

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1291.600	54.47	-16.55	74.0	19.53	Peak	0.00	300	Horizontal	Pass
1**	1291.600	41.56	-16.55	54.0	12.44	AV	0.00	300	Horizontal	Pass
2	2452.100	88.47	-9.91	74.0	-14.47	Peak	343.00	150	Horizontal	N/A
2**	2452.100	81.07	-9.91	54.0	-27.07	AV	343.00	150	Horizontal	N/A
3	3709.250	52.05	-5.15	74.0	21.95	Peak	254.00	100	Horizontal	Pass
3**	3709.250	50.01	-5.15	54.0	3.99	AV	254.00	100	Horizontal	Pass
4	7745.750	54.03	1.31	74.0	19.97	Peak	218.00	300	Horizontal	Pass
4**	7745.750	44.73	1.31	54.0	9.27	AV	218.00	300	Horizontal	Pass
5	11127.400	51.74	-0.98	74.0	22.26	Peak	106.00	100	Horizontal	Pass
5**	11127.400	42.25	-0.98	54.0	11.75	AV	106.00	100	Horizontal	Pass
6	16344.937	52.31	0.70	74.0	21.69	Peak	351.00	300	Horizontal	Pass
6**	16344.937	43.34	0.70	54.0	10.66	AV	351.00	300	Horizontal	Pass

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

No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1303.100	50.20	-16.60	74.0	23.80	Peak	222.00	100	Vertical	Pass
1**	1303.100	36.94	-16.60	54.0	17.06	AV	222.00	100	Vertical	Pass
2	2450.500	96.18	-9.95	74.0	-22.18	Peak	156.00	200	Vertical	N/A
2**	2450.500	88.49	-9.95	54.0	-34.49	AV	156.00	200	Vertical	N/A
3	3560.750	50.29	-6.05	74.0	23.71	Peak	312.00	200	Vertical	Pass
3**	3560.750	42.32	-6.05	54.0	11.68	AV	312.00	200	Vertical	Pass
4	7817.500	53.76	2.68	74.0	20.24	Peak	338.00	300	Vertical	Pass
4**	7817.500	44.27	2.68	54.0	9.73	AV	338.00	300	Vertical	Pass
5	11148.537	51.33	-0.95	74.0	22.67	Peak	181.00	300	Vertical	Pass
5**	11148.537	42.57	-0.95	54.0	11.43	AV	181.00	300	Vertical	Pass
6	16278.000	51.80	-0.79	74.0	22.20	Peak	261.00	150	Vertical	Pass
6**	16278.000	42.37	-0.79	54.0	11.63	AV	261.00	150	Vertical	Pass

1 GHz to 18 GHz, ANT H 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	1287.500	54.74	-16.51	74.0	19.26	Peak	329.00	100	Horizontal	Pass
1**	1287.500	42.85	-16.51	54.0	11.15	AV	329.00	100	Horizontal	Pass
2	2463.600	91.54	-9.76	74.0	-17.54	Peak	338.00	100	Horizontal	N/A
2**	2463.600	83.54	-9.76	54.0	-29.54	AV	338.00	100	Horizontal	N/A
3	3560.500	50.72	-6.05	74.0	23.28	Peak	259.00	150	Horizontal	Pass
3**	3560.500	47.12	-6.05	54.0	6.88	AV	259.00	150	Horizontal	Pass
4	7840.250	54.47	3.21	74.0	19.53	Peak	314.00	200	Horizontal	Pass
4**	7840.250	45.56	3.21	54.0	8.44	AV	314.00	200	Horizontal	Pass
5	10724.125	51.54	-2.06	74.0	22.46	Peak	251.00	400	Horizontal	Pass
5**	10724.125	41.66	-2.06	54.0	12.34	AV	251.00	400	Horizontal	Pass
6	16450.200	52.20	0.53	74.0	21.80	Peak	24.00	100	Horizontal	Pass
6**	16450.200	42.19	0.53	54.0	11.81	AV	24.00	100	Horizontal	Pass

1 GHz to 18 GHz, ANT V 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	1323.300	50.08	-16.74	74.0	23.92	Peak	166.00	200	Vertical	Pass
1**	1323.300	35.91	-16.74	54.0	18.09	AV	166.00	200	Vertical	Pass
2	2459.900	97.36	-9.74	74.0	-23.36	Peak	156.00	200	Vertical	N/A
2**	2459.900	89.37	-9.74	54.0	-35.37	AV	156.00	200	Vertical	N/A
3	4904.250	51.18	-2.50	74.0	22.82	Peak	35.00	100	Vertical	Pass
3**	4904.250	45.88	-2.50	54.0	8.12	AV	35.00	100	Vertical	Pass
4	7765.750	53.47	1.71	74.0	20.53	Peak	130.00	200	Vertical	Pass
4**	7765.750	44.48	1.71	54.0	9.52	AV	130.00	200	Vertical	Pass
5	9858.201	51.56	-1.99	74.0	22.44	Peak	94.00	400	Vertical	Pass
5**	9858.201	41.75	-1.99	54.0	12.25	AV	94.00	400	Vertical	Pass
6	16317.638	52.39	-0.07	74.0	21.61	Peak	177.00	200	Vertical	Pass
6**	16317.638	43.07	-0.07	54.0	10.93	AV	177.00	200	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.

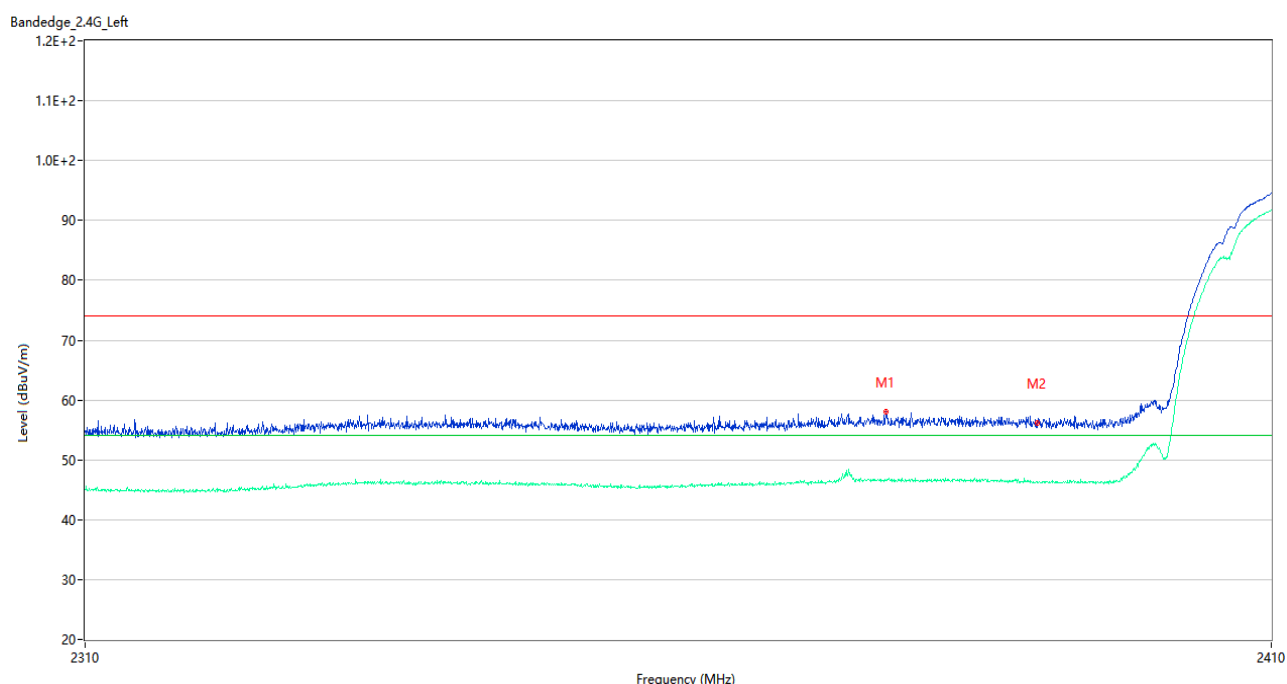
Note ²: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

Note ³: According the ANSI C63.10-2013, 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

