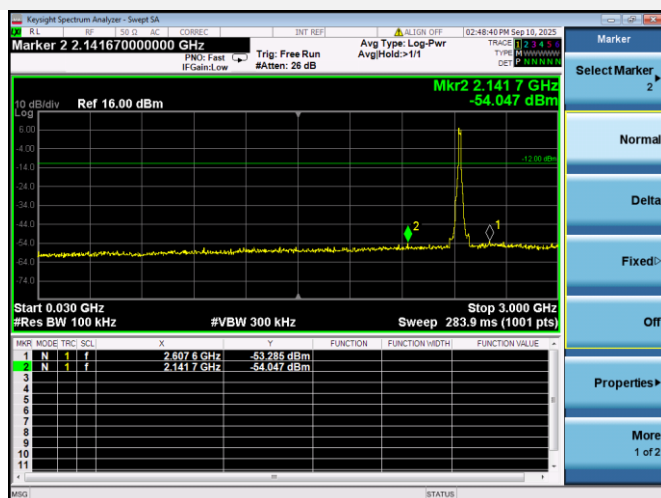
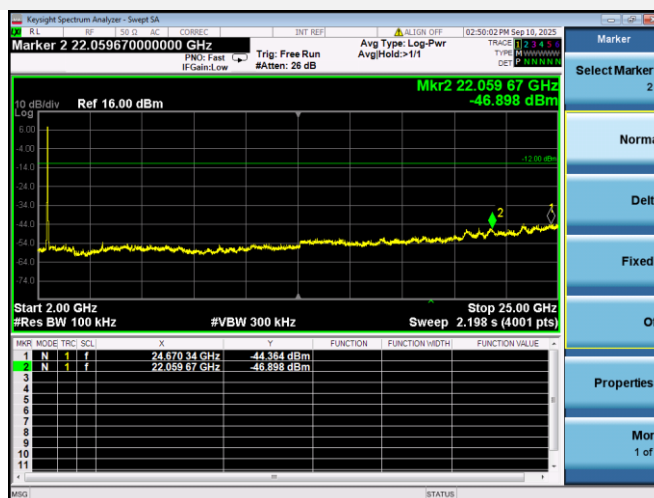


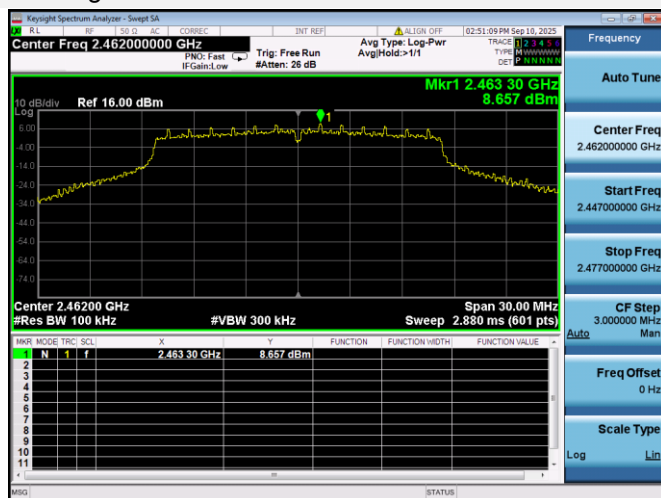
802.11g MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



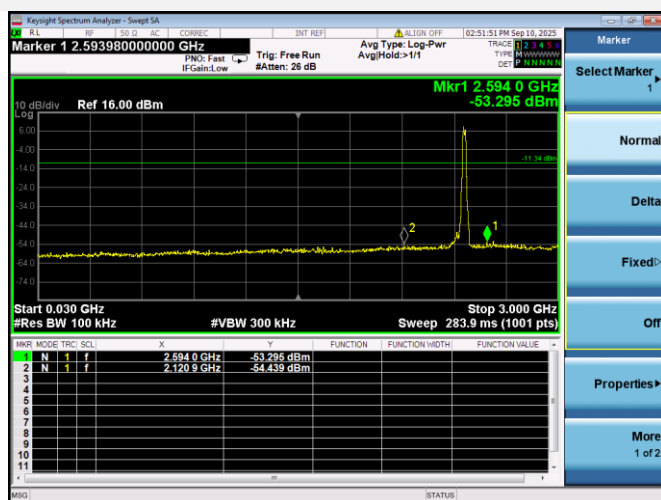
802.11g MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



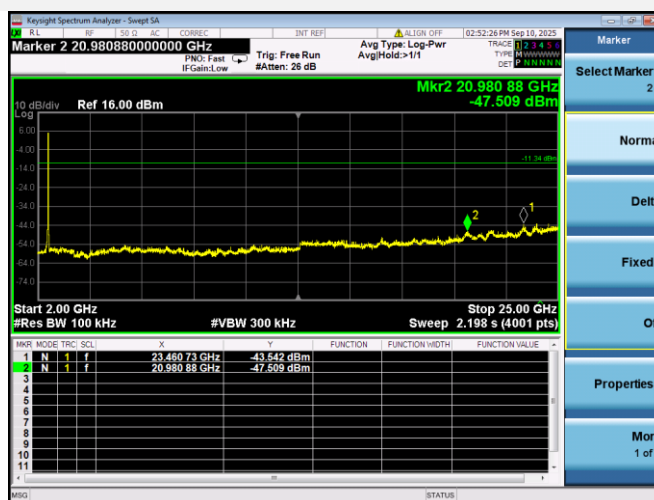
802.11g HIGH CHANNEL CARRIER LEVEL



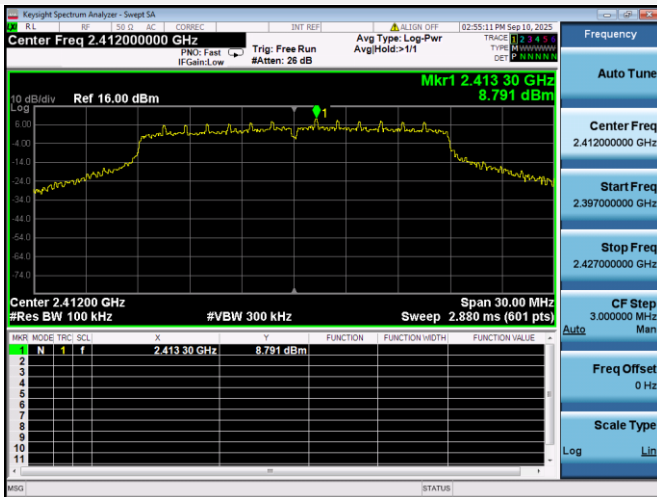
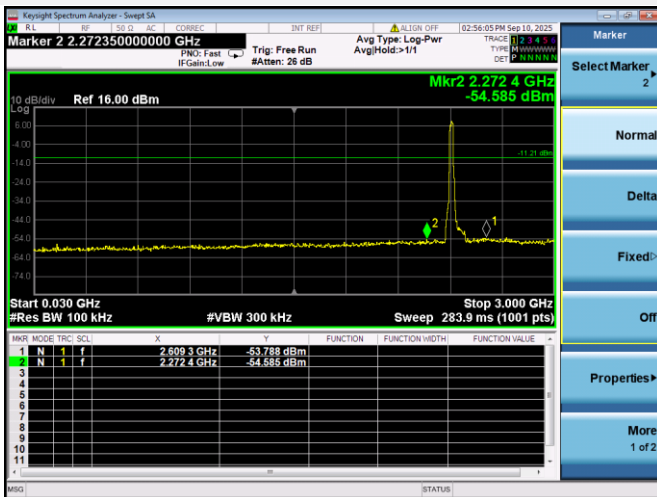
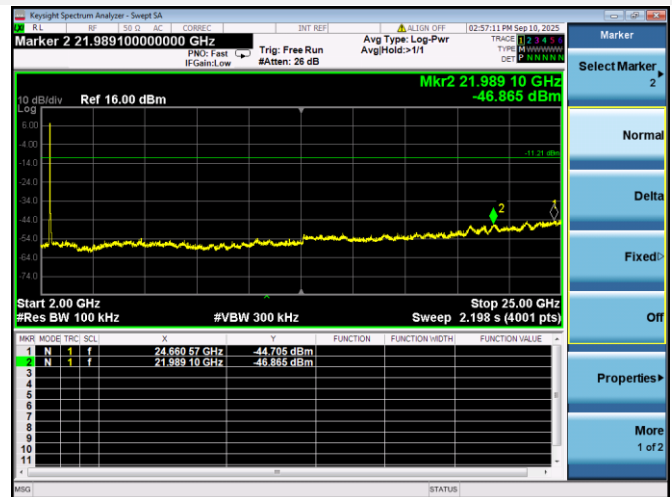
802.11g HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



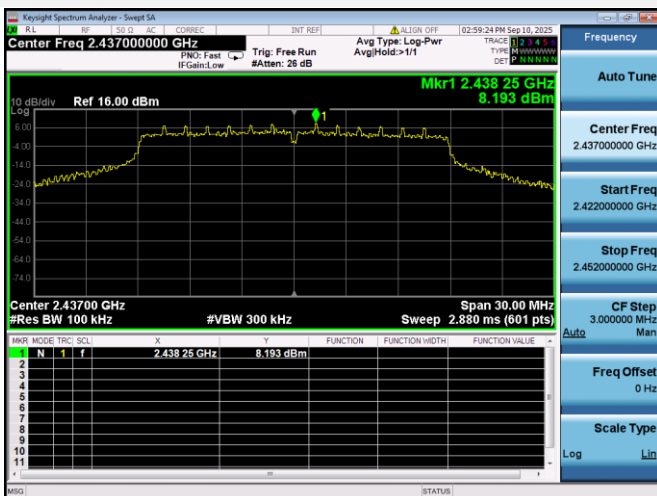
802.11g HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



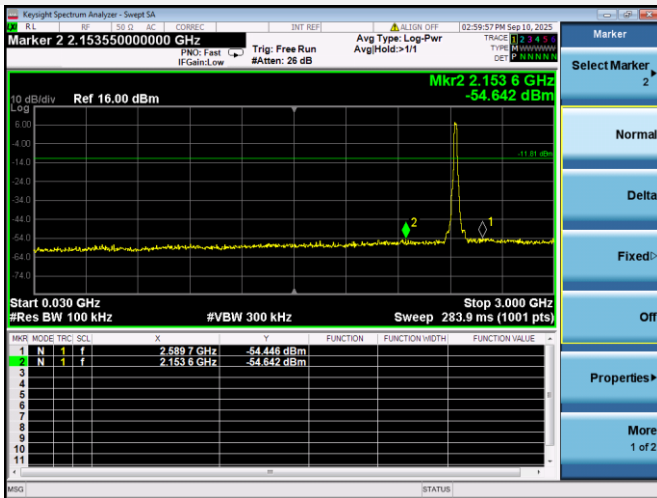
802.11n-20 MHz LOW CHANNEL CARRIER LEVEL

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

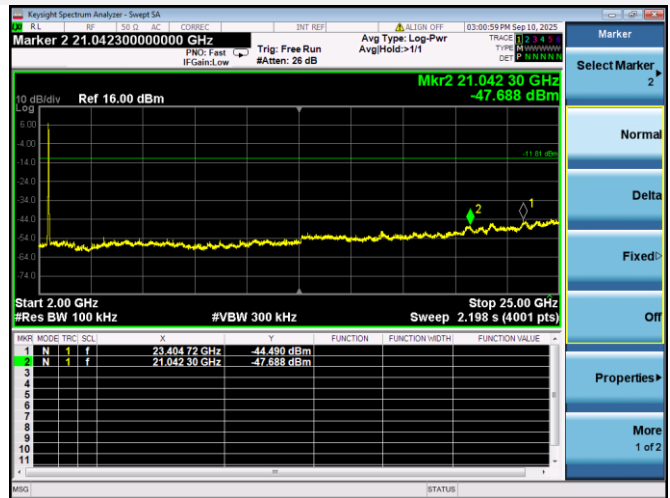
802.11n-20 MHz MIDDLE CHANNEL CARRIER LEVEL



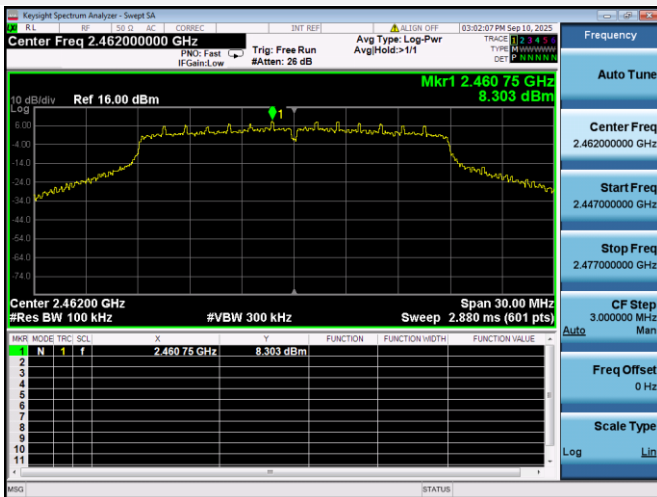
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



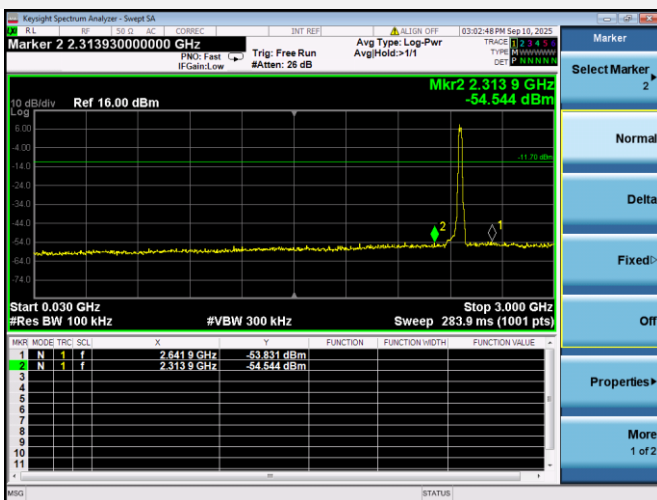
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



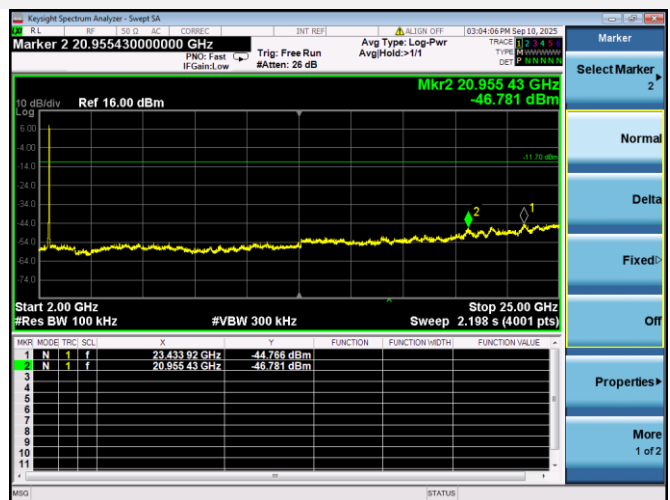
802.11n-20 MHz HIGH CHANNEL CARRIER LEVEL



