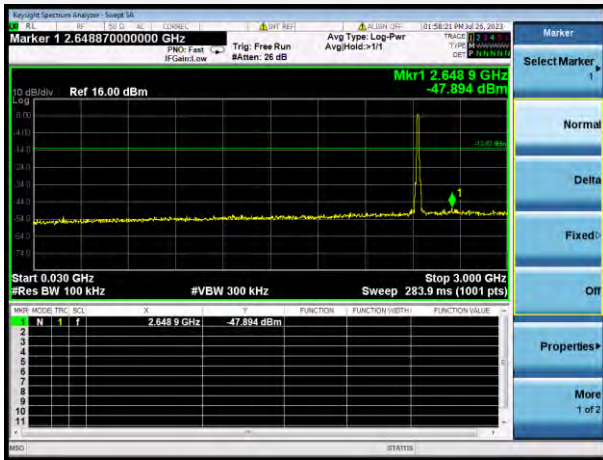
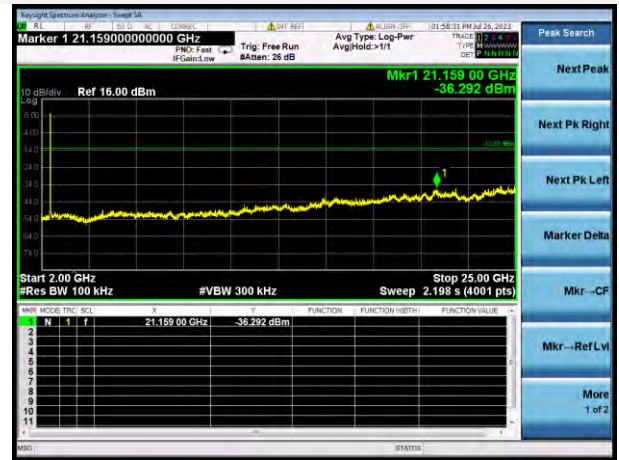


802.11b MIDDLE CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



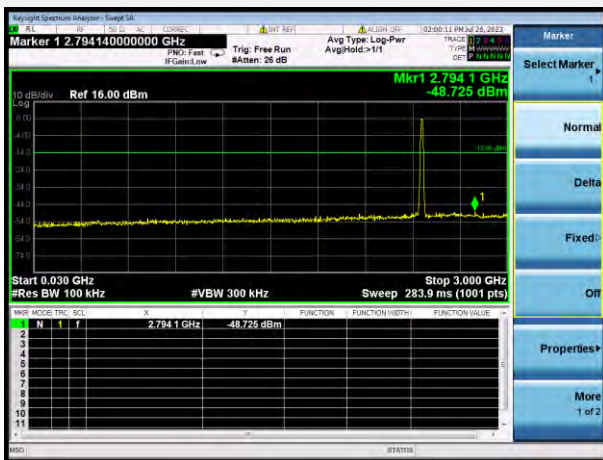
802.11b MIDDLE CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



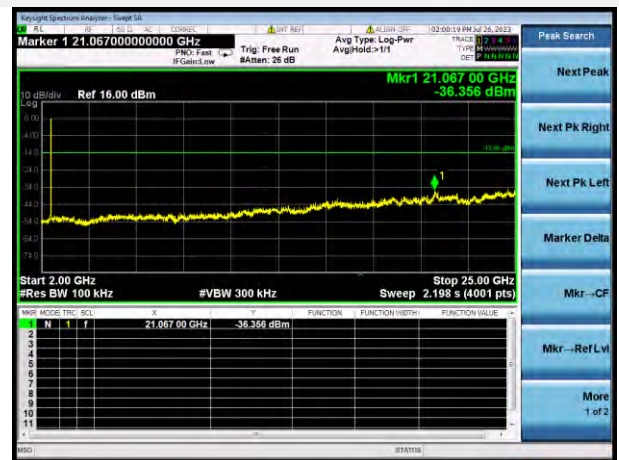
802.11b HIGH CHANNEL CARRIER LEVEL



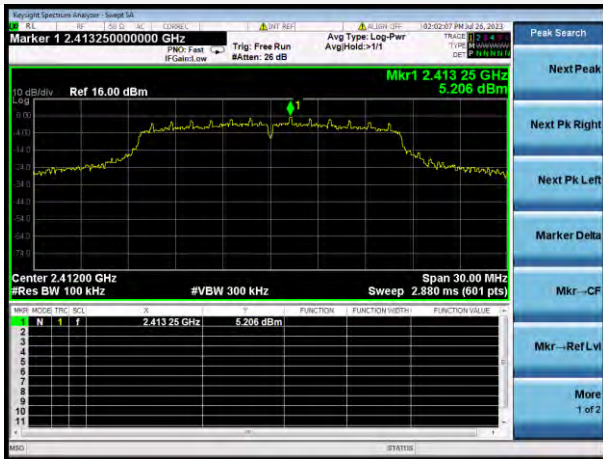
802.11b HIGH CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



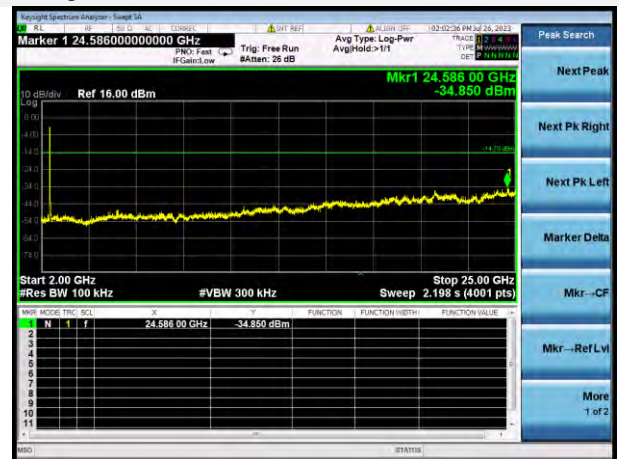
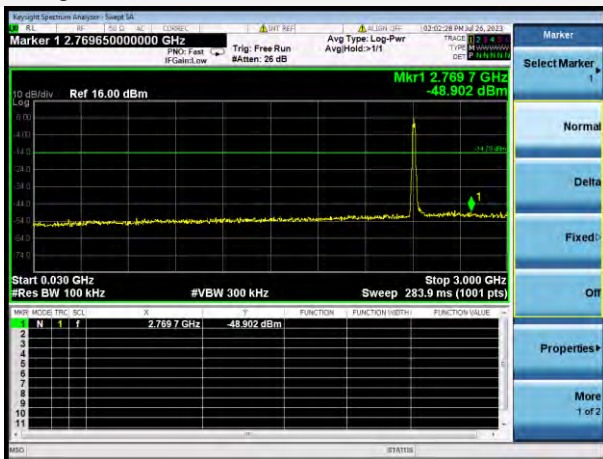
802.11b HIGH CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



802.11g LOW CHANNEL CARRIER LEVEL



802.11g LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz      802.11g LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz

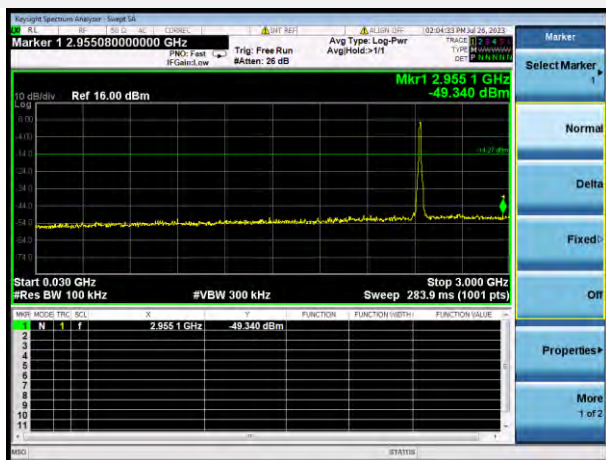


802.11g MIDDLE CHANNEL CARRIER LEVEL

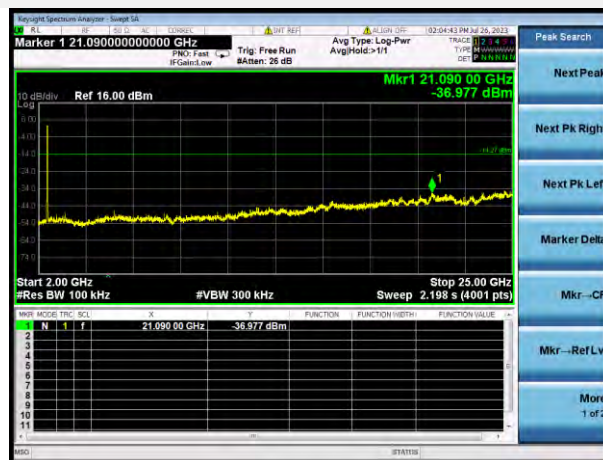




802.11g MIDDLE CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



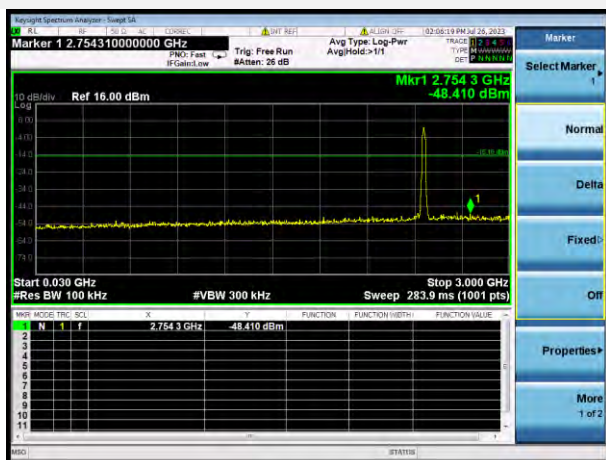
802.11g MIDDLE CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



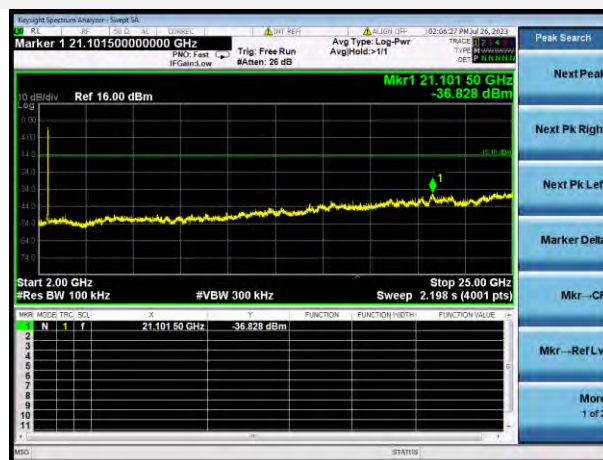
802.11g HIGH CHANNEL CARRIER LEVEL



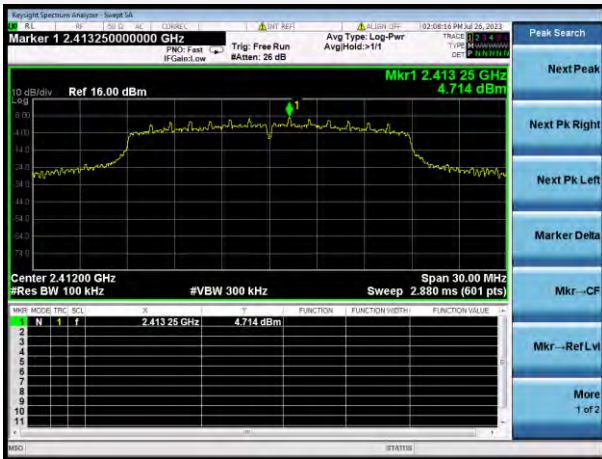
802.11g HIGH CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



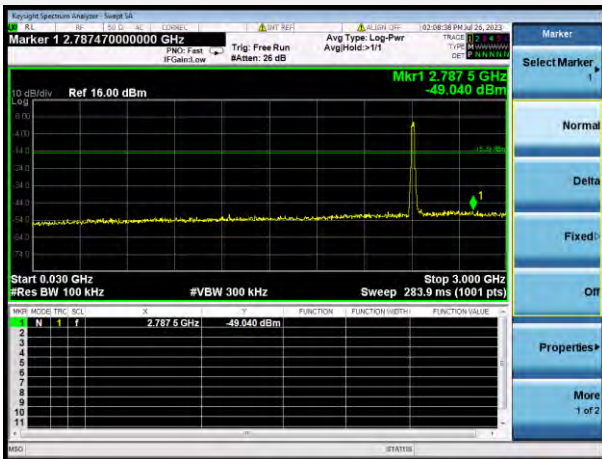
802.11g HIGH CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



802.11n-20 MHz LOW CHANNEL CARRIER LEVEL



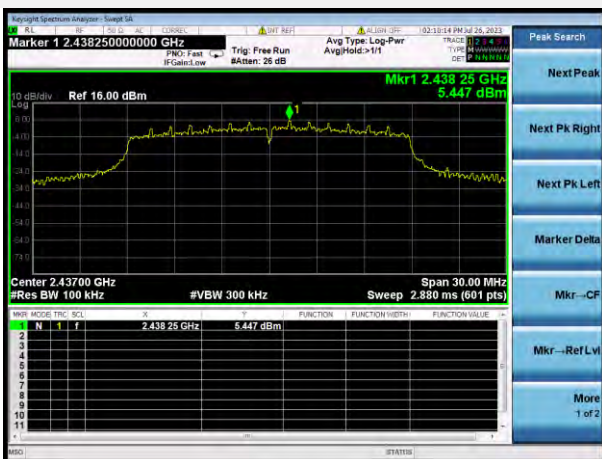
802.11n-20 MHz LOW CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



