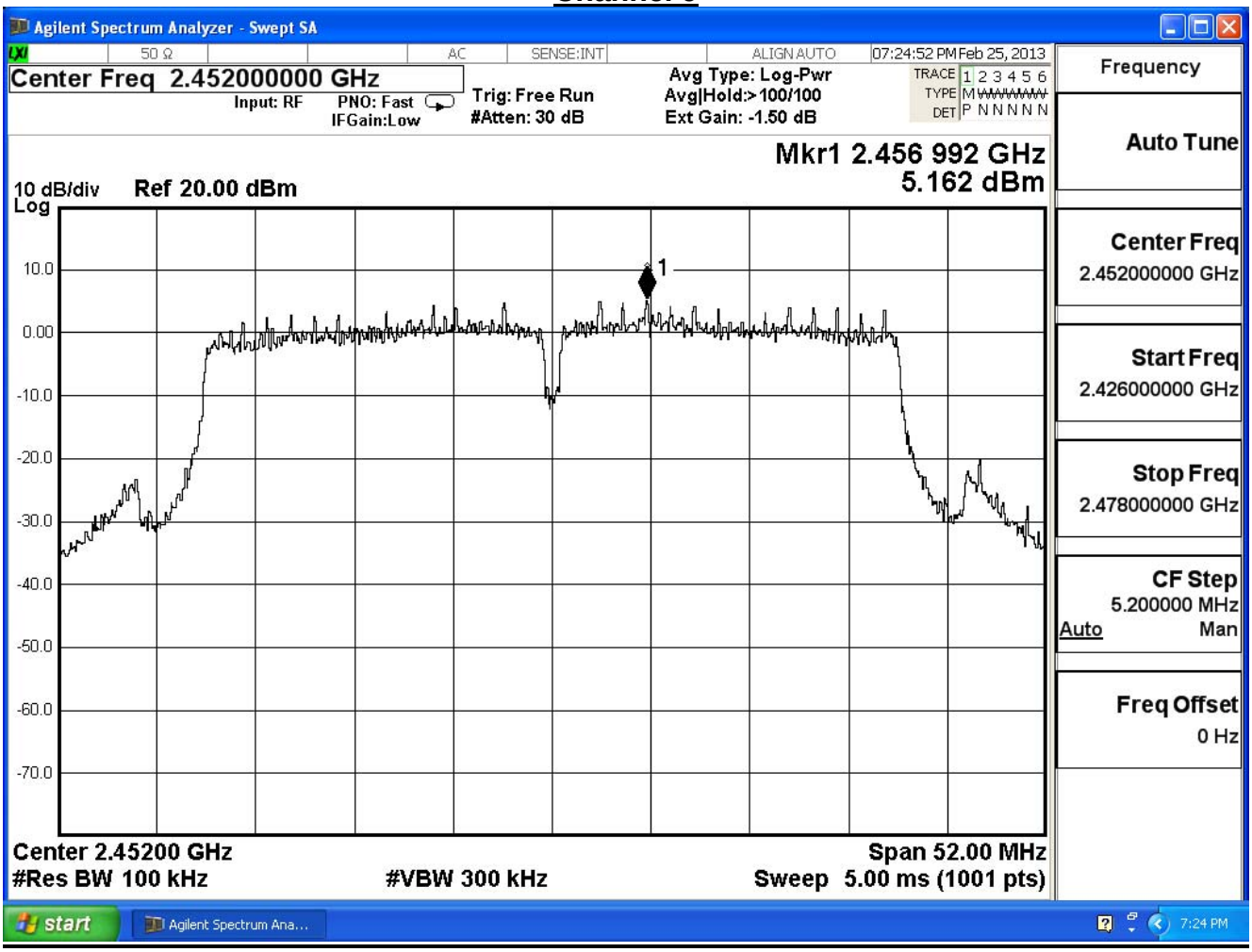
Channel 3



Channel 6


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:22:43 PM Feb 25, 2013
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: -1.50 dB
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Mkr1 2.432 008 GHz
5.508 dBm
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 2.43700 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 52.00 MHz
Sweep 5.00 ms (1001 pts)
Frequency
Auto Tune
Center Freq
2.437000000 GHz
Start Freq
2.411000000 GHz
Stop Freq
2.463000000 GHz
CF Step
5.200000 MHz
Auto
Man
Freq Offset
0 Hz
start
Agilent Spectrum Ana...
7:22 PM

Channel 9


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:24:52 PM Feb 25, 2013
Center Freq 2.452000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -1.50 dB
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Mkr1 2.456 992 GHz
5.162 dBm
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 2.45200 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 52.00 MHz
Sweep 5.00 ms (1001 pts)
Frequency
Auto Tune
Center Freq
2.452000000 GHz
Start Freq
2.426000000 GHz
Stop Freq
2.478000000 GHz
CF Step
5.200000 MHz
Auto
Man
Freq Offset
0 Hz
start
Agilent Spectrum Ana...
7:24 PM

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2013/02/25	Test Site	SR7

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

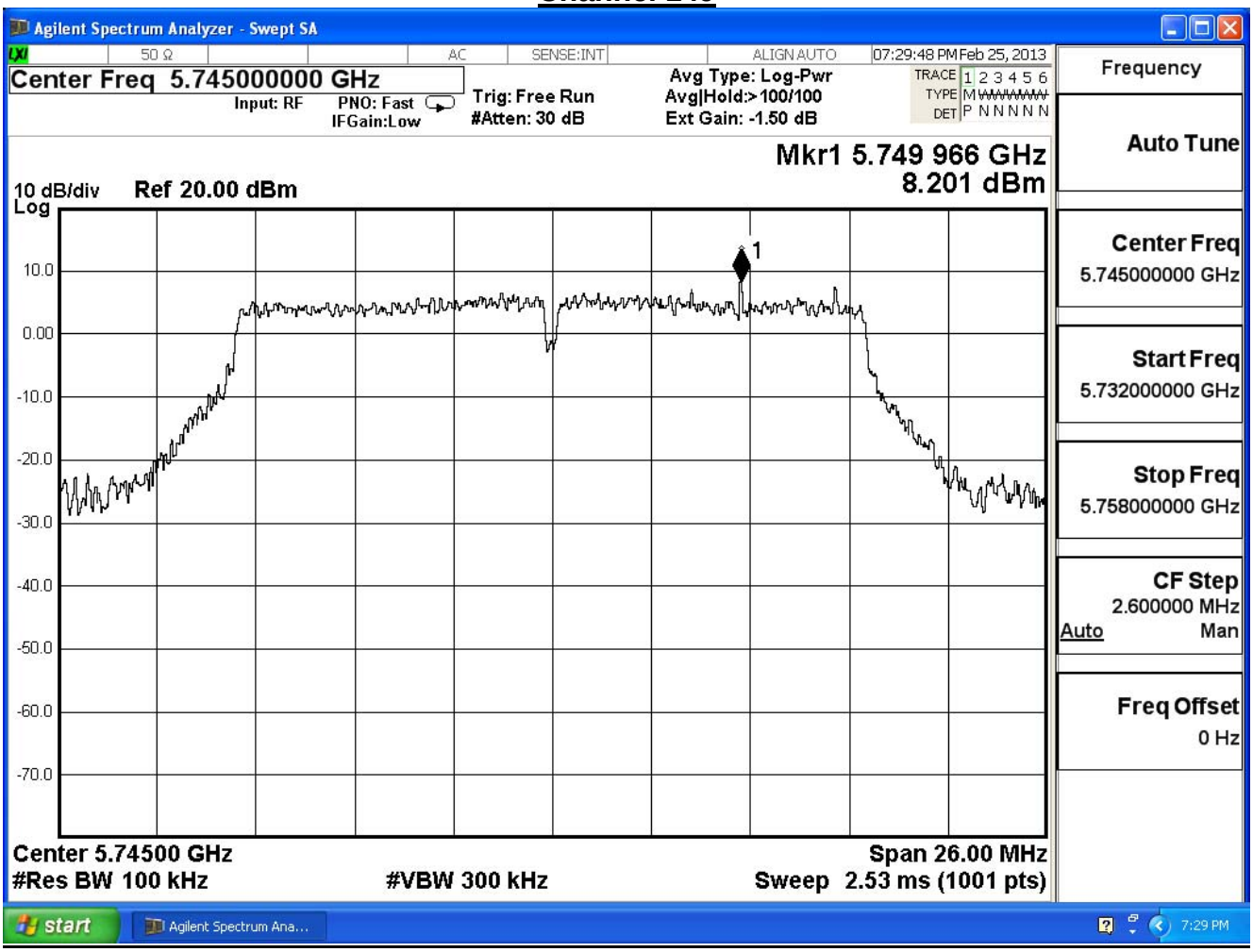
Channel No.	Frequency (MHz)	Measure Level(dBm)	Limit (dBm)	Result
3	2422	-6.44	≦8	Pass
6	2437	-6.66	≦8	Pass
9	2452	-6.87	≦8	Pass

