

## Appendix A: Test results

### A.1 RF Output Power

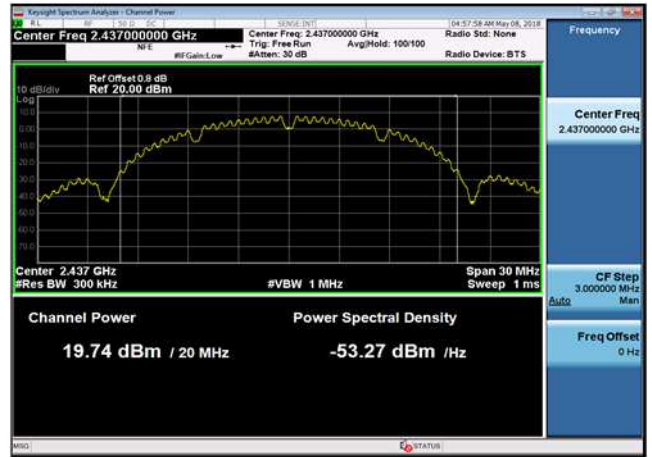
#### A.1.1 Test Result and Data

Mode	Test Frequency (MHz)	Ant	Max Power (dBm)	Limit (dBm)	EIRP (dBm)	Result
802.11b	2412	Ant0	18.63	30	22.33	Pass
802.11b	2437	Ant0	19.74	30	23.44	Pass
802.11b	2462	Ant0	<b>20.38</b>	30	<b>24.08</b>	Pass
802.11g	2412	Ant0	15.30	30	19.00	Pass
802.11g	2437	Ant0	15.88	30	19.58	Pass
802.11g	2462	Ant0	16.44	30	20.14	Pass
802.11n (HT20)	2412	Ant0	15.06	30	18.76	Pass
802.11n (HT20)	2437	Ant0	15.86	30	19.56	Pass
802.11n (HT20)	2462	Ant0	16.39	30	20.09	Pass
802.11n (HT40)	2422	Ant0	13.40	30	17.10	Pass
802.11n (HT40)	2437	Ant0	13.98	30	17.68	Pass
802.11n (HT40)	2452	Ant0	14.30	30	18.00	Pass

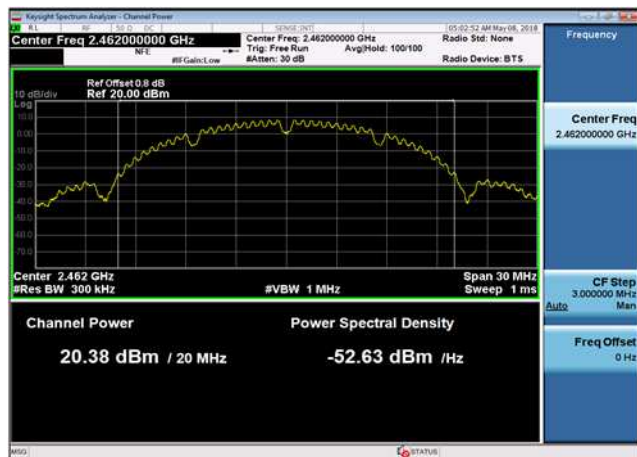
802.11b,2412MHz,Ant0



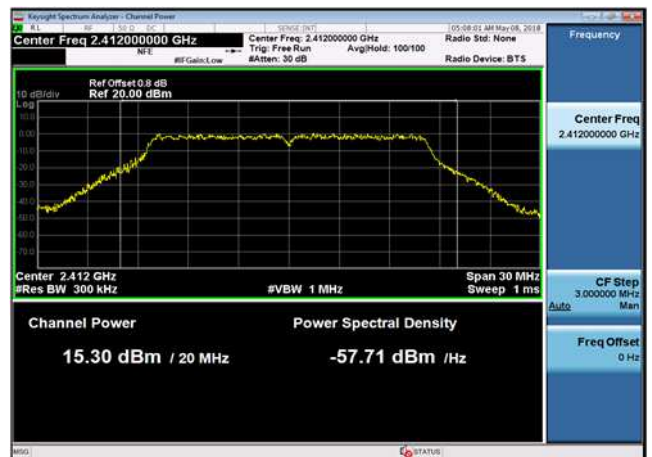
802.11b,2437MHz,Ant0



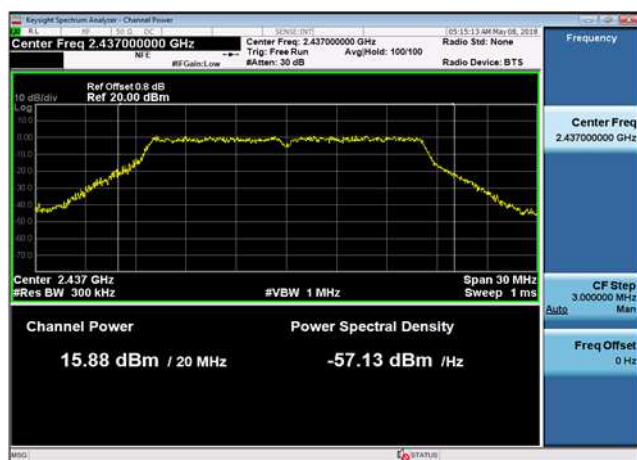
802.11b,2462MHz,Ant0



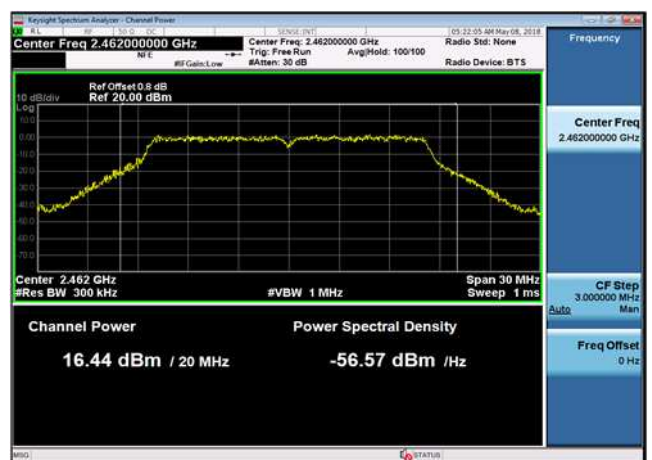
802.11g,2412MHz,Ant0



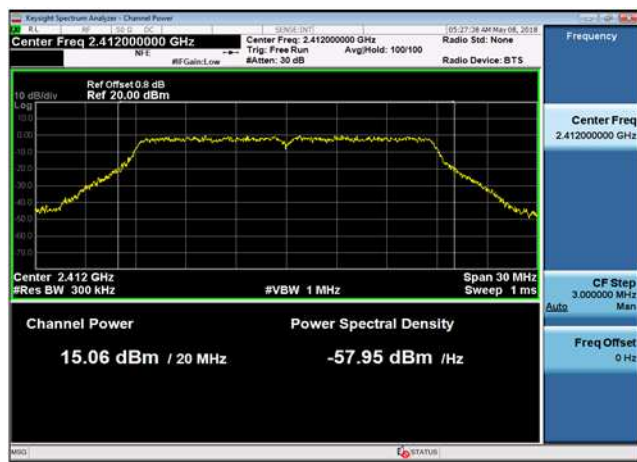
802.11g,2437MHz,Ant0



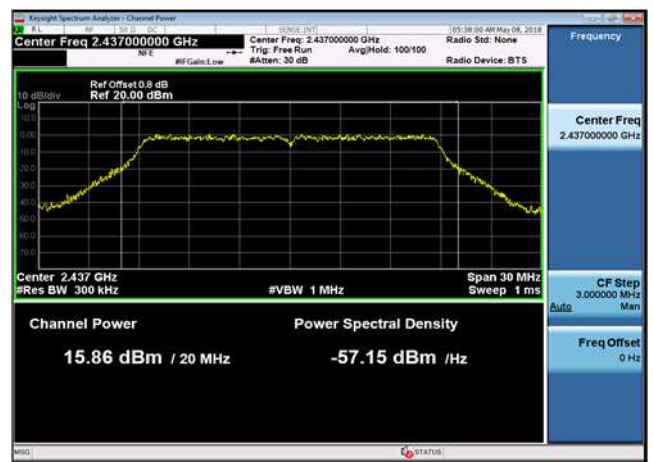
802.11g,2462MHz,Ant0



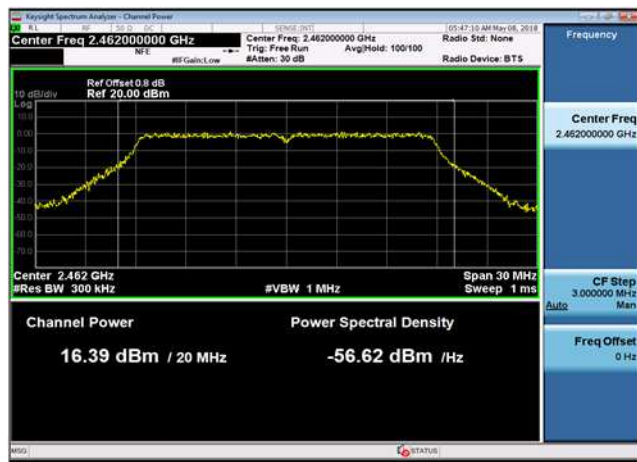
802.11n(HT20),2412MHz,Ant0



802.11n(HT20),2437MHz,Ant0



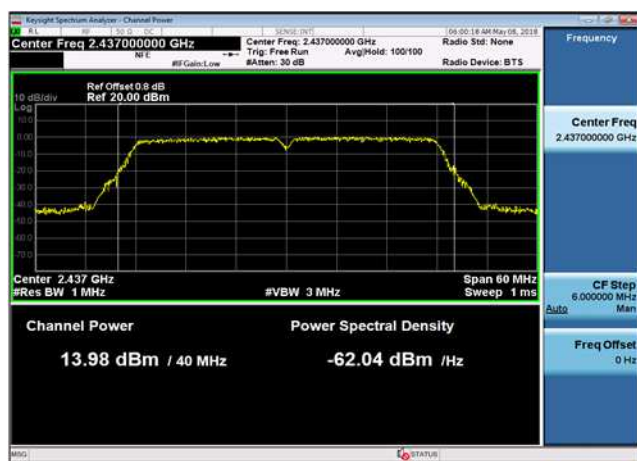
802.11n(HT20),2462MHz,Ant0



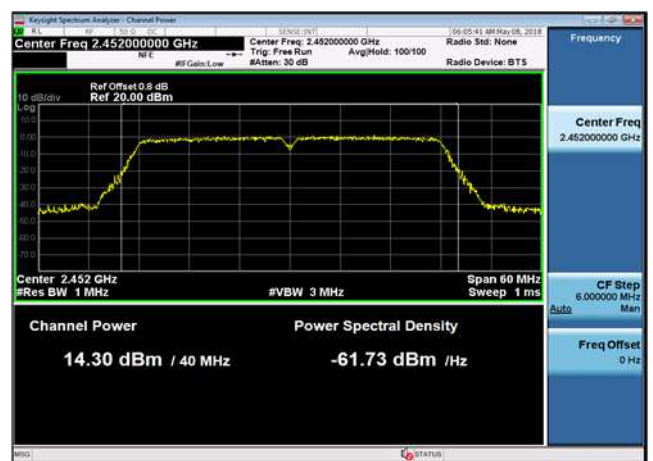
802.11n(HT40),2422MHz,Ant0



802.11n(HT40),2437MHz,Ant0



802.11n(HT40),2452MHz,Ant0



**TEST REPORT**

**A.2 6dB Down Bandwidth**

**A.2.1 Test Result and Data**

WLAN Occupied 6dB Bandwidth				
Mode	Test Frequency (MHz)	Ant	Occupied Bandwidth (MHz)	Result
802.11b	2412	Ant0	10.07	Pass
802.11b	2437	Ant0	10.09	Pass
802.11b	2462	Ant0	10.04	Pass
802.11g	2412	Ant0	16.59	Pass
802.11g	2437	Ant0	16.57	Pass
802.11g	2462	Ant0	16.58	Pass
802.11n (HT20)	2412	Ant0	17.82	Pass
802.11n (HT20)	2437	Ant0	17.84	Pass
802.11n (HT20)	2462	Ant0	17.85	Pass
802.11n (HT40)	2422	Ant0	36.48	Pass
802.11n (HT40)	2437	Ant0	36.48	Pass
802.11n (HT40)	2452	Ant0	36.49	Pass

