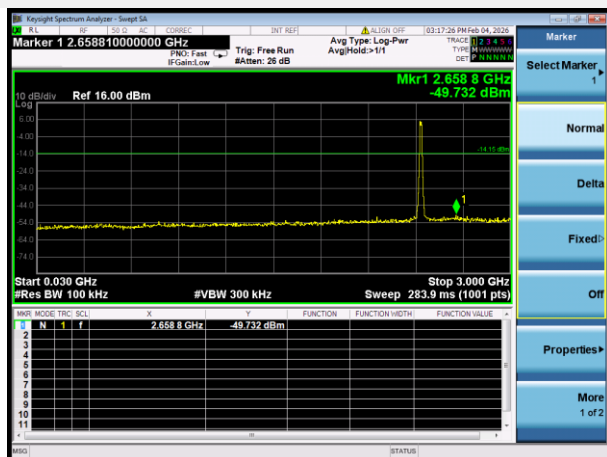
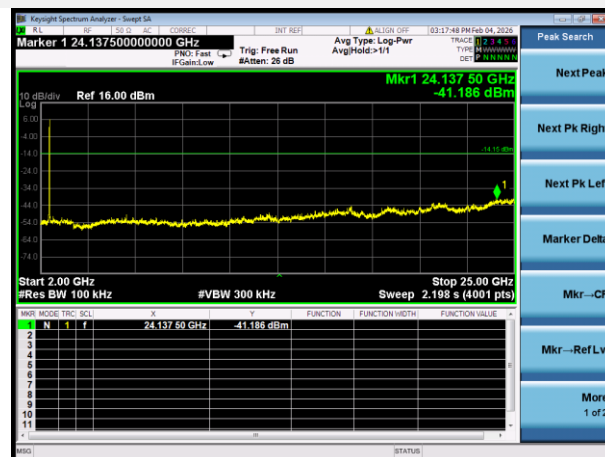


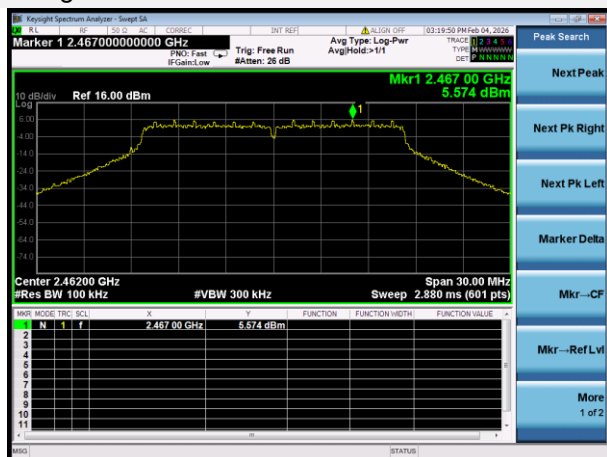
802.11g MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



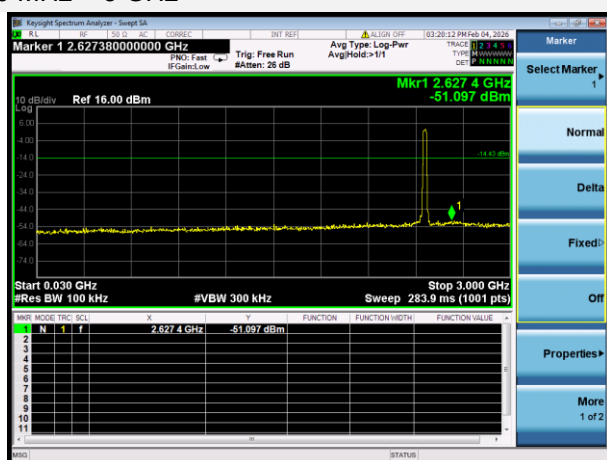
802.11g MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



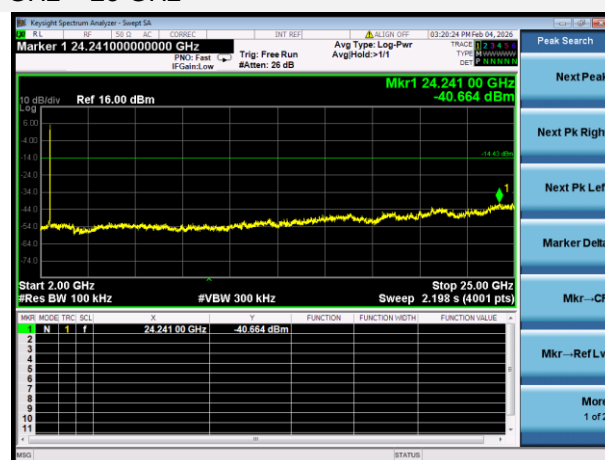
802.11g HIGH CHANNEL CARRIER LEVEL



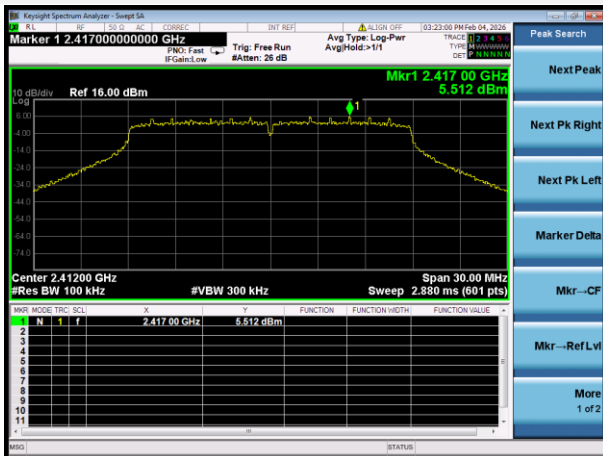
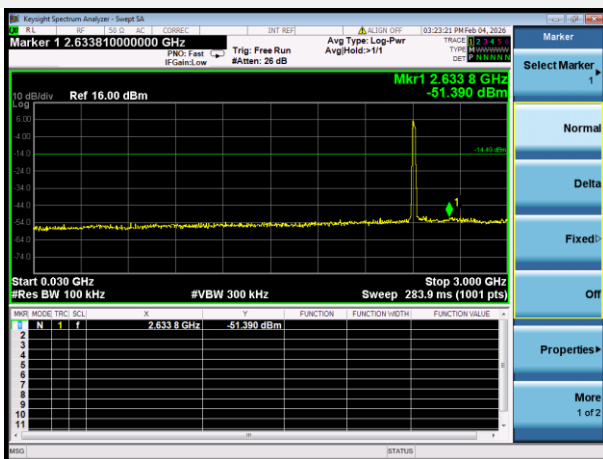
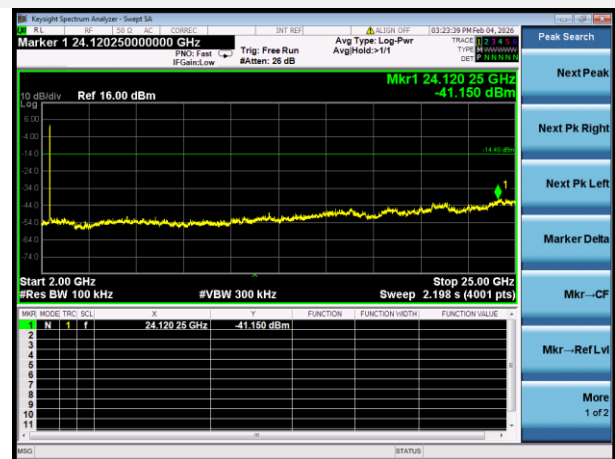
802.11g HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



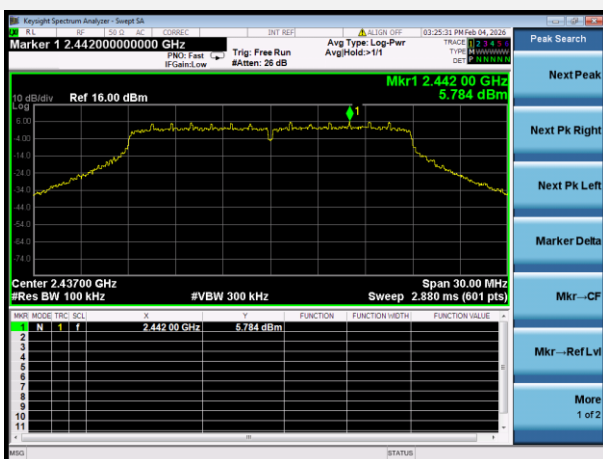
802.11g HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



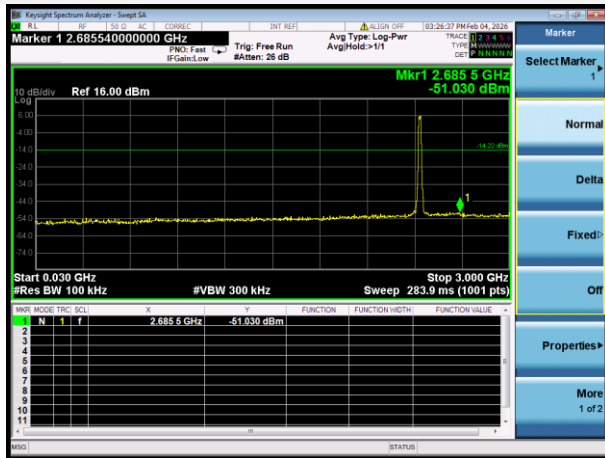
802.11n-20 MHz LOW CHANNEL CARRIER LEVEL

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

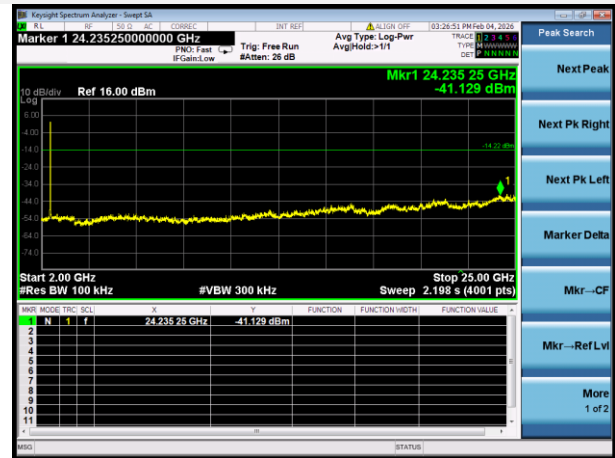
802.11n-20 MHz MIDDLE CHANNEL CARRIER LEVEL