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2013/02/25	Test Site	SR7

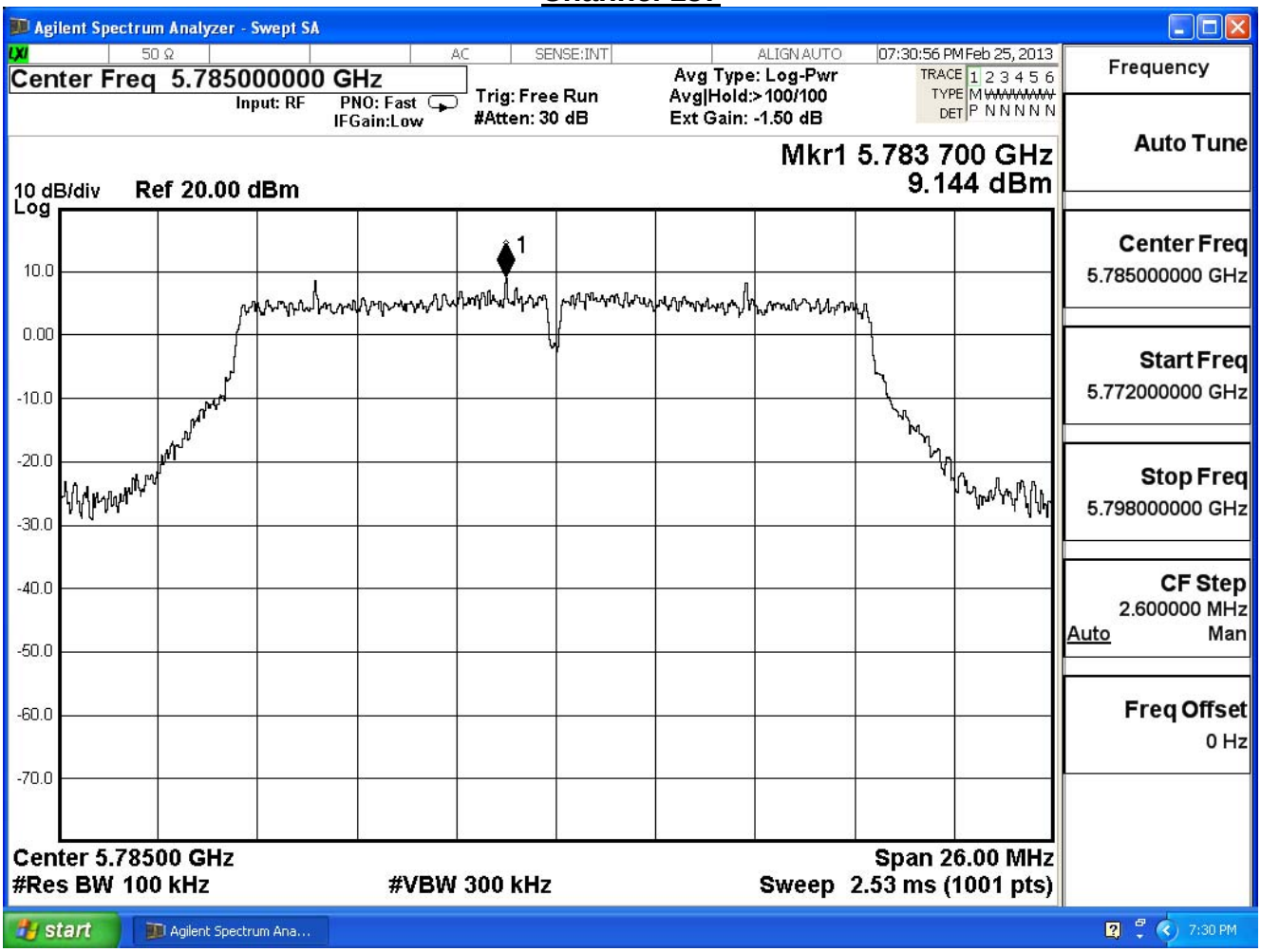
IEEE 802.11a					
Channel No.	Frequency (MHz)	Reading Level(dBm)	Measure Level(dBm)	Limit (dBm)	Result
149	5745	8.201	-6.999	≦8	Pass
157	5785	9.144	-6.056	≦8	Pass
165	5825	8.711	-6.489	≦8	Pass

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

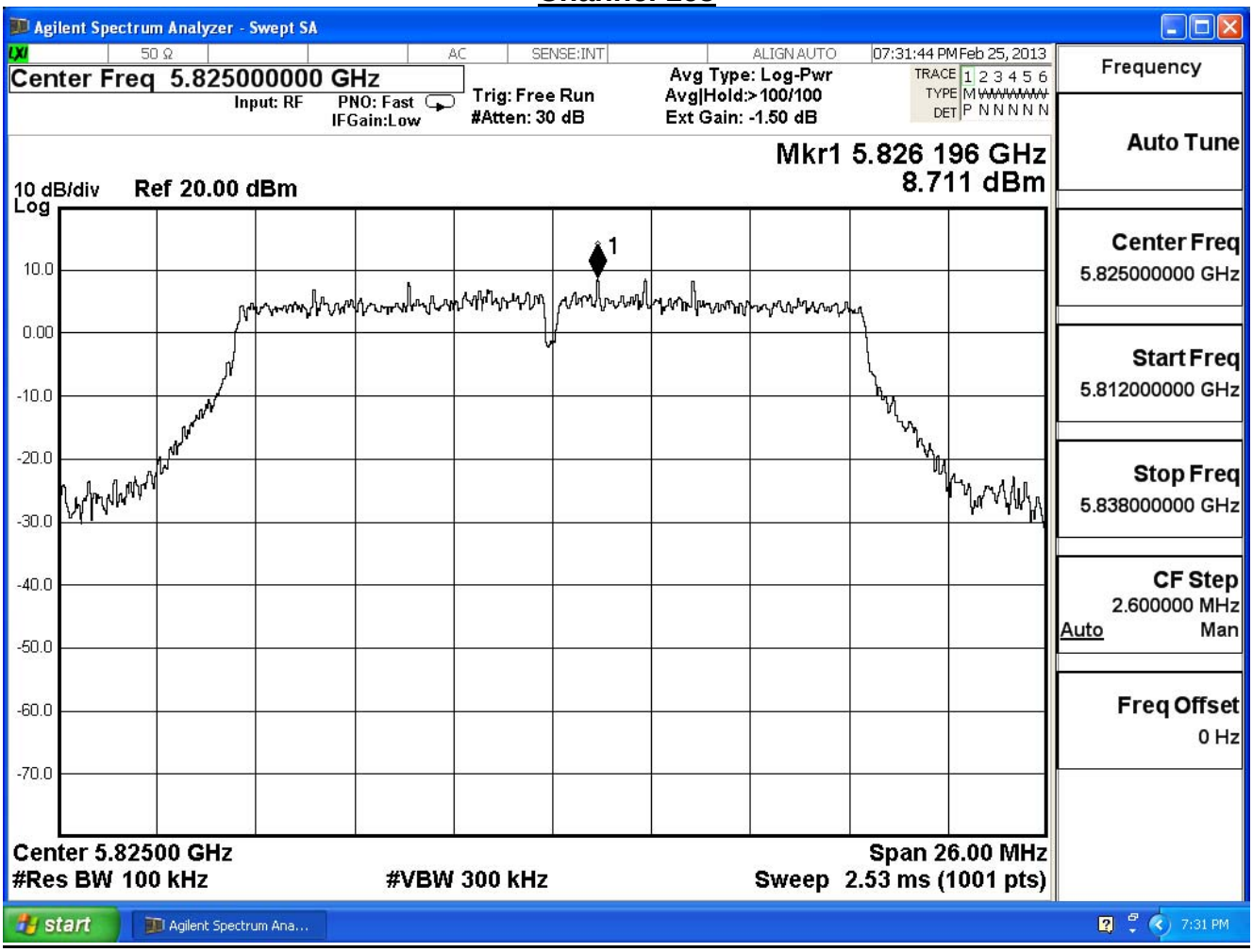
Channel 149



Channel 157


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:30:56 PM Feb 25, 2013
Center Freq 5.785000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -1.50 dB
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Mkr1 5.783 700 GHz
9.144 dBm
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 5.78500 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 26.00 MHz
Sweep 2.53 ms (1001 pts)
Frequency
Auto Tune
Center Freq
5.785000000 GHz
Start Freq
5.772000000 GHz
Stop Freq
5.798000000 GHz
CF Step
2.600000 MHz
Auto
Man
Freq Offset
0 Hz
start
Agilent Spectrum Ana...
7:30 PM