802.11n-20 MHz LOW CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz

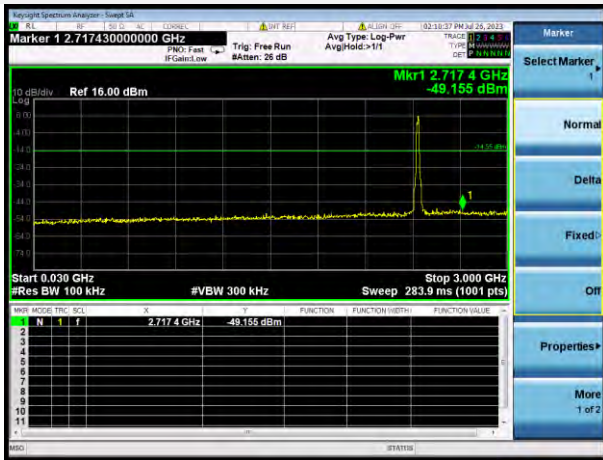


802.11n-20 MHz MIDDLE CHANNEL CARRIER LEVEL





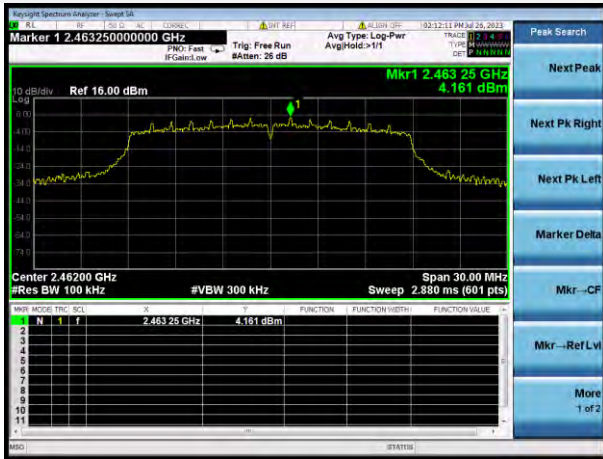
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



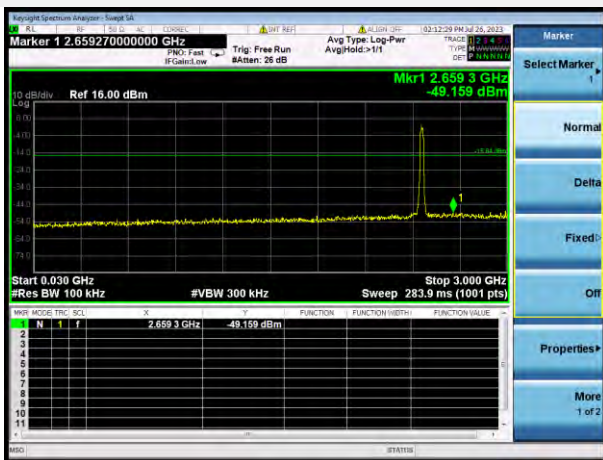
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



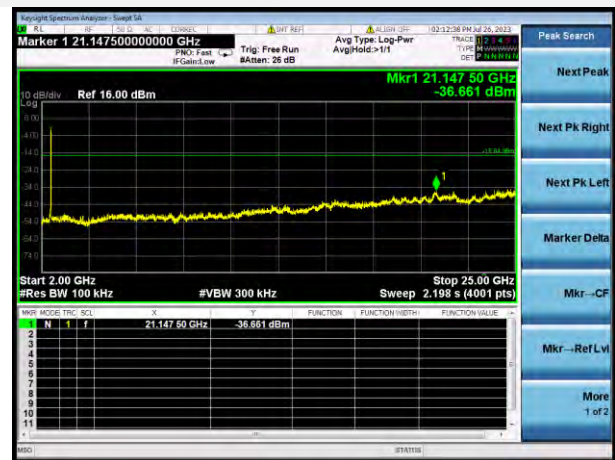
802.11n-20 MHz HIGH CHANNEL CARRIER LEVEL



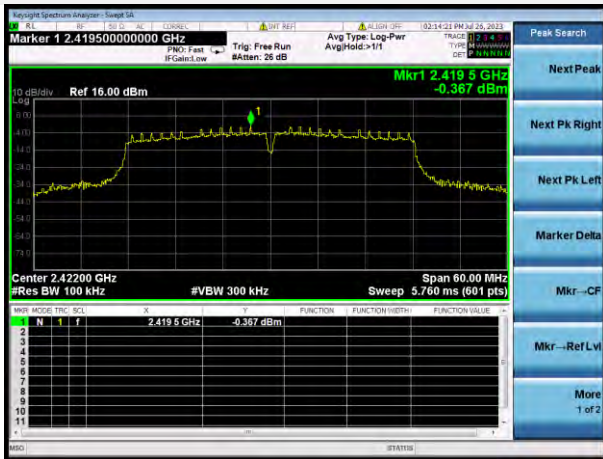
802.11n-20 MHz HIGH CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



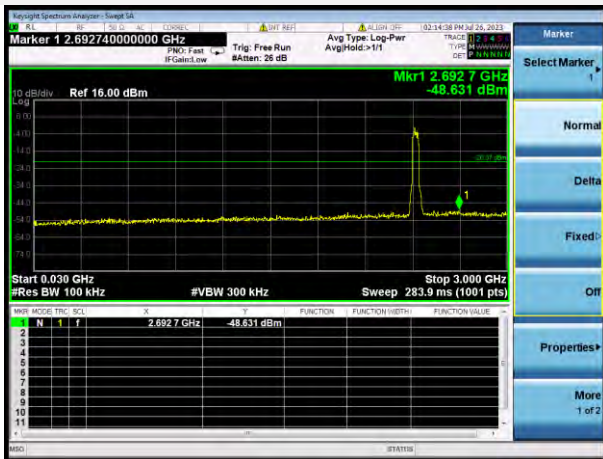
802.11n-20 MHz HIGH CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



802.11n-40 MHz LOW CHANNEL CARRIER LEVEL



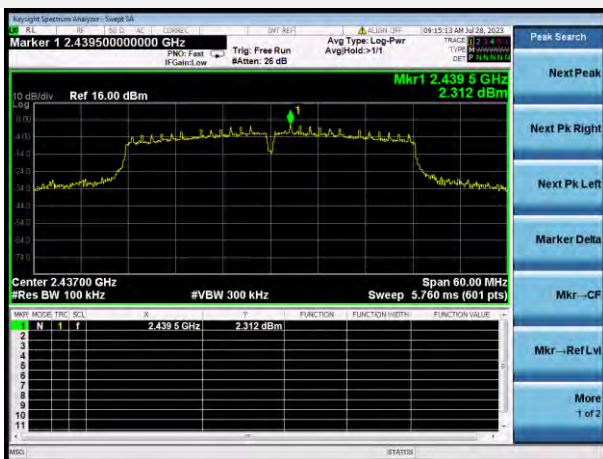
802.11n-40 MHz LOW CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



802.11n-40 MHz LOW CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz

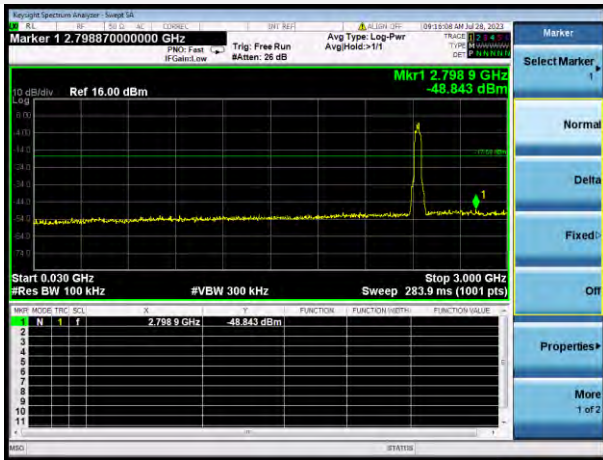


802.11n-40 MHz MIDDLE CHANNEL CARRIER LEVEL





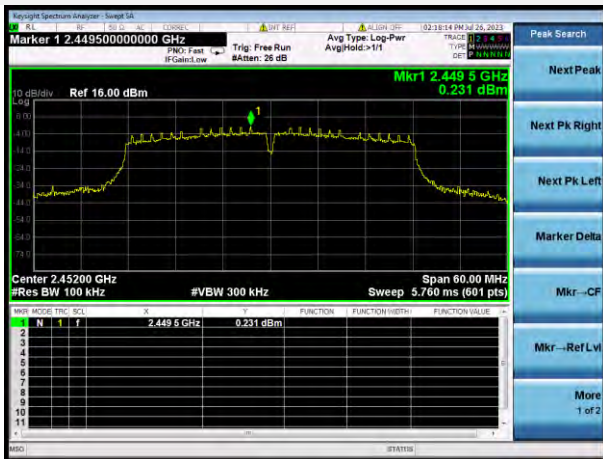
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



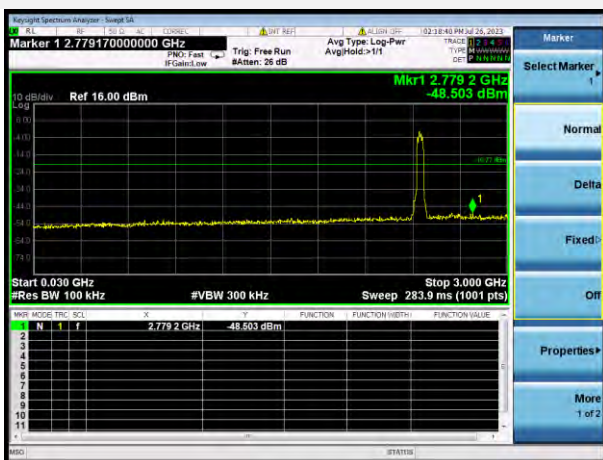
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



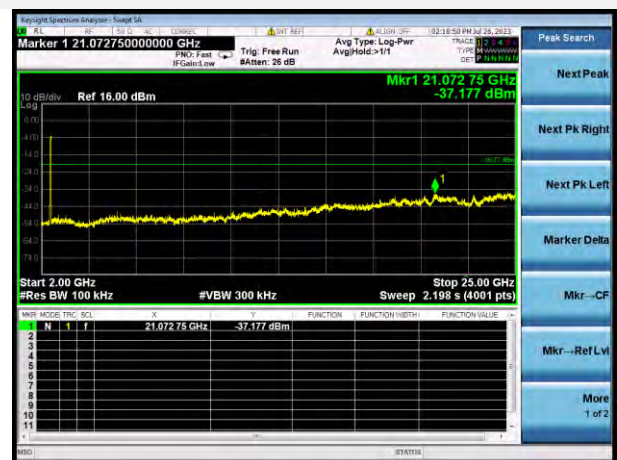
802.11n-40 MHz HIGH CHANNEL CARRIER LEVEL



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

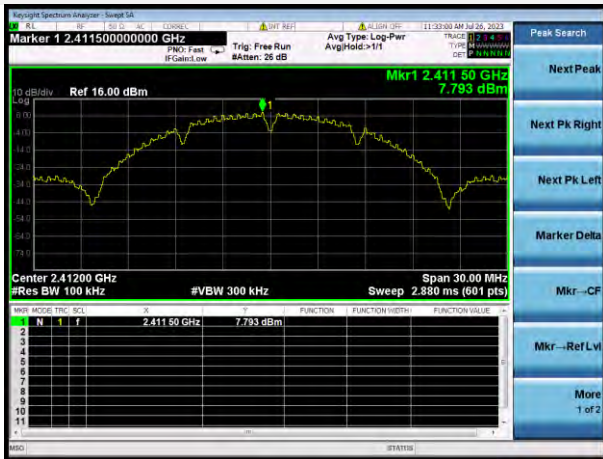


802.11n-40 MHz HIGH CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz

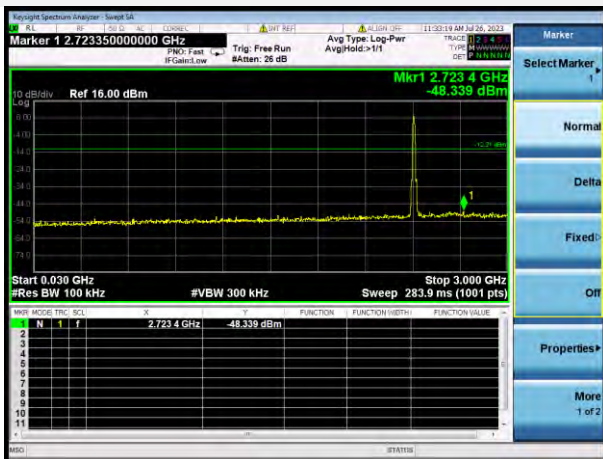


MIMO-Main Antenna

802.11b LOW CHANNEL CARRIER LEVEL



802.11b LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



802.11b LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz

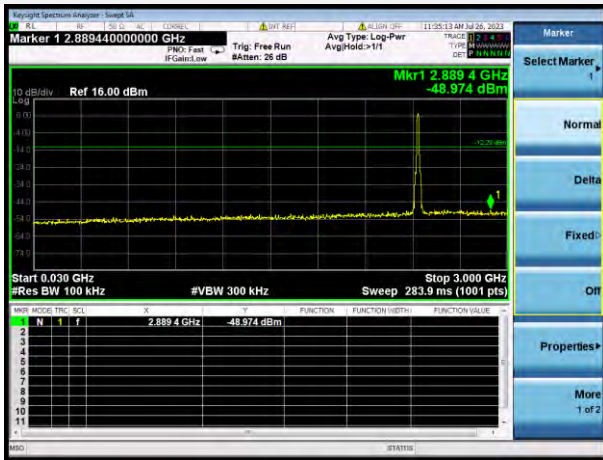


802.11b MIDDLE CHANNEL CARRIER LEVEL





802.11b MIDDLE CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



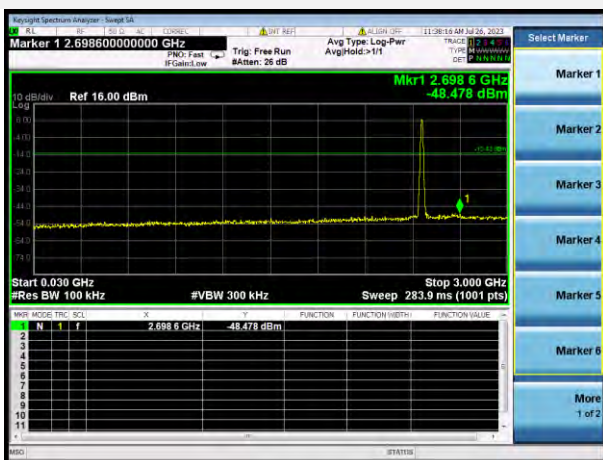
802.11b MIDDLE CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



