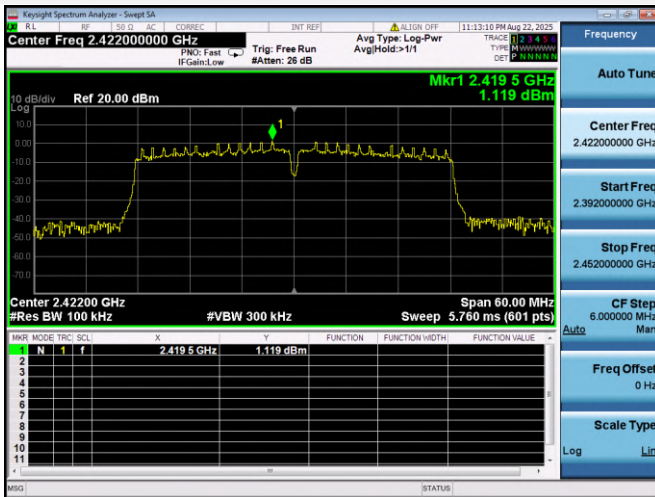
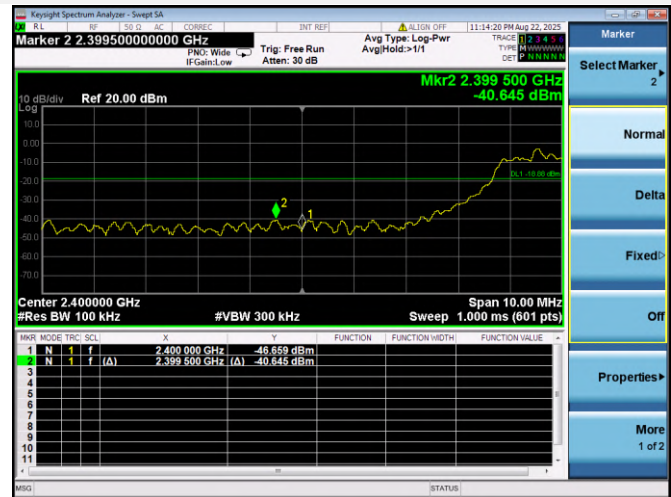


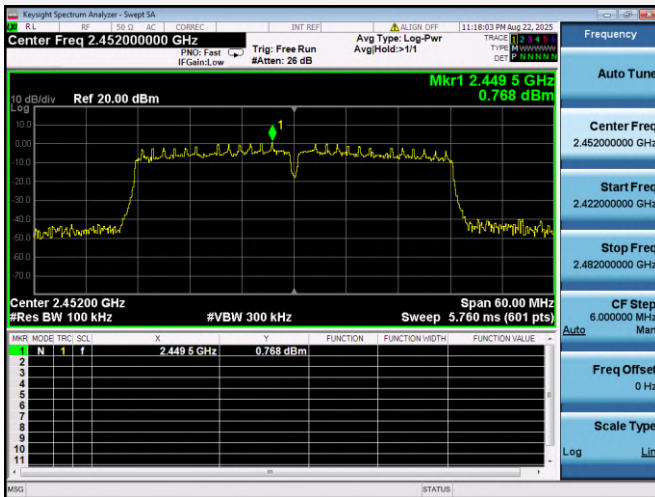
802.11n-40 MHz LOW CHANNEL, CARRIER LEVEL



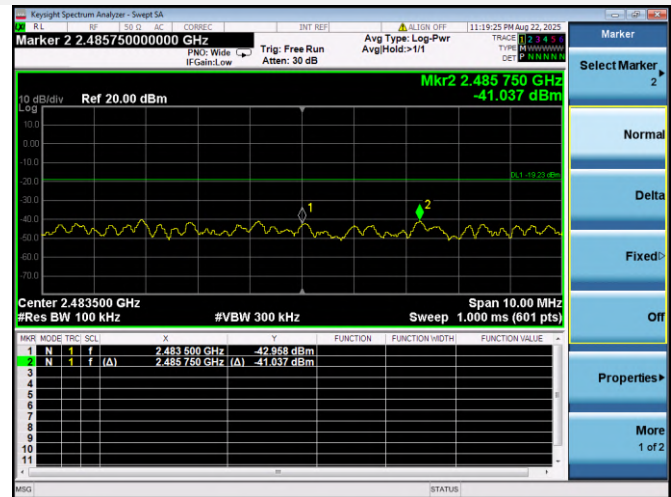
802.11n-40 MHz LOW CHANNEL, BAND EDGE



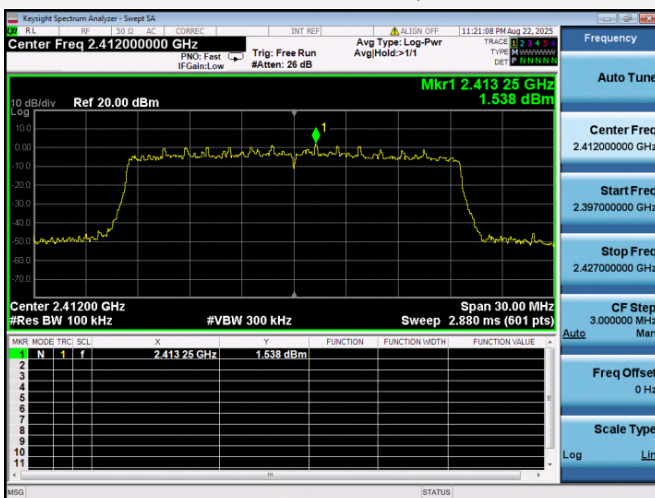
802.11n-40 MHz HIGH CHANNEL, CARRIER LEVEL



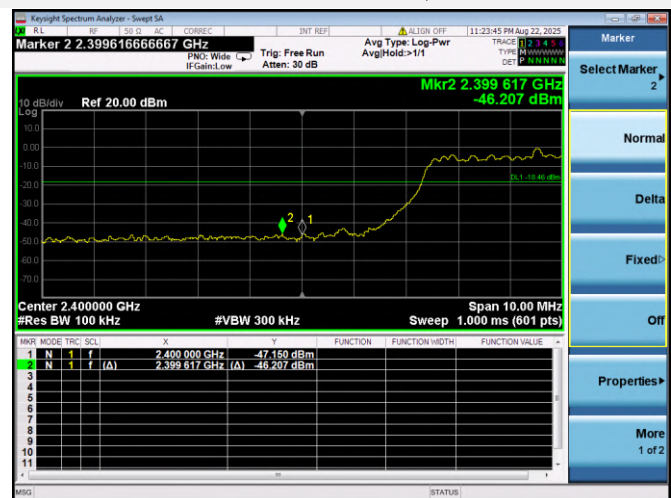
802.11n-40 MHz HIGH CHANNEL, BAND EDGE



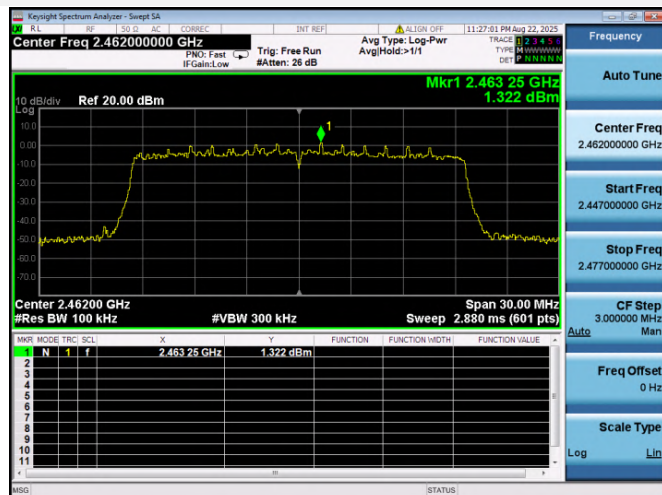
802.11ax-20 MHz LOW CHANNEL, CARRIER LEVEL



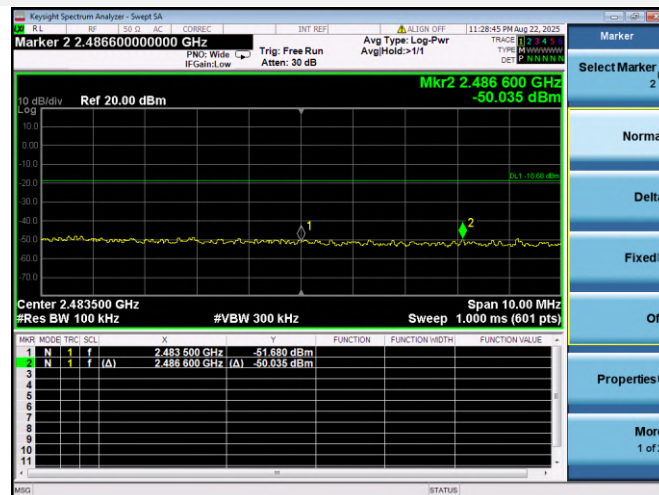
802.11ax-20 MHz LOW CHANNEL, BAND EDGE



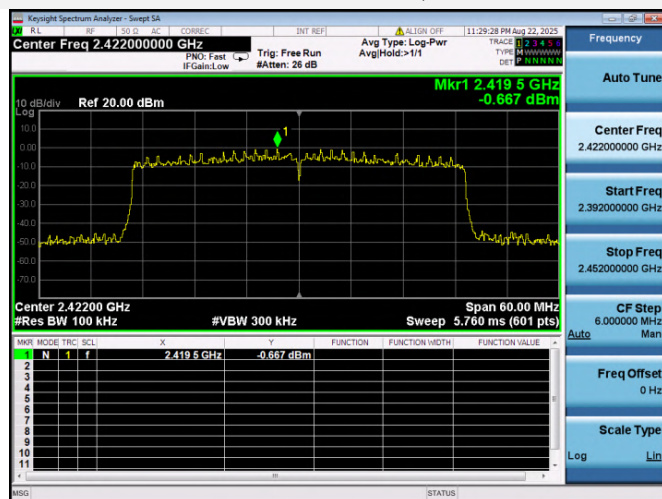
802.11ax-20 MHz HIGH CHANNEL, CARRIER LEVEL



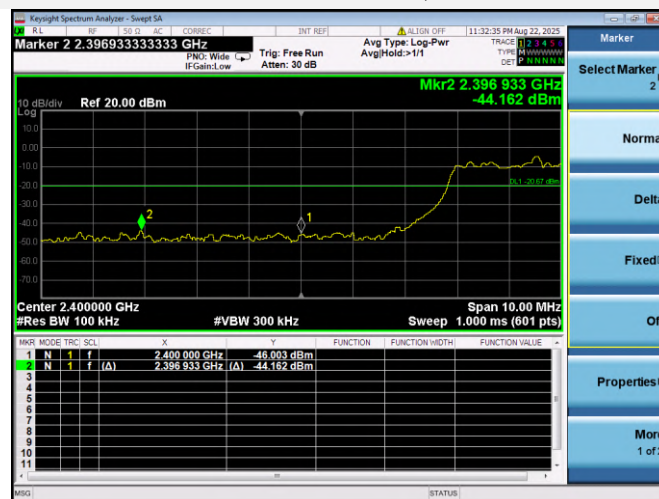
802.11ax-20 MHz HIGH CHANNEL, BAND EDGE



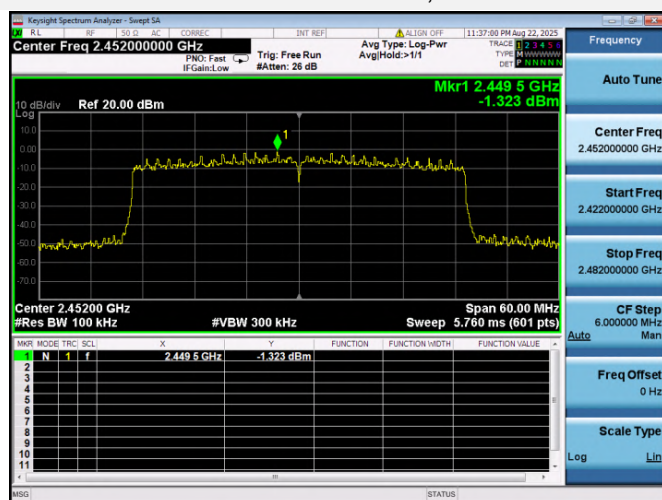
802.11ax-40 MHz LOW CHANNEL, CARRIER LEVEL