802.11b,2412MHz,Ant0



802.11b,2437MHz,Ant0



802.11b,2462MHz,Ant0



802.11g,2412MHz,Ant0



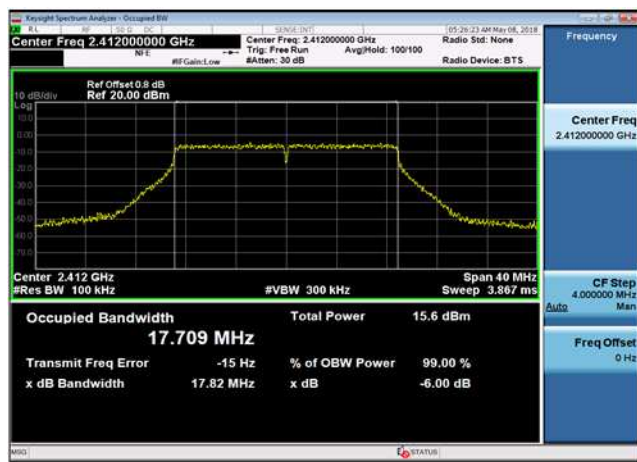
802.11g,2437MHz,Ant0



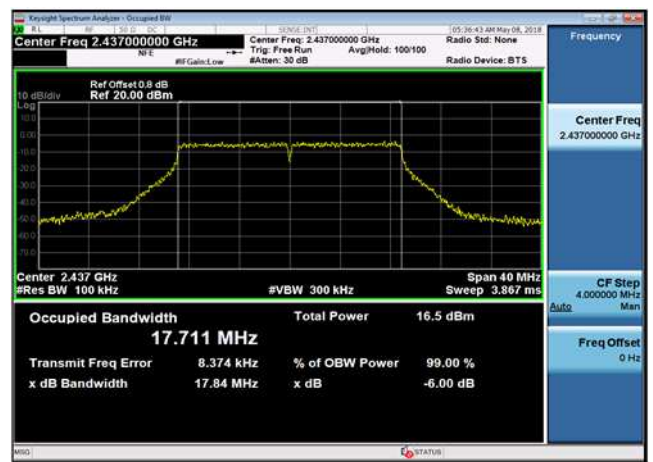
802.11g,2462MHz,Ant0



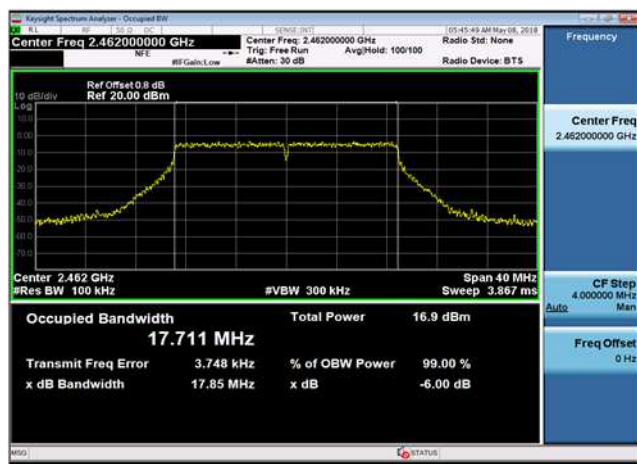
802.11n(HT20),2412MHz,Ant0



802.11n(HT20),2437MHz,Ant0



802.11n(HT20),2462MHz,Ant0



802.11n(HT40),2422MHz,Ant0



802.11n(HT40),2437MHz,Ant0



802.11n(HT40),2452MHz,Ant0

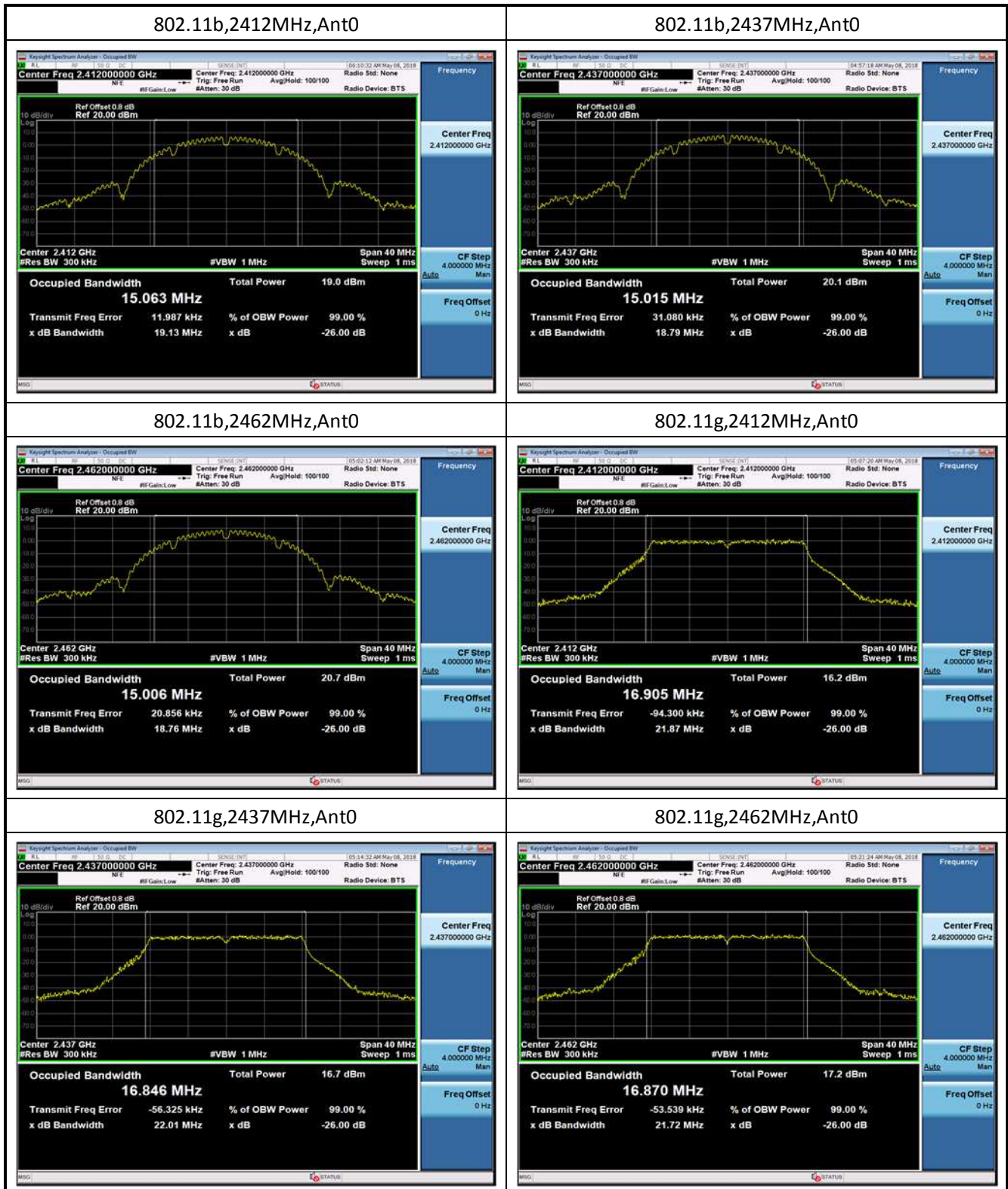


**TEST REPORT**

**A.3 99% BandWidth**

**A.3.1 Test Result and Data**

WLAN 99% Occupied Bandwidth				
Mode	Test Frequency (MHz)	Ant	99% Occupied Bandwidth (MHz)	Result
802.11b	2412	Ant0	15.063	Pass
802.11b	2437	Ant0	15.015	Pass
802.11b	2462	Ant0	15.006	Pass
802.11g	2412	Ant0	16.905	Pass
802.11g	2437	Ant0	16.846	Pass
802.11g	2462	Ant0	16.870	Pass
802.11n (HT20)	2412	Ant0	18.010	Pass
802.11n (HT20)	2437	Ant0	18.023	Pass
802.11n (HT20)	2462	Ant0	17.975	Pass
802.11n (HT40)	2422	Ant0	36.574	Pass
802.11n (HT40)	2437	Ant0	36.474	Pass
802.11n (HT40)	2452	Ant0	36.480	Pass





## TEST REPORT

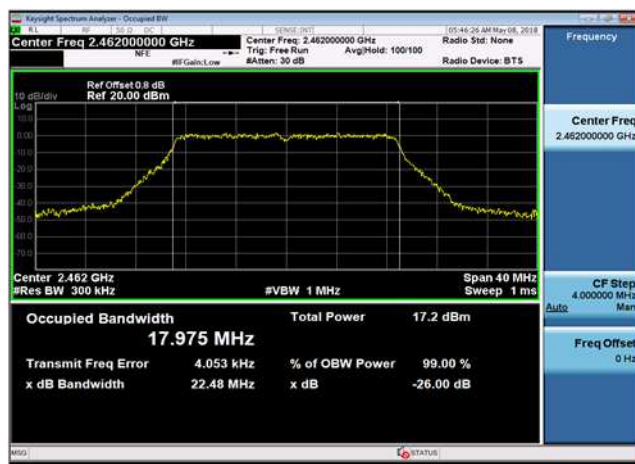
802.11n(HT20),2412MHz,Ant0



802.11n(HT20),2437MHz,Ant0



802.11n(HT20),2462MHz,Ant0



802.11n(HT40),2422MHz,Ant0



802.11n(HT40),2437MHz,Ant0



802.11n(HT40),2452MHz,Ant0



**TEST REPORT**

**A.4 Power Spectral Density**

**A.4.1 Test Result and Data**

Mode	Test Frequency (MHz)	Ant	PSD (dBm)	RBW (kHz)	Limit (dBm)	Result
802.11b	2412	Ant0	4.796	100	8	Pass
802.11b	2437	Ant0	5.913	100	8	Pass
802.11b	2462	Ant0	6.563	100	8	Pass
802.11g	2412	Ant0	-4.673	100	8	Pass
802.11g	2437	Ant0	-3.985	100	8	Pass
802.11g	2462	Ant0	-3.485	100	8	Pass
802.11n (HT20)	2412	Ant0	-4.716	100	8	Pass
802.11n (HT20)	2437	Ant0	-4.153	100	8	Pass
802.11n (HT20)	2462	Ant0	-3.311	100	8	Pass
802.11n (HT40)	2422	Ant0	-9.425	100	8	Pass
802.11n (HT40)	2437	Ant0	-8.511	100	8	Pass
802.11n (HT40)	2452	Ant0	-8.370	100	8	Pass