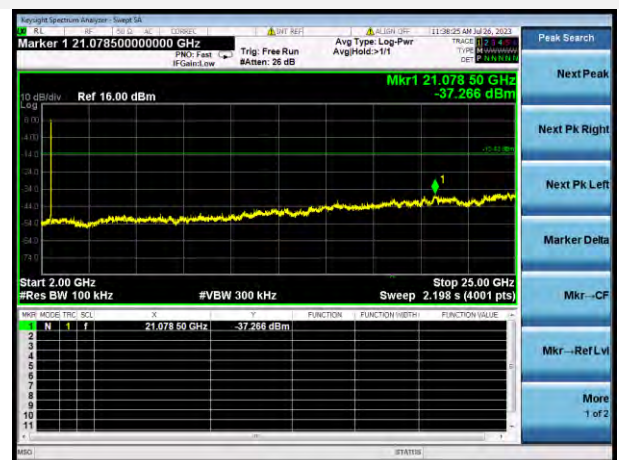
802.11b HIGH CHANNEL CARRIER LEVEL



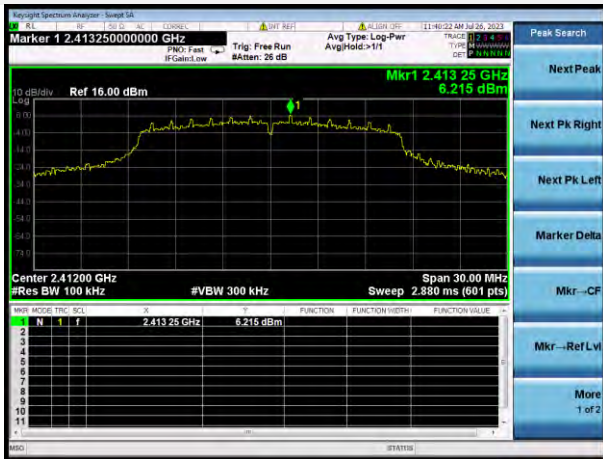
802.11b HIGH CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



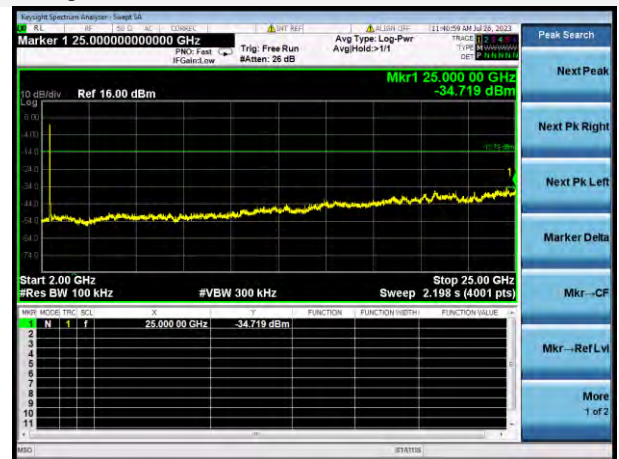
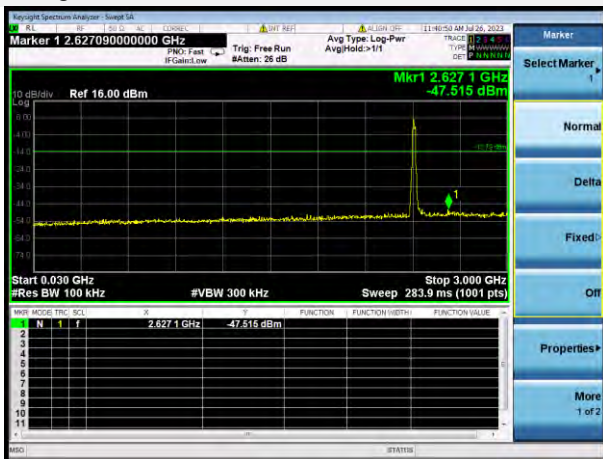
802.11b HIGH CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



802.11g LOW CHANNEL CARRIER LEVEL



802.11g LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz      802.11g LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz

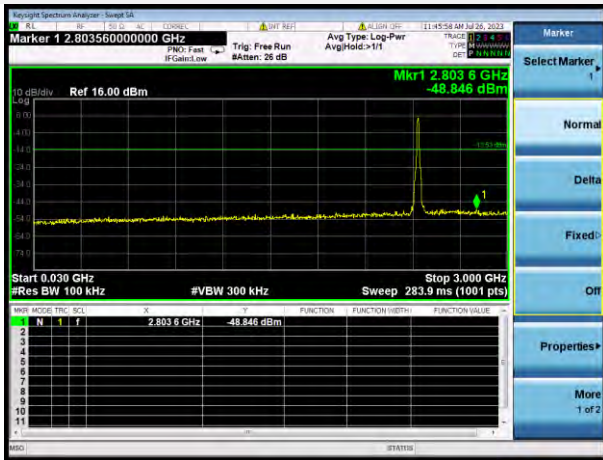


802.11g MIDDLE CHANNEL CARRIER LEVEL





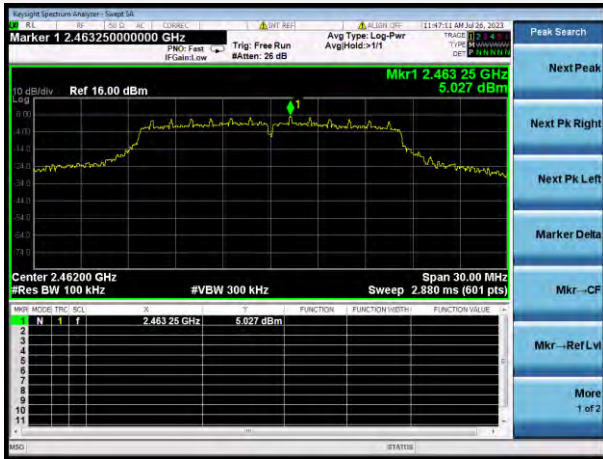
802.11g MIDDLE CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



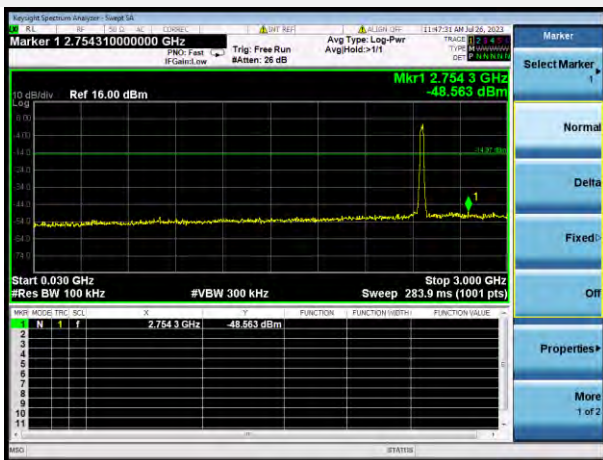
802.11g MIDDLE CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



802.11g HIGH CHANNEL CARRIER LEVEL



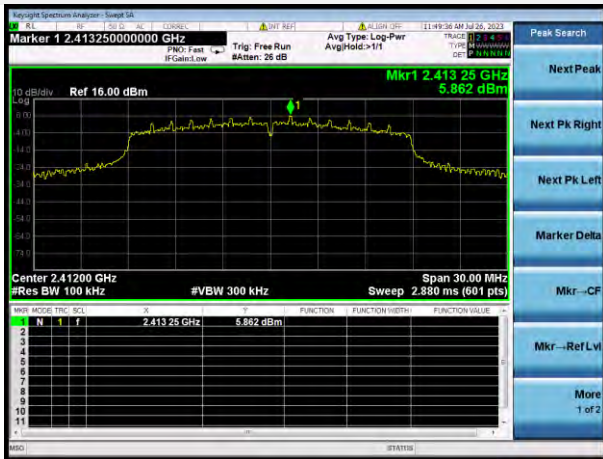
802.11g HIGH CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



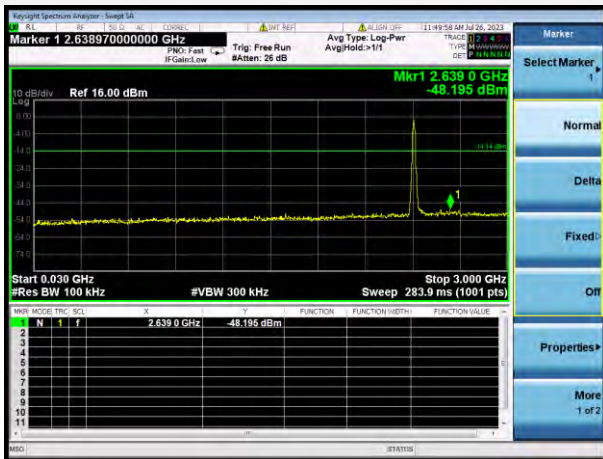
802.11g HIGH CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



802.11n-20 MHz LOW CHANNEL CARRIER LEVEL



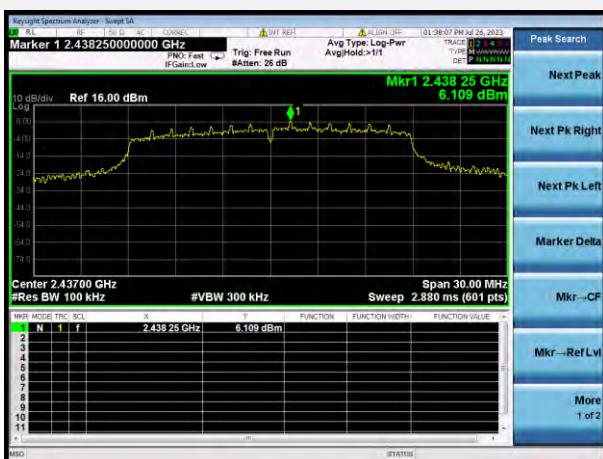
802.11n-20 MHz LOW CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



802.11n-20 MHz LOW CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz

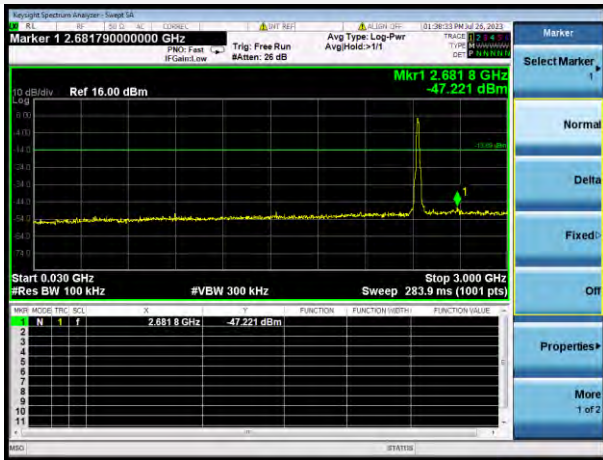


802.11n-20 MHz MIDDLE CHANNEL CARRIER LEVEL





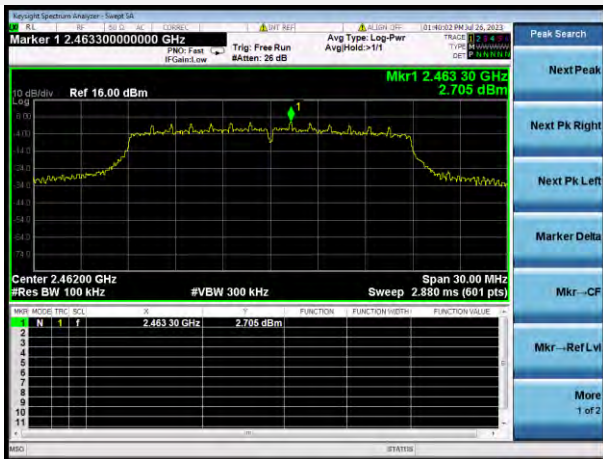
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