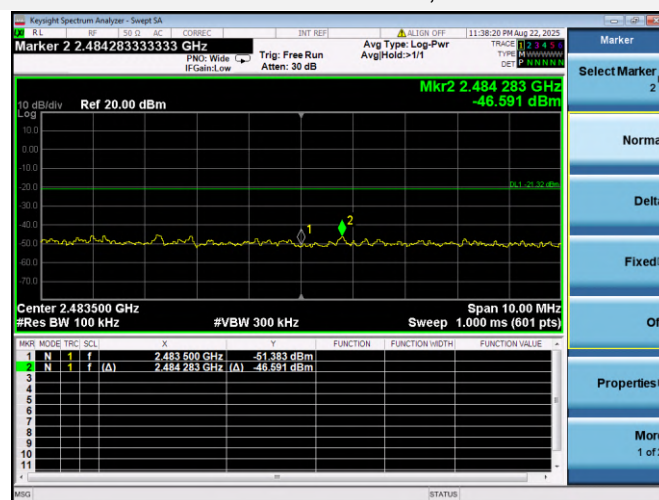
802.11ax-40 MHz LOW CHANNEL, BAND EDGE



802.11ax-40 MHz HIGH CHANNEL, CARRIER LEVEL



802.11ax-40 MHz HIGH CHANNEL, BAND EDGE



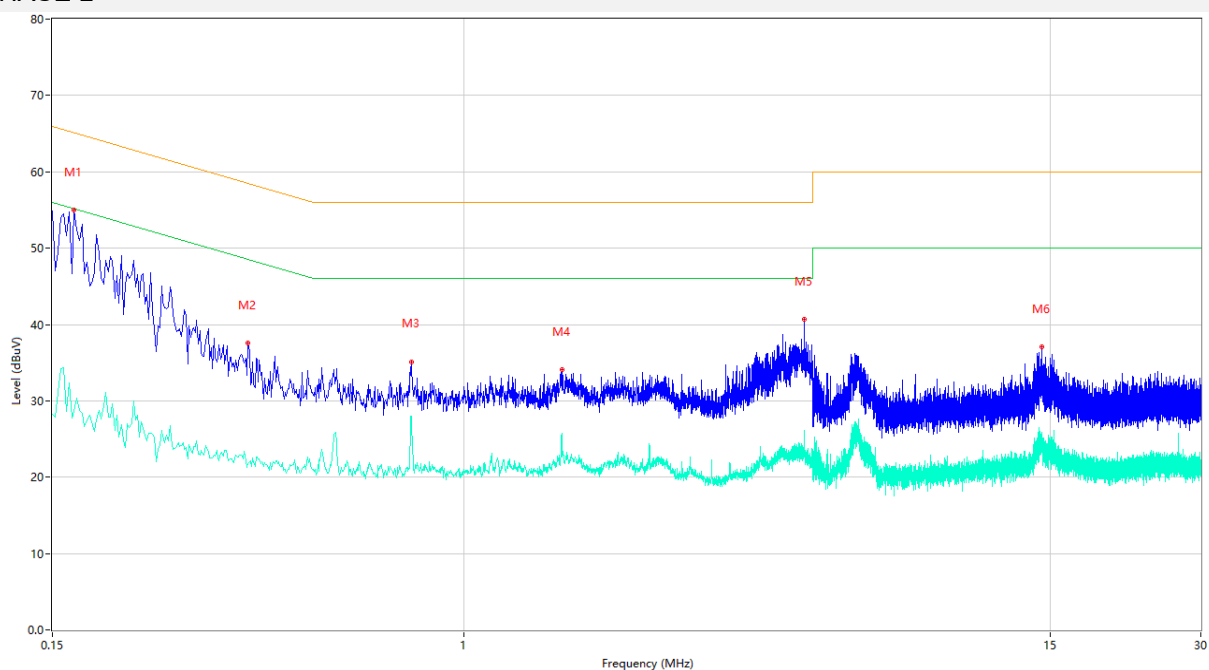
A.5 Conducted Emission

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

Note 2: Results (dBuV) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

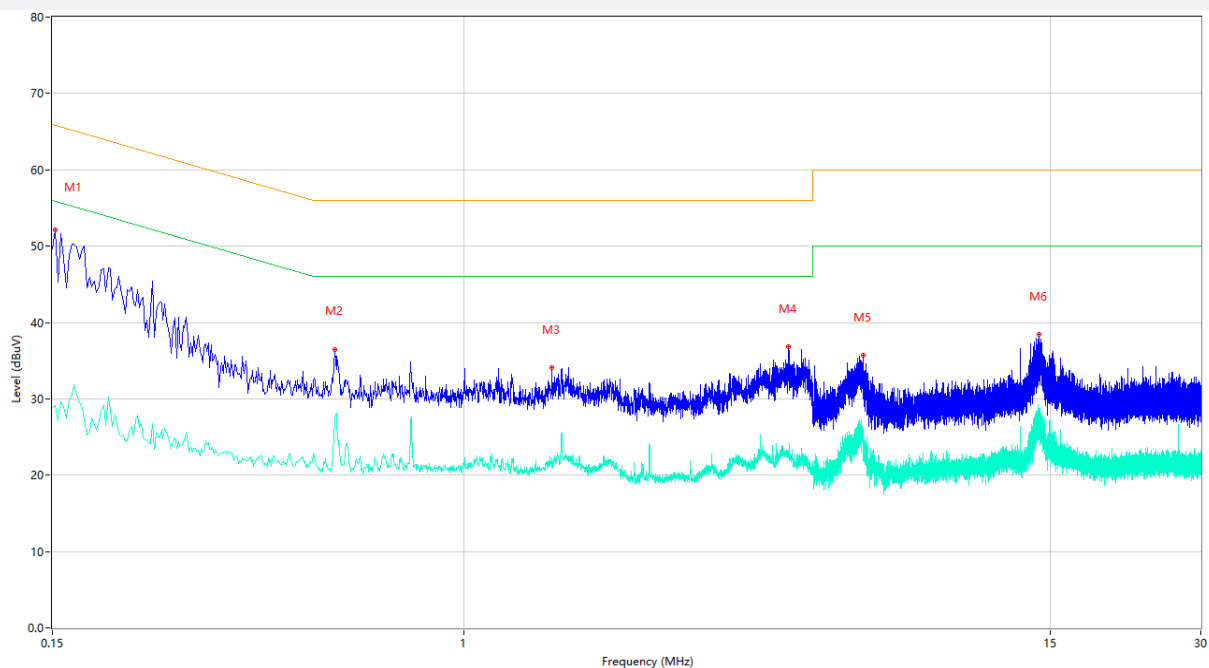
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin(dB)	Detector	Line	Verdict
1	0.166	55.02	10.07	65.16	10.14	Peak	L	Pass
1**	0.166	28.59	10.07	55.16	26.57	AV	L	Pass
2	0.370	37.56	10.13	58.50	20.94	Peak	L	Pass
2**	0.370	21.74	10.13	48.50	26.76	AV	L	Pass
3	0.786	35.15	10.22	56.00	20.85	Peak	L	Pass
3**	0.786	27.97	10.22	46.00	18.03	AV	L	Pass
4	1.572	34.04	10.28	56.00	21.96	Peak	L	Pass
4**	1.572	25.72	10.28	46.00	20.28	AV	L	Pass
5	4.810	40.62	10.44	56.00	15.38	Peak	L	Pass
5**	4.810	24.40	10.44	46.00	21.60	AV	L	Pass
6	14.392	37.10	11.15	60.00	22.90	Peak	L	Pass
6**	14.392	25.04	11.15	50.00	24.96	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin(dB)	Detector	Line	Verdict
1	0.152	52.11	10.15	65.89	13.78	Peak	N	Pass
1**	0.152	29.11	10.15	55.89	26.78	AV	N	Pass
2	0.552	36.51	10.18	56.00	19.49	Peak	N	Pass
2**	0.552	27.32	10.18	46.00	18.68	AV	N	Pass
3	1.502	34.07	10.25	56.00	21.93	Peak	N	Pass
3**	1.502	22.23	10.25	46.00	23.77	AV	N	Pass
4	4.482	36.85	10.41	56.00	19.15	Peak	N	Pass
4**	4.482	22.38	10.41	46.00	23.62	AV	N	Pass
5	6.316	35.70	10.55	60.00	24.30	Peak	N	Pass
5**	6.316	25.11	10.55	50.00	24.89	AV	N	Pass
6	14.244	38.42	11.10	60.00	21.58	Peak	N	Pass
6**	14.244	27.68	11.10	50.00	22.32	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.

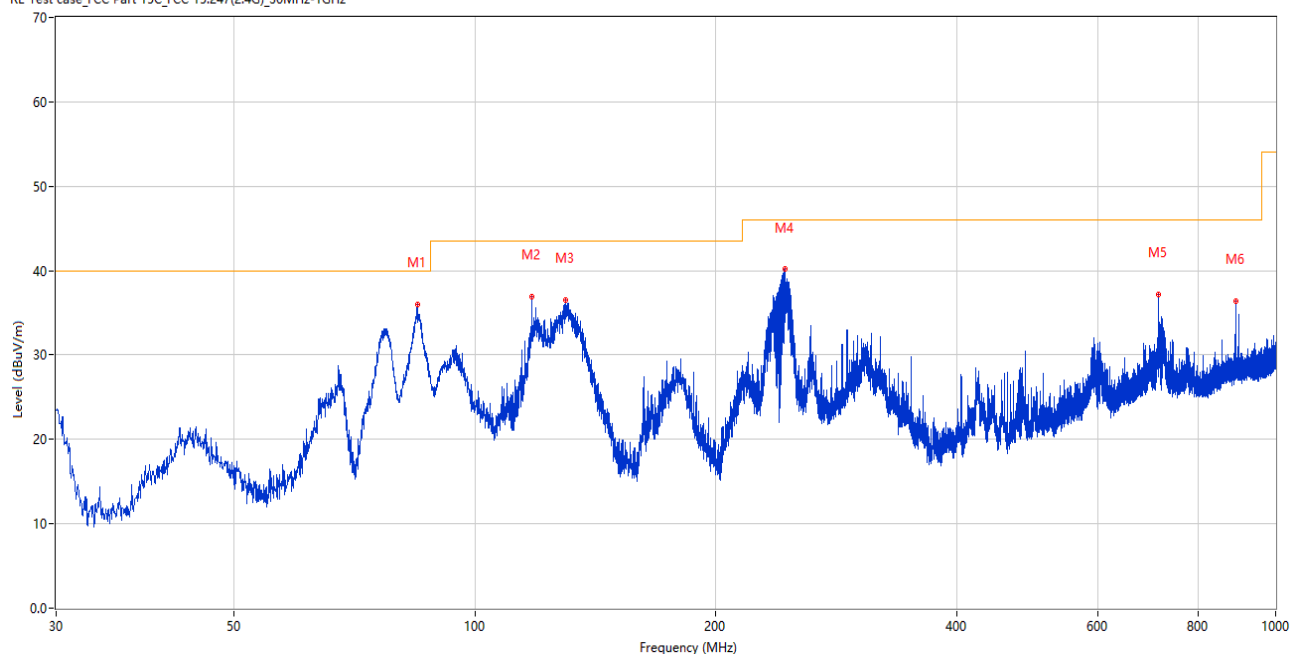
Note 3: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.31(o) was not reported.

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

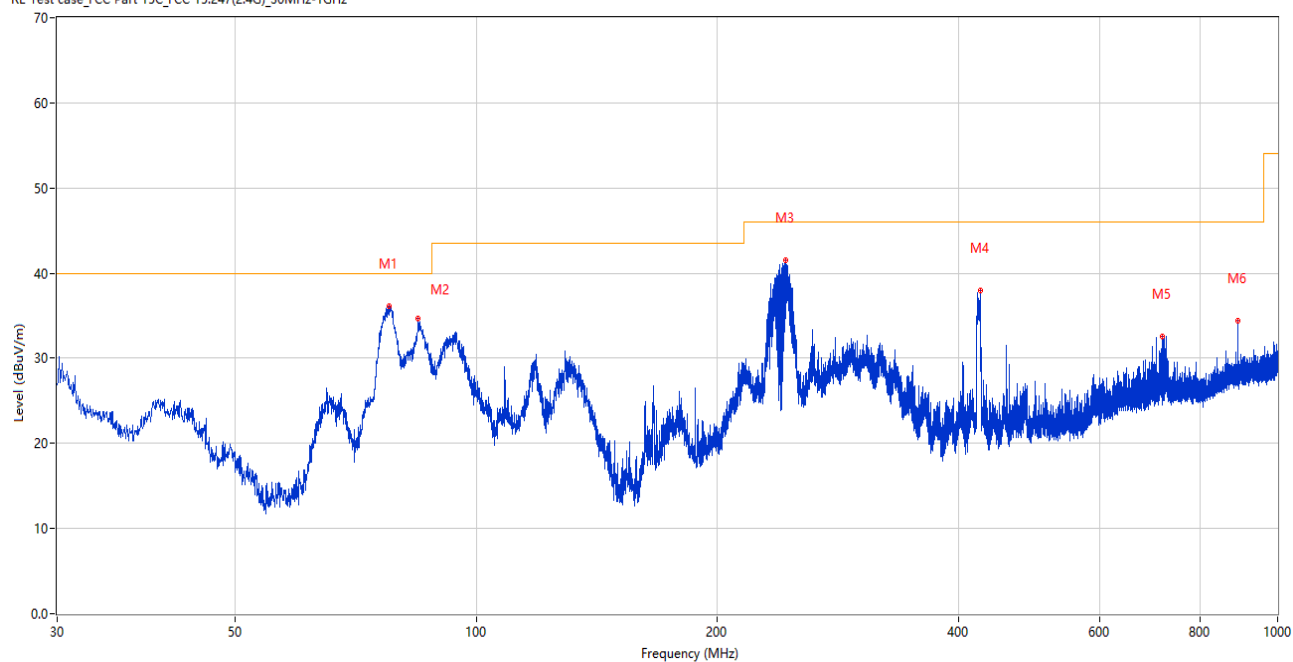
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	84.708	35.96	-29.84	40.0	4.04	Peak	160.00	200	Horizontal	Pass
2	117.737	36.90	-27.80	43.5	6.60	Peak	51.00	200	Horizontal	Pass
3	129.861	36.56	-29.06	43.5	6.94	Peak	102.00	100	Horizontal	Pass
4	243.982	40.15	-24.27	46.0	5.85	Peak	267.00	200	Horizontal	Pass
5	713.219	37.14	-13.53	46.0	8.86	Peak	186.00	100	Horizontal	Pass
6	890.972	36.44	-9.70	46.0	9.56	Peak	21.00	200	Horizontal	Pass

30 MHz to 1 GHz, ANT V

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



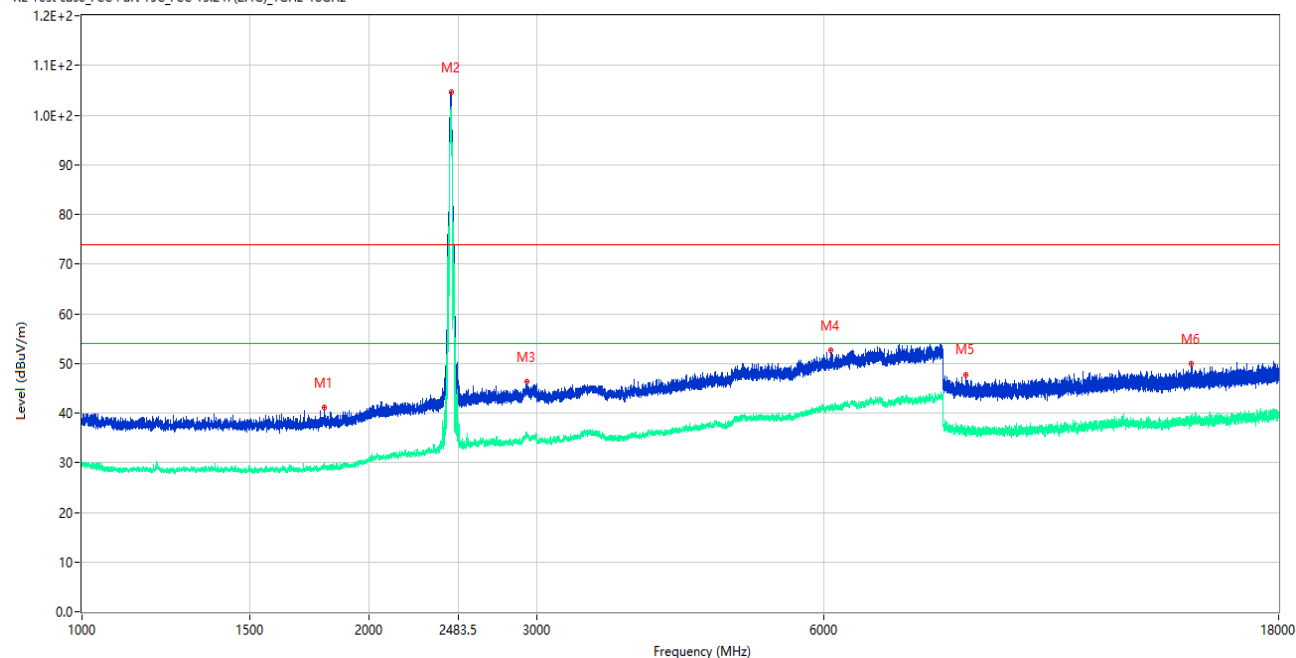
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	77.966	36.15	-30.93	40.0	3.85	Peak	88.00	200	Vertical	Pass
2	84.611	34.68	-29.87	40.0	5.32	Peak	90.00	100	Vertical	Pass
3	243.594	41.51	-24.29	46.0	4.49	Peak	188.00	100	Vertical	Pass
4	425.469	37.99	-19.85	46.0	8.01	Peak	52.00	100	Vertical	Pass
5	718.748	32.59	-13.32	46.0	13.41	Peak	224.00	100	Vertical	Pass
6	891.020	34.38	-9.70	46.0	11.62	Peak	27.00	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.