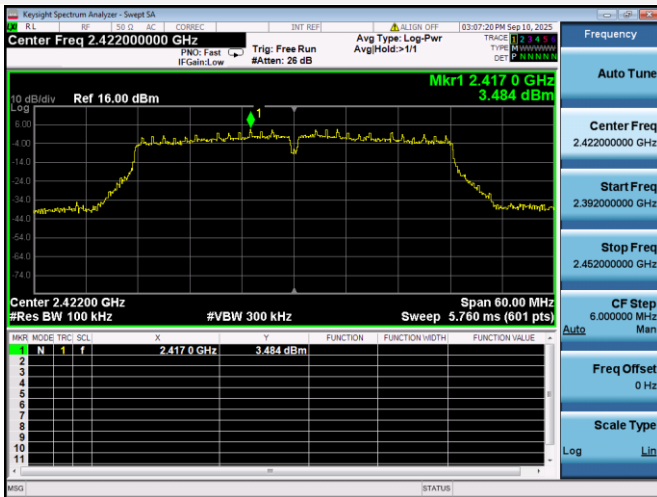
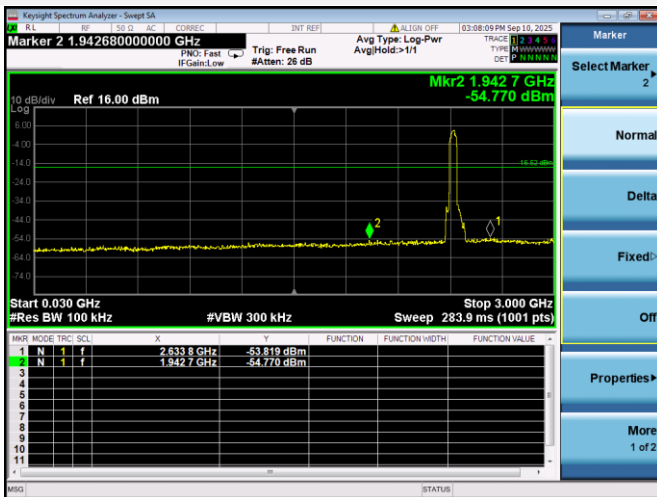
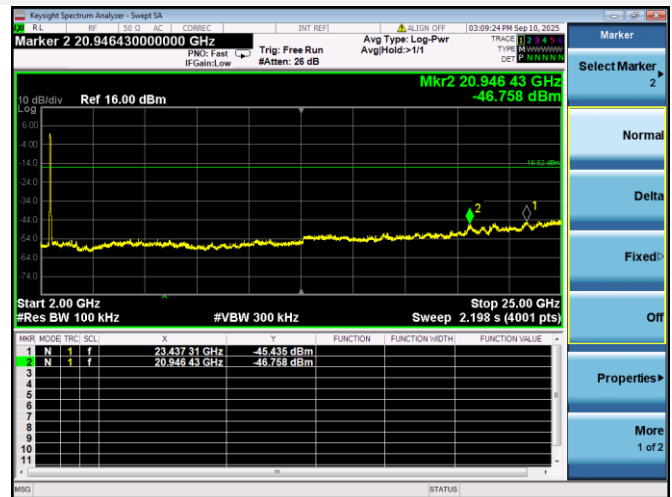
802.11n-20 MHz HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



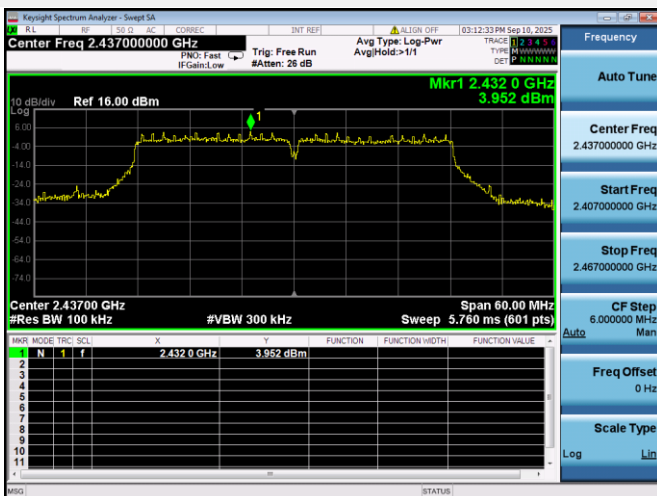
802.11n-20 MHz HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



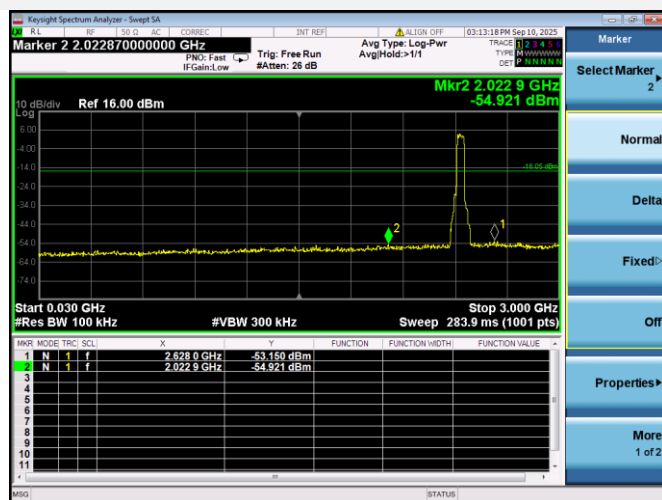
802.11n-40 MHz LOW CHANNEL CARRIER LEVEL

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

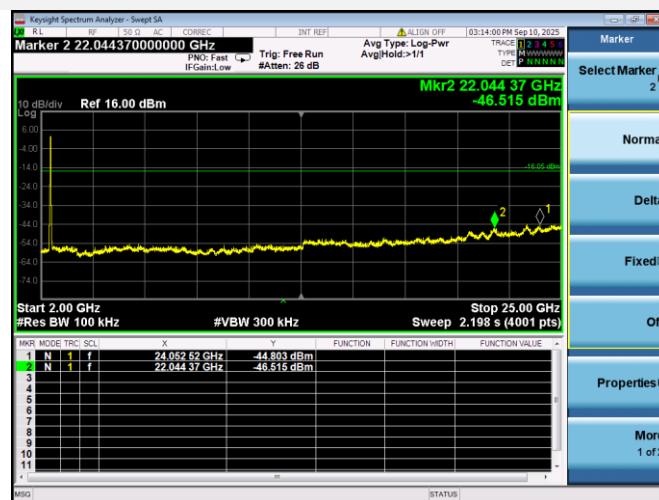
802.11n-40 MHz MIDDLE CHANNEL CARRIER LEVEL



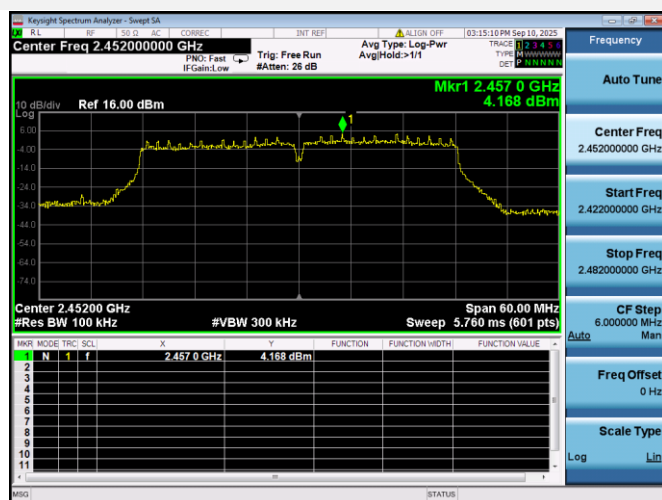
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



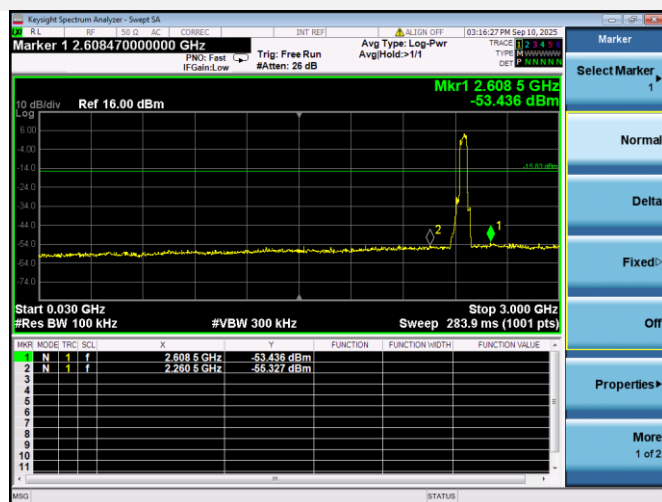
802.11n-40 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



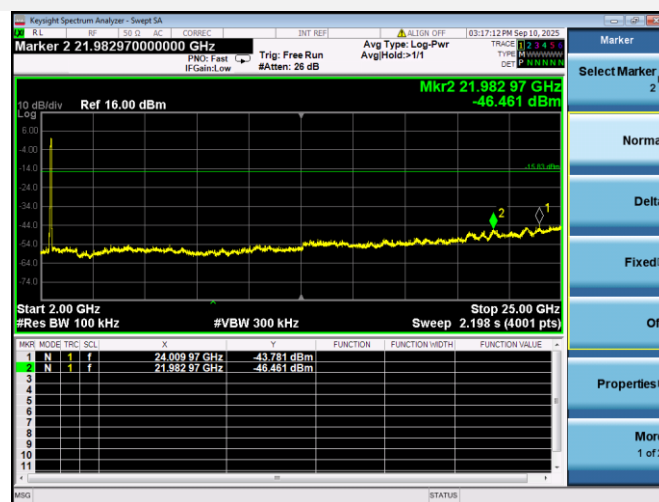
802.11n-40 MHz HIGH CHANNEL CARRIER LEVEL



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



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



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.

Test Data

802.11b Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-33.70	11.90	-8.10	Pass
High	-41.81	12.08	-7.92	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-21.31	8.75	-11.25	Pass
High	-38.49	8.66	-11.34	Pass

802.11n-20 MHz Mode:

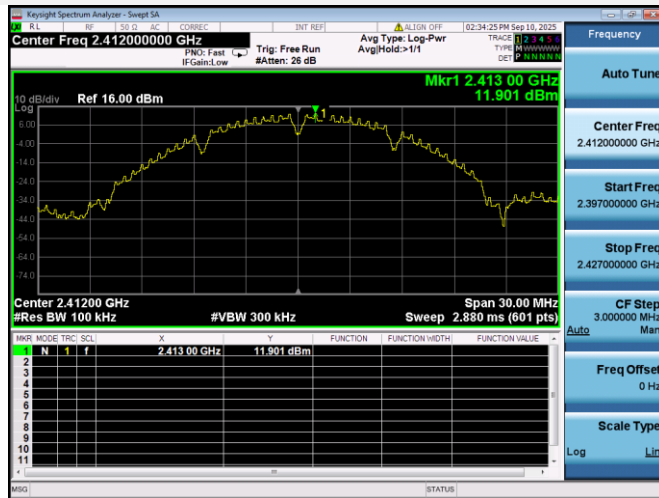
Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-20.01	8.79	-11.21	Pass
High	-39.51	8.30	-11.70	Pass

802.11n-40 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-35.14	3.48	-16.52	Pass
High	-33.85	4.17	-15.83	Pass

