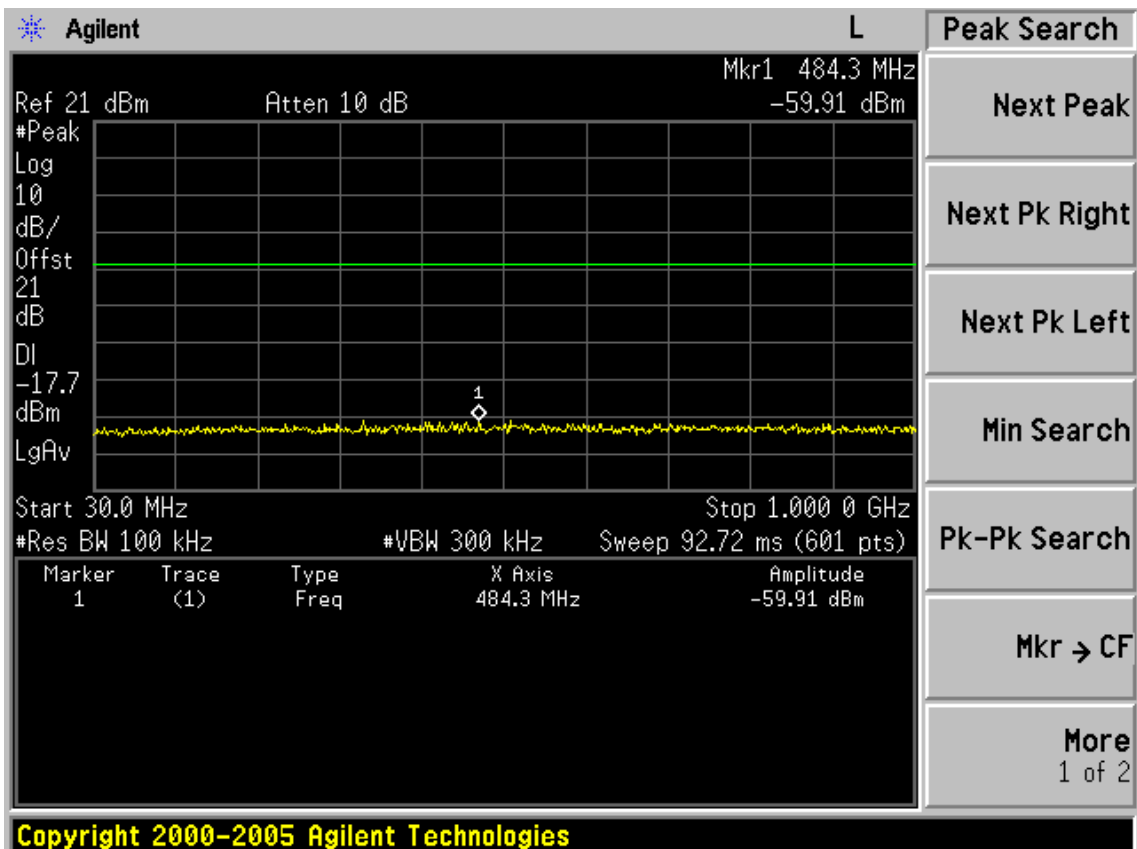
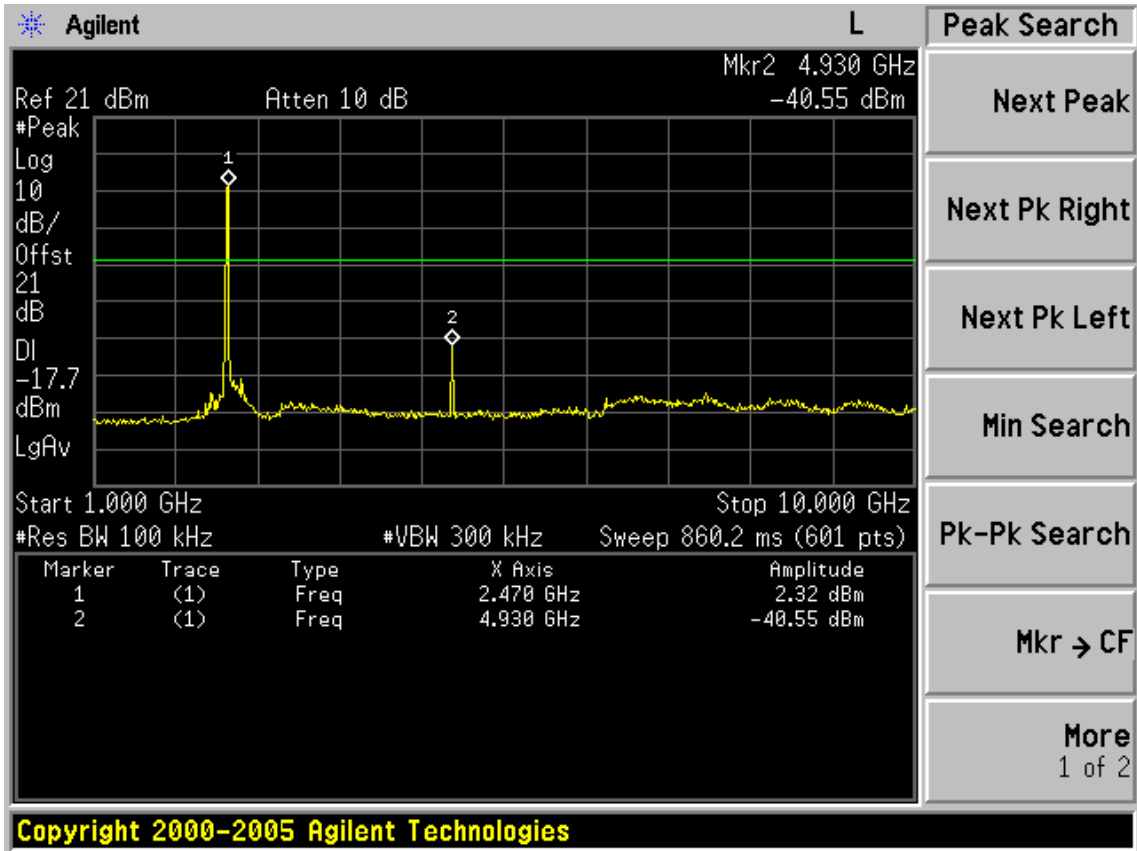
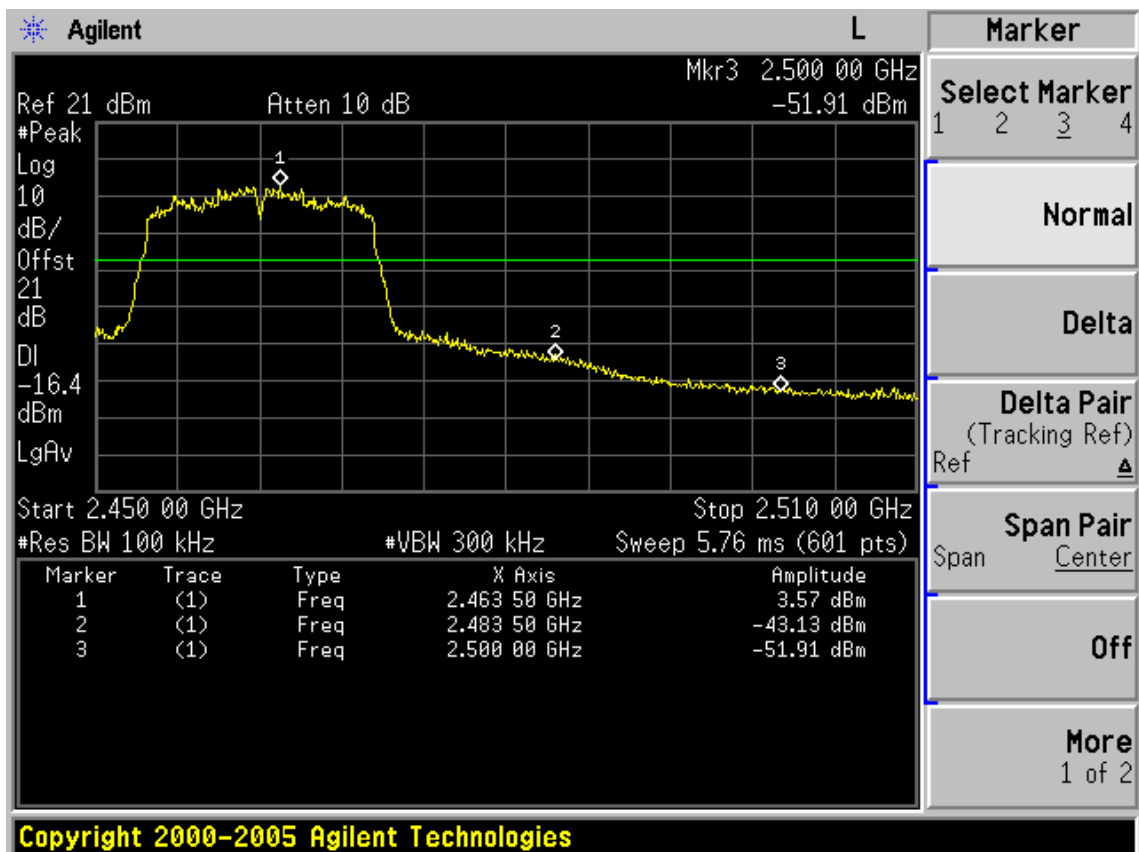
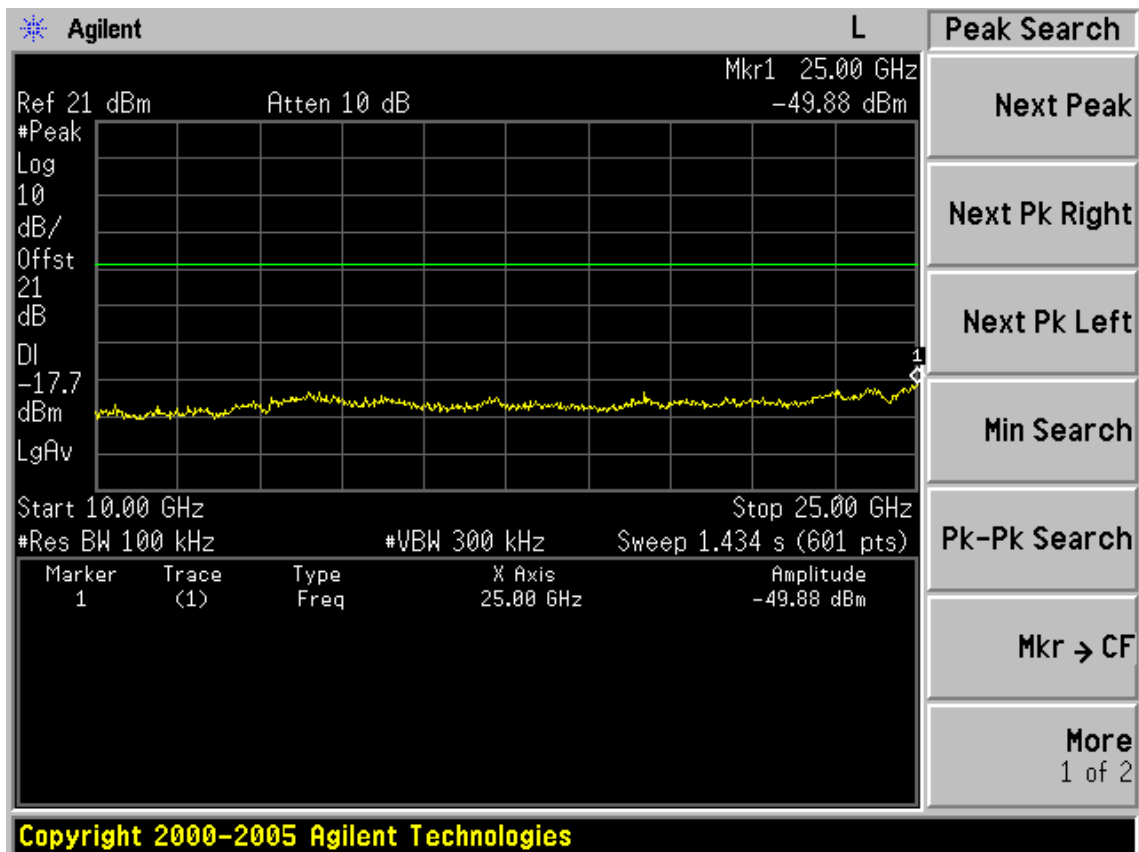


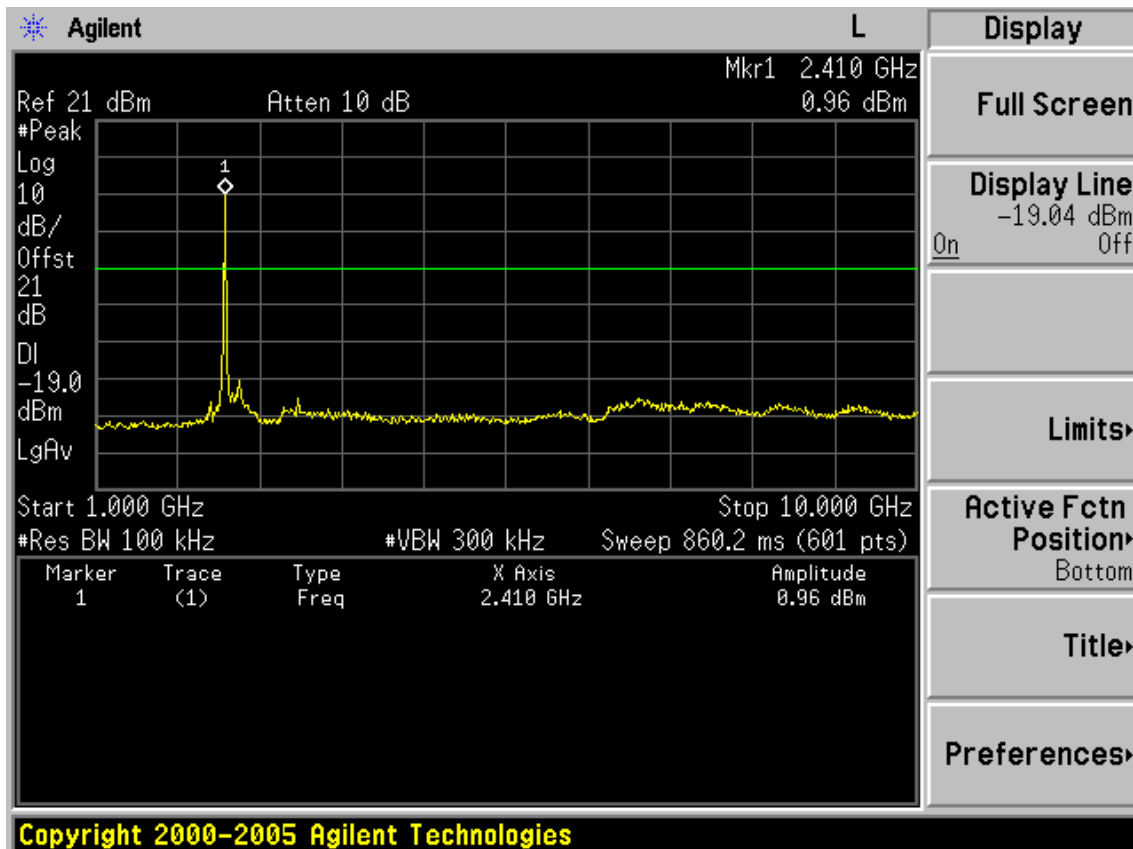
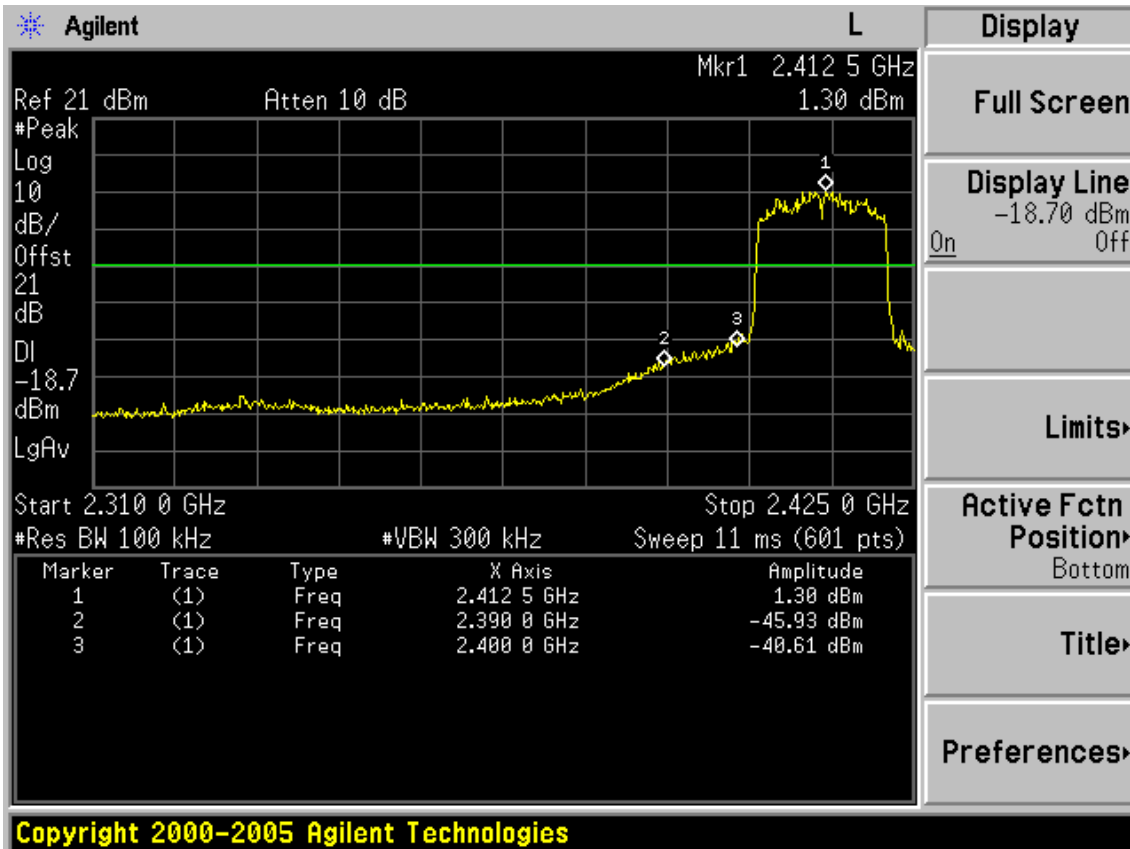
Test CH11: 2462MHz

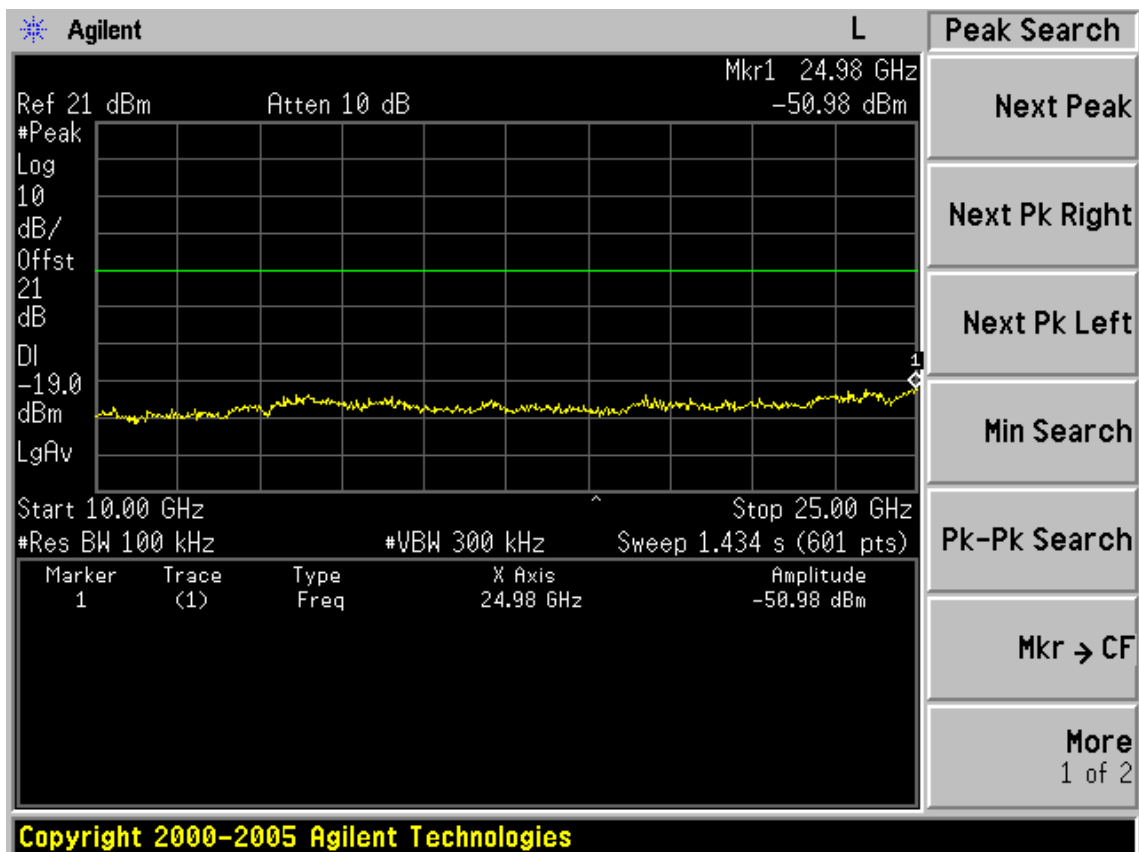
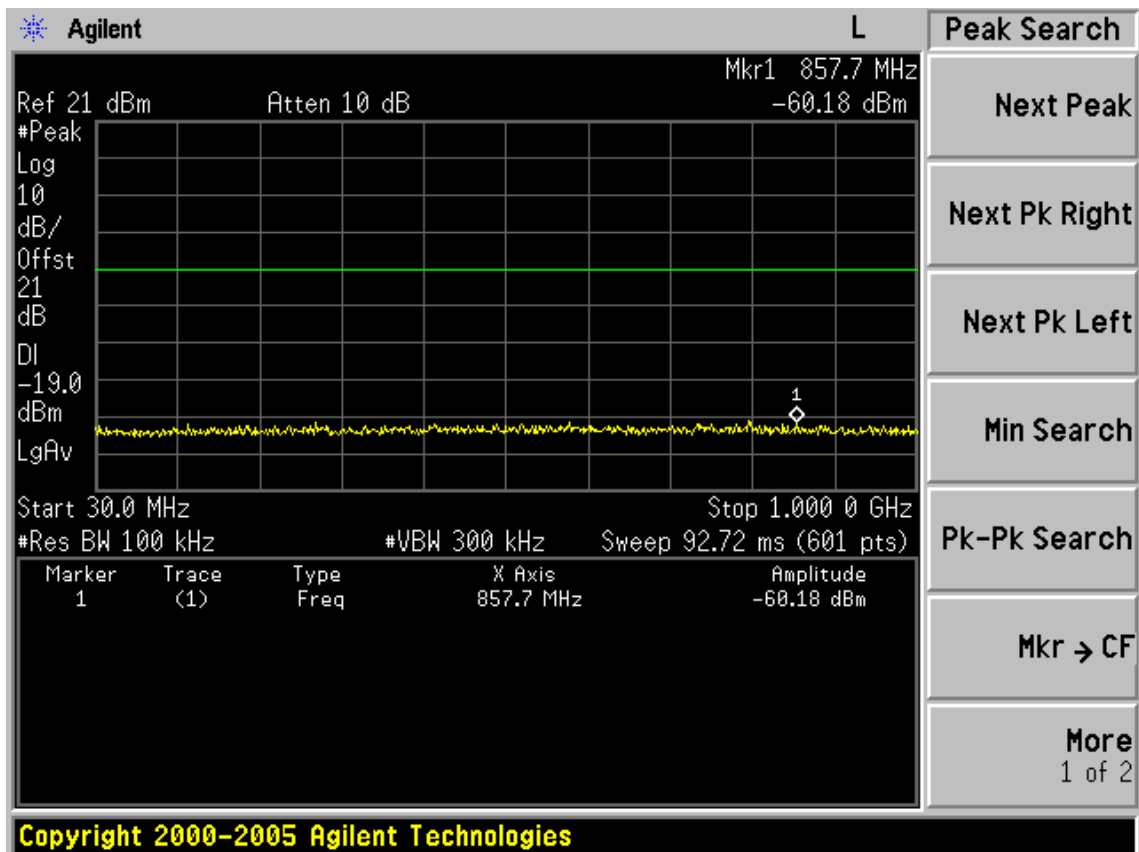




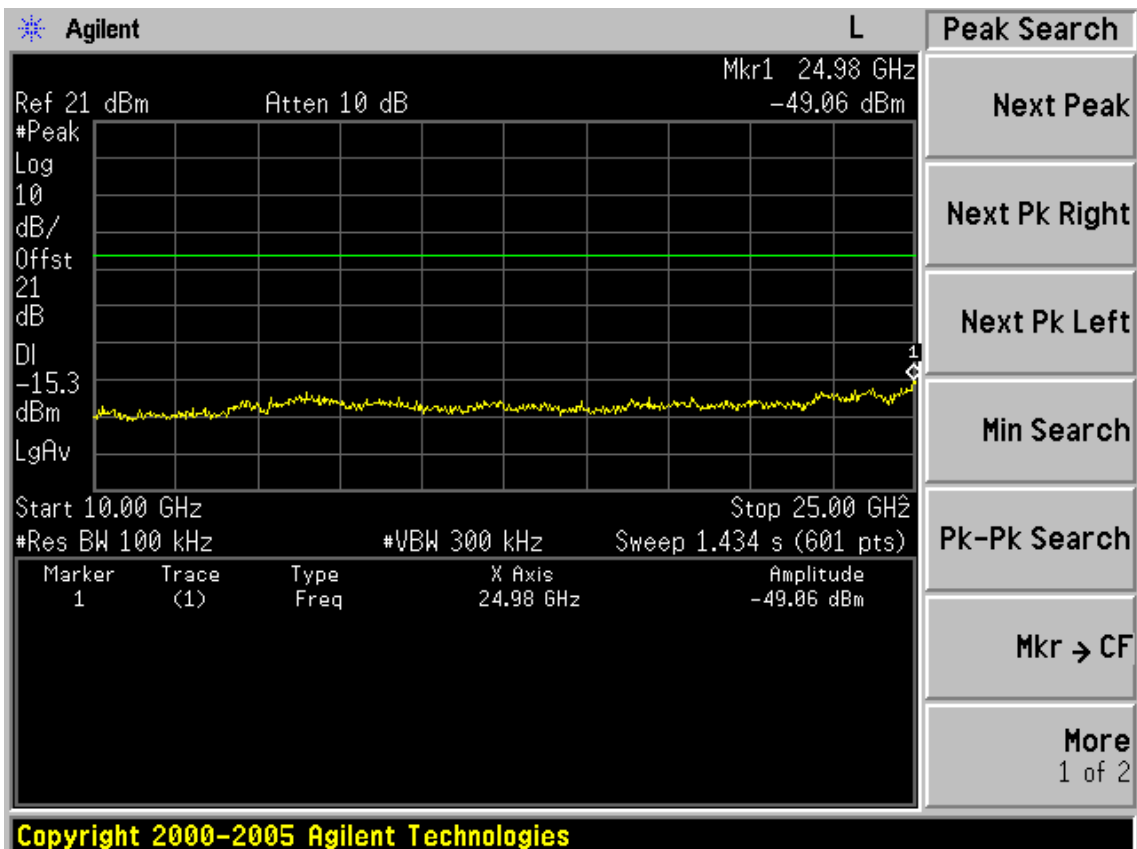
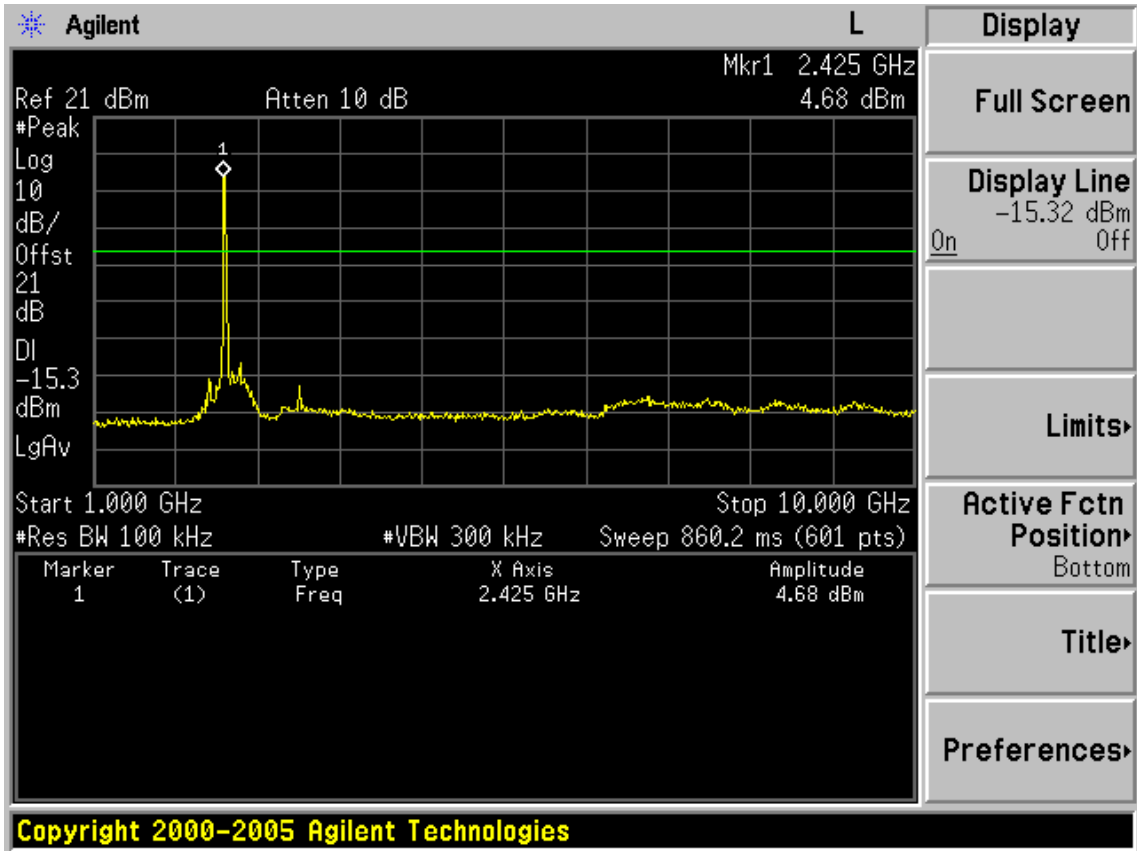
Test Mode: IEEE 802.11n HT20 TX

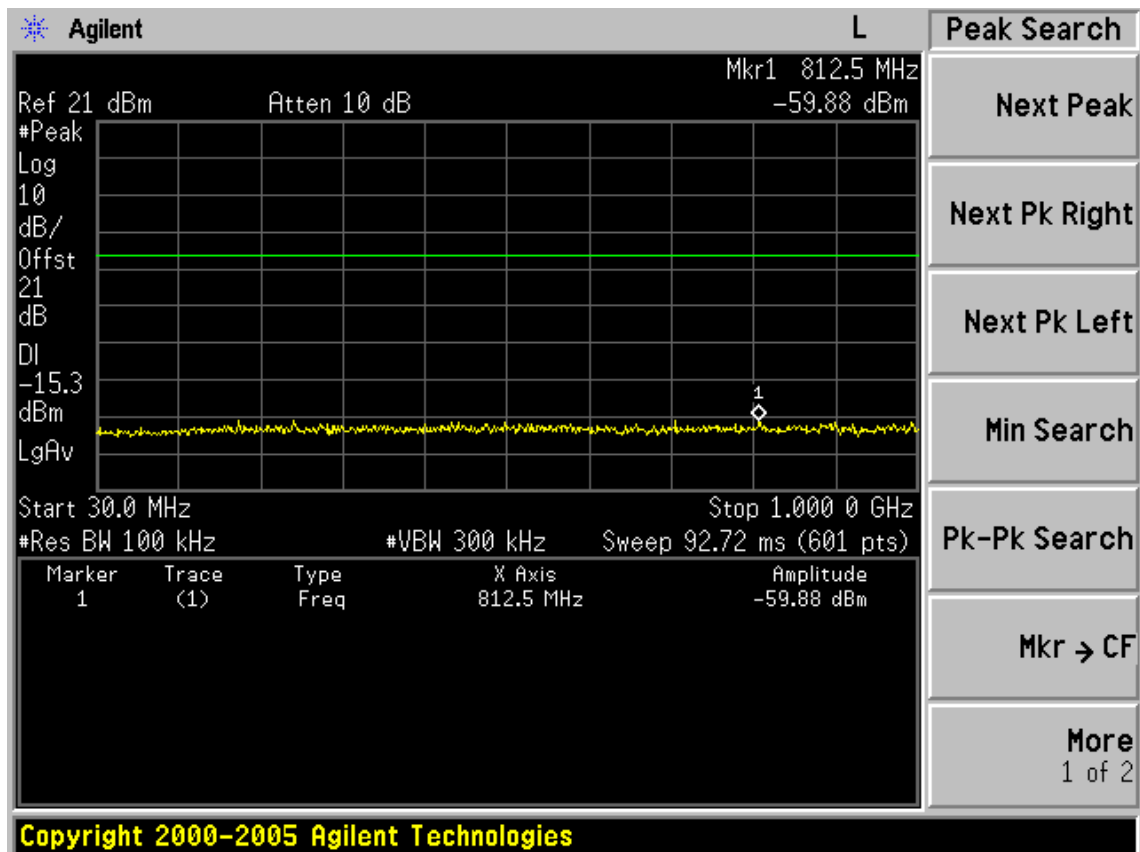
Test CH1: 2412MHz



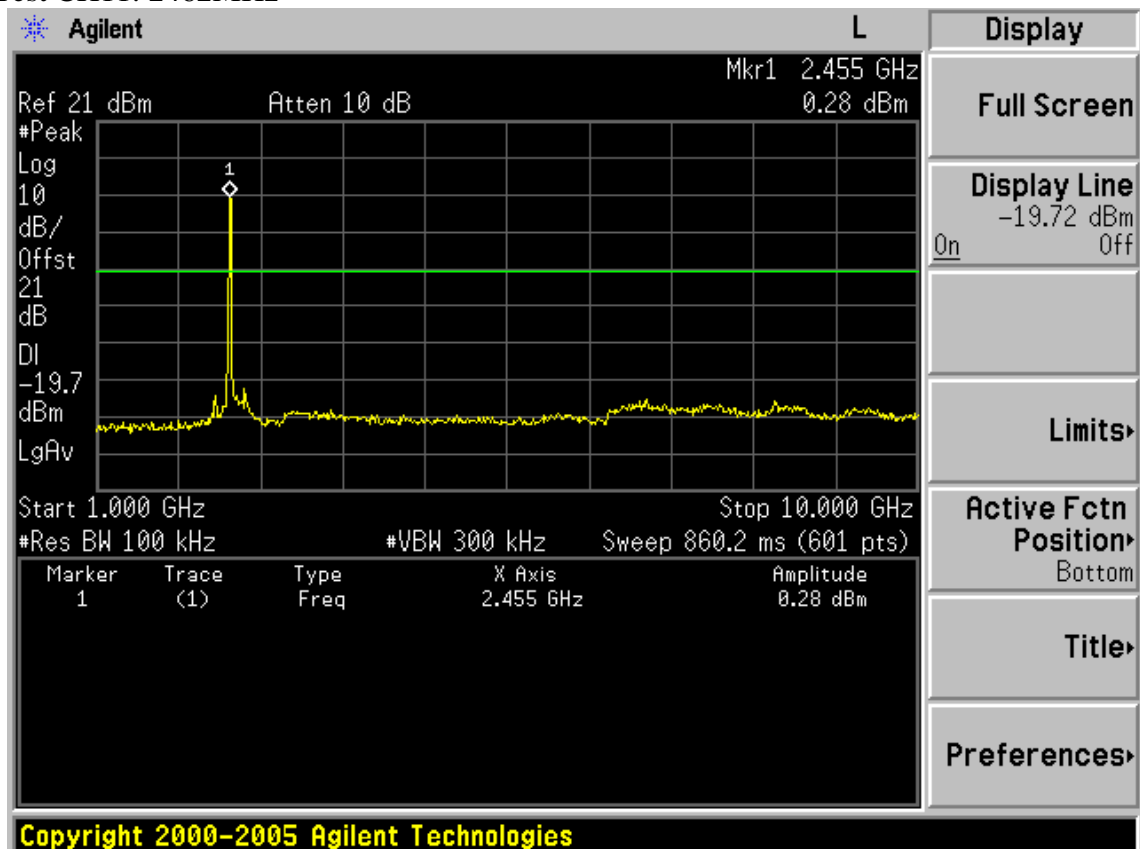


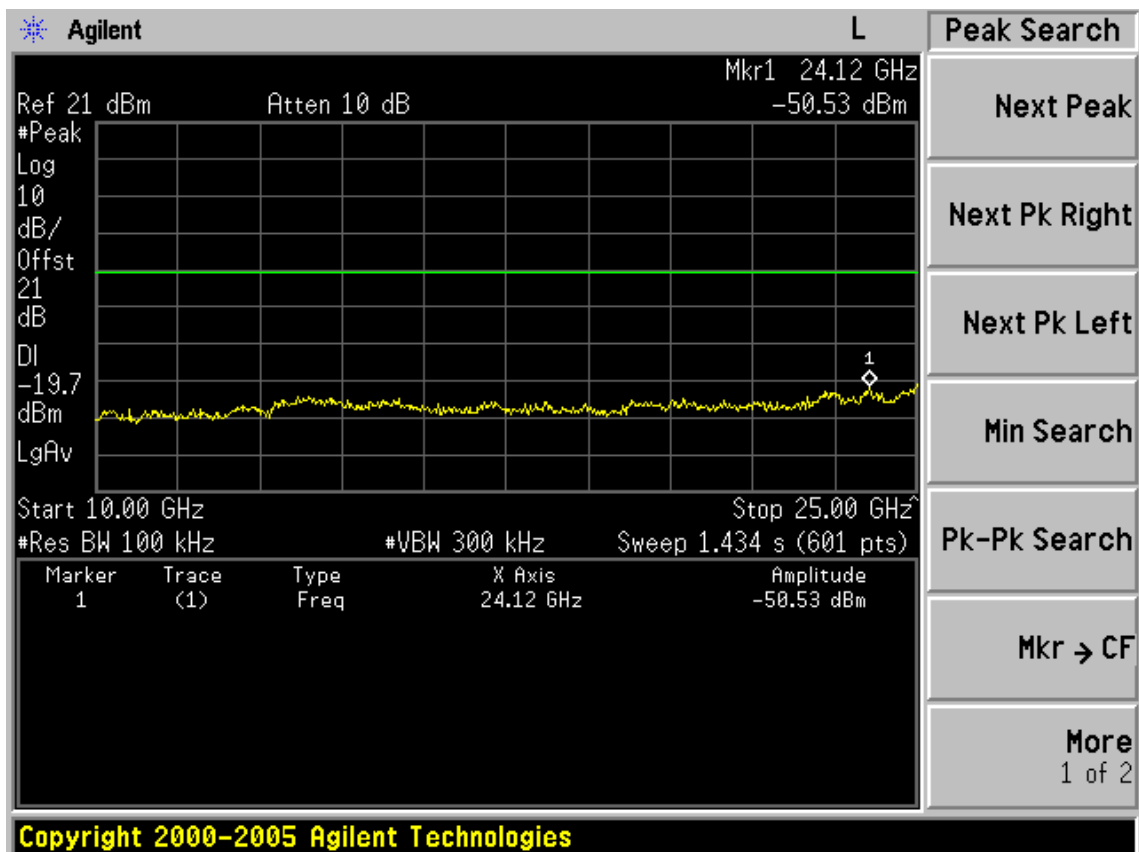
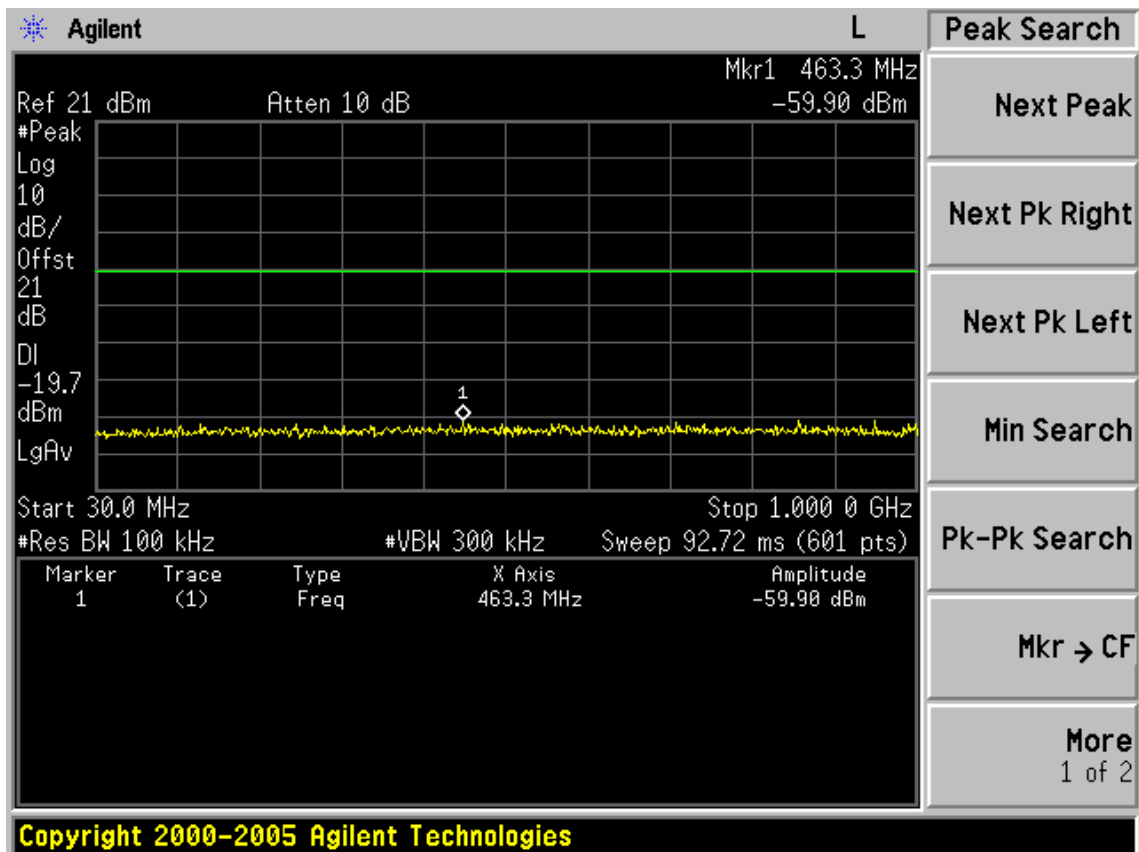
Test CH6: 2437MHz

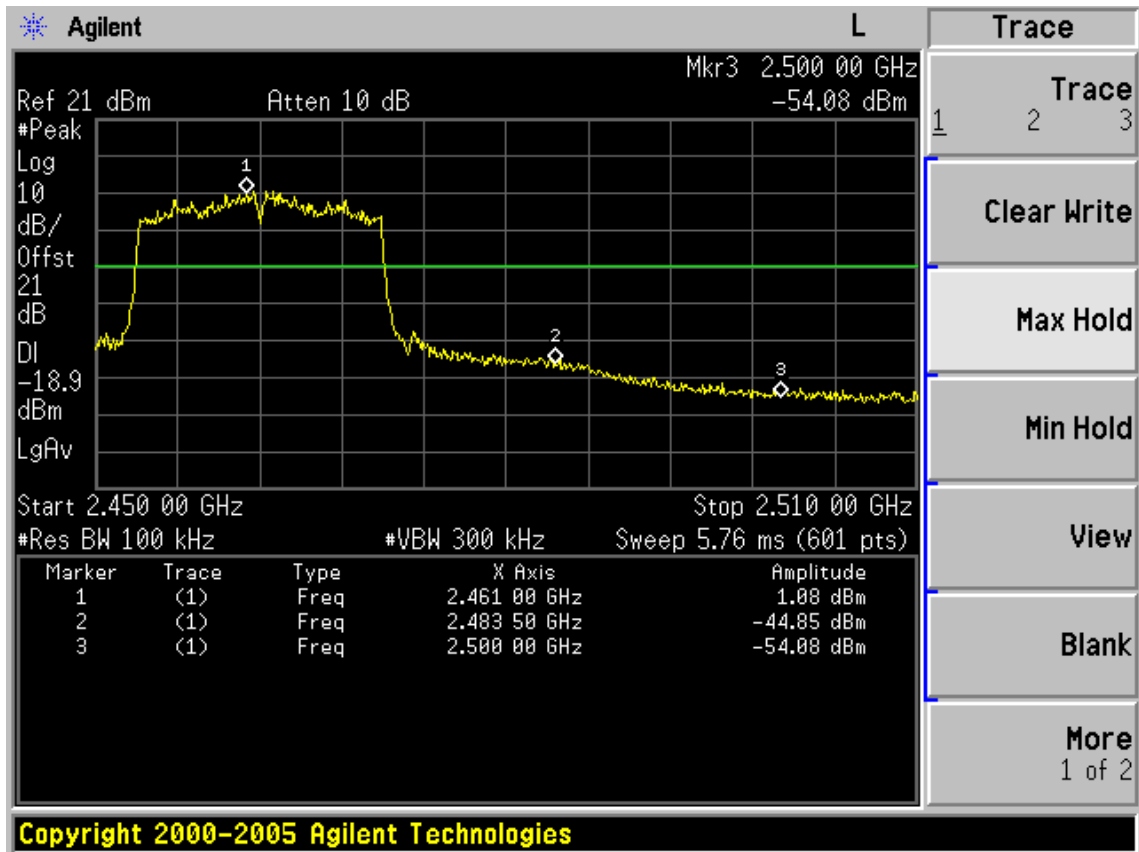




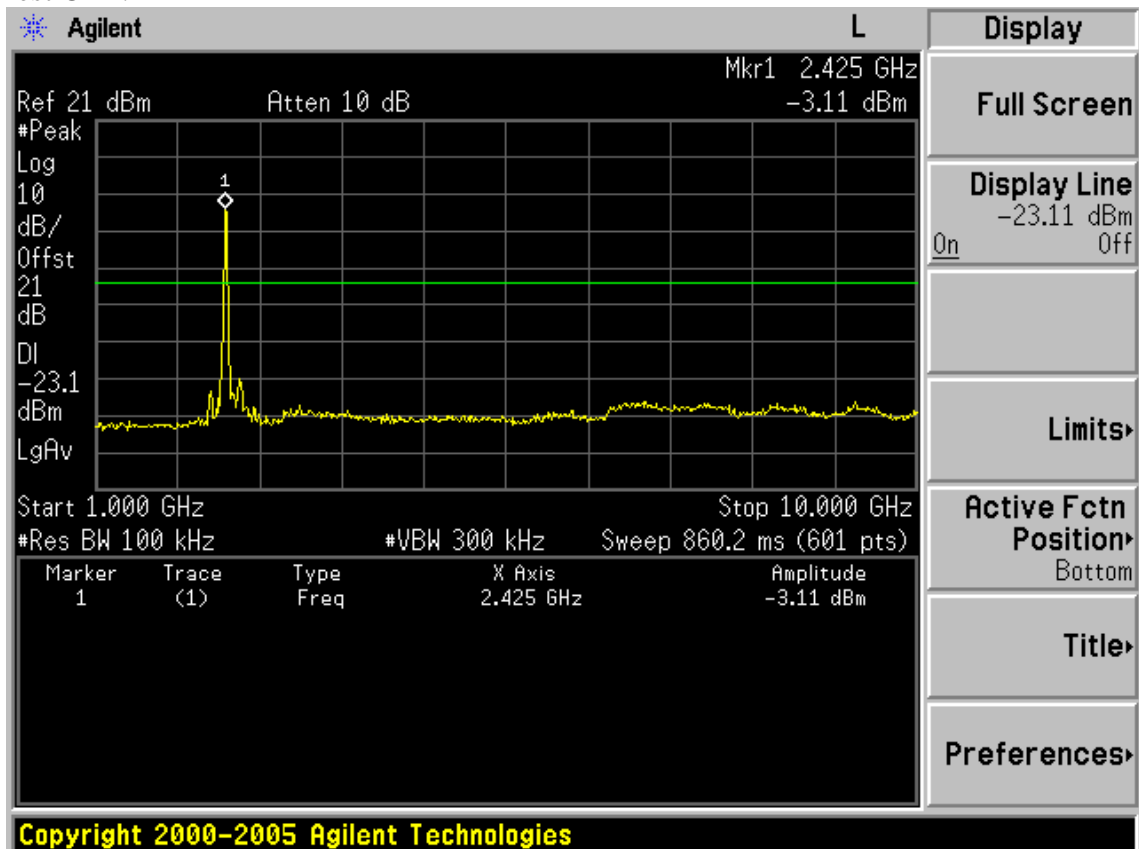
Test CH11: 2462MHz

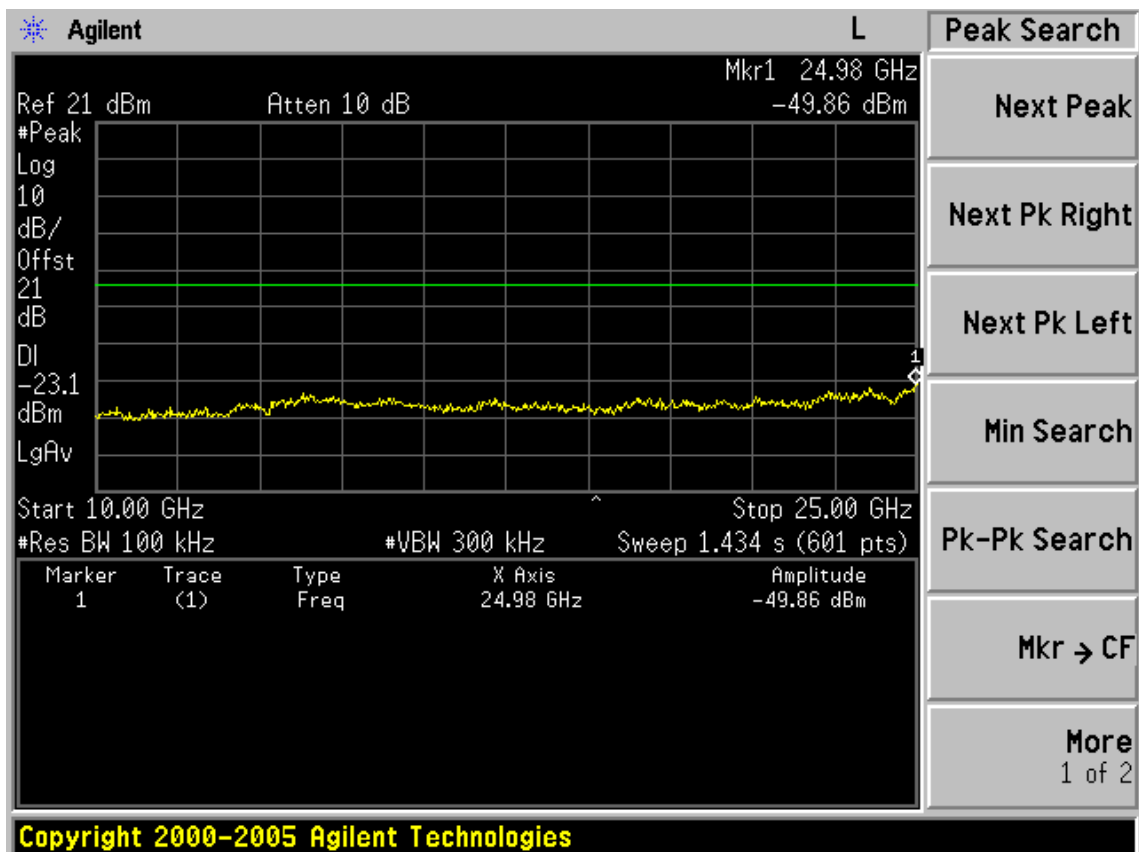
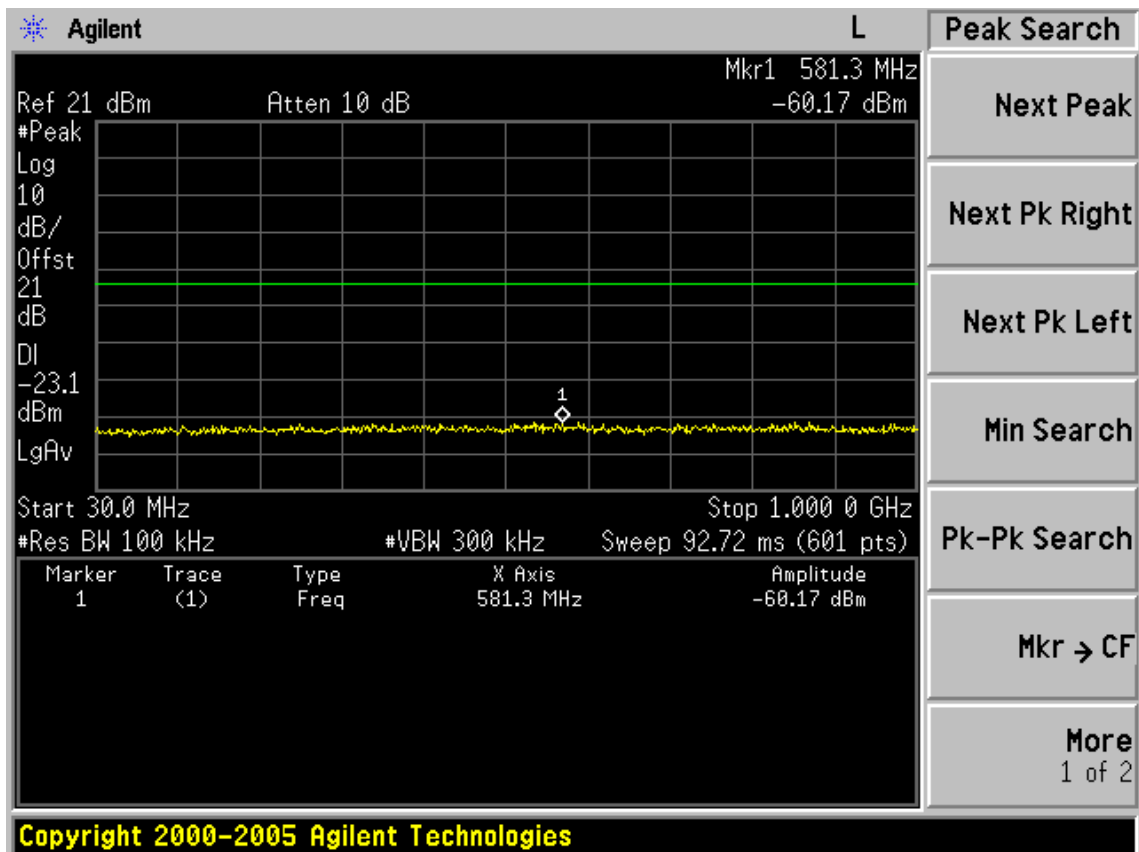


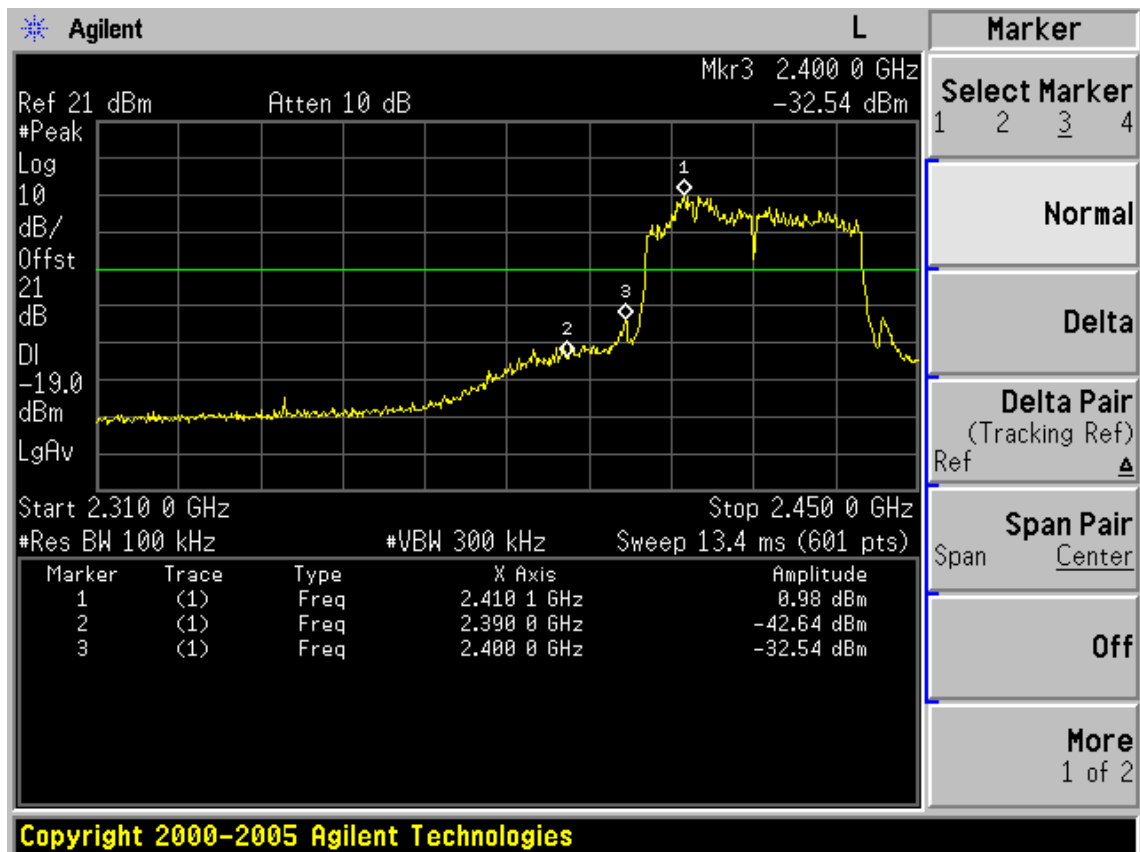




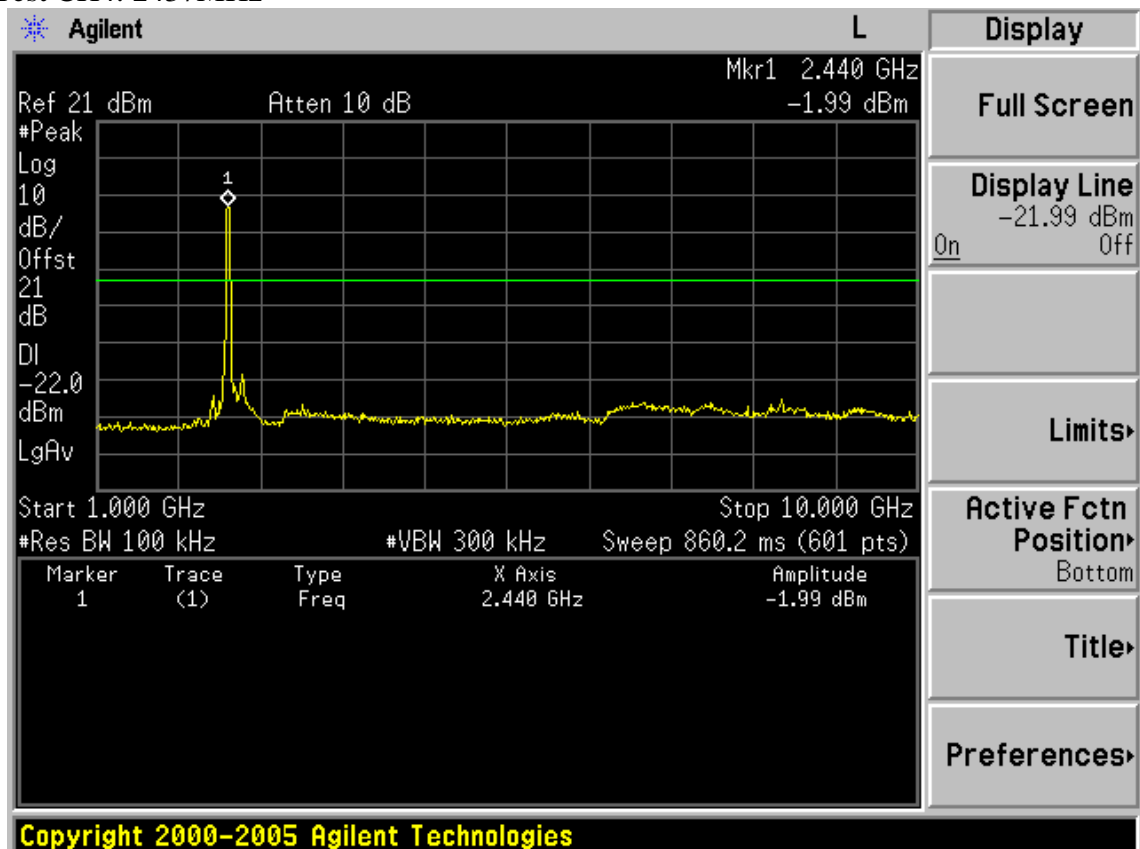
Test Mode: IEEE 802.11n HT40 TX
 Test CH1: 2422MHz

