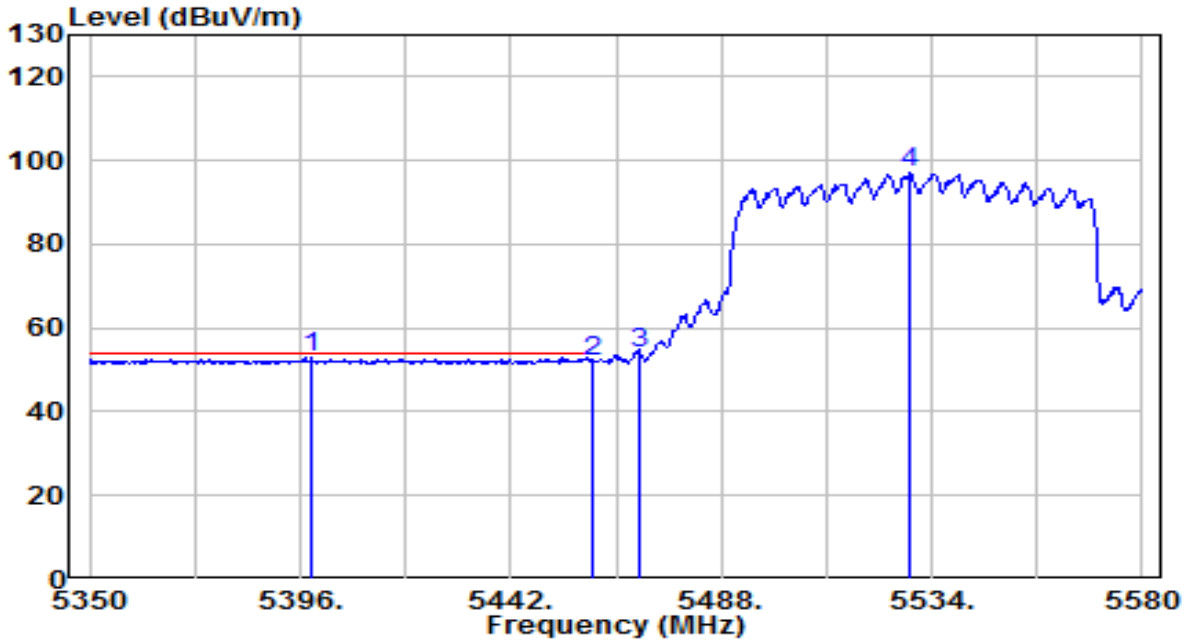
EUT	AX6000 Wi-Fi 6 SOHO Router	Date of Test	2025-05-16
Factor	BBHA 9120D	Temp. / Humidity	24°C /58%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11ax-80MHz_TX_Band3_CH 106_ANT 0+1+2+3	Test Voltage	AC 120V/60Hz

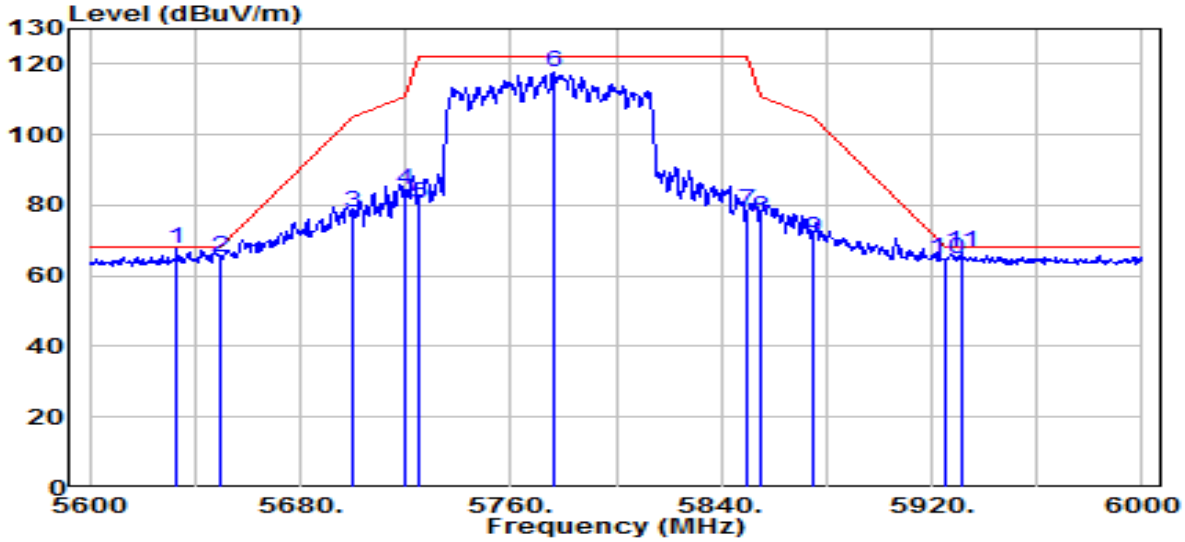


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	5398.530	47.58	5.30	52.88	-1.12	54.00	150	35	Average
2		5460.000	46.47	5.32	51.80	-2.20	54.00	150	35	Average
3		5470.000	48.66	5.33	53.99	N/A	N/A	150	35	Average
4		5529.400	91.49	5.45	96.94	N/A	N/A	150	35	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 20dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX6000 Wi-Fi 6 SOHO Router	Date of Test	2025-05-16
Factor	BBHA 9120D	Temp. / Humidity	24°C /58%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11ax-80MHz_TX_Band4_CH 155_ANT 0+1+2+3	Test Voltage	AC 120V/60Hz

