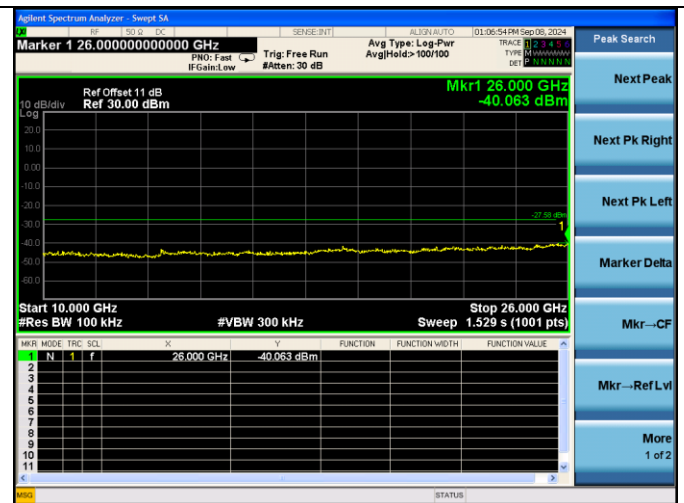
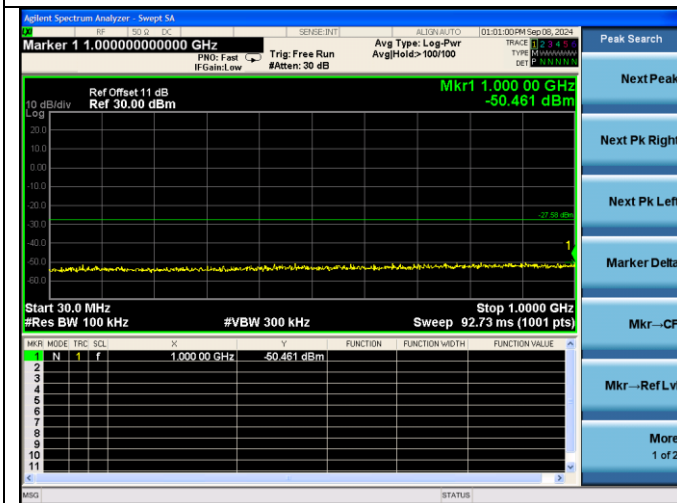
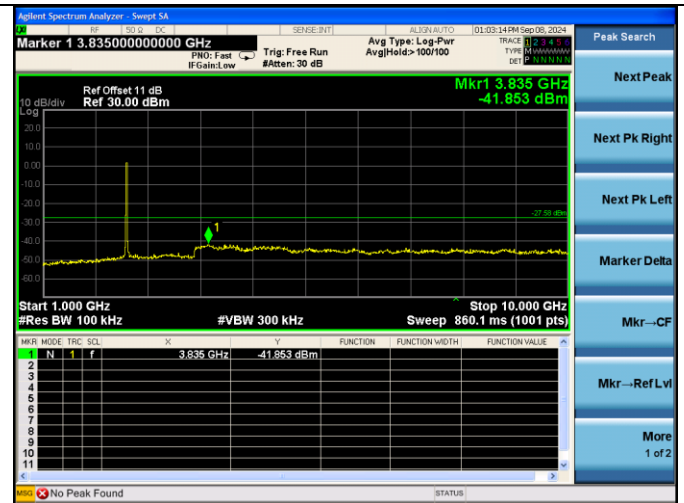
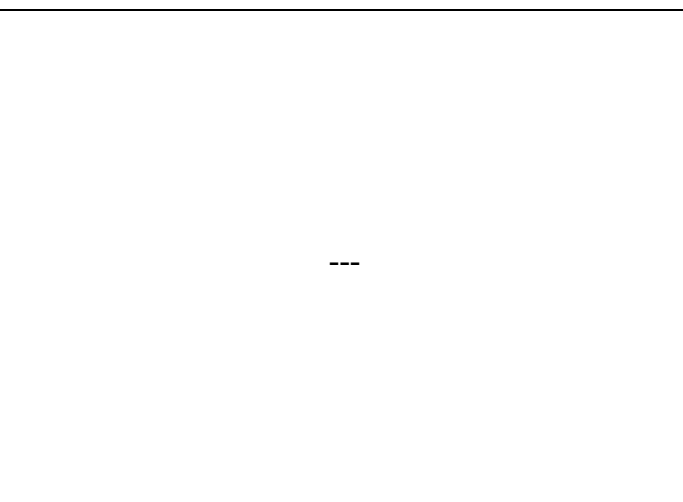