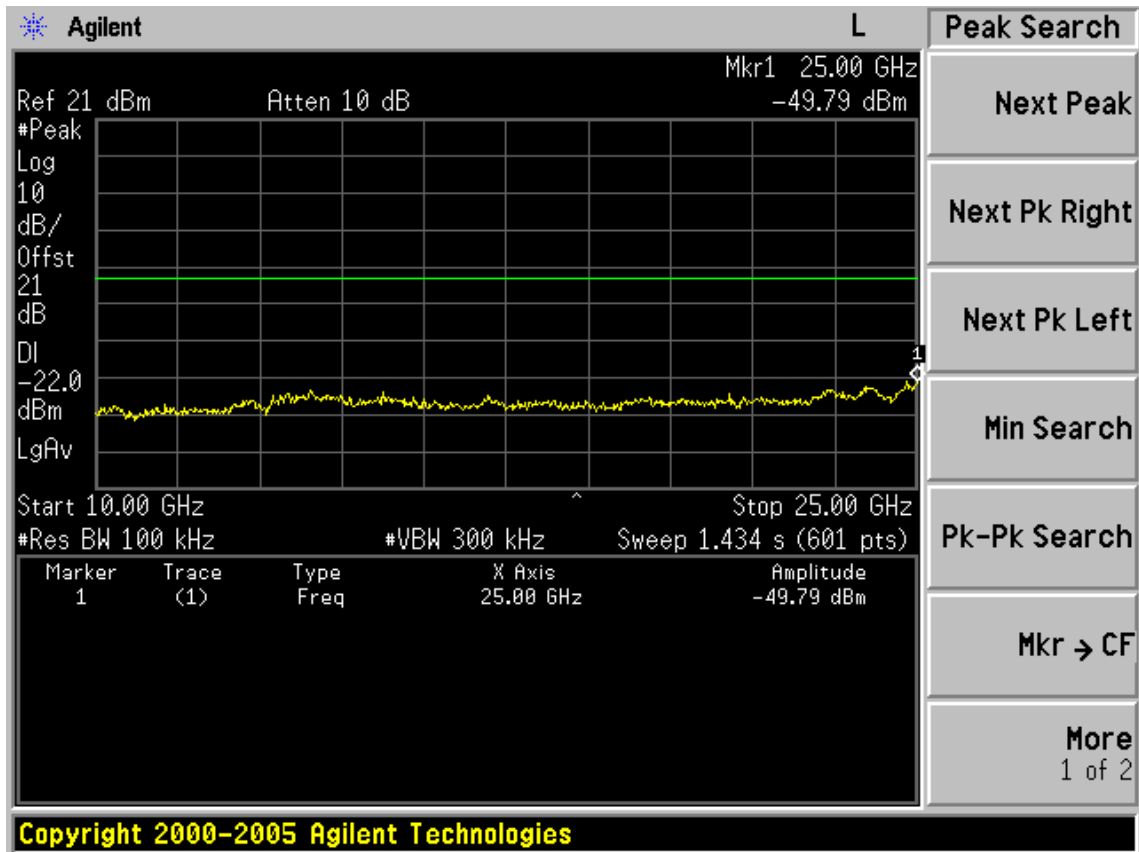
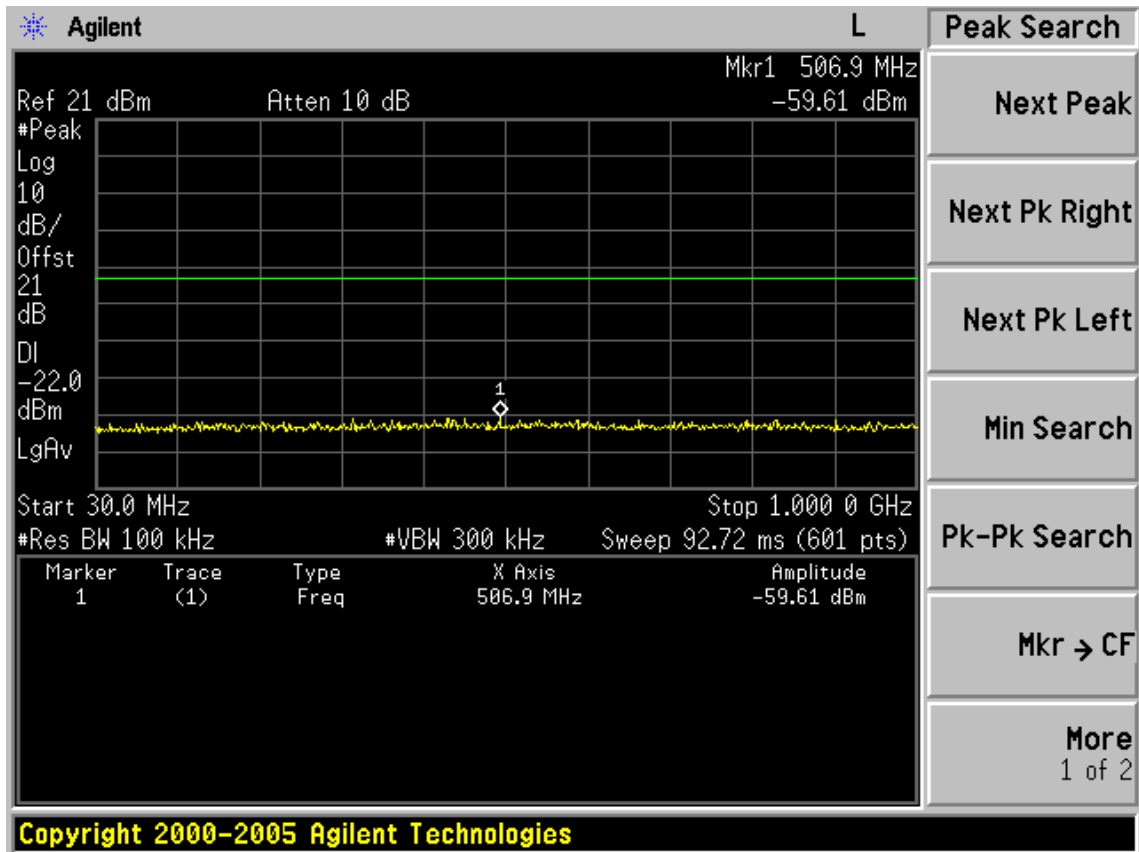




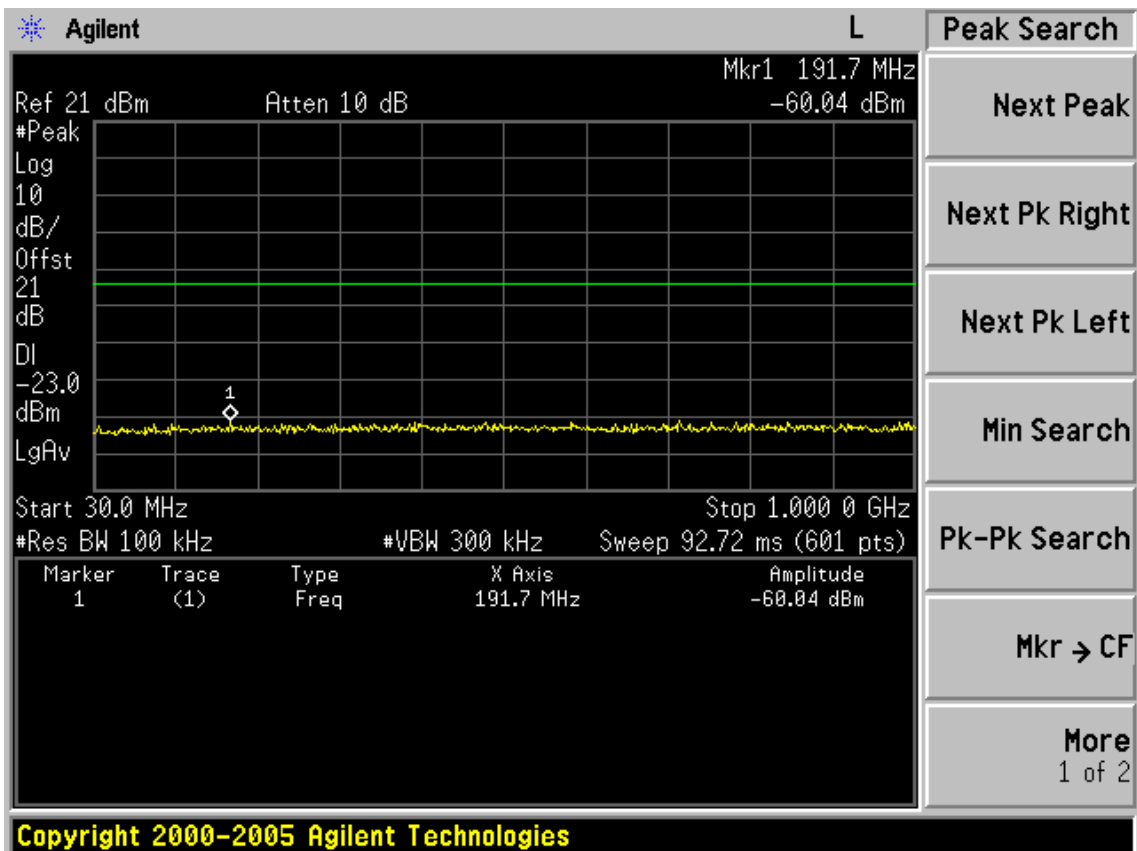
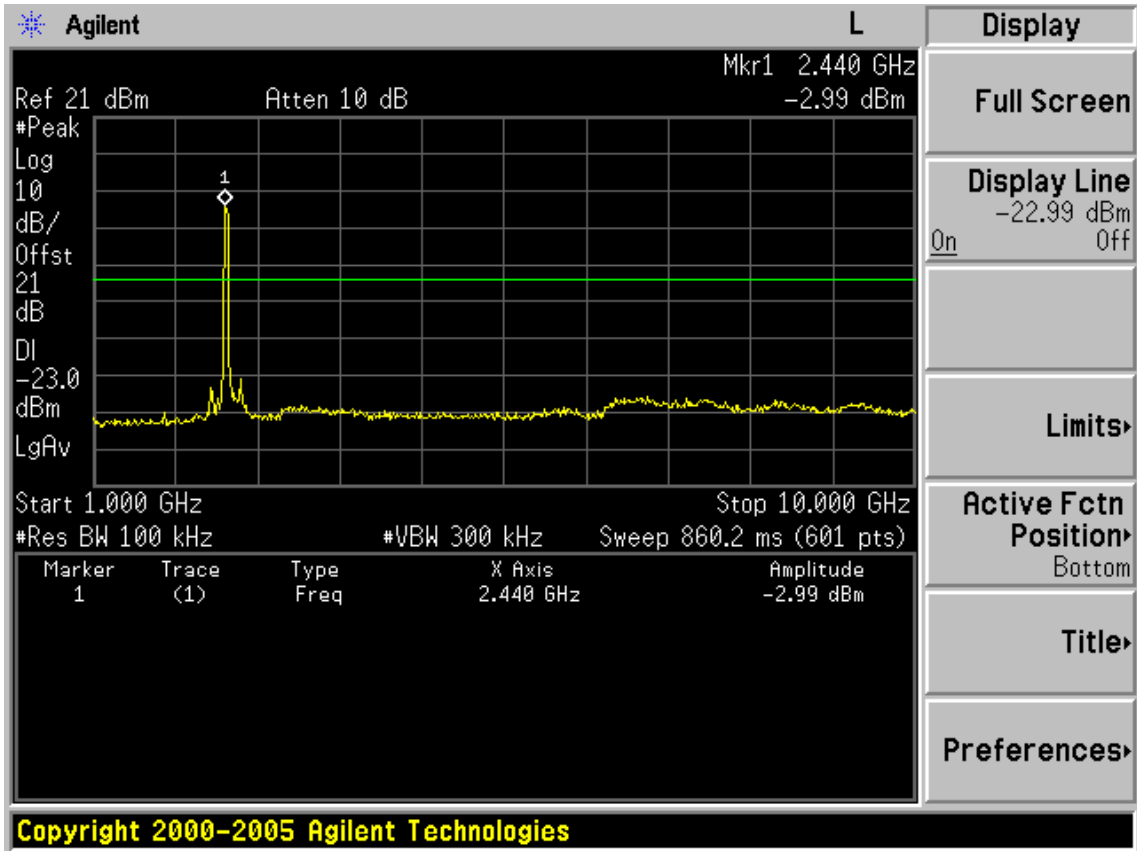


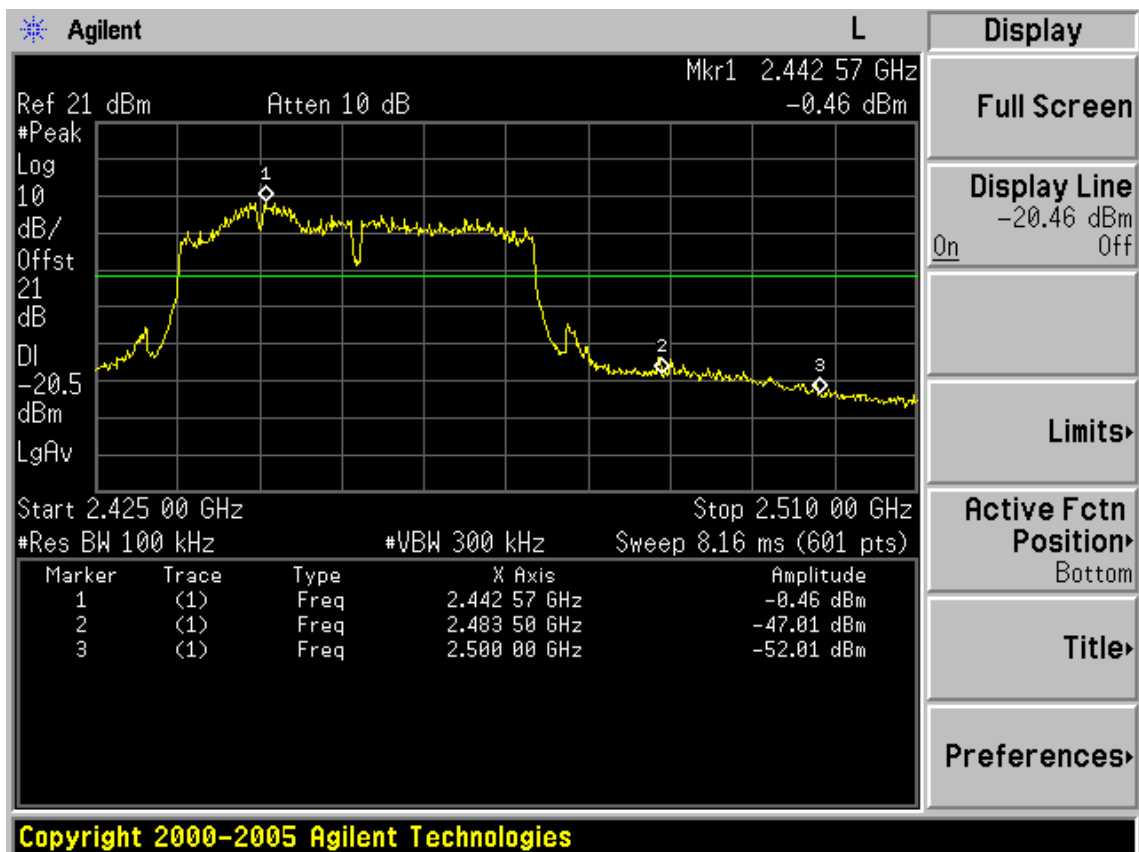
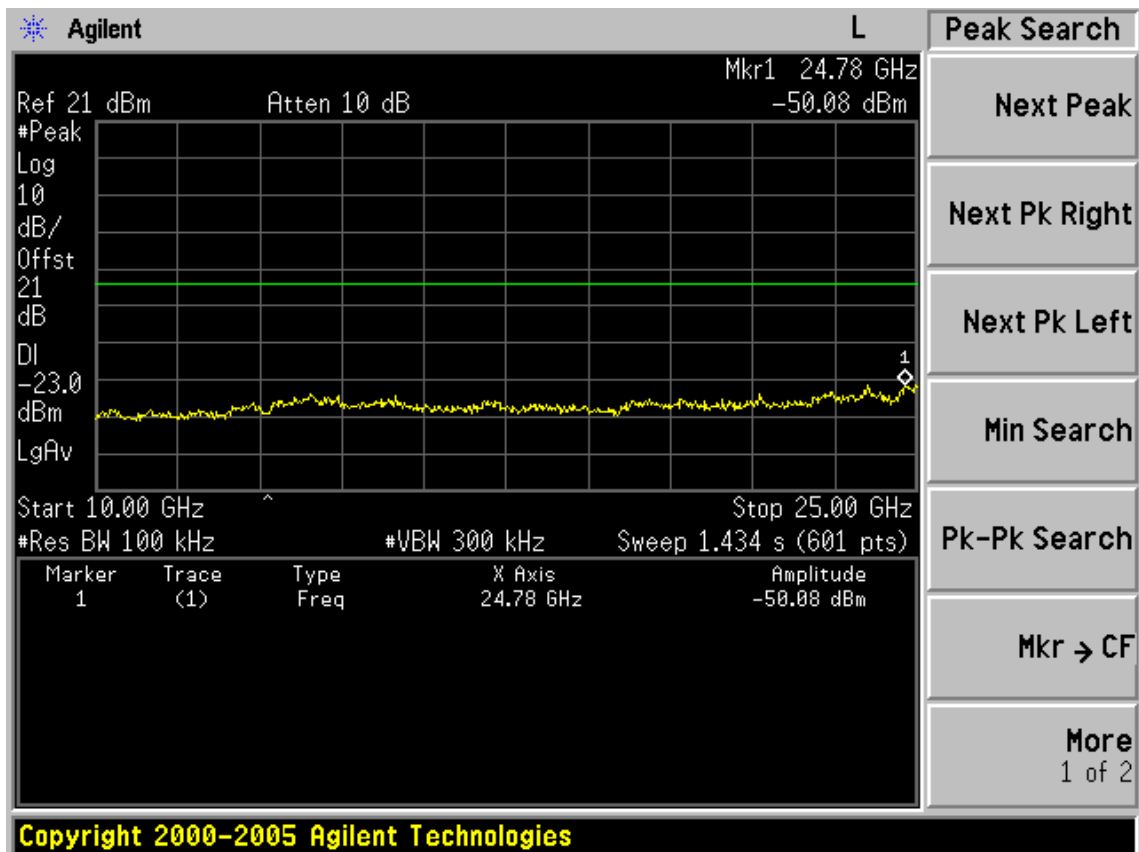
Test CH4: 2437MHz





Test CH7: 2452MHz

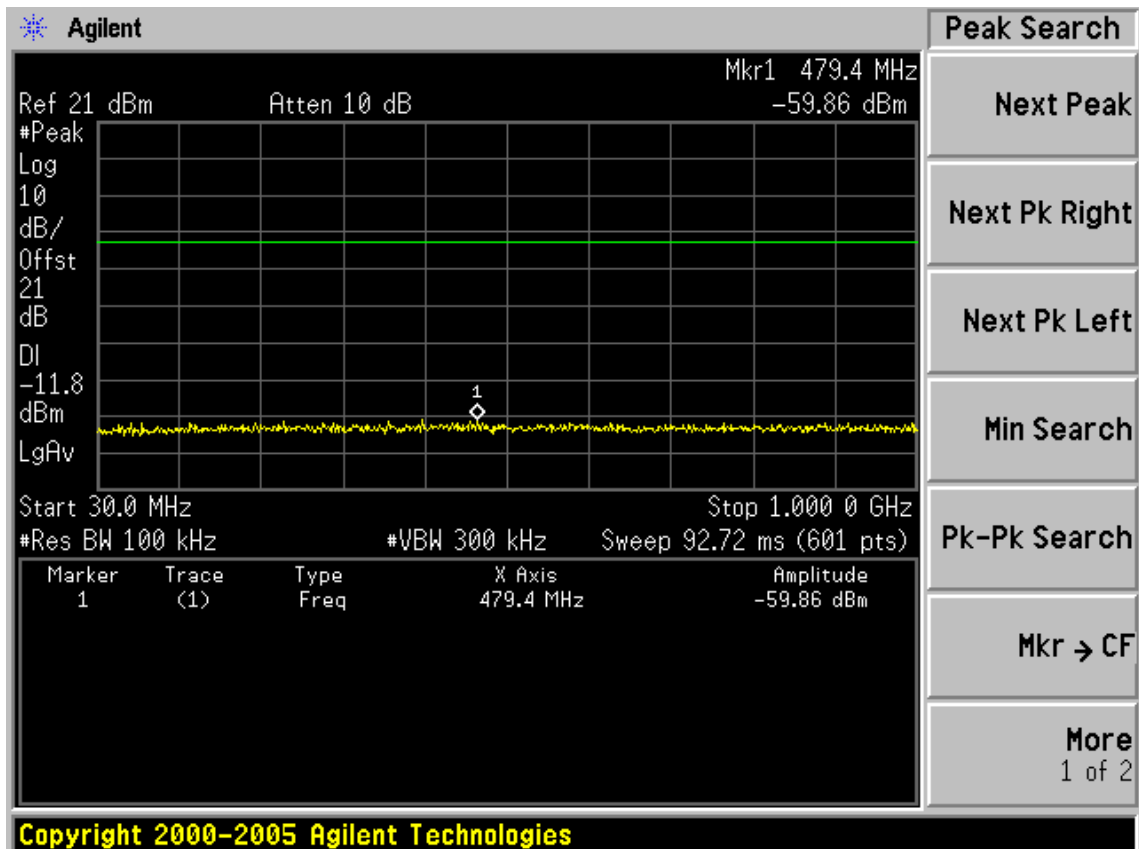
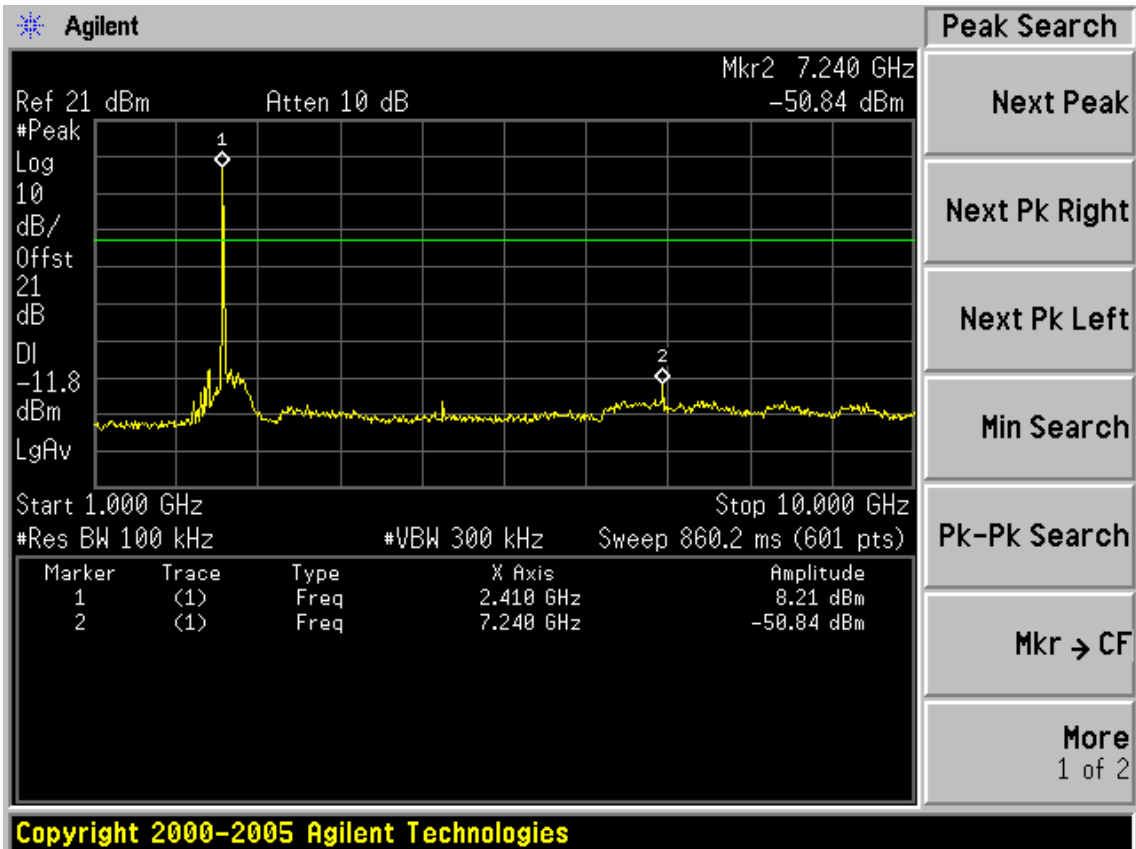


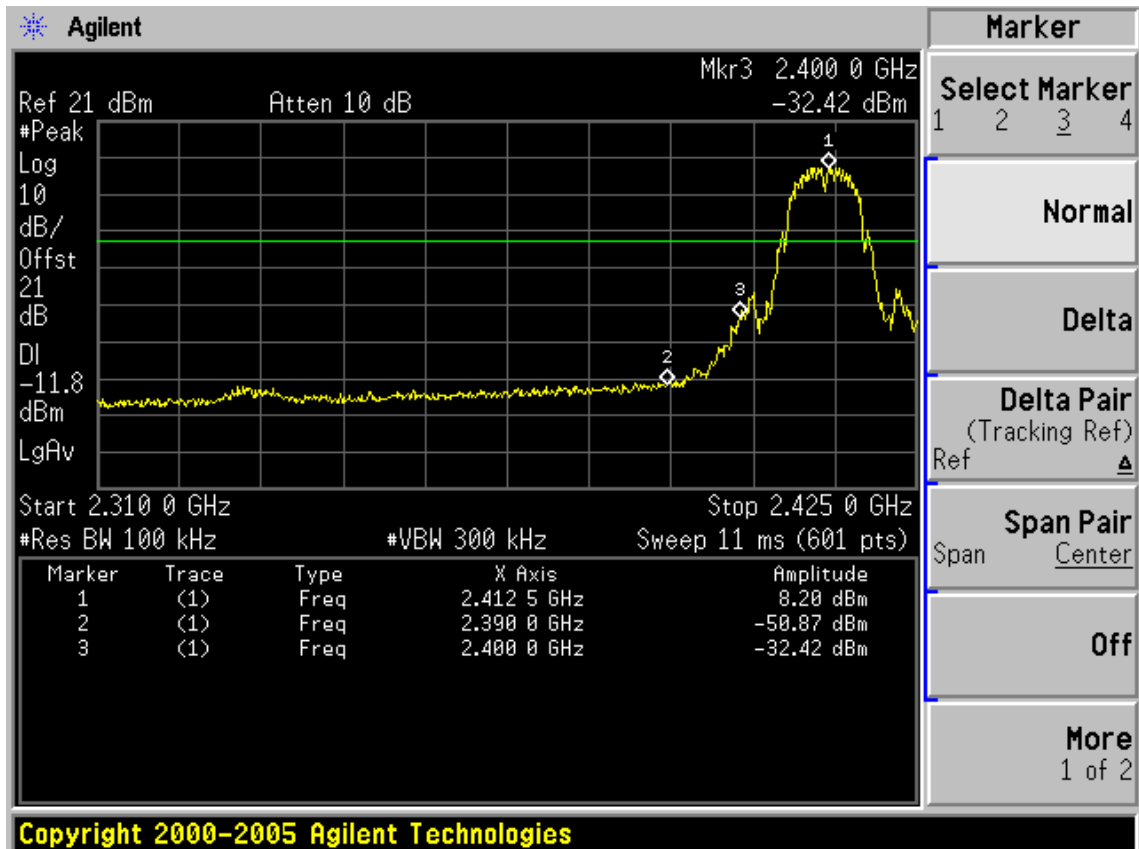
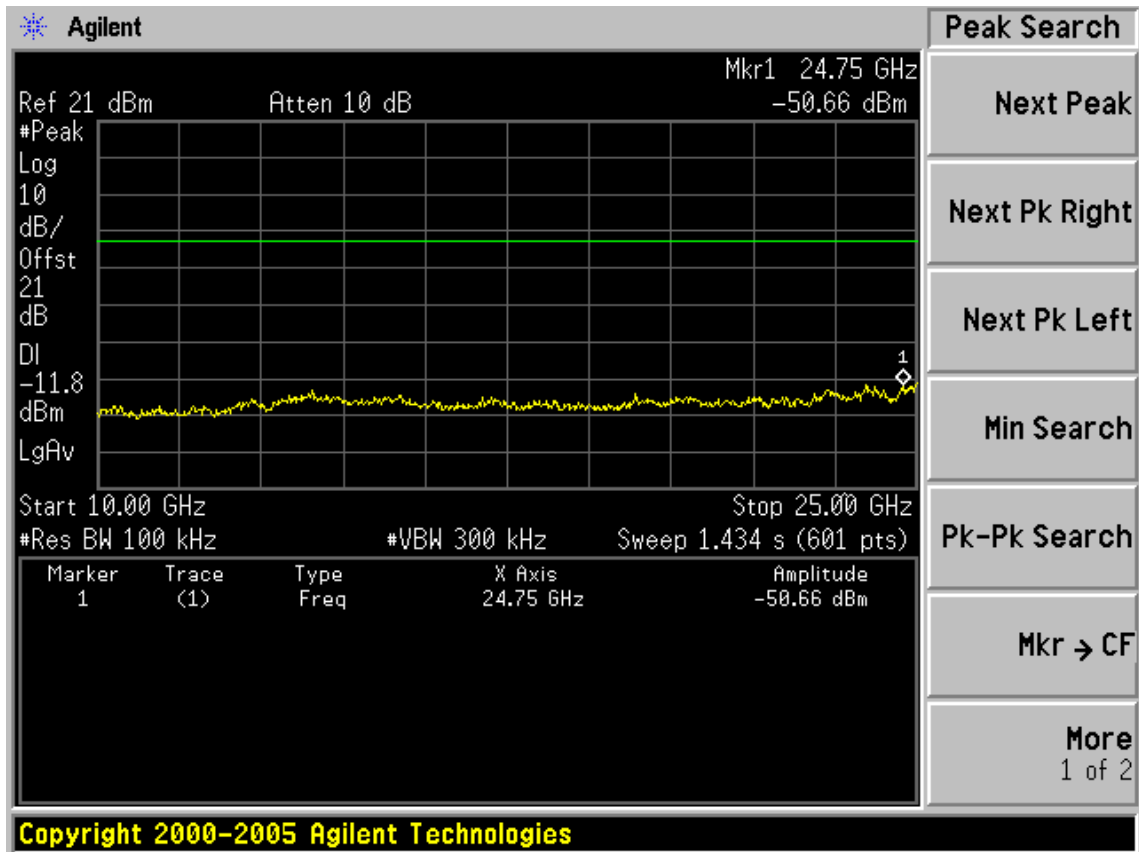


Chain 1:

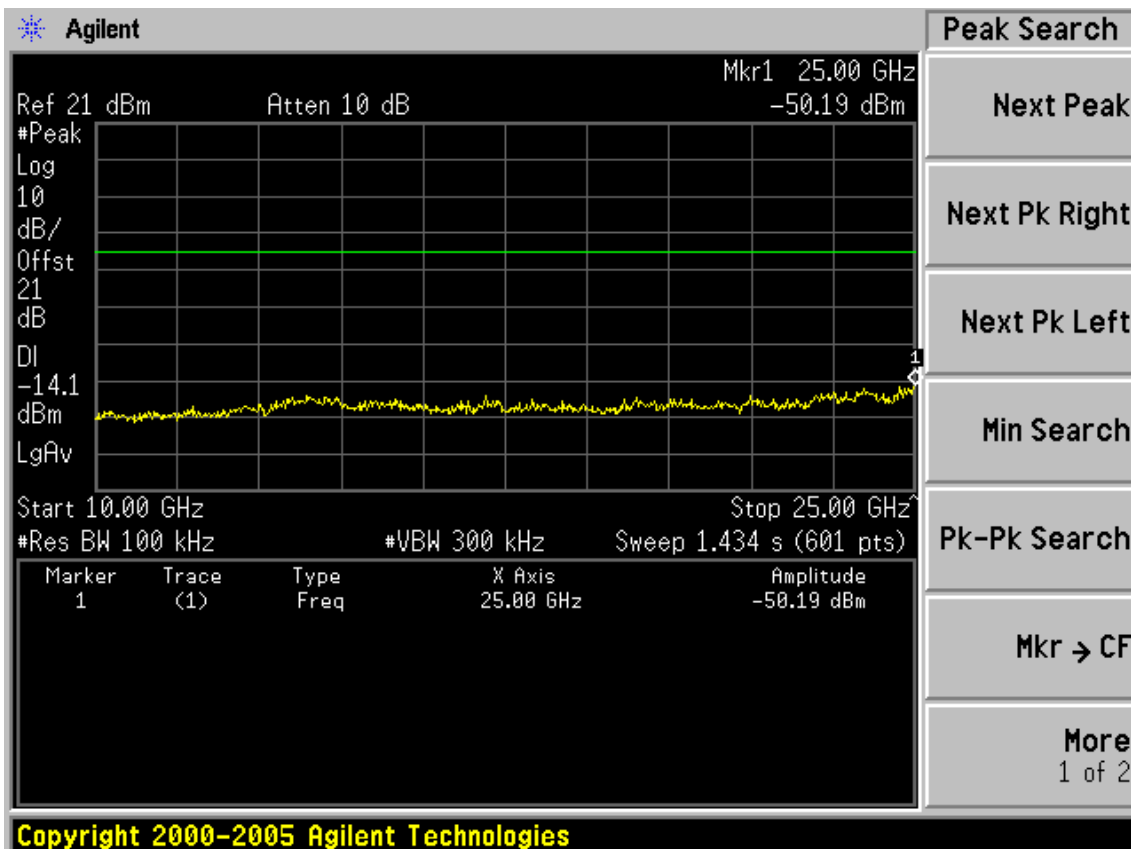
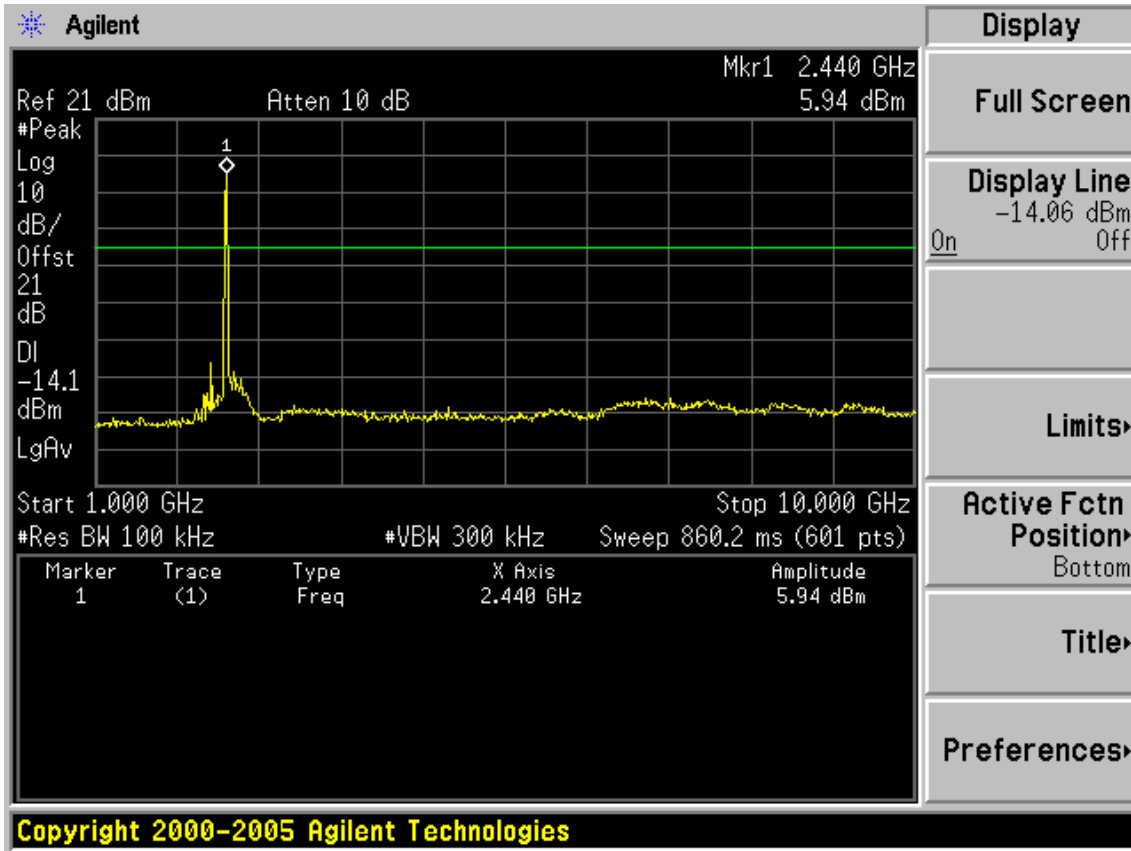
Test Mode: IEEE 802.11b TX

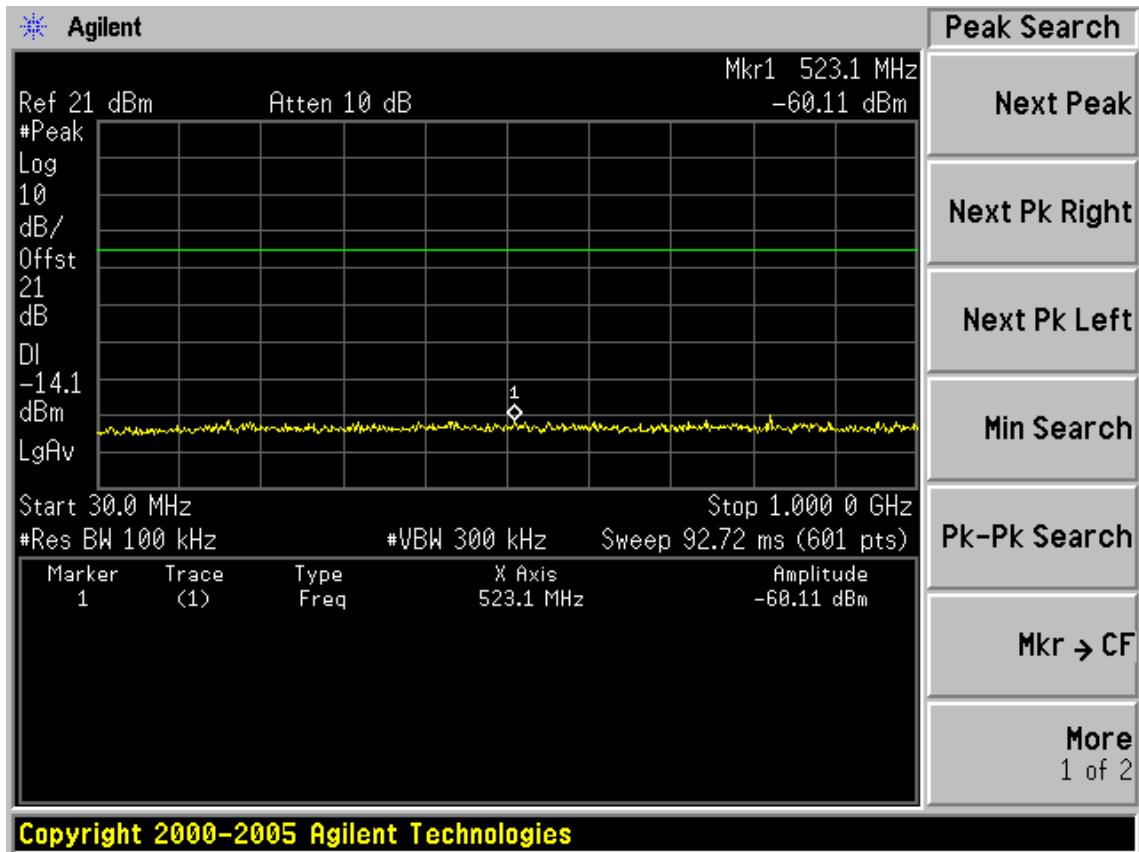
Test CH1: 2412MHz



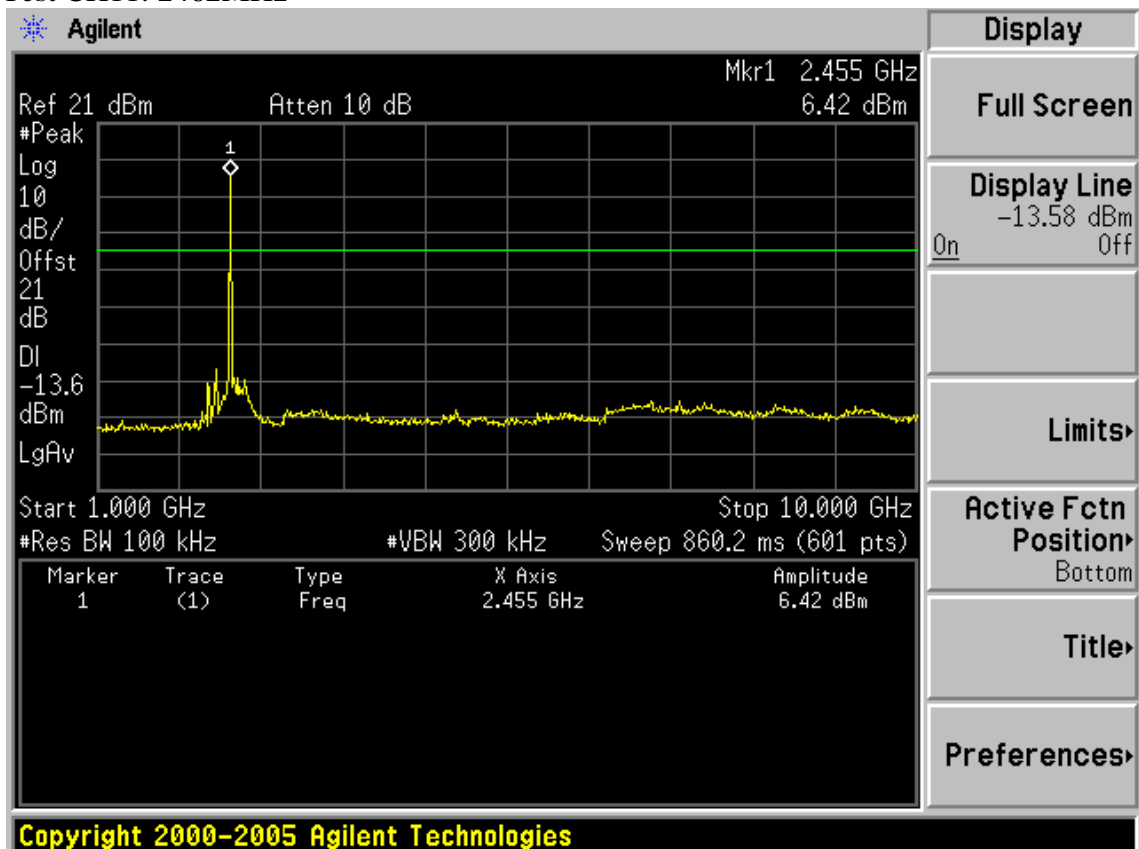


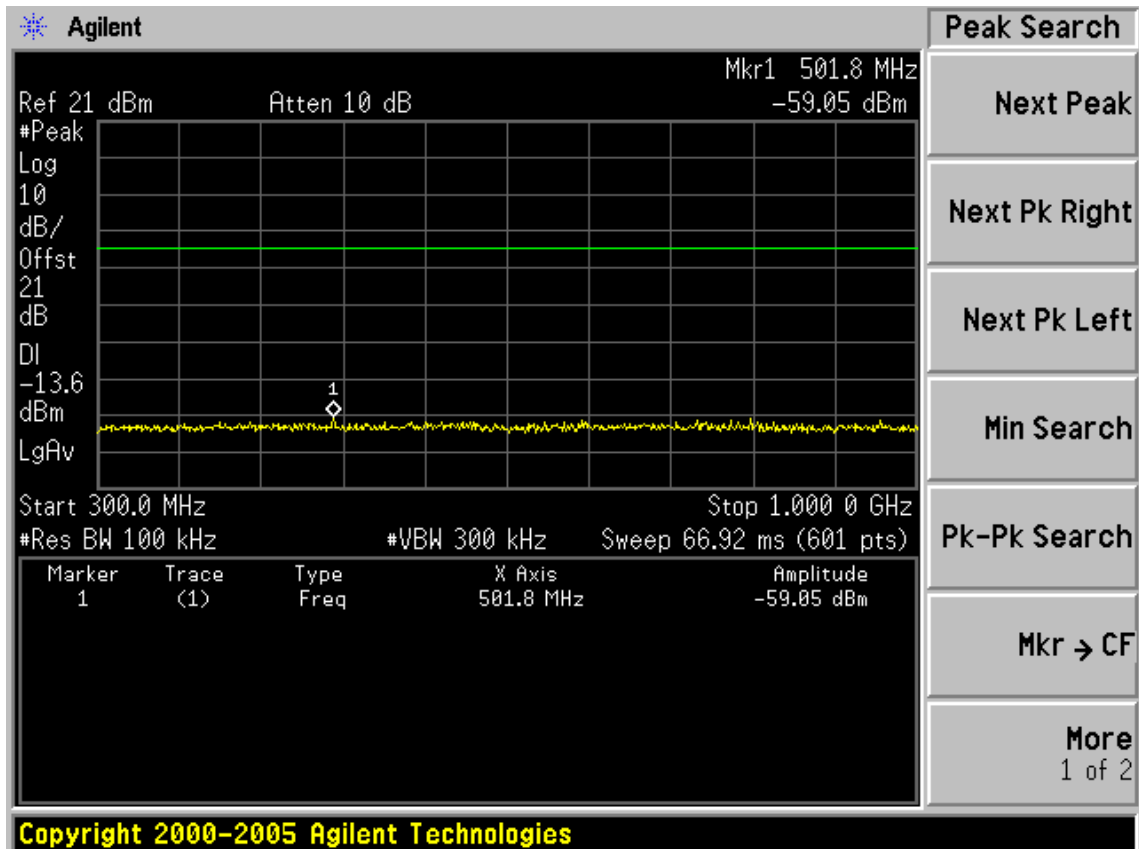
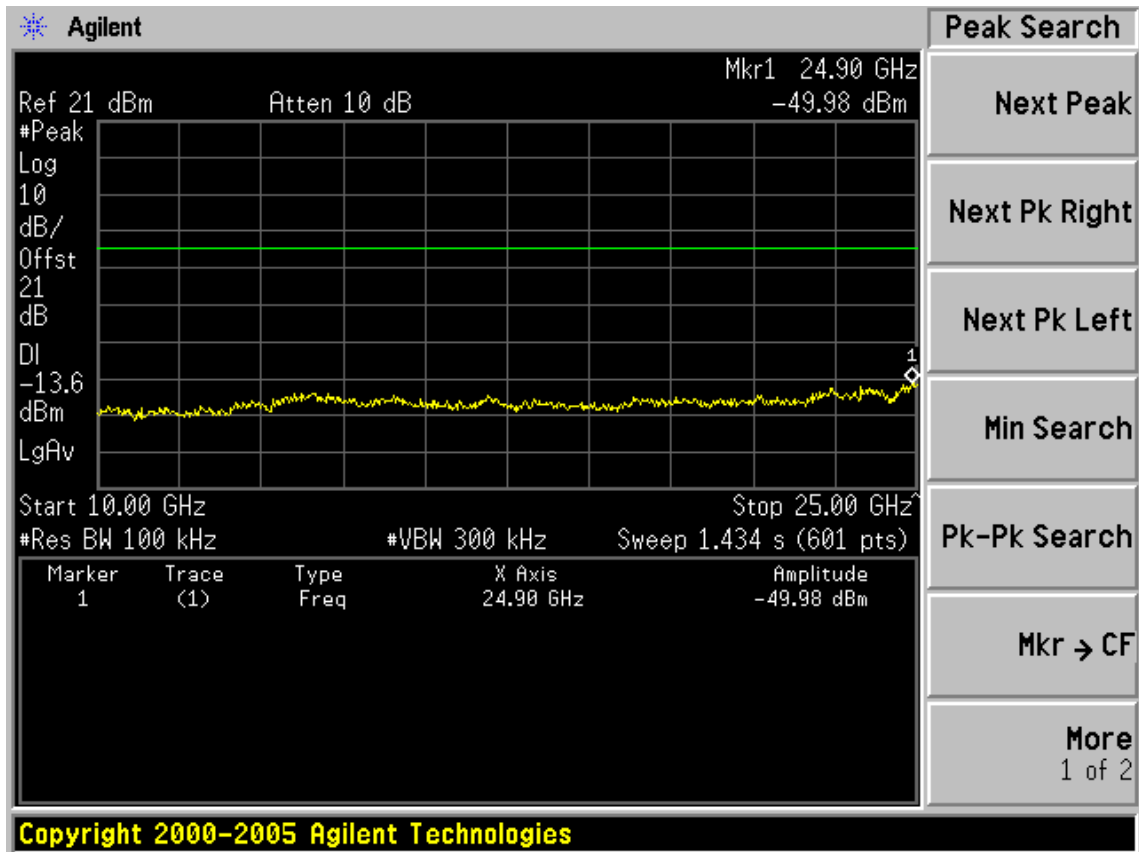
Test CH6: 2437MHz

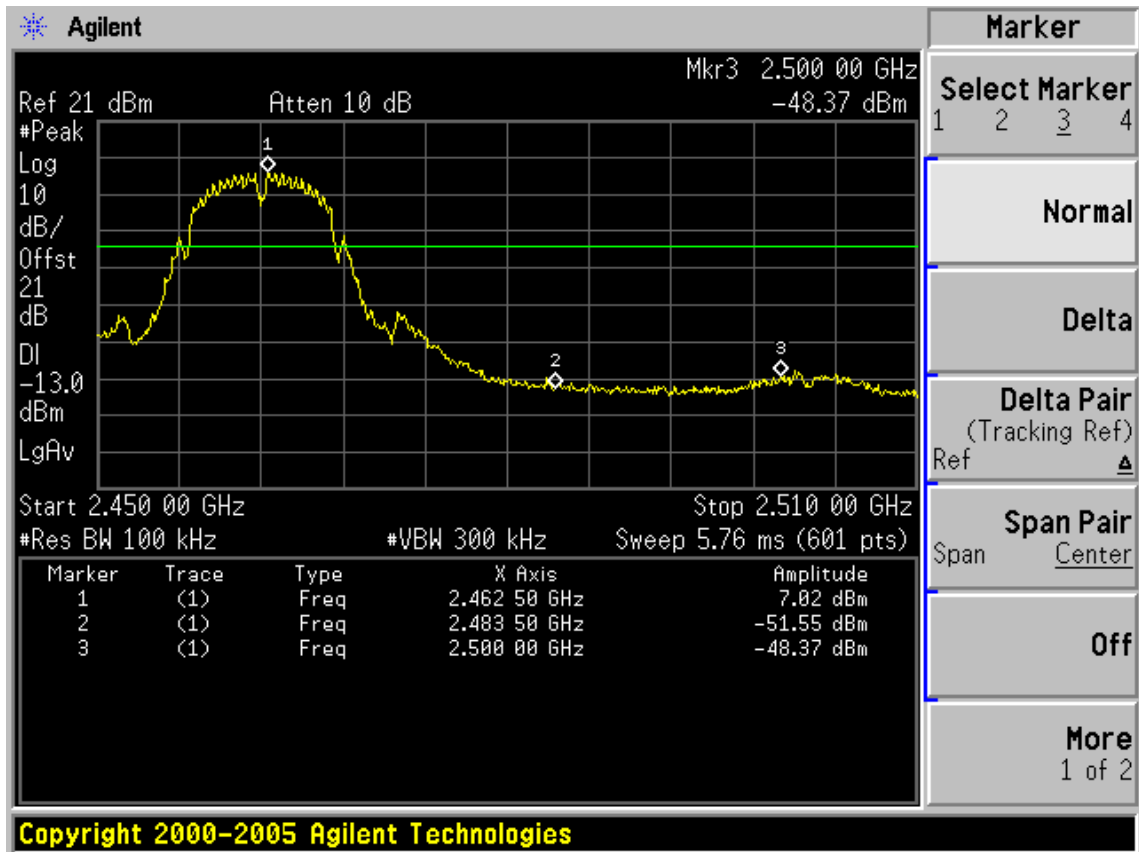




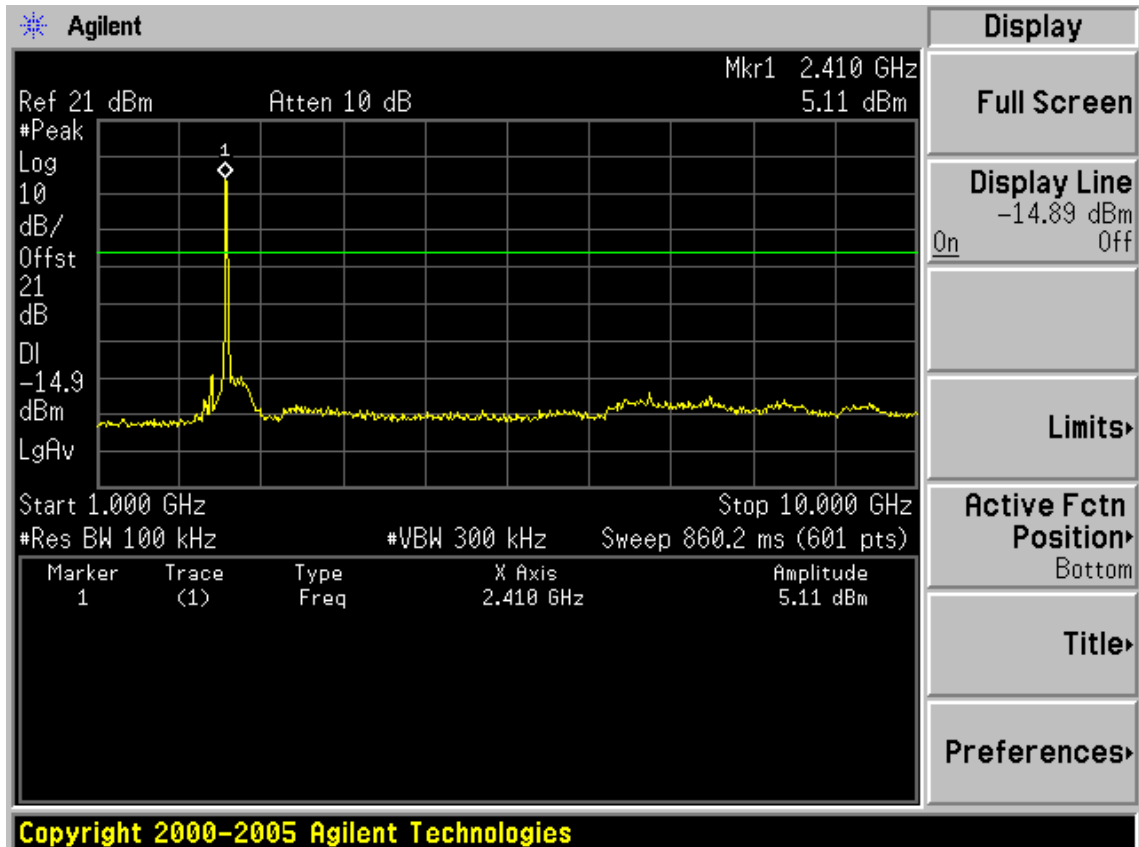
Test CH11: 2462MHz

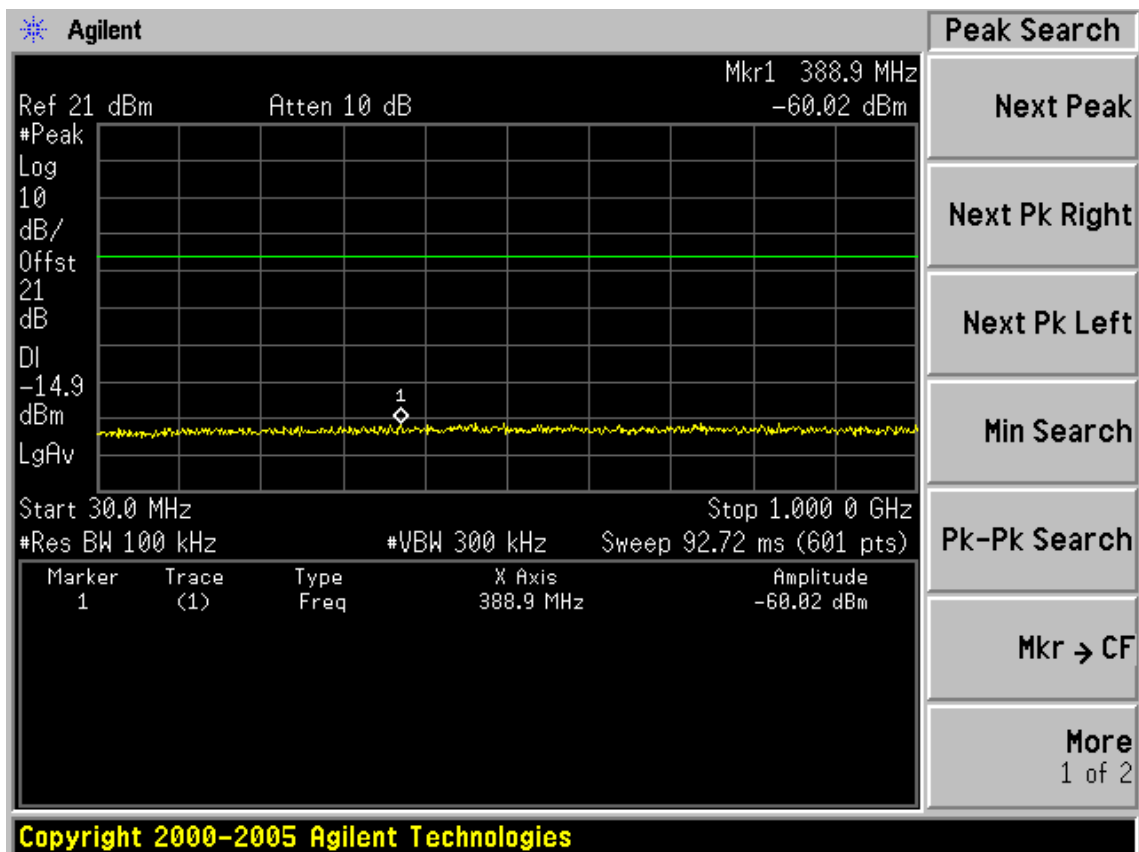
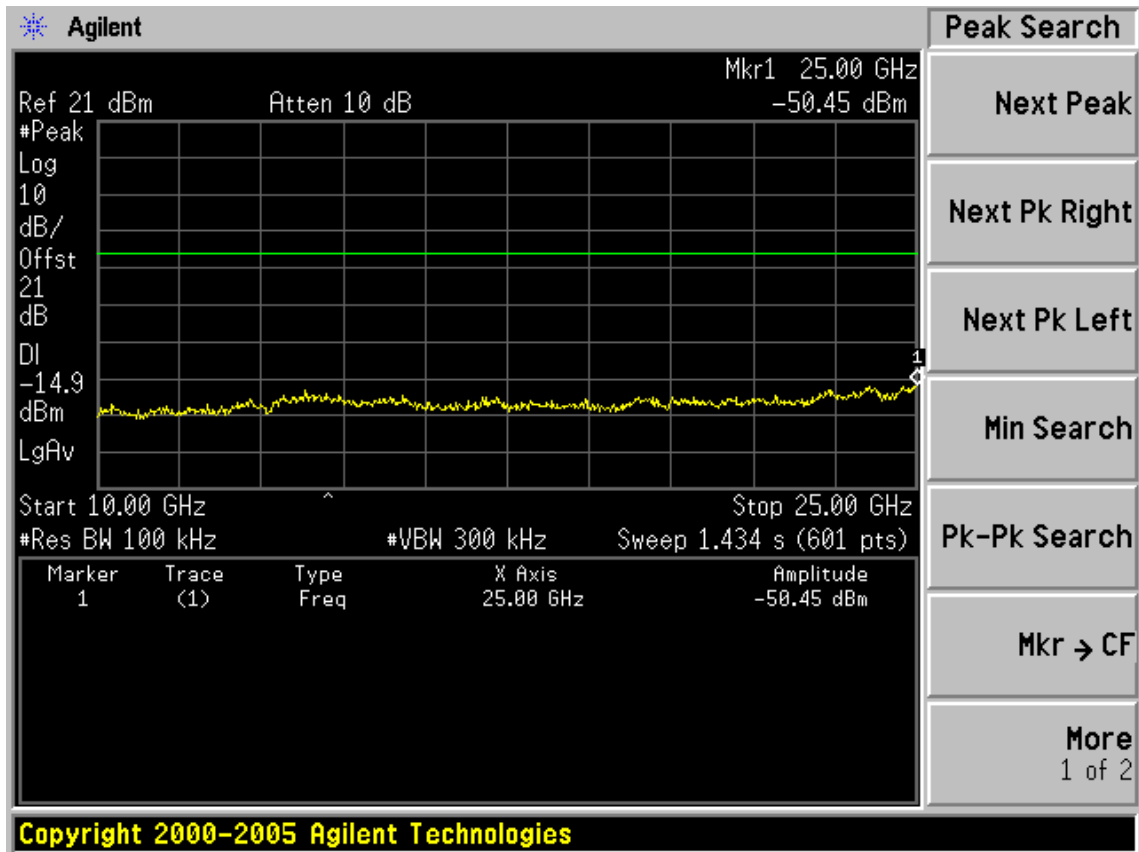