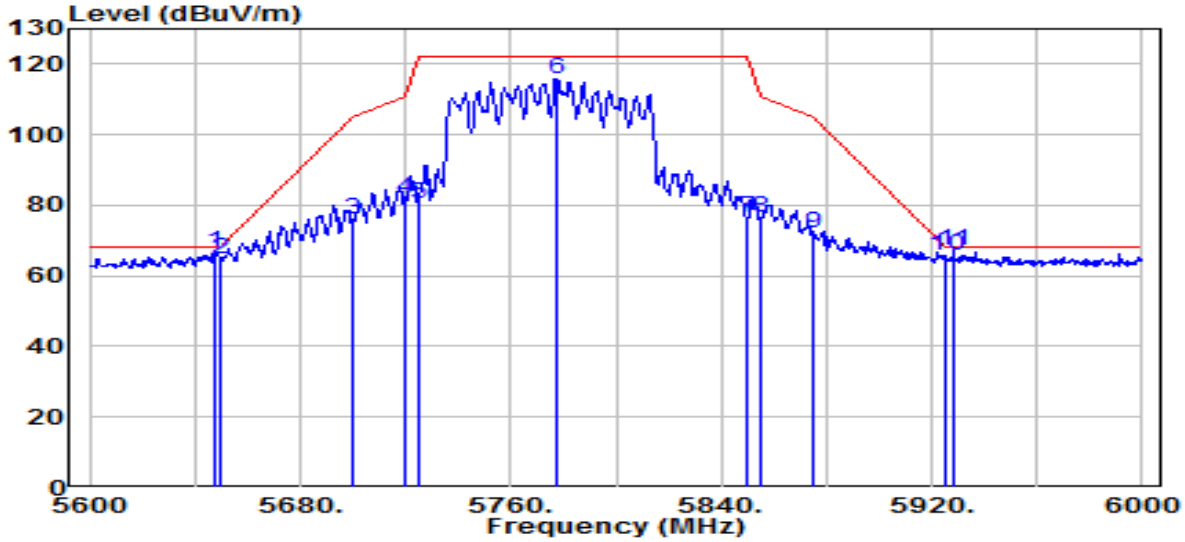


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	5633.200	61.67	5.82	67.49	-0.71	68.20	160	90	Peak
2		5650.000	59.59	5.88	65.47	-2.73	68.20	160	90	Peak
3		5700.000	71.81	6.05	77.86	-27.34	105.20	160	90	Peak
4		5720.000	78.03	6.13	84.15	-26.65	110.80	160	90	Peak
5		5725.000	74.44	6.14	80.58	-41.62	122.20	160	90	Peak
6		5776.000	111.25	6.33	117.58	N/A	N/A	160	90	Peak
7		5850.000	71.76	6.57	78.33	-43.87	122.20	160	90	Peak
8		5855.000	69.93	6.59	76.52	-34.28	110.80	160	90	Peak
9		5875.000	64.12	6.65	70.77	-34.43	105.20	160	90	Peak
10		5925.000	57.78	6.81	64.59	-3.61	68.20	160	90	Peak
11		5931.200	59.91	6.84	66.74	-1.46	68.20	160	90	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 20dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX6000 Wi-Fi 6 SOHO Router	Date of Test	2025-05-16
Factor	BBHA 9120D	Temp. / Humidity	24°C /58%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11ax-80MHz_TX_Band4_CH 155_ANT 0+1+2+3	Test Voltage	AC 120V/60Hz