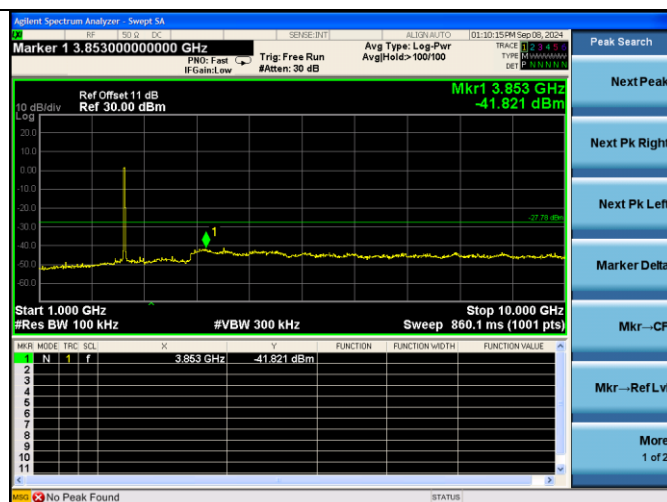
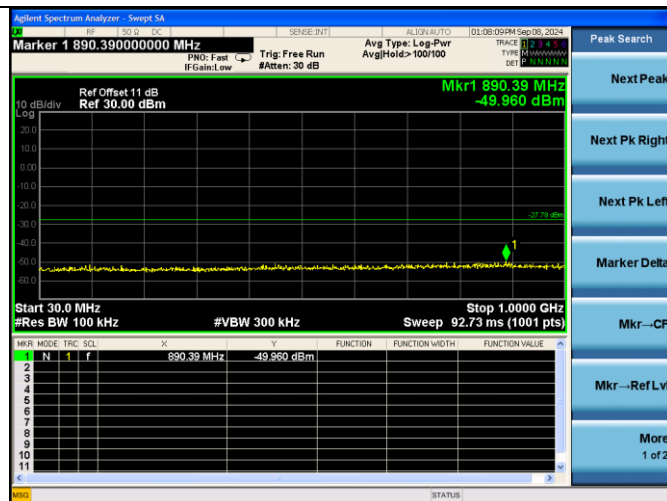
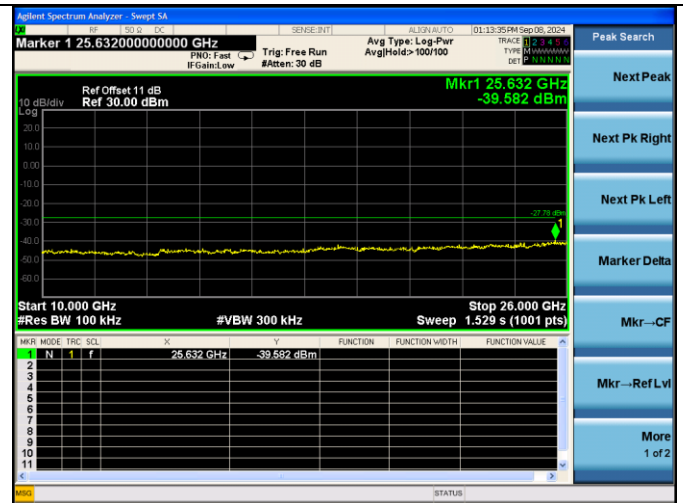


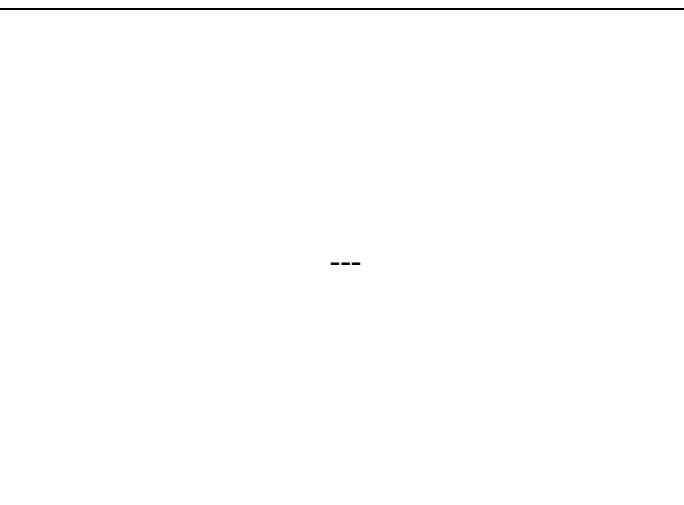