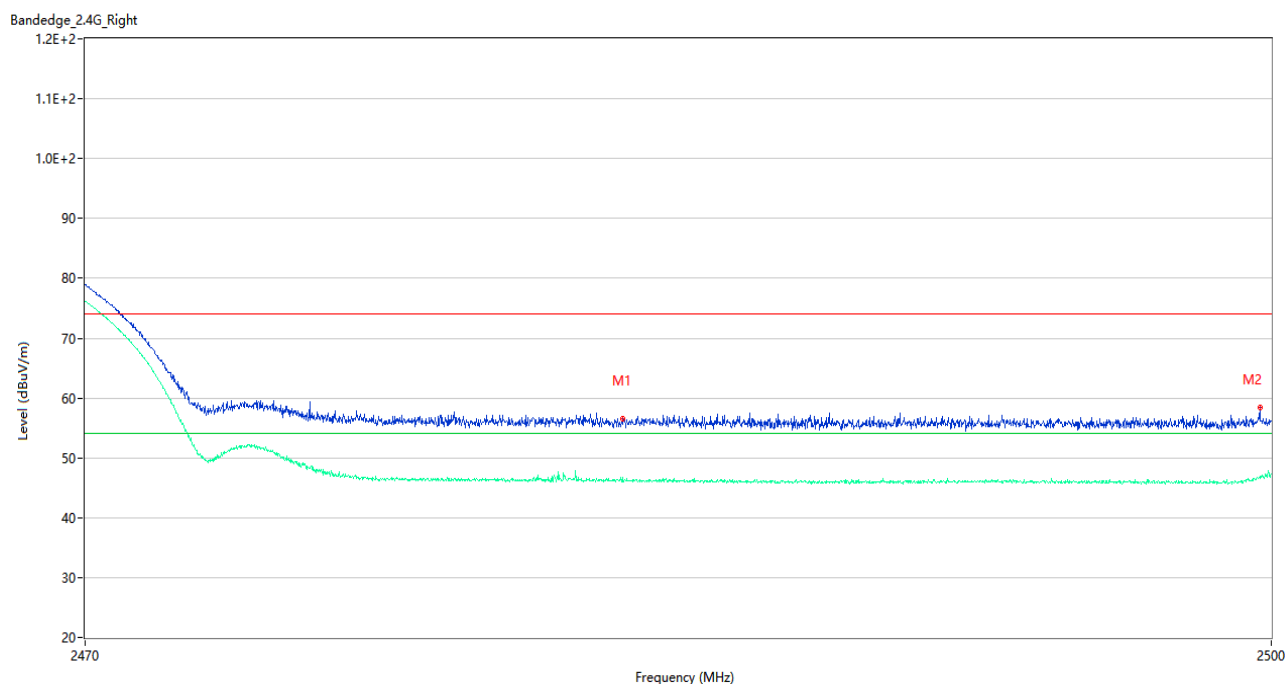
Main Antenna

802.11b LOW CHANNEL



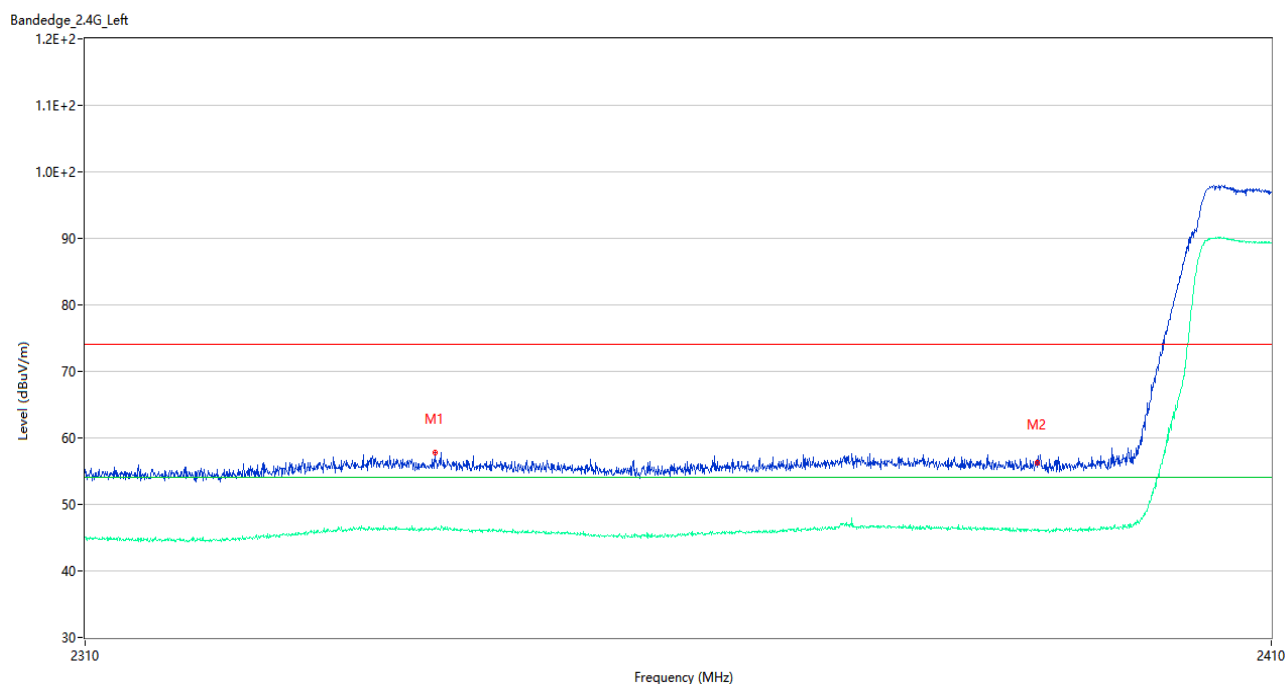
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2377.050	57.98	1.81	74.0	16.02	Peak	0.00	150	Vertical	Pass
1**	2377.050	46.52	1.81	54.0	7.48	AV	0.00	150	Vertical	Pass
2	2389.950	56.22	1.86	74.0	17.78	Peak	0.00	100	Vertical	Pass
2**	2389.950	46.33	1.86	54.0	7.67	AV	0.00	100	Vertical	Pass

802.11b HIGH CHANNEL



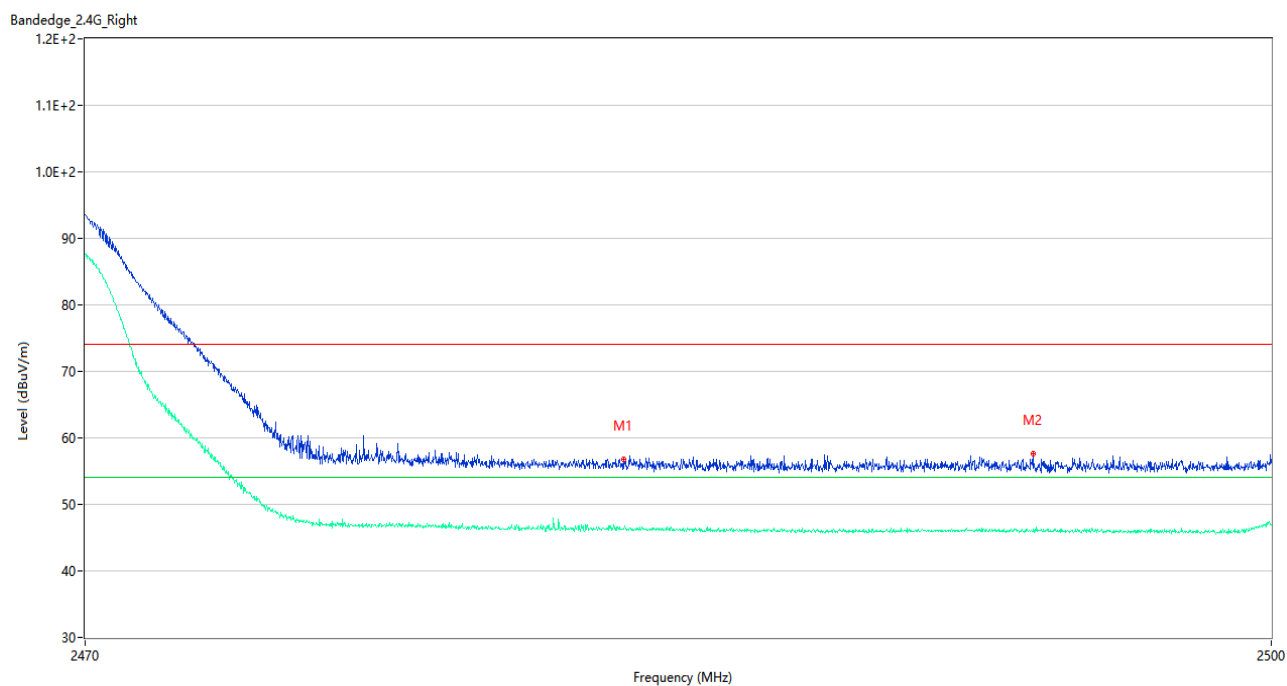
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.560	56.55	1.77	74.0	17.45	Peak	93.00	100	Vertical	Pass
1**	2483.560	45.97	1.77	54.0	8.03	AV	93.00	100	Vertical	Pass
2	2499.715	58.49	1.36	74.0	15.51	Peak	110.00	150	Vertical	Pass
2**	2499.715	46.65	1.36	54.0	7.35	AV	110.00	150	Vertical	Pass

802.11g LOW CHANNEL



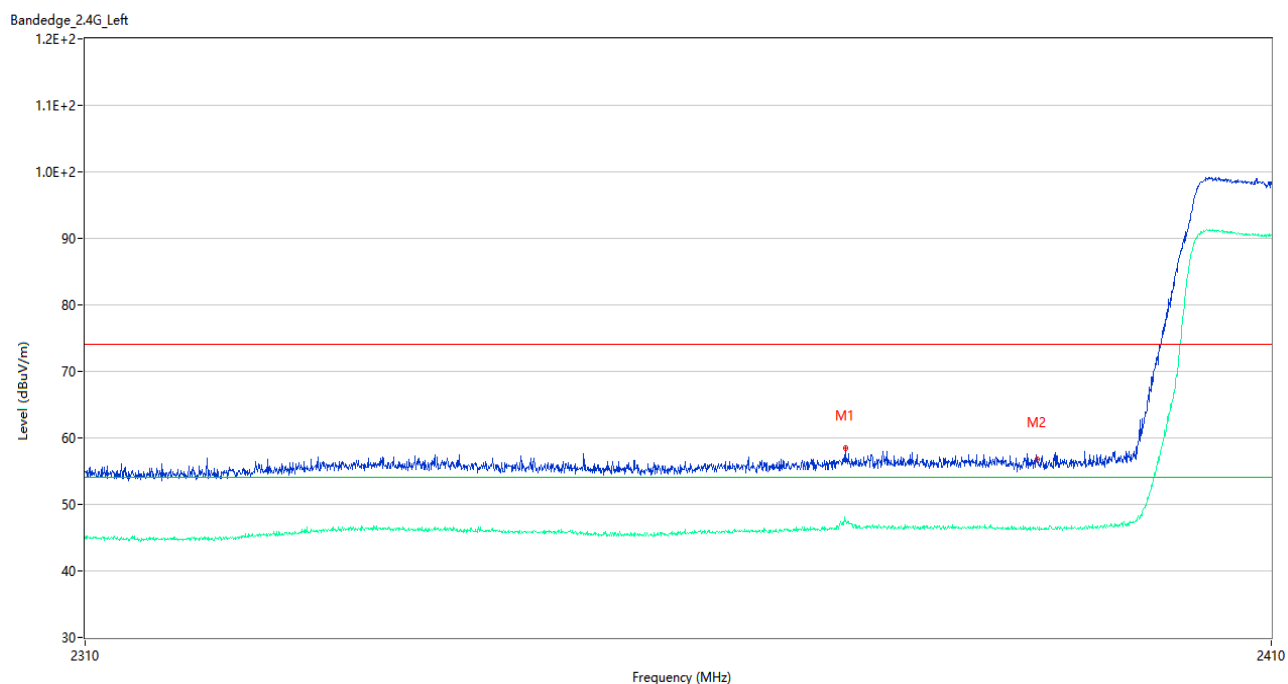
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2339.050	57.83	1.59	74.0	16.17	Peak	249.00	150	Vertical	Pass
1**	2339.050	46.29	1.59	54.0	7.71	AV	249.00	150	Vertical	Pass
2	2389.950	56.24	1.86	74.0	17.76	Peak	269.00	150	Vertical	Pass
2**	2389.950	46.04	1.86	54.0	7.96	AV	269.00	150	Vertical	Pass