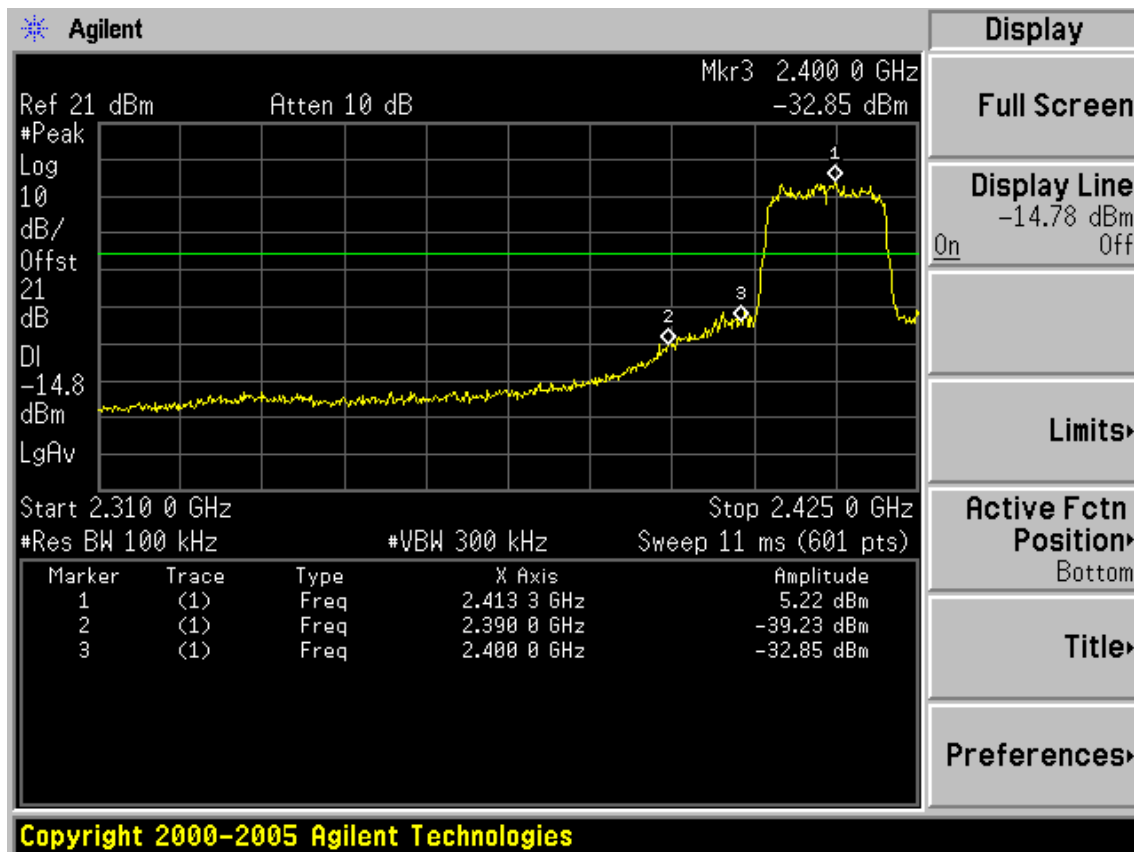




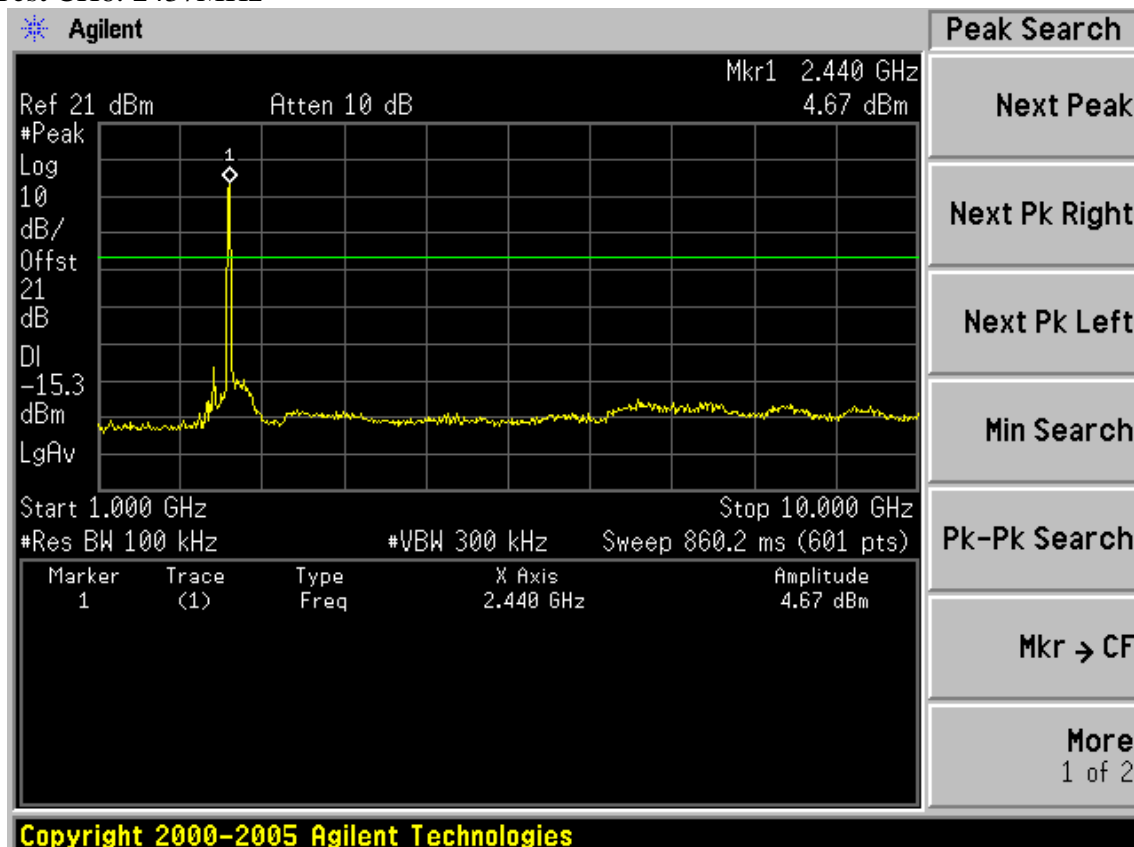
Test Mode: IEEE 802.11g TX
Test CH1: 2412MHz

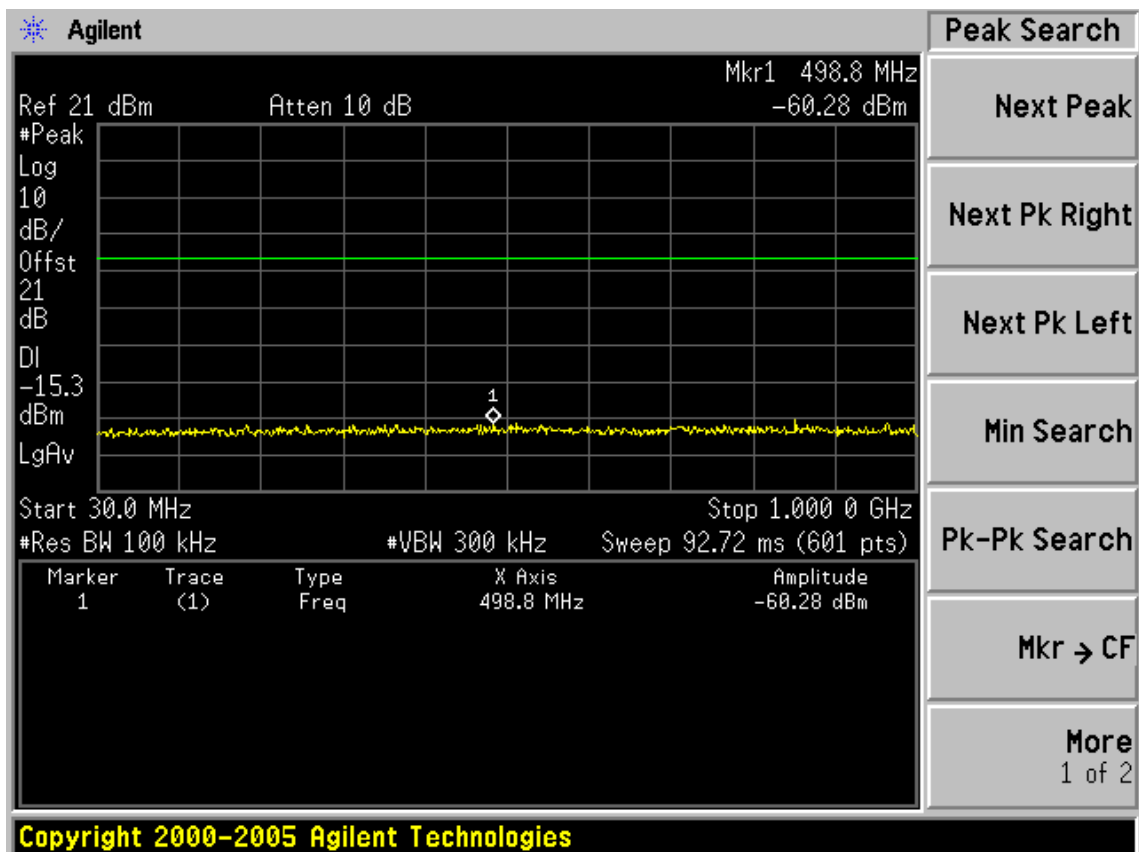
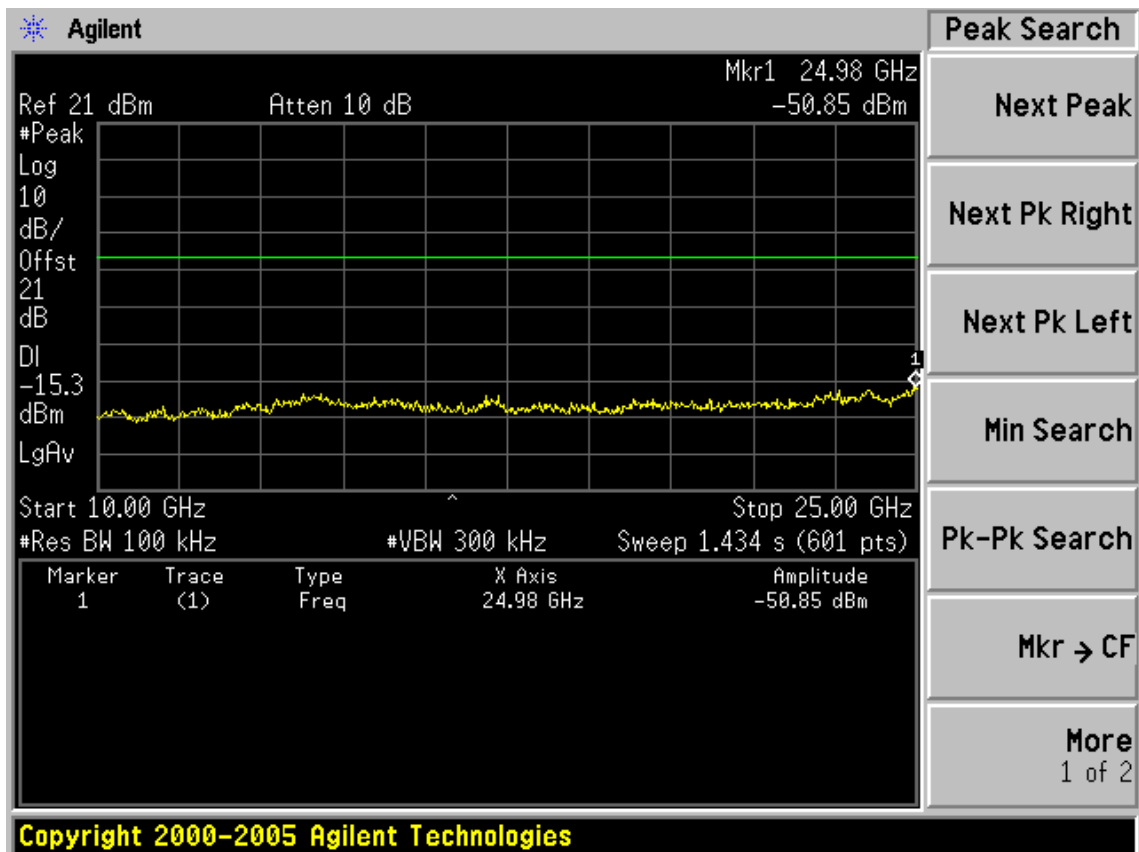




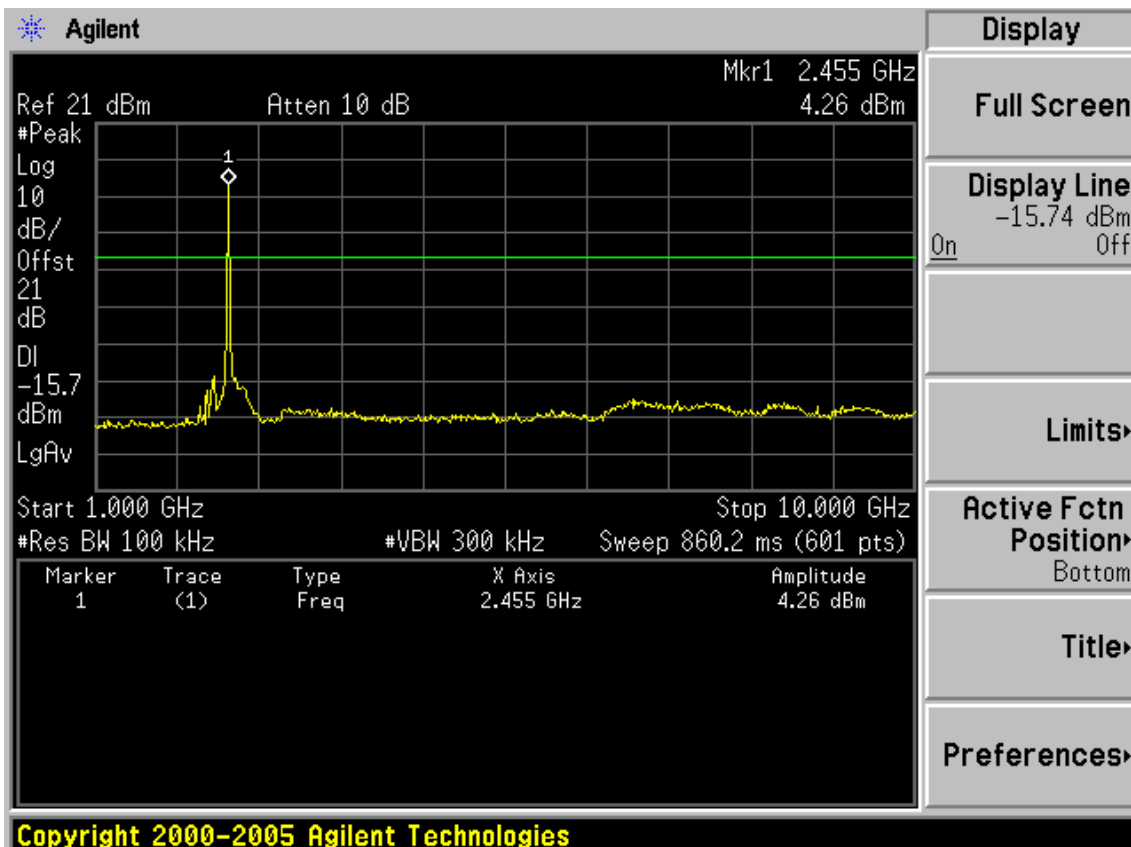
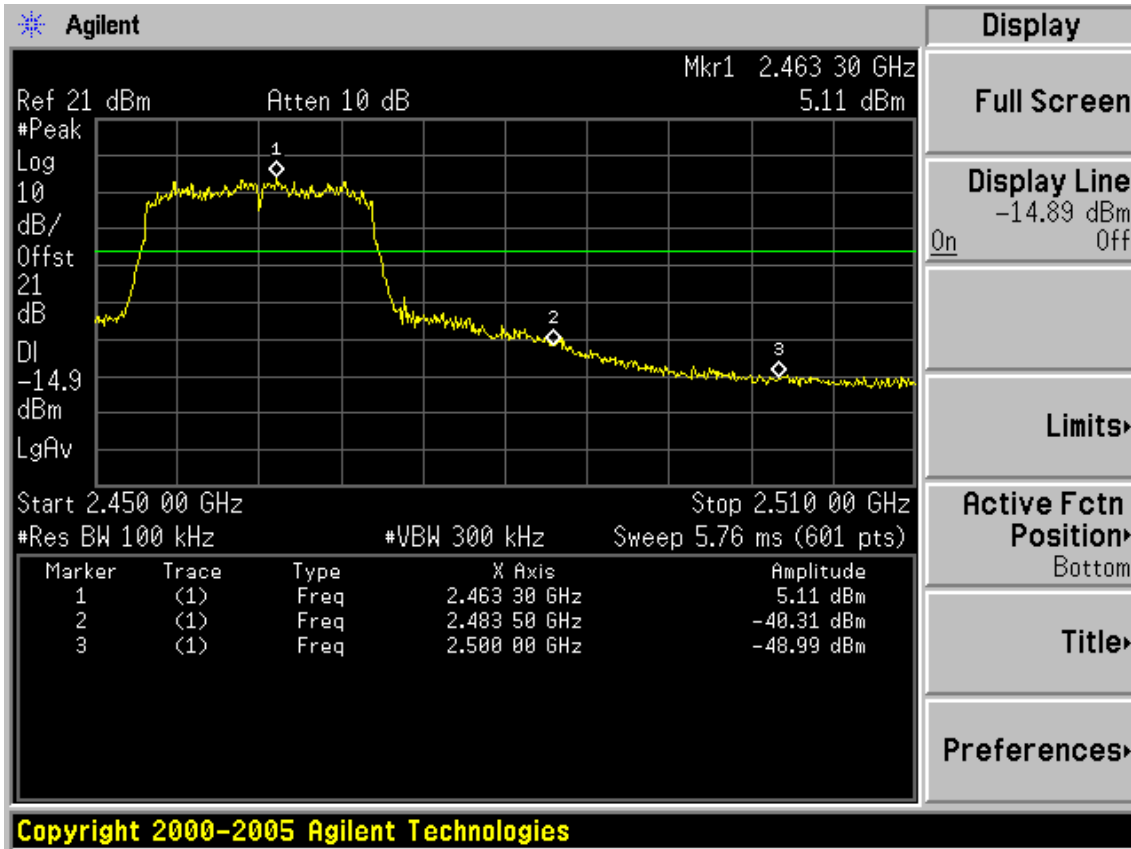


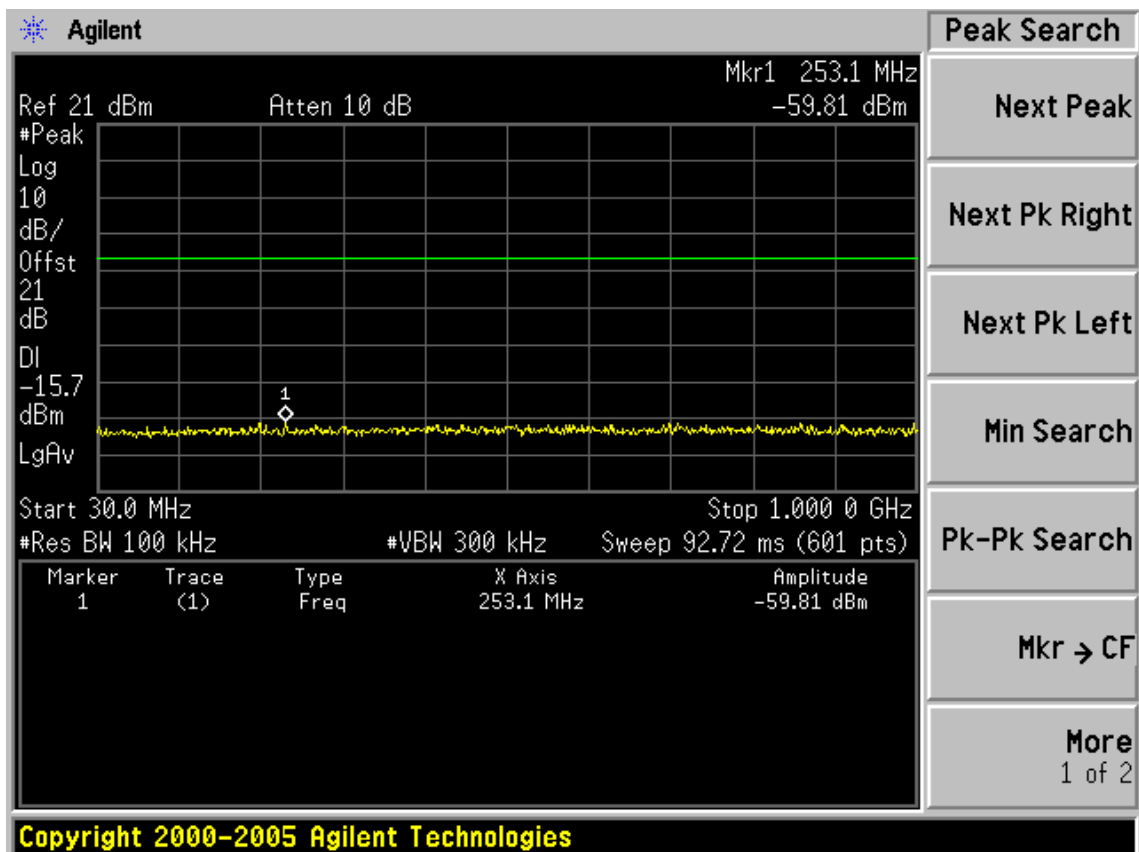
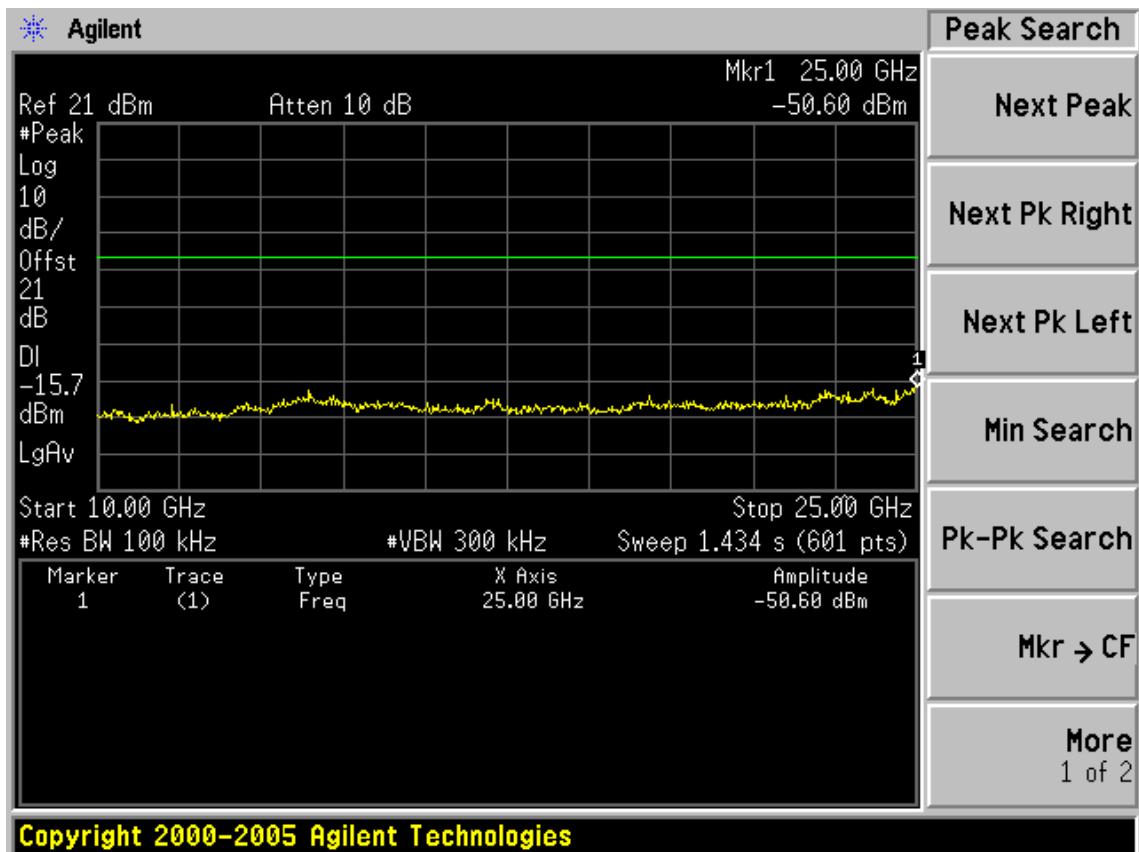
Test CH6: 2437MHz





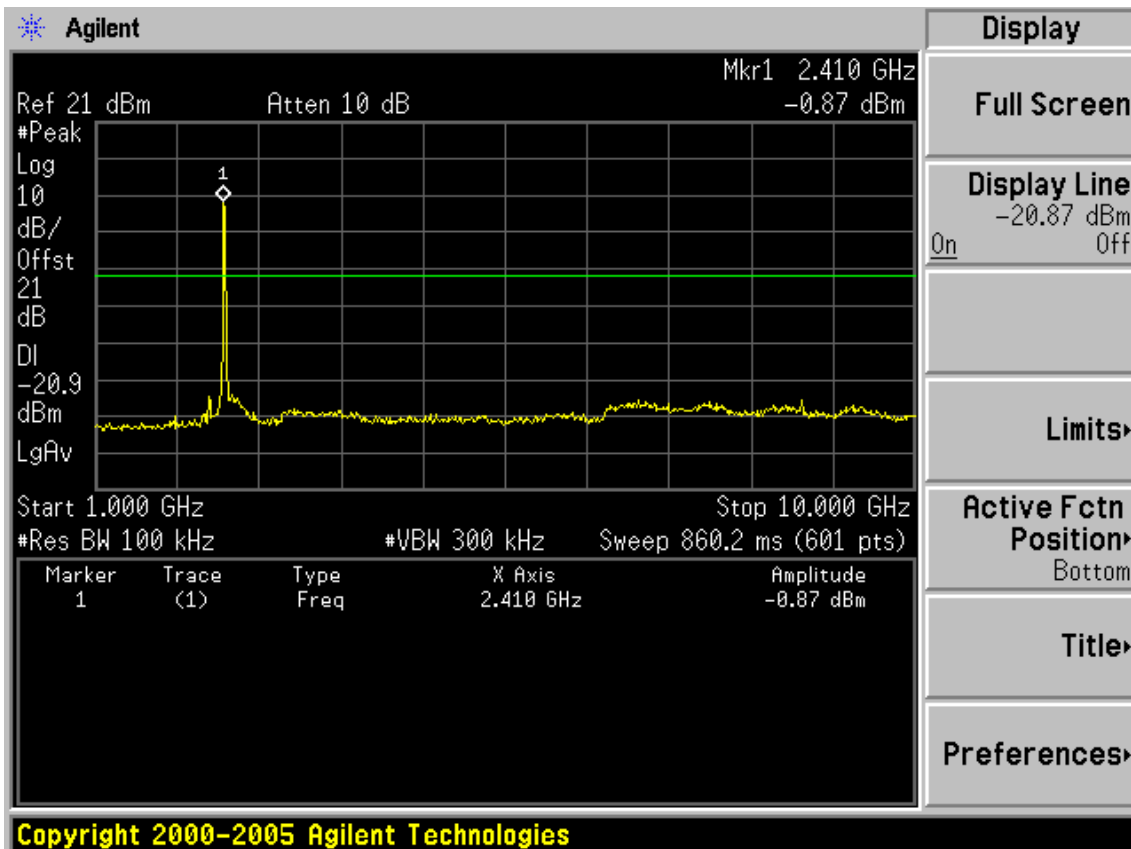
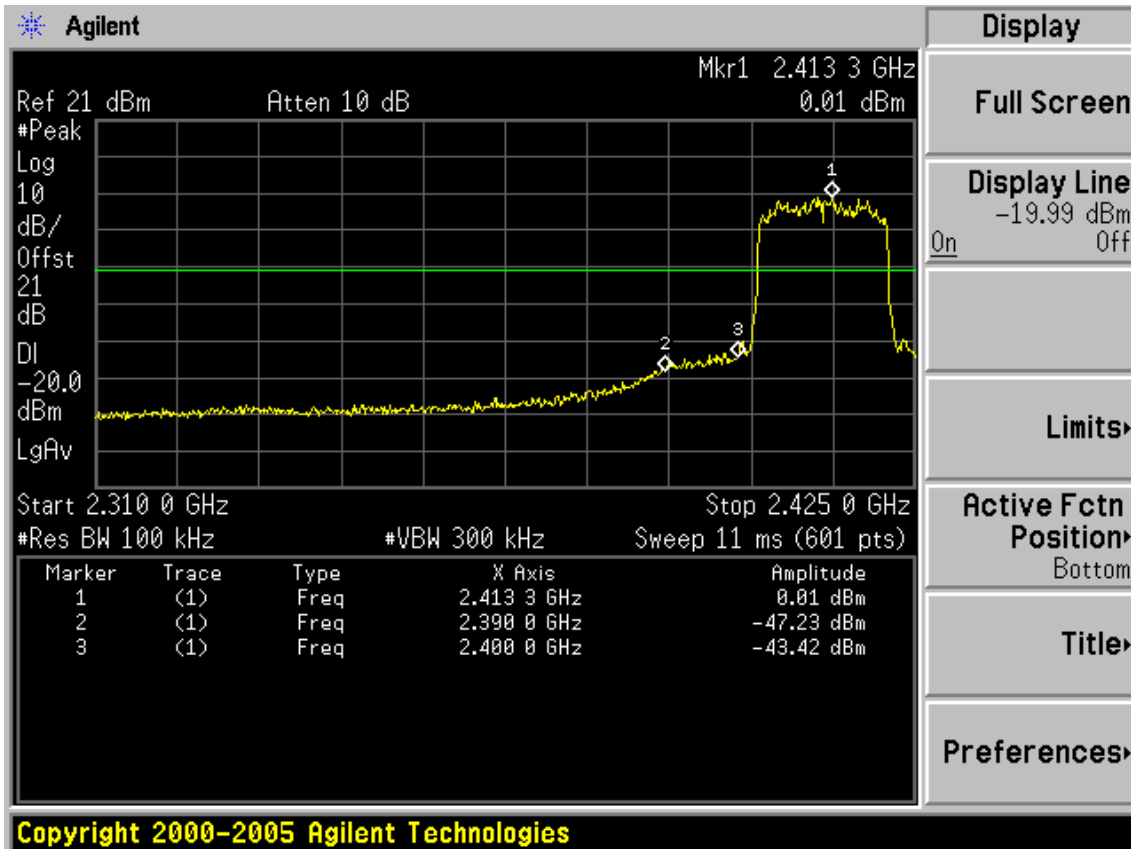
Test CH11: 2462MHz

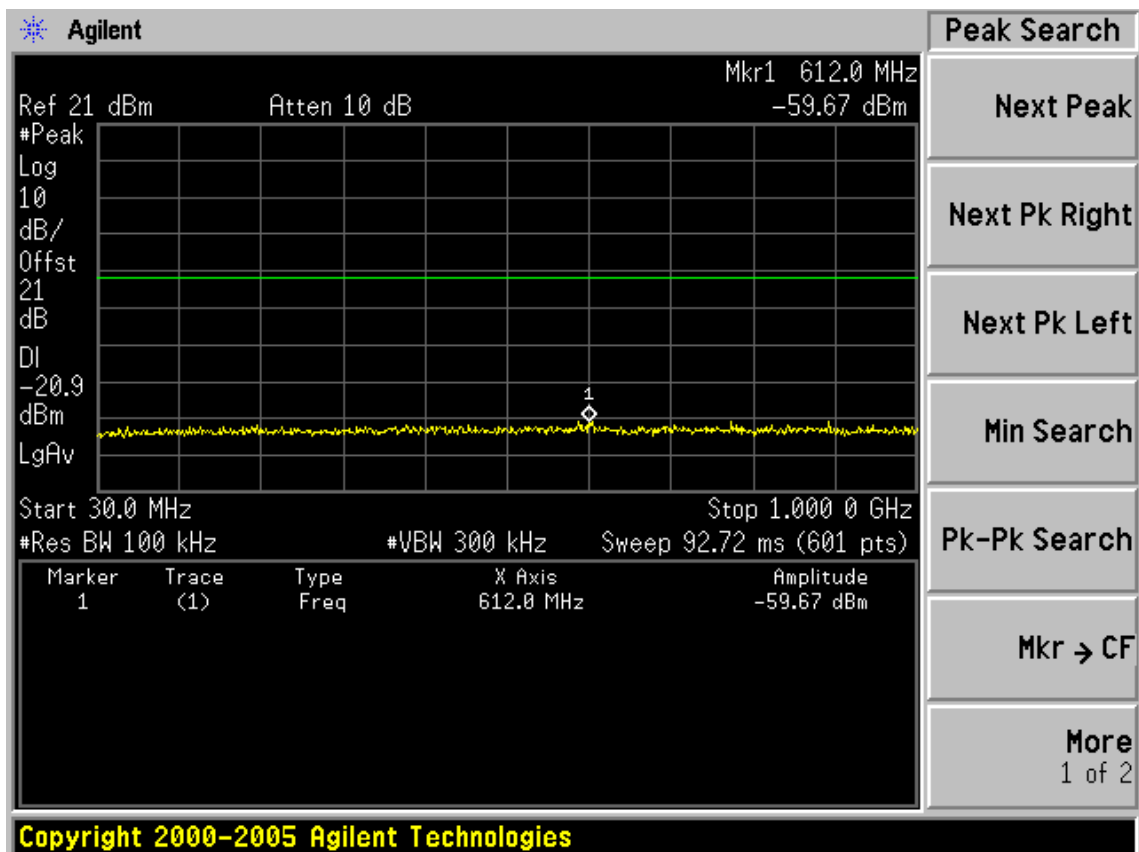
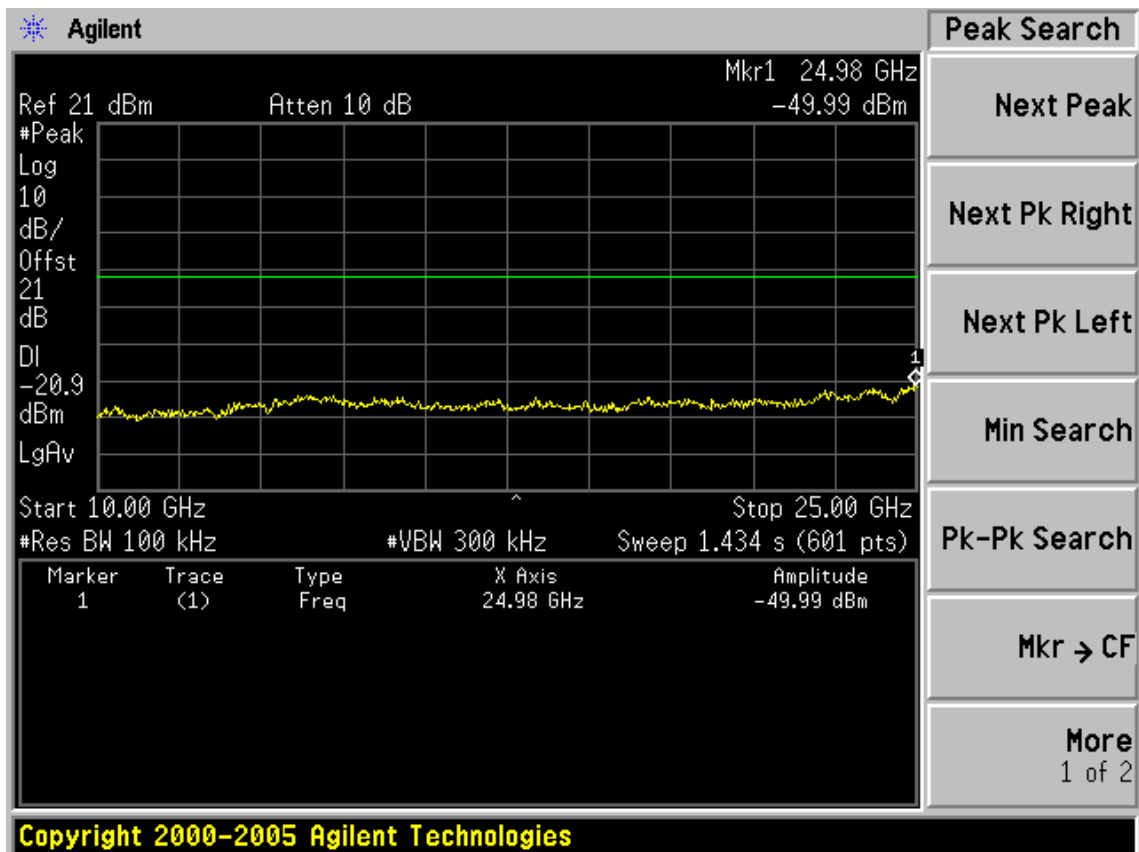




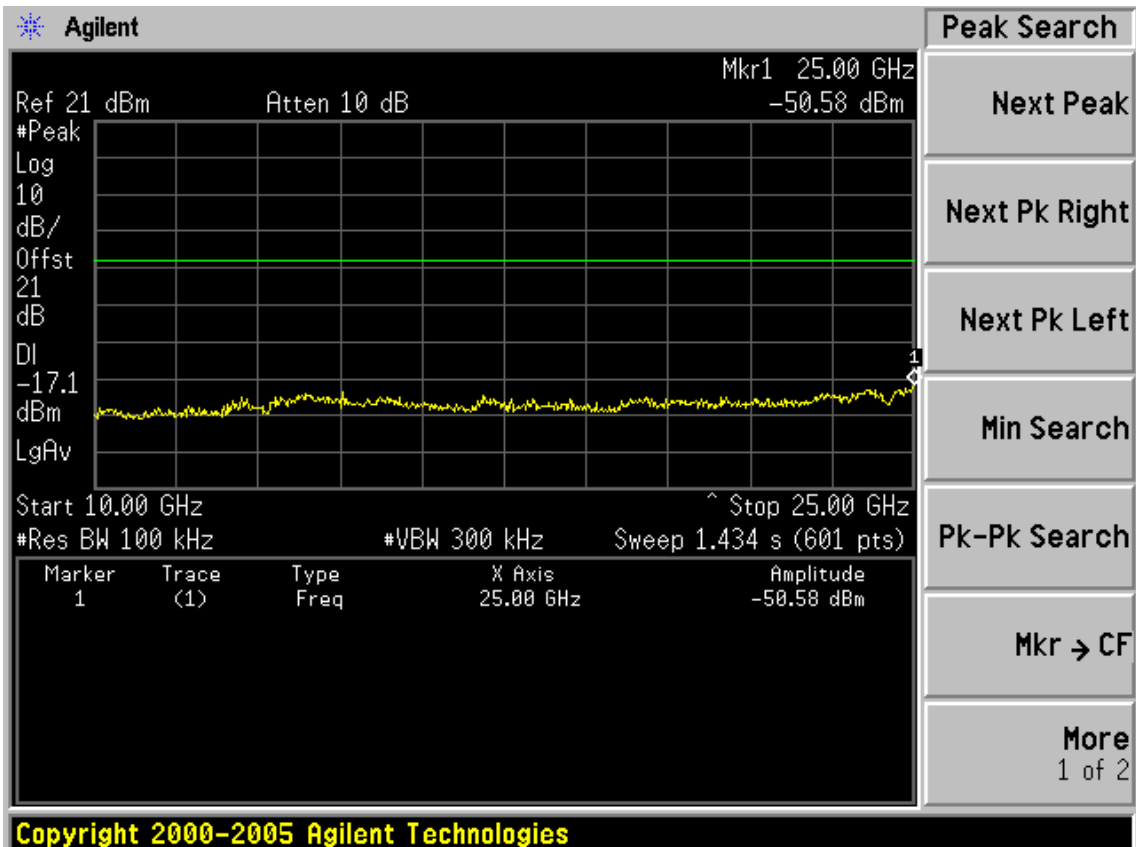
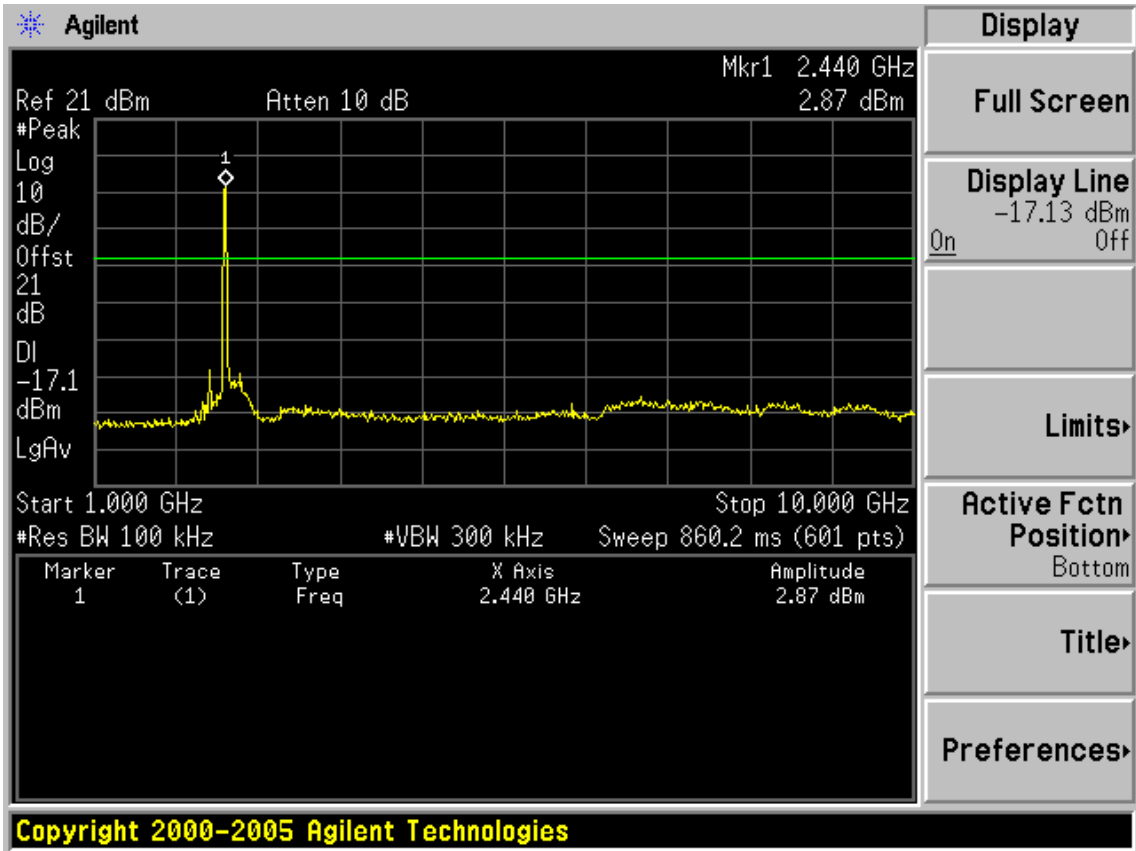
Test Mode: IEEE 802.11n HT20 TX

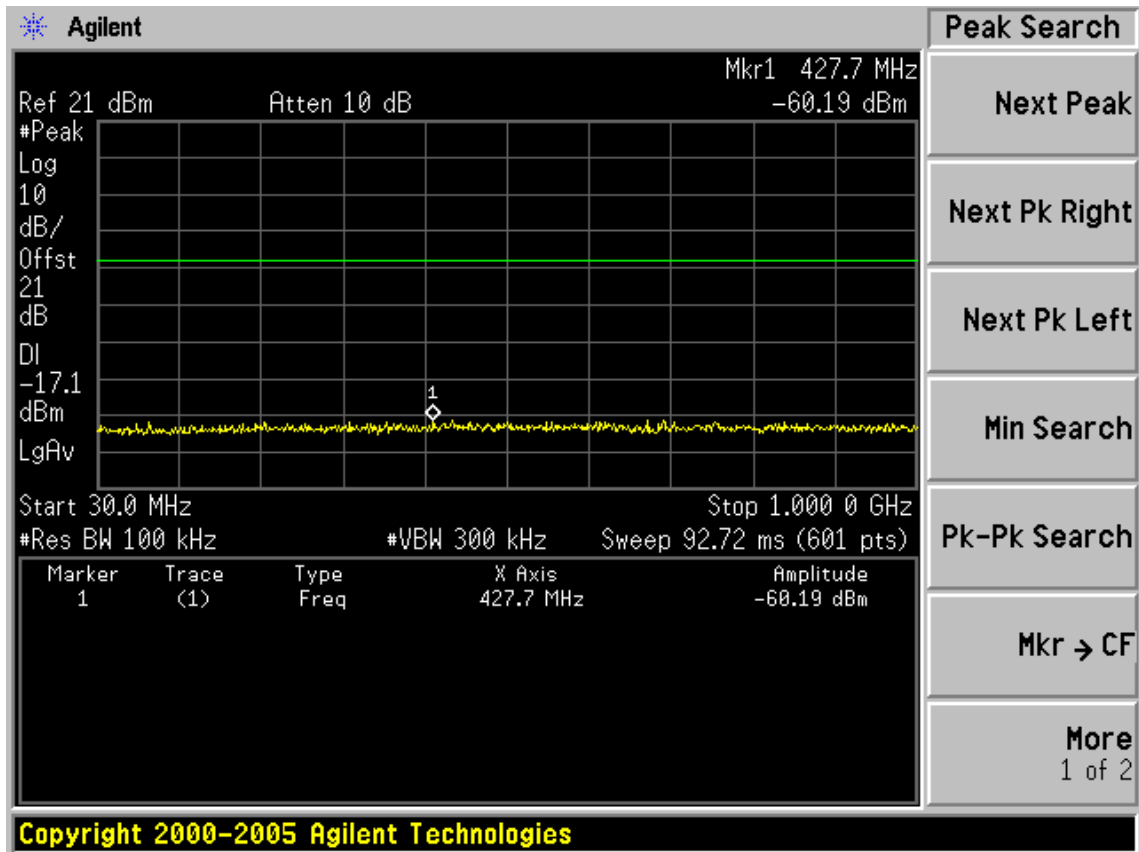
Test CH1: 2412MHz



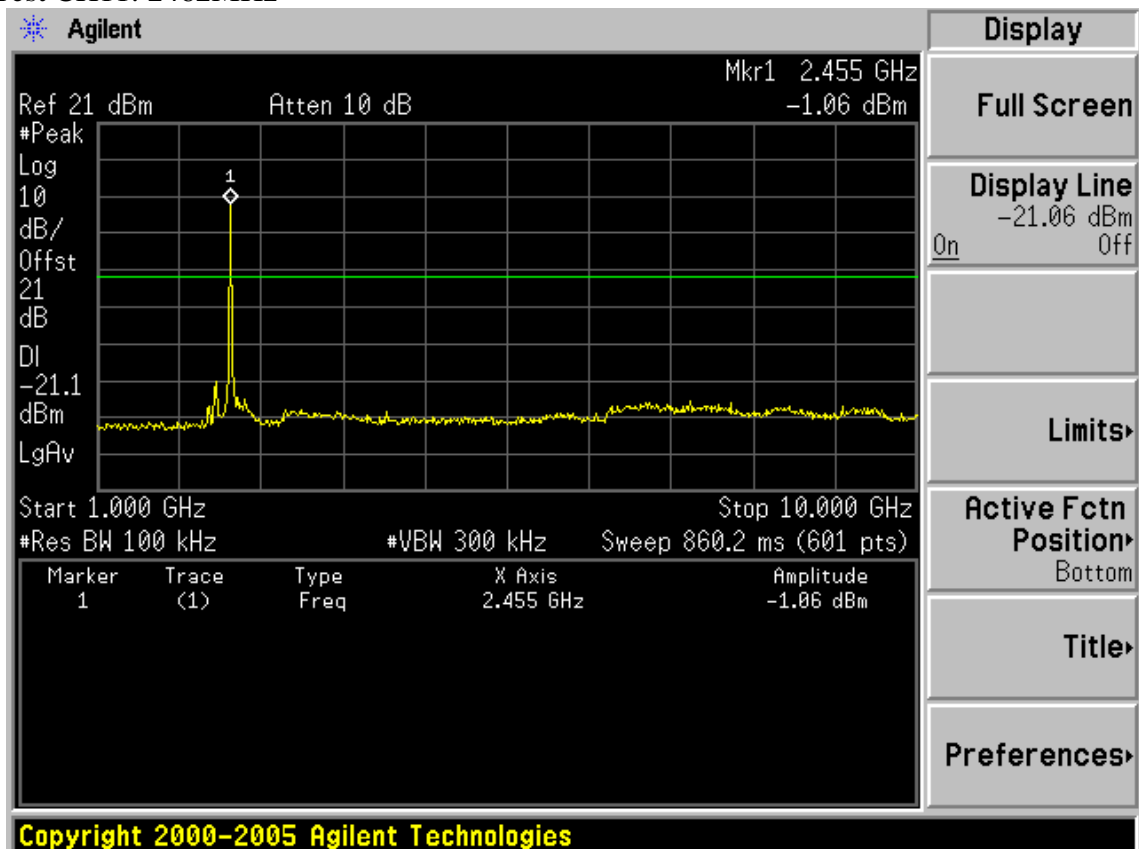


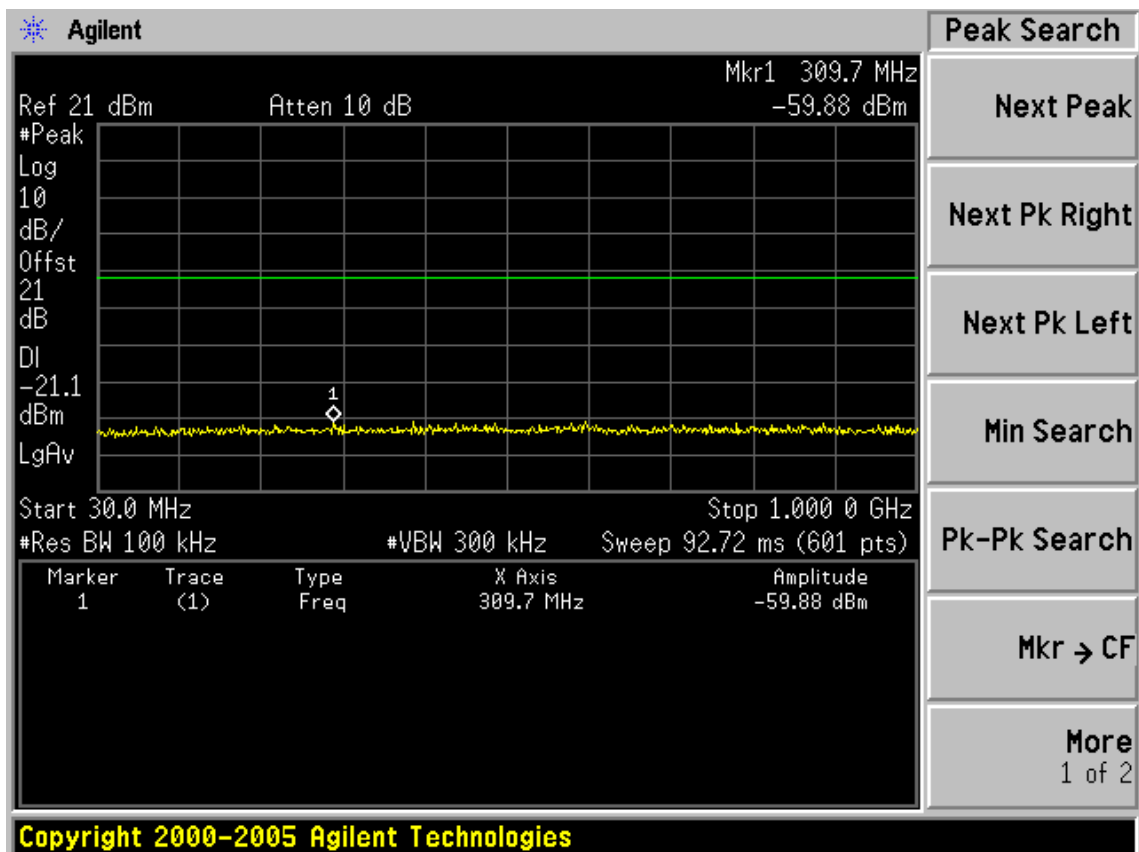
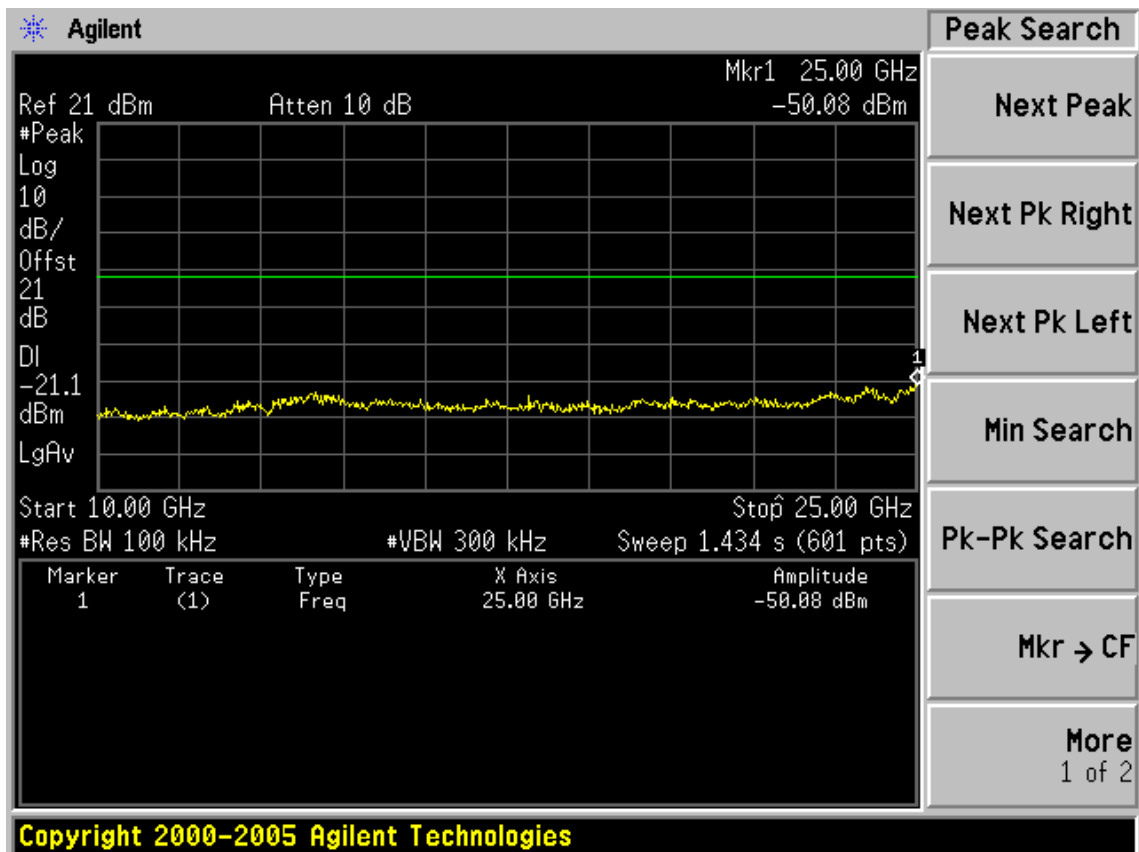
Test CH6: 2437MHz

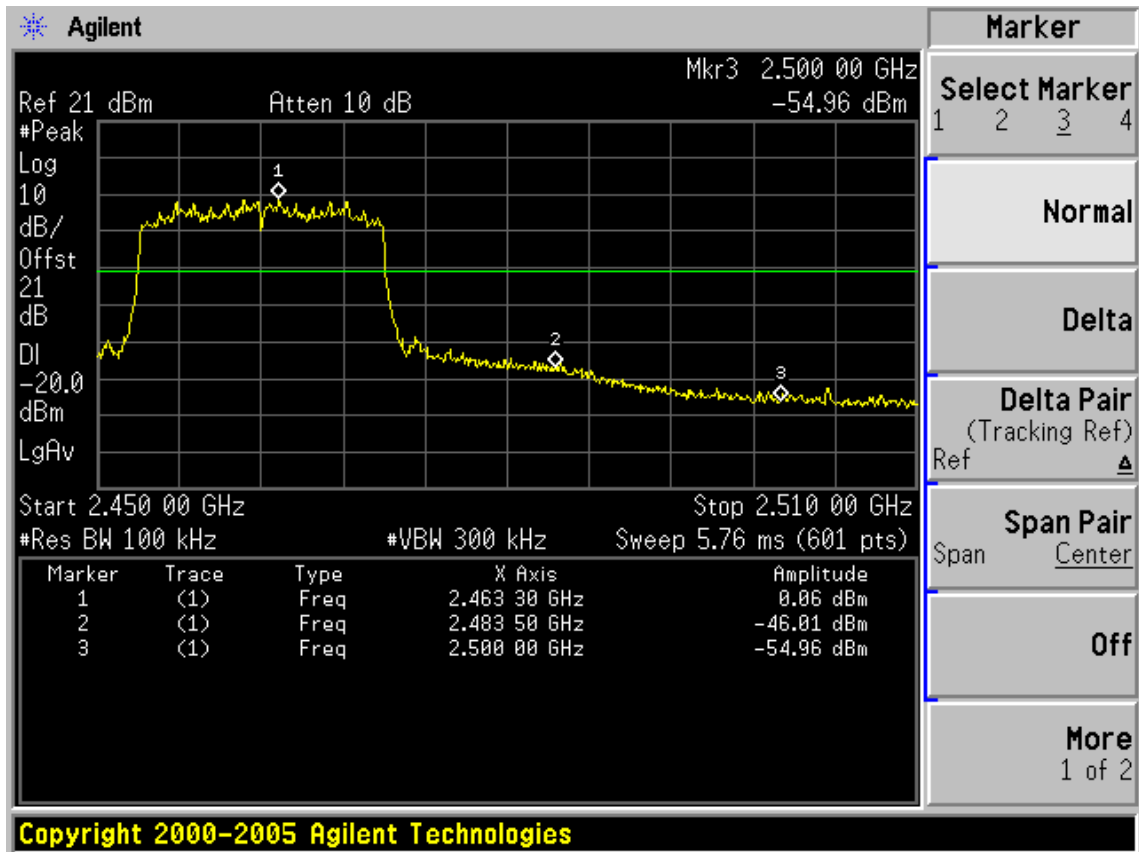




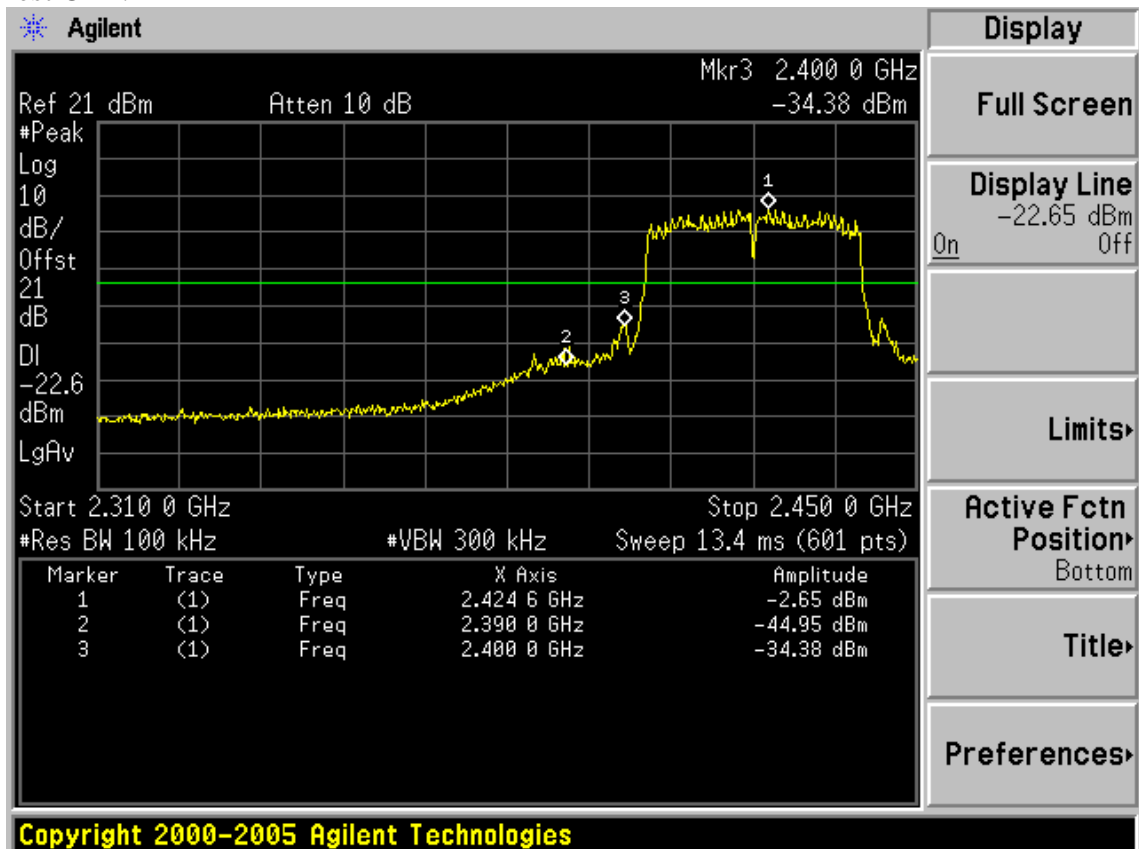
Test CH11: 2462MHz

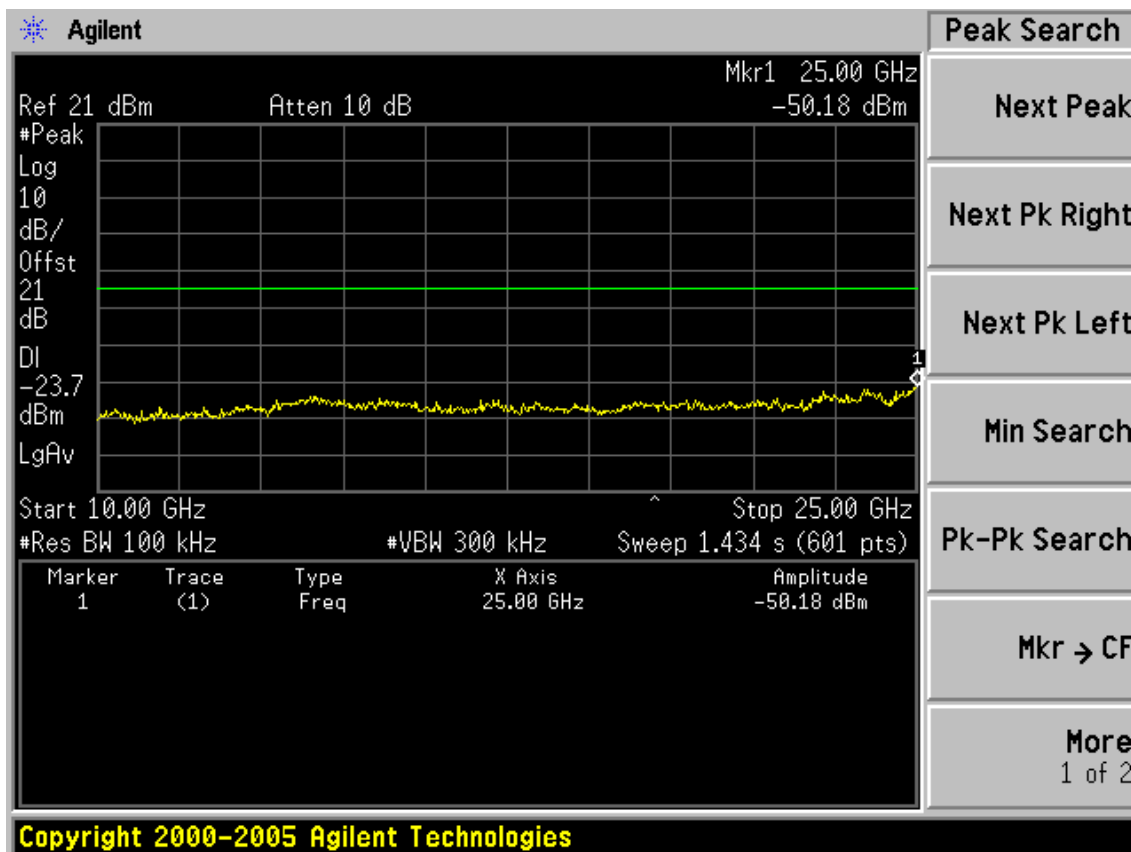
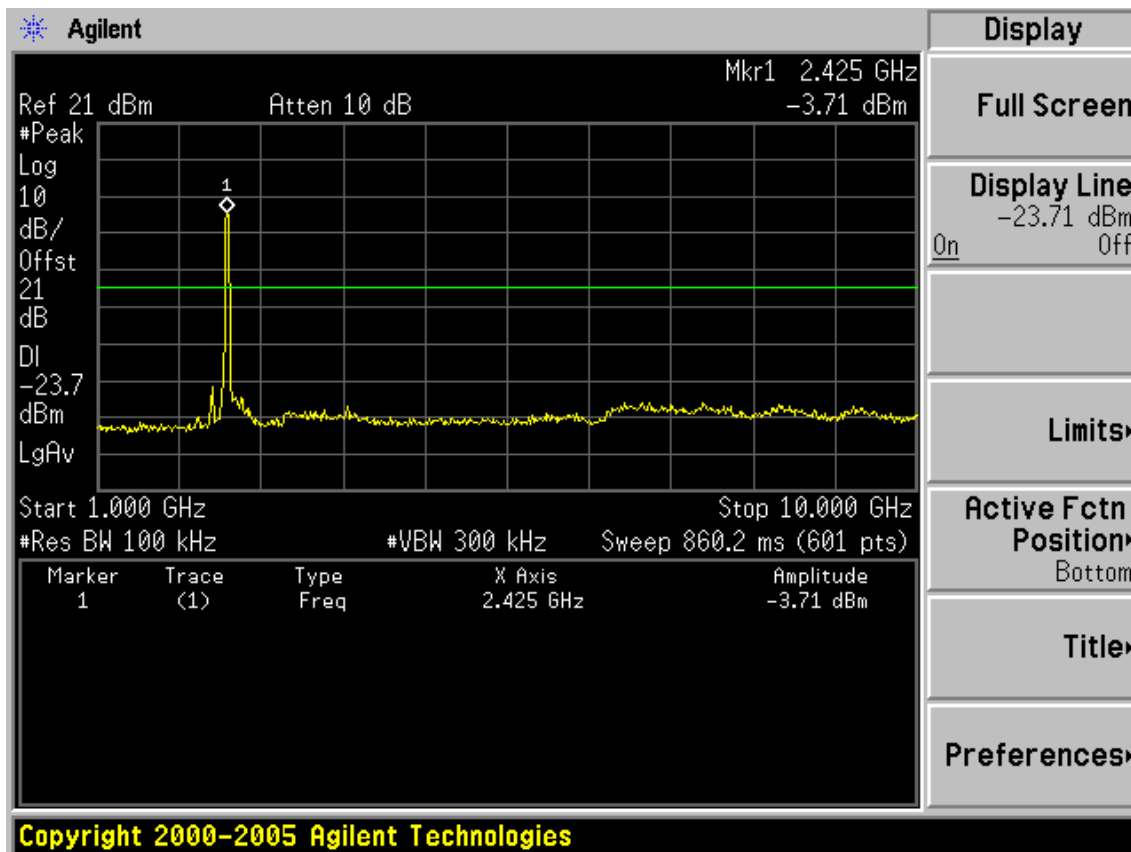


