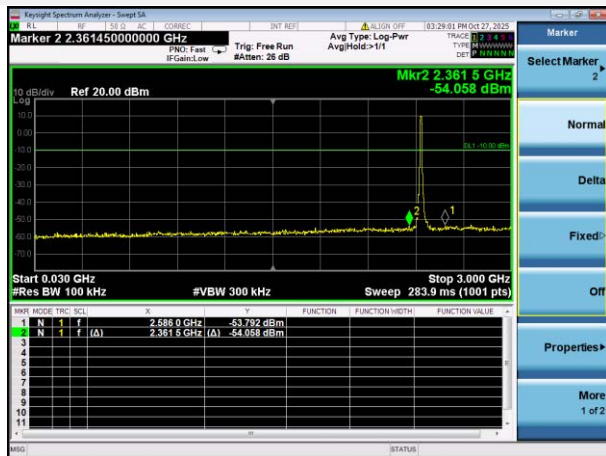
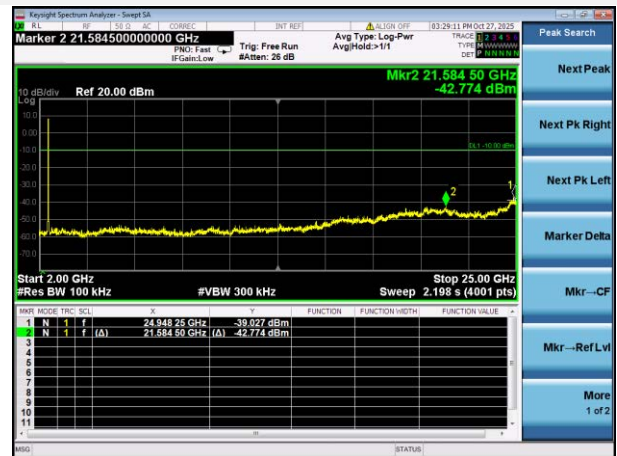


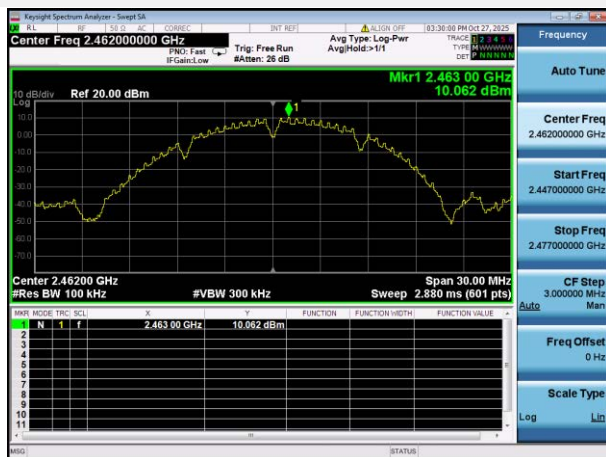
802.11b MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



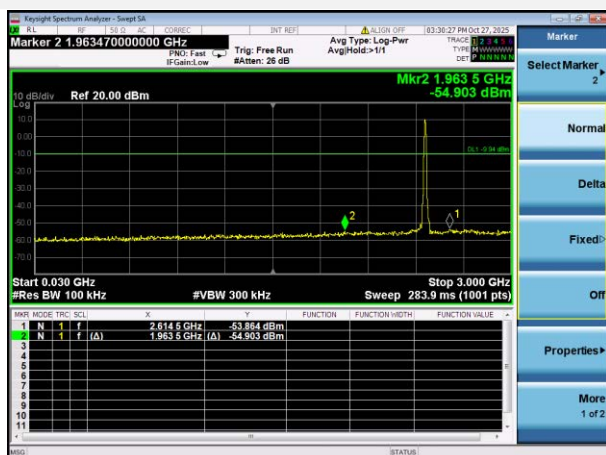
802.11b MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



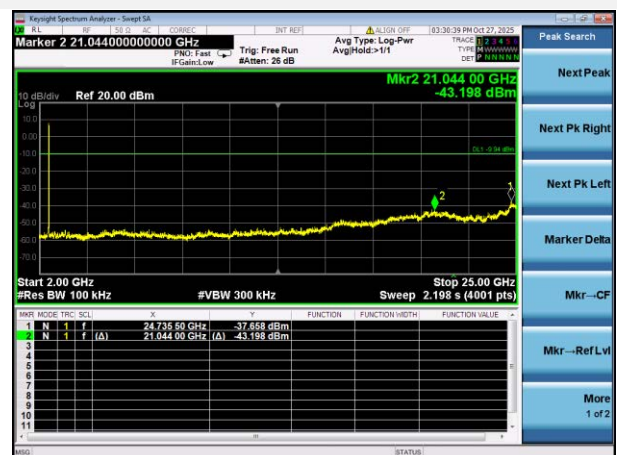
802.11b HIGH CHANNEL CARRIER LEVEL



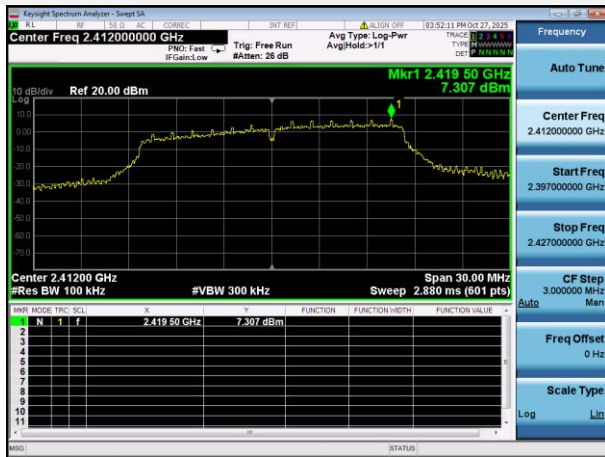
802.11b HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



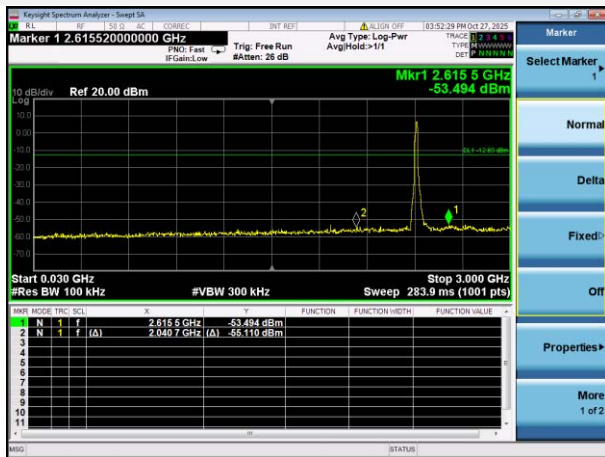
802.11b HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



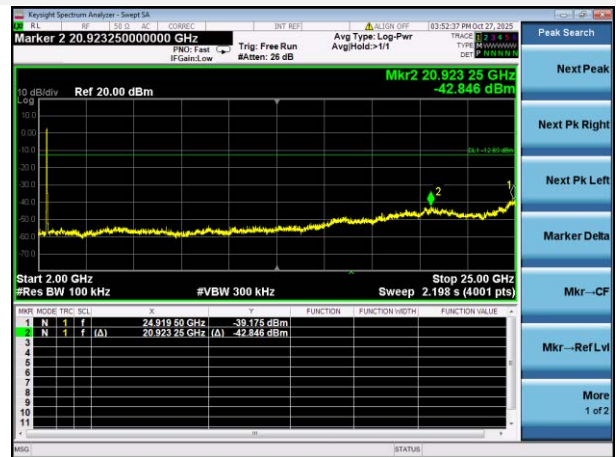
802.11g LOW CHANNEL CARRIER LEVEL



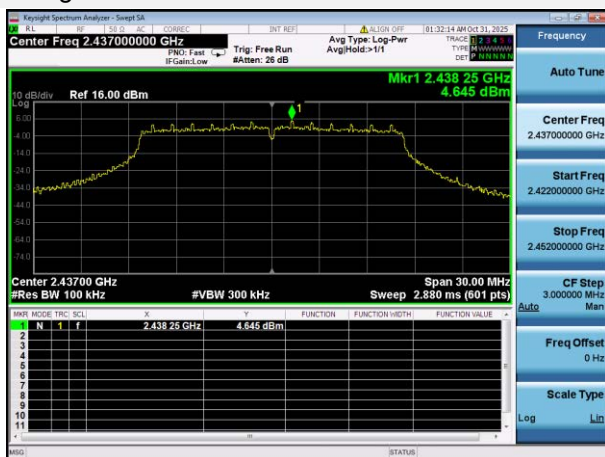
802.11g LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



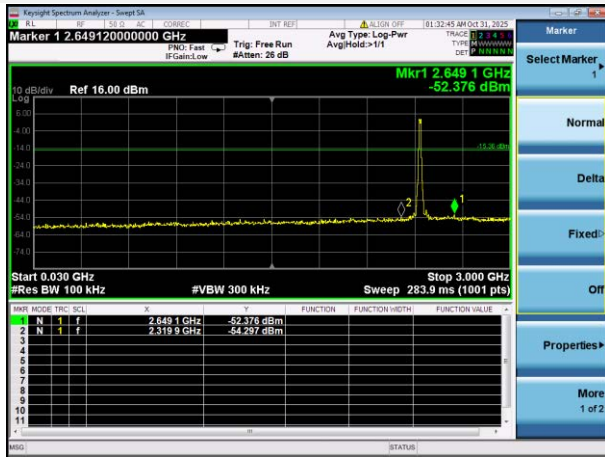
802.11g LOW CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



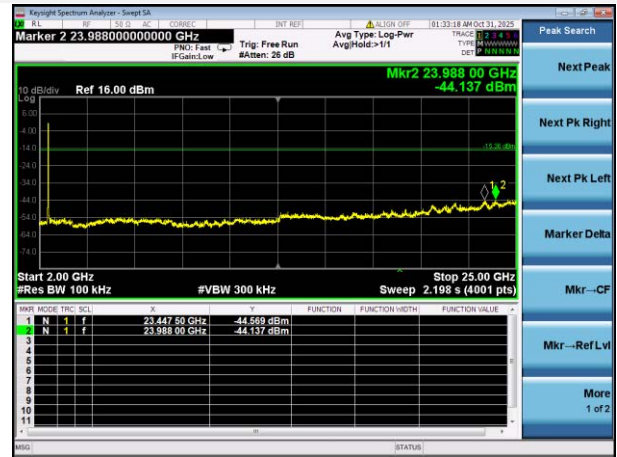
802.11g MIDDLE CHANNEL CARRIER LEVEL



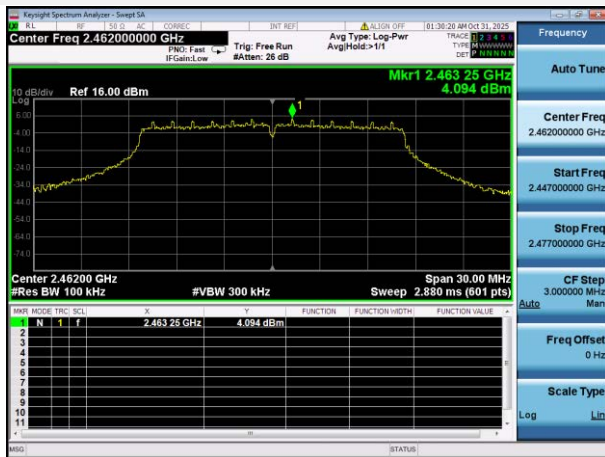
802.11g MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



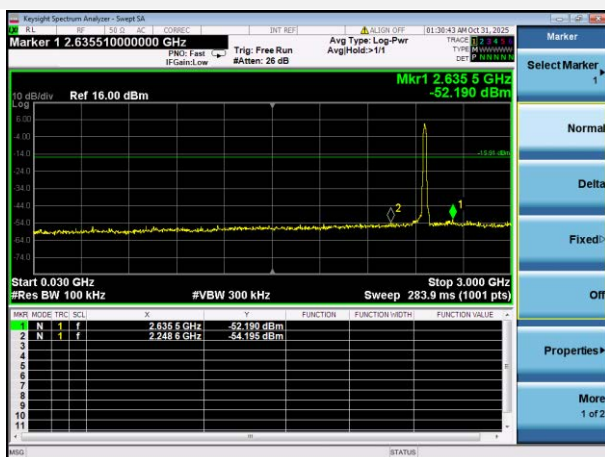
802.11g MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



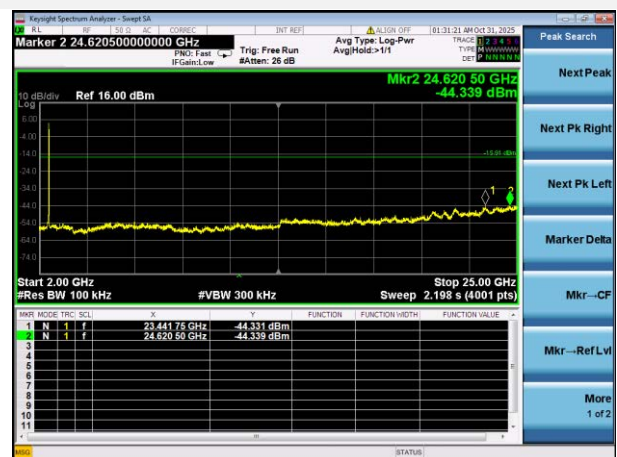
802.11g HIGH CHANNEL CARRIER LEVEL



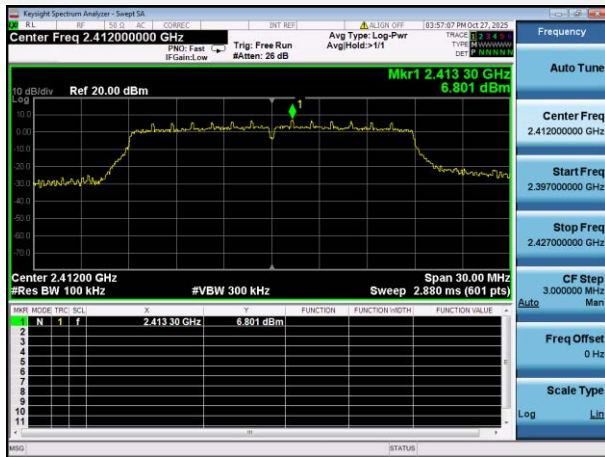
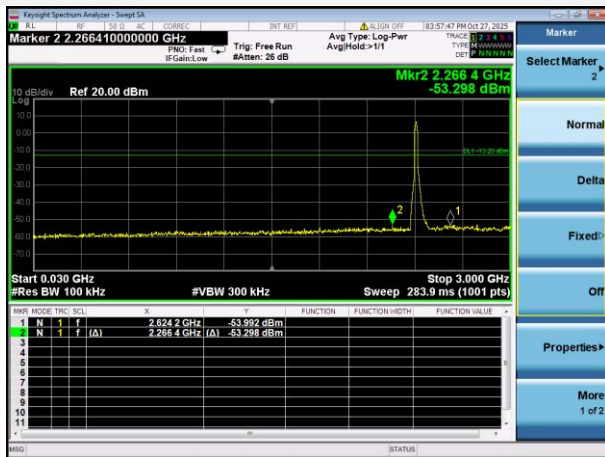
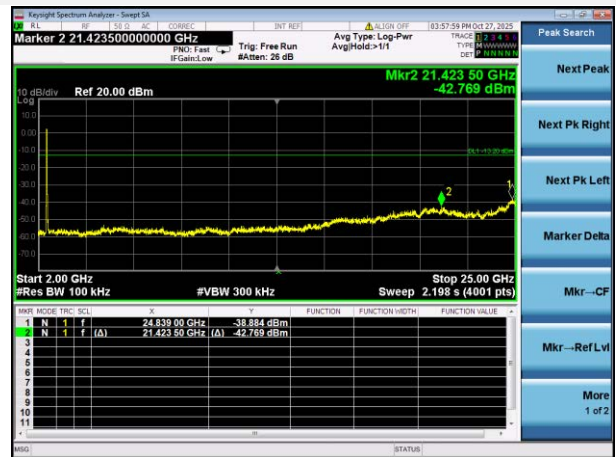
802.11g HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



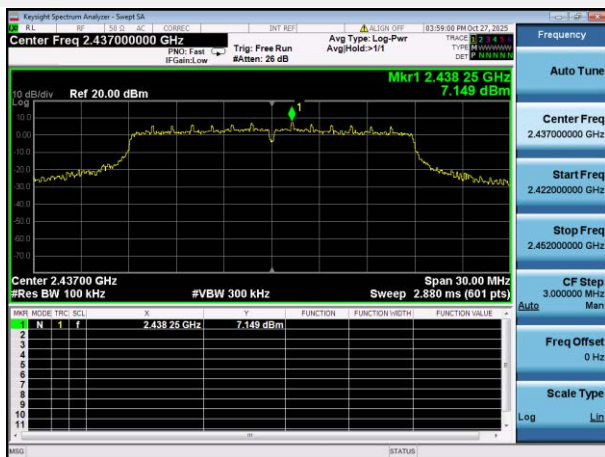
802.11g HIGH CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



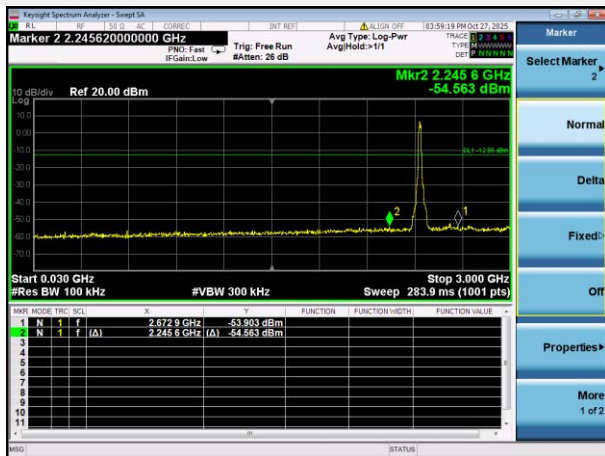
802.11n-20 MHz LOW CHANNEL CARRIER LEVEL