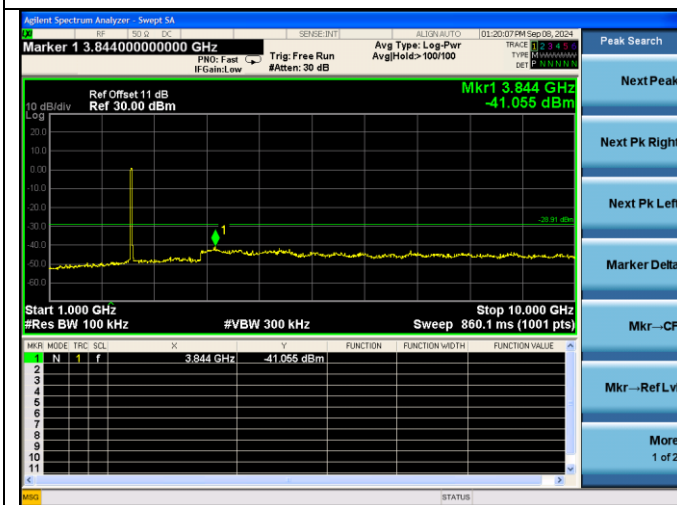
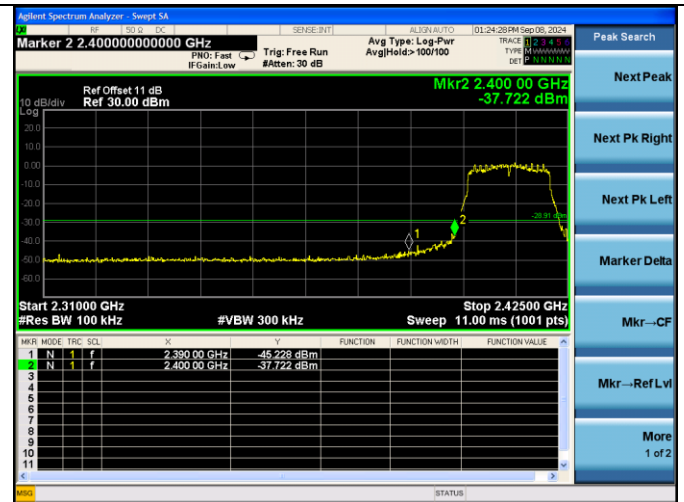
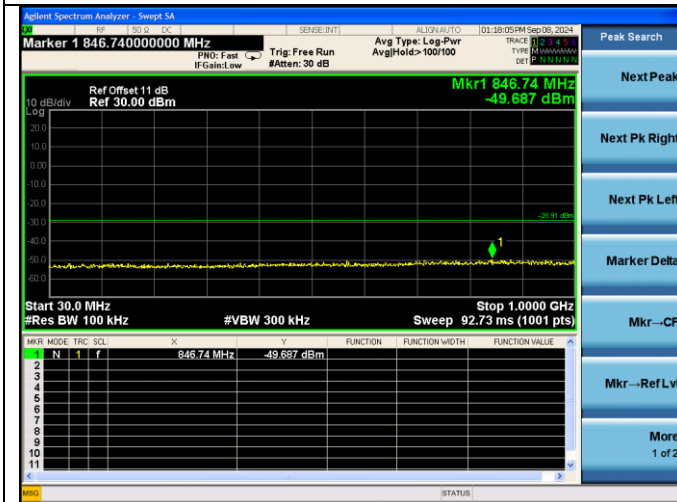
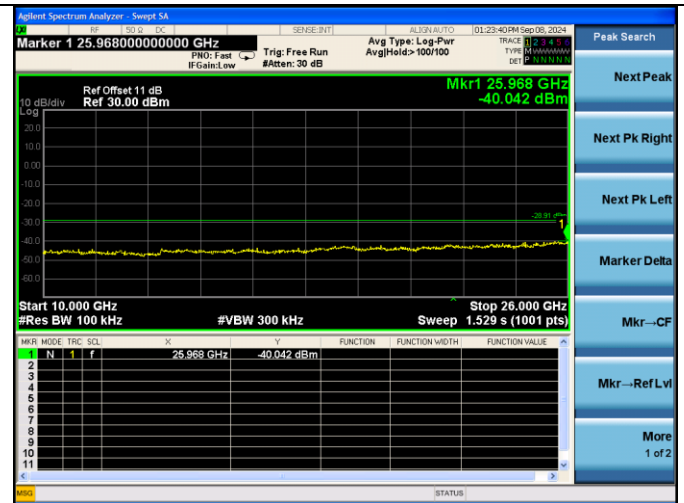