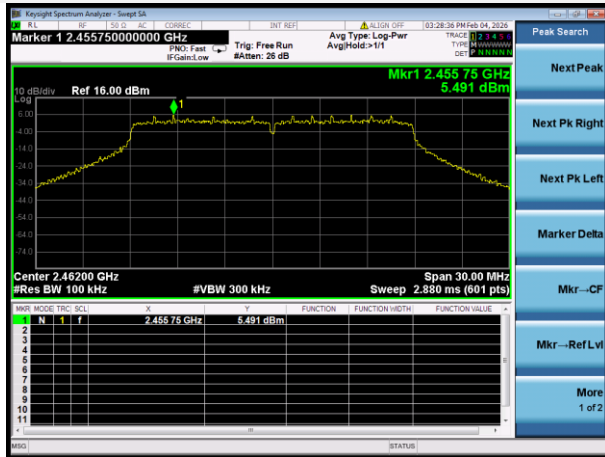
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



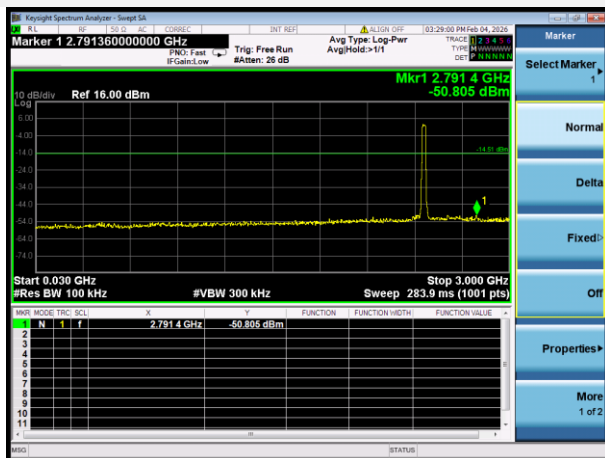
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



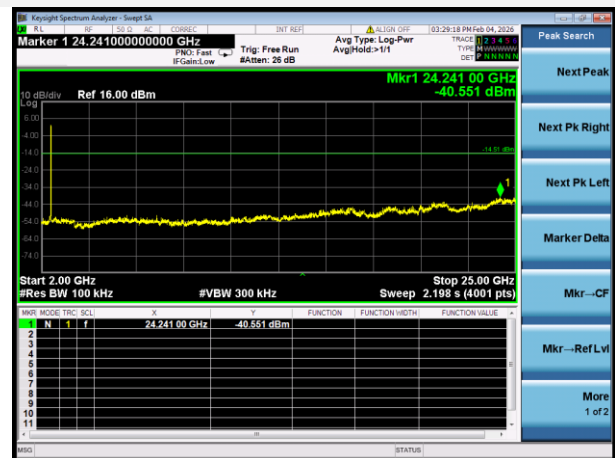
802.11n-20 MHz HIGH CHANNEL CARRIER LEVEL



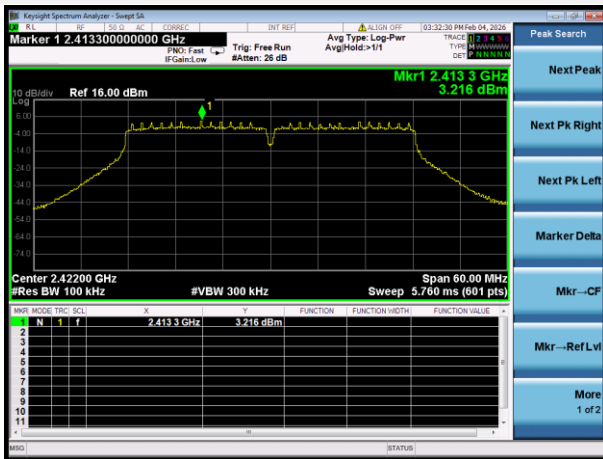
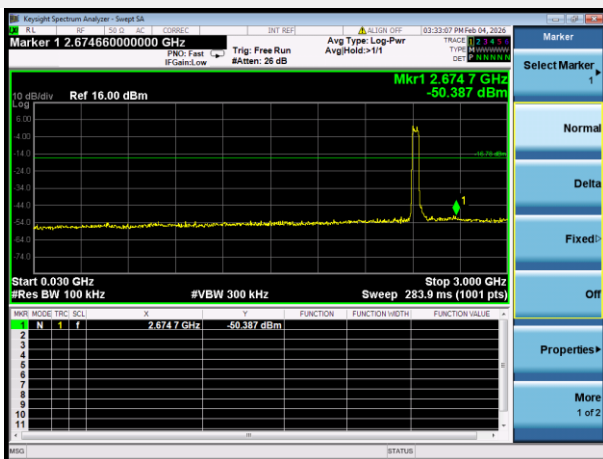
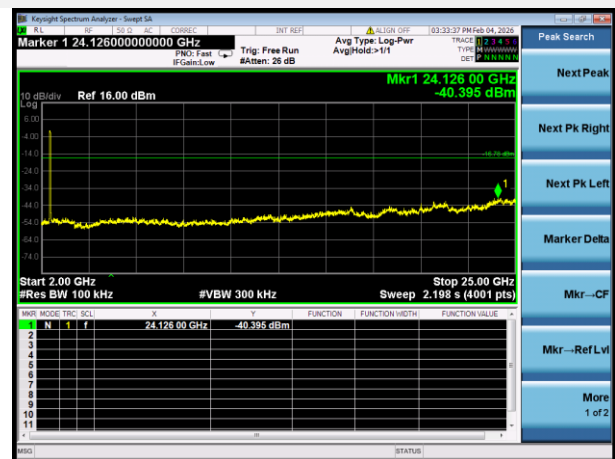
802.11n-20 MHz HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



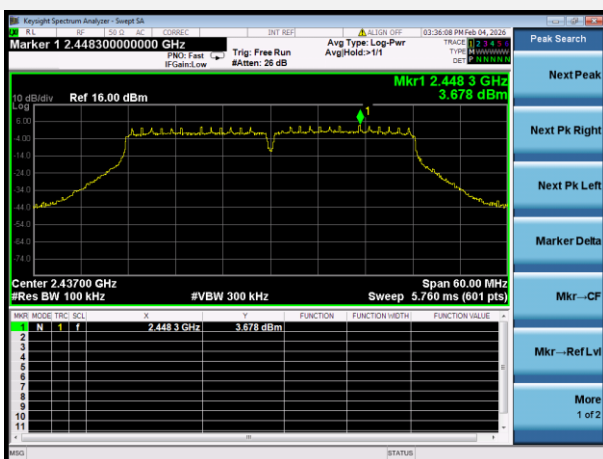
802.11n-20 MHz HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



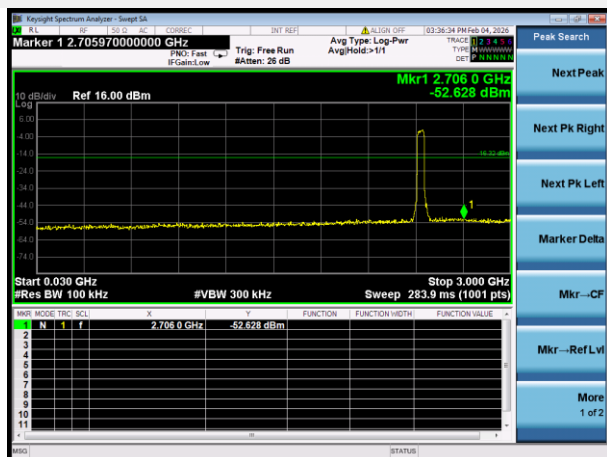
802.11n-40 MHz LOW CHANNEL CARRIER LEVEL

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

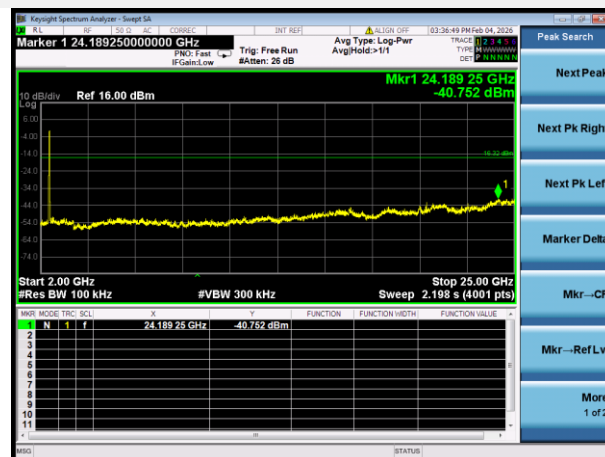
802.11n-40 MHz MIDDLE CHANNEL CARRIER LEVEL



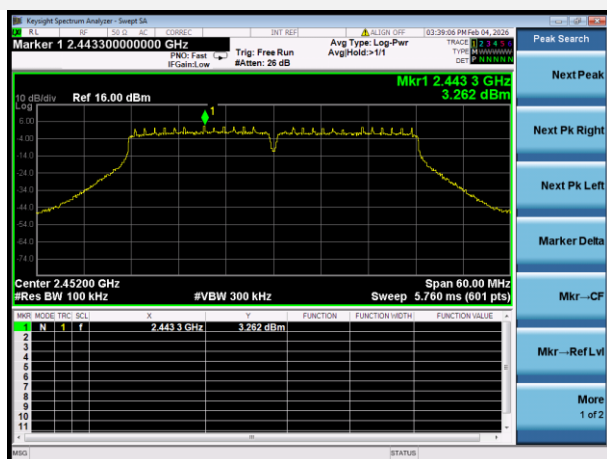
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



