A.3 Conducted Spurious Emissions

Test Data

SISO ANT0

802.11b Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-46.87	9.03	-10.97	Pass
6	-46.06	8.74	-11.26	Pass
11	-47.06	8.5	-11.5	Pass

802.11g Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-46.55	6.65	-13.35	Pass
6	-46.62	6.43	-13.57	Pass
11	-46.36	6.67	-13.33	Pass

802.11n-20MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-45.43	7.59	-12.41	Pass
6	-47.02	7.34	-12.66	Pass
11	-47.25	6.47	-13.53	Pass

802.11n-40MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
3	-46.85	4.49	-15.51	Pass
6	-48.38	4.34	-15.66	Pass
9	-47.66	3.79	-16.21	Pass

SISO ANT1

802.11b Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-46.88	9.08	-10.92	Pass
6	-46.20	8.27	-11.73	Pass
11	-48.26	7.76	-12.24	Pass

802.11g Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-48.02	7.25	-12.75	Pass
6	-47.23	6.49	-13.51	Pass
11	-47.38	5.89	-14.11	Pass

802.11n-20MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-45.90	6.85	-13.15	Pass
6	-44.86	6.82	-13.18	Pass
11	-47.71	6.44	-13.56	Pass

802.11n-40MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
3	-47.47	4.44	-15.56	Pass
6	-47.48	3.93	-16.07	Pass
9	-45.40	3.38	-16.62	Pass

MIMO ANT0

802.11n-20MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-46.24	5.20	-14.80	Pass
6	-46.87	5.06	-14.94	Pass
11	-47.62	4.74	-15.26	Pass

802.11n-40MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
3	-48.27	-2.14	-22.14	Pass
6	-47.87	-1.60	-21.60	Pass
9	-48.36	-2.29	-22.29	Pass

MIMO ANT1

802.11n-20MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-46.40	3.35	-20.33	Pass
6	-47.18	2.37	-17.89	Pass
11	-46.68	2.39	-20.23	Pass

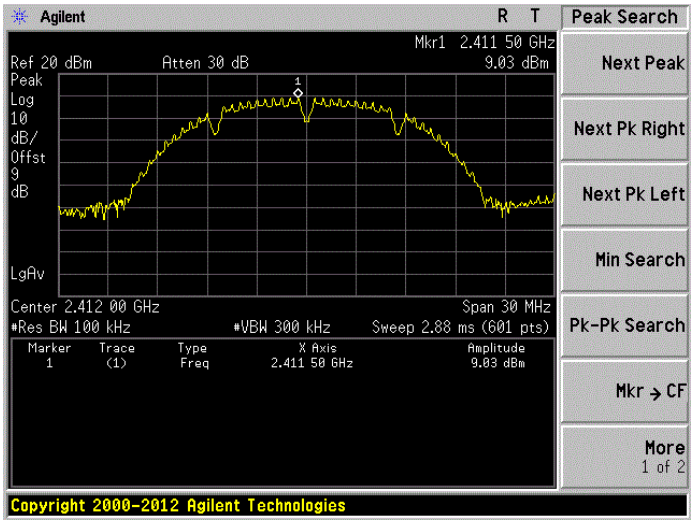
802.11n-40MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
3	-47.13	-3.25	-26.88	Pass
6	-46.79	-3.77	-22.61	Pass
9	-45.70	-4.26	-26.55	Pass

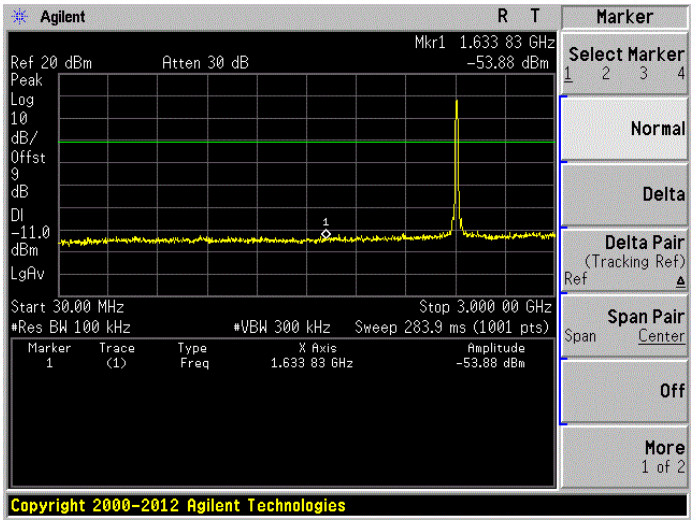
Test Plots

SISO ANT0

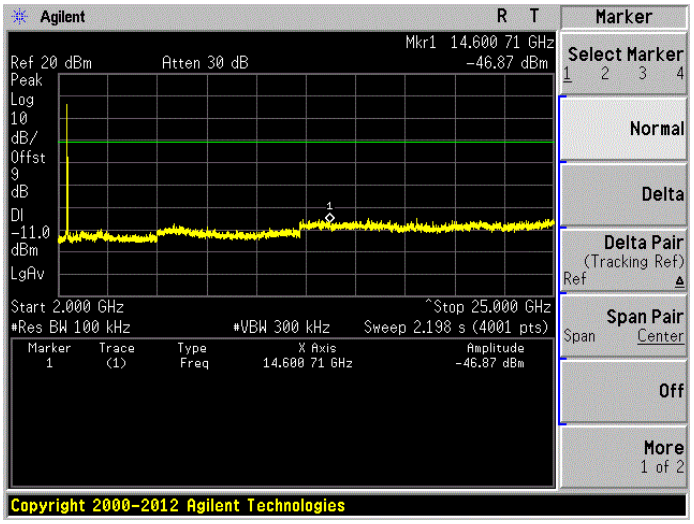
802.11b CHANNEL 1 CARRIER LEVEL



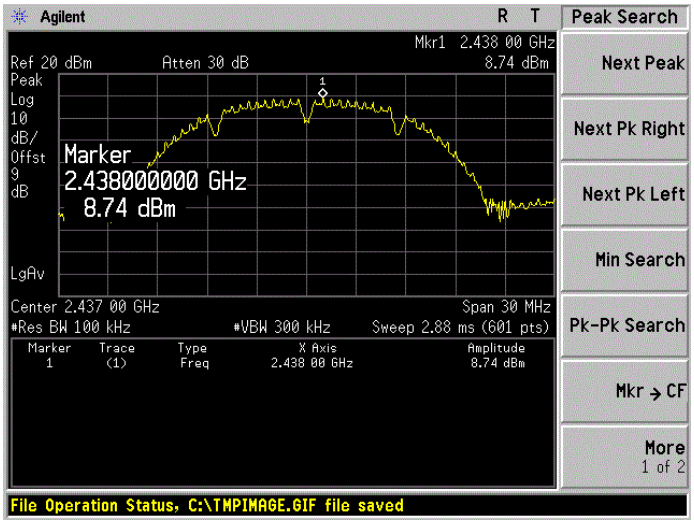
802.11b CHANNEL 1, SPURIOUS 30 MHz ~ 3 GHz



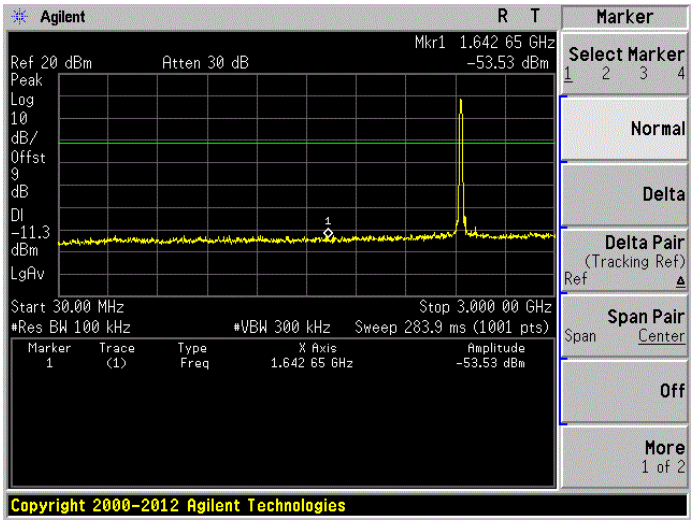
802.11b CHANNEL 1, SPURIOUS 2 GHz ~ 25 GHz



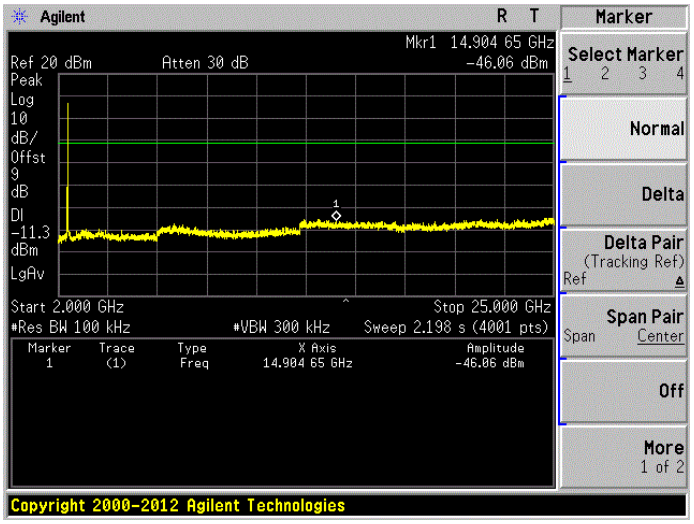
802.11b CHANNEL 6 CARRIER LEVEL



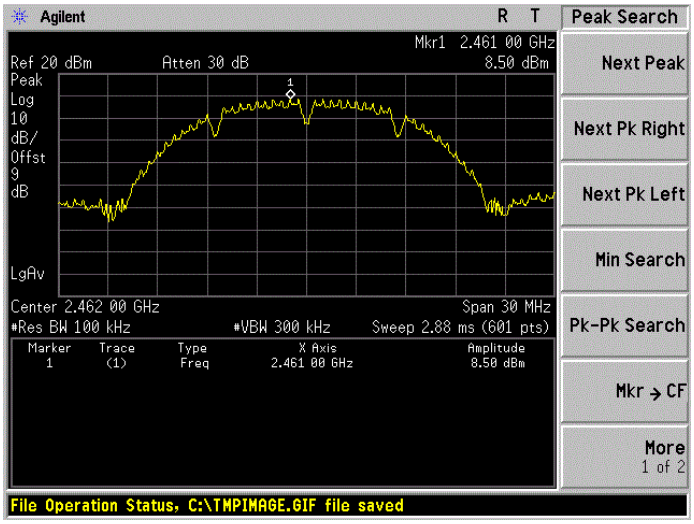
802.11b CHANNEL 6, SPURIOUS 30 MHz ~ 3 GHz



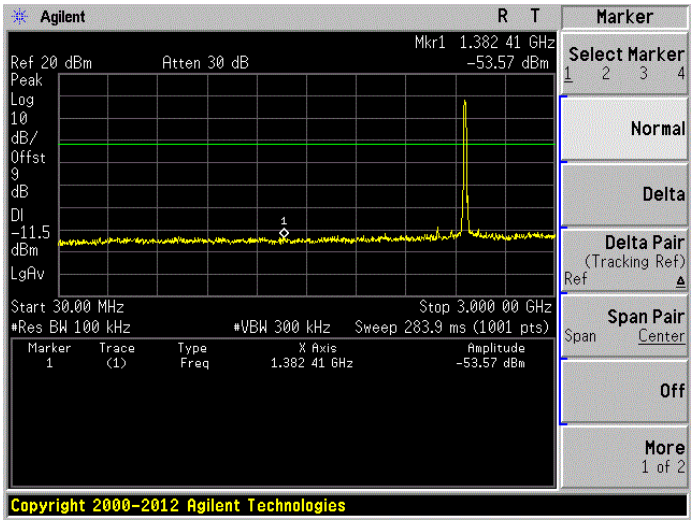
802.11b CHANNEL 6, SPURIOUS 2 GHz ~ 25 GHz



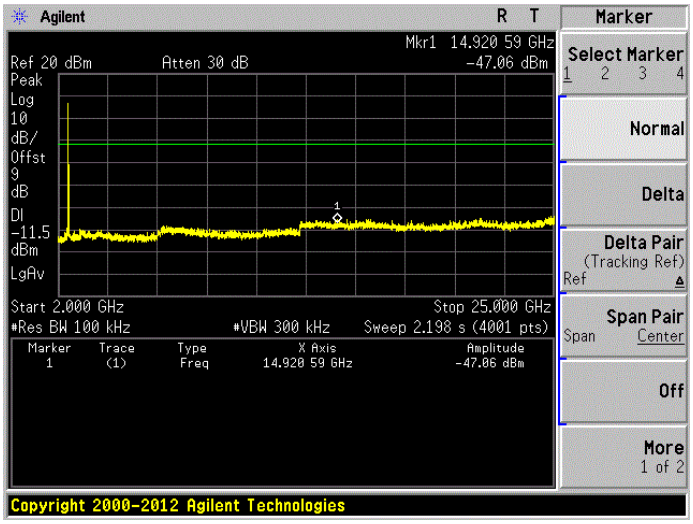
802.11b CHANNEL 11 CARRIER LEVEL



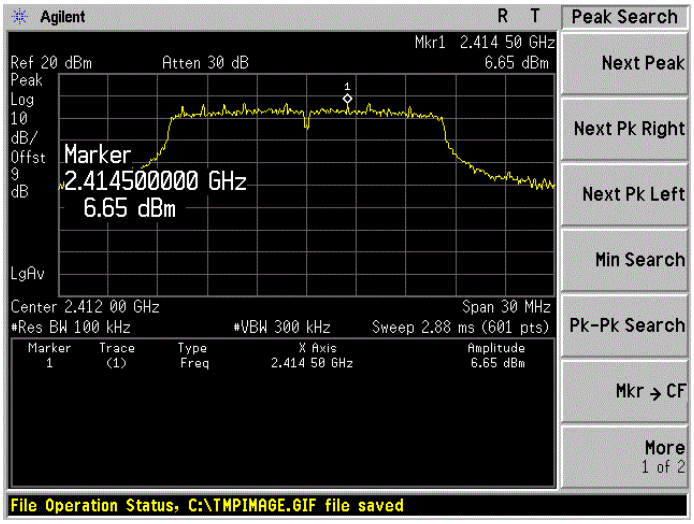
802.11b CHANNEL 11, SPURIOUS 30 MHz ~ 3 GHz



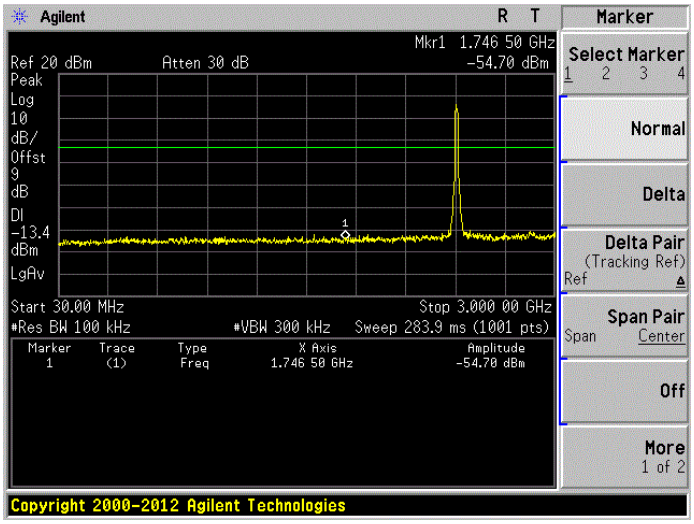
802.11b CHANNEL 11, SPURIOUS 2 GHz ~ 25 GHz



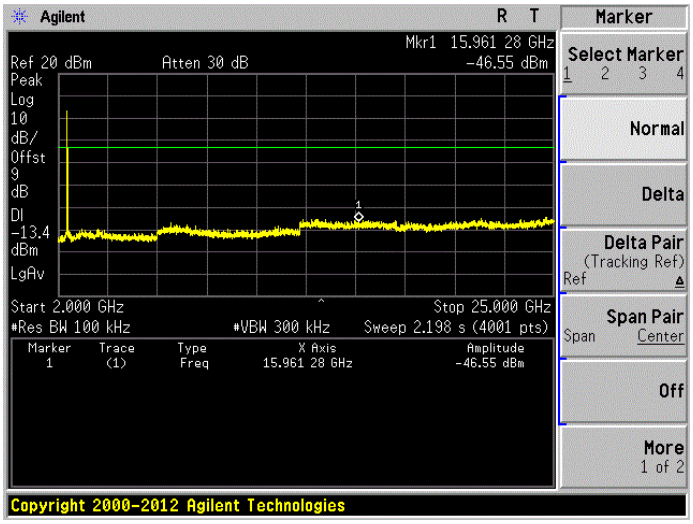
802.11g CHANNEL 1 CARRIER LEVEL



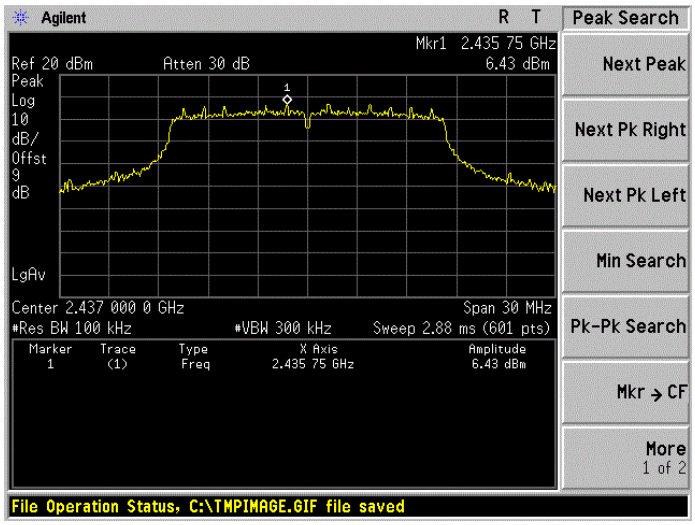
802.11g CHANNEL 1, SPURIOUS 30 MHz ~ 3 GHz



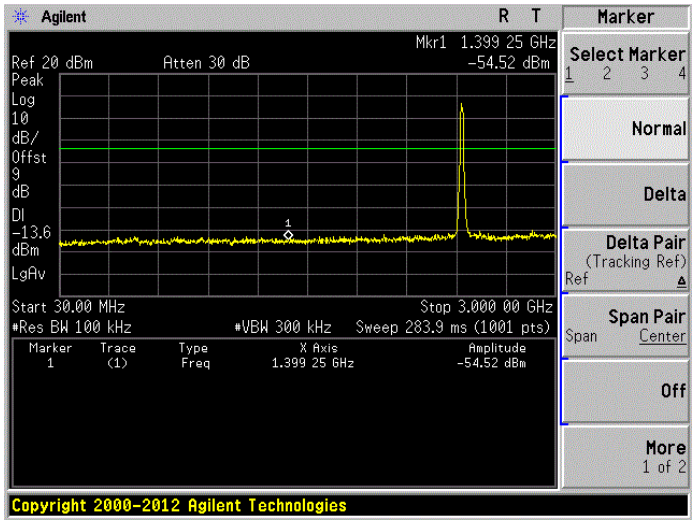
802.11g CHANNEL 1, SPURIOUS 2 GHz ~ 25 GHz



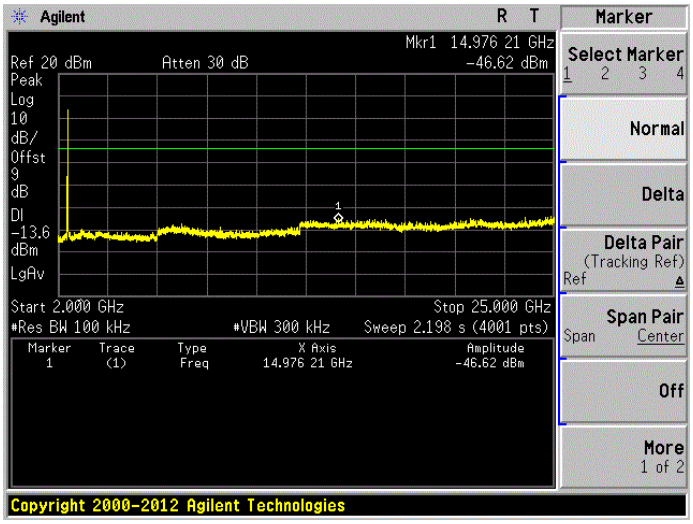
802.11g CHANNEL 6 CARRIER LEVEL



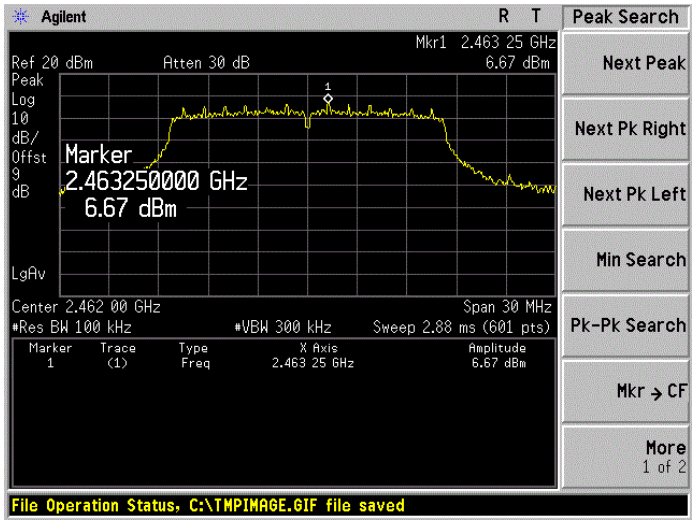
802.11g CHANNEL 6, SPURIOUS 30 MHz ~ 3 GHz



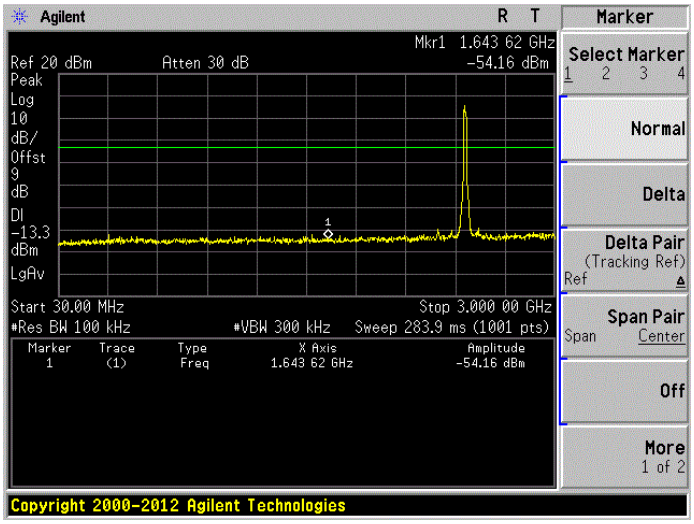
802.11g CHANNEL 6, SPURIOUS 2 GHz ~ 25 GHz



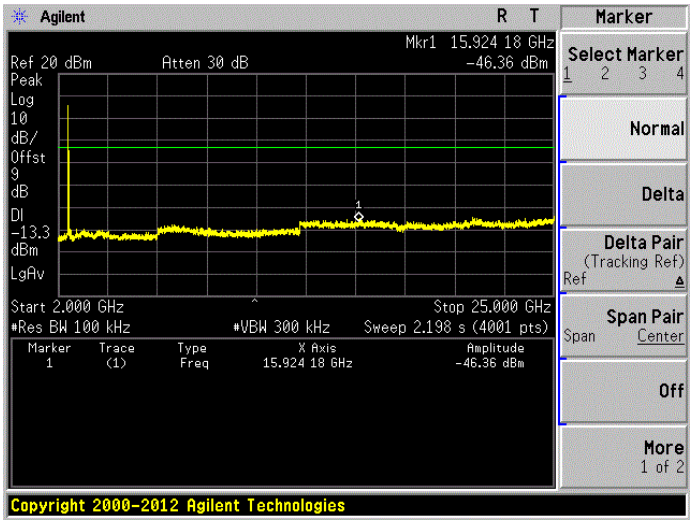
802.11g CHANNEL 11 CARRIER LEVEL



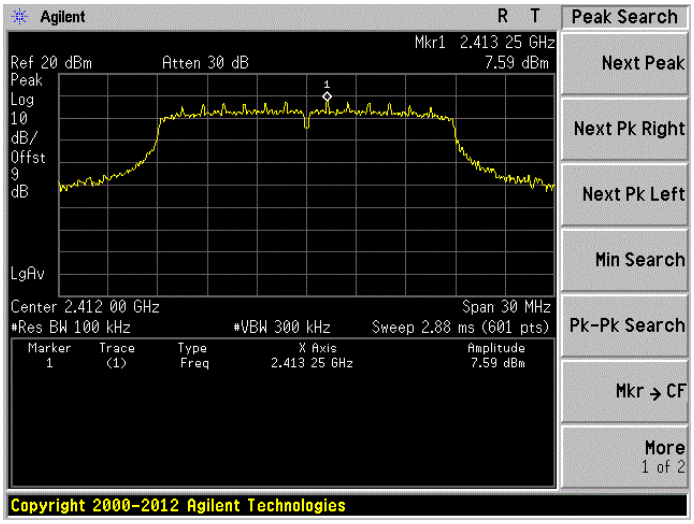
802.11g CHANNEL 11, SPURIOUS 30 MHz ~ 3 GHz