802.11b,2412MHz,Ant0



802.11b,2437MHz,Ant0



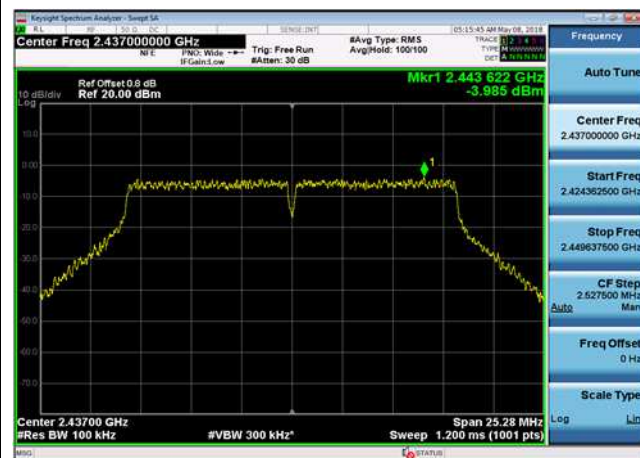
802.11b,2462MHz,Ant0



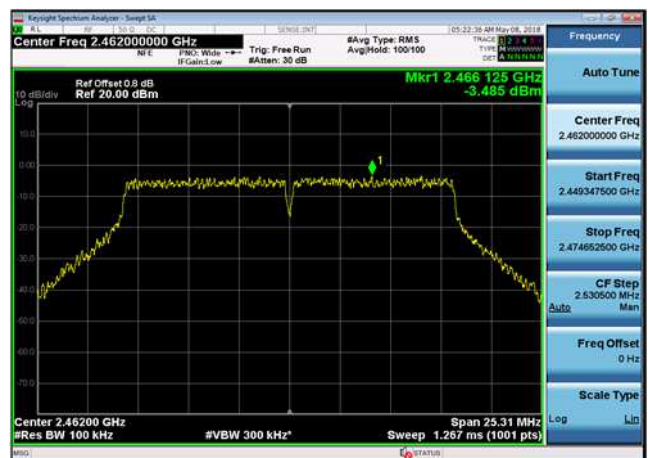
802.11g,2412MHz,Ant0



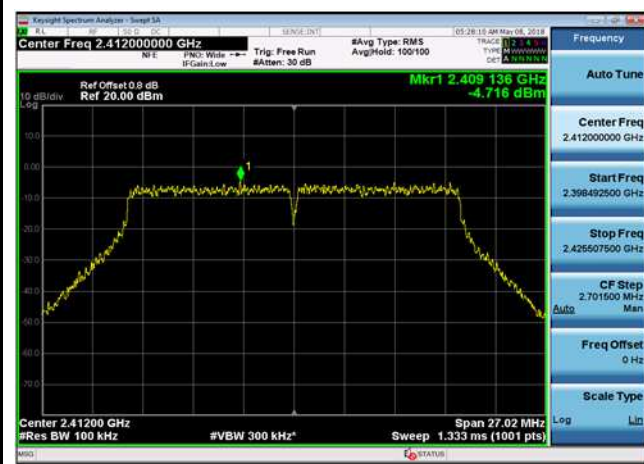
802.11g,2437MHz,Ant0



802.11g,2462MHz,Ant0



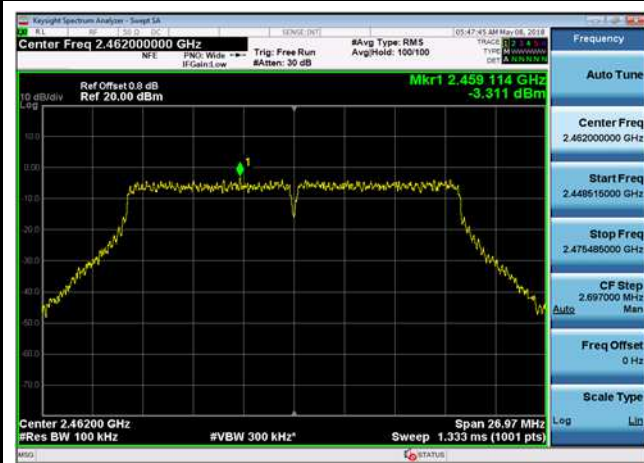
802.11n(HT20),2412MHz,Ant0



802.11n(HT20),2437MHz,Ant0



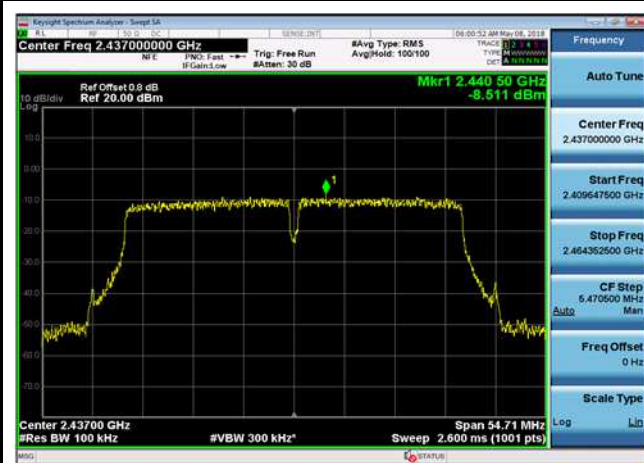
802.11n(HT20),2462MHz,Ant0



802.11n(HT40),2422MHz,Ant0



802.11n(HT40),2437MHz,Ant0



802.11n(HT40),2452MHz,Ant0



TEST REPORT

A.5 Transmitter Spurious Emission

A.5.1 Test Result and Data

WLAN Transmitter Spurious Emission						
Mode	Test Frequency (MHz)	Ant	Plot No.	Frequency Range	Emission (dBm)	Result
802.11b	2412	Ant0	1	Reference Level	4.96	Pass
802.11b	2412	Ant0	2	Band Edge	-31.14	Pass
802.11b	2412	Ant0	3	30MHz~2310MHz	-57.31	Pass
802.11b	2412	Ant0	4	2500MHz~5000MHz	-53.84	Pass
802.11b	2412	Ant0	5	5000MHz~25000MHz	-43.10	Pass
802.11b	2437	Ant0	1	Reference Level	6.08	Pass
802.11b	2437	Ant0	2	Band Edge	-54.47	Pass
802.11b	2437	Ant0	3	30MHz~2310MHz	-56.68	Pass
802.11b	2437	Ant0	4	2500MHz~5000MHz	-50.91	Pass
802.11b	2437	Ant0	5	5000MHz~25000MHz	-43.54	Pass
802.11b	2462	Ant0	1	Reference Level	6.63	Pass
802.11b	2462	Ant0	2	Band Edge	-51.52	Pass
802.11b	2462	Ant0	3	30MHz~2310MHz	-57.30	Pass
802.11b	2462	Ant0	4	2500MHz~5000MHz	-48.02	Pass
802.11b	2462	Ant0	5	5000MHz~25000MHz	-43.18	Pass
802.11g	2412	Ant0	1	Reference Level	-4.54	Pass
802.11g	2412	Ant0	2	Band Edge	-38.22	Pass
802.11g	2412	Ant0	3	30MHz~2310MHz	-57.34	Pass
802.11g	2412	Ant0	4	2500MHz~5000MHz	-52.12	Pass
802.11g	2412	Ant0	5	5000MHz~25000MHz	-43.15	Pass
802.11g	2437	Ant0	1	Reference Level	-3.78	Pass
802.11g	2437	Ant0	2	Band Edge	-53.54	Pass
802.11g	2437	Ant0	3	30MHz~2310MHz	-56.01	Pass
802.11g	2437	Ant0	4	2500MHz~5000MHz	-51.47	Pass
802.11g	2437	Ant0	5	5000MHz~25000MHz	-43.65	Pass
802.11g	2462	Ant0	1	Reference Level	-3.26	Pass

TEST REPORT

802.11g	2462	Ant0	2	Band Edge	-52.43	Pass
802.11g	2462	Ant0	3	30MHz~2310MHz	-57.59	Pass
802.11g	2462	Ant0	4	2500MHz~5000MHz	-52.76	Pass
802.11g	2462	Ant0	5	5000MHz~25000MHz	-43.09	Pass
802.11n (HT20)	2412	Ant0	1	Reference Level	-4.29	Pass
802.11n (HT20)	2412	Ant0	2	Band Edge	-37.39	Pass
802.11n (HT20)	2412	Ant0	3	30MHz~2310MHz	-57.32	Pass
802.11n (HT20)	2412	Ant0	4	2500MHz~5000MHz	-52.60	Pass
802.11n (HT20)	2412	Ant0	5	5000MHz~25000MHz	-43.96	Pass
802.11n (HT20)	2437	Ant0	1	Reference Level	-3.8	Pass
802.11n (HT20)	2437	Ant0	2	Band Edge	-53.55	Pass
802.11n (HT20)	2437	Ant0	3	30MHz~2310MHz	-55.47	Pass
802.11n (HT20)	2437	Ant0	4	2500MHz~5000MHz	-52.27	Pass
802.11n (HT20)	2437	Ant0	5	5000MHz~25000MHz	-43.94	Pass
802.11n (HT20)	2462	Ant0	1	Reference Level	-3.17	Pass
802.11n (HT20)	2462	Ant0	2	Band Edge	-50.73	Pass
802.11n (HT20)	2462	Ant0	3	30MHz~2310MHz	-55.67	Pass
802.11n (HT20)	2462	Ant0	4	2500MHz~5000MHz	-52.29	Pass
802.11n (HT20)	2462	Ant0	5	5000MHz~25000MHz	-44.25	Pass
802.11n (HT40)	2422	Ant0	1	Reference Level	-8.67	Pass
802.11n (HT40)	2422	Ant0	2	Band Edge	-41.23	Pass
802.11n (HT40)	2422	Ant0	3	30MHz~2310MHz	-54.21	Pass
802.11n (HT40)	2422	Ant0	4	2500MHz~5000MHz	-52.67	Pass
802.11n (HT40)	2422	Ant0	5	5000MHz~25000MHz	-44.27	Pass
802.11n (HT40)	2437	Ant0	1	Reference Level	-7.77	Pass
802.11n (HT40)	2437	Ant0	2	Band Edge	-52.95	Pass
802.11n (HT40)	2437	Ant0	3	30MHz~2310MHz	-54.73	Pass
802.11n (HT40)	2437	Ant0	4	2500MHz~5000MHz	-53.32	Pass
802.11n (HT40)	2437	Ant0	5	5000MHz~25000MHz	-44.03	Pass
802.11n (HT40)	2452	Ant0	1	Reference Level	-7.4	Pass
802.11n (HT40)	2452	Ant0	2	Band Edge	-49.55	Pass
802.11n (HT40)	2452	Ant0	3	30MHz~2310MHz	-54.40	Pass

