

802.11g CH6



802.11g CH11



802.11n-20 MHz CH1



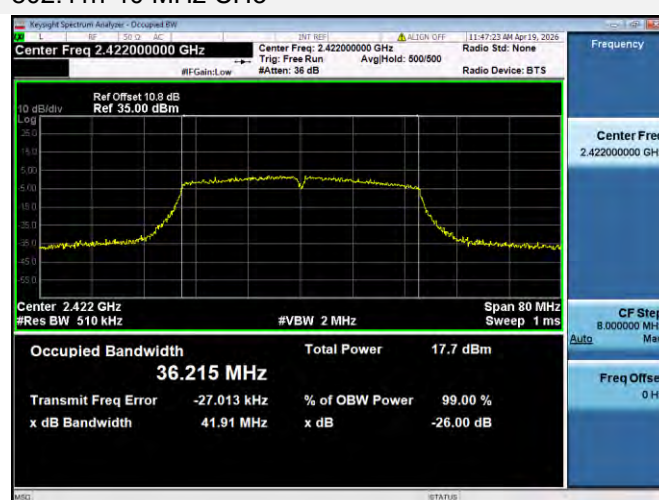
802.11n-20 MHz CH6



802.11n-20 MHz CH11



802.11n-40 MHz CH3



802.11n-40 MHz CH4



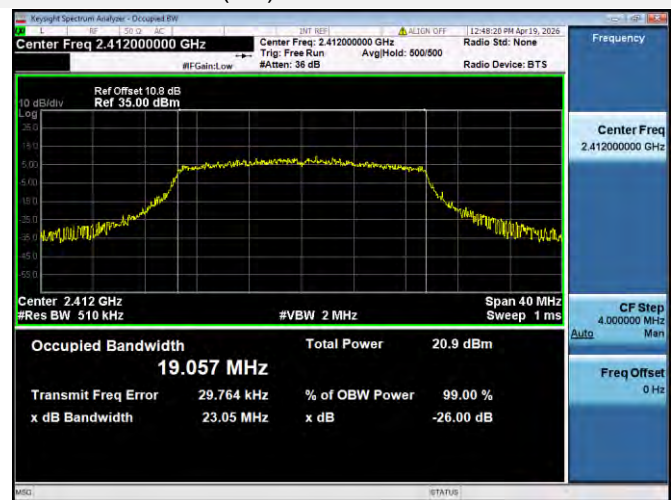
802.11n-40 MHz CH6



802.11n-40 MHz CH11



802.11ax-20 MHz(SU) CH1



802.11ax-20 MHz(SU) CH6



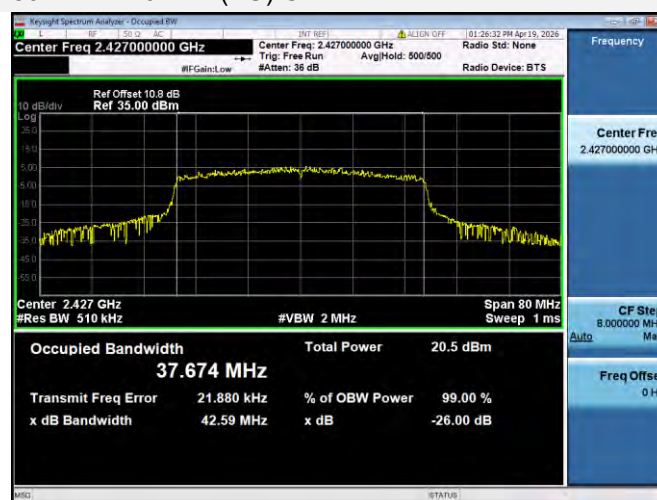
802.11ax-20 MHz(SU) CH11



802.11ax-40 MHz(SU) CH3



802.11ax-40 MHz(SU) CH4



802.11ax-40 MHz(SU) CH6



802.11ax-40 MHz(SU) CH9



A.3 Conducted Spurious Emissions

Note ¹: All the configurations were pre tested, only the worst configuration has been reported in this report.

Note ²: All antenna were pre tested, but only the worst case has been reported in this report.

Test Data

SISO-ANT0

802.11b Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH1	-25.40	4.84	-15.16	Pass
CH6	-27.09	6.55	-13.45	Pass
CH11	-25.81	6.62	-13.39	Pass

802.11g Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH1	-26.44	5.33	-14.67	Pass
CH6	-26.35	5.86	-14.14	Pass
CH11	-25.72	3.49	-16.51	Pass

802.11n-20MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH1	-26.24	3.46	-16.54	Pass
CH6	-26.44	3.06	-16.94	Pass
CH11	-27.46	4.61	-15.39	Pass

802.11n-40MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH3	-25.85	-2.23	-22.23	Pass
CH4	-27.13	0.26	-19.74	Pass
CH6	-26.33	0.14	-19.86	Pass
CH9	-25.47	-1.12	-21.12	Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH1	-25.59	2.35	-17.65	Pass
CH6	-25.60	2.06	-17.94	Pass
CH11	-27.57	2.43	-17.57	Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH3	-27.04	-4.39	-24.39	Pass
CH4	-27.65	-0.78	-20.78	Pass
CH6	-27.65	-0.78	-20.78	Pass
CH9	-26.35	0.74	-19.26	Pass

SISO-ANT1

802.11b Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH1	-26.61	7.48	-12.52	Pass
CH6	-25.60	6.41	-13.59	Pass
CH11	-26.30	6.44	-13.56	Pass

802.11g Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH1	-26.94	6.22	-13.78	Pass
CH6	-26.03	4.83	-15.17	Pass
CH11	-27.28	3.25	-16.75	Pass

802.11n-20MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH1	-26.40	3.51	-16.49	Pass
CH6	-26.94	3.00	-17.00	Pass
CH11	-26.54	4.27	-15.74	Pass

802.11n-40MHz Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH3	-26.20	-2.11	-22.11	Pass
CH4	-26.08	0.37	-19.63	Pass
CH6	-27.11	-0.94	-20.94	Pass
CH9	-26.24	-1.27	-21.27	Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH1	-25.28	2.58	-17.42	Pass
CH6	-27.52	2.01	-17.99	Pass
CH11	-27.57	2.37	-17.63	Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH3	-26.22	-4.07	-24.07	Pass
CH4	-26.23	-0.71	-20.71	Pass
CH6	-27.36	-0.90	-20.90	Pass
CH9	-26.47	-1.88	-21.88	Pass