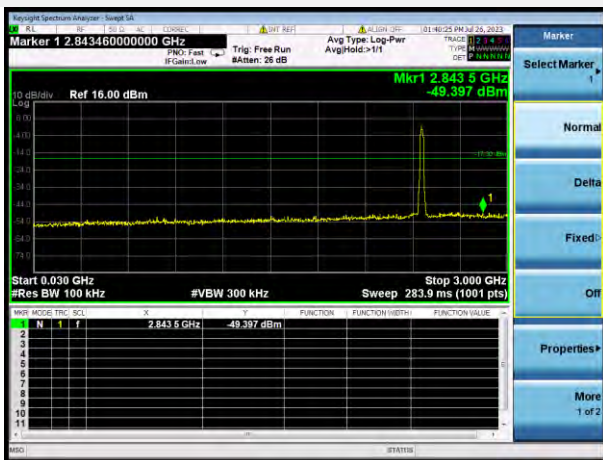
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



802.11n-20 MHz HIGH CHANNEL CARRIER LEVEL



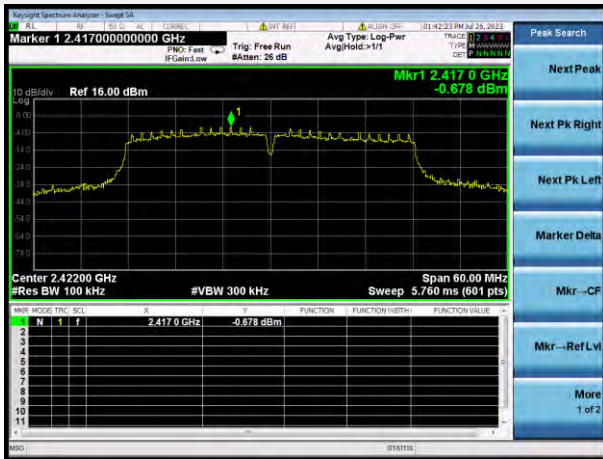
802.11n-20 MHz HIGH CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



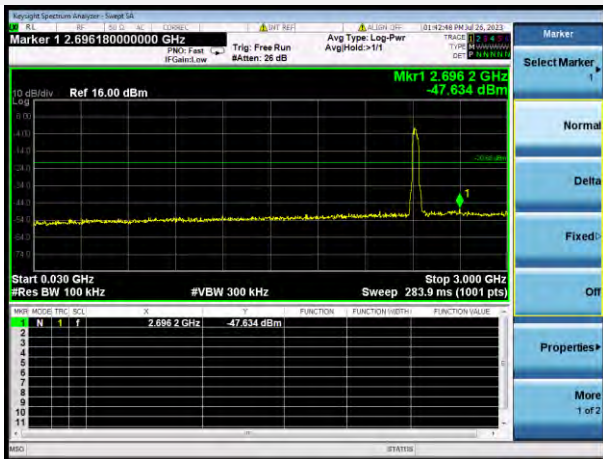
802.11n-20 MHz HIGH CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



802.11n-40 MHz LOW CHANNEL CARRIER LEVEL



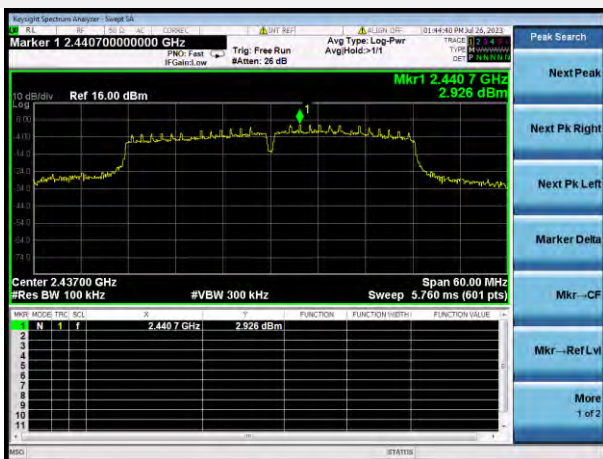
802.11n-40 MHz LOW CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



802.11n-40 MHz LOW CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz

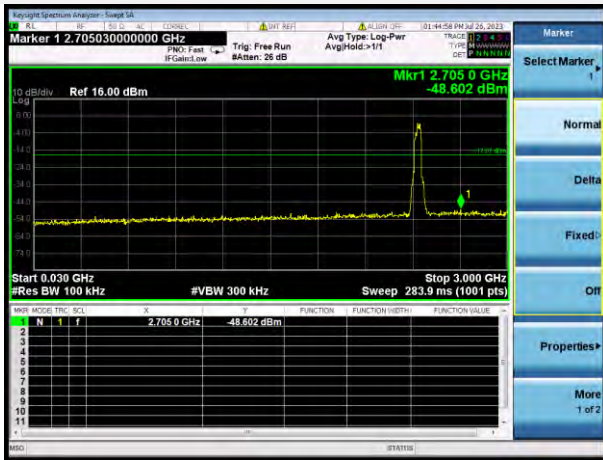


802.11n-40 MHz MIDDLE CHANNEL CARRIER LEVEL





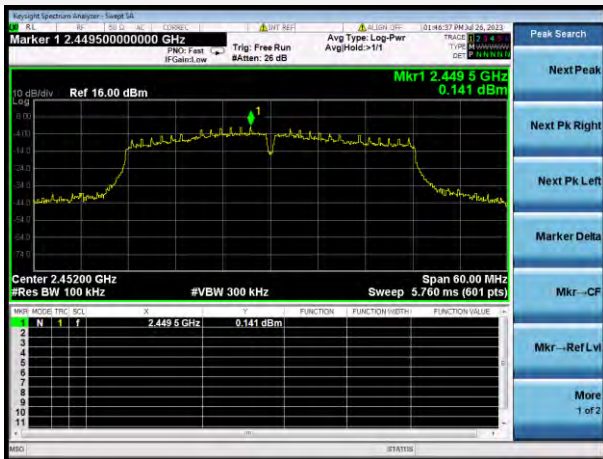
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



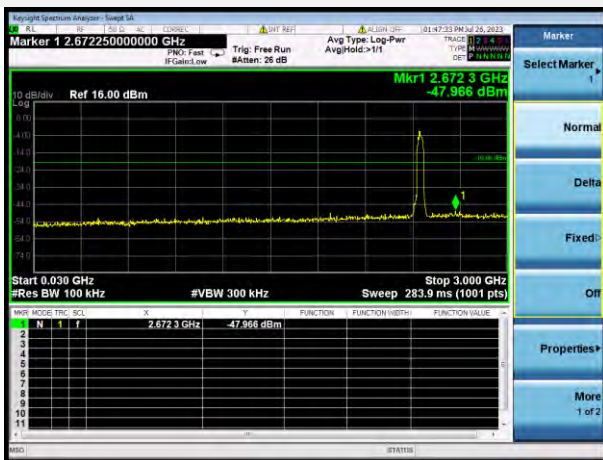
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



802.11n-40 MHz HIGH CHANNEL CARRIER LEVEL



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



802.11n-40 MHz HIGH CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz

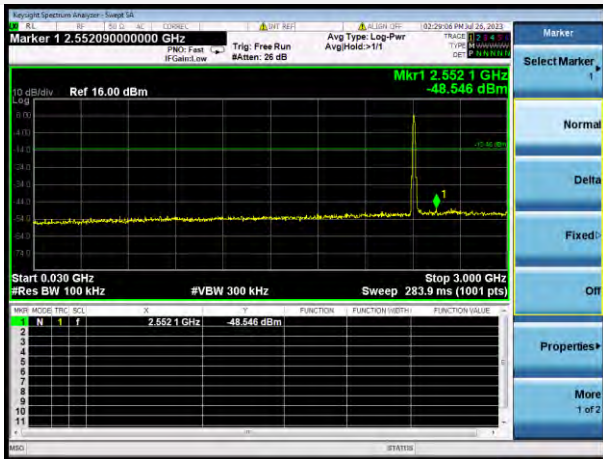


MIMO-Aux. Antenna

802.11b LOW CHANNEL CARRIER LEVEL



802.11b LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



802.11b LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz

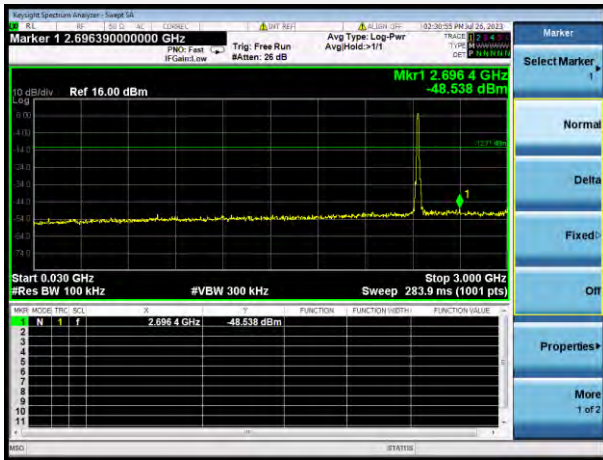


802.11b MIDDLE CHANNEL CARRIER LEVEL

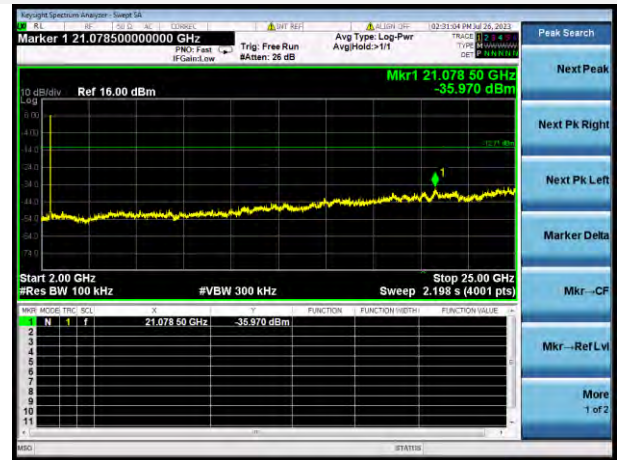




802.11b MIDDLE CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



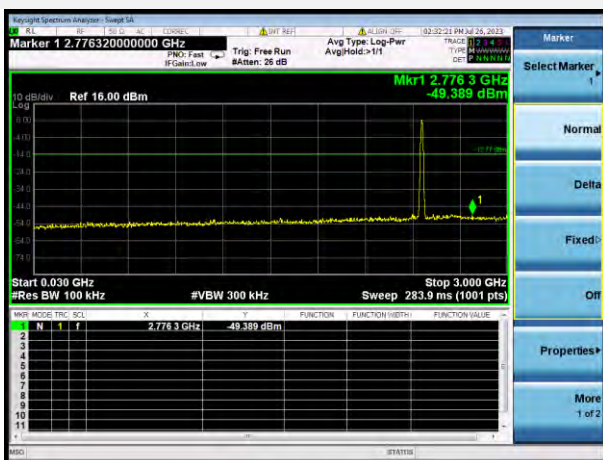
802.11b MIDDLE CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



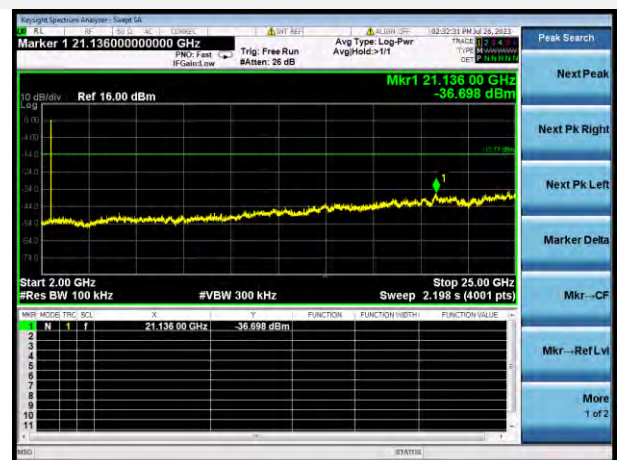
802.11b HIGH CHANNEL CARRIER LEVEL



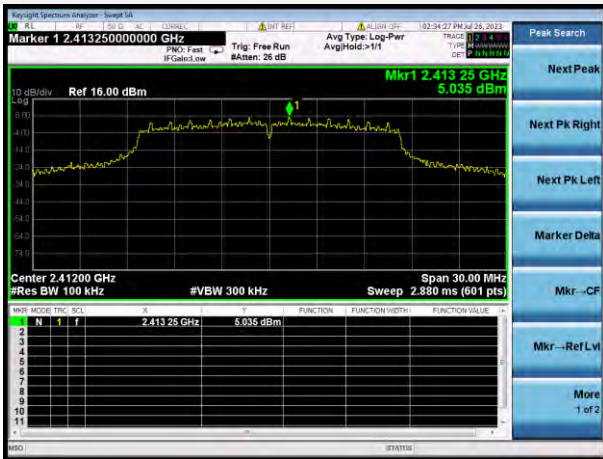
802.11b HIGH CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



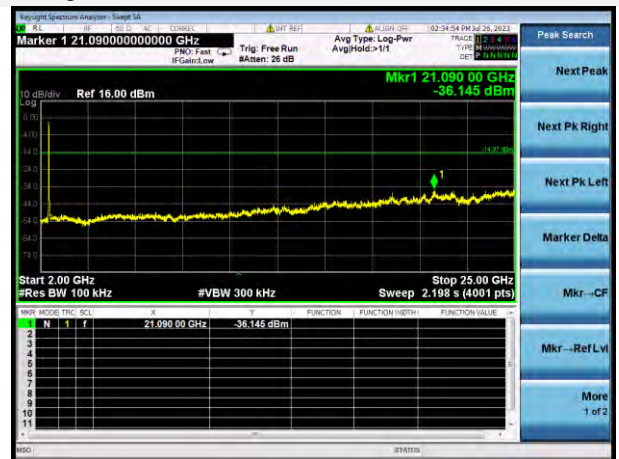
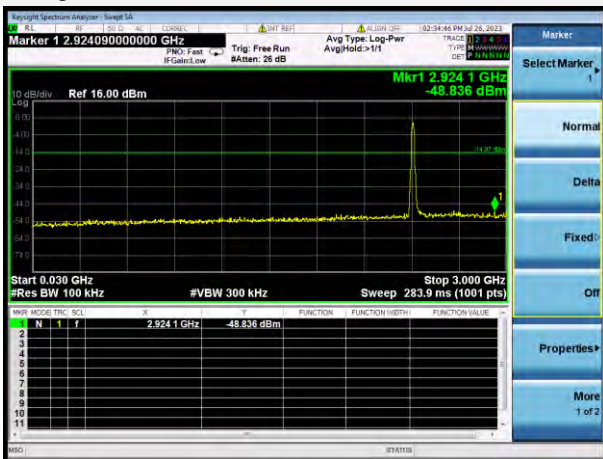
802.11b HIGH CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