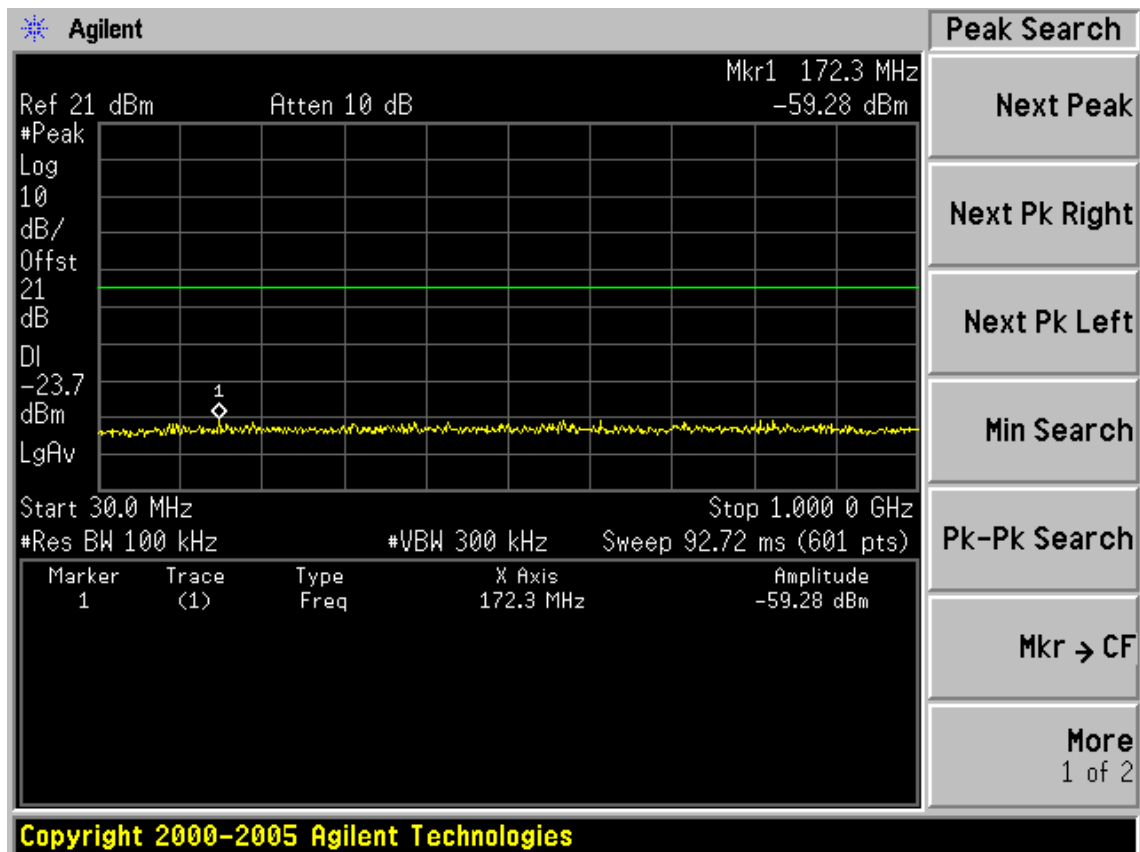




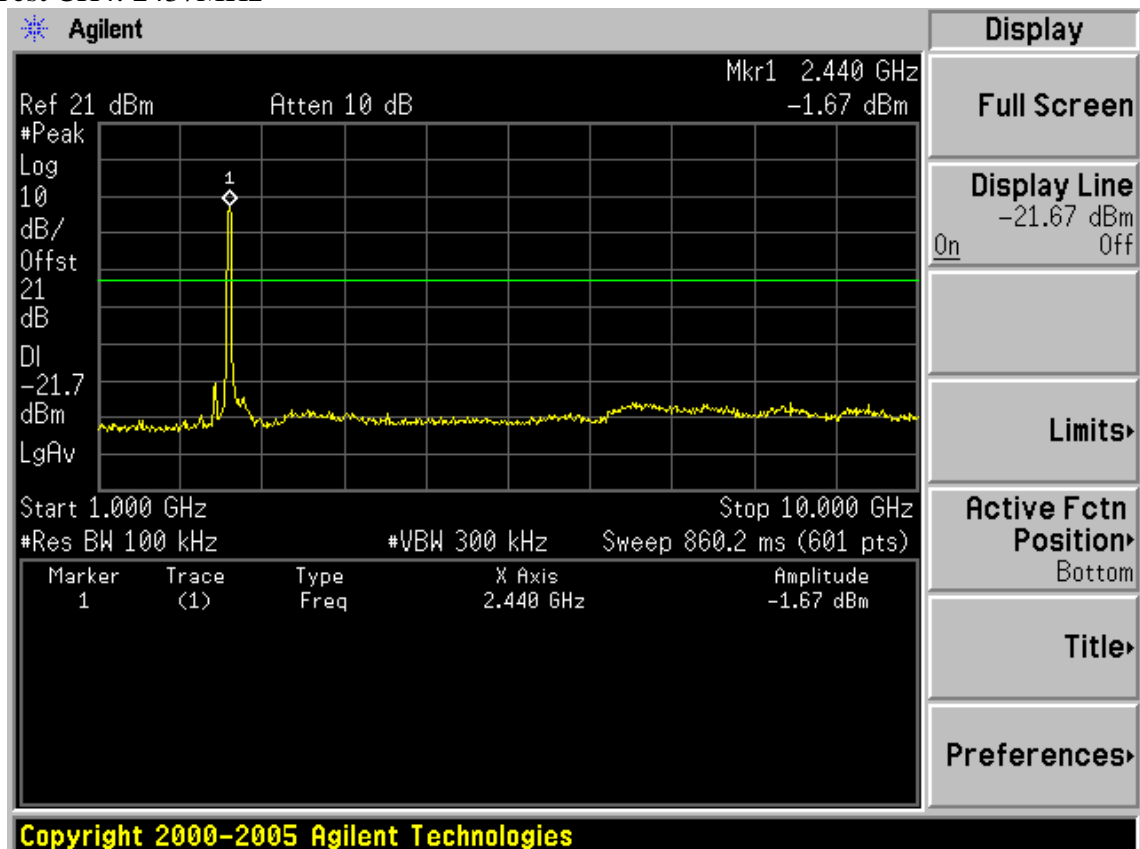
Test Mode: IEEE 802.11n HT40 TX
Test CH1: 2422MHz

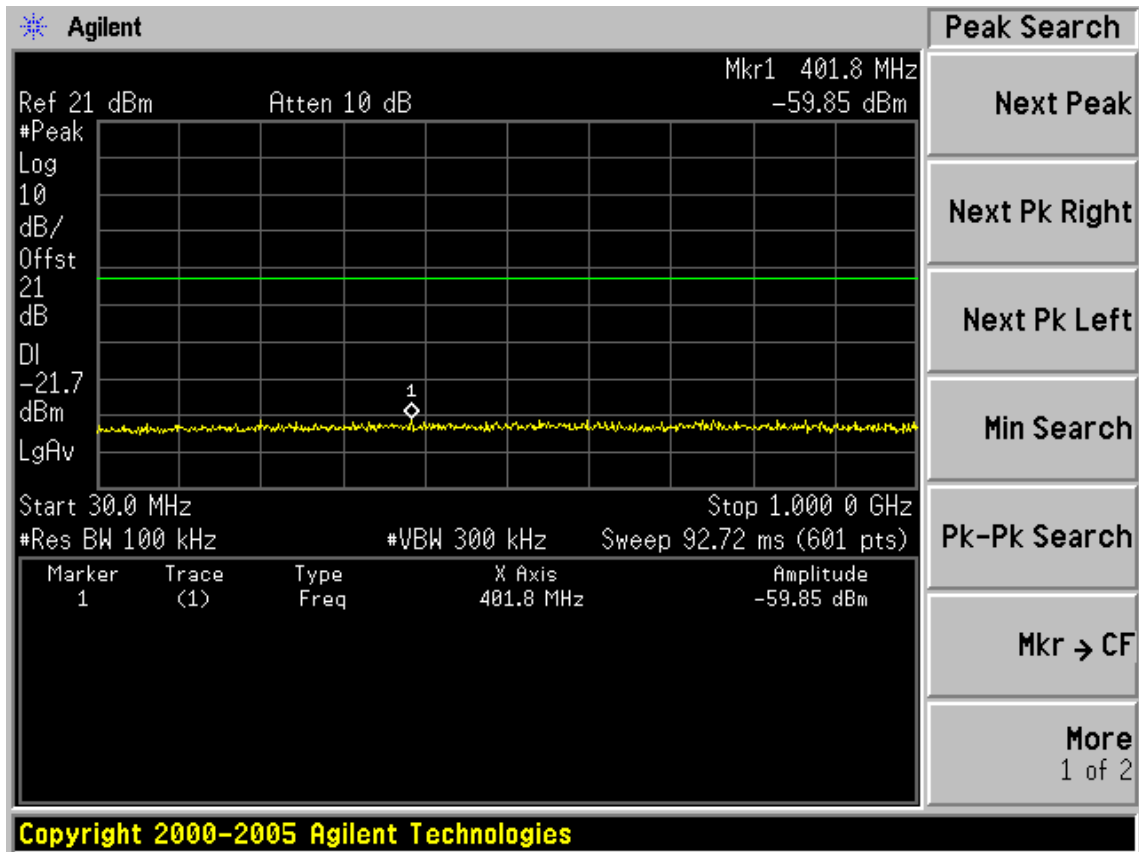
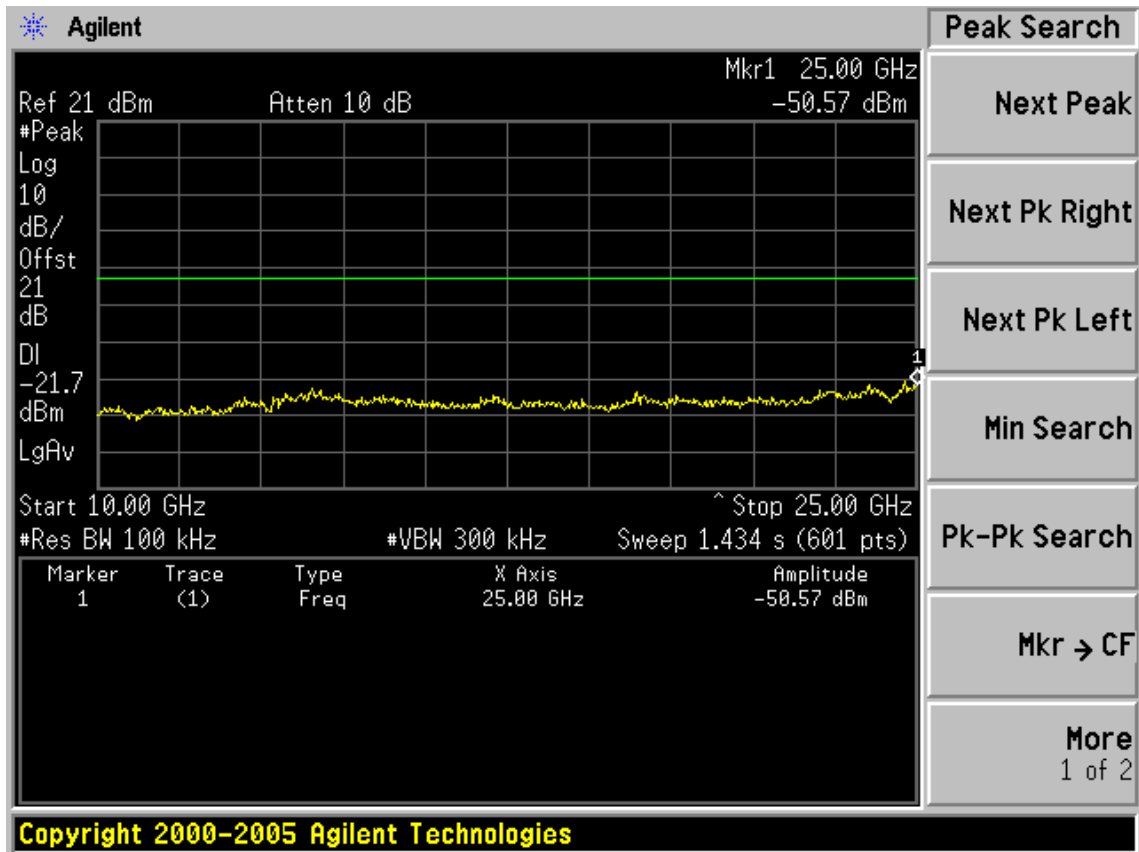




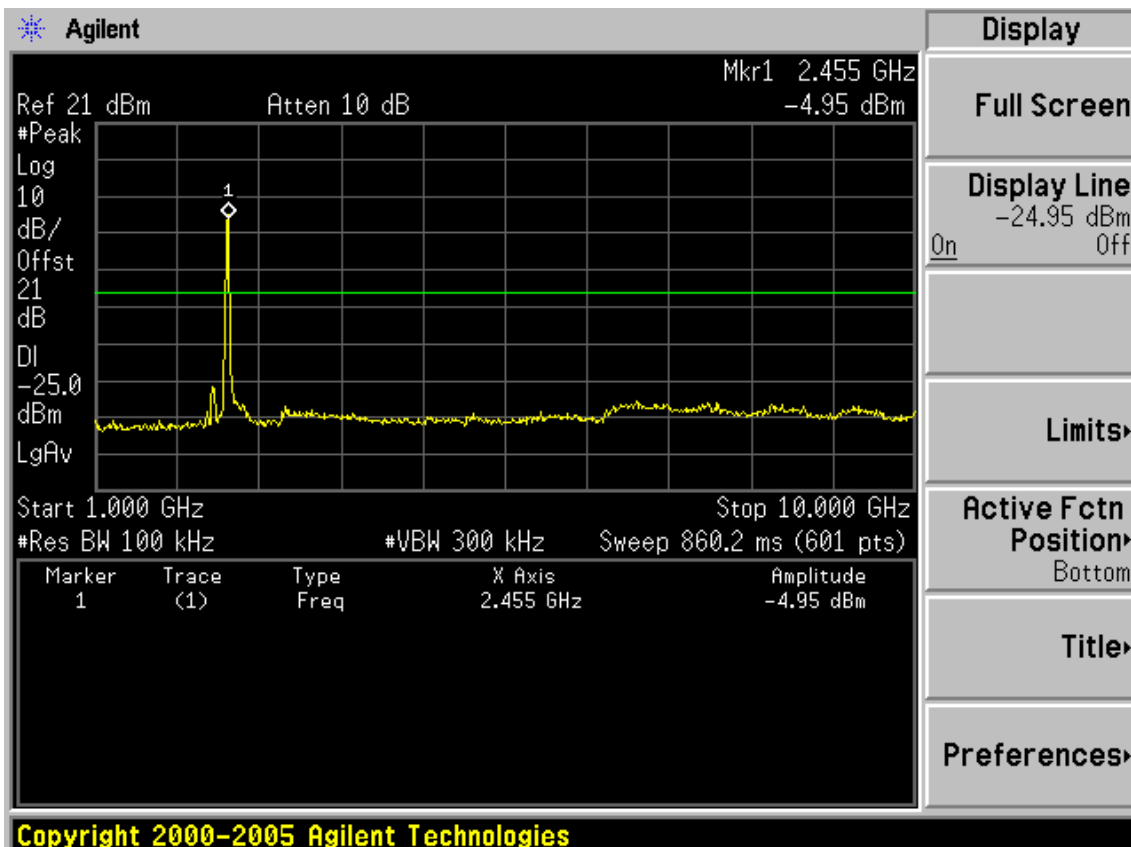
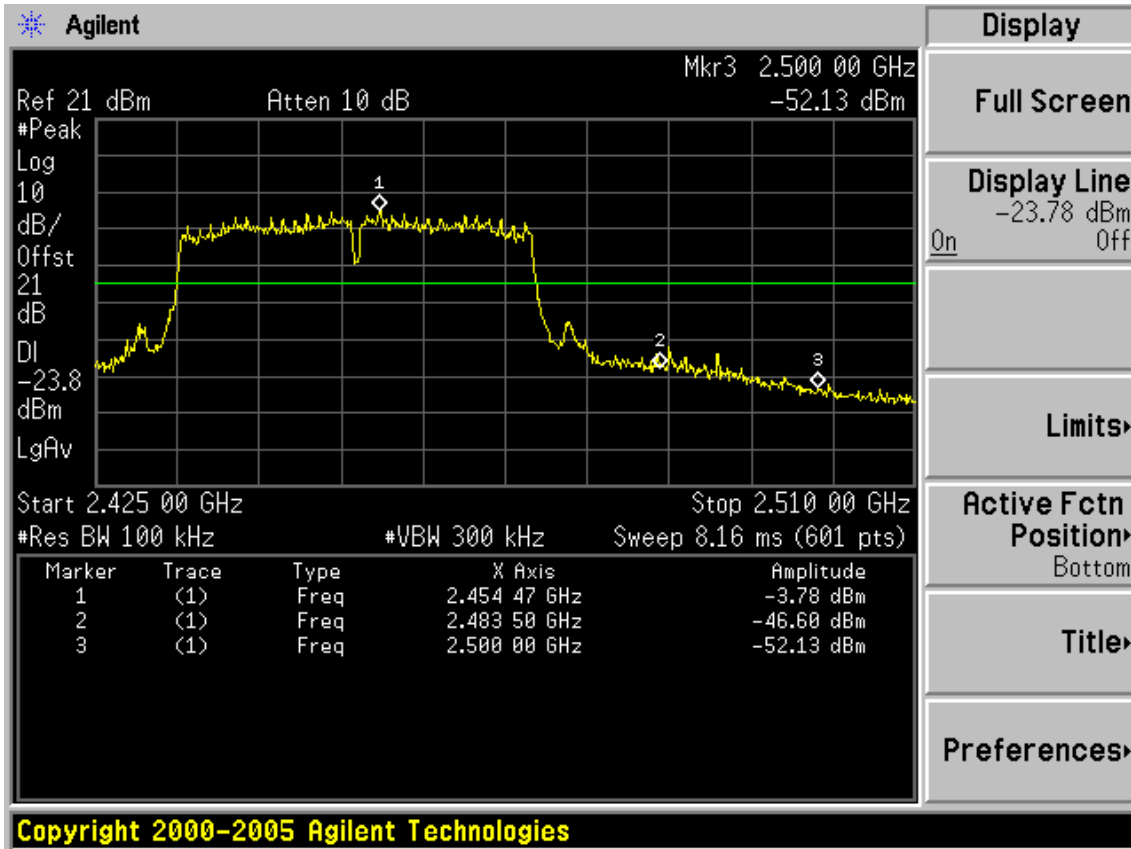


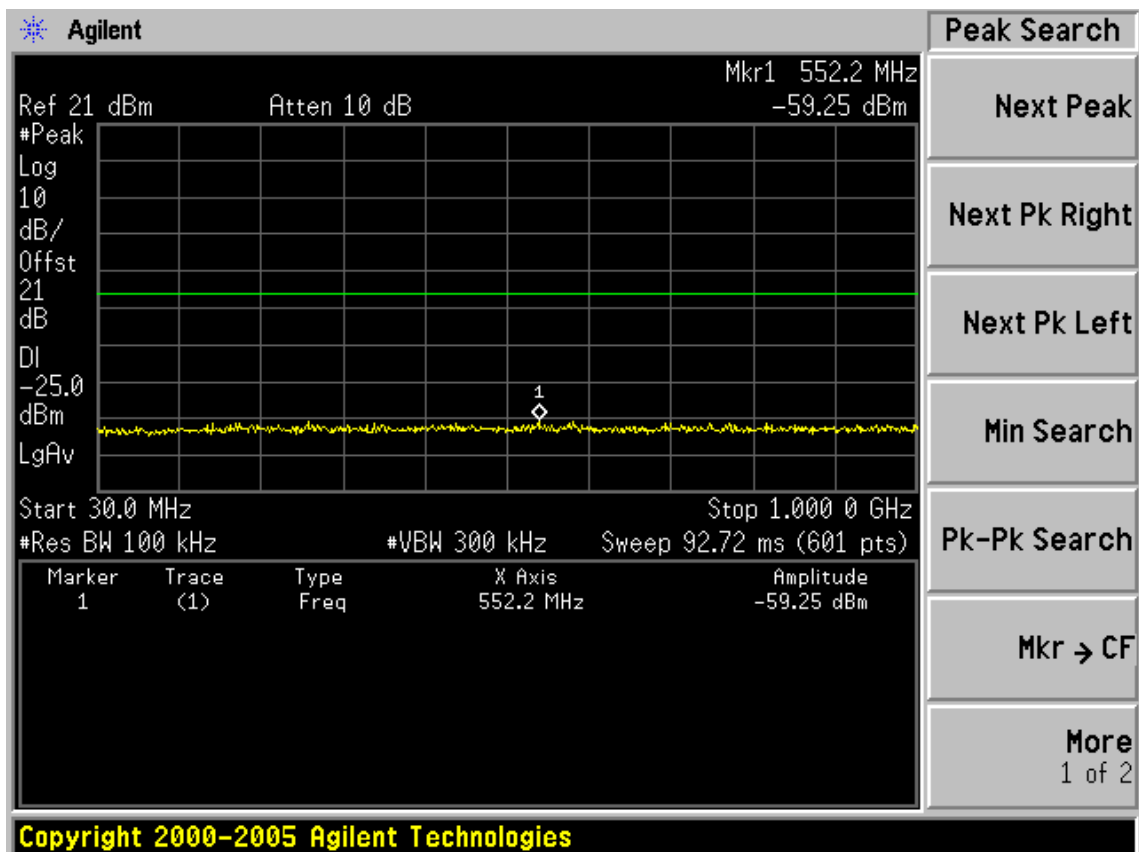
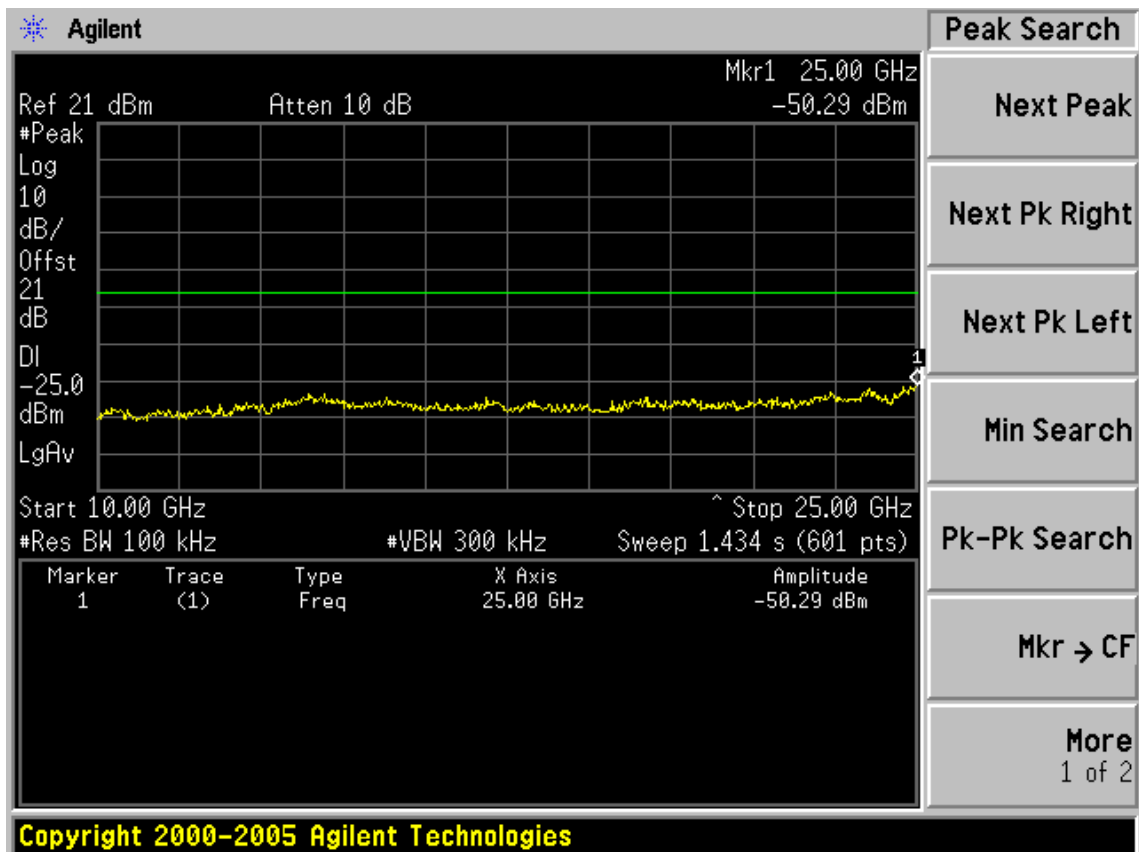
Test CH4: 2437MHz





Test CH7: 2452MHz





6. BAND EDGE COMPLIANCE TEST

6.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	May.08, 12	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 12	1 Year
3.	Antenna	EMCO	3115	9510-4580	May.08, 12	1Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 12	1 Year

6.2. Limit

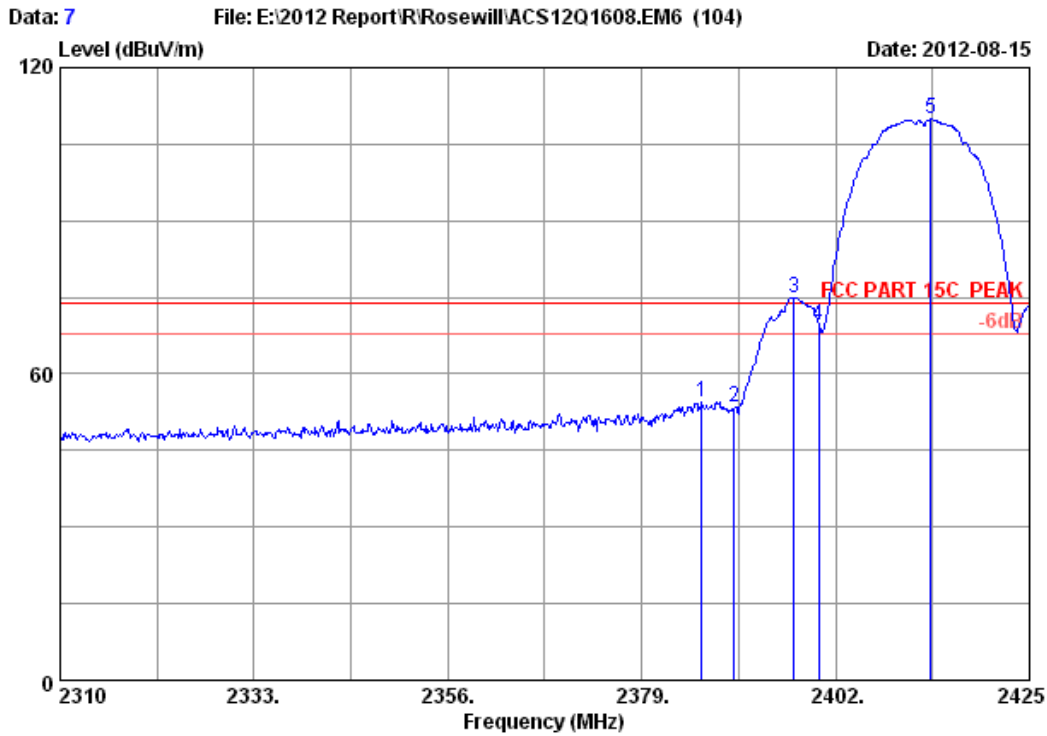
All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

6.3. Test Produce

1. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=1MHz; VBW=3MHz ;Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz ;VBW=10Hz ; Sweep=AUTO

6.4. Test Results

Pass (The testing data was attached in the next pages.)

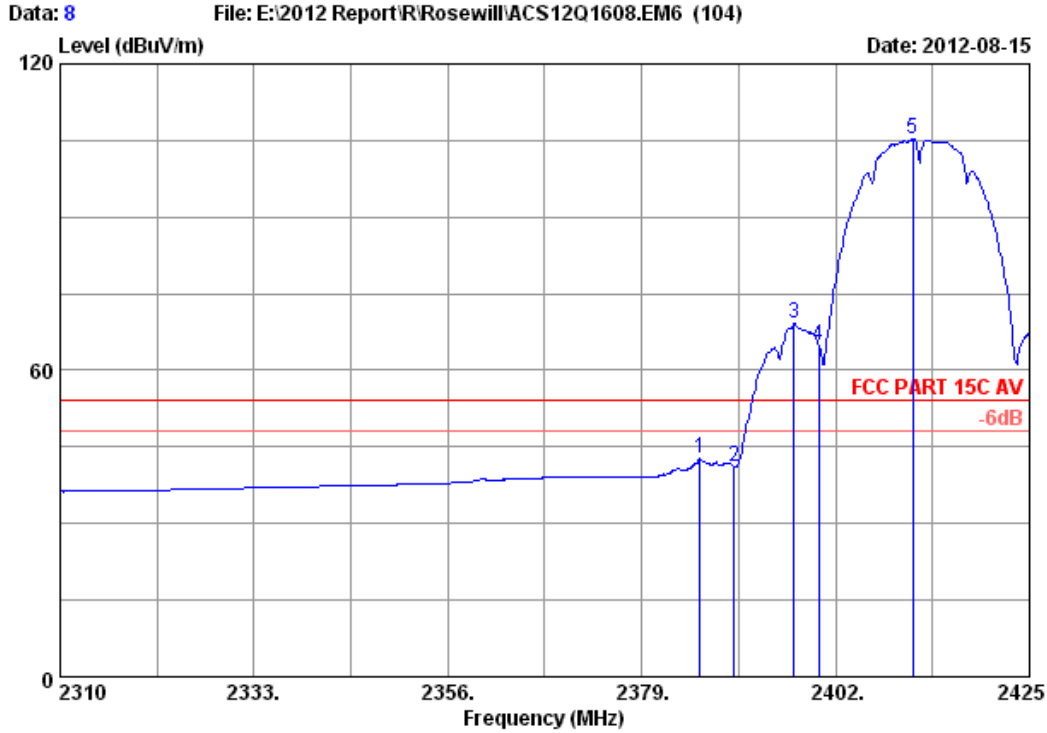


Site no. : 3m Chamber Data no. : 7
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : RNX-N360RT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2386.130	27.96	6.01	34.44	54.93	54.46	74.00	19.54	Peak
2	2390.000	27.96	6.01	34.44	53.92	53.45	74.00	20.55	Peak
3	2397.055	27.96	6.01	34.44	75.50	75.03	74.00	-1.03	Peak
4	2400.000	27.96	6.01	34.44	69.85	69.38	74.00	4.62	Peak
5	2413.270	27.98	6.03	34.44	110.31	109.88	74.00	-35.88	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

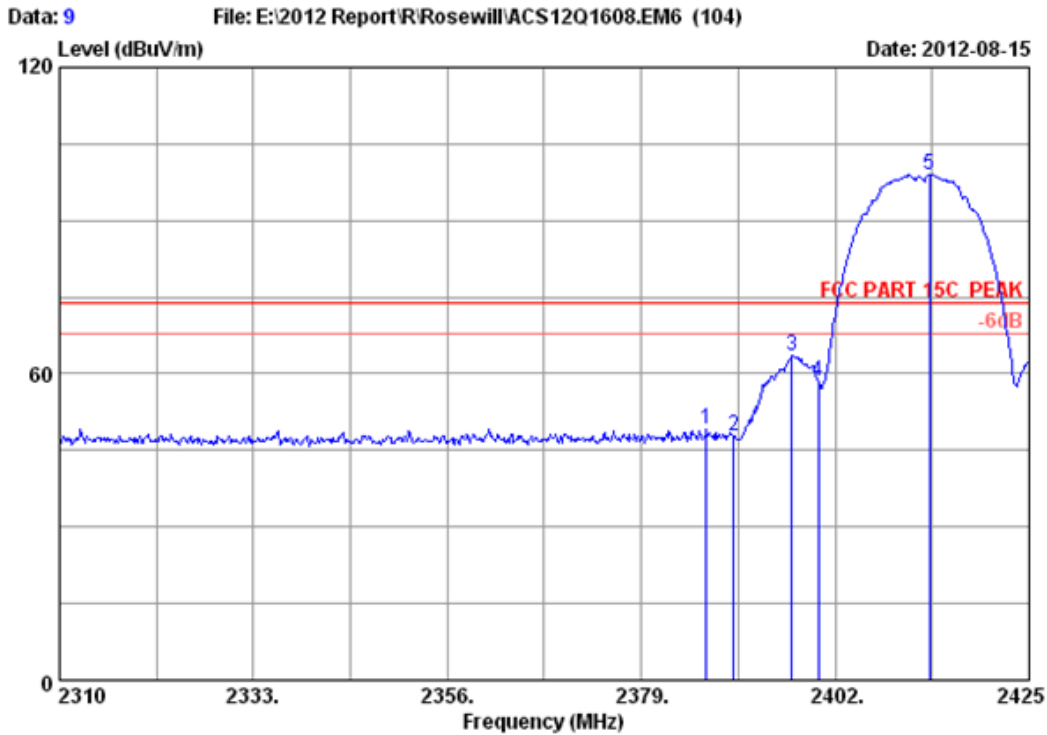


Site no. : 3m Chamber Data no. : 8
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23*C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : RNX-N360RT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2385.900	27.96	6.01	34.44	43.16	42.69	54.00	11.31	Average
2	2390.000	27.96	6.01	34.44	41.57	41.10	54.00	12.90	Average
3	2397.055	27.96	6.01	34.44	69.69	69.22	54.00	-15.22	Average
4	2400.000	27.96	6.01	34.44	65.22	64.75	54.00	-10.75	Average
5	2411.200	27.98	6.03	34.44	105.70	105.27	54.00	-51.27	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

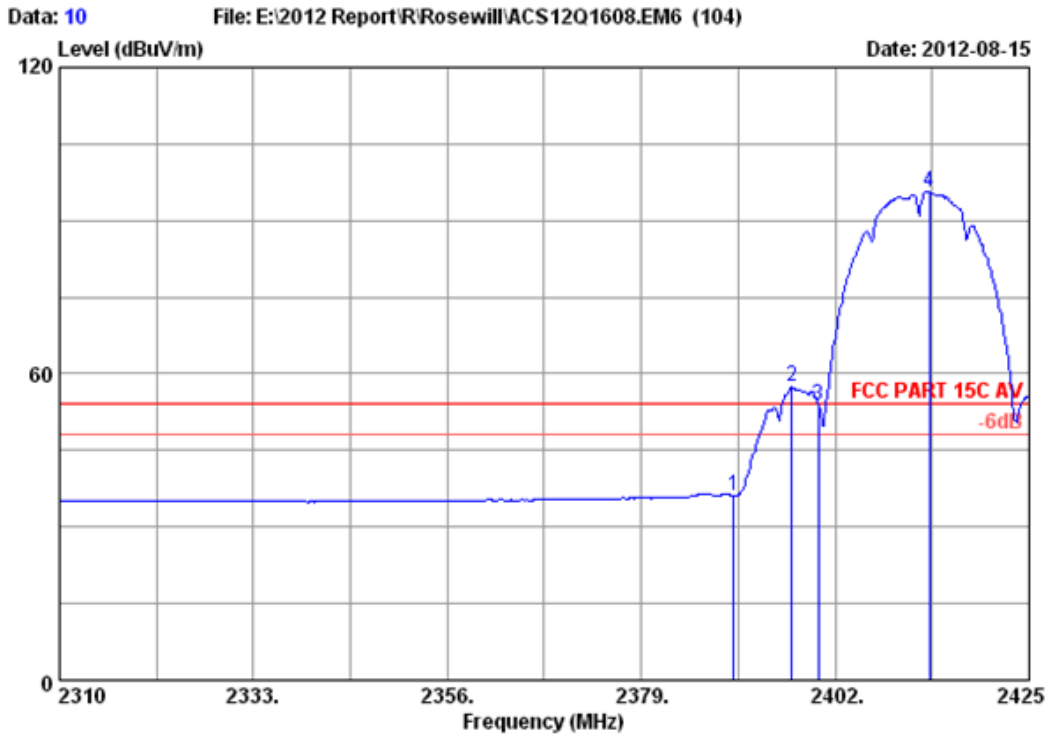


Site no. : 3m Chamber Data no. : 9
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : RNX-N360RT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2386.705	27.96	6.01	34.44	49.57	49.10	74.00	24.90	Peak
2	2390.000	27.96	6.01	34.44	48.11	47.64	74.00	26.36	Peak
3	2396.825	27.96	6.01	34.44	64.11	63.64	74.00	10.36	Peak
4	2400.000	27.96	6.01	34.44	59.04	58.57	74.00	15.43	Peak
5	2413.155	27.98	6.03	34.44	99.35	98.92	74.00	-24.92	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

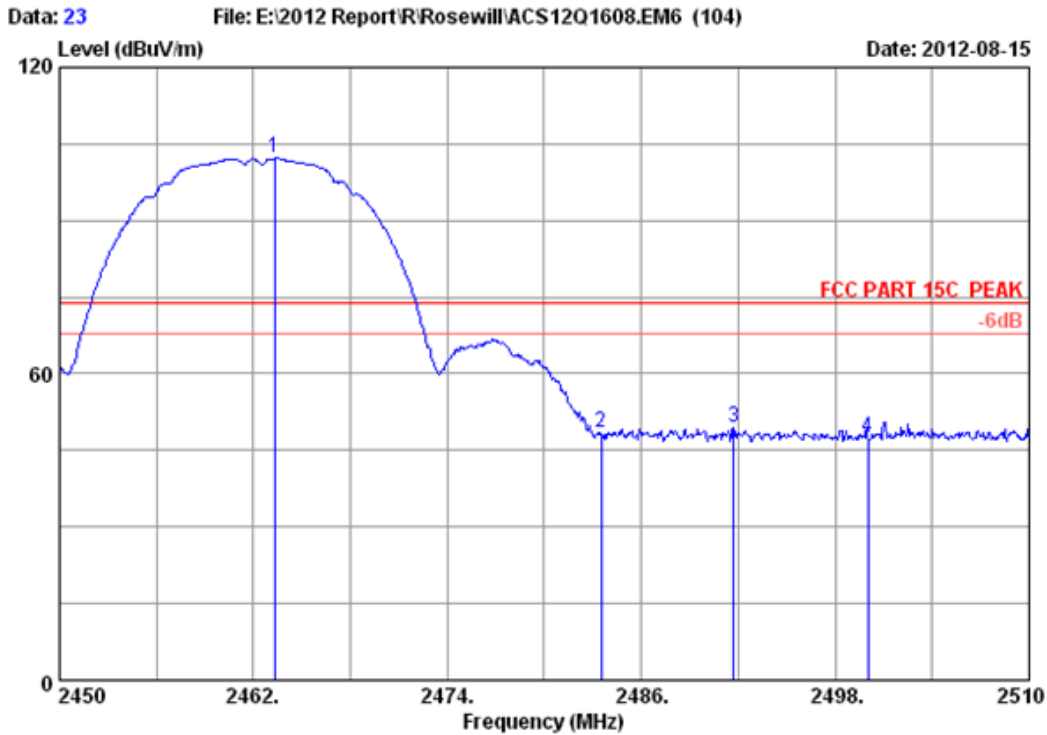


Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH1 2412MHz Tx
 M/N : RNX-N360RT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	27.96	6.01	34.44	36.53	36.06	54.00	17.94	Average
2	2396.825	27.96	6.01	34.44	57.83	57.36	54.00	-3.36	Average
3	2400.000	27.96	6.01	34.44	54.18	53.71	54.00	0.29	Average
4	2413.155	27.98	6.03	34.44	96.05	95.62	54.00	-41.62	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

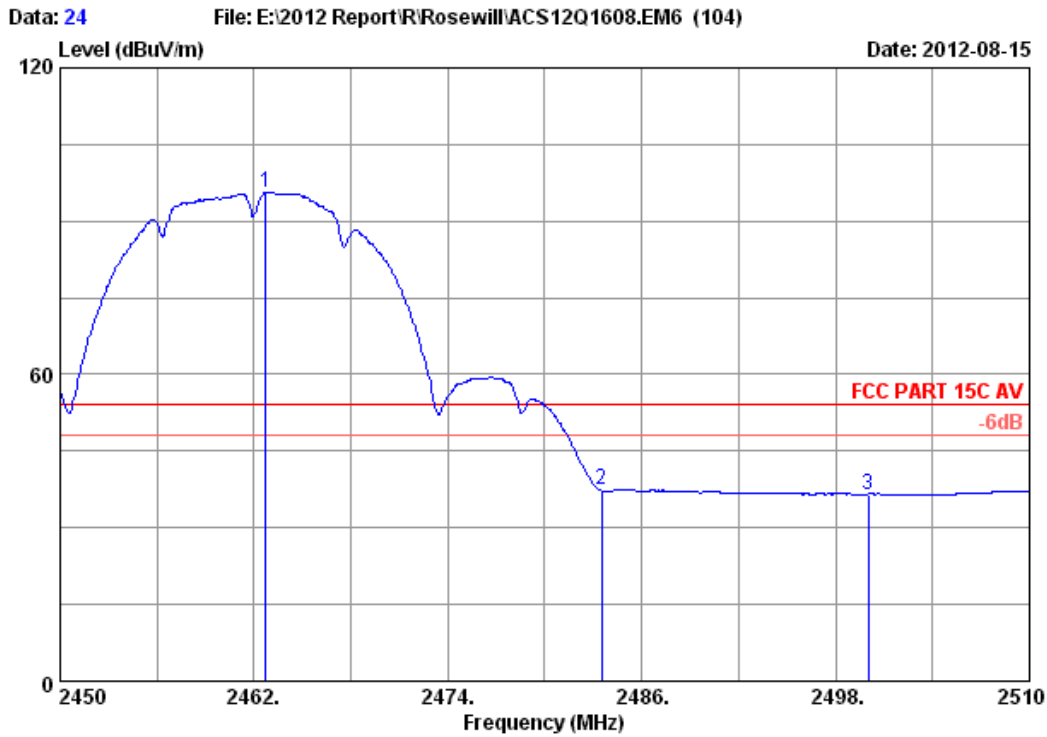


Site no. : 3m Chamber Data no. : 23
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : RNX-N360RT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2463.320	28.05	6.12	34.45	102.44	102.16	74.00	-28.16	Peak
2	2483.500	28.08	6.15	34.45	48.66	48.44	74.00	25.56	Peak
3	2491.700	28.10	6.15	34.45	49.78	49.58	74.00	24.42	Peak
4	2500.000	28.10	6.18	34.45	47.79	47.62	74.00	26.38	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

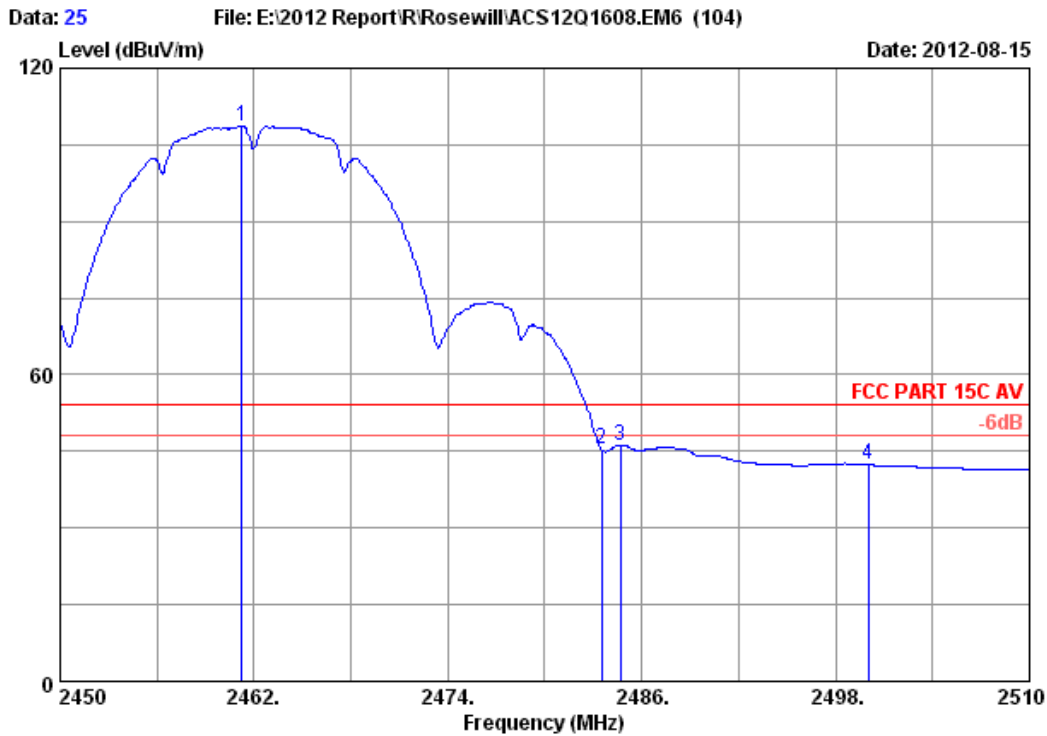


Site no. : 3m Chamber Data no. : 24
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23*C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : RNX-N360RT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.720	28.05	6.12	34.45	95.83	95.55	54.00	-41.55	Average
2	2483.500	28.08	6.15	34.45	37.52	37.30	54.00	16.70	Average
3	2500.000	28.10	6.18	34.45	36.77	36.60	54.00	17.40	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

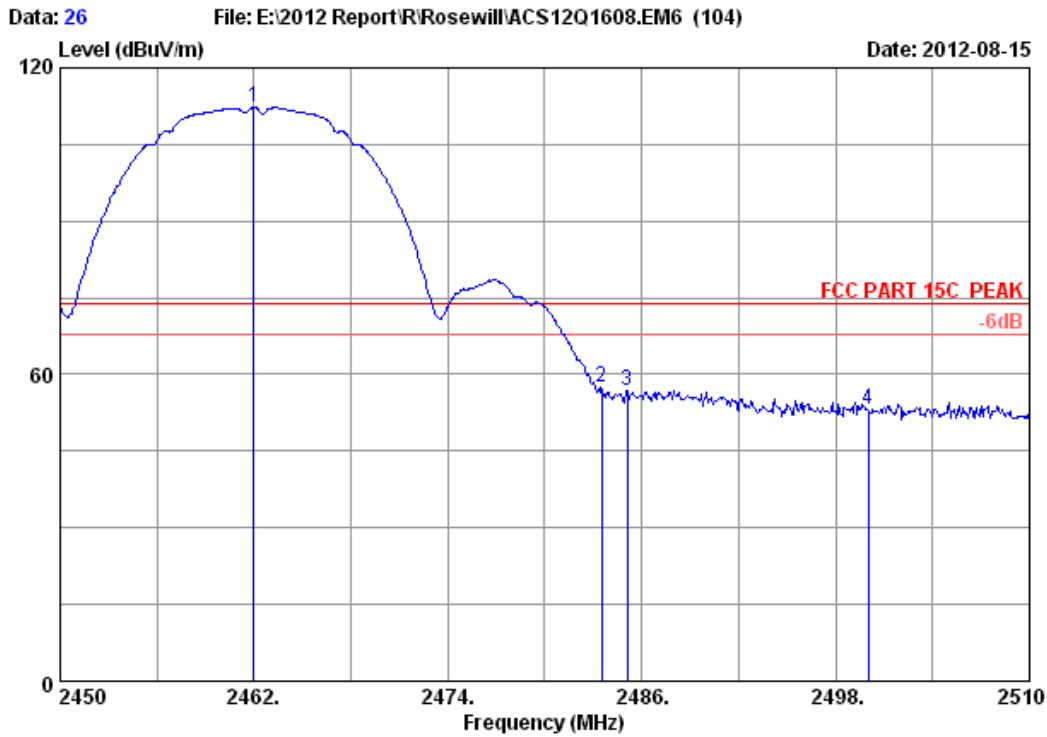


Site no. : 3m Chamber Data no. : 25
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : RNX-N360RT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2461.220	28.05	6.12	34.44	109.01	108.74	54.00	-54.74	Average
2	2483.500	28.08	6.15	34.45	45.64	45.42	54.00	8.58	Average
3	2484.680	28.08	6.15	34.45	46.47	46.25	54.00	7.75	Average
4	2500.000	28.10	6.18	34.45	42.59	42.42	54.00	11.58	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

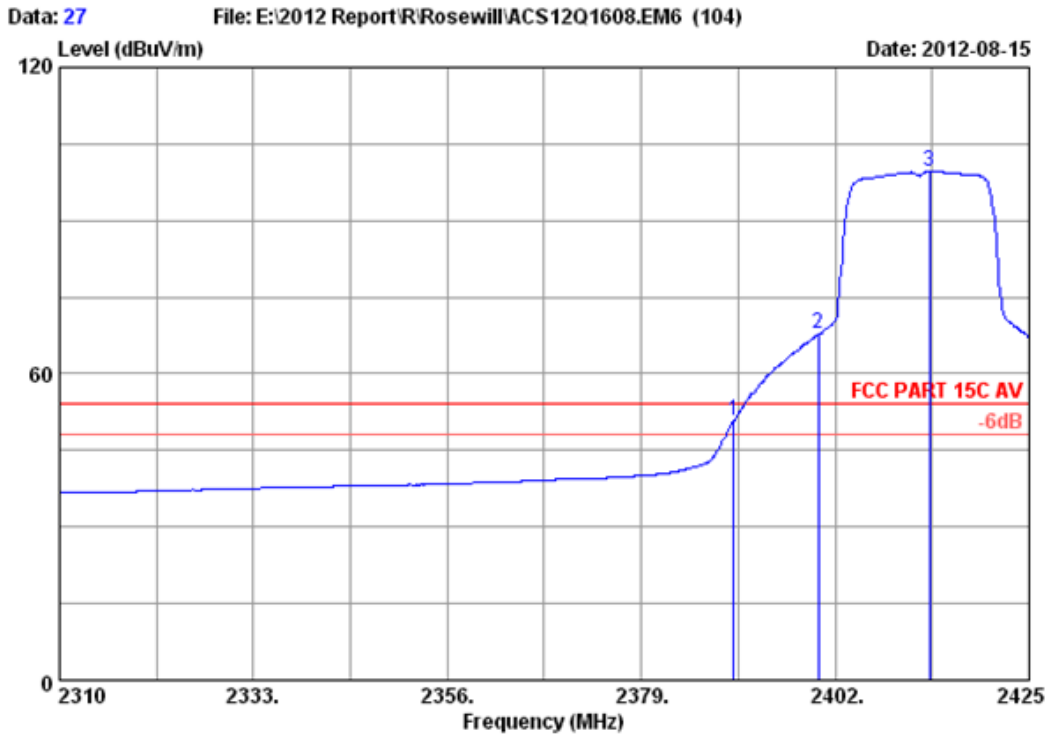


Site no. : 3m Chamber Data no. : 26
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11b CH11 2462MHz Tx
 M/N : RNX-N360RT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.000	28.05	6.12	34.44	112.47	112.20	74.00	-38.20	Peak
2	2483.500	28.08	6.15	34.45	57.75	57.53	74.00	16.47	Peak
3	2485.100	28.08	6.15	34.45	57.19	56.97	74.00	17.03	Peak
4	2500.000	28.10	6.18	34.45	53.17	53.00	74.00	21.00	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

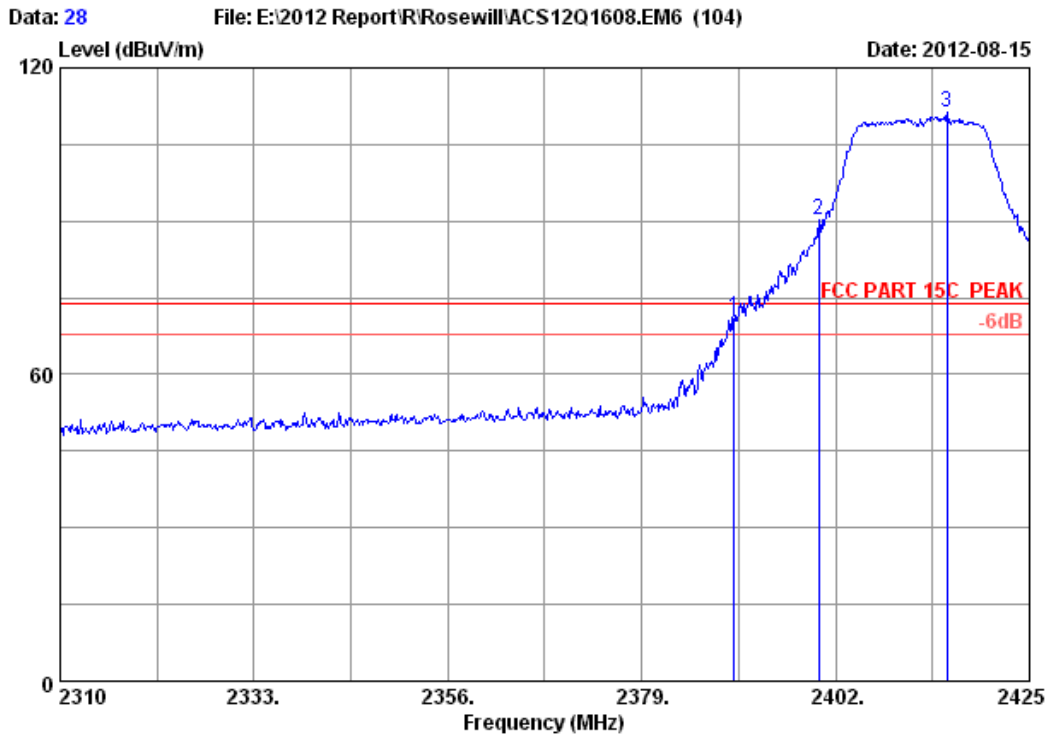


Site no. : 3m Chamber Data no. : 27
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : RNX-N360RT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	27.96	6.01	34.44	51.35	50.88	54.00	3.12	Average
2	2400.000	27.96	6.01	34.44	68.18	67.71	54.00	-13.71	Average
3	2413.155	27.98	6.03	34.44	99.98	99.55	54.00	-45.55	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

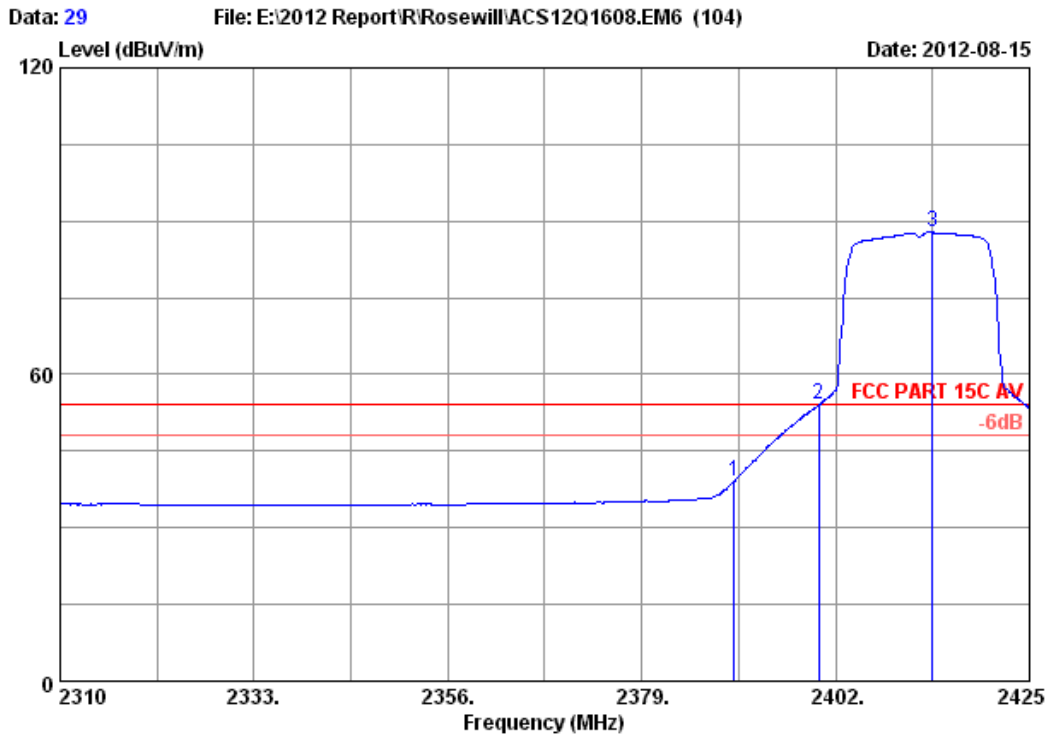


Site no. : 3m Chamber Data no. : 28
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : RNX-N360RT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	27.96	6.01	34.44	71.77	71.30	74.00	2.70	Peak
2	2400.000	27.96	6.01	34.44	90.55	90.08	74.00	-16.08	Peak
3	2415.225	27.98	6.03	34.44	111.60	111.17	74.00	-37.17	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

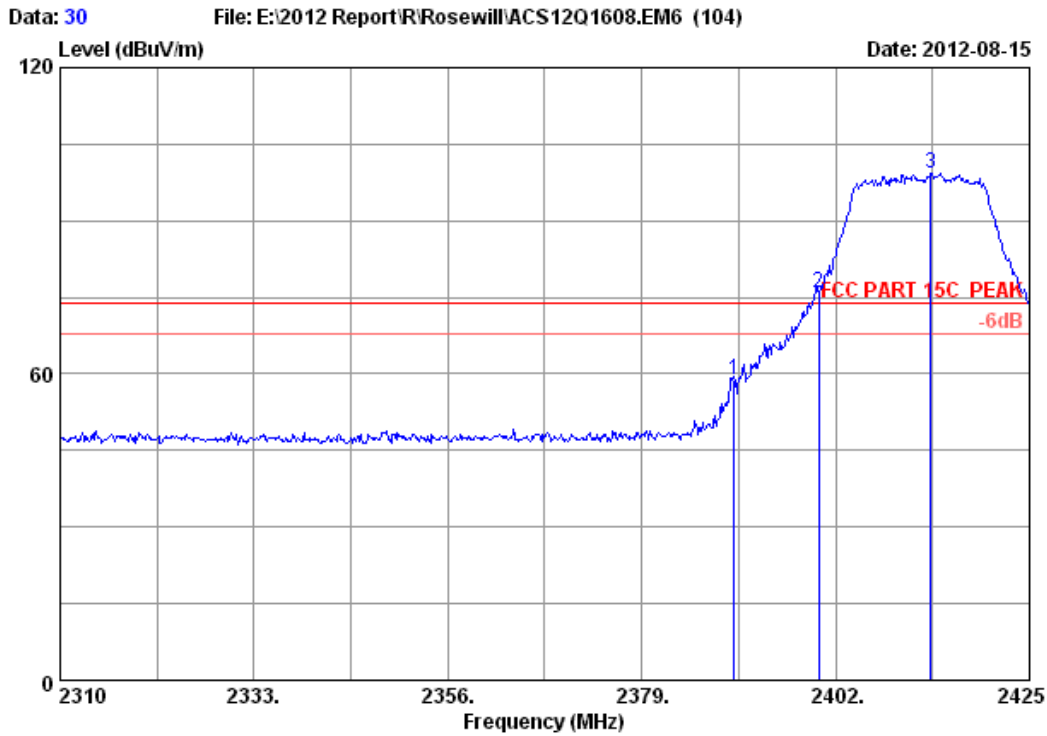


Site no. : 3m Chamber Data no. : 29
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : RNX-N360RT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2390.000	27.96	6.01	34.44	39.67	39.20	54.00	14.80	Average
2	2400.000	27.96	6.01	34.44	54.63	54.16	54.00	-0.16	Average
3	2413.500	27.98	6.03	34.44	88.21	87.78	54.00	-33.78	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

