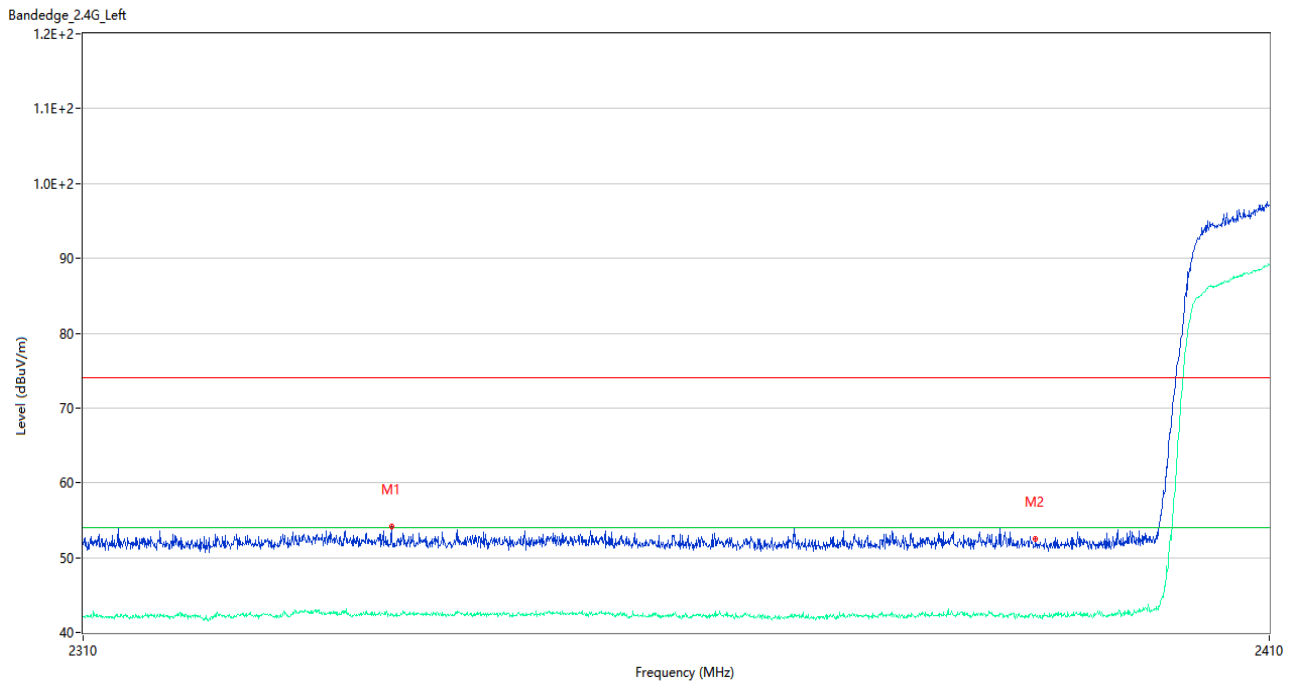
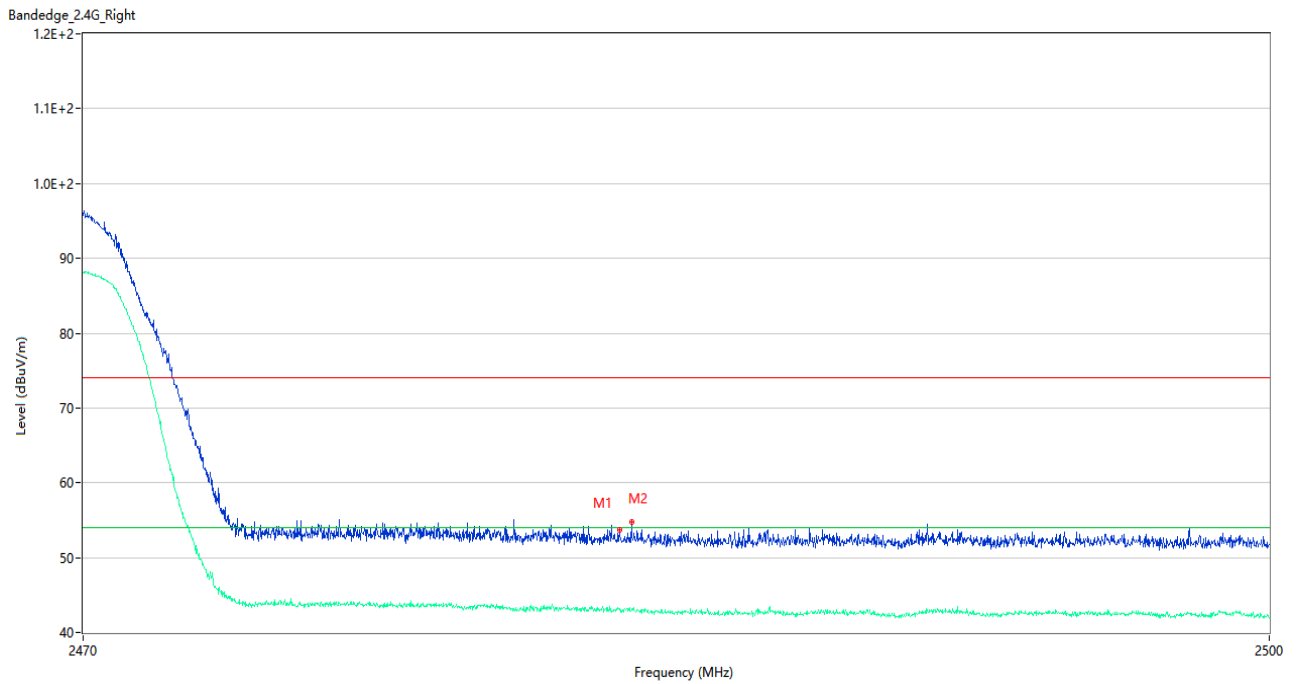


802.11n20 LOW CHANNEL



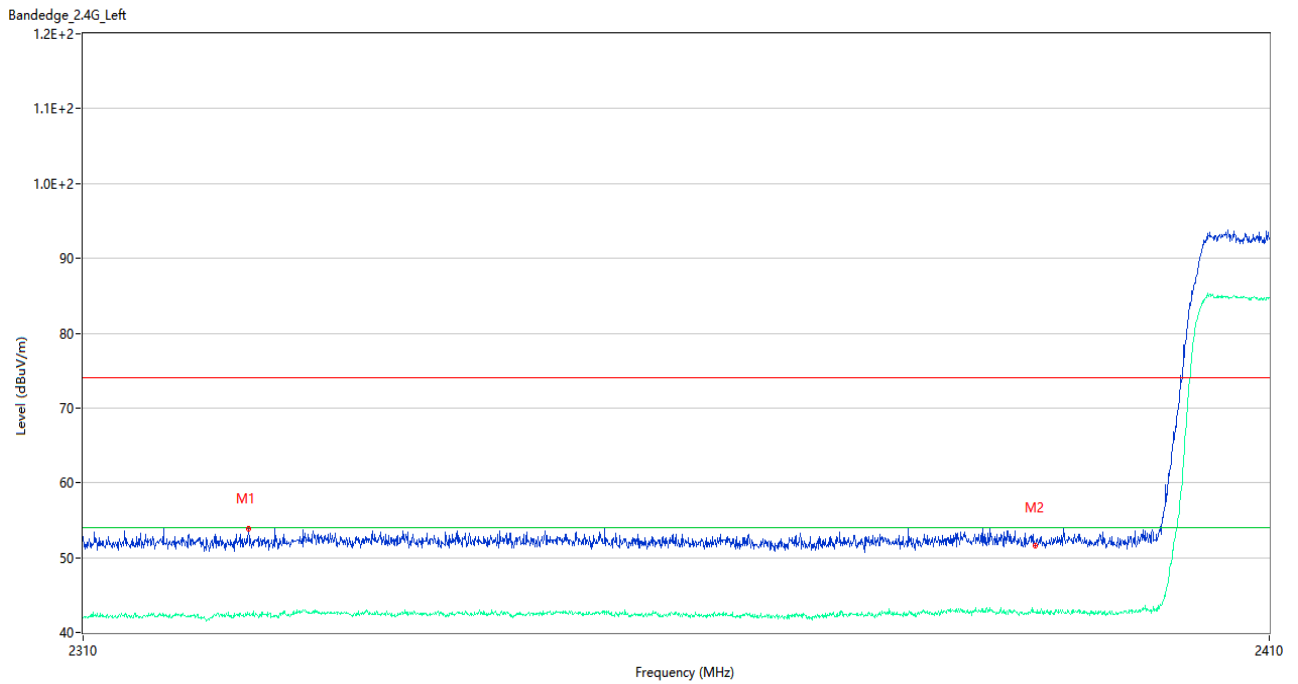
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2335.600	54.12	-1.14	74.0	19.88	Peak	349.00	150	Horizontal	Pass
1**	2335.600	42.47	-1.14	54.0	11.53	AV	349.00	150	Horizontal	Pass
2	2389.950	52.52	-1.82	74.0	21.48	Peak	306.00	100	Horizontal	Pass
2**	2389.950	42.43	-1.82	54.0	11.57	AV	306.00	100	Horizontal	Pass

802.11n20 HIGH CHANNEL



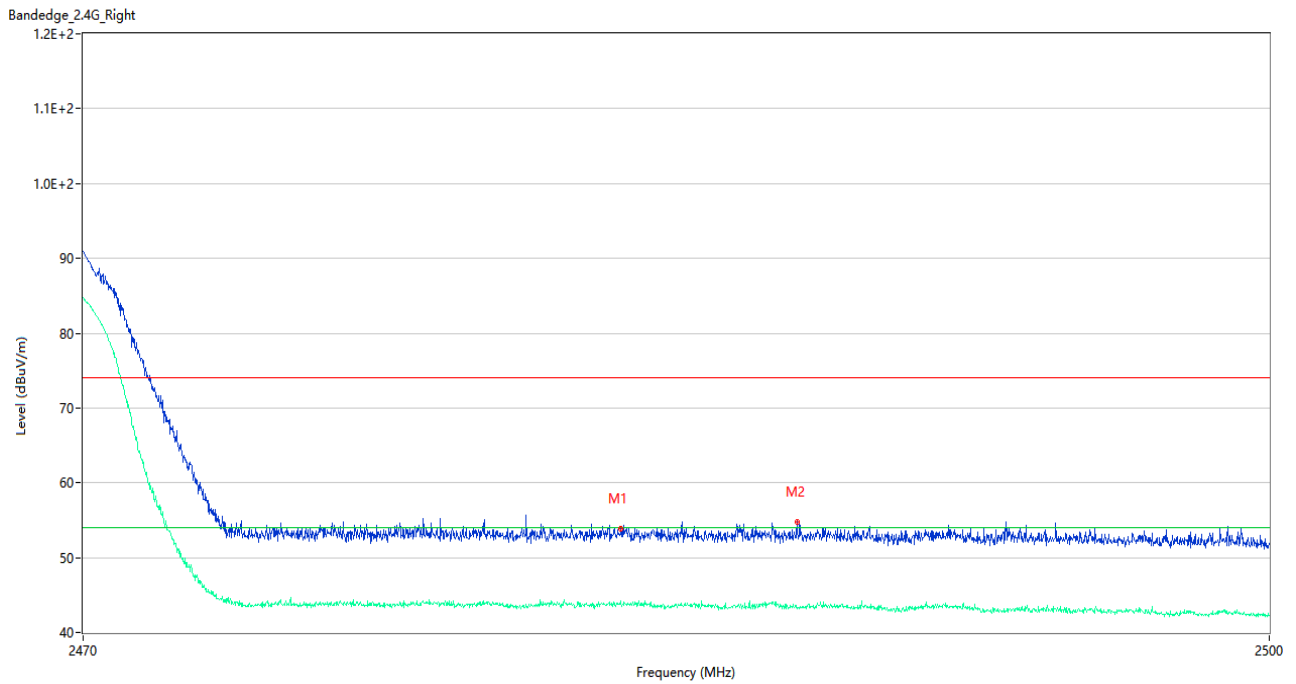
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.515	53.74	-1.10	74.0	20.26	Peak	308.00	150	Horizontal	Pass
1**	2483.515	42.96	-1.10	54.0	11.04	AV	308.00	150	Horizontal	Pass
2	2483.830	54.73	-1.04	74.0	19.27	Peak	110.00	150	Horizontal	Pass
2**	2483.830	42.95	-1.04	54.0	11.05	AV	110.00	150	Horizontal	Pass

802.11n40 LOW CHANNEL



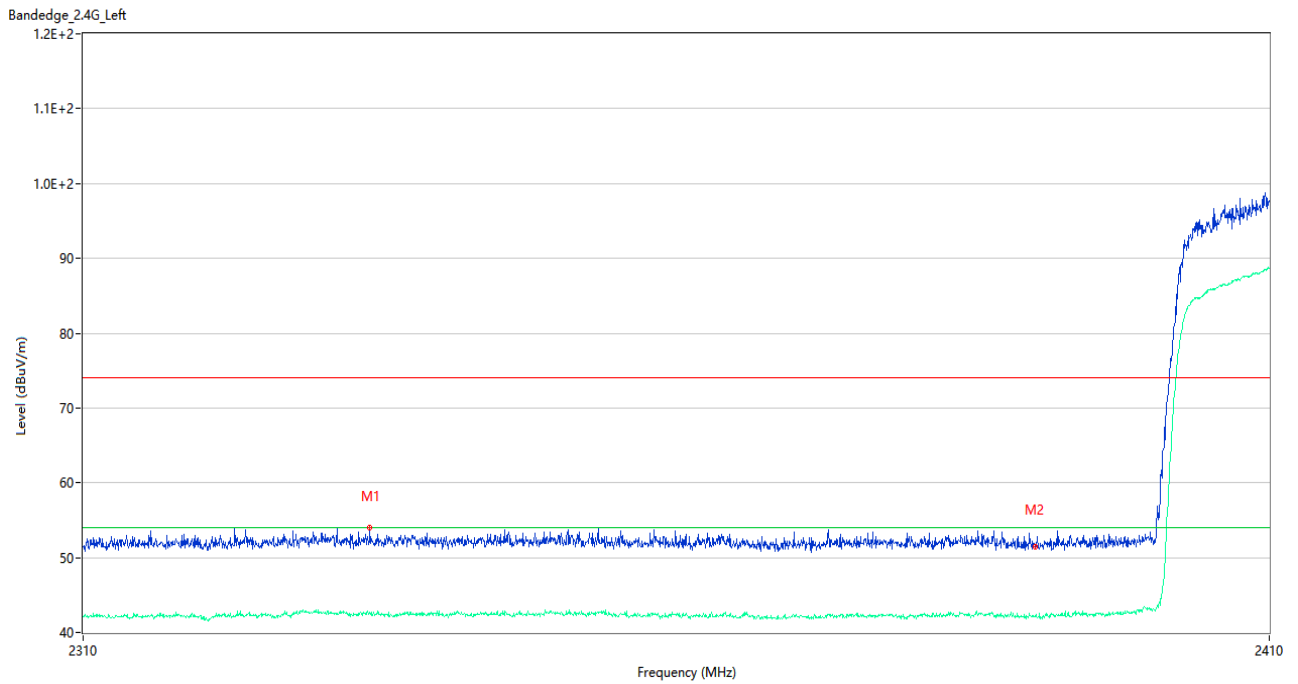
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2323.700	53.93	-1.07	74.0	20.07	Peak	129.00	150	Horizontal	Pass
1**	2323.700	42.47	-1.07	54.0	11.53	AV	129.00	150	Horizontal	Pass
2	2389.950	51.65	-1.82	74.0	22.35	Peak	23.00	100	Horizontal	Pass
2**	2389.950	42.78	-1.82	54.0	11.22	AV	23.00	100	Horizontal	Pass