Channel 165

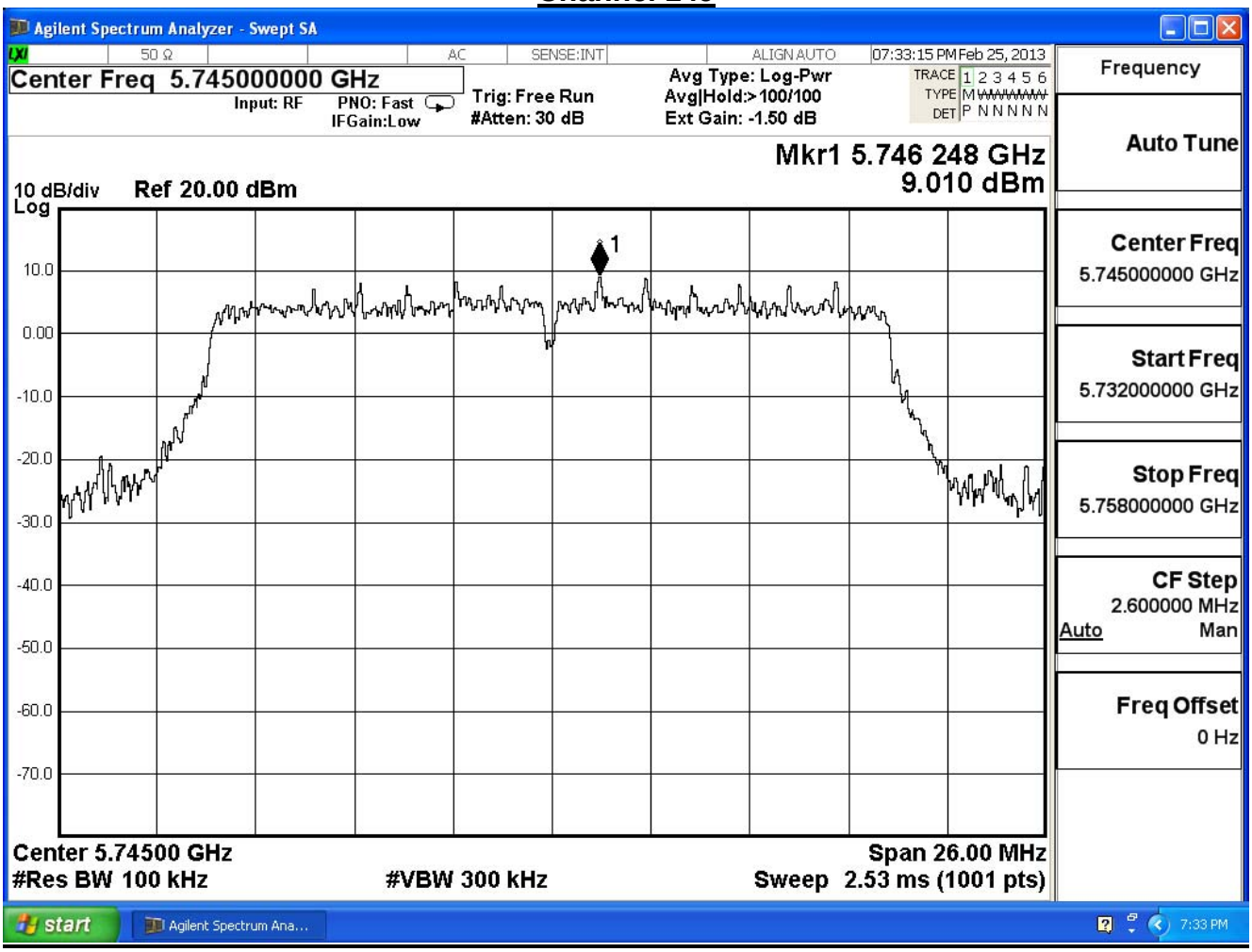

Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:31:44 PM Feb 25, 2013
Center Freq 5.825000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -1.50 dB
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Mkr1 5.826 196 GHz
8.711 dBm
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 5.82500 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 26.00 MHz
Sweep 2.53 ms (1001 pts)
Frequency
Auto Tune
Center Freq
5.825000000 GHz
Start Freq
5.812000000 GHz
Stop Freq
5.838000000 GHz
CF Step
2.600000 MHz
Auto
Man
Freq Offset
0 Hz
start
Agilent Spectrum Ana...
7:31 PM

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2013/02/25	Test Site	SR7

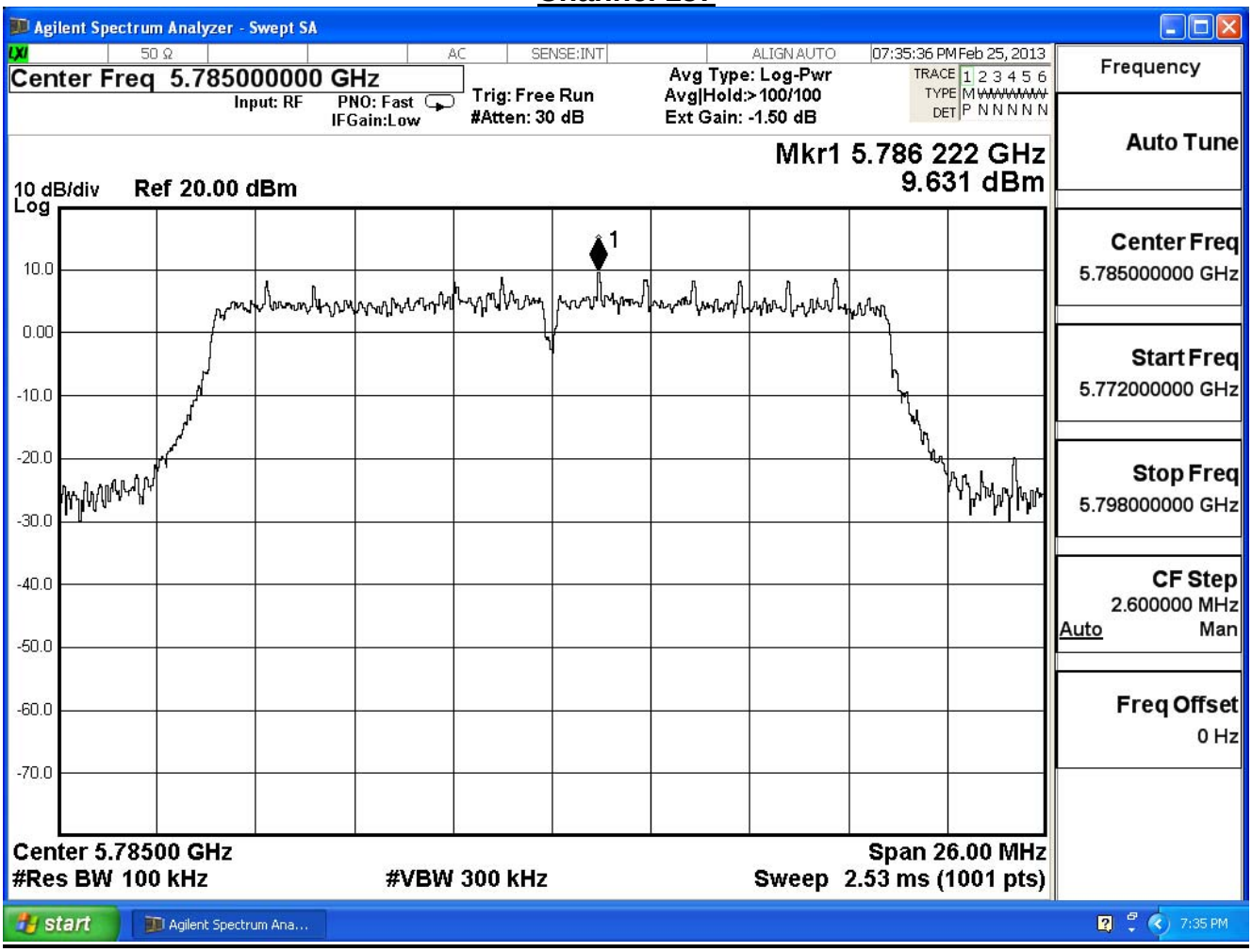
IEEE802.11n_20MHz_(ANT 0)					
Channel No.	Frequency (MHz)	Reading Level(dBm)	Measure Level(dBm)	Limit (dBm)	Result
149	5745	9.010	-6.190	≦8	Pass
157	5785	9.631	-5.569	≦8	Pass
165	5825	9.529	-5.671	≦8	Pass