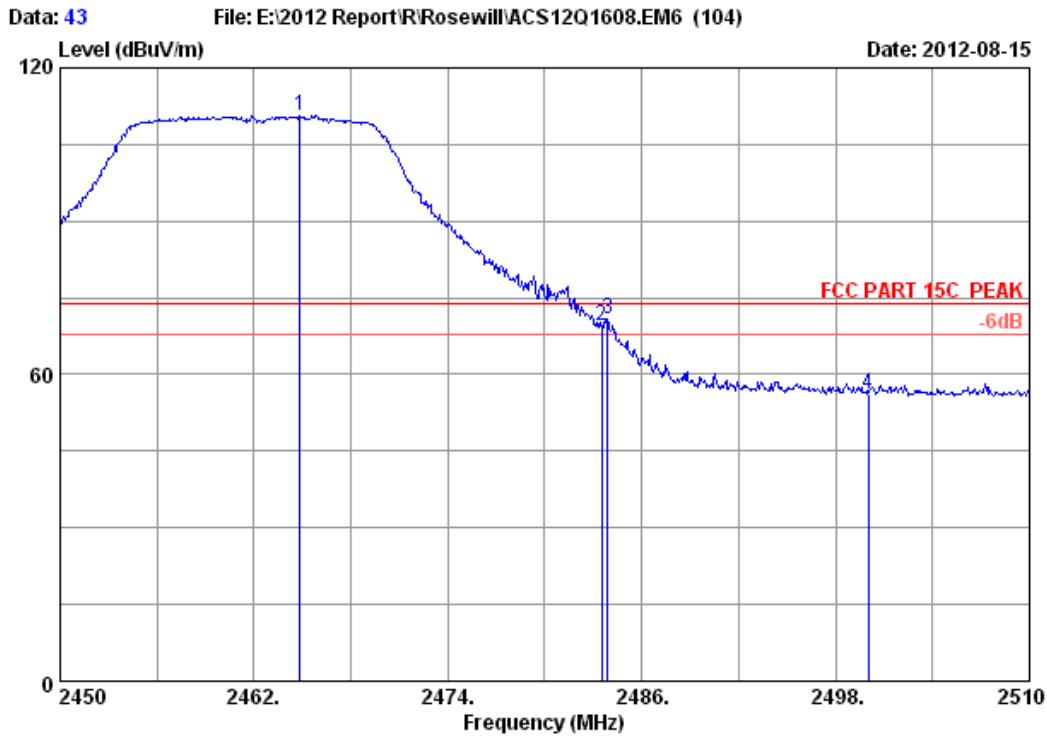


Site no. : 3m Chamber Data no. : 30
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH1 2412MHz Tx
 M/N : RNX-N360RT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	27.96	6.01	34.44	59.44	58.97	74.00	15.03	Peak
2	2400.000	27.96	6.01	34.44	76.31	75.84	74.00	-1.84	Peak
3	2413.270	27.98	6.03	34.44	99.82	99.39	74.00	-25.39	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

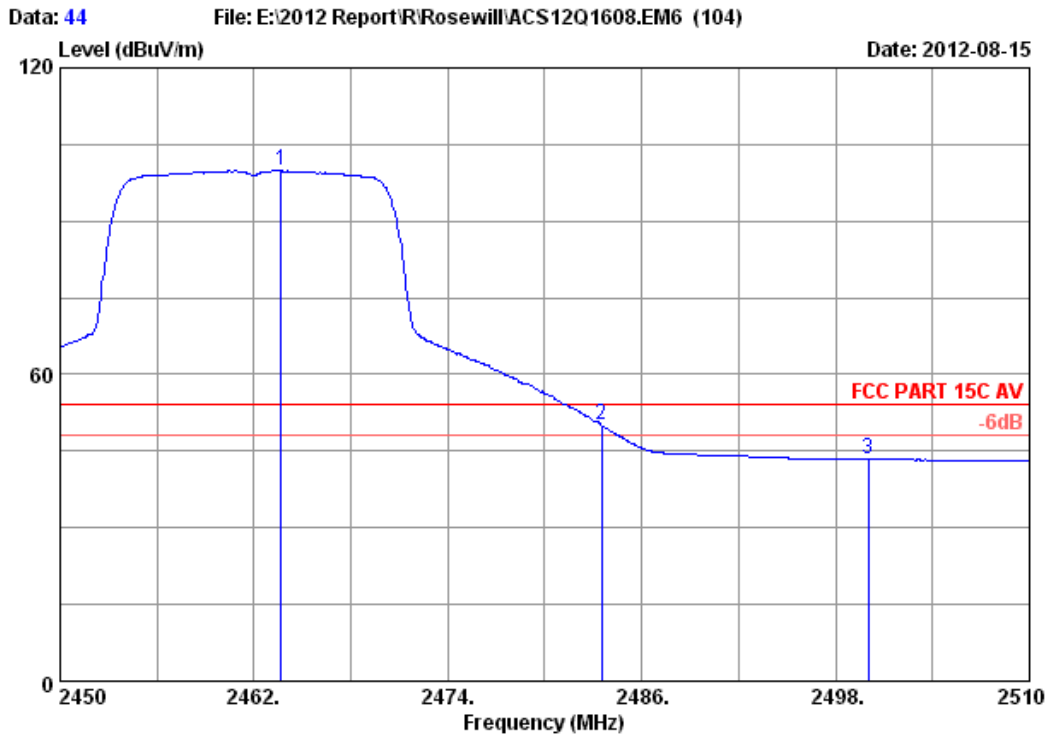


Site no. : 3m Chamber Data no. : 43
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : RNX-N360RT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2464.820	28.05	6.12	34.45	110.94	110.66	74.00	-36.66	Peak
2	2483.500	28.08	6.15	34.45	69.86	69.64	74.00	4.36	Peak
3	2483.900	28.08	6.15	34.45	71.20	70.98	74.00	3.02	Peak
4	2500.000	28.10	6.18	34.45	56.46	56.29	74.00	17.71	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

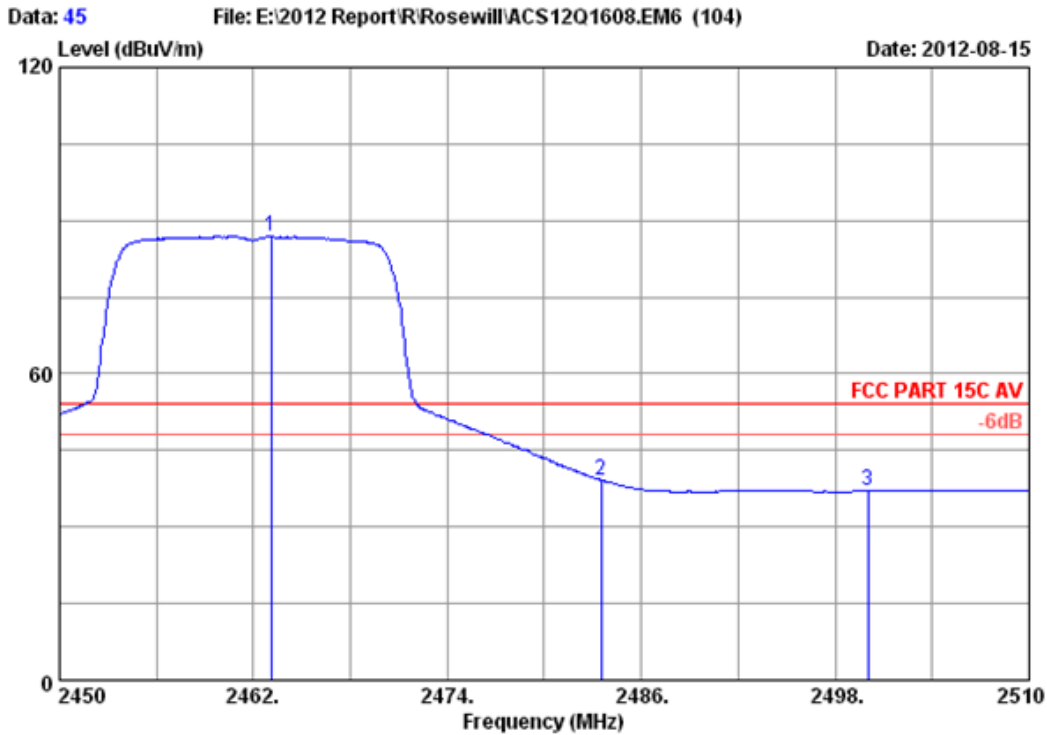


Site no. : 3m Chamber Data no. : 44
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : RNX-N360RT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2463.680	28.05	6.12	34.45	100.12	99.84	54.00	-45.84	Average
2	2483.500	28.08	6.15	34.45	50.31	50.09	54.00	3.91	Average
3	2500.000	28.10	6.18	34.45	43.58	43.41	54.00	10.59	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

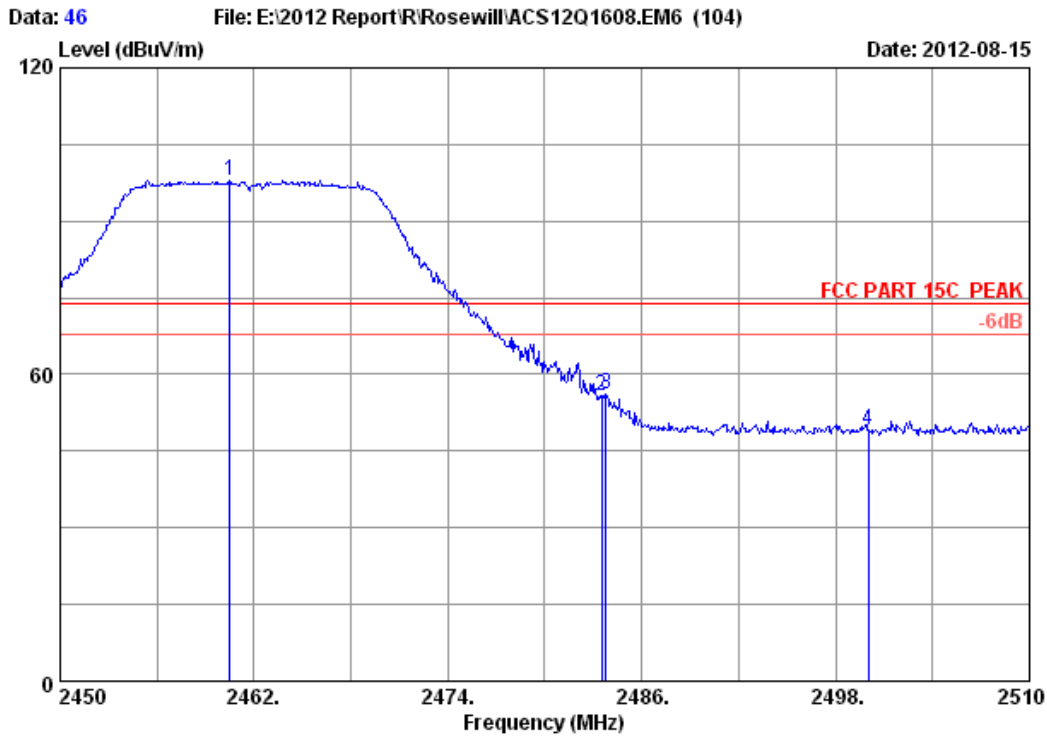


Site no. : 3m Chamber Data no. : 45
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : RNX-N360RT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2463.080	28.05	6.12	34.45	87.19	86.91	54.00	-32.91	Average
2	2483.500	28.08	6.15	34.45	39.43	39.21	54.00	14.79	Average
3	2500.000	28.10	6.18	34.45	37.15	36.98	54.00	17.02	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

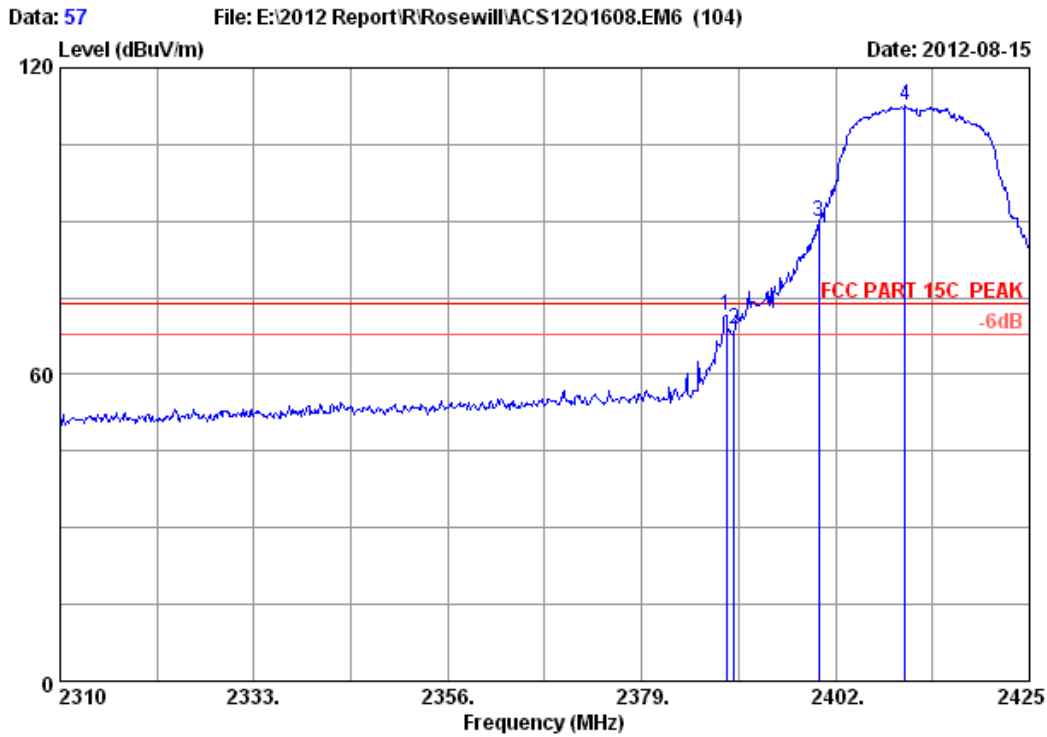


Site no. : 3m Chamber Data no. : 46
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11g CH11 2462MHz Tx
 M/N : RNX-N360RT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.500	28.05	6.12	34.44	98.24	97.97	74.00	-23.97	Peak
2	2483.500	28.08	6.15	34.45	55.93	55.71	74.00	18.29	Peak
3	2483.780	28.08	6.15	34.45	56.22	56.00	74.00	18.00	Peak
4	2500.000	28.10	6.18	34.45	49.27	49.10	74.00	24.90	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

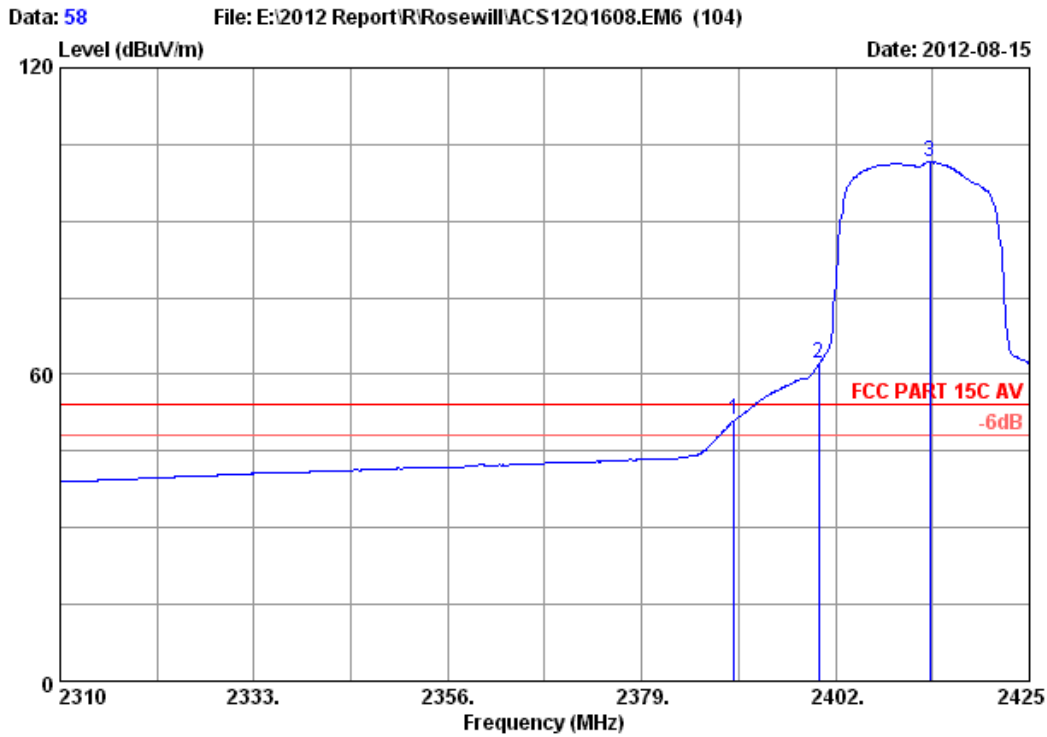


Site no. : 3m Chamber Data no. : 57
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH1 2412MHz Tx
 M/N : RNX-N360RT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2389.005	27.96	6.01	34.44	71.93	71.46	74.00	2.54	Peak
2	2390.000	27.96	6.01	34.44	69.48	69.01	74.00	4.99	Peak
3	2400.000	27.96	6.01	34.44	90.44	89.97	74.00	-15.97	Peak
4	2410.280	27.98	6.03	34.44	113.00	112.57	74.00	-38.57	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

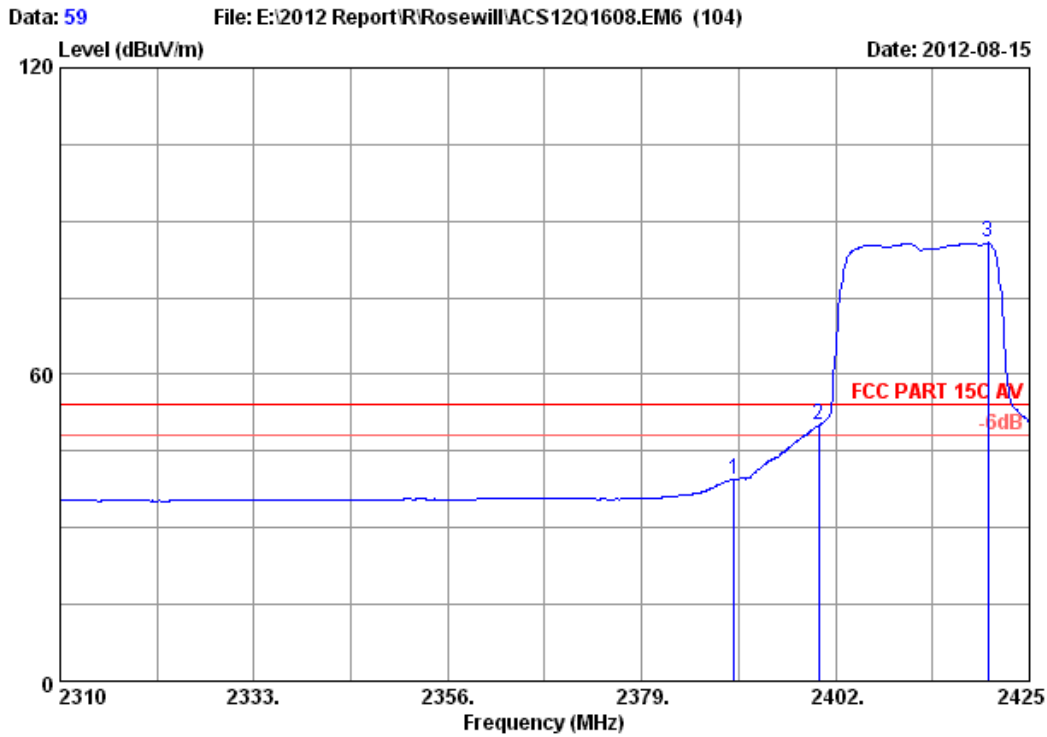


Site no. : 3m Chamber Data no. : 58
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH1 2412MHz Tx
 M/N : RNX-N360RT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2390.000	27.96	6.01	34.44	51.48	51.01	54.00	2.99	Average
2	2400.000	27.96	6.01	34.44	62.70	62.23	54.00	-8.23	Average
3	2413.155	27.98	6.03	34.44	102.01	101.58	54.00	-47.58	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

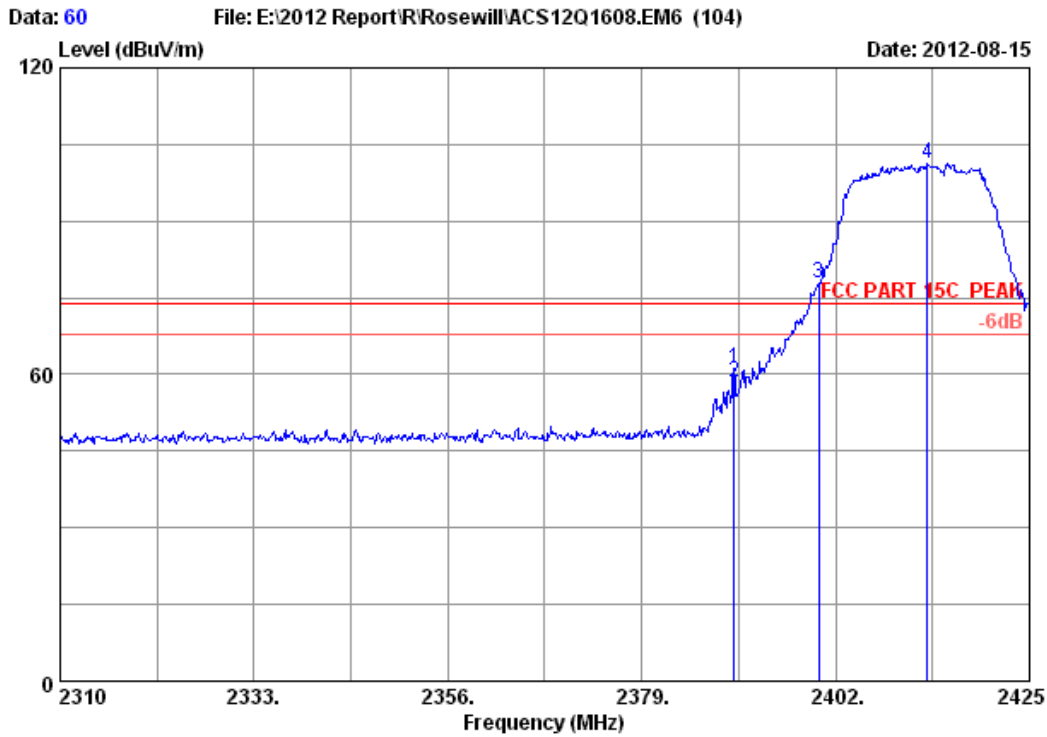


Site no. : 3m Chamber Data no. : 59
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH1 2412MHz Tx
 M/N : RNX-N360RT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	27.96	6.01	34.44	39.99	39.52	54.00	14.48	Average
2	2400.000	27.96	6.01	34.44	50.64	50.17	54.00	3.83	Average
3	2420.055	28.00	6.03	34.44	86.16	85.75	54.00	-31.75	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

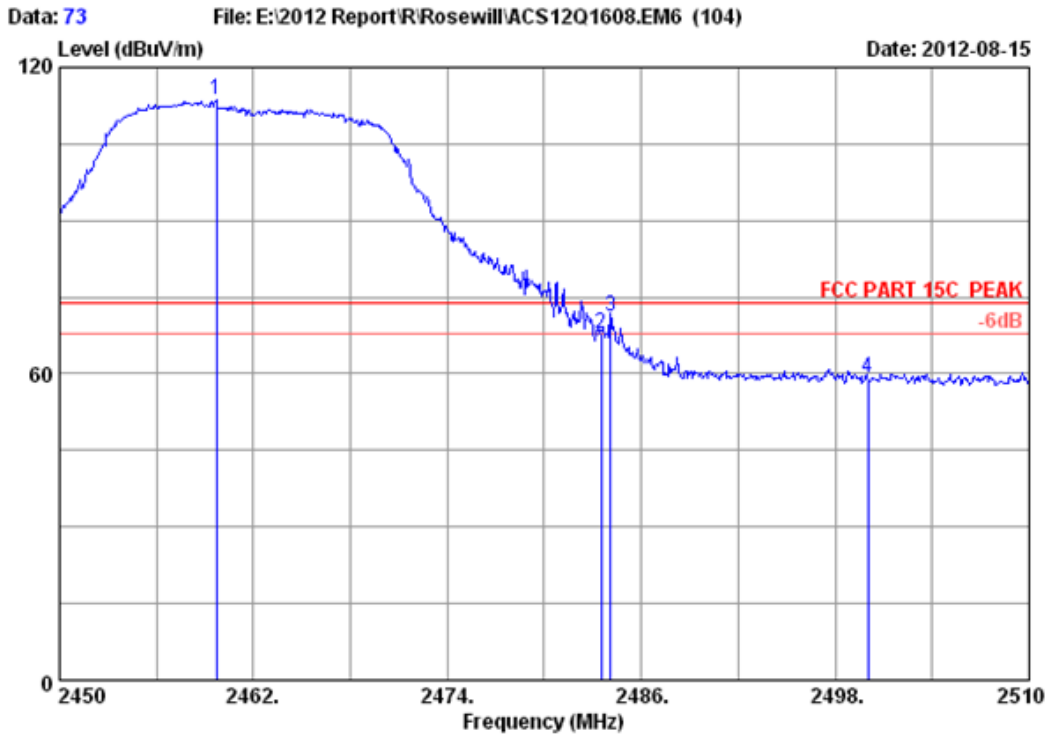


Site no. : 3m Chamber Data no. : 60
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH1 2412MHz Tx
 M/N : RNX-N360RT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2389.925	27.96	6.01	34.44	61.73	61.26	74.00	12.74	Peak
2	2390.000	27.96	6.01	34.44	59.06	58.59	74.00	15.41	Peak
3	2400.000	27.96	6.01	34.44	78.44	77.97	74.00	-3.97	Peak
4	2412.925	27.98	6.03	34.44	101.59	101.16	74.00	-27.16	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

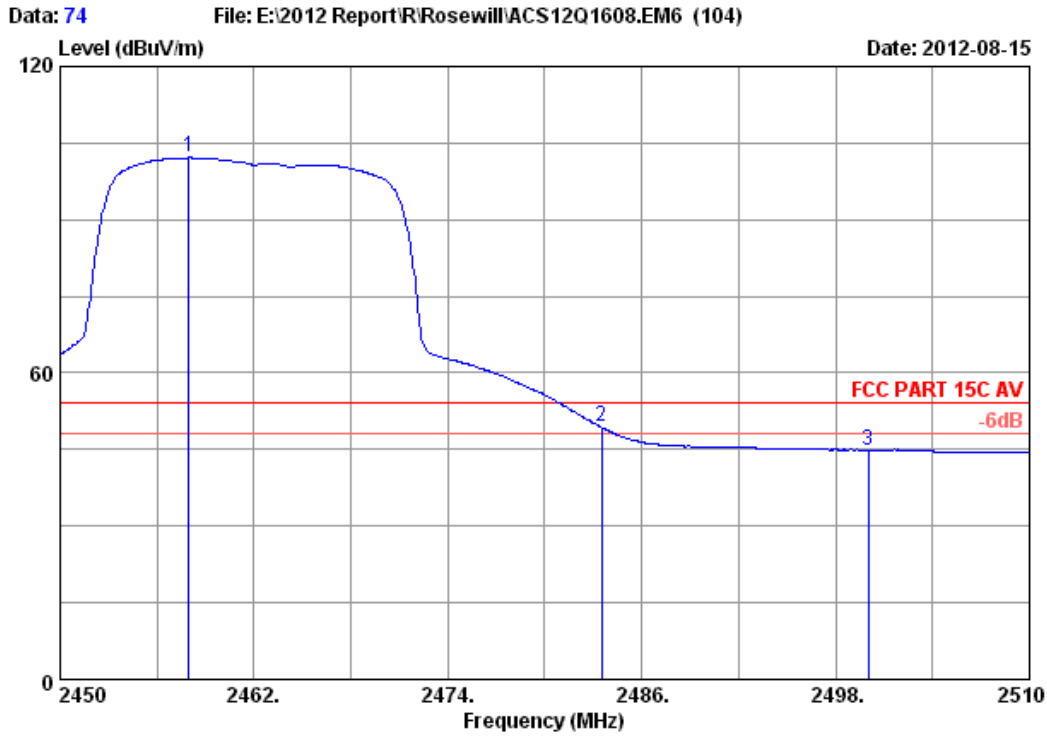


Site no. : 3m Chamber Data no. : 73
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH11 2462MHz Tx
 M/N : RNX-N360RT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2459.720	28.05	6.12	34.44	113.87	113.60	74.00	-39.60	Peak
2	2483.500	28.08	6.15	34.45	68.05	67.83	74.00	6.17	Peak
3	2484.080	28.08	6.15	34.45	71.50	71.28	74.00	2.72	Peak
4	2500.000	28.10	6.18	34.45	59.47	59.30	74.00	14.70	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

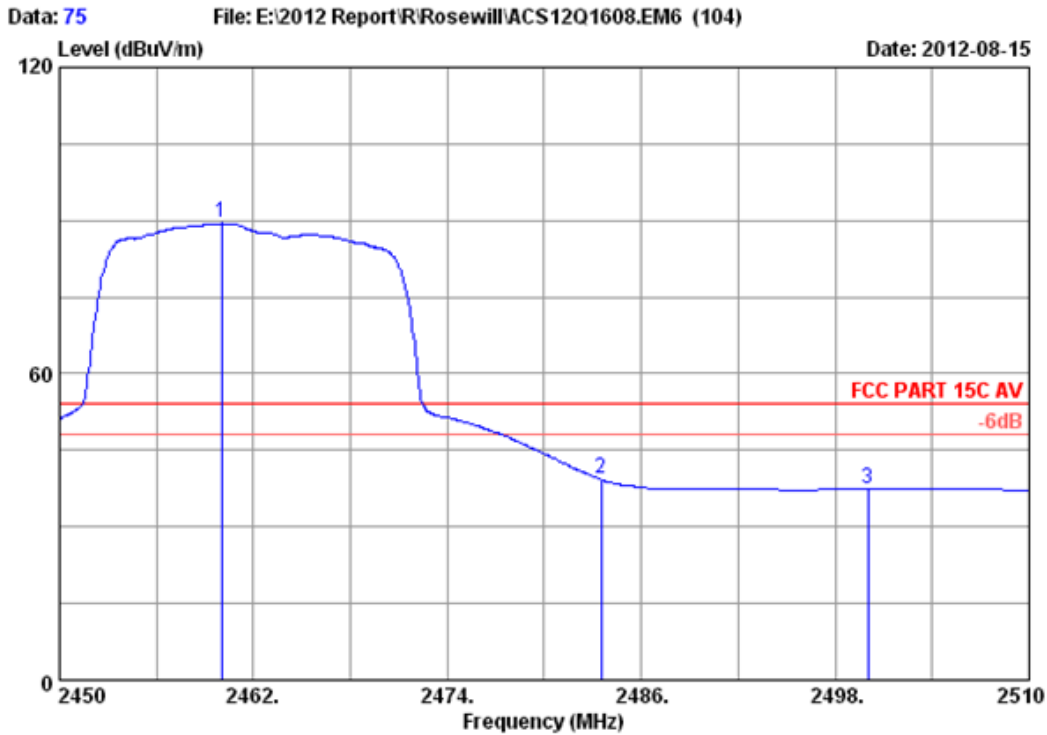


Site no. : 3m Chamber Data no. : 74
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH11 2462MHz Tx
 M/N : RNX-N360RT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2457.980	28.05	6.12	34.44	102.44	102.17	54.00	-48.17	Average
2	2483.500	28.08	6.15	34.45	49.56	49.34	54.00	4.66	Average
3	2500.000	28.10	6.18	34.45	45.10	44.93	54.00	9.07	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

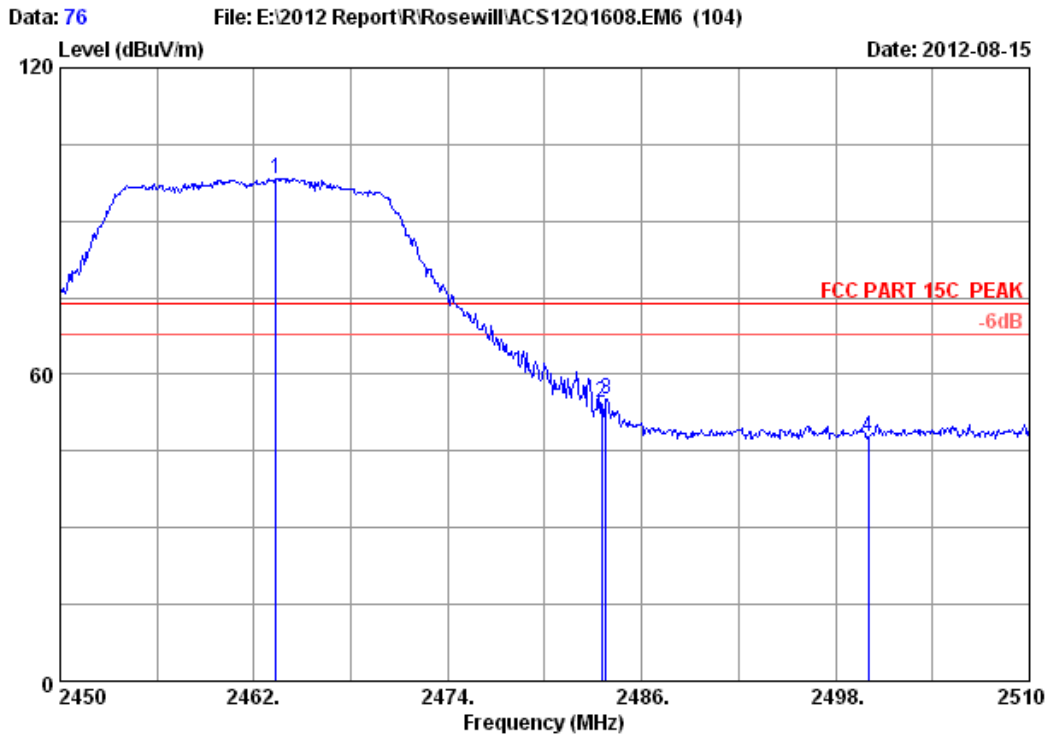


Site no. : 3m Chamber Data no. : 75
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH11 2462MHz Tx
 M/N : RNX-N360RT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.020	28.05	6.12	34.44	89.69	89.42	54.00	-35.42	Average
2	2483.500	28.08	6.15	34.45	39.51	39.29	54.00	14.71	Average
3	2500.000	28.10	6.18	34.45	37.67	37.50	54.00	16.50	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

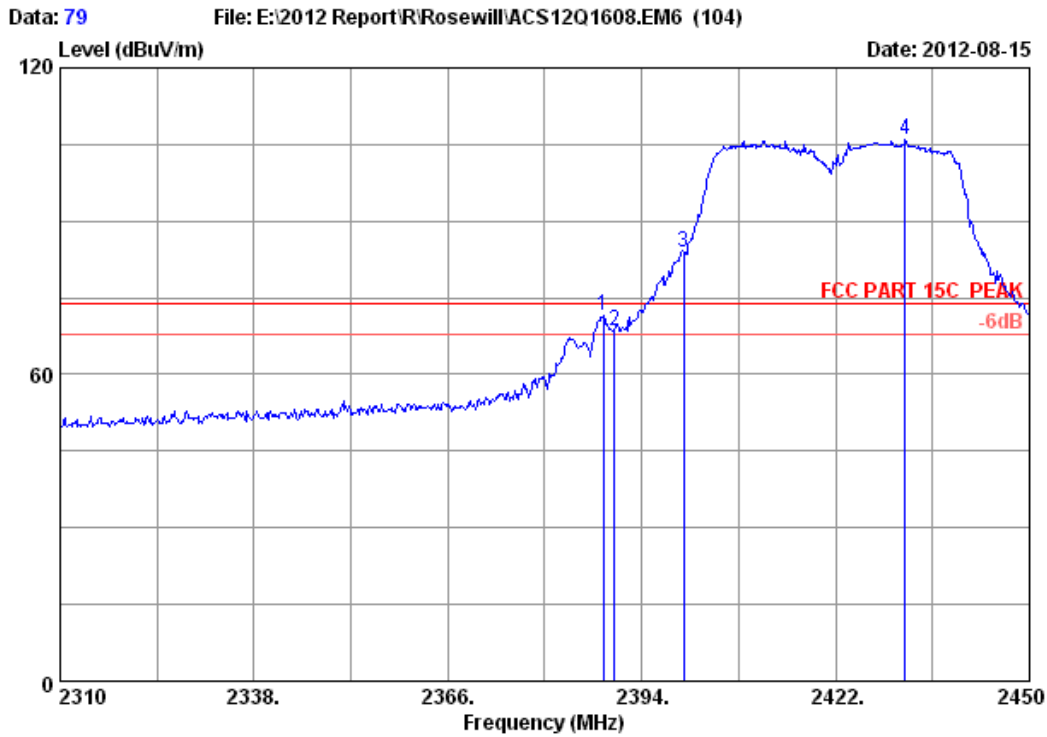


Site no. : 3m Chamber Data no. : 76
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT20 CH11 2462MHz Tx
 M/N : RNX-N360RT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2463.380	28.05	6.12	34.45	98.67	98.39	74.00	-24.39	Peak
2	2483.500	28.08	6.15	34.45	54.68	54.46	74.00	19.54	Peak
3	2483.780	28.08	6.15	34.45	55.47	55.25	74.00	18.75	Peak
4	2500.000	28.10	6.18	34.45	47.84	47.67	74.00	26.33	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

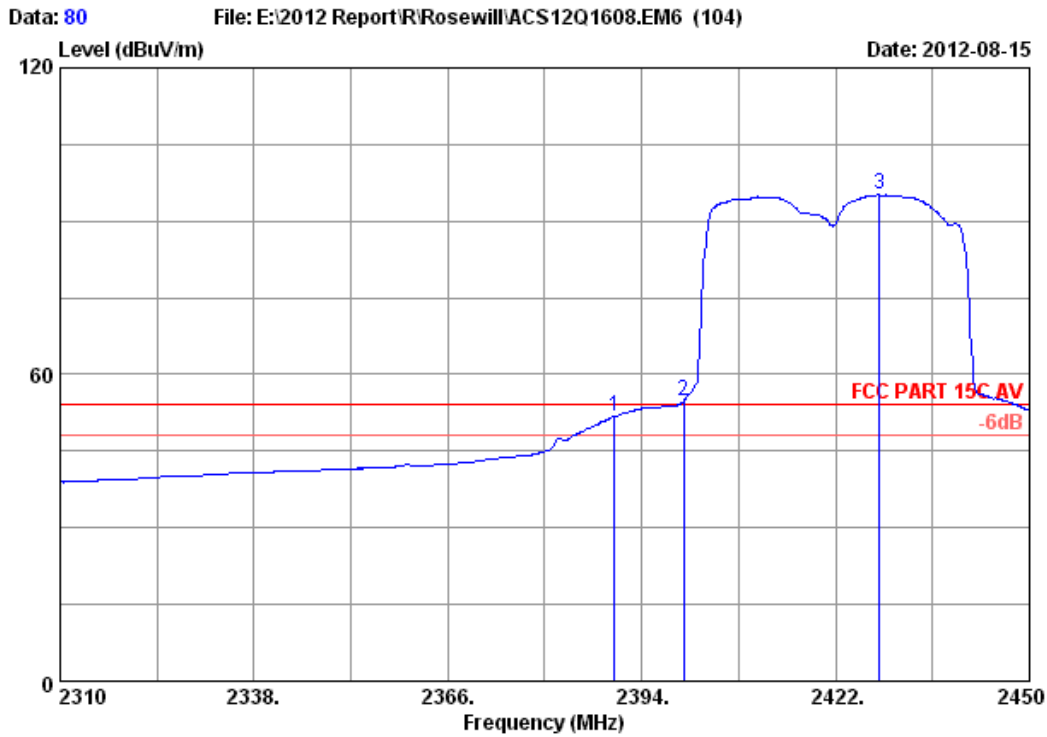


Site no. : 3m Chamber Data no. : 79
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH1 2422MHz Tx
 M/N : RNX-N360RT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2388.400	27.96	6.01	34.44	71.92	71.45	74.00	2.55	Peak
2	2390.000	27.96	6.01	34.44	69.13	68.66	74.00	5.34	Peak
3	2400.000	27.96	6.01	34.44	84.24	83.77	74.00	-9.77	Peak
4	2432.080	28.00	6.06	34.44	106.29	105.91	74.00	-31.91	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

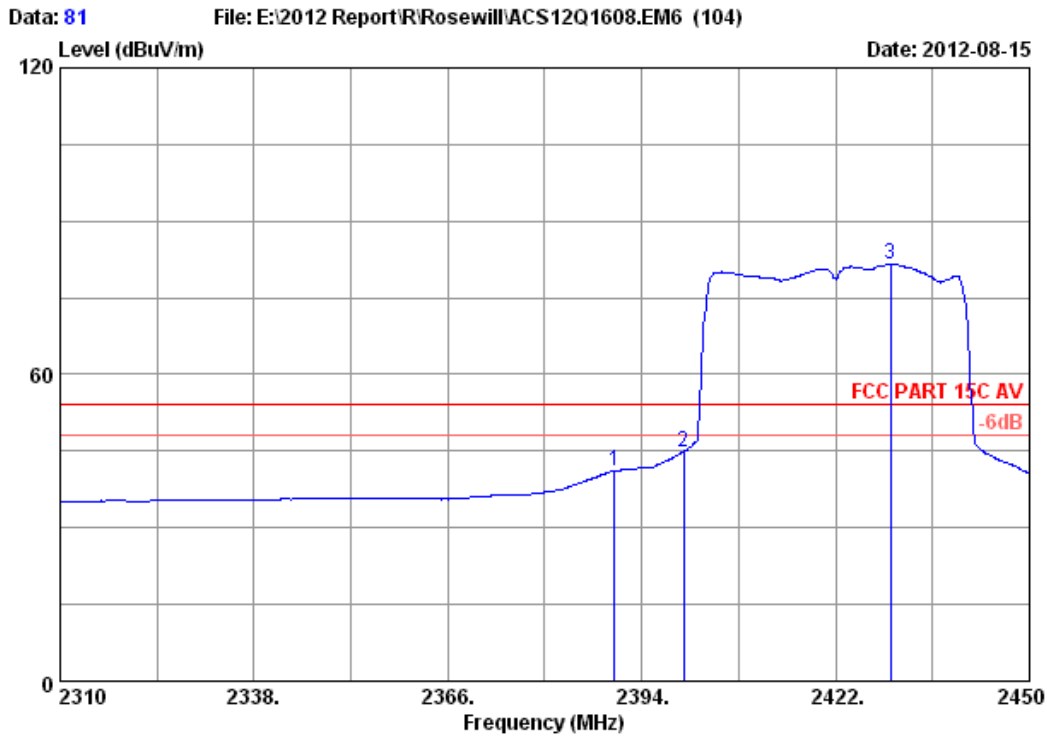


Site no. : 3m Chamber Data no. : 80
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH1 2422MHz Tx
 M/N : RNX-N360RT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	27.96	6.01	34.44	52.24	51.77	54.00	2.23	Average
2	2400.000	27.96	6.01	34.44	55.41	54.94	54.00	-0.94	Average
3	2428.300	28.00	6.06	34.44	95.56	95.18	54.00	-41.18	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

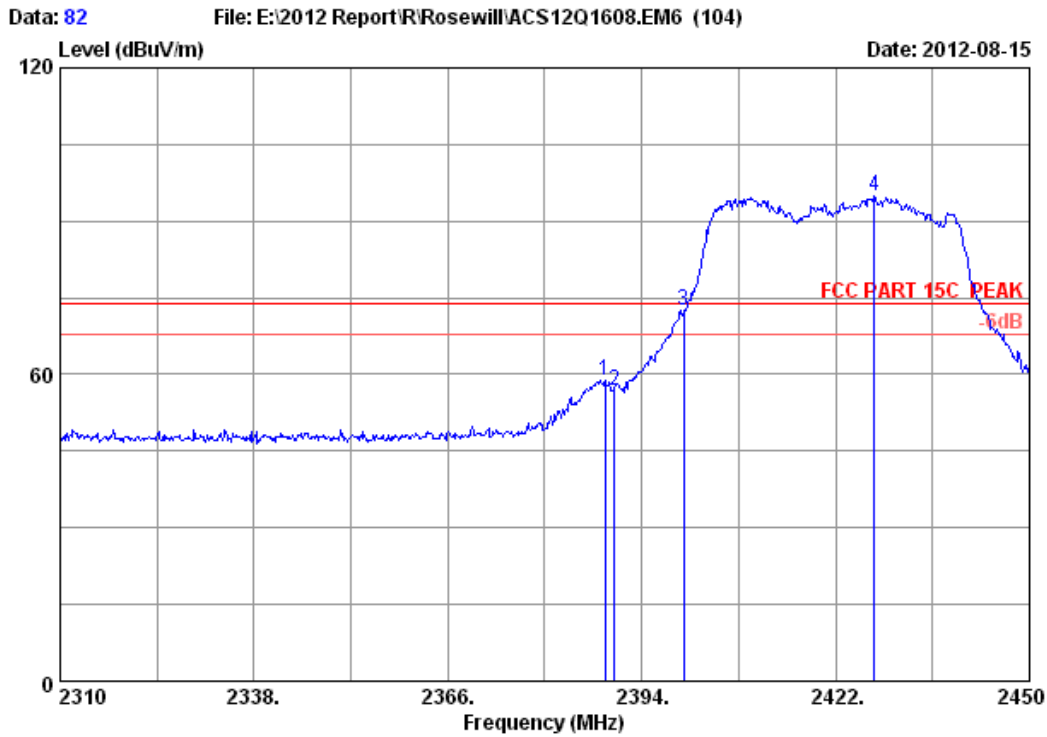


Site no. : 3m Chamber Data no. : 81
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH1 2422MHz Tx
 M/N : RNX-N360RT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2390.000	27.96	6.01	34.44	41.53	41.06	54.00	12.94	Average
2	2400.000	27.96	6.01	34.44	45.37	44.90	54.00	9.10	Average
3	2429.980	28.00	6.06	34.44	81.92	81.54	54.00	-27.54	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

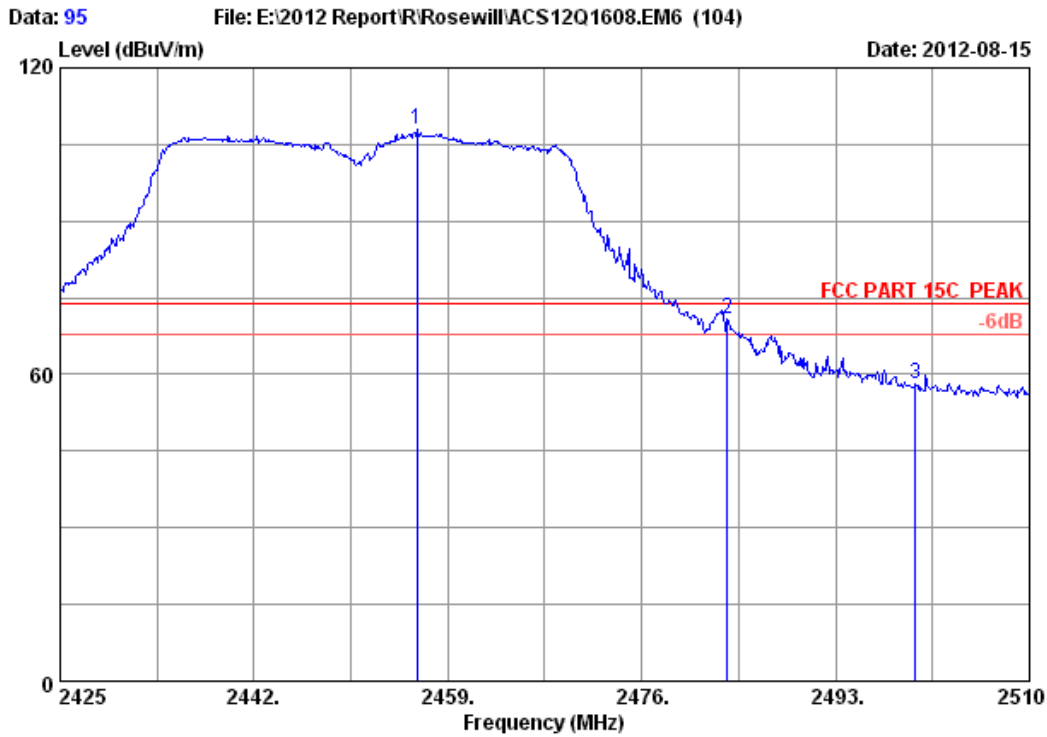


Site no. : 3m Chamber Data no. : 82
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH1 2422MHz Tx
 M/N : RNX-N360RT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2388.680	27.96	6.01	34.44	59.42	58.95	74.00	15.05	Peak
2	2390.000	27.96	6.01	34.44	57.42	56.95	74.00	17.05	Peak
3	2400.000	27.96	6.01	34.44	73.10	72.63	74.00	1.37	Peak
4	2427.600	28.00	6.06	34.44	95.16	94.78	74.00	-20.78	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

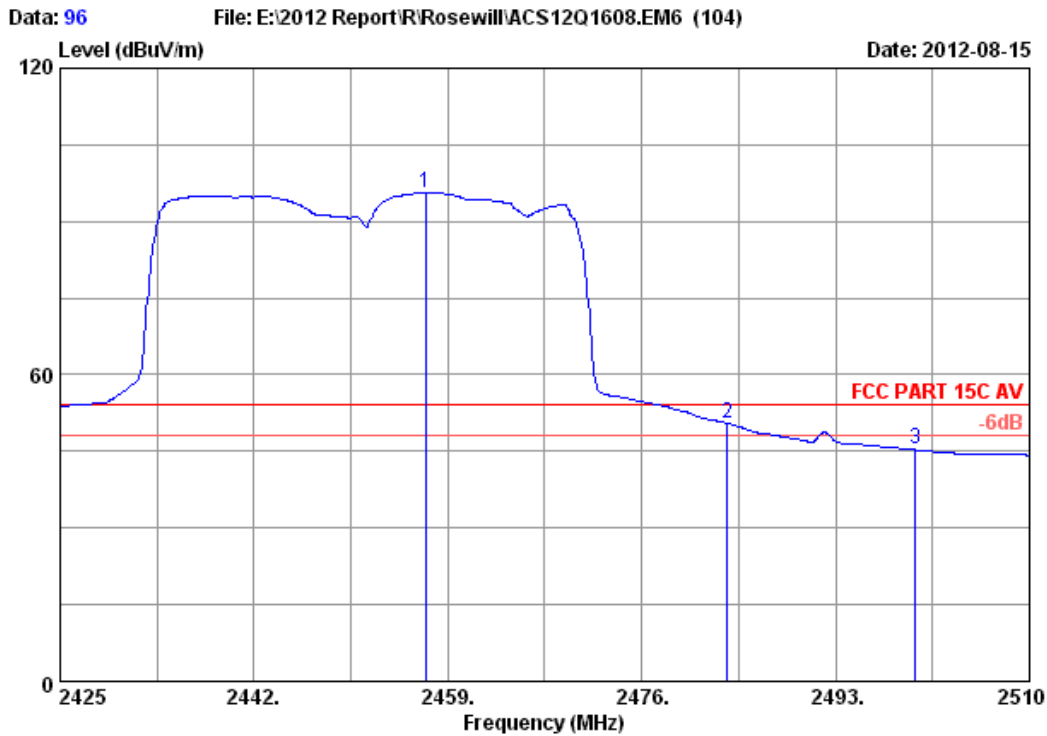


Site no. : 3m Chamber Data no. : 95
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH7 2452MHz Tx
 M/N : RNX-N360RT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2456.280	28.05	6.09	34.44	108.17	107.87	74.00	-33.87	Peak
2	2483.500	28.08	6.15	34.45	71.07	70.85	74.00	3.15	Peak
3	2500.000	28.10	6.18	34.45	58.46	58.29	74.00	15.71	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

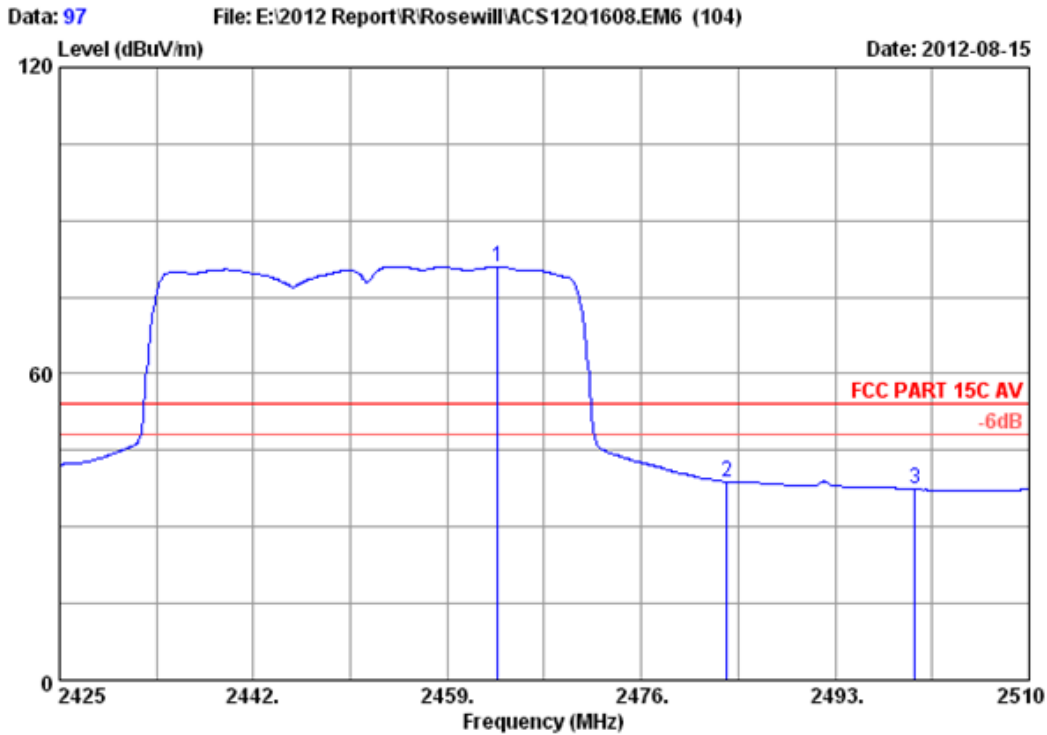


Site no. : 3m Chamber Data no. : 96
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH7 2452MHz Tx
 M/N : RNX-N360RT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2457.045	28.05	6.12	34.44	95.93	95.66	54.00	-41.66	Average
2	2483.500	28.08	6.15	34.45	50.72	50.50	54.00	3.50	Average
3	2500.000	28.10	6.18	34.45	45.48	45.31	54.00	8.69	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

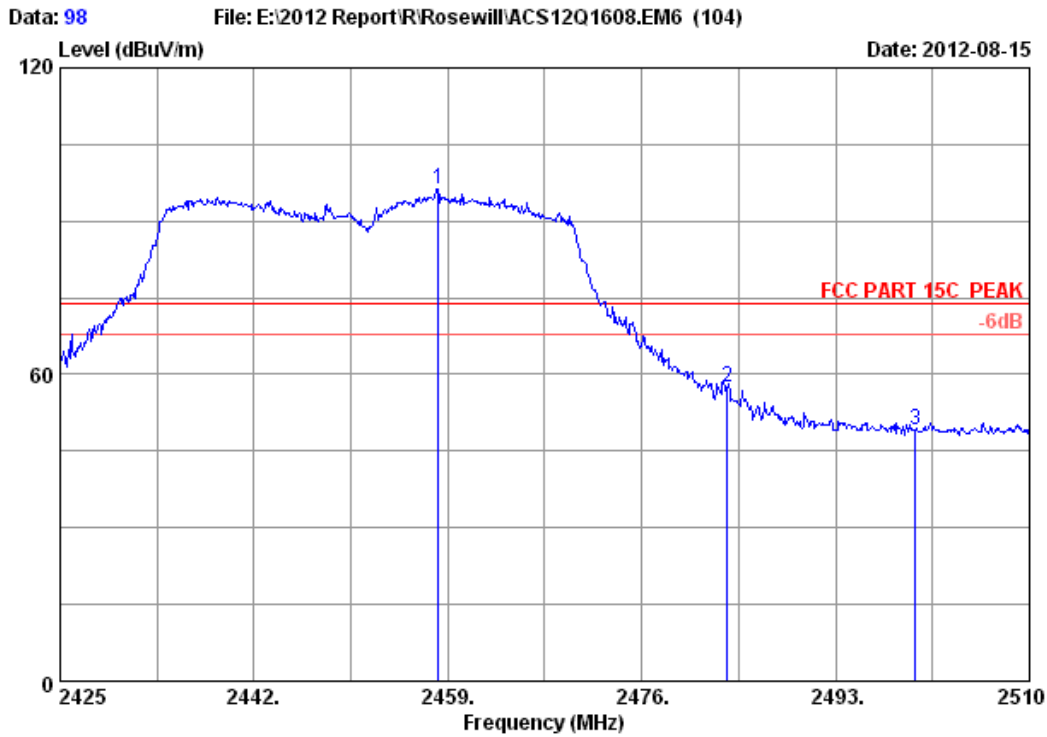


Site no. : 3m Chamber Data no. : 97
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH7 2452MHz Tx
 M/N : RNX-N360RT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2463.420	28.05	6.12	34.45	81.27	80.99	54.00	-26.99	Average
2	2483.500	28.08	6.15	34.45	39.01	38.79	54.00	15.21	Average
3	2500.000	28.10	6.18	34.45	37.56	37.39	54.00	16.61	Average

Remarks:

1. Emission Level= Antenna Factor + Cable Loss - Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 98
 Dis. / Ant. : 3m 2011 3115 4580 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 23°C/54% Engineer : Leo-Li
 EUT : 300Mbps Wireless N Router
 Power supply : DC 9V From Adapter Input AC 120V/60Hz
 Test mode : IEEE802.11nHT40 CH7 2452MHz Tx
 M/N : RNX-N360RT

	Freq. (MHz)	Ant. Factor (dB/m)	Cable loss (dB)	Amp. Factor (dB)	Reading (dBUV)	Emission Level (dBUV/m)	Limits (dBUV/m)	Margin (dB)	Remark
1	2458.150	28.05	6.12	34.44	96.53	96.26	74.00	-22.26	Peak
2	2483.500	28.08	6.15	34.45	57.64	57.42	74.00	16.58	Peak
3	2500.000	28.10	6.18	34.45	49.21	49.04	74.00	24.96	Peak

Remarks:

1. Emission Level= Antenna Factor + Cable Loss -Amp Factor + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

7. 6dB Bandwidth Test

7.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	May.08, 12	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 12	1 Year
3.	Antenna	EMCO	3115	9510-4580	May.08, 12	1Year
4.	HF Cable	Hubersuhner	Sucoflex104	-	May.08, 12	1 Year

7.2. Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

7.3. Test Procedure

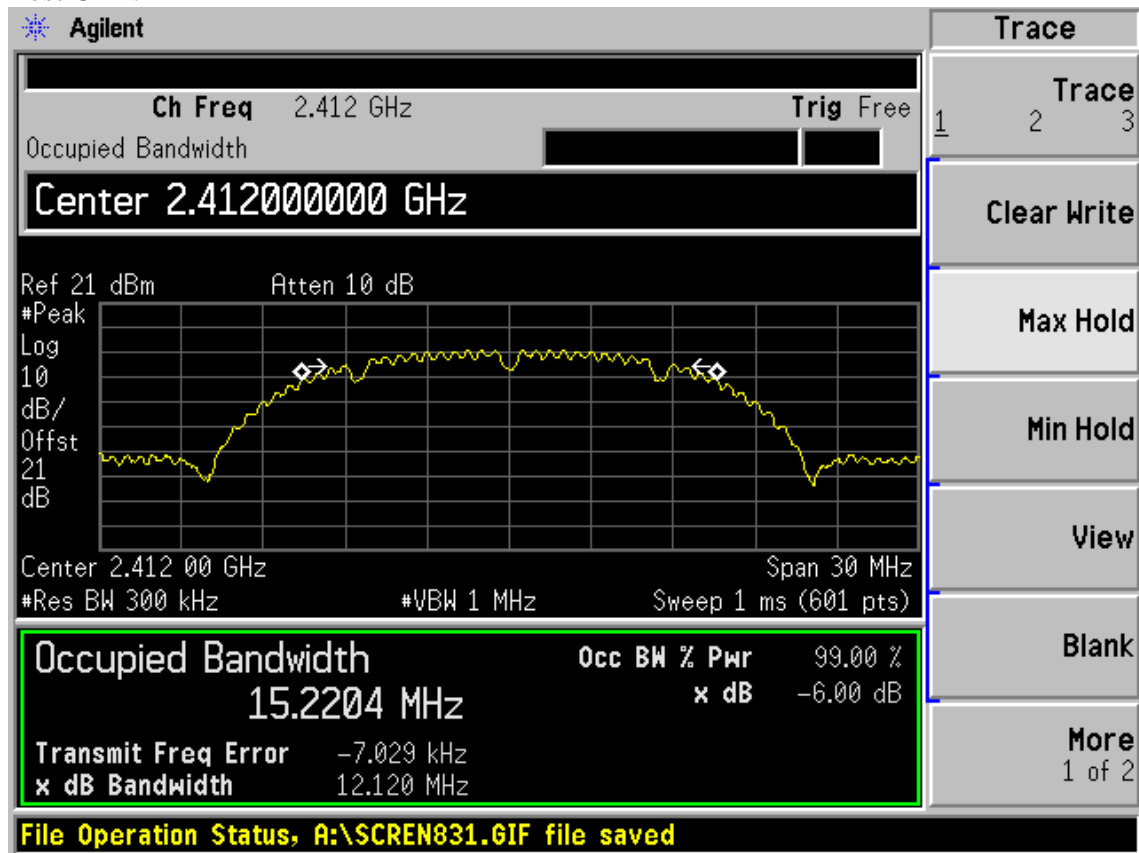
The transmitter output was connected to a spectrum analyzer, The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100kHz RBW and 300 kHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