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

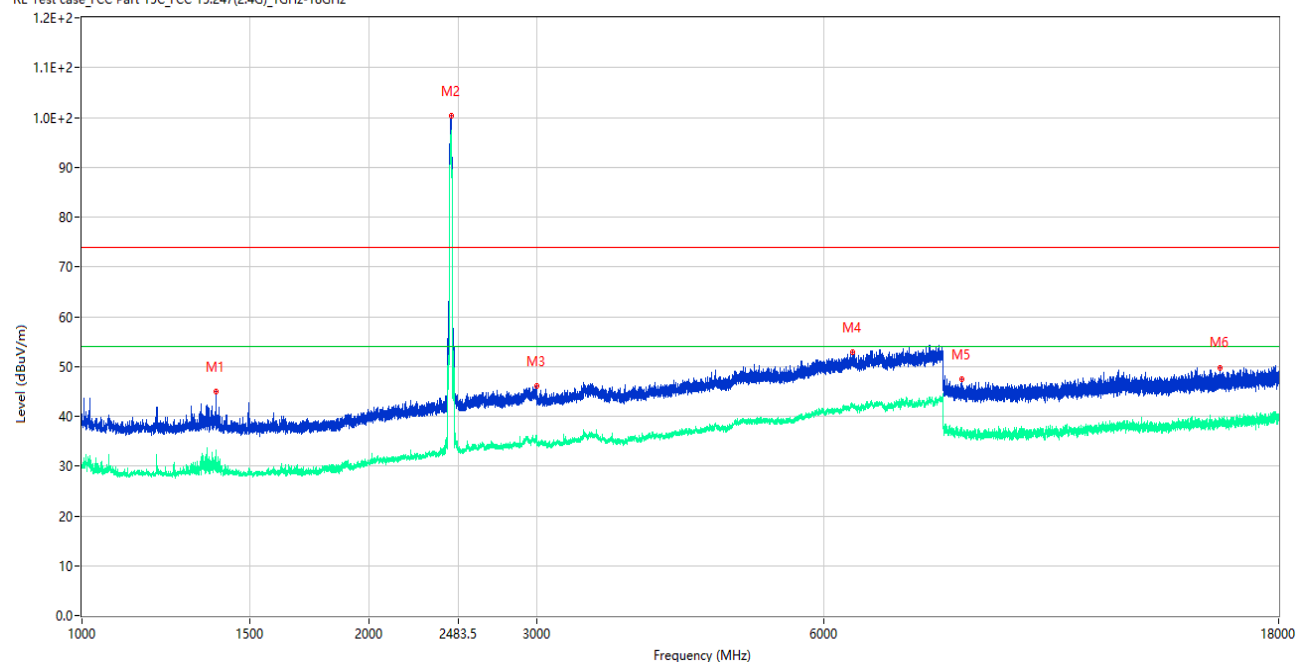
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1797.500	41.18	-15.70	74.0	32.82	Peak	325.00	150	Horizontal	Pass
1**	1797.500	29.21	-15.70	54.0	24.79	AV	325.00	150	Horizontal	Pass
2	2438.250	104.68	-12.38	74.0	-30.68	Peak	212.00	150	Horizontal	N/A
2**	2438.250	101.28	-12.38	54.0	-47.28	AV	212.00	150	Horizontal	N/A
3	2928.250	46.33	-8.00	74.0	27.67	Peak	352.00	150	Horizontal	Pass
3**	2928.250	35.72	-8.00	54.0	18.28	AV	352.00	150	Horizontal	Pass
4	6100.000	52.67	-0.42	74.0	21.33	Peak	39.00	150	Horizontal	Pass
4**	6100.000	40.77	-0.42	54.0	13.23	AV	39.00	150	Horizontal	Pass
5	8463.000	47.61	-4.94	74.0	26.39	Peak	0.00	150	Horizontal	Pass
5**	8463.000	36.18	-4.94	54.0	17.82	AV	0.00	150	Horizontal	Pass
6	14589.500	50.01	-2.27	74.0	23.99	Peak	90.00	150	Horizontal	Pass
6**	14589.500	39.11	-2.27	54.0	14.89	AV	90.00	150	Horizontal	Pass

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

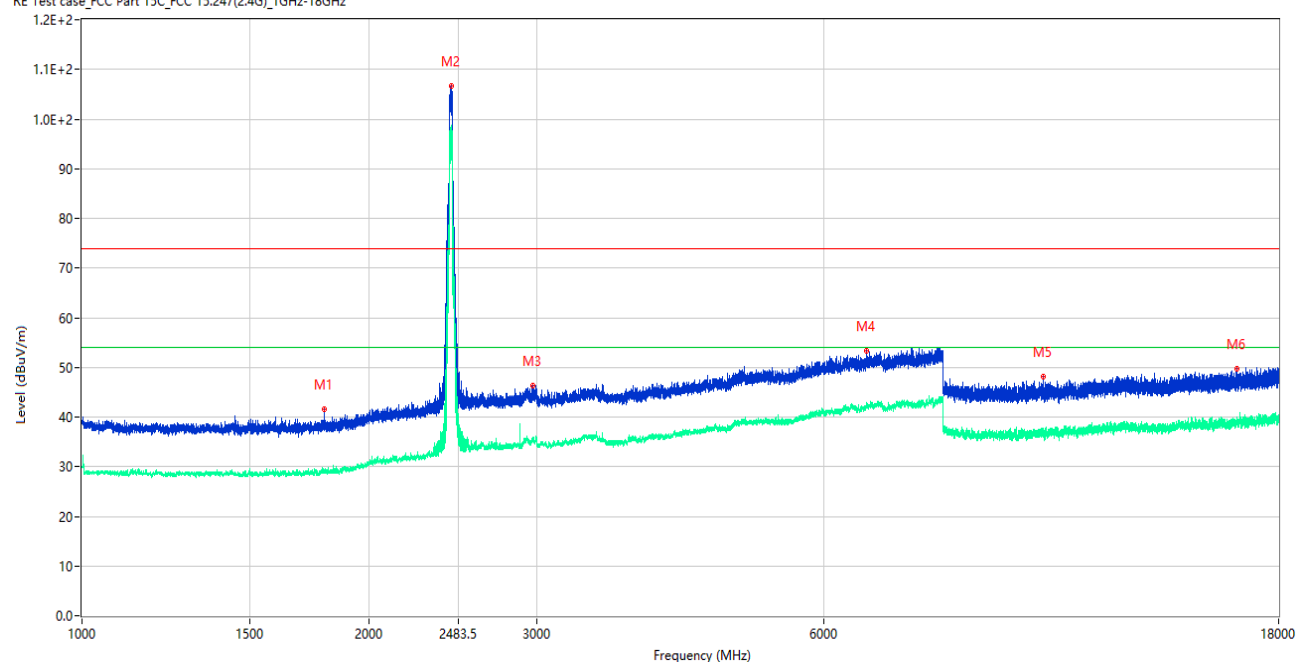
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1382.500	45.03	-15.98	74.0	28.97	Peak	252.00	150	Vertical	Pass
1**	1382.500	29.39	-15.98	54.0	24.61	AV	252.00	150	Vertical	Pass
2	2438.500	100.32	-12.37	74.0	-26.32	Peak	336.00	150	Vertical	N/A
2**	2438.500	97.36	-12.37	54.0	-43.36	AV	336.00	150	Vertical	N/A
3	2996.500	46.15	-8.80	74.0	27.85	Peak	247.00	150	Vertical	Pass
3**	2996.500	35.89	-8.80	54.0	18.11	AV	247.00	150	Vertical	Pass
4	6438.500	52.87	-0.00	74.0	21.13	Peak	163.00	150	Vertical	Pass
4**	6438.500	42.03	-0.00	54.0	11.97	AV	163.00	150	Vertical	Pass
5	8373.000	47.47	-4.42	74.0	26.53	Peak	10.00	150	Vertical	Pass
5**	8373.000	37.00	-4.42	54.0	17.00	AV	10.00	150	Vertical	Pass
6	15628.500	49.82	-1.67	74.0	24.18	Peak	10.00	150	Vertical	Pass
6**	15628.500	39.28	-1.67	54.0	14.72	AV	10.00	150	Vertical	Pass

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

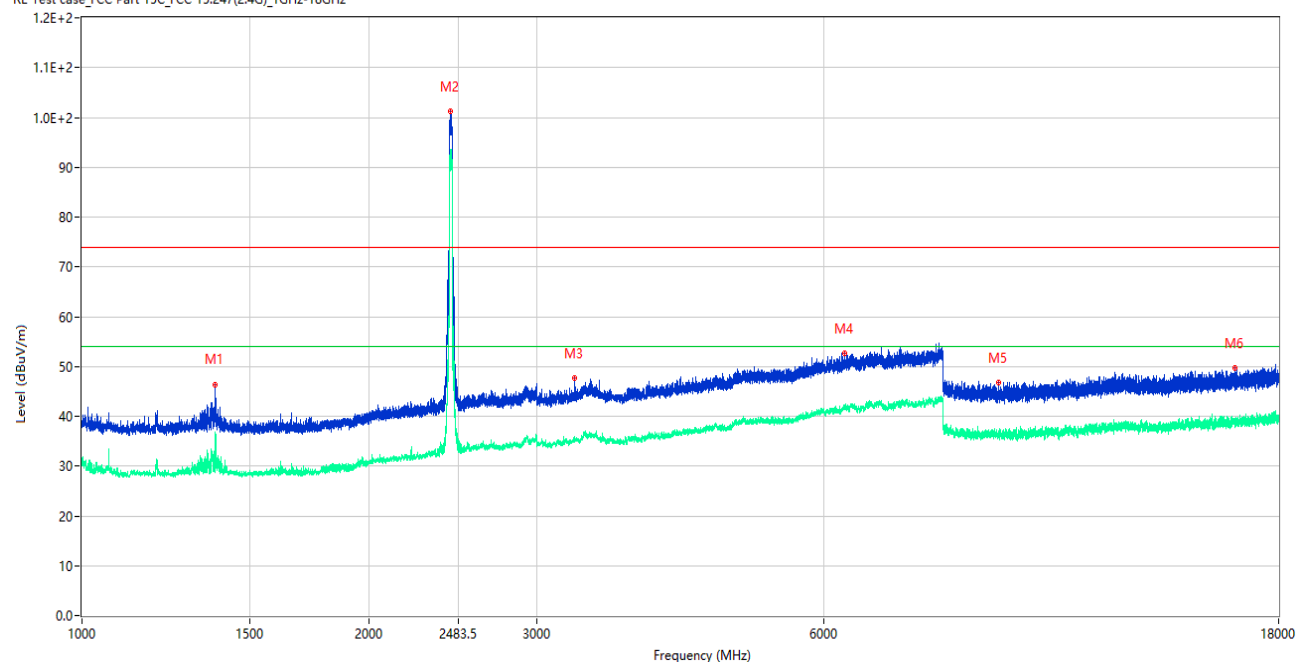
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1796.500	41.50	-15.70	74.0	32.50	Peak	341.00	150	Horizontal	Pass
1**	1796.500	29.06	-15.70	54.0	24.94	AV	341.00	150	Horizontal	Pass
2	2439.750	106.61	-12.37	74.0	-32.61	Peak	148.00	150	Horizontal	N/A
2**	2439.750	97.86	-12.37	54.0	-43.86	AV	148.00	150	Horizontal	N/A
3	2969.750	46.37	-8.41	74.0	27.63	Peak	240.00	150	Horizontal	Pass
3**	2969.750	35.42	-8.41	54.0	18.58	AV	240.00	150	Horizontal	Pass
4	6649.500	53.33	0.24	74.0	20.67	Peak	360.00	150	Horizontal	Pass
4**	6649.500	42.46	0.24	54.0	11.54	AV	360.00	150	Horizontal	Pass
5	10189.500	48.05	-3.60	74.0	25.95	Peak	360.00	150	Horizontal	Pass
5**	10189.500	36.44	-3.60	54.0	17.56	AV	360.00	150	Horizontal	Pass
6	16281.500	49.78	-1.63	74.0	24.22	Peak	68.00	150	Horizontal	Pass
6**	16281.500	38.90	-1.63	54.0	15.10	AV	68.00	150	Horizontal	Pass

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

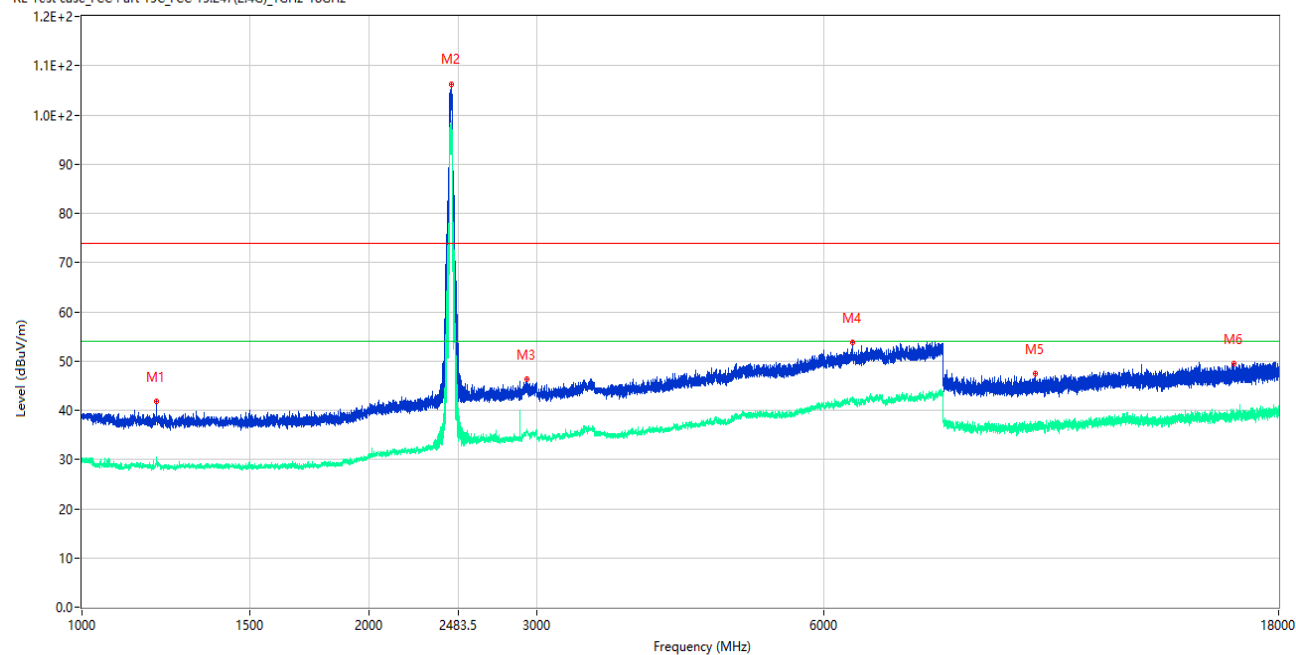
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1380.000	46.43	-15.99	74.0	27.57	Peak	237.00	150	Vertical	Pass
1**	1380.000	30.73	-15.99	54.0	23.27	AV	237.00	150	Vertical	Pass
2	2435.250	101.25	-12.29	74.0	-27.25	Peak	338.00	150	Vertical	N/A
2**	2435.250	91.56	-12.29	54.0	-37.56	AV	338.00	150	Vertical	N/A
3	3289.000	47.69	-6.76	74.0	26.31	Peak	222.00	150	Vertical	Pass
3**	3289.000	35.05	-6.76	54.0	18.95	AV	222.00	150	Vertical	Pass
4	6307.500	52.65	0.06	74.0	21.35	Peak	111.00	150	Vertical	Pass
4**	6307.500	41.64	0.06	54.0	12.36	AV	111.00	150	Vertical	Pass
5	9153.500	46.77	-5.35	74.0	27.23	Peak	292.00	150	Vertical	Pass
5**	9153.500	36.44	-5.35	54.0	17.56	AV	292.00	150	Vertical	Pass
6	16212.500	49.61	-1.12	74.0	24.39	Peak	0.00	150	Vertical	Pass
6**	16212.500	38.57	-1.12	54.0	15.43	AV	0.00	150	Vertical	Pass

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

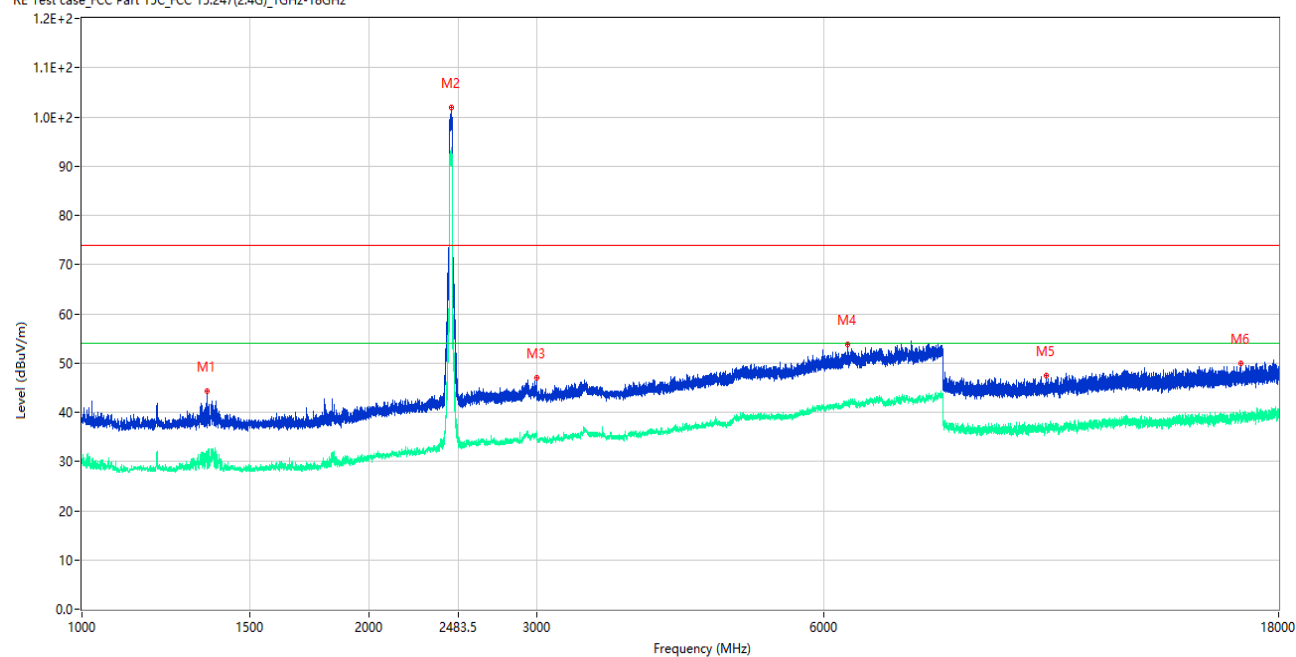
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1198.000	41.72	-15.73	74.0	32.28	Peak	305.00	150	Horizontal	Pass
1**	1198.000	28.85	-15.73	54.0	25.15	AV	305.00	150	Horizontal	Pass
2	2439.250	106.31	-12.37	74.0	-32.31	Peak	150.00	150	Horizontal	N/A
2**	2439.250	97.92	-12.37	54.0	-43.92	AV	150.00	150	Horizontal	N/A
3	2929.750	46.23	-7.95	74.0	27.77	Peak	242.00	150	Horizontal	Pass
3**	2929.750	35.59	-7.95	54.0	18.41	AV	242.00	150	Horizontal	Pass
4	6435.000	53.79	0.07	74.0	20.21	Peak	227.00	150	Horizontal	Pass
4**	6435.000	42.27	0.07	54.0	11.73	AV	227.00	150	Horizontal	Pass
5	9995.000	47.42	-3.88	74.0	26.58	Peak	360.00	150	Horizontal	Pass
5**	9995.000	37.12	-3.88	54.0	16.88	AV	360.00	150	Horizontal	Pass
6	16140.000	49.46	-1.42	74.0	24.54	Peak	33.00	150	Horizontal	Pass
6**	16140.000	38.66	-1.42	54.0	15.34	AV	33.00	150	Horizontal	Pass