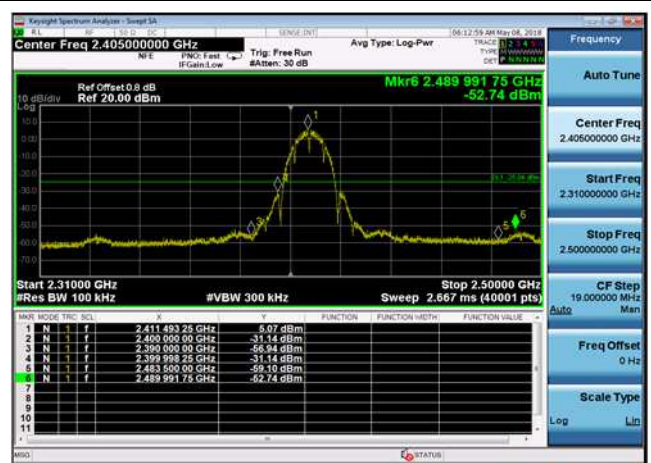
TEST REPORT

802.11n (HT40)	2452	Ant0	4	2500MHz~5000MHz	-52.27	Pass
802.11n (HT40)	2452	Ant0	5	5000MHz~25000MHz	-44.03	Pass

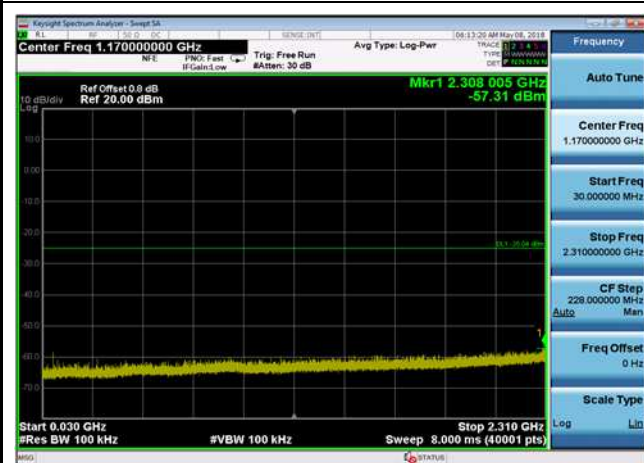
802.11b,2412MHz,Ant0,Plot 1,Reference Level



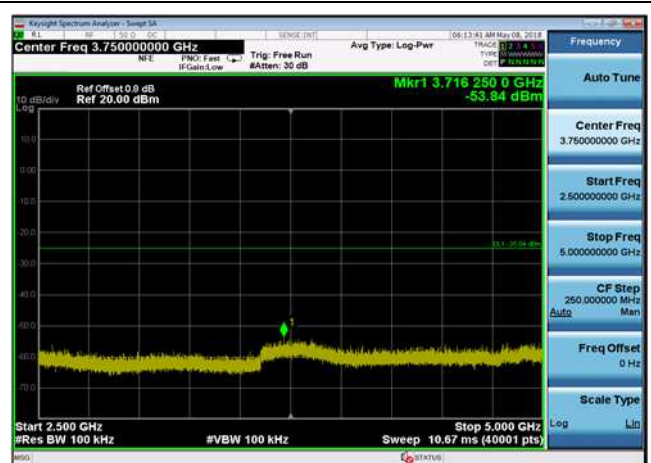
802.11b,2412MHz,Ant0,Plot 2,Band Edge



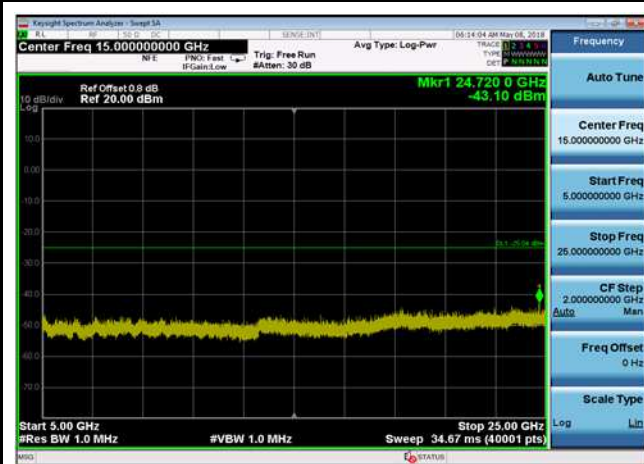
802.11b,2412MHz,Ant0,Plot 3,30MHz~231 OMHz



802.11b,2412MHz,Ant0,Plot 4,2500MHz~5 000MHz



802.11b,2412MHz,Ant0,Plot 5,5000MHz~2 5000MHz

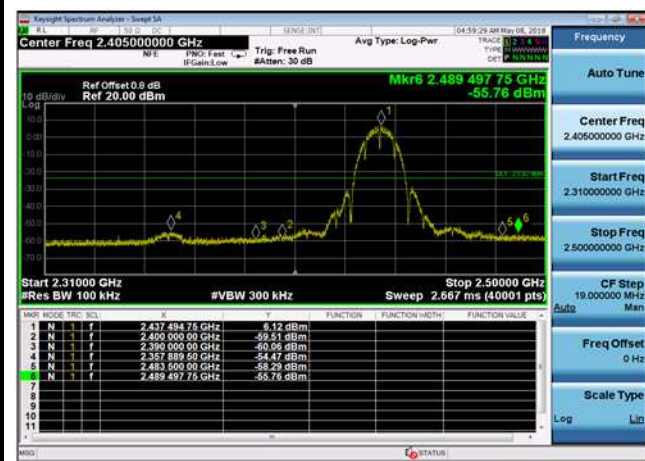


802.11b,2437MHz,Ant0,Plot 1,Reference Level

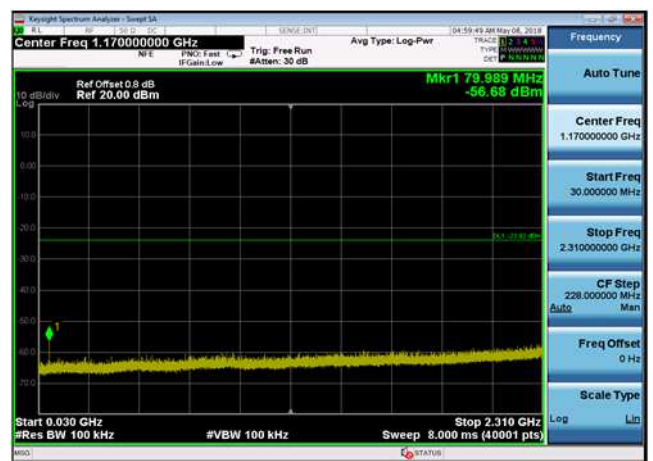




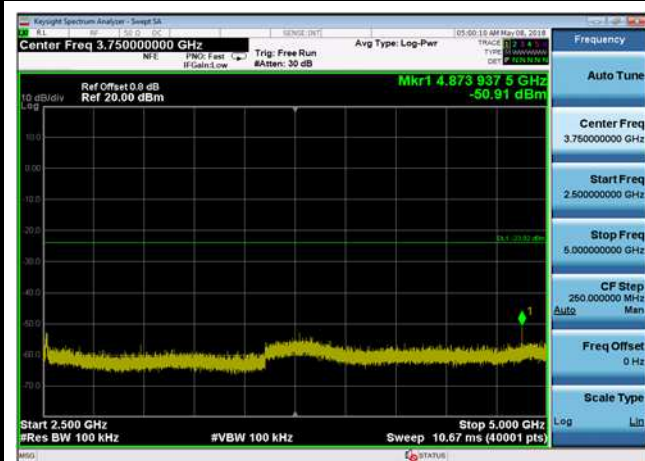
802.11b,2437MHz,Ant0,Plot 2,Band  
Edge



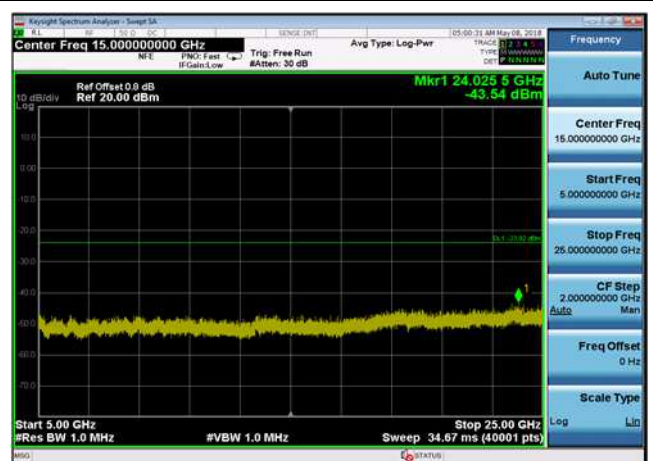
802.11b,2437MHz,Ant0,Plot 3,30MHz~231  
0MHz



802.11b,2437MHz,Ant0,Plot 4,2500MHz~5  
000MHz



802.11b,2437MHz,Ant0,Plot 5,5000MHz~2  
5000MHz



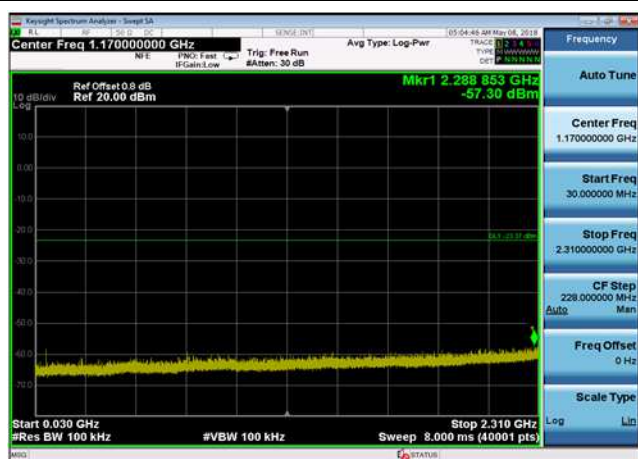
802.11b,2462MHz,Ant0,Plot 1,Reference  
Level



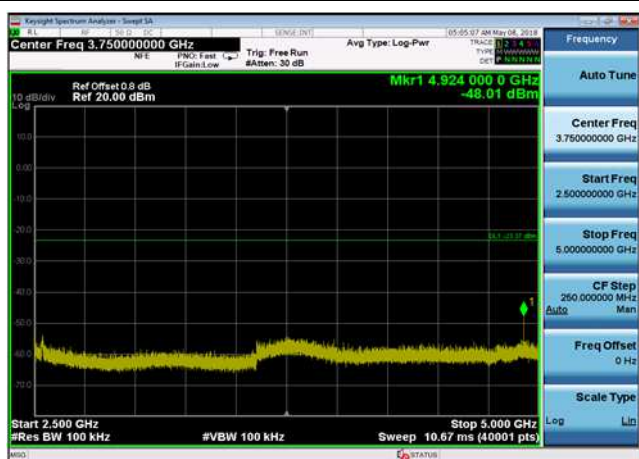
802.11b,2462MHz,Ant0,Plot 2,Band  
Edge



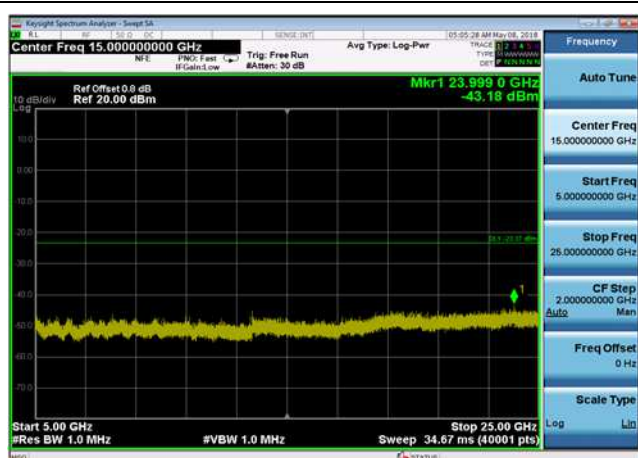
802.11b,2462MHz,Ant0,Plot 3,30MHz~231  
0MHz