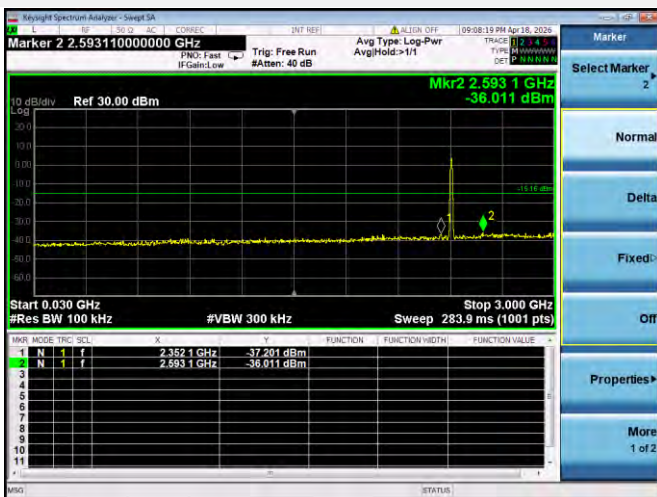
Test Plots

SISO-ANT0

802.11b CH1 CARRIER LEVEL



802.11b CH1, SPURIOUS 30 MHz ~ 3 GHz



802.11b CH1, SPURIOUS 2 GHz ~ 25 GHz

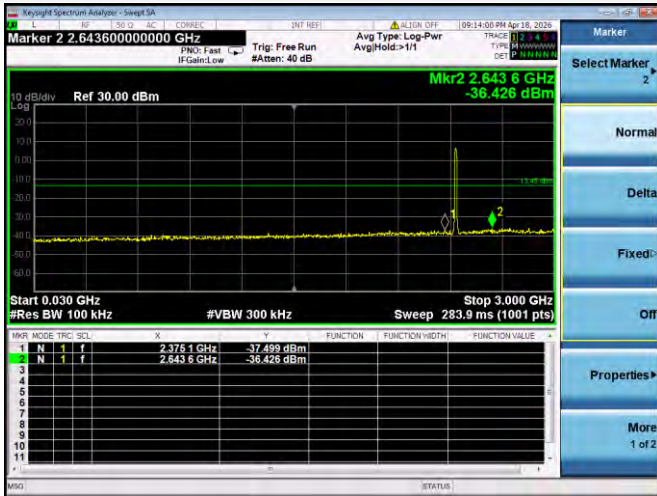


802.11b CH6 CARRIER LEVEL



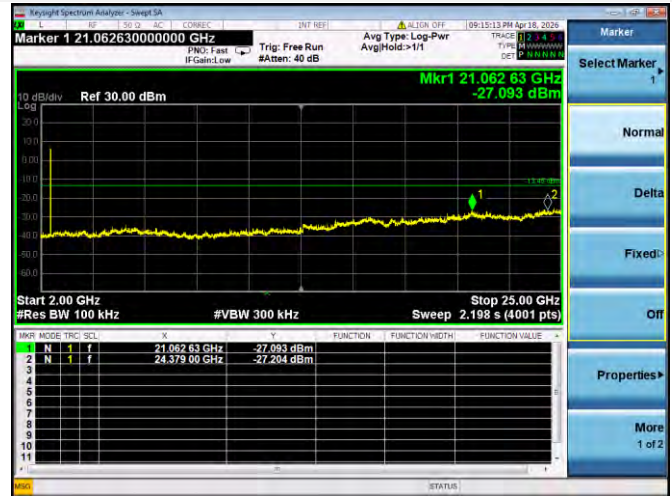
802.11b CH6, SPURIOUS

30 MHz ~ 3 GHz



802.11b CH6, SPURIOUS

2 GHz ~ 25 GHz

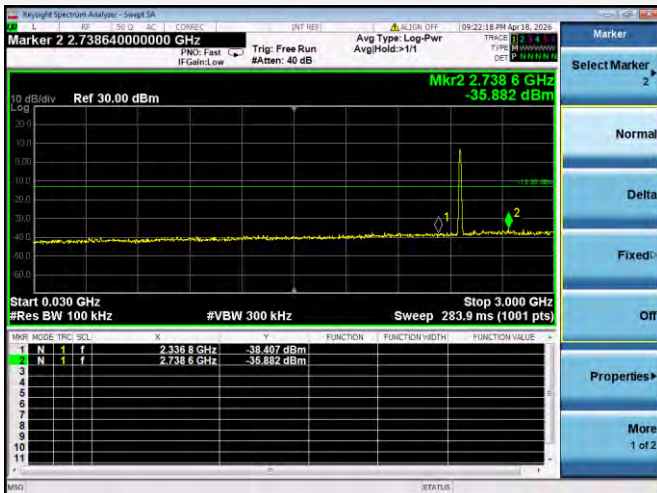


802.11b CH11 CARRIER LEVEL



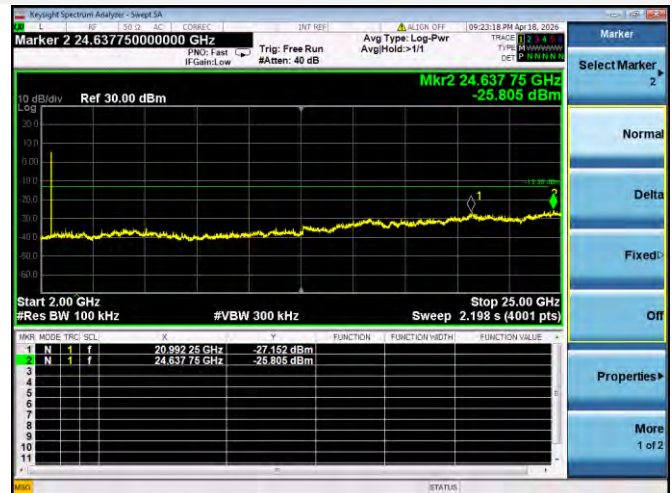
802.11b CH11, SPURIOUS

30 MHz ~ 3 GHz

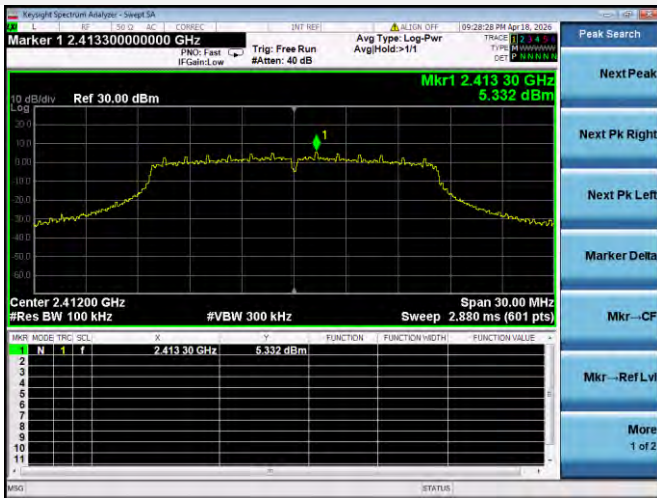


802.11b CH11, SPURIOUS

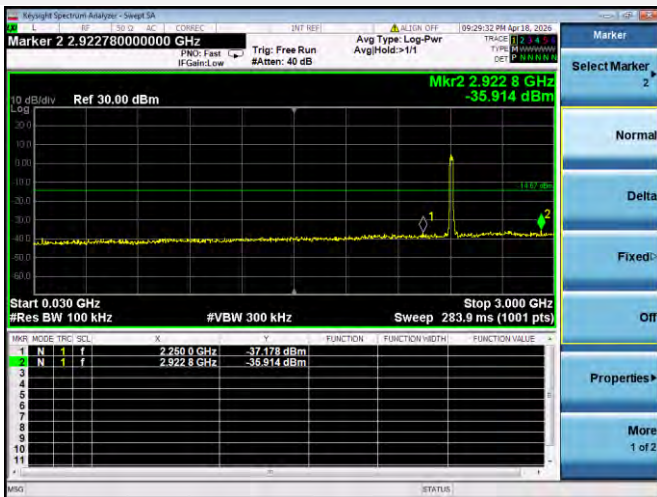
2 GHz ~ 25 GHz



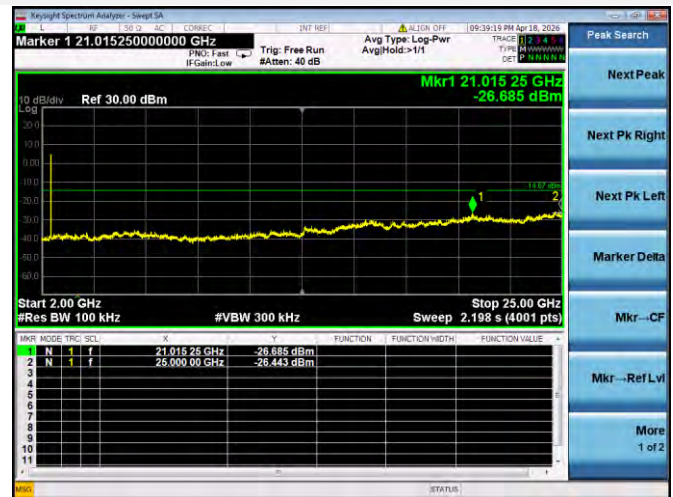
802.11g CH1 CARRIER LEVEL



802.11g CH1, SPURIOUS 30 MHz ~ 3 GHz



802.11g CH1, SPURIOUS 2 GHz ~ 25 GHz

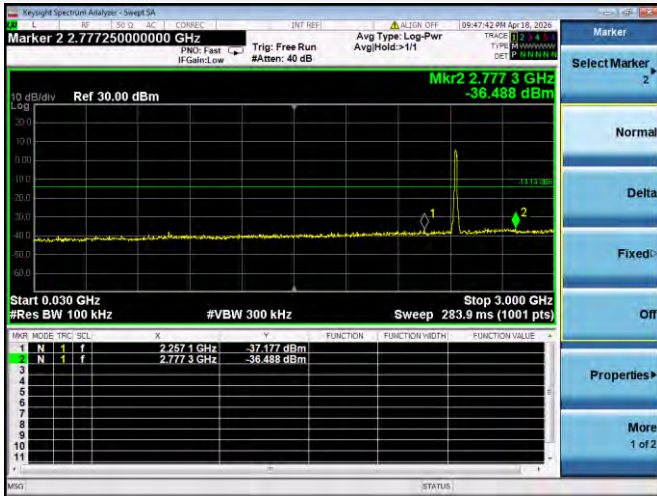


802.11g CH6 CARRIER LEVEL



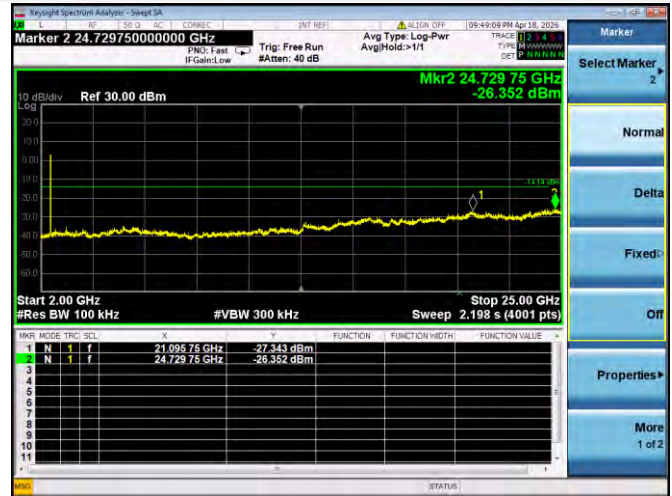
802.11g CH6, SPURIOUS

30 MHz ~ 3 GHz



802.11g CH6, SPURIOUS

2 GHz ~ 25 GHz

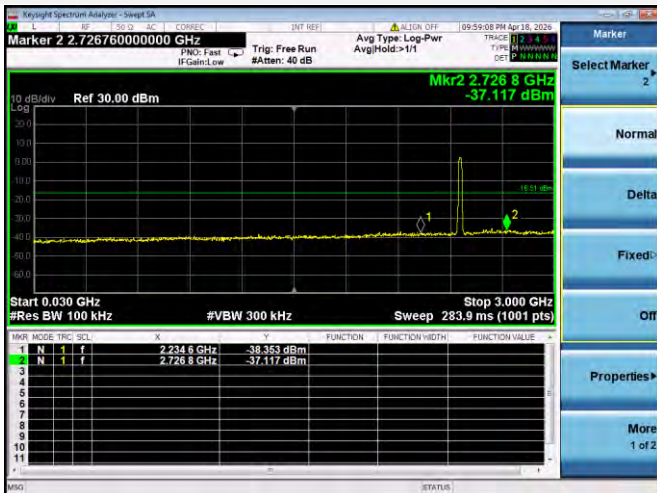


802.11g CH11 CARRIER LEVEL



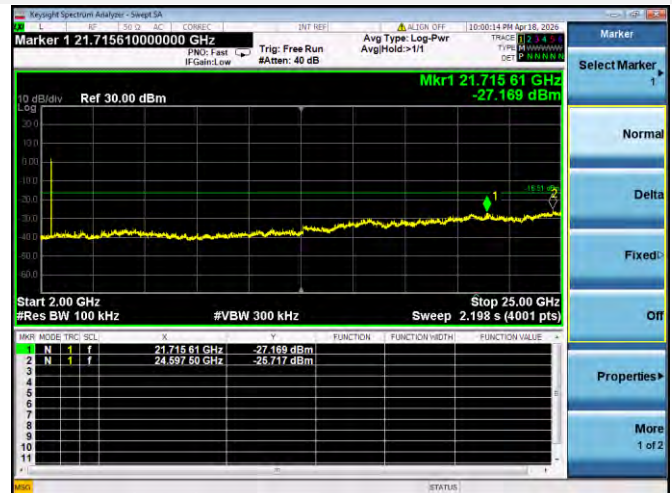
802.11g CH11, SPURIOUS

30 MHz ~ 3 GHz

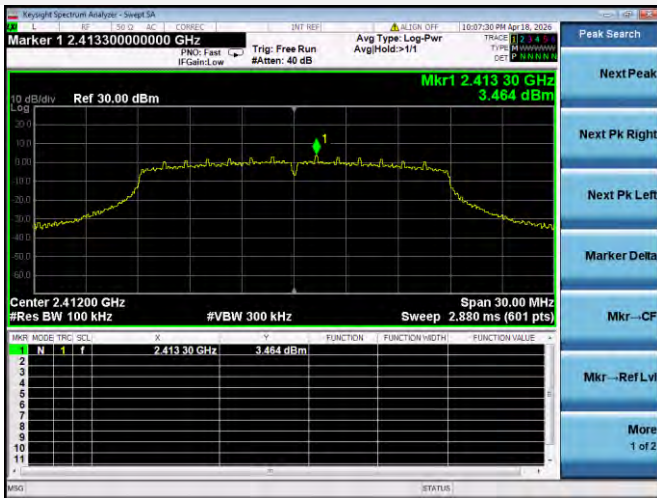
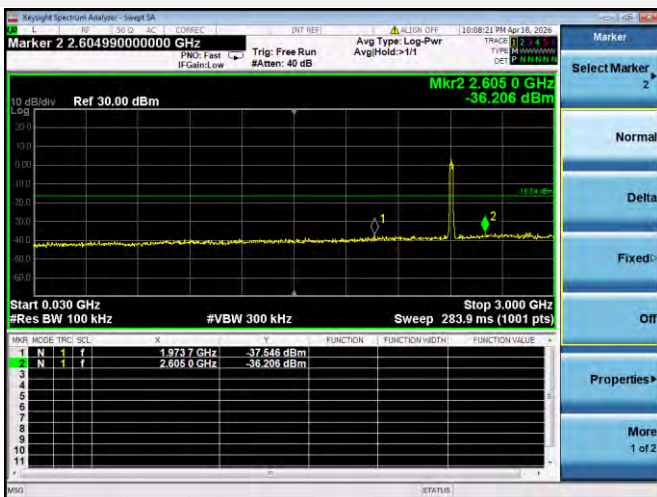
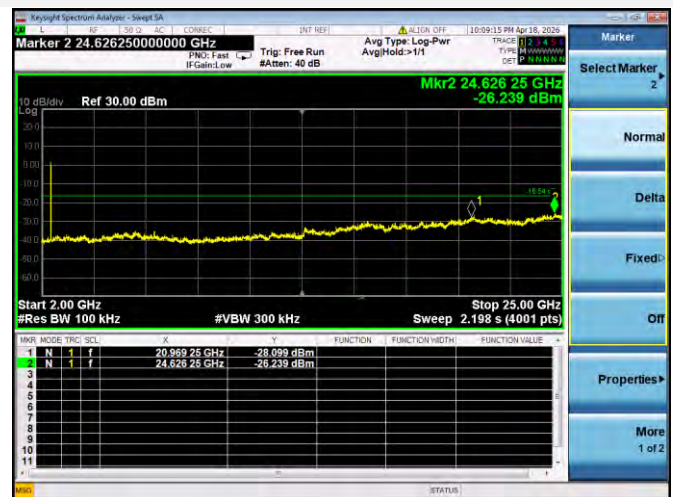


802.11g CH11, SPURIOUS

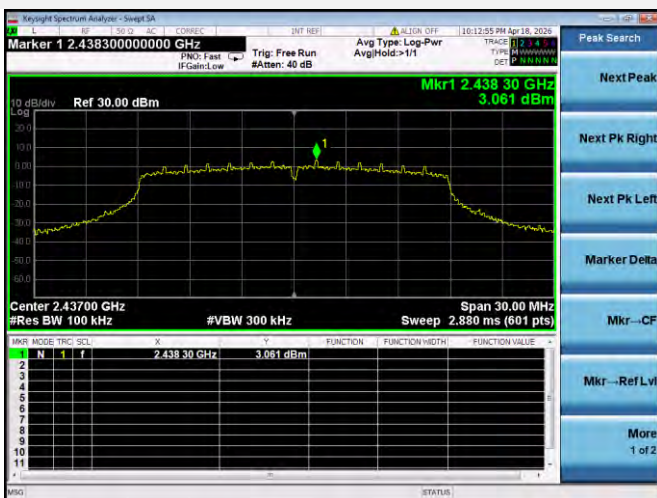
2 GHz ~ 25 GHz



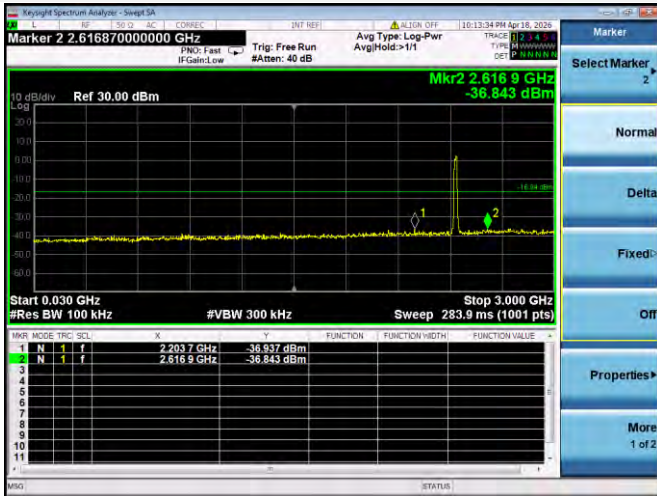
802.11n-20 MHz CH1 CARRIER LEVEL

802.11n-20 MHz CH1, SPURIOUS
30 MHz ~ 3 GHz802.11n-20 MHz CH1, SPURIOUS
2 GHz ~ 25 GHz

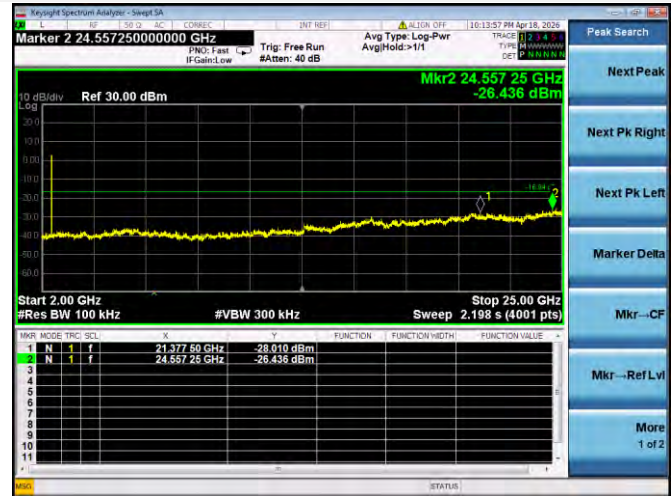
802.11n-20 MHz CH6 CARRIER LEVEL



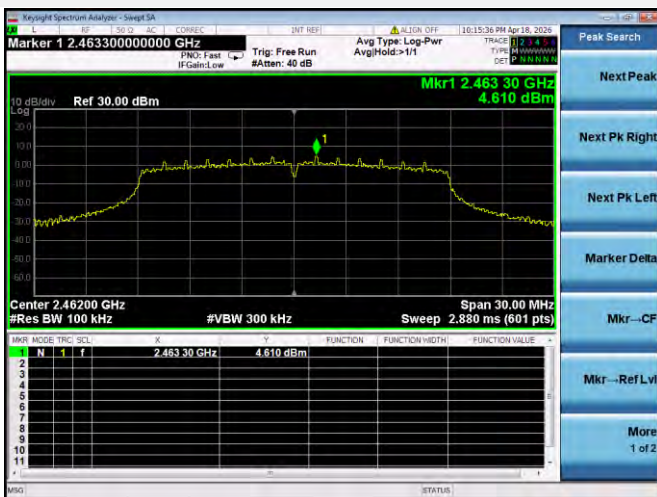
802.11n-20 MHz CH6, SPURIOUS 30 MHz ~ 3 GHz



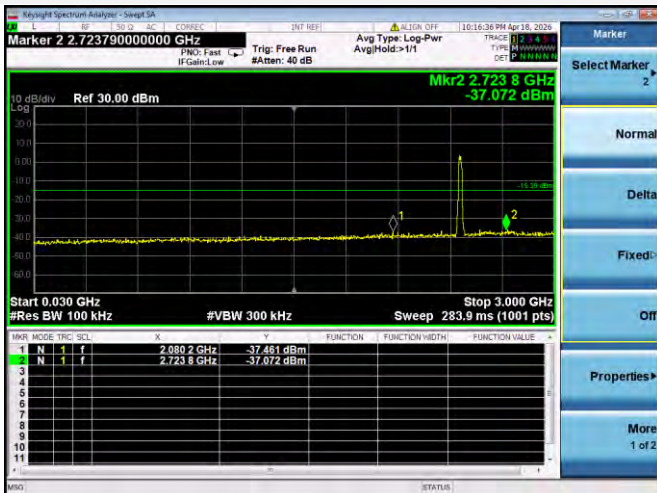
802.11n-20 MHz CH6, SPURIOUS 2 GHz ~ 25 GHz



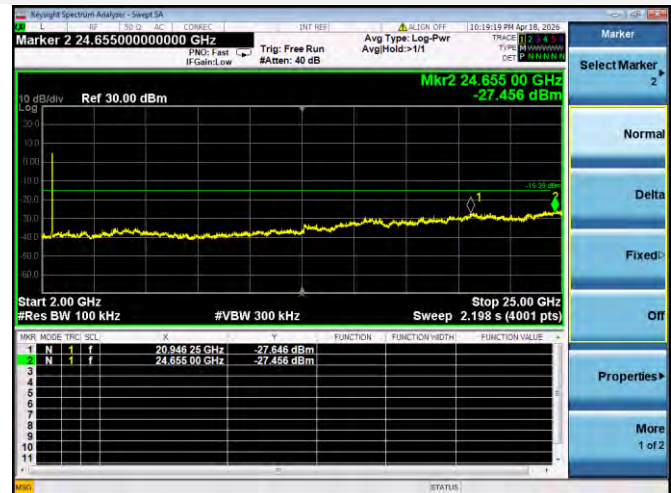
802.11n-20 MHz CH11 CARRIER LEVEL



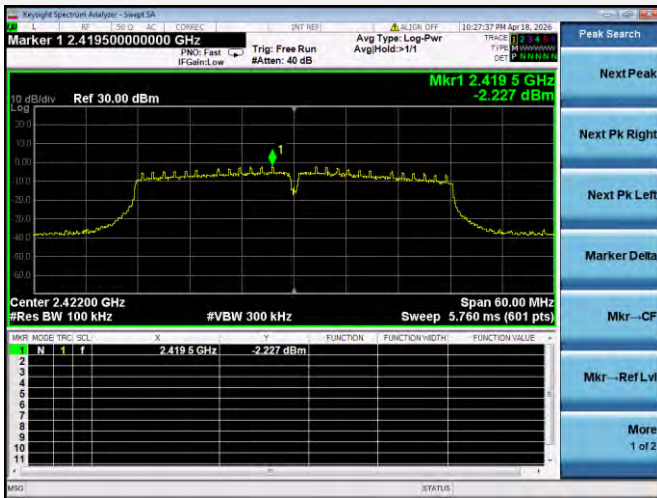
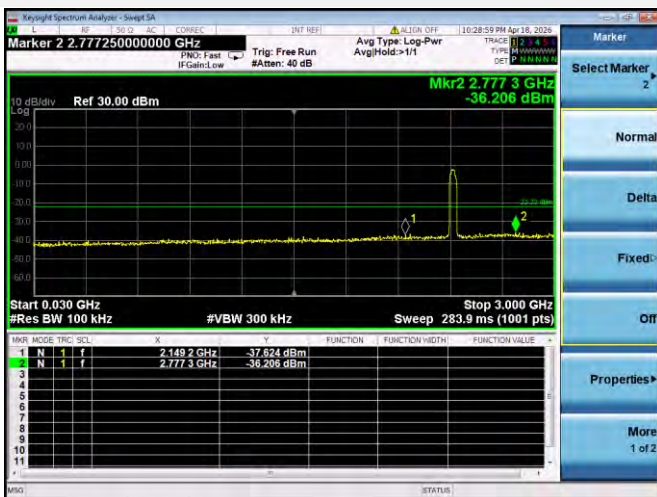
802.11n-20 MHz CH11, SPURIOUS 30 MHz ~ 3 GHz