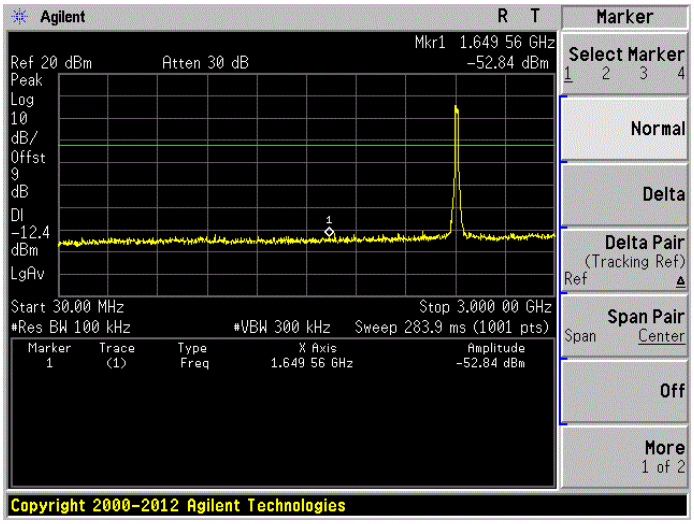
802.11g CHANNEL 11, SPURIOUS 2 GHz ~ 25 GHz



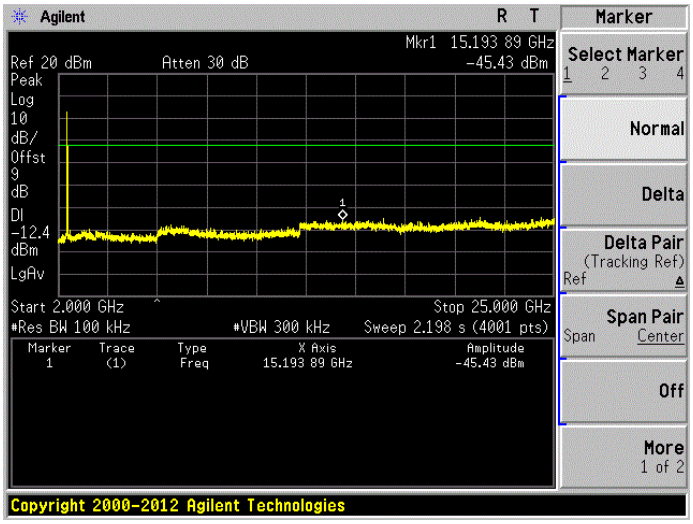
802.11n-20 CHANNEL 1 CARRIER LEVEL



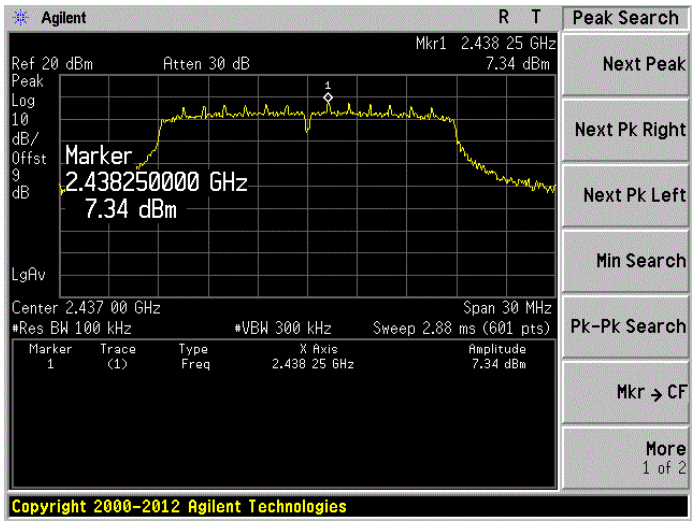
802.11n-20 CHANNEL 1, SPURIOUS 30 MHz ~ 3 GHz



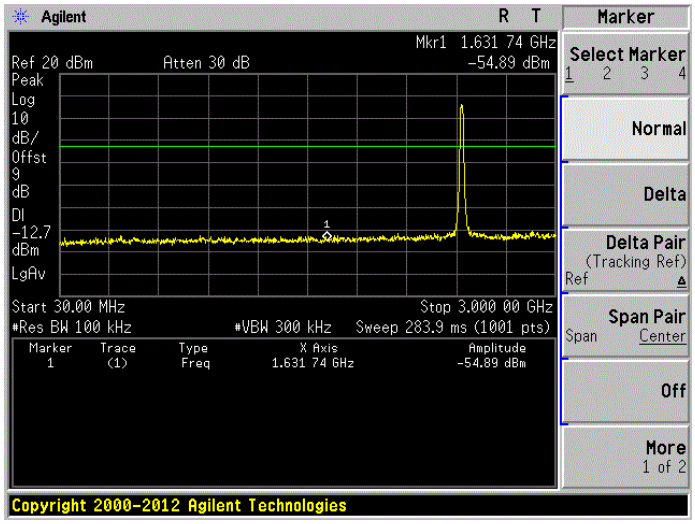
802.11n-20 CHANNEL 1, SPURIOUS 2 GHz ~ 25 GHz



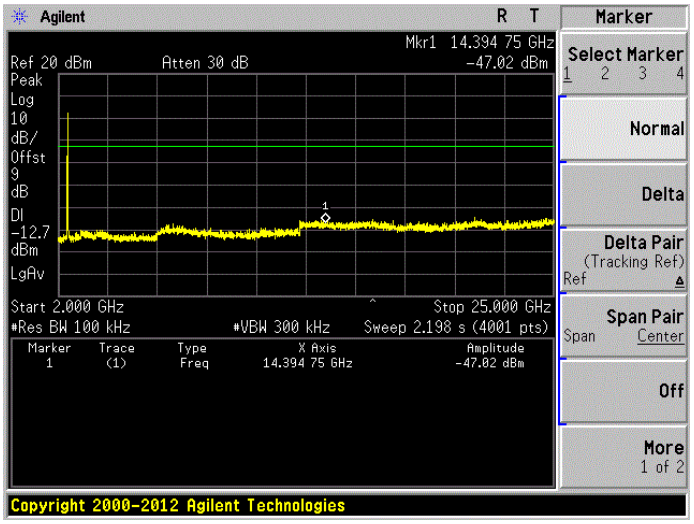
802.11n-20 CHANNEL 6 CARRIER LEVEL



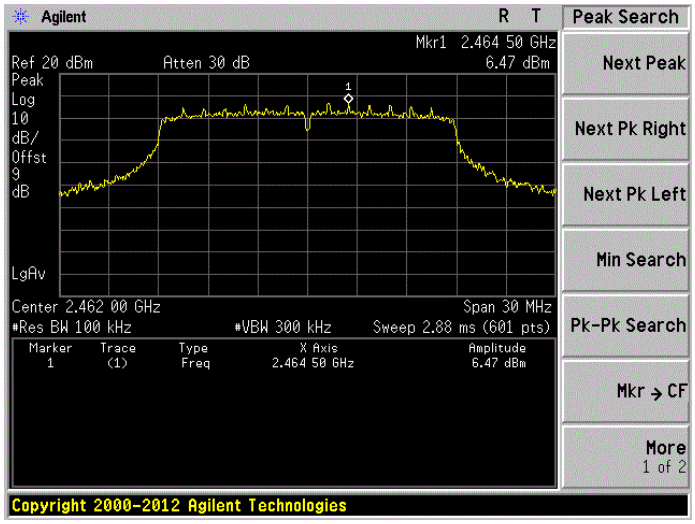
802.11n-20 CHANNEL 6, SPURIOUS 30 MHz ~ 3 GHz



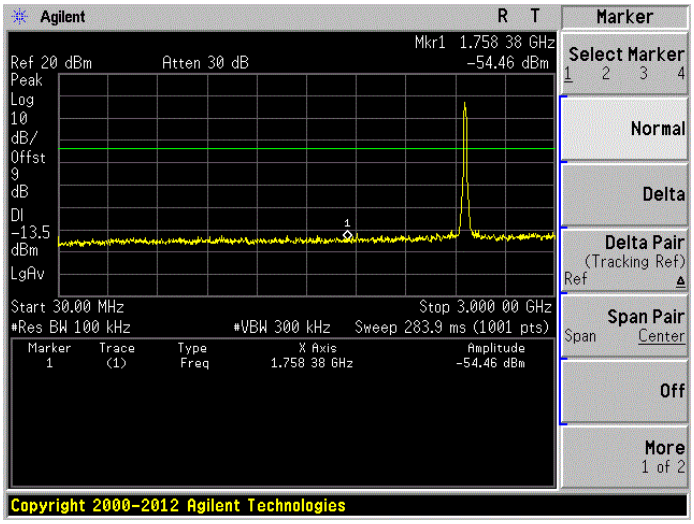
802.11n-20 CHANNEL 6, SPURIOUS 2 GHz ~ 25 GHz



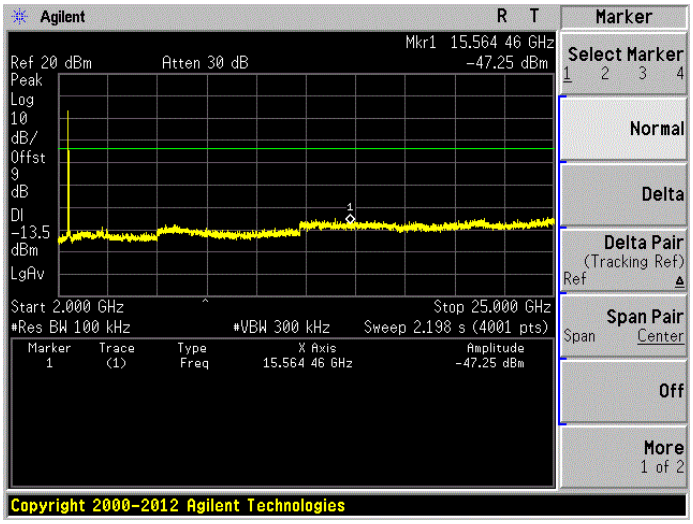
802.11n-20 CHANNEL 11 CARRIER LEVEL



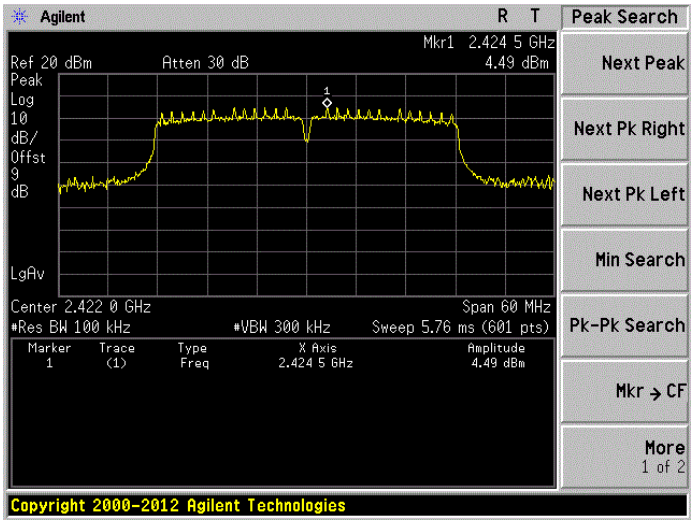
802.11n-20 CHANNEL 11, SPURIOUS
30 MHz ~ 3 GHz



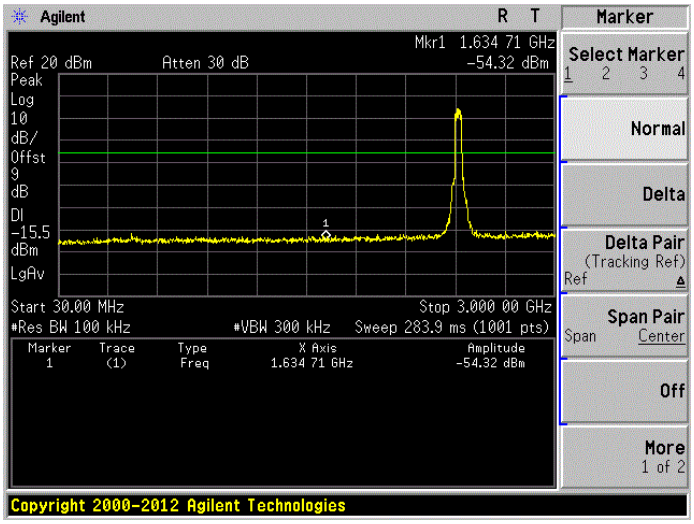
802.11n-20 CHANNEL 11, SPURIOUS
2 GHz ~ 25 GHz



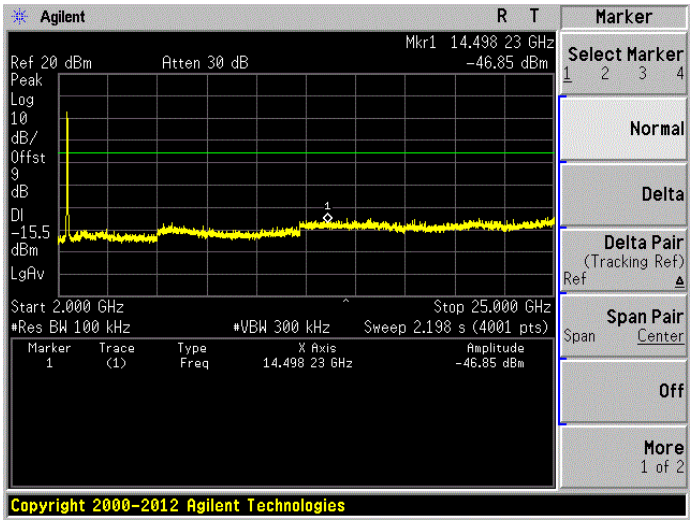
802.11n-40 CHANNEL 3 CARRIER LEVEL



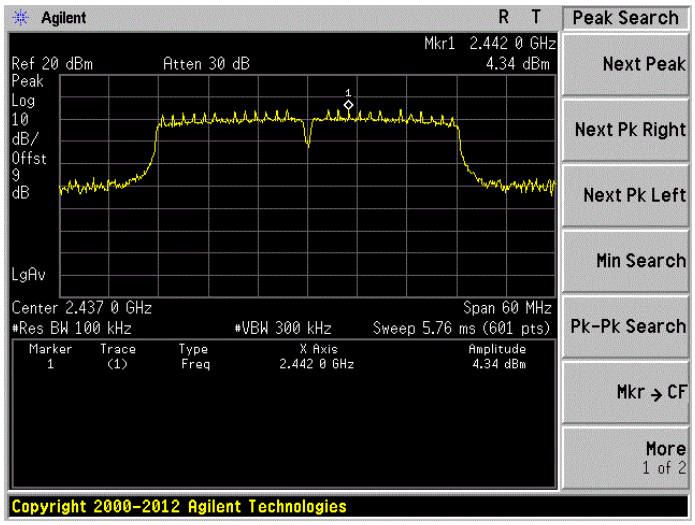
802.11n-40 CHANNEL 3, SPURIOUS 30 MHz ~ 3 GHz



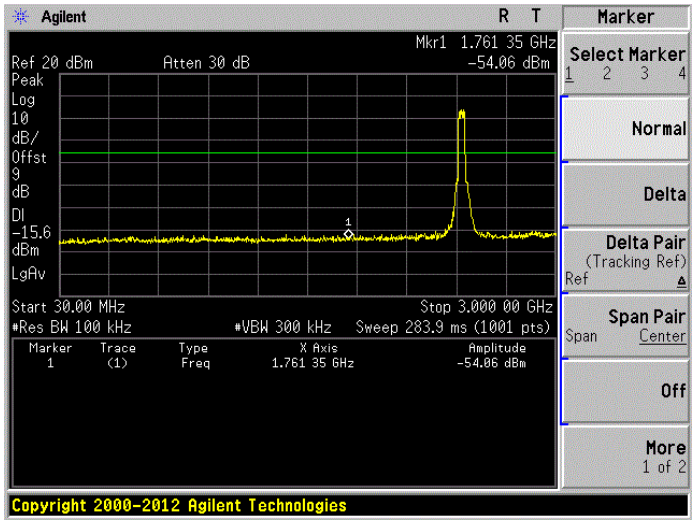
802.11n-40 CHANNEL 3, SPURIOUS 2 GHz ~ 25 GHz



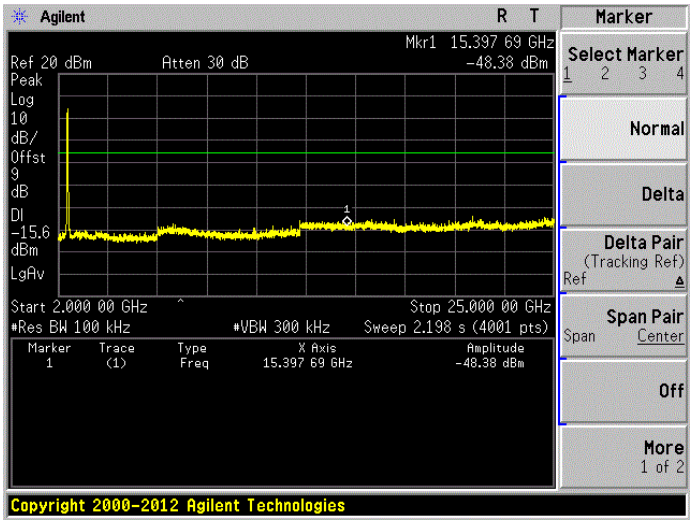
802.11n-40 CHANNEL 6 CARRIER LEVEL



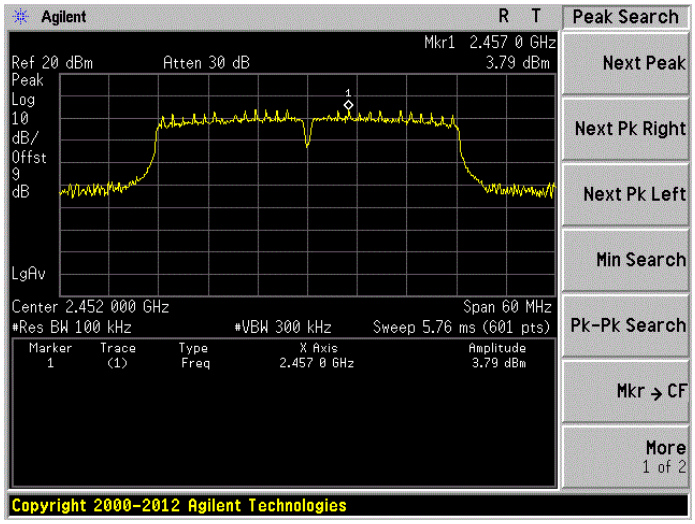
802.11n-40 CHANNEL 6, SPURIOUS 30 MHz ~ 3 GHz



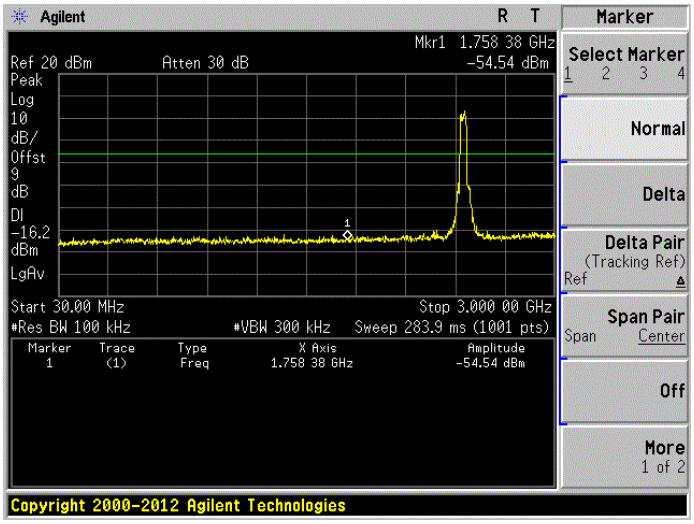
802.11n-40 CHANNEL 6, SPURIOUS 2 GHz ~ 25 GHz



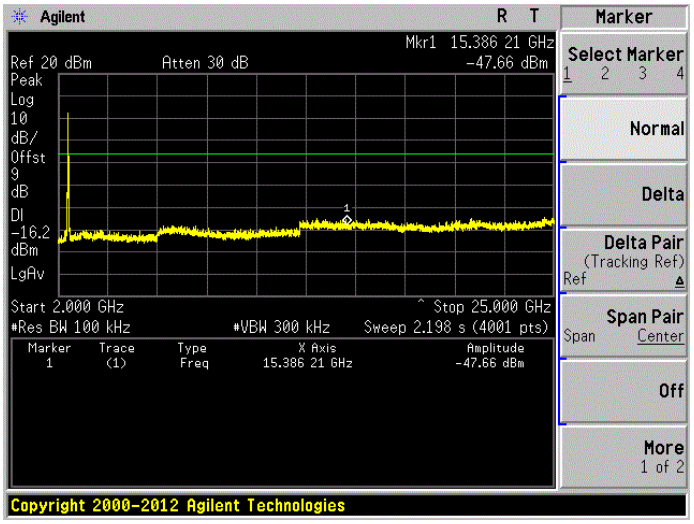
802.11n-40 CHANNEL 9 CARRIER LEVEL



802.11n-40 CHANNEL 9, SPURIOUS
30 MHz ~ 3 GHz

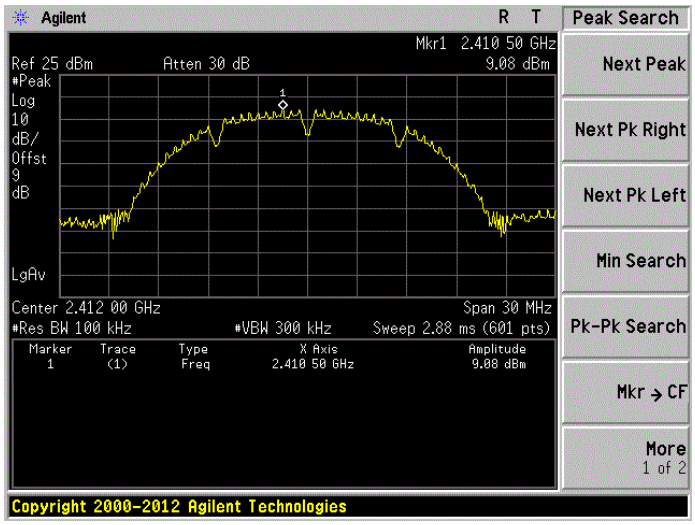


802.11n-40 CHANNEL 9, SPURIOUS
2 GHz ~ 25 GHz

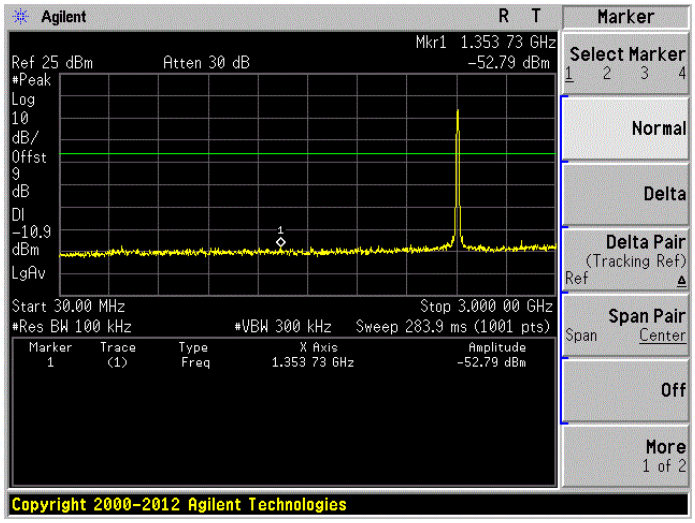


SISO ANT1

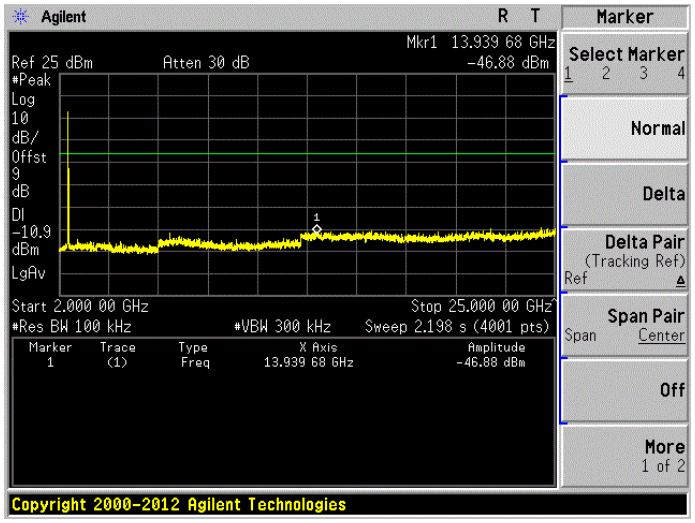
802.11b CHANNEL 1 CARRIER LEVEL



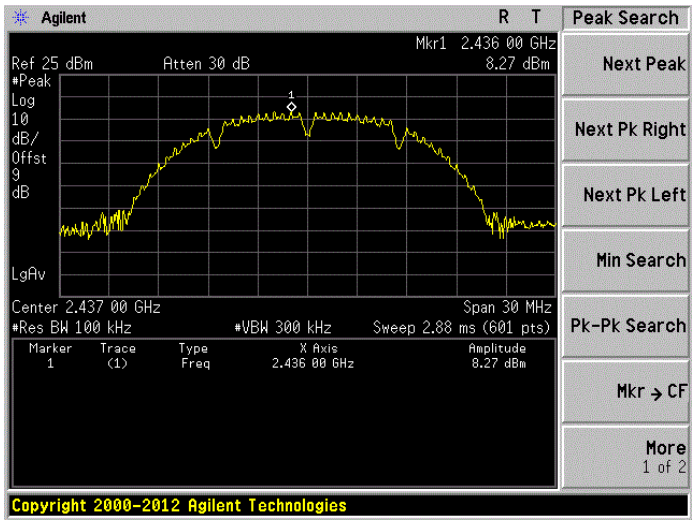
802.11b CHANNEL 1, SPURIOUS 30 MHz ~ 3 GHz