802.11n40 HIGH CHANNEL



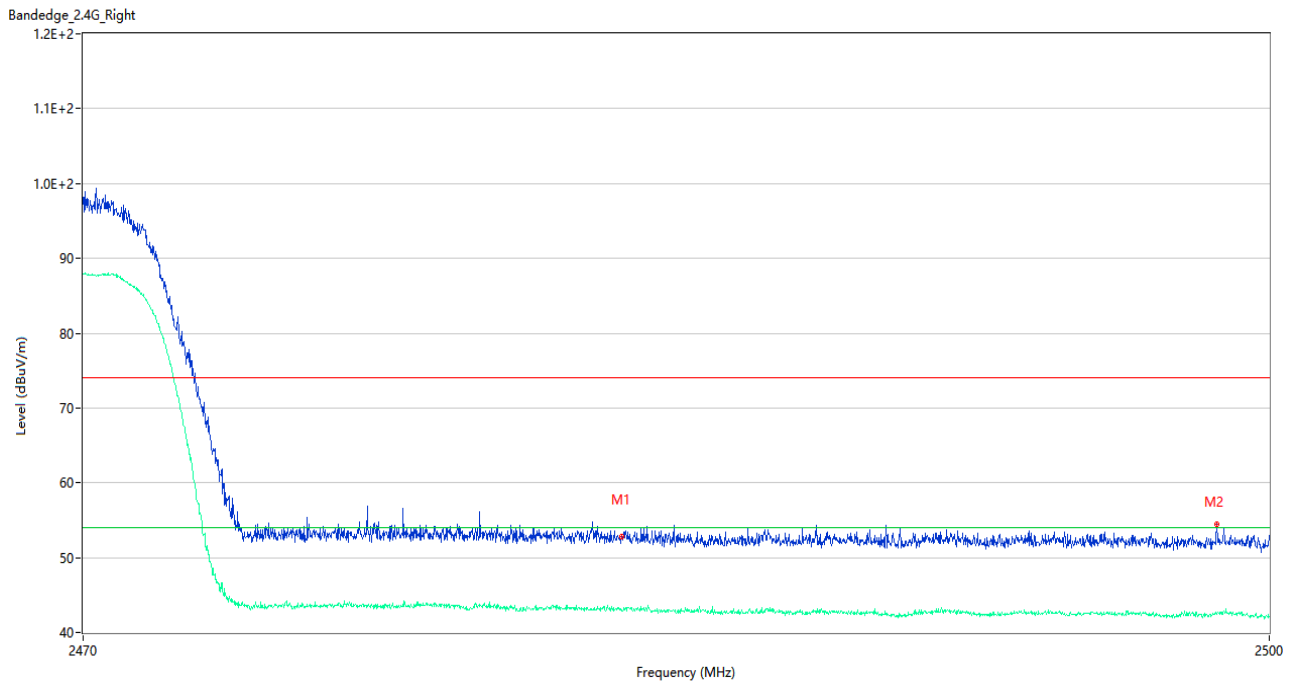
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.560	53.86	-1.09	74.0	20.14	Peak	308.00	100	Horizontal	Pass
1**	2483.560	43.80	-1.09	54.0	10.20	AV	308.00	100	Horizontal	Pass
2	2488.015	54.75	-1.13	74.0	19.25	Peak	79.00	150	Horizontal	Pass
2**	2488.015	43.38	-1.13	54.0	10.62	AV	79.00	150	Horizontal	Pass

802.11ax20(SU) LOW CHANNEL



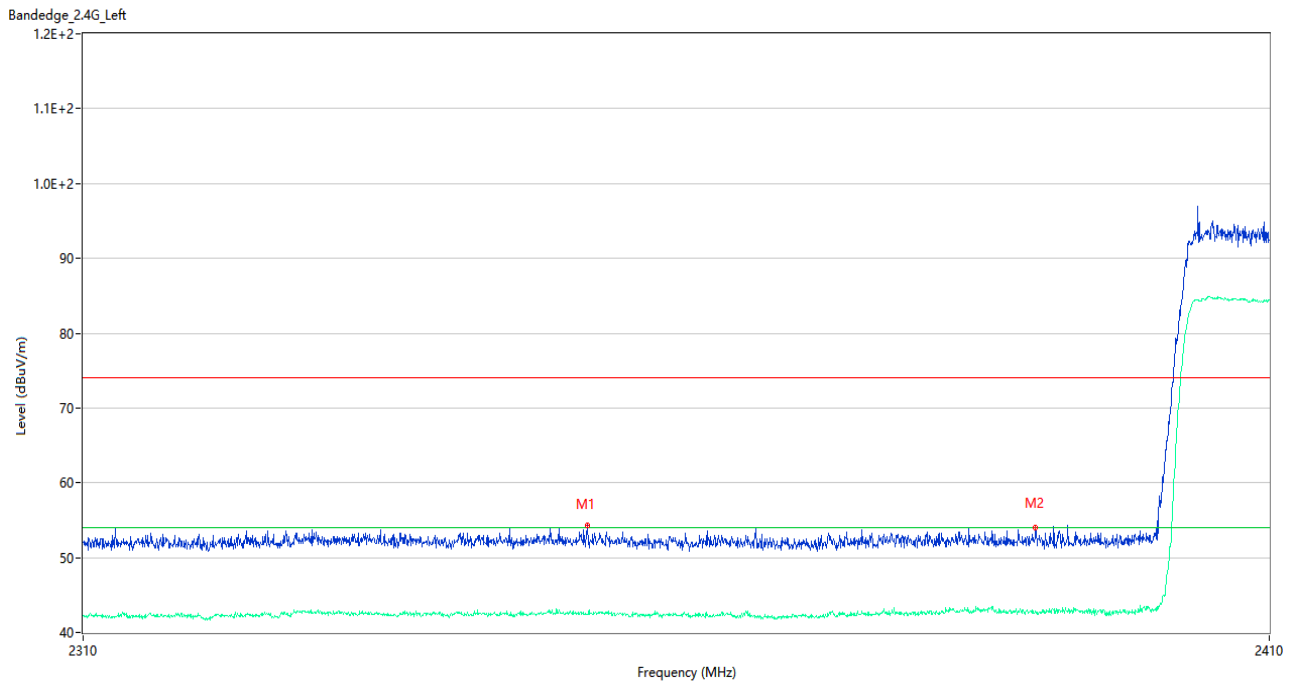
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2333.800	54.03	-1.00	74.0	19.97	Peak	93.00	100	Horizontal	Pass
1**	2333.800	42.63	-1.00	54.0	11.37	AV	93.00	100	Horizontal	Pass
2	2389.950	51.43	-1.82	74.0	22.57	Peak	83.00	100	Horizontal	Pass
2**	2389.950	42.05	-1.82	54.0	11.95	AV	83.00	100	Horizontal	Pass

802.11 ax20(SU) HIGH CHANNEL



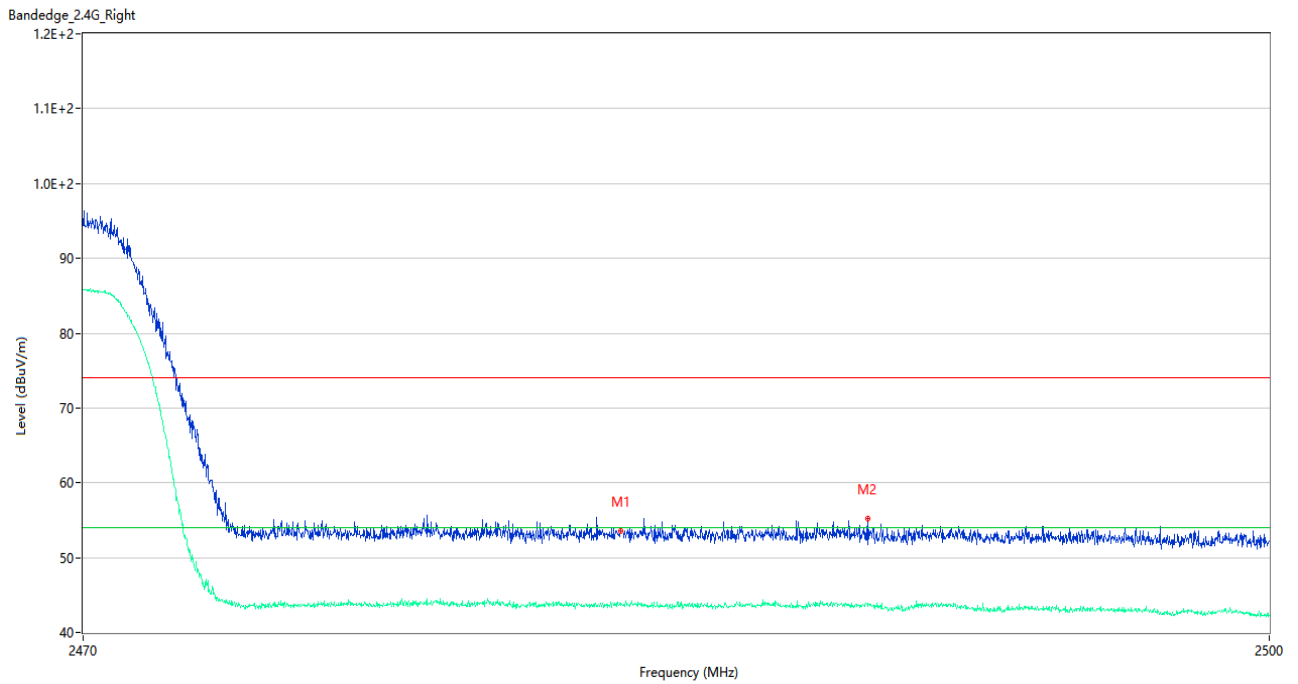
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.575	52.77	-1.09	74.0	21.23	Peak	62.00	100	Horizontal	Pass
1**	2483.575	42.93	-1.09	54.0	11.07	AV	62.00	100	Horizontal	Pass
2	2498.665	54.44	-0.96	74.0	19.56	Peak	258.00	150	Horizontal	Pass
2**	2498.665	42.39	-0.96	54.0	11.61	AV	258.00	150	Horizontal	Pass

802.11ax40(SU) LOW CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2352.000	54.30	-1.07	74.0	19.70	Peak	76.00	150	Horizontal	Pass
1**	2352.000	42.42	-1.07	54.0	11.58	AV	76.00	150	Horizontal	Pass
2	2389.950	54.02	-1.82	74.0	19.98	Peak	76.00	200	Horizontal	Pass
2**	2389.950	42.82	-1.82	54.0	11.18	AV	76.00	200	Horizontal	Pass

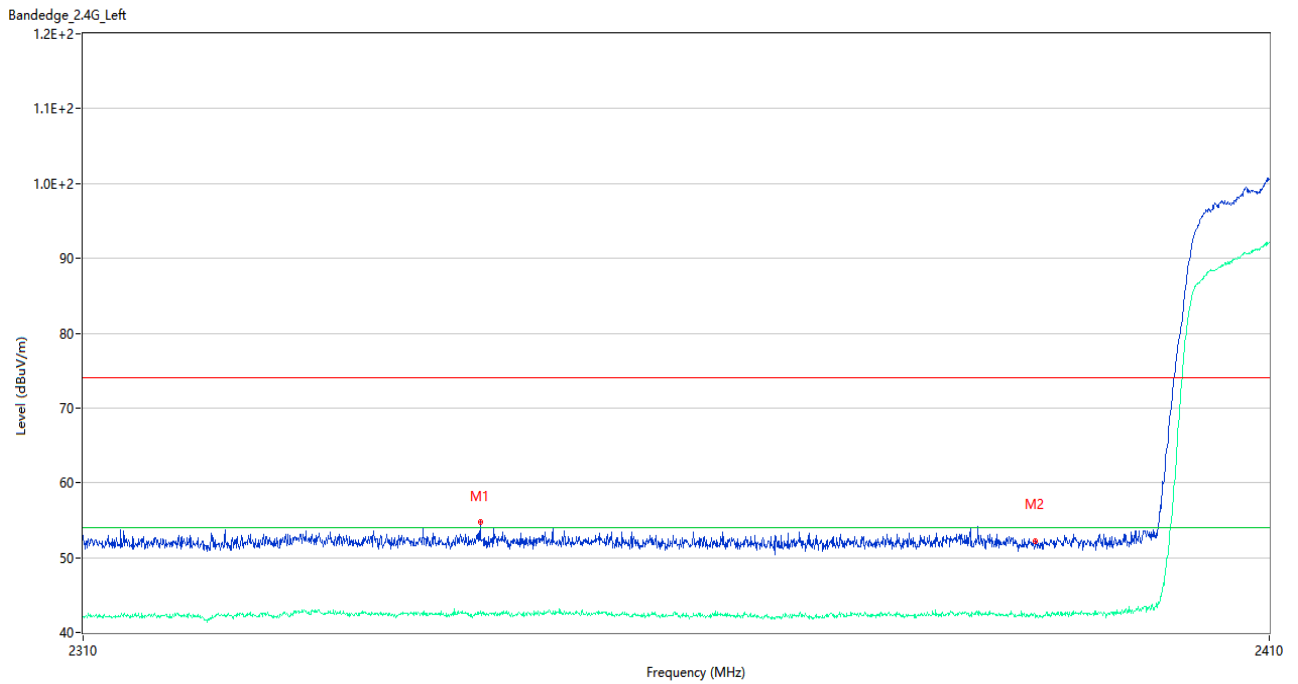
802.11 ax40(SU) HIGH CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.545	53.62	-1.09	74.0	20.38	Peak	75.00	200	Horizontal	Pass
1**	2483.545	43.66	-1.09	54.0	10.34	AV	75.00	200	Horizontal	Pass
2	2489.815	55.17	-0.91	74.0	18.83	Peak	103.00	100	Horizontal	Pass
2**	2489.815	43.48	-0.91	54.0	10.52	AV	103.00	100	Horizontal	Pass