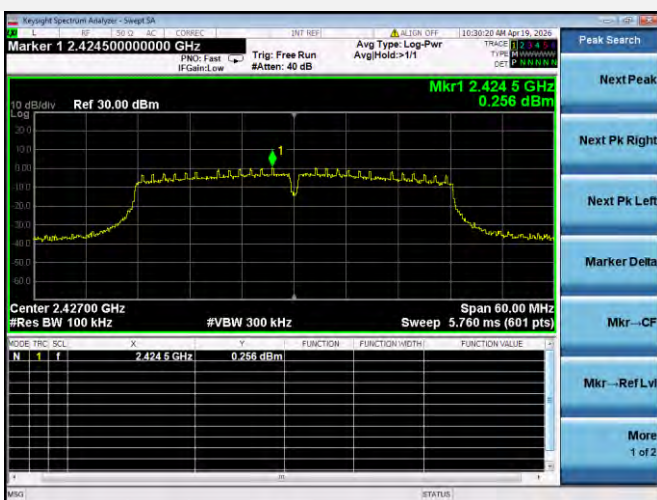
802.11n-20 MHz CH11, SPURIOUS 2 GHz ~ 25 GHz



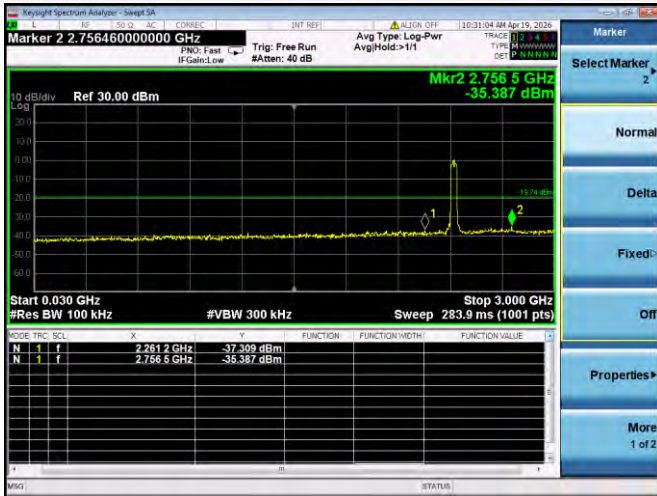
802.11n-40 MHz CH3 CARRIER LEVEL

802.11n-40 MHz CH3, SPURIOUS
30 MHz ~ 3 GHz802.11n-40 MHz CH3, SPURIOUS
2 GHz ~ 25 GHz

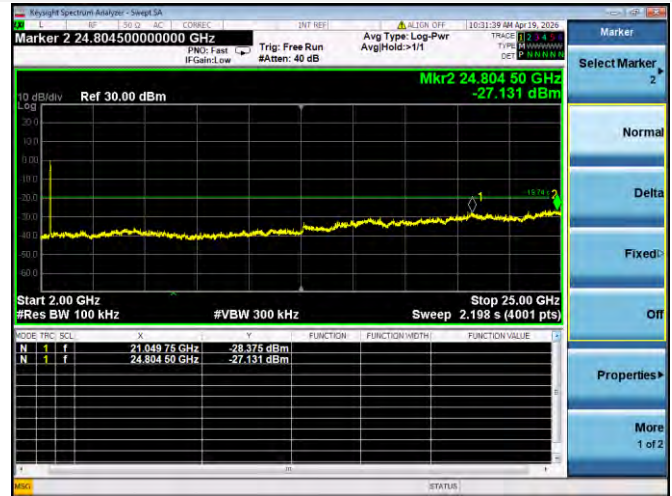
802.11n-40 MHz CH4 CARRIER LEVEL



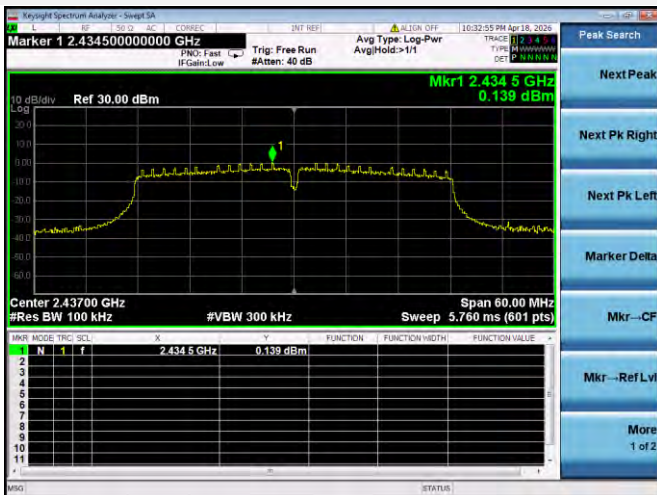
802.11n-40 MHz CH4, SPURIOUS 30 MHz ~ 3 GHz



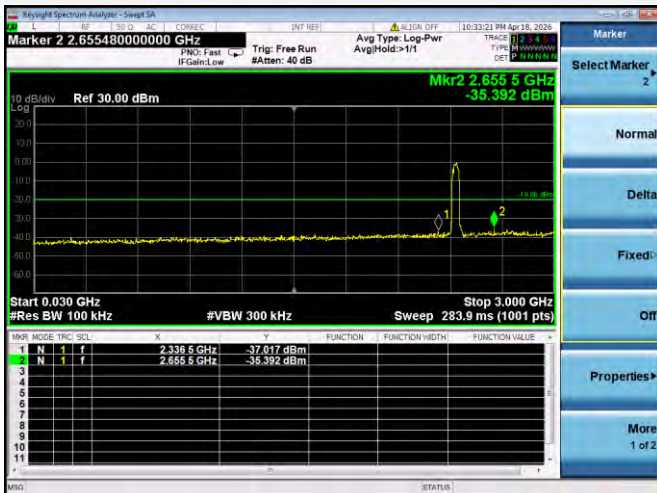
802.11n-40 MHz CH4, SPURIOUS 2 GHz ~ 25 GHz



802.11n-40 MHz CH6 CARRIER LEVEL



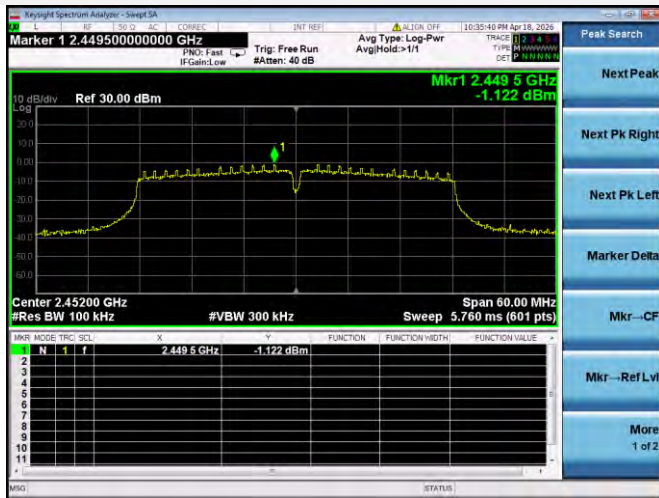
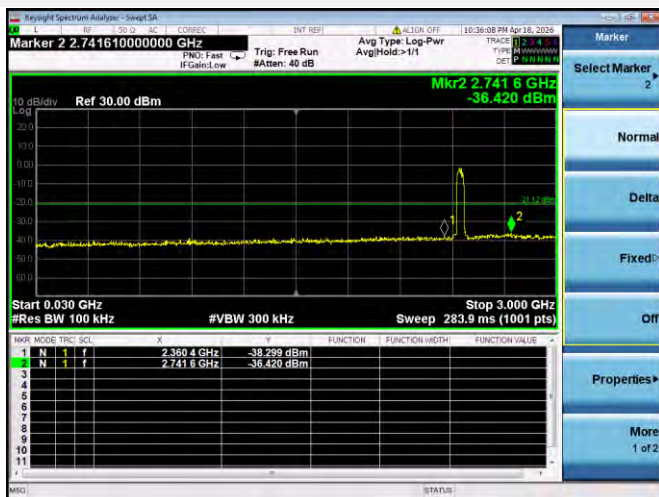
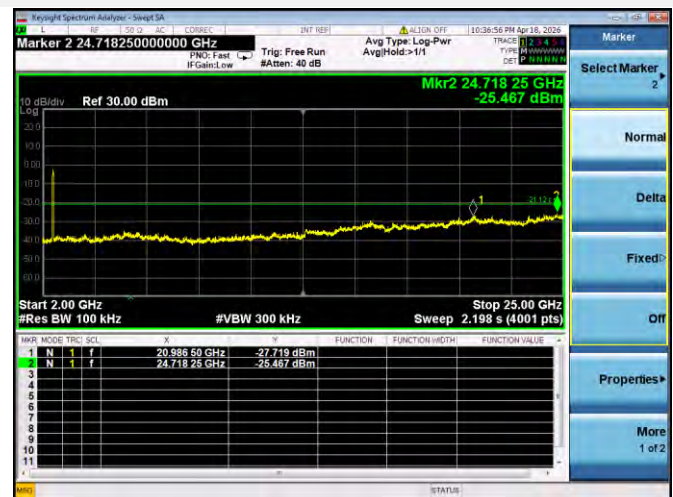
802.11n-40 MHz CH6, SPURIOUS 30 MHz ~ 3 GHz



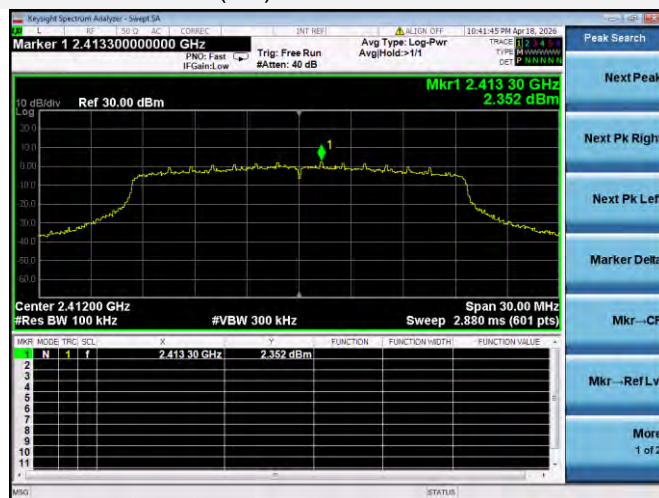
802.11n-40 MHz CH6, SPURIOUS 2 GHz ~ 25 GHz



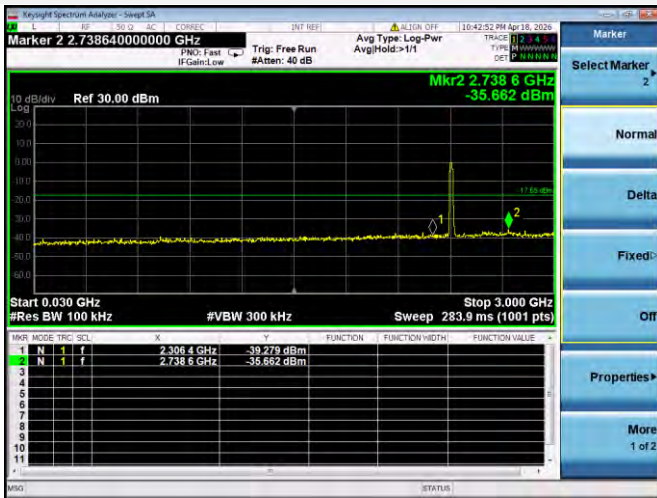
802.11n-40 MHz CH9 CARRIER LEVEL

802.11n-40 MHz CH9, SPURIOUS
30 MHz ~ 3 GHz802.11n-40 MHz CH9, SPURIOUS
2 GHz ~ 25 GHz

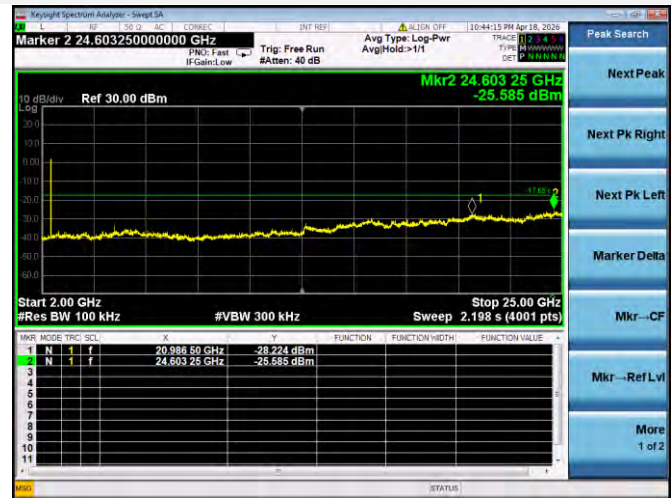
802.11ax-20 MHz(SU) CH1 CARRIER LEVEL



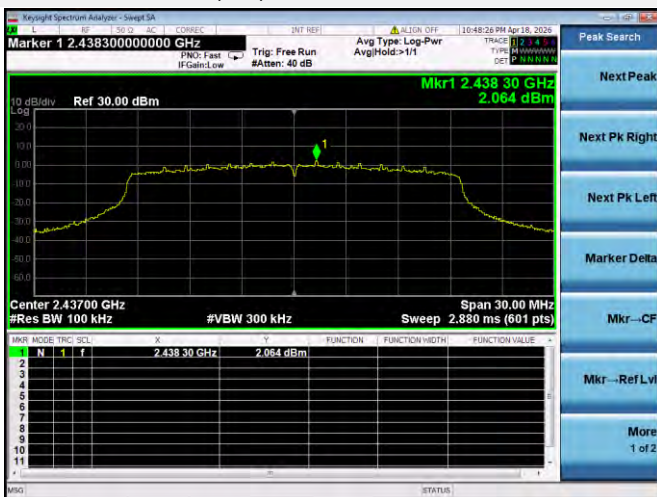
802.11ax-20 MHz(SU) CH1, SPURIOUS 30 MHz ~ 3 GHz



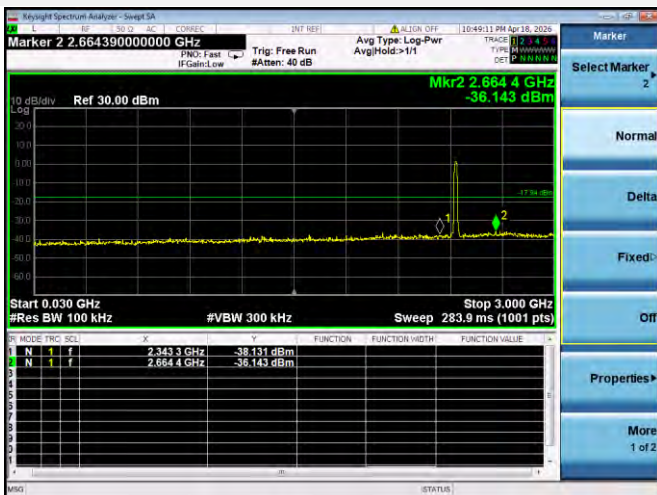
802.11ax-20 MHz(SU) CH1, SPURIOUS 2 GHz ~ 25 GHz