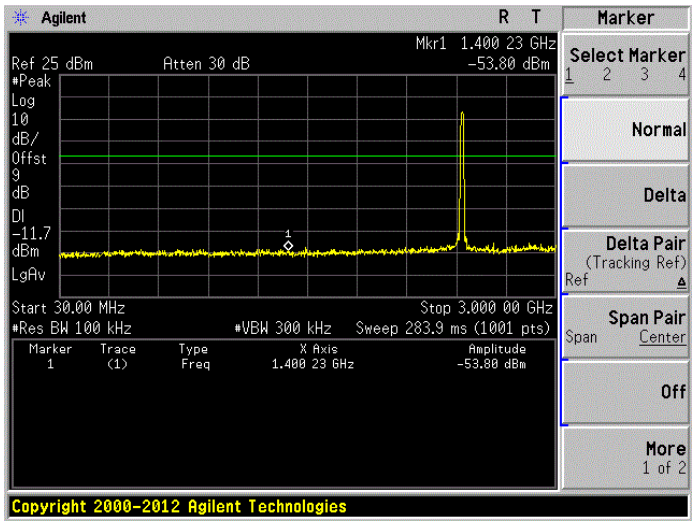
802.11b CHANNEL 1, SPURIOUS 2 GHz ~ 25 GHz



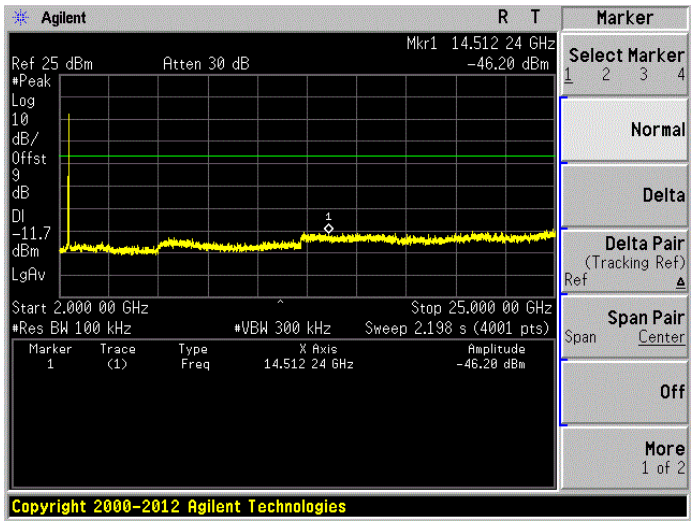
802.11b CHANNEL 6 CARRIER LEVEL



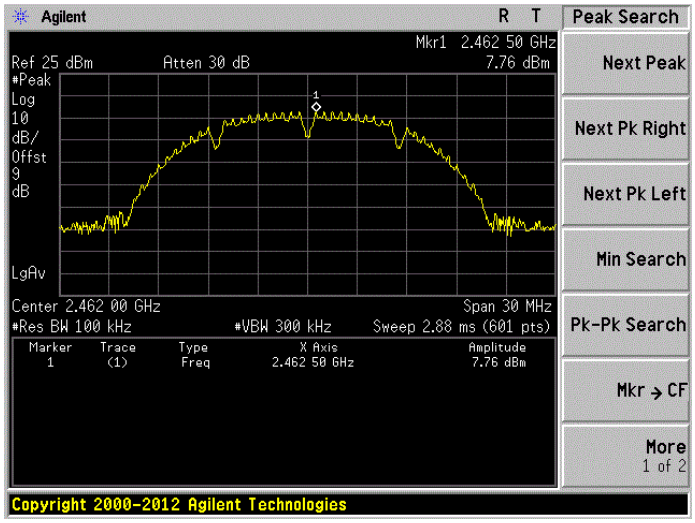
802.11b CHANNEL 6, SPURIOUS 30 MHz ~ 3 GHz



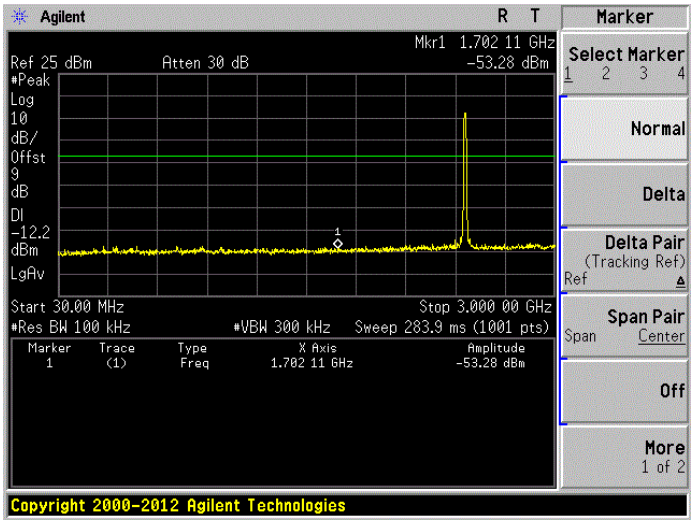
802.11b CHANNEL 6, SPURIOUS 2 GHz ~ 25 GHz



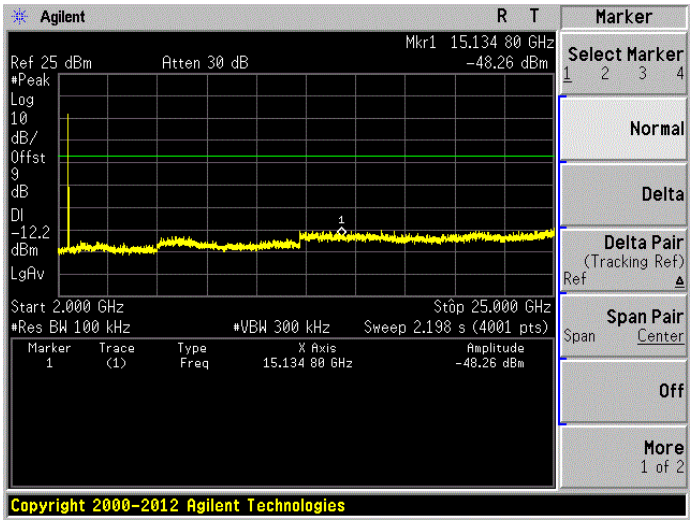
802.11b CHANNEL 11 CARRIER LEVEL



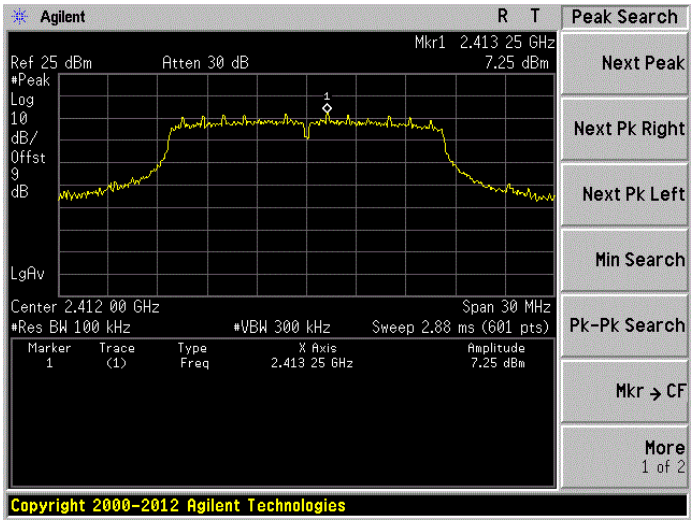
802.11b CHANNEL 11, SPURIOUS 30 MHz ~ 3 GHz



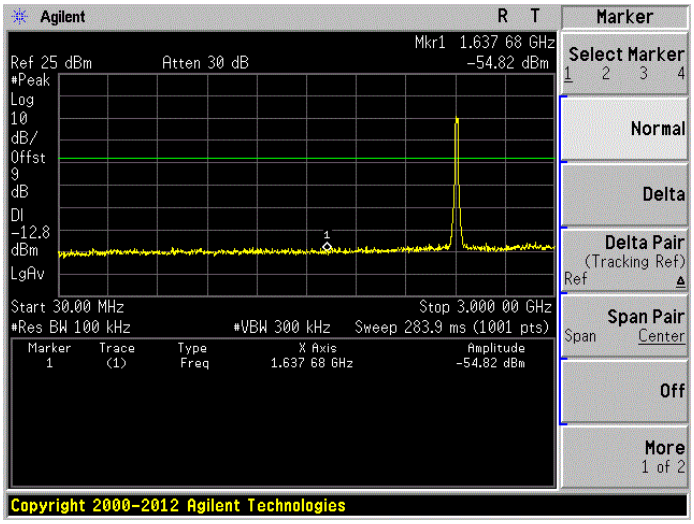
802.11b CHANNEL 11, SPURIOUS 2 GHz ~ 25 GHz



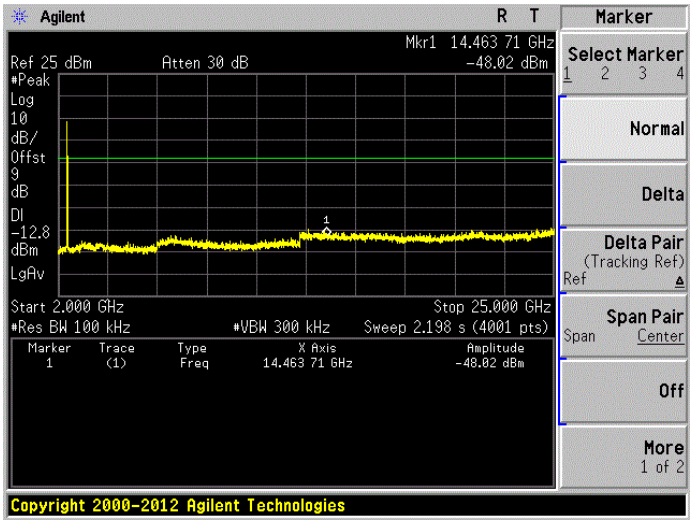
802.11g CHANNEL 1 CARRIER LEVEL



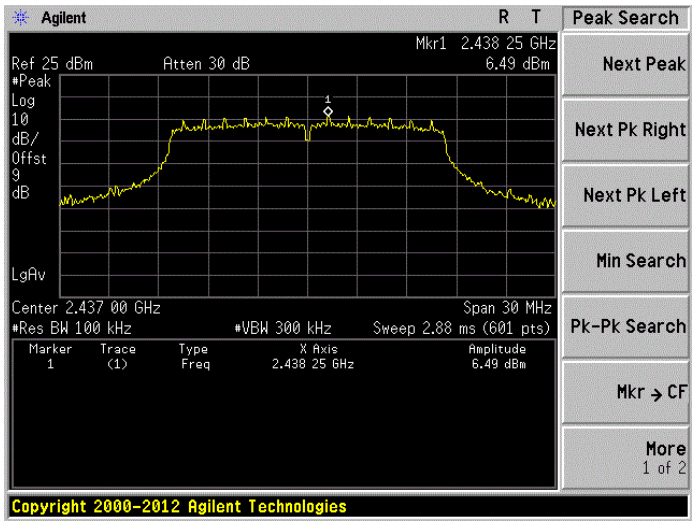
802.11g CHANNEL 1, SPURIOUS 30 MHz ~ 3 GHz



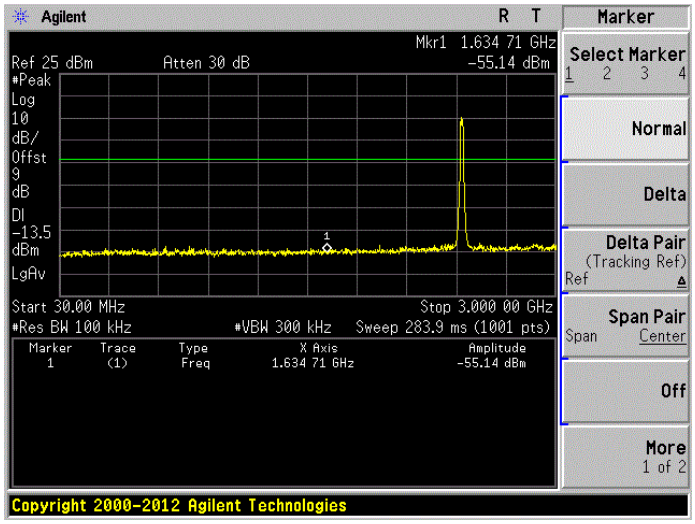
802.11g CHANNEL 1, SPURIOUS 2 GHz ~ 25 GHz



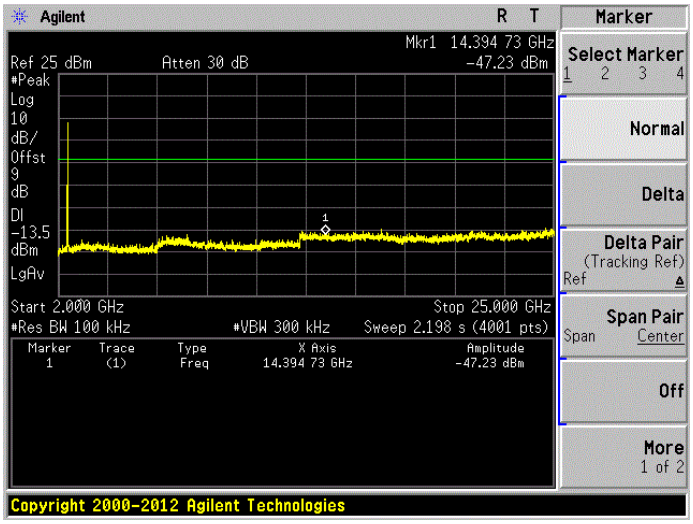
802.11g CHANNEL 6 CARRIER LEVEL



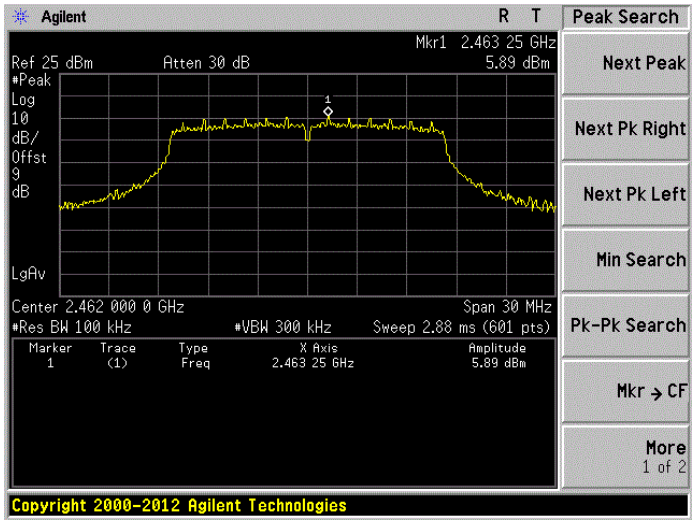
802.11g CHANNEL 6, SPURIOUS 30 MHz ~ 3 GHz



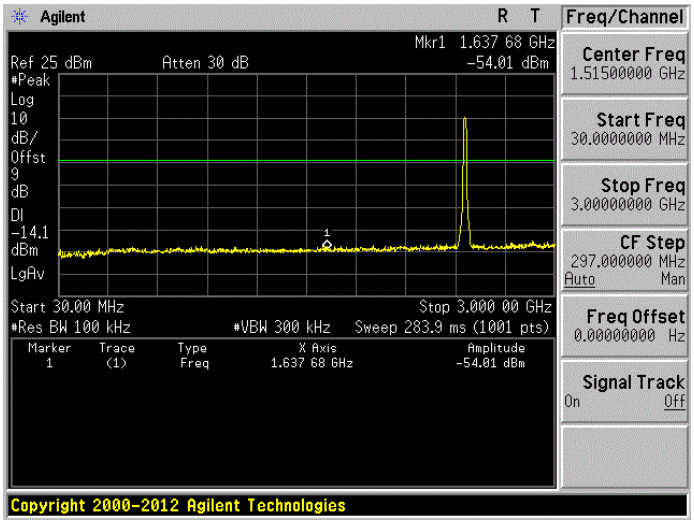
802.11g CHANNEL 6, SPURIOUS 2 GHz ~ 25 GHz



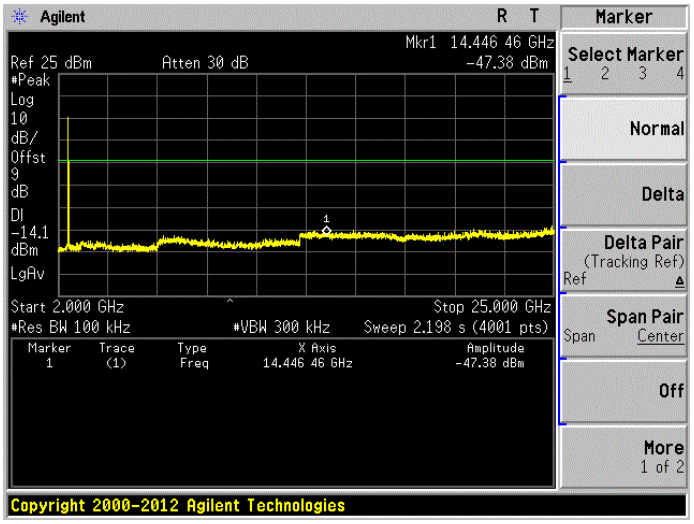
802.11g CHANNEL 11 CARRIER LEVEL



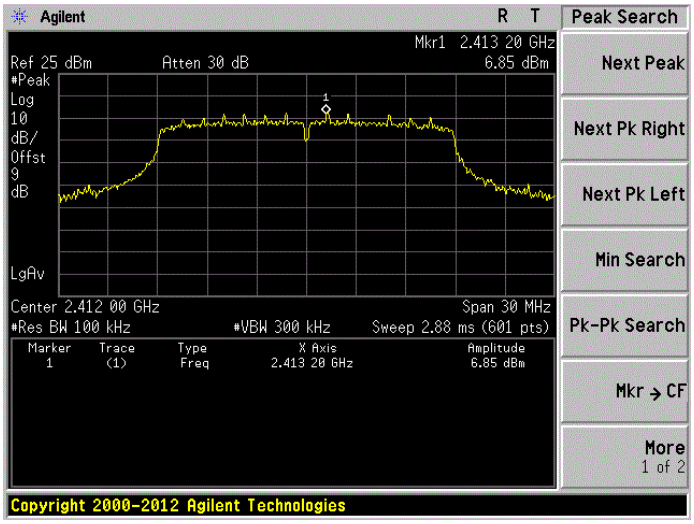
802.11g CHANNEL 11, SPURIOUS 30 MHz ~ 3 GHz



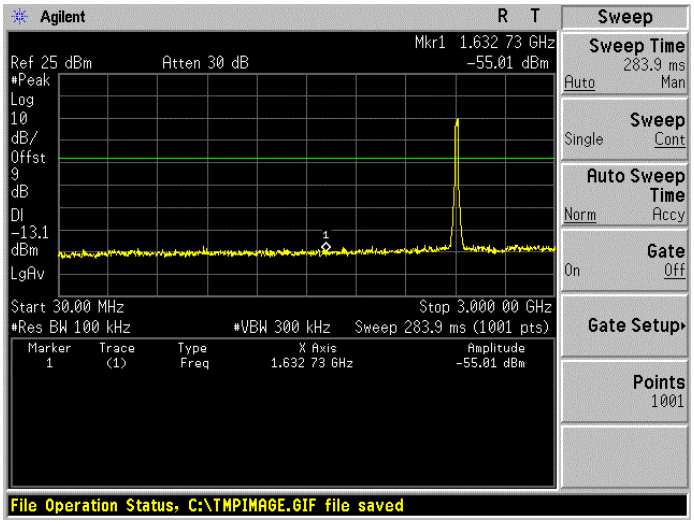
802.11g CHANNEL 11, SPURIOUS 2 GHz ~ 25 GHz



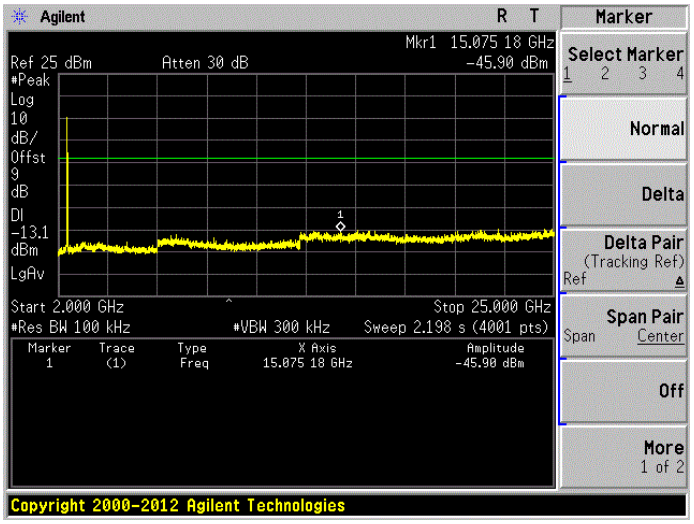
802.11n-20 CHANNEL 1 CARRIER LEVEL



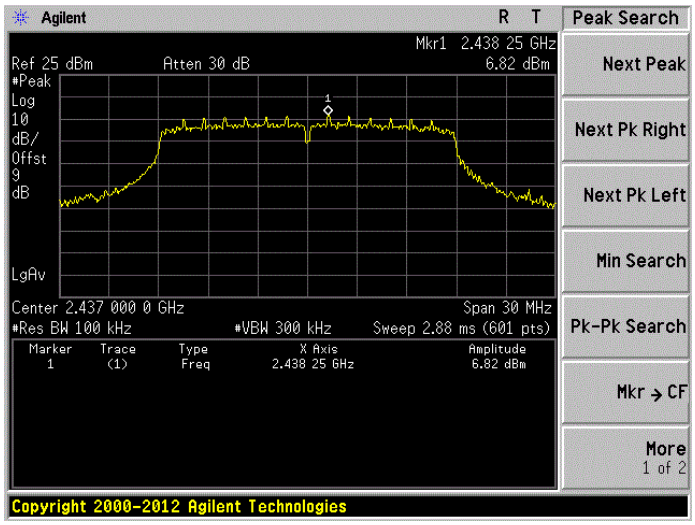
802.11n-20 CHANNEL 1, SPURIOUS 30 MHz ~ 3 GHz



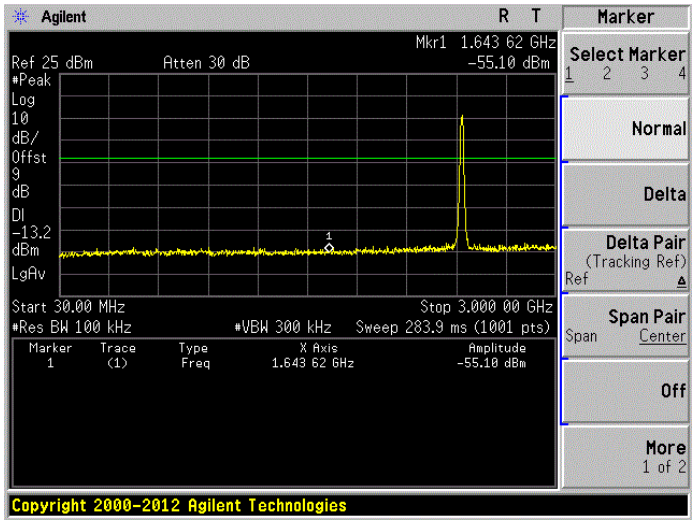
802.11n-20 CHANNEL 1, SPURIOUS 2 GHz ~ 25 GHz