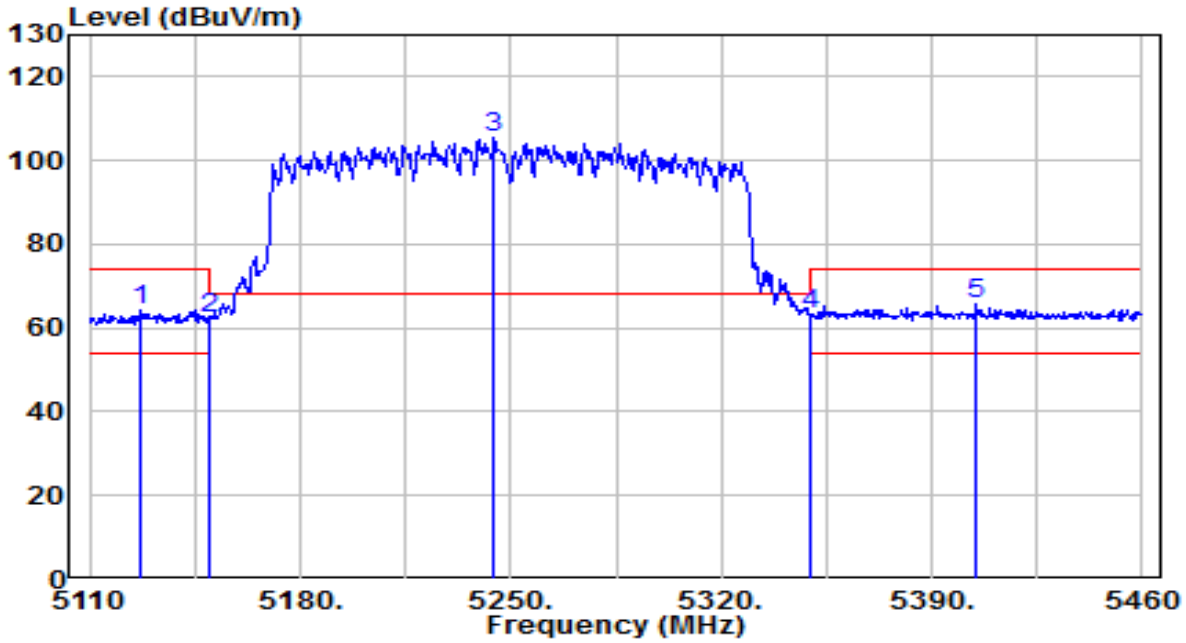


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		5647.600	61.06	5.87	66.93	-1.27	68.20	145	165	Peak
2		5650.000	58.67	5.88	64.55	-3.65	68.20	145	165	Peak
3		5700.000	70.11	6.05	76.16	-29.04	105.20	145	165	Peak
4		5720.000	75.96	6.13	82.08	-28.72	110.80	145	165	Peak
5		5725.000	74.15	6.14	80.30	-41.90	122.20	145	165	Peak
6		5777.200	109.30	6.33	115.64	N/A	N/A	145	165	Peak
7		5850.000	69.72	6.57	76.29	-45.91	122.20	145	165	Peak
8		5855.000	70.00	6.59	76.58	-34.22	110.80	145	165	Peak
9		5875.000	65.33	6.65	71.98	-33.22	105.20	145	165	Peak
10		5925.000	58.98	6.81	65.79	-2.41	68.20	145	165	Peak
11	*	5928.400	60.18	6.83	67.00	-1.20	68.20	145	165	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 20dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX6000 Wi-Fi 6 SOHO Router	Date of Test	2025-05-16
Factor	BBHA 9120D	Temp. / Humidity	24°C /58%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11ax-160MHz_TX_Band1,2_CH 50_ANT 0+1+2+3	Test Voltage	AC 120V/60Hz

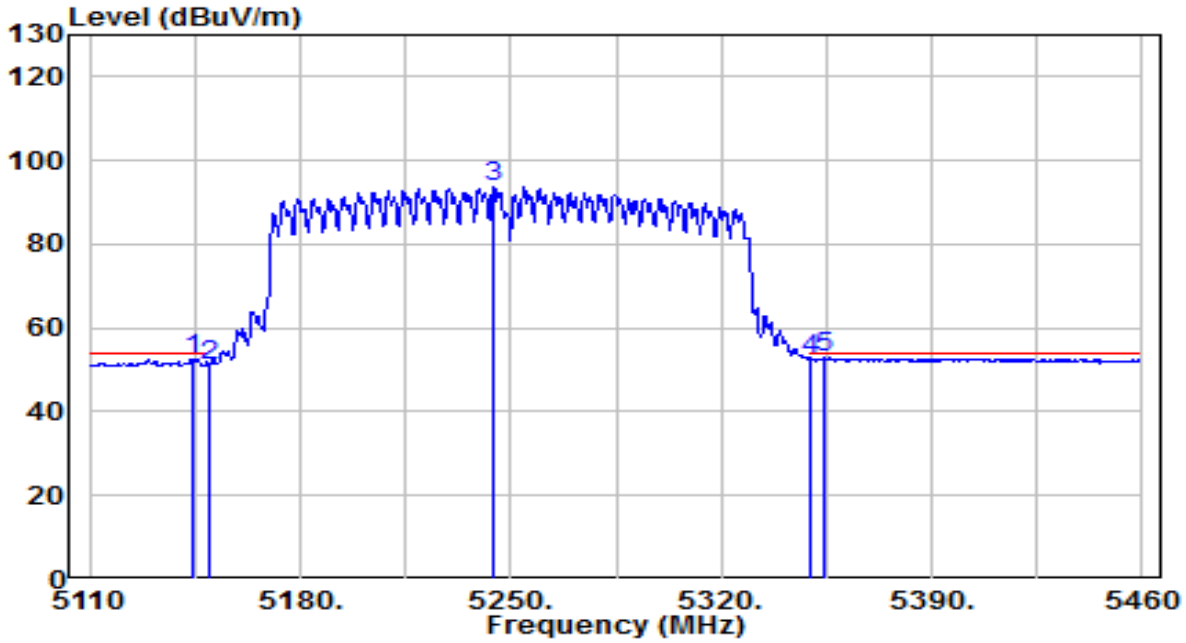


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		5127.150	59.42	5.03	64.44	-9.56	74.00	190	250	Peak
2		5150.000	57.37	5.06	62.43	-11.57	74.00	190	250	Peak
3		5244.400	100.28	5.17	105.45	N/A	N/A	190	250	Peak
4	*	5350.000	57.79	5.25	63.04	-5.16	68.20	190	250	Peak
5		5405.050	60.31	5.30	65.61	-8.39	74.00	190	250	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 20dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX6000 Wi-Fi 6 SOHO Router	Date of Test	2025-05-16
Factor	BBHA 9120D	Temp. / Humidity	24°C /58%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11ax-160MHz_TX_Band1,2_CH 50_ANT 0+1+2+3	Test Voltage	AC 120V/60Hz