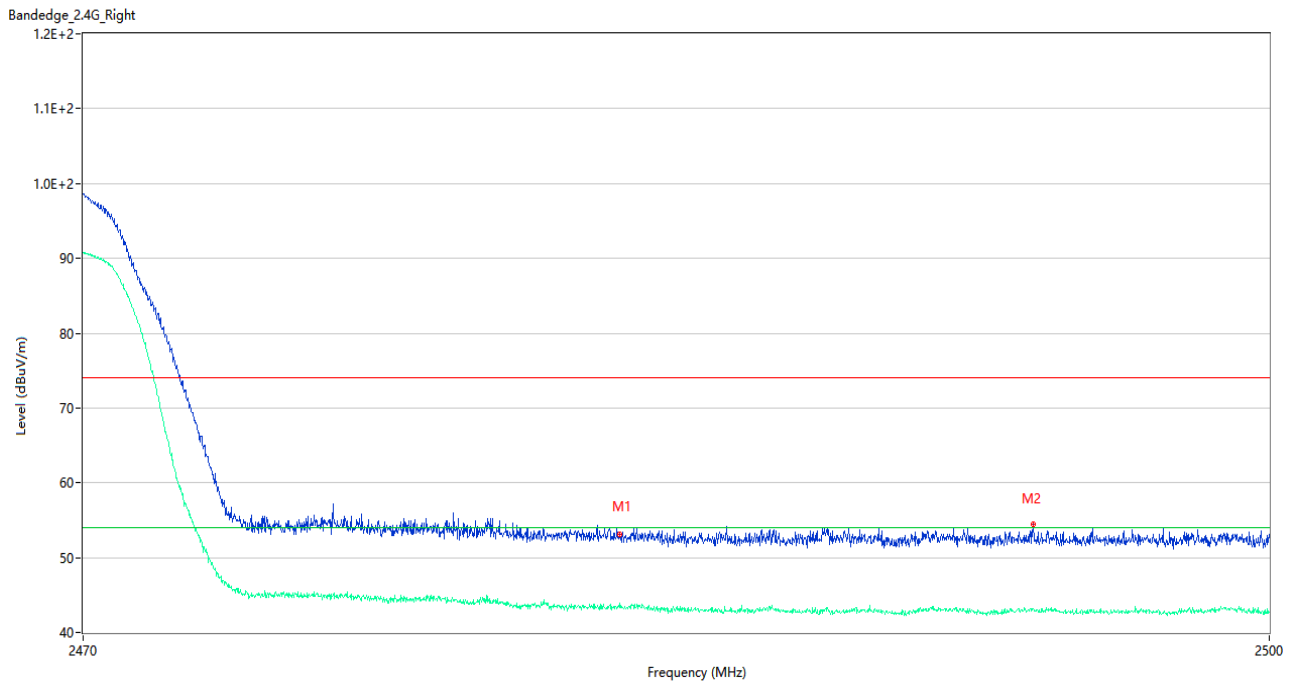
MIMO

802.11n20 LOW CHANNEL



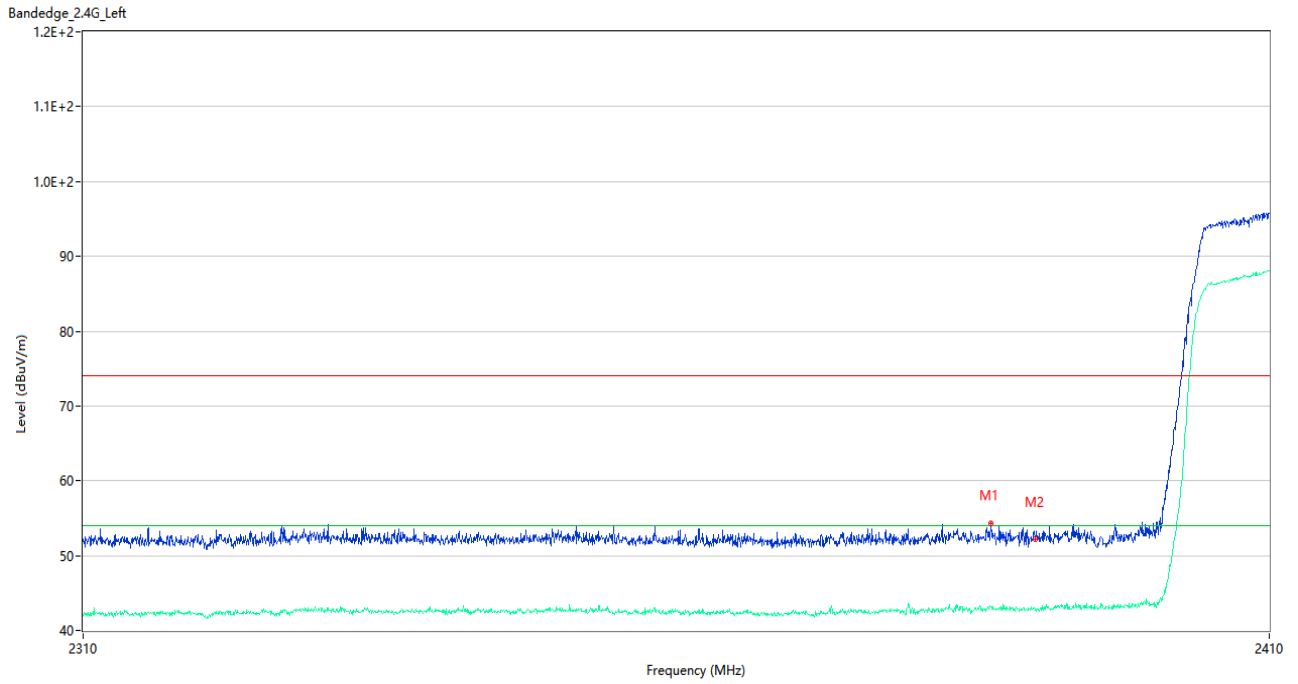
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2343.000	54.84	-0.90	74.0	19.16	Peak	208.00	200	Horizontal	Pass
1**	2343.000	42.60	-0.90	54.0	11.40	AV	208.00	200	Horizontal	Pass
2	2389.950	52.22	-1.82	74.0	21.78	Peak	18.00	150	Horizontal	Pass
2**	2389.950	41.99	-1.82	54.0	12.01	AV	18.00	150	Horizontal	Pass

802.11n20 HIGH CHANNEL



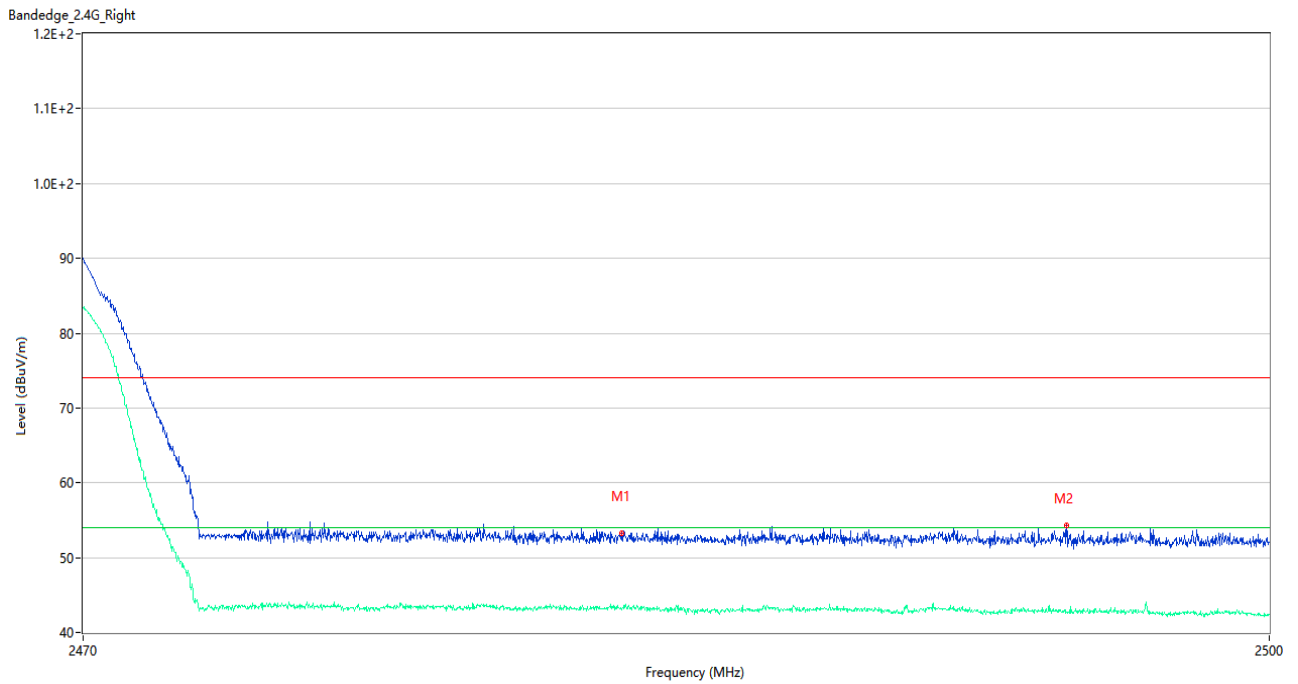
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.515	53.09	-1.10	74.0	20.91	Peak	118.00	100	Horizontal	Pass
1**	2483.515	43.27	-1.10	54.0	10.73	AV	118.00	100	Horizontal	Pass
2	2494.000	54.48	-0.91	74.0	19.52	Peak	77.00	150	Horizontal	Pass
2**	2494.000	43.14	-0.91	54.0	10.86	AV	77.00	150	Horizontal	Pass

802.11n40 LOW CHANNEL



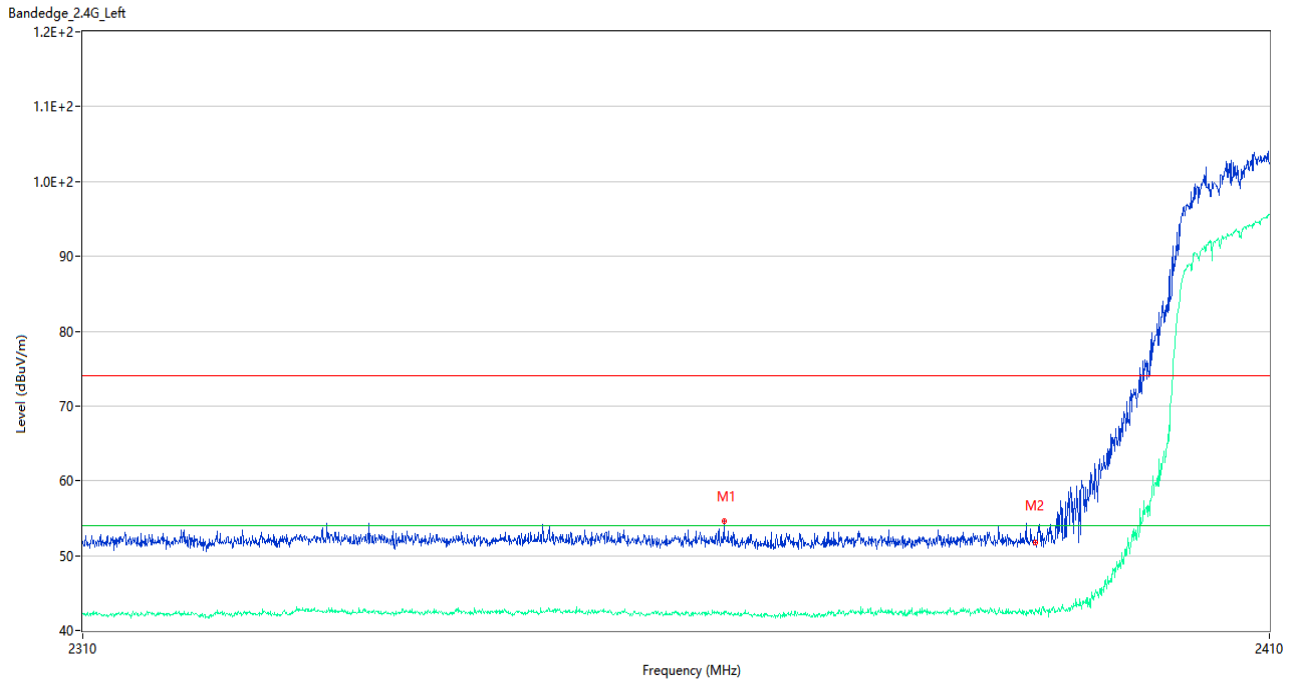
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2386.150	54.36	-1.33	74.0	19.64	Peak	271.00	150	Horizontal	Pass
1**	2386.150	43.09	-1.33	54.0	10.91	AV	271.00	150	Horizontal	Pass
2	2389.950	52.25	-1.82	74.0	21.75	Peak	104.00	200	Horizontal	Pass
2**	2389.950	42.72	-1.82	54.0	11.28	AV	104.00	200	Horizontal	Pass

802.11n40 HIGH CHANNEL



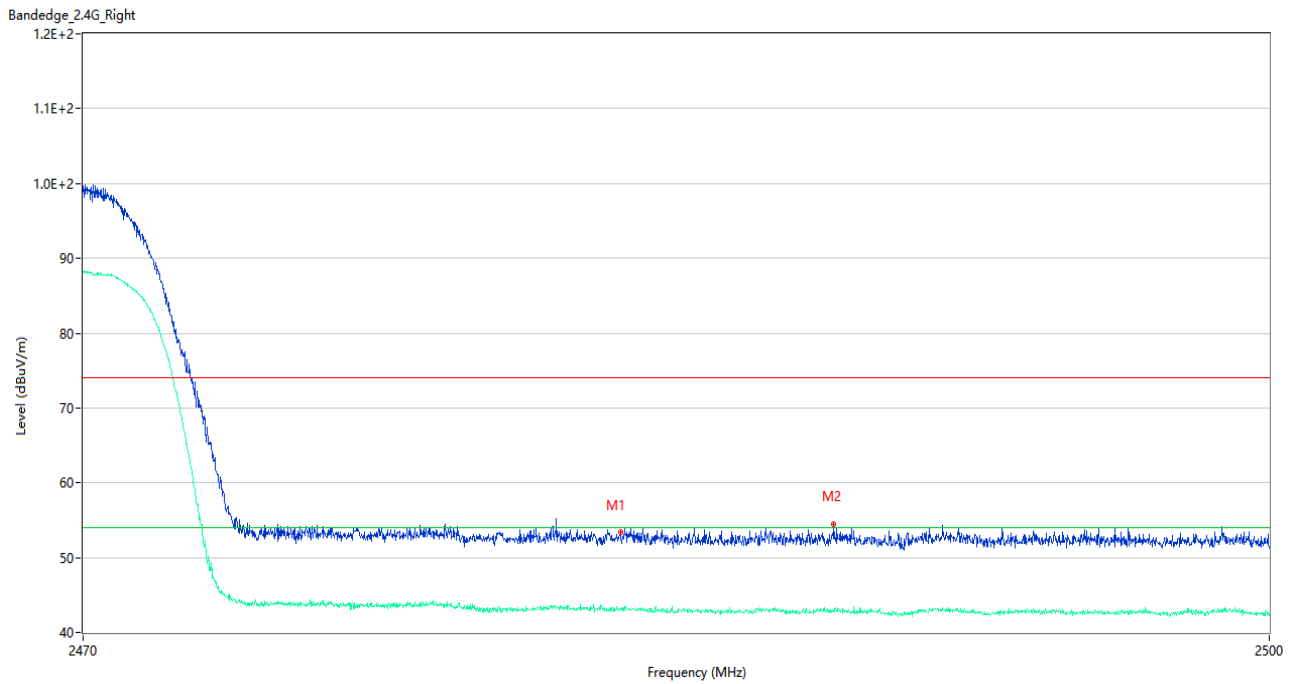
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.575	53.27	-1.09	74.0	20.73	Peak	42.00	200	Horizontal	Pass
1**	2483.575	43.09	-1.09	54.0	10.91	AV	42.00	200	Horizontal	Pass
2	2494.840	54.38	-0.97	74.0	19.62	Peak	78.00	150	Horizontal	Pass
2**	2494.840	42.71	-0.97	54.0	11.29	AV	78.00	150	Horizontal	Pass

802.11ax20(SU) LOW CHANNEL



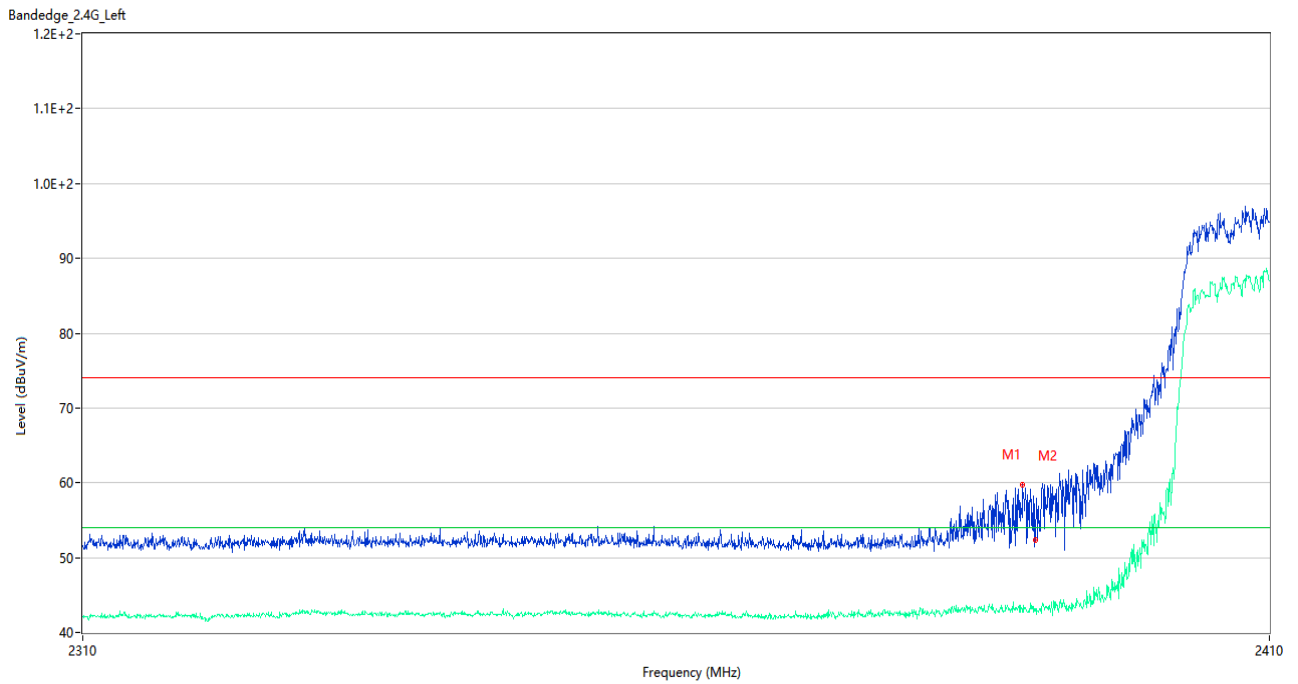
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2363.500	54.59	-1.38	74.0	19.41	Peak	137.00	150	Horizontal	Pass
1**	2363.500	42.18	-1.38	54.0	11.82	AV	137.00	150	Horizontal	Pass
2	2389.950	51.74	-1.82	74.0	22.26	Peak	74.00	100	Horizontal	Pass
2**	2389.950	42.83	-1.82	54.0	11.17	AV	74.00	100	Horizontal	Pass