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

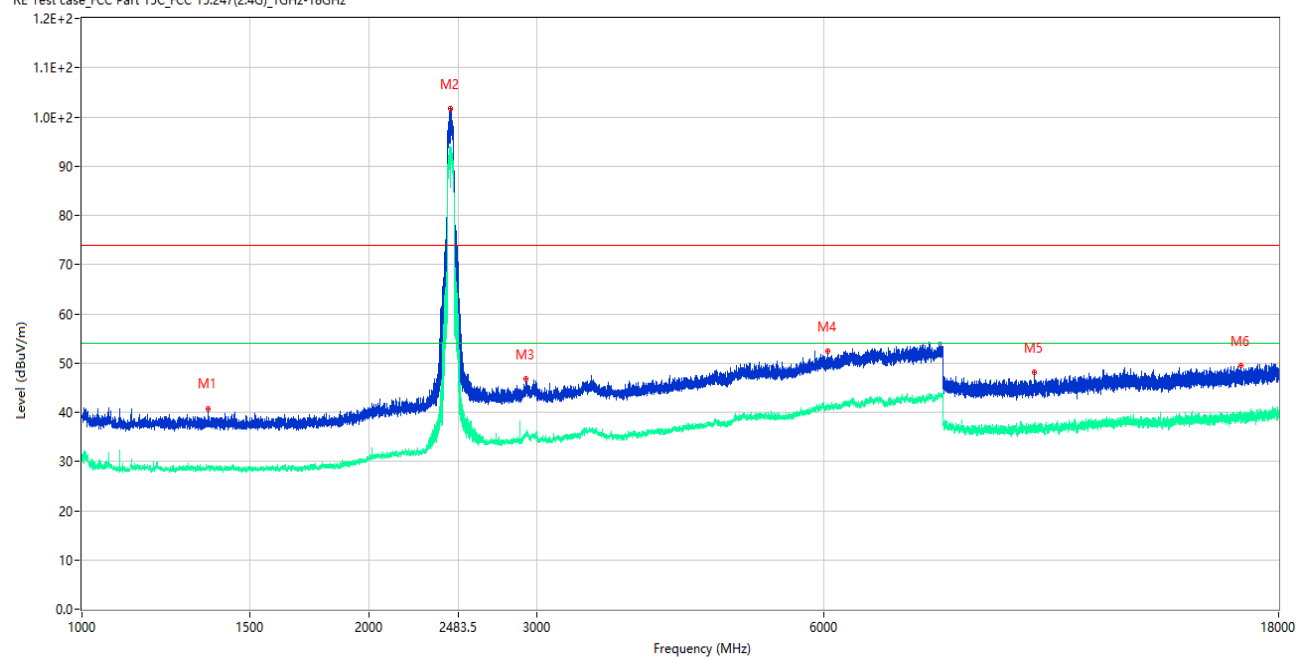
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1353.750	44.22	-15.89	74.0	29.78	Peak	243.00	150	Vertical	Pass
1**	1353.750	31.13	-15.89	54.0	22.87	AV	243.00	150	Vertical	Pass
2	2439.250	101.91	-12.37	74.0	-27.91	Peak	340.00	150	Vertical	N/A
2**	2439.250	92.29	-12.37	54.0	-38.29	AV	340.00	150	Vertical	N/A
3	2996.750	47.04	-8.79	74.0	26.96	Peak	229.00	150	Vertical	Pass
3**	2996.750	35.64	-8.79	54.0	18.36	AV	229.00	150	Vertical	Pass
4	6355.500	53.74	-0.42	74.0	20.26	Peak	302.00	150	Vertical	Pass
4**	6355.500	41.78	-0.42	54.0	12.22	AV	302.00	150	Vertical	Pass
5	10269.000	47.38	-2.95	74.0	26.62	Peak	0.00	150	Vertical	Pass
5**	10269.000	37.30	-2.95	54.0	16.70	AV	0.00	150	Vertical	Pass
6	16416.000	49.85	-1.69	74.0	24.15	Peak	66.00	150	Vertical	Pass
6**	16416.000	39.24	-1.69	54.0	14.76	AV	66.00	150	Vertical	Pass

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

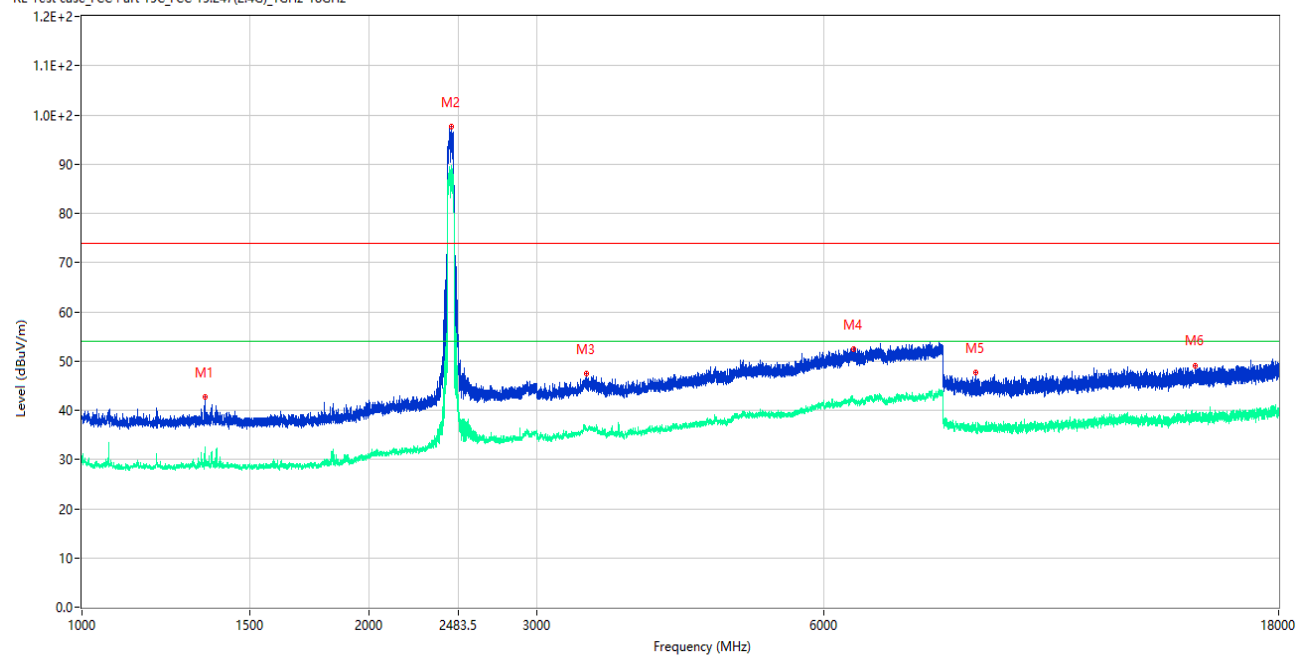
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1357.250	40.78	-15.83	74.0	33.22	Peak	291.00	150	Horizontal	Pass
1**	1357.250	29.06	-15.83	54.0	24.94	AV	291.00	150	Horizontal	Pass
2	2435.500	101.63	-12.31	74.0	-27.63	Peak	160.00	150	Horizontal	N/A
2**	2435.500	93.73	-12.31	54.0	-39.73	AV	160.00	150	Horizontal	N/A
3	2919.750	46.77	-8.65	74.0	27.23	Peak	221.00	150	Horizontal	Pass
3**	2919.750	35.29	-8.65	54.0	18.71	AV	221.00	150	Horizontal	Pass
4	6064.500	52.39	-0.33	74.0	21.61	Peak	329.00	150	Horizontal	Pass
4**	6064.500	41.15	-0.33	54.0	12.85	AV	329.00	150	Horizontal	Pass
5	9982.500	48.03	-3.67	74.0	25.97	Peak	152.00	150	Horizontal	Pass
5**	9982.500	36.59	-3.67	54.0	17.41	AV	152.00	150	Horizontal	Pass
6	16414.000	49.52	-1.58	74.0	24.48	Peak	360.00	150	Horizontal	Pass
6**	16414.000	40.30	-1.58	54.0	13.70	AV	360.00	150	Horizontal	Pass

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

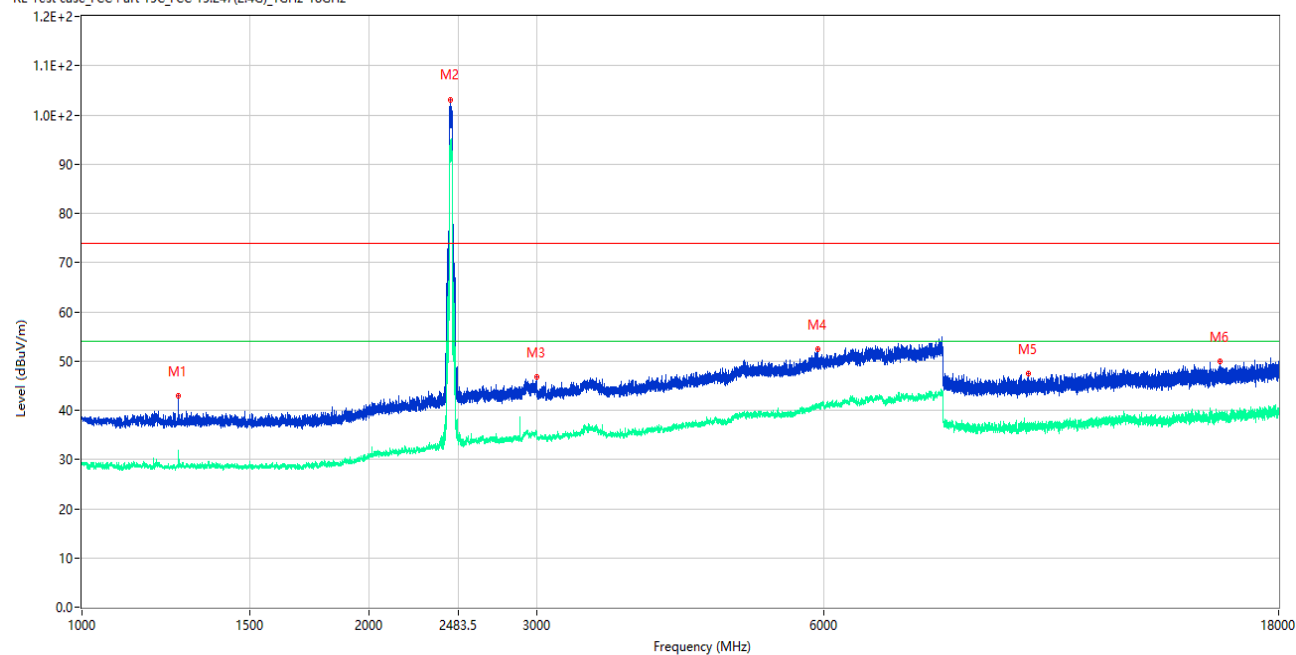
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1345.000	42.65	-16.08	74.0	31.35	Peak	255.00	150	Vertical	Pass
1**	1345.000	30.27	-16.08	54.0	23.73	AV	255.00	150	Vertical	Pass
2	2441.250	97.59	-12.40	74.0	-23.59	Peak	301.00	150	Vertical	N/A
2**	2441.250	89.60	-12.40	54.0	-35.60	AV	301.00	150	Vertical	N/A
3	3381.000	47.39	-5.16	74.0	26.61	Peak	359.00	150	Vertical	Pass
3**	3381.000	36.16	-5.16	54.0	17.84	AV	359.00	150	Vertical	Pass
4	6443.000	52.50	-0.03	74.0	21.50	Peak	0.00	150	Vertical	Pass
4**	6443.000	42.02	-0.03	54.0	11.98	AV	0.00	150	Vertical	Pass
5	8654.500	47.67	-5.58	74.0	26.33	Peak	349.00	150	Vertical	Pass
5**	8654.500	36.30	-5.58	54.0	17.70	AV	349.00	150	Vertical	Pass
6	14726.500	49.13	-1.52	74.0	24.87	Peak	33.00	150	Vertical	Pass
6**	14726.500	38.87	-1.52	54.0	15.13	AV	33.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11ax20(SU) Middle Channel

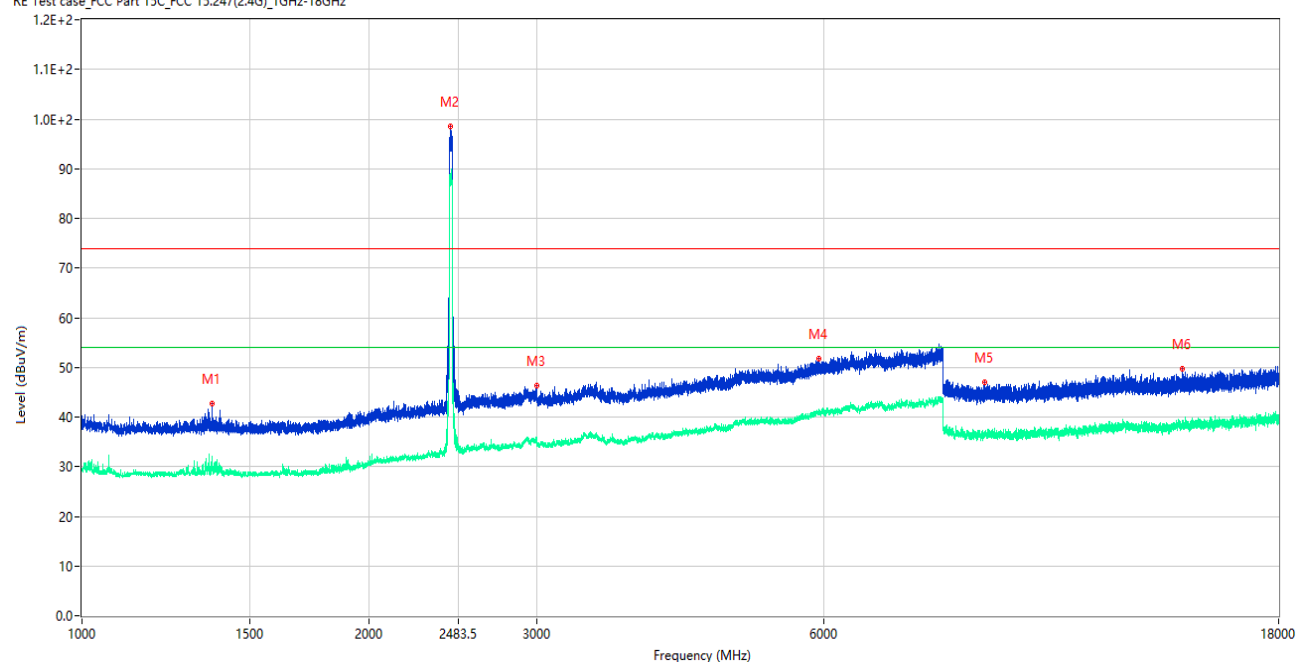
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1263.000	43.00	-15.99	74.0	31.00	Peak	318.00	150	Horizontal	Pass
1**	1263.000	31.21	-15.99	54.0	22.79	AV	318.00	150	Horizontal	Pass
2	2434.000	103.14	-12.32	74.0	-29.14	Peak	156.00	150	Horizontal	N/A
2**	2434.000	94.50	-12.32	54.0	-40.50	AV	156.00	150	Horizontal	N/A
3	2997.250	46.79	-8.79	74.0	27.21	Peak	277.00	150	Horizontal	Pass
3**	2997.250	35.80	-8.79	54.0	18.20	AV	277.00	150	Horizontal	Pass
4	5911.000	52.41	-0.37	74.0	21.59	Peak	132.00	150	Horizontal	Pass
4**	5911.000	40.49	-0.37	54.0	13.51	AV	132.00	150	Horizontal	Pass
5	9828.000	47.40	-3.94	74.0	26.60	Peak	265.00	150	Horizontal	Pass
5**	9828.000	36.29	-3.94	54.0	17.71	AV	265.00	150	Horizontal	Pass
6	15625.000	50.02	-1.57	74.0	23.98	Peak	236.00	150	Horizontal	Pass
6**	15625.000	39.40	-1.57	54.0	14.60	AV	236.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11ax20(SU) Middle Channel