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

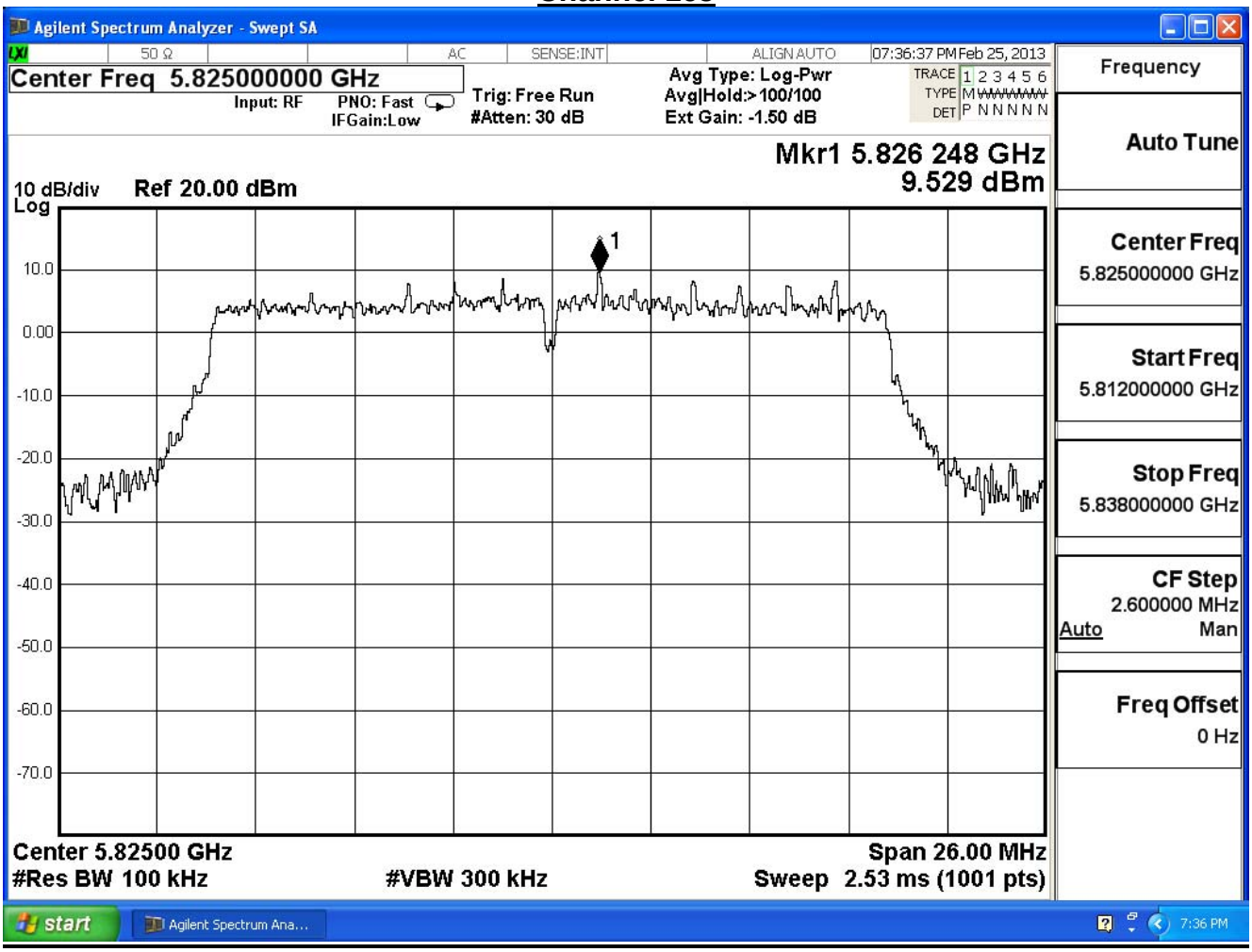
Channel 149



Channel 157


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:35:36 PM Feb 25, 2013
Center Freq 5.785000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -1.50 dB
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Mkr1 5.786 222 GHz
9.631 dBm
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 5.78500 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 26.00 MHz
Sweep 2.53 ms (1001 pts)
Frequency
Auto Tune
Center Freq
5.785000000 GHz
Start Freq
5.772000000 GHz
Stop Freq
5.798000000 GHz
CF Step
2.600000 MHz
Auto
Man
Freq Offset
0 Hz
start
Agilent Spectrum Ana...
7:35 PM

Channel 165

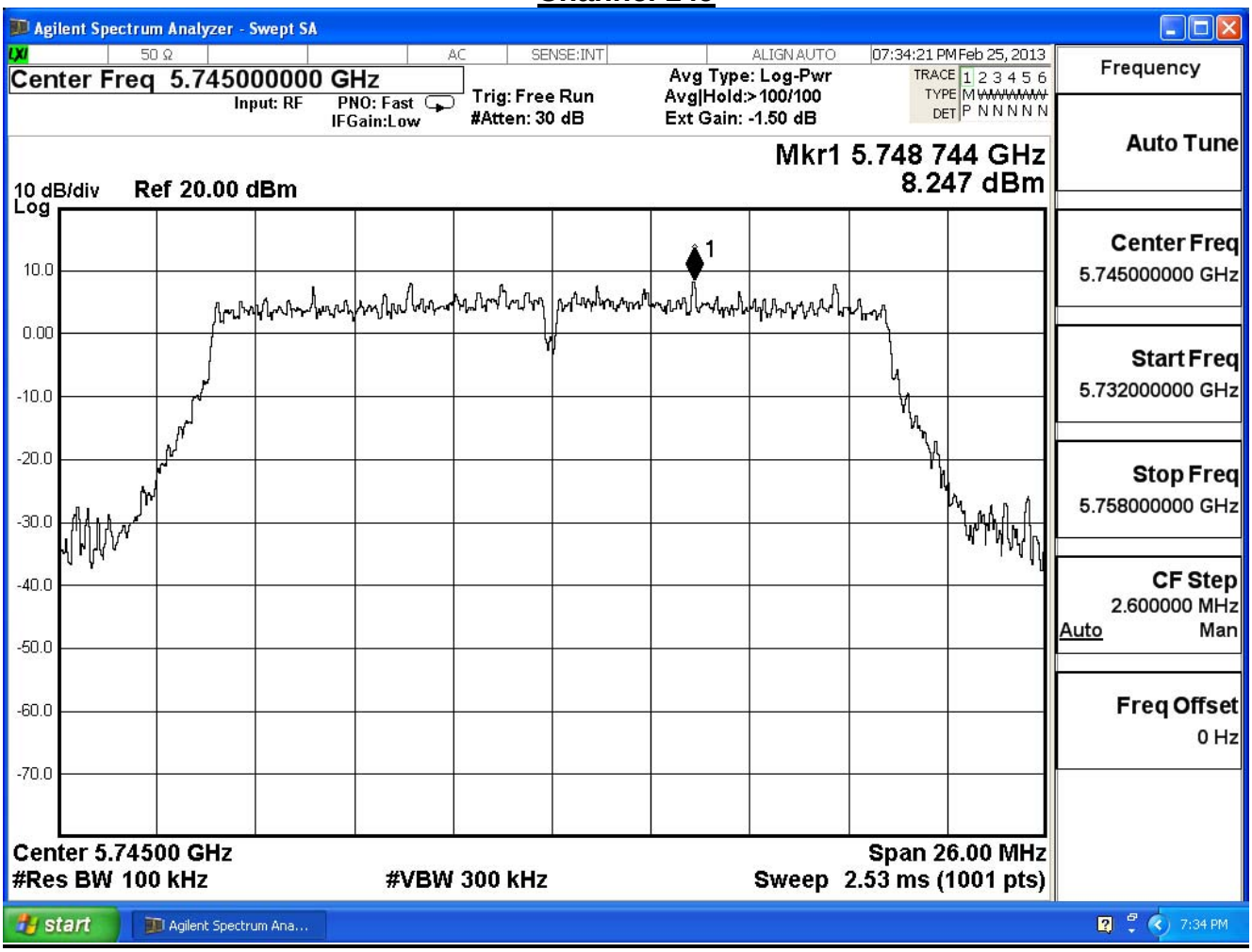

Agilent Spectrum Analyzer - Swept SA
Center Freq 5.825000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -1.50 dB
07:36:37 PM Feb 25, 2013
Mkr1 5.826 248 GHz
9.529 dBm
10 dB/div
Log
Ref 20.00 dBm
10.0
0.00
-10.0
-20.0
-30.0
-40.0
-50.0
-60.0
-70.0
Center 5.82500 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 26.00 MHz
Sweep 2.53 ms (1001 pts)
Frequency
Auto Tune
Center Freq
5.825000000 GHz
Start Freq
5.812000000 GHz
Stop Freq
5.838000000 GHz
CF Step
2.600000 MHz
Auto
Man
Freq Offset
0 Hz
start
Agilent Spectrum Ana...
7:36 PM