802.11 ax20(SU) HIGH CHANNEL



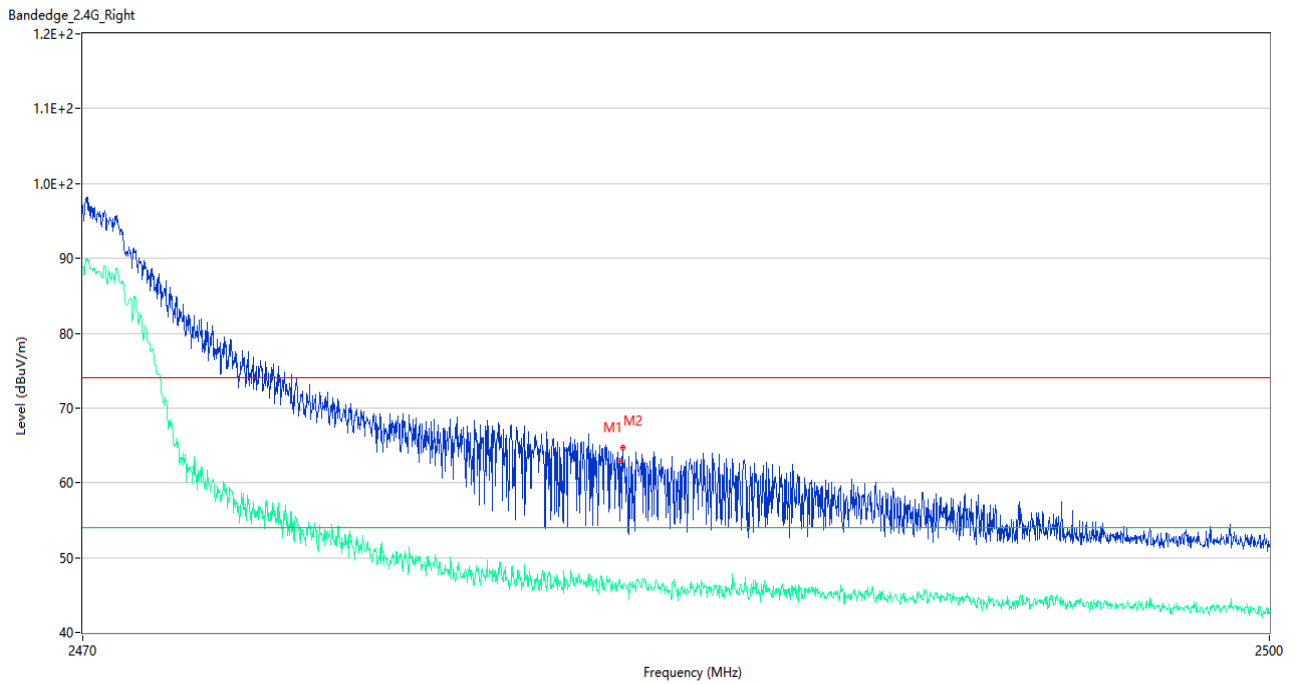
No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.545	53.40	-1.09	74.0	20.60	Peak	90.00	150	Horizontal	Pass
1**	2483.545	43.19	-1.09	54.0	10.81	AV	90.00	150	Horizontal	Pass
2	2488.945	54.43	-0.86	74.0	19.57	Peak	307.00	100	Horizontal	Pass
2**	2488.945	42.65	-0.86	54.0	11.35	AV	307.00	100	Horizontal	Pass

802.11ax40(SU) LOW CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2388.850	59.76	-1.85	74.0	14.24	Peak	76.00	100	Horizontal	Pass
1**	2388.850	42.75	-1.85	54.0	11.25	AV	76.00	100	Horizontal	Pass
2	2389.950	52.30	-1.82	74.0	21.70	Peak	256.00	150	Horizontal	Pass
2**	2389.950	43.15	-1.82	54.0	10.85	AV	256.00	150	Horizontal	Pass

802.11 ax40(SU) HIGH CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.530	62.95	-1.10	74.0	11.05	Peak	96.00	200	Horizontal	Pass
1**	2483.530	47.11	-1.10	54.0	6.89	AV	96.00	200	Horizontal	Pass
2	2483.605	64.64	-1.08	74.0	9.36	Peak	91.00	150	Horizontal	Pass
2**	2483.605	45.94	-1.08	54.0	8.06	AV	91.00	150	Horizontal	Pass

5.9 Power Spectral density (PSD)

5.9.1 Limit

FCC §15.247(e)

The same method of determining the conducted output power shall be used to determine the power spectral density. If a peak output power is measured, then a peak power spectral density measurement is required. If an average output power is measured, then an average power spectral density measurement should be used.

5.9.2 Test Setup

See section 4.5.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX A.

5.9.3 Test Procedure

Set analyzer center frequency to DTS channel center frequency.

Set the span to 1.5 times the DTS bandwidth.

Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.

Set the VBW $\geq 3 \text{ RBW}$.

Detector = peak.

Sweep time = auto couple.

Trace mode = max hold.

Allow trace to fully stabilize.

Use the peak marker function to determine the maximum amplitude level within the RBW.

If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.9.4 Test Result

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

Test DataAntenna 0

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-11.68	8
Middle	-10.49	8
High	-11.06	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-13.00	8
Middle	-13.87	8
High	-13.12	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-16.50	8
Middle	-16.12	8
High	-15.95	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-17.08	8
Middle	-18.17	8
High	-17.31	8

802.11ax-20 MHz(SU) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-15.10	8
Middle	-14.86	8
High	-15.05	8

802.11ax-40 MHz(SU) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-18.29	8
Middle	-18.48	8
High	-18.16	8

Antenna 1

802.11b Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-10.42	8
Middle	-10.97	8
High	-10.50	8

802.11g Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-14.34	8
Middle	-14.53	8
High	-14.26	8

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-17.10	8
Middle	-17.15	8
High	-16.55	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-17.46	8
Middle	-17.15	8
High	-17.55	8

802.11ax-20 MHz(SU) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-15.42	8
Middle	-14.67	8
High	-14.89	8

802.11ax-40 MHz(SU) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-18.15	8
Middle	-17.96	8
High	-17.80	8

MIMO-Antenna 0

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-14.92	8
Middle	-13.79	8
High	-14.60	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-17.39	8
Middle	-17.52	8
High	-16.48	8

802.11ax-20 MHz(SU) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-15.37	8
Middle	-15.36	8
High	-15.26	8

802.11ax-40 MHz(SU) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-18.20	8
Middle	-18.14	8
High	-18.04	8

MIMO-Antenna 1

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-17.29	8
Middle	-16.78	8
High	-14.11	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-18.08	8
Middle	-18.20	8
High	-17.52	8

802.11ax-20 MHz(SU) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-15.01	8
Middle	-14.26	8
High	-14.70	8

802.11ax-40 MHz(SU) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-17.49	8
Middle	-17.86	8
High	-17.92	8

MIMO

802.11n-20 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-12.94	8
Middle	-12.02	8
High	-11.34	8

802.11n-40 MHz Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-14.71	8
Middle	-14.84	8
High	-13.95	8

802.11ax-20 MHz(SU) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-12.17	8
Middle	-11.77	8
High	-11.96	8

802.11ax-40 MHz(SU) Mode:

Channel	Spectral power density (dBm/3kHz)	Limit (dBm/3kHz)
Low	-14.82	8
Middle	-14.99	8
High	-14.97	8

Test Plots
Antenna 0

802.11b LOW CHANNEL



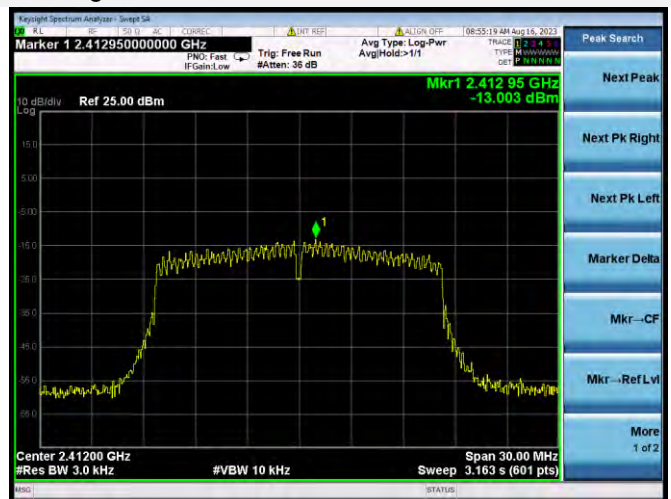
802.11b MIDDLE CHANNEL



802.11b HIGH CHANNEL



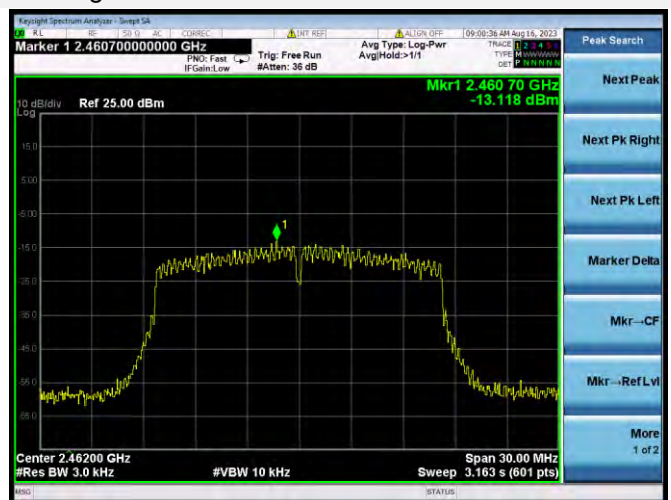
802.11g LOW CHANNEL



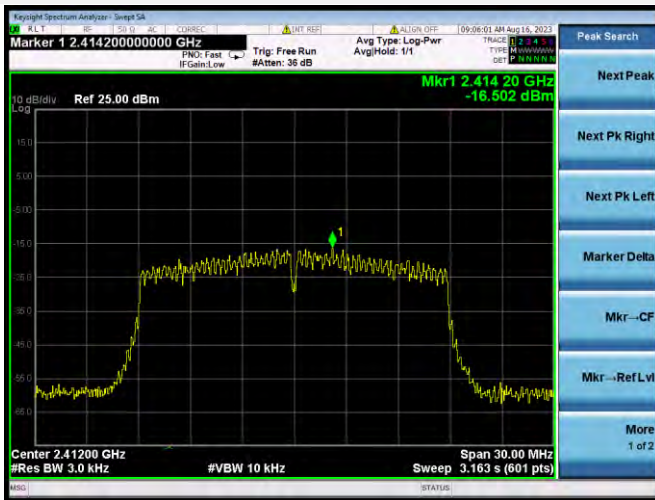
802.11g MIDDLE CHANNEL



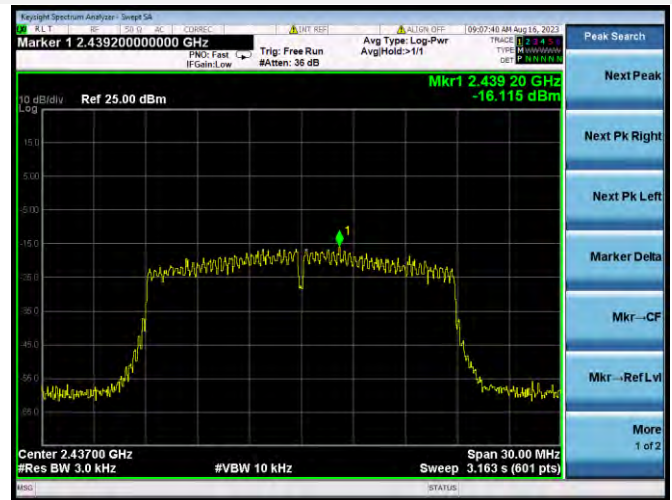
802.11g HIGH CHANNEL



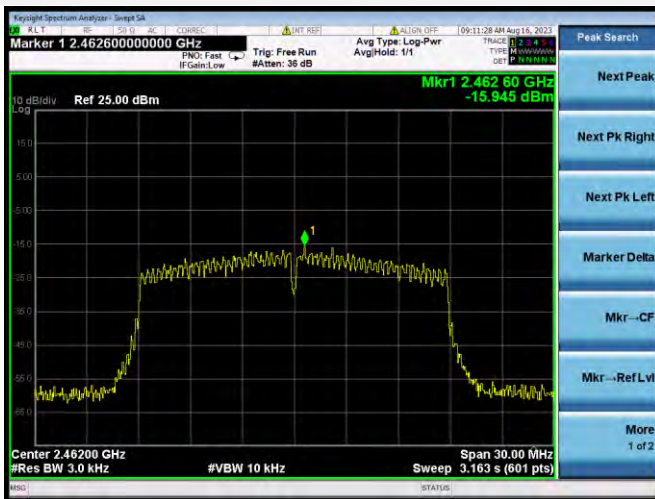
802.11n-20 MHz LOW CHANNEL



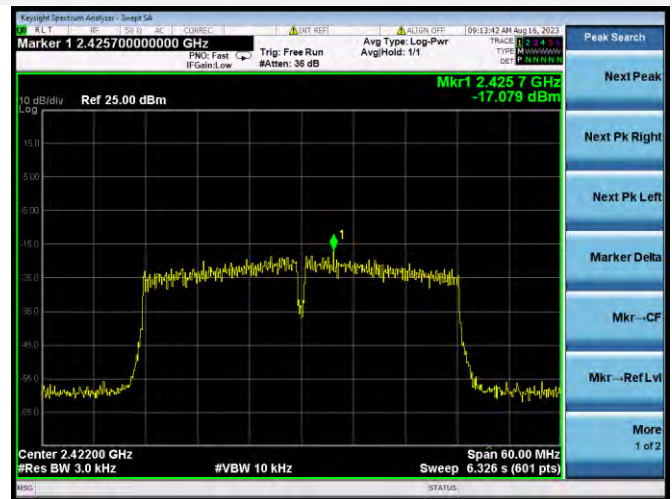
802.11n-20 MHz MIDDLE CHANNEL



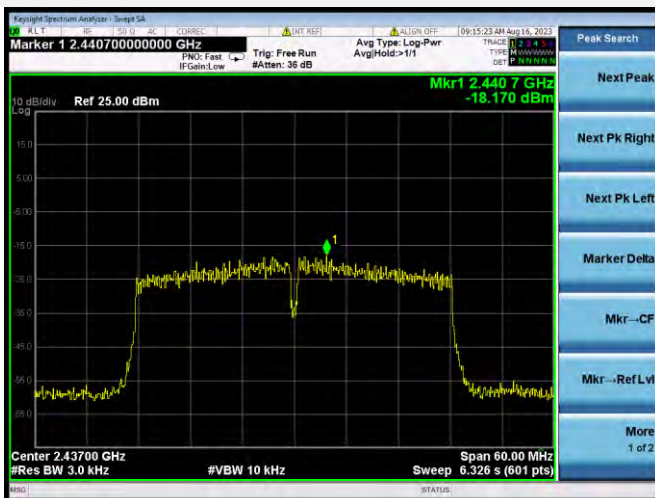
802.11n-20 MHz HIGH CHANNEL



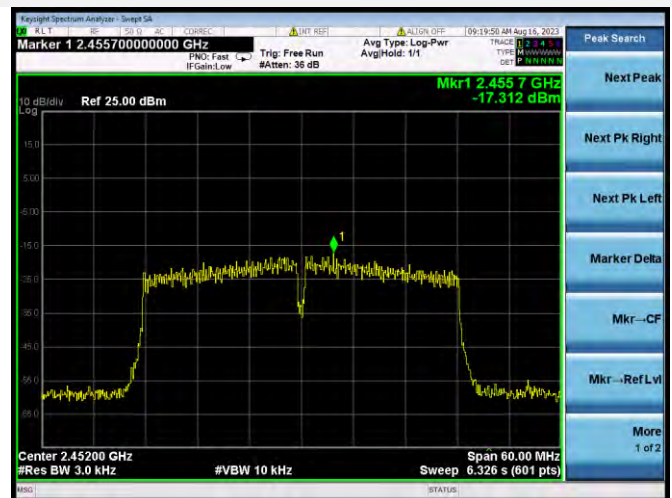
802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