802.11b,2462MHz,Ant0,Plot 4,2500MHz~5  
000MHz



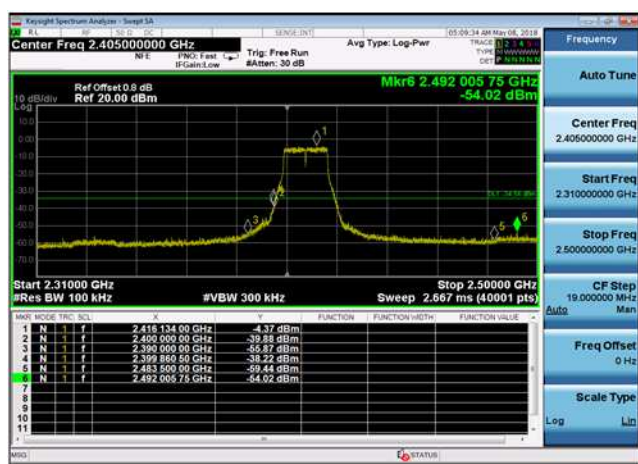
802.11b,2462MHz,Ant0,Plot 5,5000MHz~2  
5000MHz



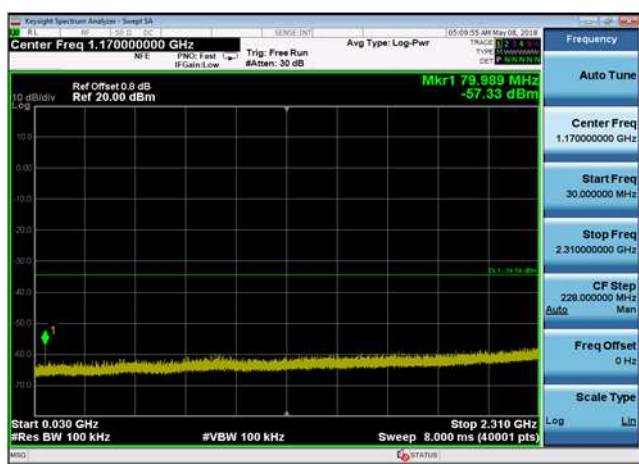
802.11g,2412MHz,Ant0,Plot 1,Reference  
Level



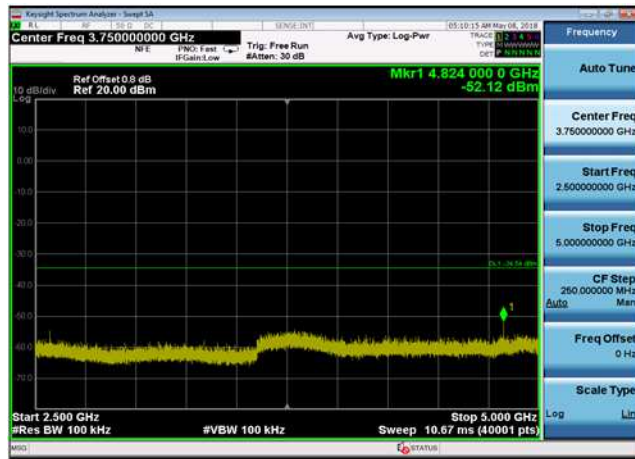
802.11g,2412MHz,Ant0,Plot 2,Band  
Edge



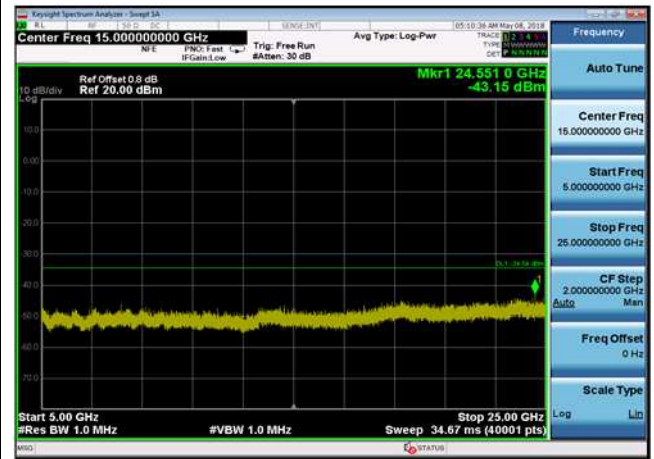
802.11g,2412MHz,Ant0,Plot 3,30MHz~231  
0MHz



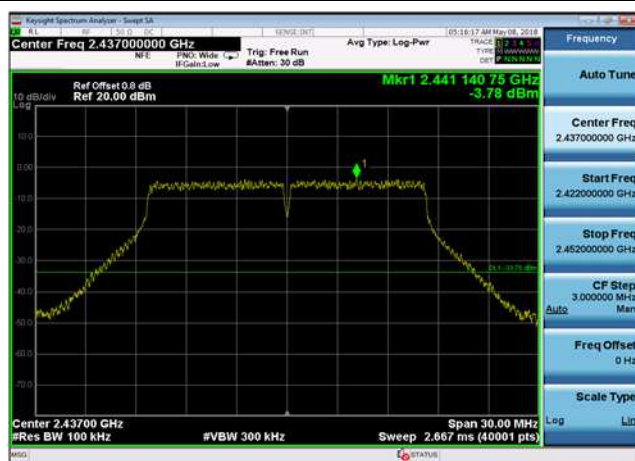
802.11g,2412MHz,Ant0,Plot 4,2500MHz~5000MHz



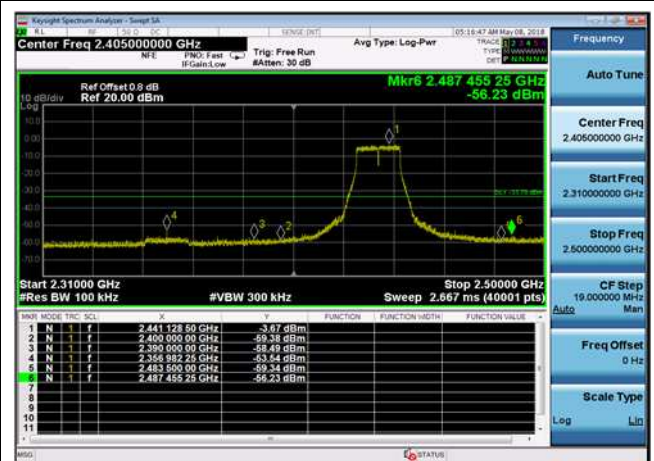
802.11g,2412MHz,Ant0,Plot 5,5000MHz~25000MHz



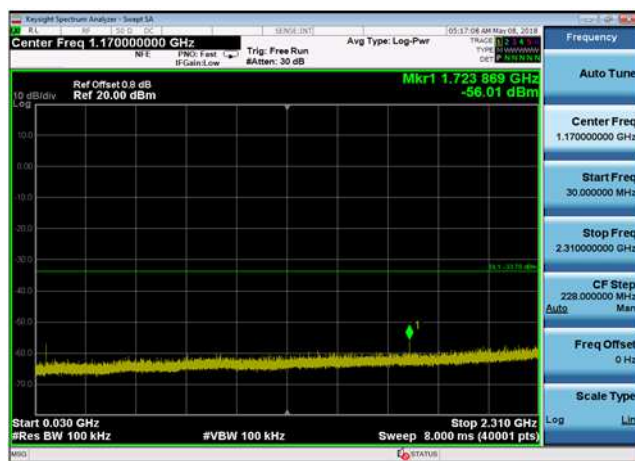
802.11g,2437MHz,Ant0,Plot 1,Reference Level



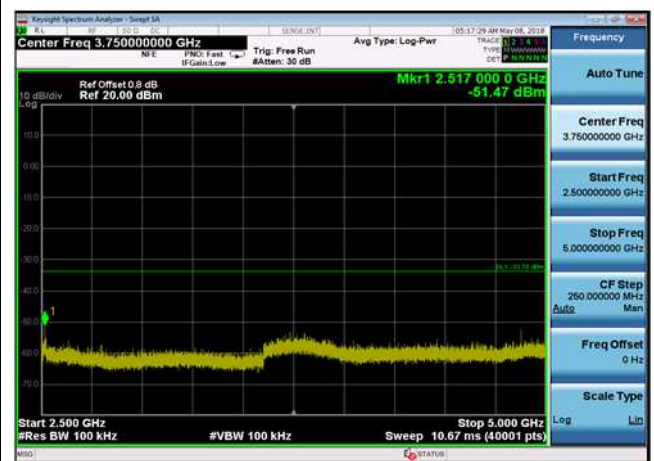
802.11g,2437MHz,Ant0,Plot 2,Band Edge



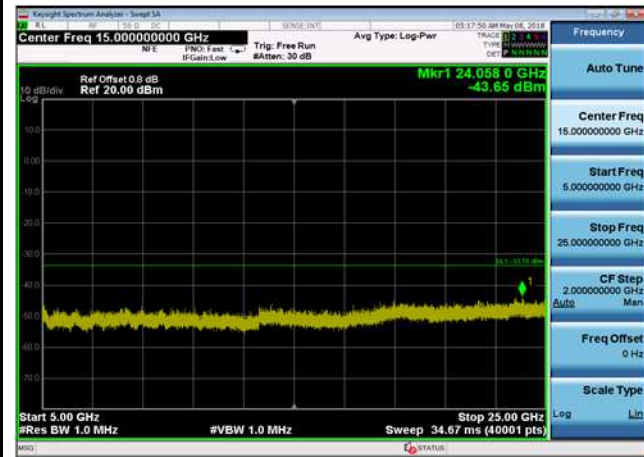
802.11g,2437MHz,Ant0,Plot 3,30MHz~2310MHz



802.11g,2437MHz,Ant0,Plot 4,2500MHz~5000MHz



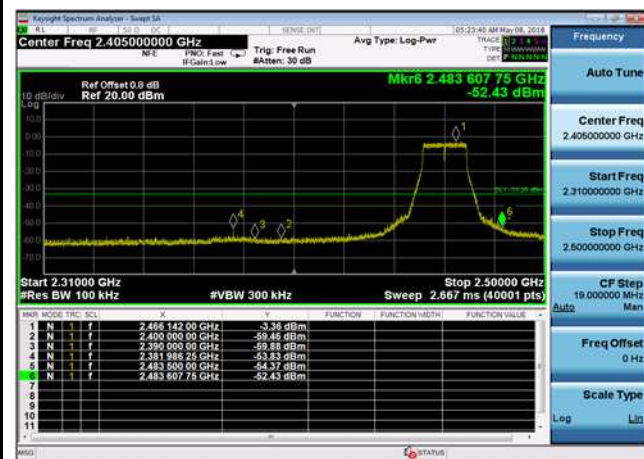
802.11g,2437MHz,Ant0,Plot 5,5000MHz~2  
5000MHz