7.4. Test Results

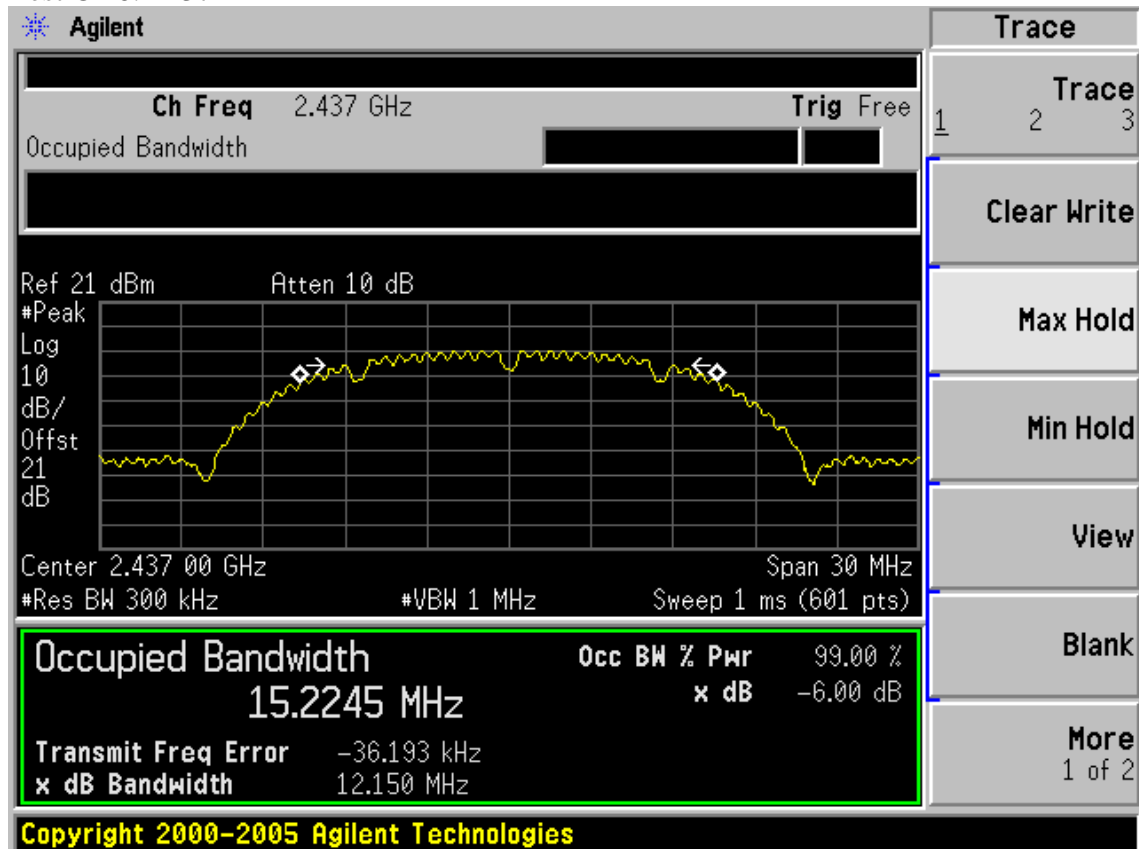
EUT: 300Mbps Wireless N Router		
M/N: RNX-N360RT		
Test date:2012-08-18	Pressure: 101.2 kpa	Humidity: 51.4%
Tested by: Leo-Li	Test site: RF Site	Temperature : 24.8 °C

Cable loss: 1 dB		Attenuator loss: 20 dB		
Test Mode	CH	6dB bandwidth (MHz)		Limit (KHz)
		Chain0	Chain1	
11b	CH1	12.120	12.095	>500
	CH6	12.150	12.141	>500
	CH11	12.156	12.154	>500
11g	CH1	16.364	16.323	>500
	CH6	16.359	16.401	>500
	CH11	16.166	16.366	>500
11n HT20	CH1	17.542	17.596	>500
	CH6	17.612	17.596	>500
	CH11	17.588	17.526	>500
11n HT40	CH1	36.524	36.499	>500
	CH4	36.581	36.552	>500
	CH7	36.559	36.523	>500
Conclusion : PASS				

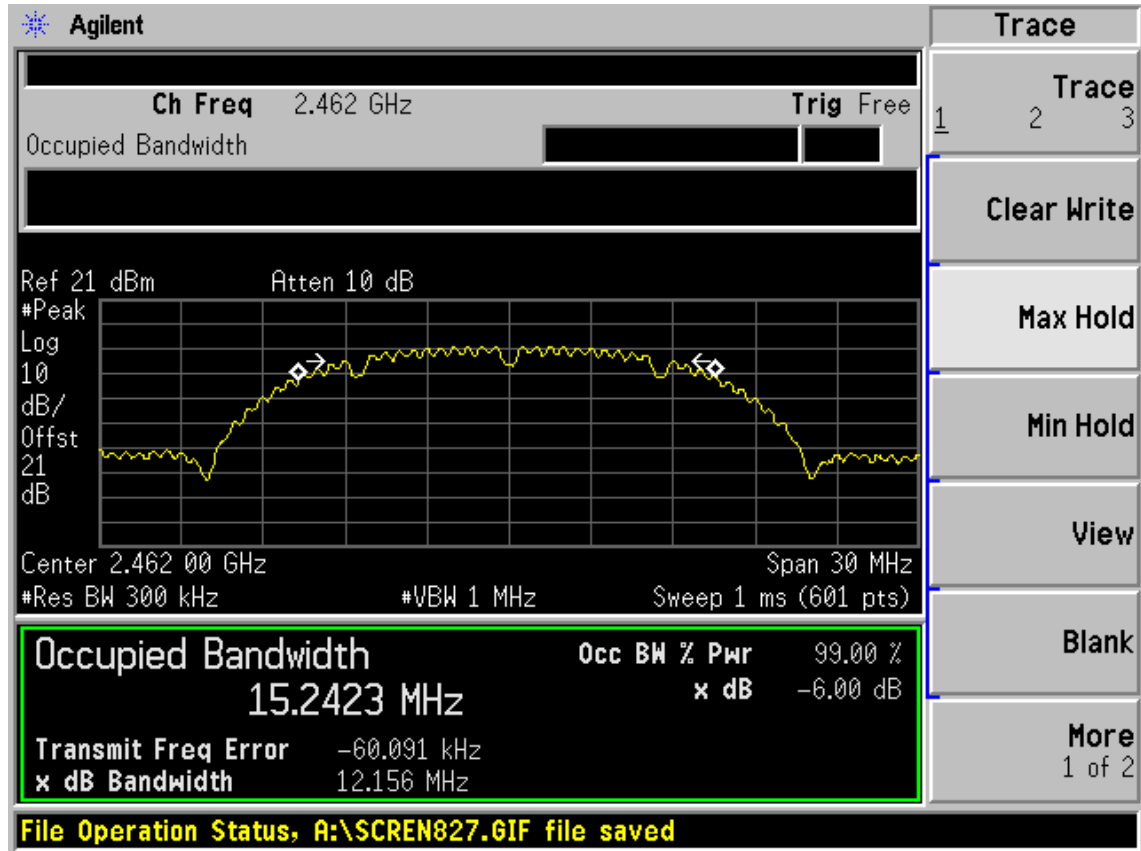
Chain0
 Test Mode: IEEE 802.11b TX
 Test CH1: 2412MHz



Test CH6: 2437MHz

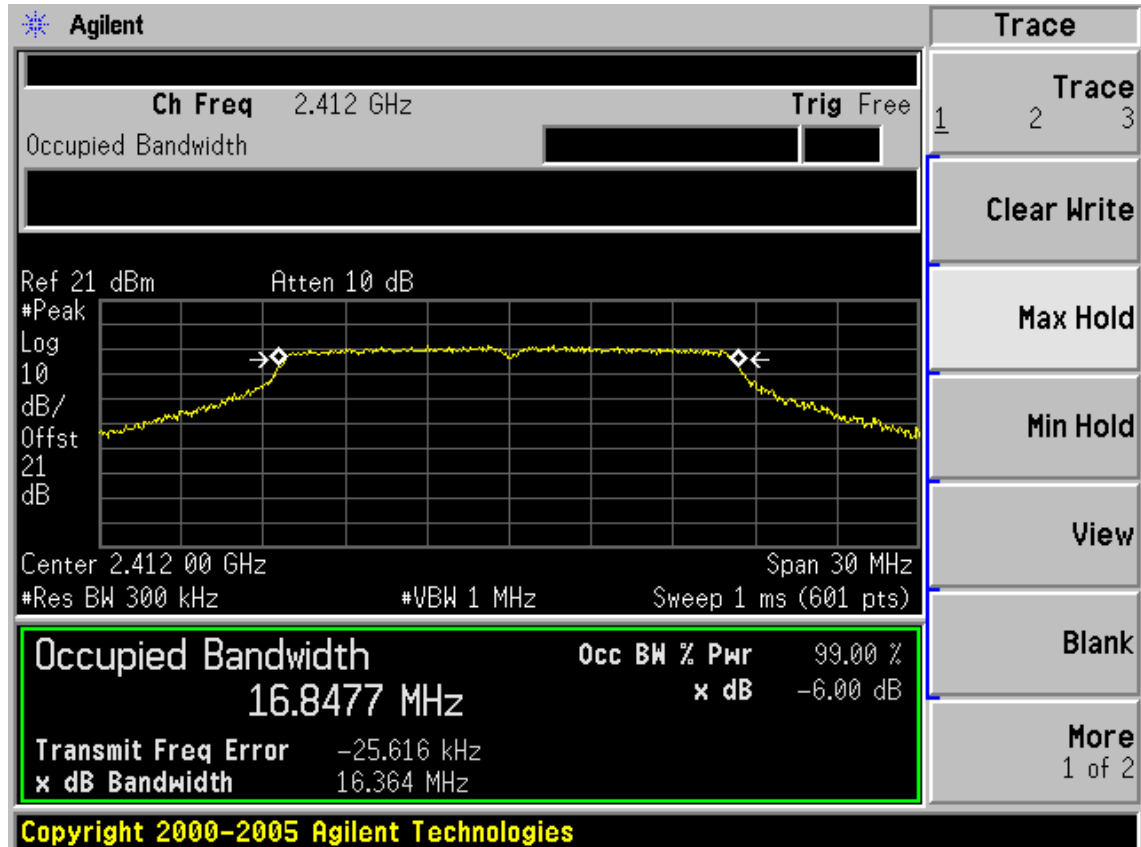


Test CH11: 2462MHz

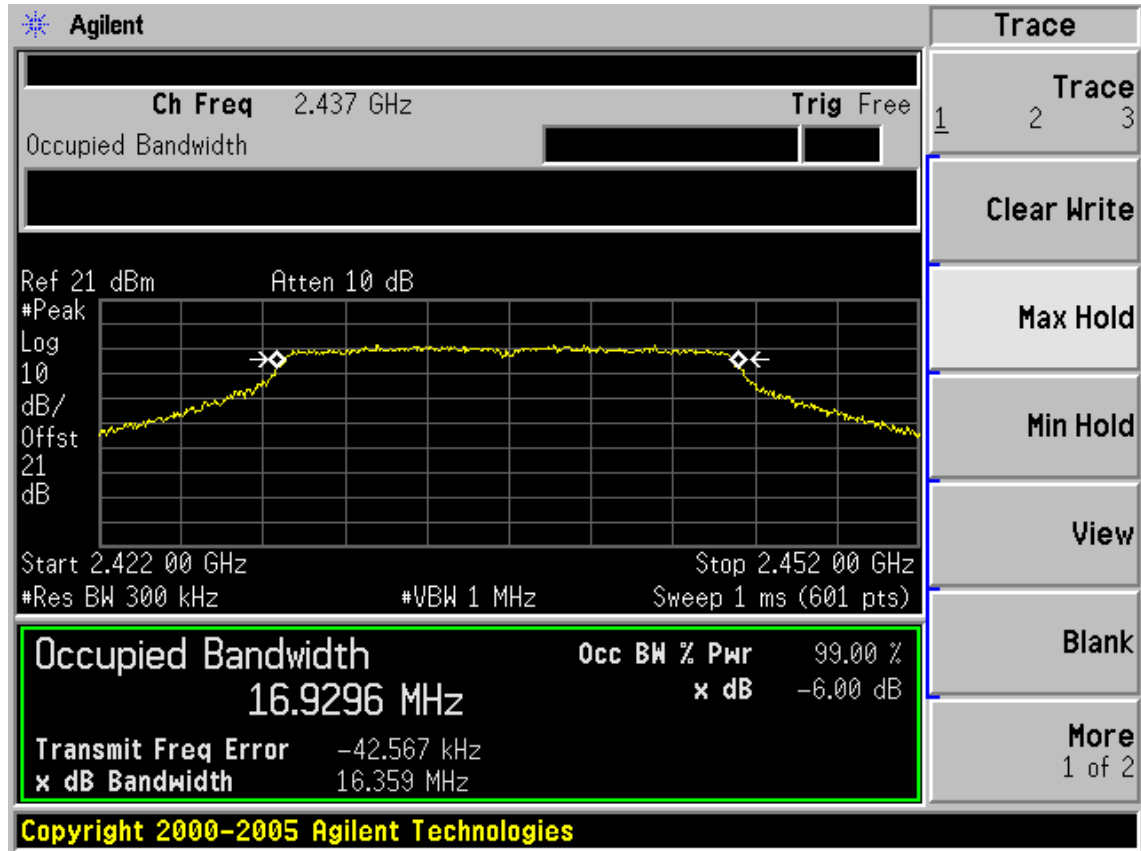


Test Mode: IEEE 802.11g TX

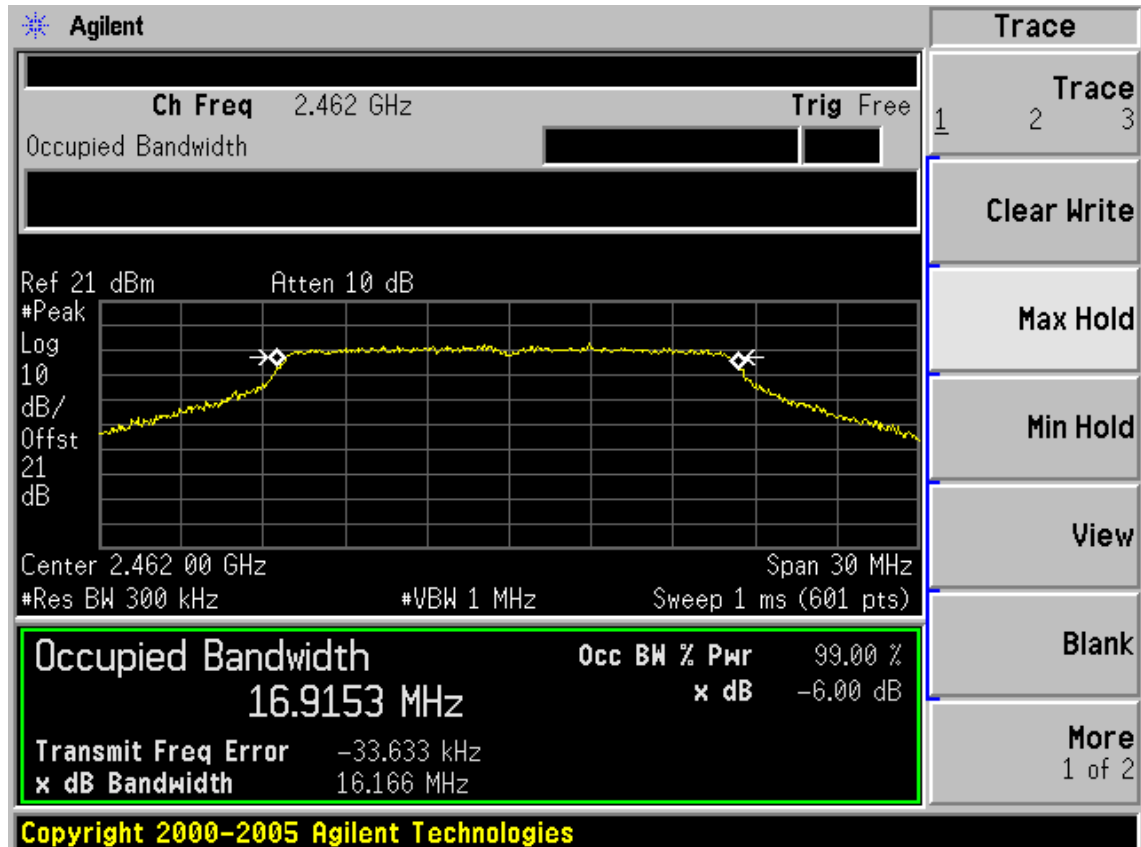
Test CH1: 2412MHz



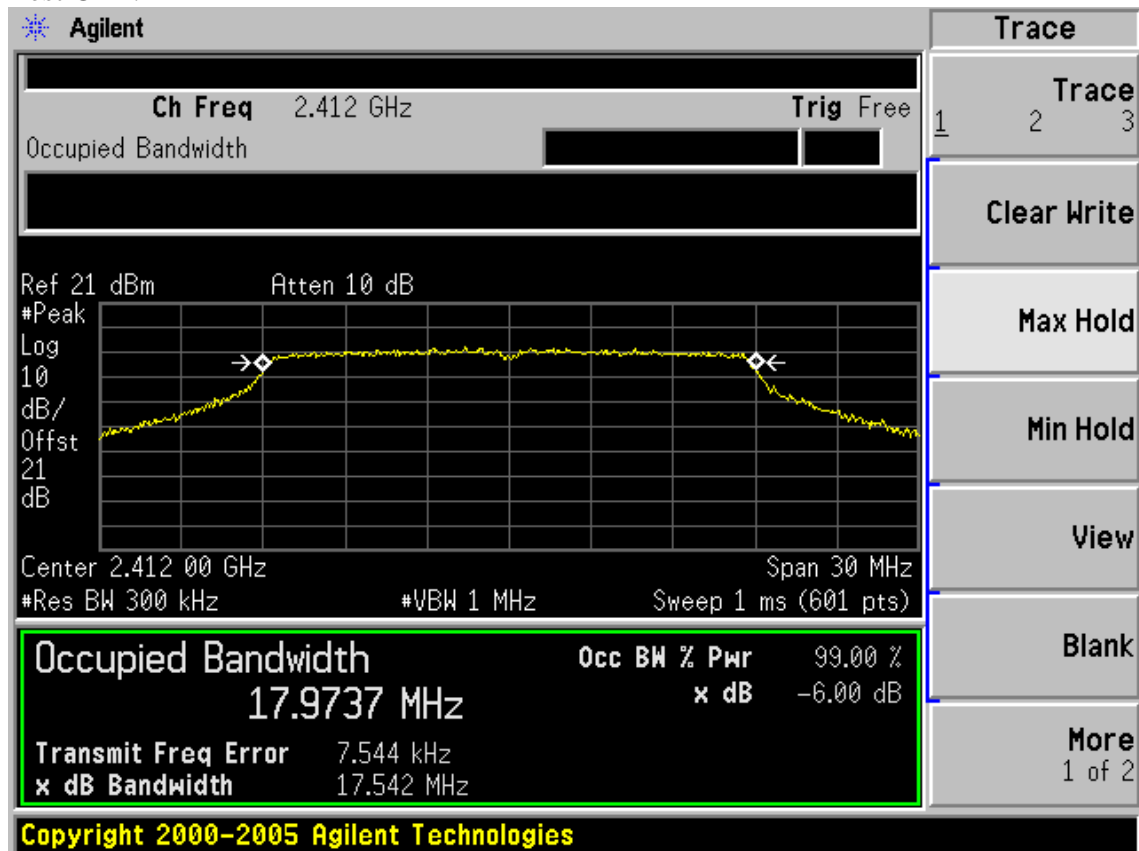
Test CH6: 2437MHz



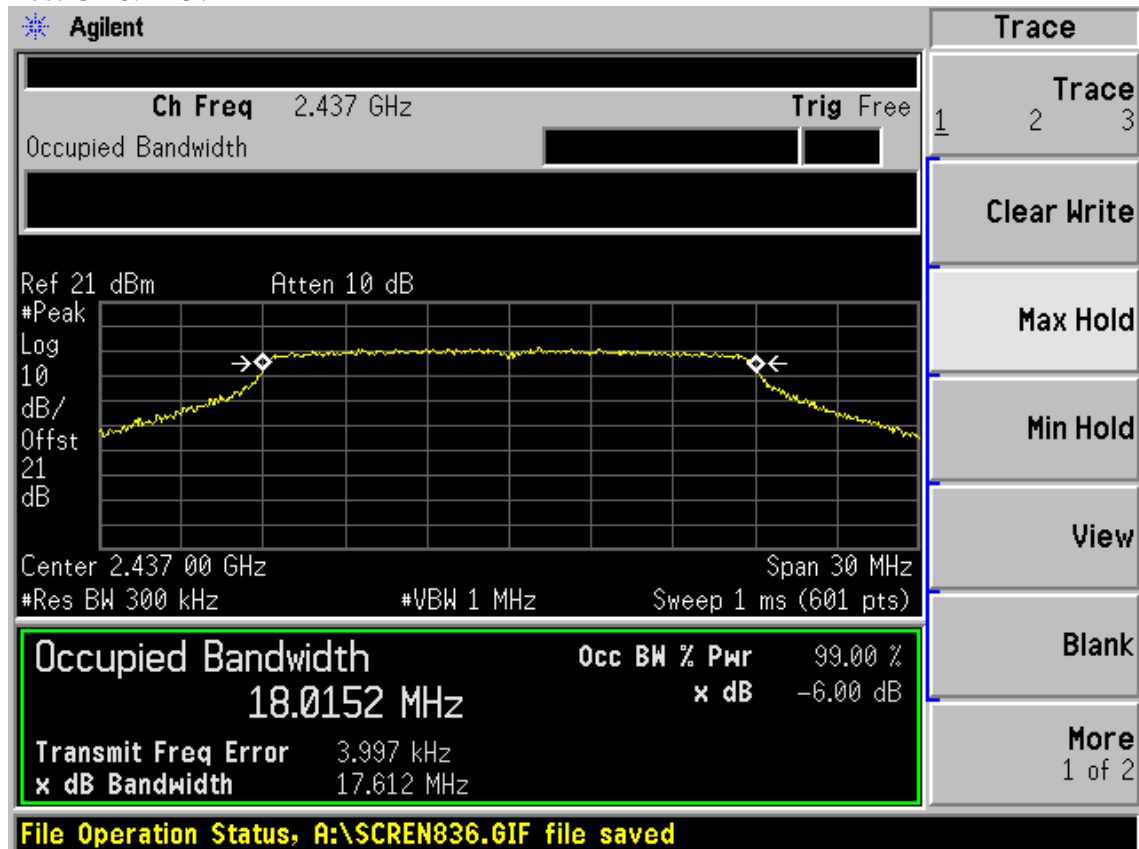
Test CH11: 2462MHz



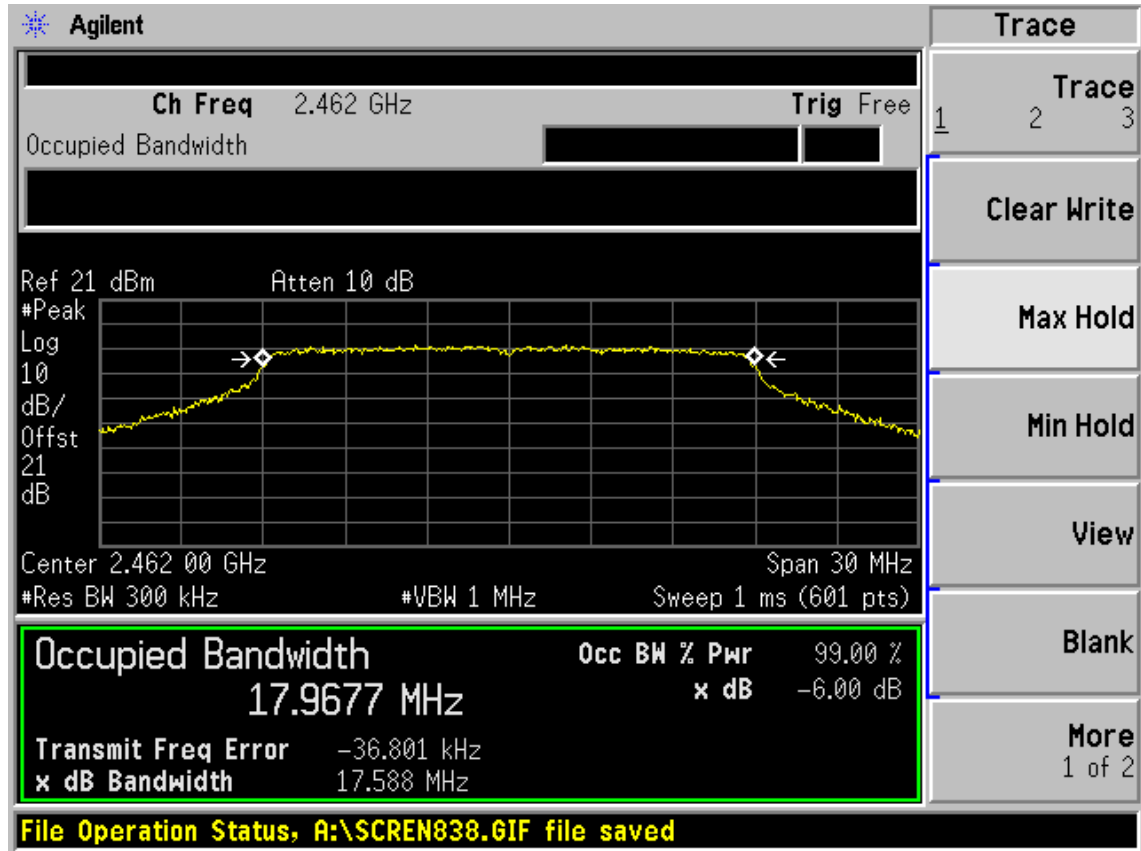
Test Mode: IEEE 802.11n HT20 TX
 Test CH1: 2412MHz



Test CH6: 2437MHz

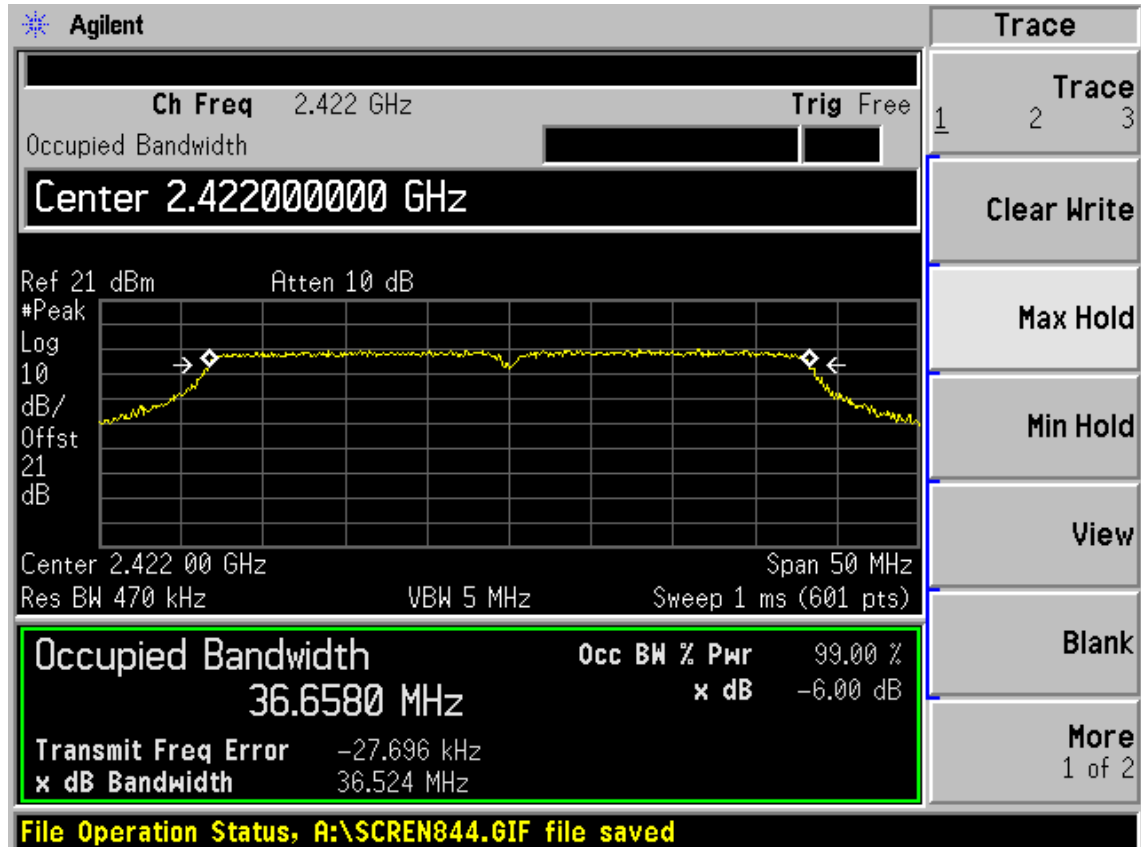


Test CH1: 2462MHz

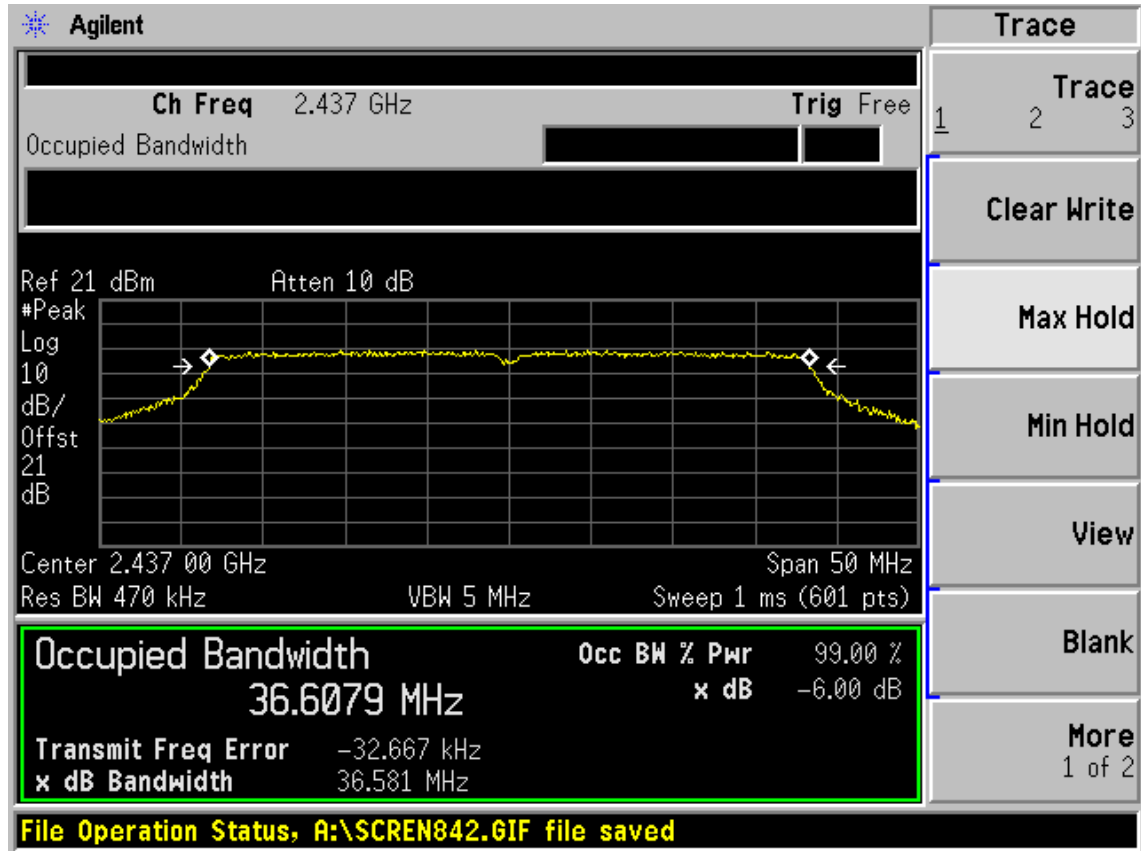


Test Mode: IEEE 802.11n HT40 TX

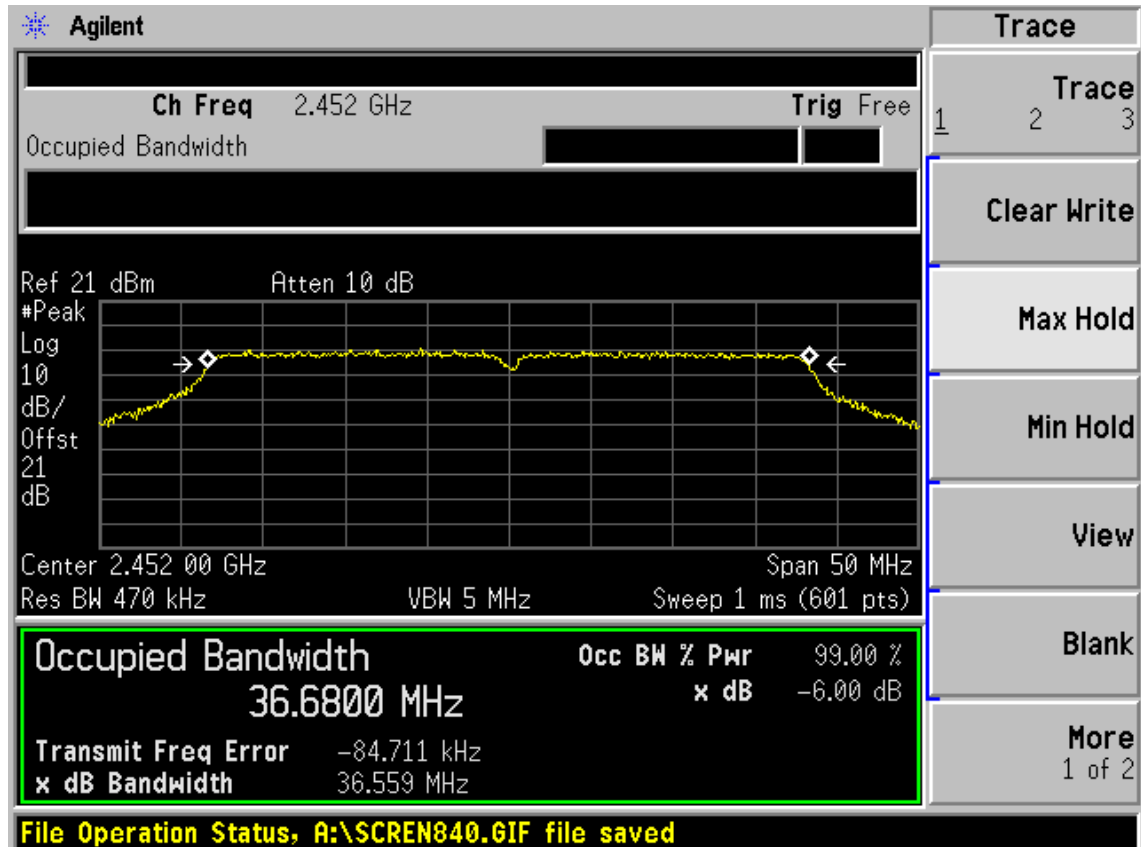
Test CH1: 2422MHz



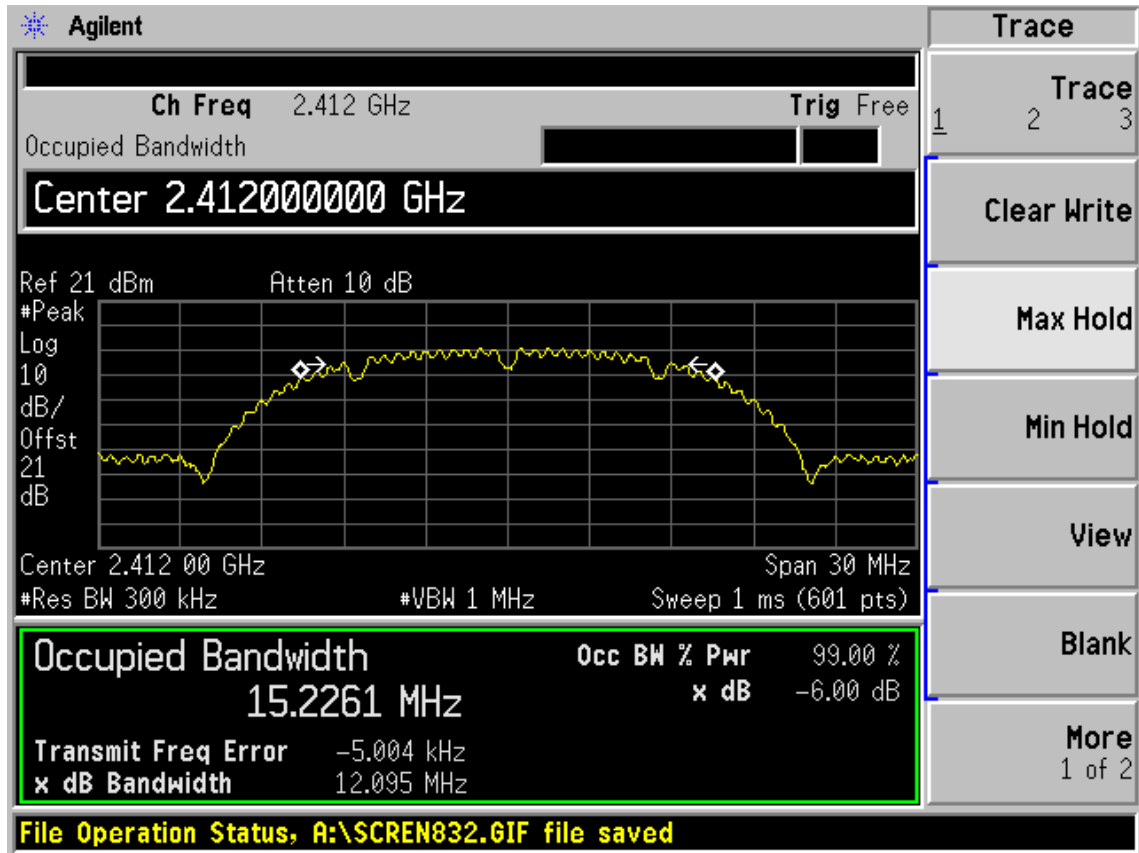
Test CH4: 2437MHz



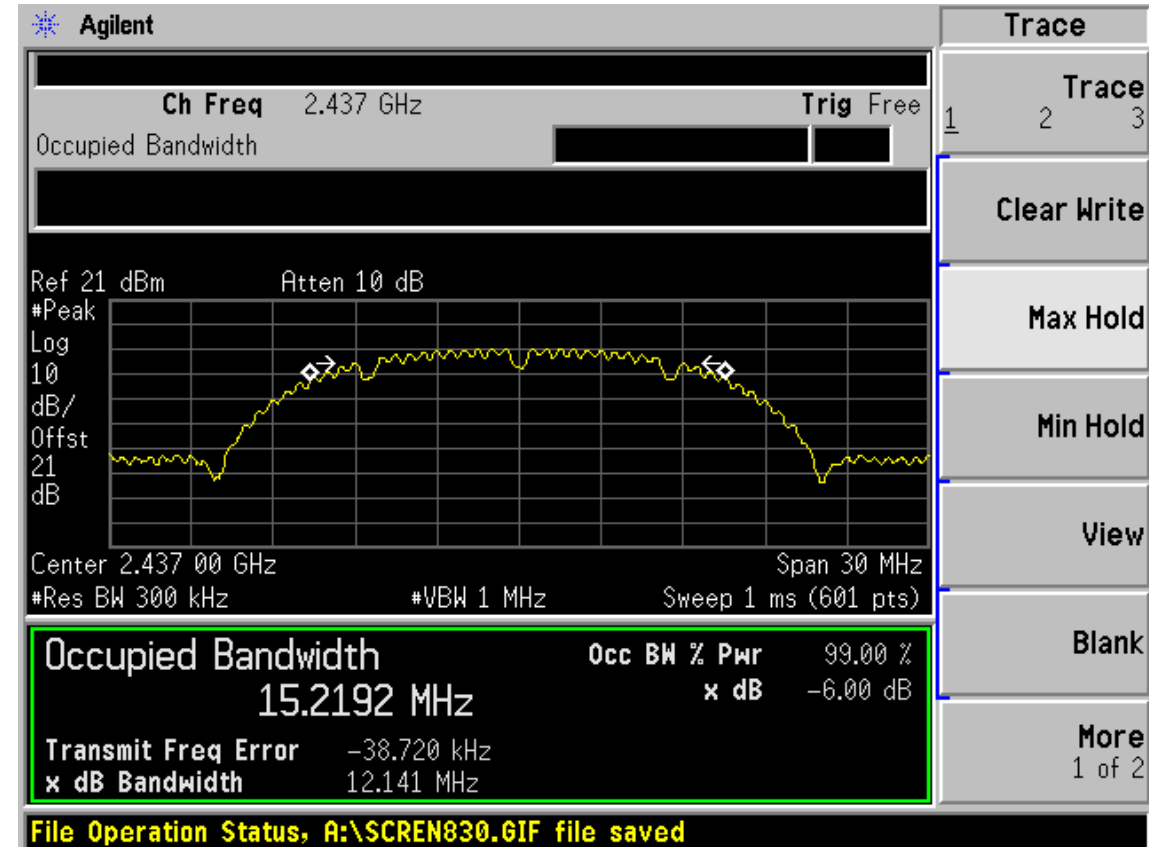
Test CH7: 2452MHz



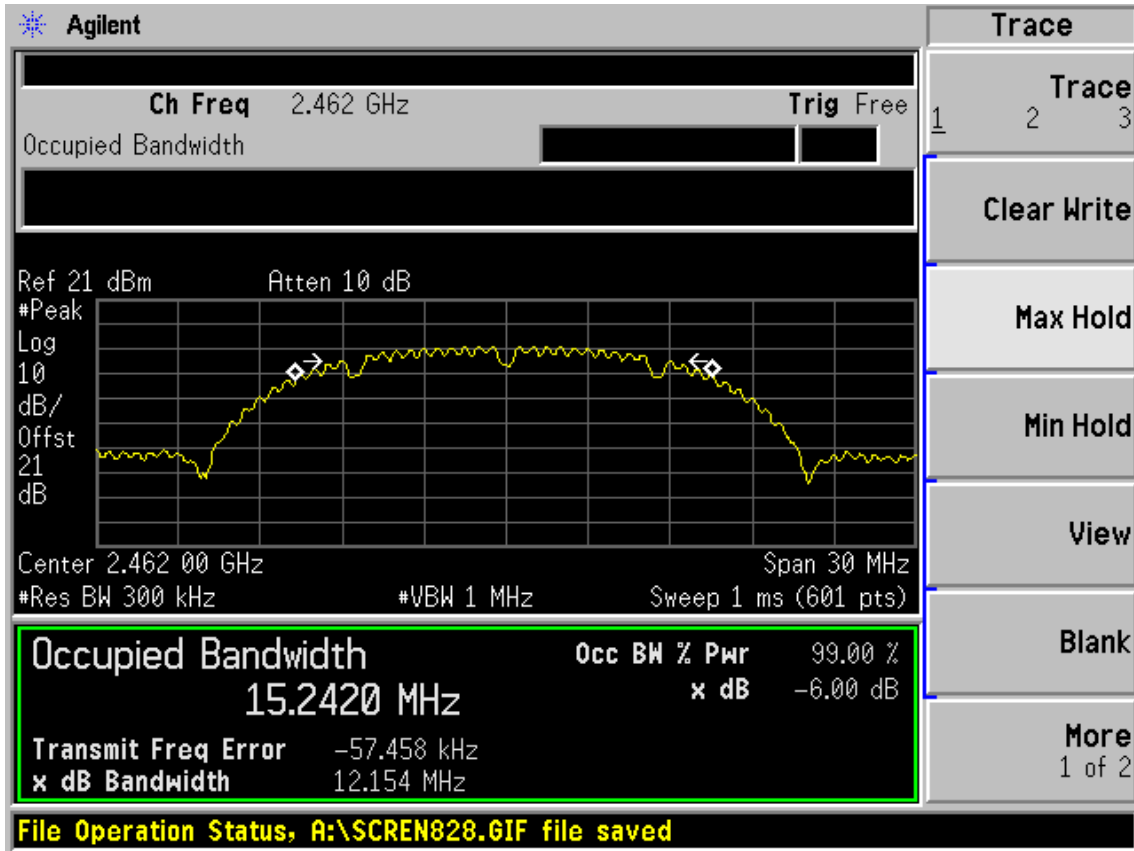
Chain 1
 Test Mode: IEEE 802.11b TX
 Test CH1: 2412MHz