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

802.11n-20 MHz MIDDLE CHANNEL CARRIER LEVEL



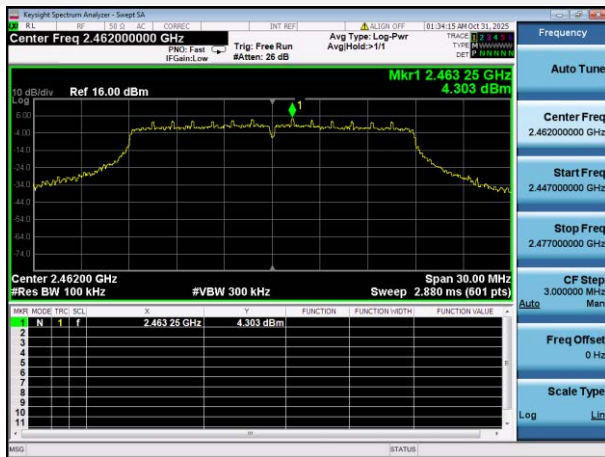
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



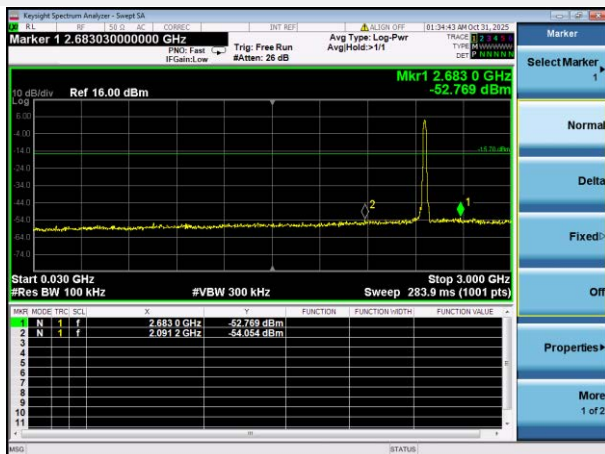
802.11n-20 MHz MIDDLE CHANNEL, SPURIOUS 2 GHz ~ 25 GHz



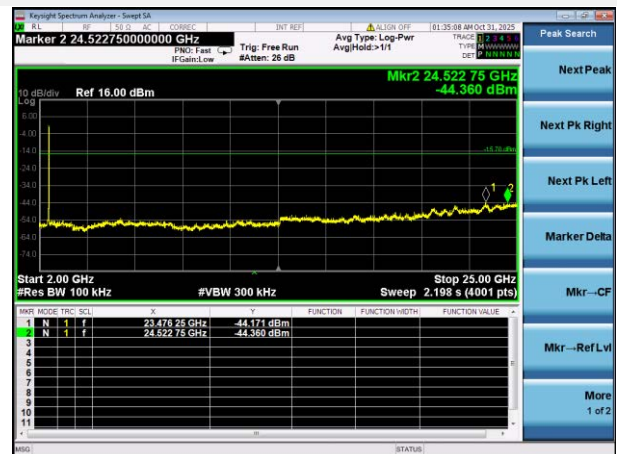
802.11n-20 MHz HIGH CHANNEL CARRIER LEVEL



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



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



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

Main Antenna

802.11b Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-38.92	8.18	-11.82	Pass
High	-50.91	7.53	-12.47	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-42.04	1.28	-18.72	Pass
High	-32.66	5.05	-14.95	Pass

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-29.94	5.32	-14.68	Pass
High	-36.06	4.64	-15.36	Pass

Aux. Antenna

802.11b Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-35.32	10.49	-9.51	Pass
High	-49.57	10.06	-9.94	Pass

802.11g Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-27.23	7.31	-12.69	Pass
High	-46.53	4.09	-15.91	Pass

802.11n-20 MHz Mode:

Channel	Measured Max. Band Edge Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-25.52	6.80	-13.20	Pass
High	-44.48	4.30	-15.70	Pass

Test Plots

Main Antenna

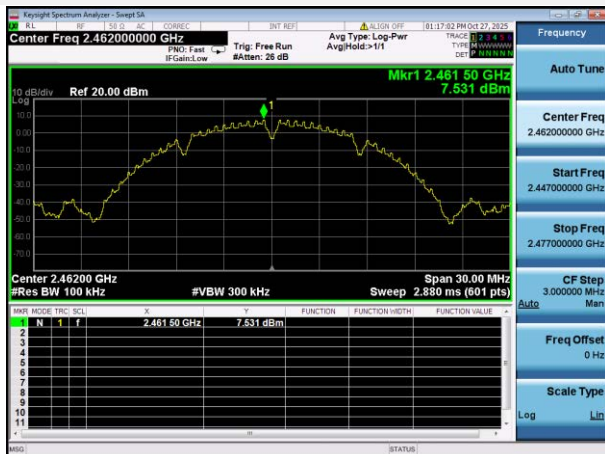
802.11b LOW CHANNEL, CARRIER LEVEL



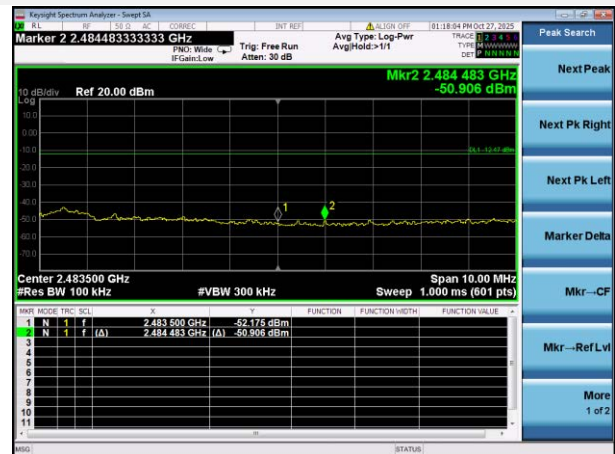
802.11b LOW CHANNEL, BAND EDGE



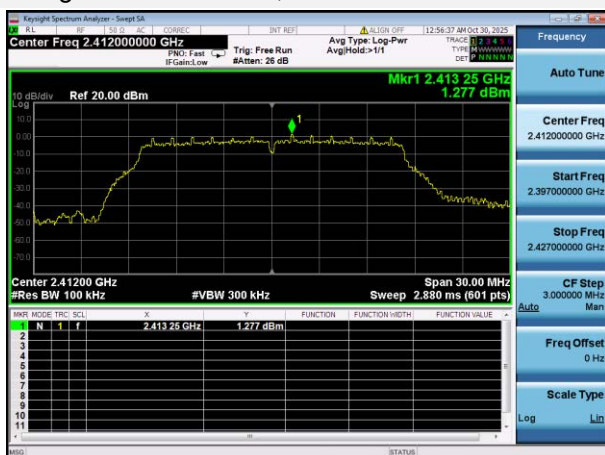
802.11b HIGH CHANNEL, CARRIER LEVEL



802.11b HIGH CHANNEL, BAND EDGE



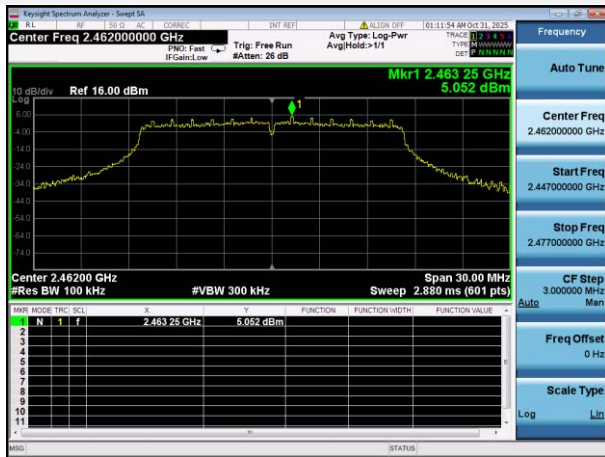
802.11g LOW CHANNEL, CARRIER LEVEL



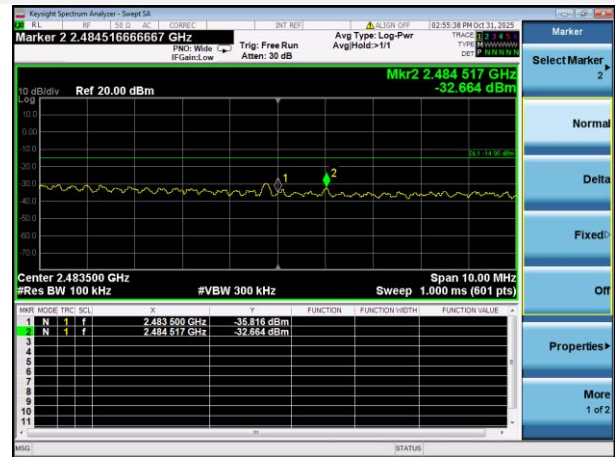
802.11g LOW CHANNEL, BAND EDGE



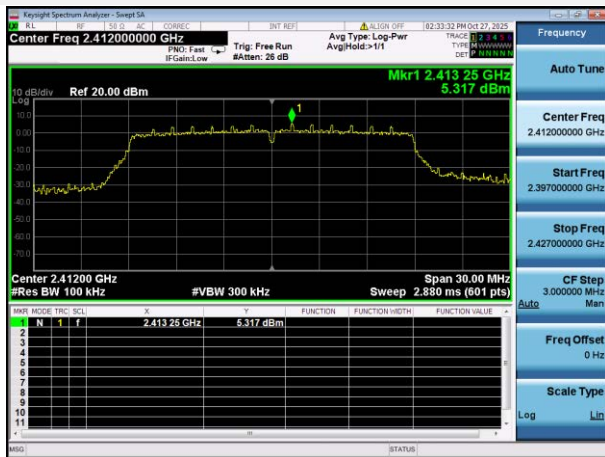
802.11g HIGH CHANNEL, CARRIER LEVEL



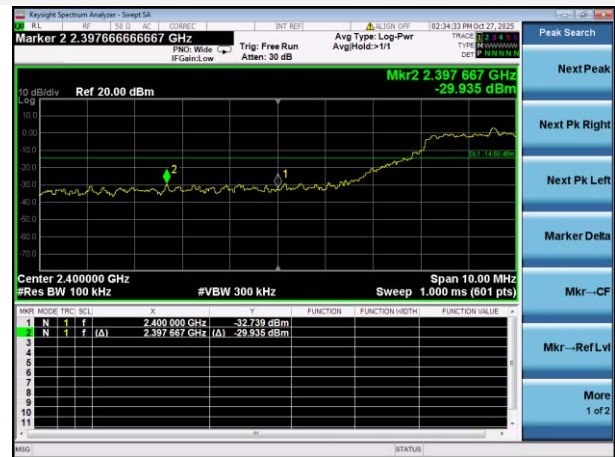
802.11g HIGH CHANNEL, BAND EDGE



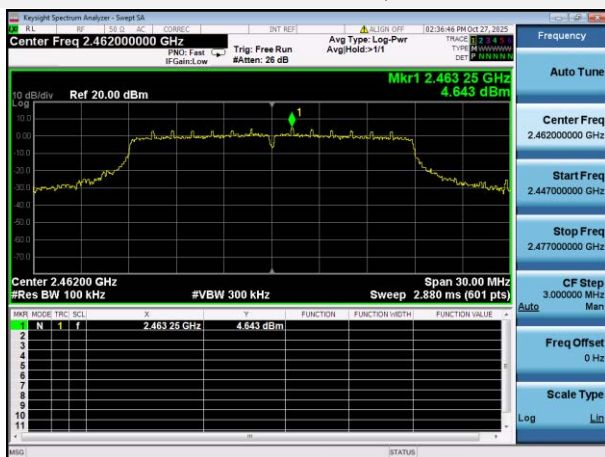
802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



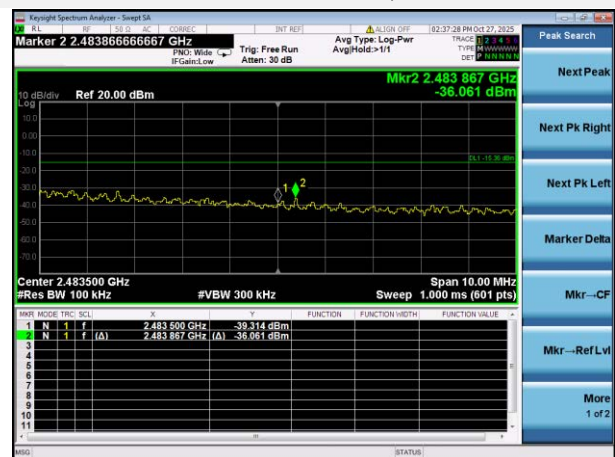
802.11n-20 MHz LOW CHANNEL, BAND EDGE



802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-20 MHz HIGH CHANNEL, BAND EDGE



Aux. Antenna

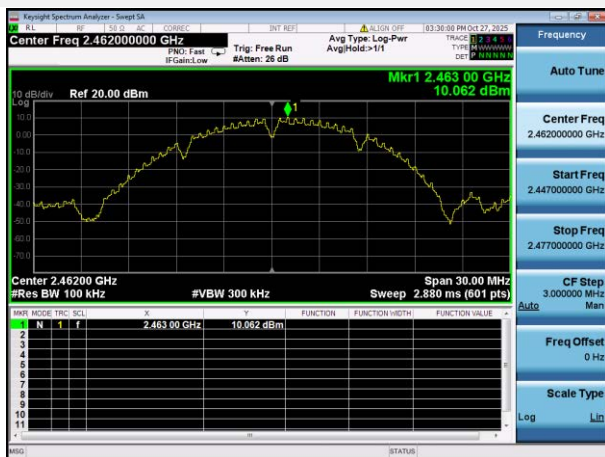
802.11b LOW CHANNEL, CARRIER LEVEL



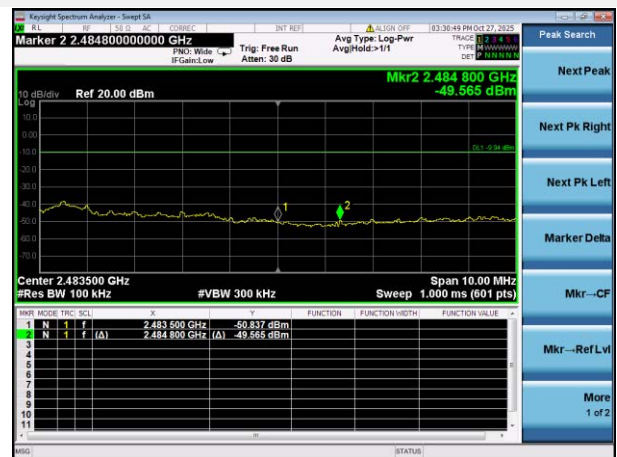
802.11b LOW CHANNEL, BAND EDGE



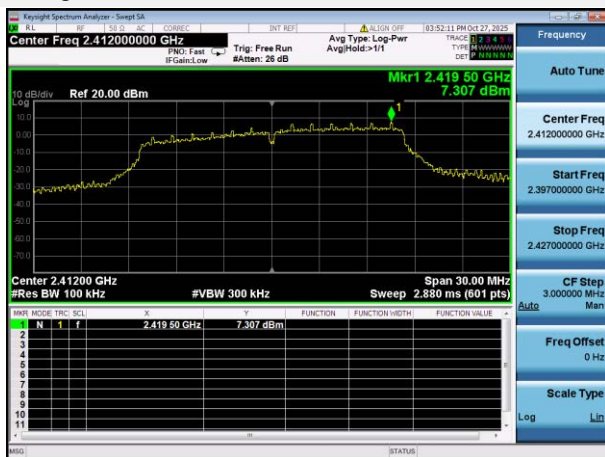
802.11b HIGH CHANNEL, CARRIER LEVEL



802.11b HIGH CHANNEL, BAND EDGE



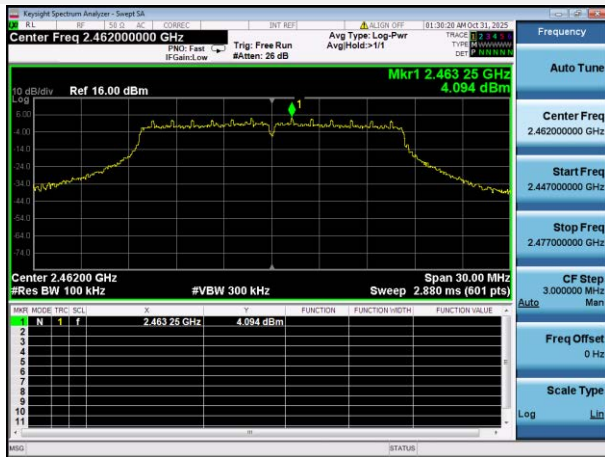
802.11g LOW CHANNEL, CARRIER LEVEL



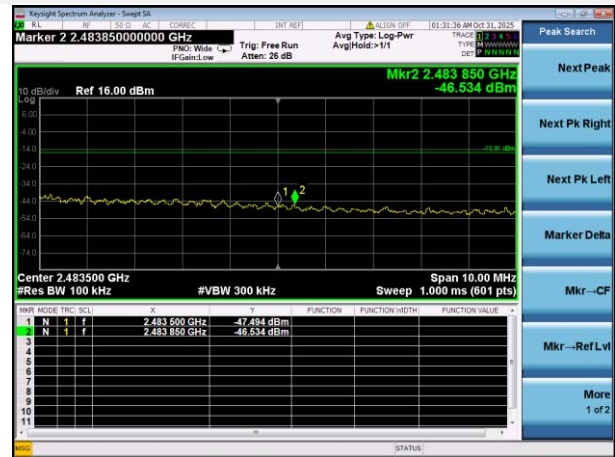
802.11g LOW CHANNEL, BAND EDGE



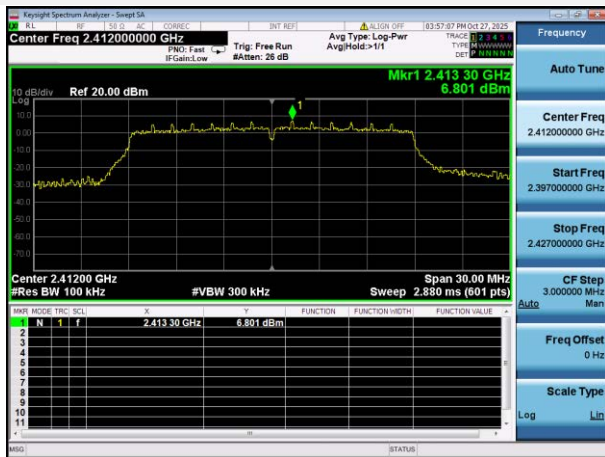
802.11g HIGH CHANNEL, CARRIER LEVEL



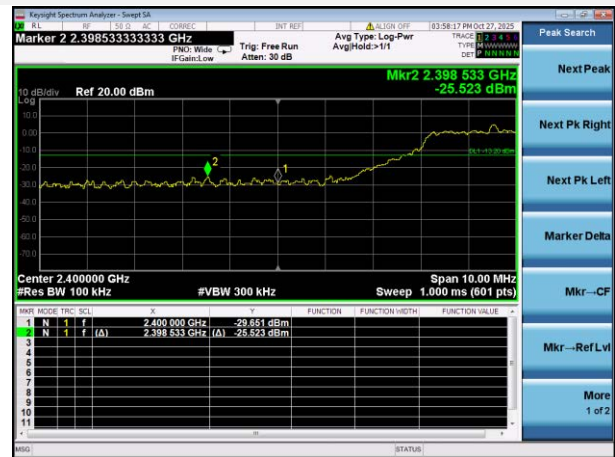
802.11g HIGH CHANNEL, BAND EDGE



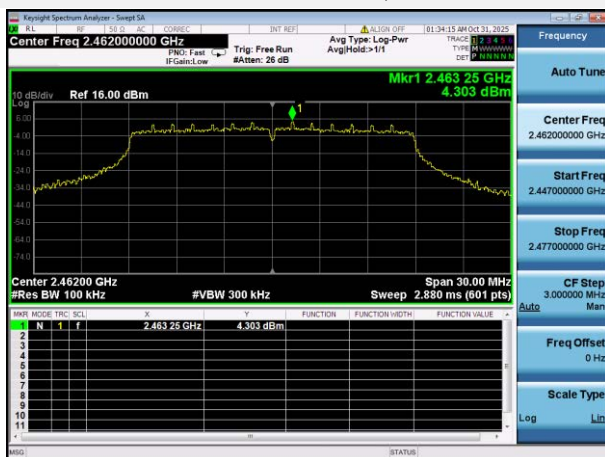
802.11n-20 MHz LOW CHANNEL, CARRIER LEVEL