802.11n-40 MHz HIGH CHANNEL



802.11ax-20 MHz(SU) LOW CHANNEL



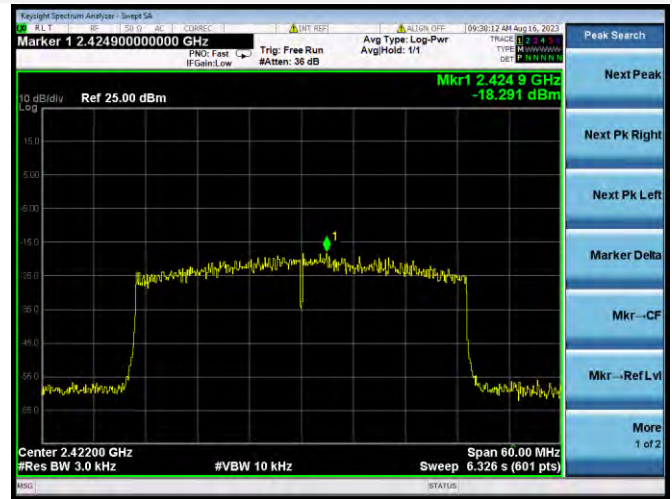
802.11ax-20 MHz(SU) MIDDLE CHANNEL



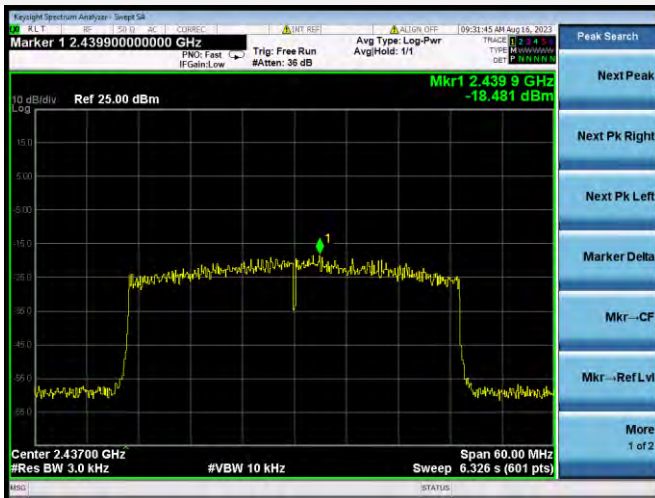
802.11ax-20 MHz(SU) HIGH CHANNEL



802.11ax-40 MHz(SU) LOW CHANNEL



802.11ax-40 MHz(SU) MIDDLE CHANNEL



802.11ax-40 MHz(SU) HIGH CHANNEL



Antenna 1

802.11b LOW CHANNEL



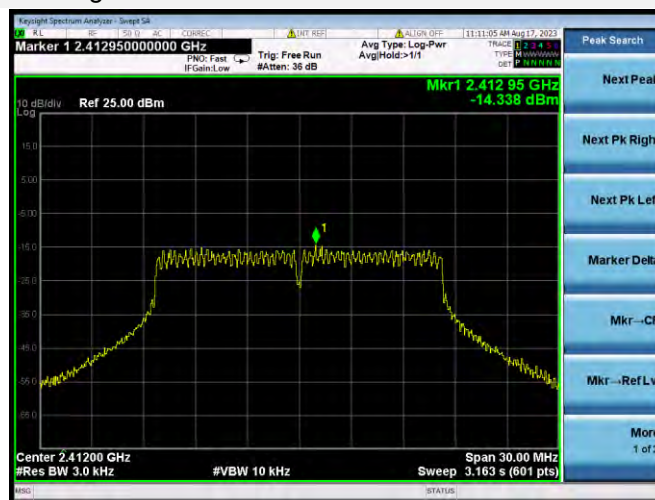
802.11b MIDDLE CHANNEL



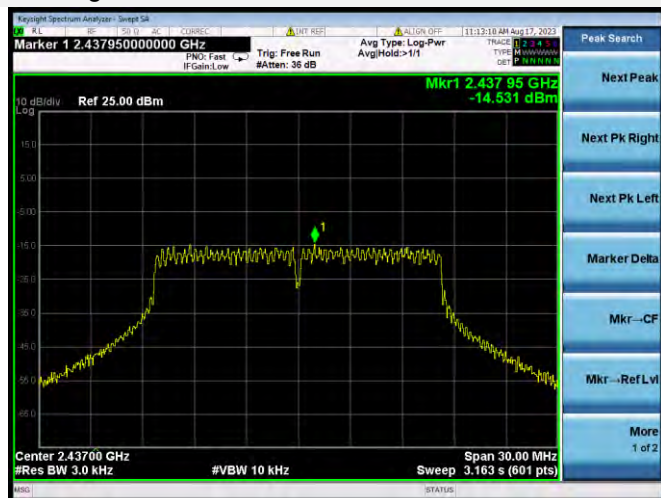
802.11b HIGH CHANNEL



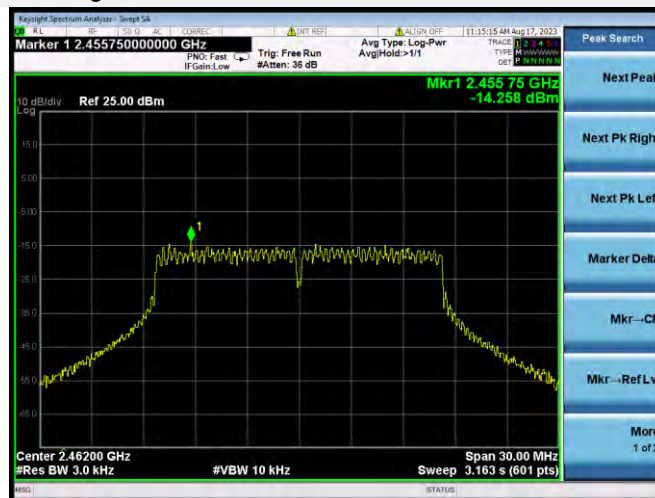
802.11g LOW CHANNEL



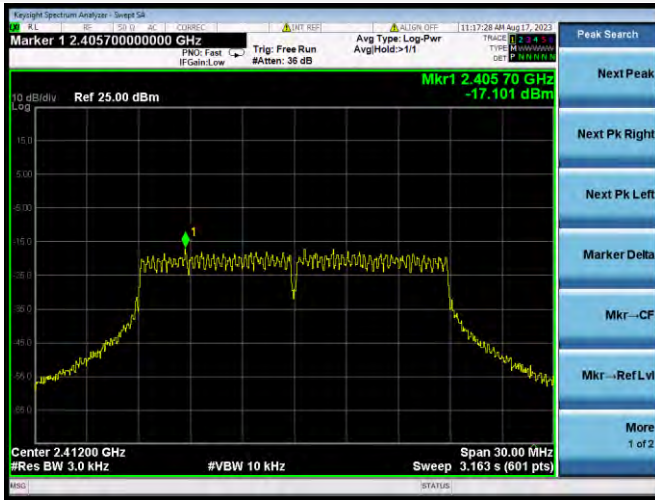
802.11g MIDDLE CHANNEL



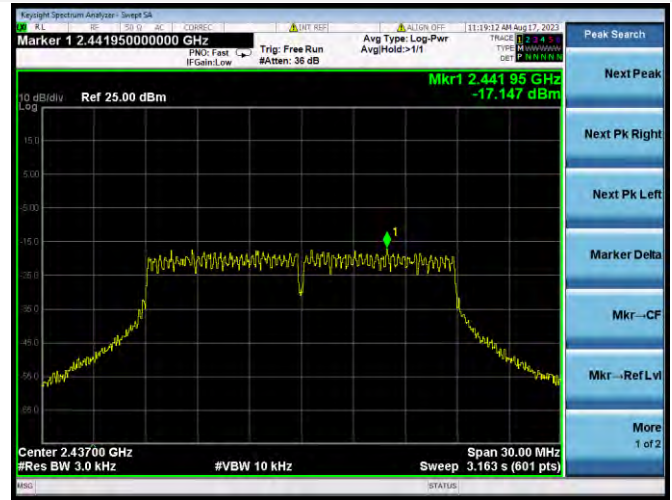
802.11g HIGH CHANNEL



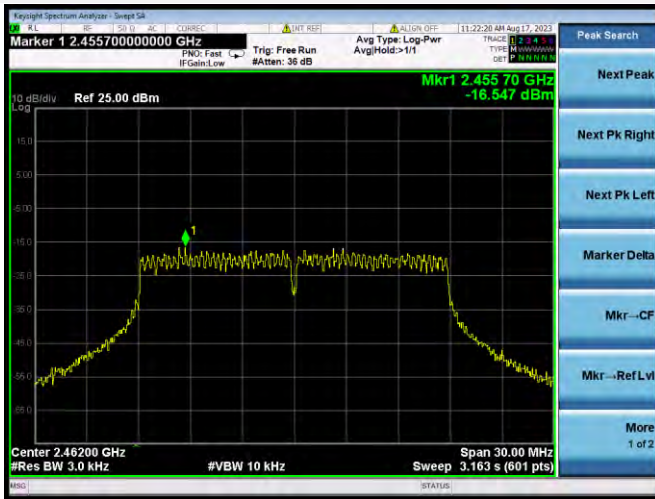
802.11n-20 MHz LOW CHANNEL



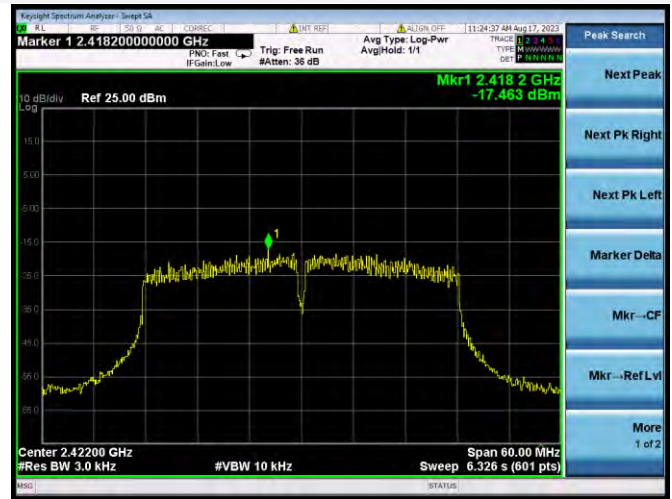
802.11n-20 MHz MIDDLE CHANNEL



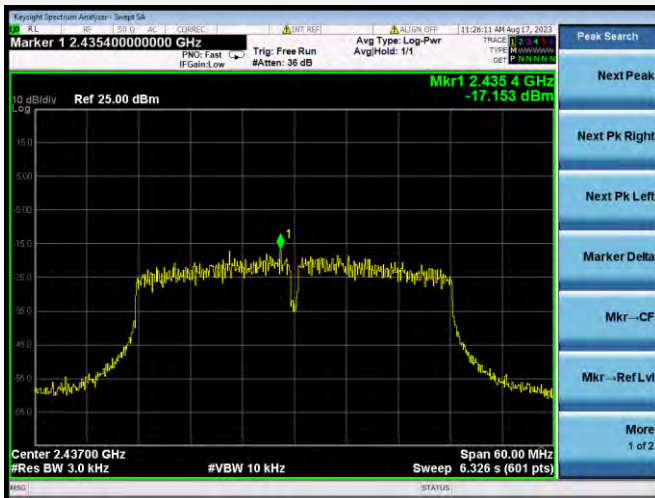
802.11n-20 MHz HIGH CHANNEL



802.11n-40 MHz LOW CHANNEL



802.11n-40 MHz MIDDLE CHANNEL



802.11n-40 MHz HIGH CHANNEL



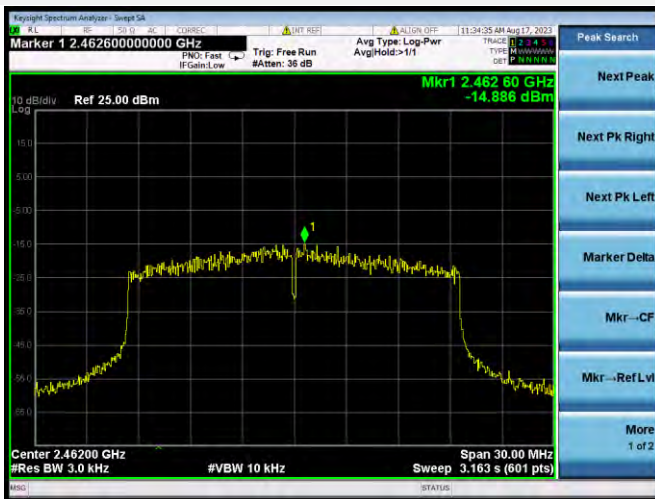