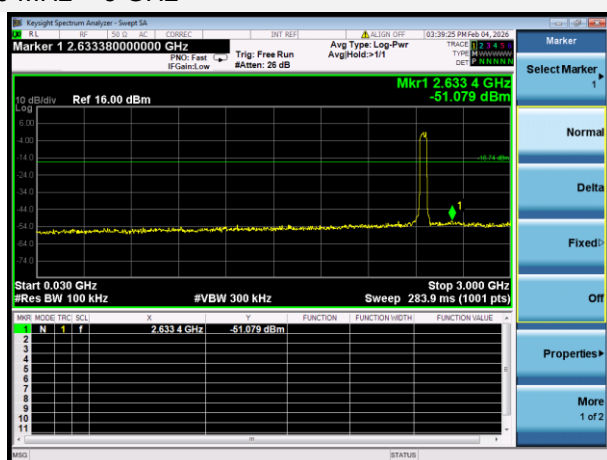
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



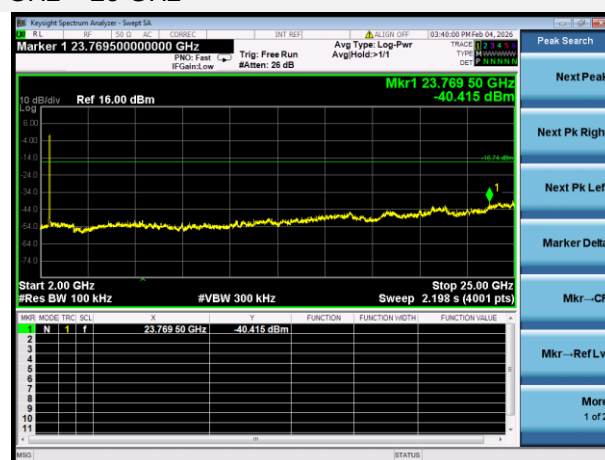
802.11n-40 MHz HIGH CHANNEL CARRIER LEVEL



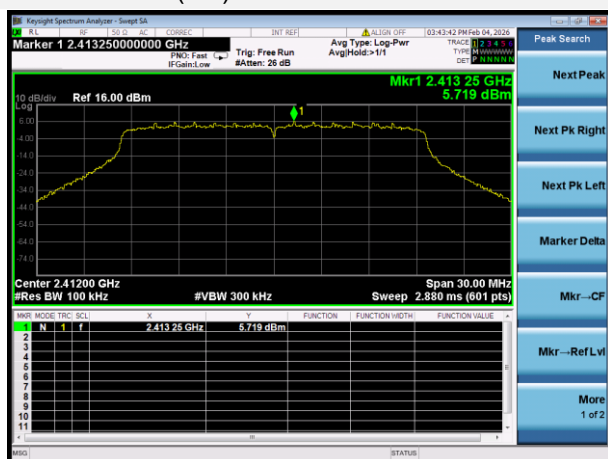
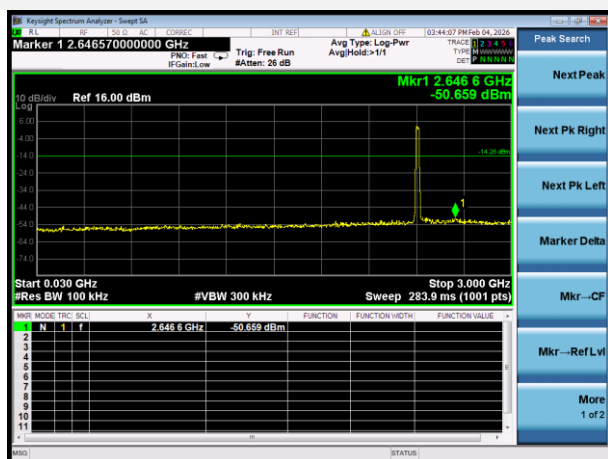
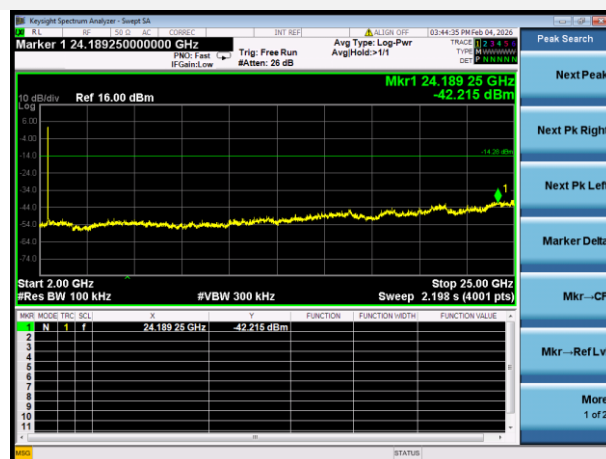
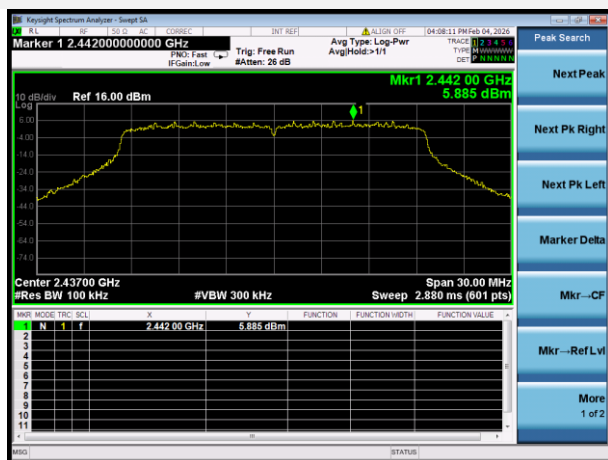
802.11n-40 MHz HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



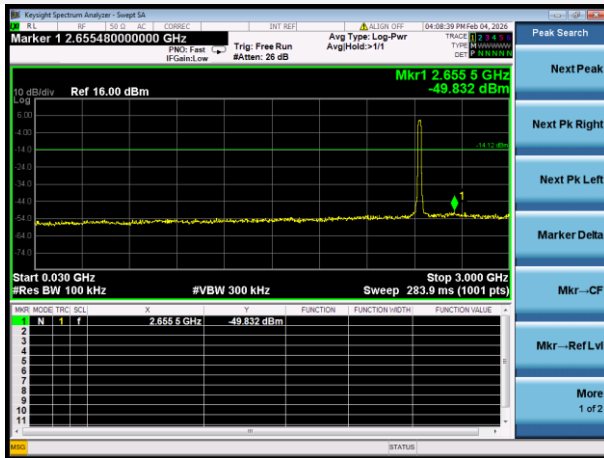
802.11n-40 MHz HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



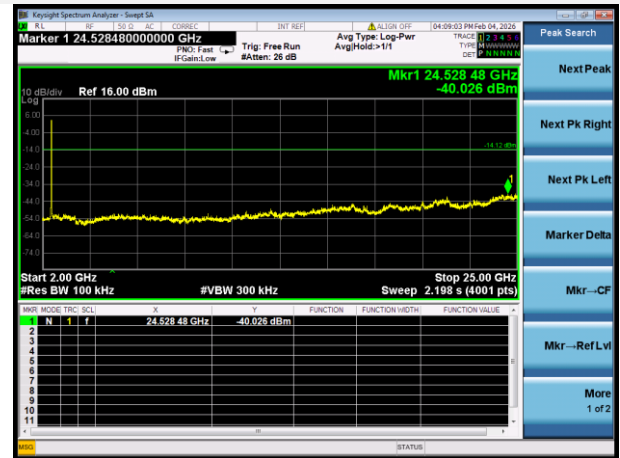
802.11ax-20 MHz(SU) LOW CHANNEL CARRIER LEVEL

802.11ax-20 MHz(SU) LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHz802.11ax-20 MHz(SU) LOW CHANNEL, SPURIOUS
2 GHz ~ 25 GHz802.11ax-20 MHz(SU) MIDDLE CHANNEL CARRIER
LEVEL

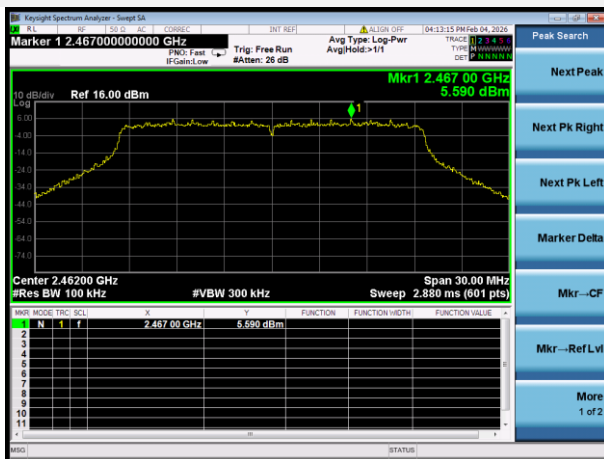
802.11ax-20 MHz(SU) MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



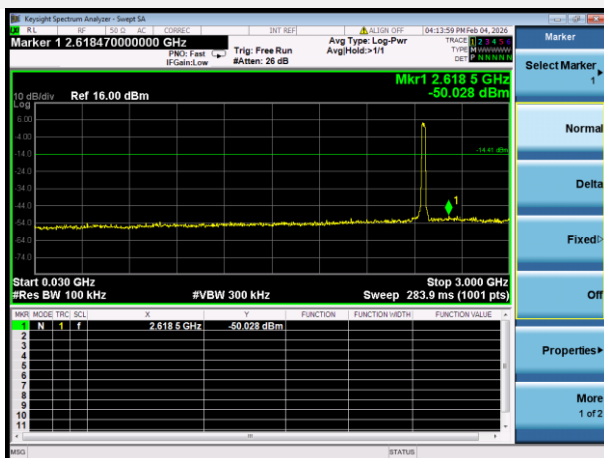
802.11ax-20 MHz(SU) MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