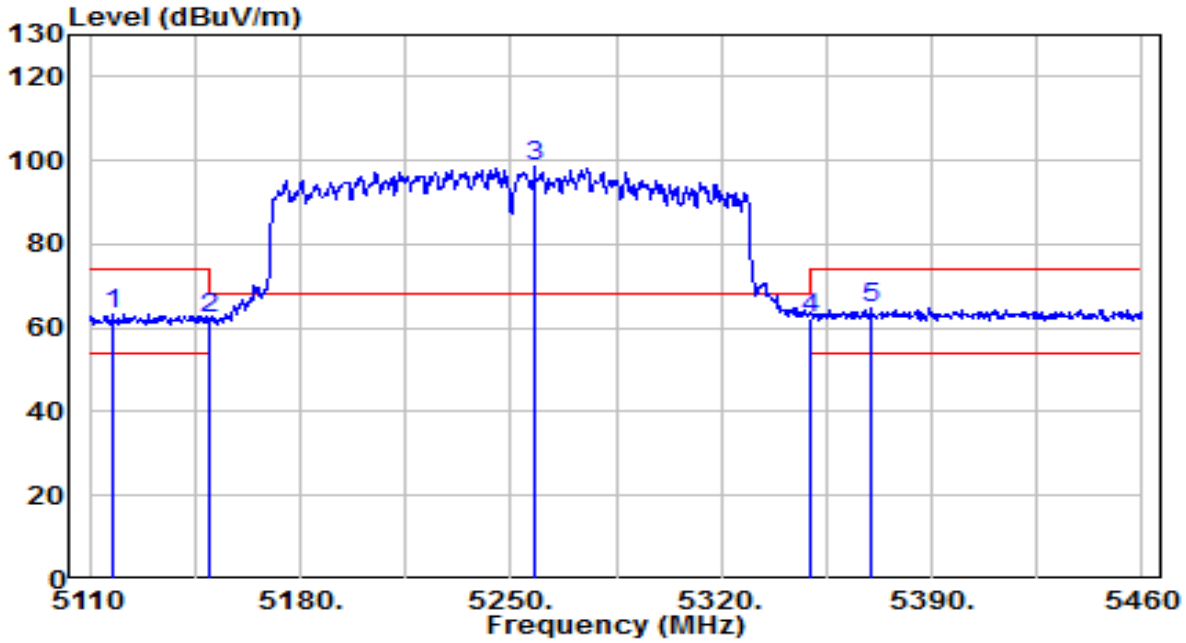


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		5144.650	47.66	5.05	52.72	-1.28	54.00	190	250	Average
2		5150.000	46.15	5.06	51.21	-2.79	54.00	190	250	Average
3		5244.400	88.51	5.17	93.68	N/A	N/A	190	250	Average
4		5350.000	47.40	5.25	52.65	-1.35	54.00	190	250	Average
5	*	5354.650	47.86	5.26	53.12	-0.88	54.00	190	250	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 20dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX6000 Wi-Fi 6 SOHO Router	Date of Test	2025-05-16
Factor	BBHA 9120D	Temp. / Humidity	24°C /58%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11ax-160MHz_TX_Band1,2_CH 50_ANT 0+1+2+3	Test Voltage	AC 120V/60Hz

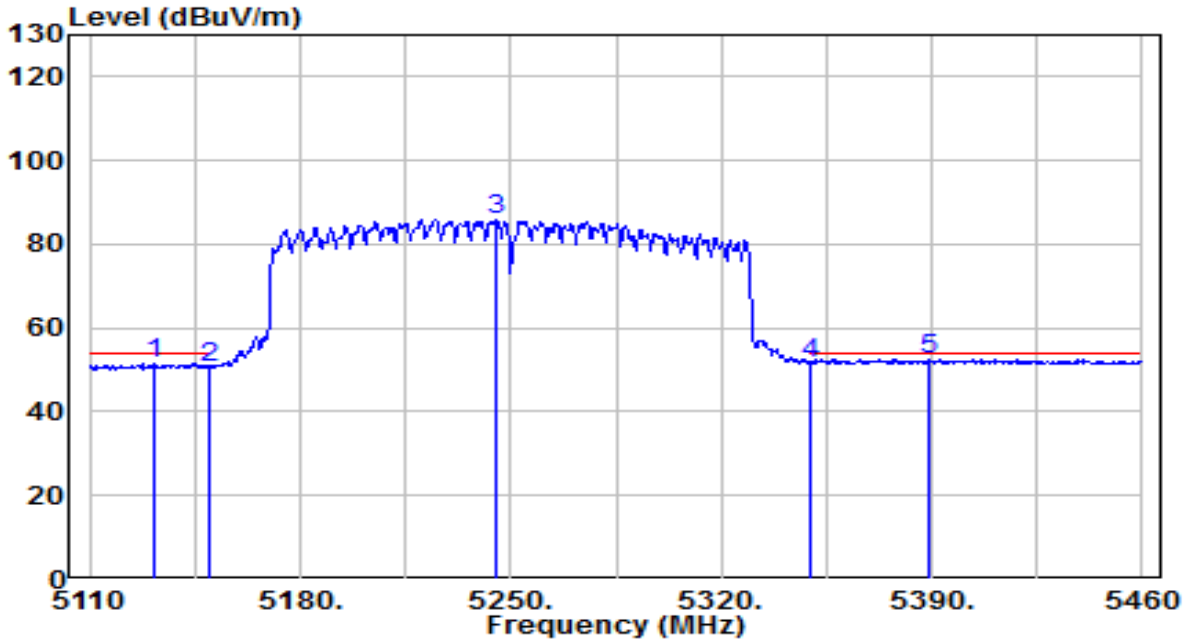


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		5117.700	58.29	5.01	63.31	-10.69	74.00	145	130	Peak
2		5150.000	57.14	5.06	62.20	-11.80	74.00	145	130	Peak
3		5258.050	93.19	5.18	98.37	N/A	N/A	145	130	Peak
4	*	5350.000	56.99	5.25	62.24	-5.96	68.20	145	130	Peak
5		5369.700	59.49	5.27	64.76	-9.24	74.00	145	130	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 20dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX6000 Wi-Fi 6 SOHO Router	Date of Test	2025-05-16
Factor	BBHA 9120D	Temp. / Humidity	24°C /58%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11ax-160MHz_TX_Band1,2_CH 50_ANT 0+1+2+3	Test Voltage	AC 120V/60Hz