802.11ax-20 MHz(SU) LOW CHANNEL



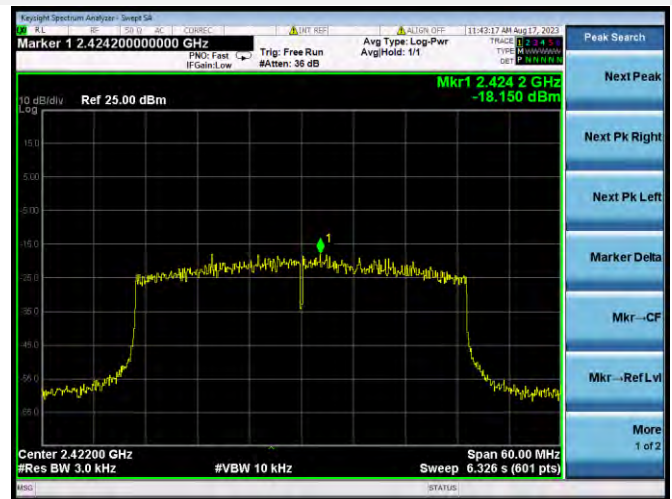
802.11ax-20 MHz(SU) MIDDLE CHANNEL



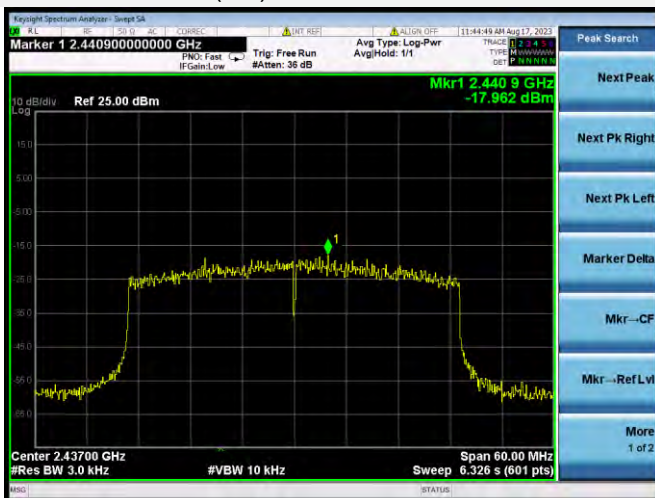
802.11ax-20 MHz(SU) HIGH CHANNEL



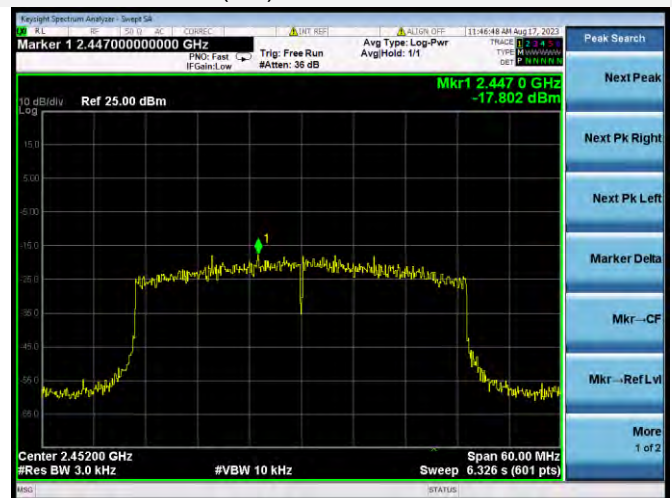
802.11ax-40 MHz(SU) LOW CHANNEL



802.11ax-40 MHz(SU) MIDDLE CHANNEL

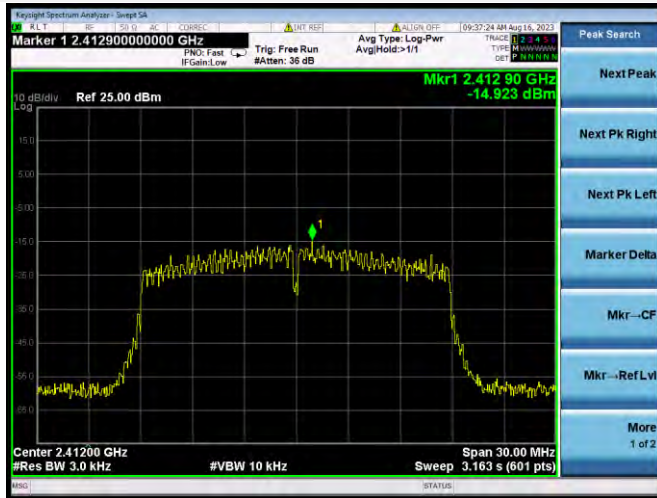


802.11ax-40 MHz(SU) HIGH CHANNEL

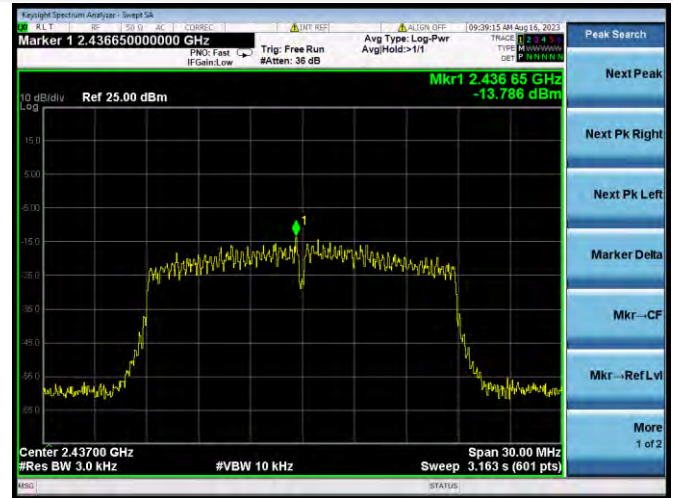


MIMO-Antenna 0

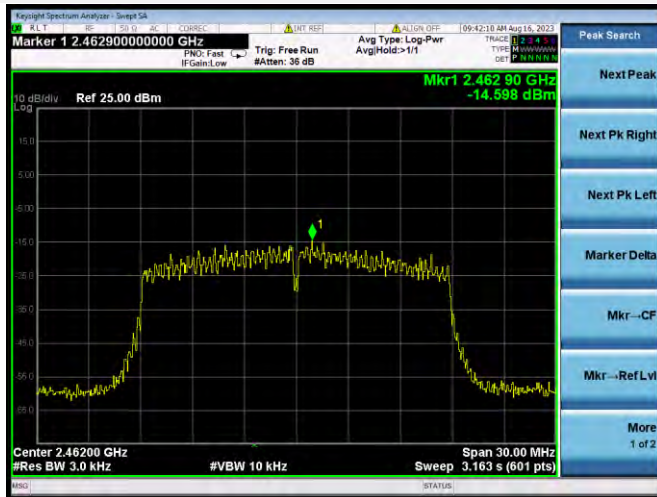
802.11n-20 MHz LOW CHANNEL



802.11n-20 MHz MIDDLE CHANNEL



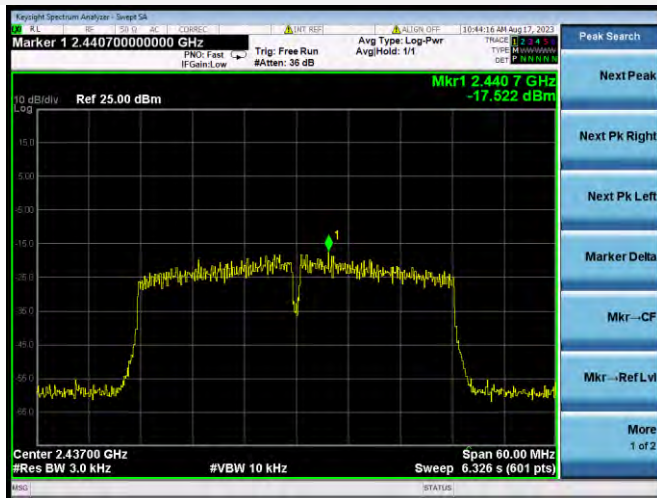
802.11n-20 MHz HIGH CHANNEL



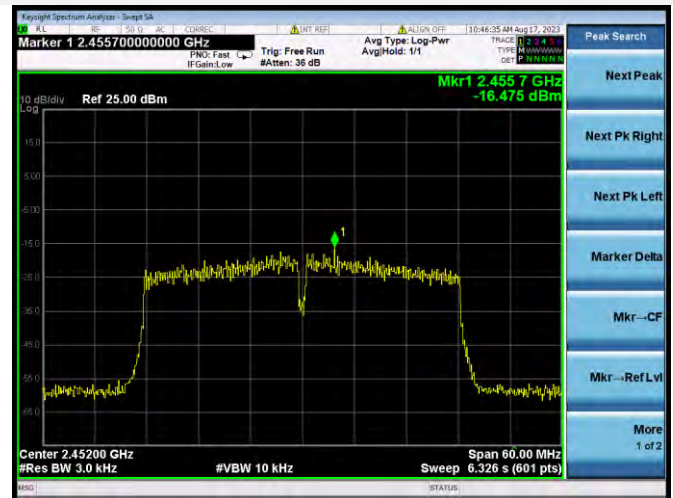
802.11n-40 MHz LOW CHANNEL



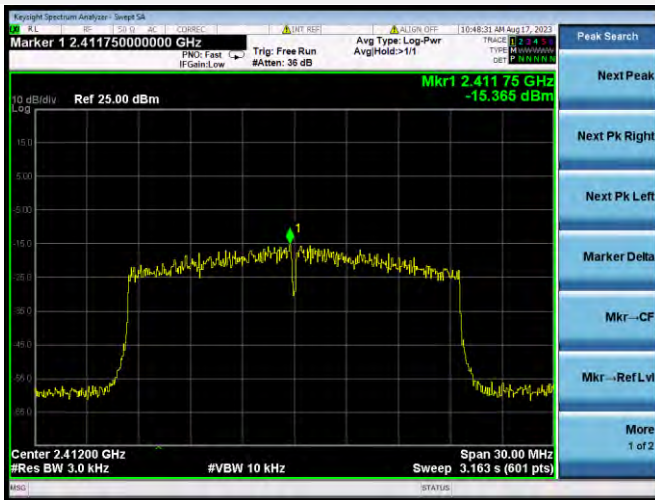
802.11n-40 MHz MIDDLE CHANNEL



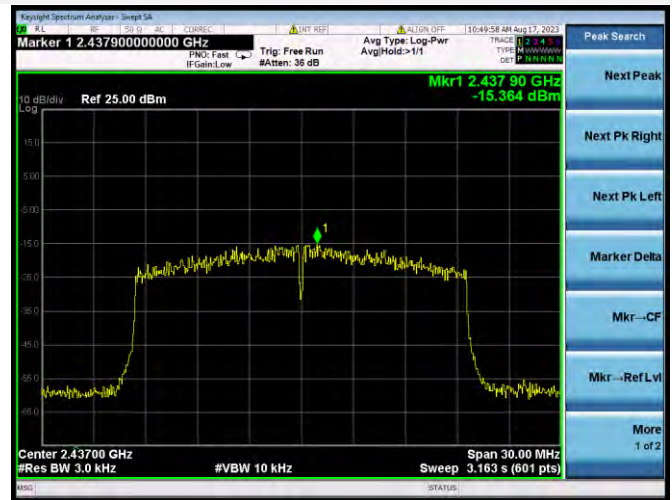
802.11n-40 MHz HIGH CHANNEL



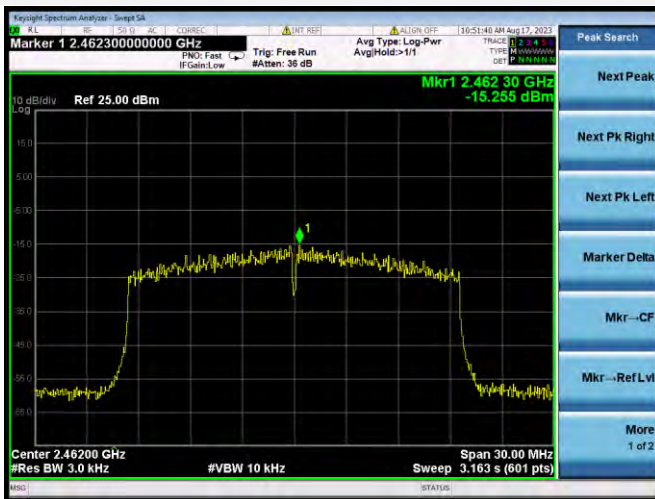
802.11ax-20 MHz(SU) LOW CHANNEL



802.11ax-20 MHz(SU) MIDDLE CHANNEL



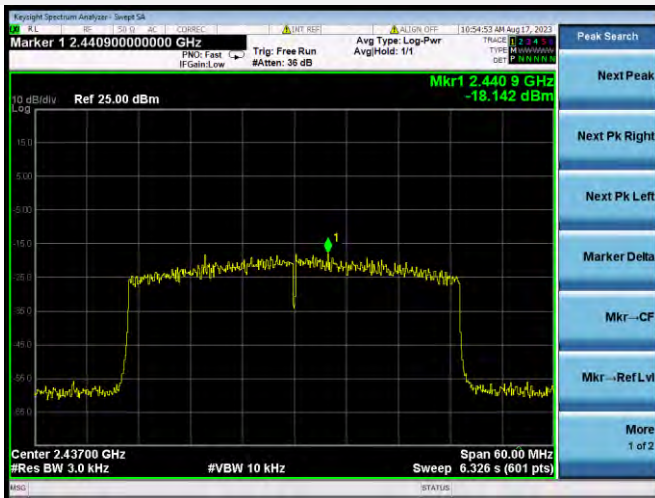
802.11ax-20 MHz(SU) HIGH CHANNEL