Test Plots

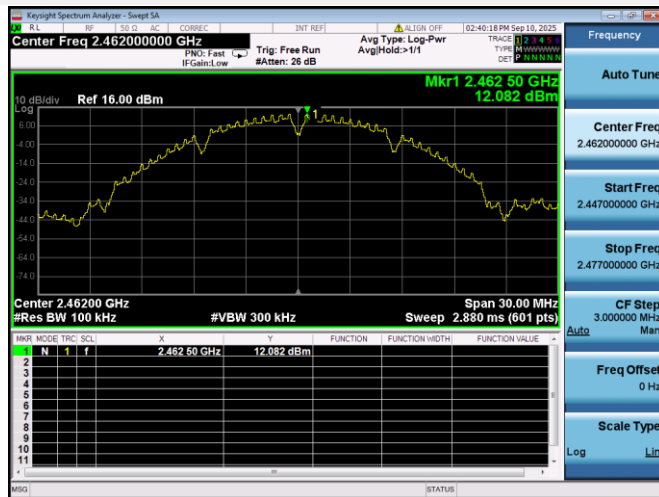
802.11b LOW CHANNEL, CARRIER LEVEL



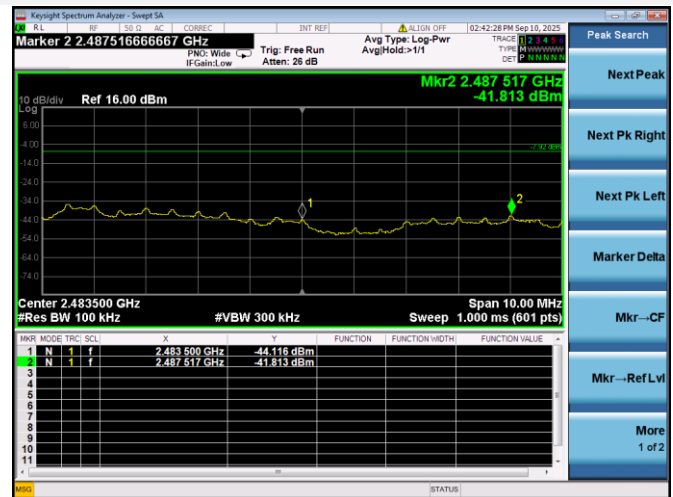
802.11b LOW CHANNEL, BAND EDGE



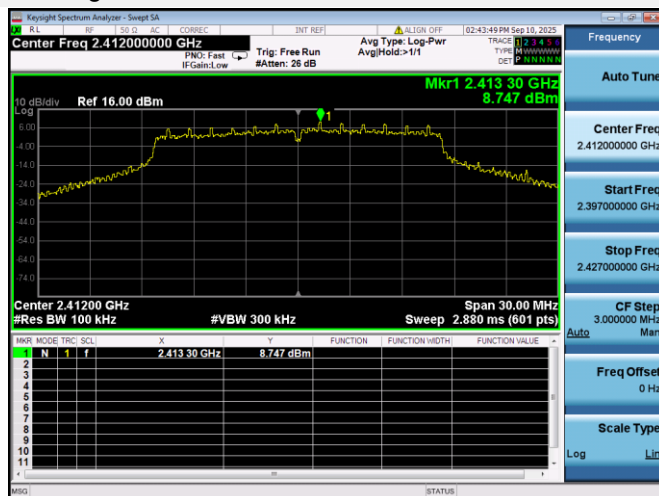
802.11b HIGH CHANNEL, CARRIER LEVEL



802.11b HIGH CHANNEL, BAND EDGE



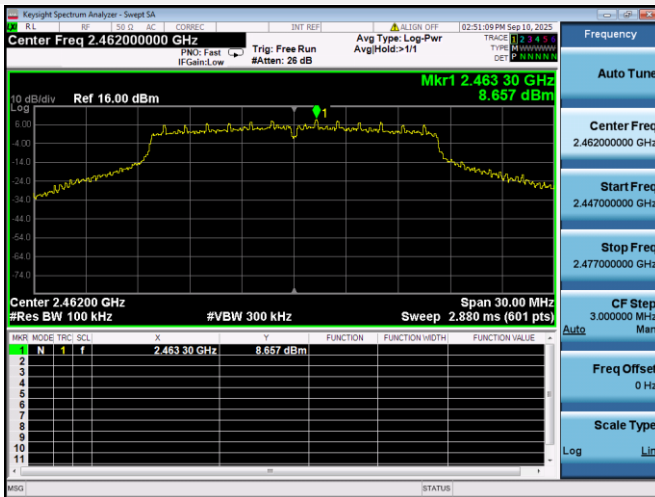
802.11g LOW CHANNEL, CARRIER LEVEL



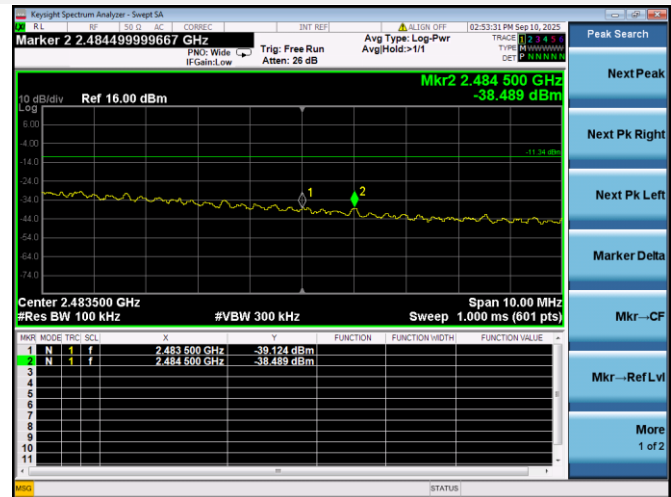
802.11g LOW CHANNEL, BAND EDGE



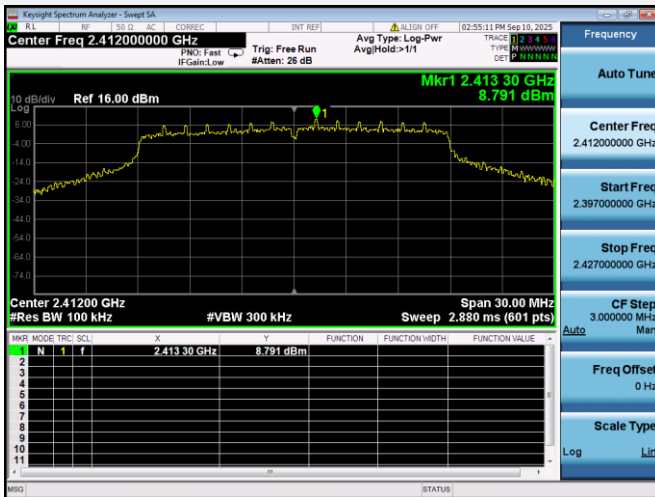
802.11g HIGH CHANNEL, CARRIER LEVEL



802.11g HIGH CHANNEL, BAND EDGE



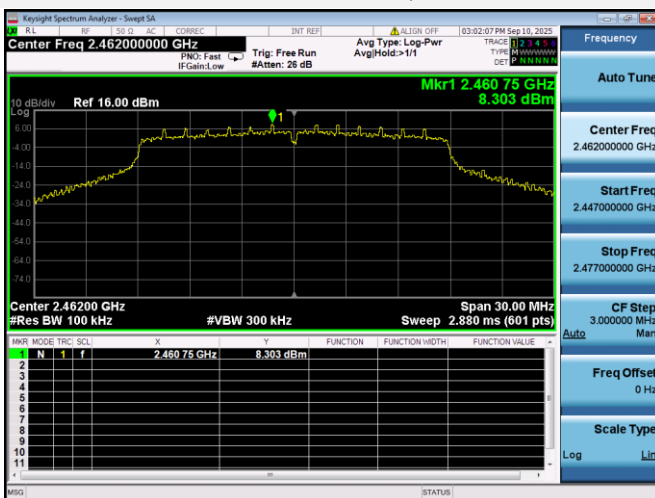
802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



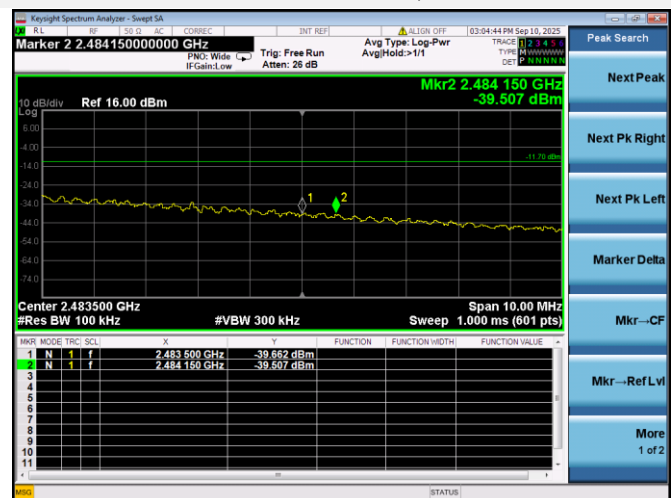
802.11n-20 MHz LOW CHANNEL, BAND EDGE



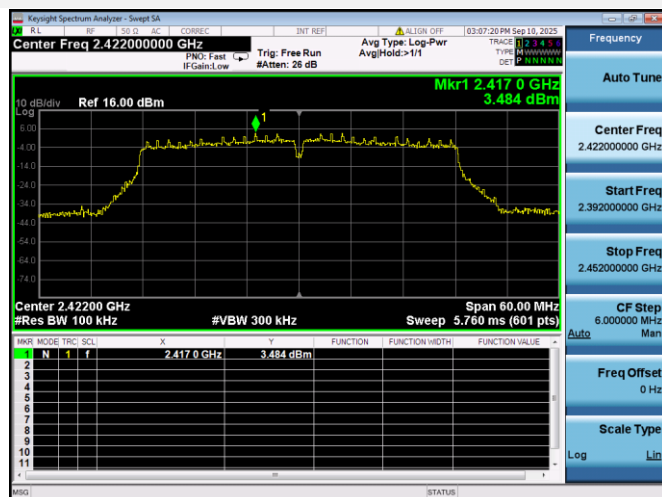
802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL



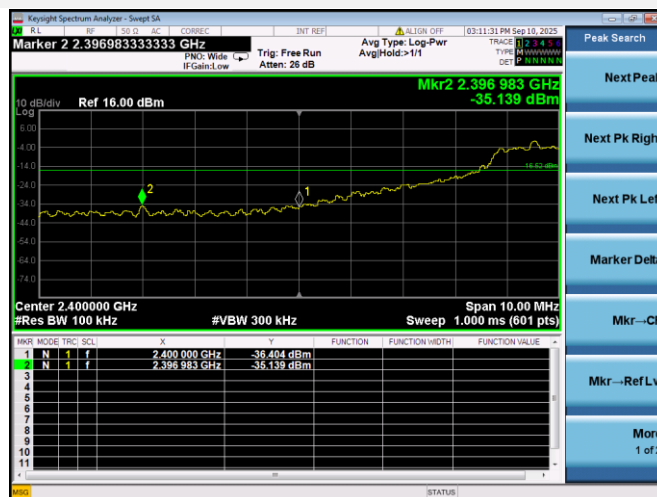
802.11n-20 MHz HIGH CHANNEL, BAND EDGE



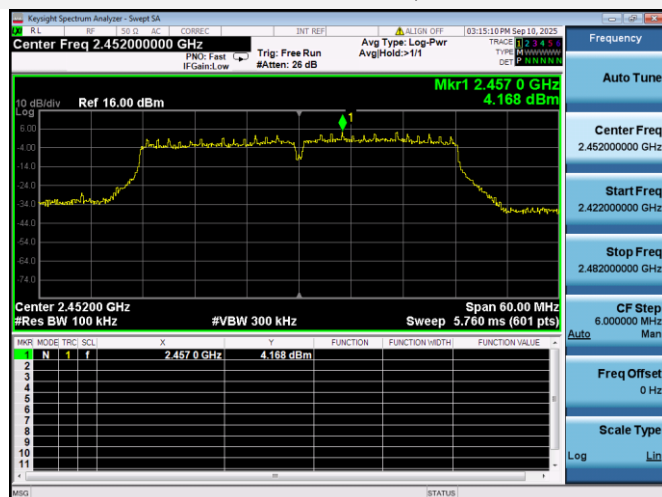
802.11n-40 MHz LOW CHANNEL, CARRIER LEVEL



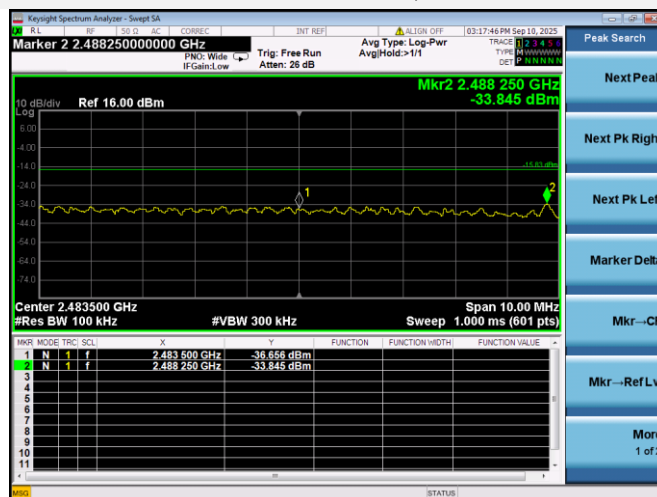
802.11n-40 MHz LOW CHANNEL, BAND EDGE



802.11n-40 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-40 MHz HIGH CHANNEL, BAND EDGE



A.5 Conducted Emission

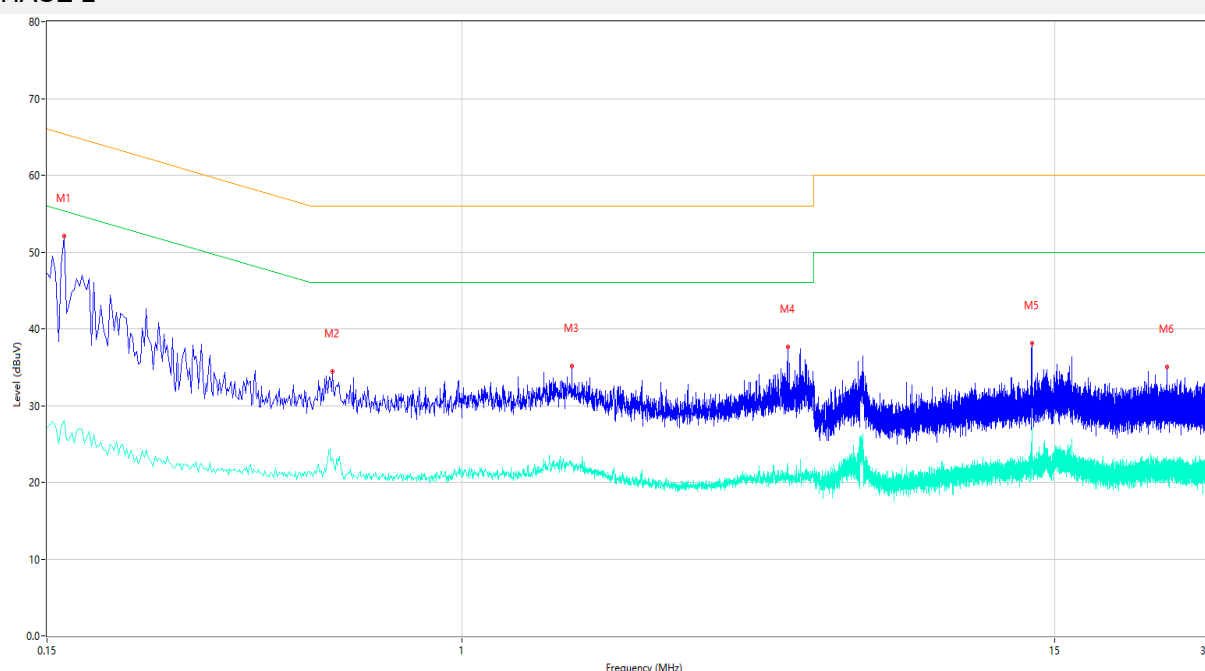
Note 1: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

Note 2: 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.

Note 3: Results (dBuV) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

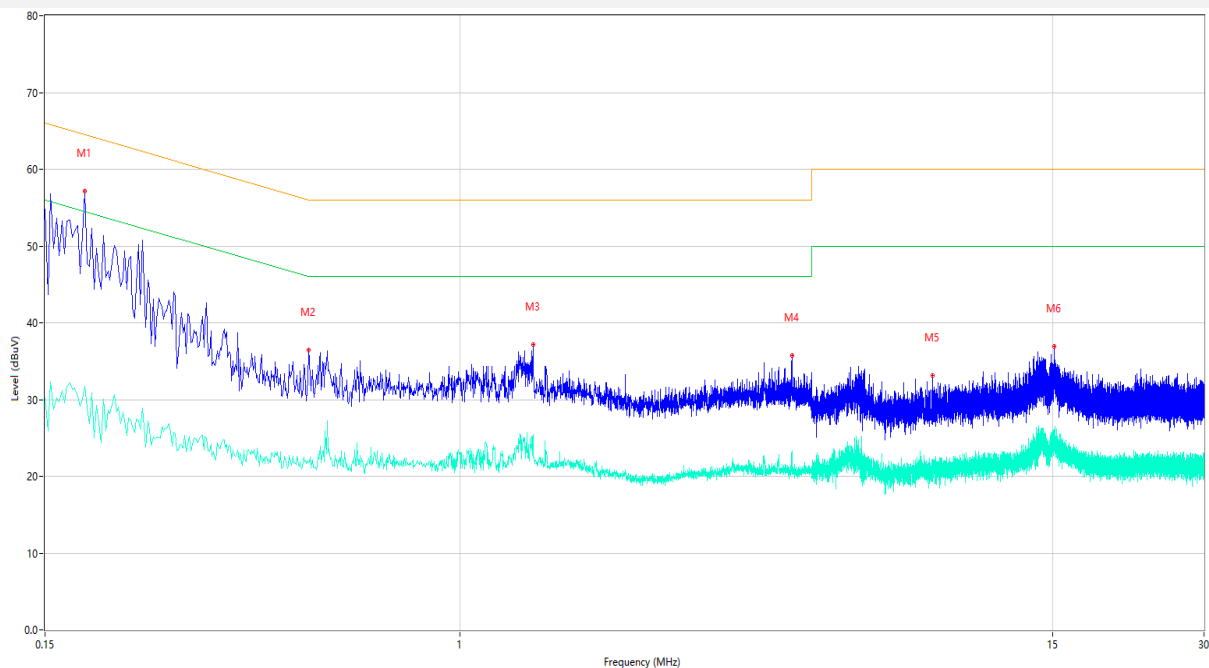
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin(dB)	Detector	Line	Verdict
1	0.162	52.06	10.07	65.36	13.30	Peak	L	Pass
1**	0.162	28.01	10.07	55.36	27.35	AV	L	Pass
2	0.554	34.43	10.17	56.00	21.57	Peak	L	Pass
2**	0.554	23.24	10.17	46.00	22.76	AV	L	Pass
3	1.652	35.12	10.29	56.00	20.88	Peak	L	Pass
3**	1.652	22.33	10.29	46.00	23.67	AV	L	Pass
4	4.436	37.59	10.43	56.00	18.41	Peak	L	Pass
4**	4.436	22.46	10.43	46.00	23.54	AV	L	Pass
5	13.546	38.11	11.11	60.00	21.89	Peak	L	Pass
5**	13.546	27.26	11.11	50.00	22.74	AV	L	Pass
6	25.120	35.00	11.71	60.00	25.00	Peak	L	Pass
6**	25.120	22.36	11.71	50.00	27.64	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin(dB)	Detector	Line	Verdict
1	0.180	57.15	10.15	64.49	7.34	Peak	N	Pass
1**	0.180	31.72	10.15	54.49	22.77	AV	N	Pass
2	0.500	36.41	10.17	56.00	19.59	Peak	N	Pass
2**	0.500	21.79	10.17	46.00	24.21	AV	N	Pass
3	1.398	37.13	10.24	56.00	18.87	Peak	N	Pass
3**	1.398	25.47	10.24	46.00	20.53	AV	N	Pass
4	4.558	35.76	10.41	56.00	20.24	Peak	N	Pass
4**	4.558	23.31	10.41	46.00	22.69	AV	N	Pass
5	8.686	33.16	10.80	60.00	26.84	Peak	N	Pass
5**	8.686	21.02	10.80	50.00	28.98	AV	N	Pass
6	15.142	36.88	11.13	60.00	23.12	Peak	N	Pass
6**	15.142	26.21	11.13	50.00	23.79	AV	N	Pass

A.6 Radiated Emission

Note 1: The symbol of "--" in the table which means not application.