Test CH6: 2437MHz

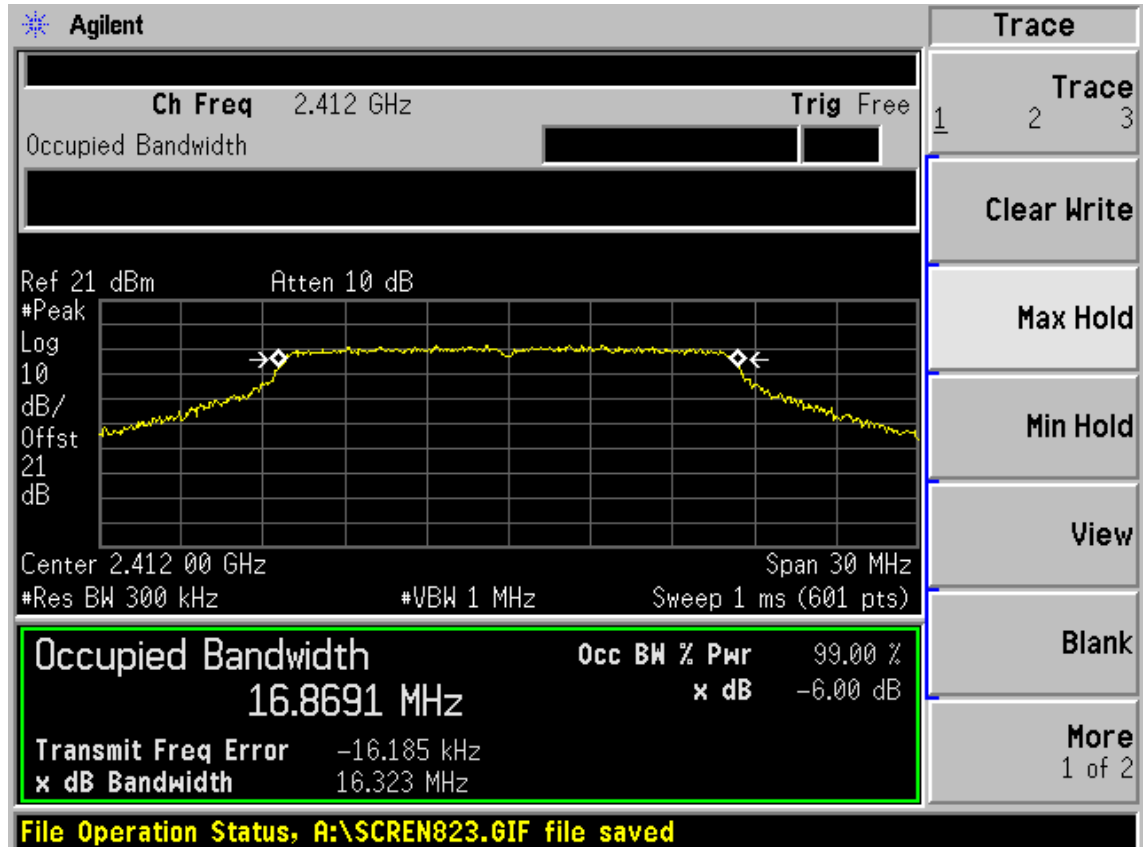


Test CH11: 2462MHz

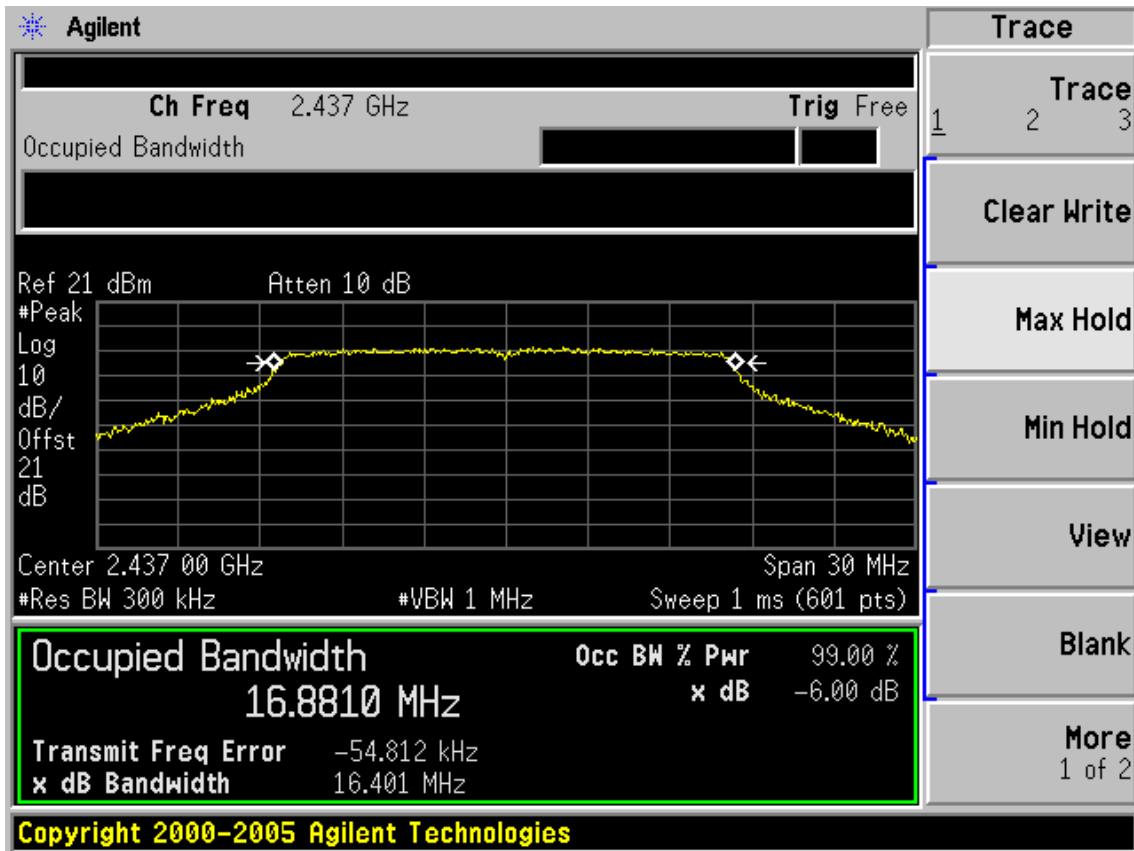


Test Mode: IEEE 802.11g TX

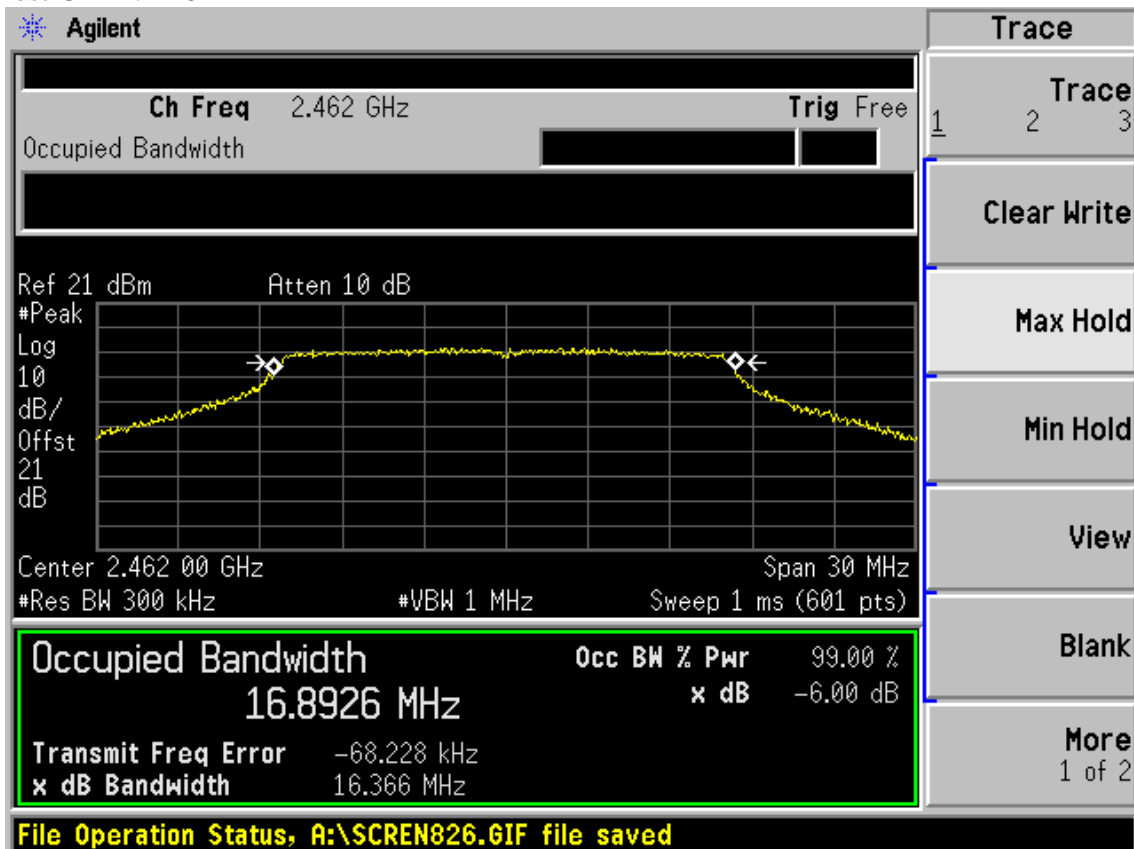
Test CH1: 2412MHz



Test CH6: 2437MHz

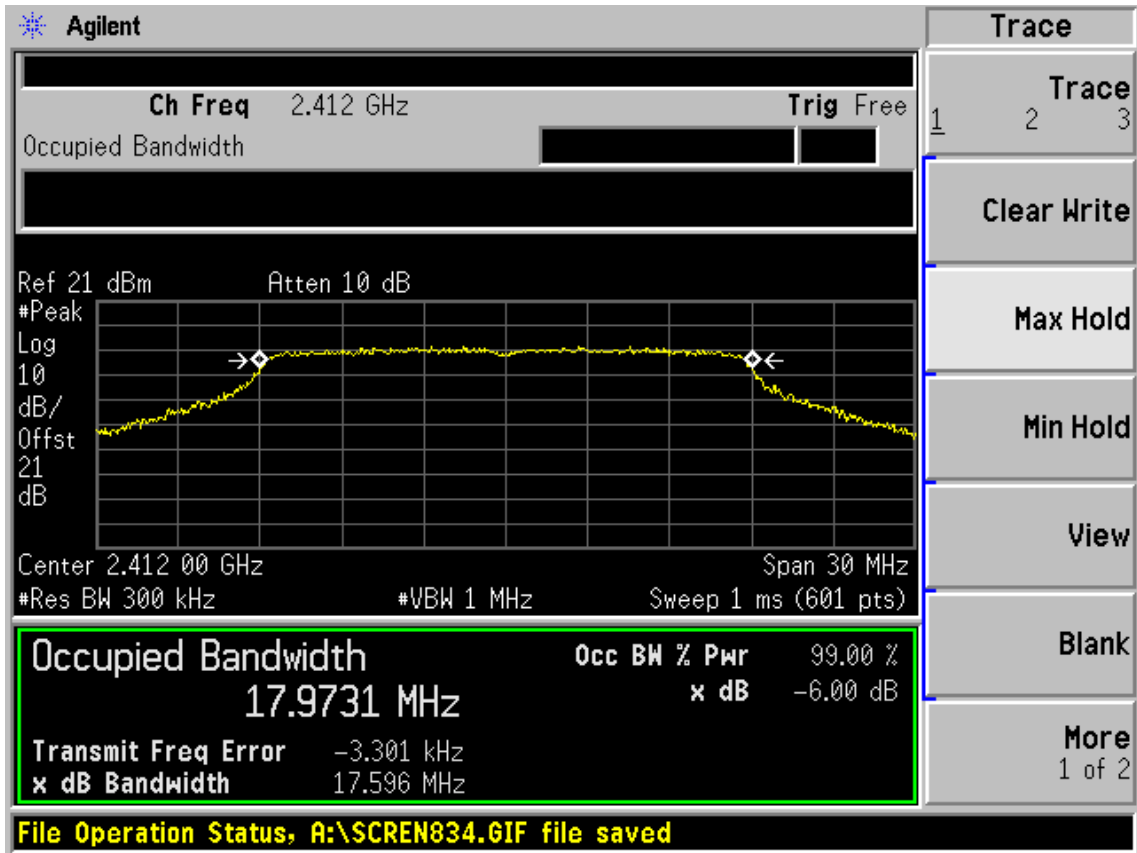


Test CH11: 2462MHz

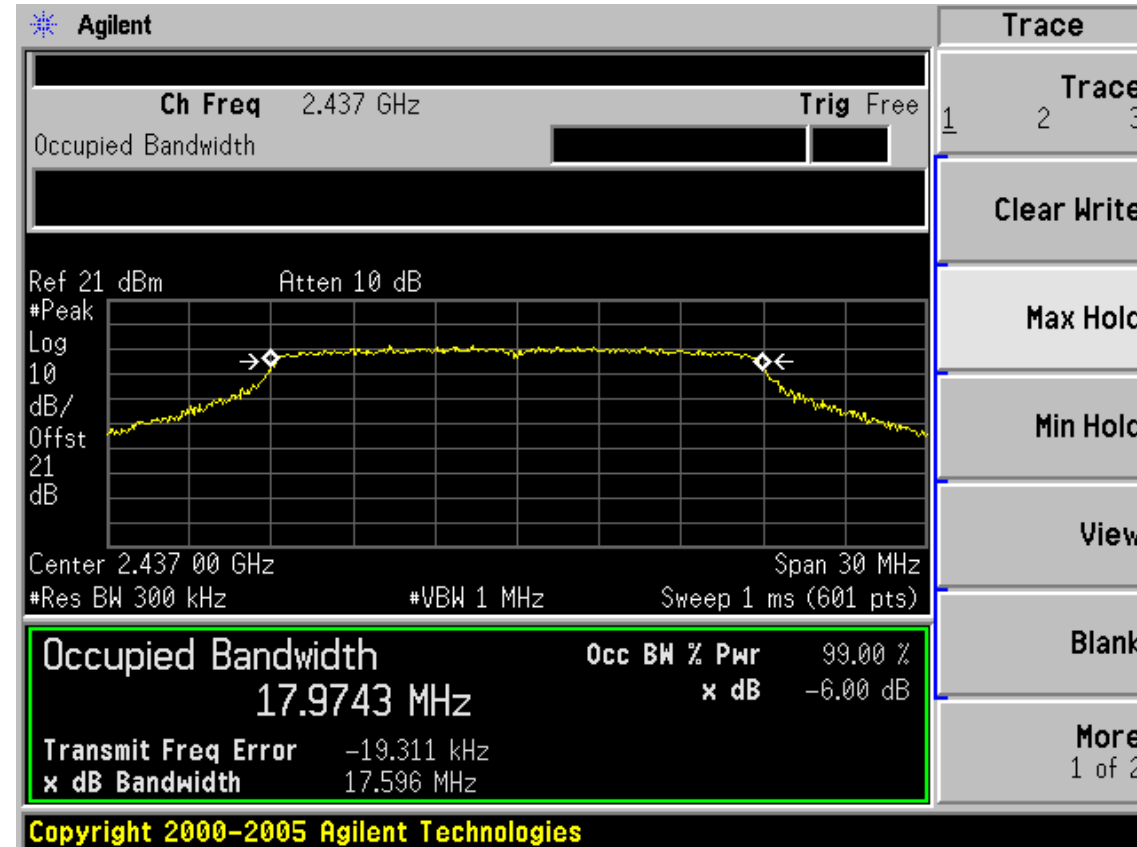


Test Mode: IEEE 802.11n HT20 TX

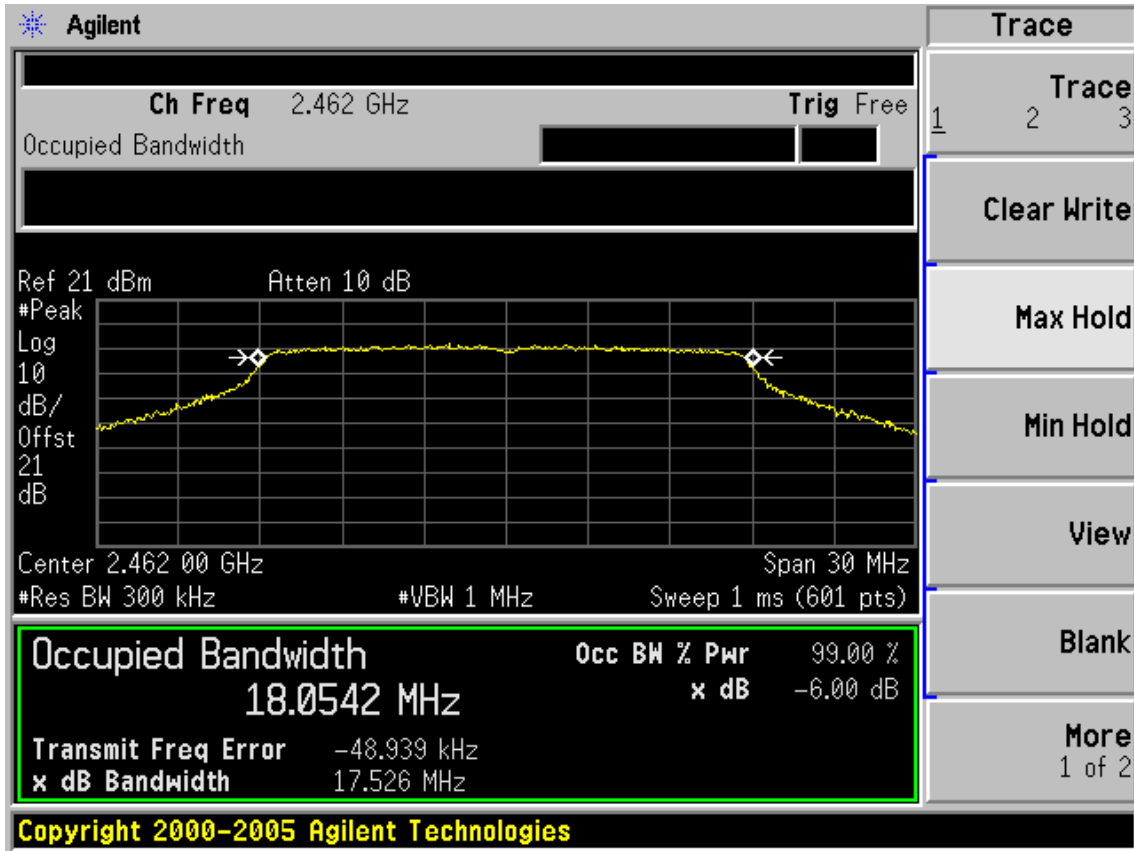
Test CH1: 2412MHz



Test CH6: 2437MHz

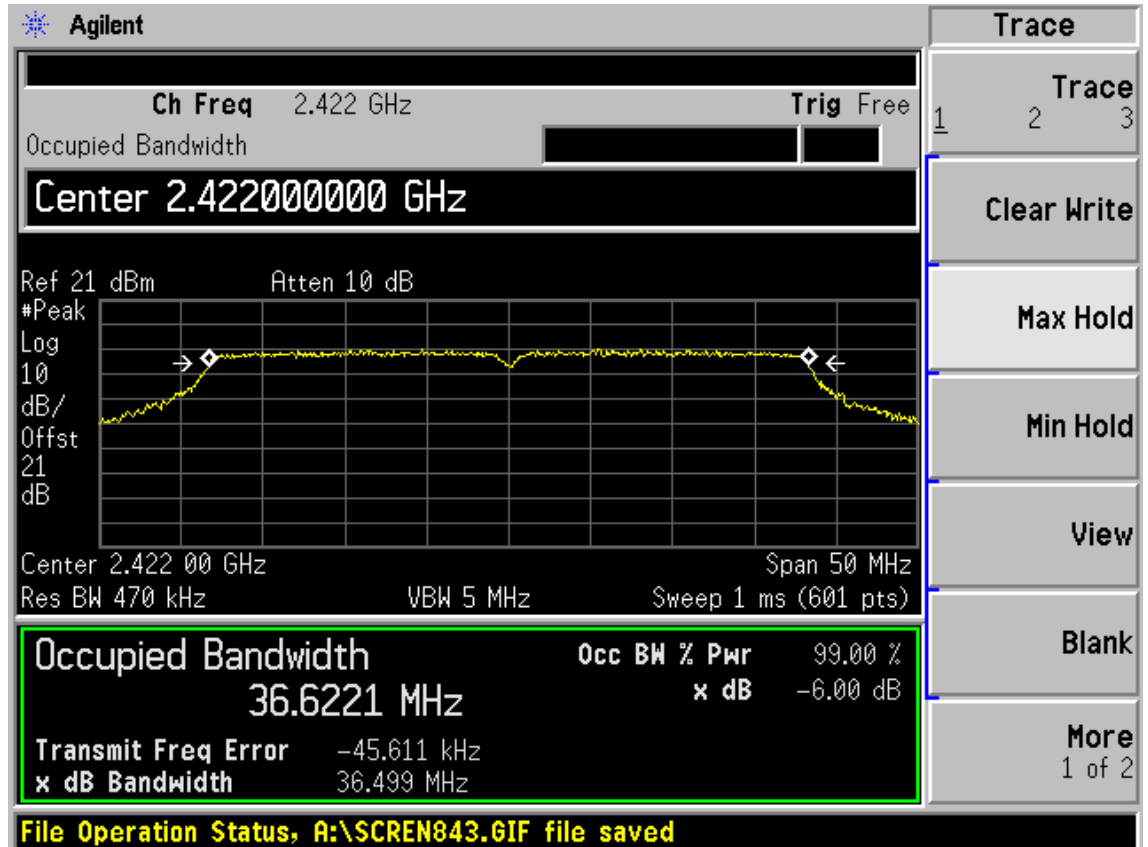


Test CH11: 2462MHz

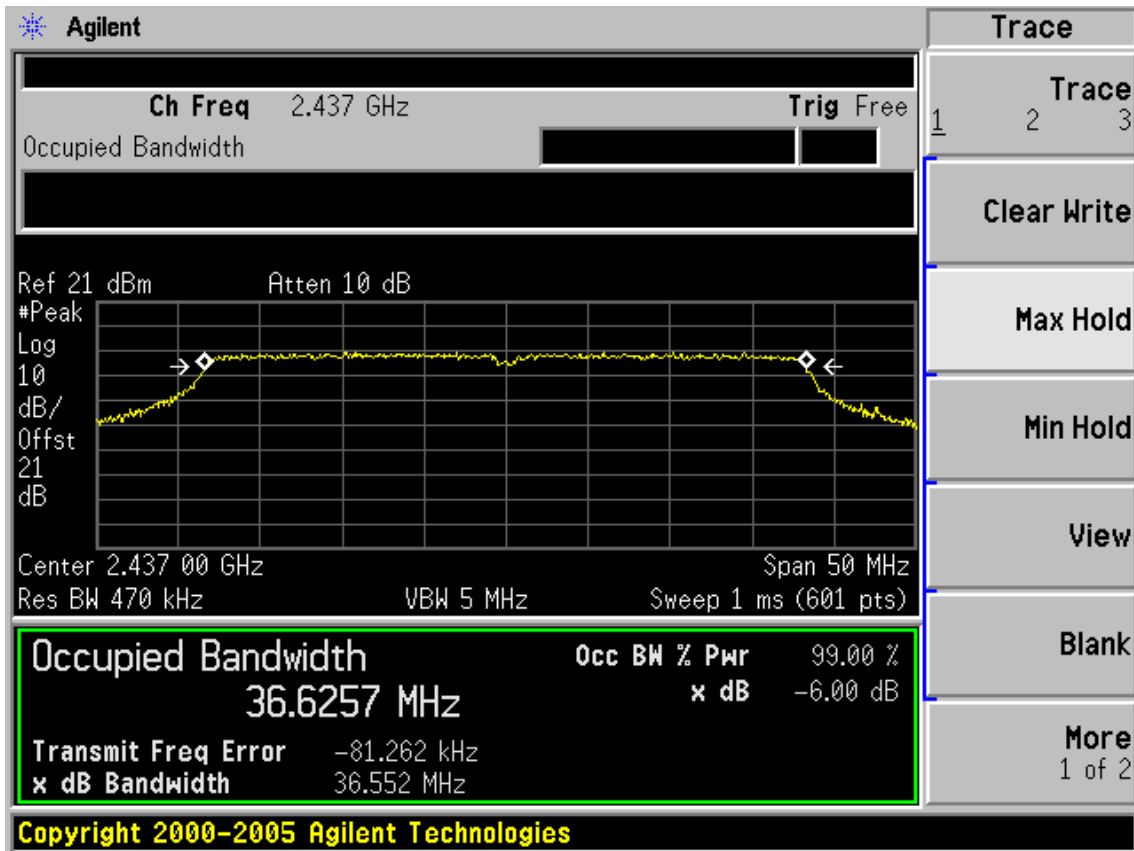


Test Mode: IEEE 802.11n HT40 TX

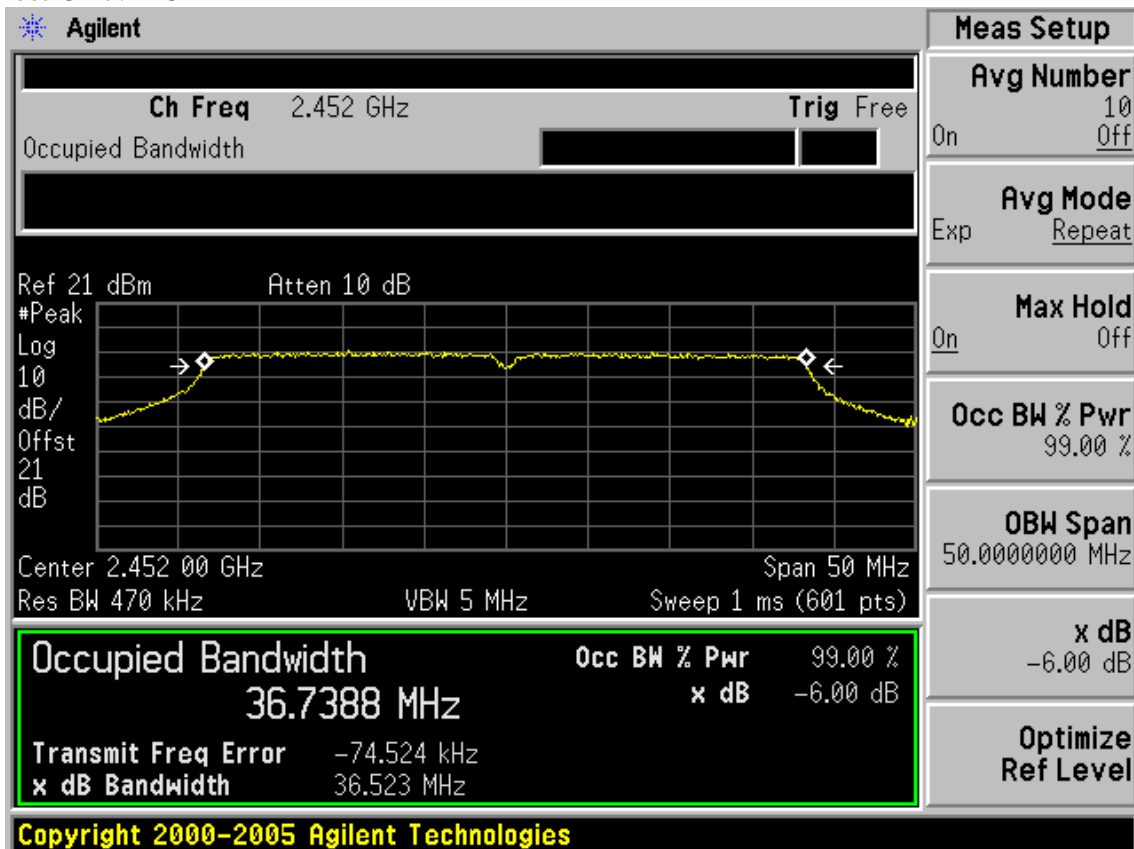
Test CH1: 2422MHz



Test CH4: 2437MHz



Test CH7: 2452MHz



8. OUTPUT POWER TEST

8.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	May.08, 12	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 12	1 Year
3.	Antenna	EMCO	3115	9510-4580	May.08, 12	1 Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 12	1 Year
5.	Power Meter	Anritsu	ML2487A	6K00002472	May.08, 12	1 Year
6.	Power Sensor	Anritsu	MA2491A	033005	May.08, 12	1 Year

8.2. Limit (FCC Part 15C 15.247 b(3))

For systems using digital modulation in the 2400—2483.5MHz, The Peak out put Power shall not exceed 1W(30dBm)

8.3. Test Procedure

- 1, Connected the EUT's antenna port to measure device by 26dB attenuator.
- 2, For IEEE 802.11b/g and IEEE802.11n HT20 mode, use a PK power meter which's bandwidth is 20MHz and above 26dB bandwidth of signal to measure out each test modes' PK output power.
- 3, For IEEE802.11n HT40 mode, because the signal's bandwidth is about 40MHz and above 20MHz bandwidth of power sensor ML2491A. So Bandwidth correction method according to ANSI C63.10 clause 6.10.2.1 part (c) was used:
 - 1) Set the RBW=3MHz and VBW =8MHz
 - 2) Turn averaging off
 - 3) Set sweep to automatic
 - 4) Set the span just large enough to capture the emission
 - 5) Use a peak detector on max hold
 - 6) Record the measured power
 - 7) Calculate Output power of EUT use the formula:

Peak output power =measured power+ 10log[(26dB bandwidth of emission)/(analyzer RBW)]

Note: For IEEE802.11n mode, it's MIMO system, so calculate total e.i.r.p power by add each chain's measured power.

Note: The cable loss and attenuator loss were offset into measure device as an amplitude offset.

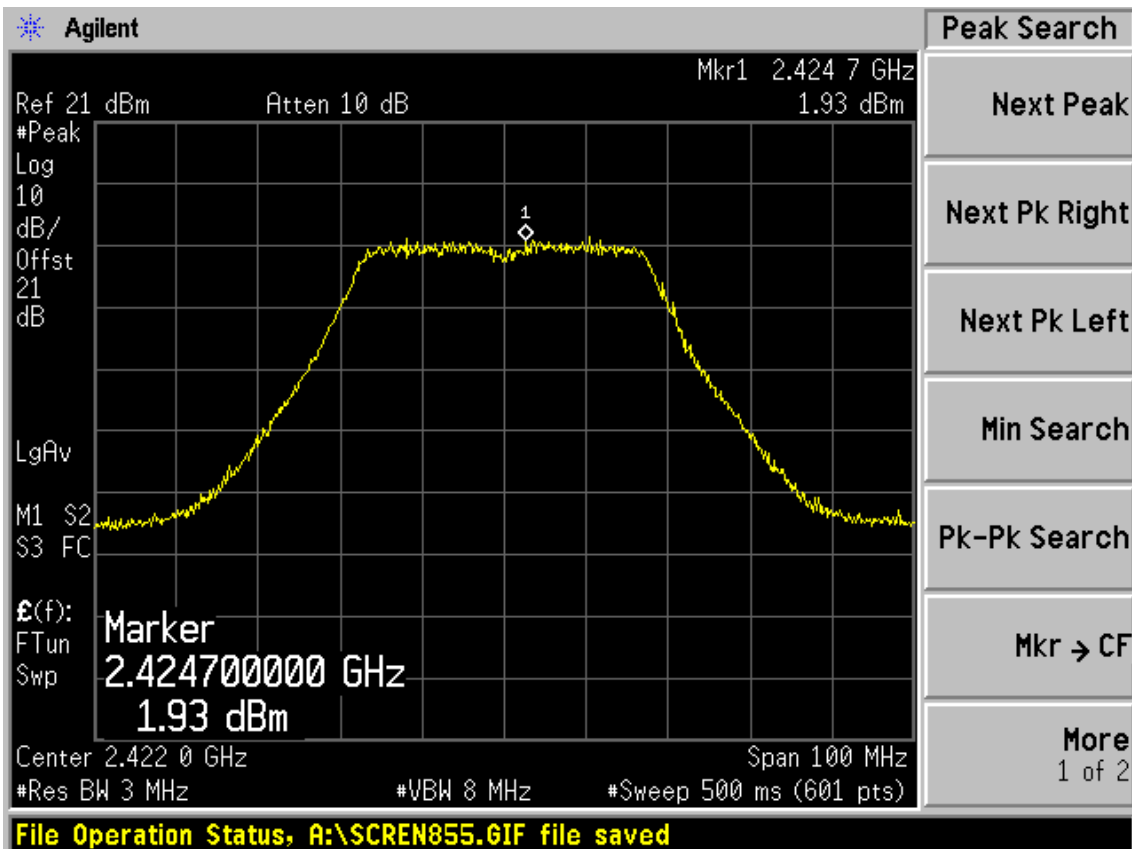
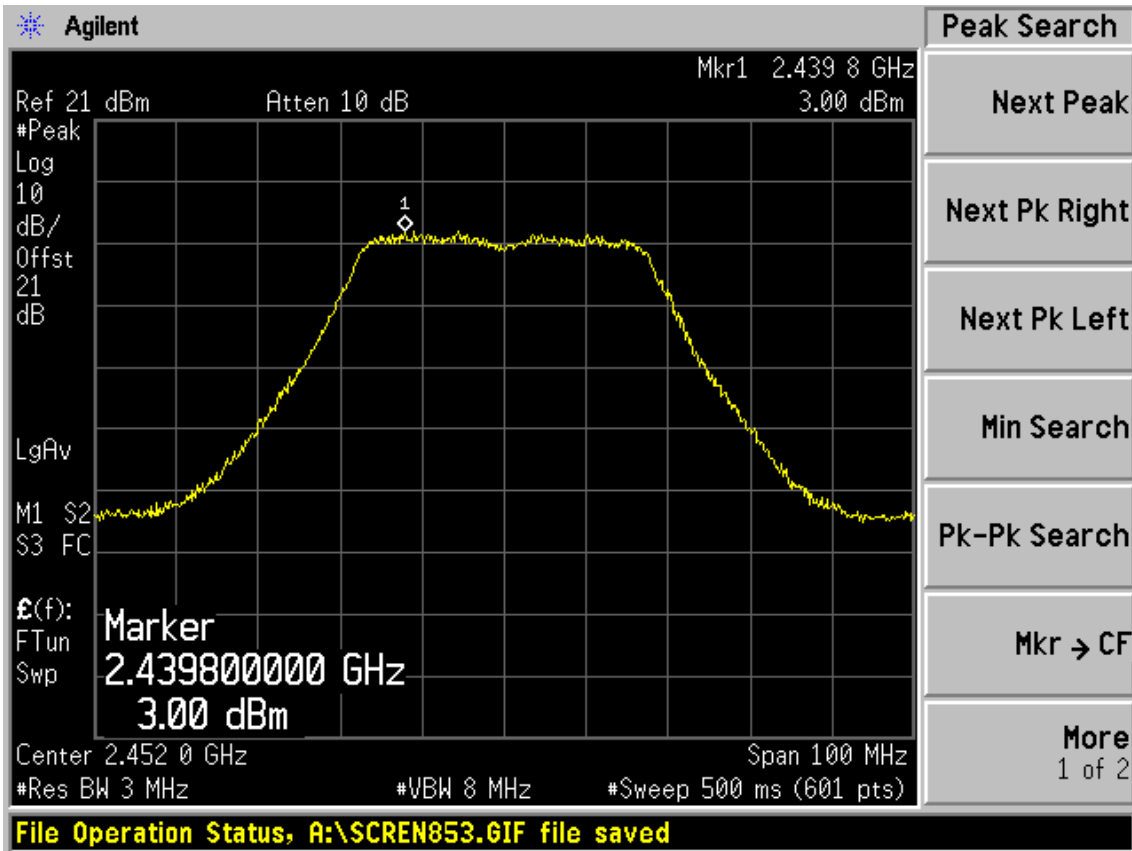
8.4. Test Results

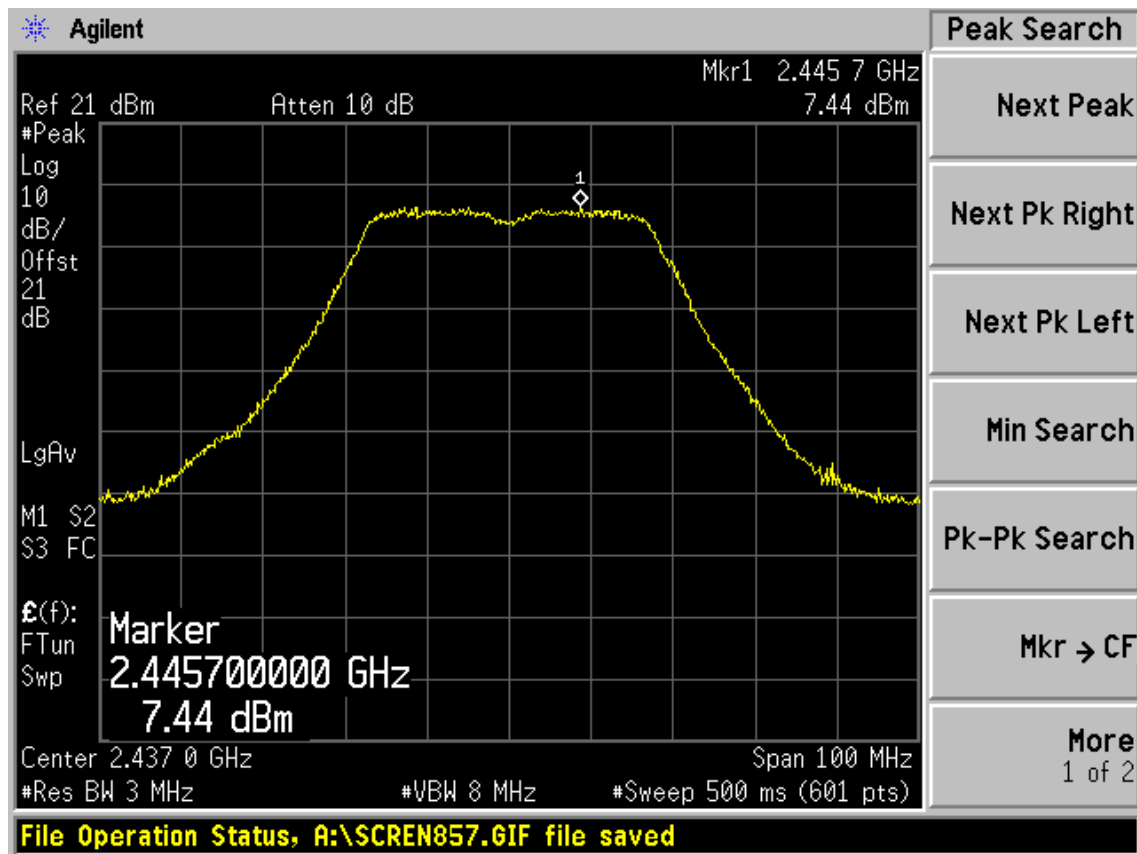
EUT: 300Mbps Wireless N Router					
M/N: RNX-N360RT					
Test date: 2012-8-18		Pressure: 101.1 kpa			Humidity: 52.7 %
Tested by: Leo-Li		Test site: RF site			Temperature: 24.4 °C
Cable loss: 1 dB			Attenuator loss: 20 dB		
Test Mode	CH (MHz)	Peak output Power (dBm)			Limit (dBm)
		Chain0	Chain1	Total	
11b	CH1	16.67	17.84	N/A	30
	CH6	17.84	19.21	N/A	30
	CH11	19.47	20.6	N/A	30
11g	CH1	19.25	20.59	N/A	30
	CH6	19.85	21.05	N/A	30
	CH11	19.18	20.35	N/A	30
11n HT20	CH1	17.71	18.23	20.99	30
	CH6	19.67	20.95	23.37	30
	CH11	18.31	19.13	21.75	30

Test Mode	CH	Result					Limit (dBm)
		Measured power(dBm)/3MHz		PK Output power (dBm)			
		Chain0	Chain1	Chain0	Chain1	Total	
11n HT40	CH1	1.93	3.22	13.97	15.22	17.65	30
	CH4	7.44	8.81	19.48	20.81	23.21	30
	CH7	3.00	4.29	15.04	16.29	18.72	30
Chain 0		26dB Bandwidth for 11n HT40: 47.941MHz					
Chain 1		26dB Bandwidth for 11n HT40: 47.551MHz					
Chain 0		BW correction factor = $10\log[(47.941\text{MHz})/(3\text{MHz})] = 12.04\text{B}$					
Chain 1		BW correction factor = $10\log[(47.551\text{MHz})/(3\text{MHz})] = 12.00\text{dB}$					
Conclusion: PASS							

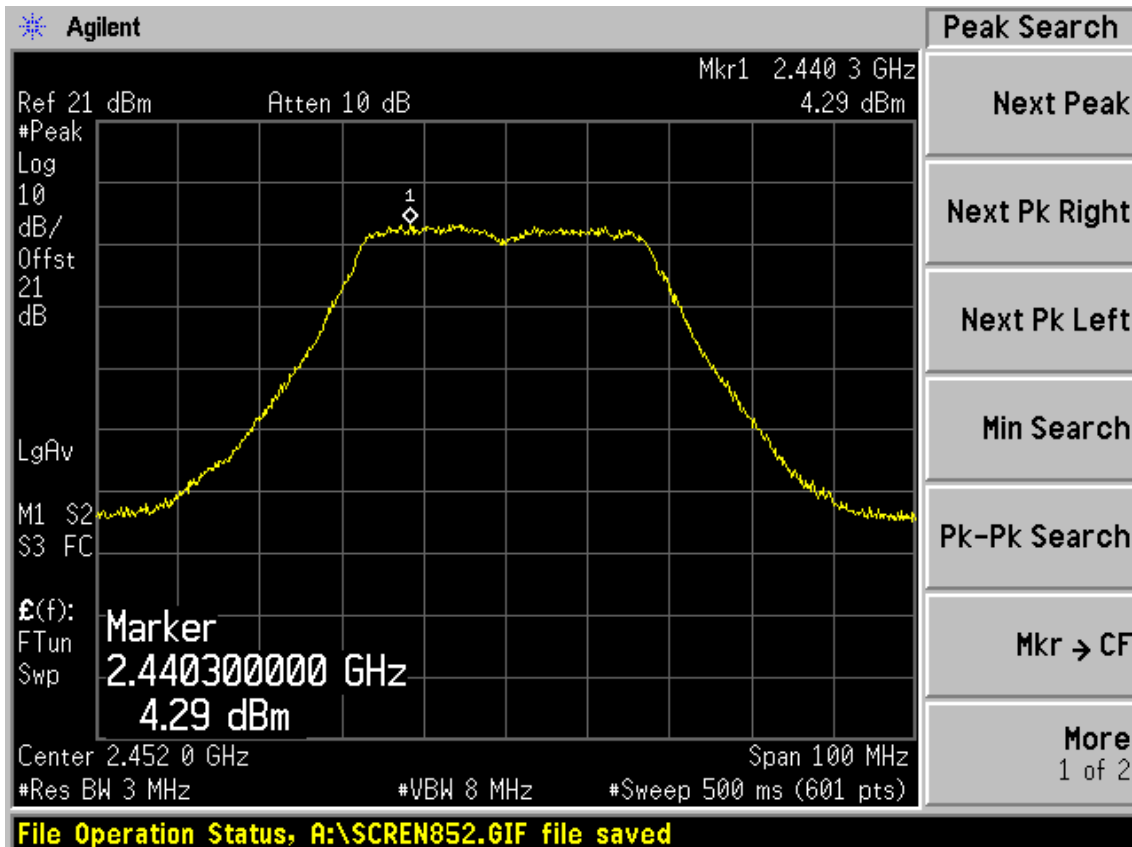
IEEE802.11n HT40 mode

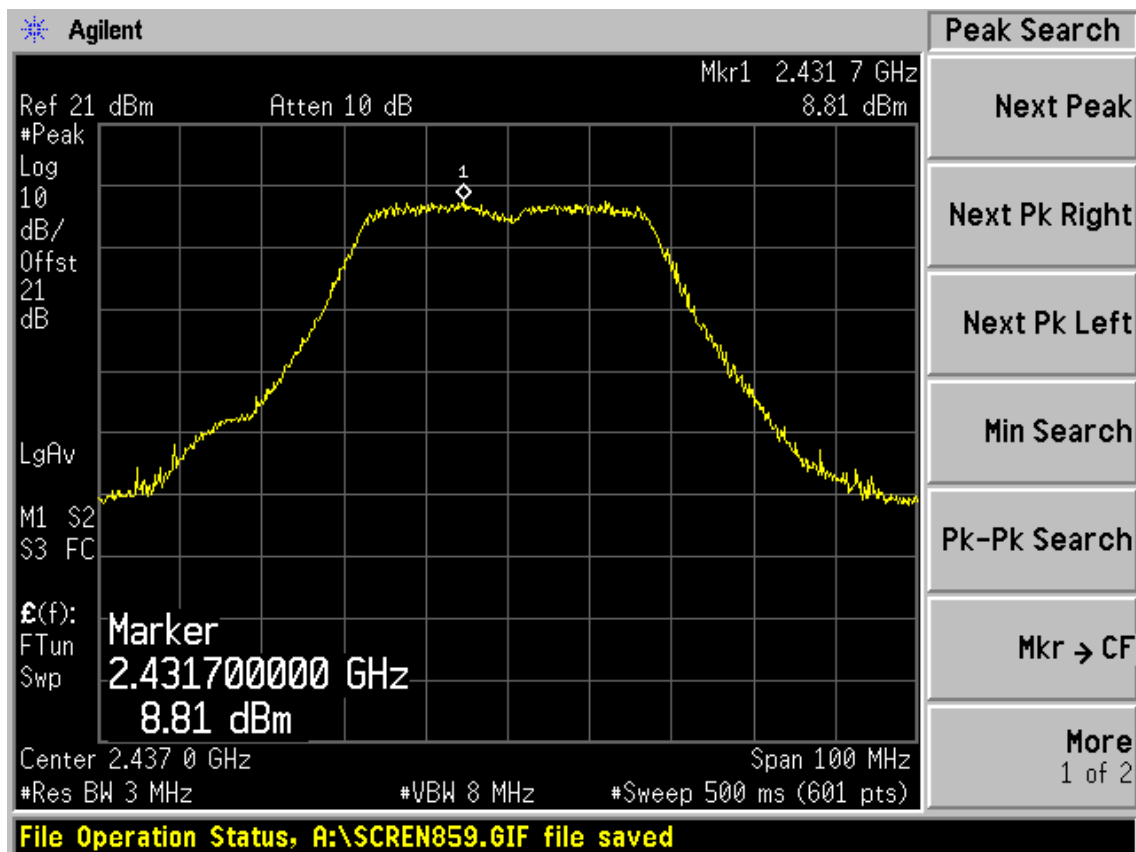
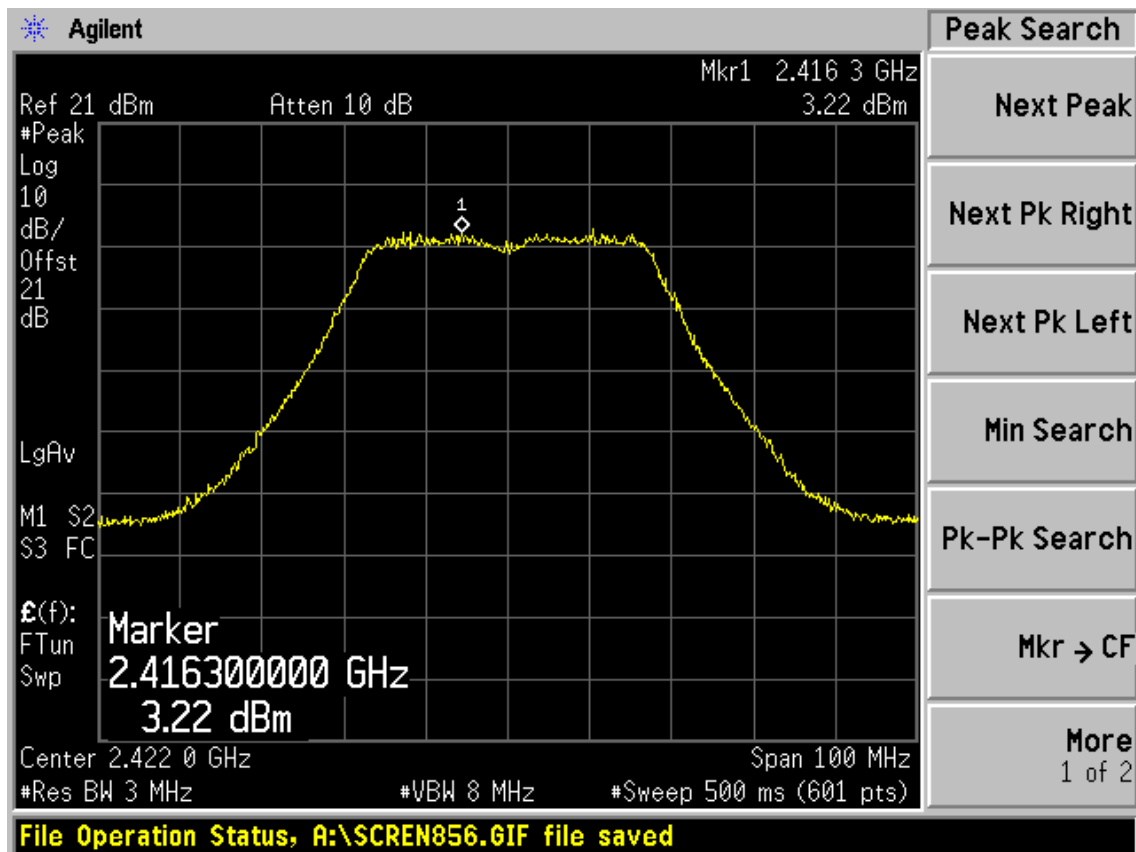
Chain 0





Chain 1





26dB Bandwidth

Chain 0

Agilent

Trace
 Trace 1 2 3
 Clear Write
 Max Hold
 Min Hold
 View
 Blank
 More 1 of 2

Ch Freq 2.422 GHz
Trig Free

Occupied Bandwidth

Ref 21 dBm
Atten 10 dB

#Peak
 Log 10
 dB/Offst 21
 dB

Center 2.422 00 GHz
Span 60 MHz

Res BW 560 kHz
VBW 6 MHz
Sweep 1 ms (601 pts)

Occupied Bandwidth	Occ BW % Pwr 99.00 %
36.9587 MHz	x dB -26.00 dB
Transmit Freq Error -51.582 kHz	
x dB Bandwidth 47.941 MHz	

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Agilent

Trace
 Trace 1 2 3
 Clear Write
 Max Hold
 Min Hold
 View
 Blank
 More 1 of 2

Ch Freq 2.437 GHz
Trig Free

Occupied Bandwidth

Ref 21 dBm
Atten 10 dB

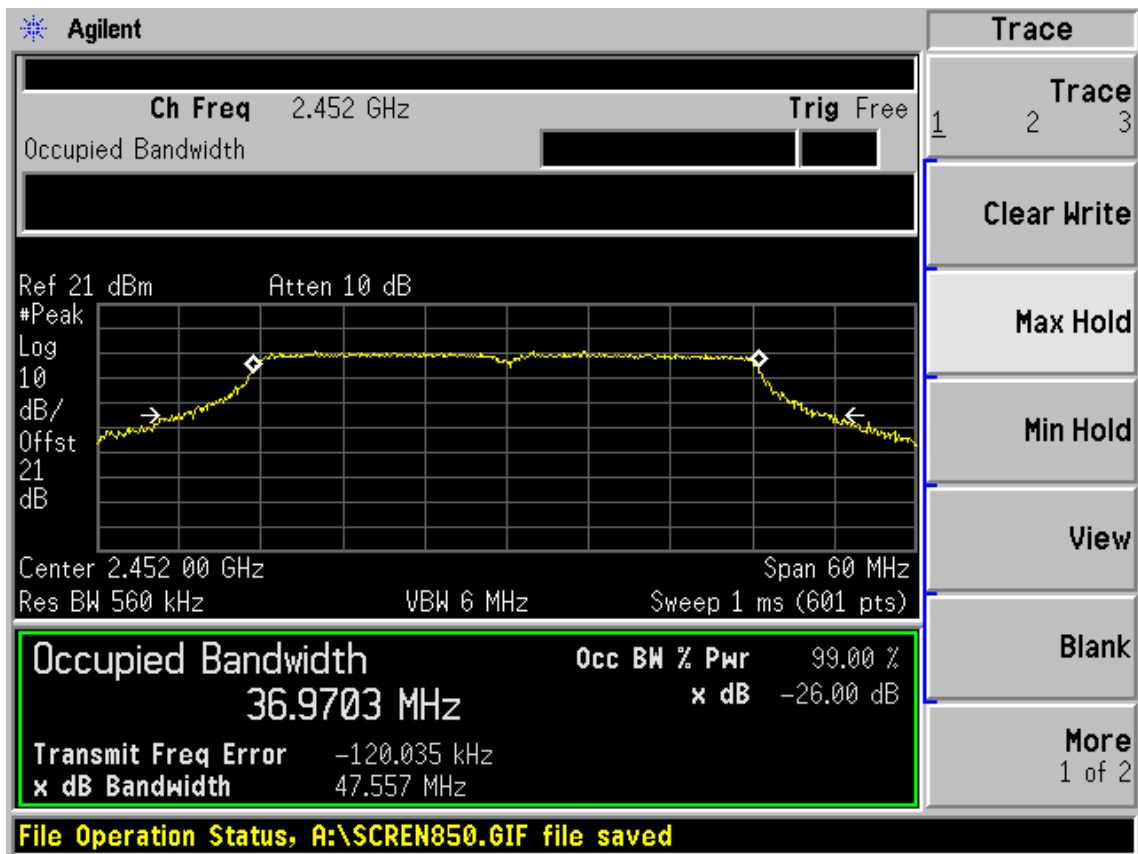
#Peak
 Log 10
 dB/Offst 21
 dB

Center 2.437 00 GHz
Span 60 MHz

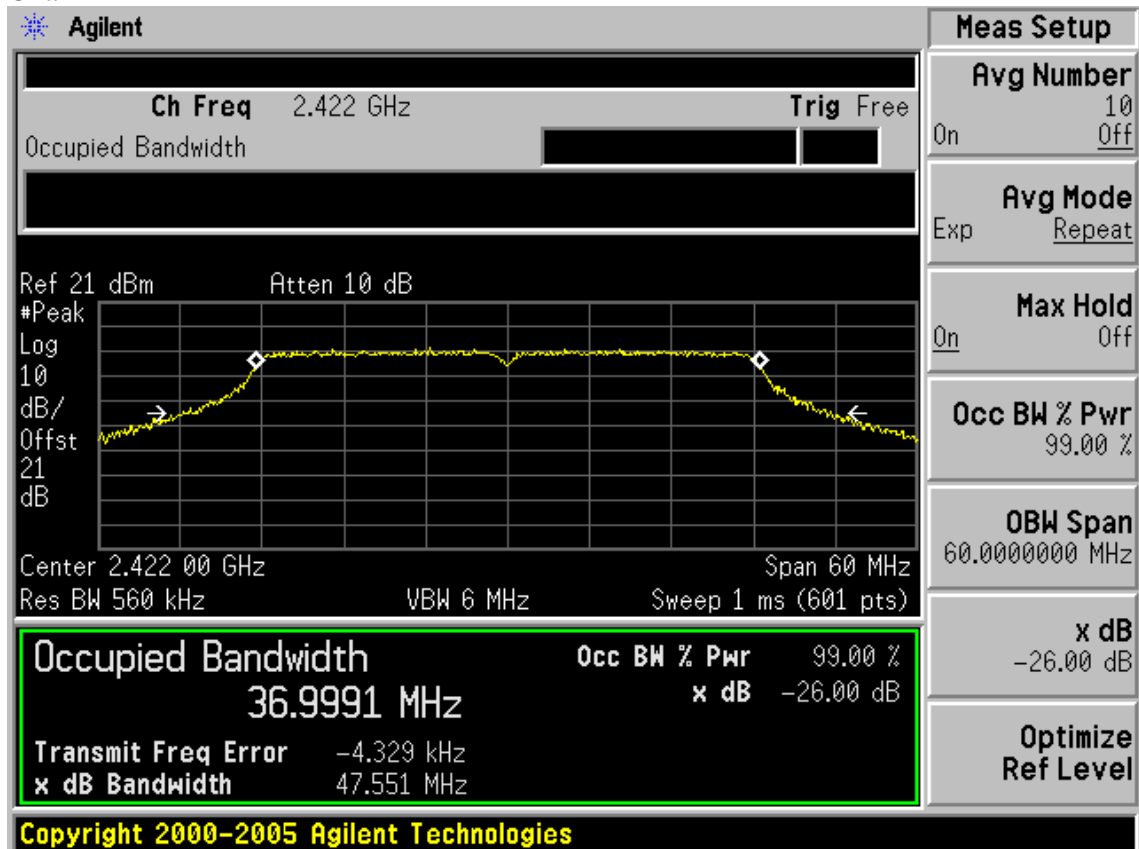
Res BW 560 kHz
VBW 6 MHz
Sweep 1 ms (601 pts)

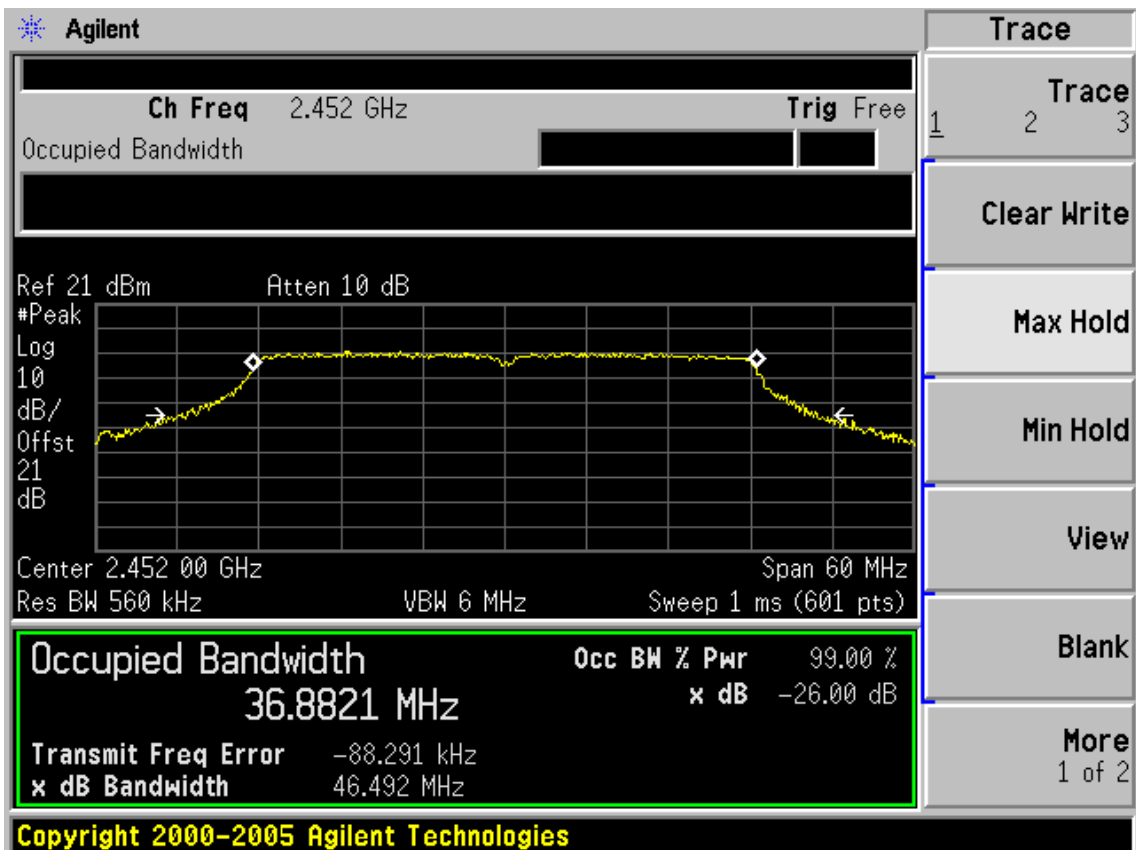
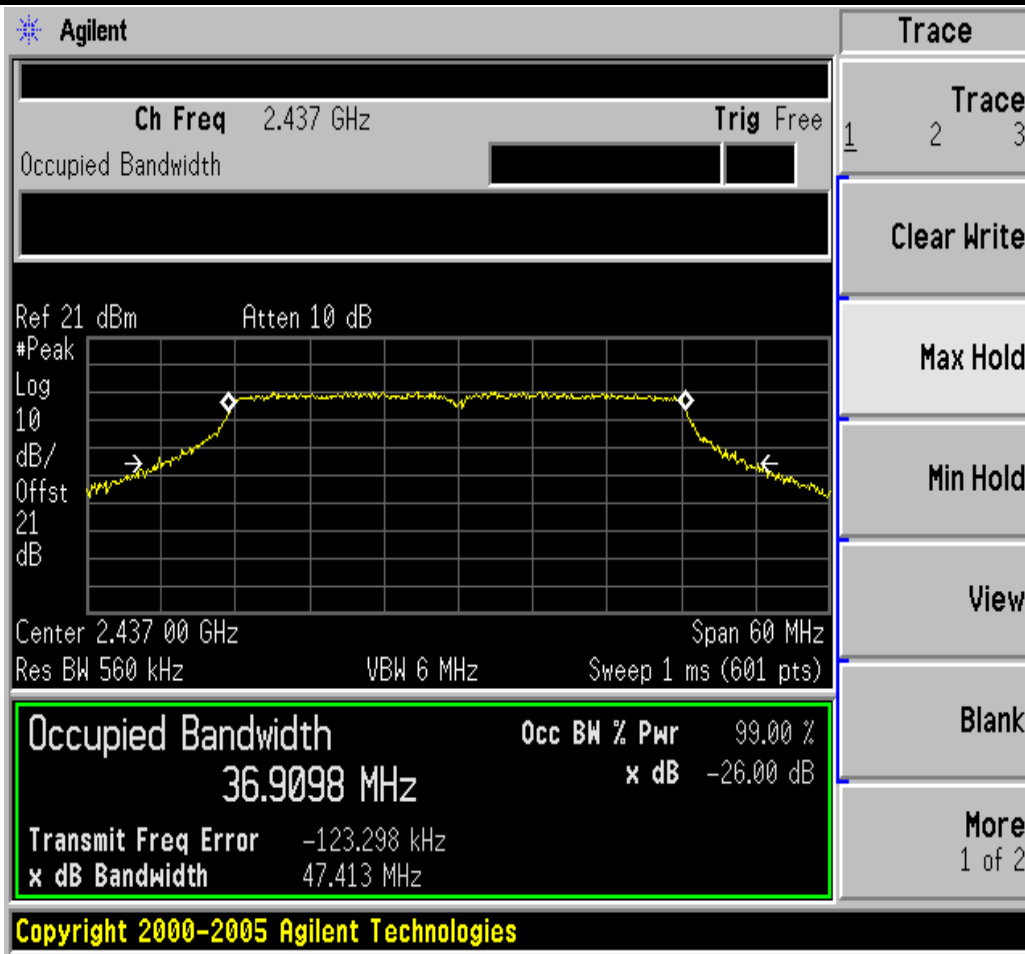
Occupied Bandwidth	Occ BW % Pwr 99.00 %
36.8974 MHz	x dB -26.00 dB
Transmit Freq Error -87.335 kHz	
x dB Bandwidth 47.567 MHz	

File Operation Status, A:\SCREN848.GIF file saved



Chain 1





9. POWER SPECTRAL DENSITY TEST

9.1. Test Equipment

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Spectrum	Agilent	E4446A	US44300459	May.08, 12	1 Year
2.	Amp	HP	8449B	3008A08495	May.08, 12	1 Year
3.	Antenna	EMCO	3115	9510-4580	May.08, 12	1Year
4.	HF Cable	Hubersuhne	Sucoflex104	-	May.08, 12	1 Year

9.2. Limit

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3kHz band during any time interval of continuous transmission.

9.3. Test Procedure

1. Connected the EUT's antenna port to spectrum analyzer device by 20dB attenuator.
2. Set the test frequency as center frequency, Set RBW=3KHz, VBW=10KHz, Span large enough capture the entire frequency, Read out maximum peak level frequency
3. Set the frequency read from produce 2 as center frequency, then set the span=300KHz, Sweep time=Span/RBW, Then Max hold, read out each mode and each chain's Power density.

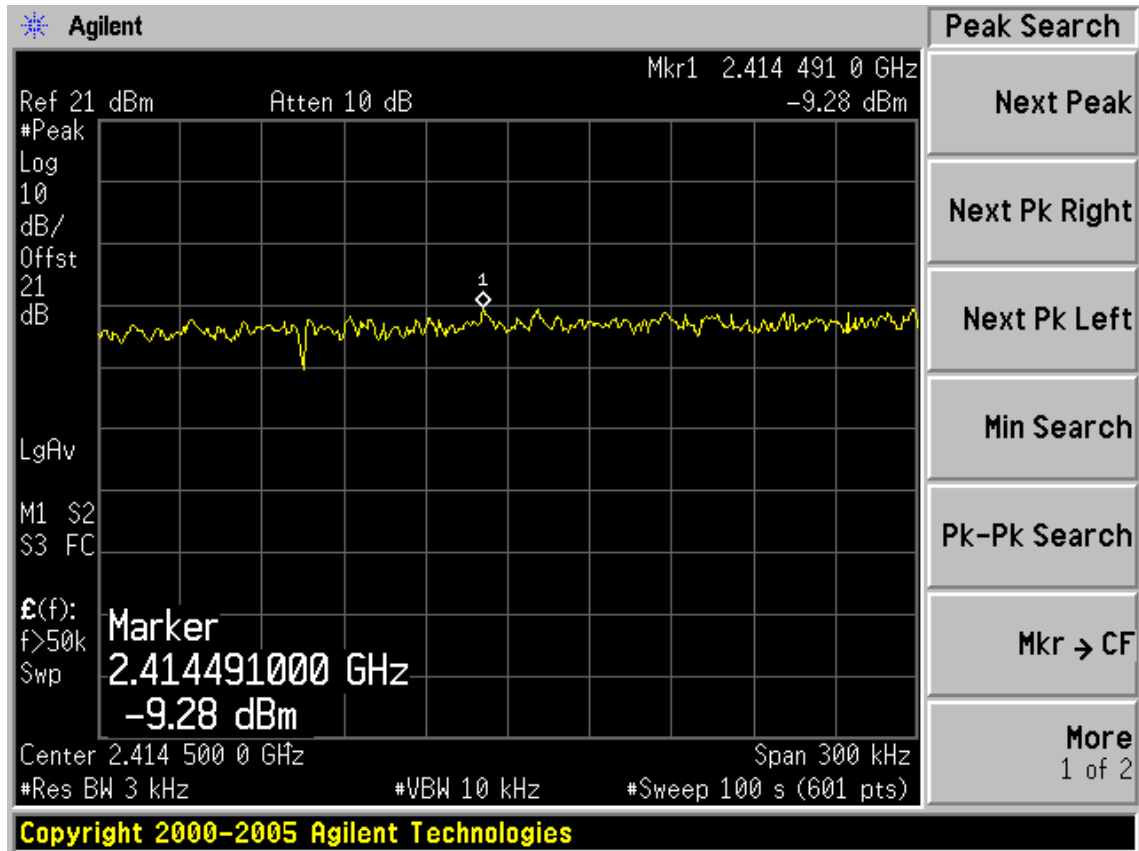
Note: The cable loss and attenuator loss were offset into measure device as an amplitude

9.4. Test Results

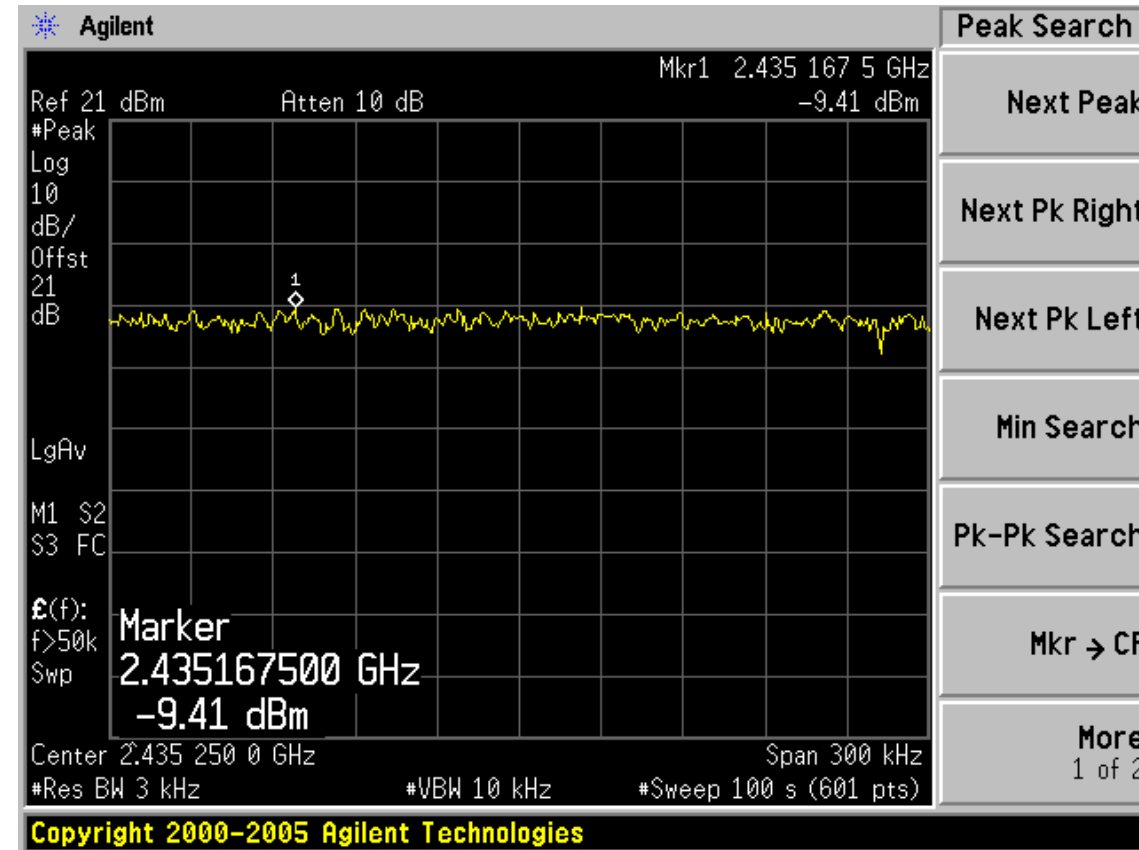
EUT: 300Mbps Wireless N Router		
M/N: RNX-N360RT		
Test date: 2012-08-19	Pressure: 100.9 kpa	Humidity: 53.2 %
Tested by: Leo-Li	Test site: RF Site	Temperature : 25.1°C

Cable loss: 1 dB		Attenuator loss: 20 dB			
Test Mode	CH	Power density (dBm/3KHz)			Limit (dBm/3KHz)
		Chain0	Chain1	Total	
11b	CH1	-9.28	-8.37	N/A	8
	CH6	-9.41	-8.14	N/A	8
	CH11	-9.44	-9.30	N/A	8
11g	CH1	-13.53	-13.28	N/A	8
	CH6	-10.26	-9.81	N/A	8
	CH11	-15.70	-15.00	N/A	8
11n HT20	CH1	-17.79	-17.30	-14.53	8
	CH6	-10.66	-10.59	-7.61	8
	CH11	-17.16	-17.03	-14.08	8
11n HT40	CH1	-21.57	-20.58	-18.04	8
	CH4	-13.40	-11.89	-9.57	8
	CH7	-21.71	-21.10	-18.38	8
Conclusion : PASS					

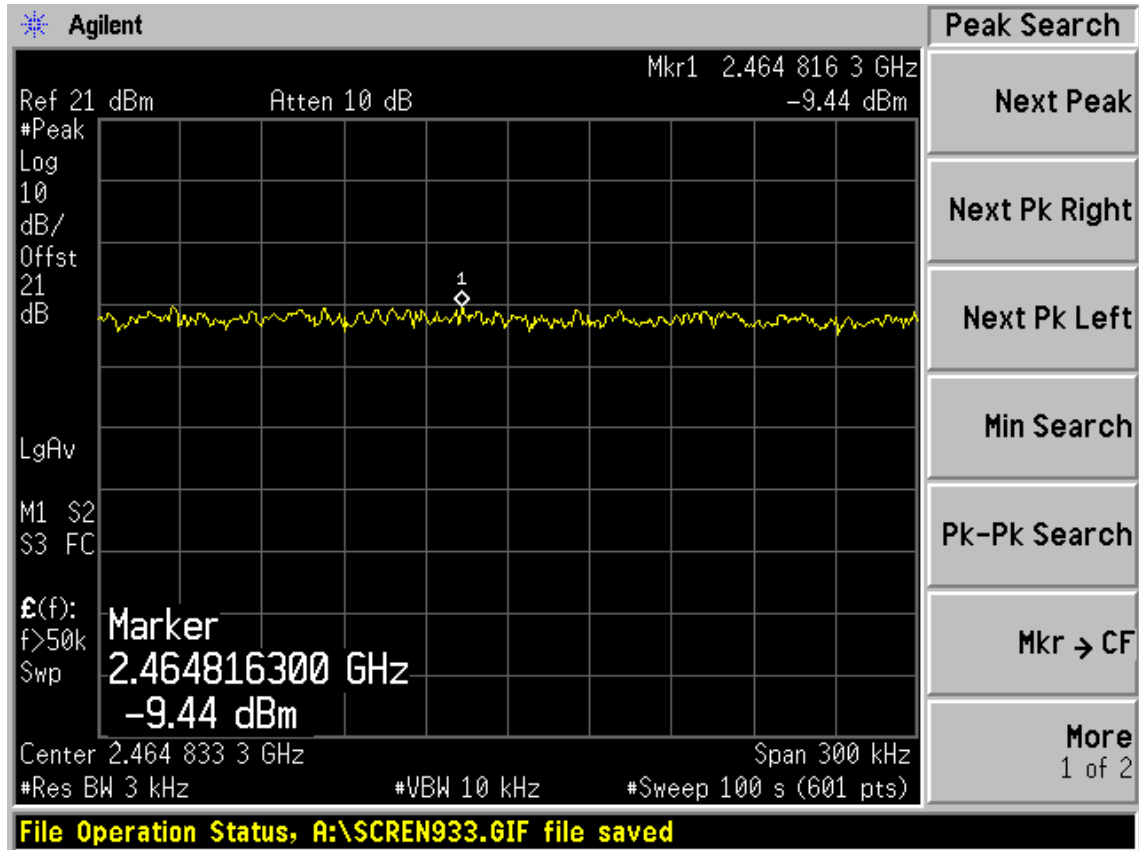
Chain 0
 Test Mode: IEEE 802.11b TX
 Test CH1: 2414MHz