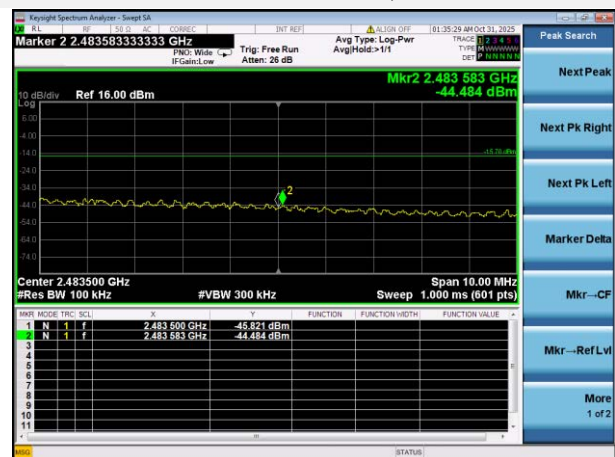
802.11n-20 MHz LOW CHANNEL, BAND EDGE



802.11n-20 MHz HIGH CHANNEL, CARRIER LEVEL



802.11n-20 MHz HIGH CHANNEL, BAND EDGE



A.5 Conducted Emission

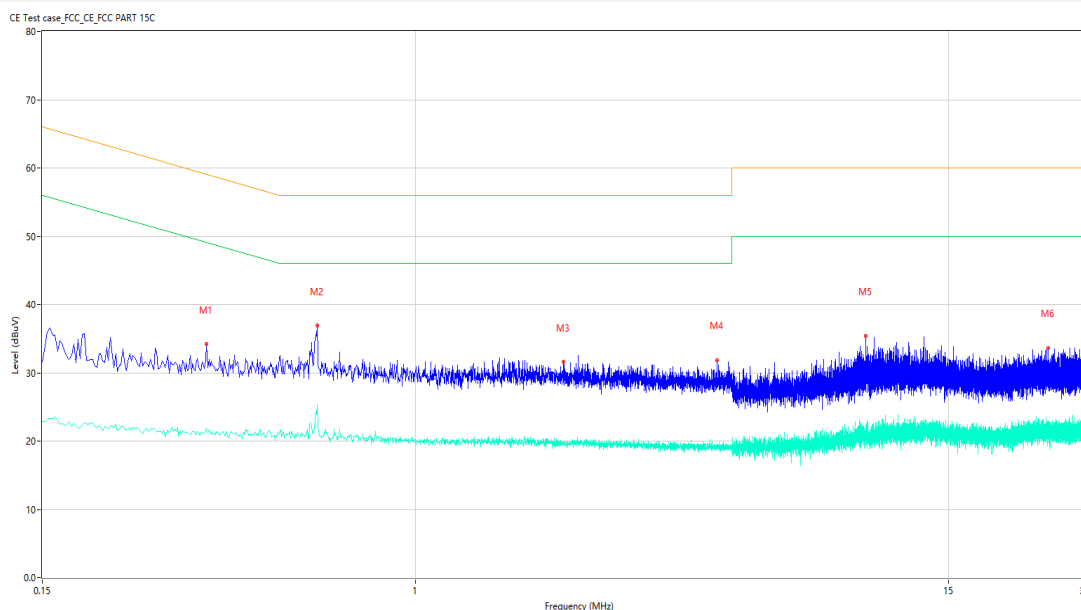
Note 1: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

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)

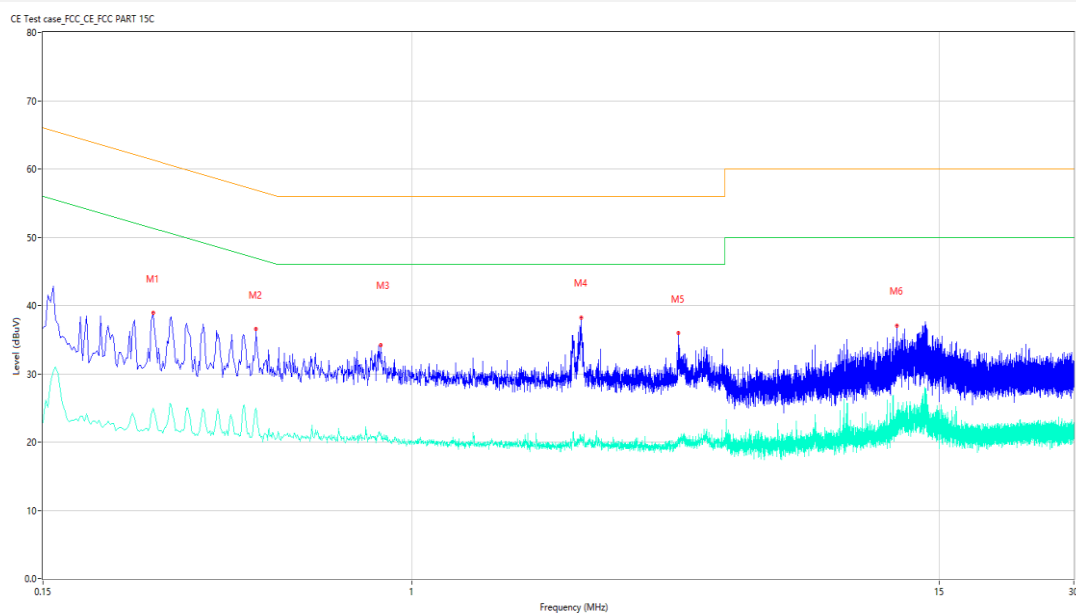
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin(dB)	Detector	Line	Verdict
1	0.346	34.21	10.13	59.06	24.85	Peak	L	Pass
1**	0.346	21.92	10.13	49.06	27.14	AV	L	Pass
2	0.606	36.91	10.19	56.00	19.09	Peak	L	Pass
2**	0.606	25.29	10.19	46.00	20.71	AV	L	Pass
3	2.124	31.59	10.36	56.00	24.41	Peak	L	Pass
3**	2.124	19.79	10.36	46.00	26.21	AV	L	Pass
4	4.632	31.88	10.43	56.00	24.12	Peak	L	Pass
4**	4.632	19.19	10.43	46.00	26.81	AV	L	Pass
5	9.860	35.38	10.93	60.00	24.62	Peak	L	Pass
5**	9.860	21.57	10.93	50.00	28.43	AV	L	Pass
6	24.952	33.64	11.70	60.00	26.36	Peak	L	Pass
6**	24.952	21.98	11.70	50.00	28.02	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin(dB)	Detector	Line	Verdict
1	0.264	38.96	10.15	61.30	22.34	Peak	N	Pass
1**	0.264	24.99	10.15	51.30	26.31	AV	N	Pass
2	0.448	36.55	10.17	56.91	20.36	Peak	N	Pass
2**	0.448	24.98	10.17	46.91	21.93	AV	N	Pass
3	0.852	34.24	10.23	56.00	21.76	Peak	N	Pass
3**	0.852	21.32	10.23	46.00	24.68	AV	N	Pass
4	2.382	38.26	10.27	56.00	17.74	Peak	N	Pass
4**	2.382	20.35	10.27	46.00	25.65	AV	N	Pass
5	3.930	35.98	10.37	56.00	20.02	Peak	N	Pass
5**	3.930	20.25	10.37	46.00	25.75	AV	N	Pass
6	12.098	37.02	11.02	60.00	22.98	Peak	N	Pass
6**	12.098	24.09	11.02	50.00	25.91	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.

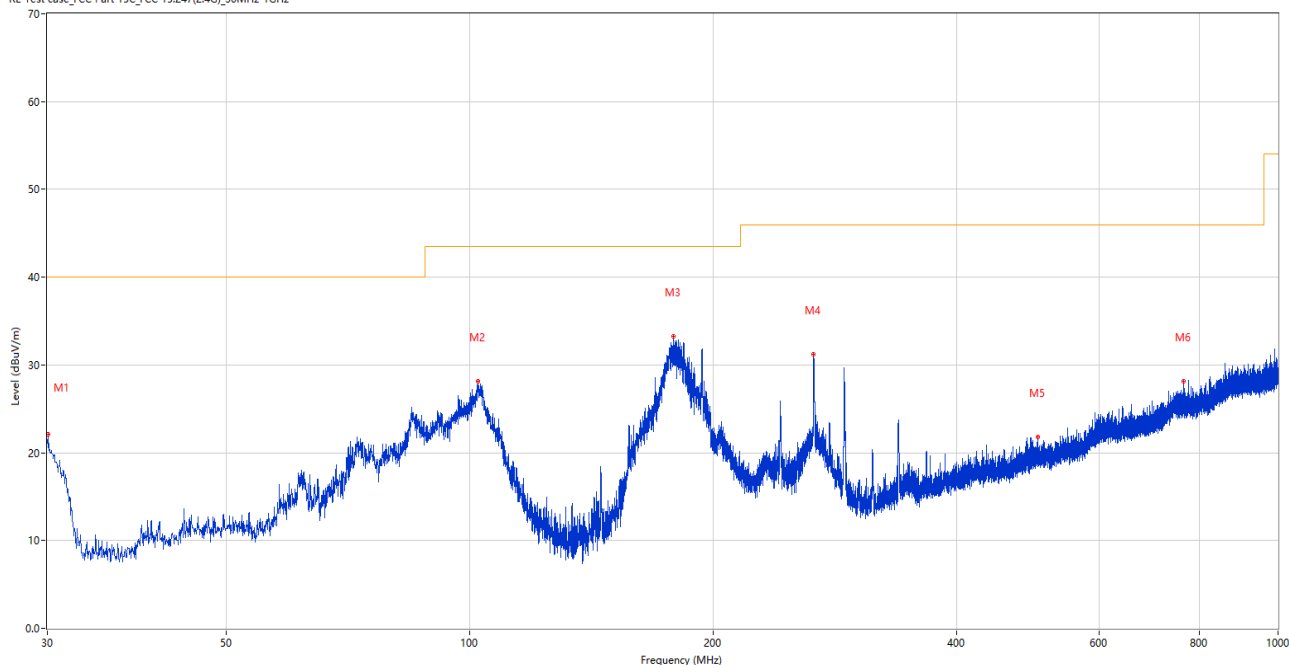
Note 3: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

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

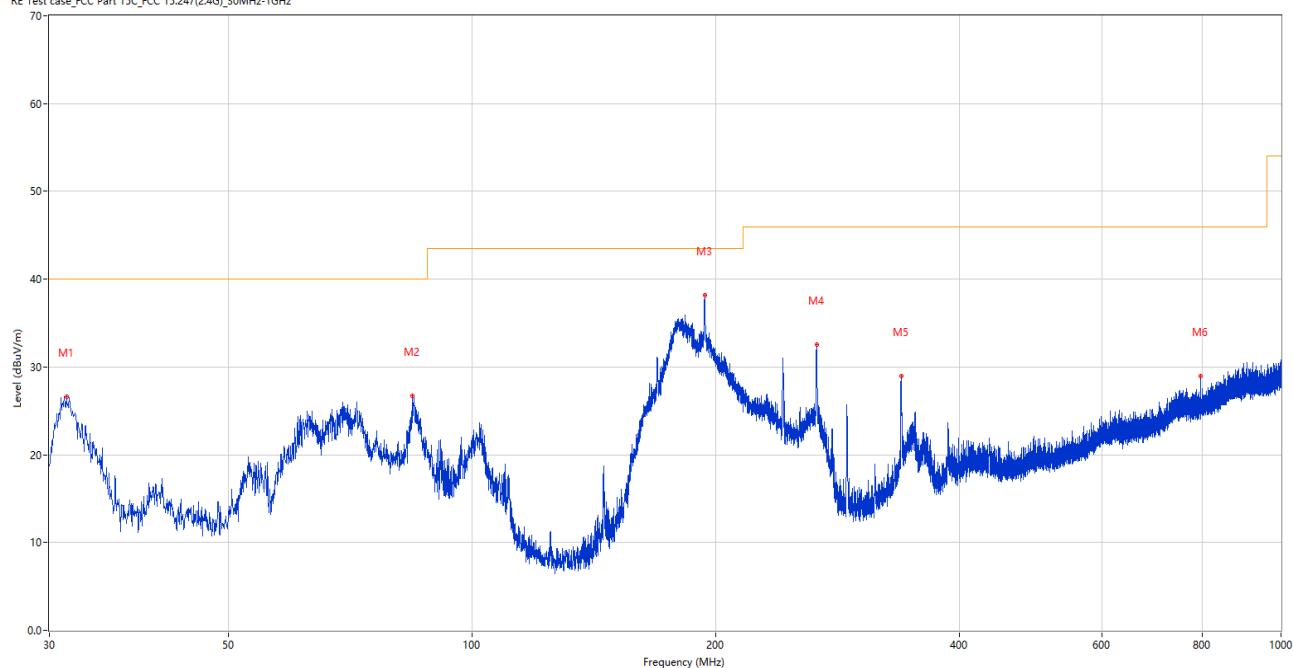
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	30.097	22.07	-28.90	40.0	17.93	Peak	210.00	150	Horizontal	Pass
2	102.362	28.17	-26.09	43.5	15.33	Peak	360.00	200	Horizontal	Pass
3	178.652	33.25	-27.93	43.5	10.25	Peak	267.00	150	Horizontal	Pass
4	266.341	31.24	-24.12	46.0	14.76	Peak	272.00	200	Horizontal	Pass
5	504.524	21.77	-17.87	46.0	24.23	Peak	285.00	150	Horizontal	Pass
6	764.532	28.11	-11.99	46.0	17.89	Peak	360.00	200	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	31.503	26.62	-28.95	40.0	13.38	Peak	274.00	150	Vertical	Pass
2	84.368	26.73	-29.95	40.0	13.27	Peak	310.00	150	Vertical	Pass
3	193.833	38.22	-25.72	43.5	5.28	Peak	178.00	150	Vertical	Pass
4	266.486	32.51	-24.11	46.0	13.49	Peak	208.00	150	Vertical	Pass
5	339.042	29.00	-22.00	46.0	17.00	Peak	86.00	150	Vertical	Pass
6	795.766	28.92	-11.82	46.0	17.08	Peak	141.00	150	Vertical	Pass

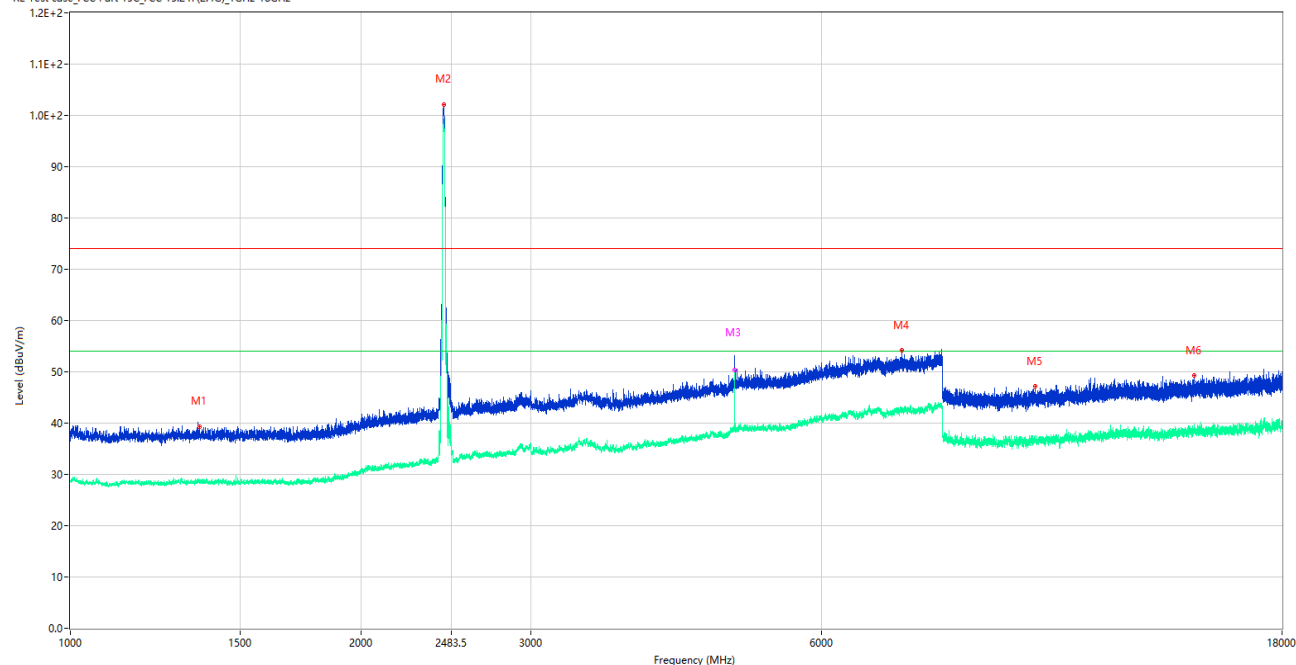
Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