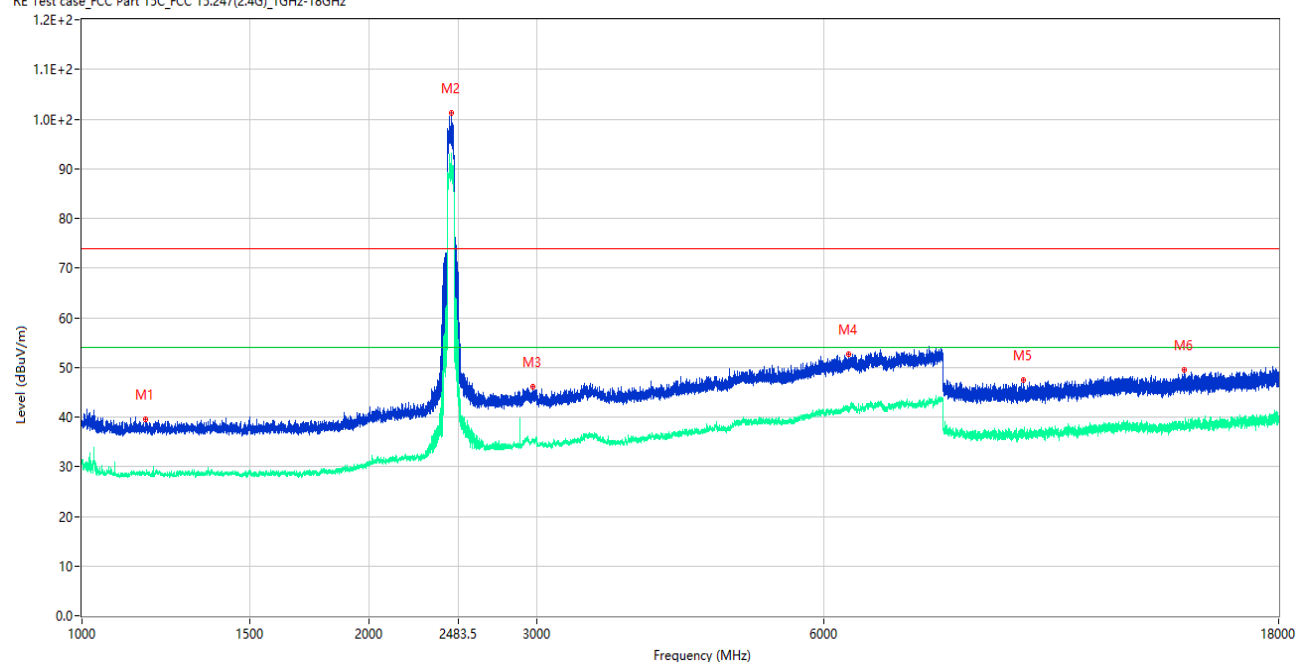
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1368.000	42.74	-15.89	74.0	31.26	Peak	261.00	150	Vertical	Pass
1**	1368.000	30.28	-15.89	54.0	23.72	AV	261.00	150	Vertical	Pass
2	2436.750	98.60	-12.36	74.0	-24.60	Peak	0.00	150	Vertical	N/A
2**	2436.750	88.17	-12.36	54.0	-34.17	AV	0.00	150	Vertical	N/A
3	2999.000	46.41	-8.75	74.0	27.59	Peak	233.00	150	Vertical	Pass
3**	2999.000	35.96	-8.75	54.0	18.04	AV	233.00	150	Vertical	Pass
4	5932.000	51.83	0.05	74.0	22.17	Peak	8.00	150	Vertical	Pass
4**	5932.000	40.92	0.05	54.0	13.08	AV	8.00	150	Vertical	Pass
5	8843.000	47.02	-4.61	74.0	26.98	Peak	0.00	150	Vertical	Pass
5**	8843.000	36.07	-4.61	54.0	17.93	AV	0.00	150	Vertical	Pass
6	14267.500	49.70	-2.32	74.0	24.30	Peak	359.00	150	Vertical	Pass
6**	14267.500	39.31	-2.32	54.0	14.69	AV	359.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 802.11ax40(SU) Middle Channel

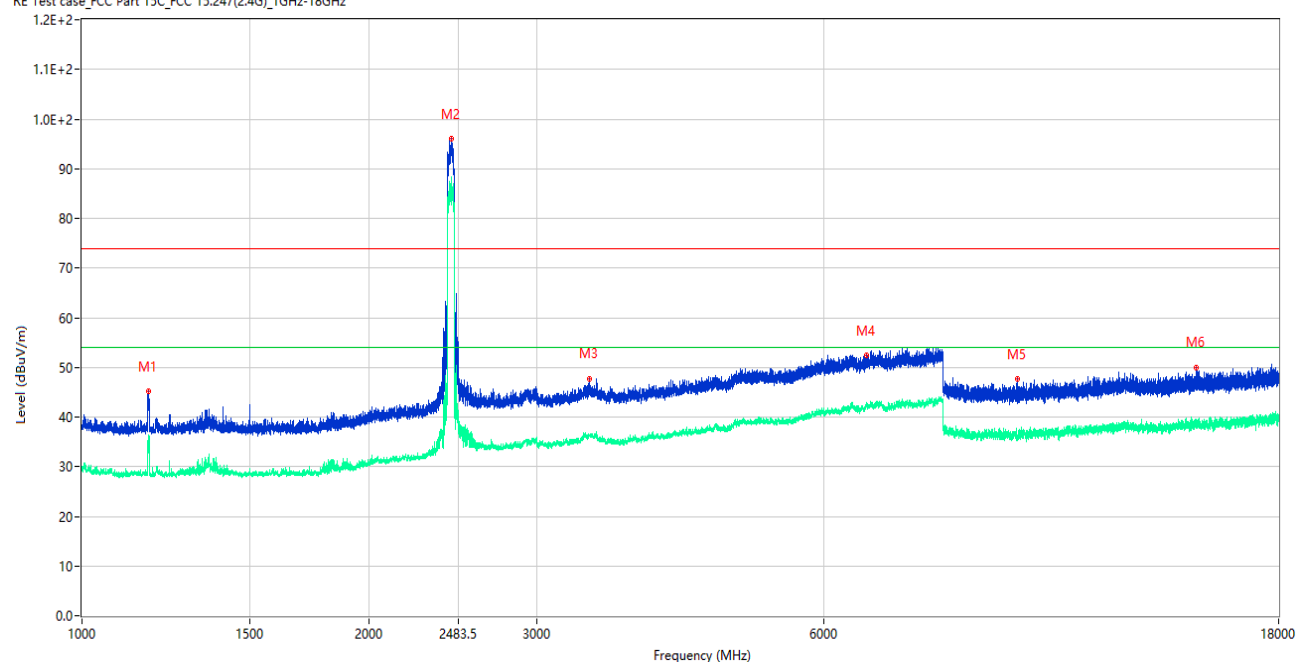
RE Test case_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1167.000	39.54	-15.46	74.0	34.46	Peak	0.00	150	Horizontal	Pass
1**	1167.000	28.57	-15.46	54.0	25.43	AV	0.00	150	Horizontal	Pass
2	2442.000	101.17	-12.43	74.0	-27.17	Peak	133.00	150	Horizontal	N/A
2**	2442.000	91.51	-12.43	54.0	-37.51	AV	133.00	150	Horizontal	N/A
3	2969.750	46.07	-8.41	74.0	27.93	Peak	0.00	150	Horizontal	Pass
3**	2969.750	35.75	-8.41	54.0	18.25	AV	0.00	150	Horizontal	Pass
4	6374.000	52.60	-0.27	74.0	21.40	Peak	360.00	150	Horizontal	Pass
4**	6374.000	41.40	-0.27	54.0	12.60	AV	360.00	150	Horizontal	Pass
5	9706.500	47.35	-3.51	74.0	26.65	Peak	0.00	150	Horizontal	Pass
5**	9706.500	37.07	-3.51	54.0	16.93	AV	0.00	150	Horizontal	Pass
6	14327.500	49.44	-2.16	74.0	24.56	Peak	298.00	150	Horizontal	Pass
6**	14327.500	37.97	-2.16	54.0	16.03	AV	298.00	150	Horizontal	Pass

1 GHz to 18 GHz, ANT V 802.11ax40(SU) 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	1174.250	45.25	-15.62	74.0	28.75	Peak	282.00	150	Vertical	Pass
1**	1174.250	35.28	-15.62	54.0	18.72	AV	282.00	150	Vertical	Pass
2	2438.750	96.01	-12.37	74.0	-22.01	Peak	301.00	150	Vertical	N/A
2**	2438.750	87.22	-12.37	54.0	-33.22	AV	301.00	150	Vertical	N/A
3	3409.500	47.77	-5.34	74.0	26.23	Peak	78.00	150	Vertical	Pass
3**	3409.500	36.08	-5.34	54.0	17.92	AV	78.00	150	Vertical	Pass
4	6653.500	52.45	0.16	74.0	21.55	Peak	254.00	150	Vertical	Pass
4**	6653.500	42.59	0.16	54.0	11.41	AV	254.00	150	Vertical	Pass
5	9588.500	47.64	-3.54	74.0	26.36	Peak	178.00	150	Vertical	Pass
5**	9588.500	35.73	-3.54	54.0	18.27	AV	178.00	150	Vertical	Pass
6	14736.000	50.05	-1.92	74.0	23.95	Peak	360.00	150	Vertical	Pass
6**	14736.000	38.81	-1.92	54.0	15.19	AV	360.00	150	Vertical	Pass

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

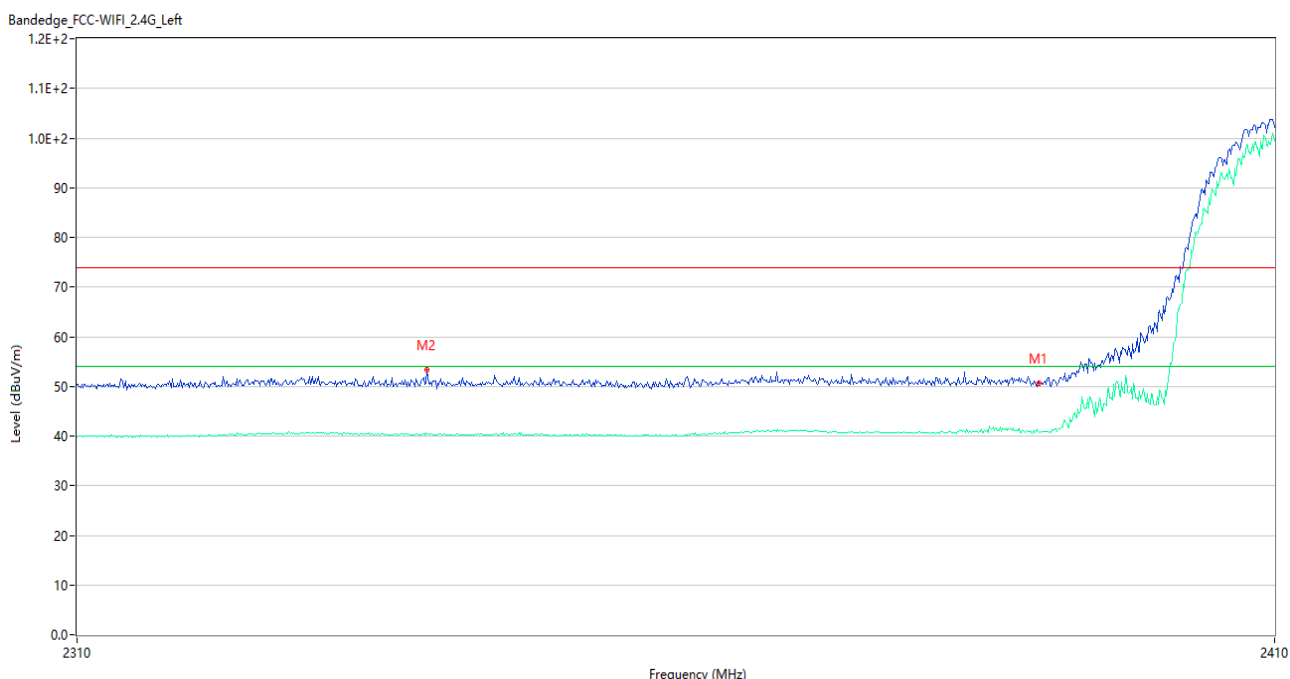
Note 1: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

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

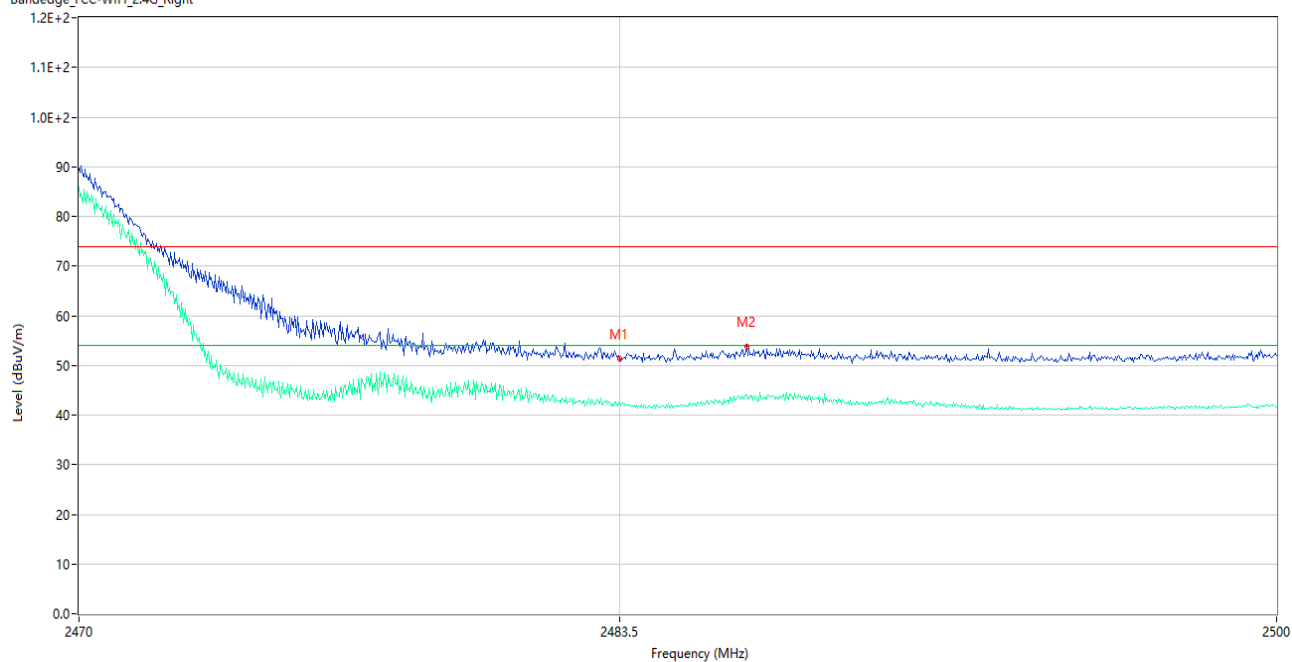
802.11b LOW CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	50.62	-4.87	74.0	23.38	Peak	234.73	150	Horizontal	Pass
1**	2390.000	40.68	-4.87	54.0	13.32	AV	234.73	150	Horizontal	Pass
2	2338.800	53.43	-4.30	74.0	20.57	Peak	360.00	150	Horizontal	Pass
2**	2338.800	40.27	-4.30	54.0	13.73	AV	360.00	150	Horizontal	Pass