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2013/02/25	Test Site	SR7

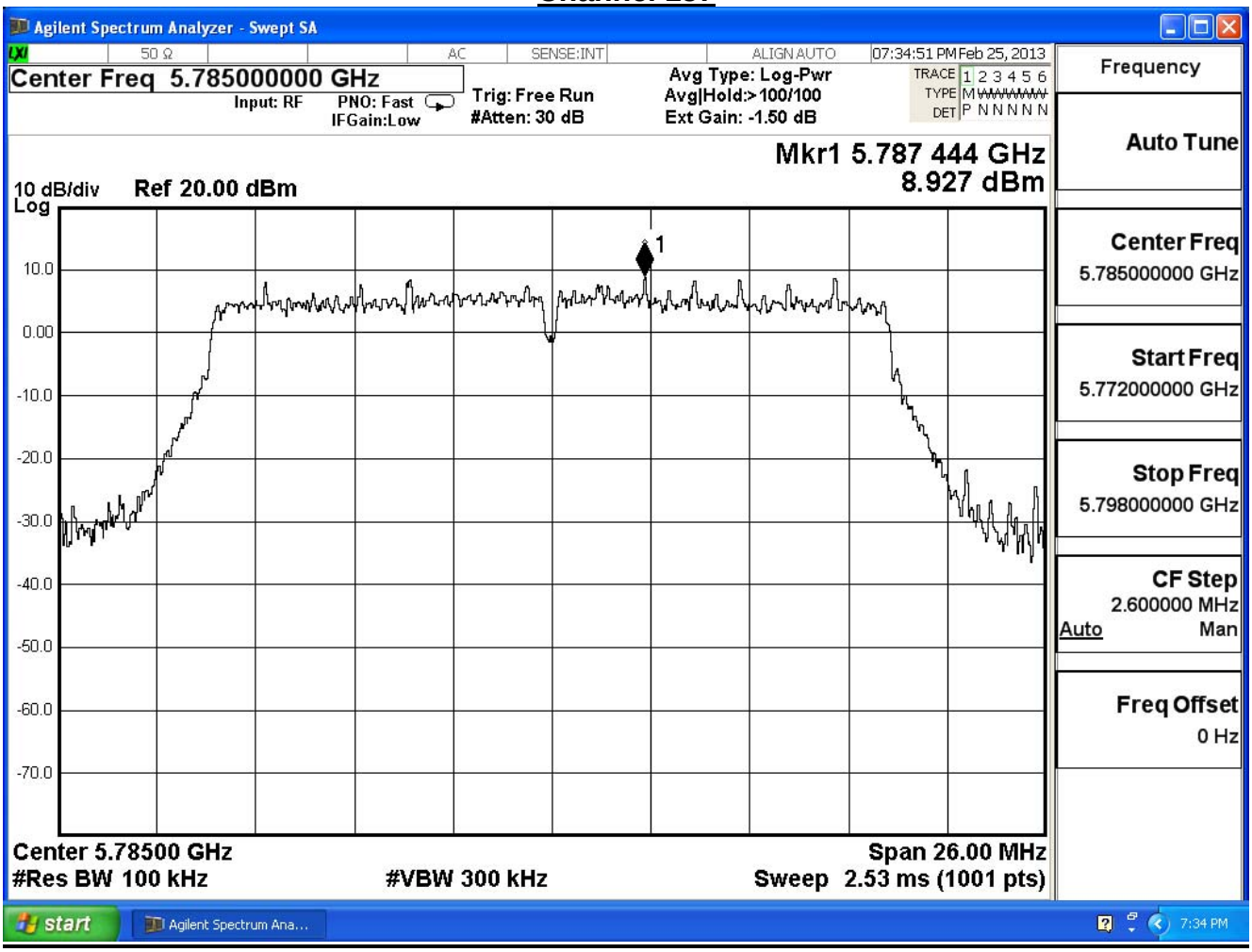
IEEE802.11n_20MHz_(ANT 1)					
Channel No.	Frequency (MHz)	Reading Level(dBm)	Measure Level(dBm)	Limit (dBm)	Result
149	5745	8.247	-6.953	≦8	Pass
157	5785	8.927	-6.273	≦8	Pass
165	5825	8.388	-6.812	≦8	Pass

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

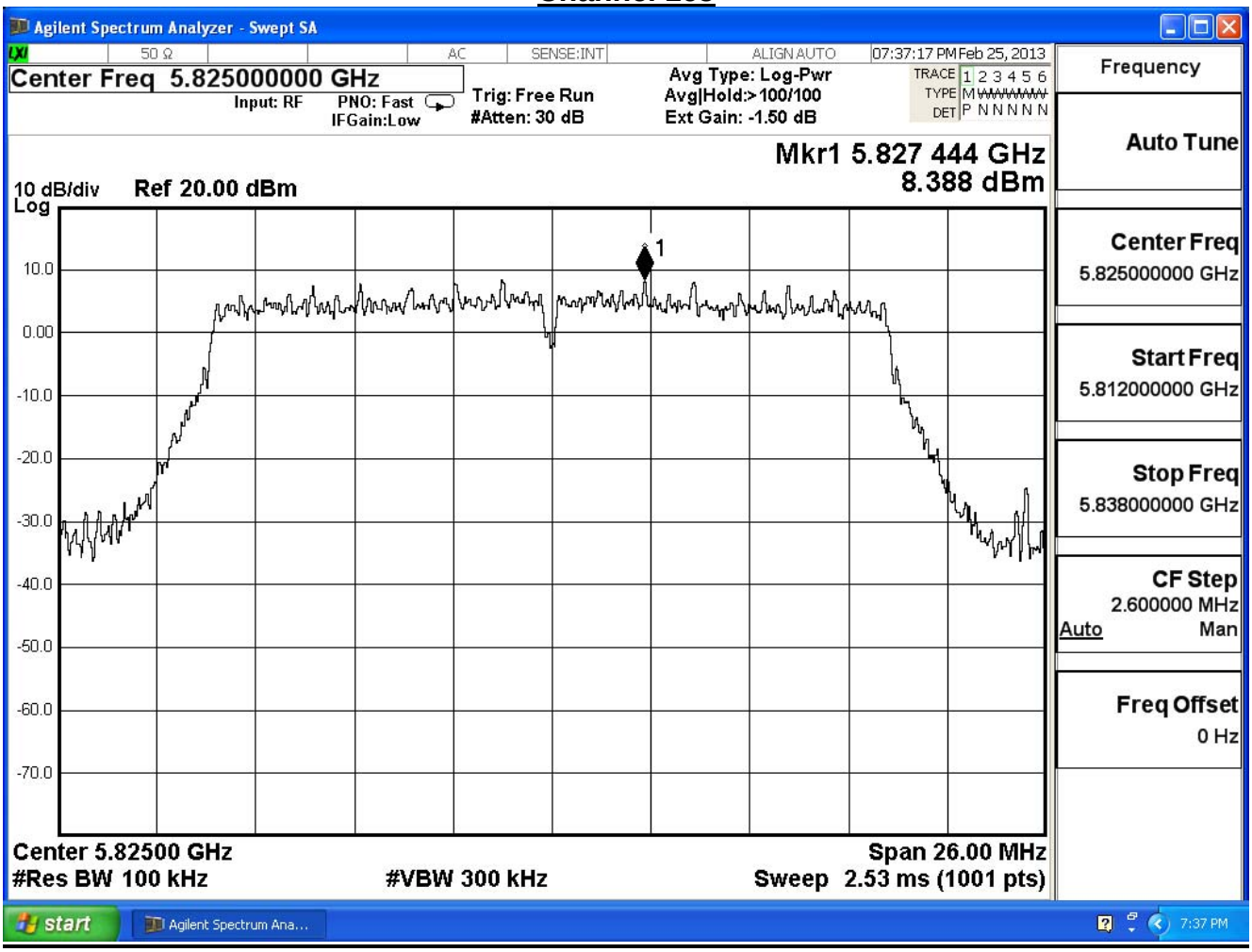
Channel 149



Channel 157


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:34:51 PM Feb 25, 2013
Center Freq 5.785000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -1.50 dB
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Mkr1 5.787 444 GHz
8.927 dBm
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 5.78500 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 26.00 MHz
Sweep 2.53 ms (1001 pts)
Frequency
Auto Tune
Center Freq
5.785000000 GHz
Start Freq
5.772000000 GHz
Stop Freq
5.798000000 GHz
CF Step
2.600000 MHz
Auto
Man
Freq Offset
0 Hz
start
Agilent Spectrum Ana...
7:34 PM

Channel 165


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:37:17 PM Feb 25, 2013
Center Freq 5.825000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -1.50 dB
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Mkr1 5.827 444 GHz
8.388 dBm
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 5.82500 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 26.00 MHz
Sweep 2.53 ms (1001 pts)
Frequency
Auto Tune
Center Freq
5.825000000 GHz
Start Freq
5.812000000 GHz
Stop Freq
5.838000000 GHz
CF Step
2.600000 MHz
Auto
Man
Freq Offset
0 Hz
start
Agilent Spectrum Ana...
7:37 PM