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

Main Antenna

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

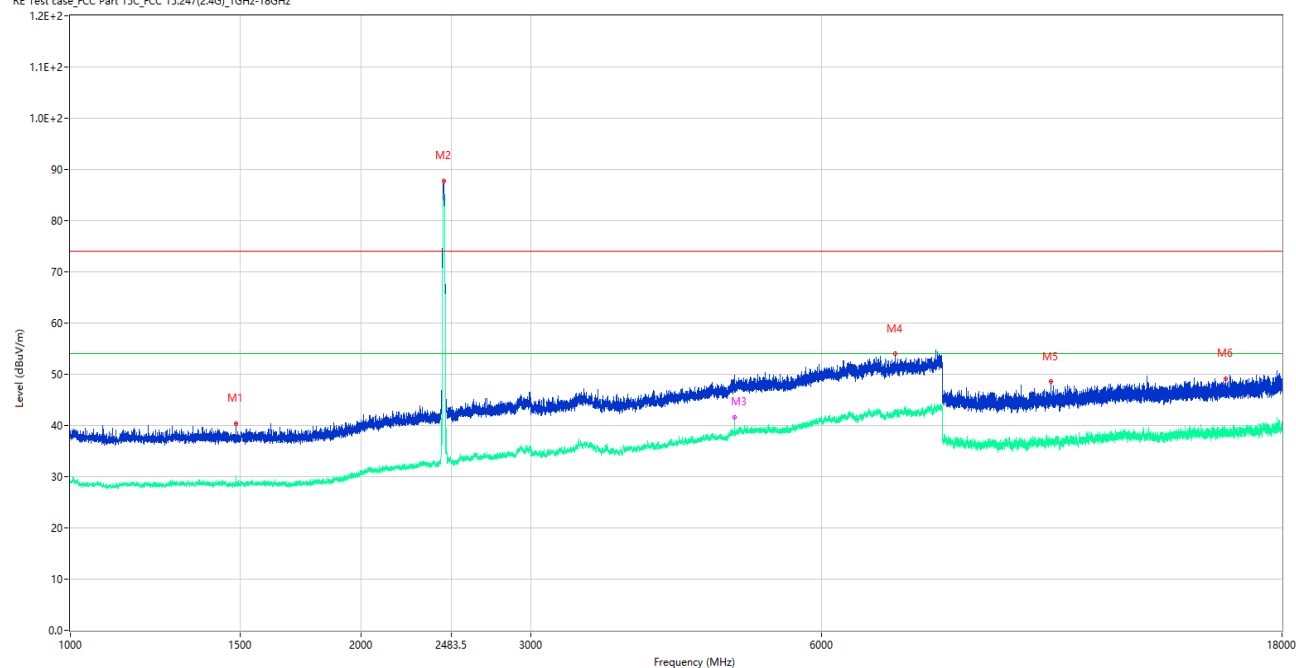
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1362.000	39.34	-15.82	74.0	34.66	Peak	0.00	150	Horizontal	Pass
1**	1362.000	28.29	-15.82	54.0	25.71	AV	0.00	150	Horizontal	Pass
2	2438.250	102.11	-12.38	74.0	-28.11	Peak	94.00	150	Horizontal	N/A
2**	2438.250	99.27	-12.38	54.0	-45.27	AV	94.00	150	Horizontal	N/A
3	4874.500	52.70	-2.25	74.0	21.30	Peak	172.00	150	Horizontal	Pass
3**	4874.500	50.29	-2.25	54.0	3.71	AV	172.00	150	Horizontal	Pass
4	7263.000	54.19	0.51	74.0	19.81	Peak	52.00	150	Horizontal	Pass
4**	7263.000	43.03	0.51	54.0	10.97	AV	52.00	150	Horizontal	Pass
5	9990.000	47.23	-3.76	74.0	26.77	Peak	242.00	150	Horizontal	Pass
5**	9990.000	36.59	-3.76	54.0	17.41	AV	242.00	150	Horizontal	Pass
6	14589.000	49.21	-2.32	74.0	24.79	Peak	11.00	150	Horizontal	Pass
6**	14589.000	39.11	-2.32	54.0	14.89	AV	11.00	150	Horizontal	Pass

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

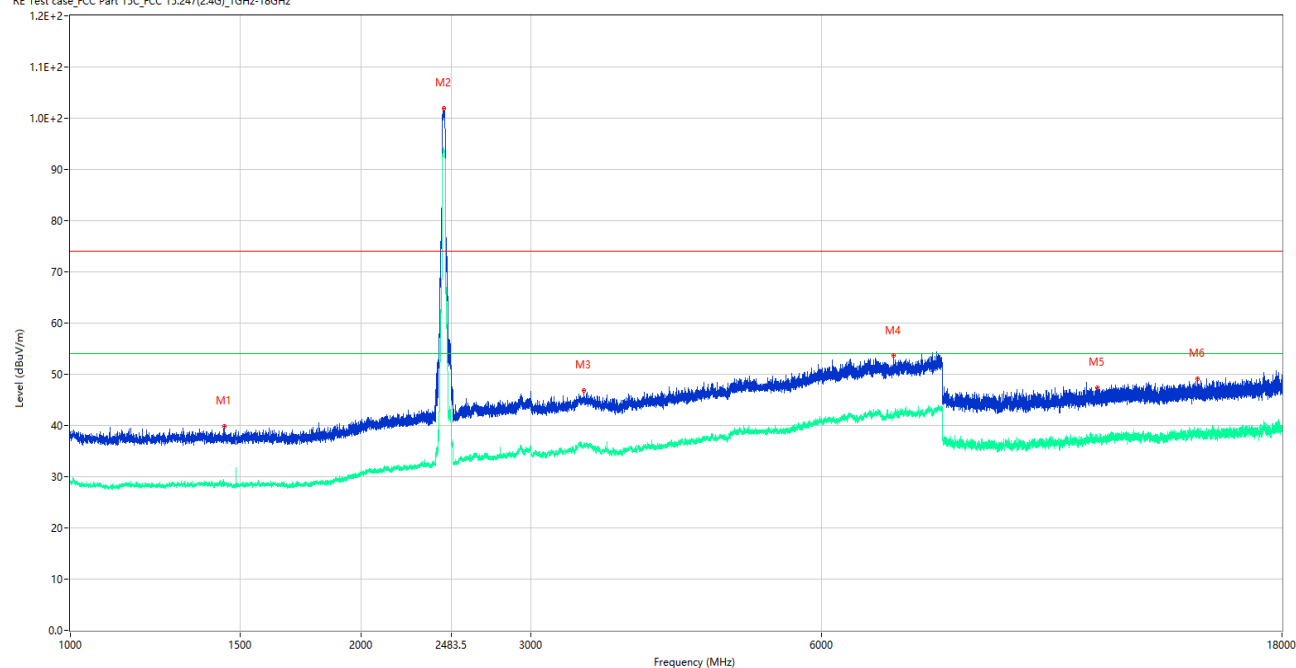
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1485.500	40.40	-16.29	74.0	33.60	Peak	360.00	150	Vertical	Pass
1**	1485.500	29.34	-16.29	54.0	24.66	AV	360.00	150	Vertical	Pass
2	2438.250	87.73	-12.38	74.0	-13.73	Peak	50.00	150	Vertical	N/A
2**	2438.250	84.88	-12.38	54.0	-30.88	AV	50.00	150	Vertical	N/A
3	4874.500	48.48	-2.25	74.0	25.52	Peak	0.00	150	Vertical	Pass
3**	4874.500	41.56	-2.25	54.0	12.44	AV	0.00	150	Vertical	Pass
4	7158.000	53.97	0.00	74.0	20.03	Peak	337.00	150	Vertical	Pass
4**	7158.000	42.14	0.00	54.0	11.86	AV	337.00	150	Vertical	Pass
5	10366.000	48.53	-3.18	74.0	25.47	Peak	206.00	150	Vertical	Pass
5**	10366.000	36.35	-3.18	54.0	17.65	AV	206.00	150	Vertical	Pass
6	15725.000	49.08	-1.98	74.0	24.92	Peak	175.00	150	Vertical	Pass
6**	15725.000	38.14	-1.98	54.0	15.86	AV	175.00	150	Vertical	Pass

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

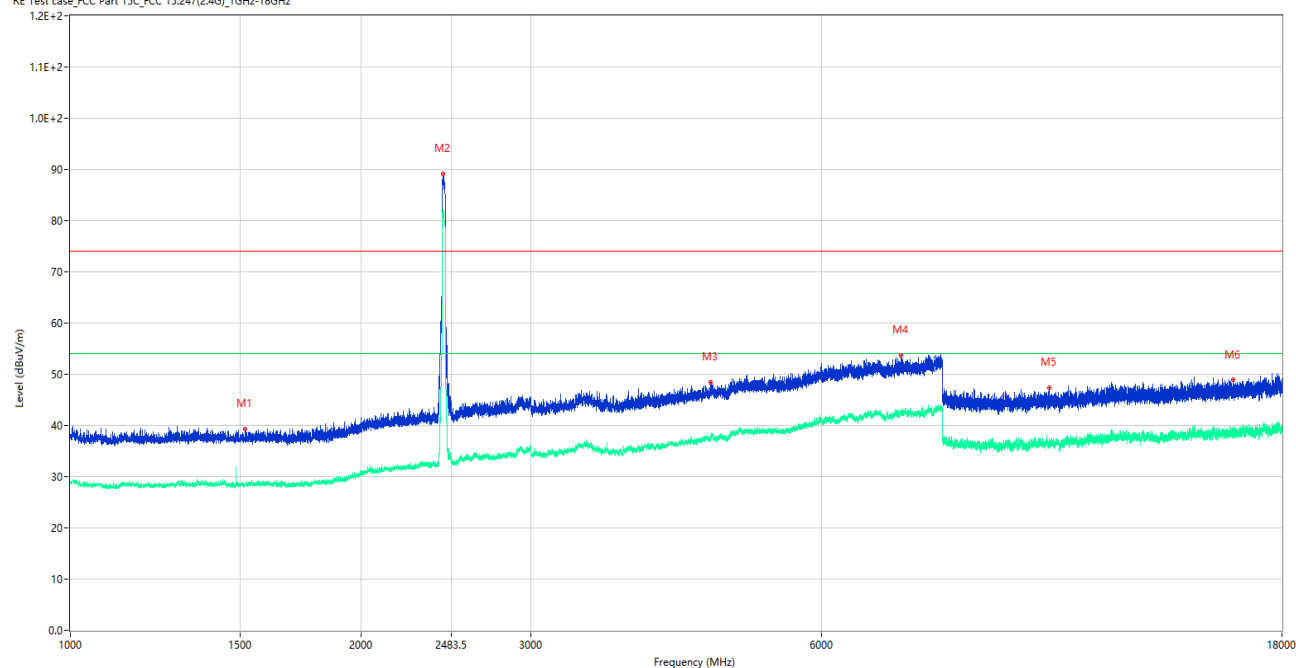
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1444.750	39.85	-15.90	74.0	34.15	Peak	148.00	150	Horizontal	Pass
1**	1444.750	29.00	-15.90	54.0	25.00	AV	148.00	150	Horizontal	Pass
2	2438.500	101.94	-12.37	74.0	-27.94	Peak	83.00	150	Horizontal	N/A
2**	2438.500	94.21	-12.37	54.0	-40.21	AV	83.00	150	Horizontal	N/A
3	3405.500	46.87	-5.43	74.0	27.13	Peak	92.00	150	Horizontal	Pass
3**	3405.500	36.15	-5.43	54.0	17.85	AV	92.00	150	Horizontal	Pass
4	7124.000	53.64	-0.21	74.0	20.36	Peak	229.00	150	Horizontal	Pass
4**	7124.000	41.81	-0.21	54.0	12.19	AV	229.00	150	Horizontal	Pass
5	11582.500	47.40	-2.44	74.0	26.60	Peak	39.00	150	Horizontal	Pass
5**	11582.500	37.21	-2.44	54.0	16.79	AV	39.00	150	Horizontal	Pass
6	14703.500	49.13	-2.10	74.0	24.87	Peak	69.00	150	Horizontal	Pass
6**	14703.500	38.43	-2.10	54.0	15.57	AV	69.00	150	Horizontal	Pass

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

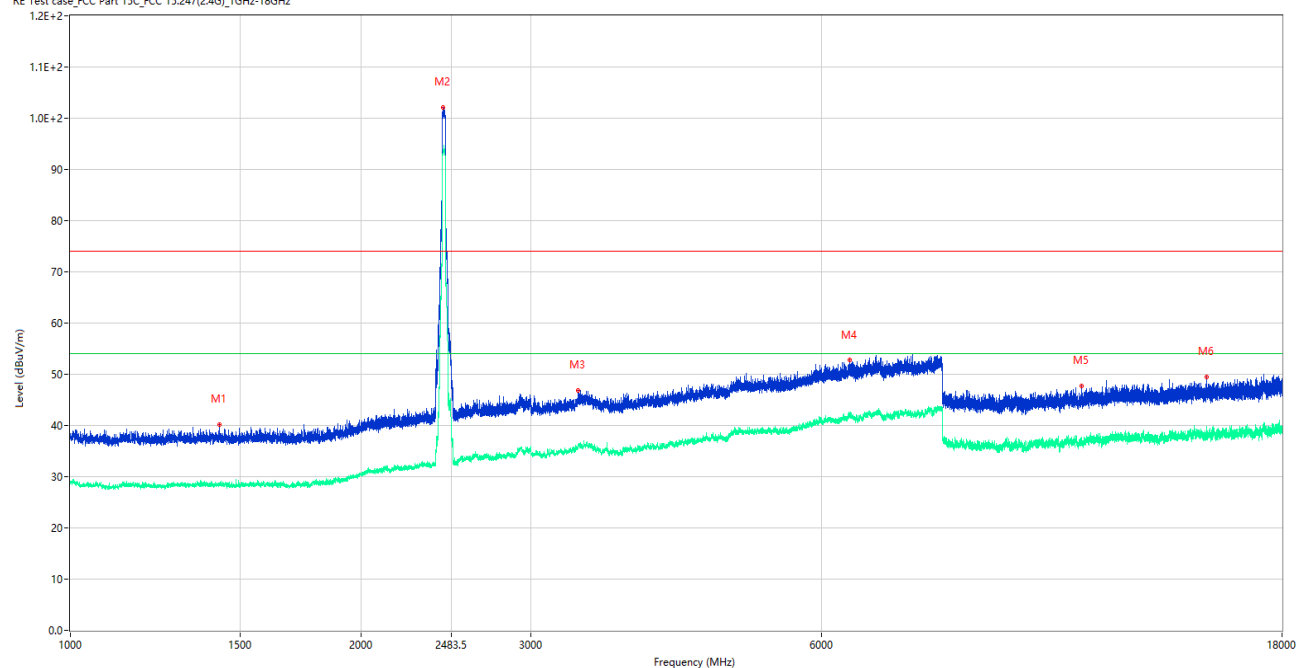
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1518.250	39.23	-16.09	74.0	34.77	Peak	349.00	150	Vertical	Pass
1**	1518.250	28.32	-16.09	54.0	25.68	AV	349.00	150	Vertical	Pass
2	2434.000	89.20	-12.32	74.0	-15.20	Peak	331.00	150	Vertical	N/A
2**	2434.000	81.30	-12.32	54.0	-27.30	AV	331.00	150	Vertical	N/A
3	4609.500	48.49	-3.52	74.0	25.51	Peak	239.00	150	Vertical	Pass
3**	4609.500	37.58	-3.52	54.0	16.42	AV	239.00	150	Vertical	Pass
4	7249.500	53.61	0.90	74.0	20.39	Peak	41.00	150	Vertical	Pass
4**	7249.500	42.34	0.90	54.0	11.66	AV	41.00	150	Vertical	Pass
5	10329.500	47.34	-3.18	74.0	26.66	Peak	360.00	150	Vertical	Pass
5**	10329.500	36.53	-3.18	54.0	17.47	AV	360.00	150	Vertical	Pass
6	16022.500	48.95	-2.31	74.0	25.05	Peak	320.00	150	Vertical	Pass
6**	16022.500	38.40	-2.31	54.0	15.60	AV	320.00	150	Vertical	Pass