802.11g HIGH CHANNEL



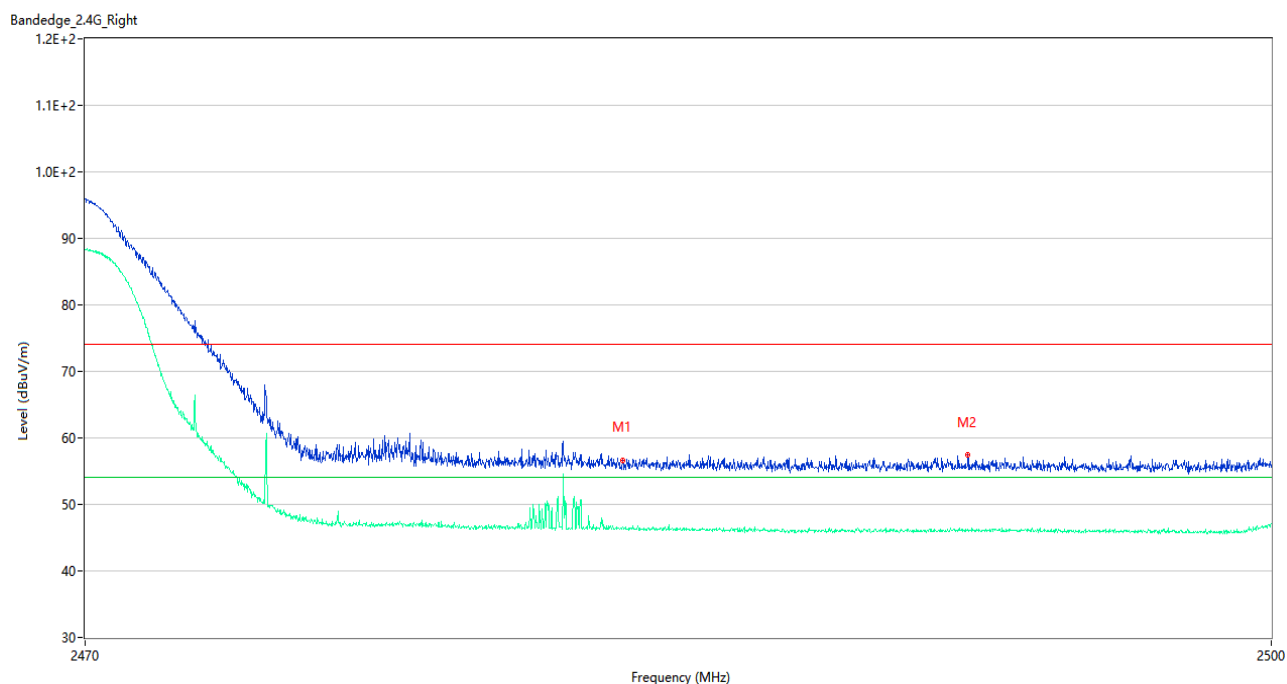
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.590	56.82	1.77	74.0	17.18	Peak	360.00	200	Vertical	Pass
1**	2483.590	46.18	1.77	54.0	7.82	AV	360.00	200	Vertical	Pass
2	2493.940	57.67	1.67	74.0	16.33	Peak	291.00	150	Vertical	Pass
2**	2493.940	45.89	1.67	54.0	8.11	AV	291.00	150	Vertical	Pass

802.11n20 LOW CHANNEL



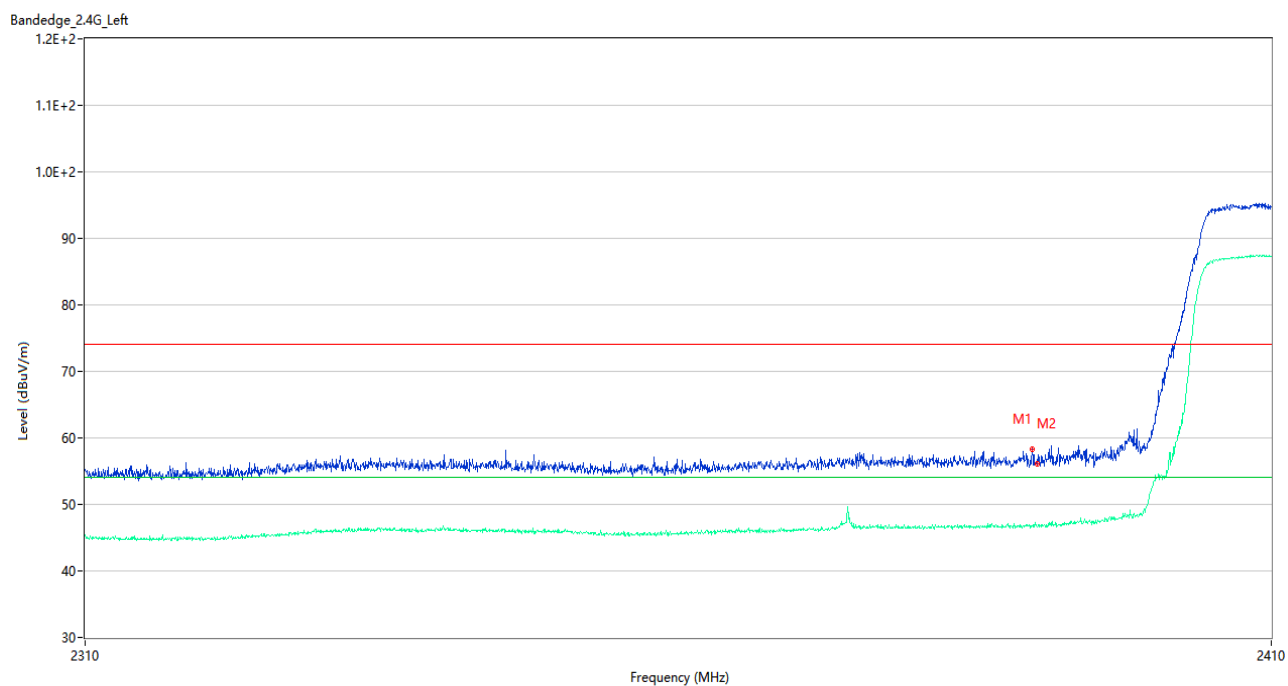
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2373.600	58.41	1.50	74.0	15.59	Peak	277.00	100	Vertical	Pass
1**	2373.600	47.63	1.50	54.0	6.37	AV	277.00	100	Vertical	Pass
2	2389.950	56.71	1.86	74.0	17.29	Peak	0.00	100	Vertical	Pass
2**	2389.950	46.53	1.86	54.0	7.47	AV	0.00	100	Vertical	Pass

802.11n20 HIGH CHANNEL



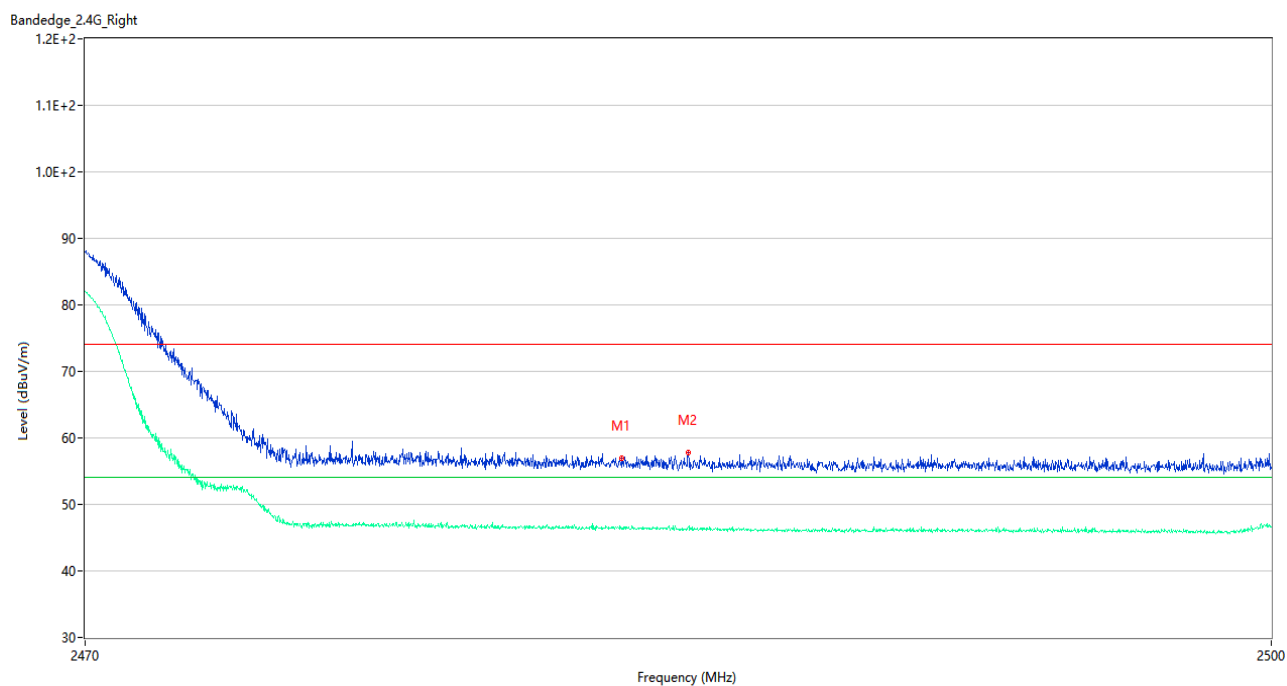
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.560	56.62	1.77	74.0	17.38	Peak	213.00	200	Vertical	Pass
1**	2483.560	46.55	1.77	54.0	7.45	AV	213.00	200	Vertical	Pass
2	2492.290	57.41	1.72	74.0	16.59	Peak	48.00	100	Vertical	Pass
2**	2492.290	46.15	1.72	54.0	7.85	AV	48.00	100	Vertical	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	2389.500	58.27	1.89	74.0	15.73	Peak	179.00	200	Vertical	Pass
1**	2389.500	46.81	1.89	54.0	7.19	AV	179.00	200	Vertical	Pass
2	2389.950	56.13	1.86	74.0	17.87	Peak	108.00	150	Vertical	Pass
2**	2389.950	46.55	1.86	54.0	7.45	AV	108.00	150	Vertical	Pass