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2013/02/25	Test Site	SR7

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

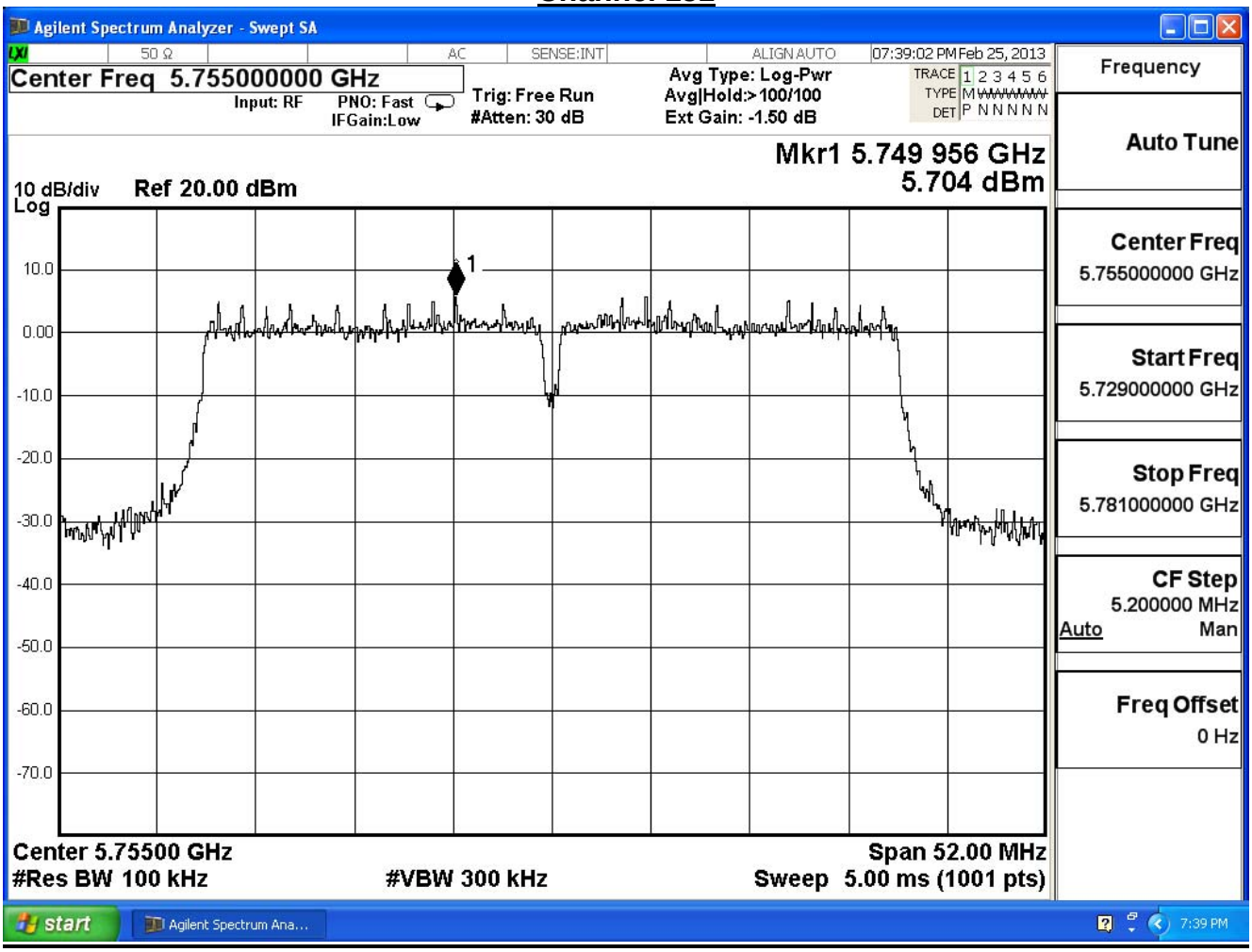
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
149	5745	-3.54	≦8	Pass
157	5785	-2.90	≦8	Pass
165	5825	-3.19	≦8	Pass

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2013/02/25	Test Site	SR7

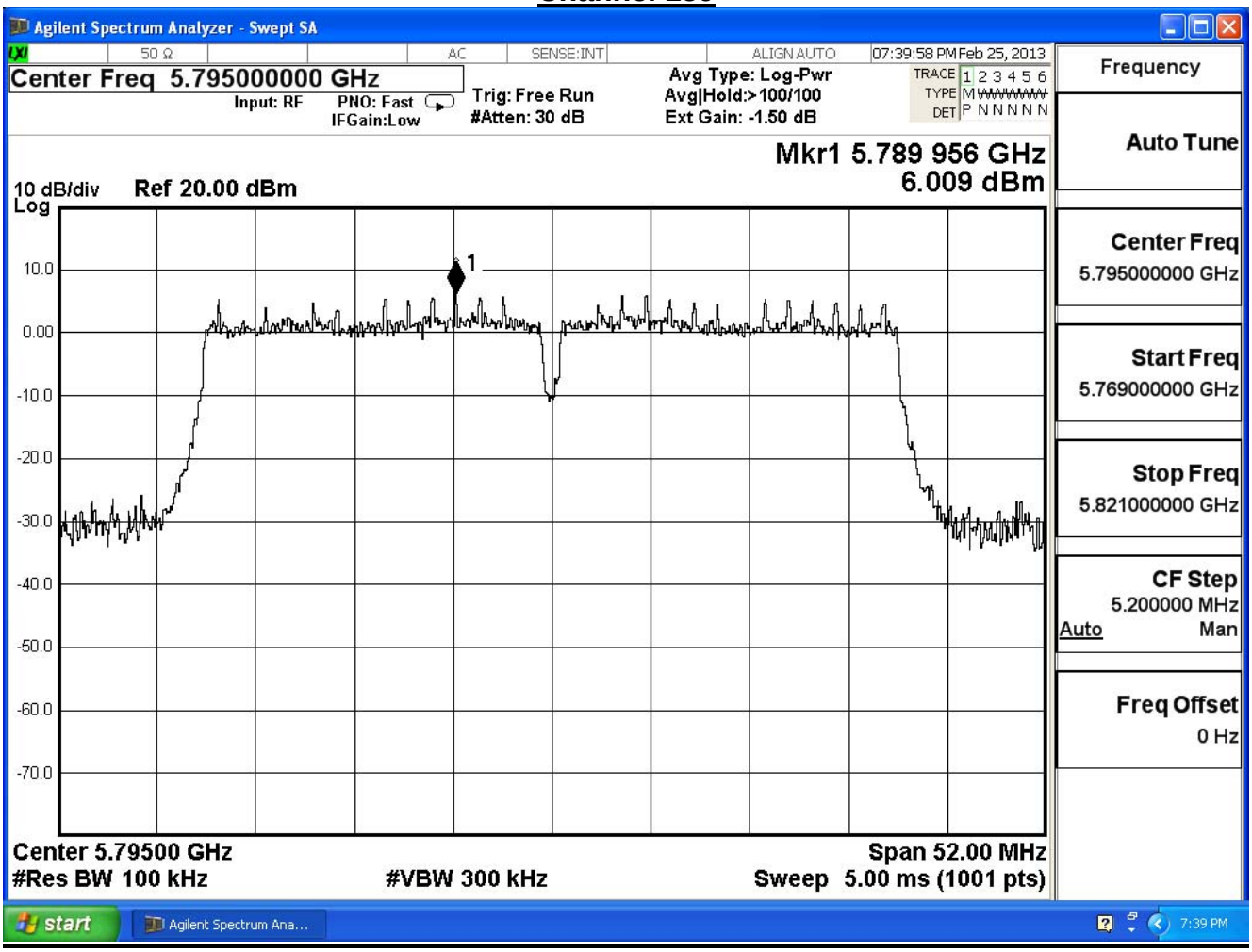
IEEE 802.11n_40MHz (ANT 0)					
Channel No.	Frequency (MHz)	Reading Level(dBm)	Measure Level(dBm)	Limit (dBm)	Result
151	5755	5.704	-9.496	≦8	Pass
159	5795	6.009	-9.191	≦8	Pass