802.11b HIGH CHANNEL

Bandedge_FCC-WIFI_2.4G_Right



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	51.38	-3.78	74.0	22.62	Peak	156.00	150	Horizontal	Pass
1**	2483.500	42.02	-3.78	54.0	11.98	AV	156.00	150	Horizontal	Pass
2	2486.680	53.75	-3.79	74.0	20.25	Peak	309.00	150	Horizontal	Pass
2**	2486.680	44.11	-3.79	54.0	9.89	AV	309.00	150	Horizontal	Pass

802.11g LOW CHANNEL

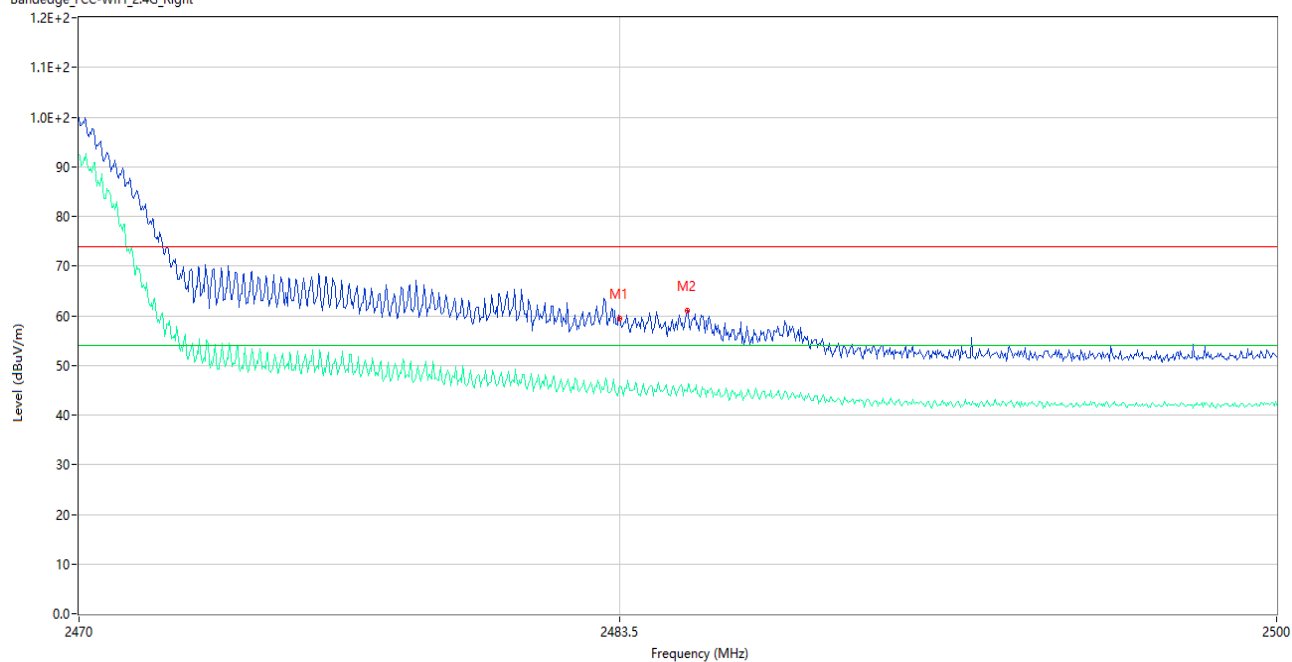
Bandedge_FCC-WIFI_2.4G_Left



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	63.27	-4.87	74.0	10.73	Peak	135.00	150	Horizontal	Pass
1**	2390.000	46.64	-4.87	54.0	7.36	AV	135.00	150	Horizontal	Pass
2	2389.200	62.29	-4.83	74.0	11.71	Peak	137.00	150	Horizontal	Pass
2**	2389.200	46.44	-4.83	54.0	7.56	AV	137.00	150	Horizontal	Pass

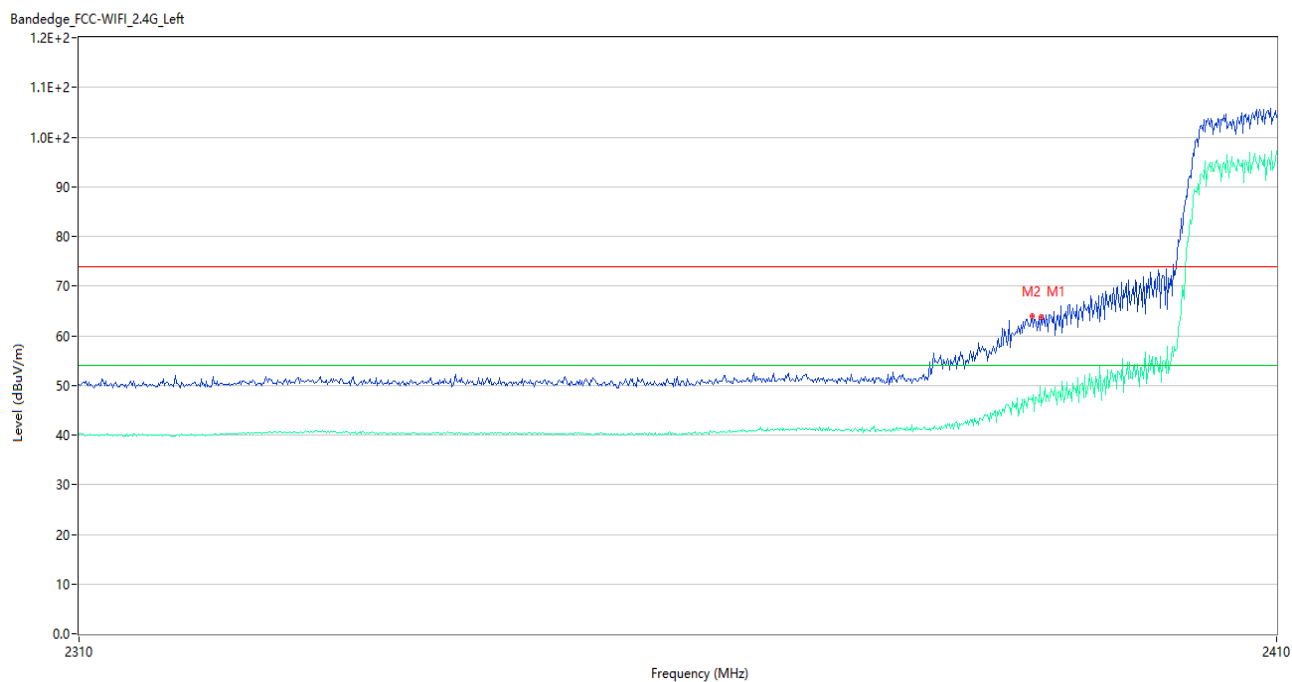
802.11g HIGH CHANNEL

Bandedge_FCC-WIFI_2.4G_Right



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	59.40	-3.78	74.0	14.60	Peak	136.00	150	Horizontal	Pass
1**	2483.500	45.92	-3.78	54.0	8.08	AV	136.00	150	Horizontal	Pass
2	2485.180	61.01	-3.78	74.0	12.99	Peak	136.00	150	Horizontal	Pass
2**	2485.180	44.83	-3.78	54.0	9.17	AV	136.00	150	Horizontal	Pass

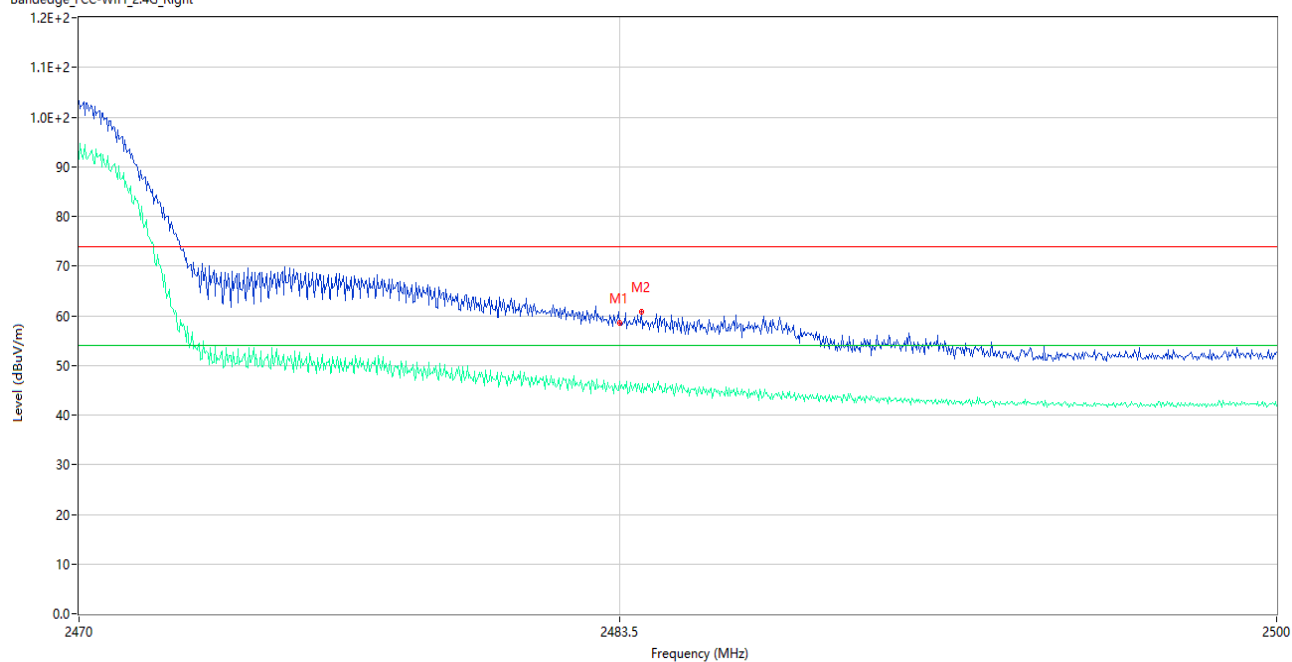
802.11n20 LOW CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	63.80	-4.87	74.0	10.20	Peak	133.12	150	Horizontal	Pass
1**	2390.000	45.87	-4.87	54.0	8.13	AV	133.12	150	Horizontal	Pass
2	2389.200	63.95	-4.83	74.0	10.05	Peak	136.00	150	Horizontal	Pass
2**	2389.200	46.96	-4.83	54.0	7.04	AV	136.00	150	Horizontal	Pass

802.11n20 HIGH CHANNEL

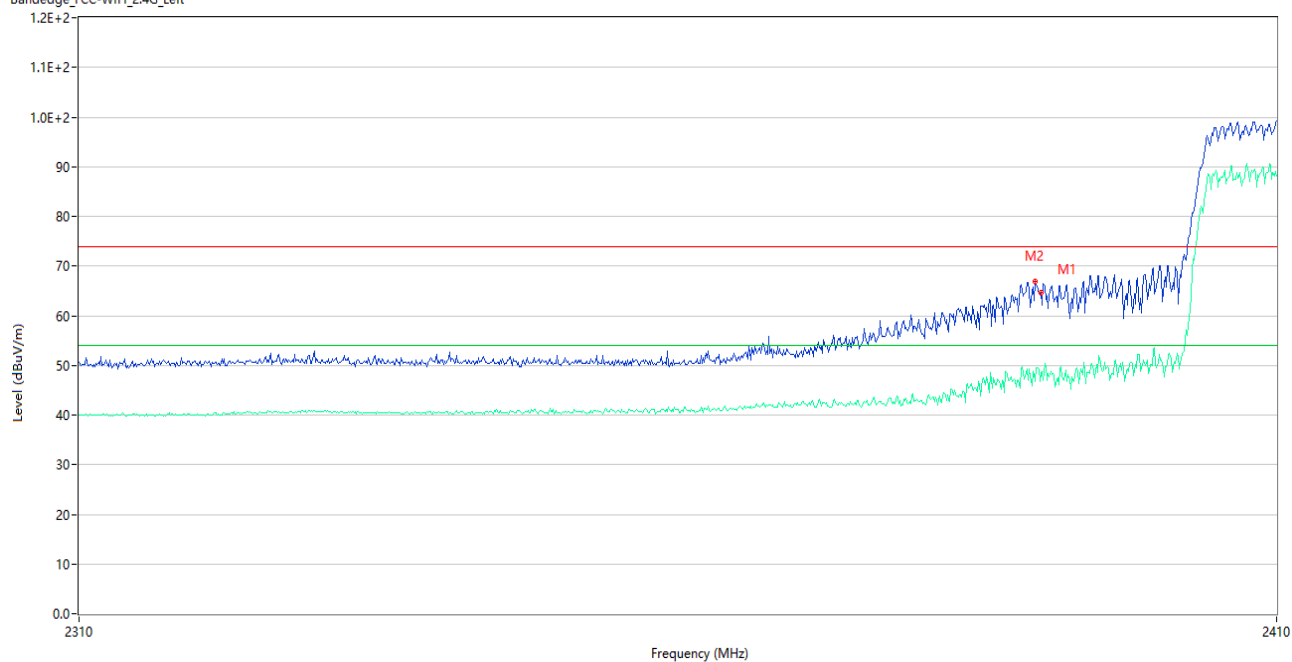
Bandedge_FCC-WIFI_2.4G_Right



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	58.52	-3.78	74.0	15.48	Peak	126.00	150	Horizontal	Pass
1**	2483.500	46.72	-3.78	54.0	7.28	AV	126.00	150	Horizontal	Pass
2	2484.040	60.78	-3.78	74.0	13.22	Peak	134.00	150	Horizontal	Pass
2**	2484.040	44.57	-3.78	54.0	9.43	AV	134.00	150	Horizontal	Pass

802.11n40 LOW CHANNEL

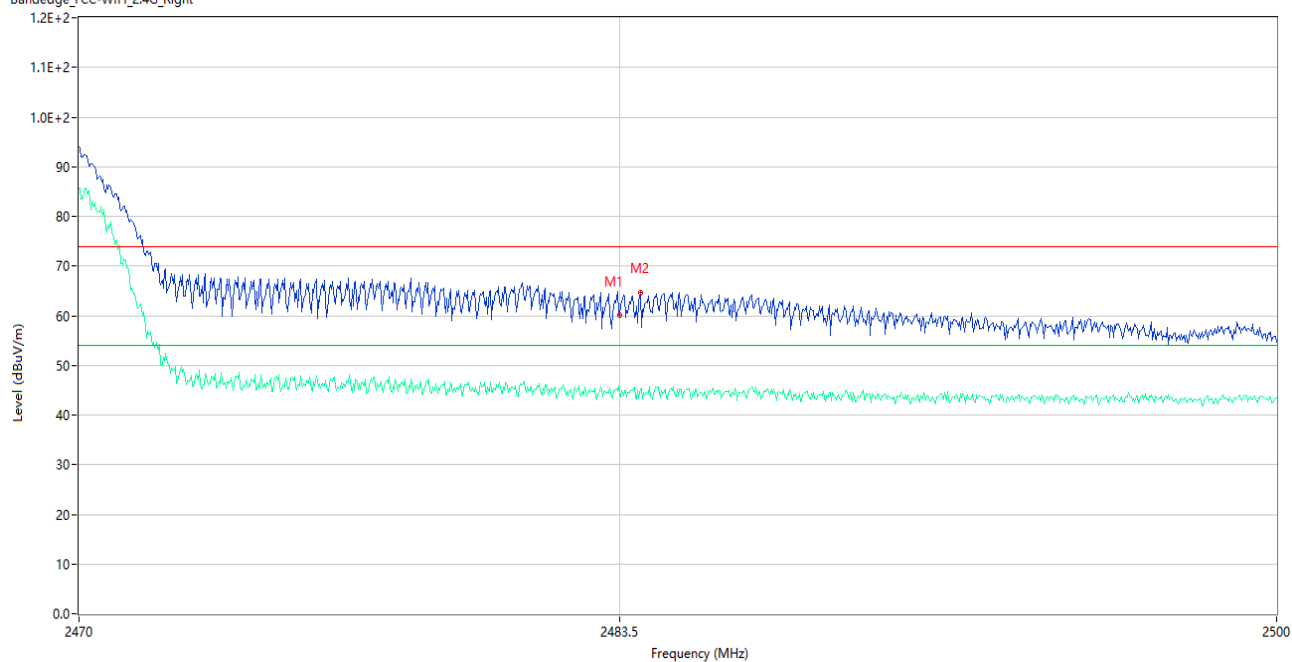
Bandedge_FCC-WIFI_2.4G_Left



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	64.62	-4.87	74.0	9.38	Peak	139.11	150	Horizontal	Pass
1**	2390.000	48.31	-4.87	54.0	5.69	AV	139.11	150	Horizontal	Pass
2	2389.500	66.97	-4.85	74.0	7.03	Peak	137.00	150	Horizontal	Pass
2**	2389.500	46.89	-4.85	54.0	7.11	AV	137.00	150	Horizontal	Pass