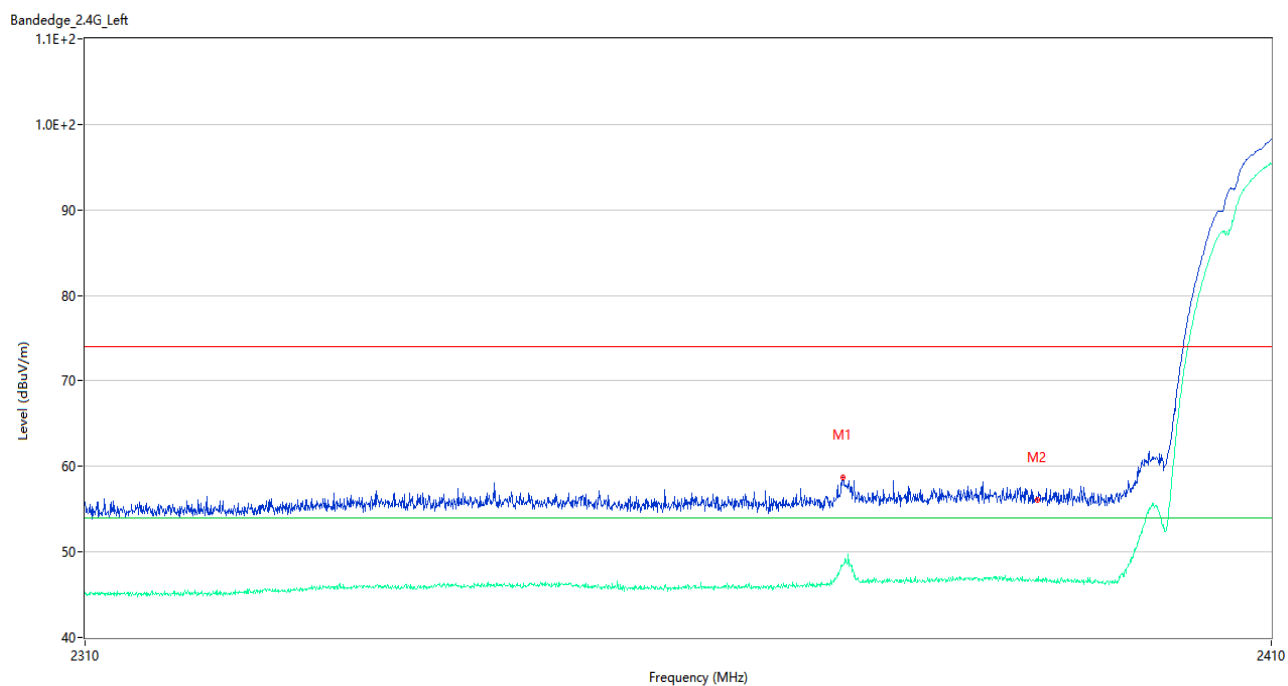
802.11n40 HIGH CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.530	56.88	1.77	74.0	17.12	Peak	122.00	100	Vertical	Pass
1**	2483.530	46.42	1.77	54.0	7.58	AV	122.00	100	Vertical	Pass
2	2485.210	57.73	1.73	74.0	16.27	Peak	110.00	150	Vertical	Pass
2**	2485.210	46.55	1.73	54.0	7.45	AV	110.00	150	Vertical	Pass

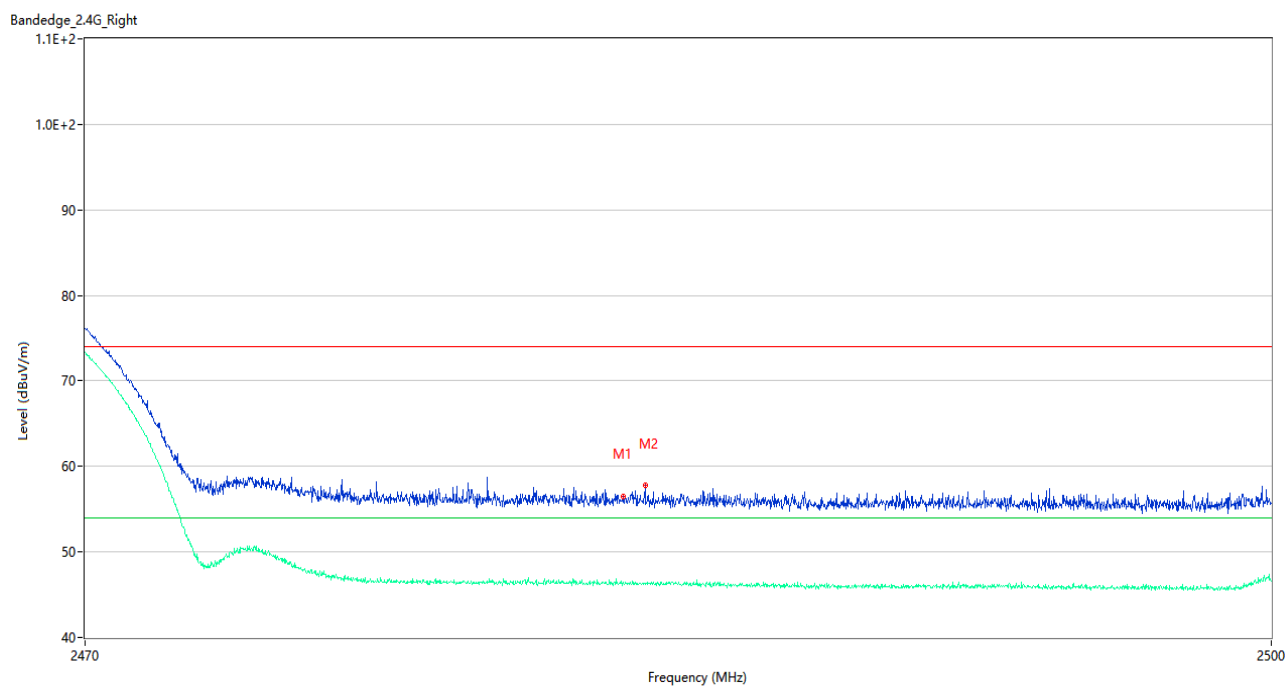
Aux. Antenna

802.11b LOW CHANNEL



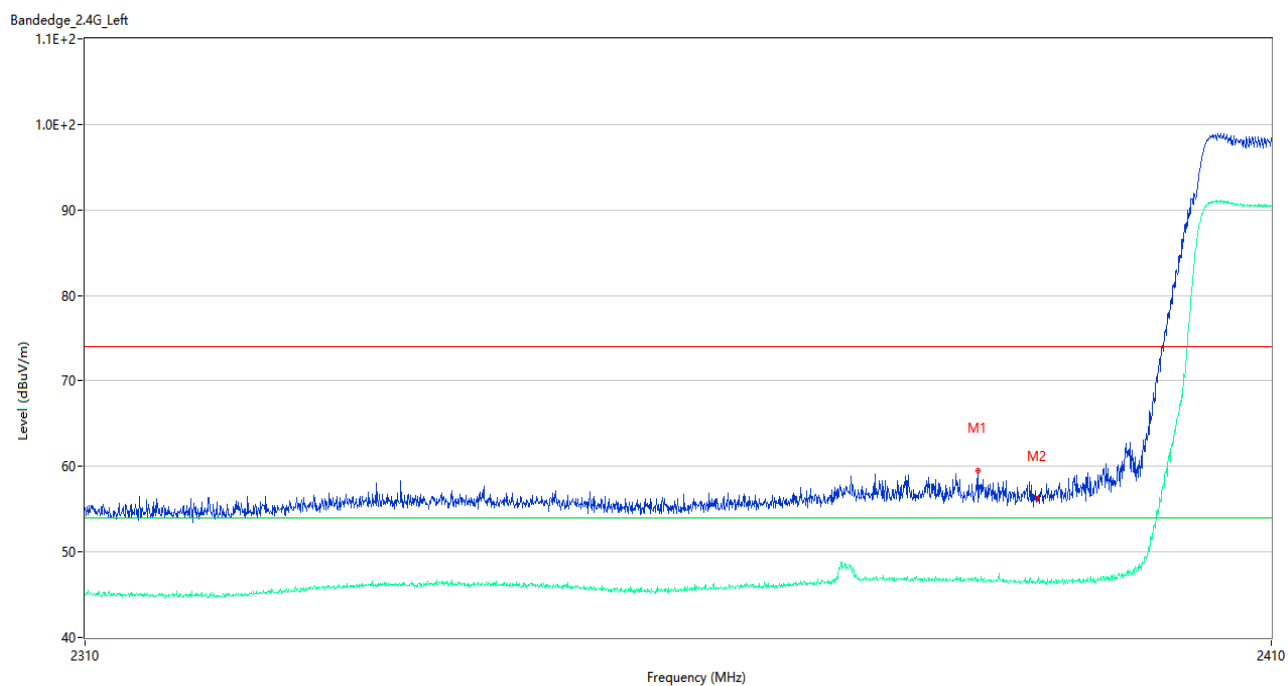
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2373.400	58.75	1.48	74.0	15.25	Peak	256.00	100	Vertical	Pass
1**	2373.400	48.44	1.48	54.0	5.56	AV	256.00	100	Vertical	Pass
2	2389.950	56.10	1.86	74.0	17.90	Peak	215.00	200	Vertical	Pass
2**	2389.950	46.65	1.86	54.0	7.35	AV	215.00	200	Vertical	Pass