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

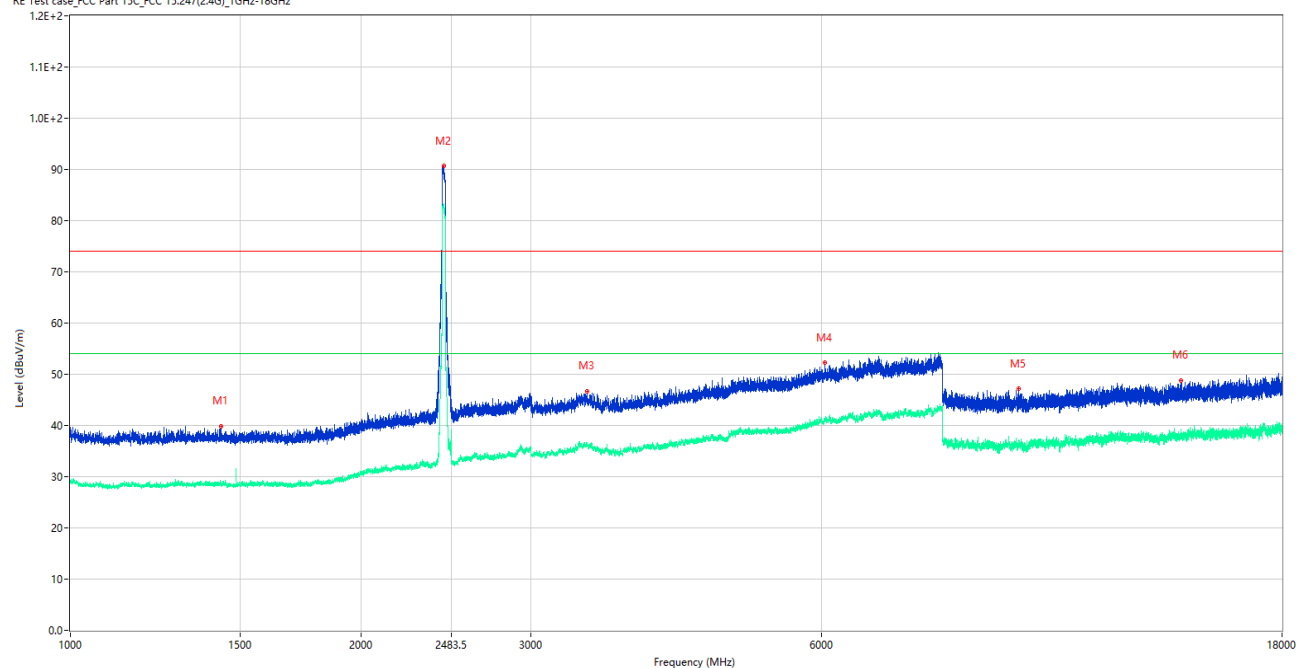
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1426.250	40.19	-15.96	74.0	33.81	Peak	235.00	150	Horizontal	Pass
1**	1426.250	28.27	-15.96	54.0	25.73	AV	235.00	150	Horizontal	Pass
2	2432.250	102.17	-12.29	74.0	-28.17	Peak	80.00	150	Horizontal	N/A
2**	2432.250	93.32	-12.29	54.0	-39.32	AV	80.00	150	Horizontal	N/A
3	3359.000	46.93	-5.94	74.0	27.07	Peak	271.00	150	Horizontal	Pass
3**	3359.000	36.18	-5.94	54.0	17.82	AV	271.00	150	Horizontal	Pass
4	6415.000	52.74	0.25	74.0	21.26	Peak	308.00	150	Horizontal	Pass
4**	6415.000	42.17	0.25	54.0	11.83	AV	308.00	150	Horizontal	Pass
5	11150.500	47.78	-4.15	74.0	26.22	Peak	9.00	150	Horizontal	Pass
5**	11150.500	36.66	-4.15	54.0	17.34	AV	9.00	150	Horizontal	Pass
6	15040.500	49.55	-2.09	74.0	24.45	Peak	234.00	150	Horizontal	Pass
6**	15040.500	37.97	-2.09	54.0	16.03	AV	234.00	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

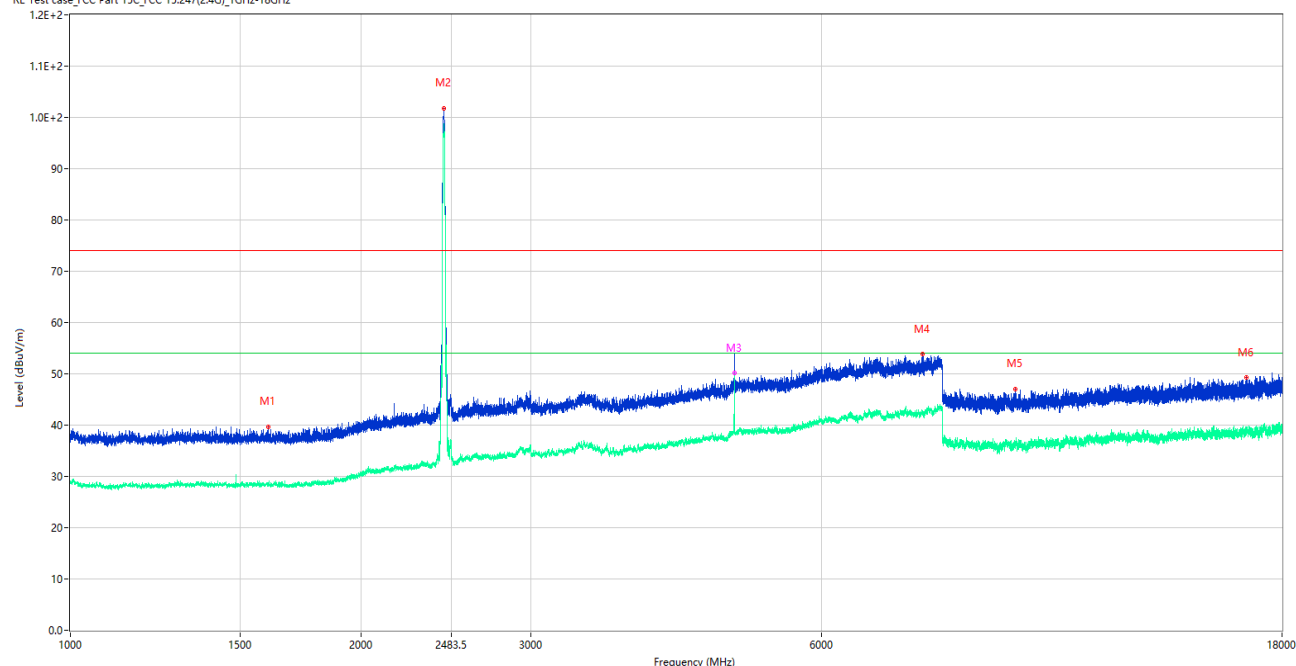


No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1432.250	39.80	-15.98	74.0	34.20	Peak	124.00	150	Vertical	Pass
1**	1432.250	28.43	-15.98	54.0	25.57	AV	124.00	150	Vertical	Pass
2	2435.750	90.68	-12.32	74.0	-16.68	Peak	95.00	150	Vertical	N/A
2**	2435.750	83.24	-12.32	54.0	-29.24	AV	95.00	150	Vertical	N/A
3	3430.000	46.74	-5.02	74.0	27.26	Peak	360.00	150	Vertical	Pass
3**	3430.000	35.98	-5.02	54.0	18.02	AV	360.00	150	Vertical	Pass
4	6051.500	52.30	-0.40	74.0	21.70	Peak	327.00	150	Vertical	Pass
4**	6051.500	41.08	-0.40	54.0	12.92	AV	327.00	150	Vertical	Pass
5	9612.000	47.12	-3.23	74.0	26.88	Peak	0.00	150	Vertical	Pass
5**	9612.000	36.40	-3.23	54.0	17.60	AV	0.00	150	Vertical	Pass
6	14144.500	48.83	-1.17	74.0	25.17	Peak	352.00	150	Vertical	Pass
6**	14144.500	38.52	-1.17	54.0	15.48	AV	352.00	150	Vertical	Pass

Aux. Antenna

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

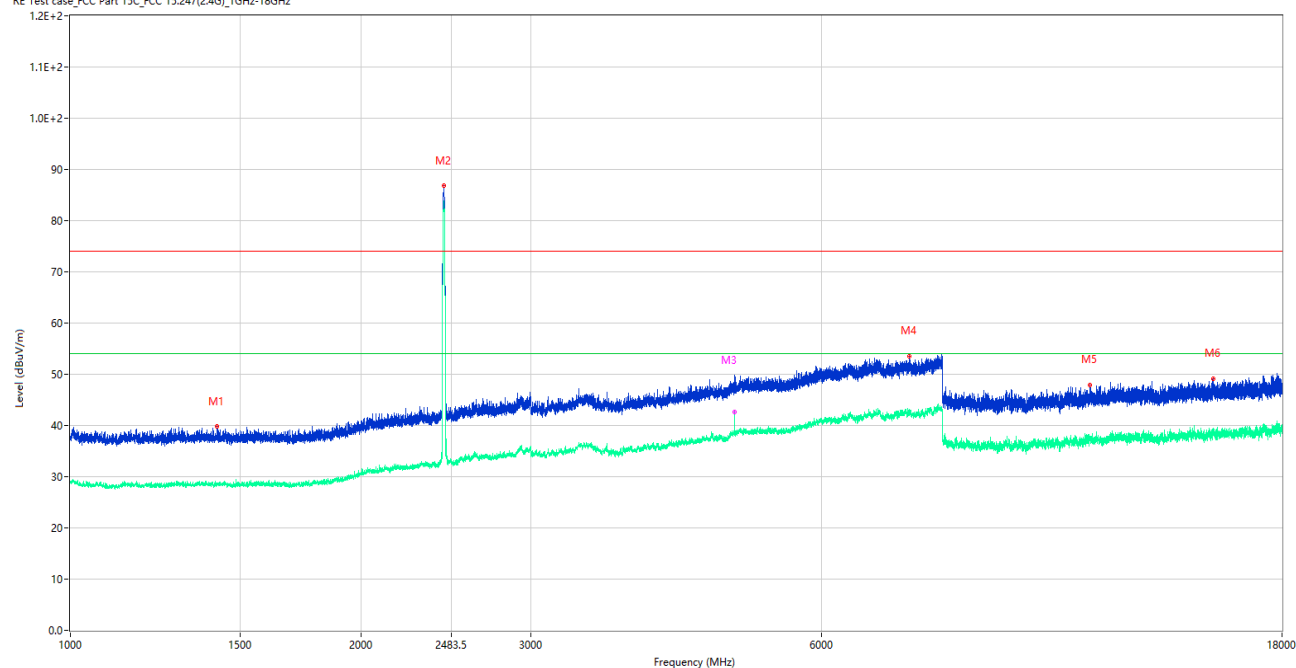
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1602.000	39.69	-16.24	74.0	34.31	Peak	107.00	150	Horizontal	Pass
1**	1602.000	28.44	-16.24	54.0	25.56	AV	107.00	150	Horizontal	Pass
2	2438.500	101.76	-12.37	74.0	-27.76	Peak	231.00	150	Horizontal	N/A
2**	2438.500	98.81	-12.37	54.0	-44.81	AV	231.00	150	Horizontal	N/A
3	4874.500	52.69	-2.25	74.0	21.31	Peak	180.00	150	Horizontal	Pass
3**	4874.500	50.11	-2.25	54.0	3.89	AV	180.00	150	Horizontal	Pass
4	7630.500	53.83	0.70	74.0	20.17	Peak	120.00	150	Horizontal	Pass
4**	7630.500	42.58	0.70	54.0	11.42	AV	120.00	150	Horizontal	Pass
5	9520.500	47.01	-2.80	74.0	26.99	Peak	360.00	150	Horizontal	Pass
5**	9520.500	35.67	-2.80	54.0	18.33	AV	360.00	150	Horizontal	Pass
6	16538.500	49.29	-1.72	74.0	24.71	Peak	320.00	150	Horizontal	Pass
6**	16538.500	38.69	-1.72	54.0	15.31	AV	320.00	150	Horizontal	Pass

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

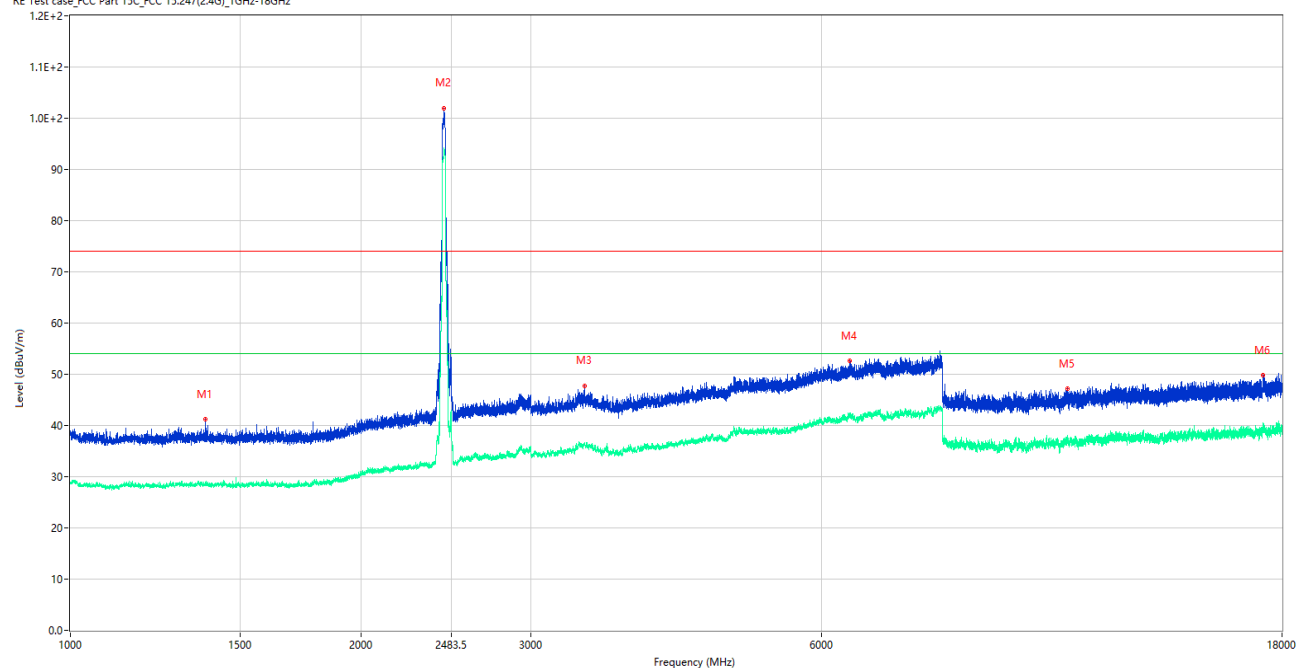
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1418.750	39.80	-15.91	74.0	34.20	Peak	242.00	150	Vertical	Pass
1**	1418.750	28.69	-15.91	54.0	25.31	AV	242.00	150	Vertical	Pass
2	2438.250	86.80	-12.38	74.0	-12.80	Peak	133.00	150	Vertical	N/A
2**	2438.250	83.89	-12.38	54.0	-29.89	AV	133.00	150	Vertical	N/A
3	4874.500	48.46	-2.25	74.0	25.54	Peak	360.00	150	Vertical	Pass
3**	4874.500	42.56	-2.25	54.0	11.44	AV	360.00	150	Vertical	Pass
4	7398.500	53.44	0.86	74.0	20.56	Peak	2.00	150	Vertical	Pass
4**	7398.500	42.42	0.86	54.0	11.58	AV	2.00	150	Vertical	Pass
5	11382.500	47.95	-3.50	74.0	26.05	Peak	328.00	150	Vertical	Pass
5**	11382.500	37.43	-3.50	54.0	16.57	AV	328.00	150	Vertical	Pass
6	15270.500	49.15	-1.28	74.0	24.85	Peak	328.00	150	Vertical	Pass
6**	15270.500	39.03	-1.28	54.0	14.97	AV	328.00	150	Vertical	Pass

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

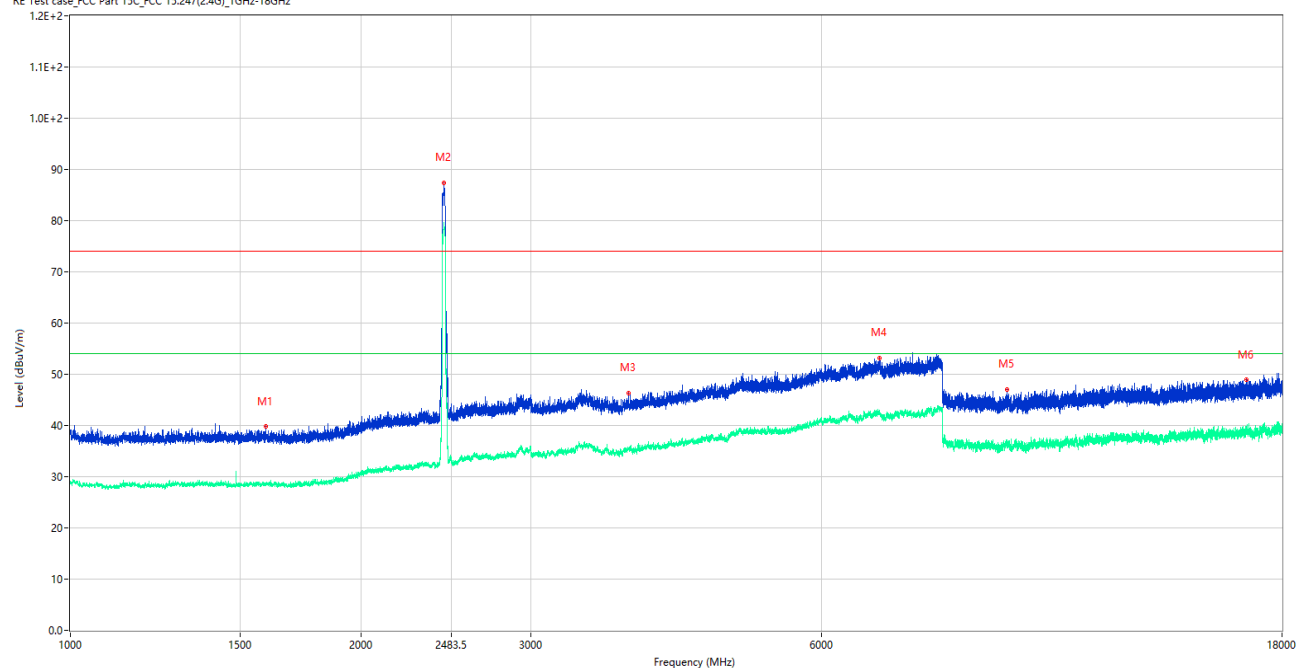
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1380.500	41.20	-15.98	74.0	32.80	Peak	341.00	150	Horizontal	Pass
1**	1380.500	28.48	-15.98	54.0	25.52	AV	341.00	150	Horizontal	Pass
2	2438.500	101.94	-12.37	74.0	-27.94	Peak	235.00	150	Horizontal	N/A
2**	2438.500	94.08	-12.37	54.0	-40.08	AV	235.00	150	Horizontal	N/A
3	3410.500	47.75	-5.31	74.0	26.25	Peak	360.00	150	Horizontal	Pass
3**	3410.500	36.08	-5.31	54.0	17.92	AV	360.00	150	Horizontal	Pass
4	6417.000	52.60	0.17	74.0	21.40	Peak	130.00	150	Horizontal	Pass
4**	6417.000	41.82	0.17	54.0	12.18	AV	130.00	150	Horizontal	Pass
5	10798.500	47.12	-3.21	74.0	26.88	Peak	0.00	150	Horizontal	Pass
5**	10798.500	37.95	-3.21	54.0	16.05	AV	0.00	150	Horizontal	Pass
6	17202.500	49.78	0.05	74.0	24.22	Peak	98.00	150	Horizontal	Pass
6**	17202.500	39.22	0.05	54.0	14.78	AV	98.00	150	Horizontal	Pass