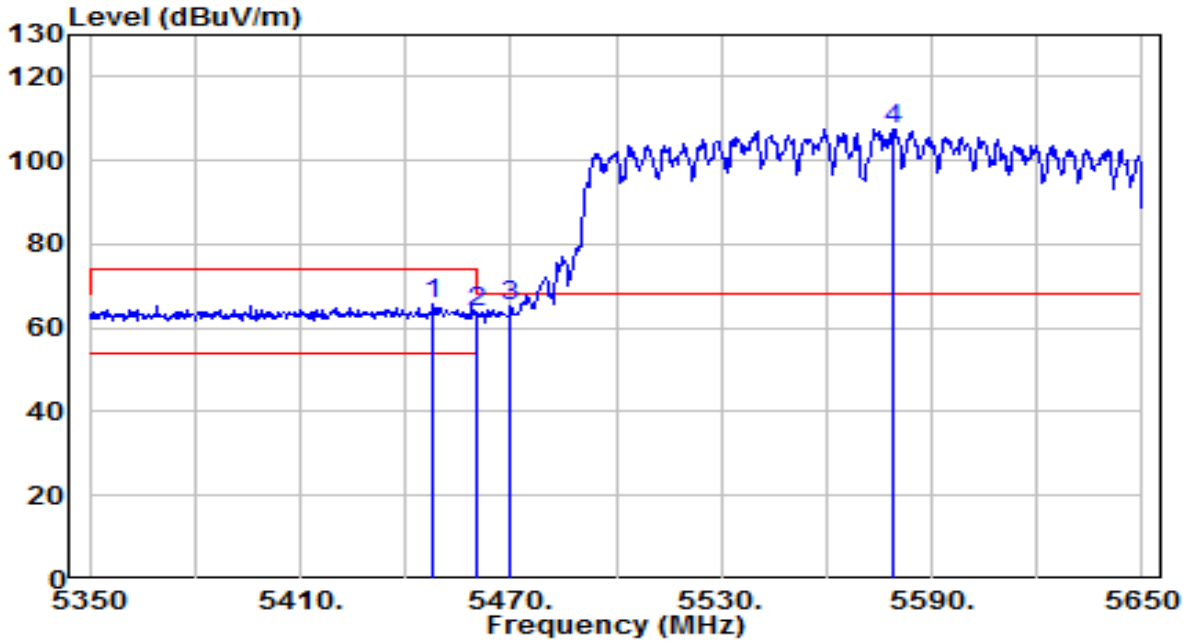


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		5131.700	46.57	5.03	51.61	-2.39	54.00	145	130	Average
2		5150.000	45.57	5.06	50.63	-3.37	54.00	145	130	Average
3		5245.450	80.81	5.17	85.97	N/A	N/A	145	130	Average
4		5350.000	46.41	5.25	51.67	-2.33	54.00	145	130	Average
5	*	5389.300	47.27	5.29	52.56	-1.44	54.00	145	130	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 20dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX6000 Wi-Fi 6 SOHO Router	Date of Test	2025-05-16
Factor	BBHA 9120D	Temp. / Humidity	24°C /58%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11ax-160MHz_TX_Band3_CH 114_ANT 0+1+2+3	Test Voltage	AC 120V/60Hz

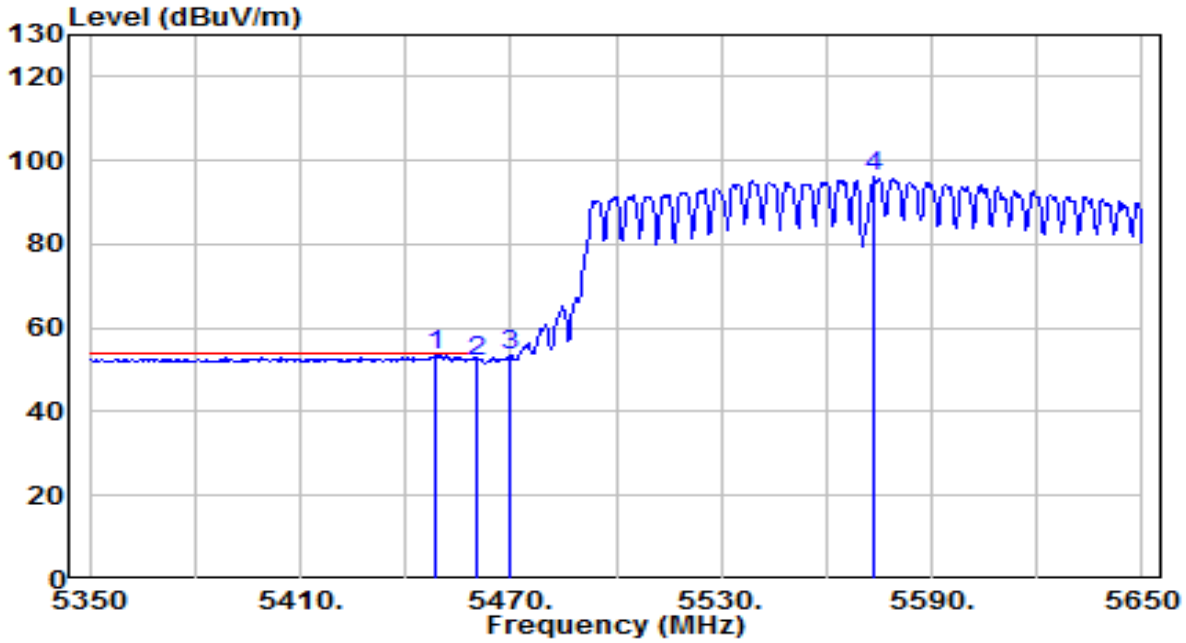


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		5448.100	60.52	5.32	65.84	-8.16	74.00	160	315	Peak
2		5460.000	58.68	5.32	64.01	-4.19	68.20	160	315	Peak
3	*	5470.000	59.83	5.33	65.16	-3.04	68.20	160	315	Peak
4		5579.200	101.95	5.63	107.58	N/A	N/A	160	315	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 20dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX6000 Wi-Fi 6 SOHO Router	Date of Test	2025-05-16
Factor	BBHA 9120D	Temp. / Humidity	24°C /58%
Polarity	Horizontal	Site / Test Engineer	AC1 / Todd
Test Mode	802.11ax-160MHz_TX_Band3_CH 114_ANT 0+1+2+3	Test Voltage	AC 120V/60Hz