802.11b HIGH CHANNEL



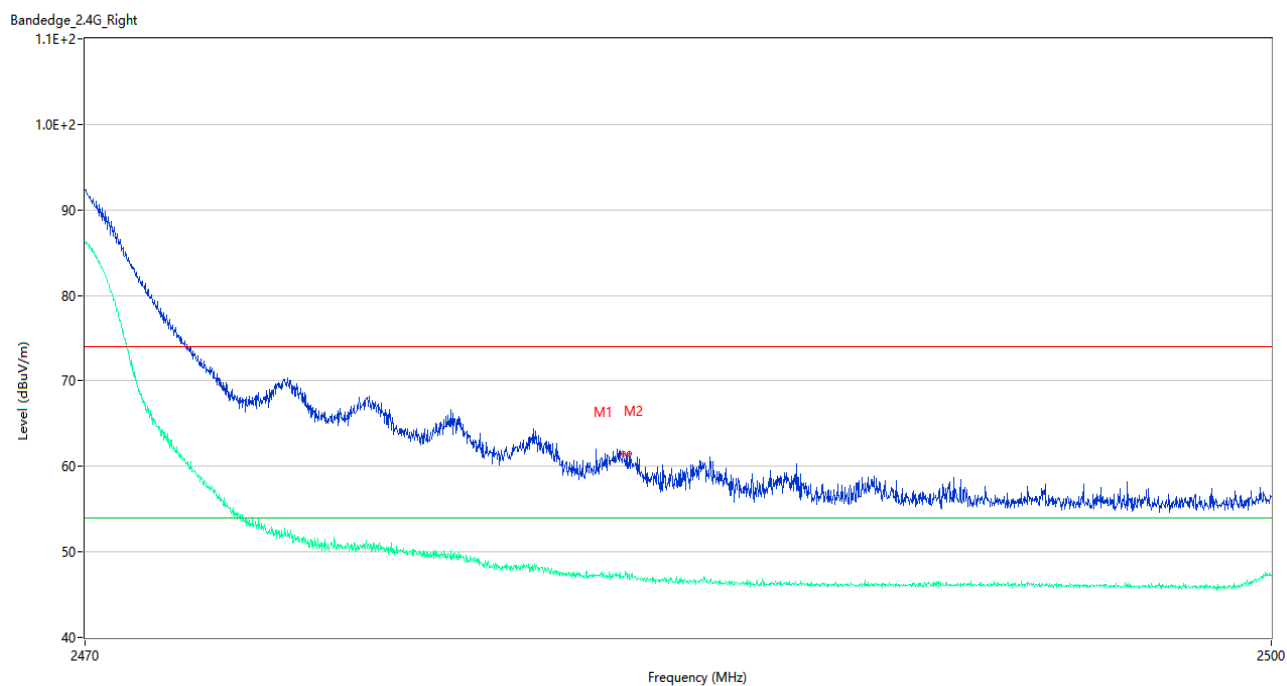
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.560	56.53	1.77	74.0	17.47	Peak	13.00	100	Vertical	Pass
1**	2483.560	46.47	1.77	54.0	7.53	AV	13.00	100	Vertical	Pass
2	2484.115	57.73	1.77	74.0	16.27	Peak	110.00	200	Vertical	Pass
2**	2484.115	46.28	1.77	54.0	7.72	AV	110.00	200	Vertical	Pass

802.11g LOW CHANNEL



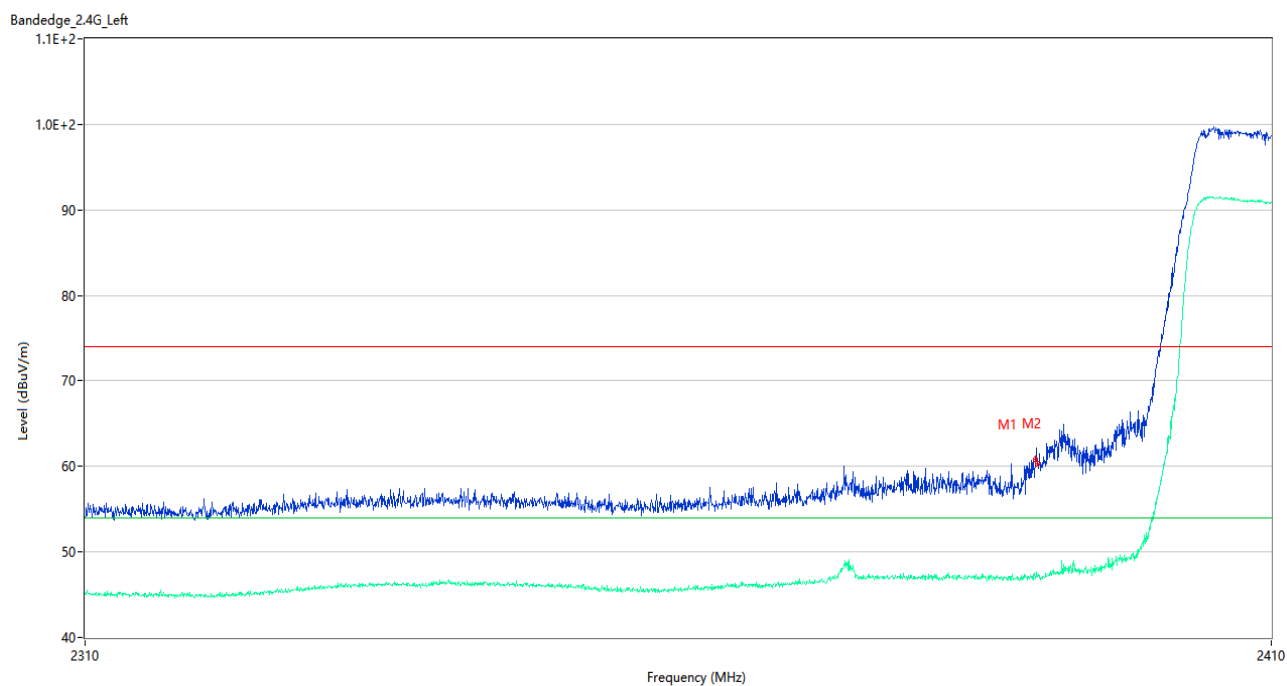
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2384.900	59.50	2.07	74.0	14.50	Peak	269.00	100	Vertical	Pass
1**	2384.900	46.63	2.07	54.0	7.37	AV	269.00	100	Vertical	Pass
2	2389.950	56.26	1.86	74.0	17.74	Peak	276.00	200	Vertical	Pass
2**	2389.950	46.41	1.86	54.0	7.59	AV	276.00	200	Vertical	Pass

802.11g HIGH CHANNEL



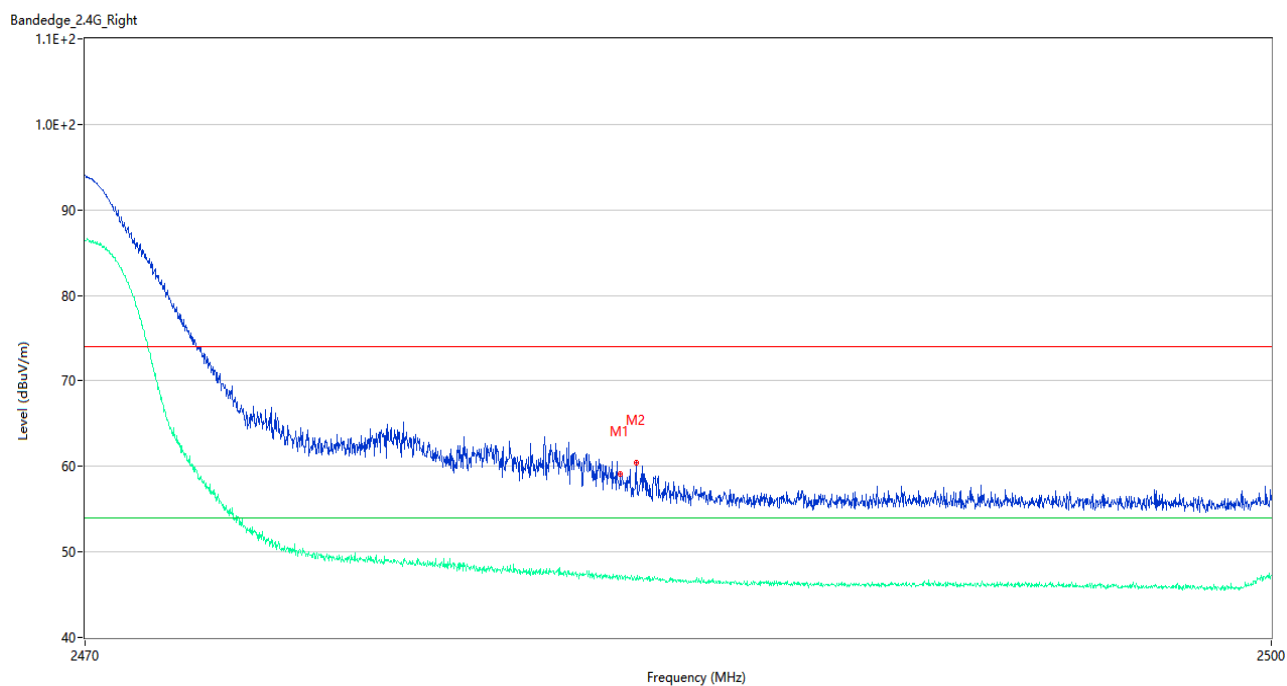
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.575	61.48	1.77	74.0	12.52	Peak	142.00	100	Vertical	Pass
1**	2483.575	46.95	1.77	54.0	7.05	AV	142.00	100	Vertical	Pass
2	2483.725	61.48	1.77	74.0	12.52	Peak	67.00	150	Vertical	Pass
2**	2483.725	46.71	1.77	54.0	7.29	AV	67.00	150	Vertical	Pass