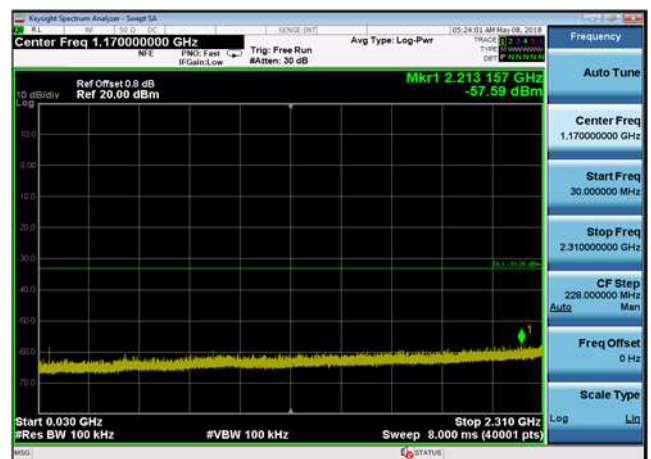
802.11g,2462MHz,Ant0,Plot 1,Reference  
Level



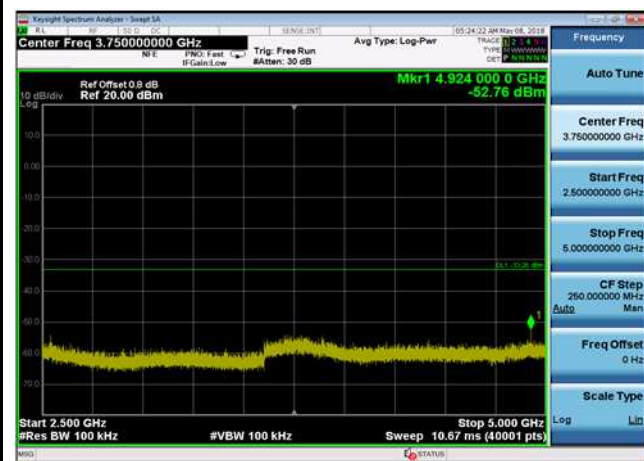
802.11g,2462MHz,Ant0,Plot 2,Band  
Edge



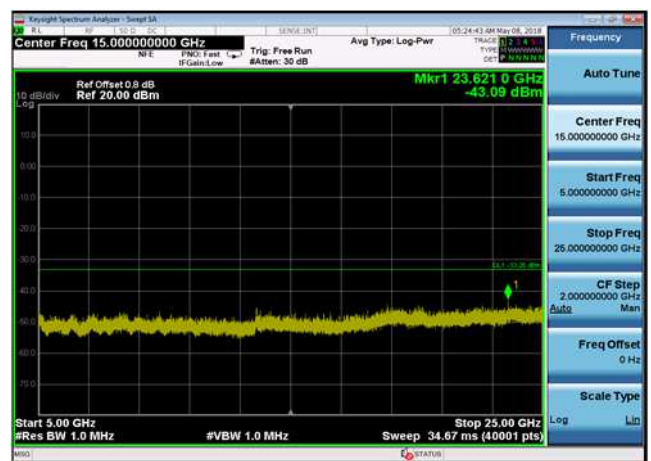
802.11g,2462MHz,Ant0,Plot 3,30MHz~231  
0MHz



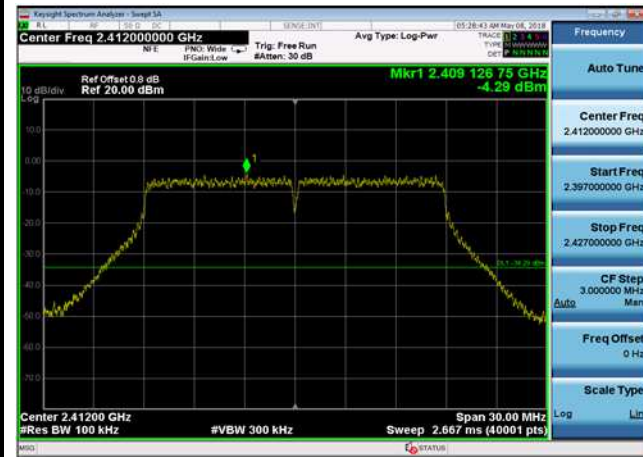
802.11g,2462MHz,Ant0,Plot 4,2500MHz~5  
000MHz



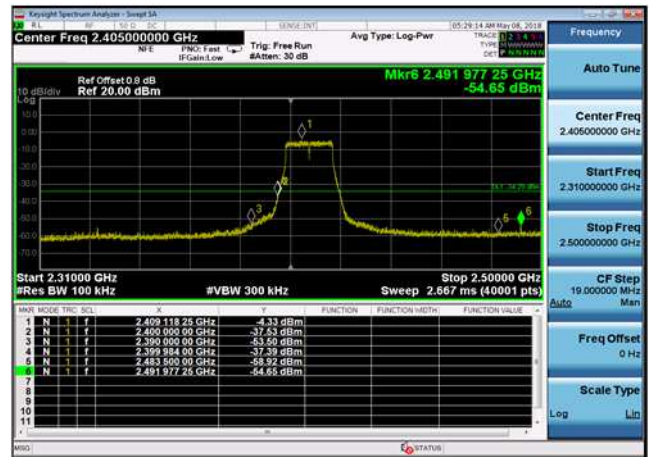
802.11g,2462MHz,Ant0,Plot 5,5000MHz~2  
5000MHz



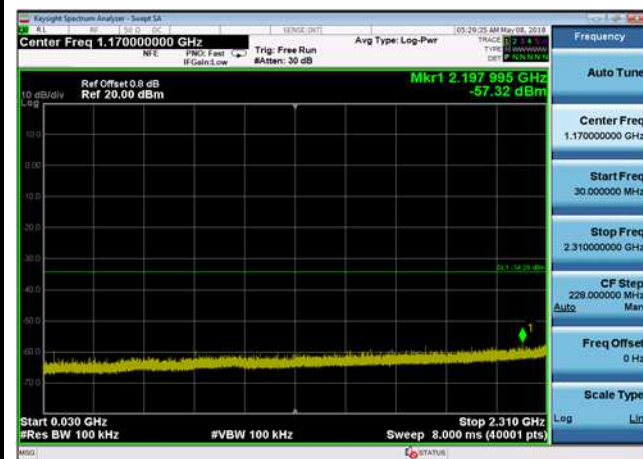
802.11n(HT20),2412MHz,Ant0,Plot  
1,Reference Level



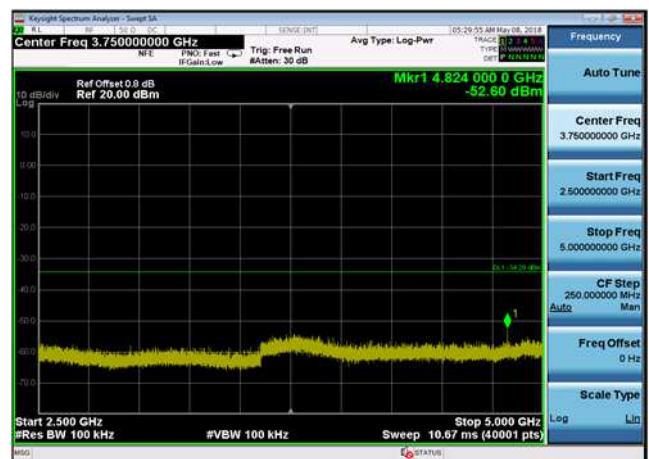
802.11n(HT20),2412MHz,Ant0,Plot  
2,Band Edge



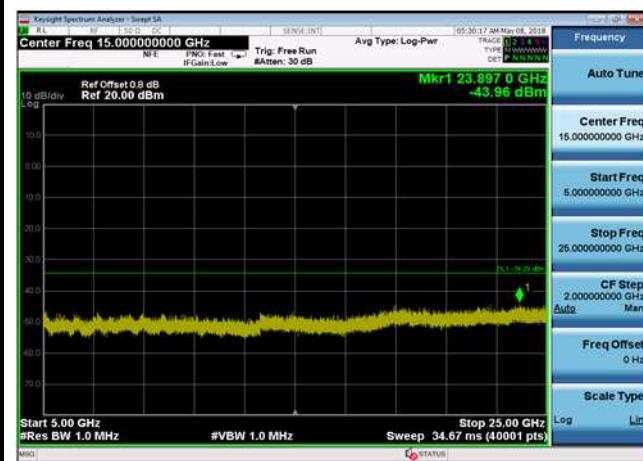
802.11n(HT20),2412MHz,Ant0,Plot  
3,30MHz~2310MHz



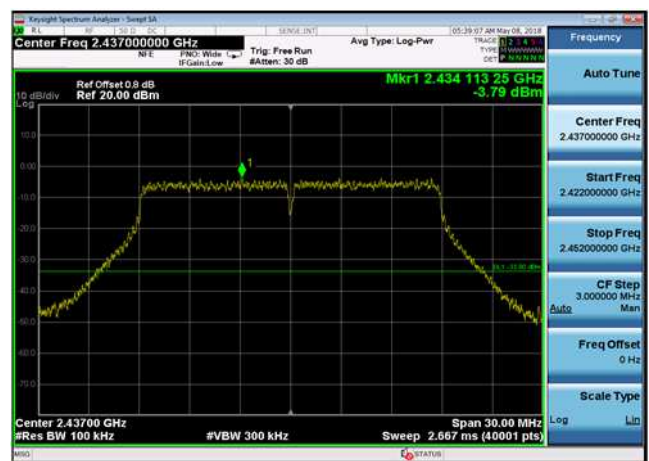
802.11n(HT20),2412MHz,Ant0,Plot  
4,2500MHz~5000MHz



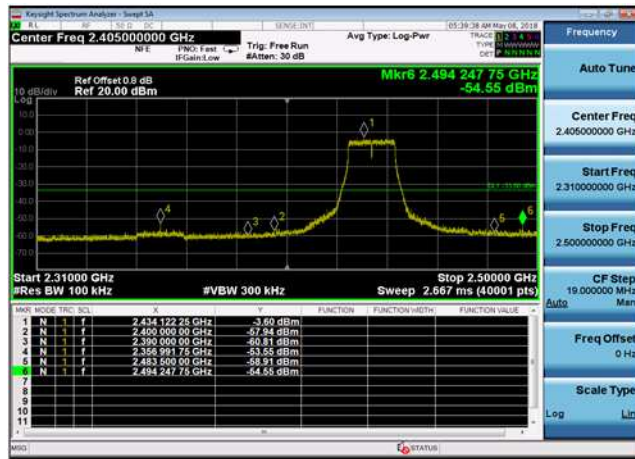
802.11n(HT20),2412MHz,Ant0,Plot  
5,5500MHz~25000MHz



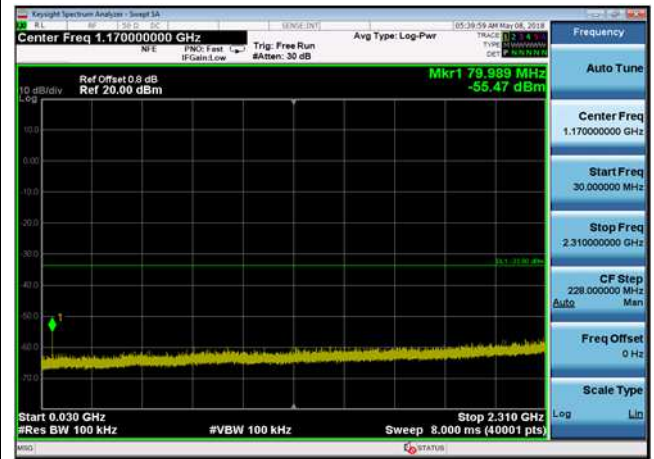
802.11n(HT20),2437MHz,Ant0,Plot  
1,Reference Level