Test CH6: 2435MHz

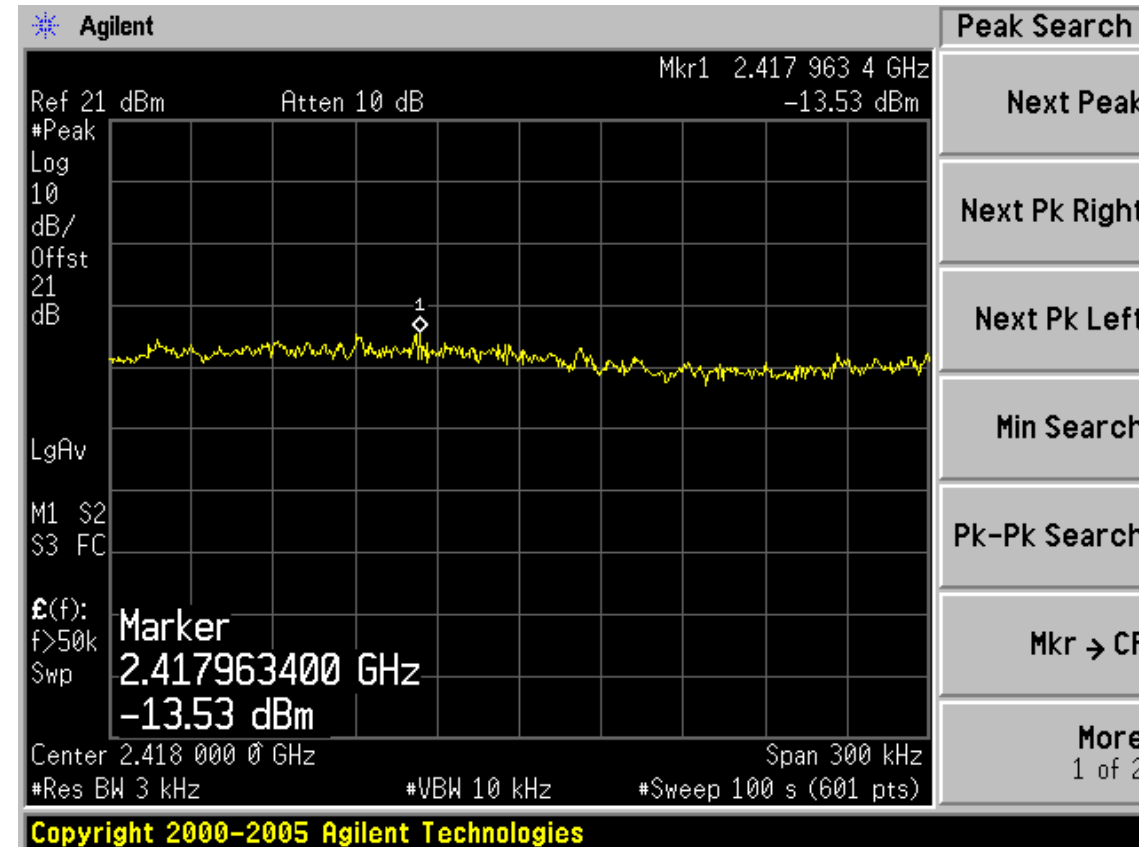


Test CH11: 2464MHz

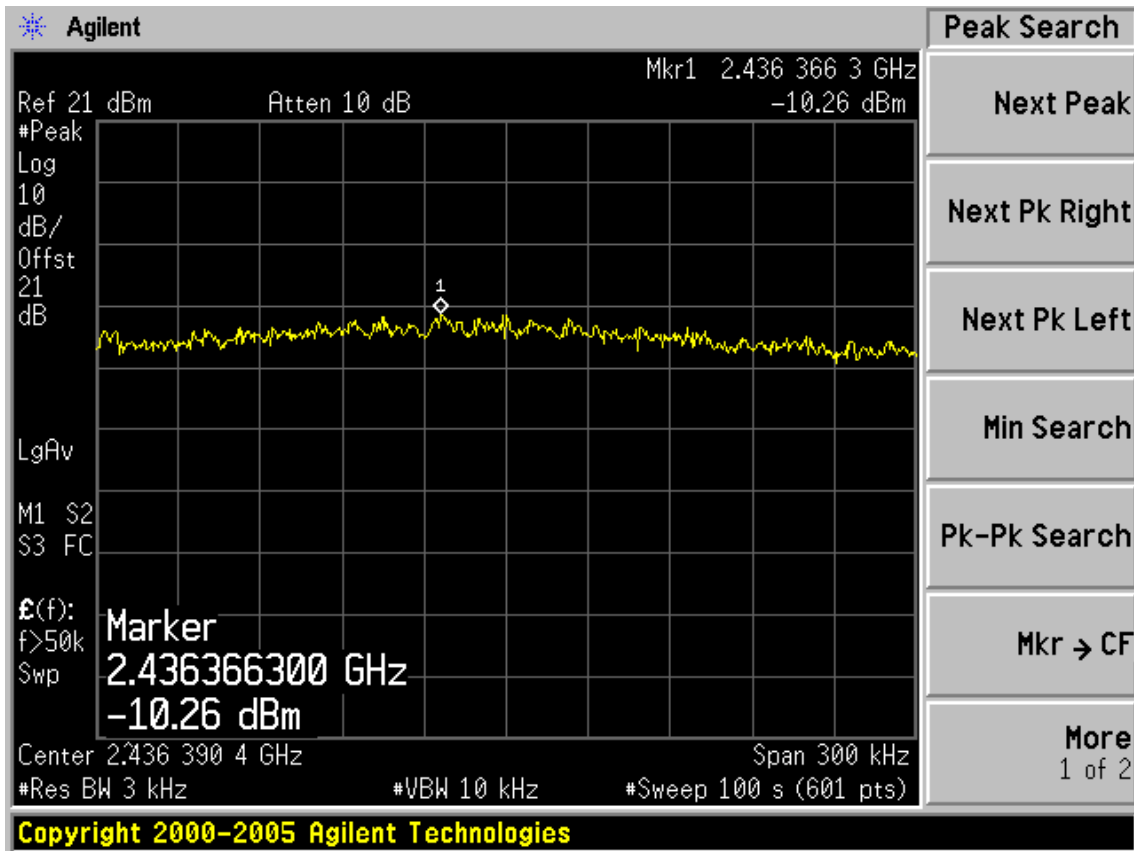


Test Mode: IEEE 802.11g TX

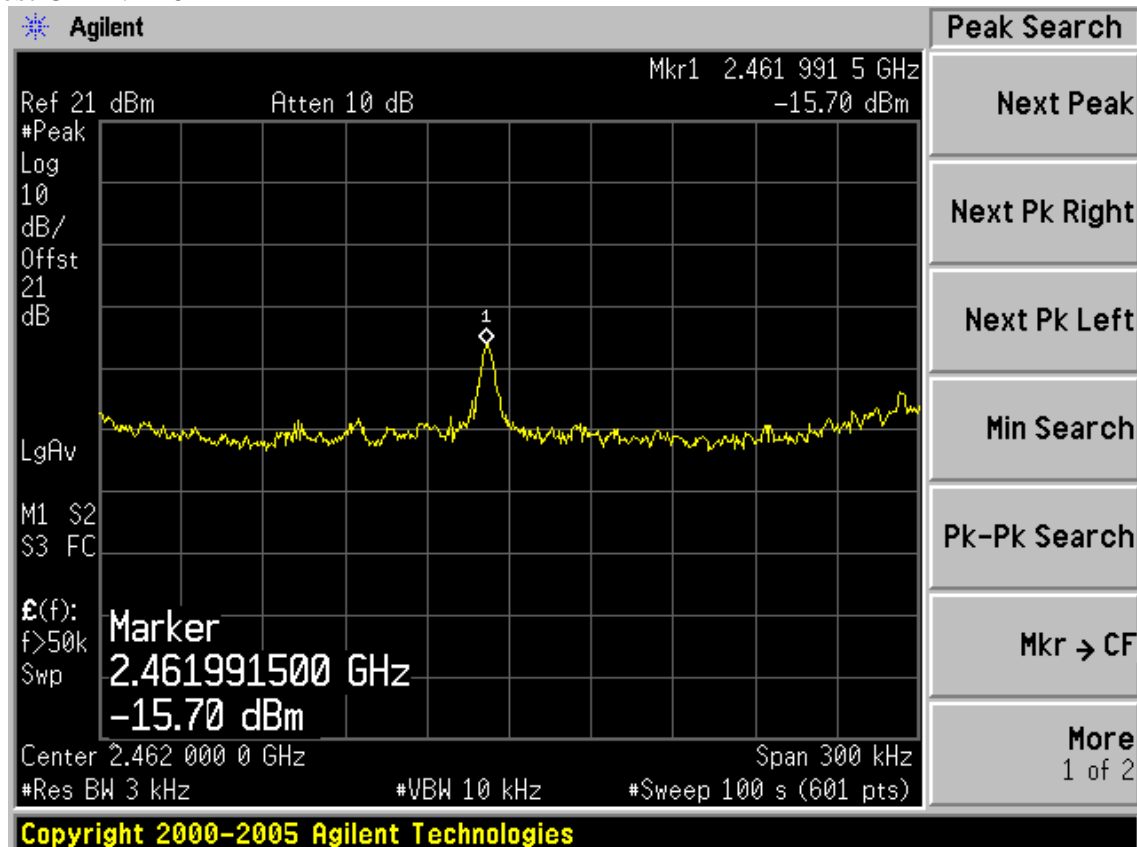
Test CH1: 2412MHz



Test CH6: 2437MHz

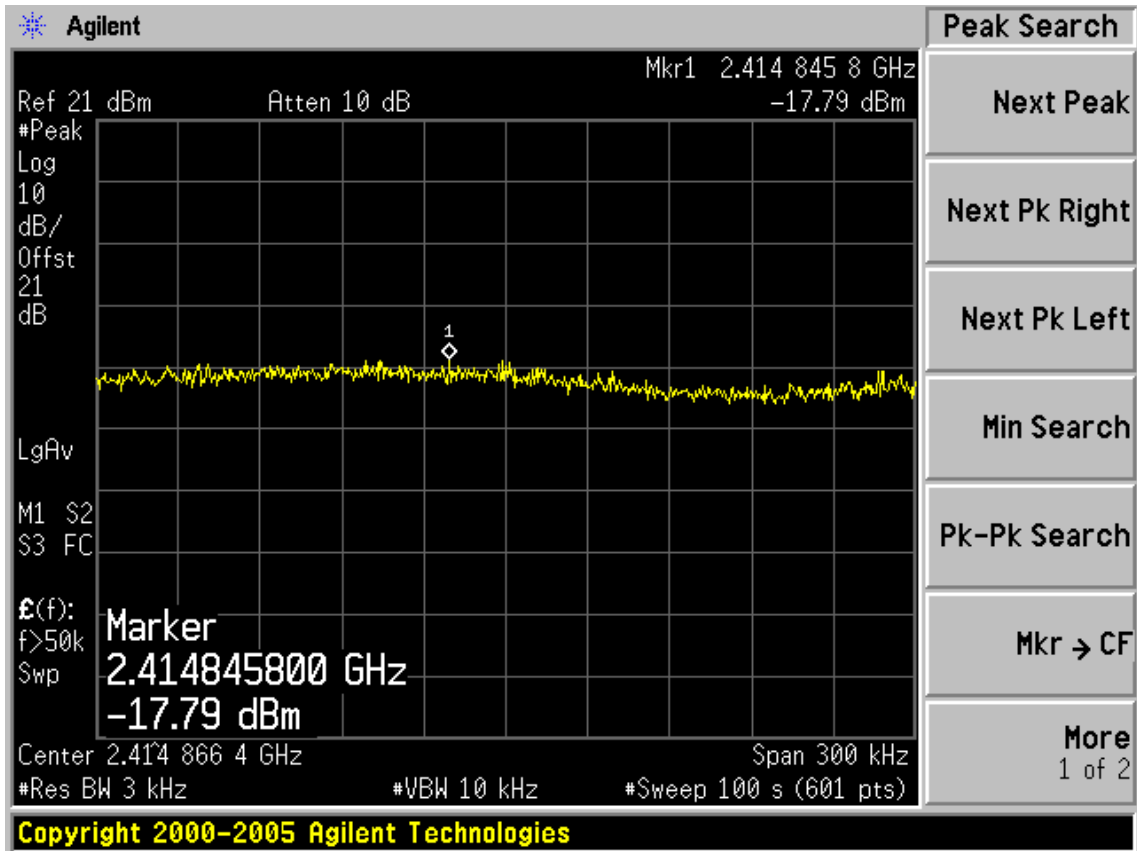


Test CH11: 2462MHz

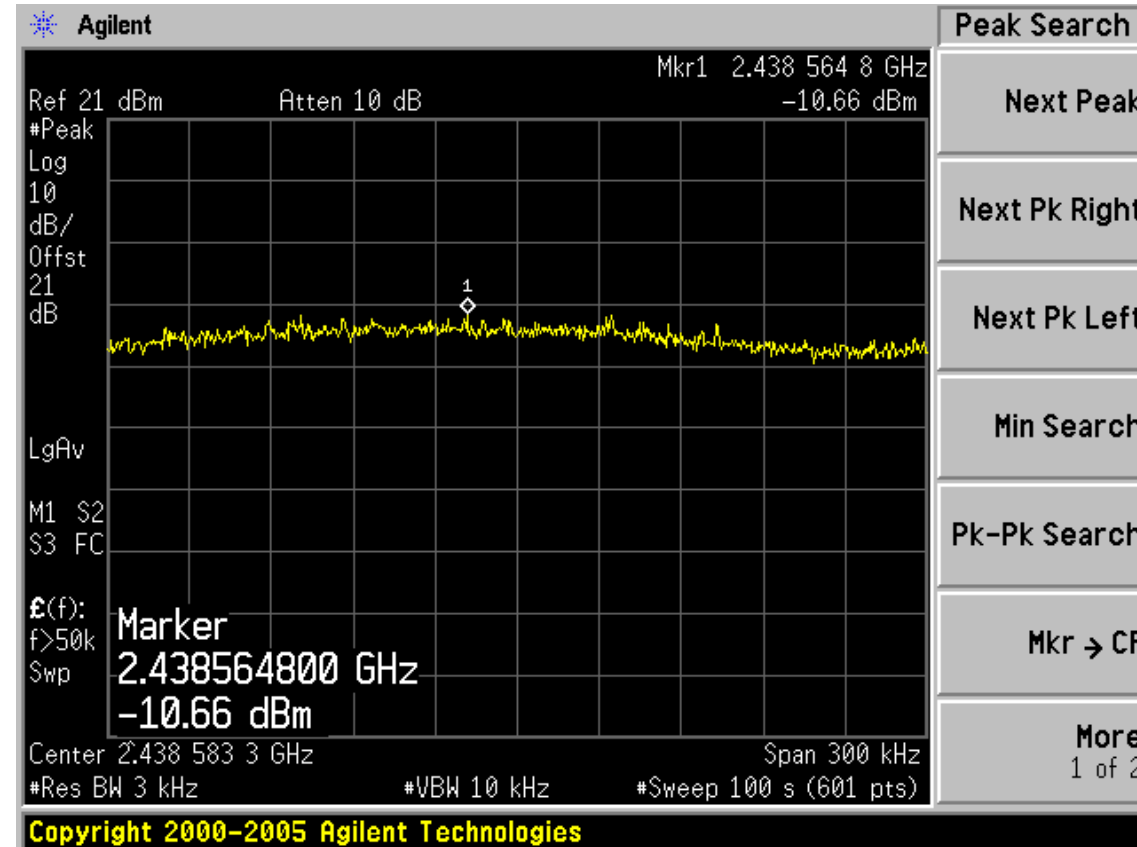


Test Mode: IEEE 802.11n HT20 TX

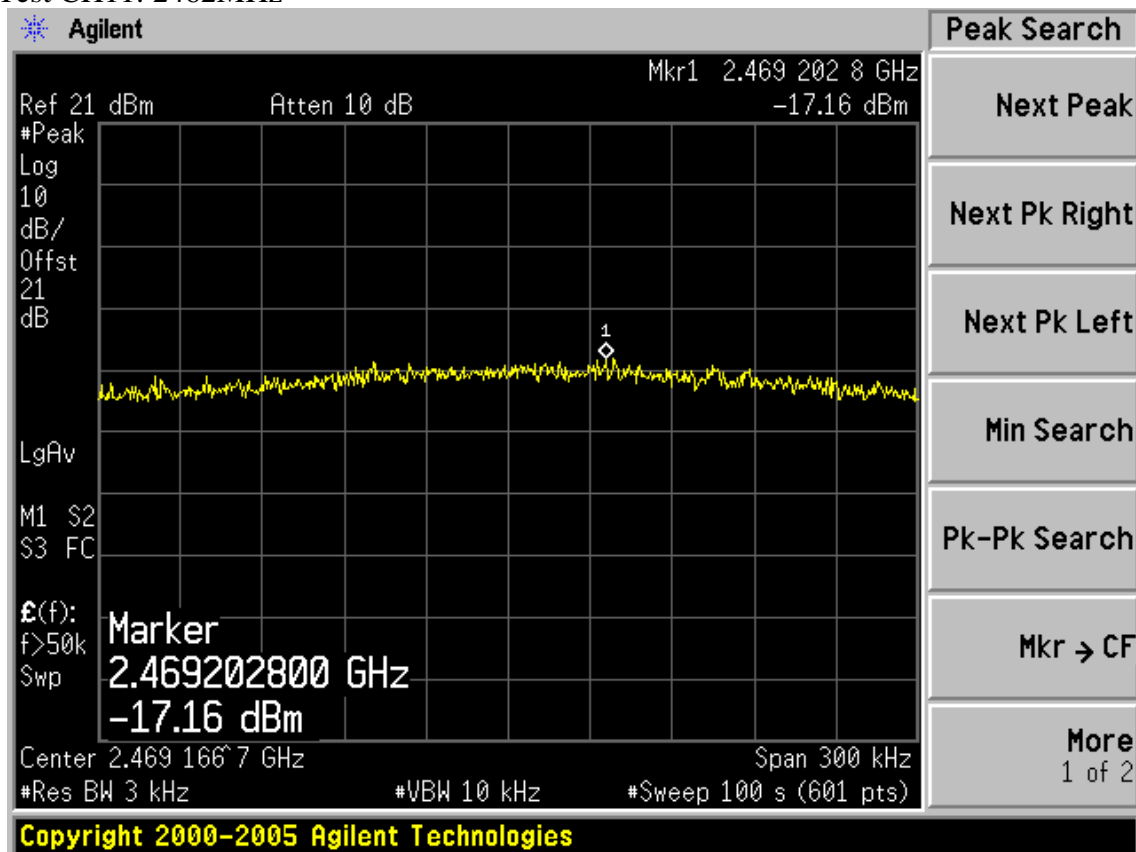
Test CH1: 2412MHz



Test CH6: 2437MHz

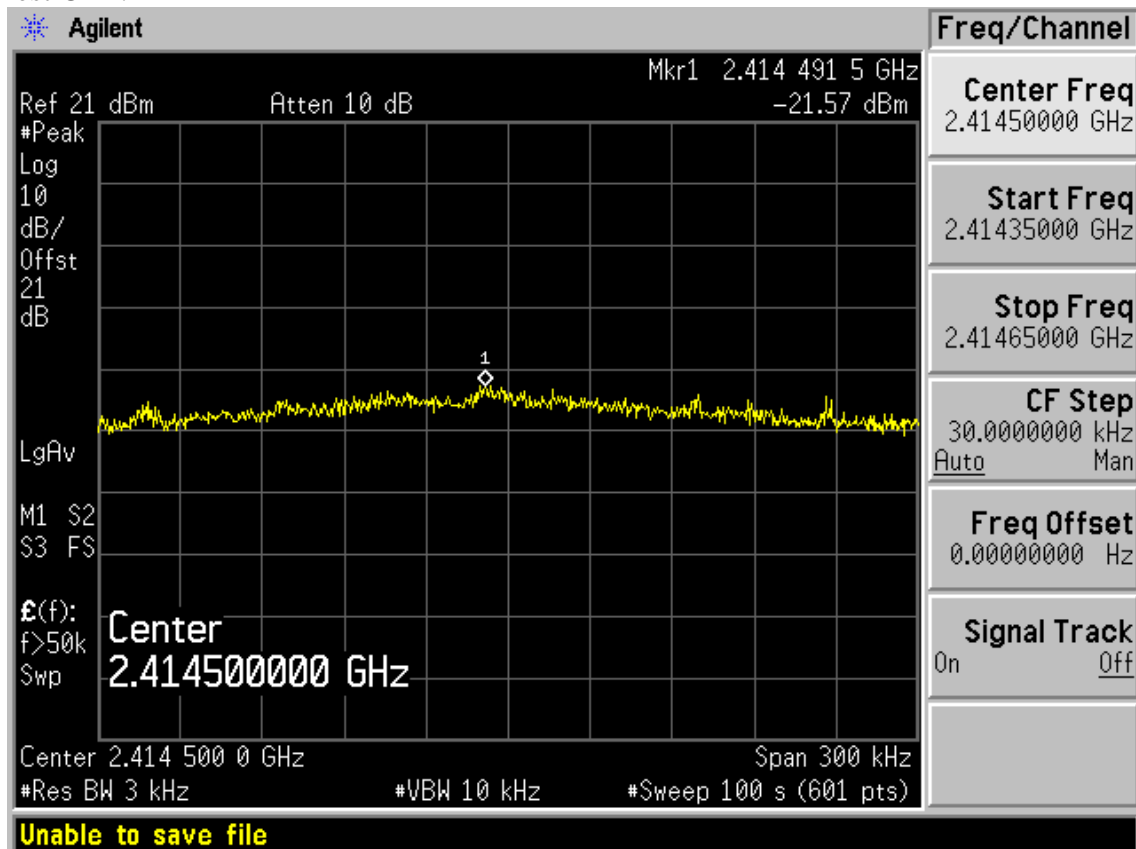


Test CH11: 2462MHz

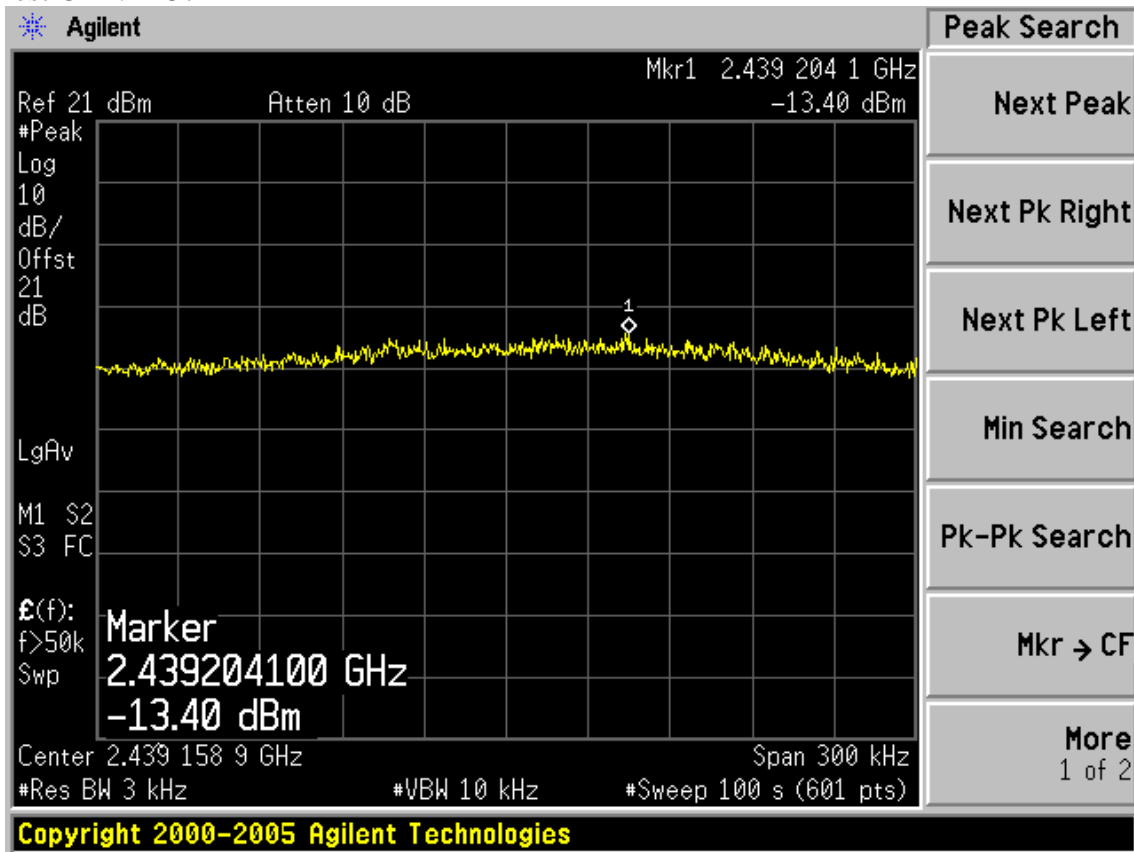


Test Mode: IEEE 802.11n HT40 TX

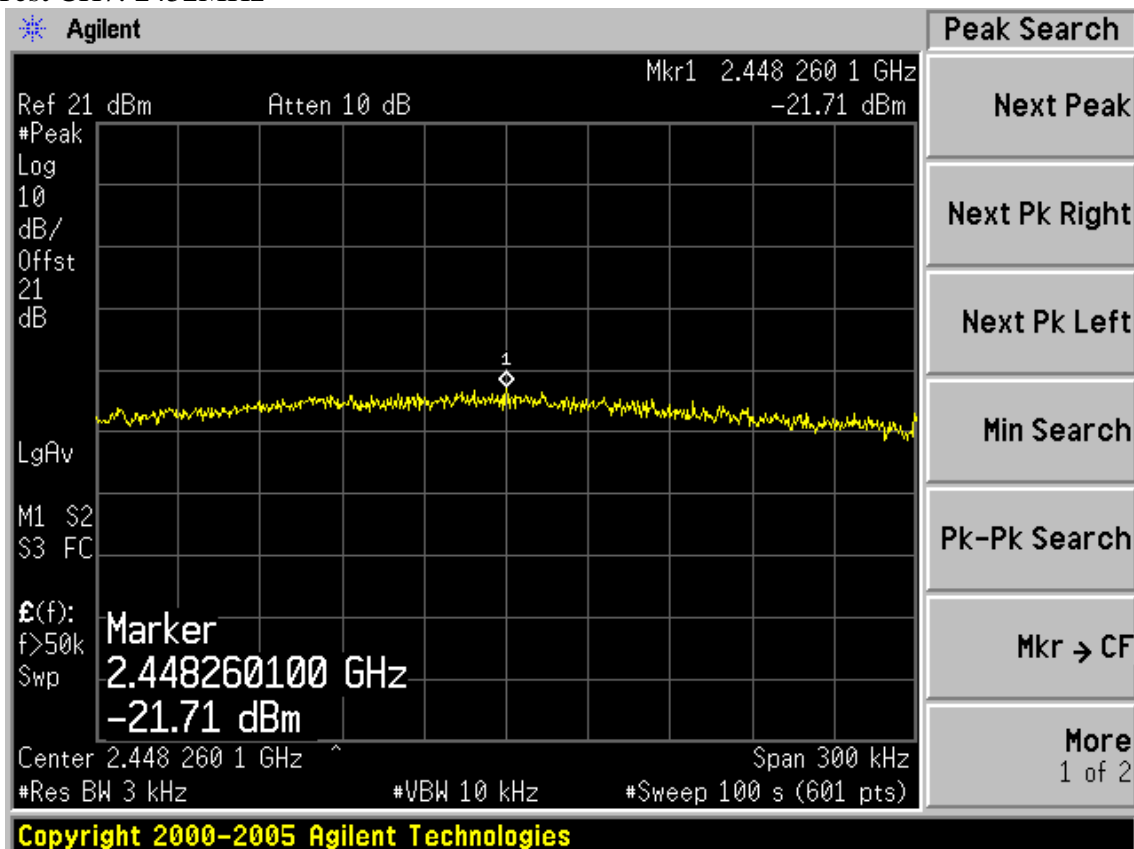
Test CH1: 2422MHz



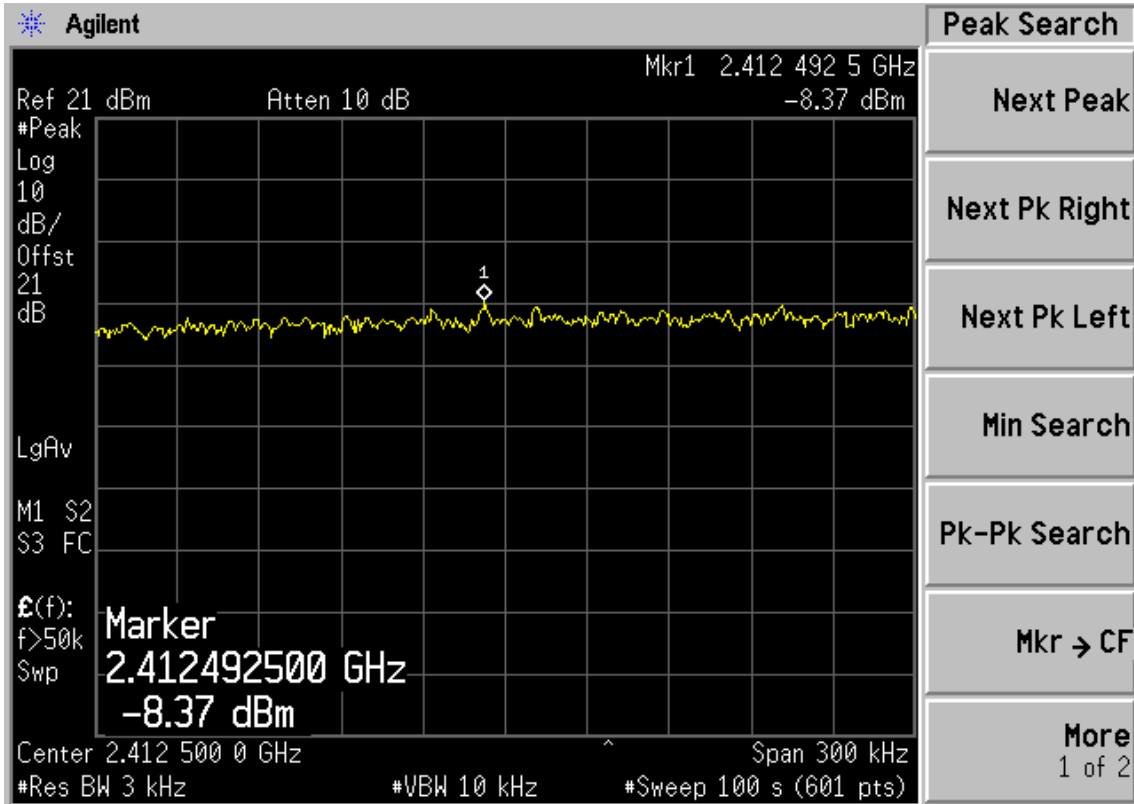
Test CH4: 2437MHz



Test CH7: 2452MHz

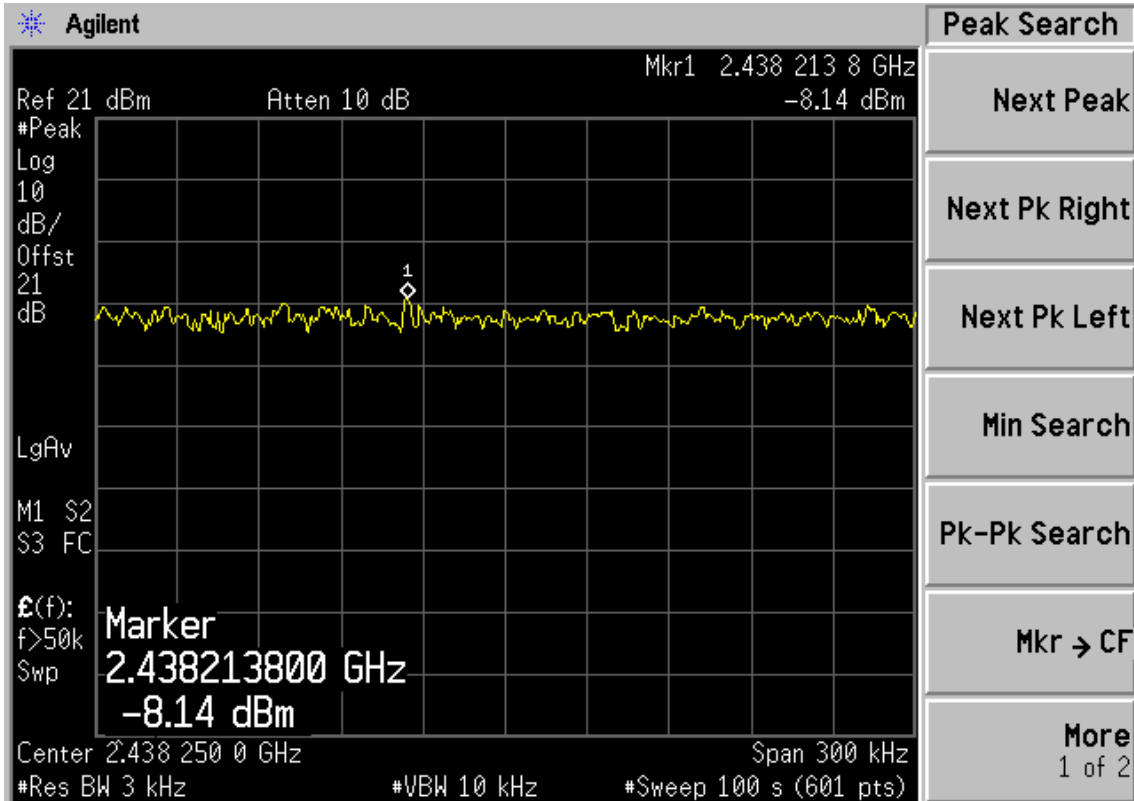


Chain 1
 Test Mode: IEEE 802.11b TX
 Test CH1: 2412MHz



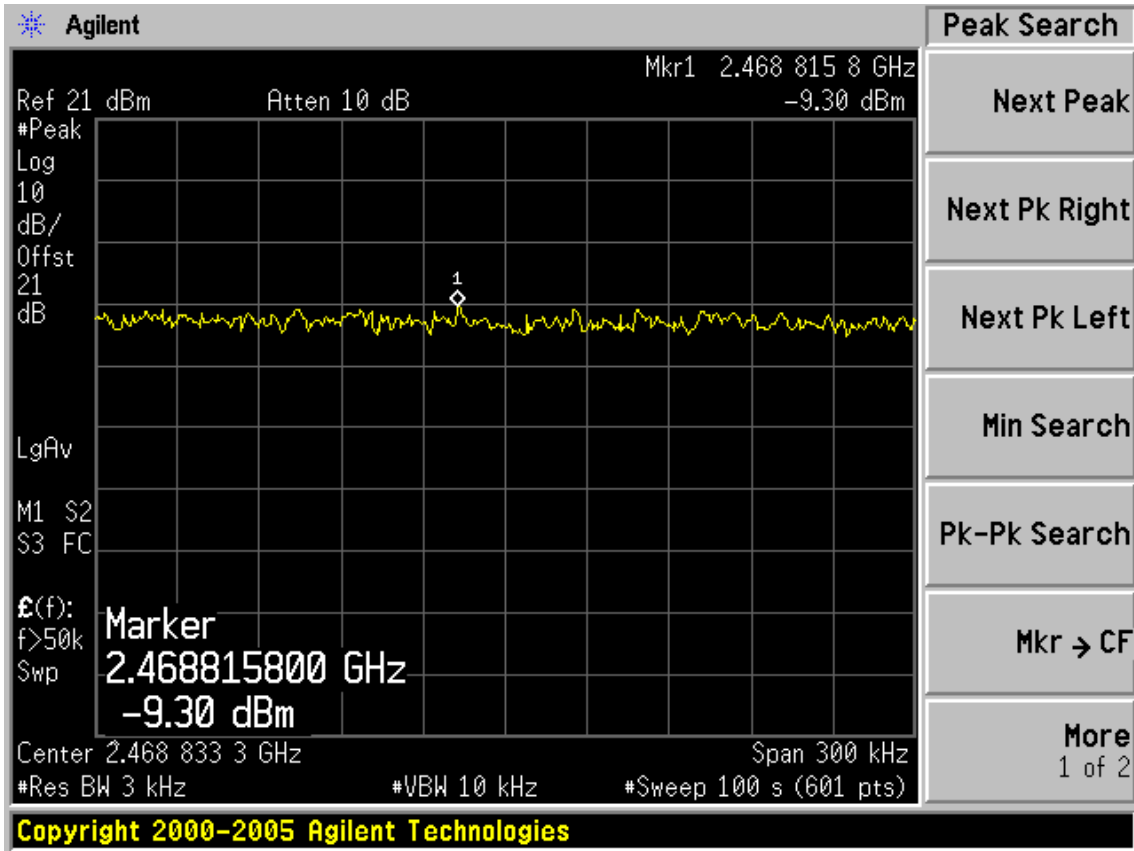
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Test CH6: 2437MHz



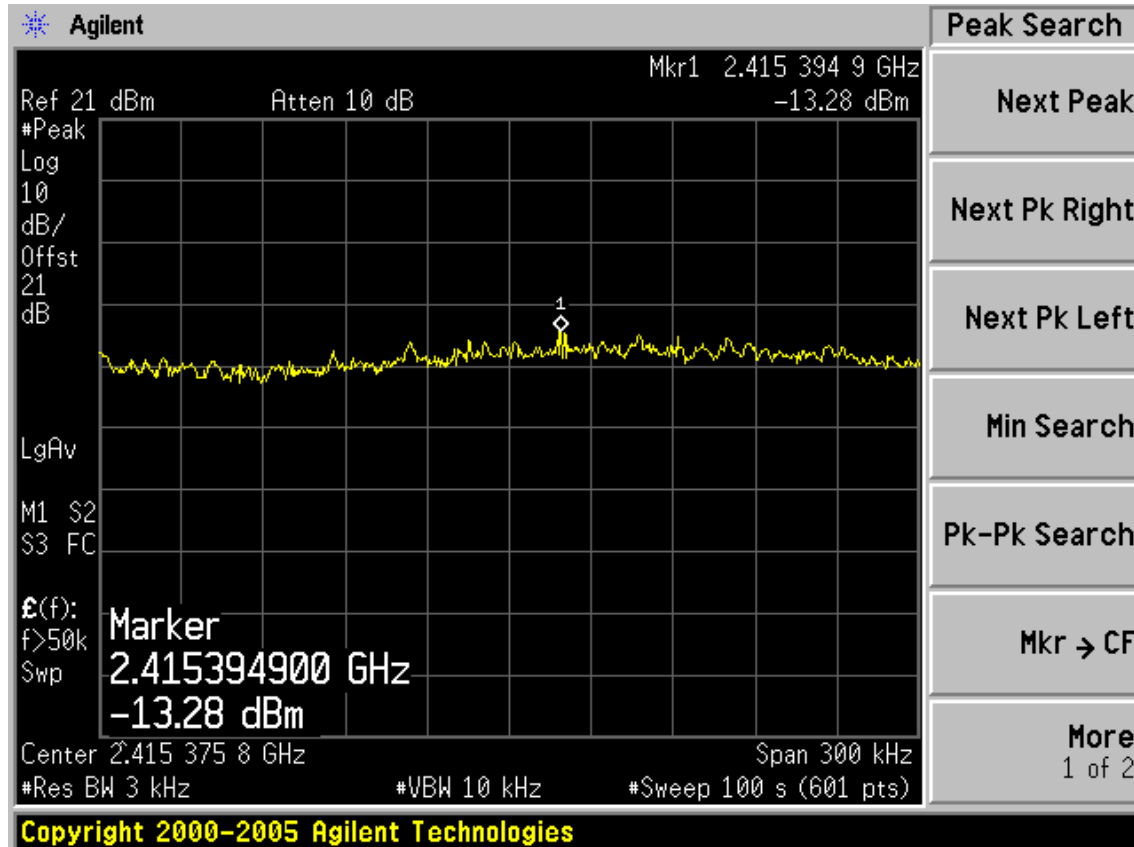
Copyright 2000-2005 Agilent Technologies

Test CH11: 2462MHz

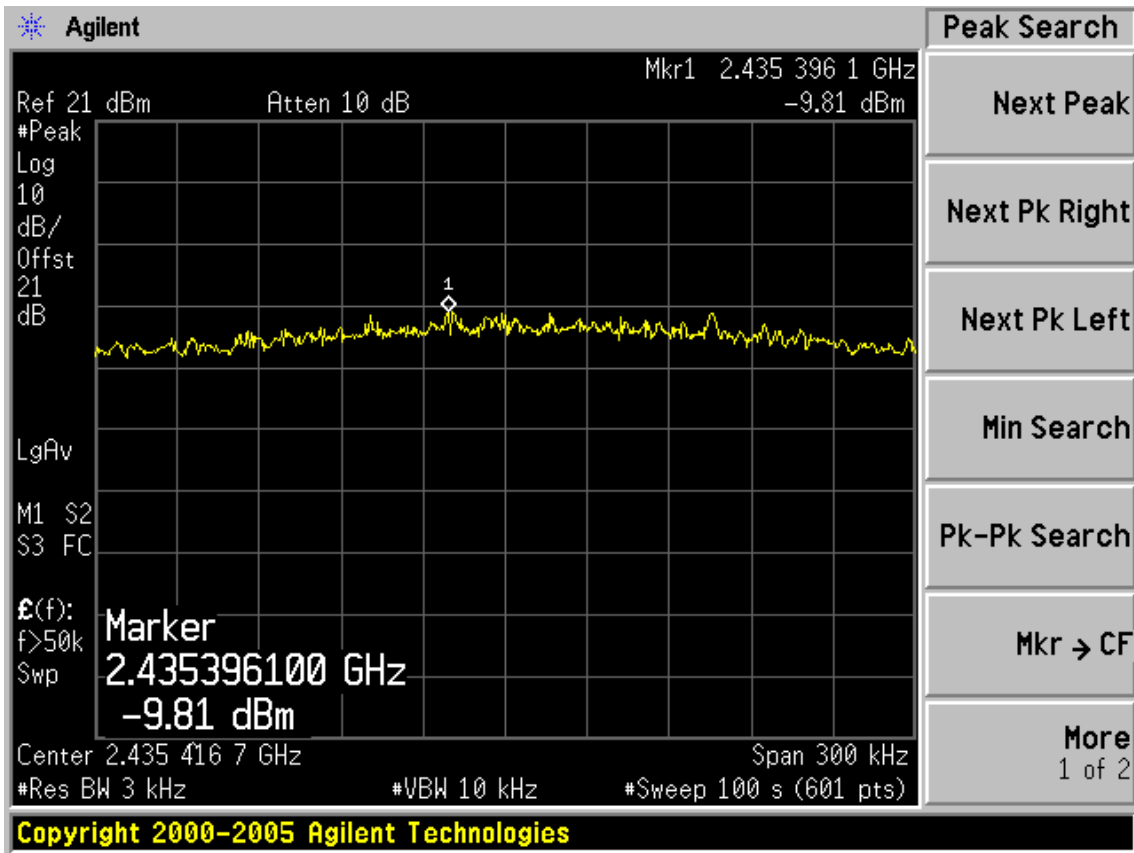


Test Mode: IEEE 802.11g TX

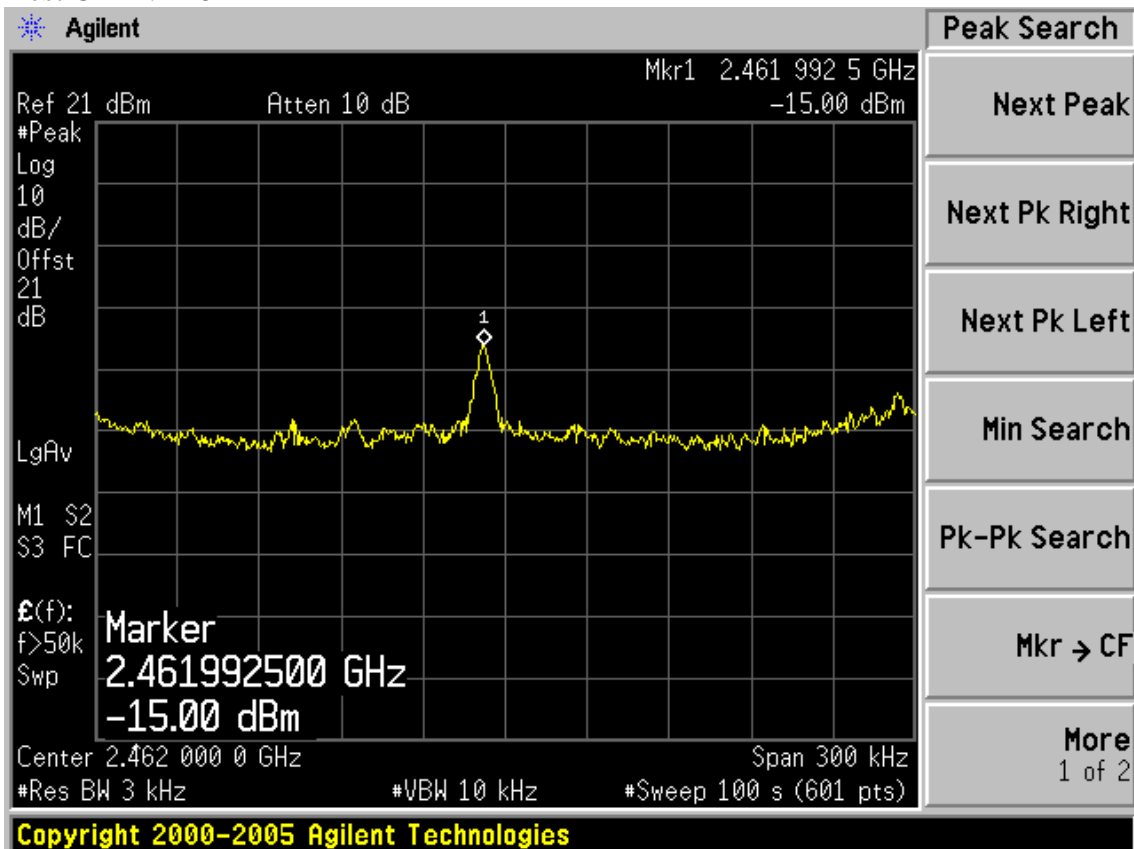
Test CH1: 2412MHz



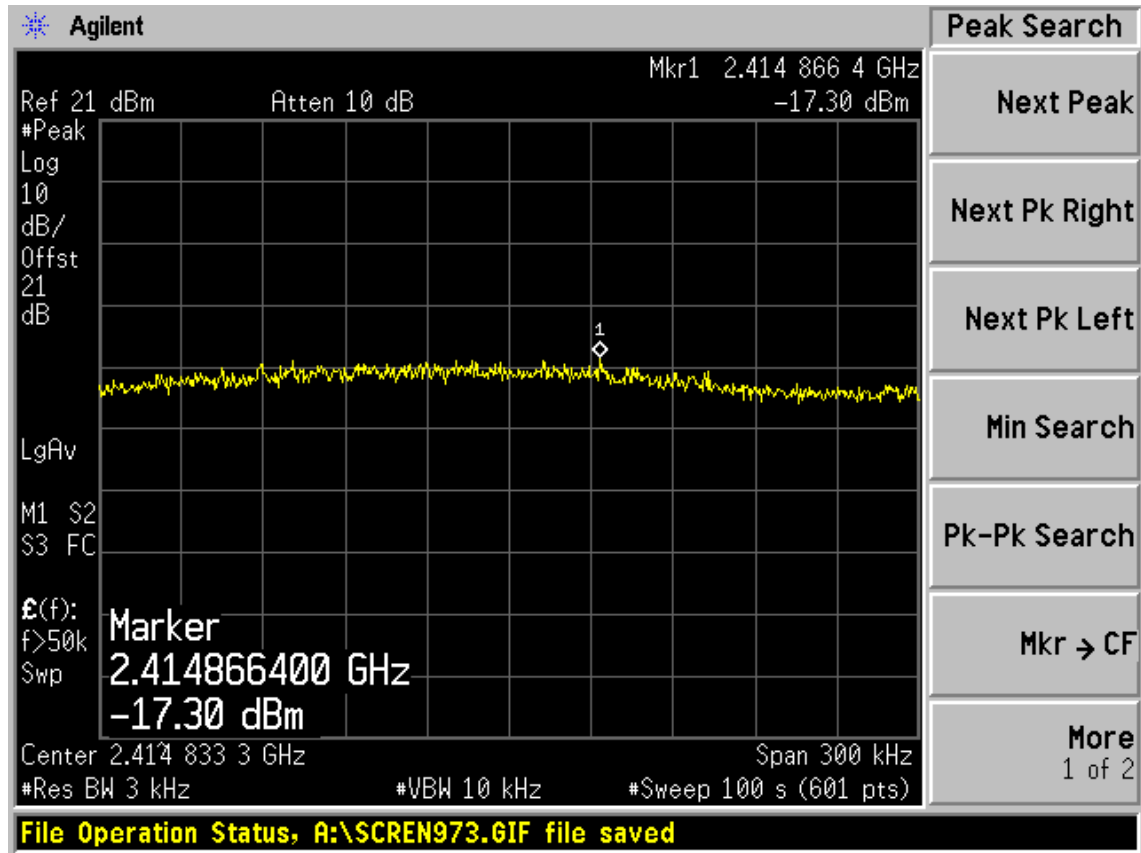
Test CH6: 2437MHz



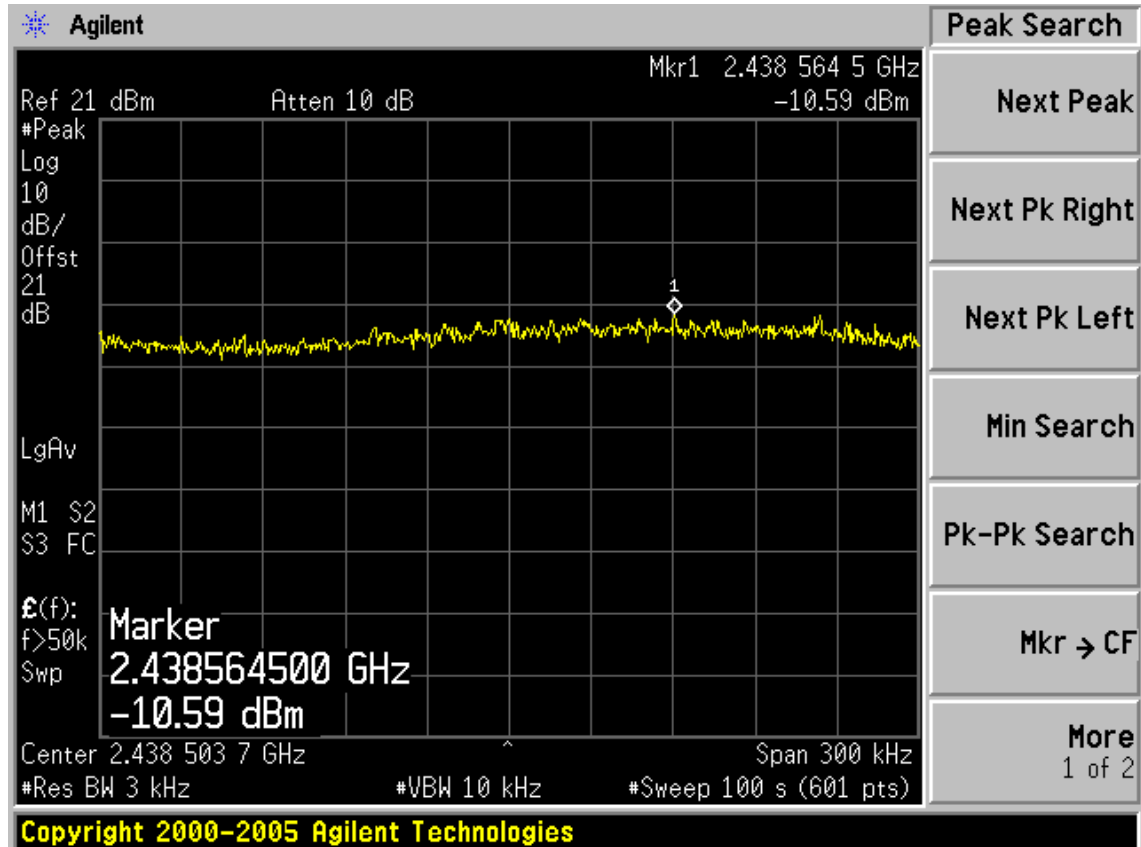
Test CH11: 2462MHz



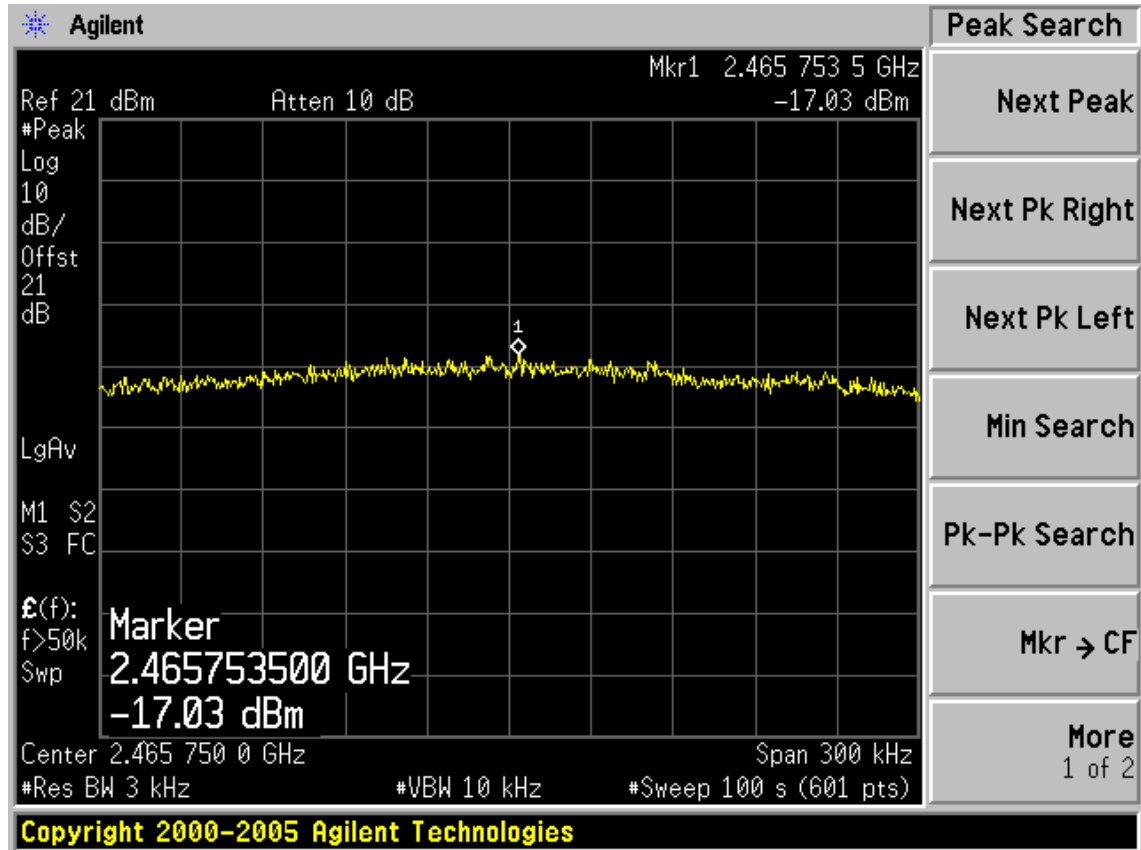
Test Mode: IEEE 802.11n HT20 TX
 Test CH1: 2412MHz



Test CH6: 2437MHz

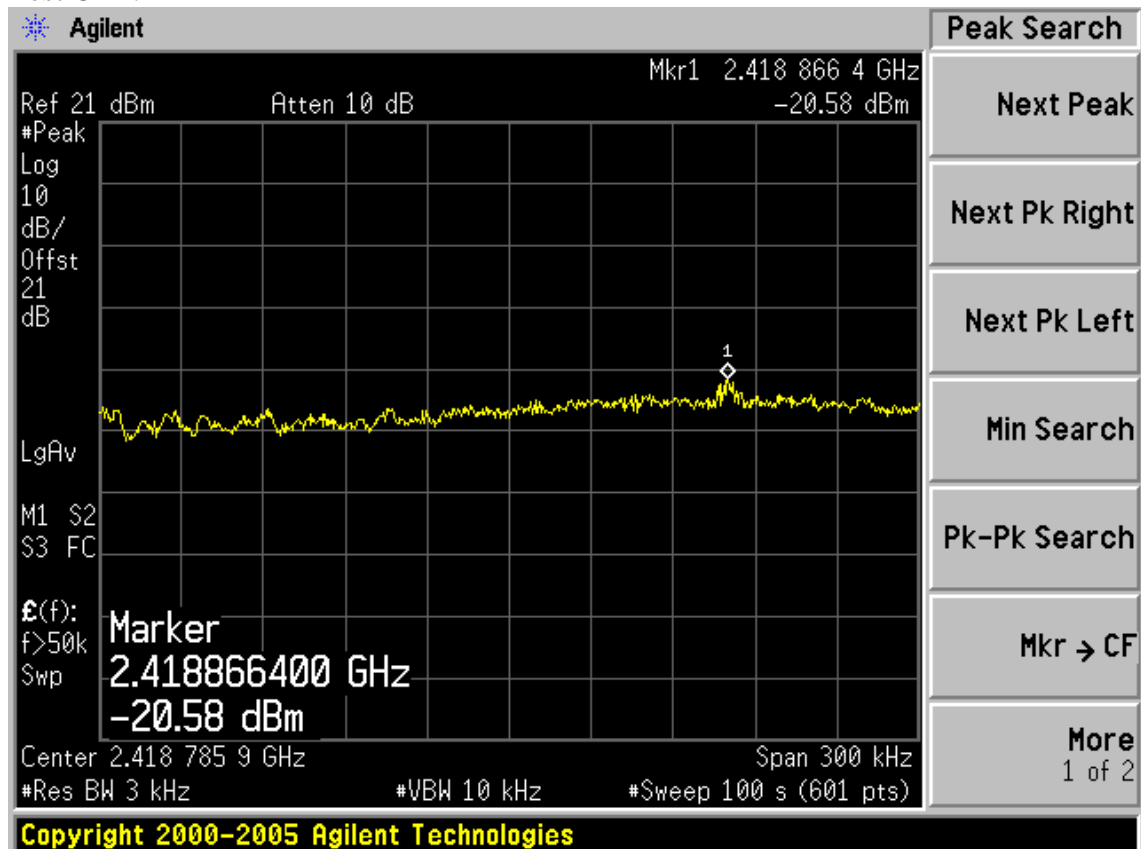


Test CH1: 2462MHz

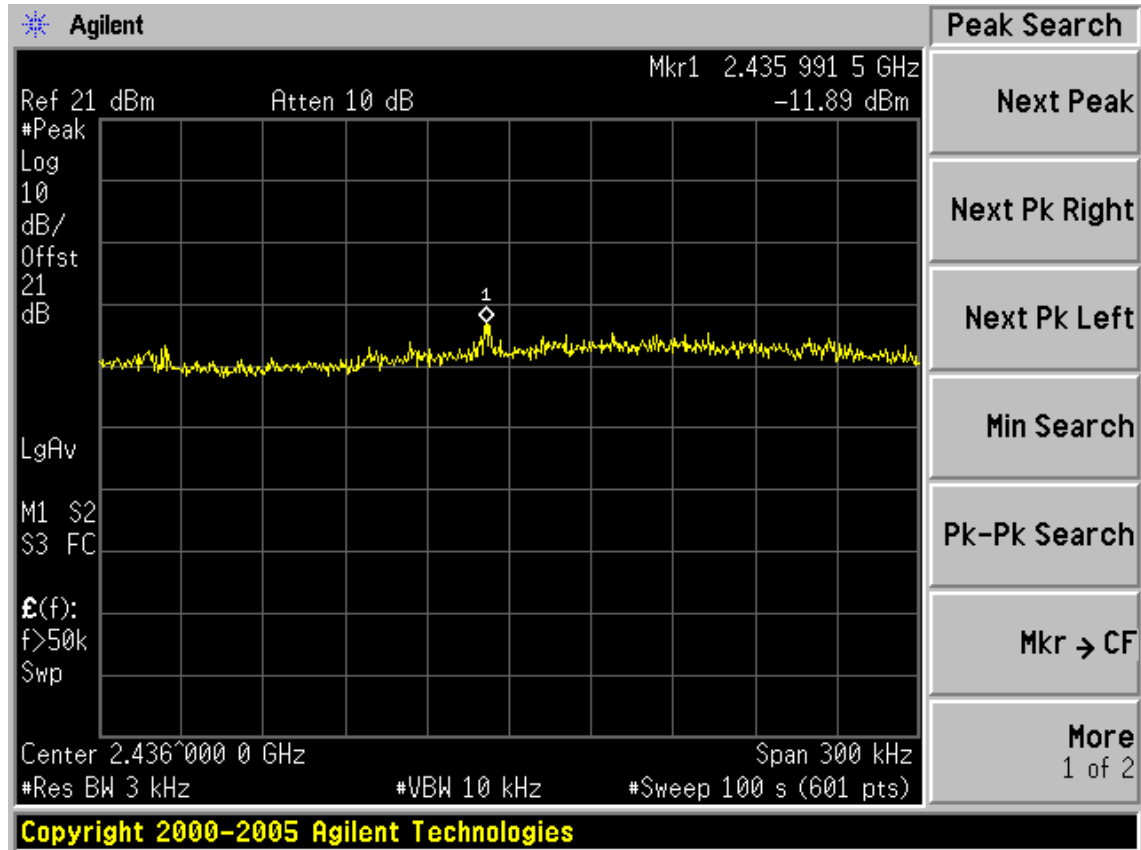


Test Mode: IEEE 802.11n HT40 TX

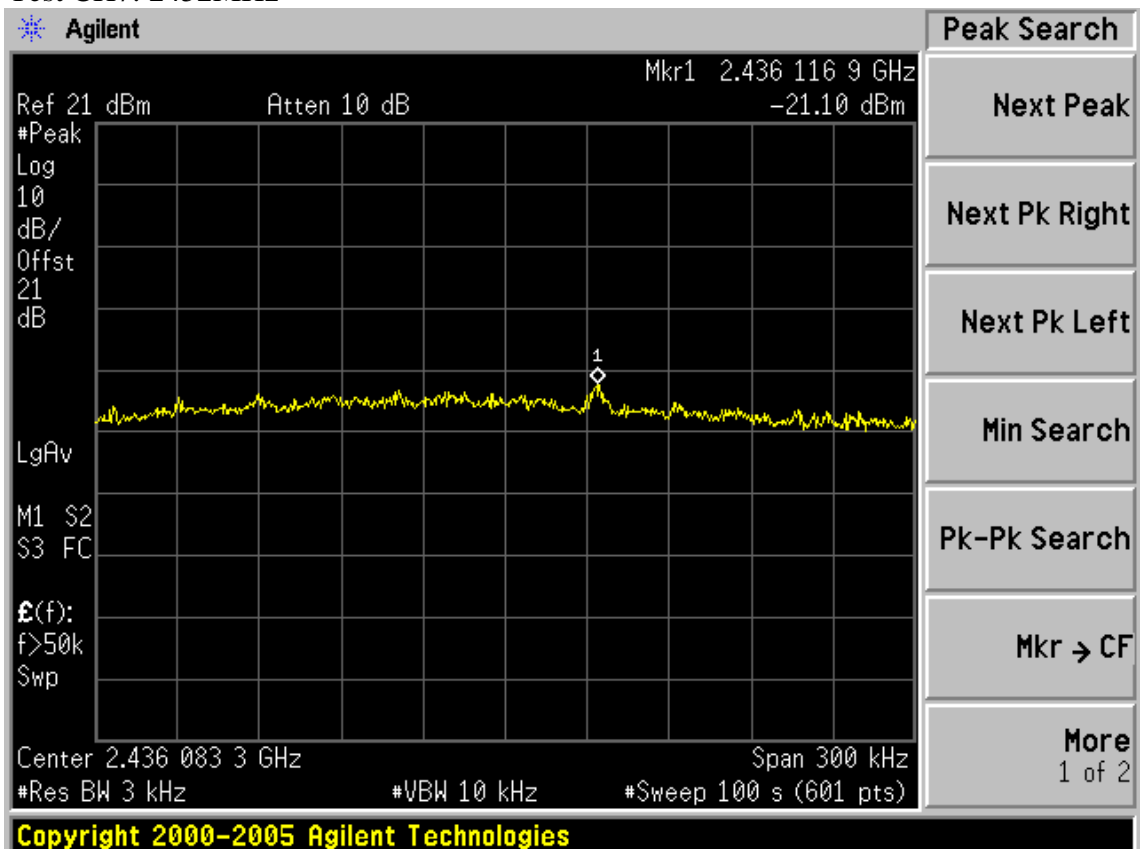
Test CH1: 2422MHz



Test CH4: 2437MHz



Test CH7: 2452MHz



10. ANTENNA REQUIREMENT

10.1. STANDARD APPLICABLE

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247 (b), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

10.2. ANTENNA CONNECTED CONSTRUCTION

The antennas used for this product are MIMO 3X3 dipole antenna with SMA-B connector and that no antenna other than that furnished by the responsible party shall be used with the device, the maximum peak gain of the transmit antenna is only 3dBi.

11.MPE ESTIMATION

11.1.Limit for General Population/ Uncontrolled Exposures

Frequency	Power density (mW/ cm ²)	Averaging time(minutes)
300MHz----1.5GHz	F/1500	30
1.5GHz---100GHz	1.0	30

Frequency(MHz)	Power density (mW/ cm ²)	Averaging time(minutes)
2412	1	30
2437	1	30
2462	1	30

11.2.Estimation Result

EUT: 300Mbps Wireless N Router		
M/N: RNX-N360RT		
Test date:2012-08-18	Pressure: 101.2 kpa	Humidity: 49.9%
Tested by: Leo-Li	Test site: RF Site	Temperature : 25.2℃

Cable loss: 1 dB		Attenuator loss: 20 dB				Antenna Gain: 3 dBi	
Test Mode	CH	Frequency (MHz)	Peak Output Power (dBm)	Output Power (mW)	Antenna Gain (dBi)	Antenna Gain (Linear)	MPE
11b	CH1	2412	17.84	60.81	3	2.00	0.0242
	CH6	2437	19.21	83.37	3	2.00	0.0331
	CH11	2462	20.6	114.82	3	2.00	0.0456
11g	CH1	2412	20.59	114.55	3	2.00	0.0455
	CH6	2437	21.05	127.35	3	2.00	0.0506
	CH11	2462	20.35	108.39	3	2.00	0.0430
11n HT20	CH1	2412	20.99	125.60	3	2.00	0.0499
	CH6	2437	23.37	217.27	3	2.00	0.0863
	CH11	2462	21.75	149.62	3	2.00	0.0594
11n HT40	CH1	2412	17.65	58.21	3	2.00	0.0231
	CH4	2437	23.21	209.41	3	2.00	0.0832
	CH7	2462	18.72	74.47	3	2.00	0.0296

Note: The estimation distance is 20cm

12.DEVIATION TO TEST SPECIFICATIONS

[NONE]