802.11n20 LOW CHANNEL



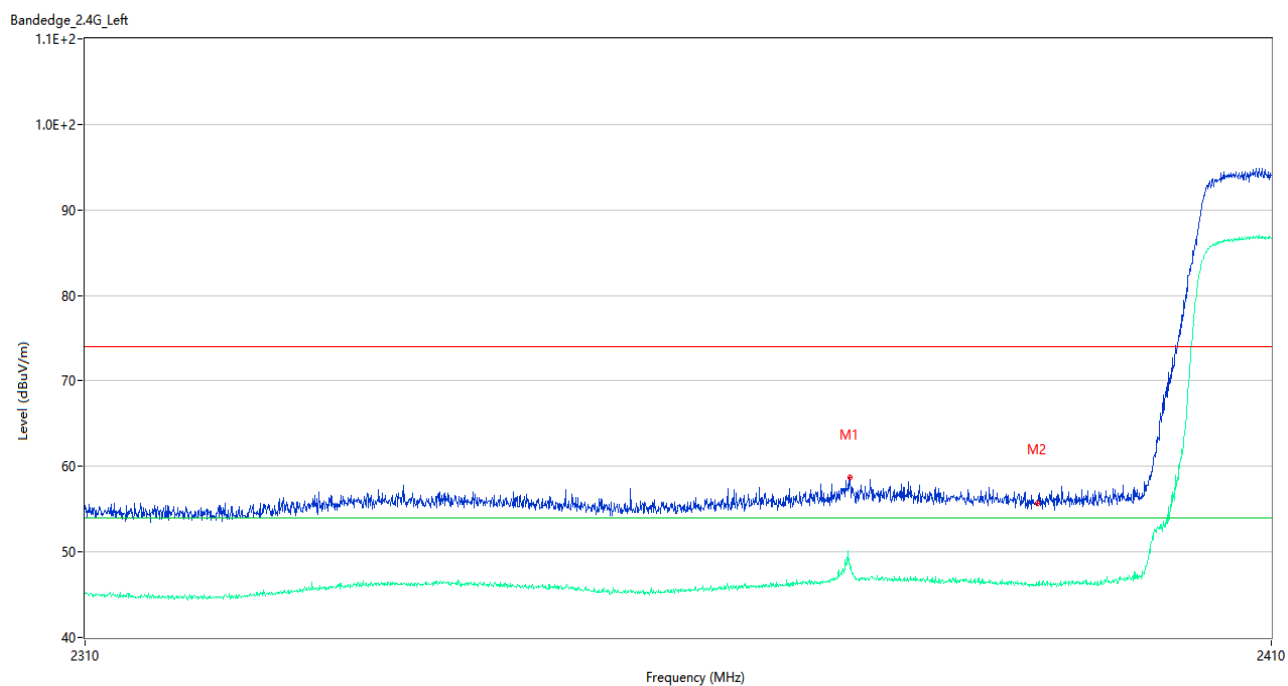
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1	2389.750	60.83	1.87	74.0	13.17	Peak	303.00	150	Vertical	Pass
1**	2389.750	46.89	1.87	54.0	7.11	AV	303.00	150	Vertical	Pass
2	2389.950	60.35	1.86	74.0	13.65	Peak	308.00	200	Vertical	Pass
2**	2389.950	47.15	1.86	54.0	6.85	AV	308.00	200	Vertical	Pass

802.11n20 HIGH CHANNEL



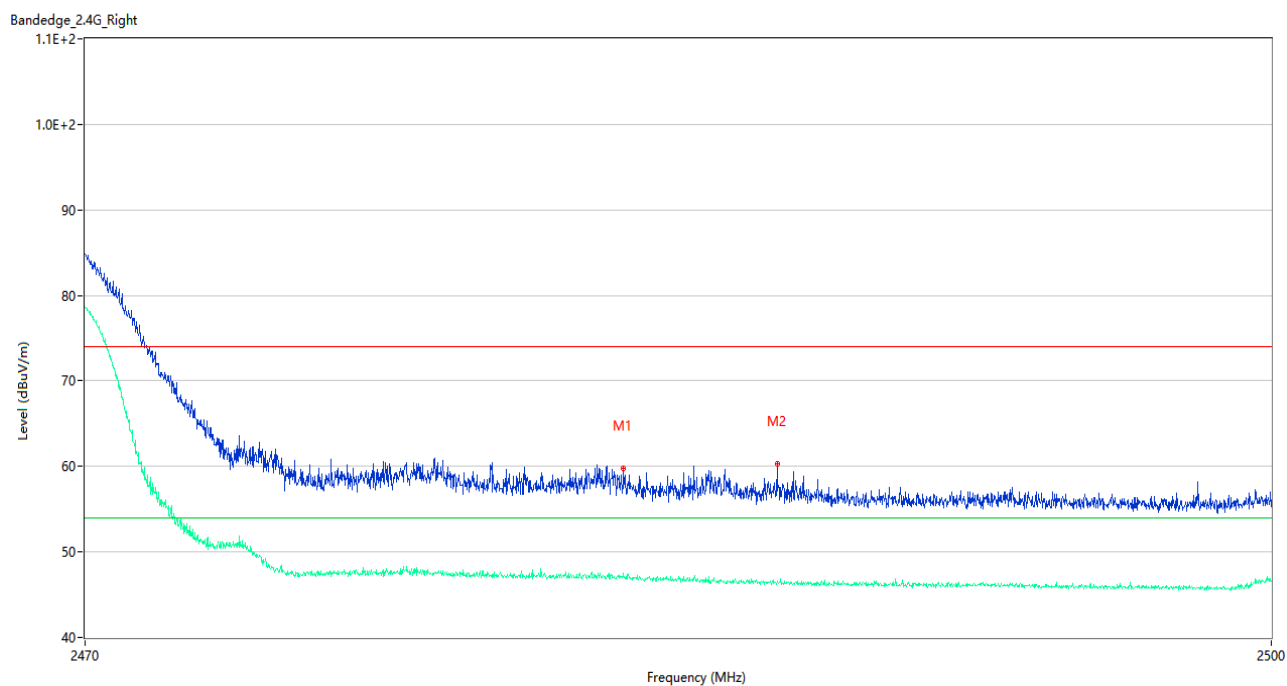
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	59.17	1.77	74.0	14.83	Peak	96.00	150	Vertical	Pass
1**	2483.500	46.93	1.77	54.0	7.07	AV	96.00	150	Vertical	Pass
2	2483.890	60.46	1.77	74.0	13.54	Peak	108.00	200	Vertical	Pass
2**	2483.890	46.77	1.77	54.0	7.23	AV	108.00	200	Vertical	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	2374.000	58.77	1.54	74.0	15.23	Peak	269.00	200	Vertical	Pass
1**	2374.000	48.02	1.54	54.0	5.98	AV	269.00	200	Vertical	Pass
2	2389.950	55.72	1.86	74.0	18.28	Peak	81.00	200	Vertical	Pass
2**	2389.950	46.21	1.86	54.0	7.79	AV	81.00	200	Vertical	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	2483.575	59.77	1.77	74.0	14.23	Peak	70.00	150	Vertical	Pass
1**	2483.575	47.49	1.77	54.0	6.51	AV	70.00	150	Vertical	Pass
2	2487.460	60.25	1.66	74.0	13.75	Peak	130.00	200	Vertical	Pass
2**	2487.460	46.42	1.66	54.0	7.58	AV	130.00	200	Vertical	Pass

A.8 Power Spectral Density (PSD)

Test Data

Main Antenna

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-20.19	8
Middle	-20.39	8
High	-21.54	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-22.97	8
Middle	-22.70	8
High	-23.01	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-23.33	8
Middle	-23.24	8
High	-23.00	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-26.46	8
Middle	-26.16	8
High	-26.10	8

Aux. Antenna

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-20.29	8
Middle	-20.31	8
High	-20.53	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-23.71	8
Middle	-23.28	8
High	-22.73	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-23.26	8
Middle	-23.38	8
High	-23.33	8

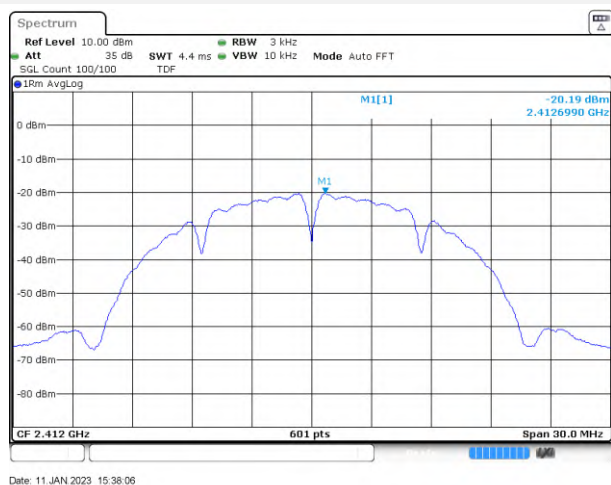
802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-26.30	8
Middle	-26.31	8
High	-26.49	8