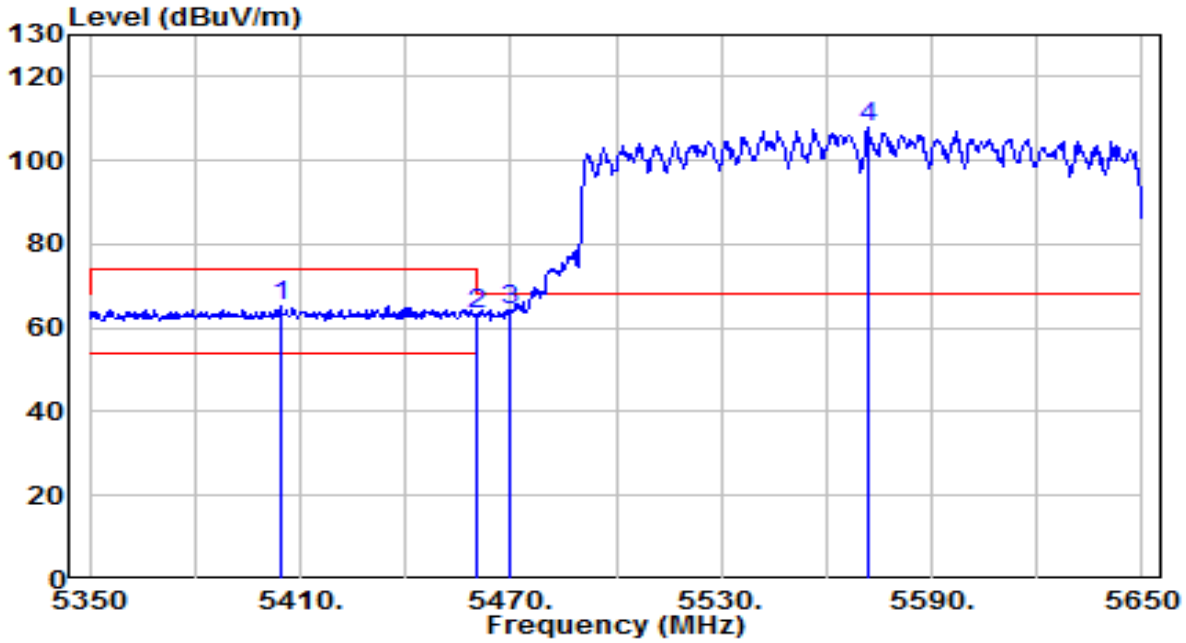


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	5448.400	48.06	5.32	53.37	-0.63	54.00	160	315	Average
2		5460.000	46.88	5.32	52.20	-1.80	54.00	160	315	Average
3		5470.000	48.03	5.33	53.36	N/A	N/A	160	315	Average
4		5573.500	90.42	5.61	96.03	N/A	N/A	160	315	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 20dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX6000 Wi-Fi 6 SOHO Router	Date of Test	2025-05-16
Factor	BBHA 9120D	Temp. / Humidity	24°C /58%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11ax-160MHz_TX_Band3_CH 114_ANT 0+1+2+3	Test Voltage	AC 120V/60Hz

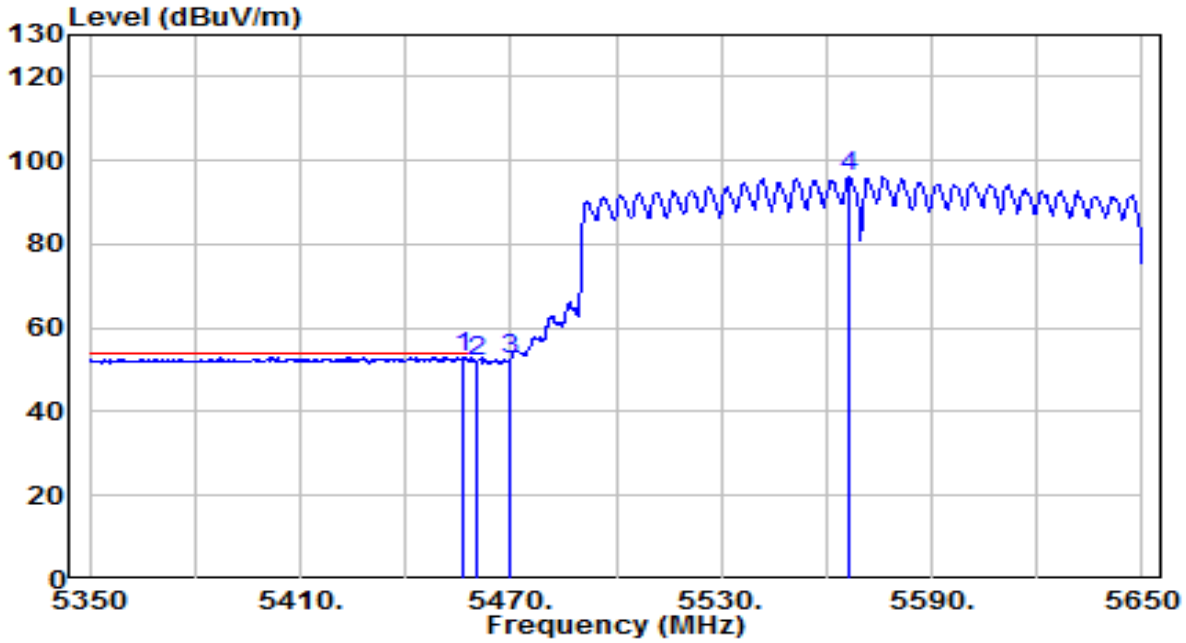


No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1		5404.300	60.05	5.30	65.35	-8.65	74.00	165	45	Peak
2		5460.000	57.83	5.32	63.15	-5.05	68.20	165	45	Peak
3	*	5470.000	58.97	5.33	64.30	-3.90	68.20	165	45	Peak
4		5572.300	102.27	5.60	107.88	N/A	N/A	165	45	Peak

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 20dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

EUT	AX6000 Wi-Fi 6 SOHO Router	Date of Test	2025-05-16
Factor	BBHA 9120D	Temp. / Humidity	24°C /58%
Polarity	Vertical	Site / Test Engineer	AC1 / Todd
Test Mode	802.11ax-160MHz_TX_Band3_CH 114_ANT 0+1+2+3	Test Voltage	AC 120V/60Hz



No		Frequency (MHz)	Reading (dBuV)	C.F (dB/m)	Measurement (dBuV/m)	Margin (dB)	Limit (dBuV/m)	Height (cm)	Angle (deg)	Remark (QP/PK/AV)
1	*	5456.500	47.63	5.32	52.95	-1.05	54.00	165	45	Average
2		5460.000	46.80	5.32	52.12	-1.88	54.00	165	45	Average
3		5470.000	47.34	5.33	52.66	N/A	N/A	165	45	Average
4		5566.600	90.70	5.58	96.29	N/A	N/A	165	45	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = Antenna Factor (dB/m) + Cable Loss (dB) – Preamplifier(dB) + 20dB Attenuation.
3. Measurement (dBuV/m) = Reading(dBuV) + C.F (Correction Factor).
4. The emission levels of other frequencies are very lower than the limit and not show in test report.