Note 2: 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.

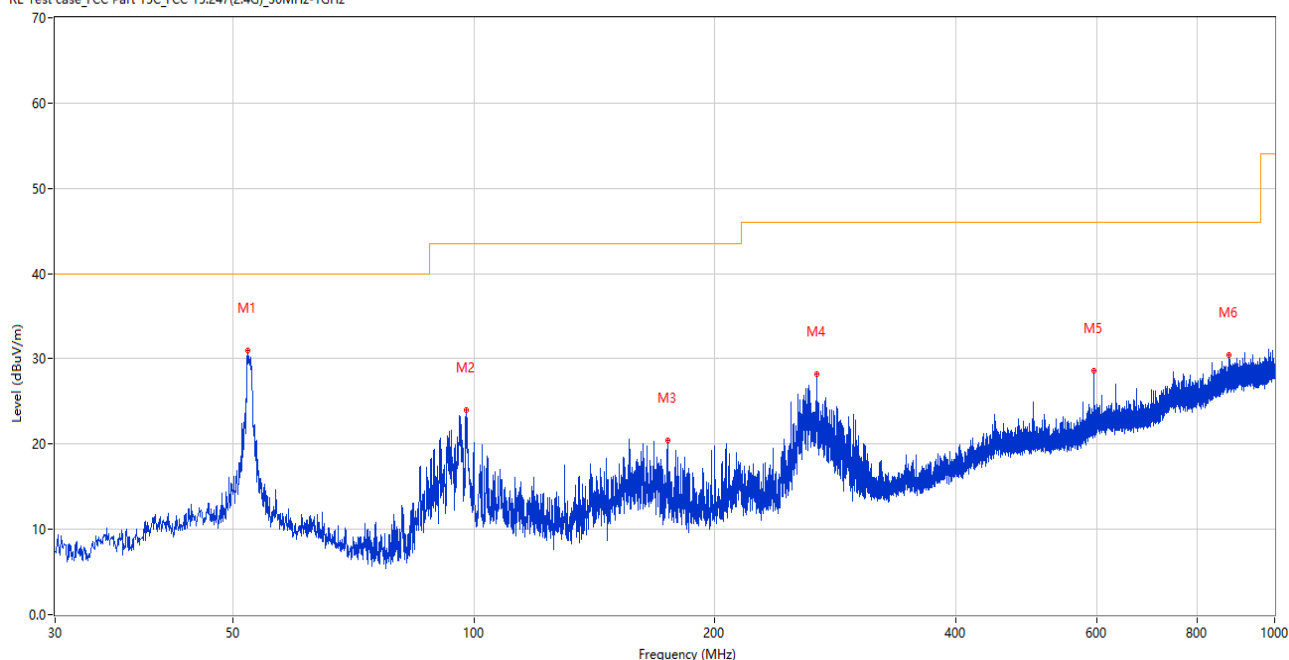
Note 3: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

Note 4: 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

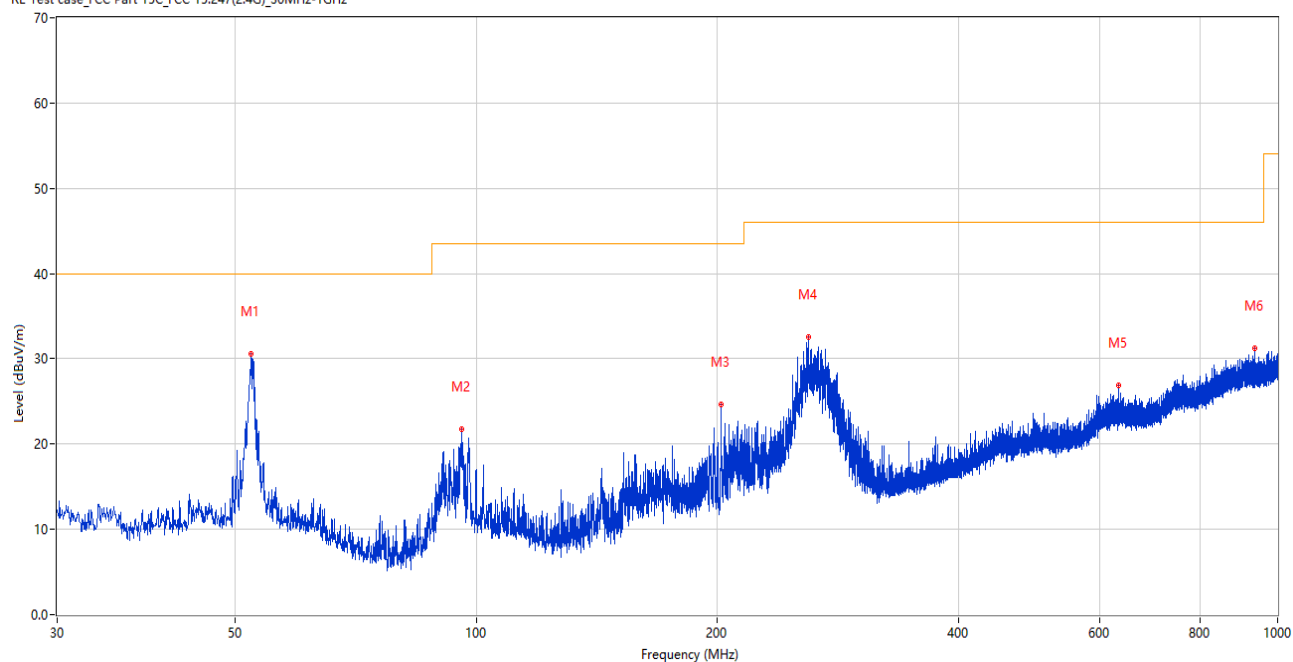
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	52.164	31.01	-24.71	40.0	8.99	Peak	8.00	200	Horizontal	Pass
2	97.900	24.00	-26.26	43.5	19.50	Peak	234.00	200	Horizontal	Pass
3	174.579	20.49	-28.24	43.5	23.01	Peak	257.00	100	Horizontal	Pass
4	268.378	28.17	-24.08	46.0	17.83	Peak	233.00	100	Horizontal	Pass
5	595.219	28.59	-15.10	46.0	17.41	Peak	51.00	200	Horizontal	Pass
6	875.985	30.41	-9.65	46.0	15.59	Peak	110.00	100	Horizontal	Pass

30 MHz to 1 GHz, ANT V

RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	52.407	30.64	-24.72	40.0	9.36	Peak	149.00	100	Vertical	Pass
2	95.863	21.73	-26.55	43.5	21.77	Peak	117.00	100	Vertical	Pass
3	202.175	24.60	-26.10	43.5	18.90	Peak	31.00	100	Vertical	Pass
4	260.084	32.62	-24.11	46.0	13.38	Peak	48.00	100	Vertical	Pass
5	633.437	26.88	-14.66	46.0	19.12	Peak	155.00	100	Vertical	Pass
6	935.834	31.23	-8.93	46.0	14.77	Peak	0.00	100	Vertical	Pass

Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

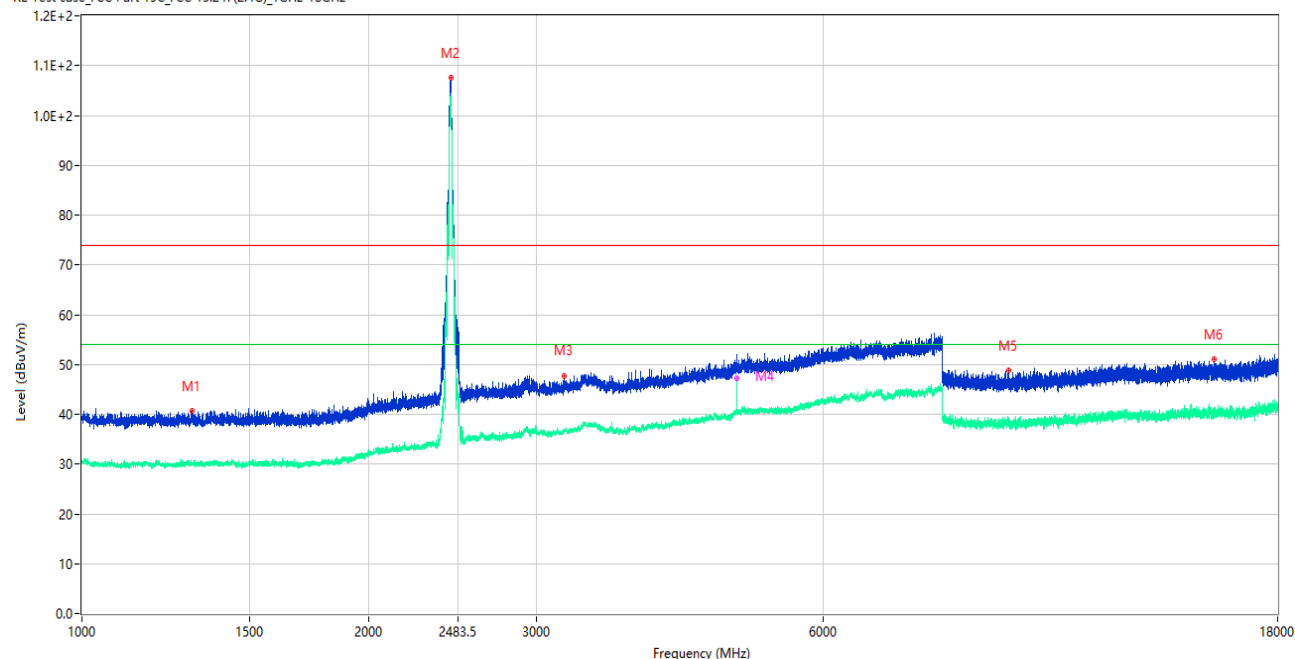
Note 2: The spurious above 18G is noise only, do not show on the report.

Note 3: All antenna were pre tested, but only the worst case has been reported in this report.

Note 4: All the configurations were pre tested, only the worst configuration has been reported in this report.

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

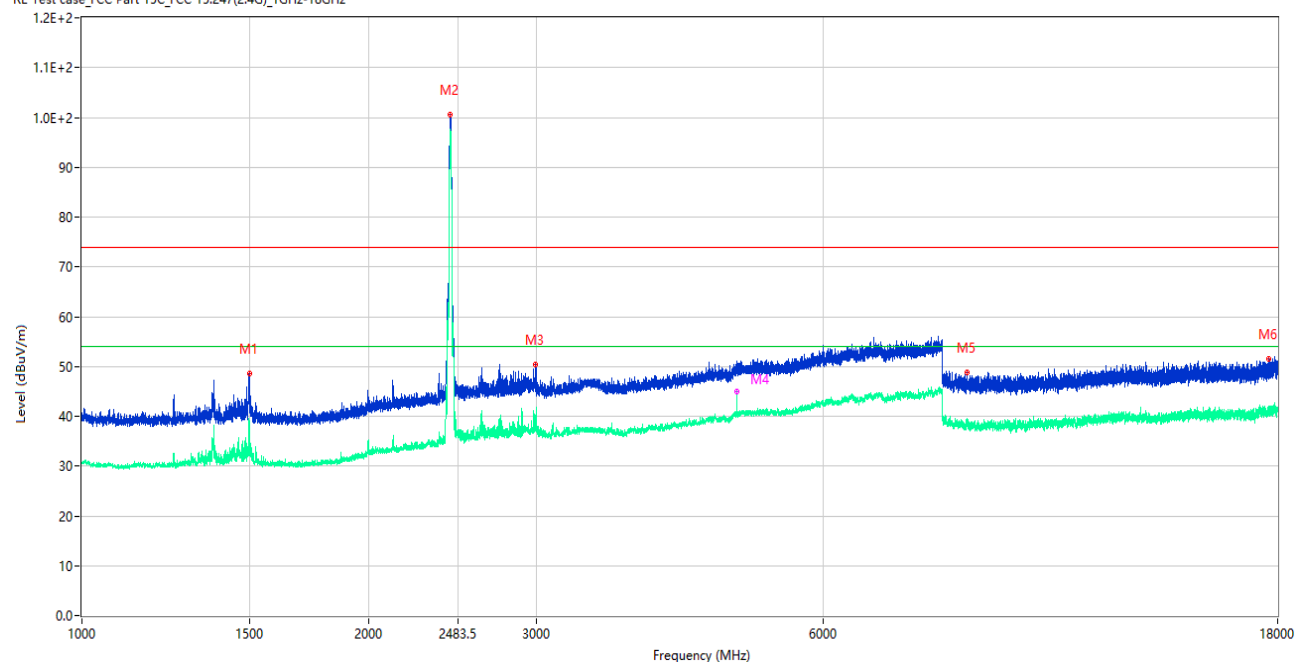
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1306.250	40.66	-15.62	74.0	33.34	Peak	122.00	150	Horizontal	Pass
1**	1306.250	30.39	-15.62	54.0	23.61	AV	122.00	150	Horizontal	Pass
2	2438.500	107.55	-12.37	74.0	-33.55	Peak	228.00	150	Horizontal	N/A
2**	2438.500	104.26	-12.37	54.0	-50.26	AV	228.00	150	Horizontal	N/A
3	3211.000	47.79	-6.83	74.0	26.21	Peak	288.00	150	Horizontal	Pass
3**	3211.000	36.48	-6.83	54.0	17.52	AV	288.00	150	Horizontal	Pass
4	4874.500	51.99	-2.25	74.0	22.01	Peak	209.00	150	Horizontal	Pass
4**	4874.500	47.28	-2.25	54.0	6.72	AV	209.00	150	Horizontal	Pass
5	9389.500	48.70	-4.57	74.0	25.30	Peak	206.00	150	Horizontal	Pass
5**	9389.500	38.47	-4.57	54.0	15.53	AV	206.00	150	Horizontal	Pass
6	15451.500	51.02	-2.03	74.0	22.98	Peak	206.00	150	Horizontal	Pass
6**	15451.500	40.57	-2.03	54.0	13.43	AV	206.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11b Middle Channel