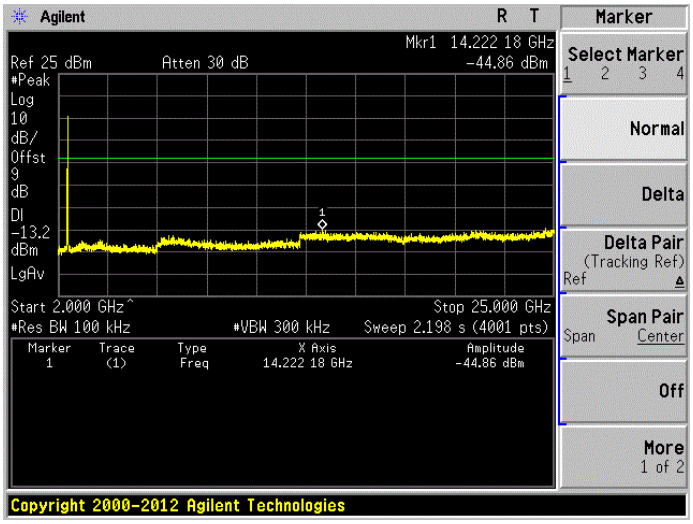
802.11n-20 CHANNEL 6 CARRIER LEVEL



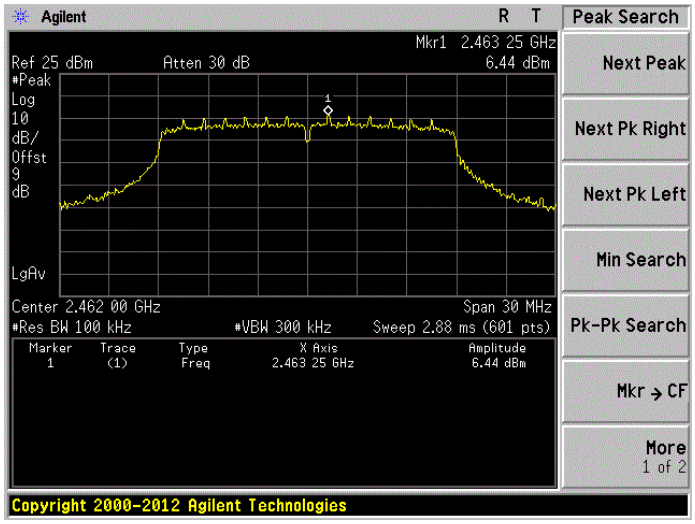
802.11n-20 CHANNEL 6, SPURIOUS 30 MHz ~ 3 GHz



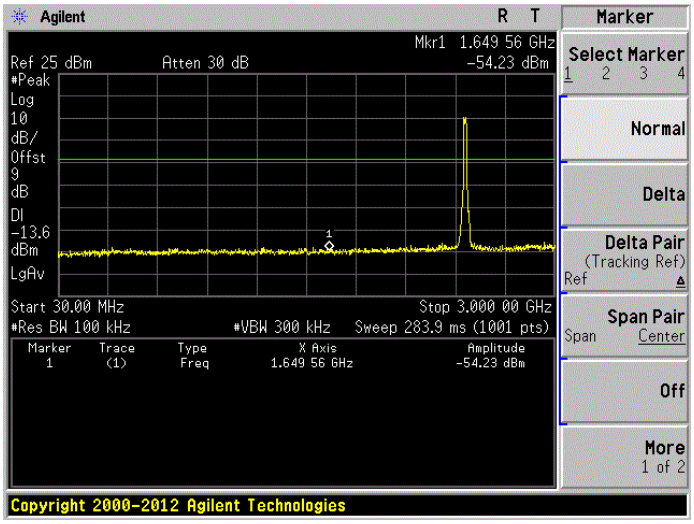
802.11n-20 CHANNEL 6, SPURIOUS 2 GHz ~ 25 GHz



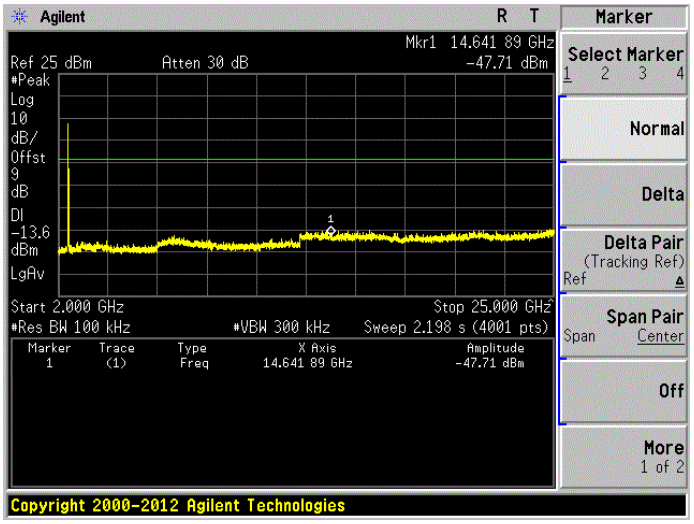
802.11n-20 CHANNEL 11 CARRIER LEVEL



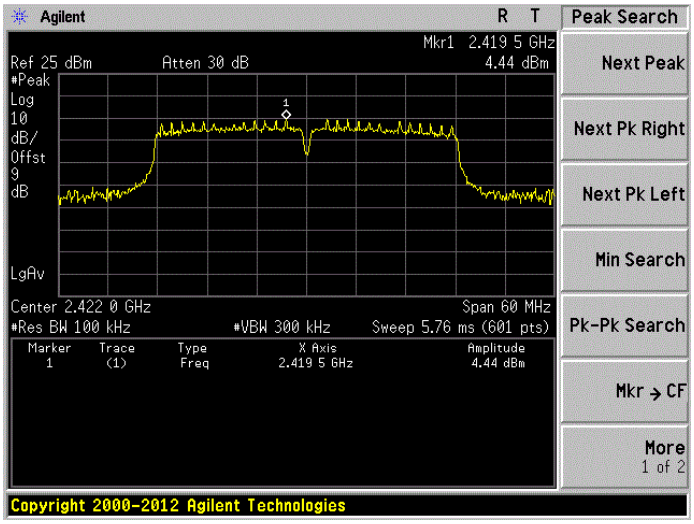
802.11n-20 CHANNEL 11, SPURIOUS 30 MHz ~ 3 GHz



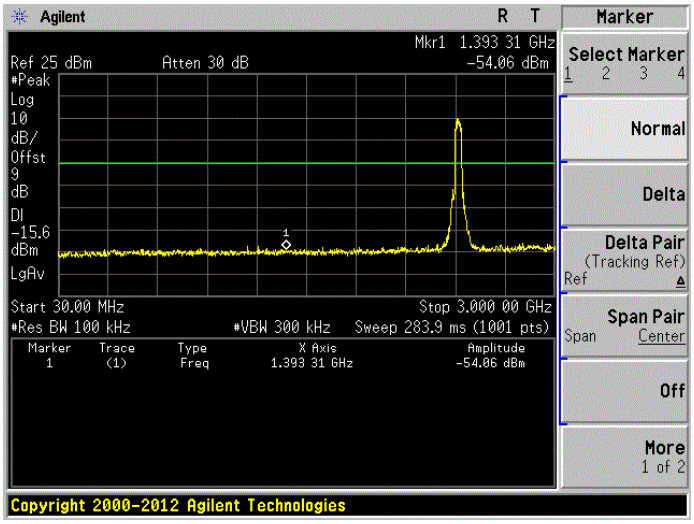
802.11n-20 CHANNEL 11, SPURIOUS 2 GHz ~ 25 GHz



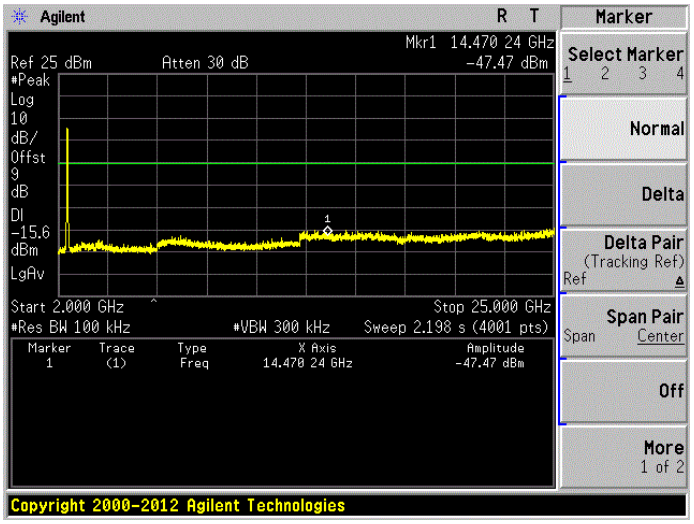
802.11n-40 CHANNEL 3 CARRIER LEVEL



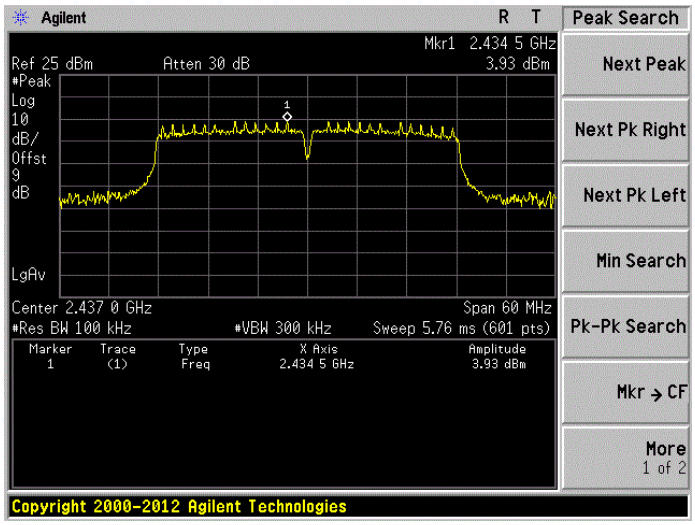
802.11n-40 CHANNEL 3, SPURIOUS 30 MHz ~ 3 GHz



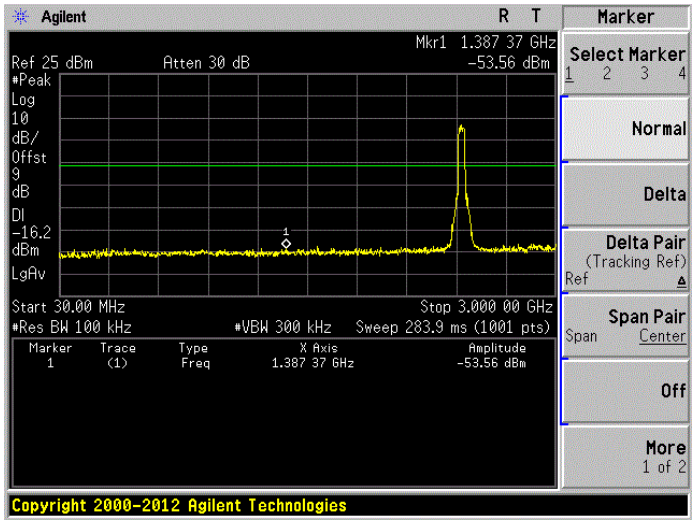
802.11n-40 CHANNEL 3, SPURIOUS 2 GHz ~ 25 GHz



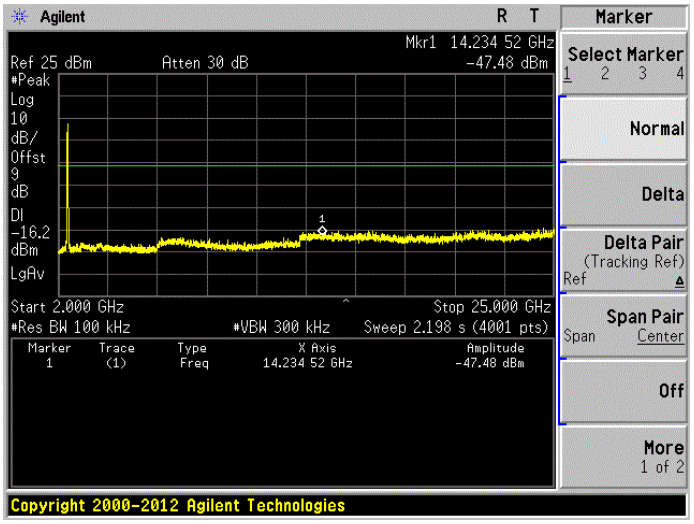
802.11n-40 CHANNEL 6 CARRIER LEVEL



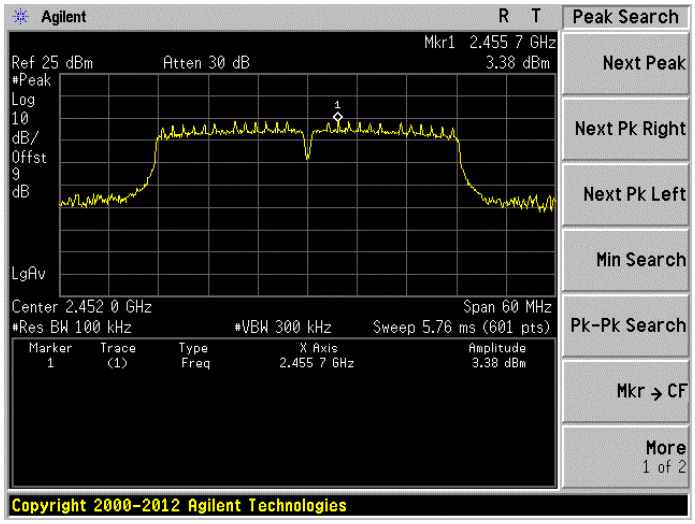
802.11n-40 CHANNEL 6, SPURIOUS 30 MHz ~ 3 GHz



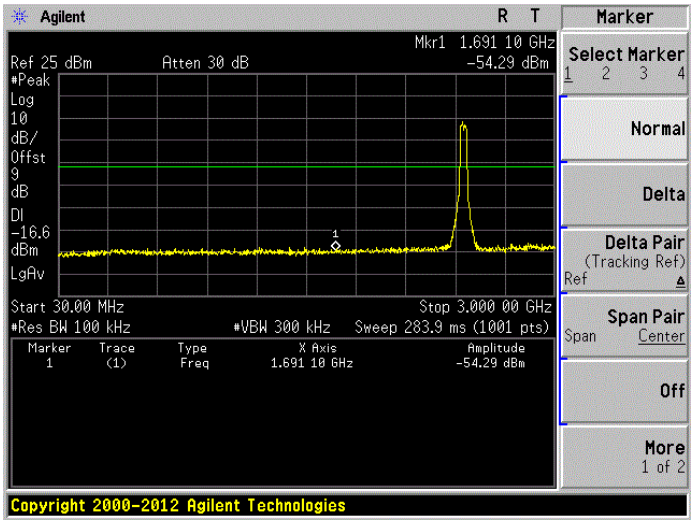
802.11n-40 CHANNEL 6, SPURIOUS 2 GHz ~ 25 GHz



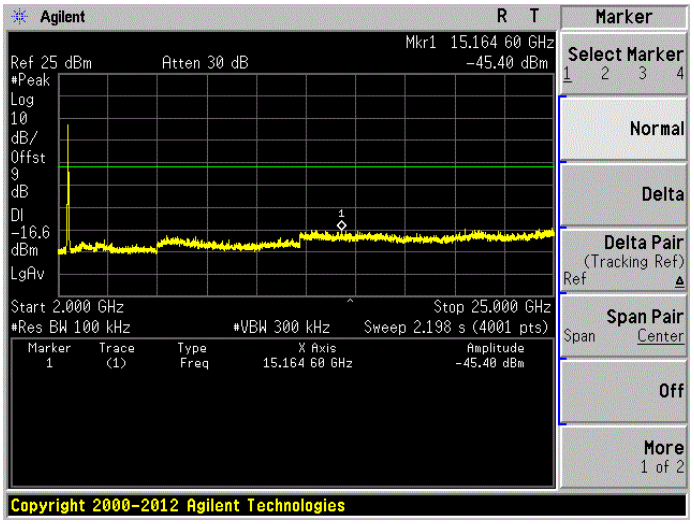
802.11n-40 CHANNEL 9 CARRIER LEVEL



802.11n-40 CHANNEL 9, SPURIOUS
30 MHz ~ 3 GHz

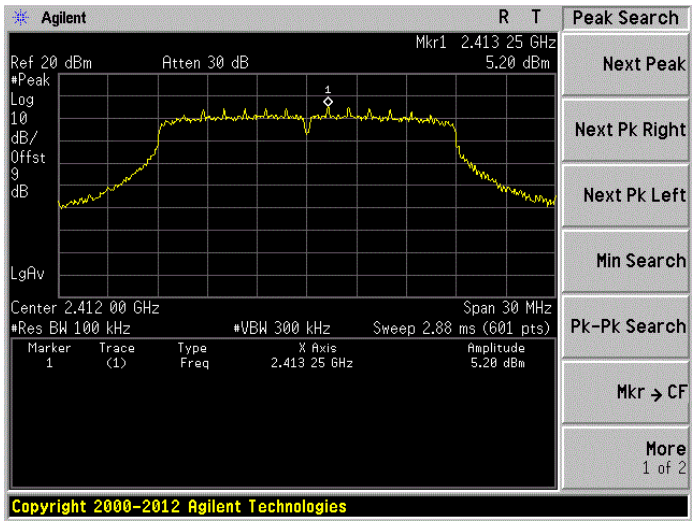


802.11n-40 CHANNEL 9, SPURIOUS
2 GHz ~ 25 GHz

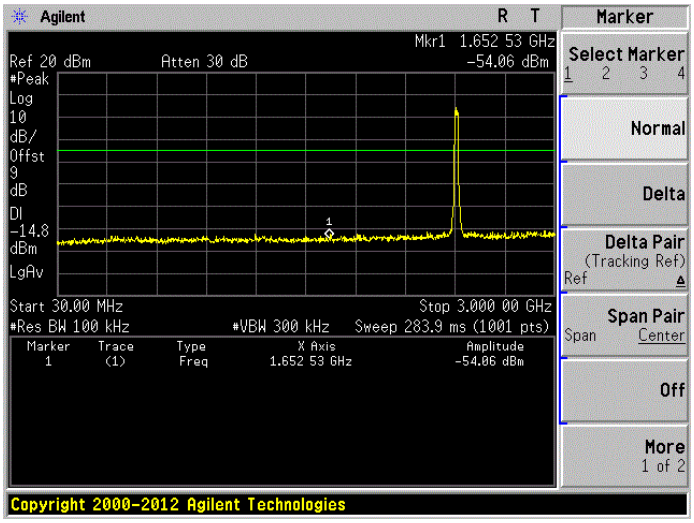


MIMO ANT0

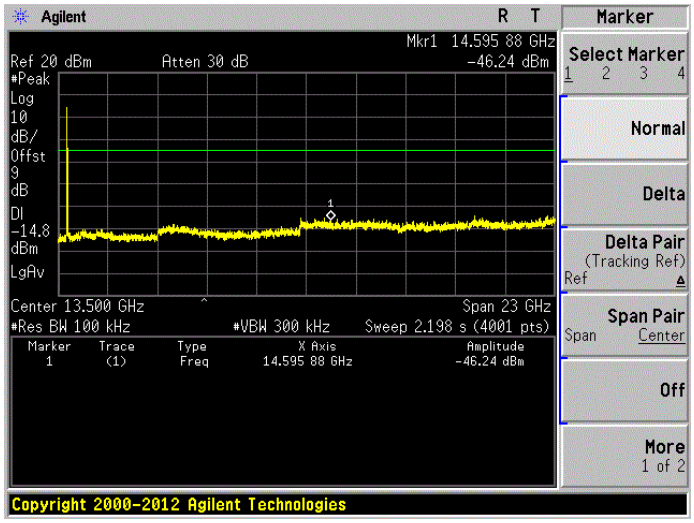
802.11n-20 CHANNEL 1 CARRIER LEVEL



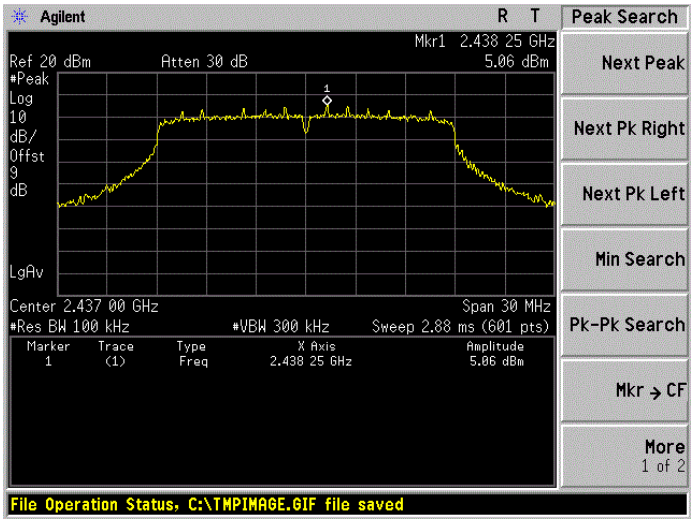
802.11n-20 CHANNEL 1, SPURIOUS 30 MHz ~ 3 GHz



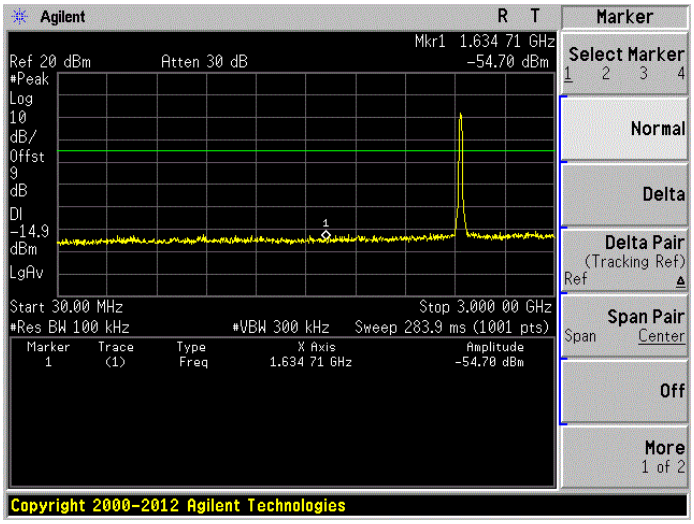
802.11n-20 CHANNEL 1, SPURIOUS 2 GHz ~ 25 GHz



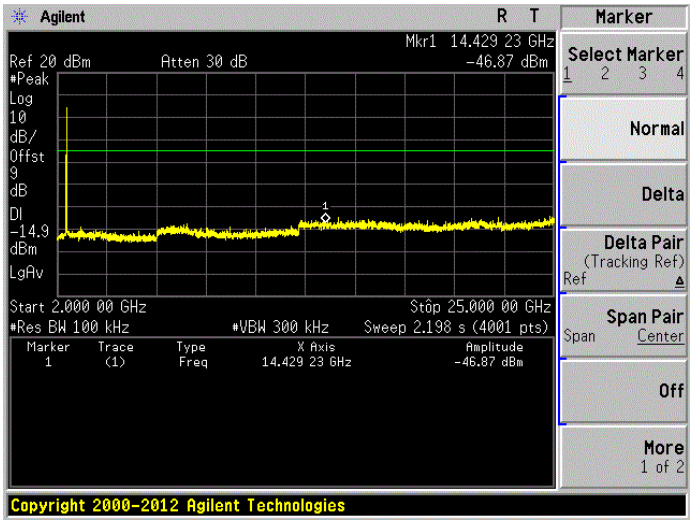
802.11n-20 CHANNEL 6 CARRIER LEVEL



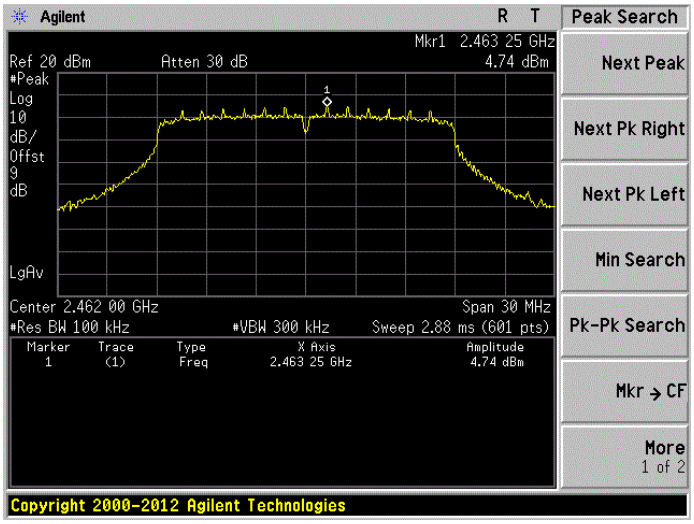
802.11n-20 CHANNEL 6, SPURIOUS 30 MHz ~ 3 GHz



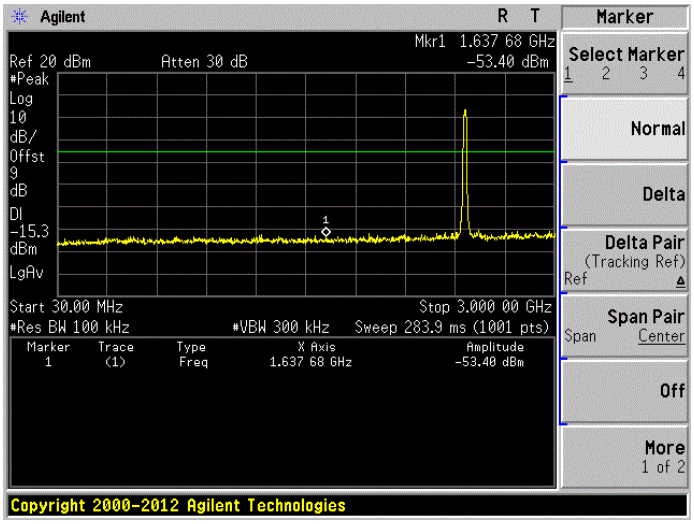
802.11n-20 CHANNEL 6, SPURIOUS 2 GHz ~ 25 GHz