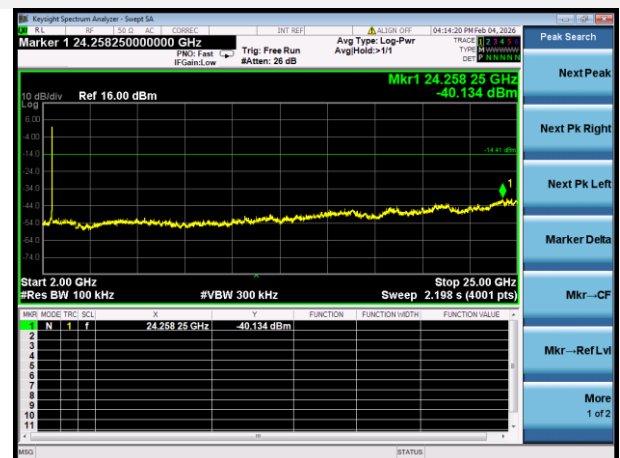
802.11ax-20 MHz(SU) HIGH CHANNEL CARRIER LEVEL



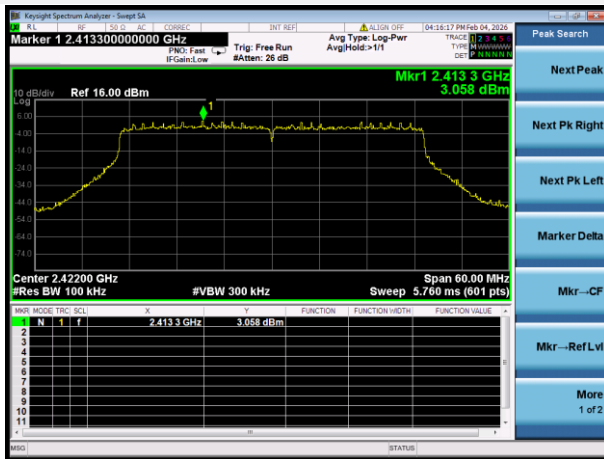
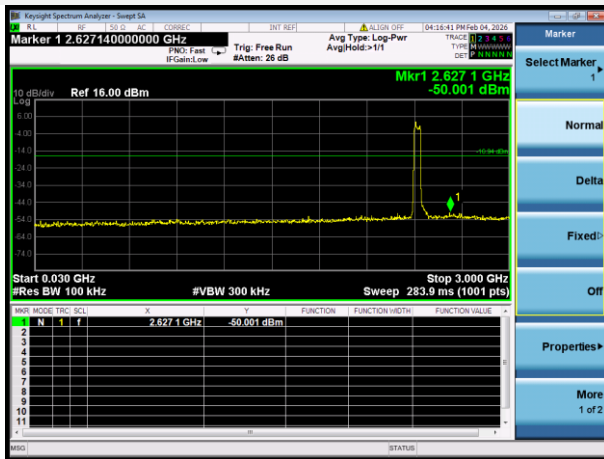
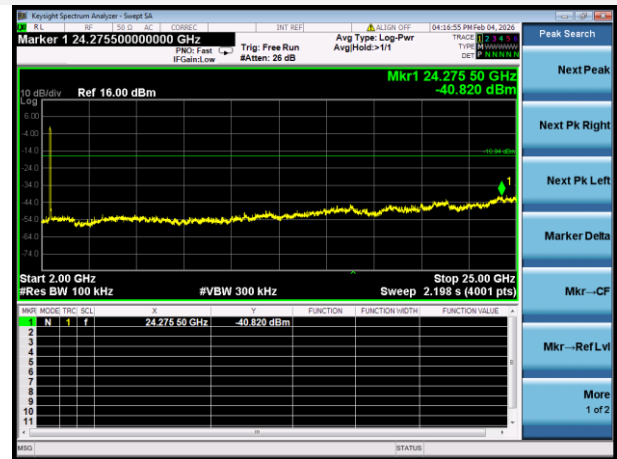
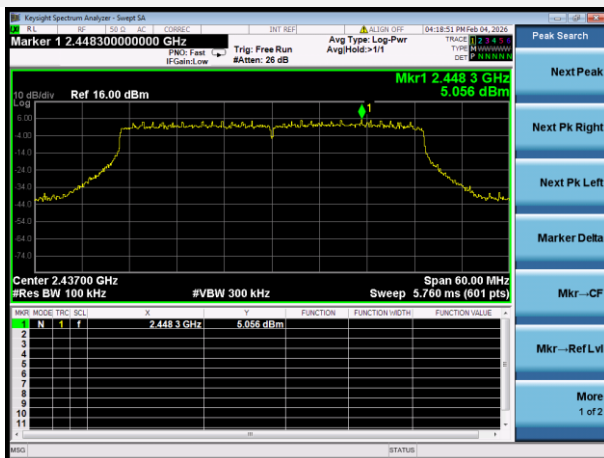
802.11ax-20 MHz(SU) HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



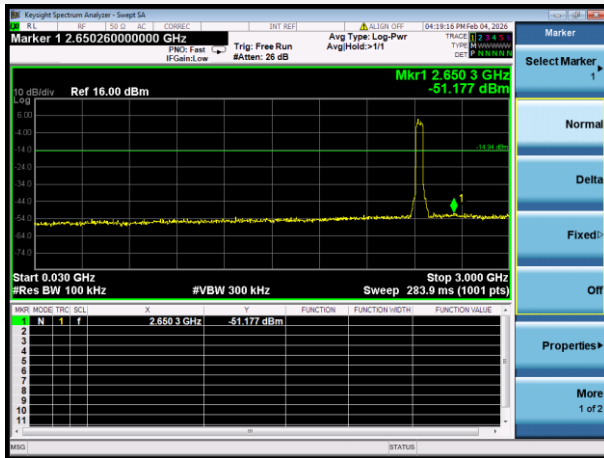
802.11ax-20 MHz(SU) HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



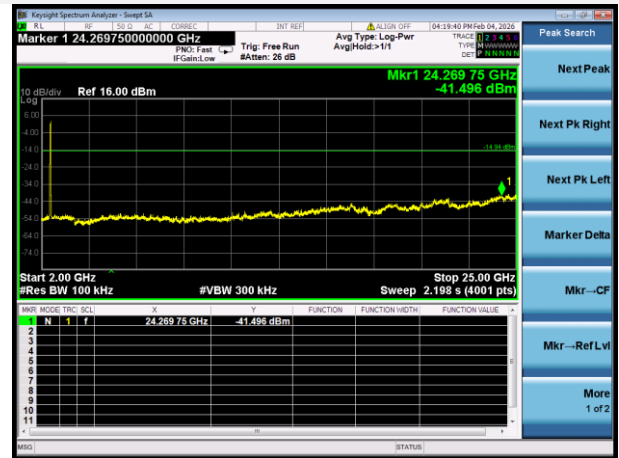
802.11ax-40 MHz(SU) LOW CHANNEL CARRIER LEVEL

802.11ax-40 MHz(SU) LOW CHANNEL, SPURIOUS
30 MHz ~ 3 GHz802.11ax-40 MHz(SU) LOW CHANNEL, SPURIOUS
2 GHz ~ 25 GHz802.11ax-40 MHz(SU) MIDDLE CHANNEL CARRIER
LEVEL

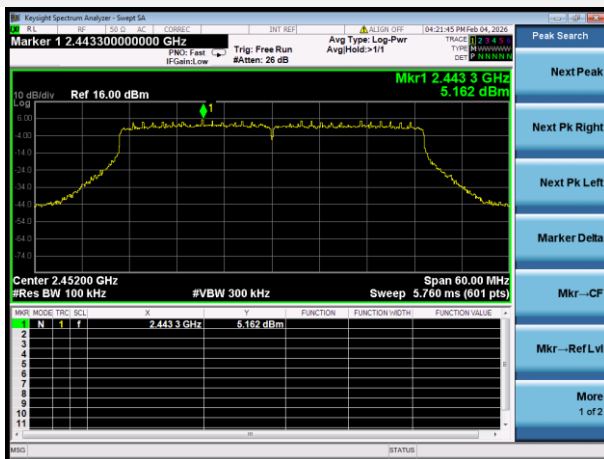
802.11ax-40 MHz(SU) MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



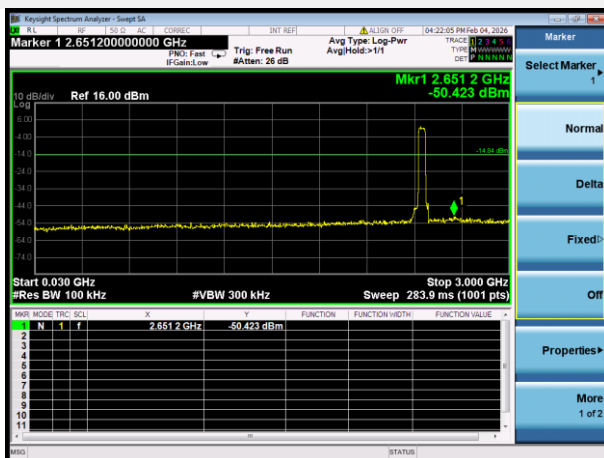
802.11ax-40 MHz(SU) MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



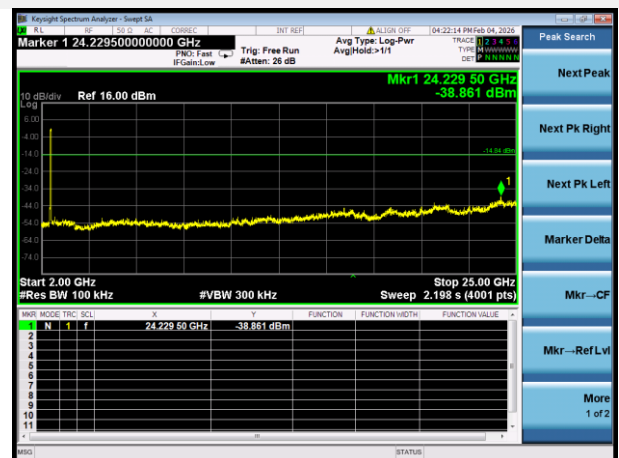
802.11ax-40 MHz(SU) HIGH CHANNEL CARRIER LEVEL



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



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



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

Note ¹: The 99% OBW of the fundamental emission is without 2 MHz of the authorized band.