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

Channel 151



Channel 159

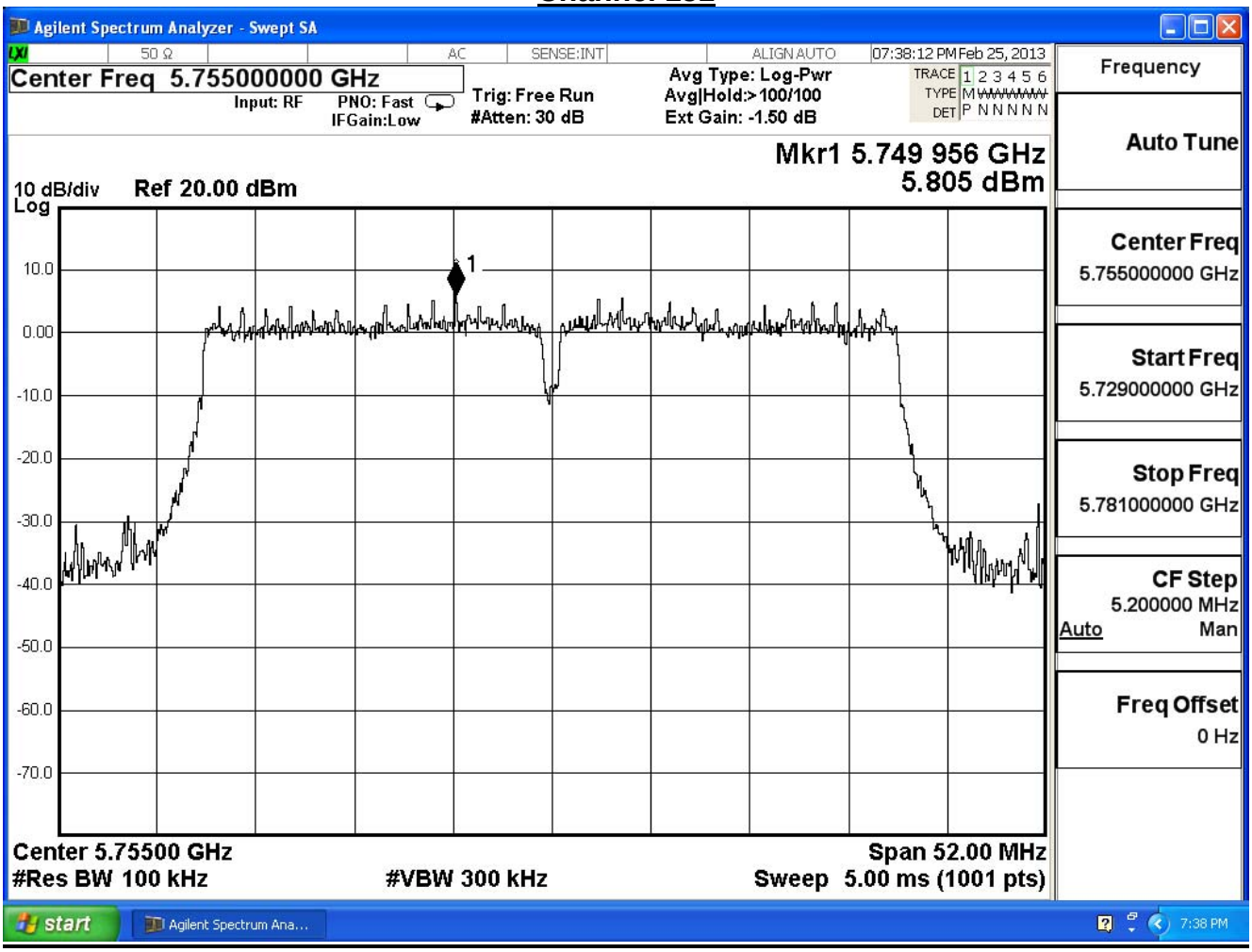

Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:39:58 PM Feb 25, 2013
Center Freq 5.795000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -1.50 dB
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Mkr1 5.789 956 GHz
6.009 dBm
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 5.79500 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 52.00 MHz
Sweep 5.00 ms (1001 pts)
Frequency
Auto Tune
Center Freq
5.795000000 GHz
Start Freq
5.769000000 GHz
Stop Freq
5.821000000 GHz
CF Step
5.200000 MHz
Auto
Man
Freq Offset
0 Hz
start
Agilent Spectrum Ana...
7:39 PM

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2013/02/25	Test Site	SR7

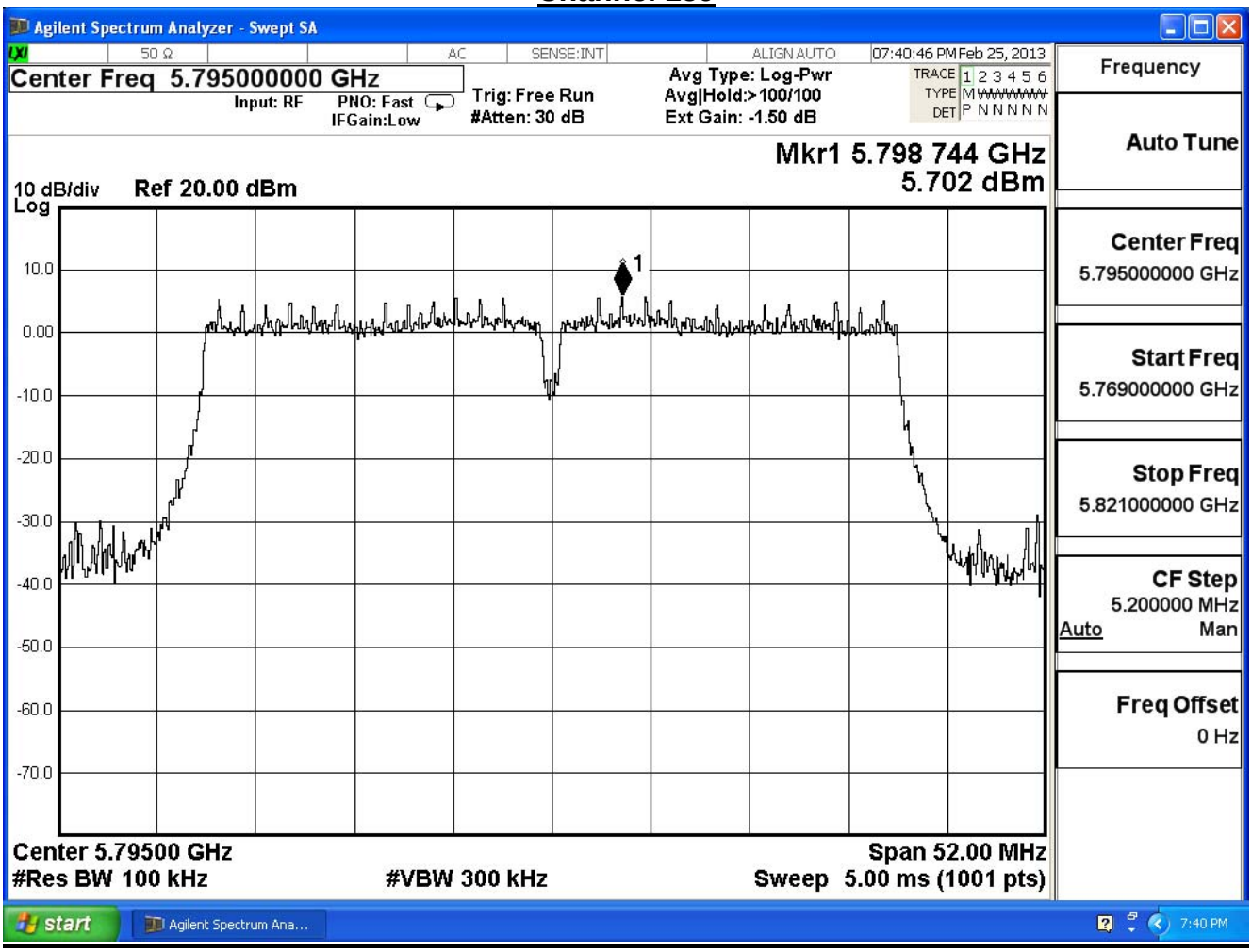
IEEE 802.11n_40MHz (ANT 1)					
Channel No.	Frequency (MHz)	Reading Level(dBm)	Measure Level(dBm)	Limit (dBm)	Result
151	5755	5.805	-9.395	≦8	Pass
159	5795	5.702	-9.498	≦8	Pass

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

Channel 151



Channel 159


Agilent Spectrum Analyzer - Swept SA
50 Ω
AC
SENSE:INT
ALIGN AUTO
07:40:46 PM Feb 25, 2013
Center Freq 5.795000000 GHz
Input: RF
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
Avg Type: Log-Pwr
Avg|Hold:>100/100
Ext Gain: -1.50 dB
TRACE 1 2 3 4 5 6
TYPE M
DET P N N N N N
Mkr1 5.798 744 GHz
5.702 dBm
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 5.79500 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 52.00 MHz
Sweep 5.00 ms (1001 pts)
Frequency
Auto Tune
Center Freq
5.795000000 GHz
Start Freq
5.769000000 GHz
Stop Freq
5.821000000 GHz
CF Step
5.200000 MHz
Auto
Man
Freq Offset
0 Hz
start
Agilent Spectrum Ana...
7:40 PM