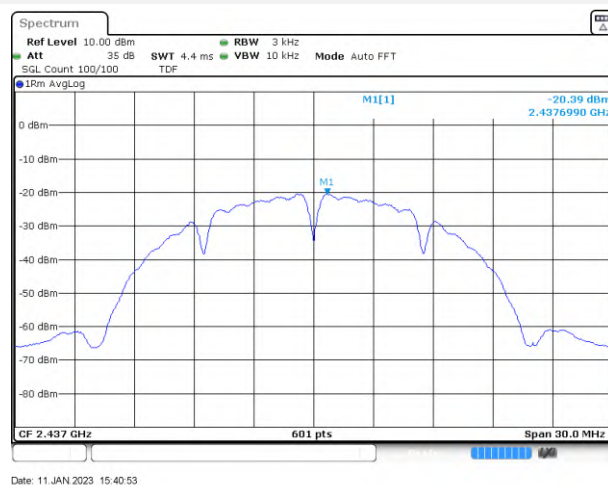
Test Plots

Main Antenna

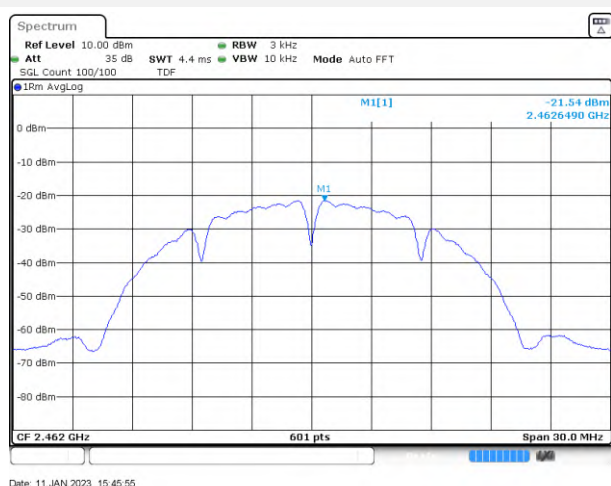
802.11b LOW CHANNEL



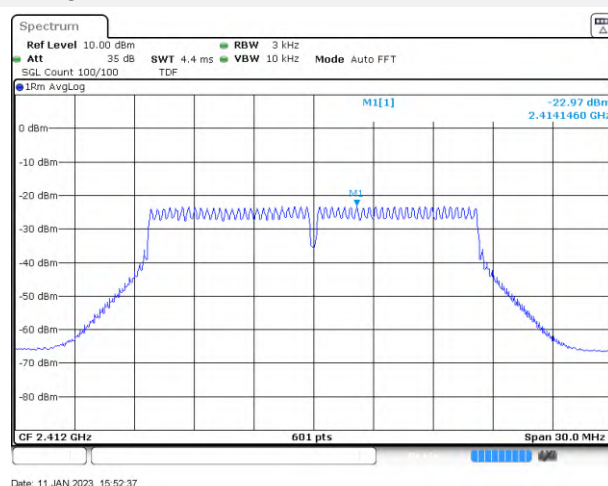
802.11b MIDDLE CHANNEL



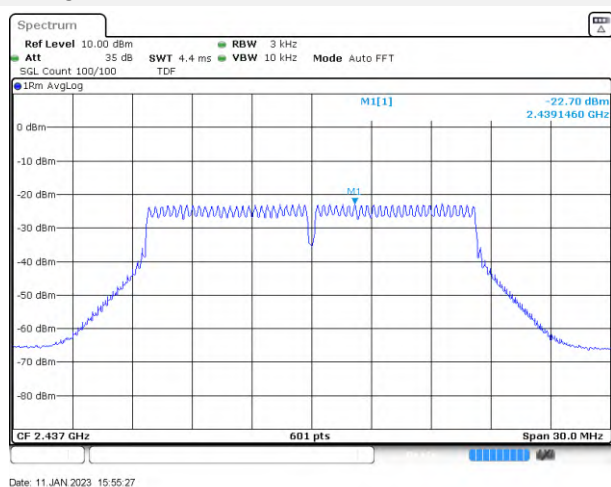
802.11b HIGH CHANNEL



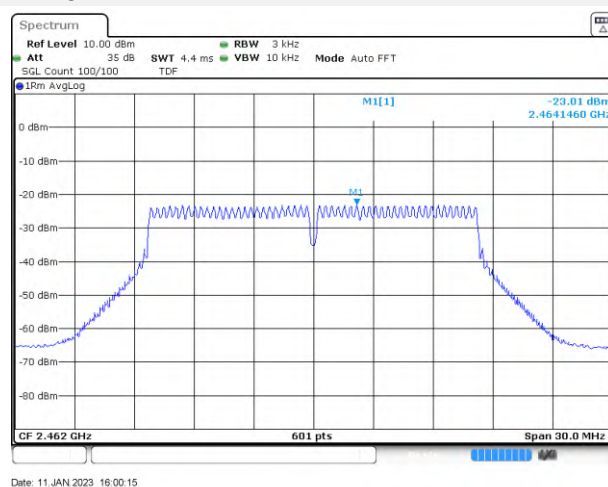
802.11g LOW CHANNEL



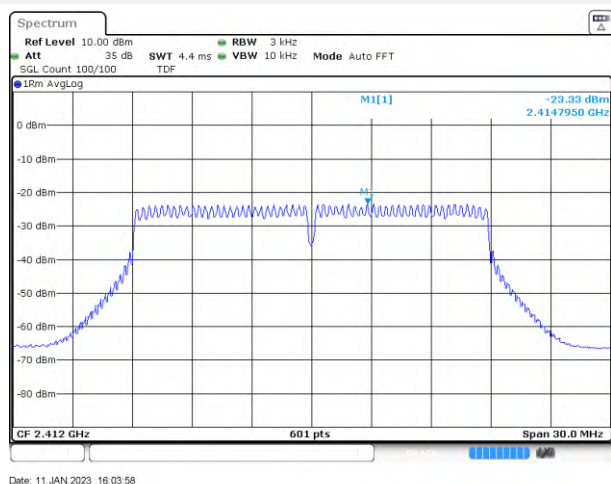
802.11g MIDDLE CHANNEL



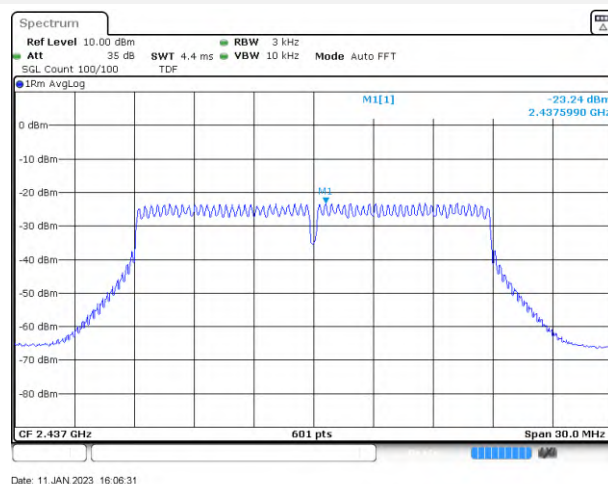
802.11g HIGH CHANNEL



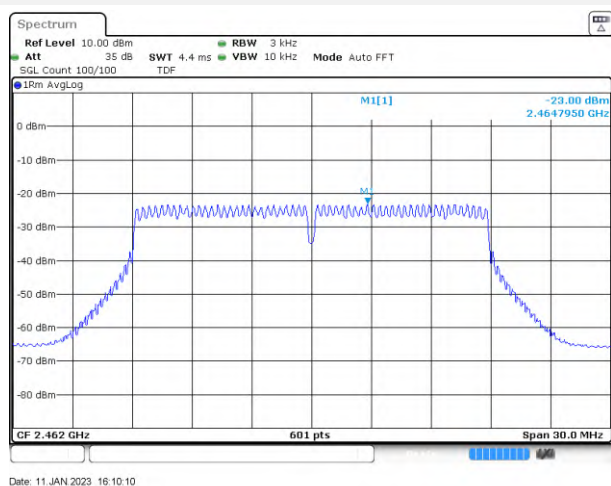
802.11n-20 MHz LOW CHANNEL



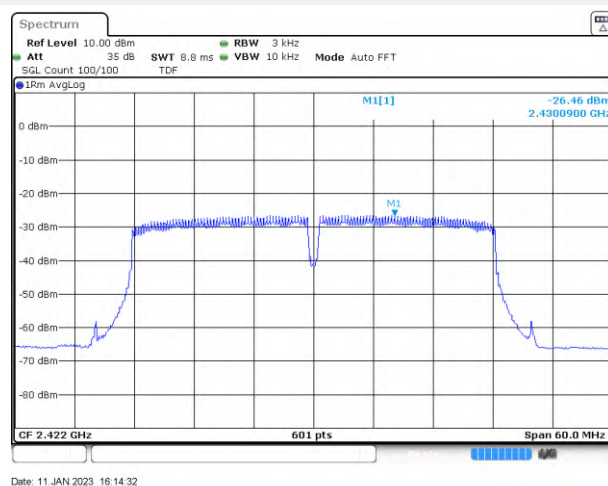
802.11n-20 MHz MIDDLE CHANNEL



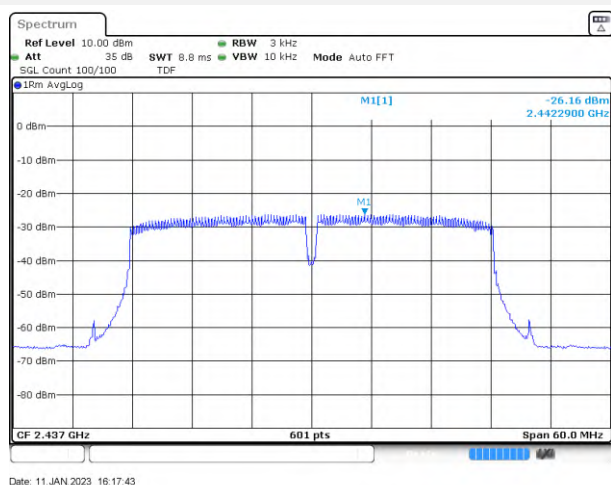
802.11n-20 MHz HIGH CHANNEL



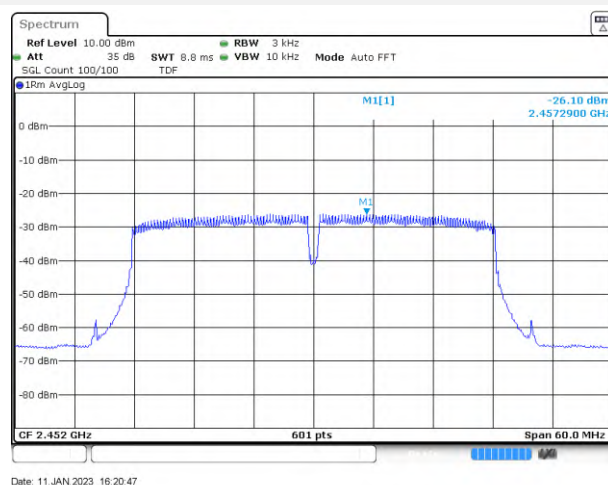
802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL