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. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-40.73	9.35	-10.65	Pass
High Channel	-45.81	8.96	-11.04	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-22.86	5.75	-14.25	Pass
High Channel	-45.62	5.57	-14.43	Pass

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-24.10	5.51	-14.49	Pass
High Channel	-43.23	5.49	-14.51	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-27.69	3.22	-16.78	Pass
High Channel	-43.70	3.26	-16.74	Pass

802.11ax-20 MHz(SU) Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-26.54	5.72	-14.28	Pass
High Channel	-44.59	5.59	-14.41	Pass

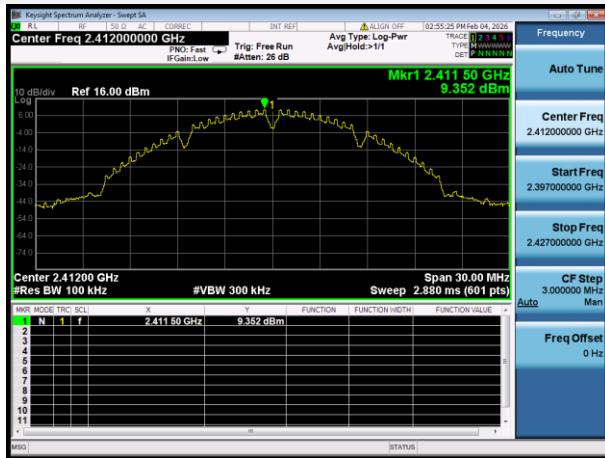
802.11ax-40 MHz(SU) Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low Channel	-28.68	3.06	-16.94	Pass
High Channel	-41.08	5.16	-14.84	Pass

Test Plots

SISO-ANT0

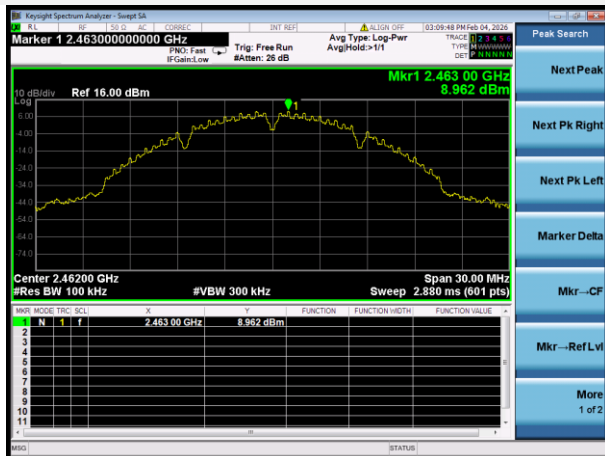
802.11b LOW CHANNEL, CARRIER LEVEL



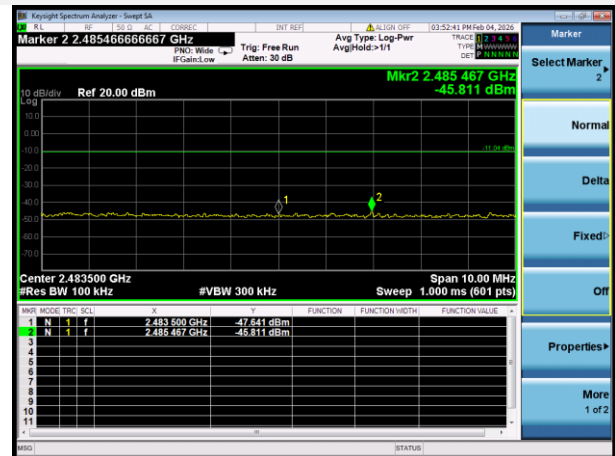
802.11b LOW CHANNEL, BAND EDGE



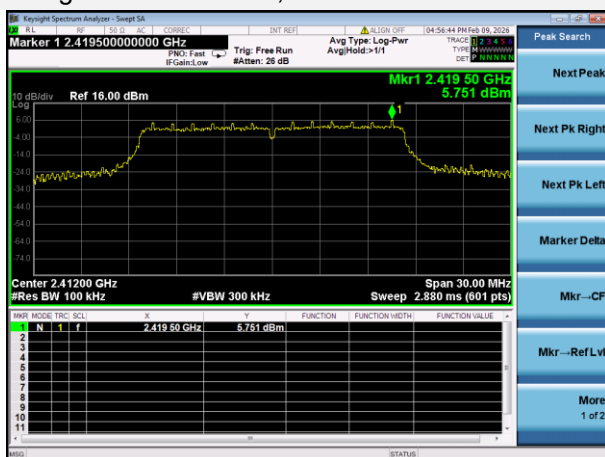
802.11b HIGH CHANNEL, CARRIER LEVEL



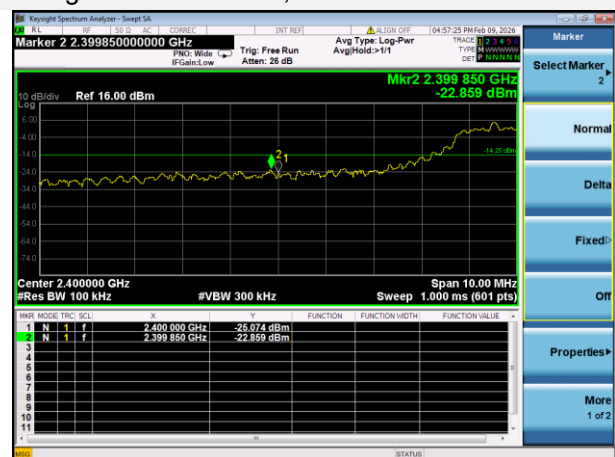
802.11b HIGH CHANNEL, BAND EDGE



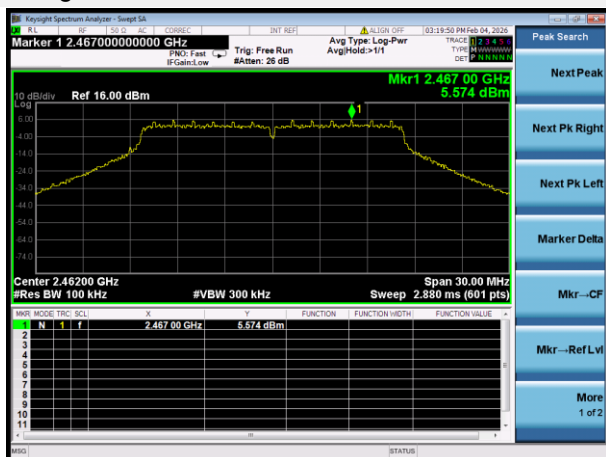
802.11g LOW CHANNEL, CARRIER LEVEL



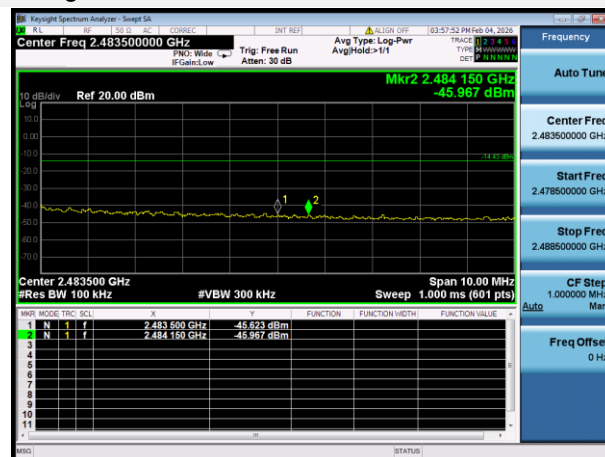
802.11g LOW CHANNEL, BAND EDGE



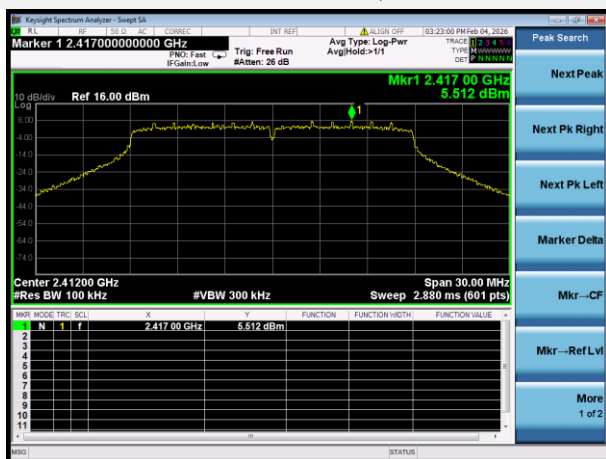
802.11g HIGH CHANNEL, CARRIER LEVEL



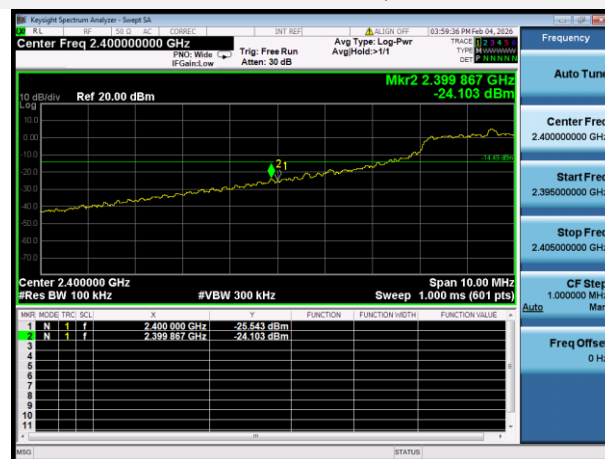
802.11g HIGH CHANNEL, BAND EDGE



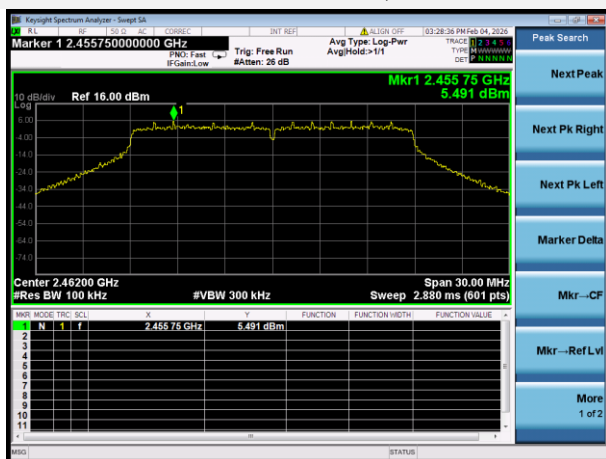
802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