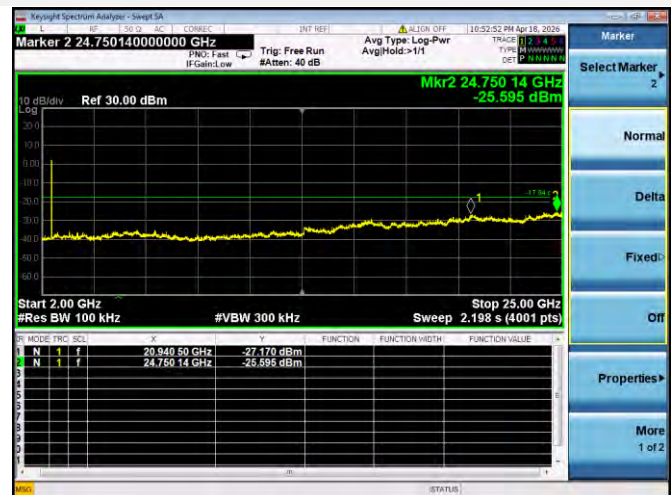
802.11ax-20 MHz(SU) CH6 CARRIER LEVEL



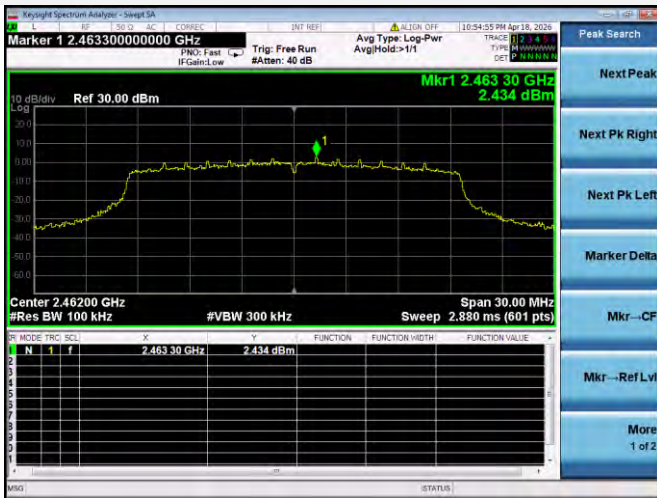
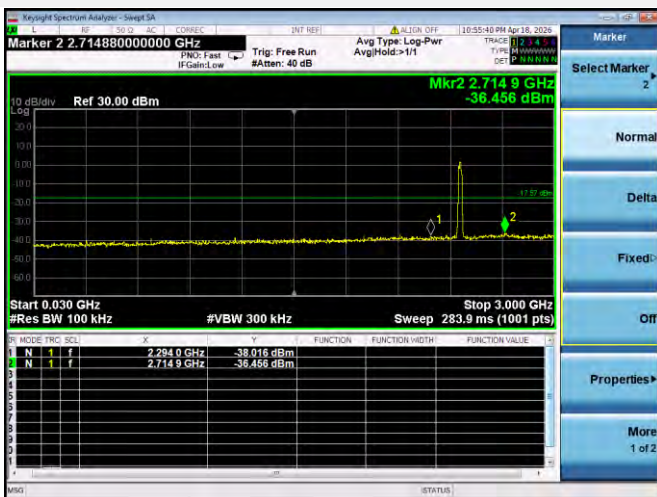
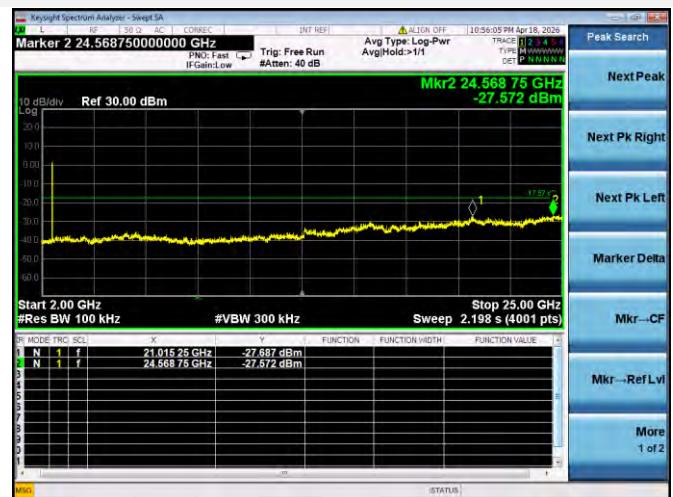
802.11ax-20 MHz(SU) CH6, SPURIOUS 30 MHz ~ 3 GHz



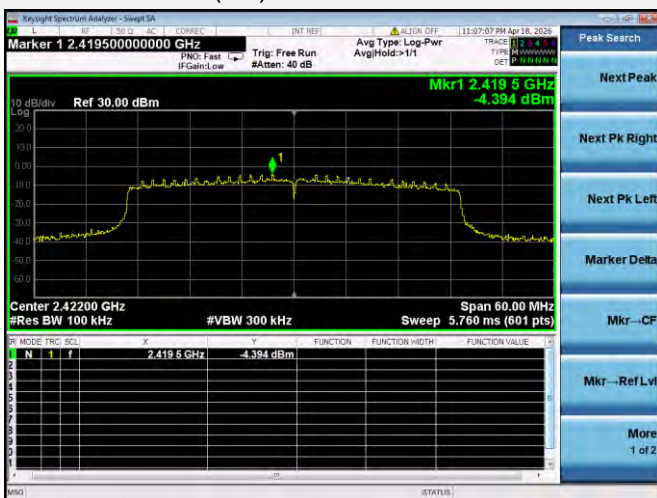
802.11ax-20 MHz(SU) CH6, SPURIOUS 2 GHz ~ 25 GHz



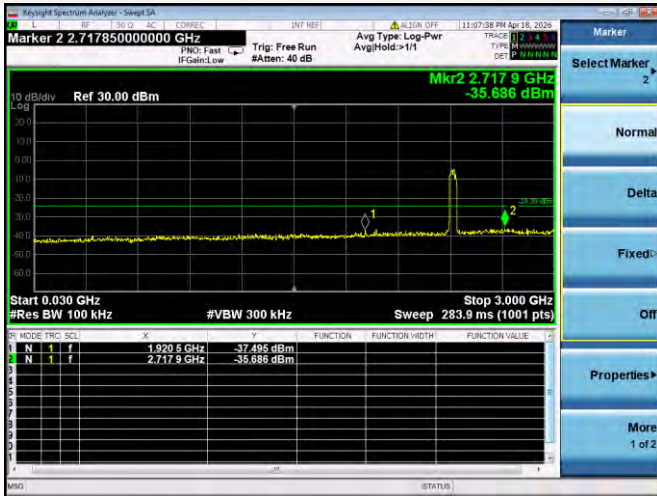
802.11ax-20 MHz(SU) CH11 CARRIER LEVEL

802.11ax-20 MHz(SU) CH11, SPURIOUS
30 MHz ~ 3 GHz802.11ax-20 MHz(SU) CH11, SPURIOUS
2 GHz ~ 25 GHz

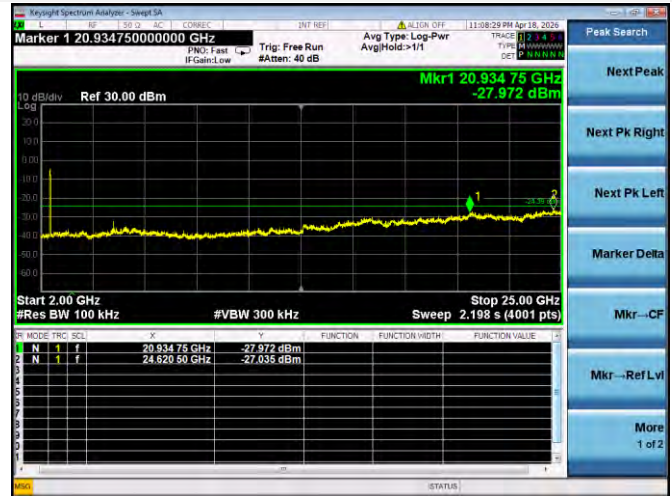
802.11ax-40 MHz(SU) CH3 CARRIER LEVEL



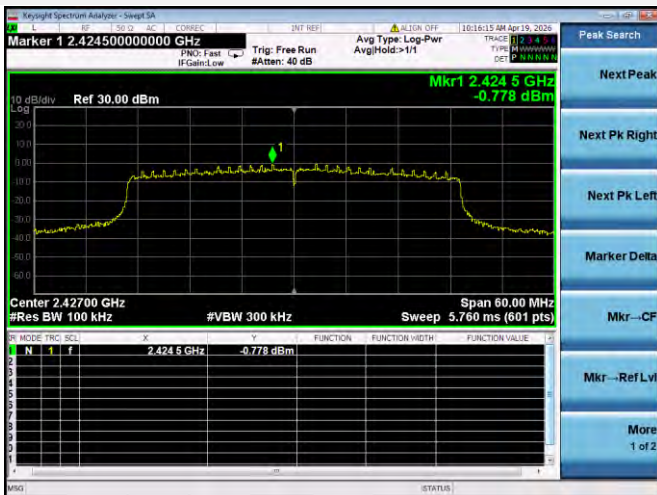
802.11ax-40 MHz(SU) CH3, SPURIOUS 30 MHz ~ 3 GHz



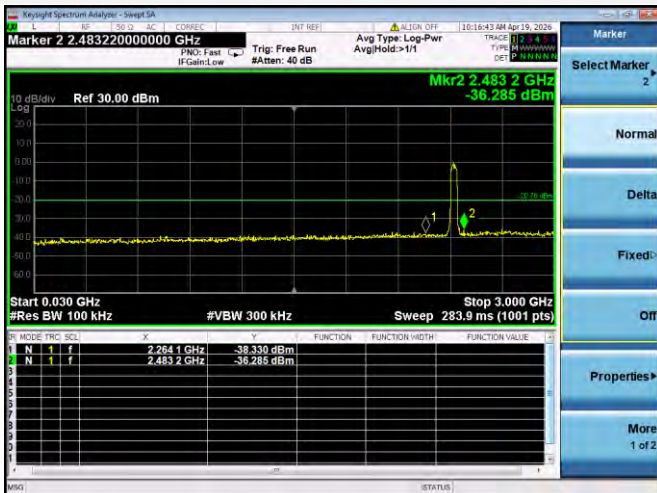
802.11ax-40 MHz(SU) CH3, SPURIOUS 2 GHz ~ 25 GHz



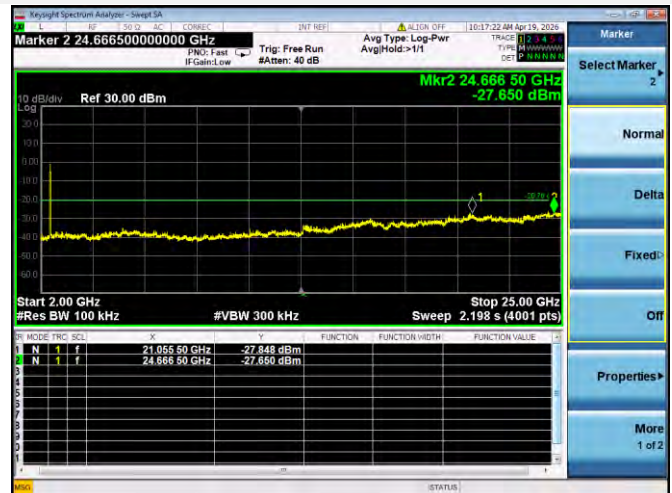
802.11ax-40 MHz(SU) CH4 CARRIER LEVEL



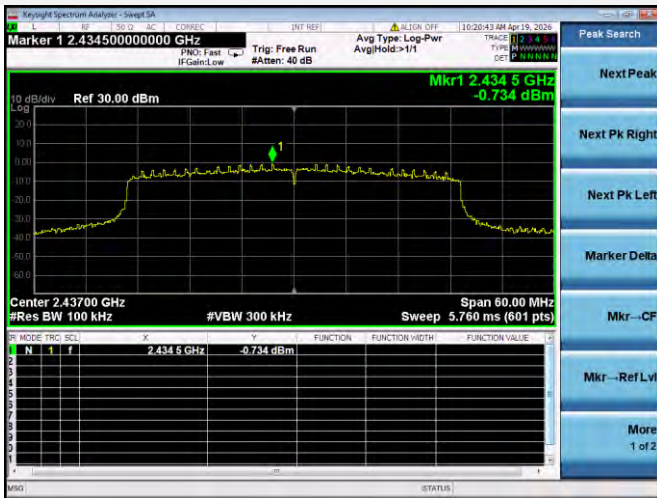
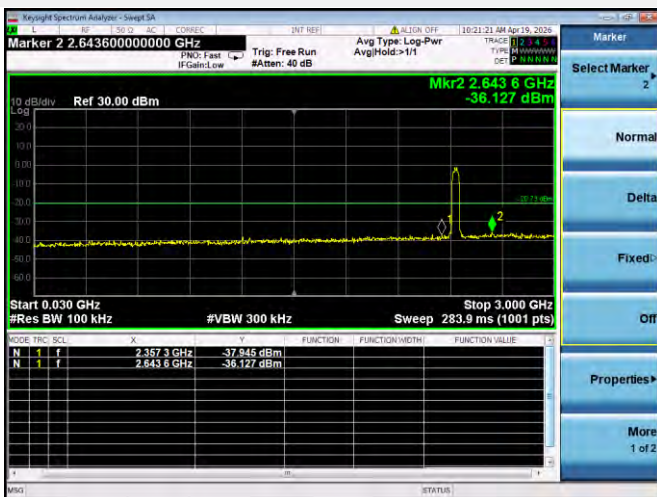
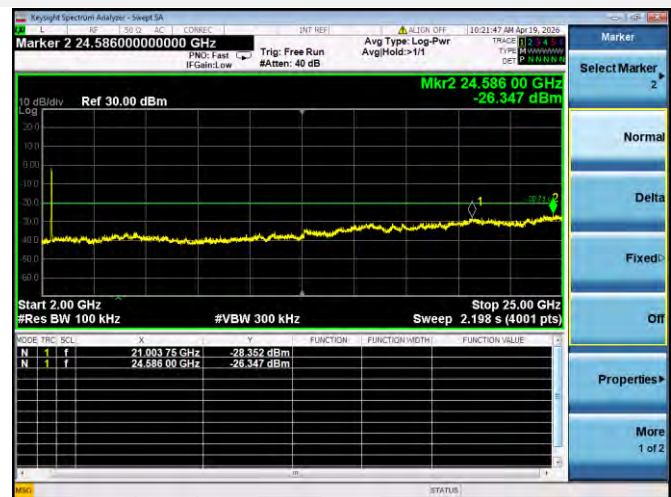
802.11ax-40 MHz(SU) CH4, SPURIOUS 30 MHz ~ 3 GHz



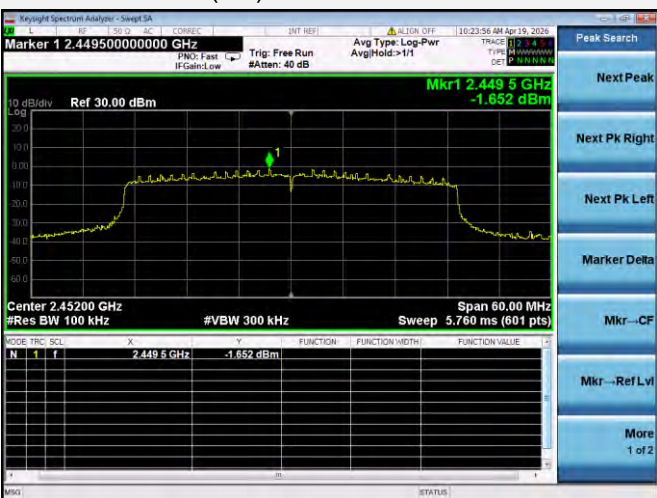
802.11ax-40 MHz(SU) CH4, SPURIOUS 2 GHz ~ 25 GHz