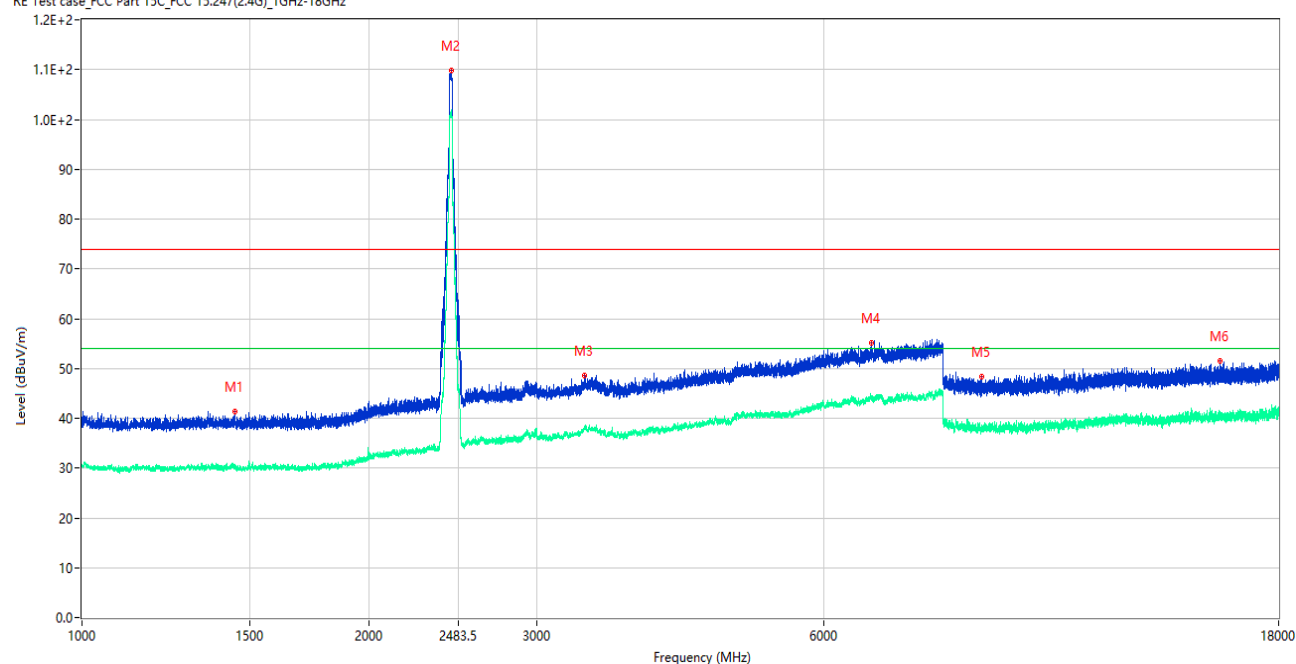
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1498.500	48.64	-16.13	74.0	25.36	Peak	126.00	150	Vertical	Pass
1**	1498.500	37.79	-16.13	54.0	16.21	AV	126.00	150	Vertical	Pass
2	2435.750	100.63	-12.32	74.0	-26.63	Peak	168.00	150	Vertical	N/A
2**	2435.750	97.66	-12.32	54.0	-43.66	AV	168.00	150	Vertical	N/A
3	2995.000	50.46	-8.89	74.0	23.54	Peak	112.00	150	Vertical	Pass
3**	2995.000	38.60	-8.89	54.0	15.40	AV	112.00	150	Vertical	Pass
4	4874.500	50.59	-2.25	74.0	23.41	Peak	360.00	150	Vertical	Pass
4**	4874.500	45.02	-2.25	54.0	8.98	AV	360.00	150	Vertical	Pass
5	8489.000	48.86	-4.76	74.0	25.14	Peak	242.00	150	Vertical	Pass
5**	8489.000	38.70	-4.76	54.0	15.30	AV	242.00	150	Vertical	Pass
6	17616.501	51.48	0.43	74.0	22.52	Peak	360.00	150	Vertical	Pass
6**	17616.501	41.12	0.43	54.0	12.88	AV	360.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11g Middle Channel

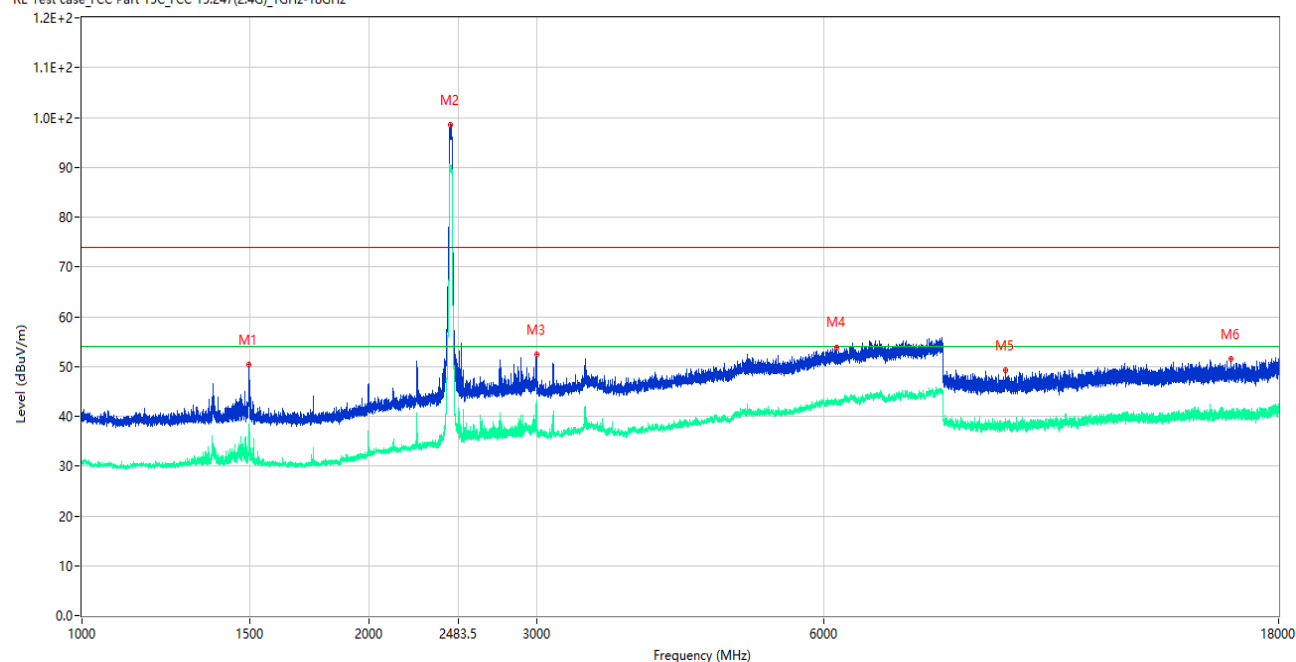
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1445.750	41.43	-15.93	74.0	32.57	Peak	48.00	150	Horizontal	Pass
1**	1445.750	30.31	-15.93	54.0	23.69	AV	48.00	150	Horizontal	Pass
2	2438.000	109.80	-12.38	74.0	-35.80	Peak	248.00	150	Horizontal	N/A
2**	2438.000	101.52	-12.38	54.0	-47.52	AV	248.00	150	Horizontal	N/A
3	3365.000	48.59	-5.19	74.0	25.41	Peak	182.00	150	Horizontal	Pass
3**	3365.000	38.46	-5.19	54.0	15.54	AV	182.00	150	Horizontal	Pass
4	6728.500	55.06	0.65	74.0	18.94	Peak	202.00	150	Horizontal	Pass
4**	6728.500	44.08	0.65	54.0	9.92	AV	202.00	150	Horizontal	Pass
5	8787.000	48.41	-5.25	74.0	25.59	Peak	66.00	150	Horizontal	Pass
5**	8787.000	37.58	-5.25	54.0	16.42	AV	66.00	150	Horizontal	Pass
6	15627.500	51.60	-1.63	74.0	22.40	Peak	0.00	150	Horizontal	Pass
6**	15627.500	40.32	-1.63	54.0	13.68	AV	0.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11g Middle Channel

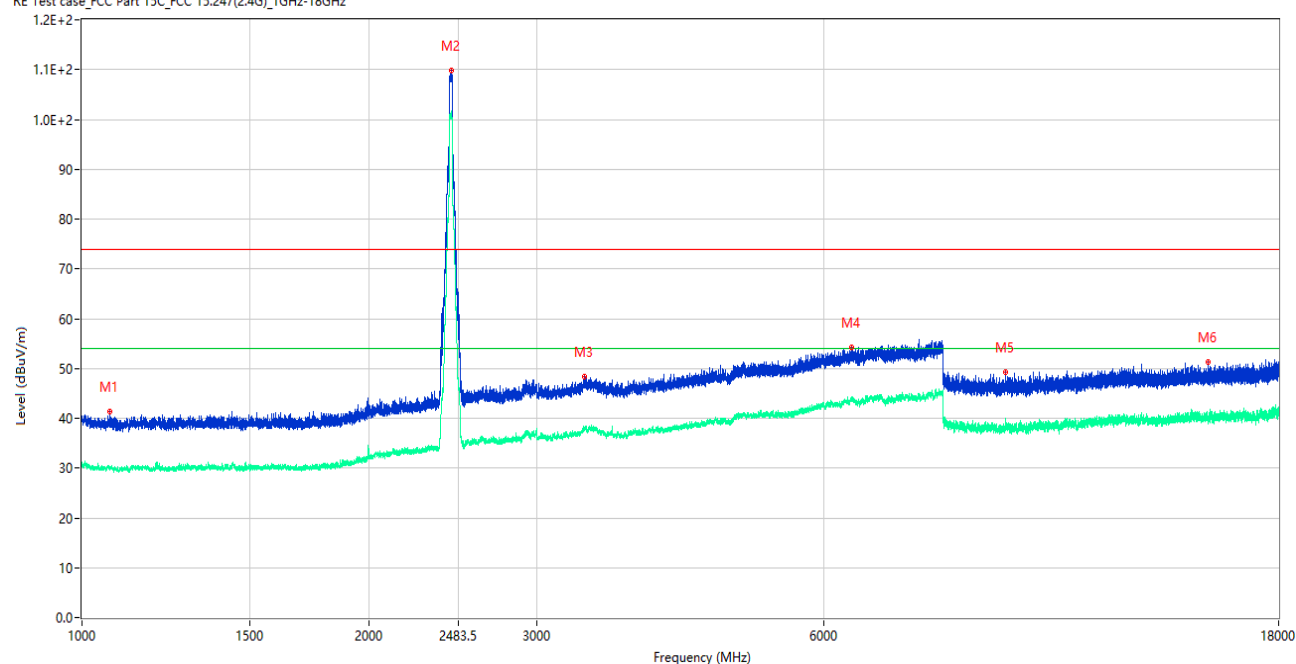
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1497.500	50.37	-16.14	74.0	23.63	Peak	105.00	150	Vertical	Pass
1**	1497.500	37.47	-16.14	54.0	16.53	AV	105.00	150	Vertical	Pass
2	2436.250	98.59	-12.35	74.0	-24.59	Peak	96.00	150	Vertical	N/A
2**	2436.250	90.06	-12.35	54.0	-36.06	AV	96.00	150	Vertical	N/A
3	2999.750	52.39	-8.74	74.0	21.61	Peak	112.00	150	Vertical	Pass
3**	2999.750	38.62	-8.74	54.0	15.38	AV	112.00	150	Vertical	Pass
4	6197.000	53.87	-0.73	74.0	20.13	Peak	101.00	150	Vertical	Pass
4**	6197.000	42.88	-0.73	54.0	11.12	AV	101.00	150	Vertical	Pass
5	9304.500	49.24	-5.41	74.0	24.76	Peak	296.00	150	Vertical	Pass
5**	9304.500	38.54	-5.41	54.0	15.46	AV	296.00	150	Vertical	Pass
6	16060.500	51.45	-1.40	74.0	22.55	Peak	151.00	150	Vertical	Pass
6**	16060.500	40.70	-1.40	54.0	13.30	AV	151.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n20 Middle Channel

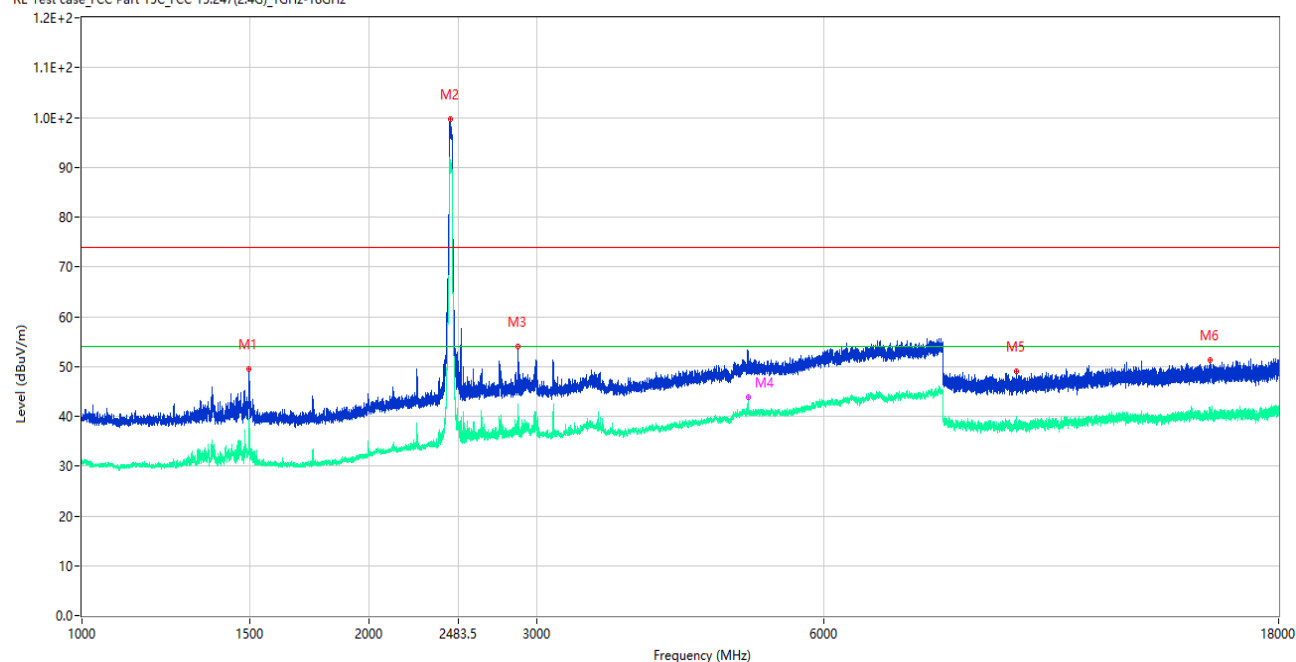
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1069.250	41.38	-15.19	74.0	32.62	Peak	62.00	150	Horizontal	Pass
1**	1069.250	29.98	-15.19	54.0	24.02	AV	62.00	150	Horizontal	Pass
2	2438.750	109.75	-12.37	74.0	-35.75	Peak	236.00	150	Horizontal	N/A
2**	2438.750	101.15	-12.37	54.0	-47.15	AV	236.00	150	Horizontal	N/A
3	3362.500	48.27	-5.50	74.0	25.73	Peak	0.00	150	Horizontal	Pass
3**	3362.500	37.83	-5.50	54.0	16.17	AV	0.00	150	Horizontal	Pass
4	6420.000	54.30	0.10	74.0	19.70	Peak	0.00	150	Horizontal	Pass
4**	6420.000	44.08	0.10	54.0	9.92	AV	0.00	150	Horizontal	Pass
5	9313.000	49.24	-5.37	74.0	24.76	Peak	236.00	150	Horizontal	Pass
5**	9313.000	38.80	-5.37	54.0	15.20	AV	236.00	150	Horizontal	Pass
6	15169.000	51.33	-3.11	74.0	22.67	Peak	321.00	150	Horizontal	Pass
6**	15169.000	40.01	-3.11	54.0	13.99	AV	321.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n20 Middle Channel