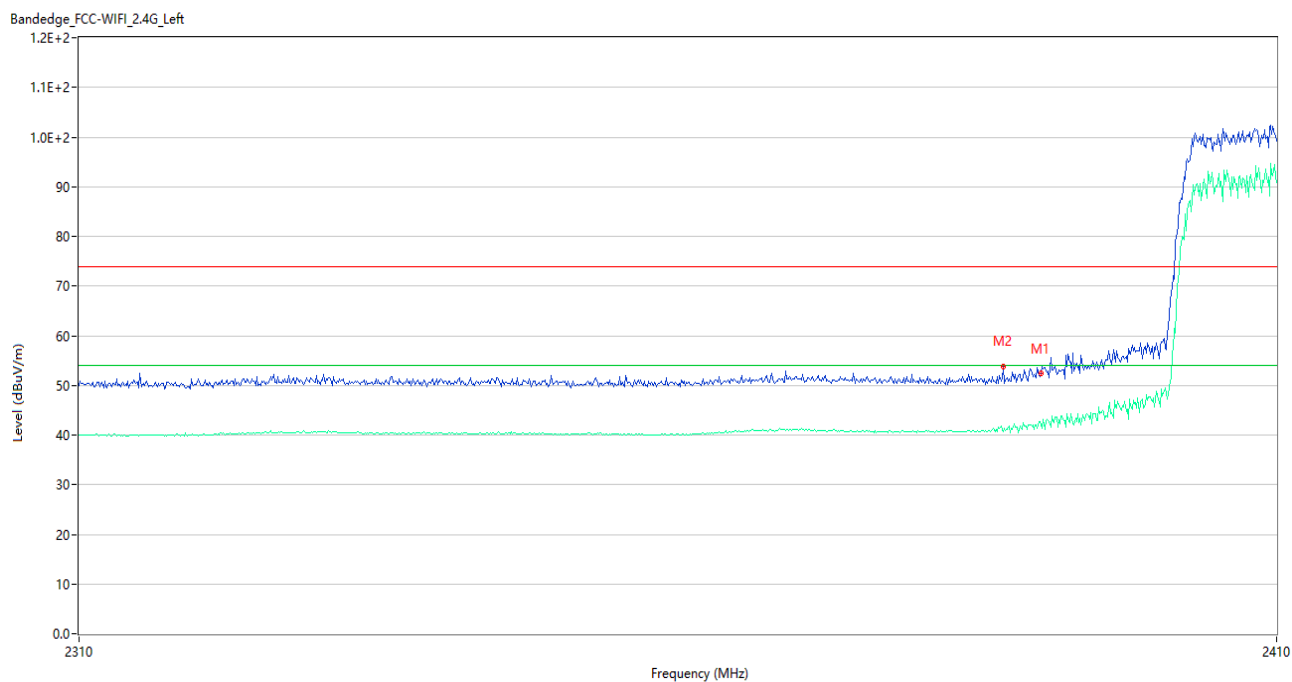
802.11n40 HIGH CHANNEL

Bandedge_FCC-WIFI_2.4G_Right



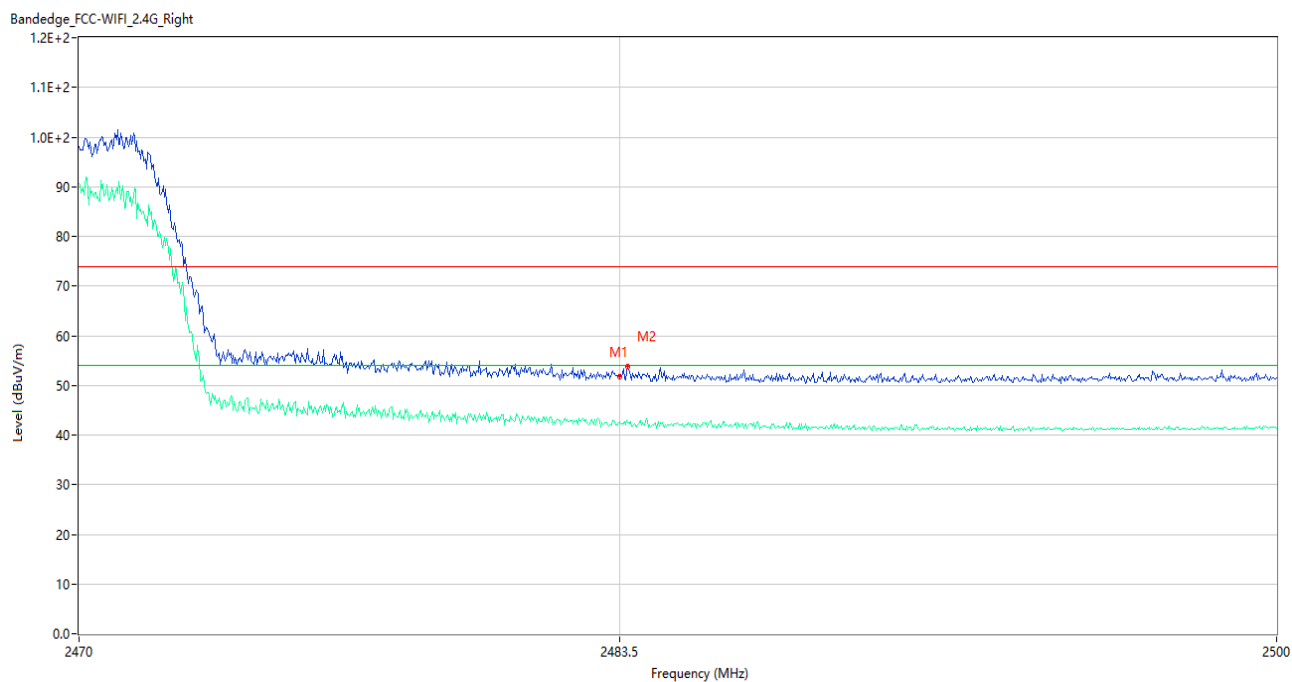
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	60.07	-3.78	74.0	13.93	Peak	132.00	150	Horizontal	Pass
1**	2483.500	44.12	-3.78	54.0	9.88	AV	132.00	150	Horizontal	Pass
2	2484.010	64.70	-3.78	74.0	9.30	Peak	137.00	150	Horizontal	Pass
2**	2484.010	45.23	-3.78	54.0	8.77	AV	137.00	150	Horizontal	Pass

802.11ax20(SU) 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	52.45	-4.87	74.0	21.55	Peak	336.98	150	Horizontal	Pass
1**	2390.000	42.24	-4.87	54.0	11.76	AV	336.98	150	Horizontal	Pass
2	2386.800	53.84	-4.69	74.0	20.16	Peak	139.00	150	Horizontal	Pass
2**	2386.800	40.60	-4.69	54.0	13.40	AV	139.00	150	Horizontal	Pass

802.11ax20(SU) 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	51.86	-3.78	74.0	22.14	Peak	276.00	150	Horizontal	Pass
1**	2483.500	42.77	-3.78	54.0	11.23	AV	276.00	150	Horizontal	Pass
2	2483.710	53.78	-3.78	74.0	20.22	Peak	137.00	150	Horizontal	Pass
2**	2483.710	42.44	-3.78	54.0	11.56	AV	137.00	150	Horizontal	Pass

802.11ax40(SU) LOW CHANNEL

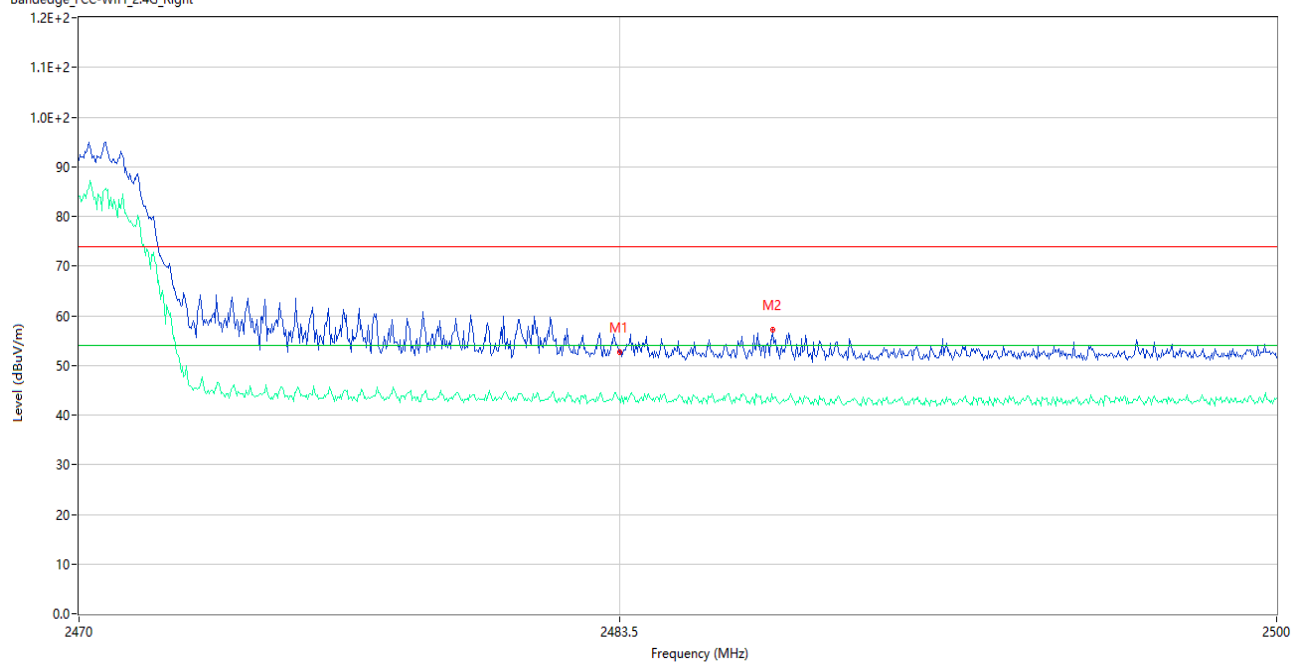
Bandedge_FCC-WIFI_2.4G_Left



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2390.000	54.30	-4.87	74.0	19.70	Peak	234.02	150	Horizontal	Pass
1**	2390.000	43.33	-4.87	54.0	10.67	AV	234.02	150	Horizontal	Pass
2	2389.000	59.31	-4.82	74.0	14.69	Peak	141.00	150	Horizontal	Pass
2**	2389.000	45.94	-4.82	54.0	8.06	AV	141.00	150	Horizontal	Pass

802.11ax40(SU) HIGH CHANNEL

Bandedge_FCC-WIFI_2.4G_Right



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin(dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	52.67	-3.78	74.0	21.33	Peak	225.00	150	Horizontal	Pass
1**	2483.500	43.30	-3.78	54.0	10.70	AV	225.00	150	Horizontal	Pass
2	2487.340	57.20	-3.80	74.0	16.80	Peak	138.00	150	Horizontal	Pass
2**	2487.340	43.06	-3.80	54.0	10.94	AV	138.00	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	-9.93	8
Middle	-10.04	8
High	-10.35	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-10.27	8
Middle	-10.35	8
High	-10.50	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-12.13	8
Middle	-12.04	8
High	-11.84	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-15.95	8
Middle	-16.13	8
High	-16.34	8

802.11ax-20 MHz(SU) Mode:

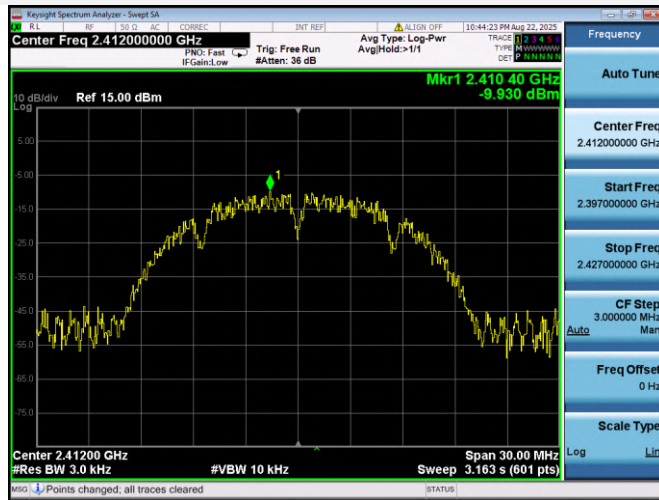
Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-15.31	8
Middle	-15.22	8
High	-15.54	8

802.11ax-40 MHz(SU) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-17.37	8
Middle	-17.98	8
High	-17.89	8