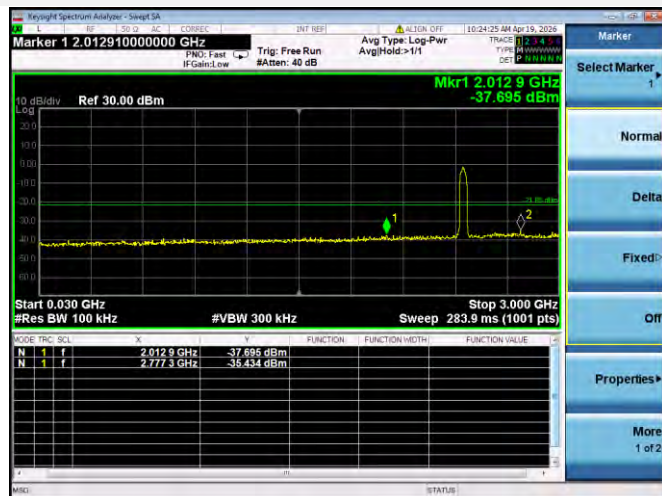
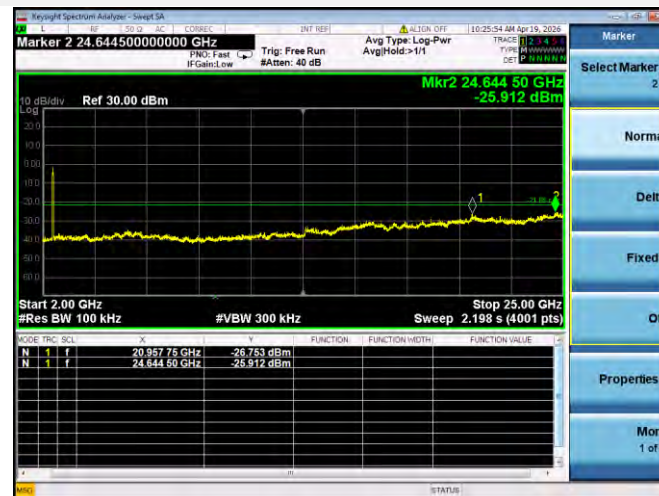


802.11ax-40 MHz(SU) CH6 CARRIER LEVEL

802.11ax-40 MHz(SU) CH6, SPURIOUS
30 MHz ~ 3 GHz802.11ax-40 MHz(SU) CH6, SPURIOUS
2 GHz ~ 25 GHz

802.11ax-40 MHz(SU) CH9 CARRIER LEVEL



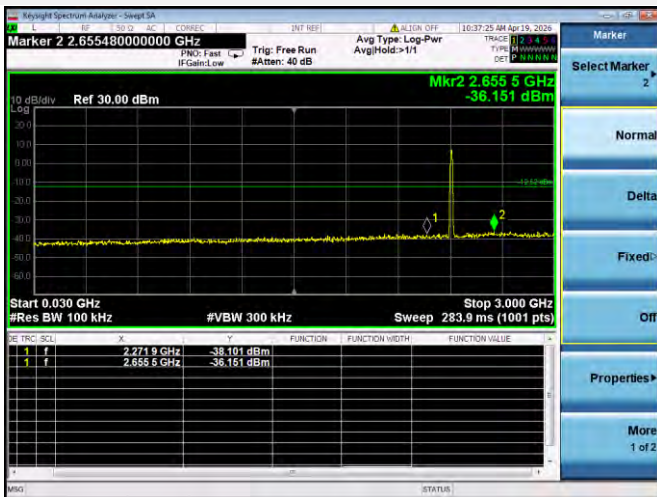
802.11ax-40 MHz(SU) CH9, SPURIOUS
30 MHz ~ 3 GHz802.11ax-40 MHz(SU) CH9, SPURIOUS
2 GHz ~ 25 GHz