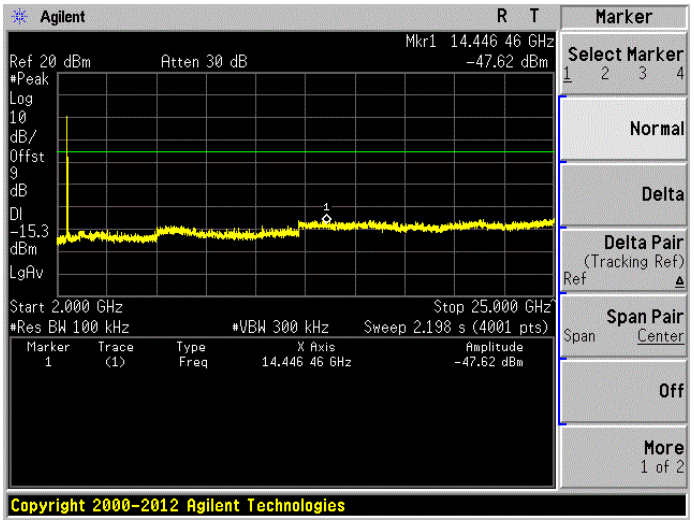
802.11n-20 CHANNEL 11 CARRIER LEVEL



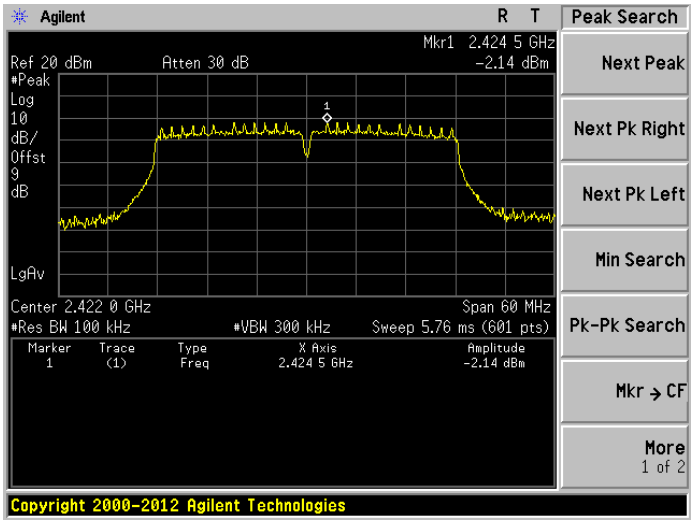
802.11n-20 CHANNEL 11, SPURIOUS
30 MHz ~ 3 GHz



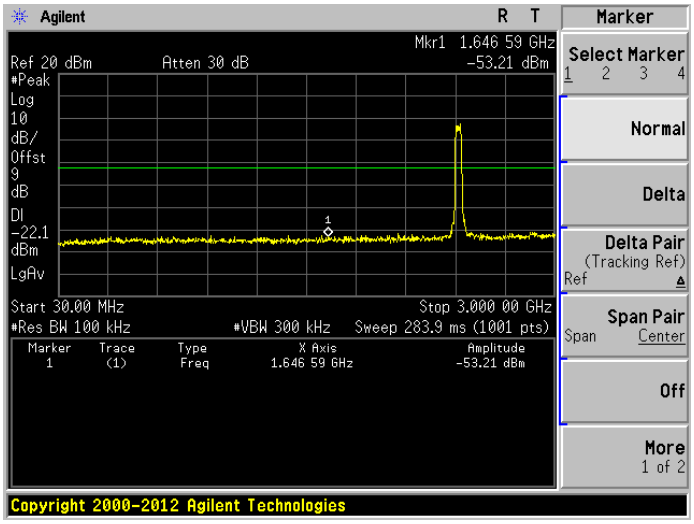
802.11n-20 CHANNEL 11, SPURIOUS
2 GHz ~ 25 GHz



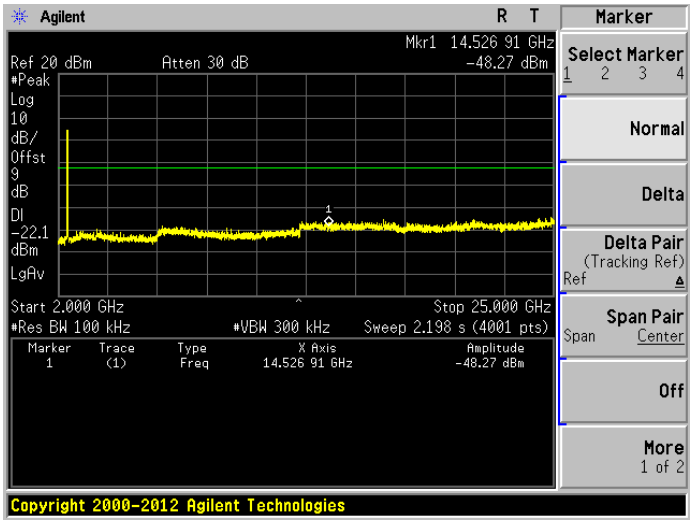
802.11n-40 CHANNEL 3 CARRIER LEVEL



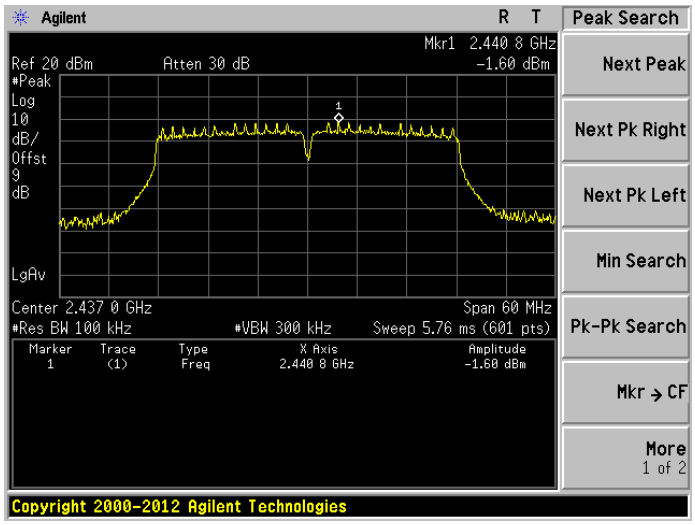
802.11n-40 CHANNEL 3, SPURIOUS 30 MHz ~ 3 GHz



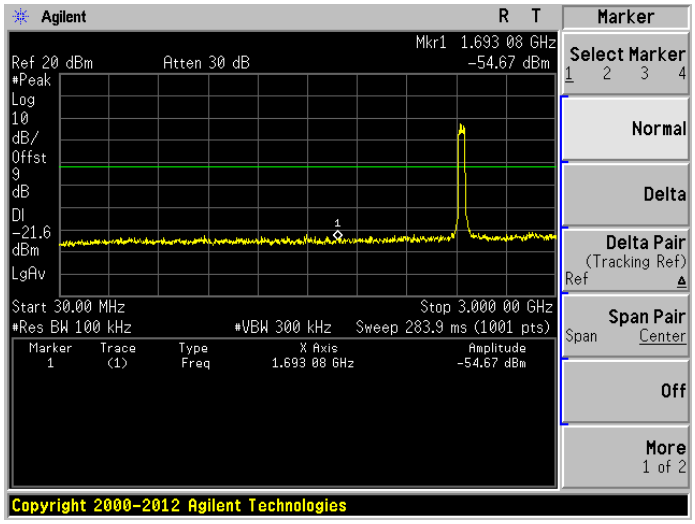
802.11n-40 CHANNEL 3, SPURIOUS 2 GHz ~ 25 GHz



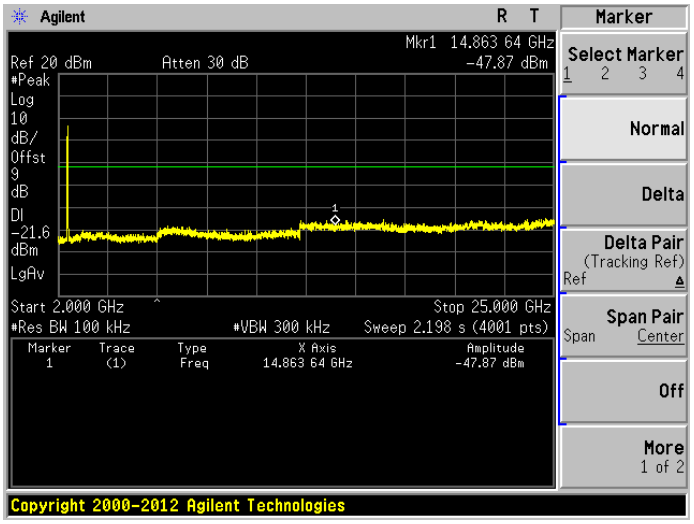
802.11n-40 CHANNEL 6 CARRIER LEVEL



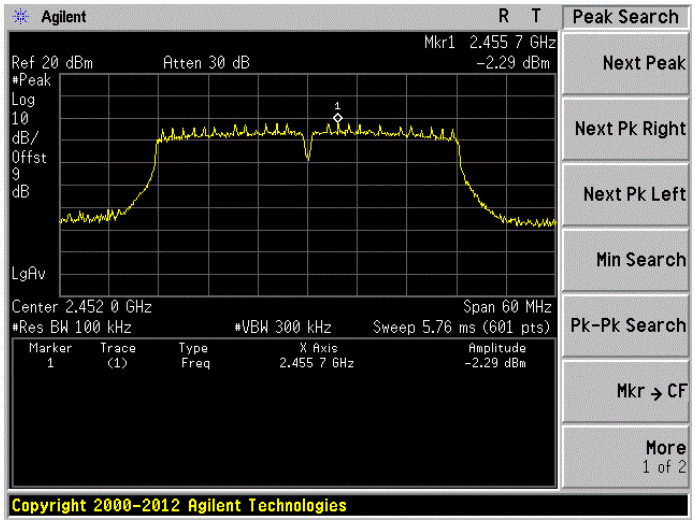
802.11n-40 CHANNEL 6, SPURIOUS 30 MHz ~ 3 GHz



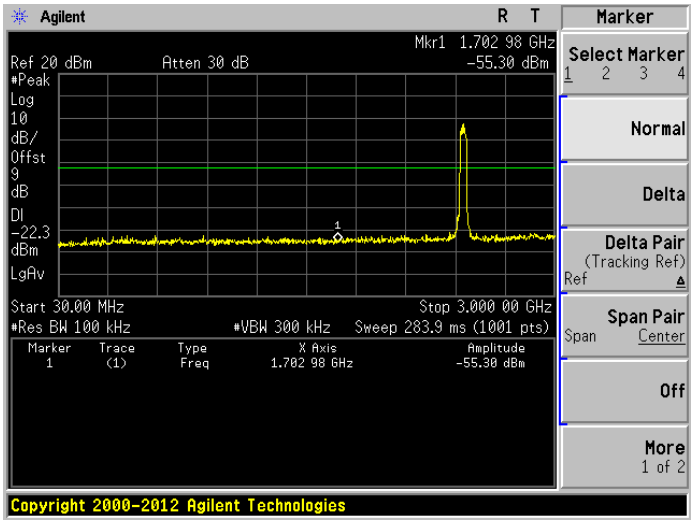
802.11n-40 CHANNEL 6, SPURIOUS 2 GHz ~ 25 GHz



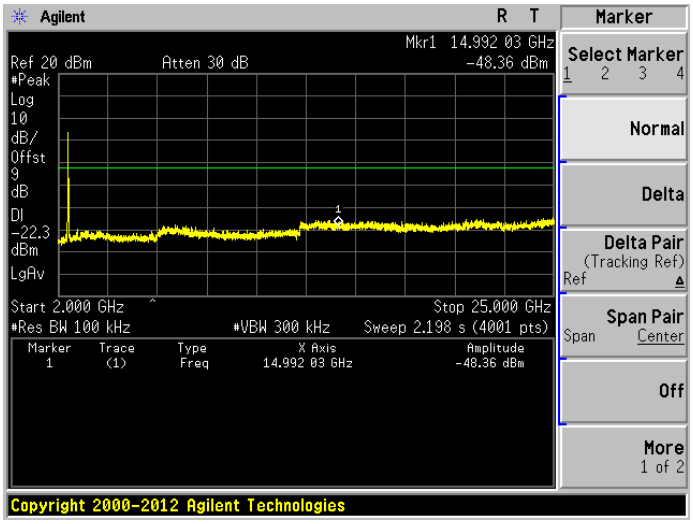
802.11n-40 CHANNEL 9 CARRIER LEVEL



802.11n-40 CHANNEL 9, SPURIOUS
30 MHz ~ 3 GHz

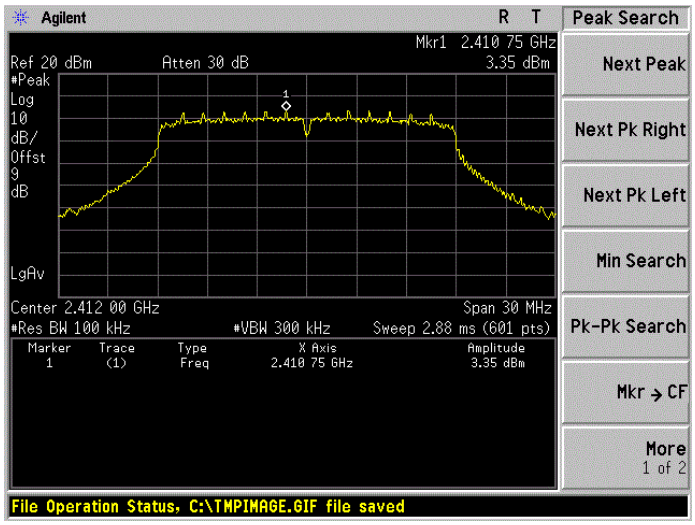


802.11n-40 CHANNEL 9, SPURIOUS
2 GHz ~ 25 GHz

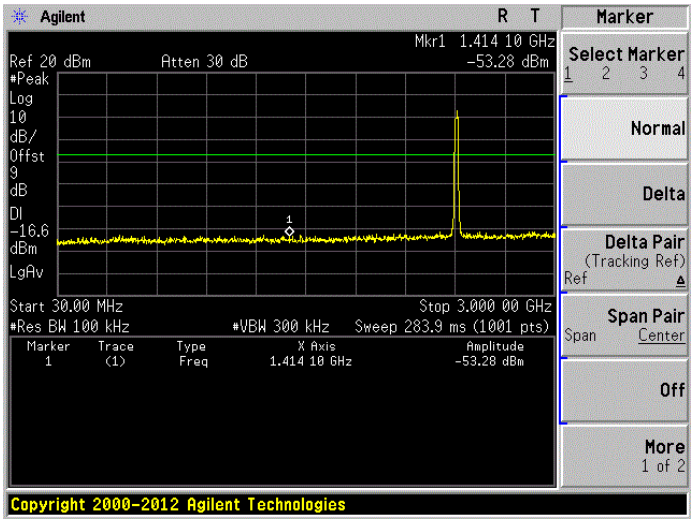


MIMO ANT1

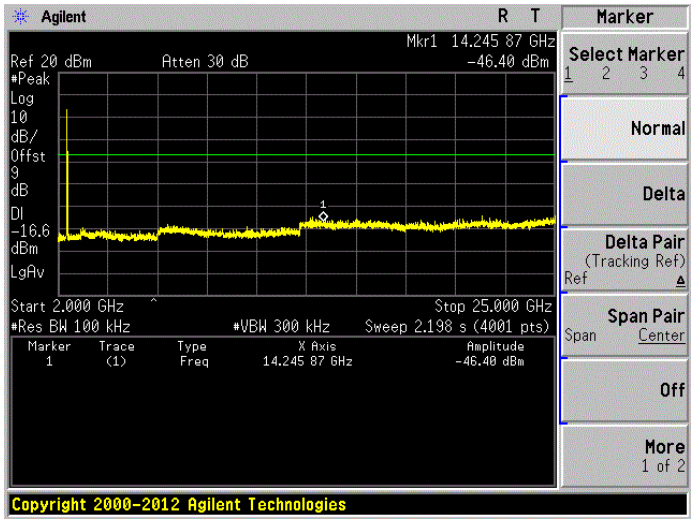
802.11n-20 CHANNEL 1 CARRIER LEVEL



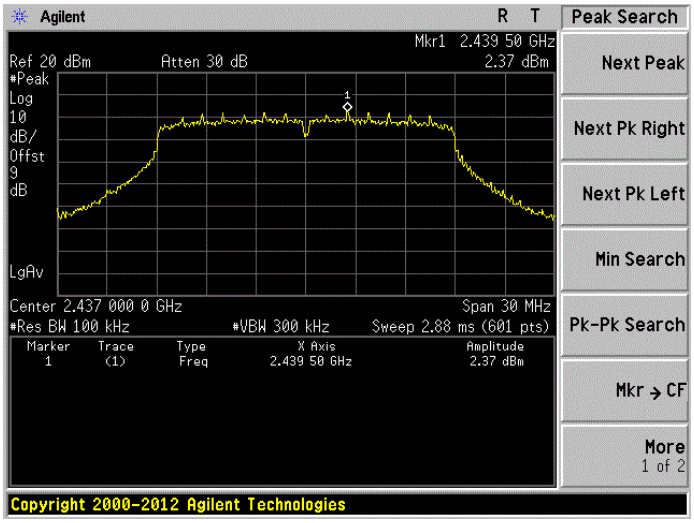
802.11n-20 CHANNEL 1, SPURIOUS 30 MHz ~ 3 GHz



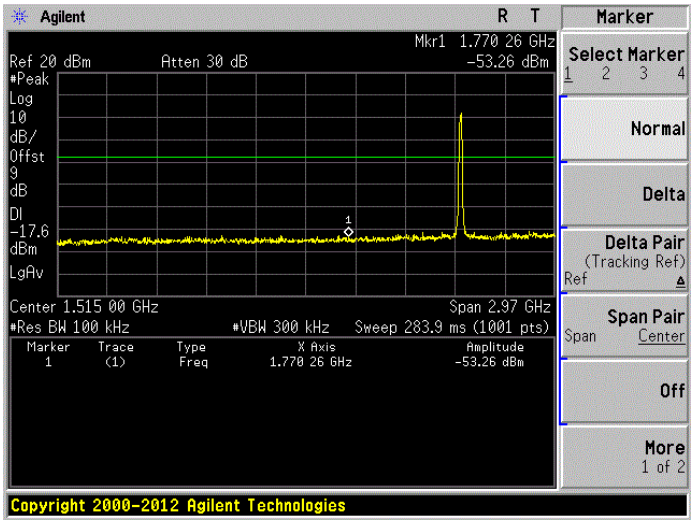
802.11n-20 CHANNEL 1, SPURIOUS 2 GHz ~ 25 GHz



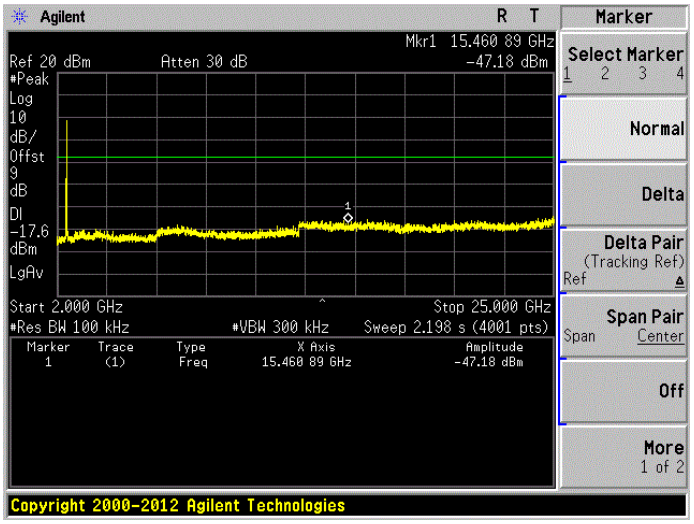
802.11n-20 CHANNEL 6 CARRIER LEVEL



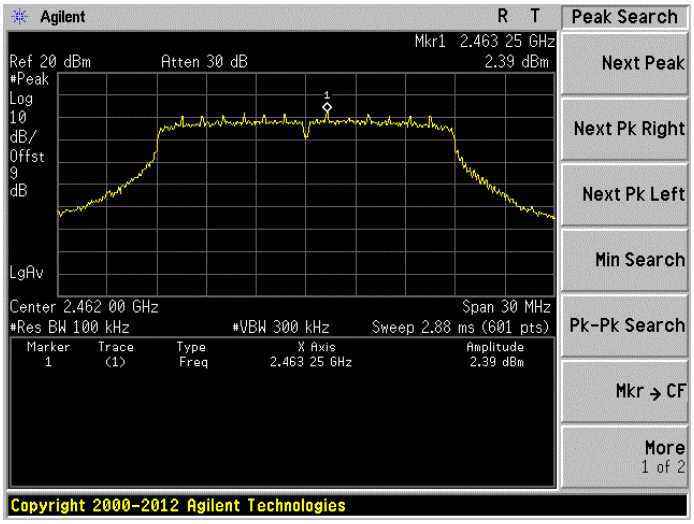
802.11n-20 CHANNEL 6, SPURIOUS 30 MHz ~ 3 GHz



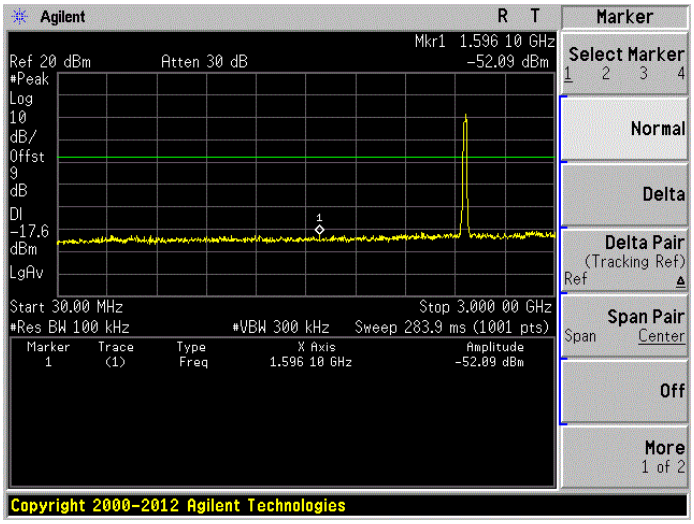
802.11n-20 CHANNEL 6, SPURIOUS 2 GHz ~ 25 GHz



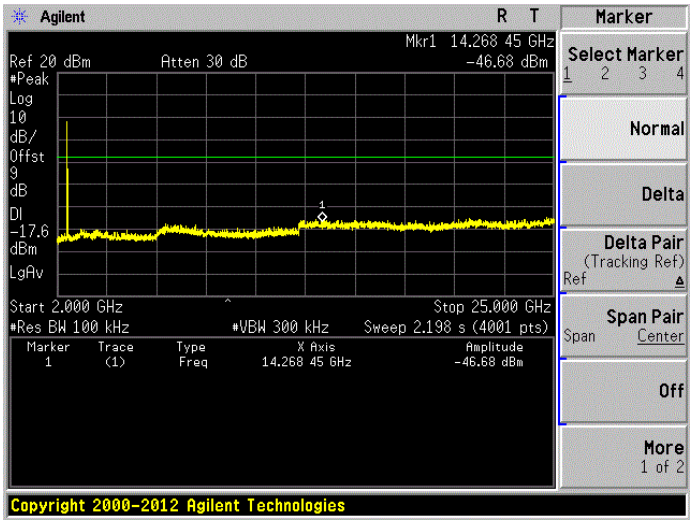
802.11n-20 CHANNEL 11 CARRIER LEVEL



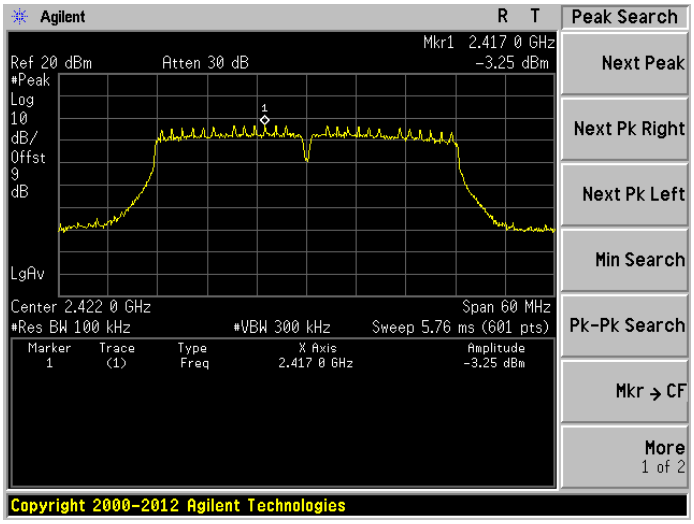
802.11n-20 CHANNEL 11, SPURIOUS 30 MHz ~ 3 GHz



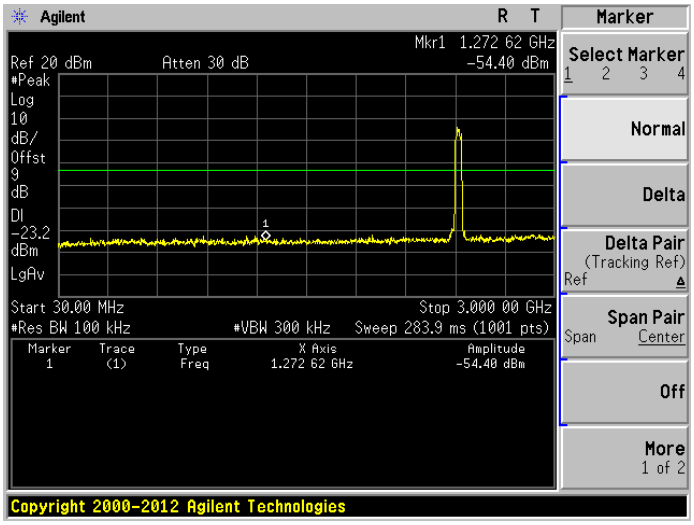
802.11n-20 CHANNEL 11, SPURIOUS 2 GHz ~ 25 GHz