Test Plots

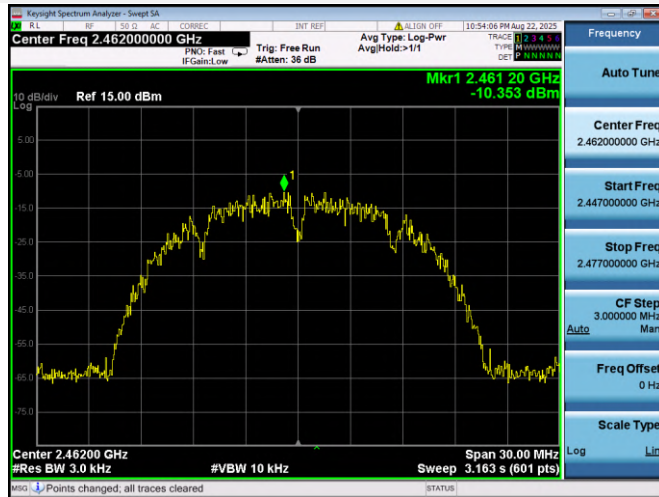
802.11b LOW CHANNEL



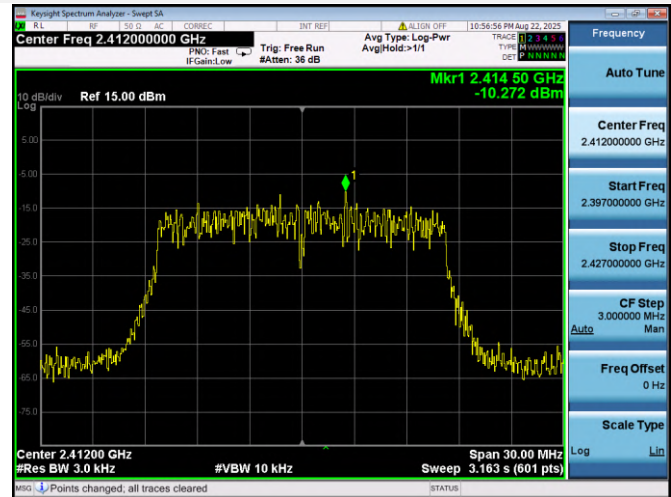
802.11b MIDDLE CHANNEL



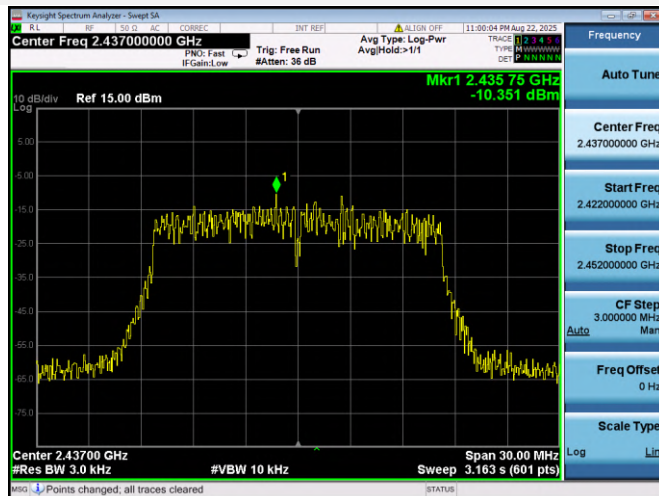
802.11b HIGH CHANNEL



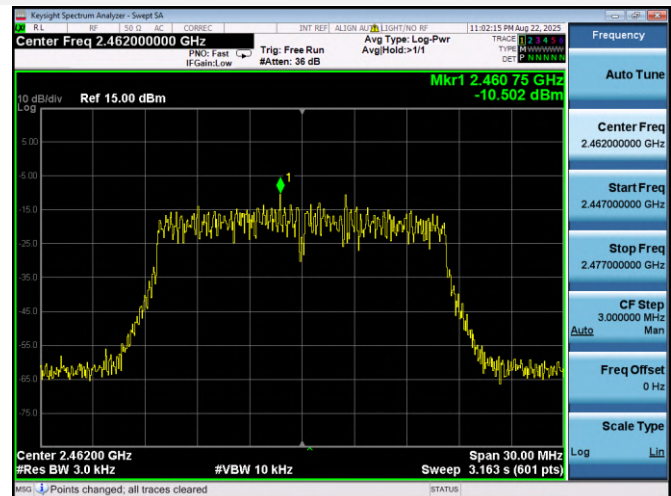
802.11g LOW CHANNEL



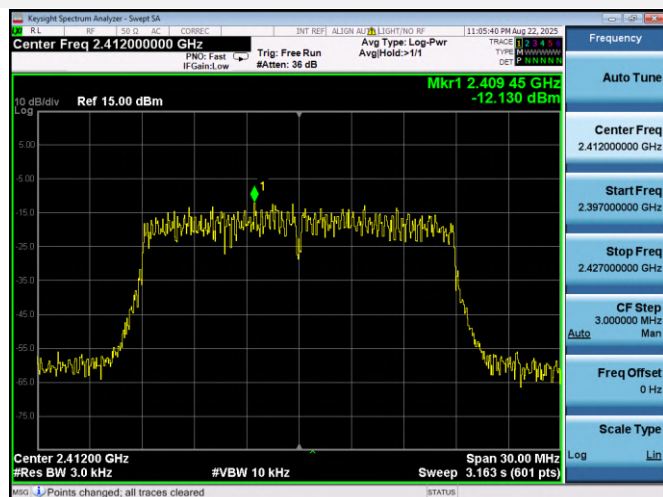
802.11g MIDDLE CHANNEL



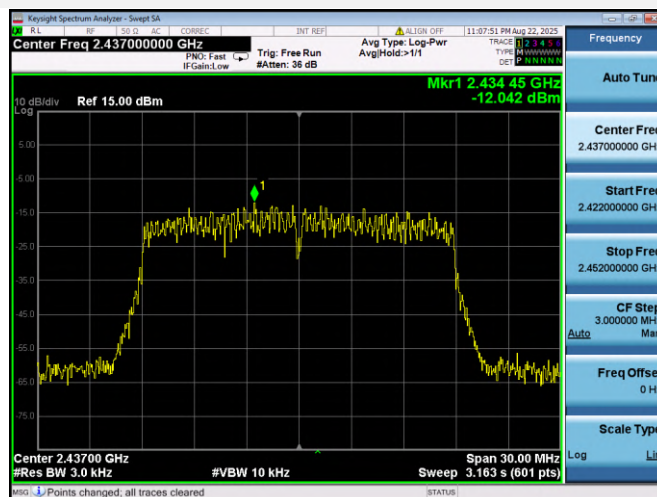
802.11g HIGH CHANNEL



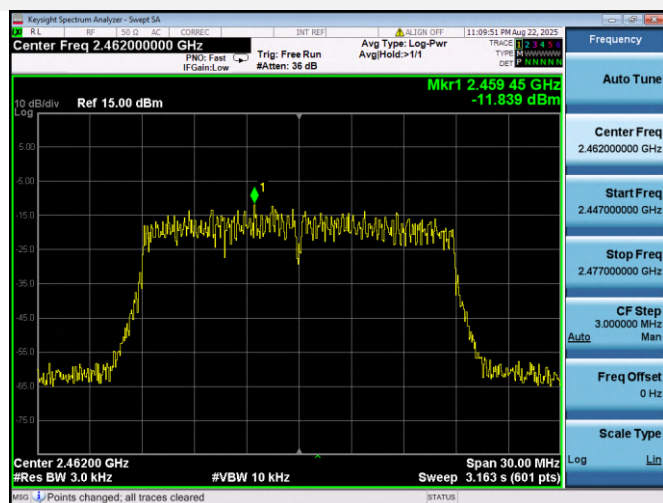
802.11n-20 MHz LOW CHANNEL



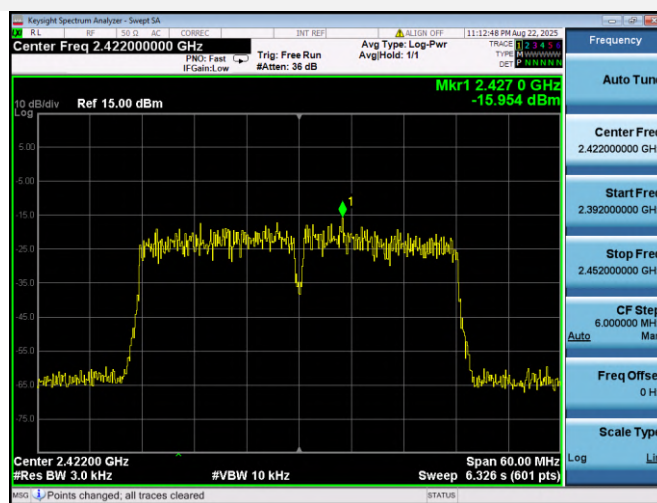
802.11 n-20 MHz MIDDLE CHANNEL



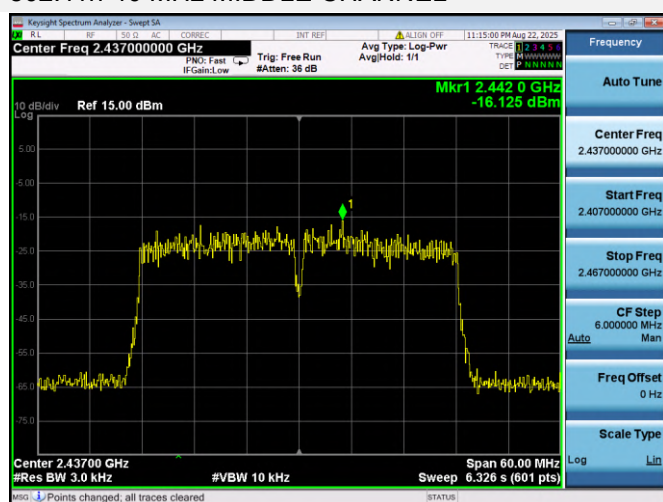
802.11n-20 MHz HIGH CHANNEL



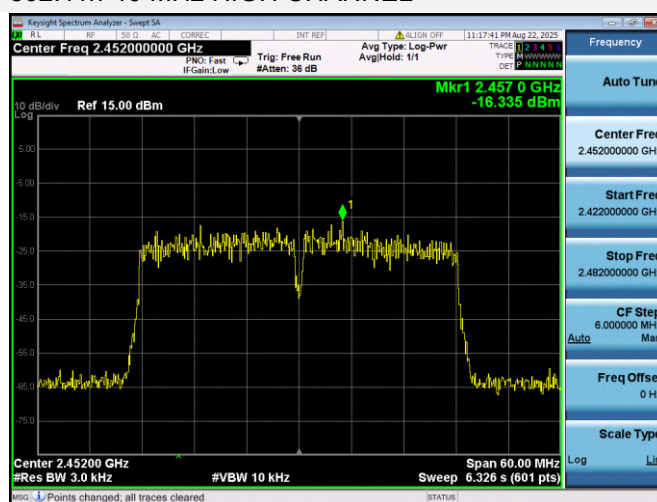
802.11n-40 MHz LOW CHANNEL



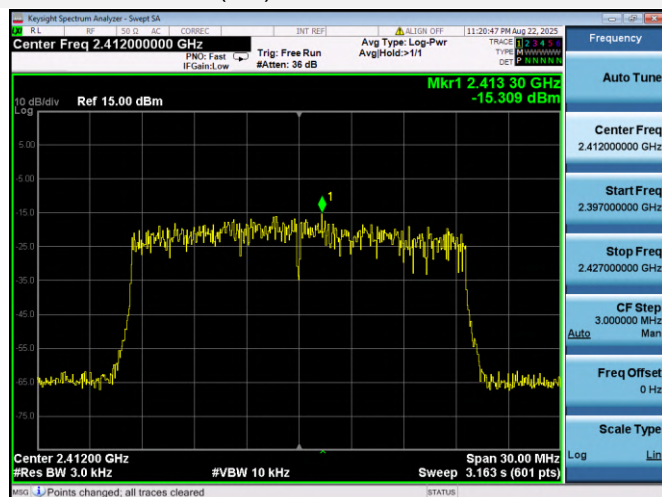
802.11n-40 MHz MIDDLE CHANNEL



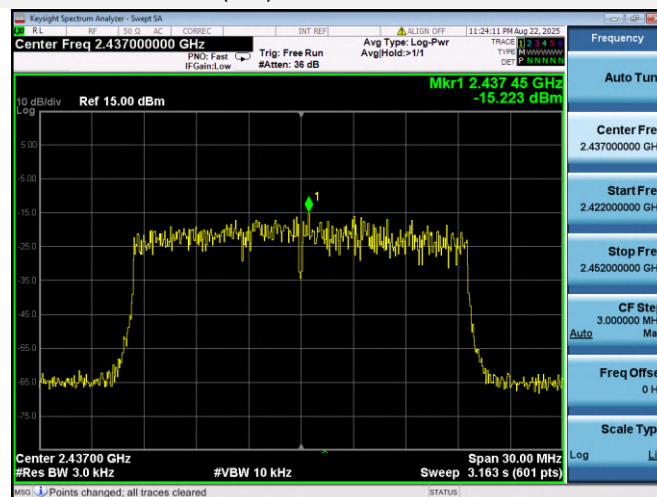
802.11n-40 MHz HIGH CHANNEL



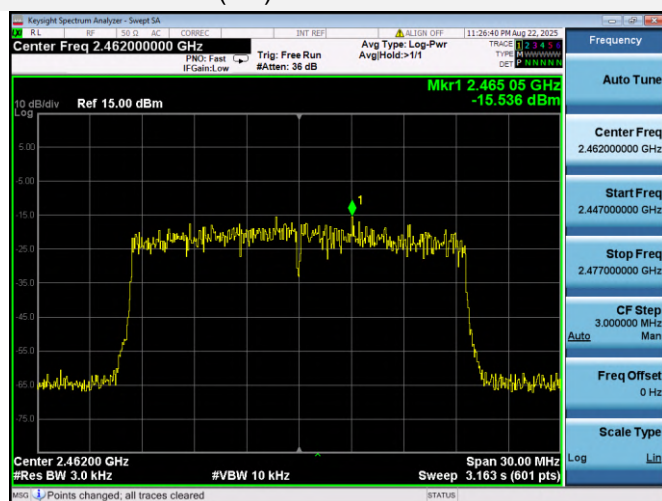
802.11ax-20 MHz(SU) LOW CHANNEL



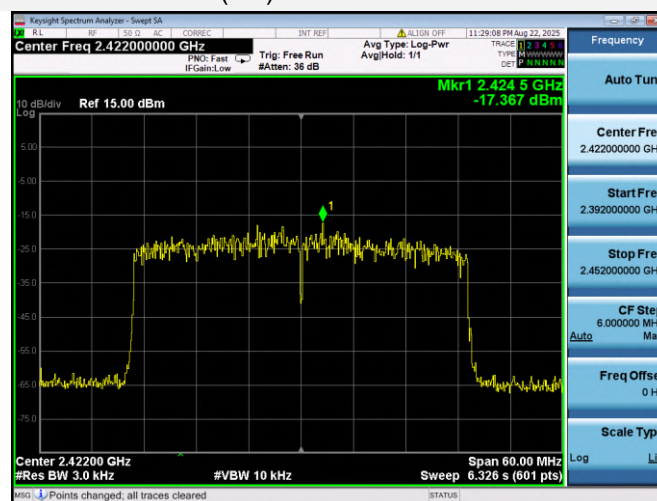
802.11ax-20 MHz(SU) MIDDLE CHANNEL



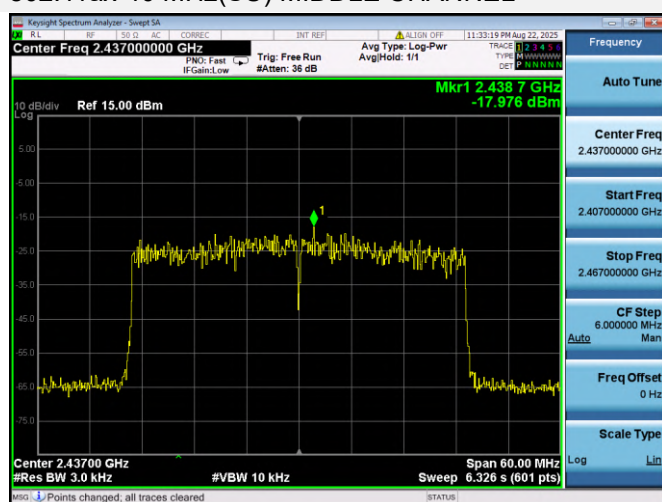
802.11ax-20 MHz(SU) HIGH CHANNEL



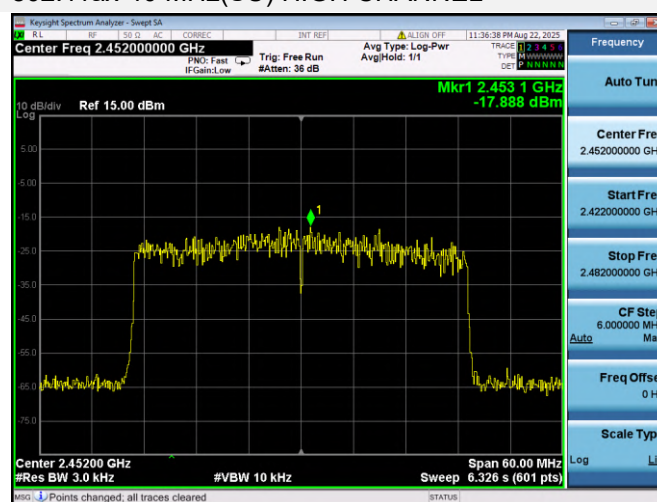
802.11ax-40 MHz(SU) LOW CHANNEL



802.11ax-40 MHz(SU) MIDDLE CHANNEL



802.11ax-40 MHz(SU) HIGH CHANNEL



ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2580481-AR-1.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2580481-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2580481-AI.PDF”.

Statement

1. The Testing Center guarantees the scientificity, accuracy and impartiality of the test, and is responsible for all the information in the report, except the information provided by the customer. The customer is responsible for the impact of the information provided on the validity of the results.
2. For the report with Accreditation Symbol, the items marked with "☆" are not within the accredited scope.
3. This report is invalid if it is altered, without the signature of the testing and approval personnel, or without the test report stamp.
4. The test data and results are only valid for the tested samples provided by the customer.
5. This report shall not be partially reproduced without the written permission of the Testing Center.
6. Any objection shall be raised to the Testing Center within 30 days after receiving the report.

--END OF REPORT--