SISO-ANT1

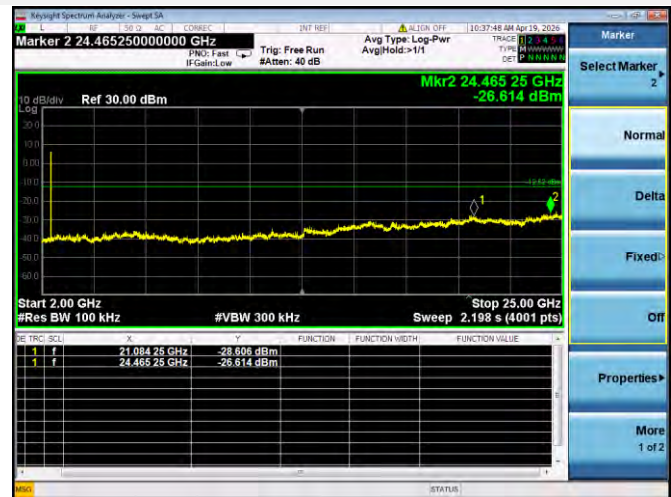
802.11b CH1 CARRIER LEVEL



802.11b CH1, SPURIOUS 30 MHz ~ 3 GHz



802.11b CH1, SPURIOUS 2 GHz ~ 25 GHz

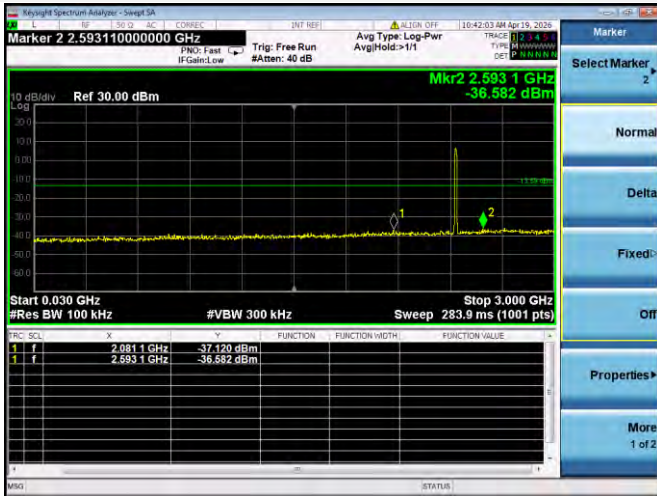


802.11b CH6 CARRIER LEVEL



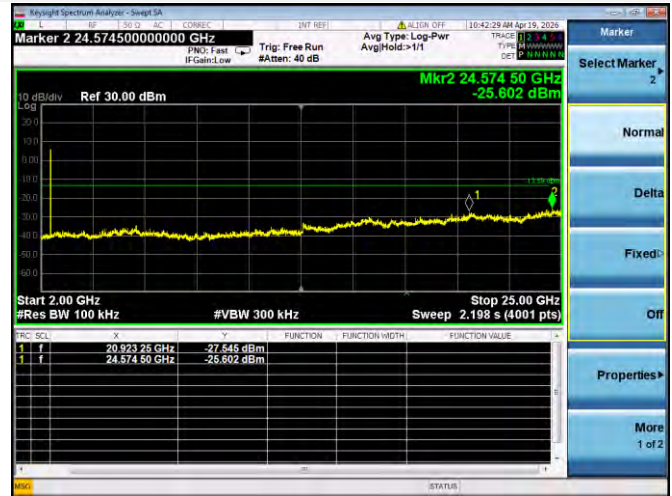
802.11b CH6, SPURIOUS

30 MHz ~ 3 GHz



802.11b CH6, SPURIOUS

2 GHz ~ 25 GHz

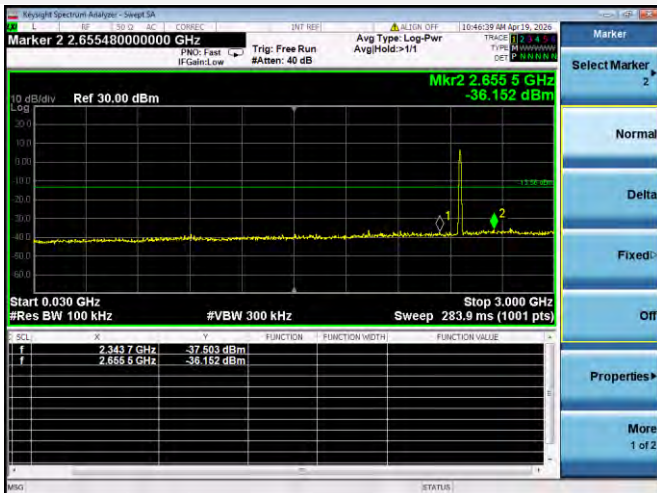


802.11b CH11 CARRIER LEVEL



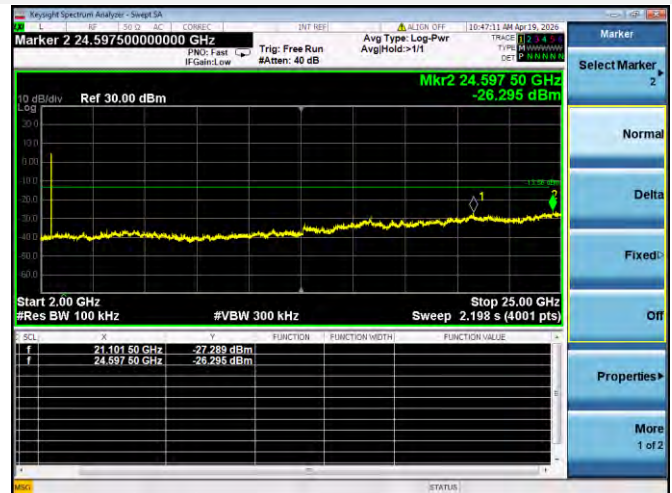
802.11b CH11, SPURIOUS

30 MHz ~ 3 GHz

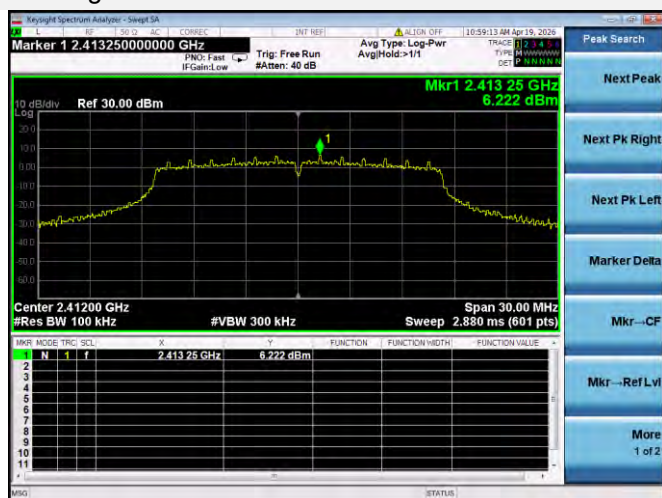


802.11b CH11, SPURIOUS

2 GHz ~ 25 GHz



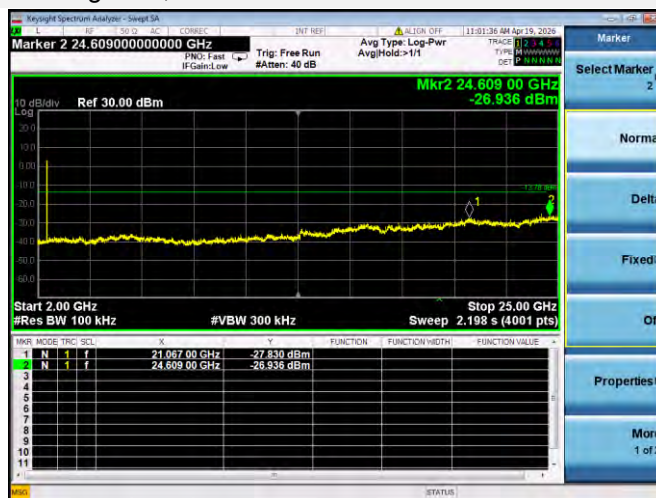
802.11g CH1 CARRIER LEVEL



802.11g CH1, SPURIOUS 30 MHz ~ 3 GHz



802.11g CH1, SPURIOUS 2 GHz ~ 25 GHz

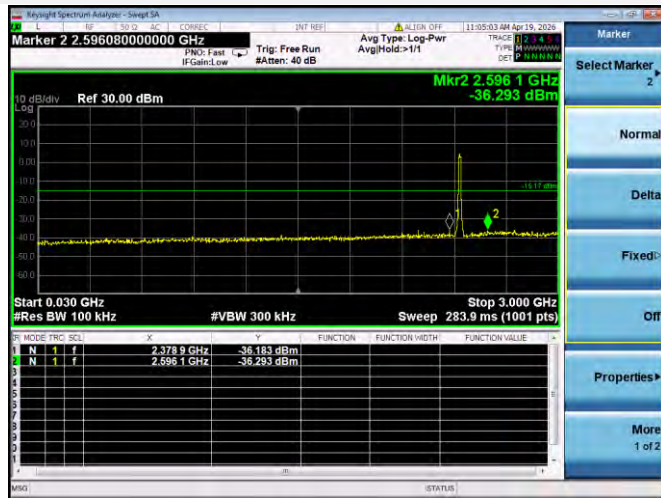


802.11g CH6 CARRIER LEVEL



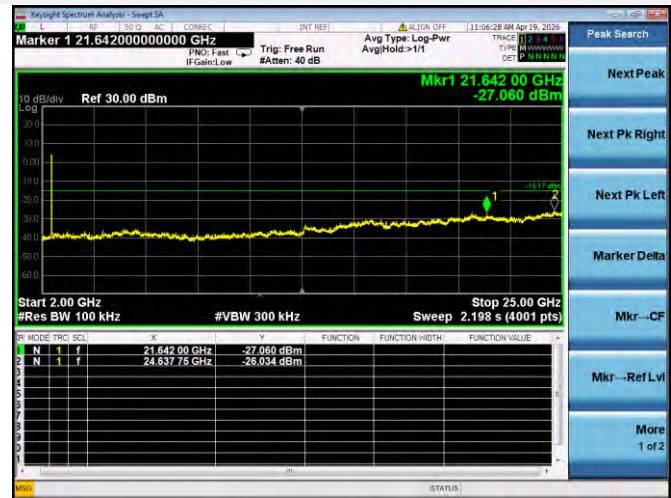
802.11g CH6, SPURIOUS

30 MHz ~ 3 GHz



802.11g CH6, SPURIOUS

2 GHz ~ 25 GHz

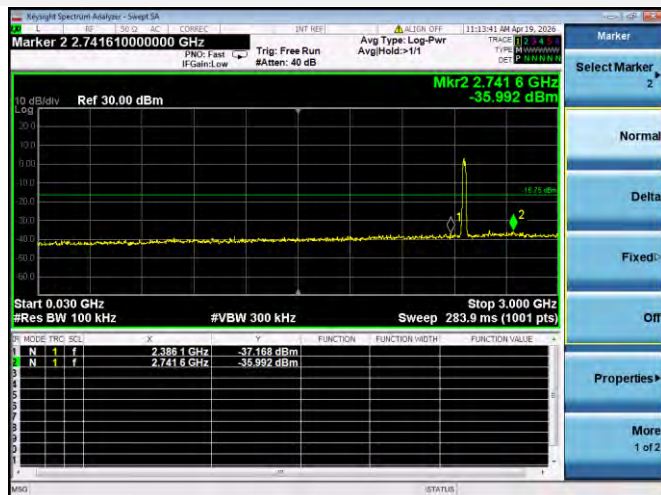


802.11g CH11 CARRIER LEVEL



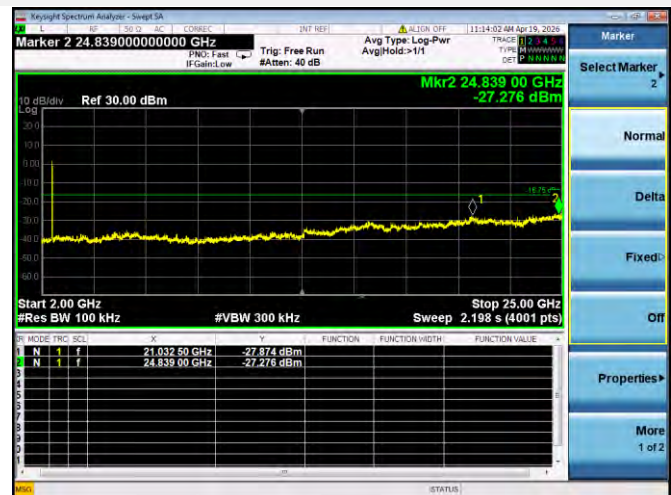
802.11g CH11, SPURIOUS

30 MHz ~ 3 GHz

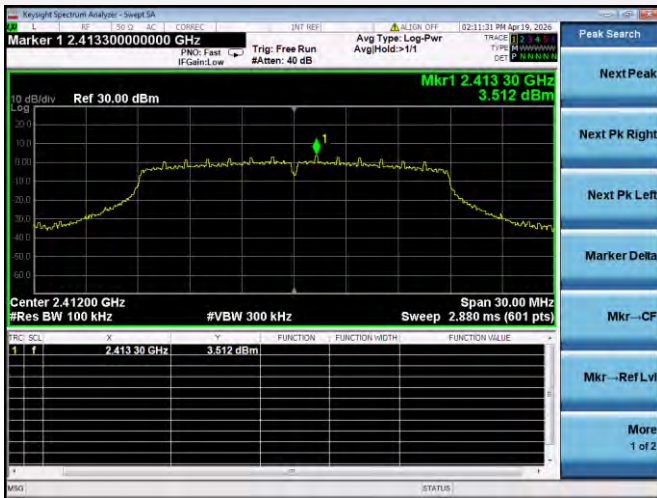
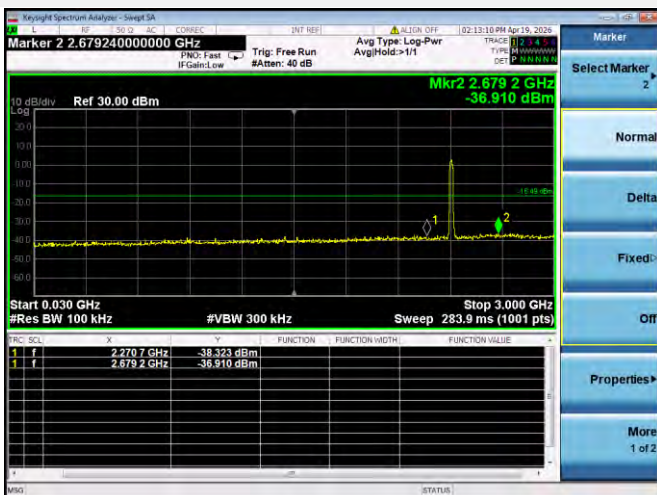
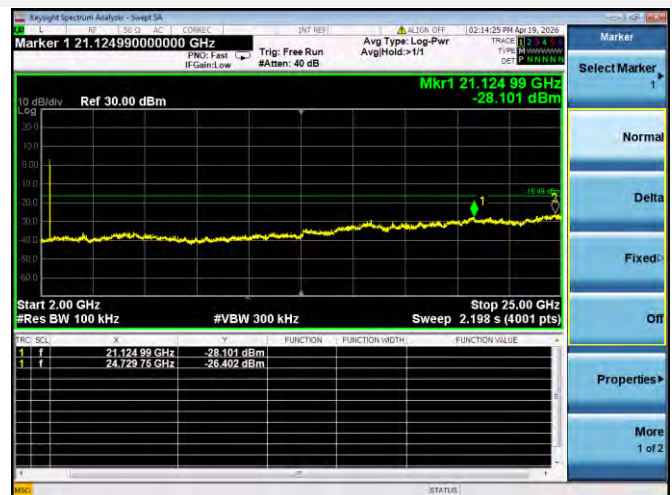


802.11g CH11, SPURIOUS

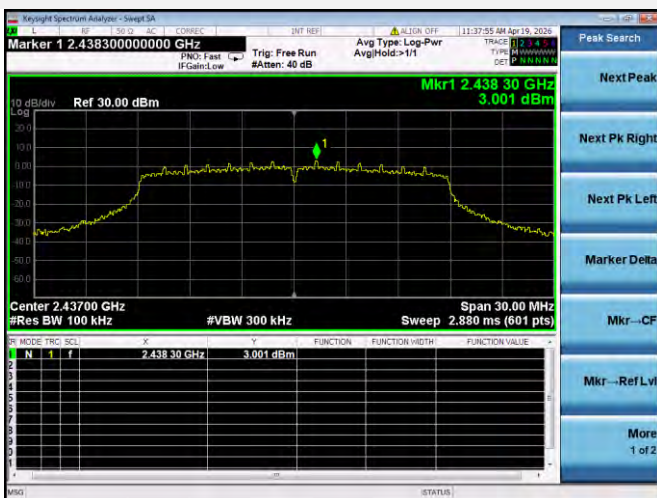
2 GHz ~ 25 GHz



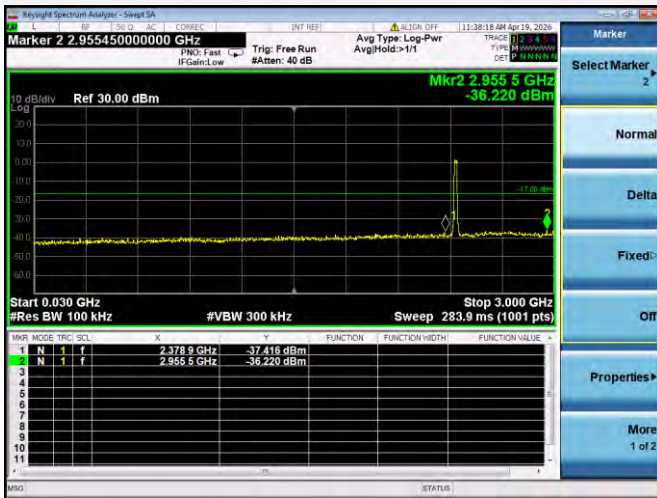
802.11n-20 MHz CH1 CARRIER LEVEL

802.11n-20 MHz CH1, SPURIOUS
30 MHz ~ 3 GHz802.11n-20 MHz CH1, SPURIOUS
2 GHz ~ 25 GHz

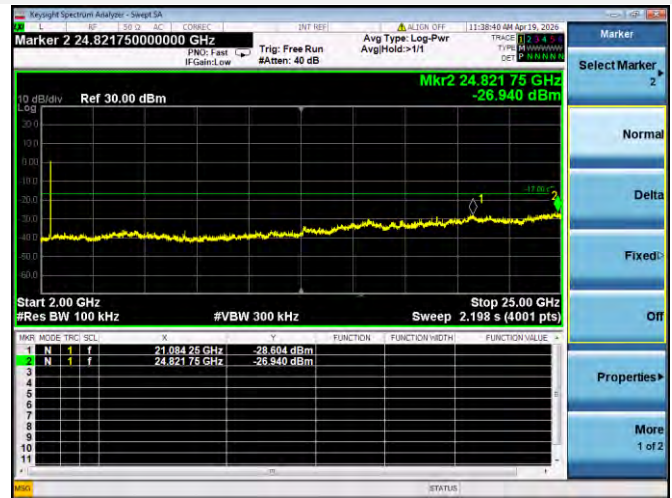
802.11n-20 MHz CH6 CARRIER LEVEL



802.11n-20 MHz CH6, SPURIOUS 30 MHz ~ 3 GHz



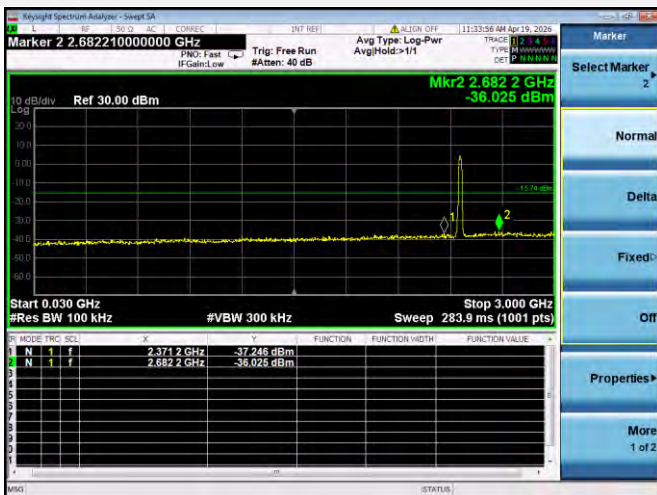
802.11n-20 MHz CH6, SPURIOUS 2 GHz ~ 25 GHz



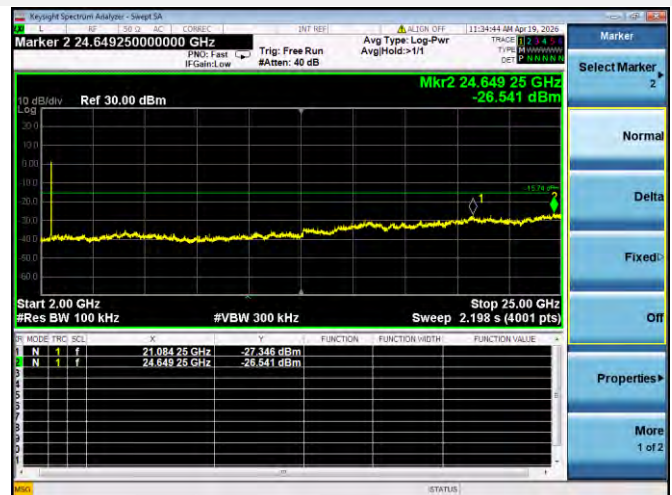
802.11n-20 MHz CH11 CARRIER LEVEL



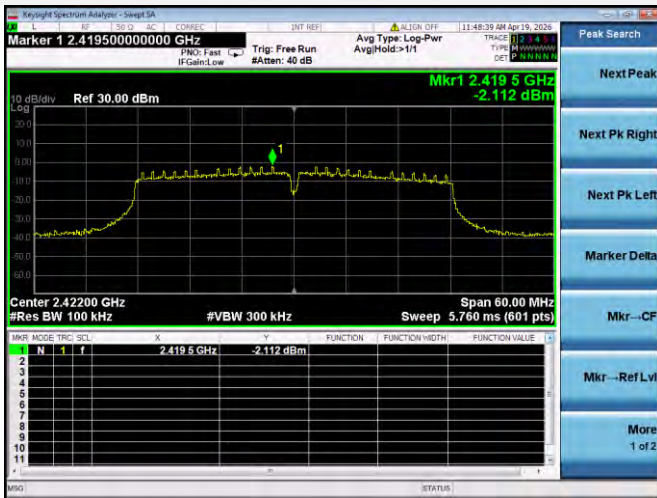
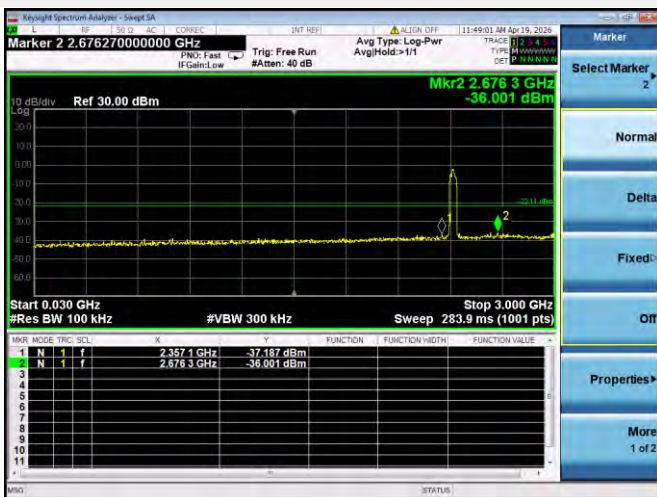
802.11n-20 MHz CH11, SPURIOUS 30 MHz ~ 3 GHz



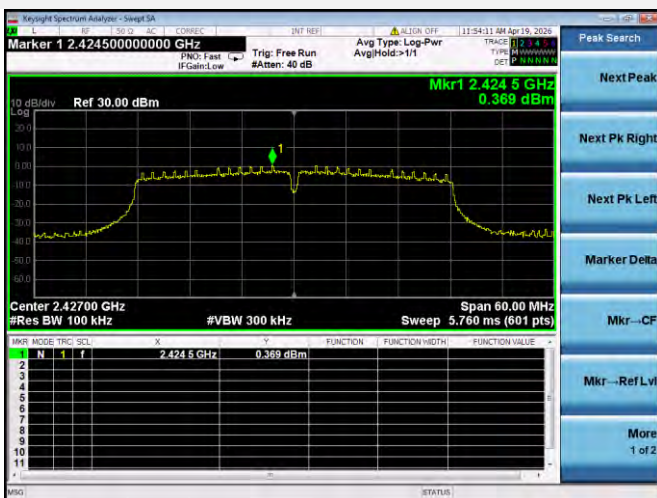
802.11n-20 MHz CH11, SPURIOUS 2 GHz ~ 25 GHz



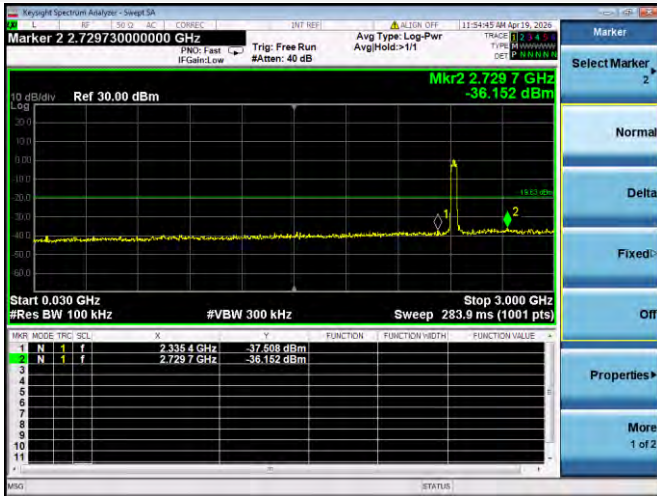
802.11n-40 MHz CH3 CARRIER LEVEL

802.11n-40 MHz CH3, SPURIOUS
30 MHz ~ 3 GHz802.11n-40 MHz CH3, SPURIOUS
2 GHz ~ 25 GHz

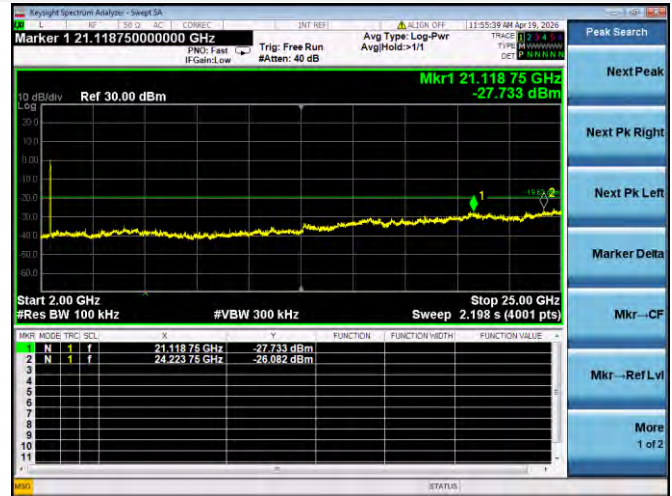
802.11n-40 MHz CH4 CARRIER LEVEL



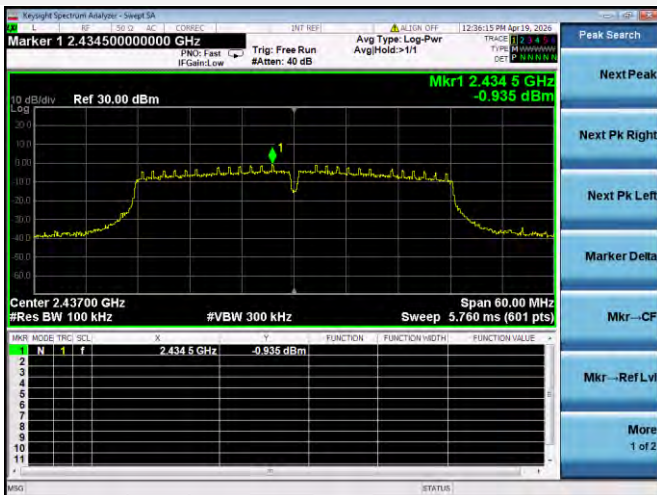
802.11n-40 MHz CH4, SPURIOUS 30 MHz ~ 3 GHz