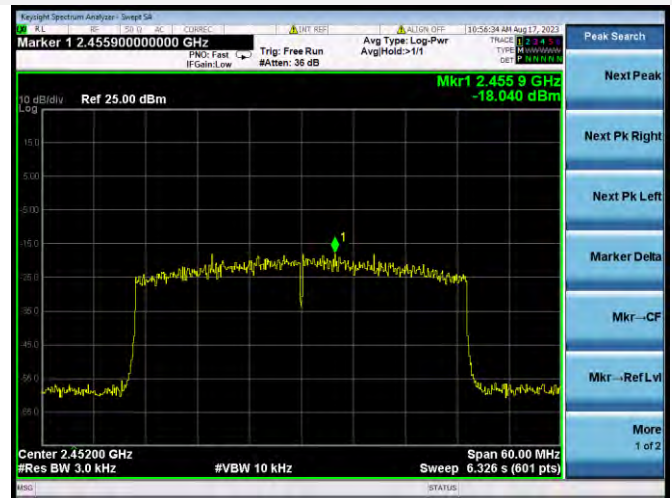
802.11ax-40 MHz(SU) LOW CHANNEL



802.11ax-40 MHz(SU) MIDDLE CHANNEL

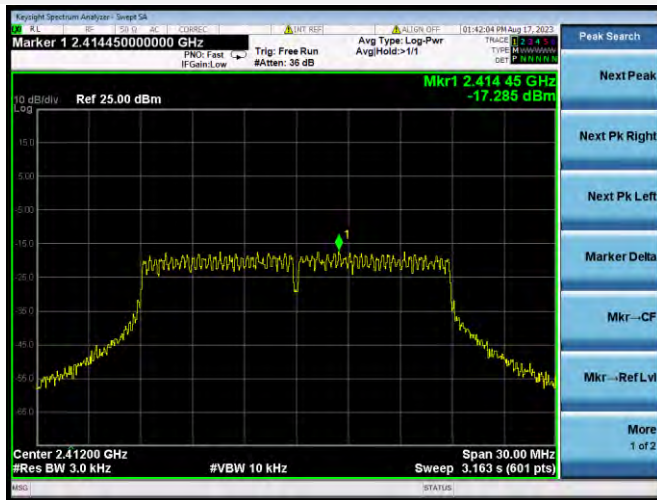


802.11ax-40 MHz(SU) HIGH CHANNEL

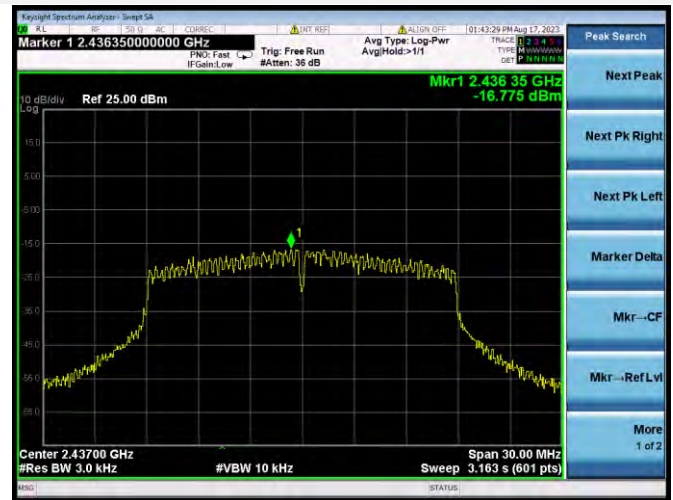


MIMO-Antenna 1

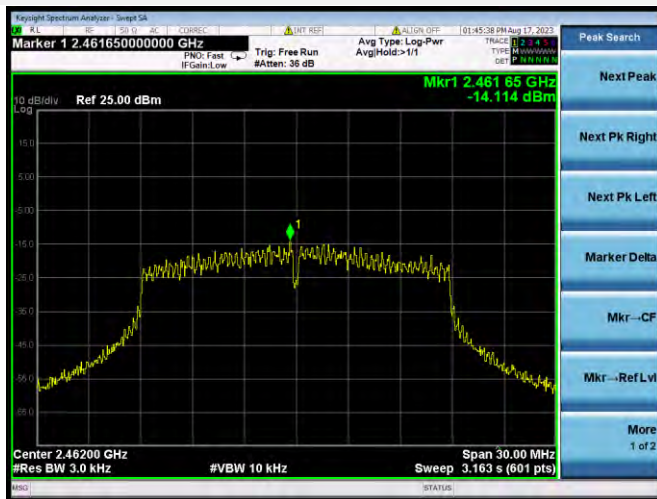
802.11n-20 MHz LOW CHANNEL



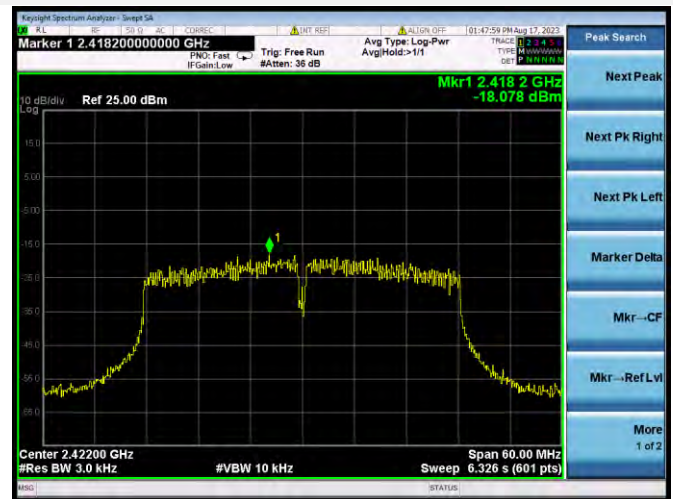
802.11n-20 MHz MIDDLE CHANNEL



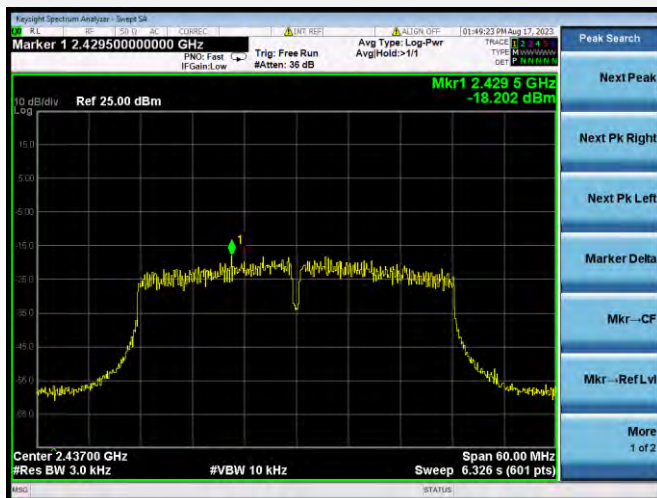
802.11n-20 MHz HIGH CHANNEL



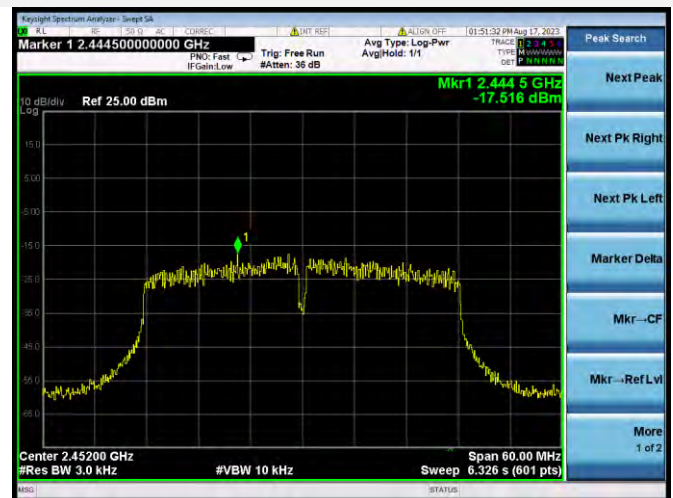
802.11n-40 MHz LOW CHANNEL



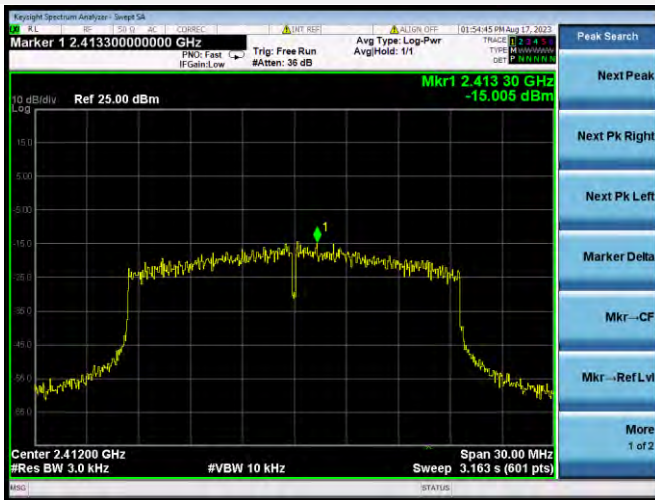
802.11n-40 MHz MIDDLE CHANNEL



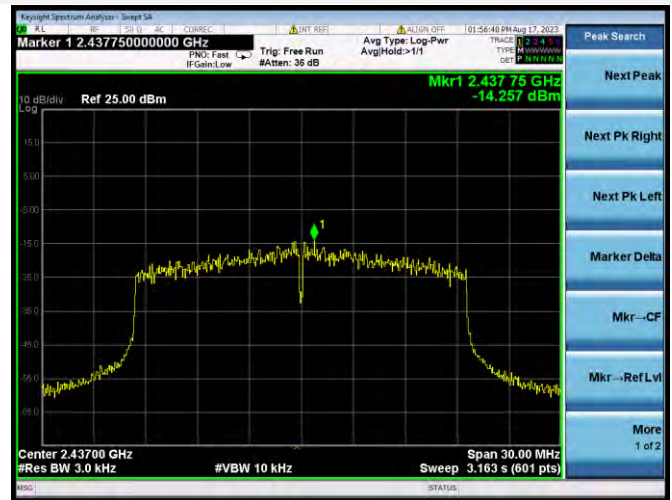
802.11n-40 MHz HIGH CHANNEL



802.11ax-20 MHz(SU) LOW CHANNEL



802.11ax-20 MHz(SU) MIDDLE CHANNEL



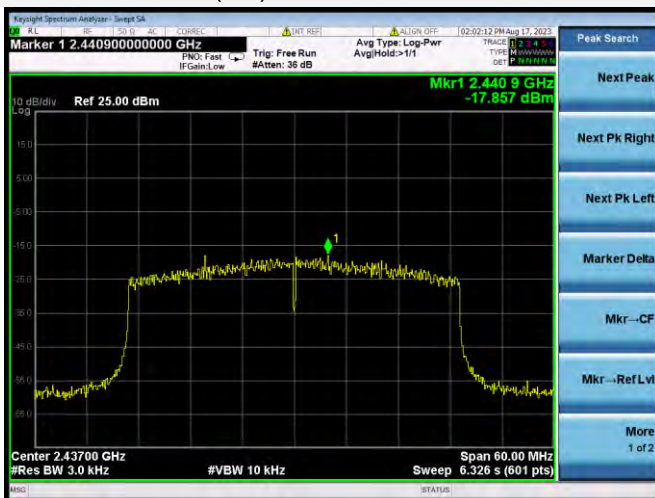
802.11ax-20 MHz(SU) HIGH CHANNEL



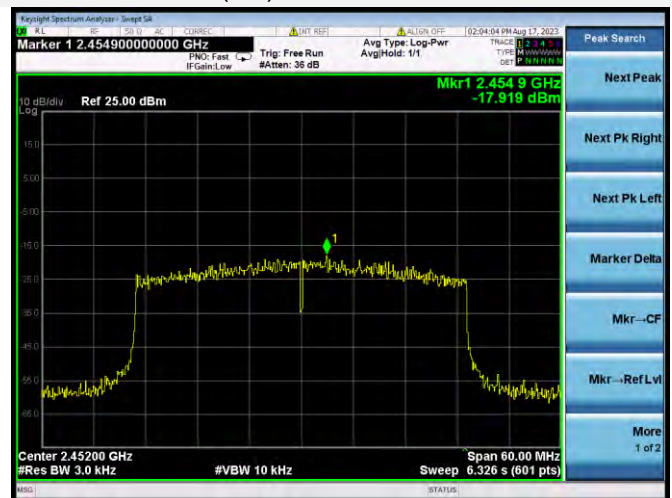
802.11ax-40 MHz(SU) LOW CHANNEL



802.11ax-40 MHz(SU) MIDDLE CHANNEL



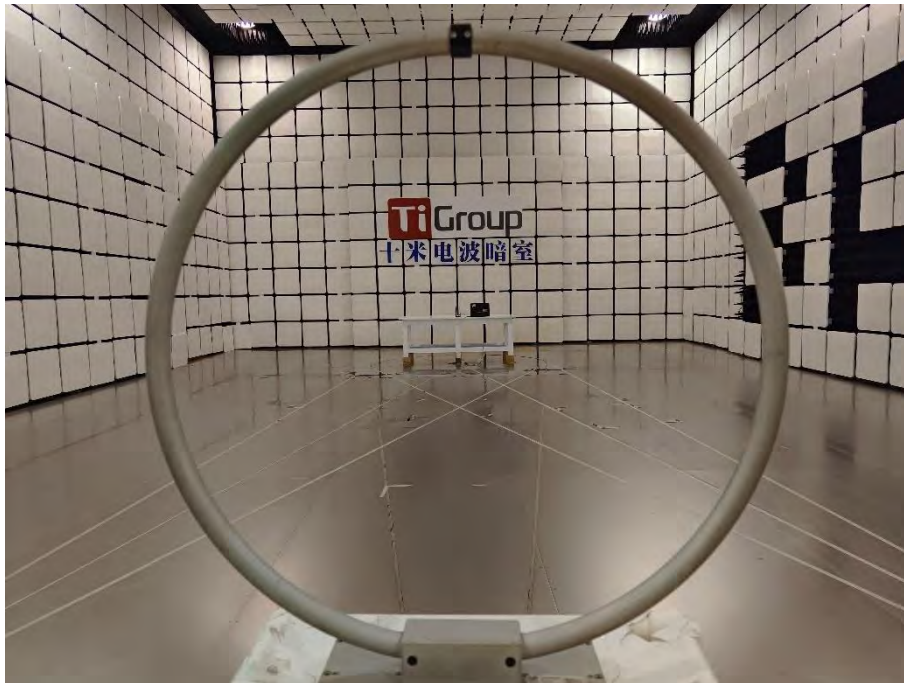
802.11ax-40 MHz(SU) HIGH CHANNEL