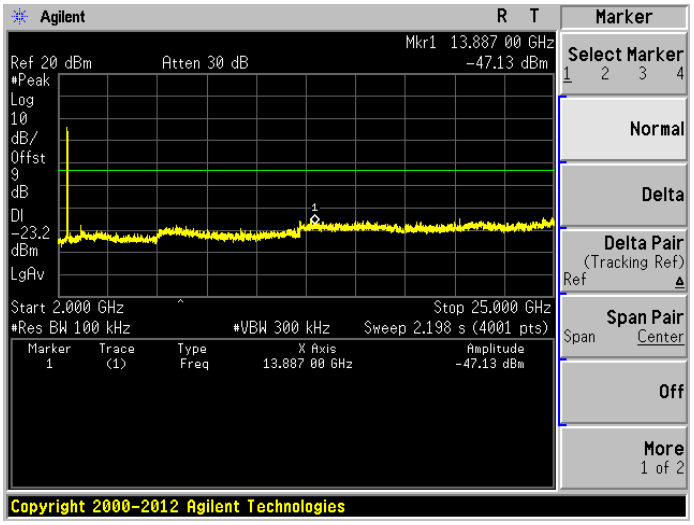
802.11n-40 CHANNEL 3 CARRIER LEVEL



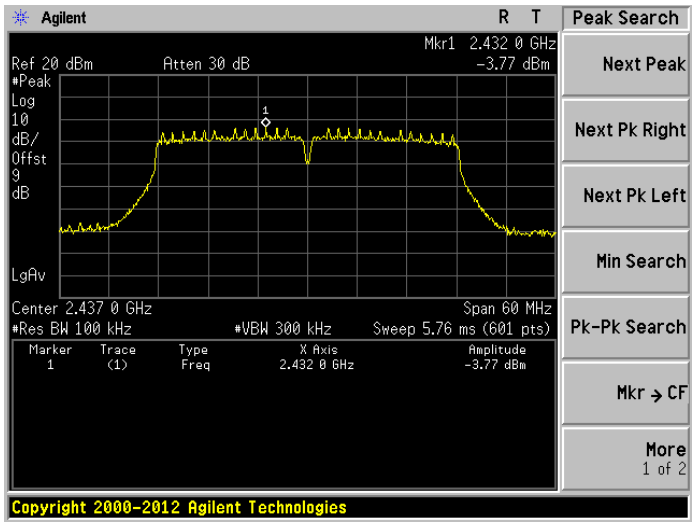
802.11n-40 CHANNEL 3, SPURIOUS 30 MHz ~ 3 GHz



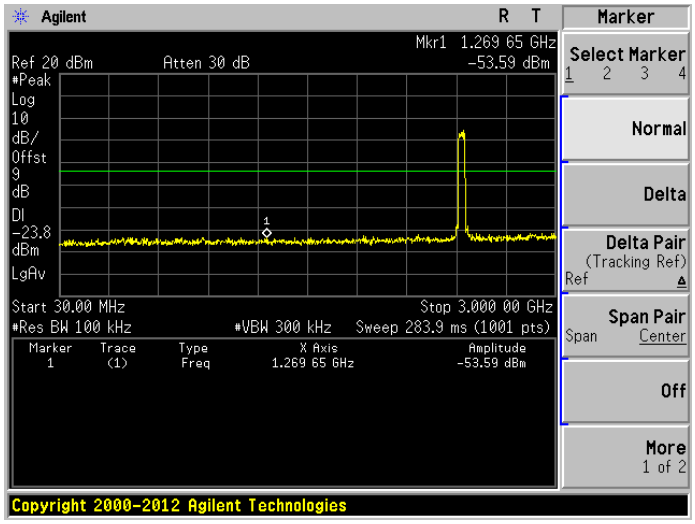
802.11n-40 CHANNEL 3, SPURIOUS 2 GHz ~ 25 GHz



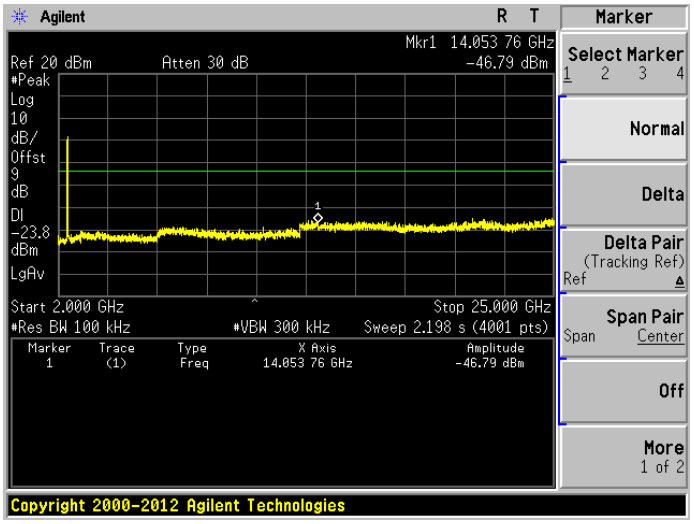
802.11n-40 CHANNEL 6 CARRIER LEVEL



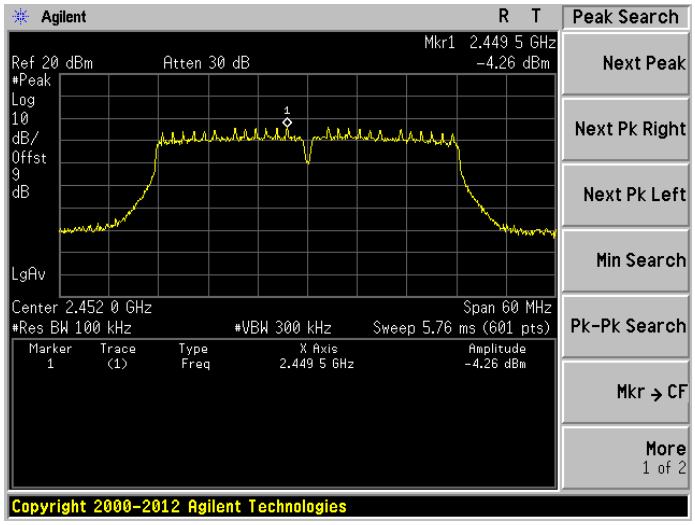
802.11n-40 CHANNEL 6, SPURIOUS 30 MHz ~ 3 GHz



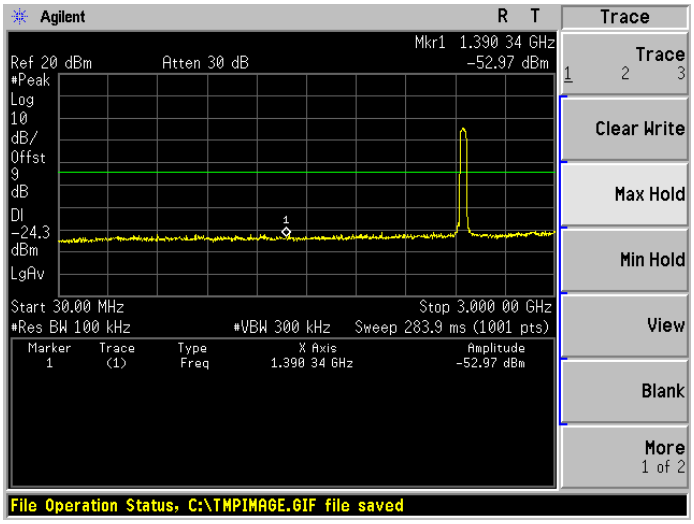
802.11n-40 CHANNEL 6, SPURIOUS 2 GHz ~ 25 GHz



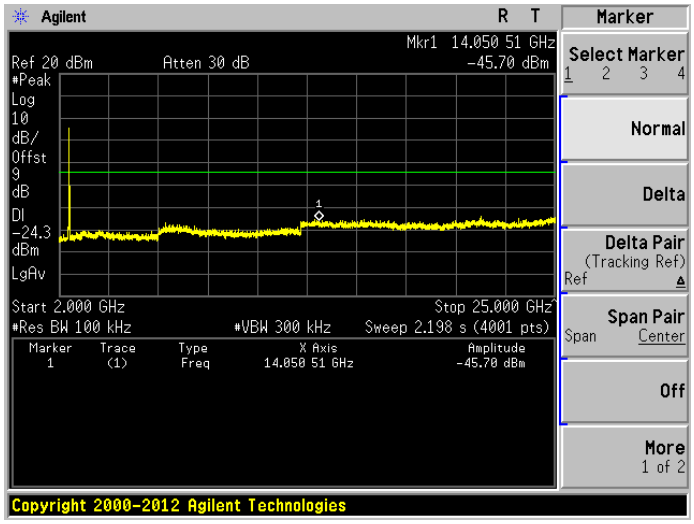
802.11n-40 CHANNEL 9 CARRIER LEVEL



802.11n-40 CHANNEL 9, SPURIOUS
30 MHz ~ 3 GHz



802.11n-40 CHANNEL 9, SPURIOUS
2 GHz ~ 25 GHz



A.4 Band Edge (Authorized-band band-edge)

Test Data

Note: The 99% OBW of the fundamental emission is without 2 MHz of the authorized band.

SISO ANT0

802.11b Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-39.46	9.03	-10.97	Pass
11	-51.24	8.50	-11.50	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-26.17	6.65	-13.35	Pass
11	-40.95	6.67	-13.33	Pass

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-24.11	7.59	-12.41	Pass
11	-38.87	6.47	-13.53	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
3	-26.59	4.49	-15.51	Pass
9	-30.86	3.79	-16.21	Pass

SISO ANT1

802.11b Mode：

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-37.26	9.08	-10.92	Pass
11	-49.90	7.76	-12.24	Pass

802.11g Mode：

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-37.95	7.25	-12.75	Pass
11	-52.03	5.89	-14.11	Pass

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-36.49	6.85	-13.15	Pass
11	-52.34	6.44	-13.56	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
3	-40.80	4.44	-15.56	Pass
9	-49.63	3.38	-16.62	Pass

MIMO ANT0

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-30.41	5.20	-14.80	Pass
11	-42.74	4.74	-15.26	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
3	-31.16	-2.14	-22.14	Pass
9	-37.47	-2.29	-22.29	Pass

MIMO ANT1

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
1	-34.87	3.35	-16.65	Pass
11	-46.40	2.39	-17.61	Pass

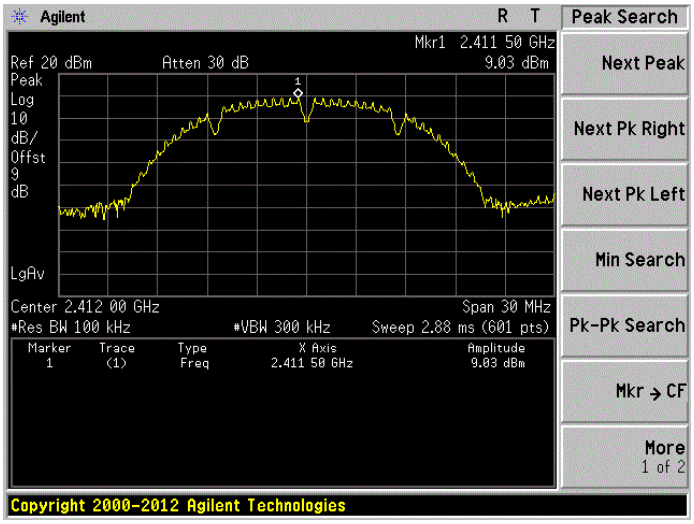
802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
3	-35.39	-3.25	-23.25	Pass
9	-42.40	-4.26	-24.26	Pass

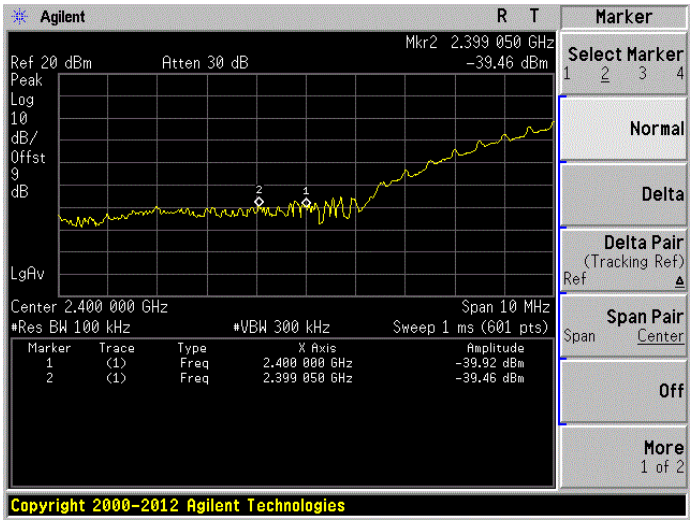
Test Plots

SISO ANT0

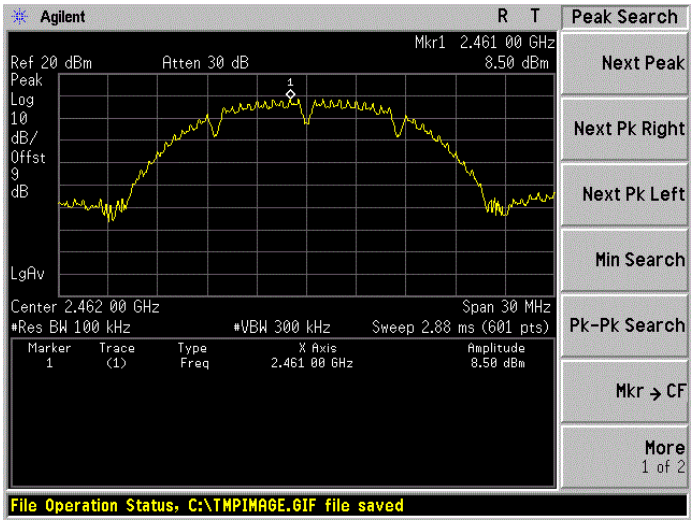
802.11b CHANNEL 1, Carrier level



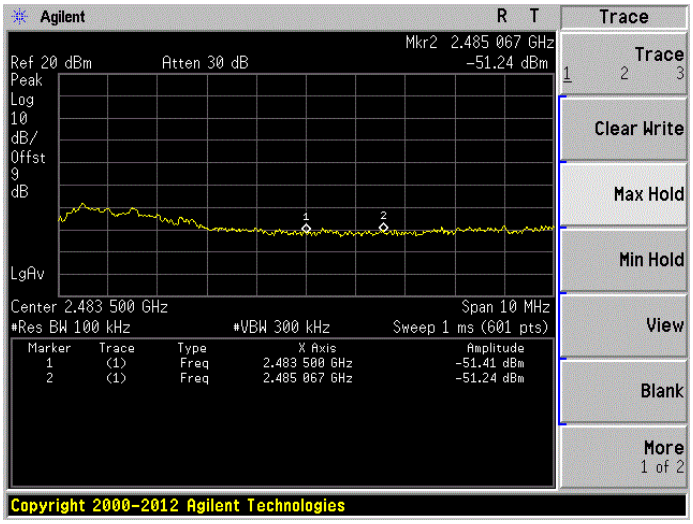
802.11b CHANNEL 1, Reference level



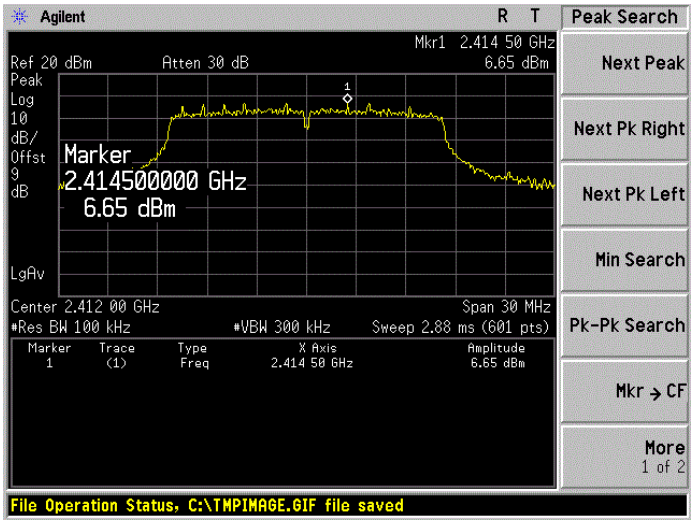
802.11b CHANNEL 11, Carrier level



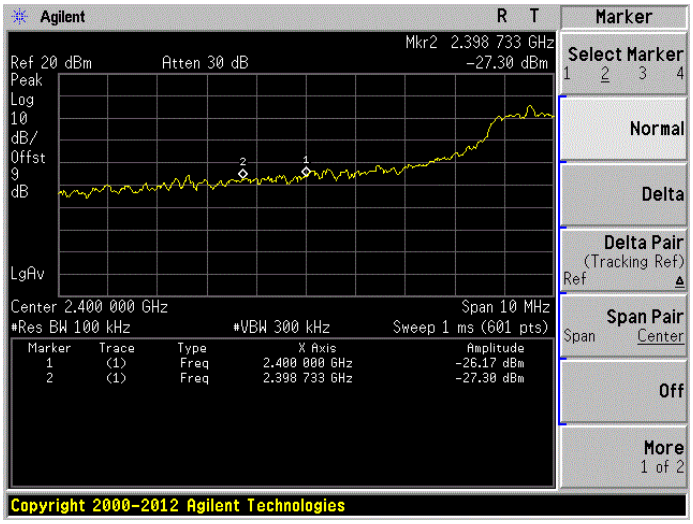
802.11b CHANNEL 11, Reference level



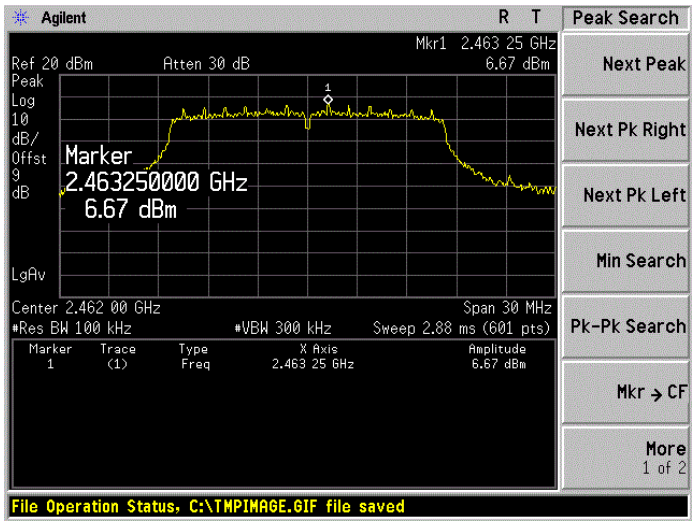
802.11g CHANNEL 1, Carrier level



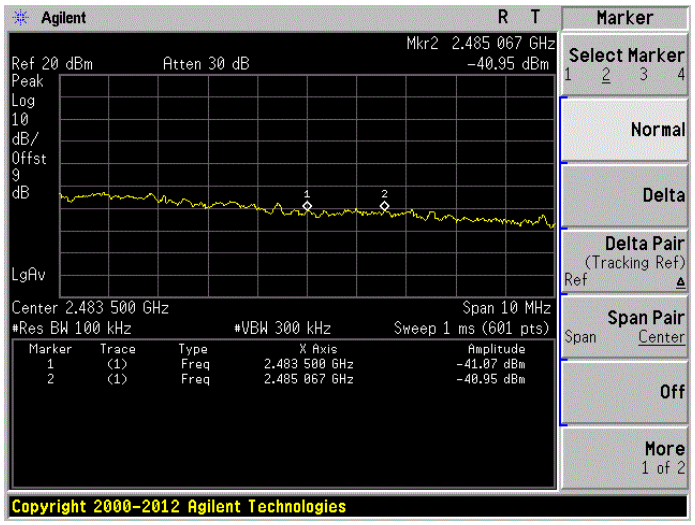
802.11g LOW CHANNEL 1, Reference level



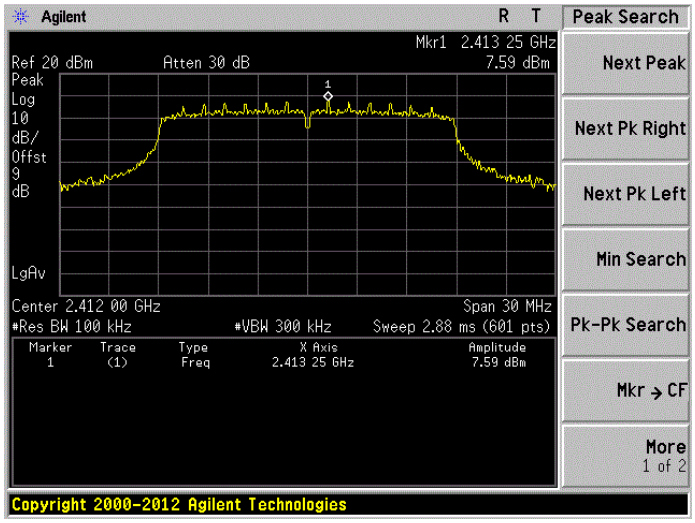
802.11g CHANNEL 11, Carrier level



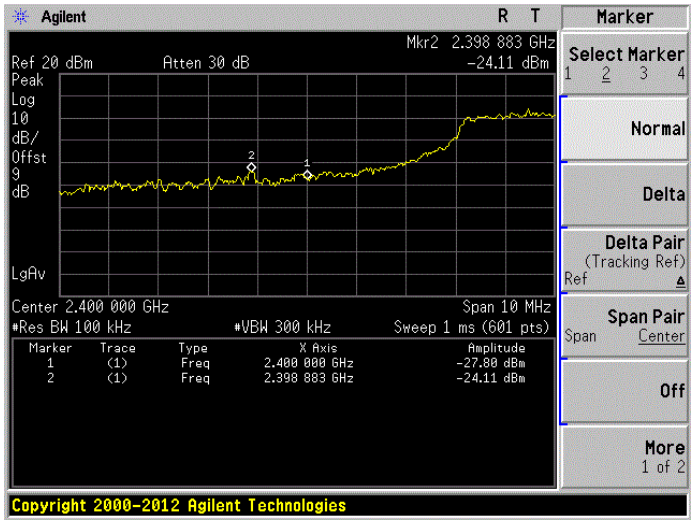
802.11g LOW CHANNEL 11, Reference level



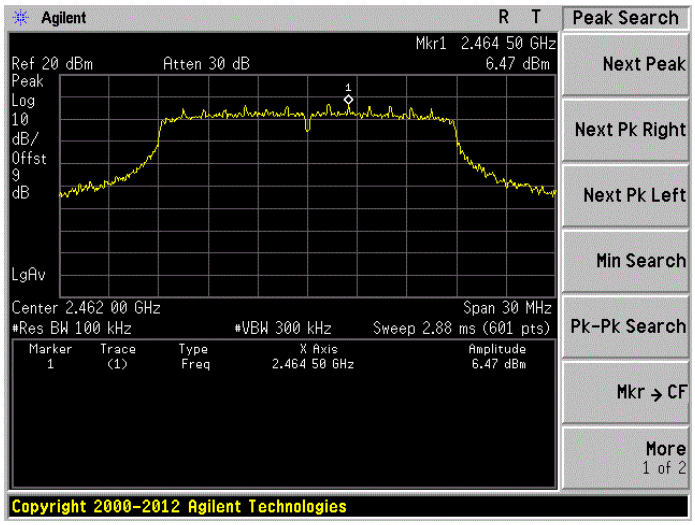
802.11n-20 MHz CHANNEL 1, Carrier level



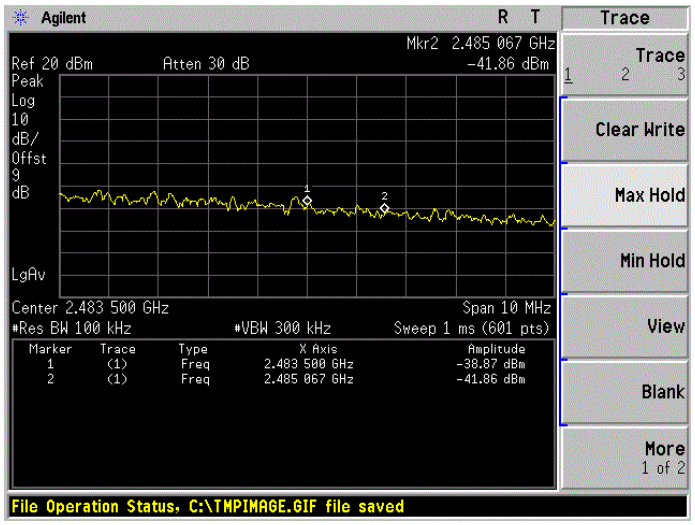
802.11n-20 MHz CHANNEL 1, Reference level