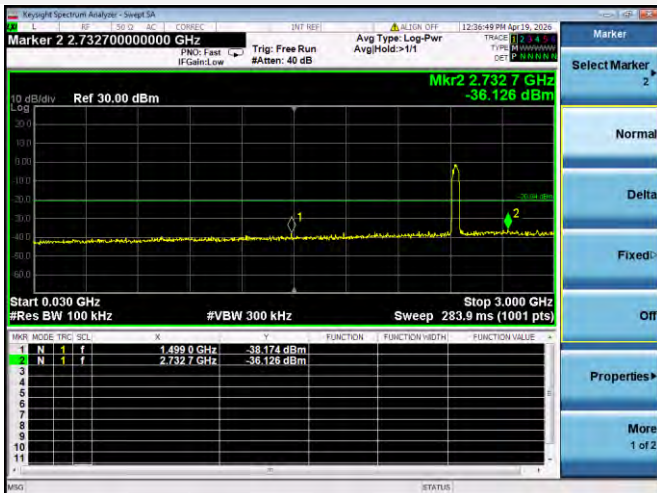
802.11n-40 MHz CH4, SPURIOUS 2 GHz ~ 25 GHz



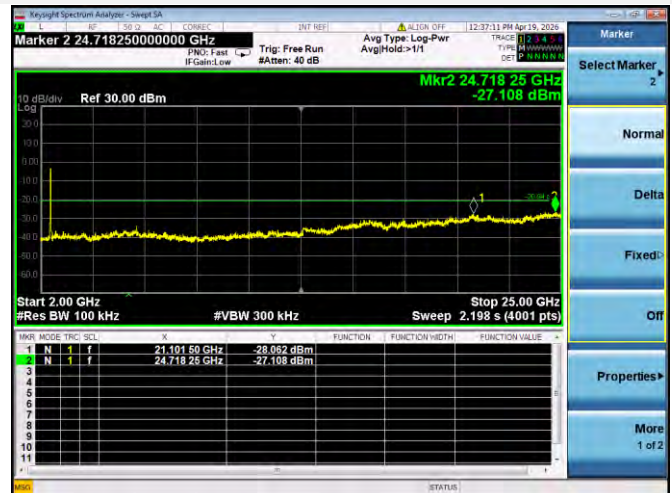
802.11n-40 MHz CH6 CARRIER LEVEL



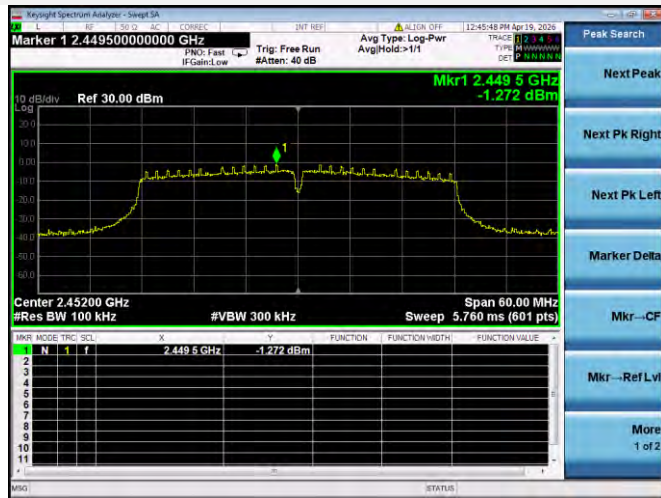
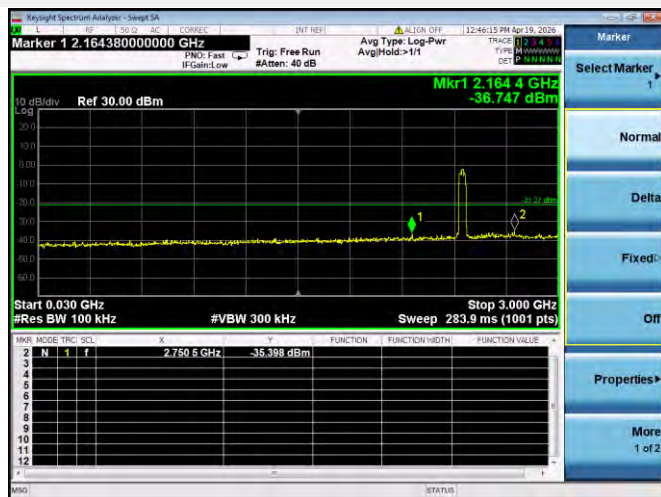
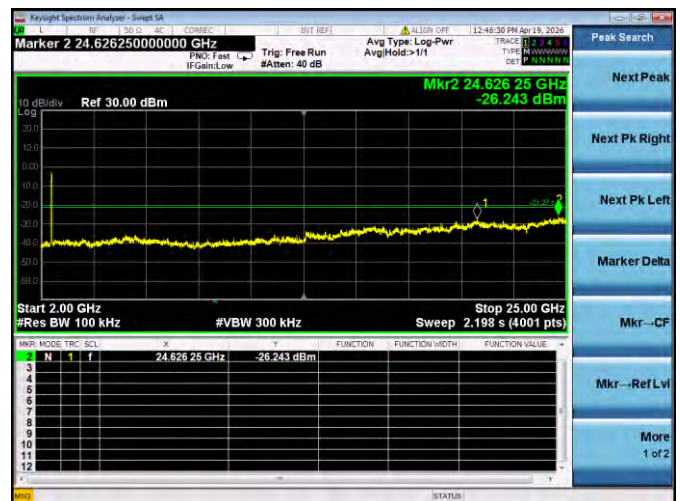
802.11n-40 MHz CH6, SPURIOUS 30 MHz ~ 3 GHz



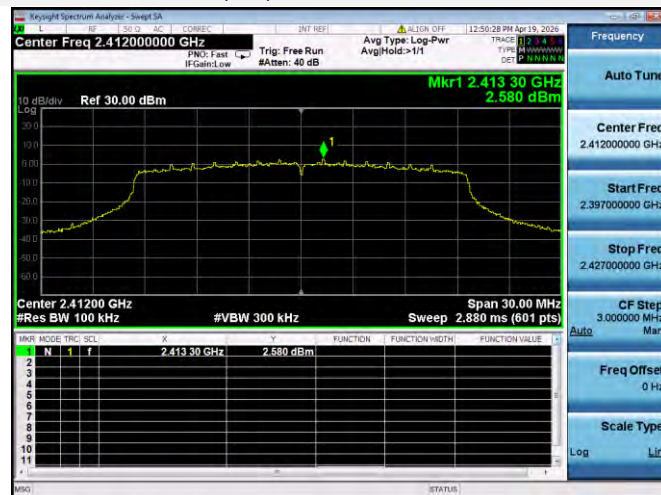
802.11n-40 MHz CH6, SPURIOUS 2 GHz ~ 25 GHz



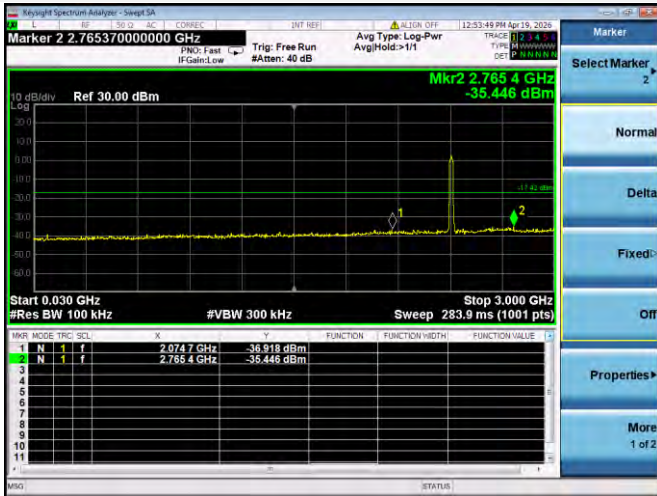
802.11n-40 MHz CH9 CARRIER LEVEL

802.11n-40 MHz CH9, SPURIOUS
30 MHz ~ 3 GHz802.11n-40 MHz CH9, SPURIOUS
2 GHz ~ 25 GHz

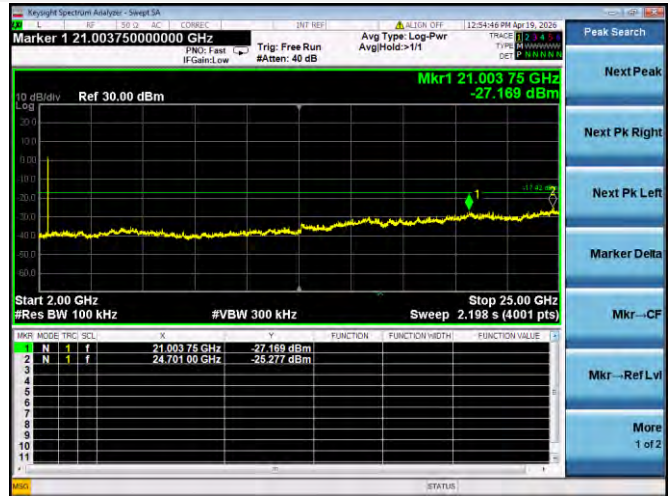
802.11ax-20 MHz(SU) CH1 CARRIER LEVEL



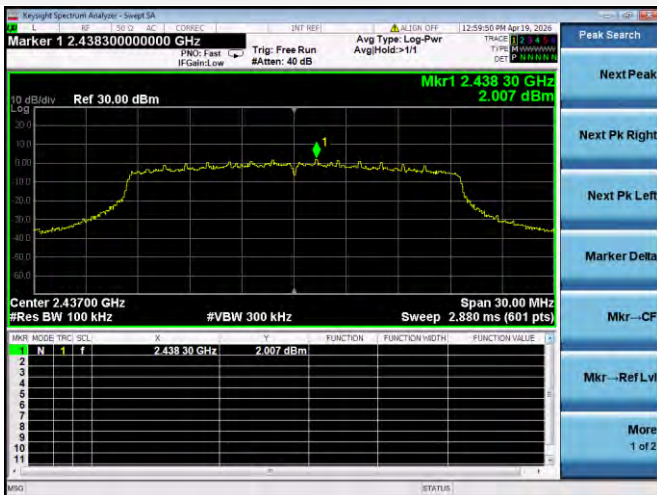
802.11ax-20 MHz(SU) CH1, SPURIOUS 30 MHz ~ 3 GHz



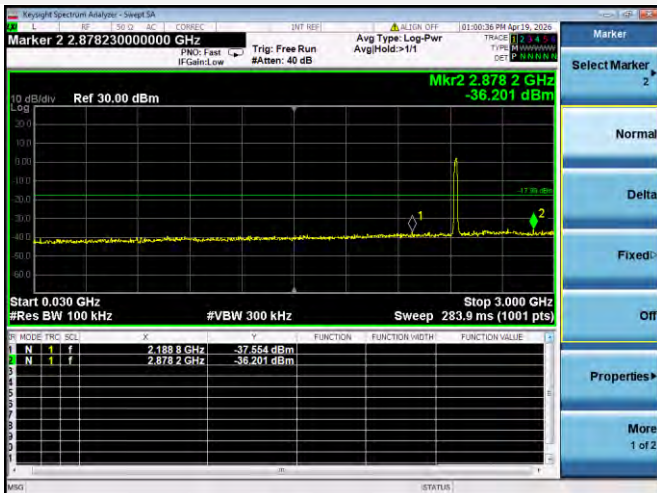
802.11ax-20 MHz(SU) CH1, SPURIOUS 2 GHz ~ 25 GHz



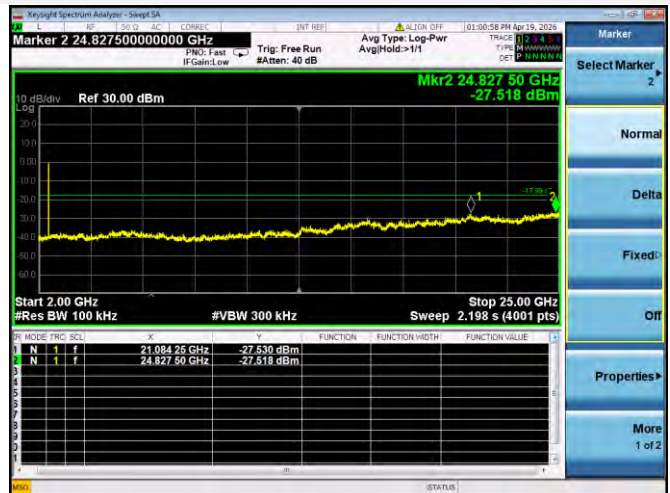
802.11ax-20 MHz(SU) CH6 CARRIER LEVEL



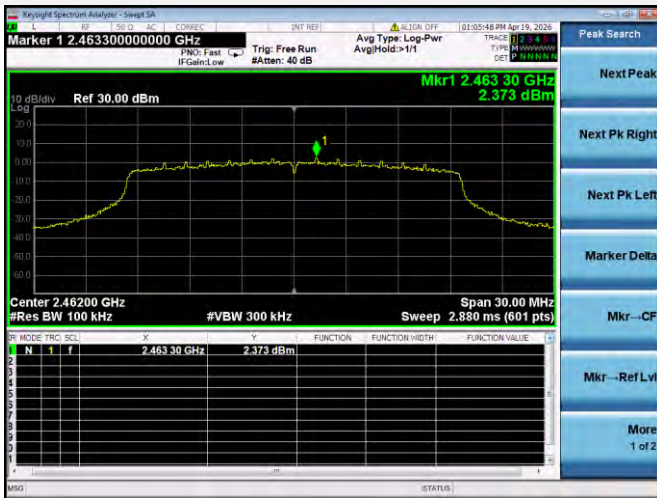
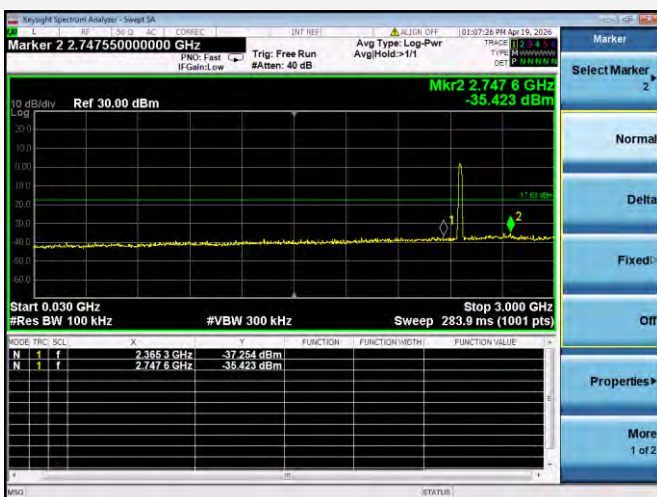
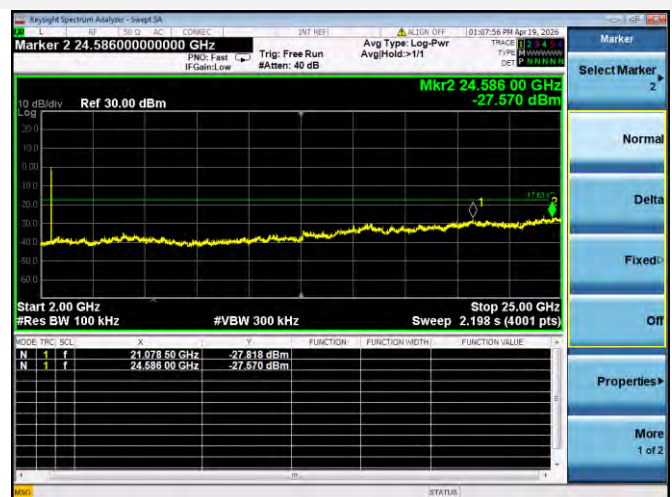
802.11ax-20 MHz(SU) CH6, SPURIOUS 30 MHz ~ 3 GHz