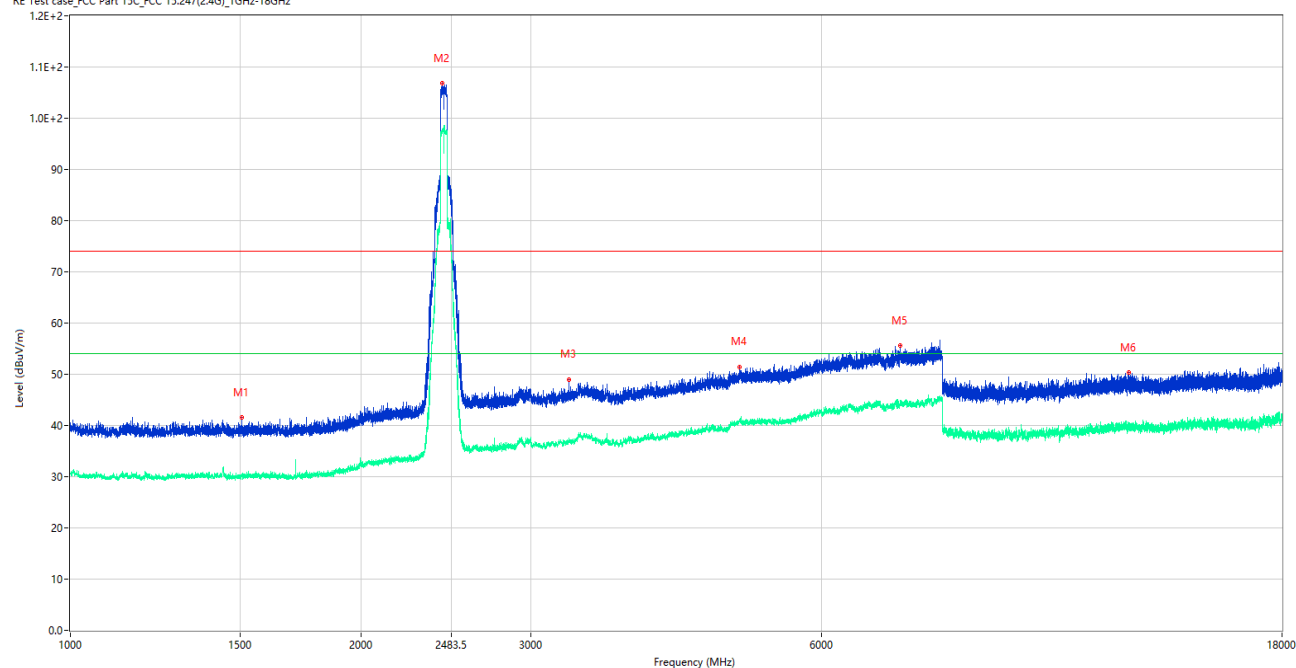
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1495.500	49.50	-16.17	74.0	24.50	Peak	115.00	150	Vertical	Pass
1**	1495.500	39.46	-16.17	54.0	14.54	AV	115.00	150	Vertical	Pass
2	2435.250	99.62	-12.29	74.0	-25.62	Peak	164.00	150	Vertical	N/A
2**	2435.250	90.49	-12.29	54.0	-36.49	AV	164.00	150	Vertical	N/A
3	2867.000	54.08	-9.68	74.0	19.92	Peak	119.00	150	Vertical	Pass
3**	2867.000	37.98	-9.68	54.0	16.02	AV	119.00	150	Vertical	Pass
4	4998.500	49.32	-2.20	74.0	24.68	Peak	93.00	150	Vertical	Pass
4**	4998.500	43.79	-2.20	54.0	10.21	AV	93.00	150	Vertical	Pass
5	9551.000	48.99	-2.51	74.0	25.01	Peak	216.00	150	Vertical	Pass
5**	9551.000	38.57	-2.51	54.0	15.43	AV	216.00	150	Vertical	Pass
6	15254.500	51.35	-1.22	74.0	22.65	Peak	216.00	150	Vertical	Pass
6**	15254.500	40.48	-1.22	54.0	13.52	AV	216.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11n40 Middle Channel

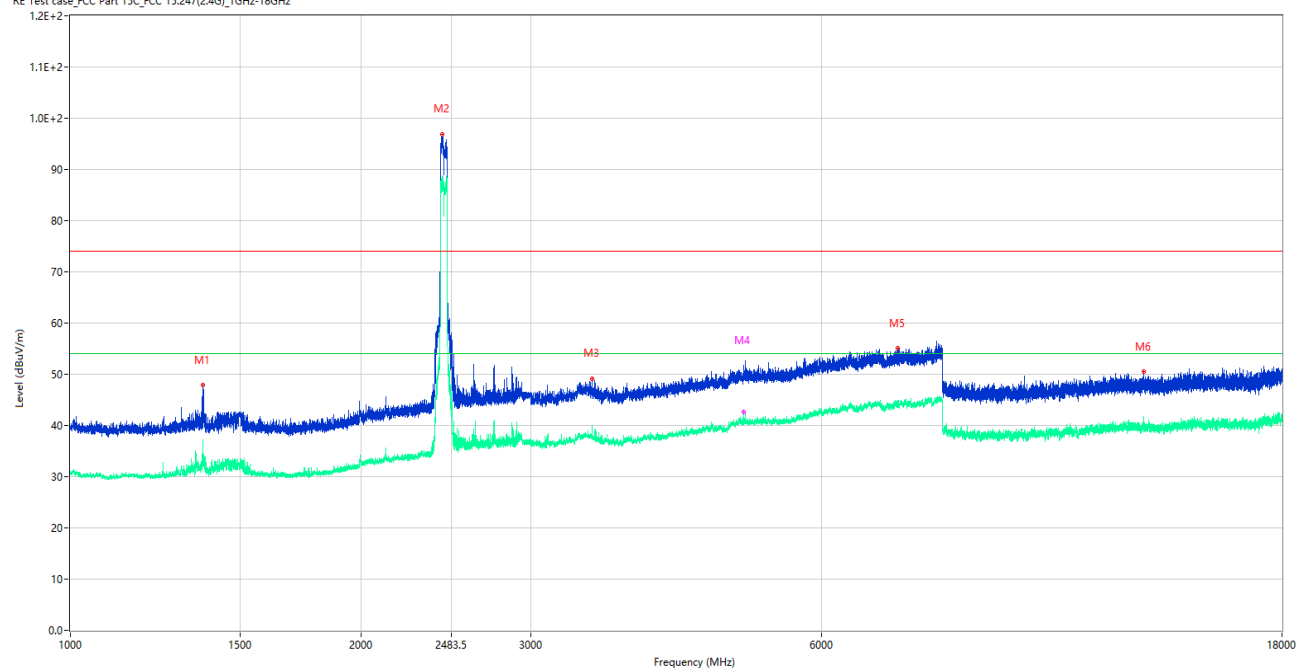
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1505.750	41.50	-16.00	74.0	32.50	Peak	169.00	150	Horizontal	Pass
1**	1505.750	30.24	-16.00	54.0	23.76	AV	169.00	150	Horizontal	Pass
2	2429.250	106.81	-12.25	74.0	-32.81	Peak	315.00	150	Horizontal	N/A
2**	2429.250	97.43	-12.25	54.0	-43.43	AV	315.00	150	Horizontal	N/A
3	3286.500	48.99	-6.80	74.0	25.01	Peak	157.00	150	Horizontal	Pass
3**	3286.500	37.63	-6.80	54.0	16.37	AV	157.00	150	Horizontal	Pass
4	4931.500	51.47	-2.12	74.0	22.53	Peak	13.00	150	Horizontal	Pass
4**	4931.500	40.75	-2.12	54.0	13.25	AV	13.00	150	Horizontal	Pass
5	7239.500	55.57	0.96	74.0	18.43	Peak	127.00	150	Horizontal	Pass
5**	7239.500	44.34	0.96	54.0	9.66	AV	127.00	150	Horizontal	Pass
6	12486.500	50.28	-2.50	74.0	23.72	Peak	11.00	150	Horizontal	Pass
6**	12486.500	40.26	-2.50	54.0	13.74	AV	11.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11n40 Middle Channel

RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1371.250	47.82	-15.95	74.0	26.18	Peak	120.00	150	Vertical	Pass
1**	1371.250	32.00	-15.95	54.0	22.00	AV	120.00	150	Vertical	Pass
2	2426.750	96.91	-12.29	74.0	-22.91	Peak	170.00	150	Vertical	N/A
2**	2426.750	88.71	-12.29	54.0	-34.71	AV	170.00	150	Vertical	N/A
3	3470.000	49.05	-5.53	74.0	24.95	Peak	84.00	150	Vertical	Pass
3**	3470.000	37.86	-5.53	54.0	16.14	AV	84.00	150	Vertical	Pass
4	4986.000	50.91	-2.50	74.0	23.09	Peak	144.00	150	Vertical	Pass
4**	4986.000	42.56	-2.50	54.0	11.44	AV	144.00	150	Vertical	Pass
5	7203.500	55.02	0.75	74.0	18.98	Peak	348.00	150	Vertical	Pass
5**	7203.500	44.26	0.75	54.0	9.74	AV	348.00	150	Vertical	Pass
6	12941.500	50.50	-2.05	74.0	23.50	Peak	205.00	150	Vertical	Pass
6**	12941.500	39.99	-2.05	54.0	14.01	AV	205.00	150	Vertical	Pass

A.7 Band Edge (Restricted-band band-edge)

Note 1: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

Note 2: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

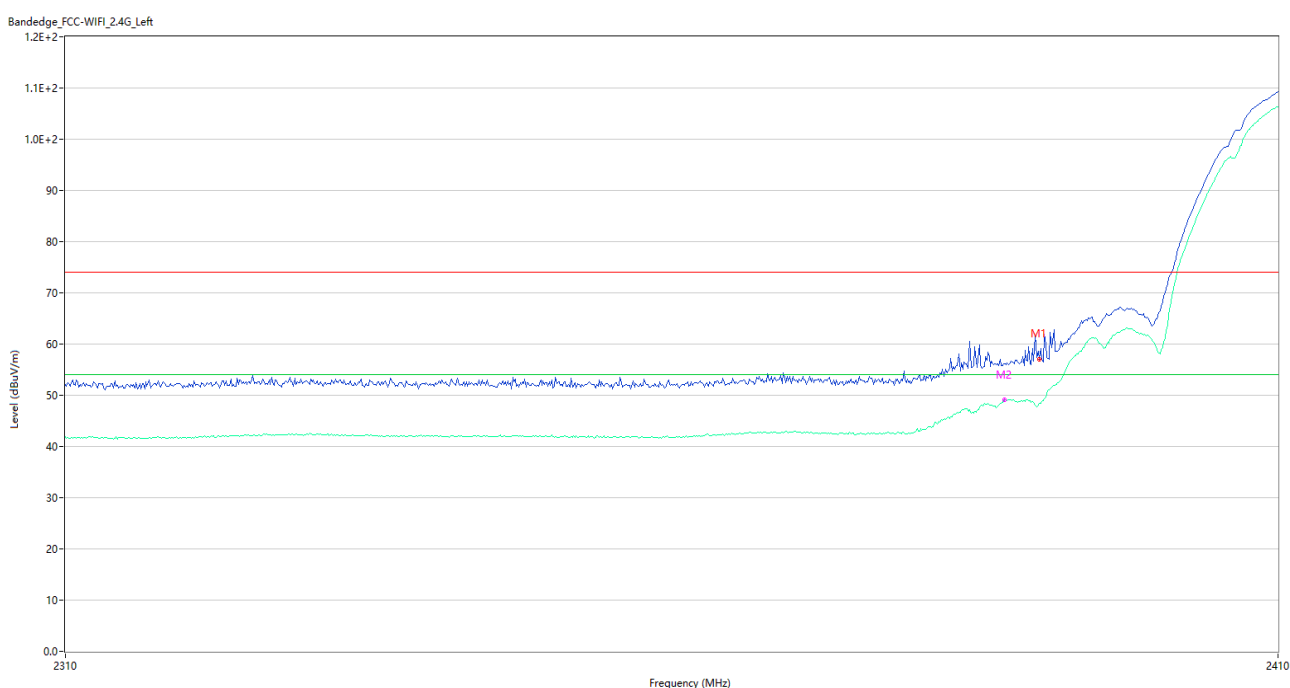
Note 3: According the ANSI C63.10-2020, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note 4: All the configurations were pre tested, only the worst configuration has been reported in this report.

Note 5: All antenna were pre tested, but only the worst case has been reported in this report.