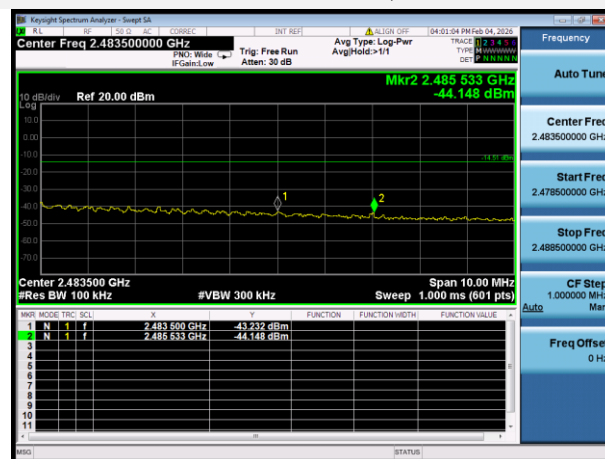
802.11n-20 MHz LOW CHANNEL, BAND EDGE



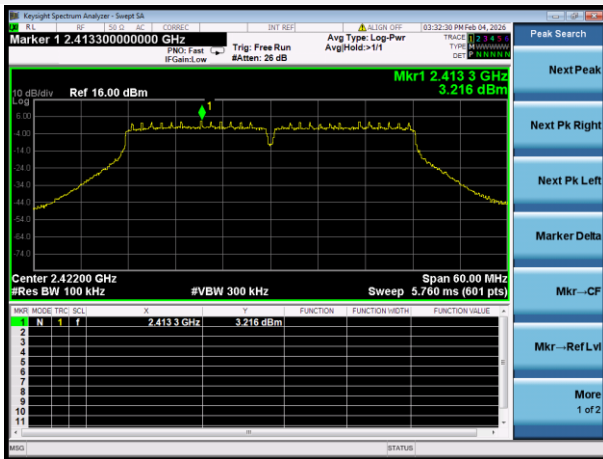
802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-20 MHz HIGH CHANNEL, BAND EDGE



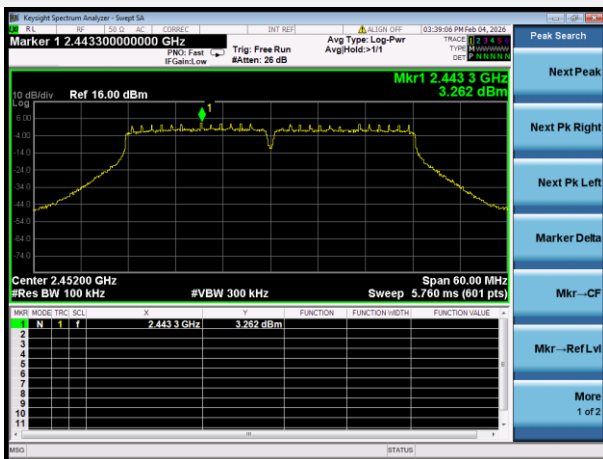
802.11n-40 MHz LOW CHANNEL, CARRIER LEVEL



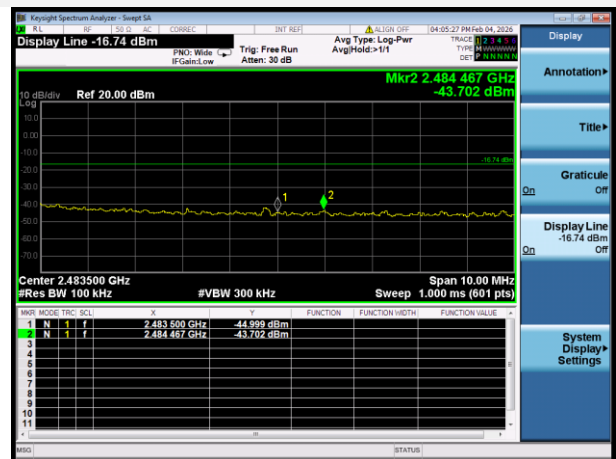
802.11n-40 MHz LOW CHANNEL, BAND EDGE



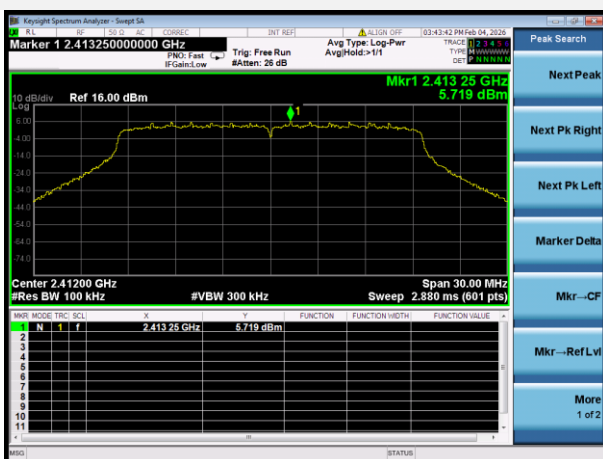
802.11n-40 MHz HIGH CHANNEL, CARRIER LEVEL



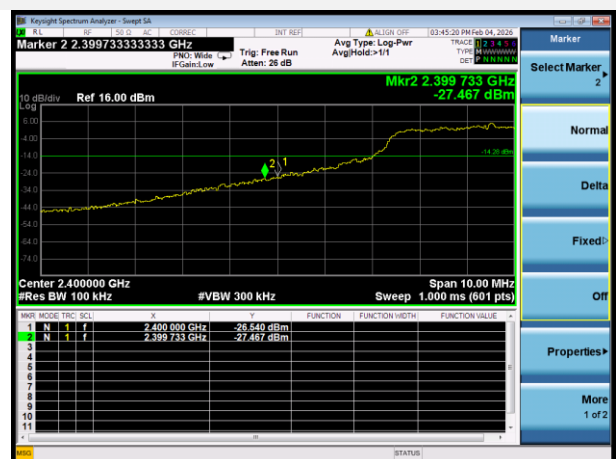
802.11n-40 MHz HIGH CHANNEL, BAND EDGE



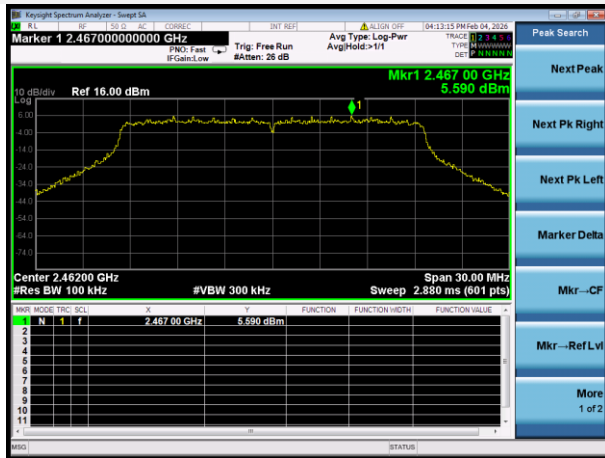
802.11ax-20 MHz(SU) LOW CHANNEL, CARRIER LEVEL



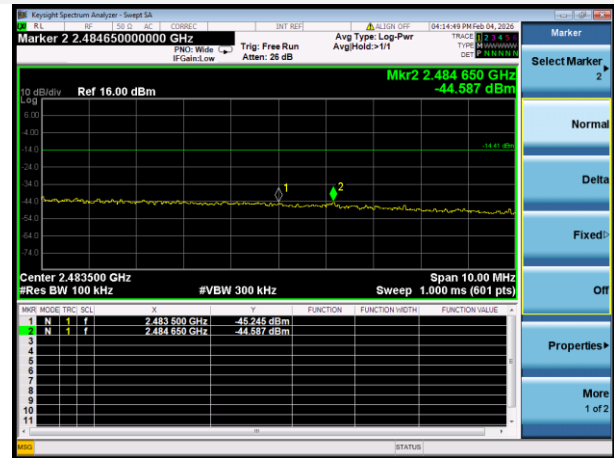
802.11ax-20 MHz(SU) LOW CHANNEL, BAND EDGE



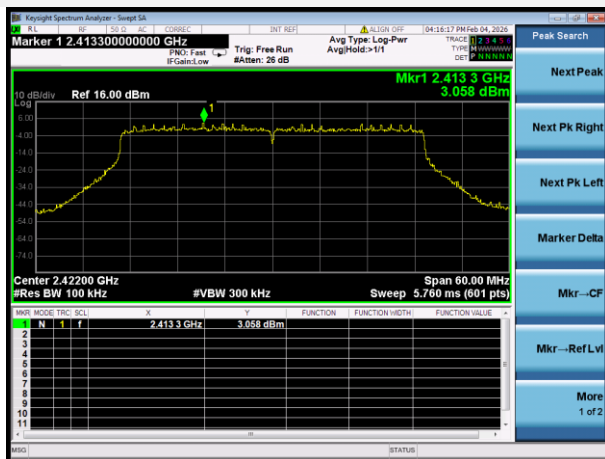
802.11ax-20 MHz(SU) HIGH CHANNEL, CARRIER LEVEL



802.11ax-20 MHz(SU) HIGH CHANNEL, BAND EDGE



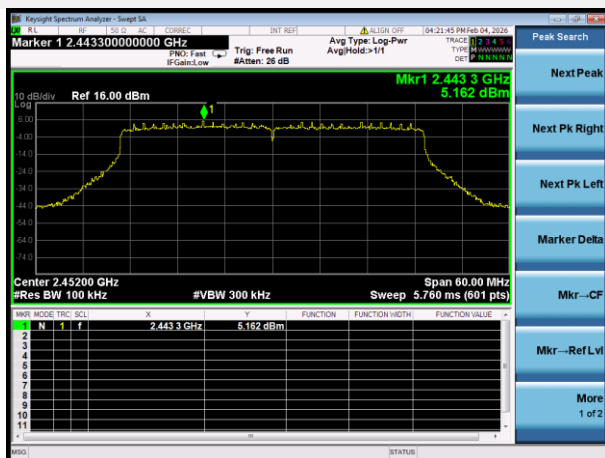
802.11ax-40 MHz(SU) LOW CHANNEL, CARRIER LEVEL