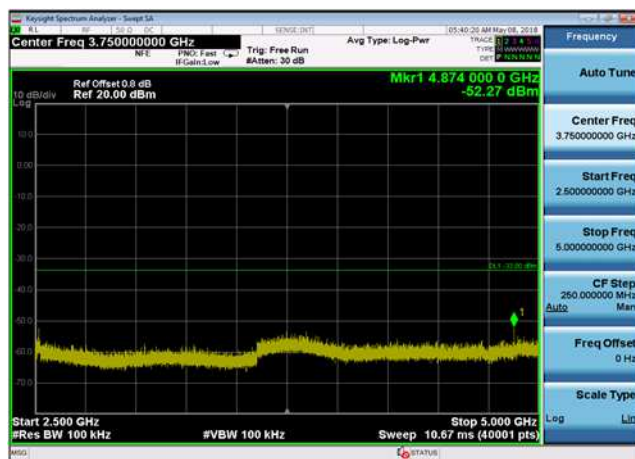
802.11n(HT20),2437MHz,Ant0,Plot  
2,Band Edge



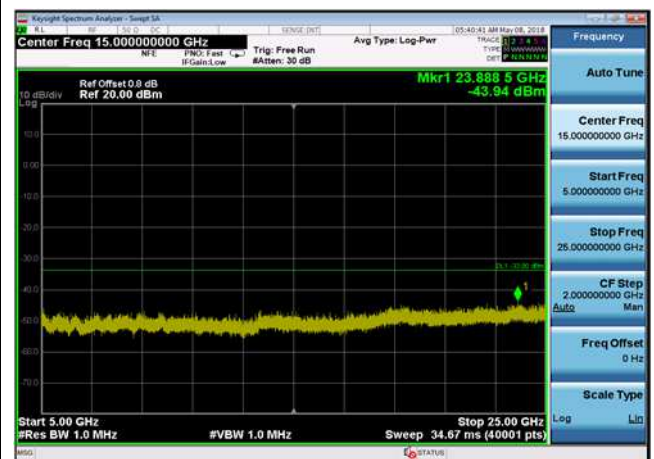
802.11n(HT20),2437MHz,Ant0,Plot  
3,30MHz~2310MHz



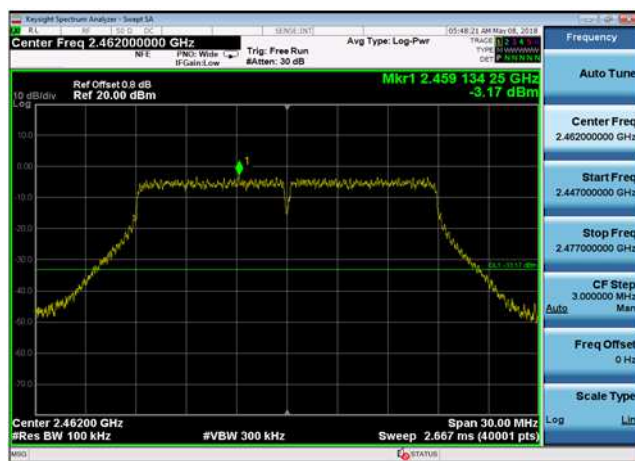
802.11n(HT20),2437MHz,Ant0,Plot  
4,2500MHz~5000MHz



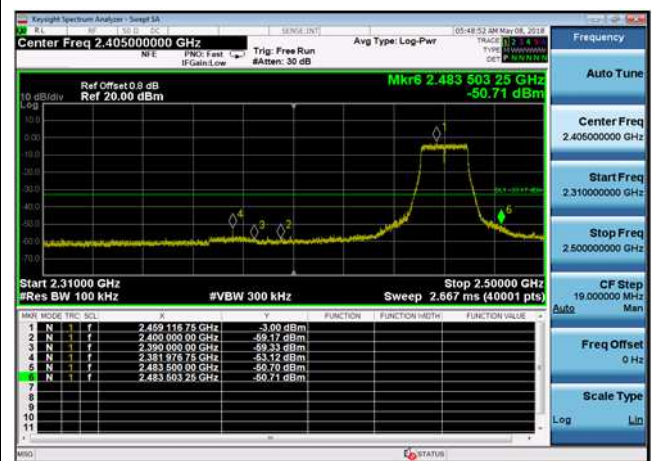
802.11n(HT20),2437MHz,Ant0,Plot  
5,5500MHz~25000MHz



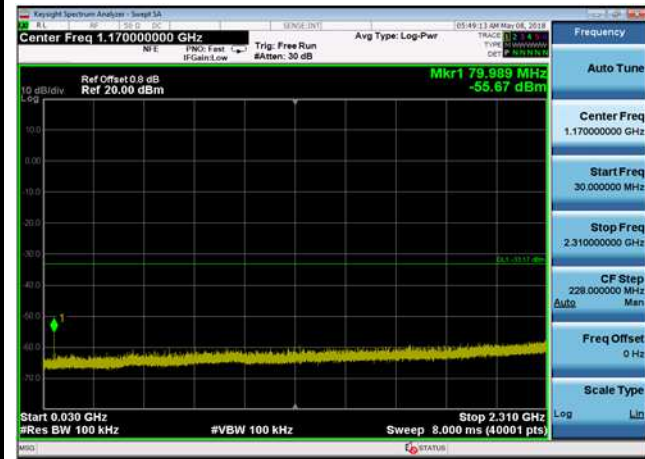
802.11n(HT20),2462MHz,Ant0,Plot  
1,Reference Level



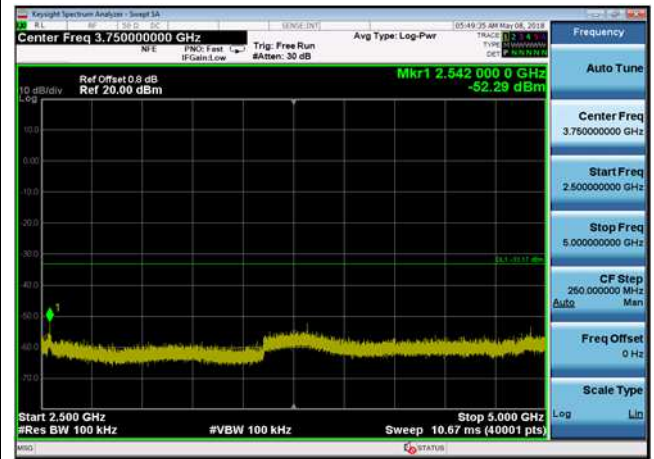
802.11n(HT20),2462MHz,Ant0,Plot  
2,Band Edge



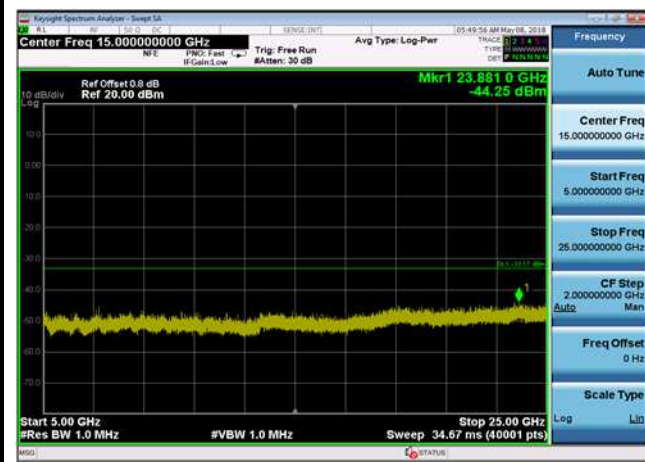
802.11n(HT20),2462MHz,Ant0,Plot  
3,30MHz~2310MHz



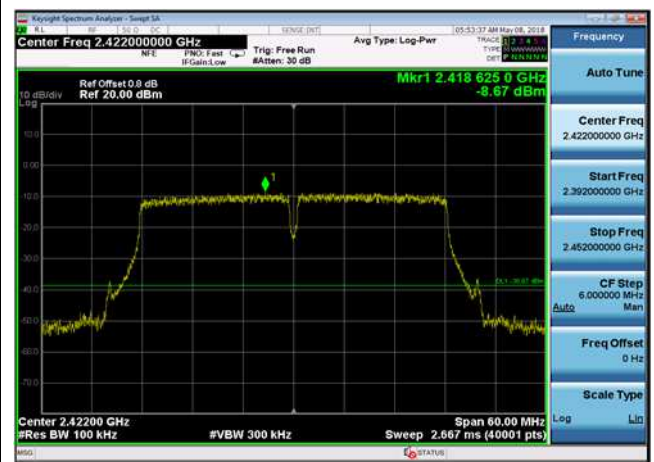
802.11n(HT20),2462MHz,Ant0,Plot  
4,2500MHz~5000MHz



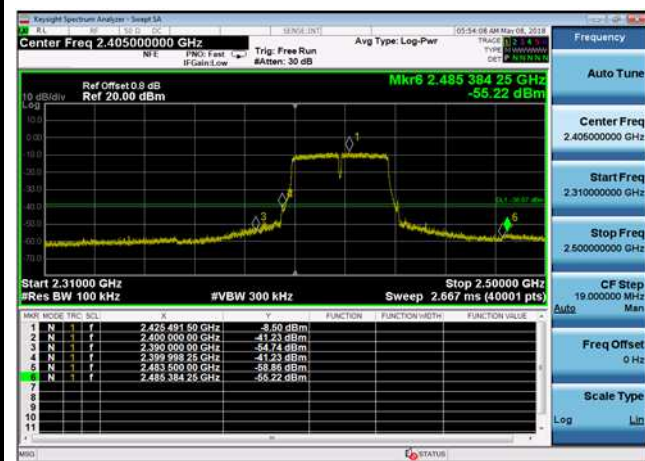
802.11n(HT20),2462MHz,Ant0,Plot  
5,5500MHz~25000MHz



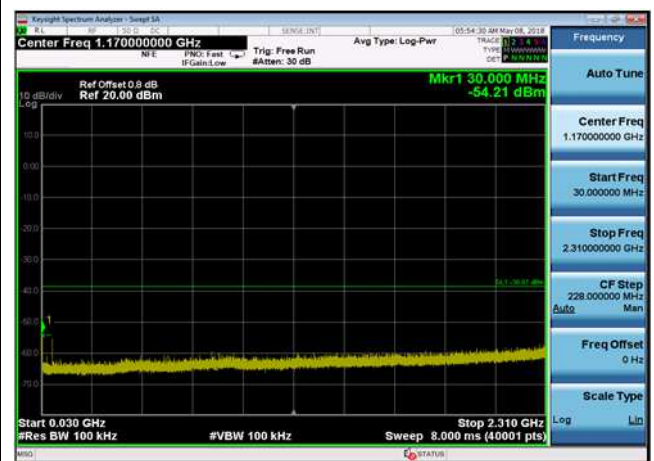
802.11n(HT40),2422MHz,Ant0,Plot  
1,Reference Level