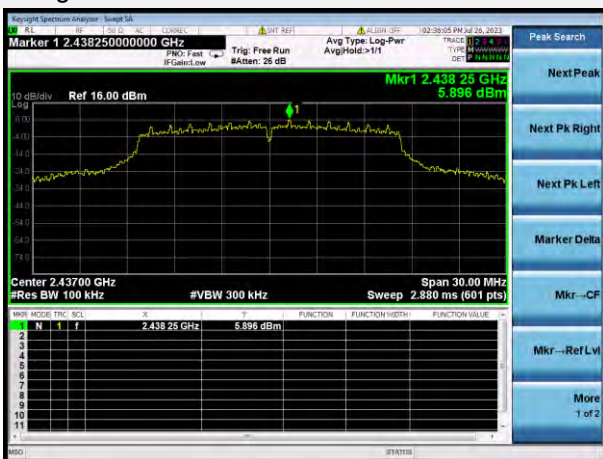
802.11g LOW CHANNEL CARRIER LEVEL



802.11g LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz      802.11g LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz

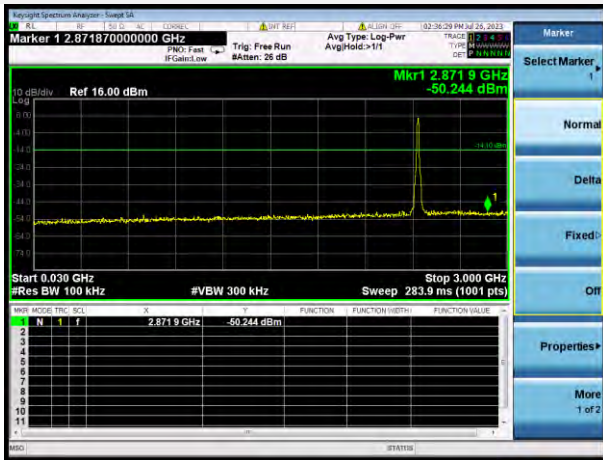


802.11g MIDDLE CHANNEL CARRIER LEVEL

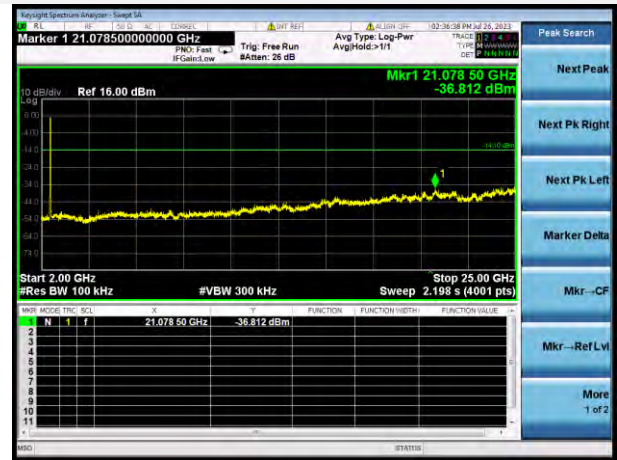




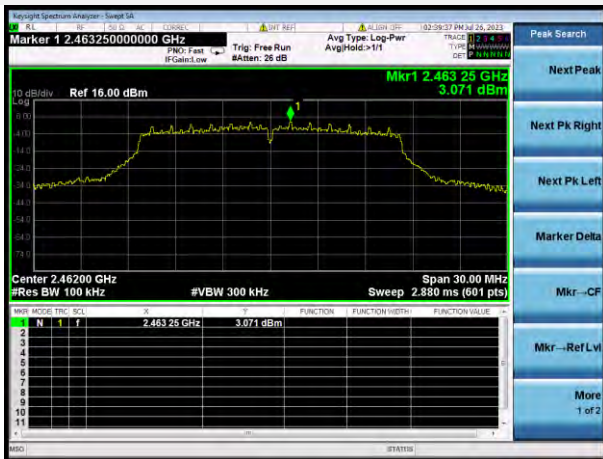
802.11g MIDDLE CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



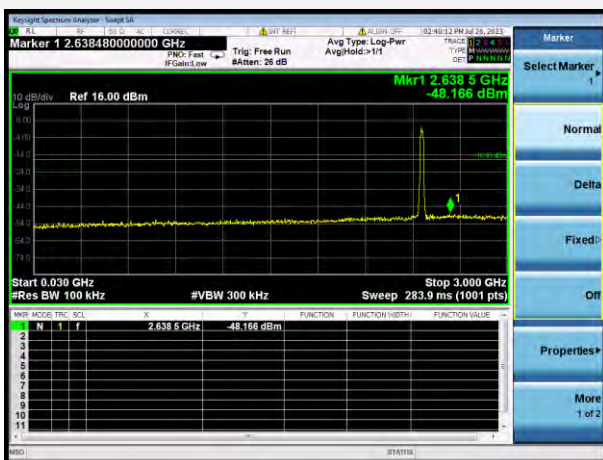
802.11g MIDDLE CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



802.11g HIGH CHANNEL CARRIER LEVEL



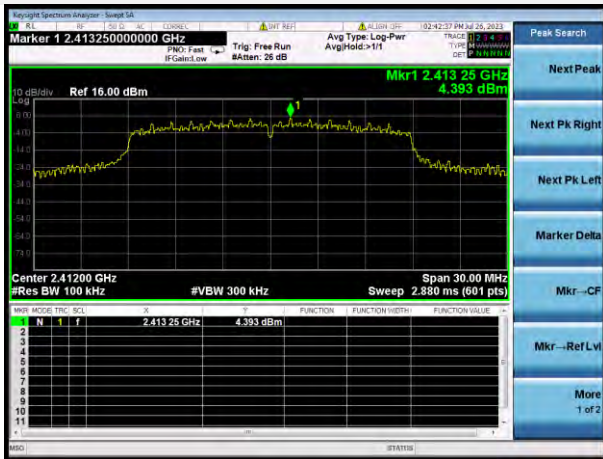
802.11g HIGH CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



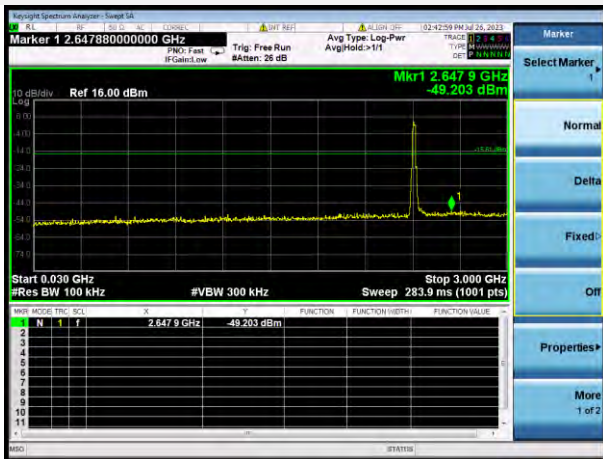
802.11g HIGH CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



802.11n-20 MHz LOW CHANNEL CARRIER LEVEL



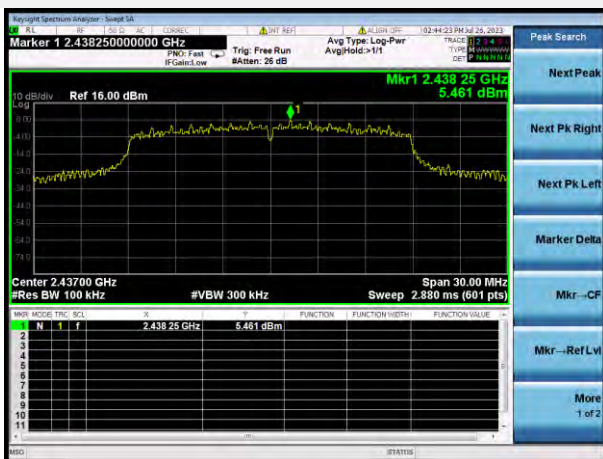
802.11n-20 MHz LOW CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



802.11n-20 MHz LOW CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz

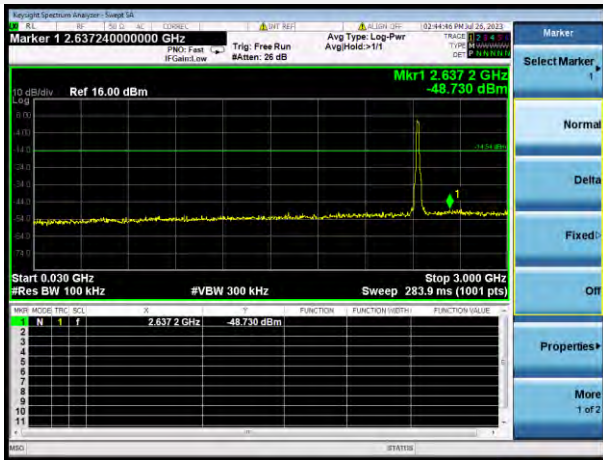


802.11n-20 MHz MIDDLE CHANNEL CARRIER LEVEL





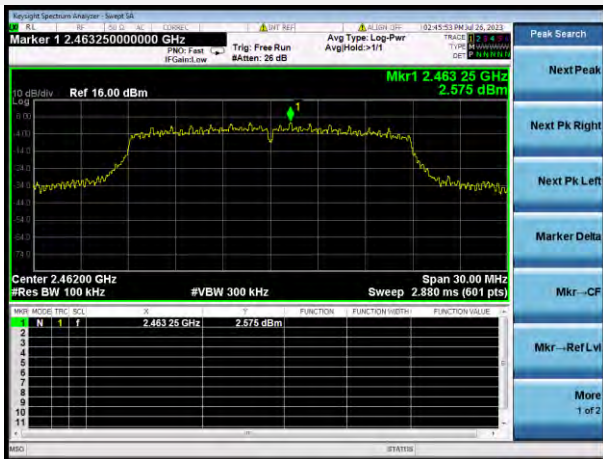
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



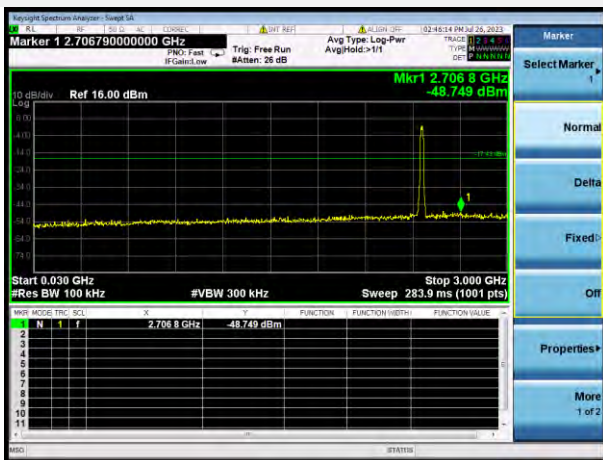
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



802.11n-20 MHz HIGH CHANNEL CARRIER LEVEL



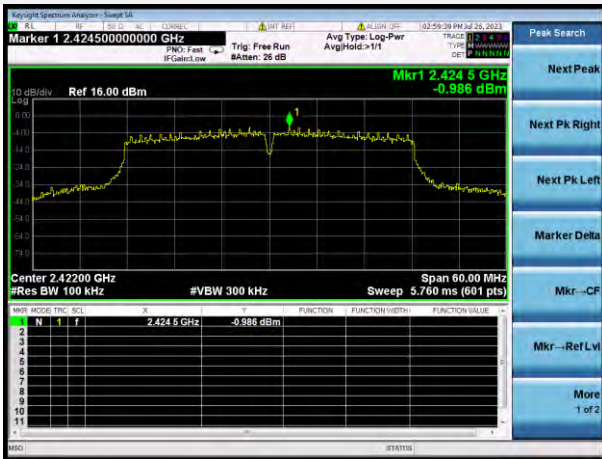
802.11n-20 MHz HIGH CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



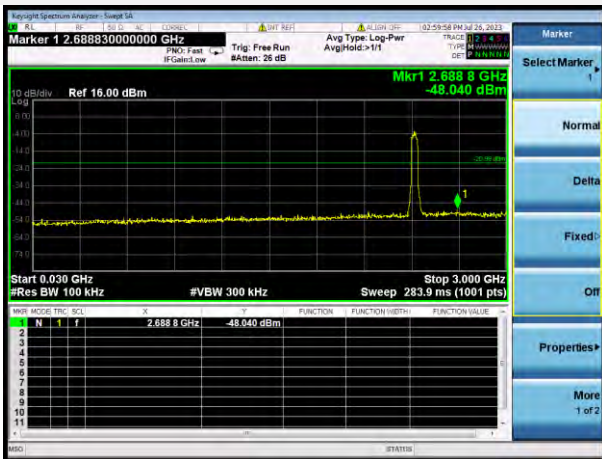
802.11n-20 MHz HIGH CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