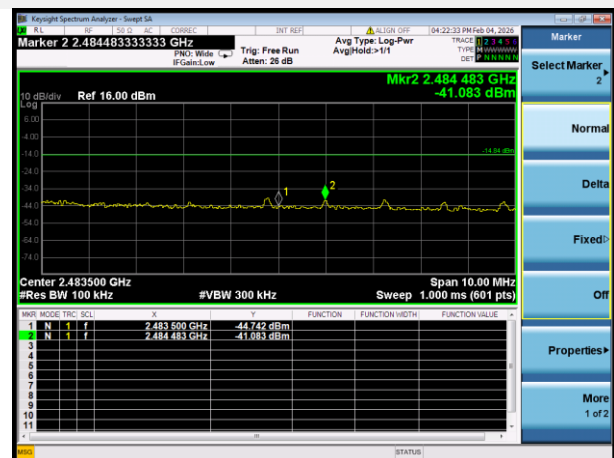
802.11ax-40 MHz(SU) LOW CHANNEL, BAND EDGE



802.11ax-40 MHz(SU) HIGH CHANNEL, CARRIER LEVEL



802.11ax-40 MHz(SU) HIGH CHANNEL, BAND EDGE



A.5 Conducted Emissions

Note¹: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

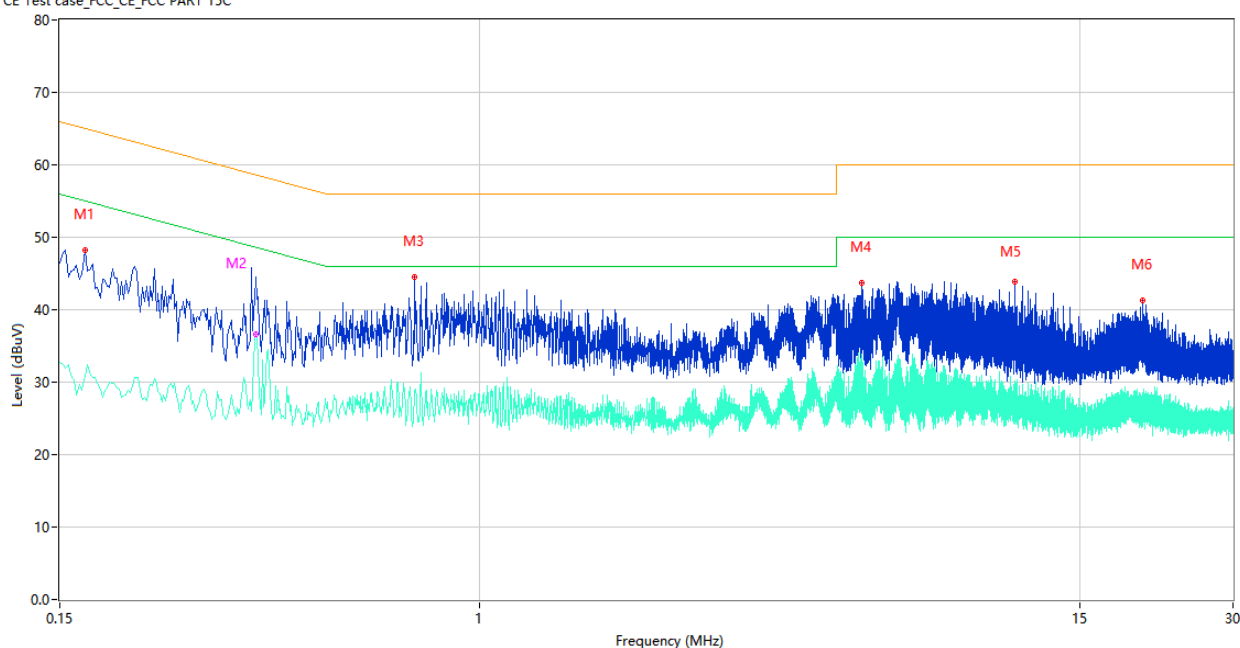
Note²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

Note³: Results (dBuV) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

Test Data and Plots

PHASE L

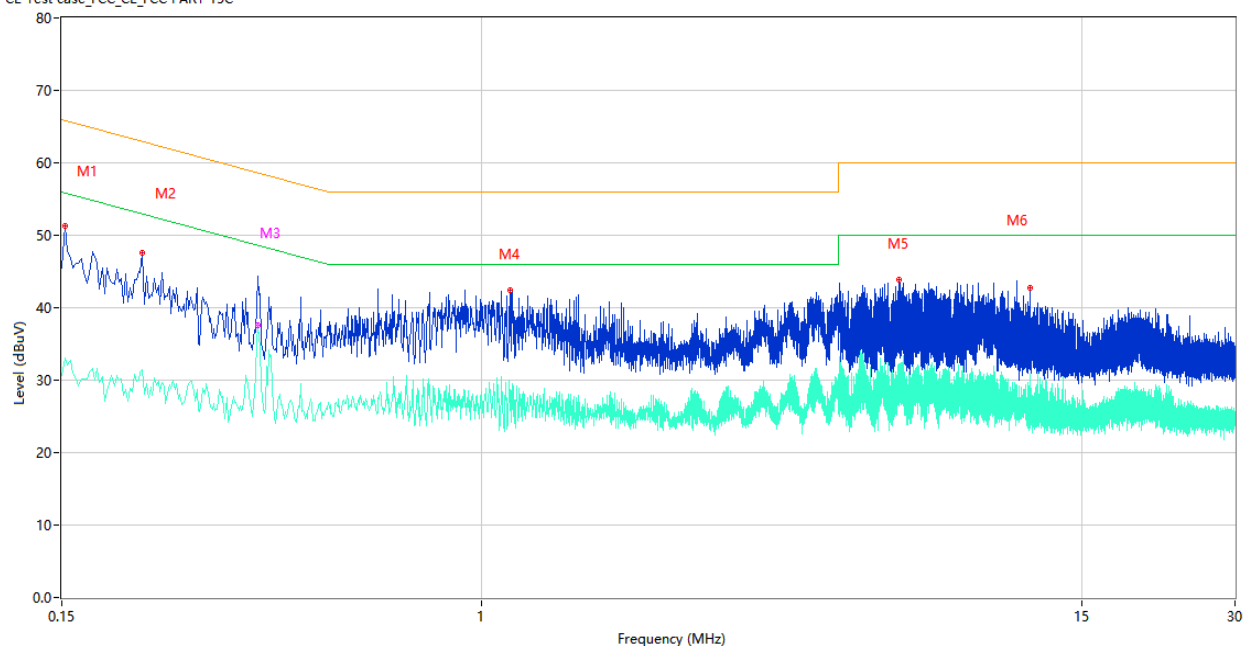
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.168	48.19	9.85	65.06	16.87	Peak	L	Pass
1**	0.168	30.79	9.85	55.06	24.27	AV	L	Pass
2	0.364	44.48	10.76	58.64	14.16	Peak	L	Pass
2**	0.364	36.64	10.76	48.64	12.00	AV	L	Pass
3	0.746	44.45	10.26	56.00	11.55	Peak	L	Pass
3**	0.746	28.77	10.26	46.00	17.23	AV	L	Pass
4	5.602	43.67	10.47	60.00	16.33	Peak	L	Pass
4**	5.602	27.54	10.47	50.00	22.46	AV	L	Pass
5	11.214	43.85	10.77	60.00	16.15	Peak	L	Pass
5**	11.214	26.82	10.77	50.00	23.18	AV	L	Pass
6	19.938	41.29	11.21	60.00	18.71	Peak	L	Pass
6**	19.938	28.47	11.21	50.00	21.53	AV	L	Pass

PHASE N

CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.152	51.31	9.86	65.89	14.58	Peak	N	Pass
1**	0.152	33.07	9.86	55.89	22.82	AV	N	Pass
2	0.216	47.56	9.83	62.97	15.41	Peak	N	Pass
2**	0.216	31.51	9.83	52.97	21.46	AV	N	Pass
3	0.364	44.42	10.76	58.64	14.22	Peak	N	Pass
3**	0.364	37.58	10.76	48.64	11.06	AV	N	Pass
4	1.138	42.36	10.37	56.00	13.64	Peak	N	Pass
4**	1.138	27.20	10.37	46.00	18.80	AV	N	Pass
5	6.570	43.85	10.38	60.00	16.15	Peak	N	Pass
5**	6.570	32.29	10.38	50.00	17.71	AV	N	Pass
6	11.880	42.77	10.85	60.00	17.23	Peak	N	Pass
6**	11.880	30.82	10.85	50.00	19.18	AV	N	Pass

A.6 Radiated Emission

Note¹: The symbol of “--” in the table which means not application.