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2013/02/25	Test Site	SR7

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

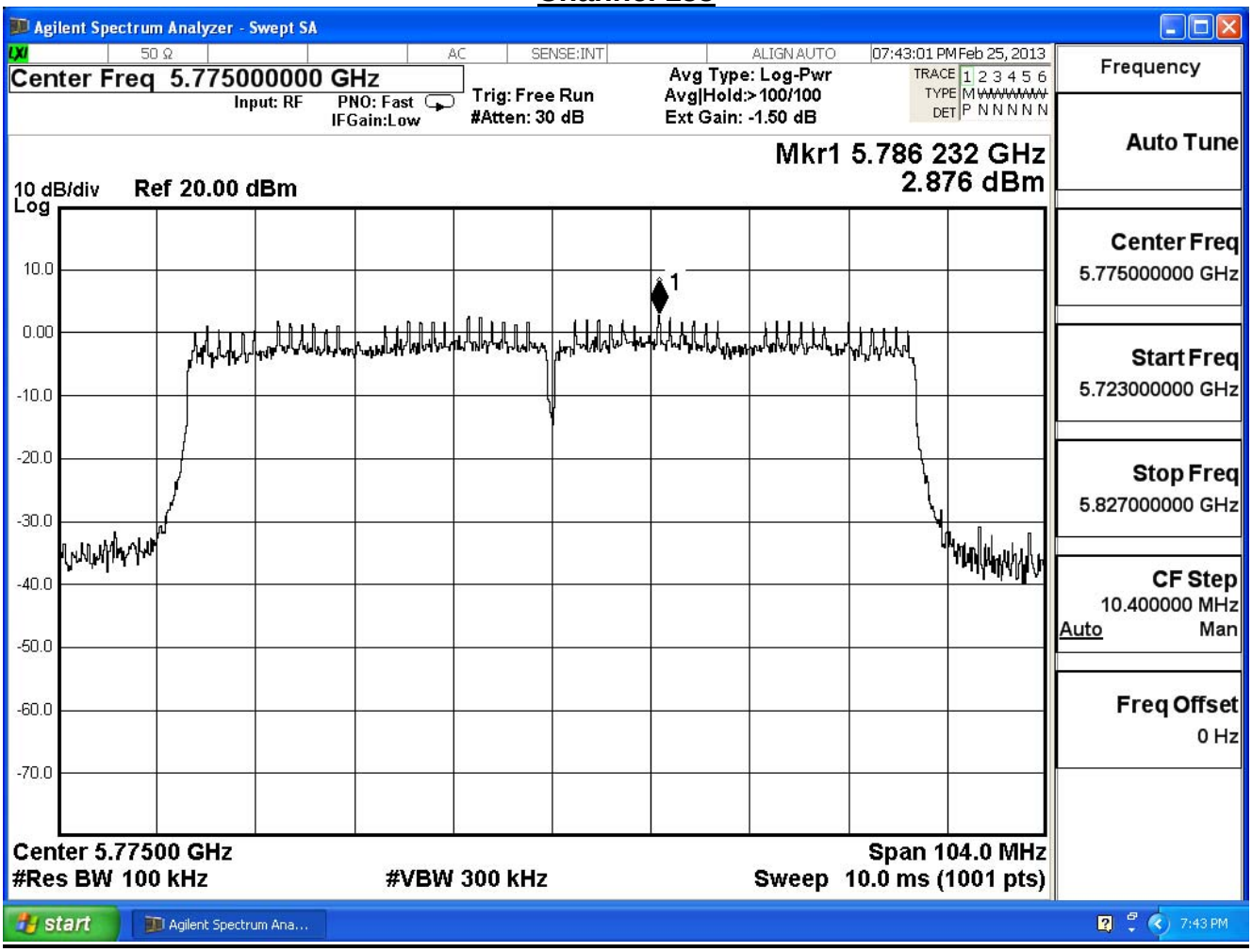
Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
151	5755	-6.43	≦8	Pass
159	5795	-6.33	≦8	Pass

Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2013/02/25	Test Site	SR7

IEEE 802.11ac_80MHz (ANT 0)					
Channel No.	Frequency (MHz)	Reading Level(dBm)	Measure Level(dBm)	Limit (dBm)	Result
155	5775	2.876	-12.324	≦8	Pass

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

Channel 155

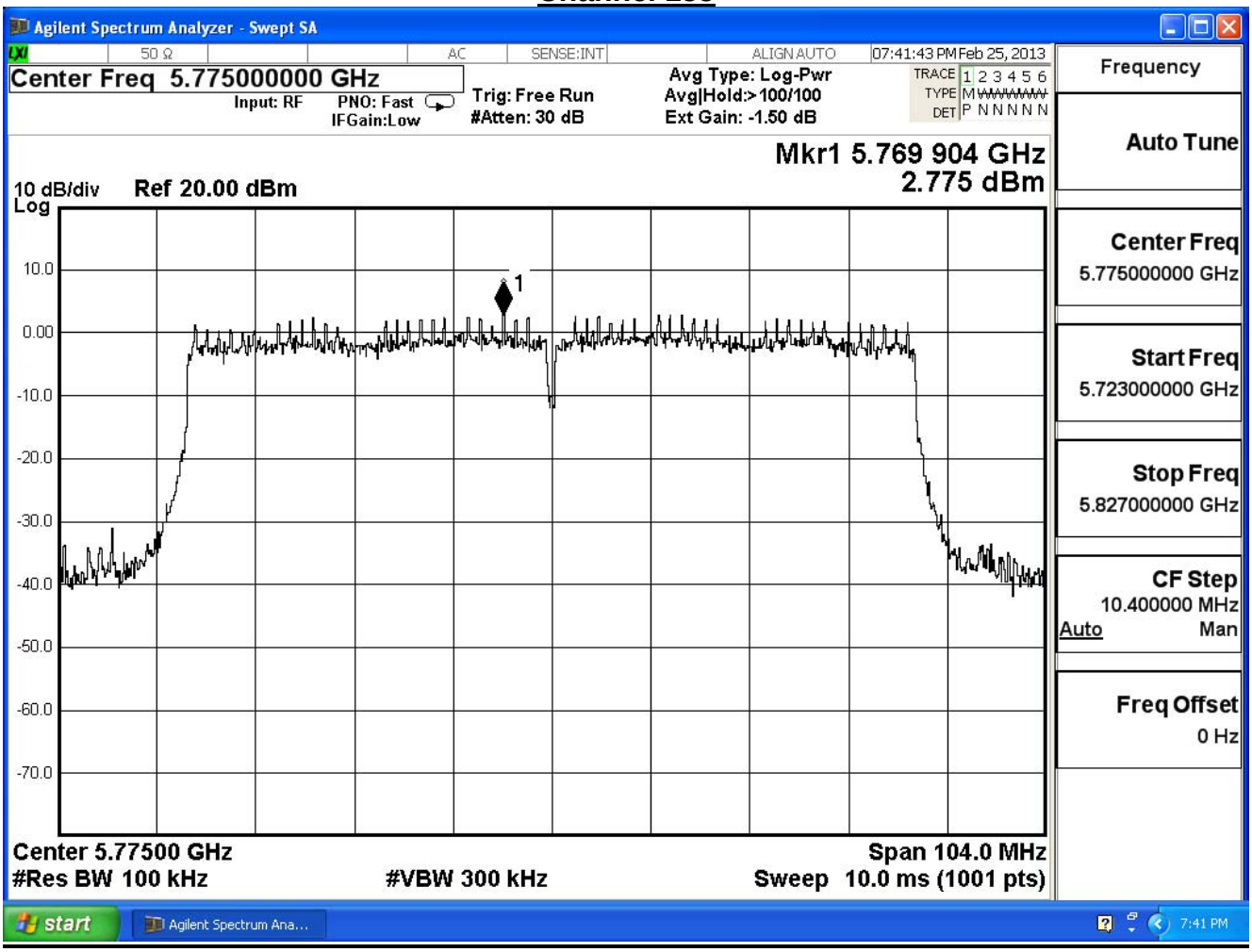


Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2013/02/25	Test Site	SR7

IEEE 802.11ac_80MHz (ANT 1)					
Channel No.	Frequency (MHz)	Reading Level(dBm)	Measure Level(dBm)	Limit (dBm)	Result
155	5775	2.775	-12.425	≦8	Pass

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

Channel 155



Product	Dual-band Wireless-AC1200 Gigabit Router		
Test Item	Power Density		
Test Mode	Transmit		
Date of Test	2013/02/25	Test Site	SR7

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

Channel No.	Frequency (MHz)	Measure Level (dBm)	Limit (dBm)	Result
155	5775	-9.36	≦8	Pass