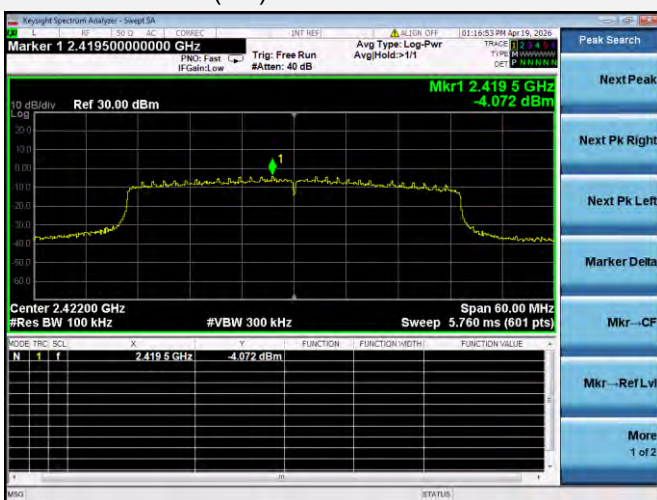
802.11ax-20 MHz(SU) CH6, SPURIOUS 2 GHz ~ 25 GHz



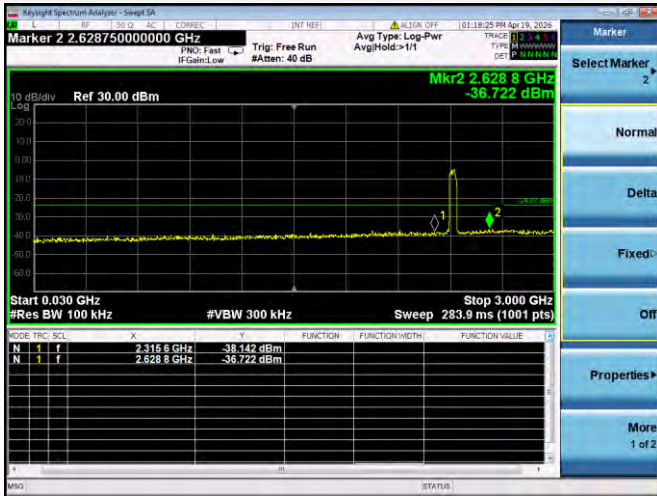
802.11ax-20 MHz(SU) CH11 CARRIER LEVEL

802.11ax-20 MHz(SU) CH11, SPURIOUS
30 MHz ~ 3 GHz802.11ax-20 MHz(SU) CH11, SPURIOUS
2 GHz ~ 25 GHz

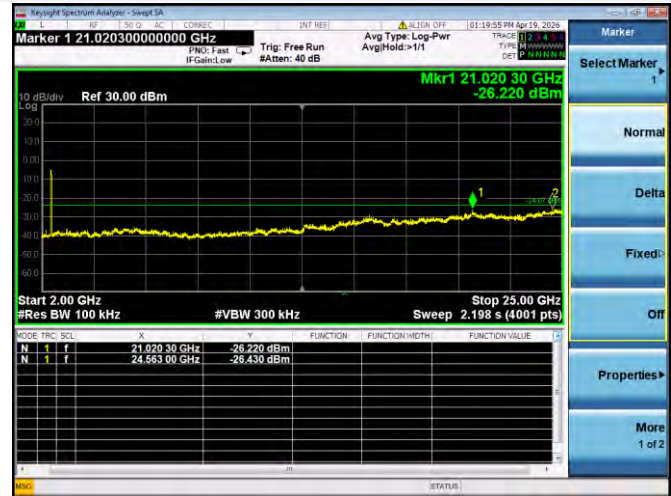
802.11ax-40 MHz(SU) CH3 CARRIER LEVEL



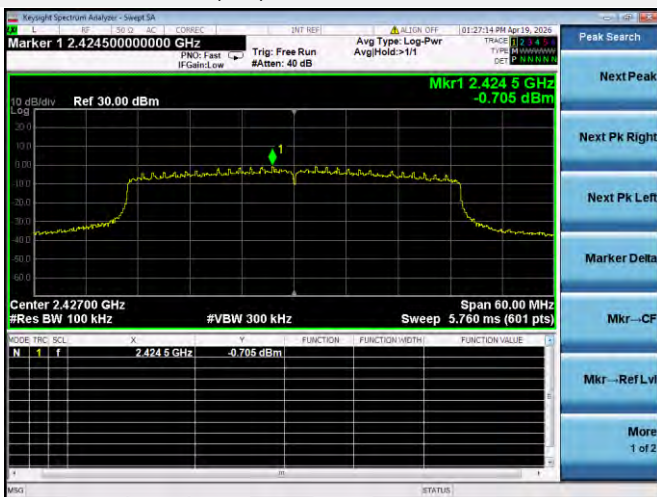
802.11ax-40 MHz(SU) CH3, SPURIOUS 30 MHz ~ 3 GHz



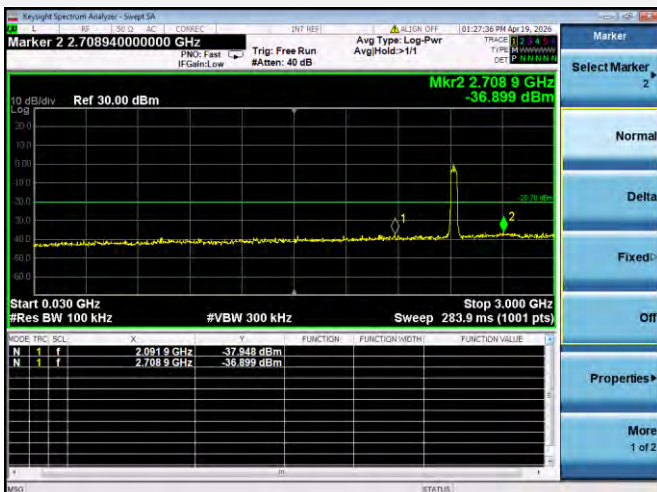
802.11ax-40 MHz(SU) CH3, SPURIOUS 2 GHz ~ 25 GHz



802.11ax-40 MHz(SU) CH4 CARRIER LEVEL



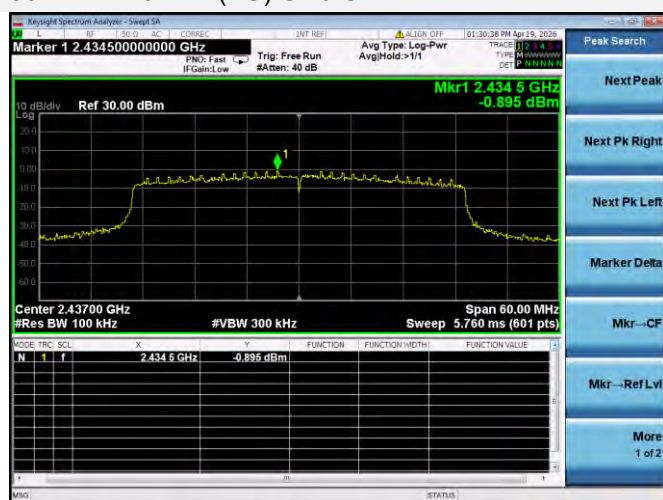
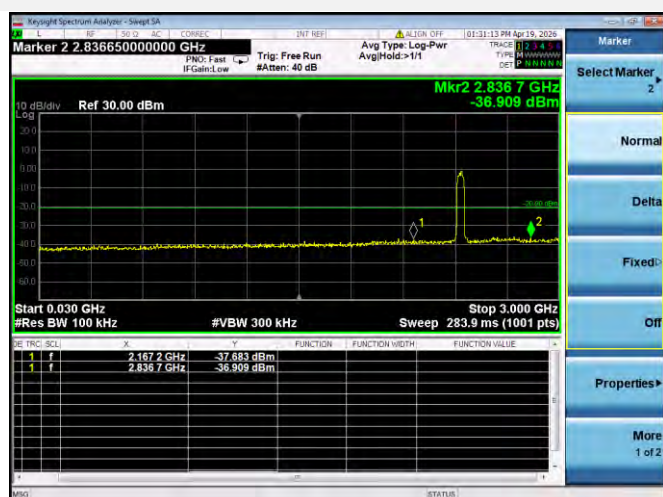
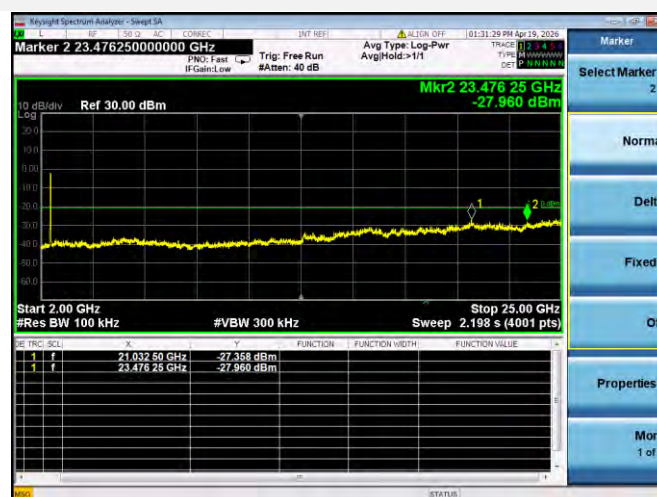
802.11ax-40 MHz(SU) CH4, SPURIOUS 30 MHz ~ 3 GHz



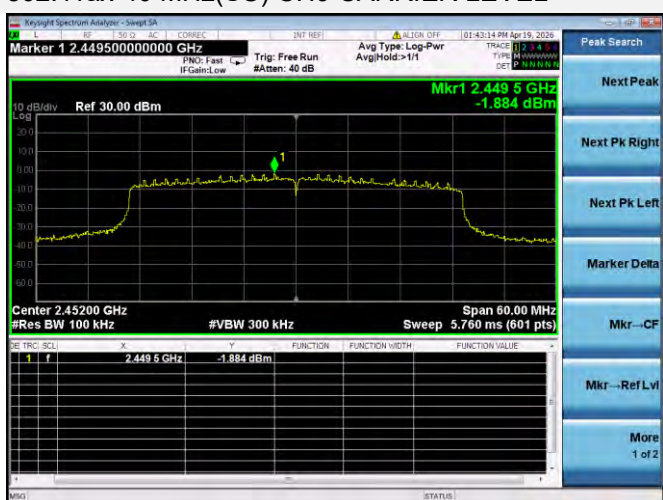
802.11ax-40 MHz(SU) CH4, SPURIOUS 2 GHz ~ 25 GHz



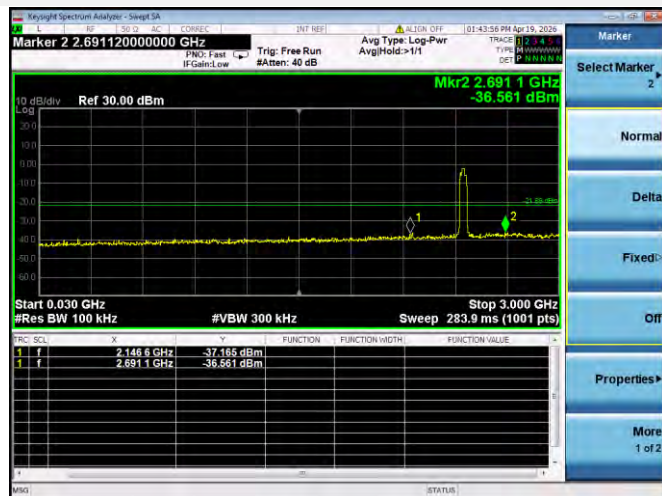
802.11ax-40 MHz(SU) CH6 CARRIER LEVEL

802.11ax-40 MHz(SU) CH6, SPURIOUS
30 MHz ~ 3 GHz802.11ax-40 MHz(SU) CH6, SPURIOUS
2 GHz ~ 25 GHz

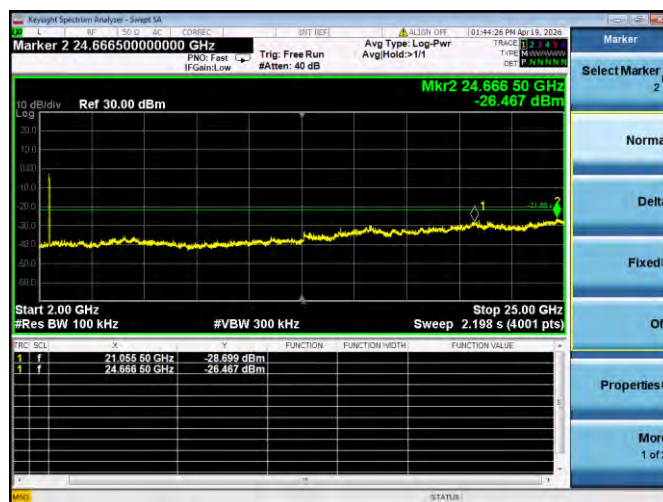
802.11ax-40 MHz(SU) CH9 CARRIER LEVEL



802.11ax-40 MHz(SU) CH9, SPURIOUS
30 MHz ~ 3 GHz



802.11ax-40 MHz(SU) CH9, SPURIOUS
2 GHz ~ 25 GHz



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

Note¹: The 99% OBW of the fundamental emission is without 2 MHz of the authorized band.

Note²: All the configurations were pre tested, only the worst configuration has been reported in this report.

Note³: All antenna were pre tested, but only the worst case has been reported in this report.

Test Data

SISO-ANT0

802.11b Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH1	-41.80	4.84	-15.16	Pass
CH11	-47.07	6.62	-13.39	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH1	-28.13	5.33	-14.67	Pass
CH11	-43.09	3.49	-16.51	Pass

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH1	-29.81	3.46	-16.54	Pass
CH11	-38.84	4.61	-15.39	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH3	-36.86	-2.23	-22.23	Pass
CH4	-36.25	0.14	-19.86	Pass
CH9	-38.15	-1.12	-21.12	Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH1	-29.15	2.35	-17.65	Pass
CH11	-40.59	2.43	-17.57	Pass

802.11ax-40 MHz(SU) Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH3	-35.89	-4.39	-24.39	Pass
CH4	-37.73	-0.78	-20.78	Pass
CH9	-39.37	0.74	-19.26	Pass

SISO-ANT1

802.11b Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH1	-39.75	7.48	-12.52	Pass
CH11	-47.02	6.44	-13.56	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH1	-25.42	6.22	-13.78	Pass
CH11	-41.67	3.25	-16.75	Pass

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH1	-30.13	3.51	-16.49	Pass
CH11	-39.72	4.27	-15.74	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
CH3	-35.75	-2.11	-22.11	Pass
CH4	-36.46	-0.94	-20.94	Pass
CH9	-42.76	-1.27	-21.27	Pass