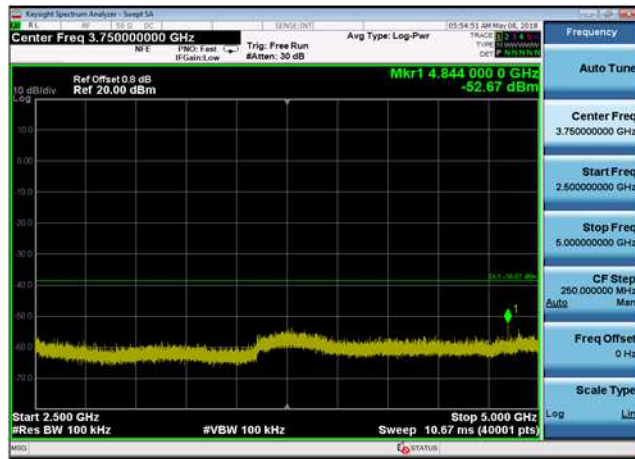
802.11n(HT40),2422MHz,Ant0,Plot  
2,Band Edge



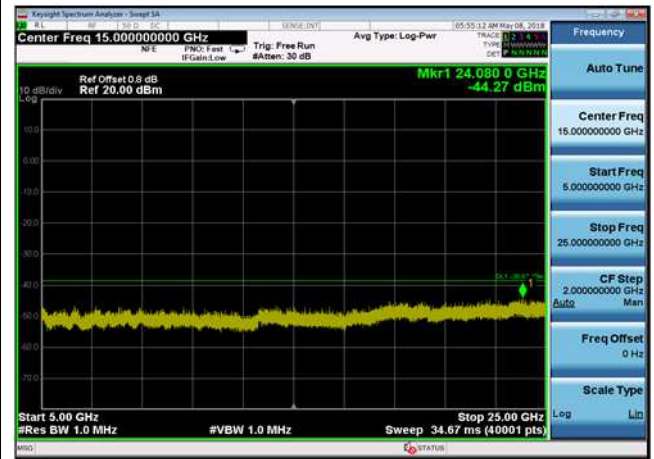
802.11n(HT40),2422MHz,Ant0,Plot  
3,30MHz~2310MHz



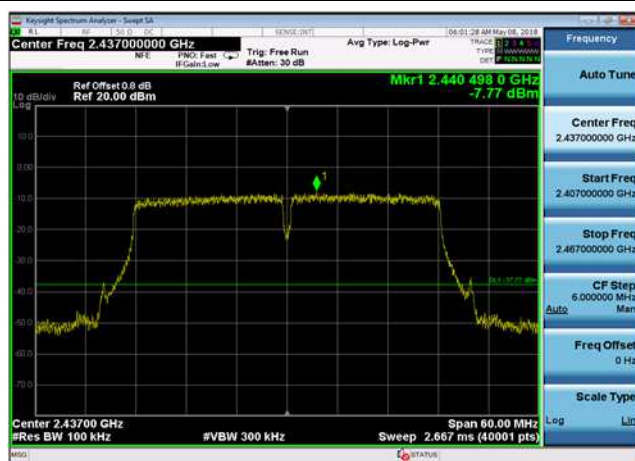
802.11n(HT40),2422MHz,Ant0,Plot  
4,2500MHz~5000MHz



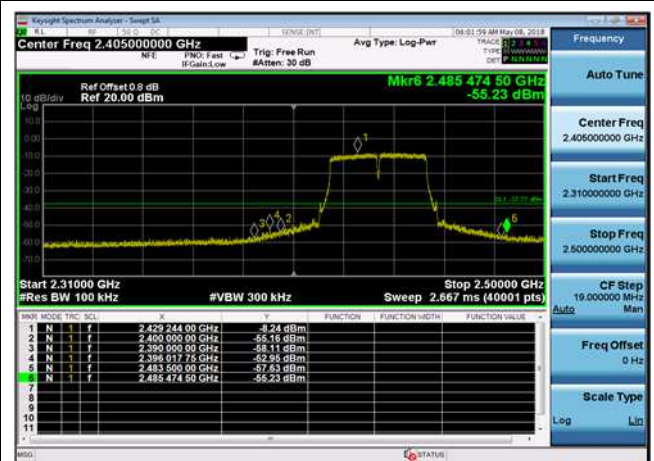
802.11n(HT40),2422MHz,Ant0,Plot  
5,5000MHz~25000MHz



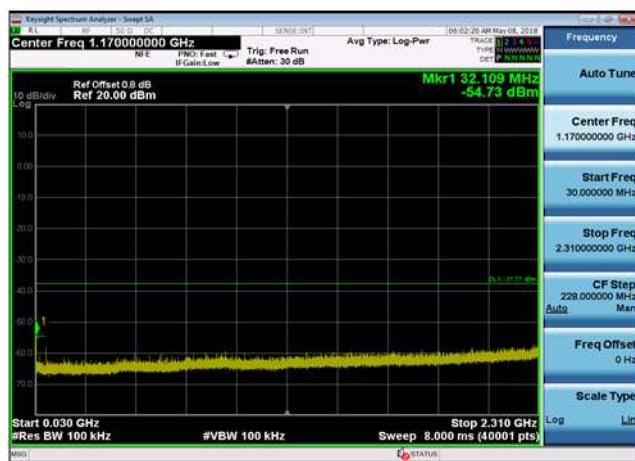
802.11n(HT40),2437MHz,Ant0,Plot  
1,Reference Level



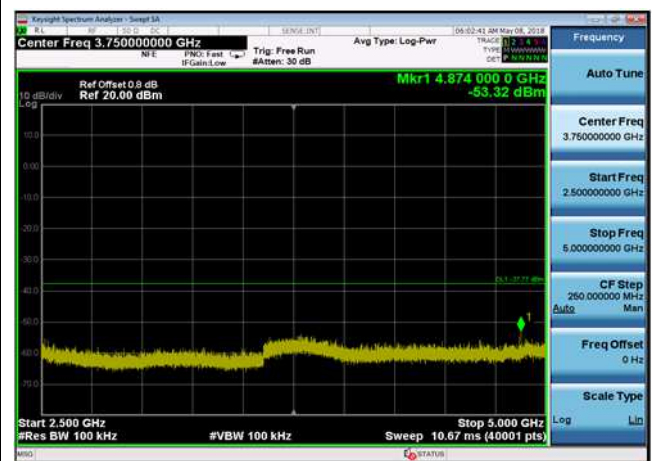
802.11n(HT40),2437MHz,Ant0,Plot  
2,Band Edge



802.11n(HT40),2437MHz,Ant0,Plot  
3,30MHz~2310MHz

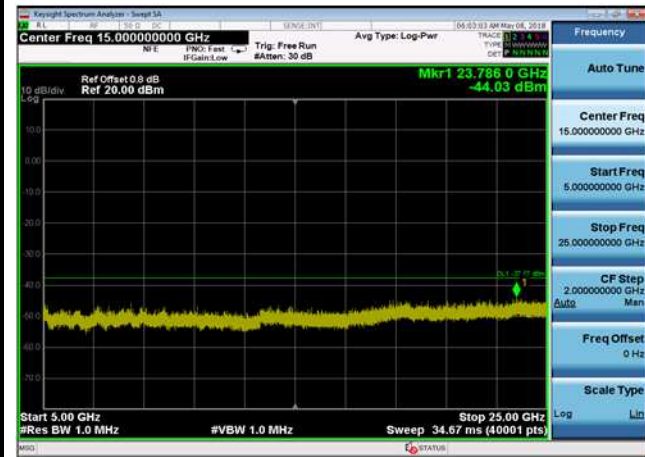


802.11n(HT40),2437MHz,Ant0,Plot  
4,2500MHz~5000MHz





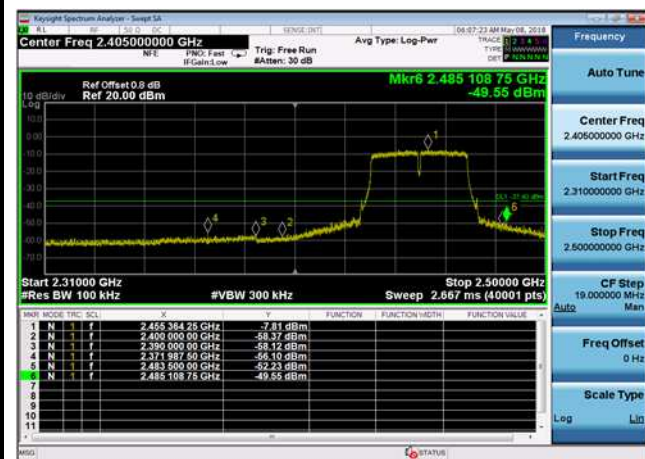
802.11n(HT40),2437MHz,Ant0,Plot  
5,5000MHz~25000MHz



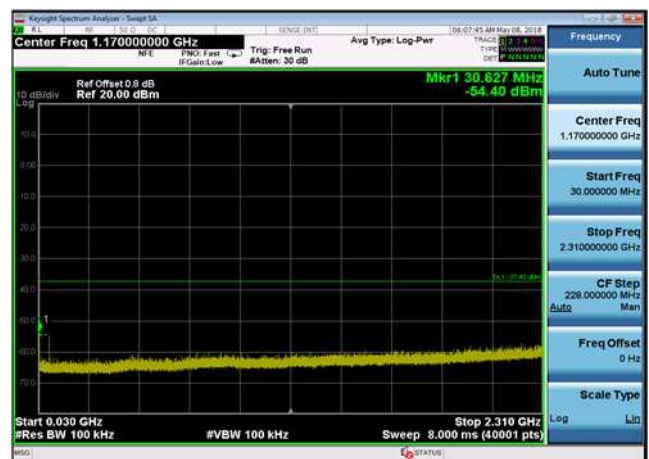
802.11n(HT40),2452MHz,Ant0,Plot  
1,Reference Level



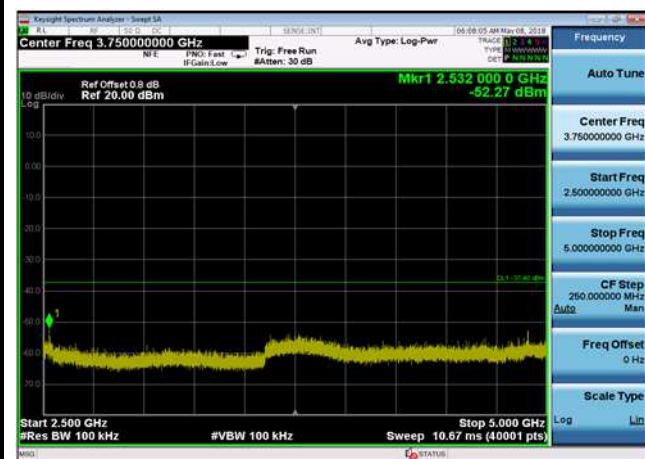
802.11n(HT40),2452MHz,Ant0,Plot  
2,Band Edge



802.11n(HT40),2452MHz,Ant0,Plot  
3,30MHz~2310MHz



802.11n(HT40),2452MHz,Ant0,Plot  
4,2500MHz~5000MHz



802.11n(HT40),2452MHz,Ant0,Plot  
5,5000MHz~25000MHz