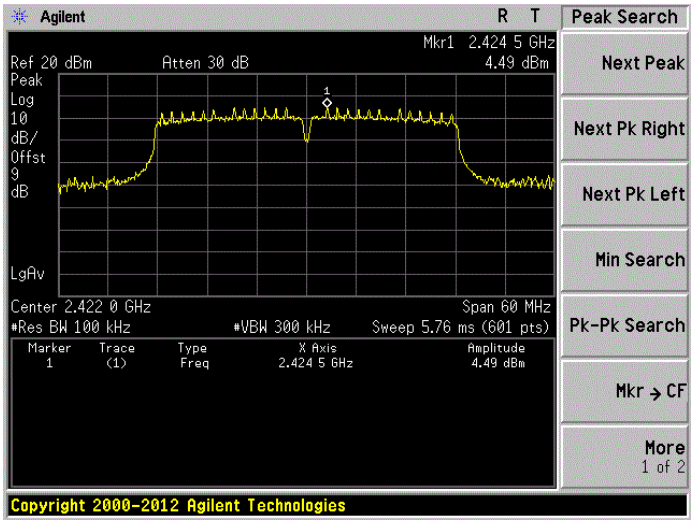
802.11n-20 MHz CHANNEL 11, Carrier level



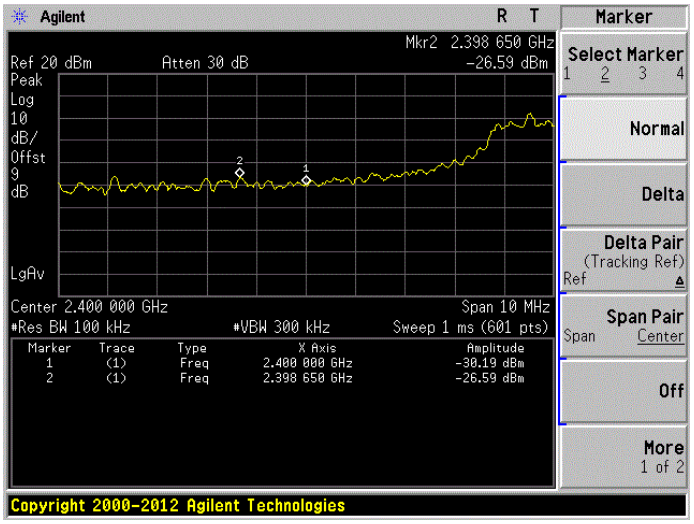
802.11n-20 MHz CHANNEL 11, Reference level



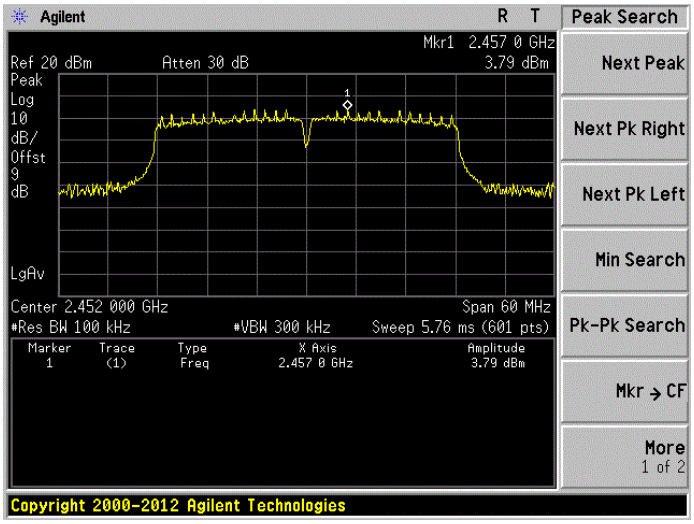
802.11n-40 MHz CHANNEL 3, Carrier level



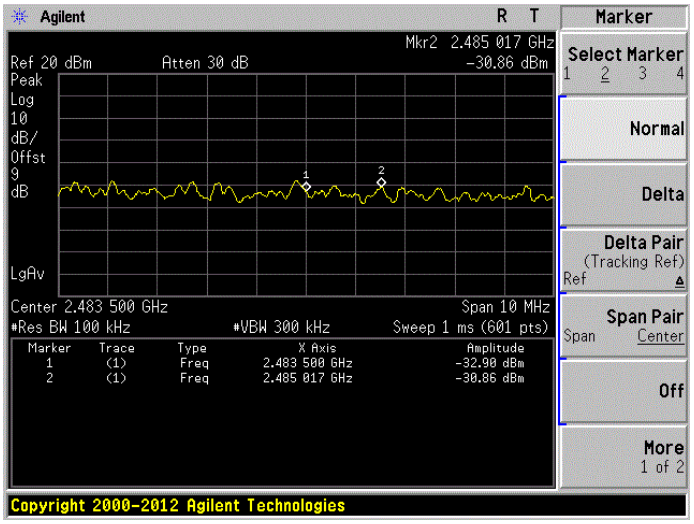
802.11n-40 MHz CHANNEL 3, Reference level



802.11n-40 MHz CHANNEL 9, Carrier level



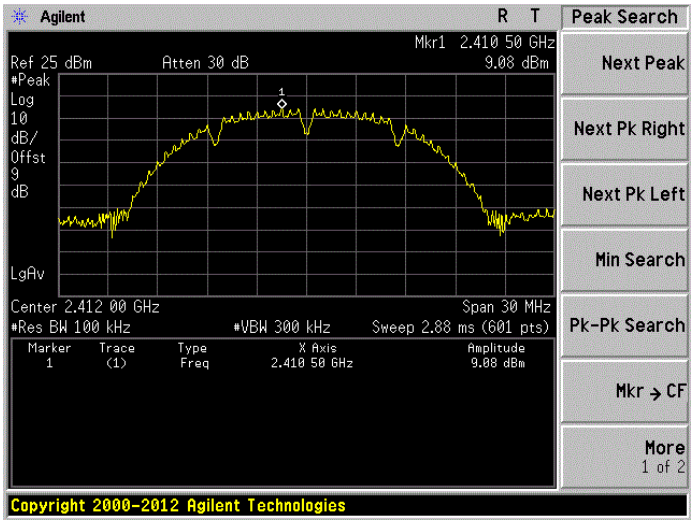
802.11n-40 MHz CHANNEL 9, Reference level



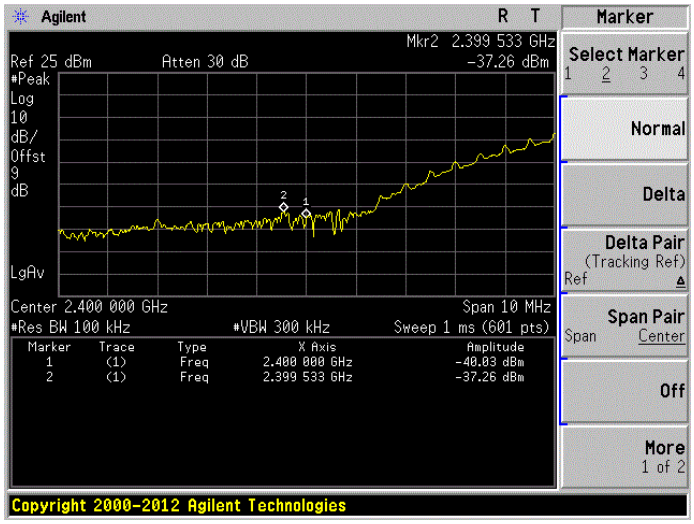
Test Plots

SISO ANT1

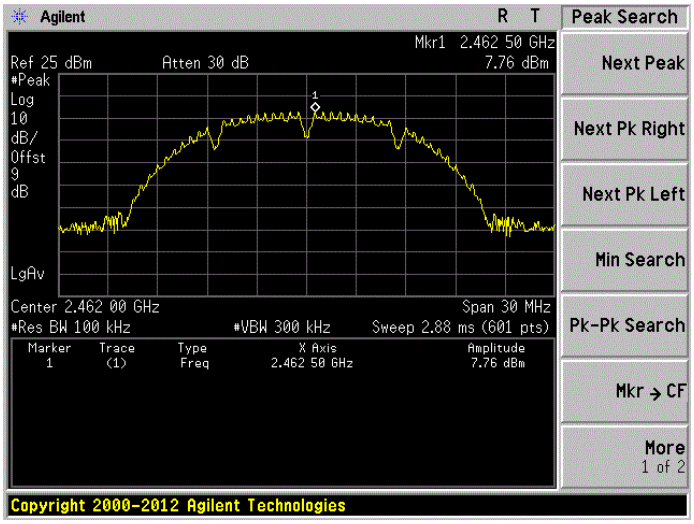
802.11b CHANNEL 1, Carrier level



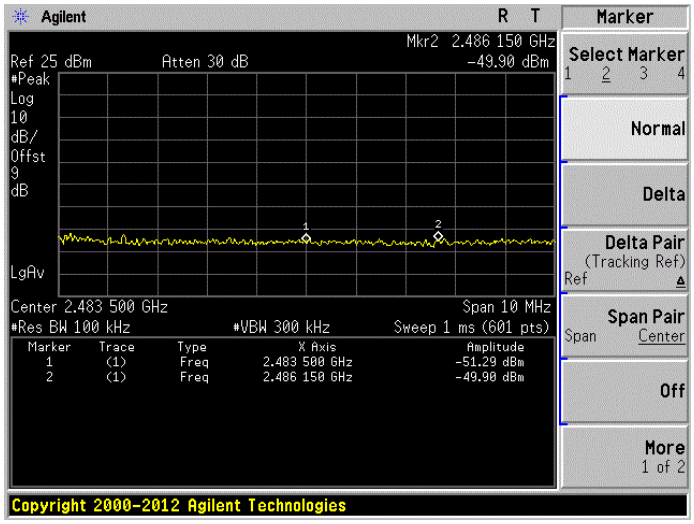
802.11b CHANNEL 1, Reference level



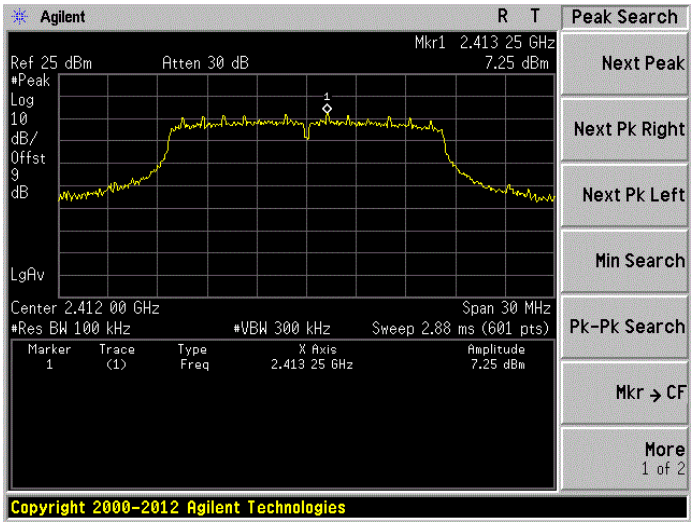
802.11b CHANNEL 11, Carrier level



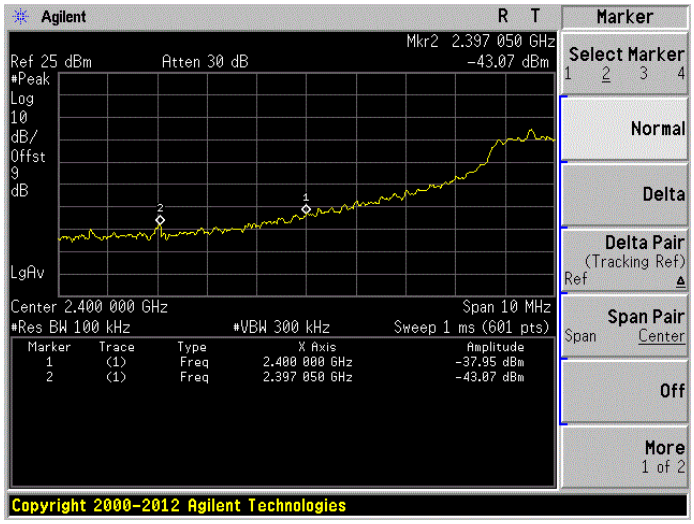
802.11b CHANNEL 11, Reference level



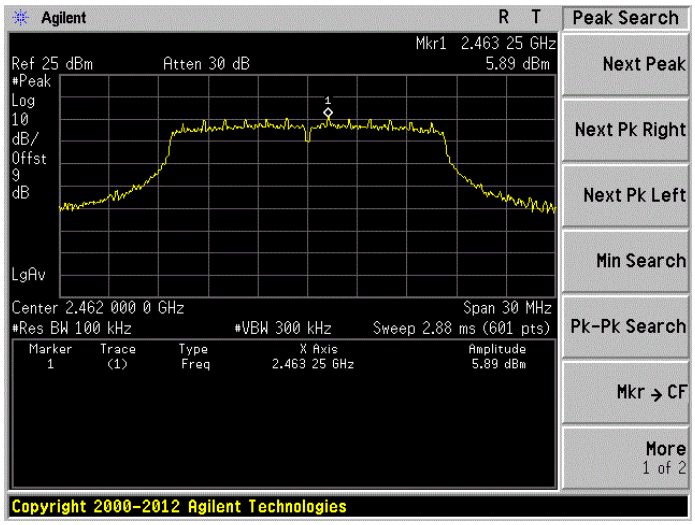
802.11g CHANNEL 1, Carrier level



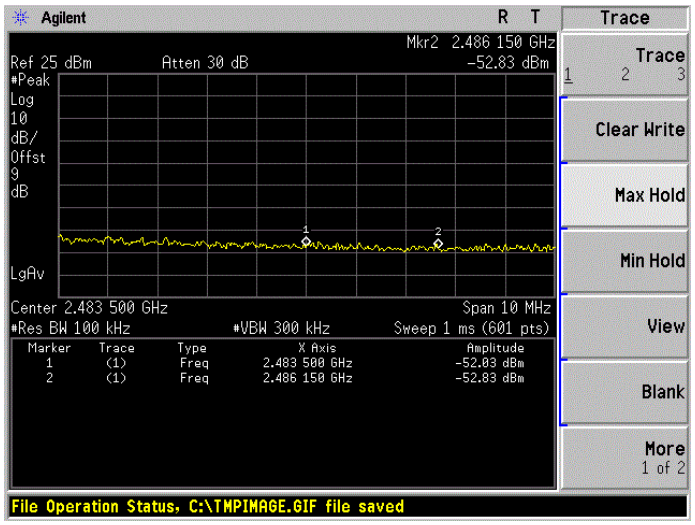
802.11g LOW CHANNEL 1, Reference level



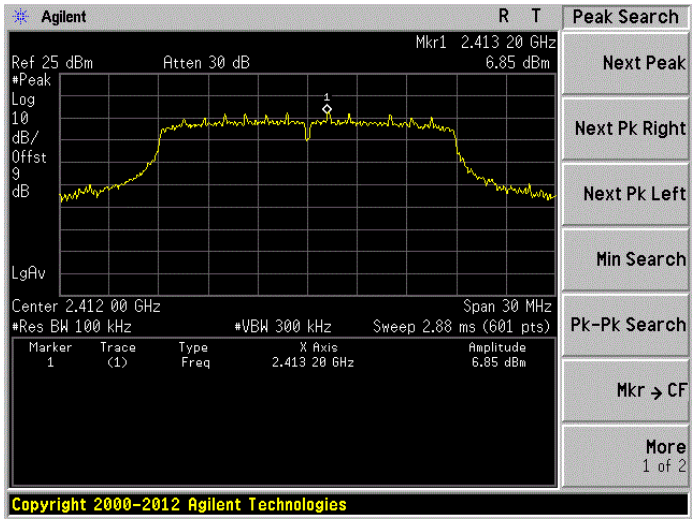
802.11g CHANNEL 11, Carrier level



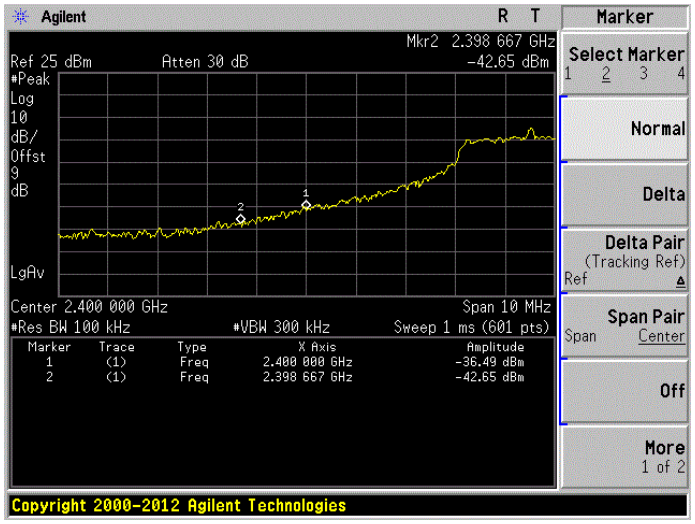
802.11g LOW CHANNEL 11, Reference level



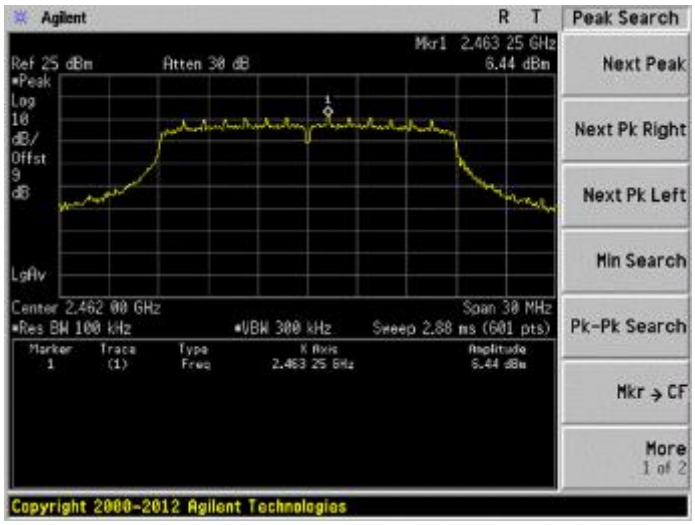
802.11n-20 MHz CHANNEL 1, Carrier level



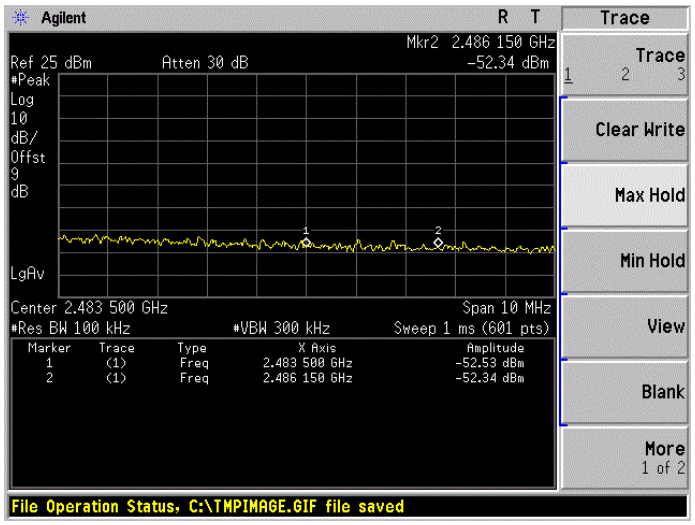
802.11n-20 MHz CHANNEL 1, Reference level



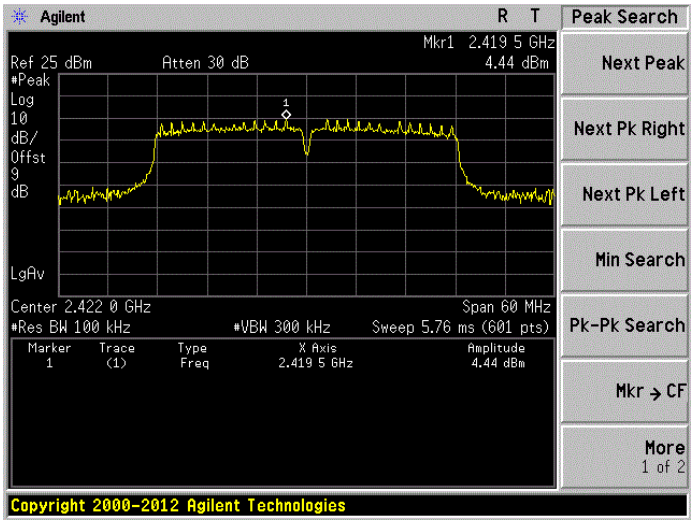
802.11n-20 MHz CHANNEL 11, Carrier level



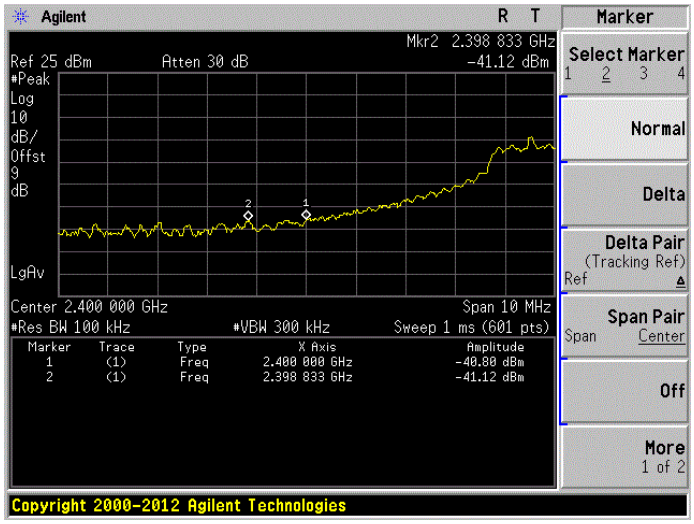
802.11n-20 MHz CHANNEL 11, Reference level



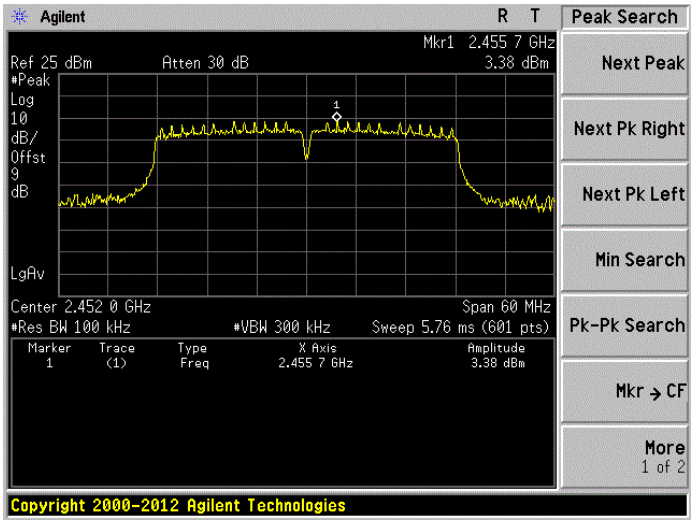
802.11n-40 MHz CHANNEL 3, Carrier level



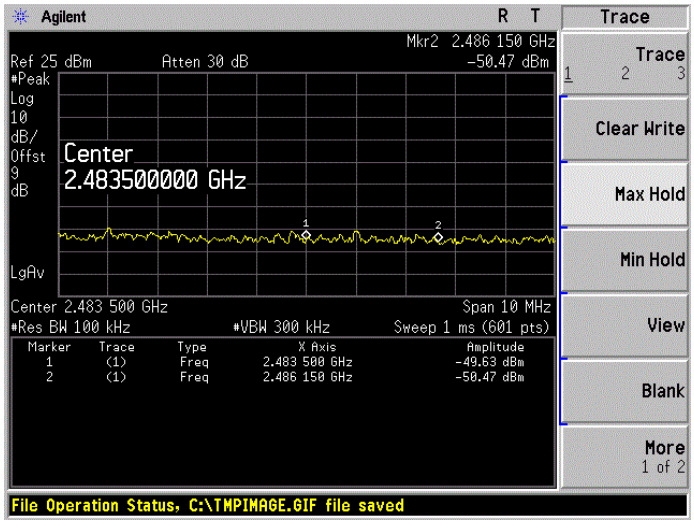
802.11n-40 MHz CHANNEL 3, Reference level