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

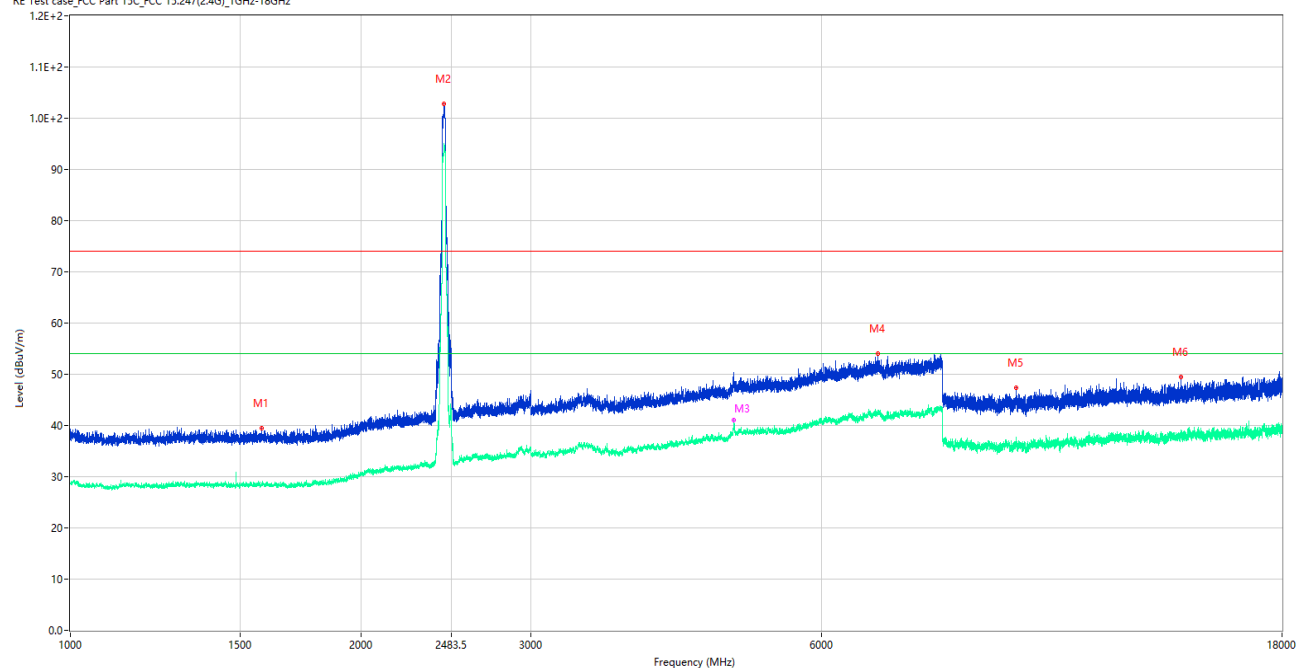
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1595.250	39.85	-16.24	74.0	34.15	Peak	212.00	150	Vertical	Pass
1**	1595.250	28.53	-16.24	54.0	25.47	AV	212.00	150	Vertical	Pass
2	2437.000	87.39	-12.37	74.0	-13.39	Peak	117.00	150	Vertical	N/A
2**	2437.000	78.43	-12.37	54.0	-24.43	AV	117.00	150	Vertical	N/A
3	3785.500	46.31	-5.34	74.0	27.69	Peak	21.00	150	Vertical	Pass
3**	3785.500	35.40	-5.34	54.0	18.60	AV	21.00	150	Vertical	Pass
4	6886.000	53.17	0.62	74.0	20.83	Peak	42.00	150	Vertical	Pass
4**	6886.000	42.91	0.62	54.0	11.09	AV	42.00	150	Vertical	Pass
5	9338.500	47.08	-5.15	74.0	26.92	Peak	351.00	150	Vertical	Pass
5**	9338.500	36.38	-5.15	54.0	17.62	AV	351.00	150	Vertical	Pass
6	16549.500	48.88	-1.10	74.0	25.12	Peak	1.00	150	Vertical	Pass
6**	16549.500	39.46	-1.10	54.0	14.54	AV	1.00	150	Vertical	Pass

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

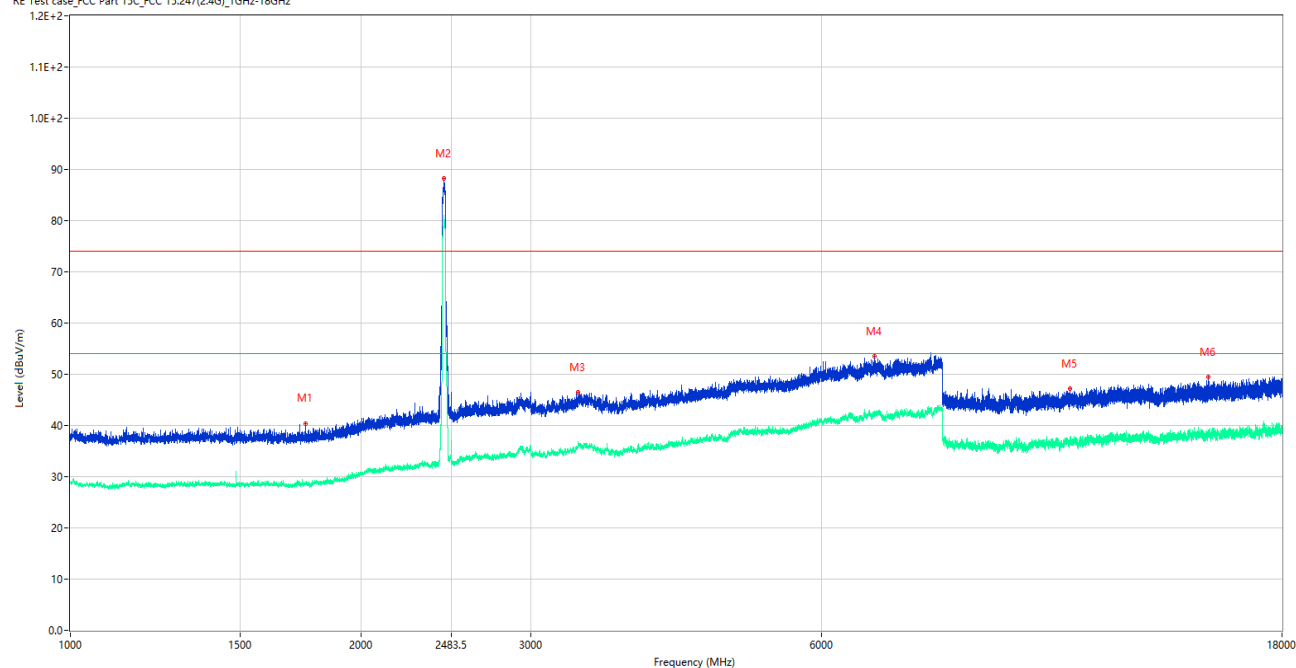
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1579.000	39.46	-16.11	74.0	34.54	Peak	7.00	150	Horizontal	Pass
1**	1579.000	28.72	-16.11	54.0	25.28	AV	7.00	150	Horizontal	Pass
2	2439.500	102.77	-12.37	74.0	-28.77	Peak	234.00	150	Horizontal	N/A
2**	2439.500	94.90	-12.37	54.0	-40.90	AV	234.00	150	Horizontal	N/A
3	4870.000	48.20	-2.15	74.0	25.80	Peak	219.00	150	Horizontal	Pass
3**	4870.000	41.02	-2.15	54.0	12.98	AV	219.00	150	Horizontal	Pass
4	6867.000	53.98	0.92	74.0	20.02	Peak	0.00	150	Horizontal	Pass
4**	6867.000	42.54	0.92	54.0	11.46	AV	0.00	150	Horizontal	Pass
5	9546.000	47.36	-2.53	74.0	26.64	Peak	349.00	150	Horizontal	Pass
5**	9546.000	37.06	-2.53	54.0	16.94	AV	349.00	150	Horizontal	Pass
6	14142.500	49.50	-1.12	74.0	24.50	Peak	10.00	150	Horizontal	Pass
6**	14142.500	38.53	-1.12	54.0	15.47	AV	10.00	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	1753.250	40.43	-15.94	74.0	33.57	Peak	39.00	150	Vertical	Pass
1**	1753.250	28.81	-15.94	54.0	25.19	AV	39.00	150	Vertical	Pass
2	2438.250	88.18	-12.38	74.0	-14.18	Peak	117.00	150	Vertical	N/A
2**	2438.250	81.07	-12.38	54.0	-27.07	AV	117.00	150	Vertical	N/A
3	3358.000	46.45	-6.04	74.0	27.55	Peak	81.00	150	Vertical	Pass
3**	3358.000	36.92	-6.04	54.0	17.08	AV	81.00	150	Vertical	Pass
4	6814.500	53.49	0.31	74.0	20.51	Peak	249.00	150	Vertical	Pass
4**	6814.500	41.95	0.31	54.0	12.05	AV	249.00	150	Vertical	Pass
5	10865.000	47.15	-3.24	74.0	26.85	Peak	154.00	150	Vertical	Pass
5**	10865.000	37.35	-3.24	54.0	16.65	AV	154.00	150	Vertical	Pass
6	15089.000	49.48	-1.88	74.0	24.52	Peak	360.00	150	Vertical	Pass
6**	15089.000	38.36	-1.88	54.0	15.64	AV	360.00	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.

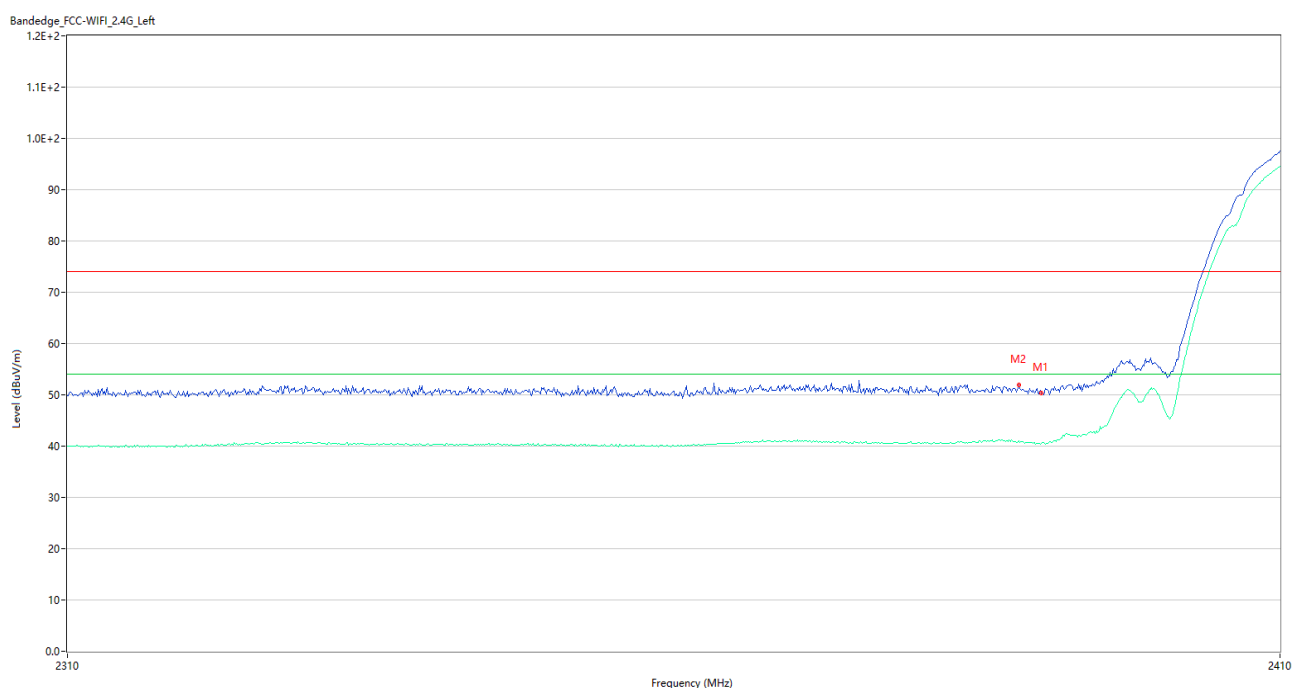
Note 2: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

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.

Test Data and Plots

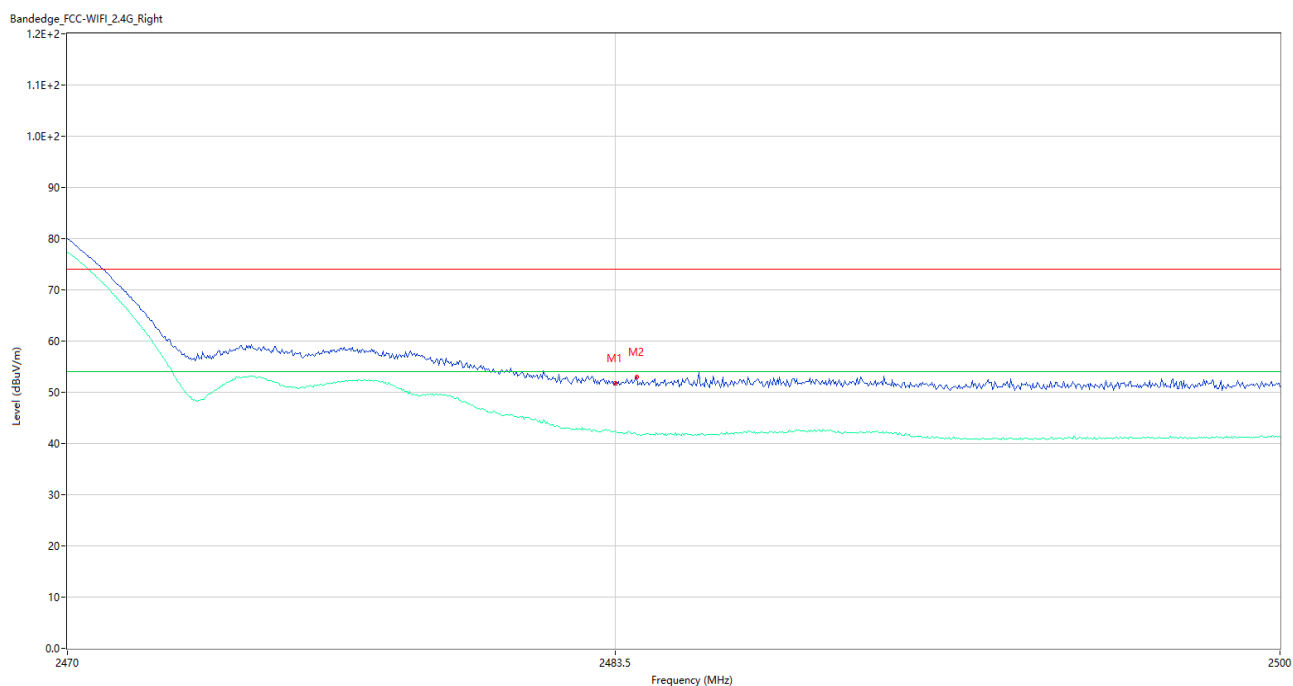
Main Antenna

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	50.36	-4.87	74.0	23.64	Peak	89.97	150	Horizontal	Pass
1**	2390.000	40.46	-4.87	54.0	13.54	AV	89.97	150	Horizontal	Pass
2	2388.100	51.87	-4.77	74.0	22.13	Peak	272.00	150	Horizontal	Pass
2**	2388.100	40.99	-4.77	54.0	13.01	AV	272.00	150	Horizontal	Pass

802.11b HIGH CHANNEL



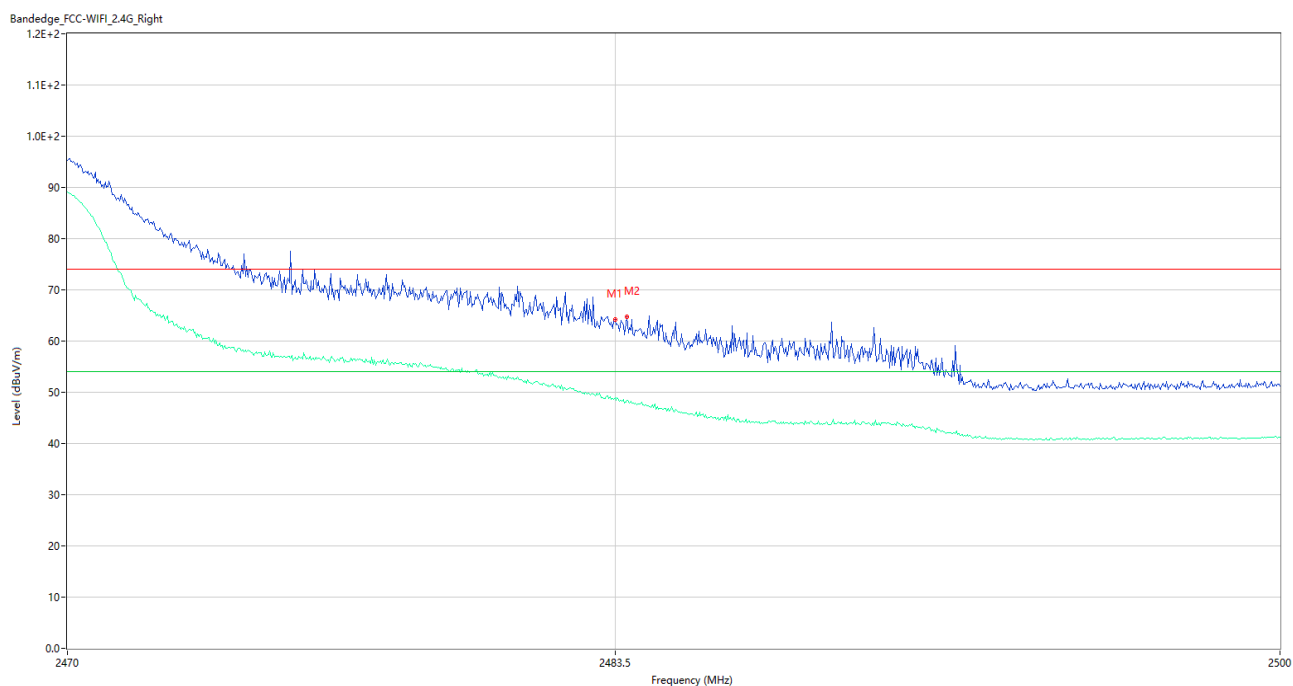
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	51.71	-3.78	74.0	22.29	Peak	181.00	150	Horizontal	Pass
1**	2483.500	42.37	-3.78	54.0	11.63	AV	181.00	150	Horizontal	Pass
2	2484.040	52.99	-3.78	74.0	21.01	Peak	1.00	150	Horizontal	Pass
2**	2484.040	41.82	-3.78	54.0	12.18	AV	1.00	150	Horizontal	Pass