ANNEX A TEST SETUP PHOTOS

1 Radiated Test Photo

Below 30MHz



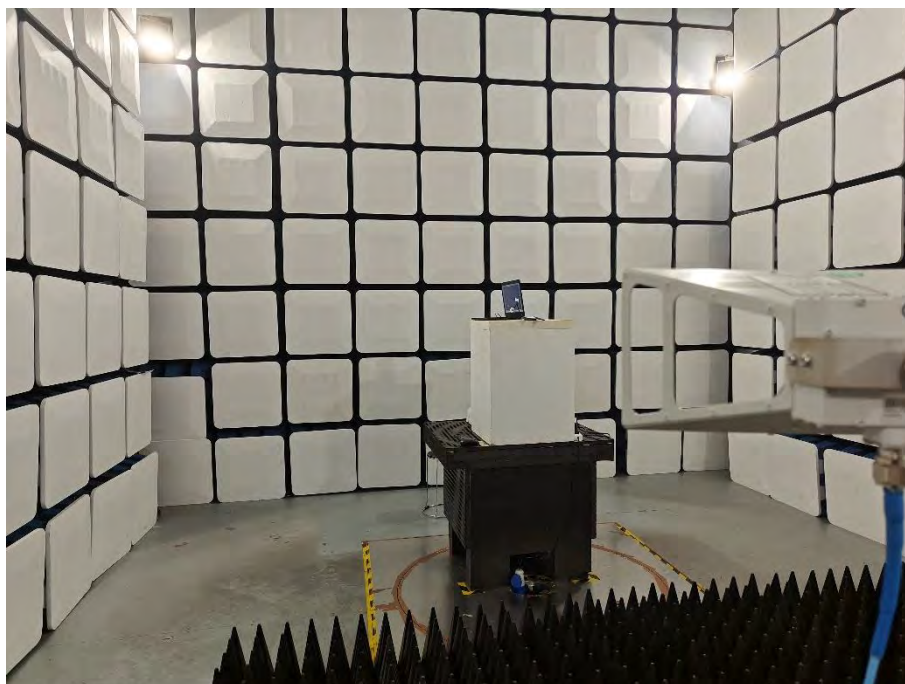
30MHz-1GHz



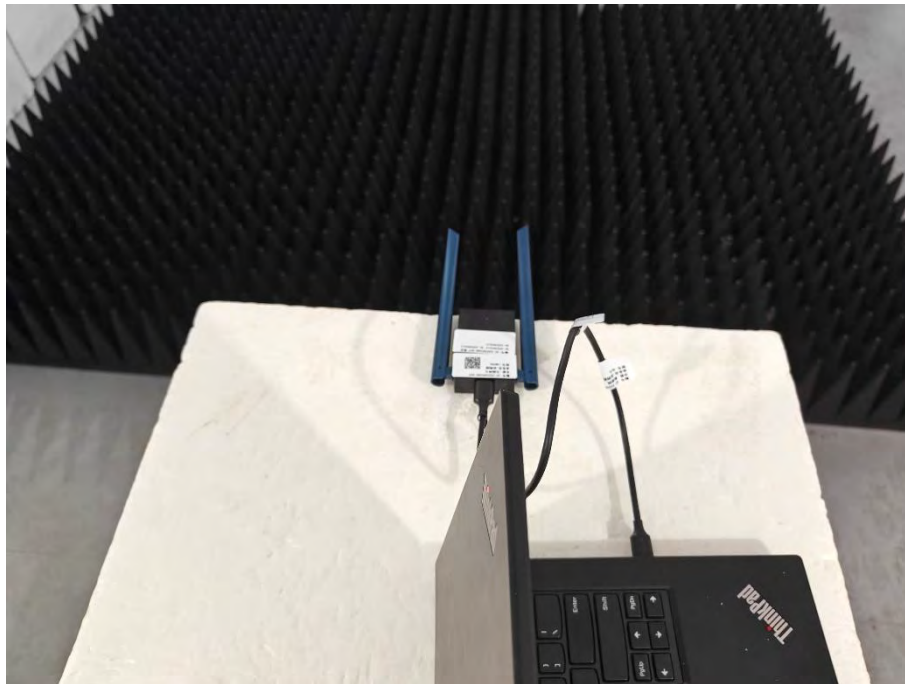
Close-up



Above 1GHz



Close-up



2 Conducted Test Photo

Conducted Test

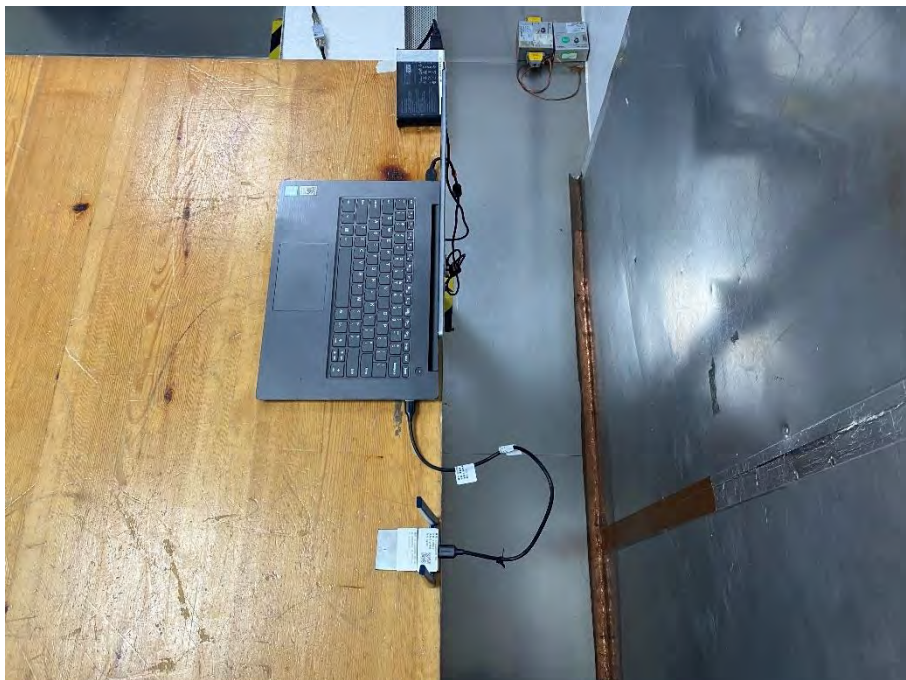


3 Conducted Emissions

Test Photo 1



Test Photo 2

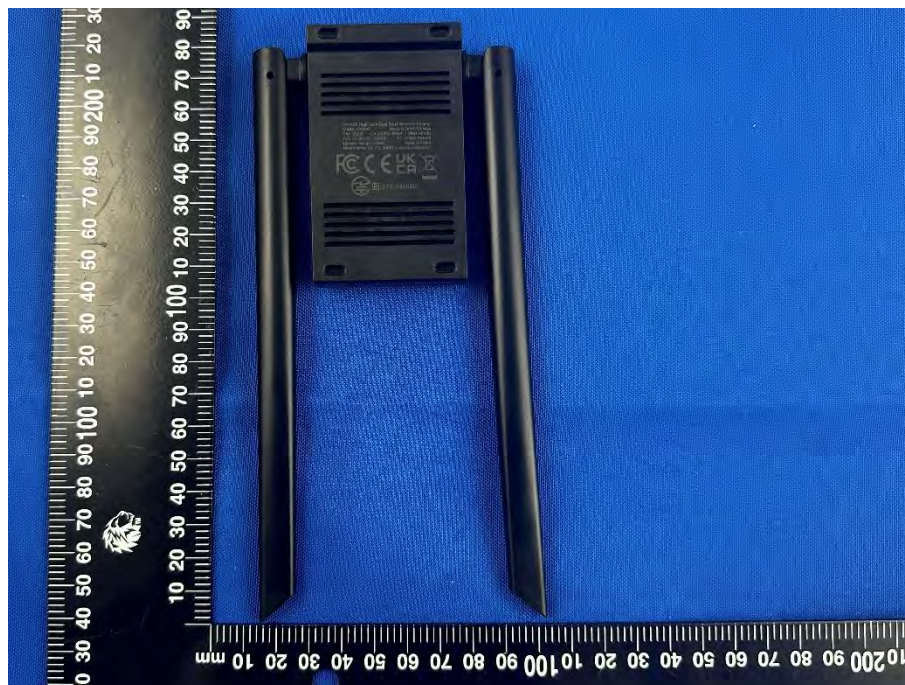


ANNEX B EUT EXTERNAL PHOTOS

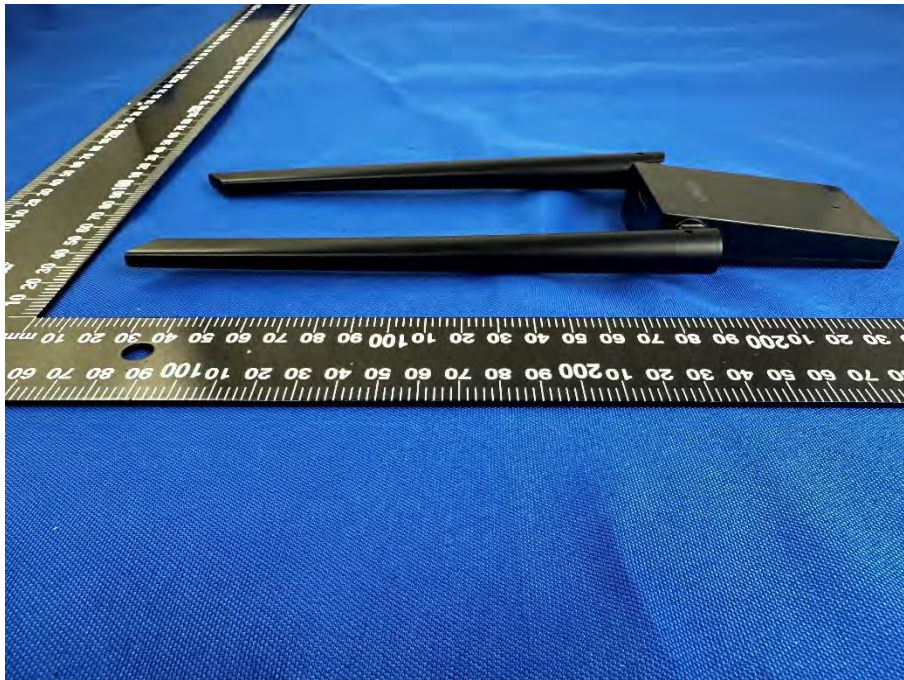
FRONT VIEW OF EUT



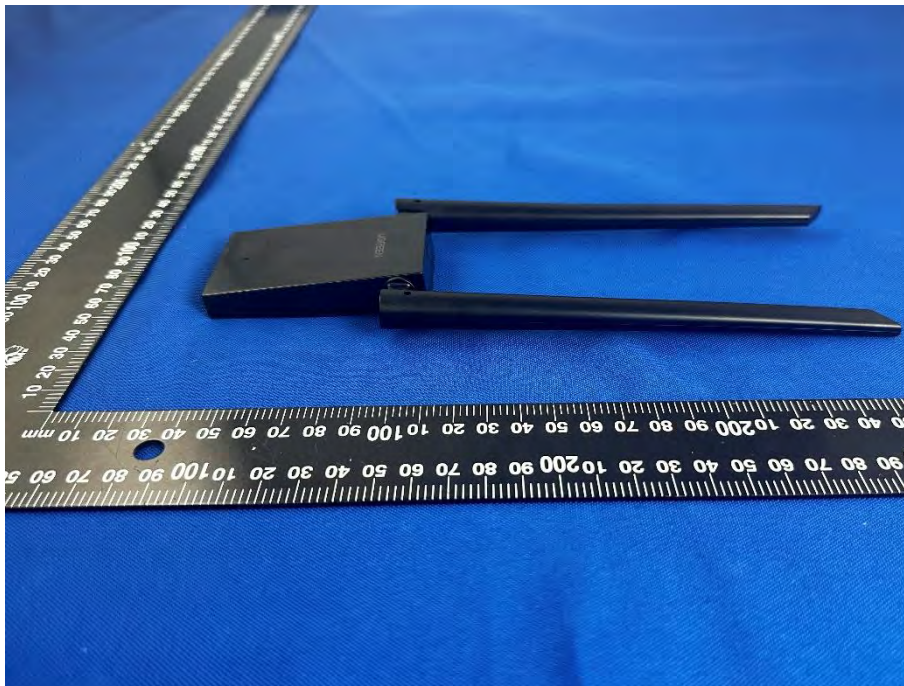
REAR VIEW OF EUT



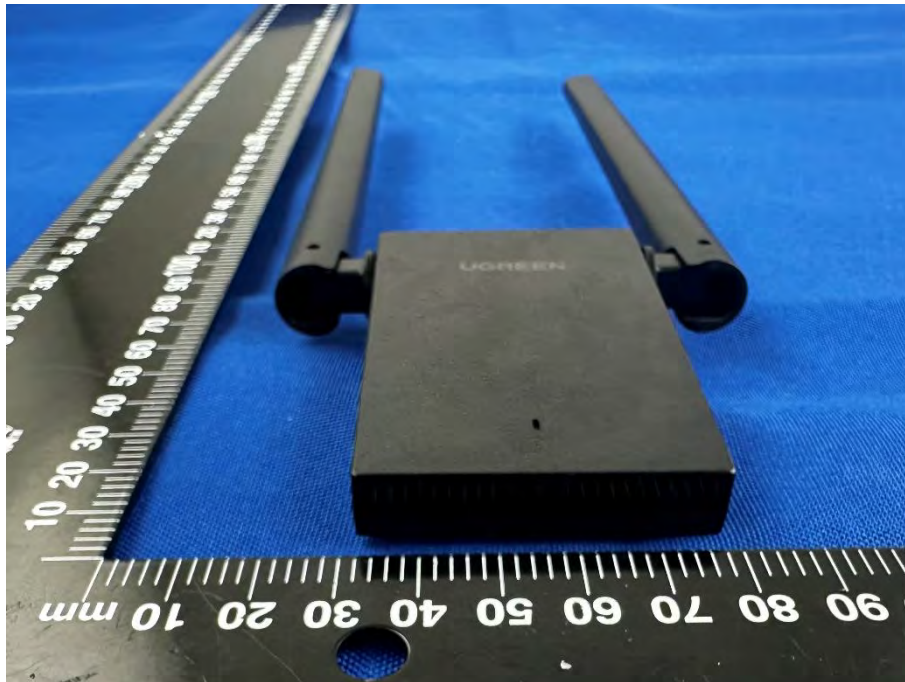
LEFT VIEW OF EUT



RIGHT VIEW OF EUT



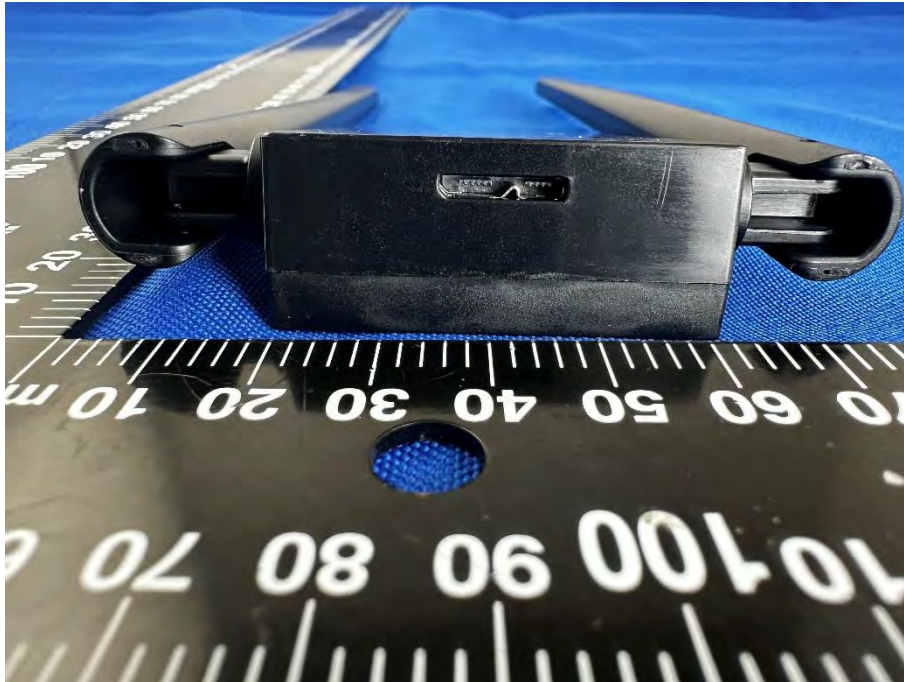
TOP VIEW OF EUT



BOTTOM VIEW OF EUT



CLOSE-UP

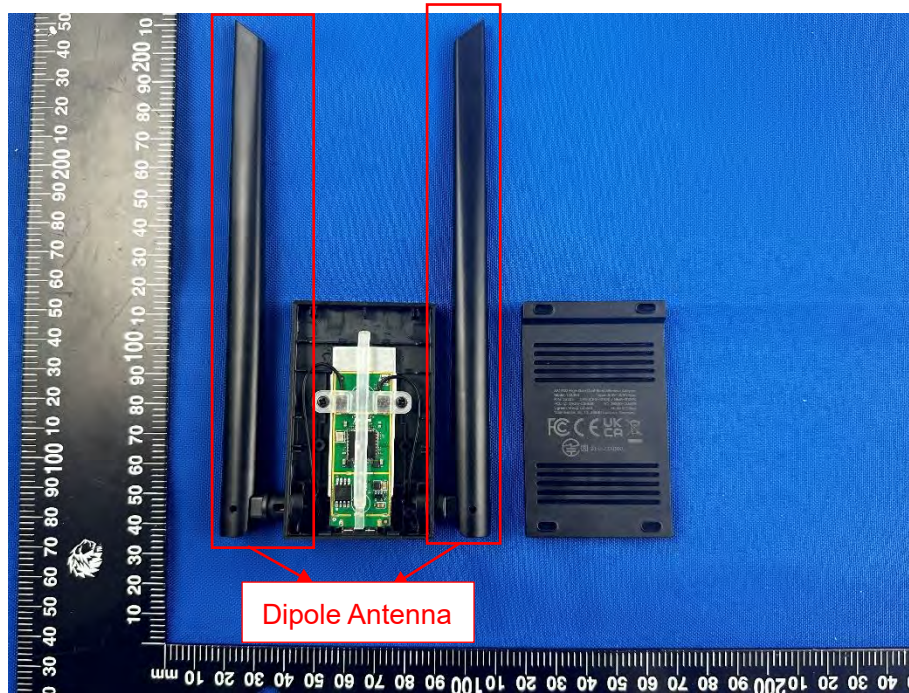


Accessory-USB Cable

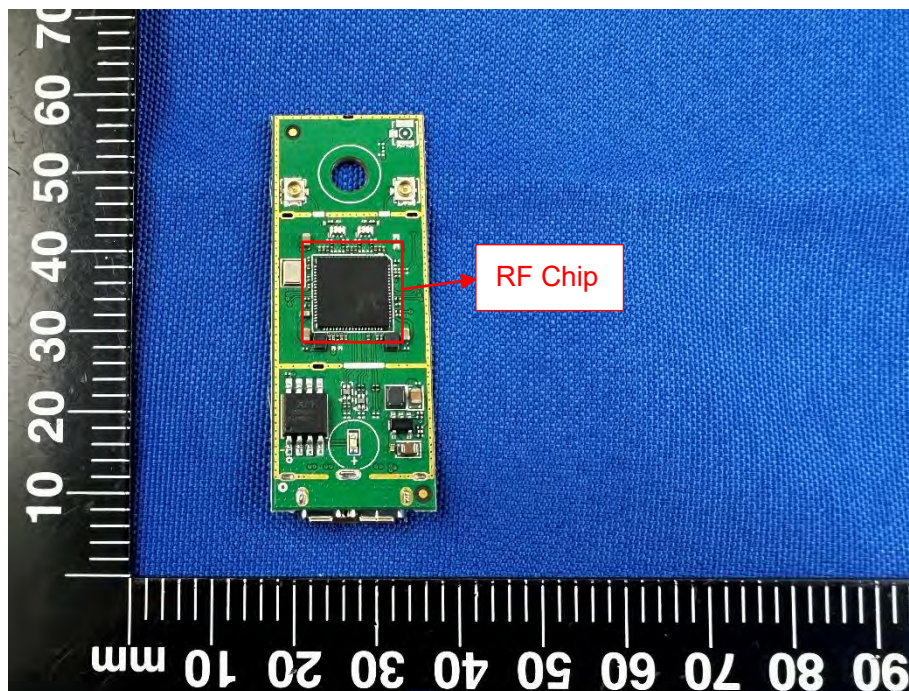


ANNEX C EUT INTERNAL PHOTOS

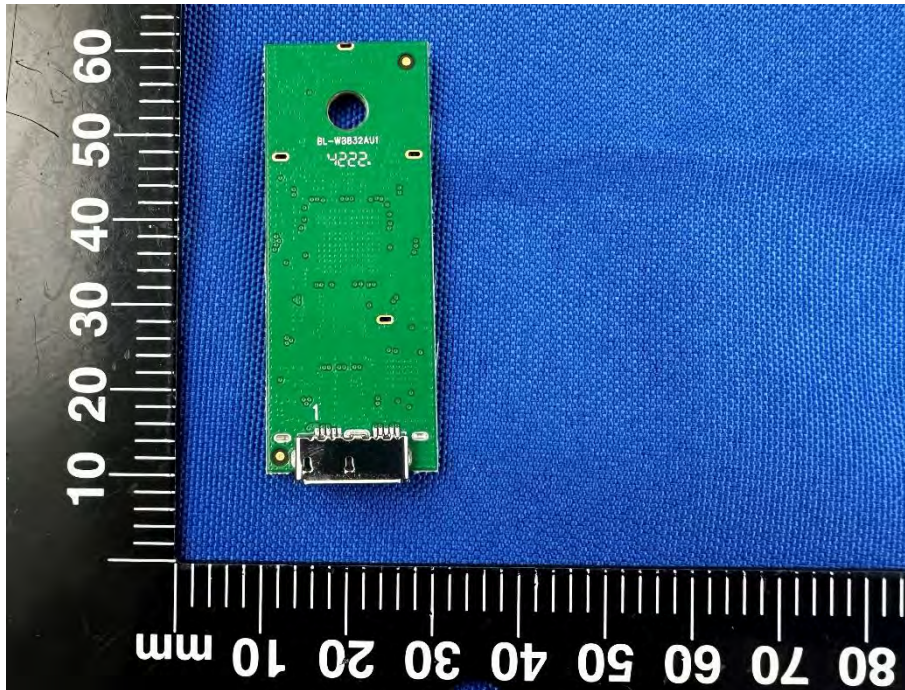
EUT UNCOVER VIEW 1



MAIN BOARD TOP VIEW



MAIN BOARD REAR VIEW



ANTENNA



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