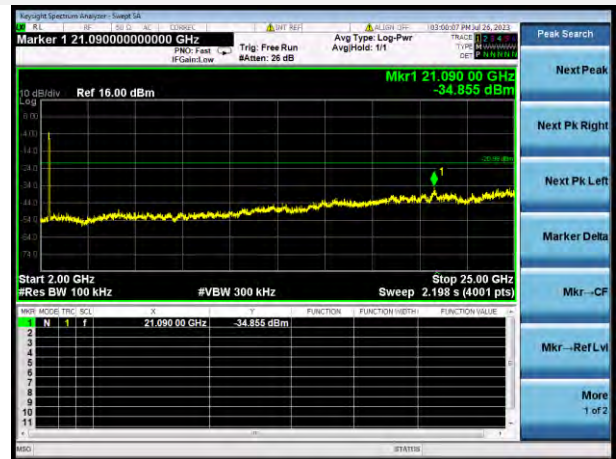
802.11n-40 MHz LOW CHANNEL CARRIER LEVEL



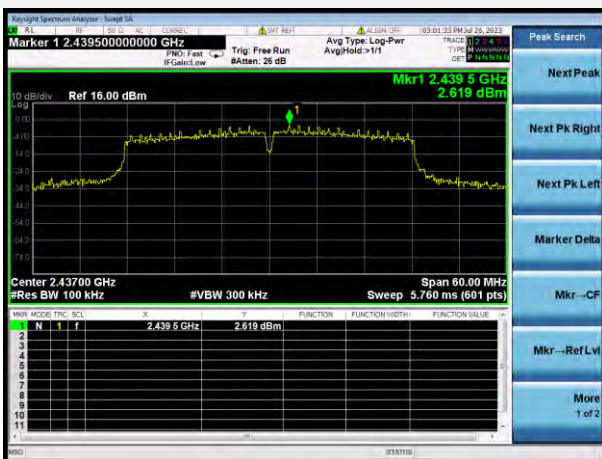
802.11n-40 MHz LOW CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



802.11n-40 MHz LOW CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz

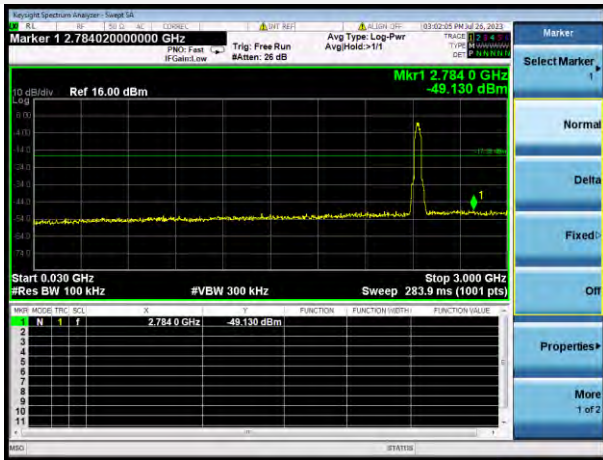


802.11n-40 MHz MIDDLE CHANNEL CARRIER LEVEL





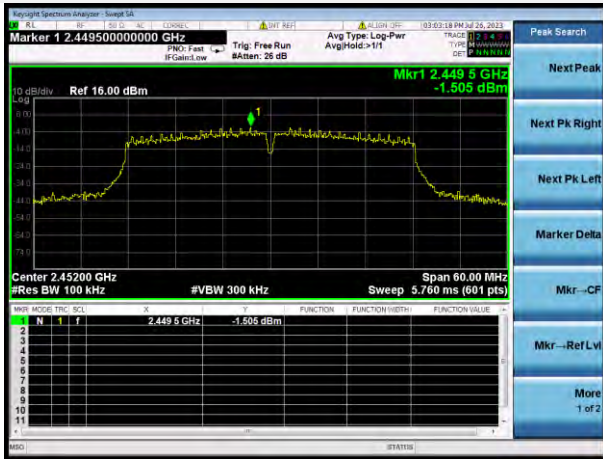
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS  
30 MHz ~ 3 GHz



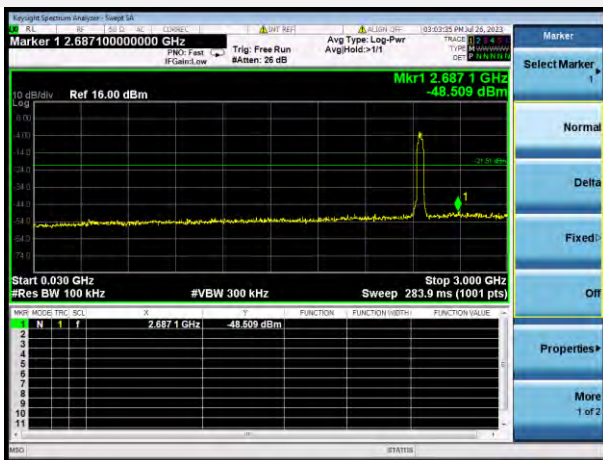
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



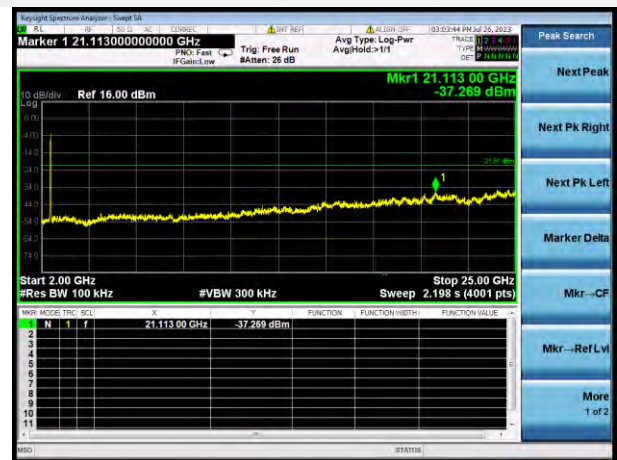
802.11n-40 MHz HIGH CHANNEL CARRIER LEVEL



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



802.11n-40 MHz HIGH CHANNEL, SPURIOUS  
2 GHz ~ 25 GHz



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

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

### Test Data

#### Main Antenna

##### 802.11b Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-29.14	7.05	-12.95	Pass
High Channel	-45.09	6.90	-13.10	Pass

##### 802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-24.49	5.97	-14.03	Pass
High Channel	-42.51	4.41	-15.59	Pass

##### 802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-24.42	5.50	-14.50	Pass
High Channel	-42.42	3.23	-16.77	Pass

##### 802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-29.15	1.25	-18.75	Pass
High Channel	-40.48	0.45	-19.55	Pass



Aux. Antenna

## 802.11b Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-29.70	6.98	-13.02	Pass
High Channel	-46.58	6.14	-13.86	Pass

## 802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-24.03	5.21	-14.79	Pass
High Channel	-43.12	4.84	-15.16	Pass

## 802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-23.56	4.71	-15.29	Pass
High Channel	-43.50	4.16	-15.84	Pass

## 802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-31.75	-0.37	-20.37	Pass
High Channel	-40.41	0.23	-19.77	Pass

MIMO-Main Antenna

## 802.11b Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-28.95	7.79	-12.21	Pass
High Channel	-46.03	6.57	-13.43	Pass

## 802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-24.65	6.22	-13.79	Pass
High Channel	-41.11	5.03	-14.97	Pass

## 802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-25.33	5.86	-14.14	Pass
High Channel	-42.88	2.71	-17.30	Pass

## 802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-34.00	-0.68	-20.68	Pass
High Channel	-40.54	0.14	-19.86	Pass



MIMO-Aux. Antenna

## 802.11b Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-29.20	6.54	-13.46	Pass
High Channel	-46.34	6.23	-13.77	Pass

## 802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-23.68	5.04	-14.97	Pass
High Channel	-44.88	3.07	-16.93	Pass

## 802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-22.34	4.39	-15.61	Pass
High Channel	-44.58	2.58	-17.43	Pass

## 802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-34.67	-0.99	-20.99	Pass
High Channel	-43.99	-1.51	-21.51	Pass

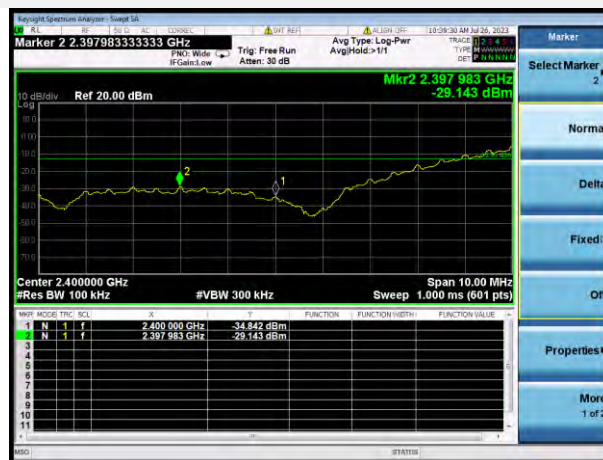
Test Plots

Main Antenna

802.11b LOW CHANNEL, CARRIER LEVEL



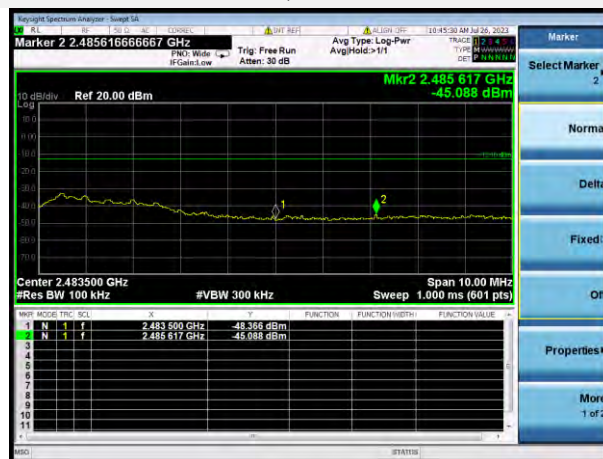
802.11b LOW CHANNEL, REFERENCE LEVEL



802.11b HIGH CHANNEL, CARRIER LEVEL



802.11b HIGH CHANNEL, REFERENCE LEVEL



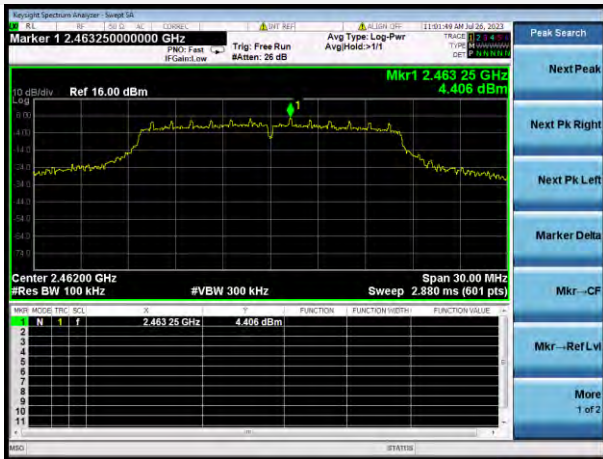
802.11g LOW CHANNEL, CARRIER LEVEL



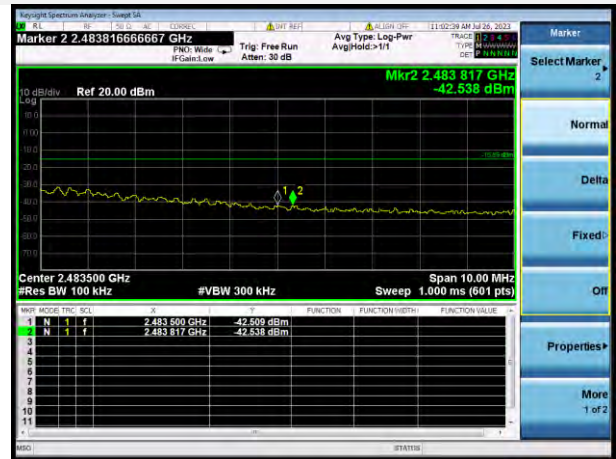
802.11g LOW CHANNEL, REFERENCE LEVEL



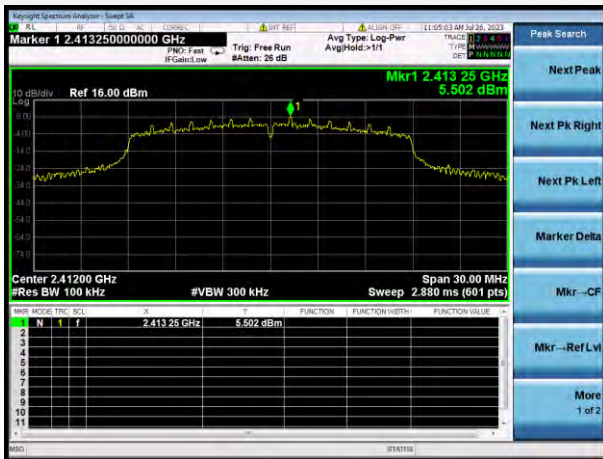
802.11g HIGH CHANNEL, CARRIER LEVEL



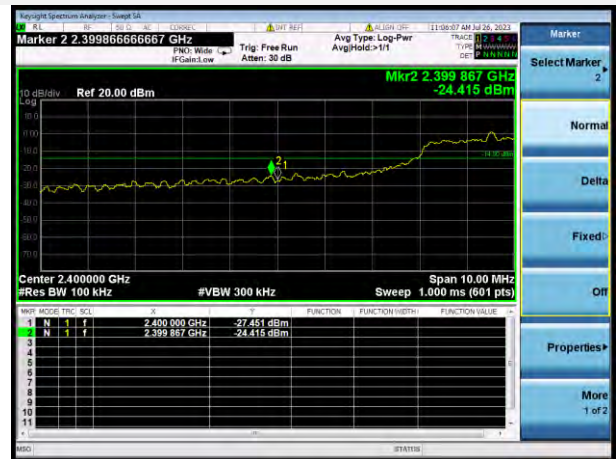
802.11g HIGH CHANNEL, REFERENCE LEVEL



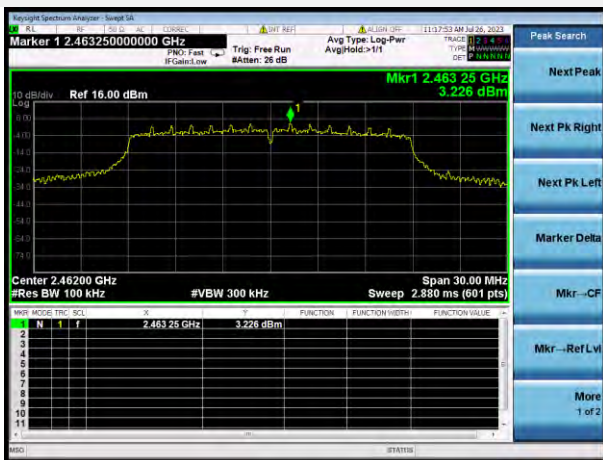
802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