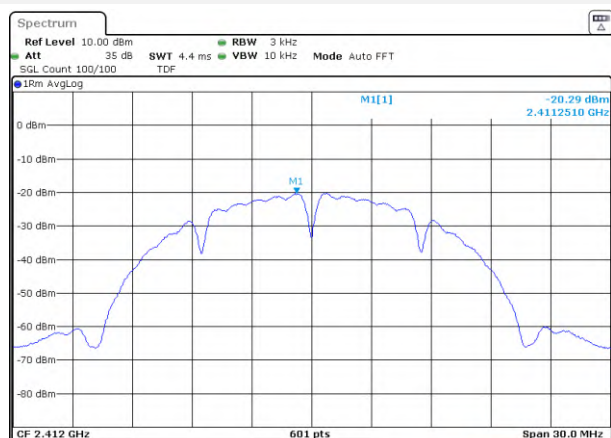


802.11n-40 MHz HIGH CHANNEL



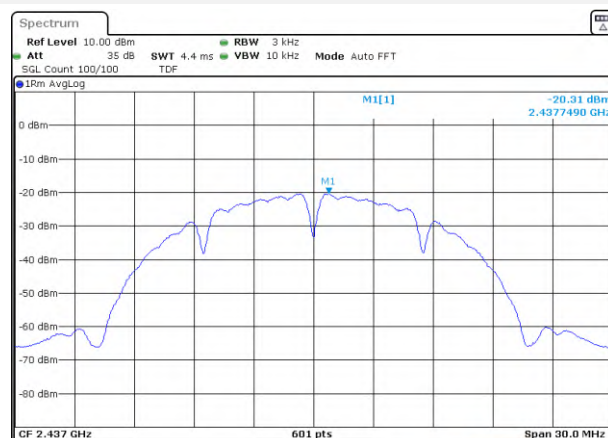
Aux. Antenna

802.11b LOW CHANNEL



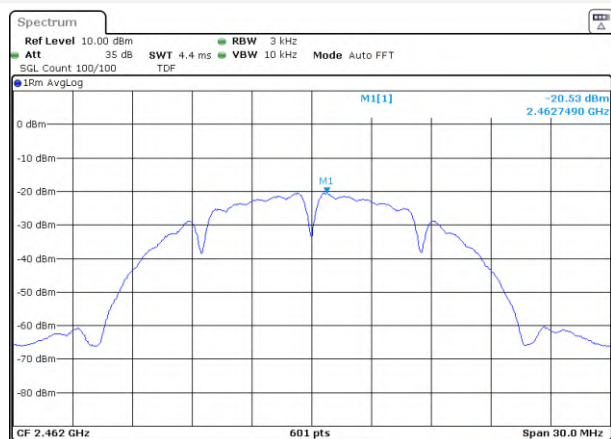
Date: 11 JAN 2023 17:16:53

802.11b MIDDLE CHANNEL



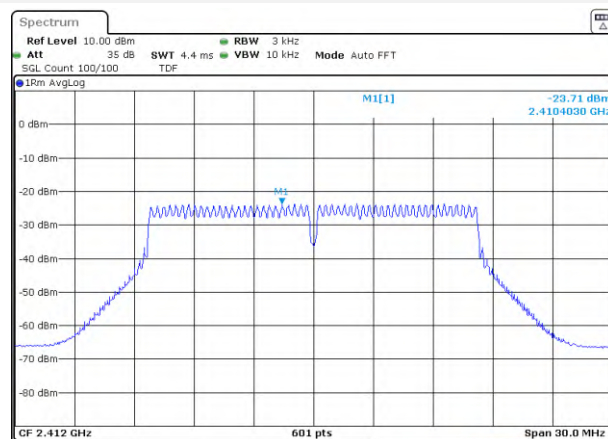
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802.11b HIGH CHANNEL



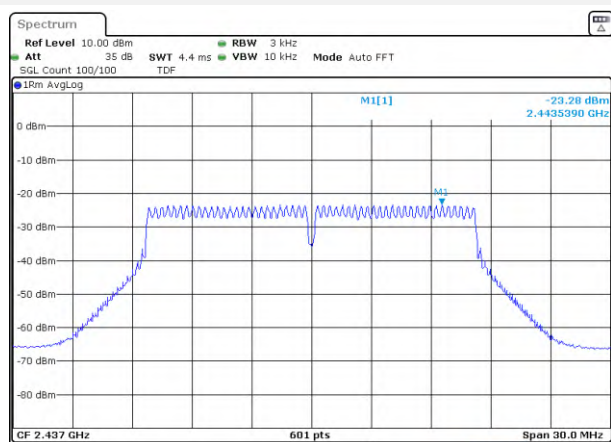
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802.11g LOW CHANNEL



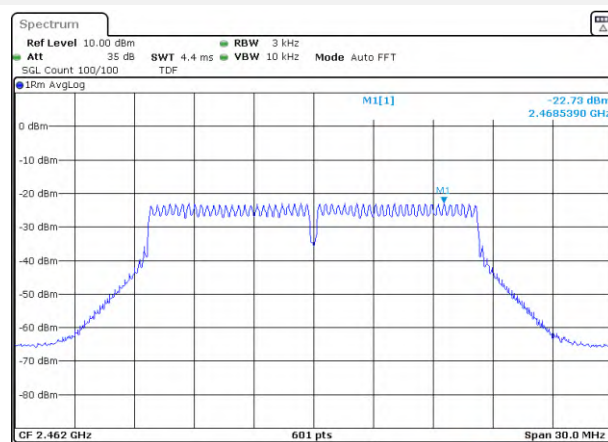
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802.11g MIDDLE CHANNEL



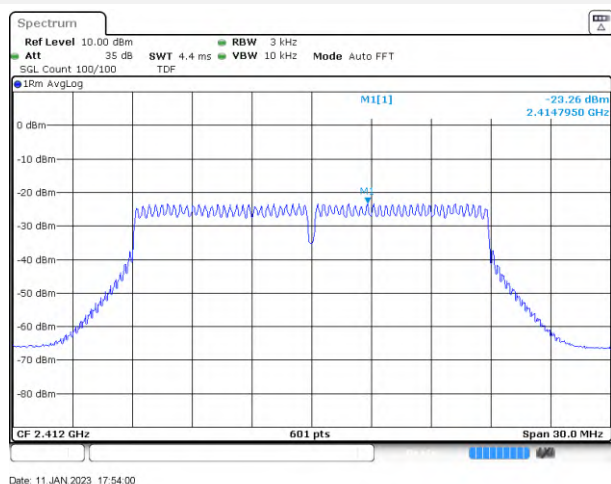
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802.11g HIGH CHANNEL

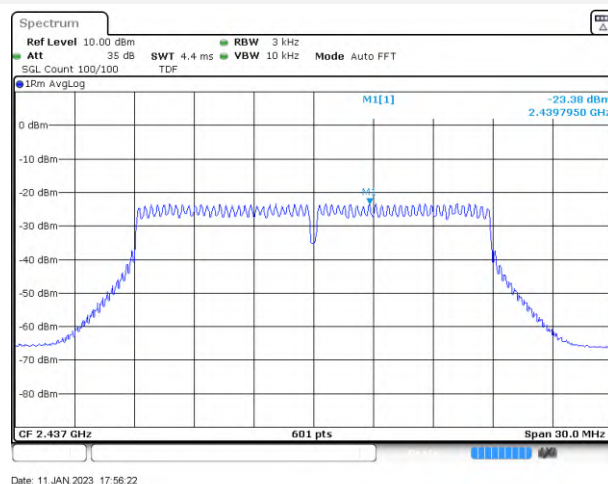


Date: 11 JAN 2023 17:43:27

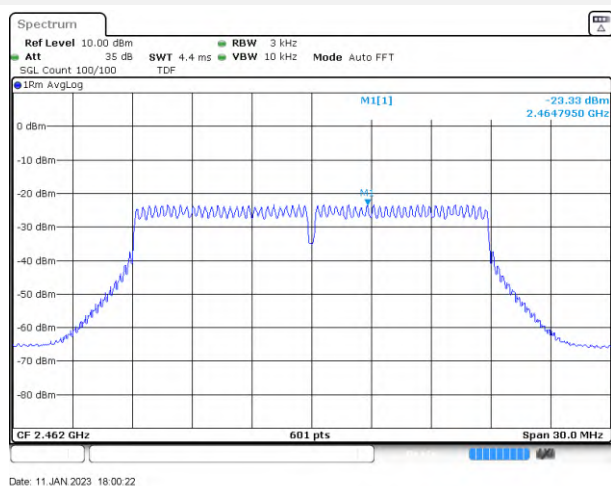
802.11n-20 MHz LOW CHANNEL



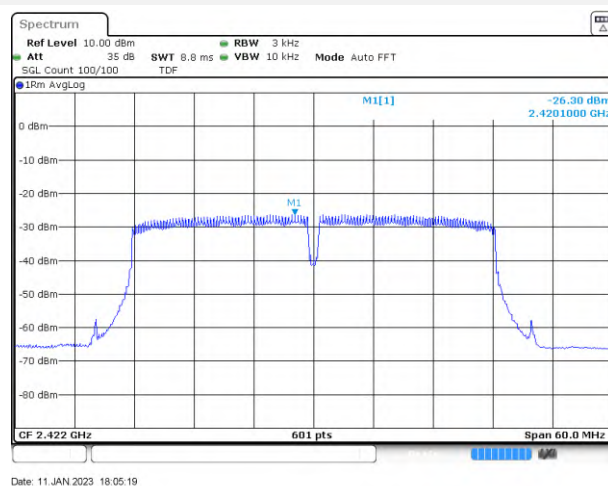
802.11n-20 MHz MIDDLE CHANNEL



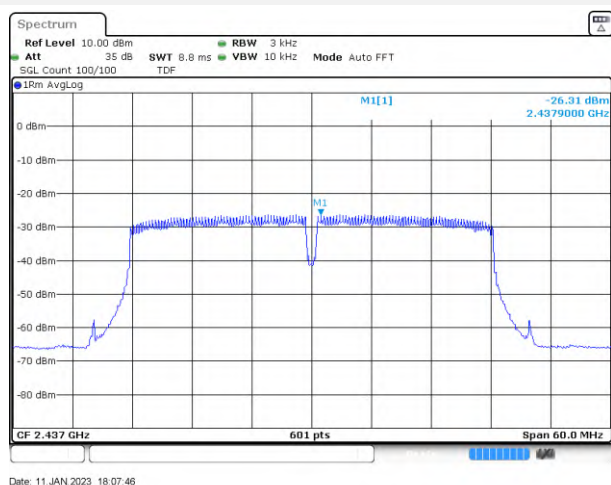
802.11n-20 MHz HIGH CHANNEL



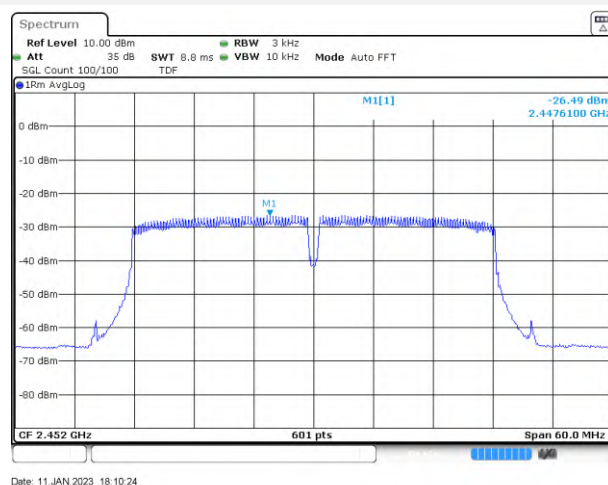
802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



802.11n-40 MHz HIGH CHANNEL



ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-EC22C0422-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-EC22C0422-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-EC22C0422-AI.PDF”.

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