802.11n-40 MHz CHANNEL 9, Carrier level

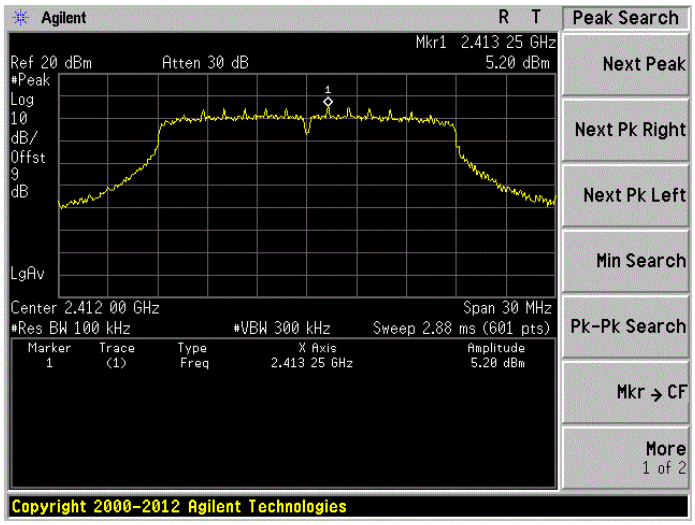


802.11n-40 MHz CHANNEL 9, Reference level

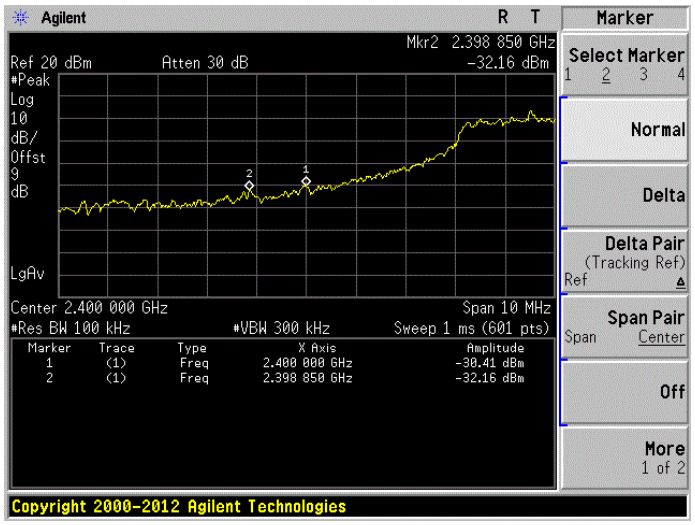


MIMO ANT0

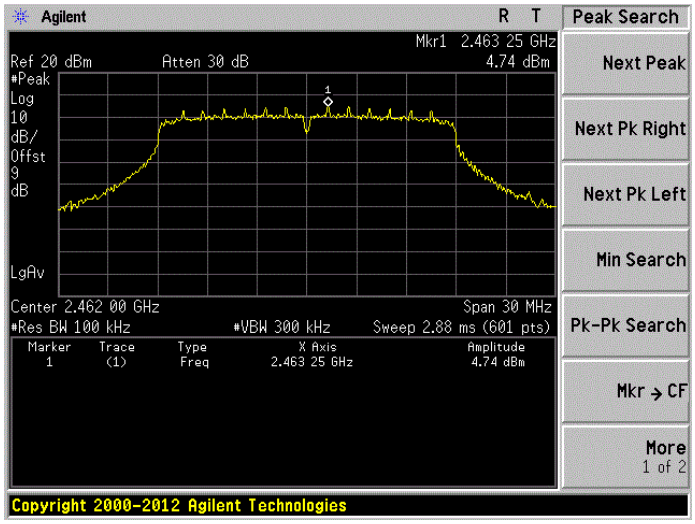
802.11n-20 MHz CHANNEL 1, Carrier level



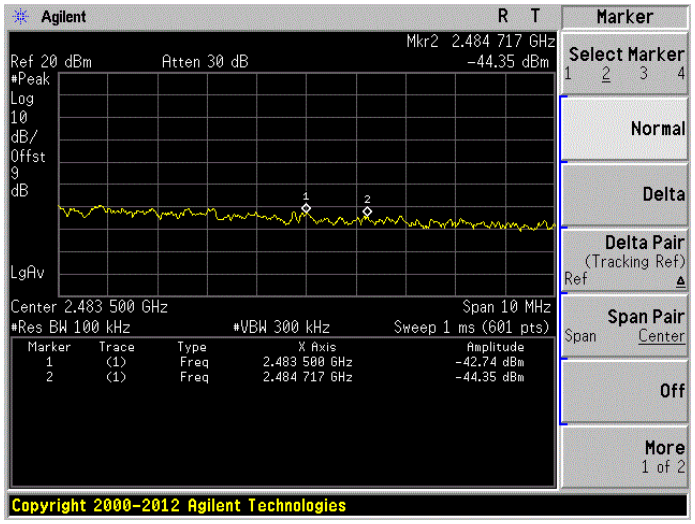
802.11n-20 MHz CHANNEL 1, Reference level



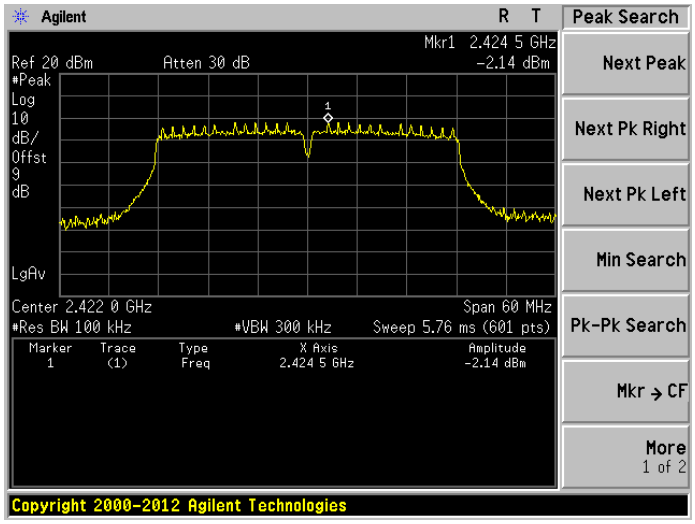
802.11n-20 MHz CHANNEL 11, Carrier level



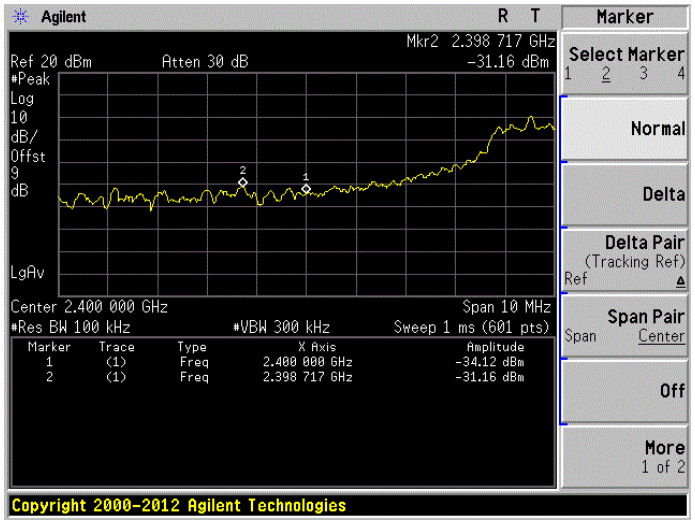
802.11n-20 MHz CHANNEL 11, Reference level



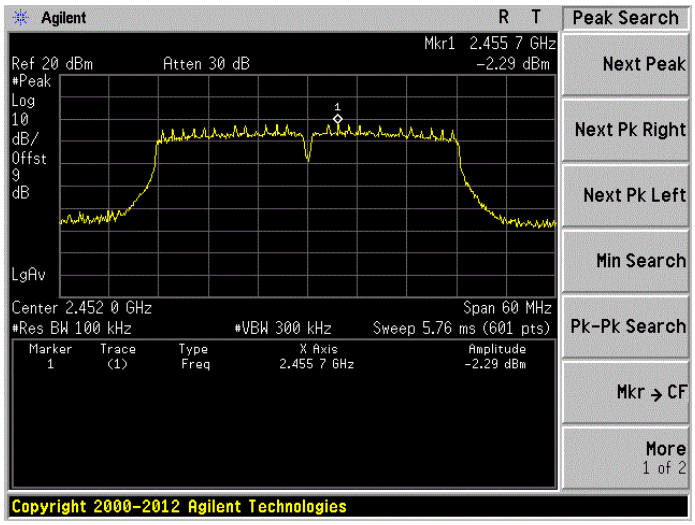
802.11n-40 MHz CHANNEL 3, Carrier level



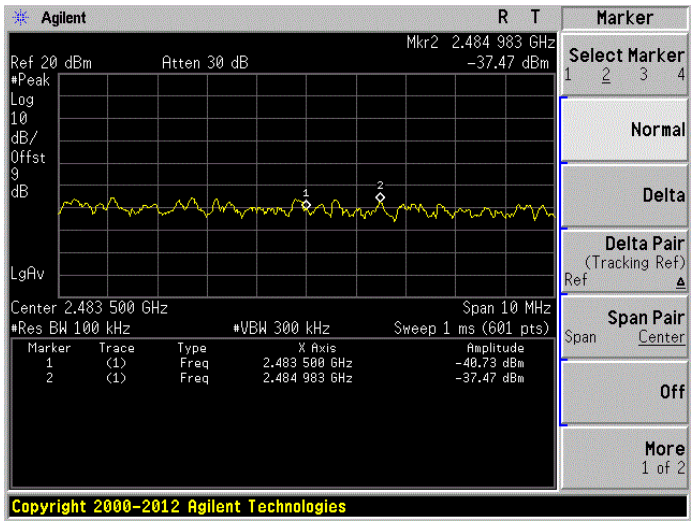
802.11n-40 MHz CHANNEL 3, Reference level



802.11n-40 MHz CHANNEL 9, Carrier level

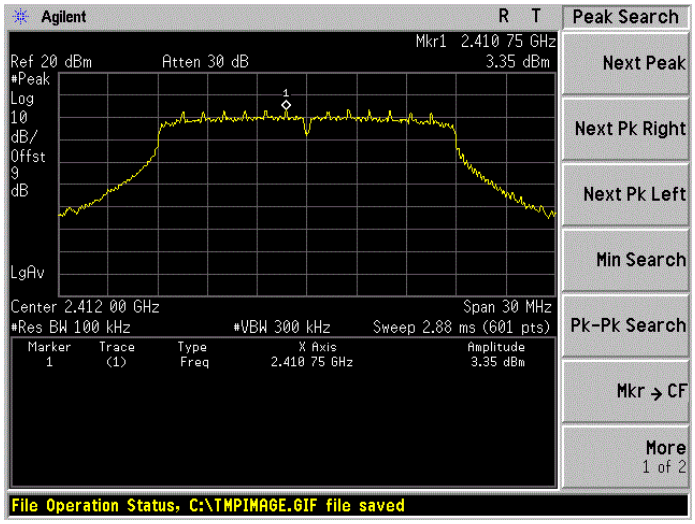


802.11n-40 MHz CHANNEL 9, Reference level

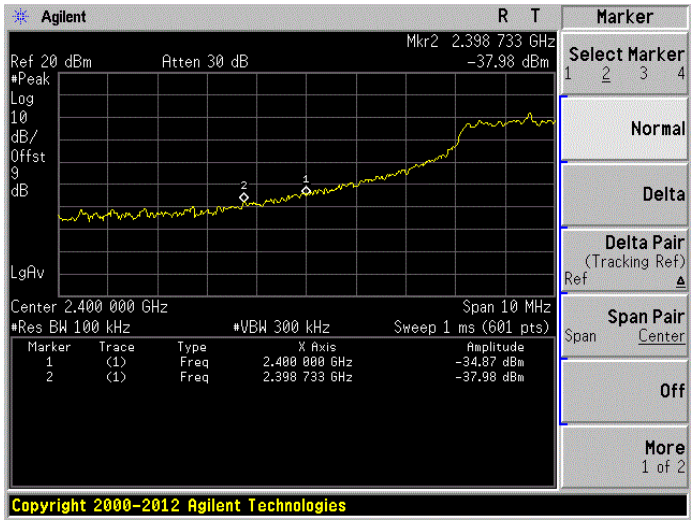


MIMO ANT1

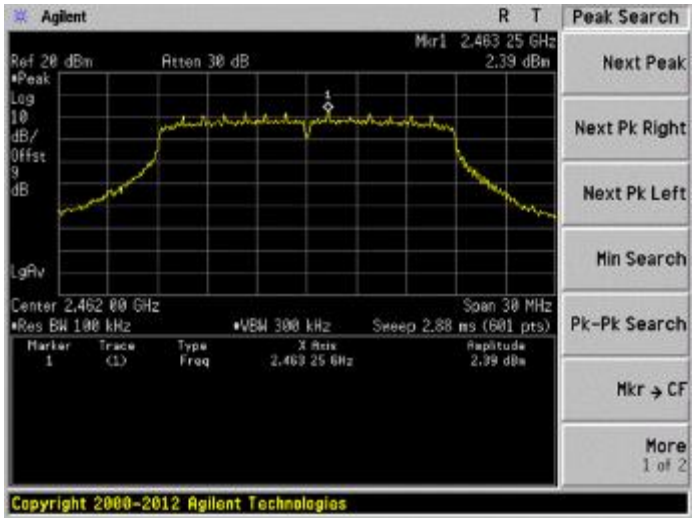
802.11n-20 MHz CHANNEL 1, Carrier level



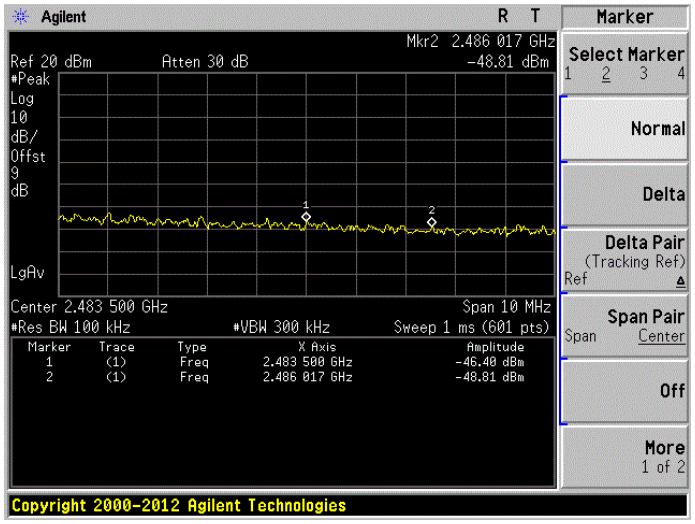
802.11n-20 MHz CHANNEL 1, Reference level



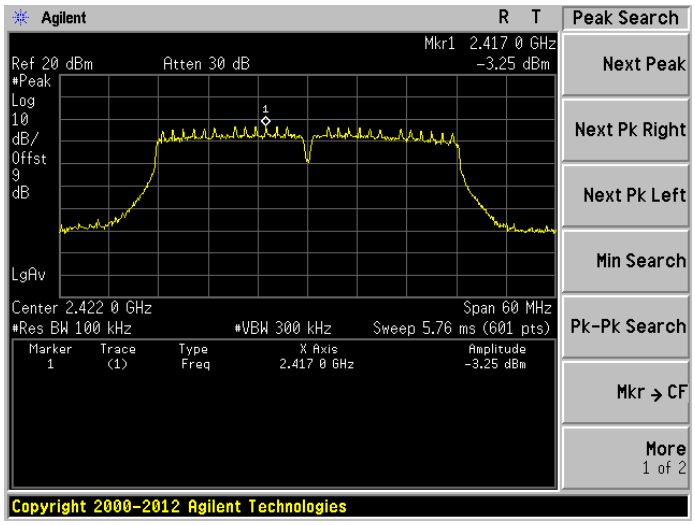
802.11n-20 MHz CHANNEL 11, Carrier level



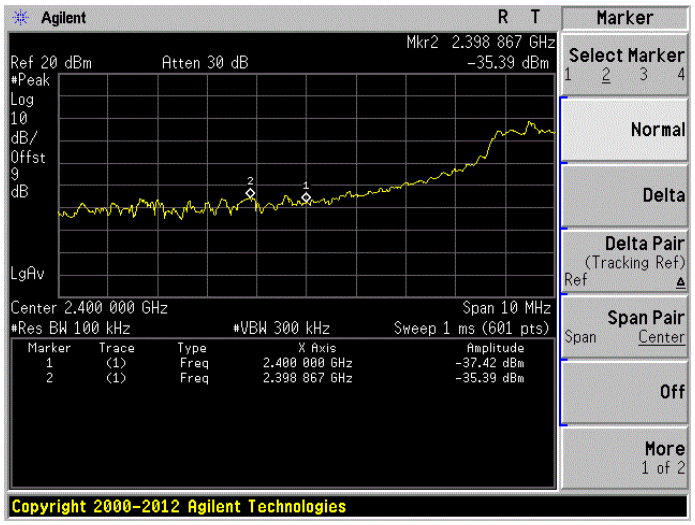
802.11n-20 MHz CHANNEL 11, Reference level



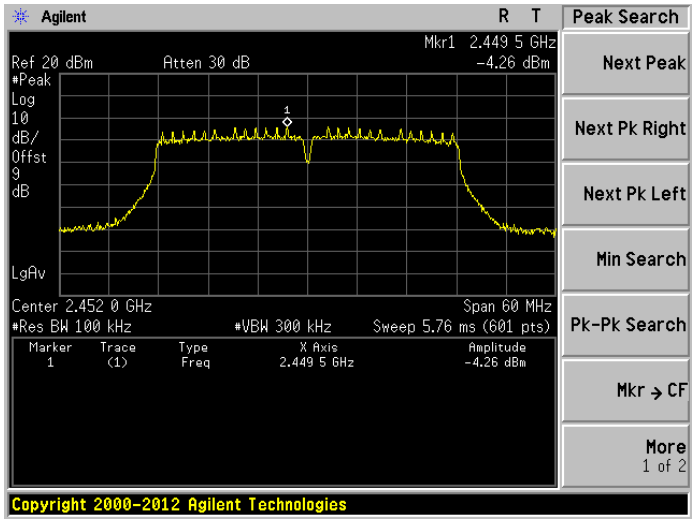
802.11n-40 MHz CHANNEL 3, Carrier level



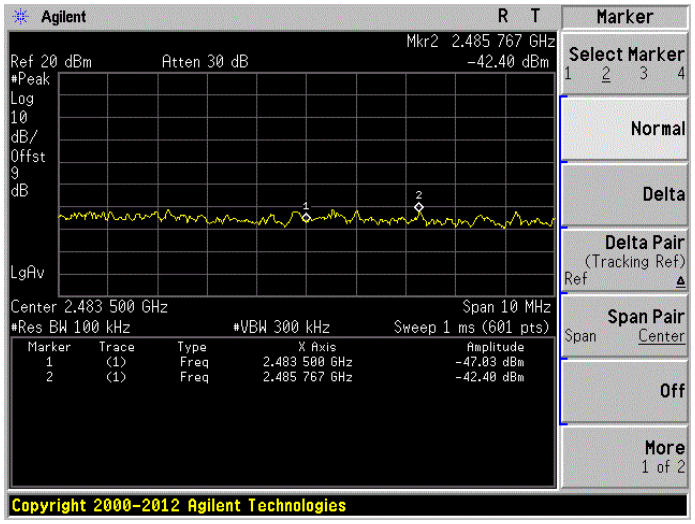
802.11n-40 MHz CHANNEL 3, Reference level



802.11n-40 MHz CHANNEL 9, Carrier level



802.11n-40 MHz CHANNEL 9, Reference level

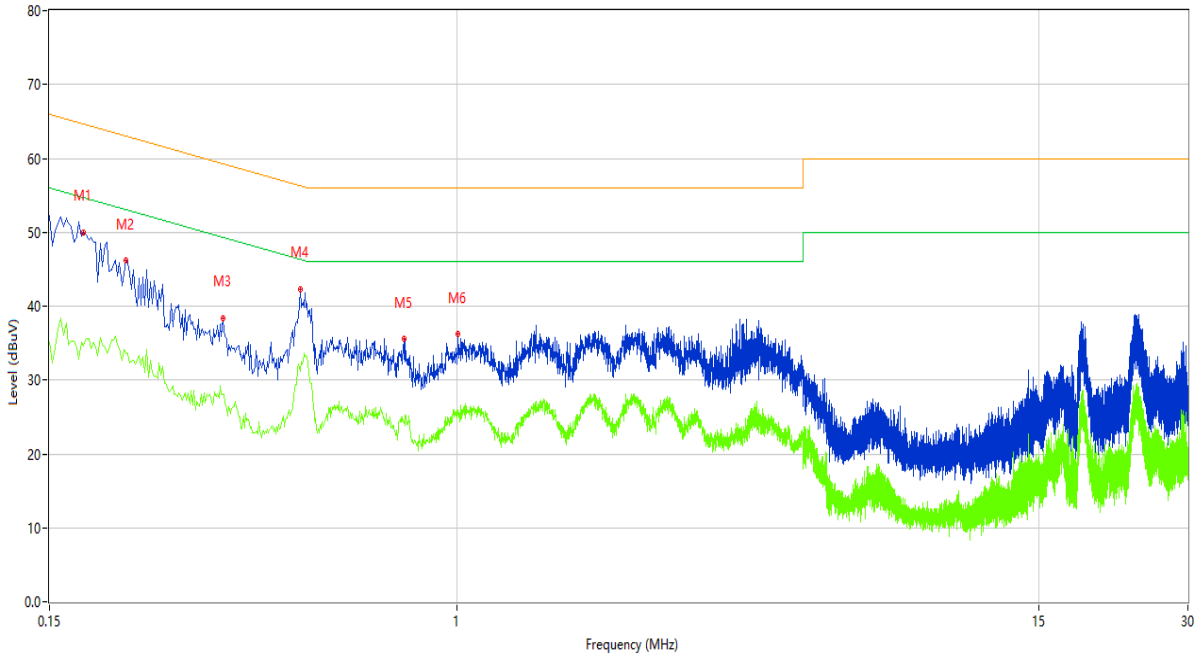


A.5 Conducted Emissions

Note [1]: The EUT is working in the Normal link mode.

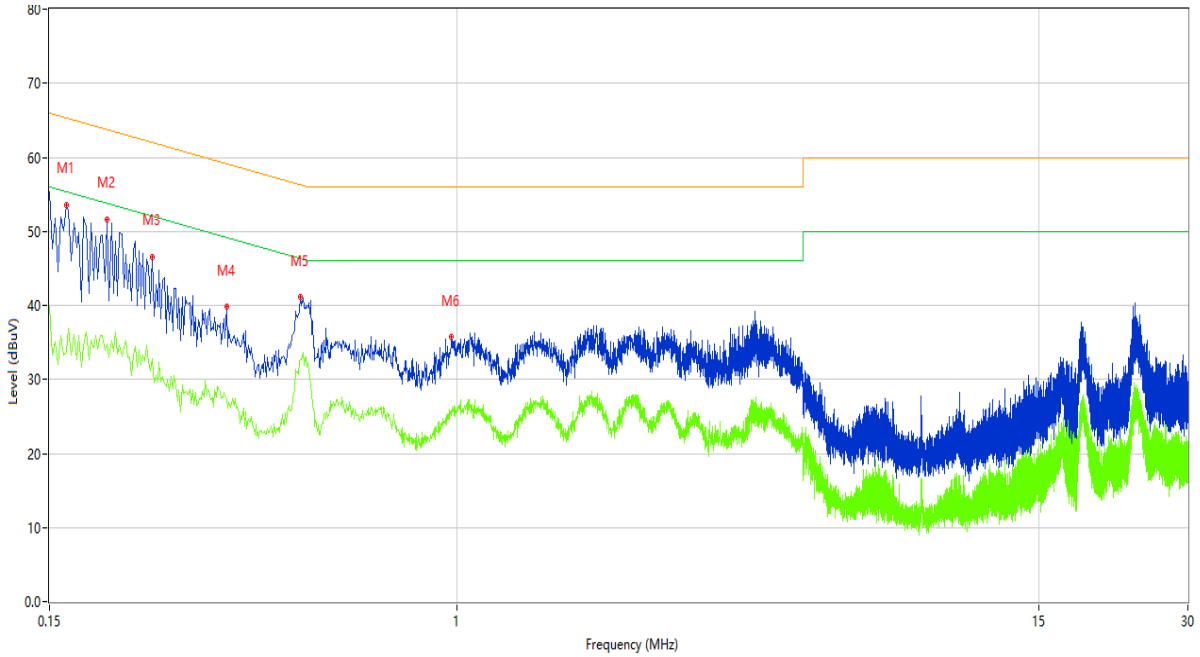
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1*	0.176	47.68	11.12	64.67	-16.99	Peak	L	Pass
1**	0.176	34.60	11.12	54.67	-20.07	AV	L	Pass
2*	0.214	43.51	11.29	63.05	-19.54	Peak	L	Pass
2**	0.214	33.55	11.29	53.05	-19.50	AV	L	Pass
3*	0.336	32.35	11.43	59.30	-26.95	Peak	L	Pass
3**	0.336	28.08	11.43	49.30	-21.22	AV	L	Pass
4*	0.482	37.50	11.16	56.30	-18.80	Peak	L	Pass
4**	0.482	31.17	11.16	46.30	-15.13	AV	L	Pass
5*	0.780	23.54	11.13	56.00	-32.46	Peak	L	Pass
5**	0.780	24.17	11.13	46.00	-21.83	AV	L	Pass
6*	1.004	29.87	11.22	56.00	-26.13	Peak	L	Pass
6**	9.366	23.4	10.16	50.0	-26.60	AV	L Line	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Over Limit (dB)	Detector	Line	Verdict
1*	0.162	51.64	11.11	65.36	-13.72	Peak	N	Pass
1**	0.162	33.61	11.11	55.36	-21.75	AV	N	Pass
2*	0.196	47.85	11.22	63.78	-15.93	Peak	N	Pass
2**	0.196	34.85	11.22	53.78	-18.93	AV	N	Pass
3*	0.242	43.03	11.31	62.03	-19.00	Peak	N	Pass
3**	0.242	32.82	11.31	52.03	-19.21	AV	N	Pass
4*	0.342	33.45	11.44	59.15	-25.70	Peak	N	Pass
4**	0.342	27.44	11.44	49.15	-21.71	AV	N	Pass
5*	0.482	37.75	11.16	56.30	-18.55	Peak	N	Pass
5**	0.482	32.70	11.16	46.30	-13.60	AV	N	Pass
6*	0.974	29.84	11.21	56.00	-26.16	Peak	N	Pass
6**	0.974	25.71	11.21	46.00	-20.29	AV	N	Pass