802.11g LOW CHANNEL



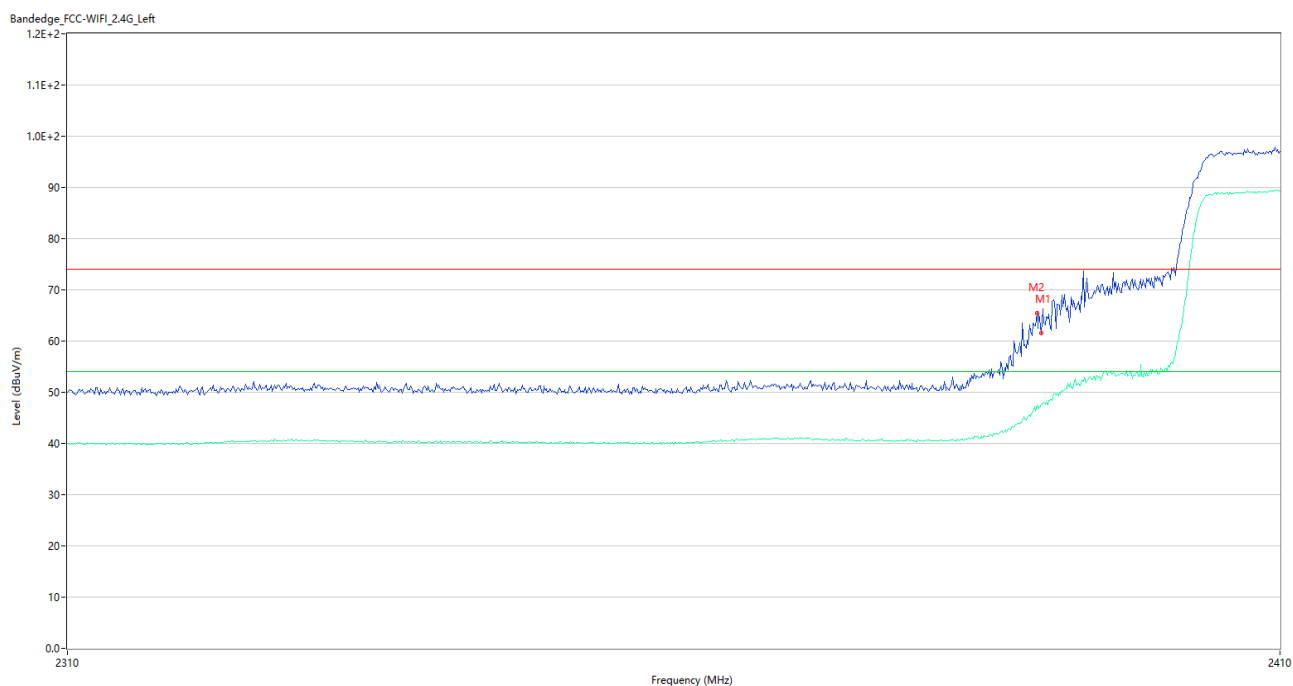
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	61.33	-4.87	74.0	12.67	Peak	130.95	150	Horizontal	Pass
1**	2390.000	43.89	-4.87	54.0	10.11	AV	130.95	150	Horizontal	Pass
2	2389.400	56.78	-4.84	74.0	17.22	Peak	95.00	150	Horizontal	Pass
2**	2389.400	42.75	-4.84	54.0	11.25	AV	95.00	150	Horizontal	Pass

802.11g HIGH CHANNEL



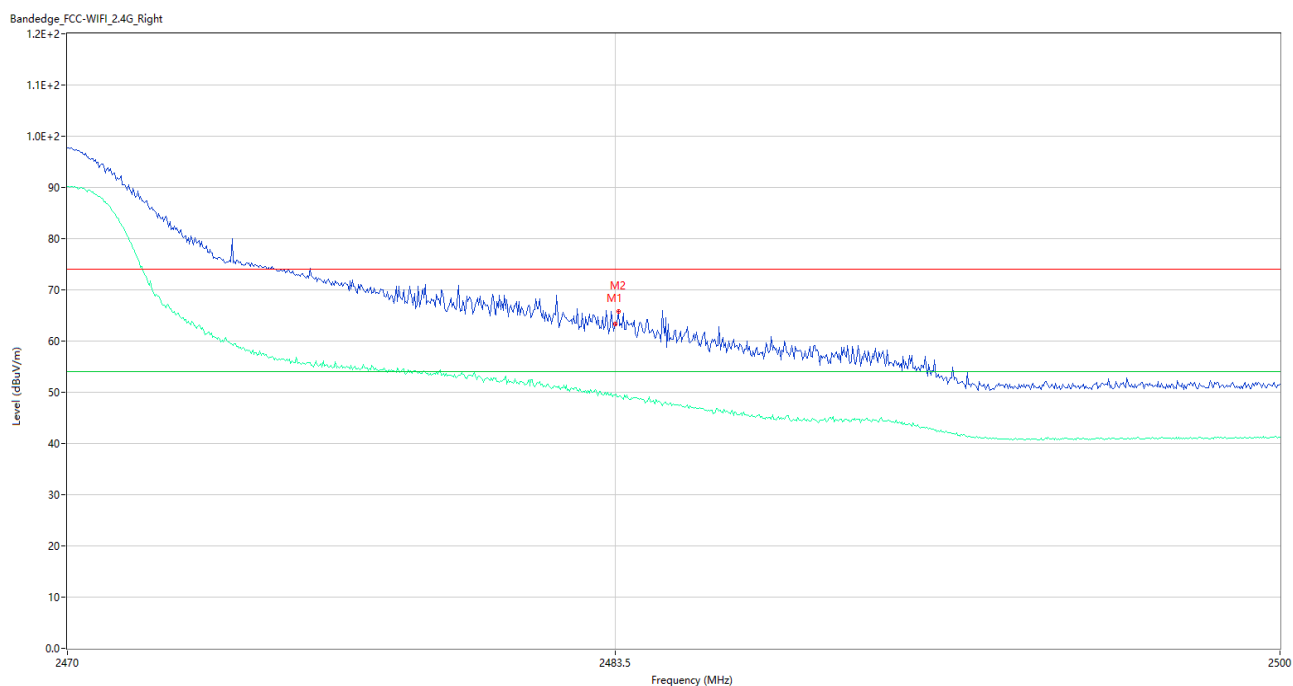
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	64.23	-3.78	74.0	9.77	Peak	74.00	150	Horizontal	Pass
1**	2483.500	48.99	-3.78	54.0	5.01	AV	74.00	150	Horizontal	Pass
2	2483.800	64.80	-3.78	74.0	9.20	Peak	57.00	150	Horizontal	Pass
2**	2483.800	48.37	-3.78	54.0	5.63	AV	57.00	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	61.65	-4.87	74.0	12.35	Peak	48.01	150	Horizontal	Pass
1**	2390.000	47.61	-4.87	54.0	6.39	AV	48.01	150	Horizontal	Pass
2	2389.600	65.47	-4.85	74.0	8.53	Peak	52.00	150	Horizontal	Pass
2**	2389.600	47.56	-4.85	54.0	6.44	AV	52.00	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	63.32	-3.78	74.0	10.68	Peak	80.00	150	Horizontal	Pass
1**	2483.500	49.55	-3.78	54.0	4.45	AV	80.00	150	Horizontal	Pass
2	2483.590	65.81	-3.78	74.0	8.19	Peak	80.00	150	Horizontal	Pass
2**	2483.590	49.06	-3.78	54.0	4.94	AV	80.00	150	Horizontal	Pass

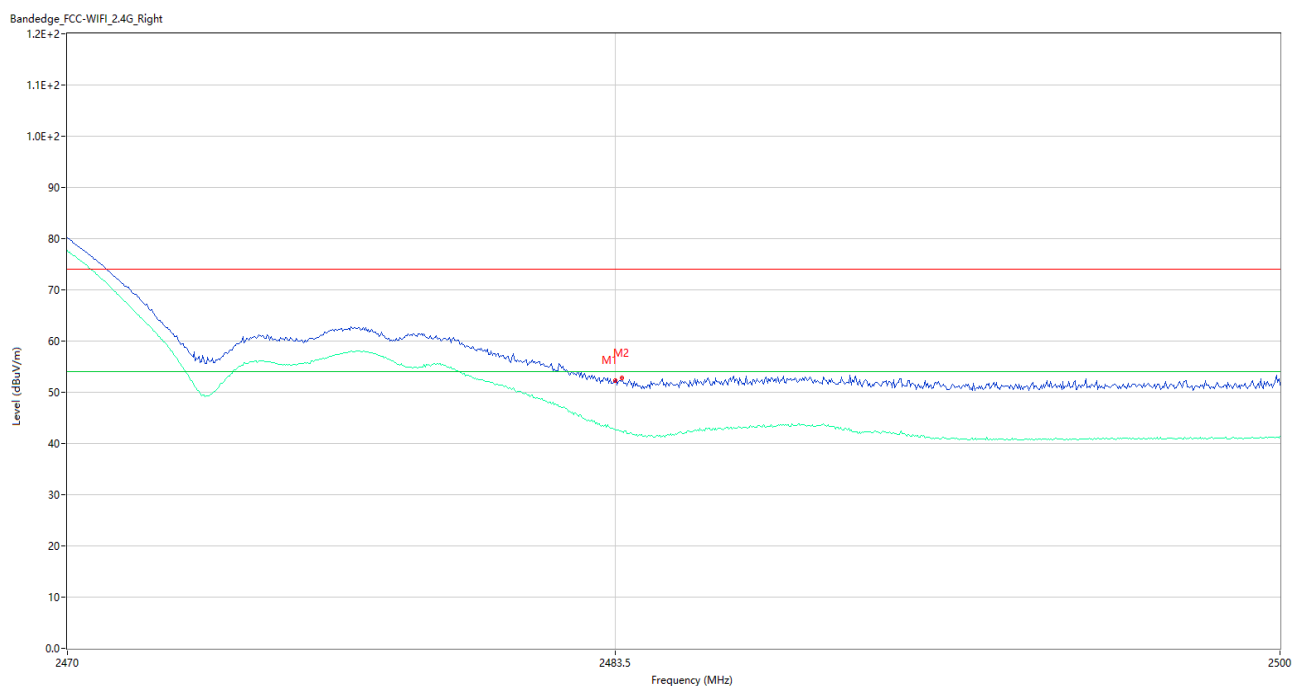
Aux. Antenna

802.11b LOW CHANNEL



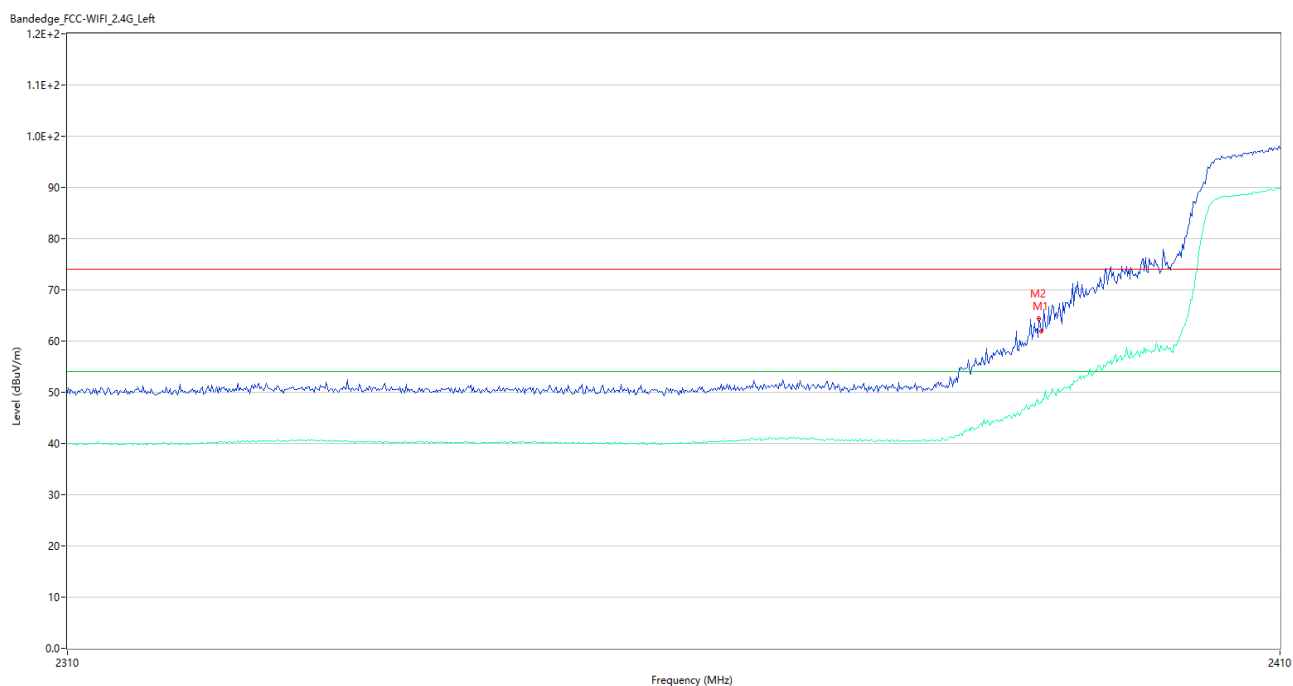
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	50.53	-4.87	74.0	23.47	Peak	56.33	150	Horizontal	Pass
1**	2390.000	40.46	-4.87	54.0	13.54	AV	56.33	150	Horizontal	Pass
2	2387.900	52.82	-4.76	74.0	21.18	Peak	216.00	150	Horizontal	Pass
2**	2387.900	40.64	-4.76	54.0	13.36	AV	216.00	150	Horizontal	Pass

802.11b HIGH CHANNEL



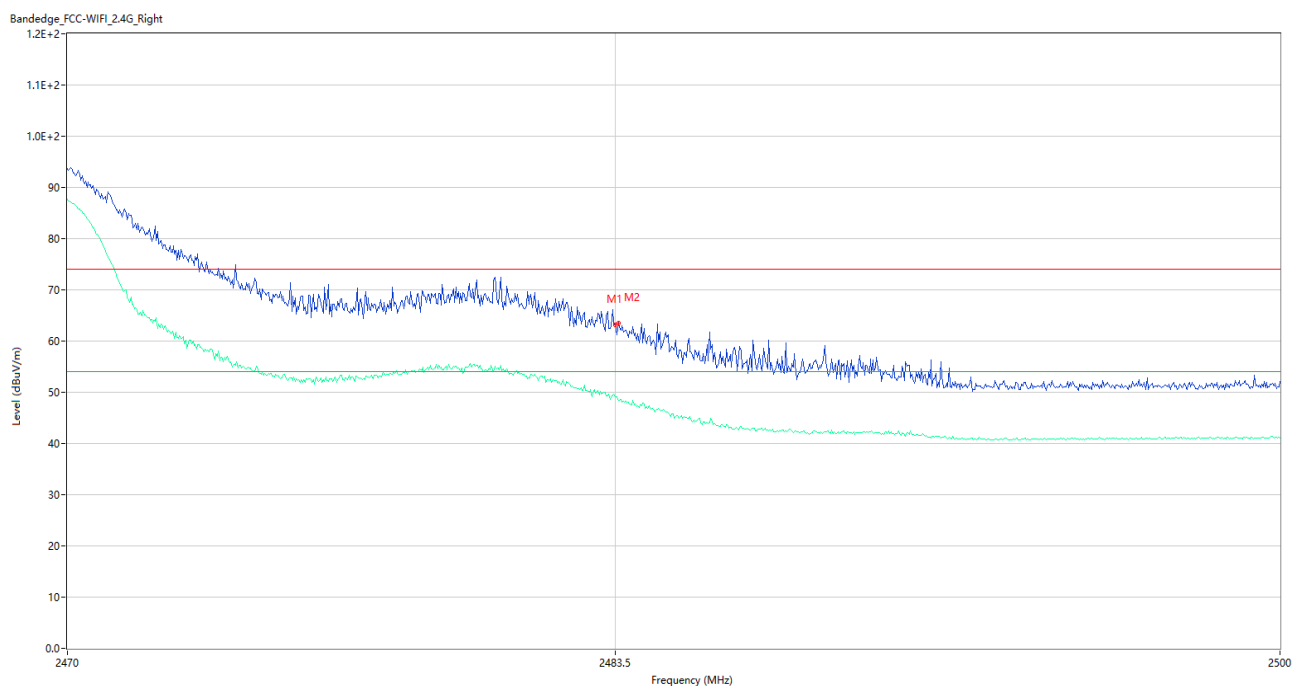
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	52.30	-3.78	74.0	21.70	Peak	220.00	150	Horizontal	Pass
1**	2483.500	42.61	-3.78	54.0	11.39	AV	220.00	150	Horizontal	Pass
2	2483.680	52.73	-3.78	74.0	21.27	Peak	16.00	150	Horizontal	Pass
2**	2483.680	42.23	-3.78	54.0	11.77	AV	16.00	150	Horizontal	Pass