Note²: For the test data above 1 GHz, According the ANSI C63.10-2020, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

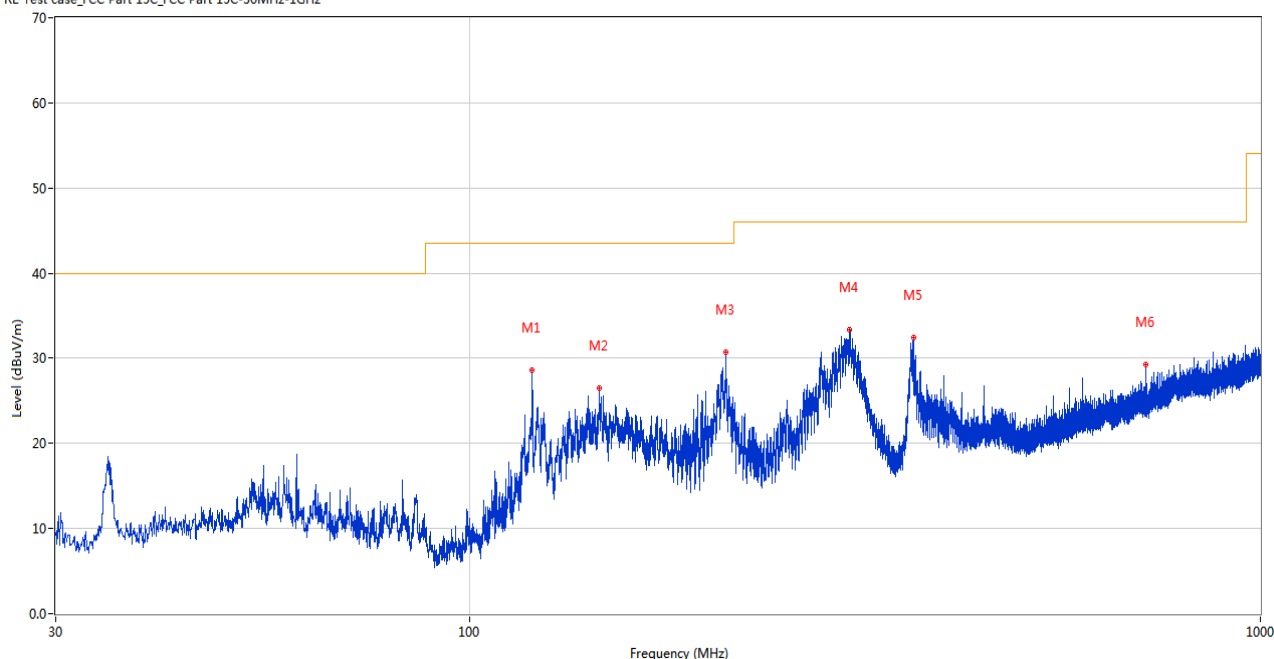
Note³: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Note⁴: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and normal link mode is worst.

Test Data and Plots

30 MHz to 1 GHz, ANT H

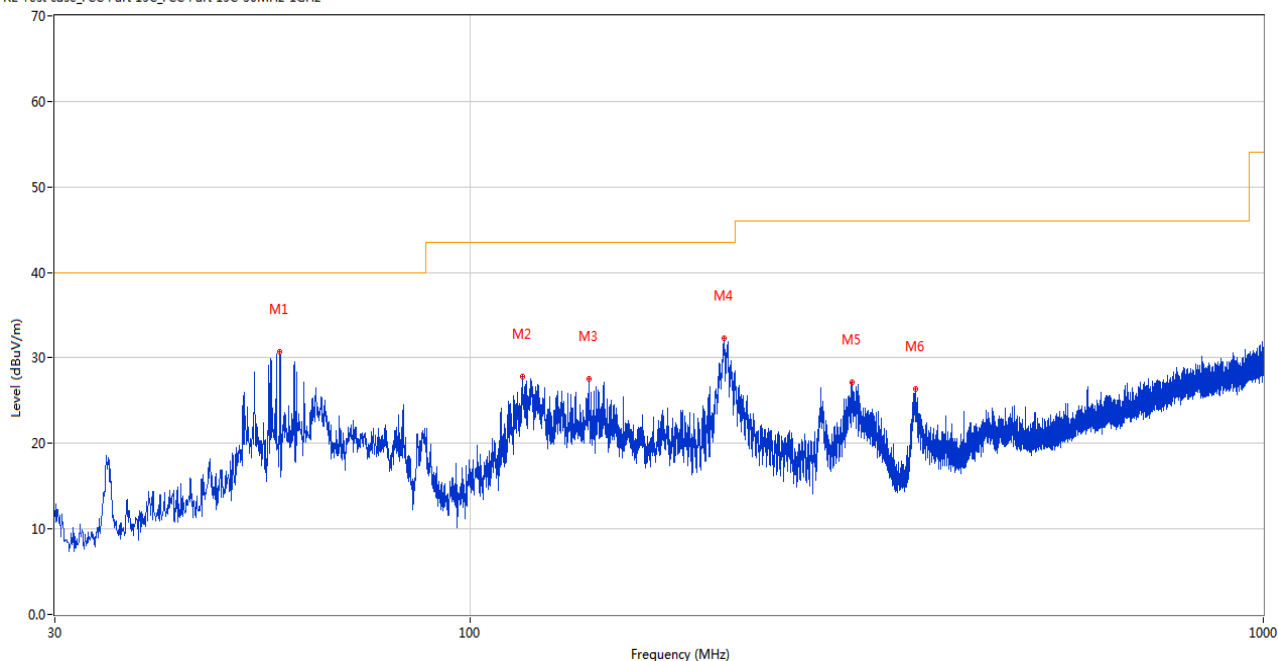
RE Test case_FCC Part 15C_FCC Part 15C-30MHz-1GHz



No.	Frequency (MHz)	Results (dBUV/m)	Factor (dB)	Limit (dBUV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	120.161	28.56	-27.00	43.5	14.94	Peak	298.00	100	Horizontal	Pass
2	145.866	26.50	-24.33	43.5	17.00	Peak	149.00	100	Horizontal	Pass
3	211.099	30.66	-27.47	43.5	12.84	Peak	105.00	100	Horizontal	Pass
4	302.667	33.36	-22.55	46.0	12.64	Peak	25.00	100	Horizontal	Pass
5	364.214	32.42	-20.80	46.0	13.58	Peak	47.00	100	Horizontal	Pass
6	716.275	29.29	-12.32	46.0	16.71	Peak	198.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

RE Test case_FCC Part 15C_FCC Part 15C-30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	57.645	30.77	-25.47	40.0	9.23	Peak	342.00	100	Vertical	Pass
2	116.573	27.88	-27.32	43.5	15.62	Peak	256.00	100	Vertical	Pass
3	141.453	27.50	-24.77	43.5	16.00	Peak	317.00	100	Vertical	Pass
4	209.208	32.31	-27.42	43.5	11.19	Peak	360.00	100	Vertical	Pass
5	302.813	27.16	-22.55	46.0	18.84	Peak	8.00	100	Vertical	Pass
6	364.310	26.43	-20.80	46.0	19.57	Peak	11.00	100	Vertical	Pass

Note¹: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

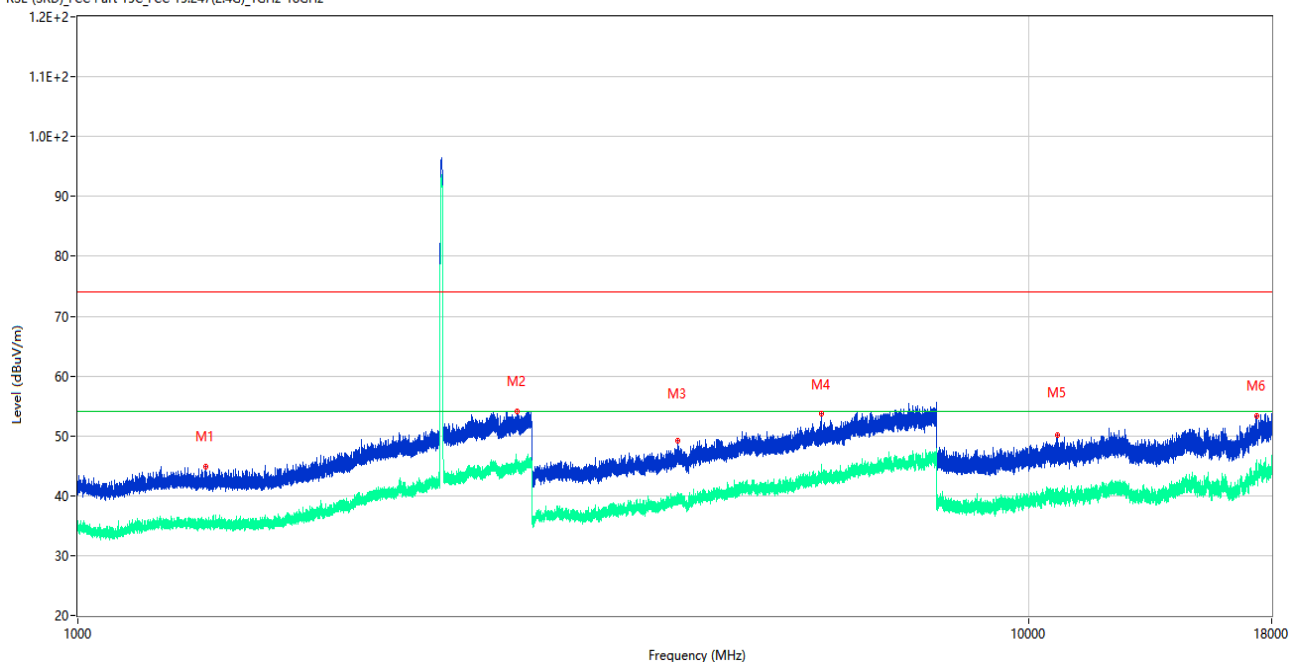
Note²: The spurious above 18G is noise only, do not show on the report.

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

SISO-ANT0

1 GHz to 18 GHz, ANT H 802.11b Low Channel

RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1361.309	44.96	74.0	29.04	Peak	294.00	300	Horizontal	Pass
1**	1361.309	35.40	54.0	18.60	AV	294.00	300	Horizontal	Pass
2	2901.376	54.29	74.0	19.71	Peak	122.00	400	Horizontal	Pass
2**	2901.376	44.72	54.0	9.28	AV	122.00	400	Horizontal	Pass
3	4278.394	49.23	74.0	24.77	Peak	243.00	200	Horizontal	Pass
3**	4278.394	39.35	54.0	14.66	AV	243.00	200	Horizontal	Pass
4	6060.018	53.89	74.0	20.11	Peak	107.00	100	Horizontal	Pass
4**	6060.018	43.78	54.0	10.22	AV	107.00	100	Horizontal	Pass
5	10724.103	50.30	74.0	23.70	Peak	68.00	200	Horizontal	Pass
5**	10724.103	40.60	54.0	13.41	AV	68.00	200	Horizontal	Pass
6	17346.190	53.40	74.0	20.60	Peak	31.00	100	Horizontal	Pass
6**	17346.190	44.48	54.0	9.52	AV	31.00	100	Horizontal	Pass