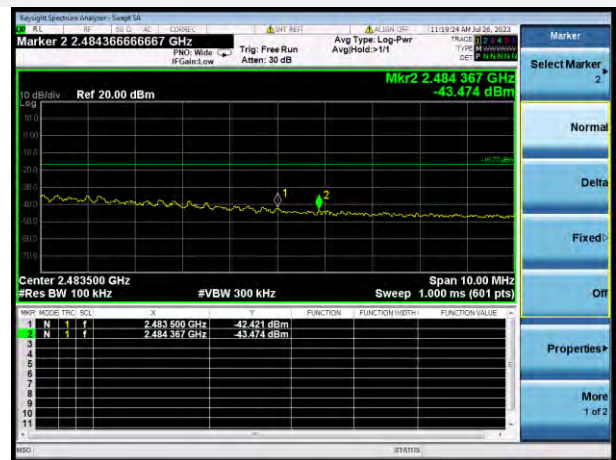
802.11n-20 MHz LOW CHANNEL, REFERENCE LEVEL



802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL

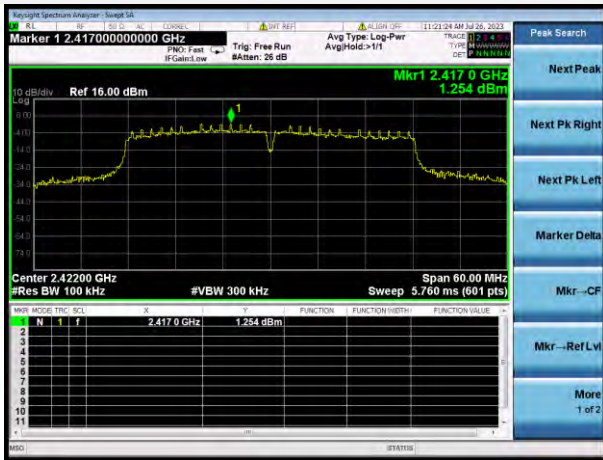


802.11n-20 MHz HIGH CHANNEL, REFERENCE LEVEL





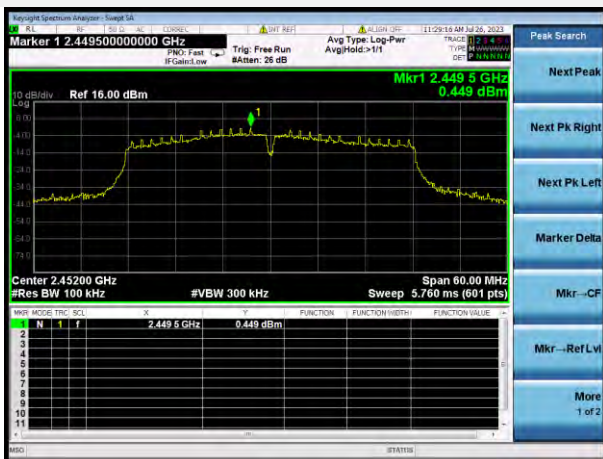
802.11n-40 MHz LOW CHANNEL, CARRIER LEVEL



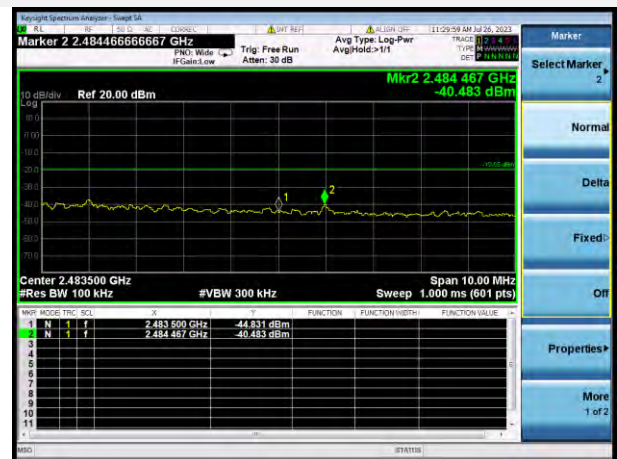
802.11n-40 MHz LOW CHANNEL, REFERENCE LEVEL



802.11n-40 MHz HIGH CHANNEL, CARRIER LEVEL

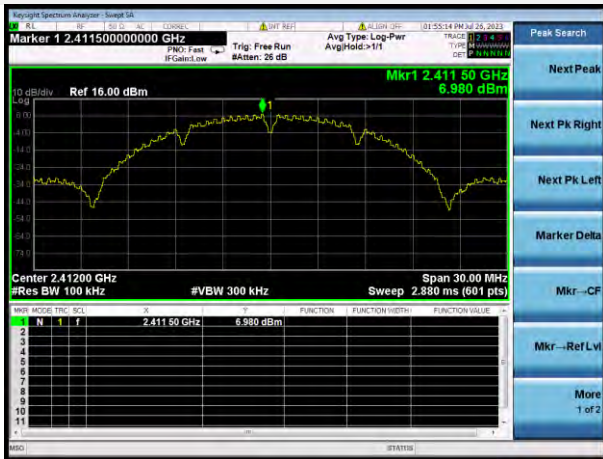


802.11n-40 MHz HIGH CHANNEL, REFERENCE LEVEL

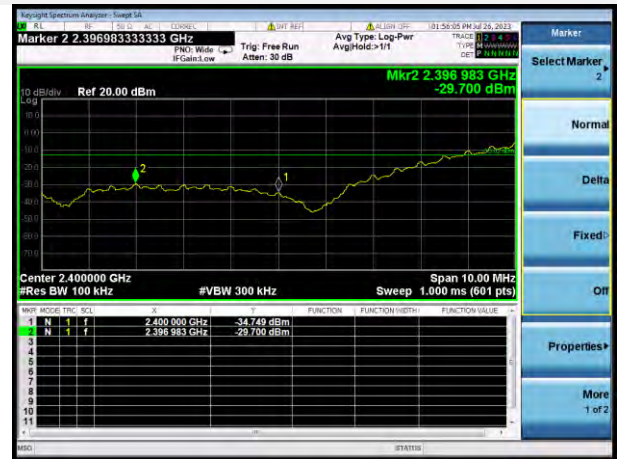


Aux. Antenna

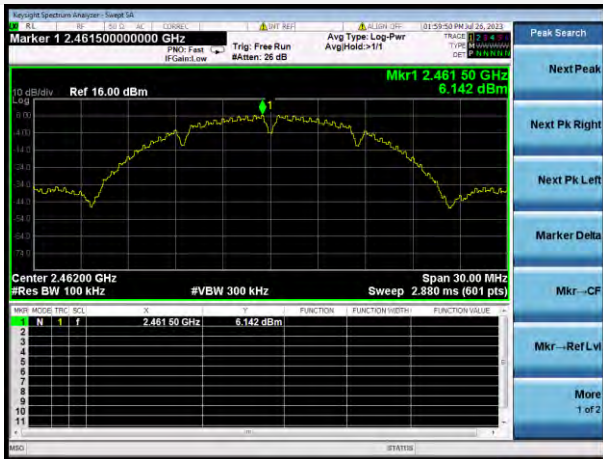
802.11b LOW CHANNEL, CARRIER LEVEL



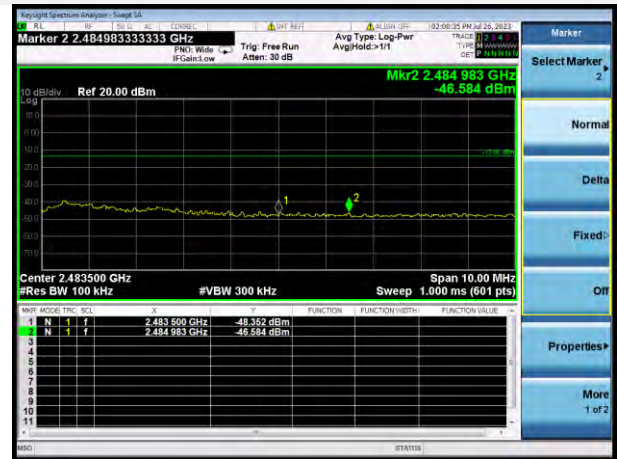
802.11b LOW CHANNEL, REFERENCE LEVEL



802.11b HIGH CHANNEL, CARRIER LEVEL



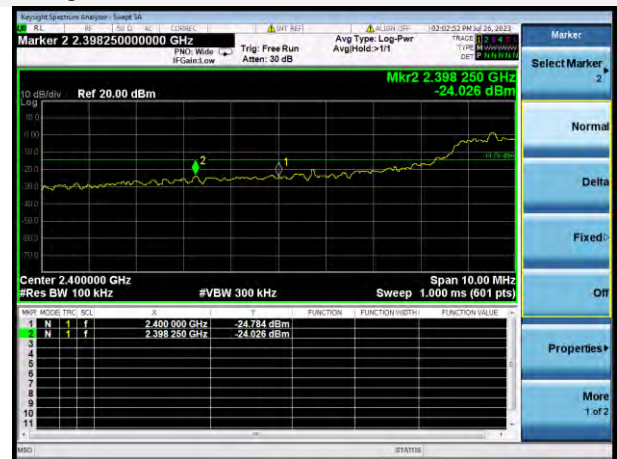
802.11b HIGH CHANNEL, REFERENCE LEVEL



802.11g LOW CHANNEL, CARRIER LEVEL

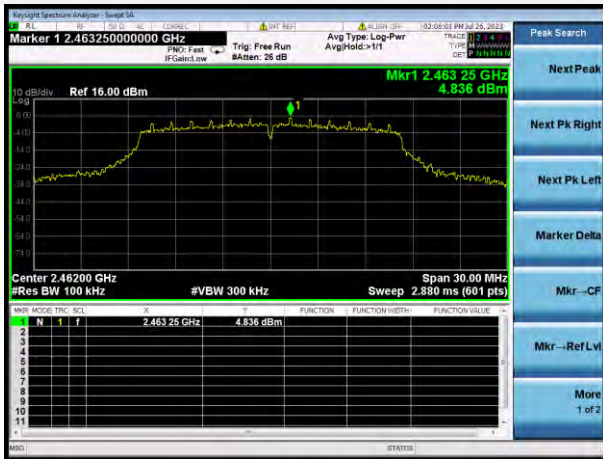


802.11g LOW CHANNEL, REFERENCE LEVEL

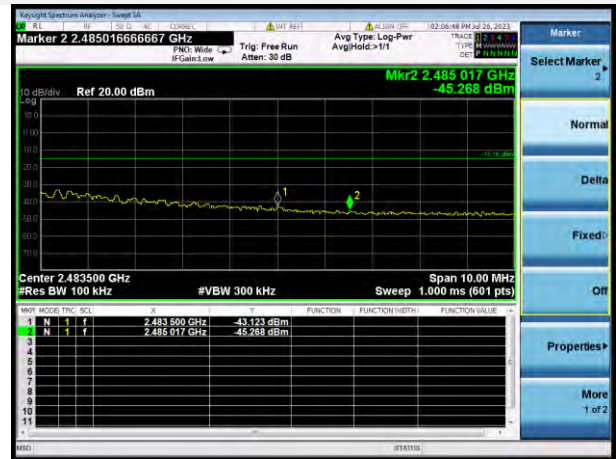




802.11g HIGH CHANNEL, CARRIER LEVEL



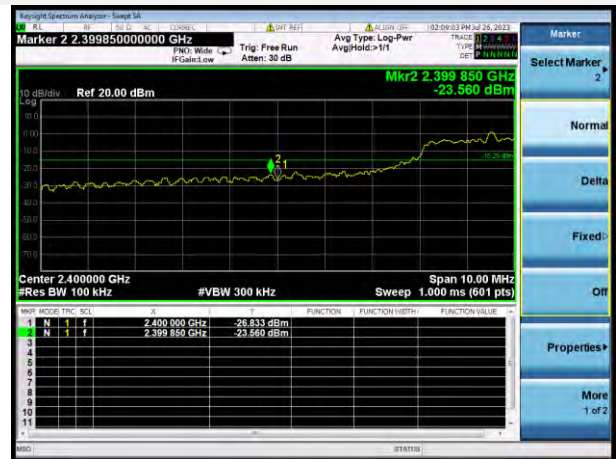
802.11g HIGH CHANNEL, REFERENCE LEVEL



802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



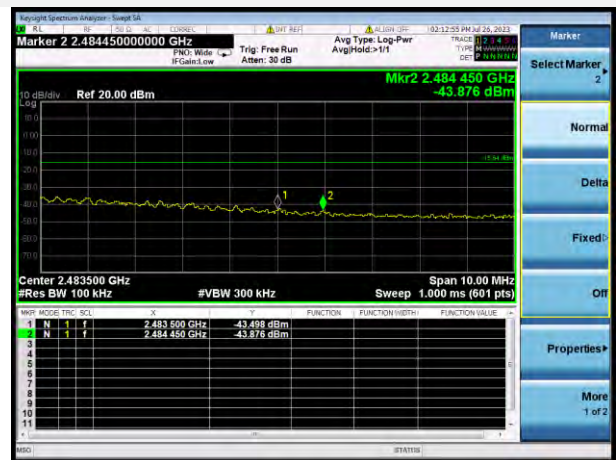
802.11n-20 MHz LOW CHANNEL, REFERENCE LEVEL