802.11g LOW CHANNEL



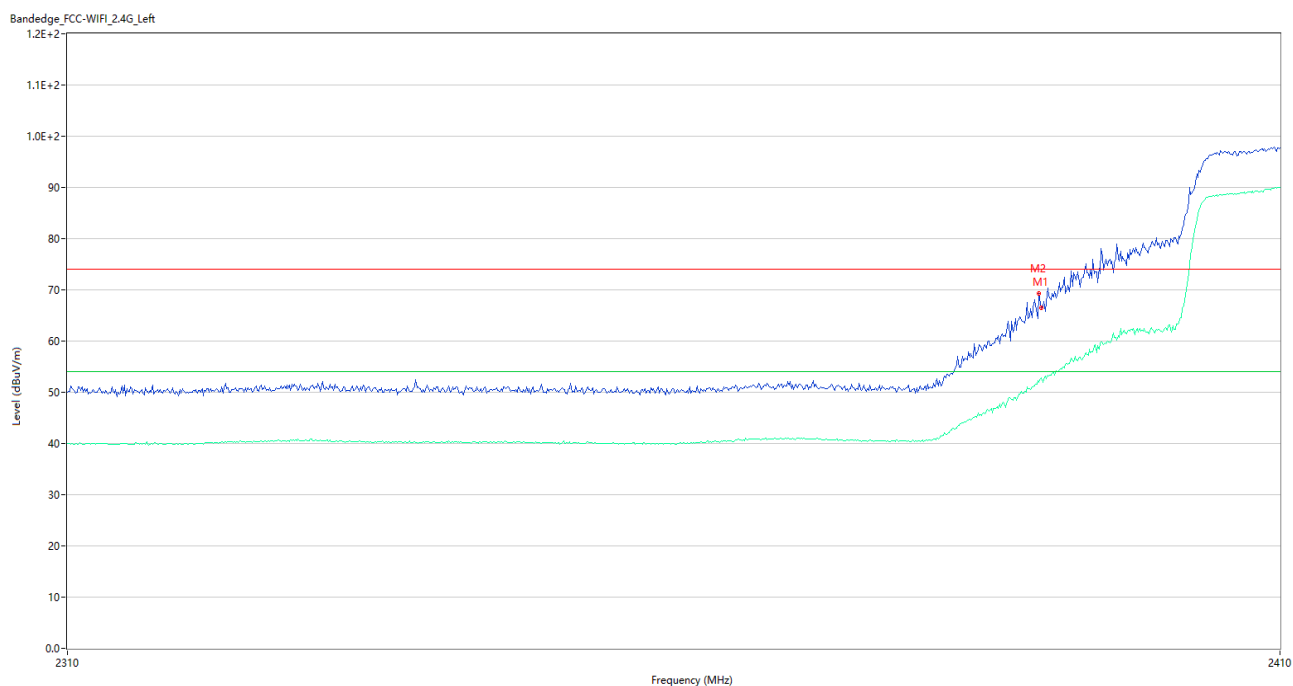
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1	2390.000	61.88	-4.87	74.0	12.12	Peak	279.93	150	Horizontal	Pass
1**	2390.000	47.94	-4.87	54.0	6.06	AV	279.93	150	Horizontal	Pass
2	2389.800	64.34	-4.86	74.0	9.66	Peak	274.00	150	Horizontal	Pass
2**	2389.800	47.71	-4.86	54.0	6.29	AV	274.00	150	Horizontal	Pass

802.11g HIGH CHANNEL



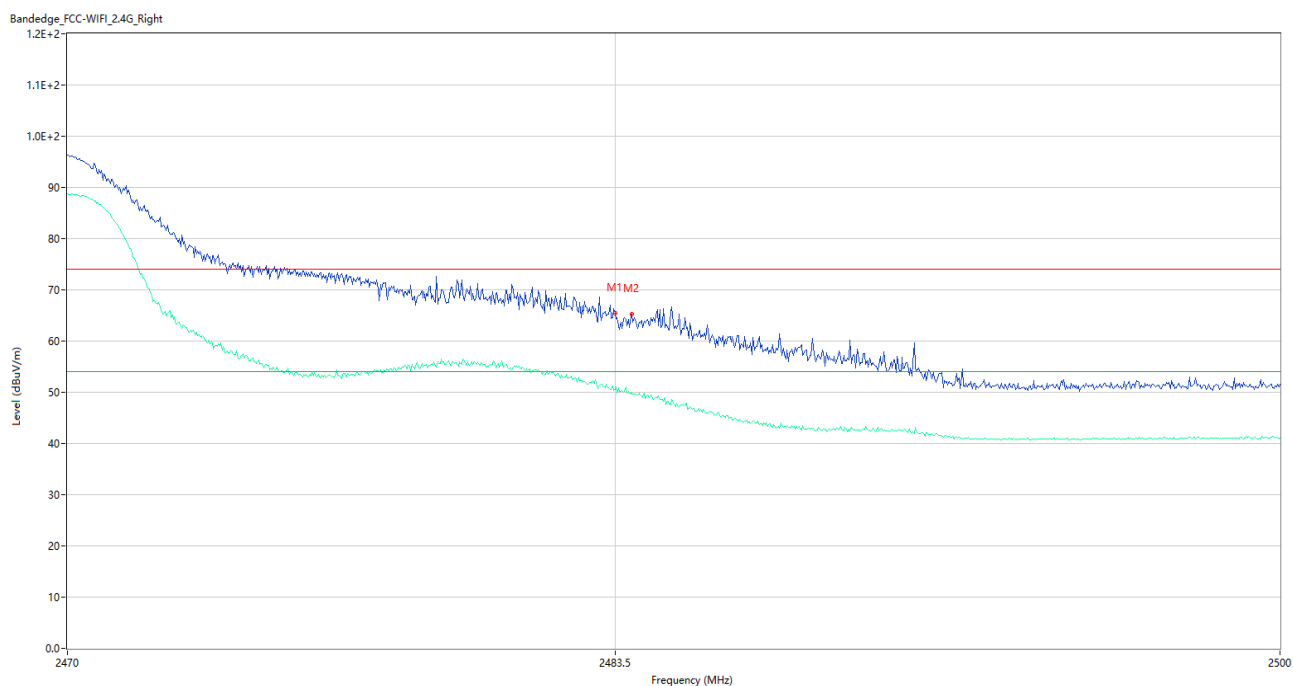
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	63.21	-3.78	74.0	10.79	Peak	236.00	150	Horizontal	Pass
1**	2483.500	49.21	-3.78	54.0	4.79	AV	236.00	150	Horizontal	Pass
2	2483.590	63.52	-3.78	74.0	10.48	Peak	239.00	150	Horizontal	Pass
2**	2483.590	48.48	-3.78	54.0	5.52	AV	239.00	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	66.58	-4.87	74.0	7.42	Peak	216.95	150	Horizontal	Pass
1**	2390.000	52.76	-4.87	54.0	1.24	AV	216.95	150	Horizontal	Pass
2	2389.800	69.36	-4.86	74.0	4.64	Peak	229.00	150	Horizontal	Pass
2**	2389.800	51.91	-4.86	54.0	2.09	AV	229.00	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	65.23	-3.78	74.0	8.77	Peak	228.00	150	Horizontal	Pass
1**	2483.500	50.53	-3.78	54.0	3.47	AV	228.00	150	Horizontal	Pass
2	2483.920	65.24	-3.78	74.0	8.76	Peak	246.00	150	Horizontal	Pass
2**	2483.920	50.06	-3.78	54.0	3.94	AV	246.00	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

Main Antenna

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-6.53	8
Middle	-6.24	8
High	-7.21	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-14.73	8
Middle	-10.89	8
High	-9.61	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-10.00	8
Middle	-10.11	8
High	-11.29	8

Aux. Antenna

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-3.76	8
Middle	-5.01	8
High	-5.33	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-9.07	8
Middle	-10.06	8
High	-11.22	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-7.95	8
Middle	-8.33	8
High	-11.89	8

Test Plots

Main Antenna

802.11b LOW CHANNEL



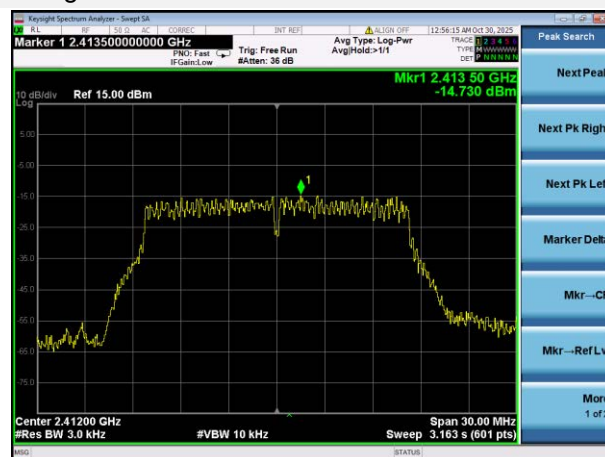
802.11b MIDDLE CHANNEL



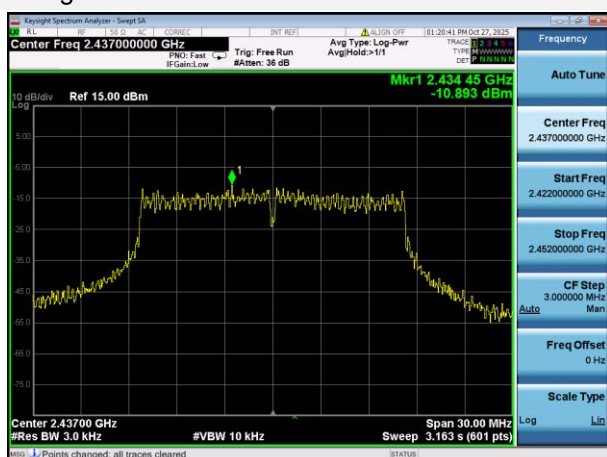
802.11b HIGH CHANNEL



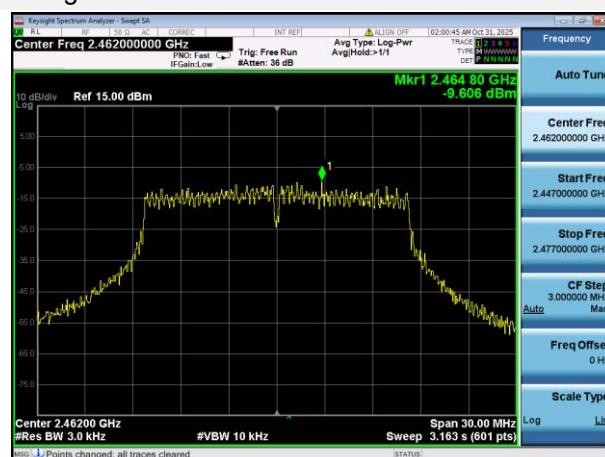
802.11g LOW CHANNEL



802.11g MIDDLE CHANNEL



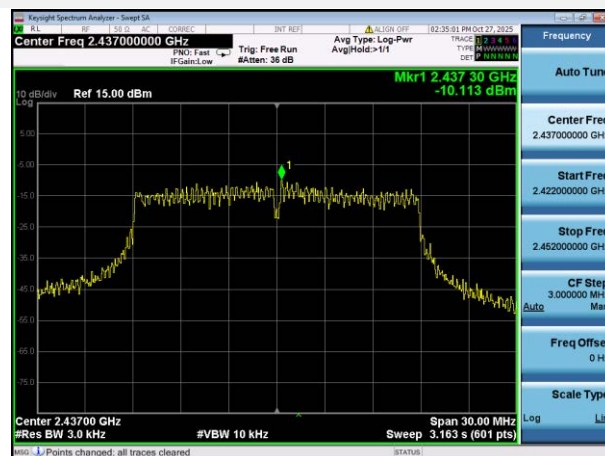
802.11g HIGH CHANNEL



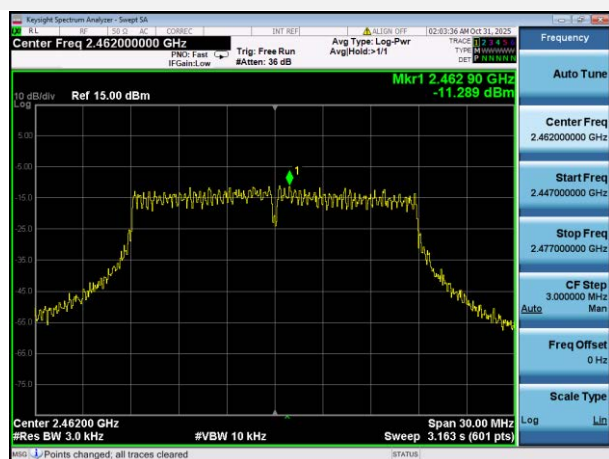
802.11n-20 MHz LOW CHANNEL



802.11 n-20 MHz MIDDLE CHANNEL



802.11n-20 MHz HIGH CHANNEL



Aux. Antenna

802.11b LOW CHANNEL



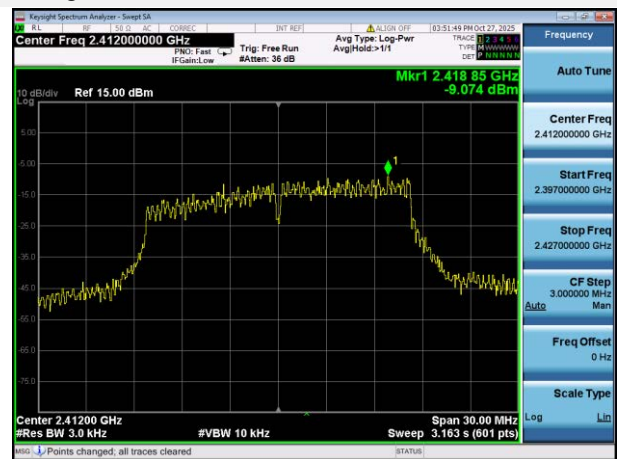
802.11b MIDDLE CHANNEL



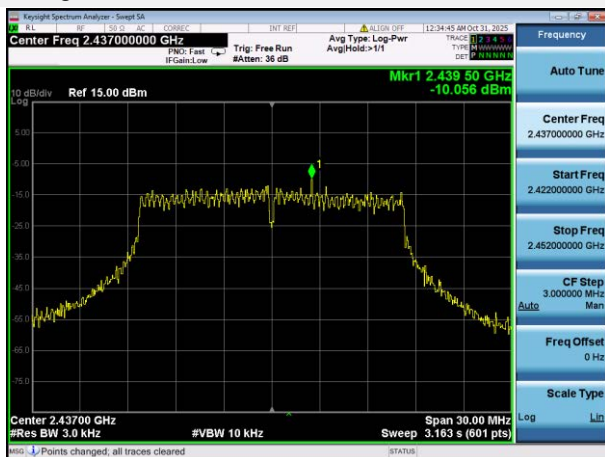
802.11b HIGH CHANNEL



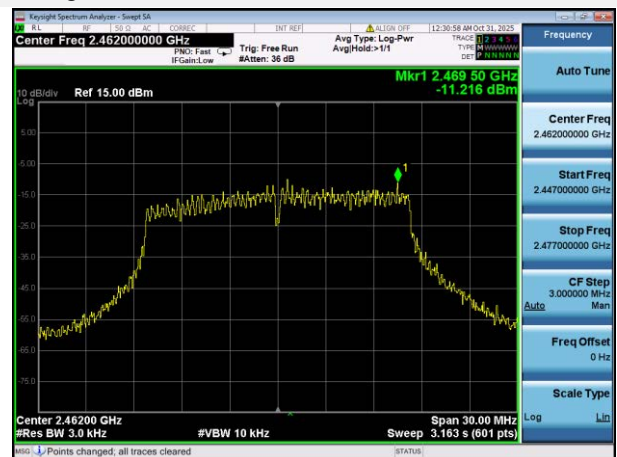
802.11g LOW CHANNEL



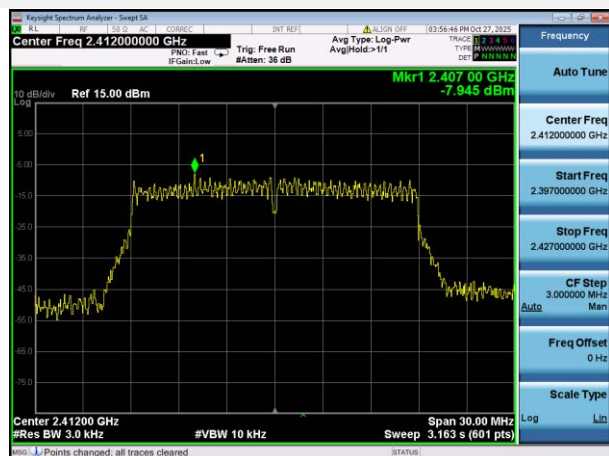
802.11g MIDDLE CHANNEL



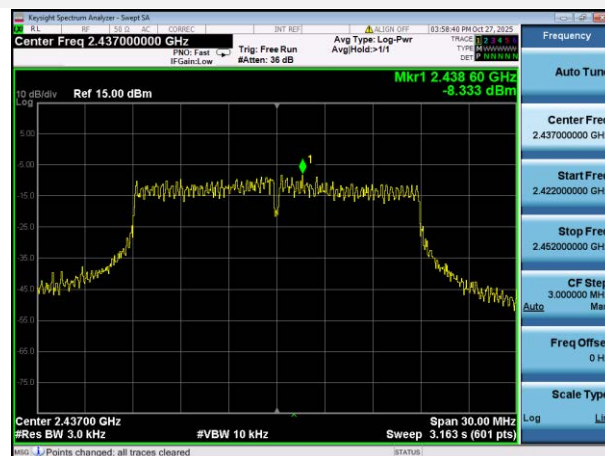
802.11g HIGH CHANNEL



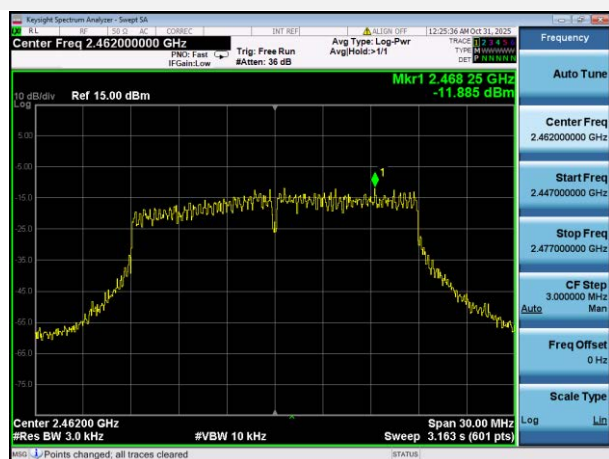
802.11n-20 MHz LOW CHANNEL



802.11 n-20 MHz MIDDLE CHANNEL



802.11n-20 MHz HIGH CHANNEL



ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SH25A1131-AR-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SH25A1131-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SH25A1131-AI.PDF”.

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--END OF REPORT--