7.10. AC Conducted Emissions Measurement

7.10.1. Test Limit

FCC Part 15.207 Limits		
Frequency (MHz)	QP (dBμV)	AV (dBμV)
0.15 - 0.50	66 - 56	56 - 46
0.50 - 5.0	56	46
5.0 - 30	60	50

Note 1: The lower limit shall apply at the transition frequencies.

Note 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.5MHz.

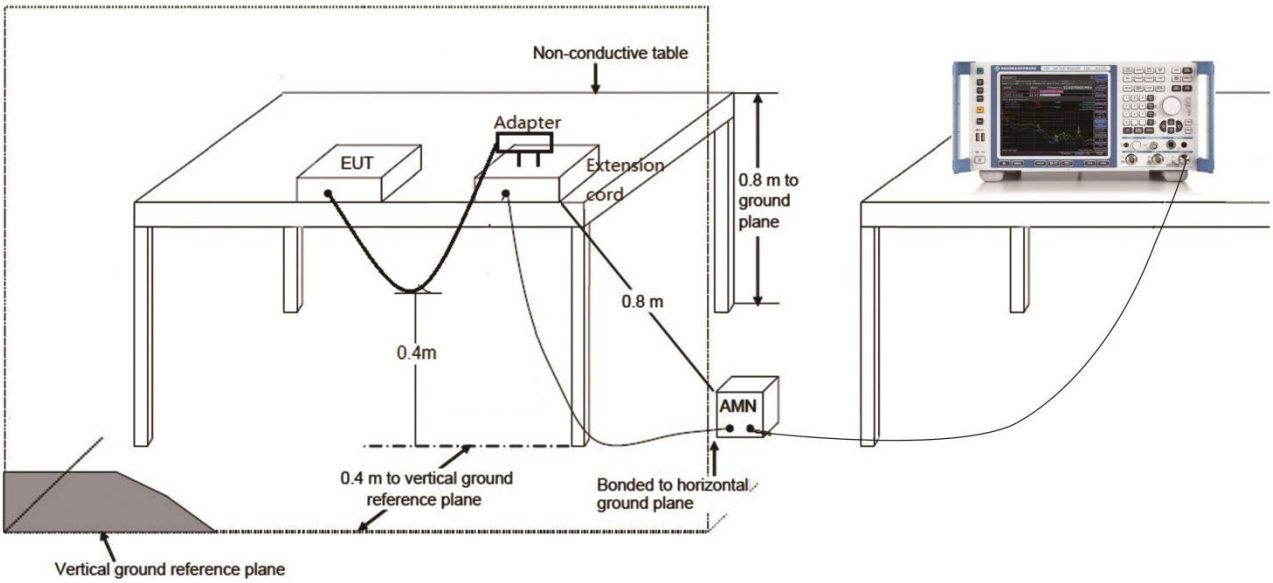
7.10.2. Test Procedure

The EUT was setup according to ANSI C63.4, 2009 and tested according to KDB 789033 for compliance to FCC 47CFR 15.247 requirements.The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.

The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.

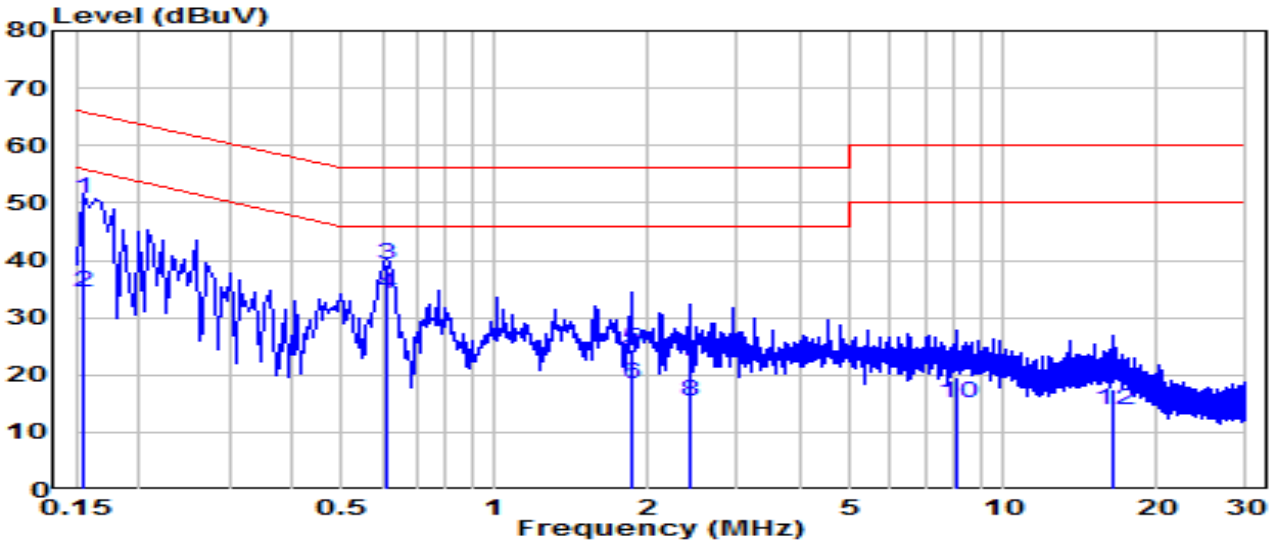
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