802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL

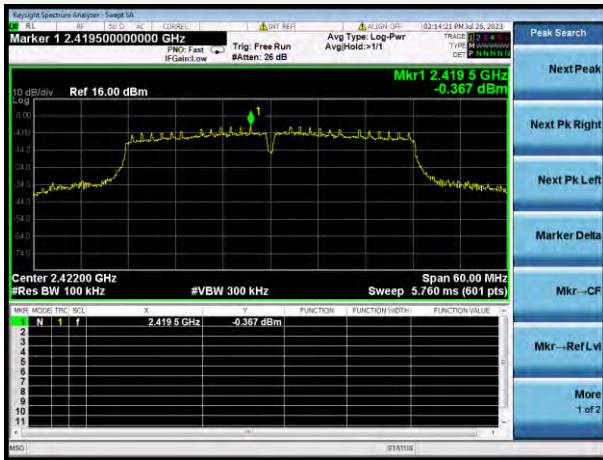


802.11n-20 MHz HIGH CHANNEL, REFERENCE LEVEL





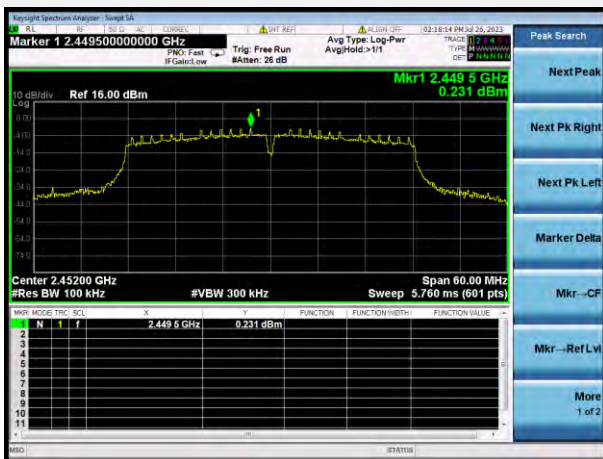
802.11n-40 MHz LOW CHANNEL, CARRIER LEVEL



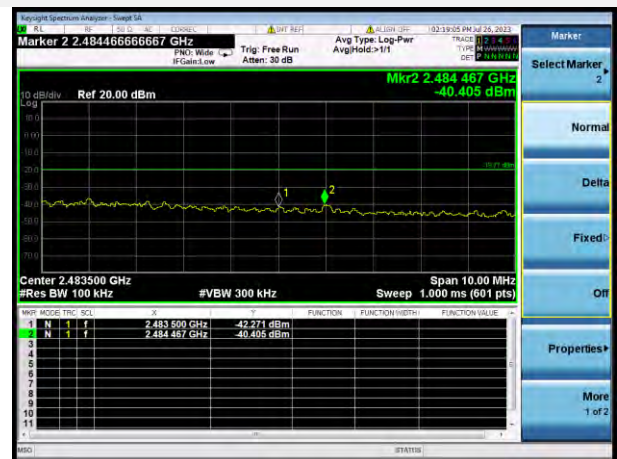
802.11n-40 MHz LOW CHANNEL, REFERENCE LEVEL



802.11n-40 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-40 MHz HIGH CHANNEL, REFERENCE LEVEL

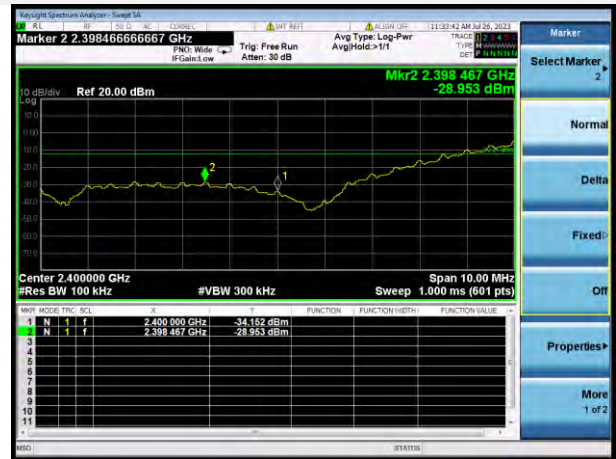


MIMO-Main Antenna

802.11b LOW CHANNEL, CARRIER LEVEL



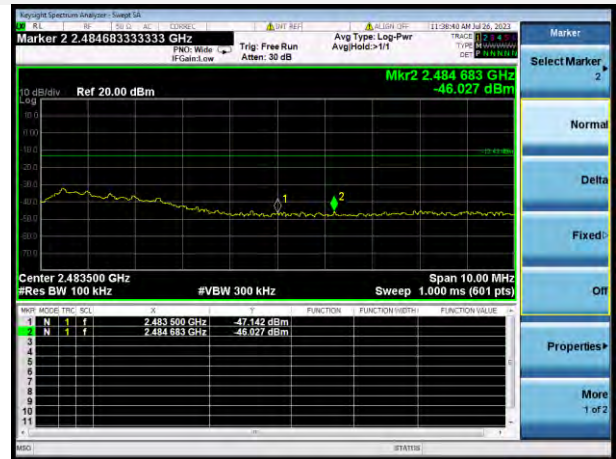
802.11b LOW CHANNEL, REFERENCE LEVEL



802.11b HIGH CHANNEL, CARRIER LEVEL



802.11b HIGH CHANNEL, REFERENCE LEVEL



802.11g LOW CHANNEL, CARRIER LEVEL

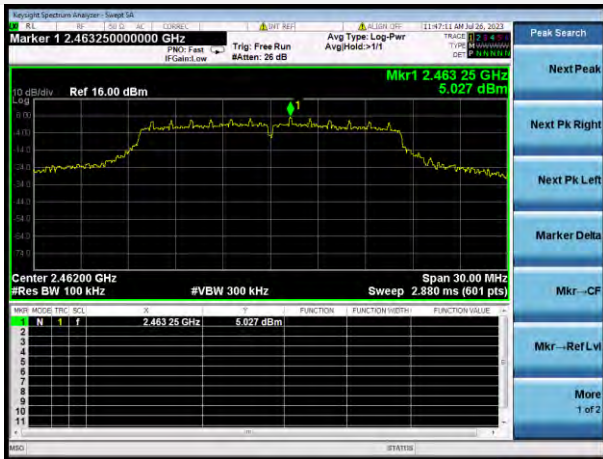


802.11g LOW CHANNEL, REFERENCE LEVEL

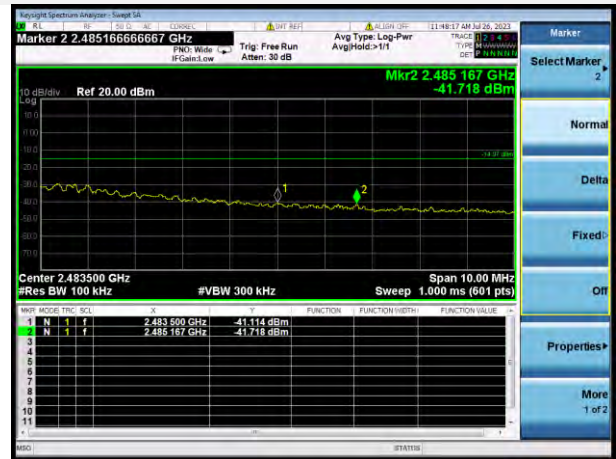




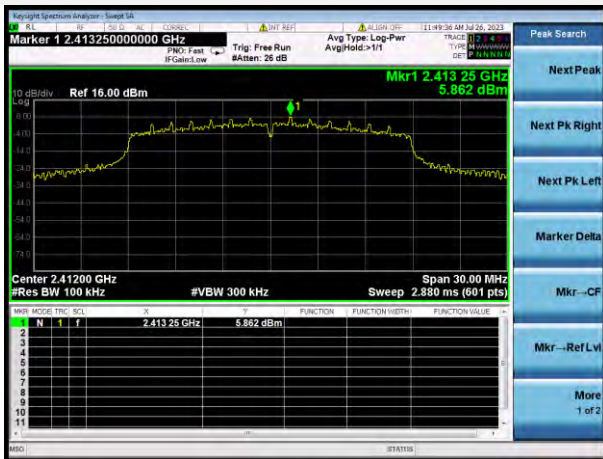
802.11g HIGH CHANNEL, CARRIER LEVEL



802.11g HIGH CHANNEL, REFERENCE LEVEL



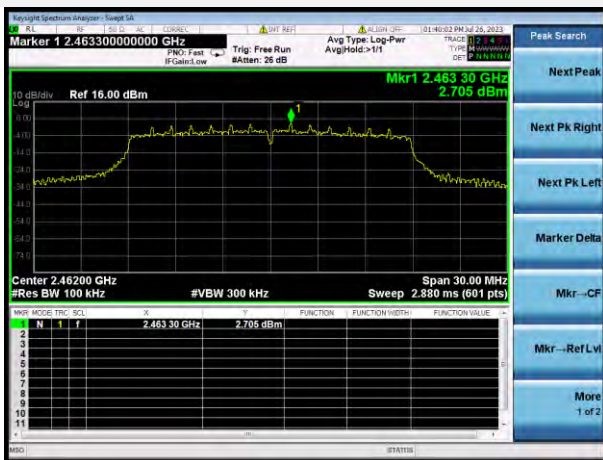
802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



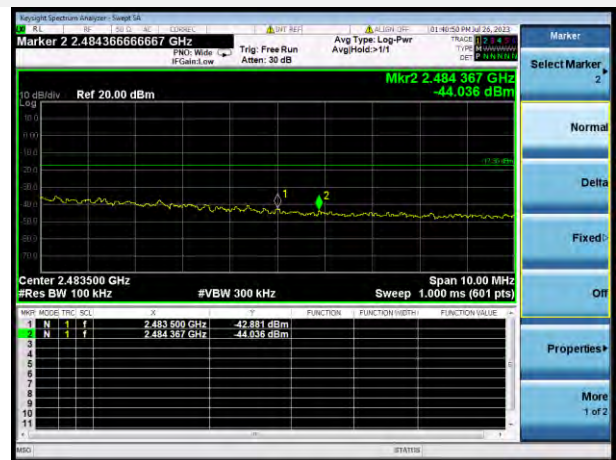
802.11n-20 MHz LOW CHANNEL, REFERENCE LEVEL



802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL

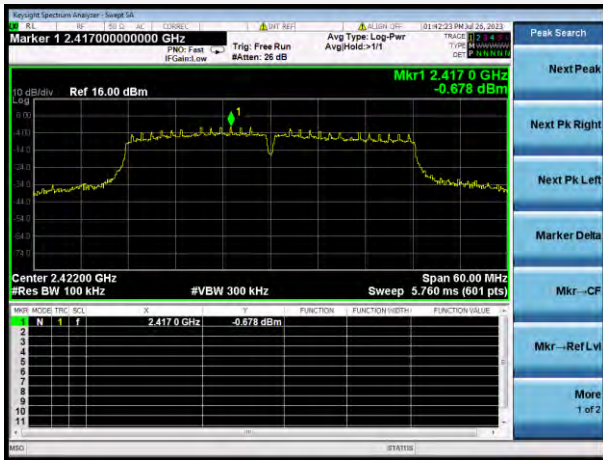


802.11n-20 MHz HIGH CHANNEL, REFERENCE LEVEL





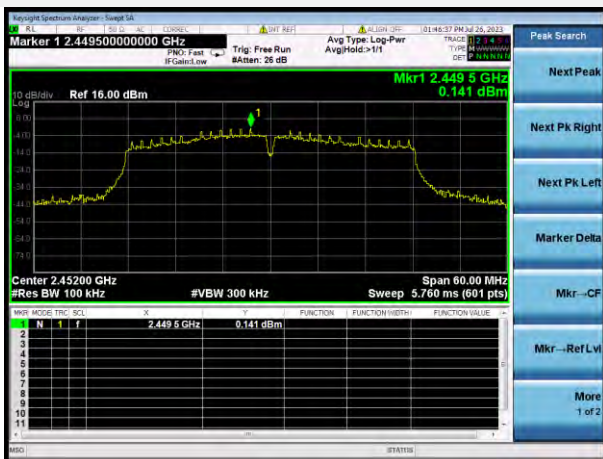
802.11n-40 MHz LOW CHANNEL, CARRIER LEVEL



802.11n-40 MHz LOW CHANNEL, REFERENCE LEVEL



802.11n-40 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-40 MHz HIGH CHANNEL, REFERENCE LEVEL