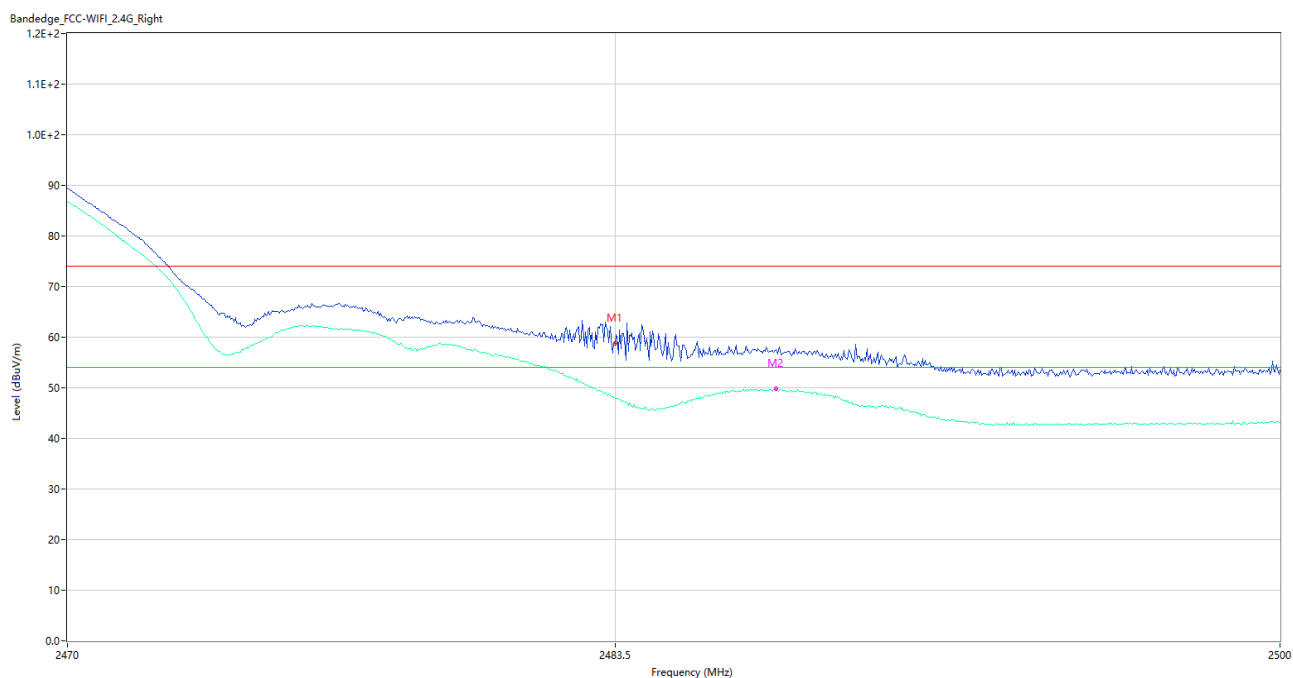
Test Data and Plots

802.11b LOW CHANNEL



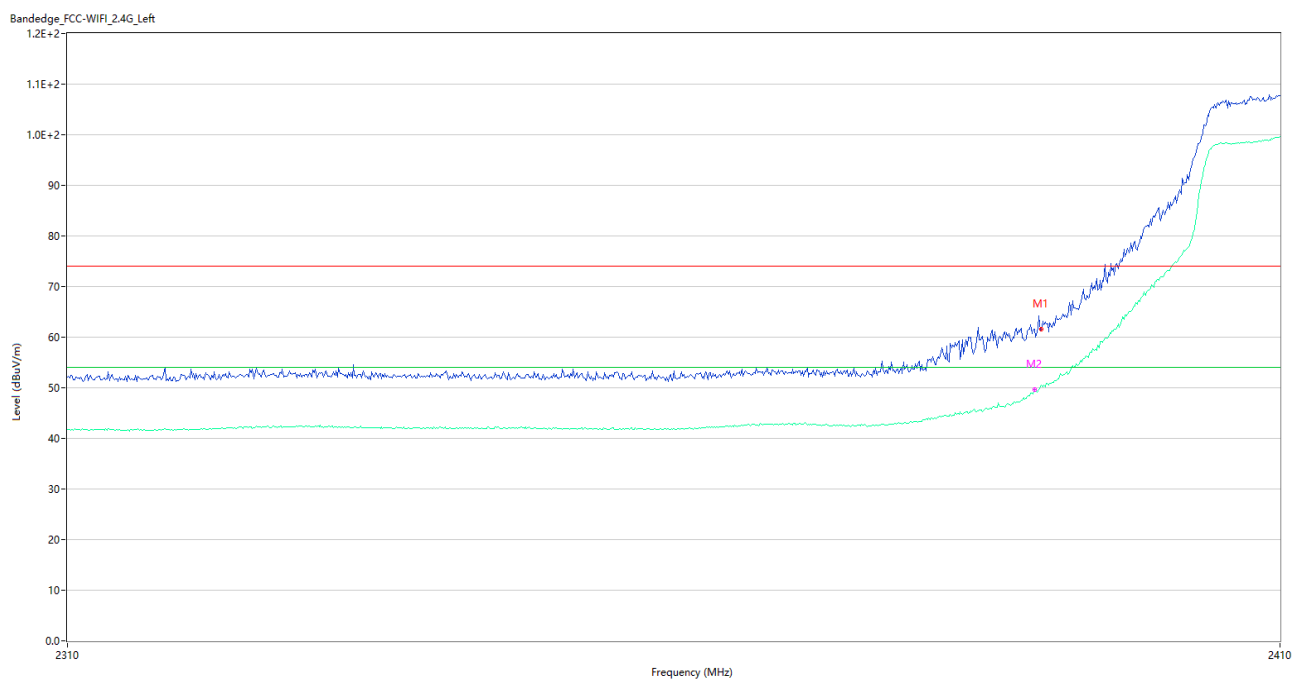
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	57.03	-4.87	74.0	16.97	Peak	320.94	150	Horizontal	Pass
1**	2390.000	48.46	-4.87	54.0	5.54	AV	320.94	150	Horizontal	Pass
2	2387.100	56.23	-4.71	74.0	17.77	Peak	236.00	150	Horizontal	Pass
2**	2387.100	49.15	-4.71	54.0	4.85	AV	236.00	150	Horizontal	Pass

802.11b HIGH CHANNEL



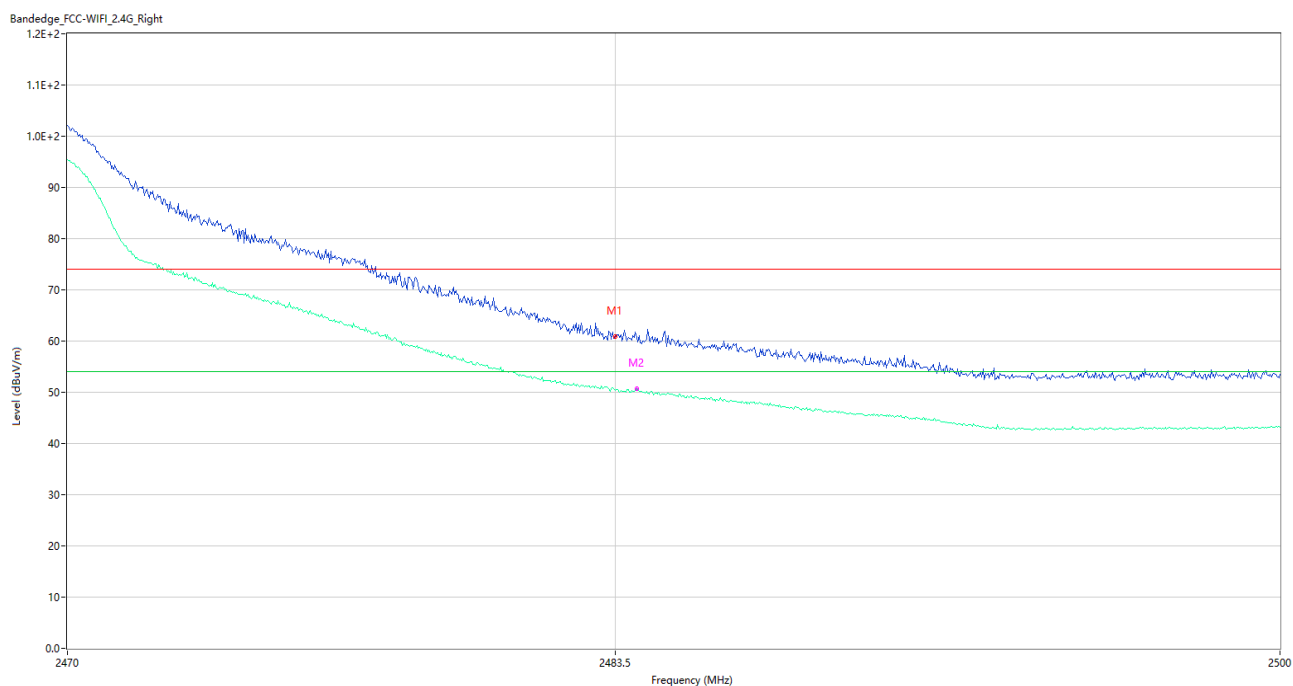
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	58.75	-3.78	74.0	15.25	Peak	360.00	150	Horizontal	Pass
1**	2483.500	47.82	-3.78	54.0	6.18	AV	360.00	150	Horizontal	Pass
2	2487.490	57.49	-3.80	74.0	16.51	Peak	250.00	150	Horizontal	Pass
2**	2487.490	49.79	-3.80	54.0	4.21	AV	250.00	150	Horizontal	Pass

802.11g LOW CHANNEL



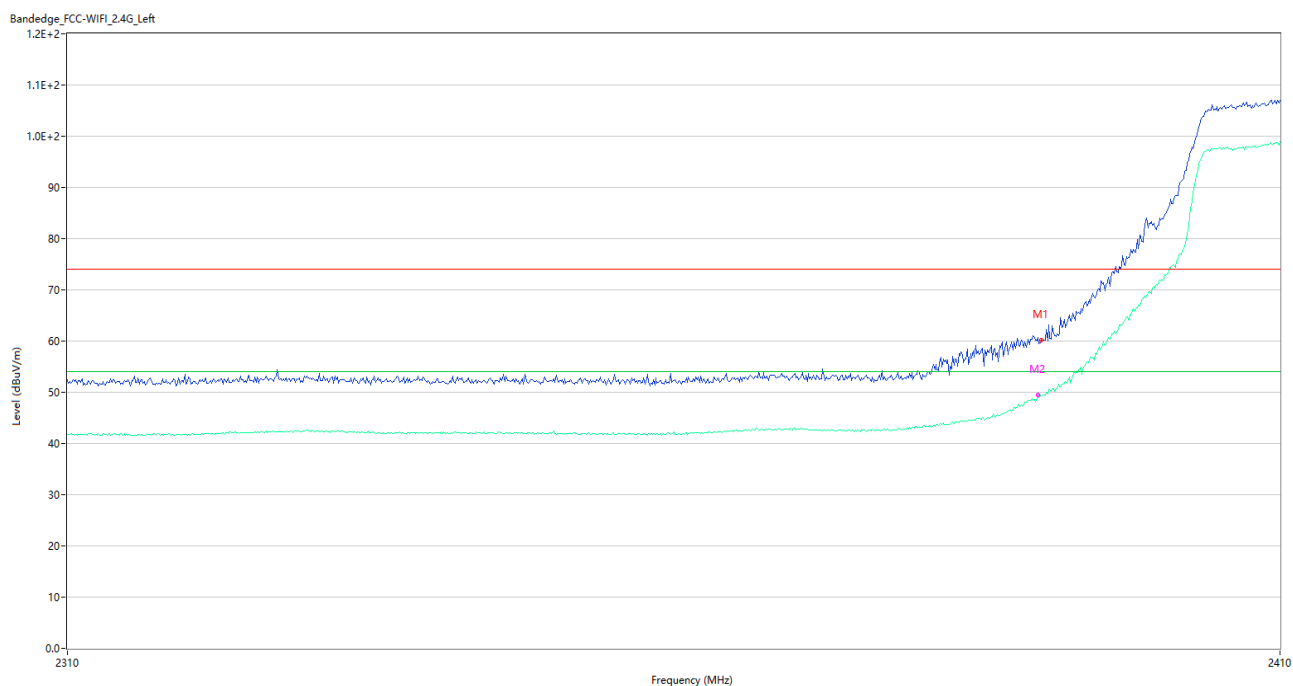
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	61.64	-4.87	74.0	12.36	Peak	320.00	150	Horizontal	Pass
1**	2390.000	50.53	-4.87	54.0	3.47	AV	320.00	150	Horizontal	Pass
2	2389.400	61.57	-4.84	74.0	12.43	Peak	240.00	150	Horizontal	Pass
2**	2389.400	49.65	-4.84	54.0	4.35	AV	240.00	150	Horizontal	Pass

802.11g HIGH CHANNEL



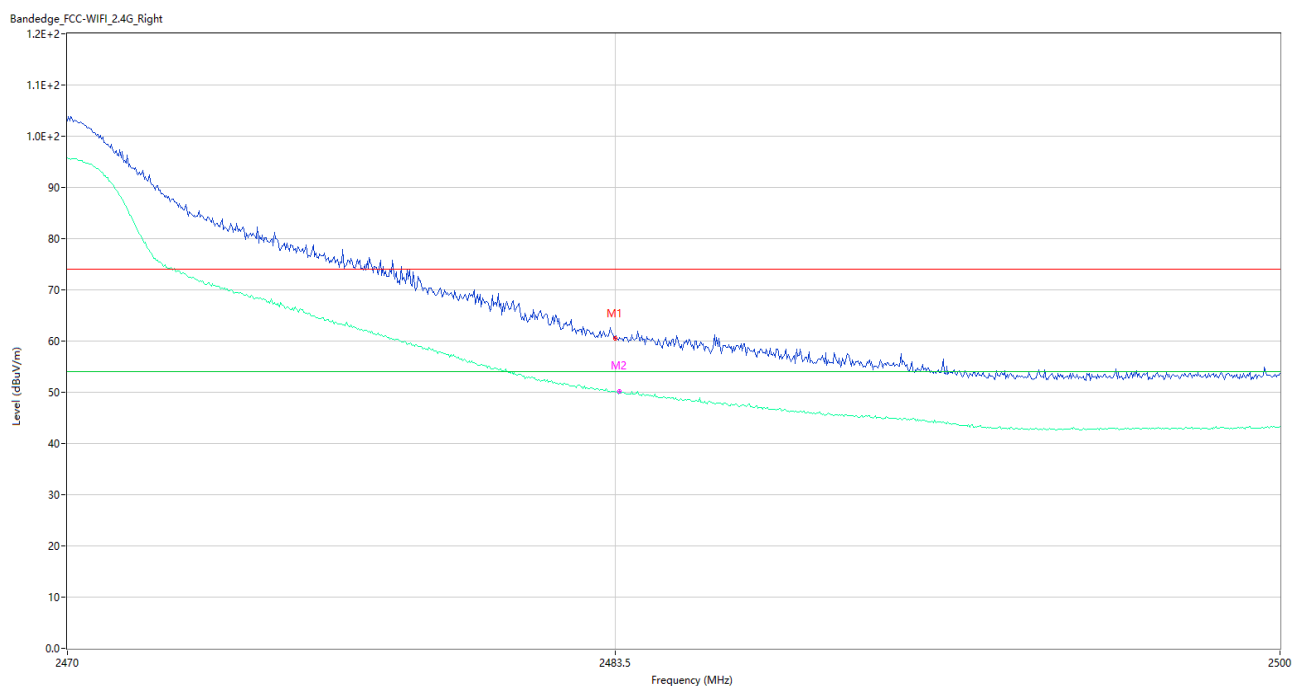
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	60.92	-3.78	74.0	13.08	Peak	326.00	150	Horizontal	Pass
1**	2483.500	50.36	-3.78	54.0	3.64	AV	326.00	150	Horizontal	Pass
2	2484.040	60.70	-3.78	74.0	13.30	Peak	298.00	150	Horizontal	Pass
2**	2484.040	50.70	-3.78	54.0	3.30	AV	298.00	150	Horizontal	Pass