7.10.3.Test Setup



7.10.4.Test Result

EUT	AX6000 Wi-Fi 6 SOHO Router	Date of Test	2025-04-10
Factor	CE_ENV216-L1 (Filter ON)	Temp. / Humidity	23.5°C /71%
Polarity	Line1	Site / Test Engineer	SR2 / Ryan
Test Mode	802.11ac-20MHz_TX_Band1_CH 40_ANT 0+1+2+3	Test Voltage	AC 120V/60Hz



No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1		0.154	41.01	9.63	50.64	-15.12	65.75	QP
2		0.154	24.70	9.63	34.33	-21.42	55.75	Average
3	*	0.613	29.49	9.65	39.14	-16.86	56.00	QP
4	*	0.613	24.37	9.65	34.02	-11.98	46.00	Average
5		1.860	14.90	9.70	24.59	-31.41	56.00	QP
6		1.860	8.63	9.70	18.33	-27.67	46.00	Average
7		2.413	12.67	9.71	22.38	-33.62	56.00	QP
8		2.413	5.71	9.71	15.42	-30.58	46.00	Average
9		8.123	9.86	9.82	19.68	-40.32	60.00	QP
10		8.123	5.17	9.82	15.00	-35.00	50.00	Average
11		16.353	7.57	9.91	17.48	-42.52	60.00	QP
12		16.353	3.86	9.91	13.77	-36.23	50.00	Average

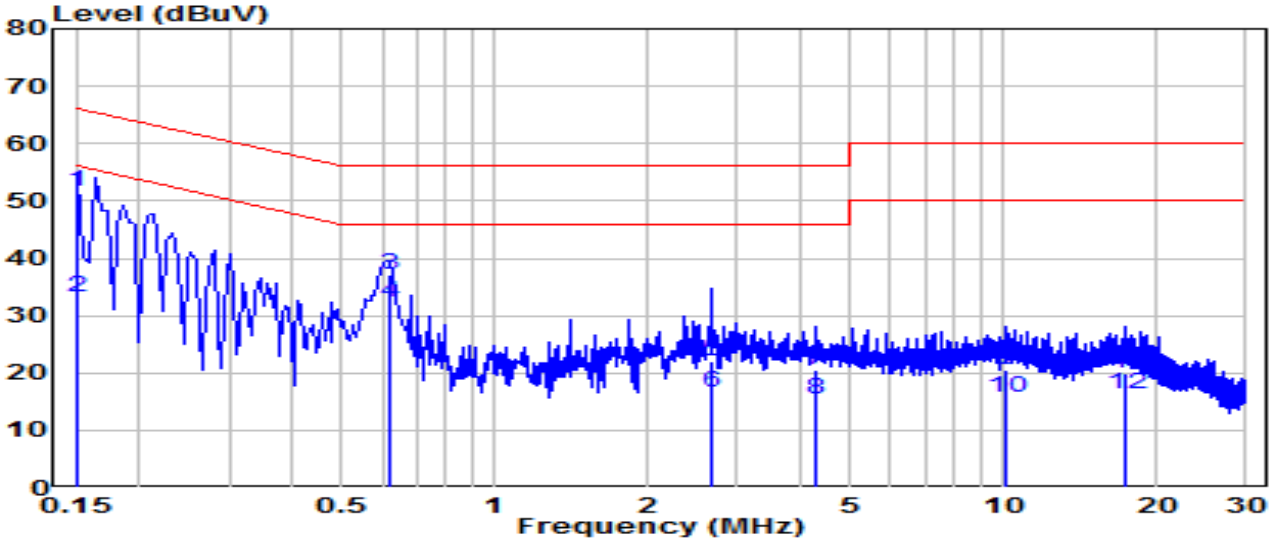
Note:

1. " *", means this data is the worst emission level.

2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).

3. Measurement (dBuV) = Reading(dBuV) + C.F (Correction Factor).

EUT	AX6000 Wi-Fi 6 SOHO Router	Date of Test	2025-04-10
Factor	CE_ENV216-N (Filter ON)	Temp. / Humidity	23.5°C /71%
Polarity	Neutral	Site / Test Engineer	SR2 / Ryan
Test Mode	802.11ac-20MHz_TX_Band1_CH 40_ANT 0+1+2+3	Test Voltage	AC 120V/60Hz



No		Frequency (MHz)	Reading (dBuV)	C.F (dB)	Measurement (dBuV)	Margin (dB)	Limit (dBuV)	Remark (QP/PK/AV)
1		0.150	41.90	9.63	51.53	-14.47	66.00	QP
2		0.150	23.68	9.63	33.31	-22.69	56.00	Average
3	*	0.622	27.63	9.65	37.28	-18.72	56.00	QP
4	*	0.622	22.72	9.65	32.36	-13.64	46.00	Average
5		2.661	12.31	9.71	22.02	-33.98	56.00	QP
6		2.661	6.97	9.71	16.68	-29.32	46.00	Average
7		4.294	10.76	9.73	20.49	-35.51	56.00	QP
8		4.294	5.60	9.73	15.34	-30.66	46.00	Average
9		10.085	10.63	9.87	20.50	-39.50	60.00	QP
10		10.085	5.84	9.87	15.71	-34.29	50.00	Average
11		17.455	10.07	9.95	20.02	-39.98	60.00	QP
12		17.455	6.34	9.95	16.28	-33.72	50.00	Average

Note:

1. " *", means this data is the worst emission level.
2. C.F (Correction Factor) = LISN Factor (dB)+ Cable Loss (dB).
3. Measurement (dBuV) = Reading(dBuV) + C.F (Correction Factor).

8. CONCLUSION

The data collected relate only the item(s) tested and show that the device is in compliance with Part 15E of the FCC Rules.

Appendix A : Test Setup Photograph

Refer to “2502TWL805-UT” file.

Appendix B : EUT Photograph

Refer to “2502TWL805-UE” file.

Appendix C : Internal Photograph

Refer to “2502TWL805-UI” file.

The End