802.11n20 LOW CHANNEL



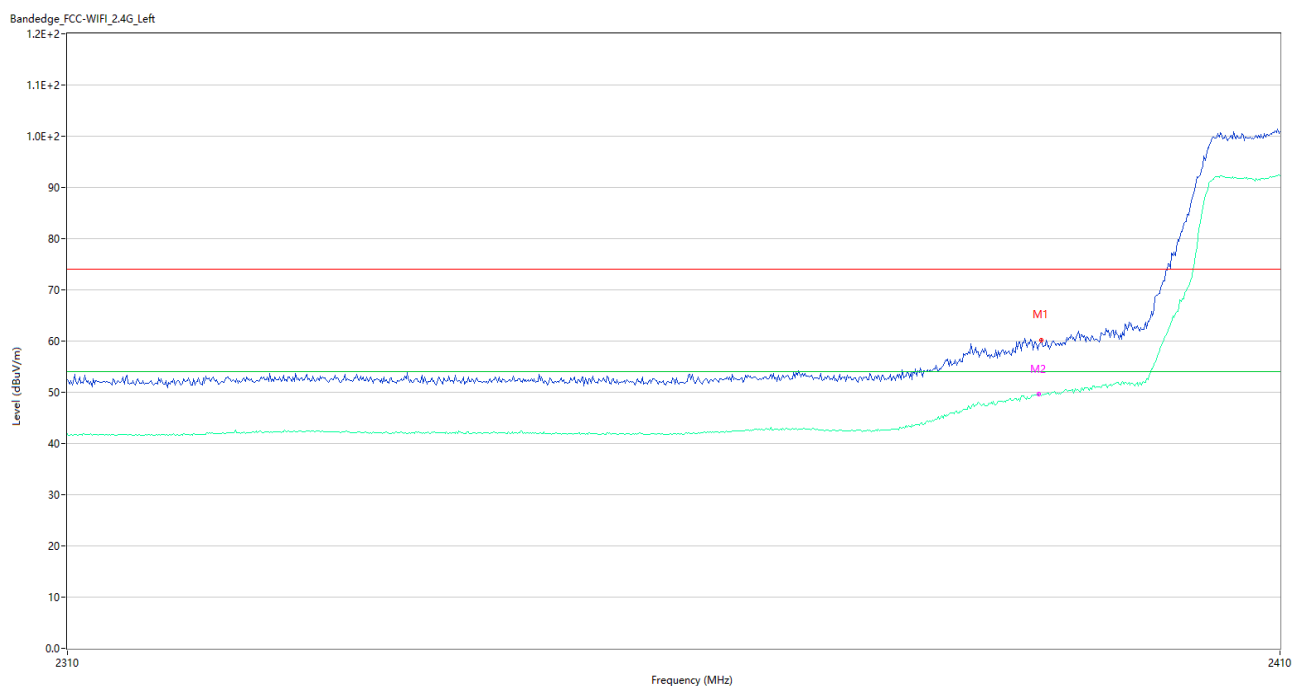
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	60.24	-4.87	74.0	13.76	Peak	236.09	150	Horizontal	Pass
1**	2390.000	49.10	-4.87	54.0	4.90	AV	236.09	150	Horizontal	Pass
2	2389.700	60.68	-4.86	74.0	13.32	Peak	236.00	150	Horizontal	Pass
2**	2389.700	49.52	-4.86	54.0	4.48	AV	236.00	150	Horizontal	Pass

802.11n20 HIGH CHANNEL



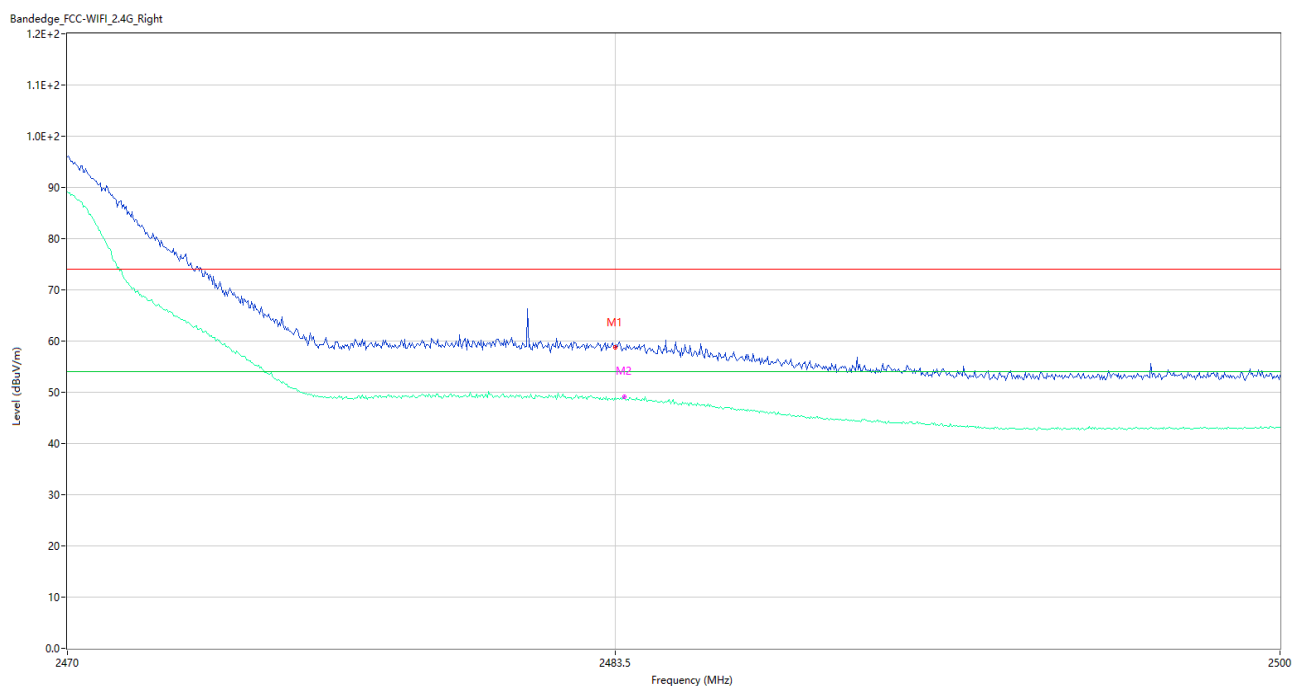
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	60.45	-3.78	74.0	13.55	Peak	236.00	150	Horizontal	Pass
1**	2483.500	50.06	-3.78	54.0	3.94	AV	236.00	150	Horizontal	Pass
2	2483.620	60.74	-3.78	74.0	13.26	Peak	332.00	150	Horizontal	Pass
2**	2483.620	50.22	-3.78	54.0	3.78	AV	332.00	150	Horizontal	Pass

802.11n40 LOW CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	60.20	-4.87	74.0	13.80	Peak	236.00	150	Horizontal	Pass
1**	2390.000	49.26	-4.87	54.0	4.74	AV	236.00	150	Horizontal	Pass
2	2389.800	59.22	-4.86	74.0	14.78	Peak	318.00	150	Horizontal	Pass
2**	2389.800	49.64	-4.86	54.0	4.36	AV	318.00	150	Horizontal	Pass

802.11n40 HIGH CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	58.82	-3.78	74.0	15.18	Peak	235.00	150	Horizontal	Pass
1**	2483.500	48.97	-3.78	54.0	5.03	AV	235.00	150	Horizontal	Pass
2	2483.740	58.66	-3.78	74.0	15.34	Peak	235.00	150	Horizontal	Pass
2**	2483.740	49.20	-3.78	54.0	4.80	AV	235.00	150	Horizontal	Pass

A.8 Power Spectral Density (PSD)

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

Test Data

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-2.43	8
Middle	-1.37	8
High	-2.78	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-11.46	8
Middle	-8.37	8
High	-10.75	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-11.44	8
Middle	-7.76	8
High	-11.63	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-15.89	8
Middle	-15.37	8
High	-16.98	8

Test Plots

802.11b LOW CHANNEL



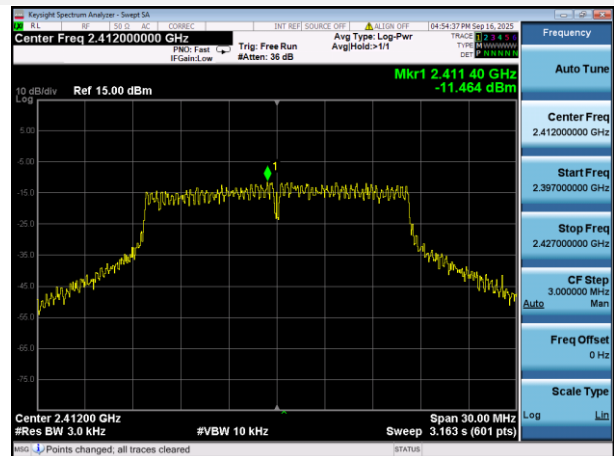
802.11b MIDDLE CHANNEL



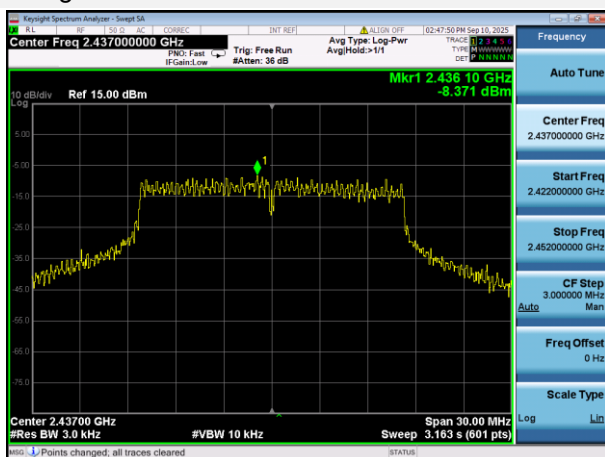
802.11b HIGH CHANNEL



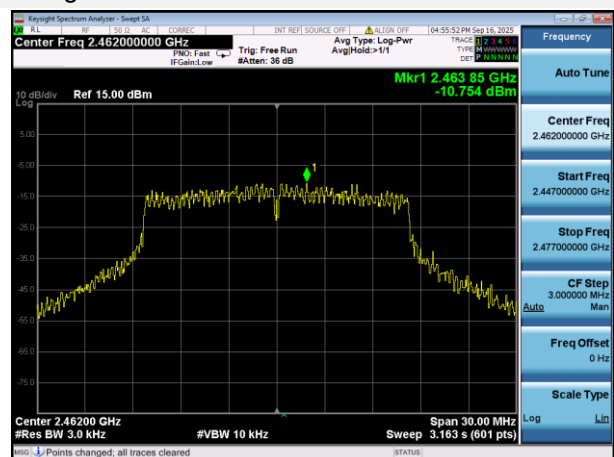
802.11g LOW CHANNEL



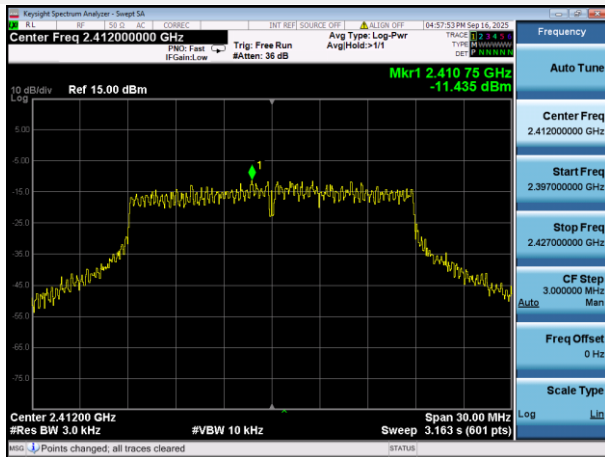
802.11g MIDDLE CHANNEL



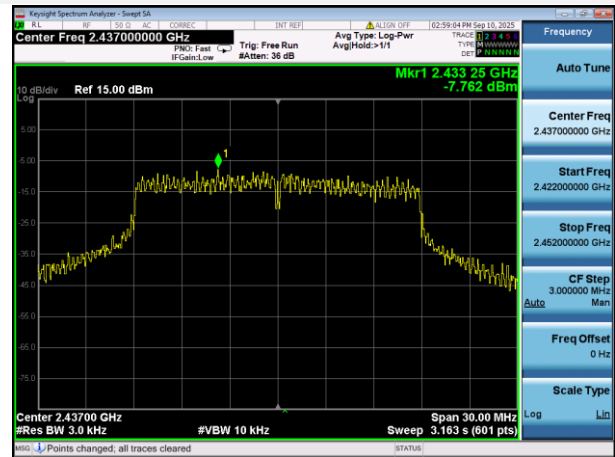
802.11g HIGH CHANNEL



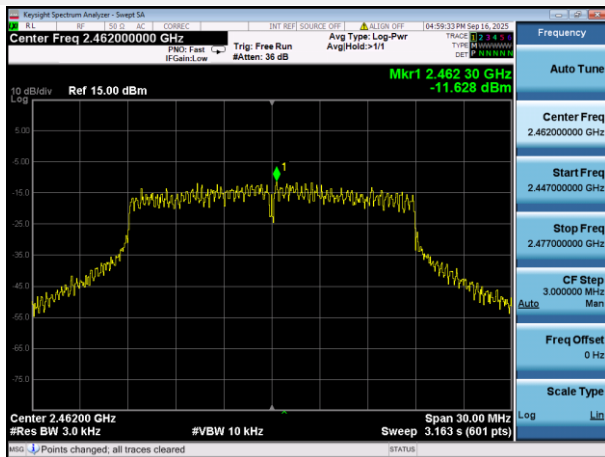
802.11n-20 MHz LOW CHANNEL



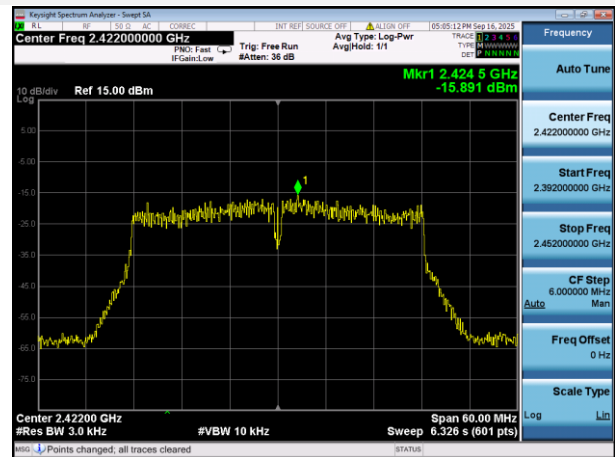
802.11 n-20 MHz MIDDLE CHANNEL



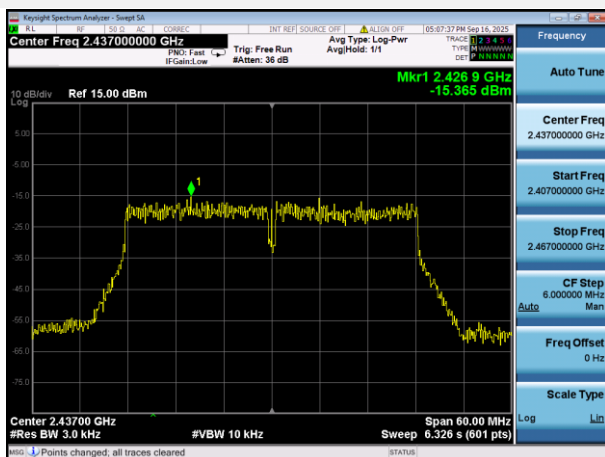
802.11n-20 MHz HIGH CHANNEL



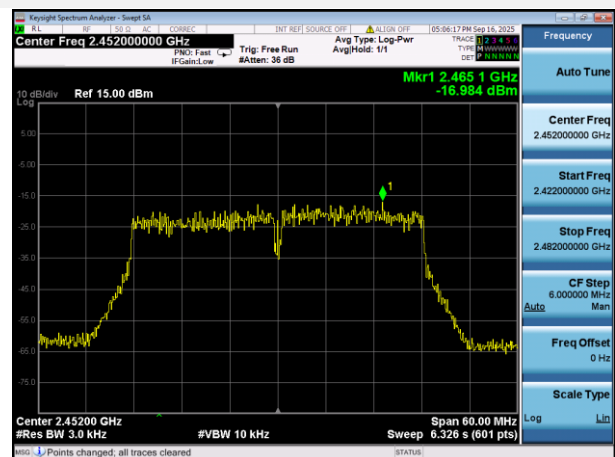
802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



802.11n-40 MHz HIGH CHANNEL



ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SH2591009-AR-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SH2591009-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SH2591009-AI.PDF”.

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--END OF REPORT--