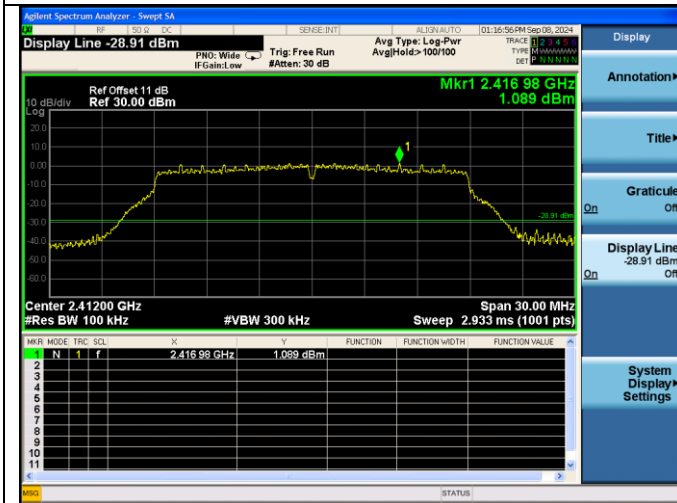
Test CH6: 2437MHz



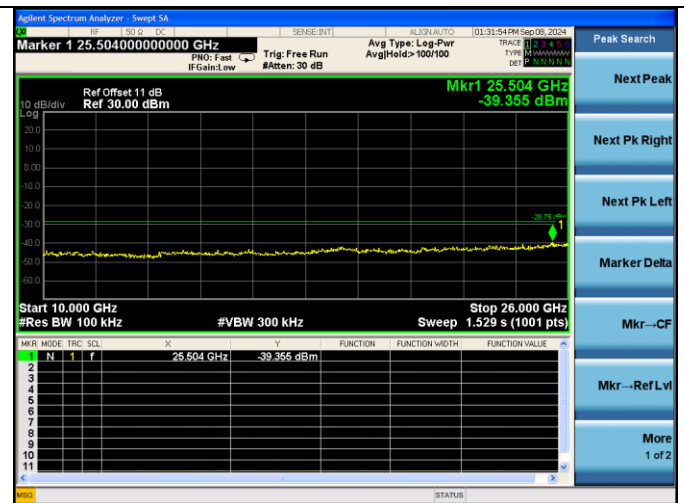
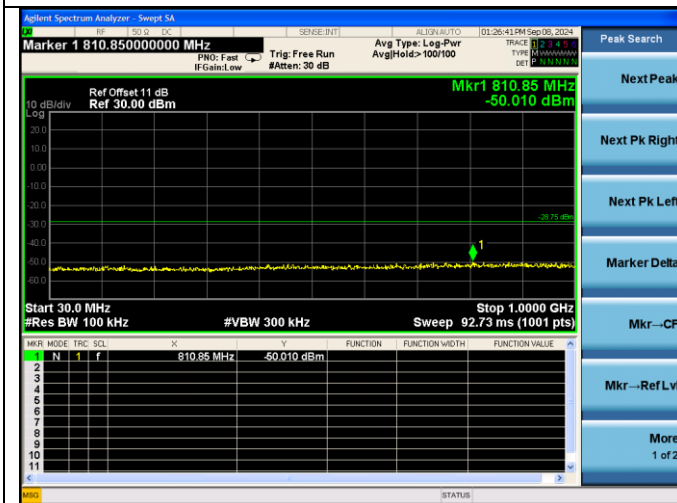
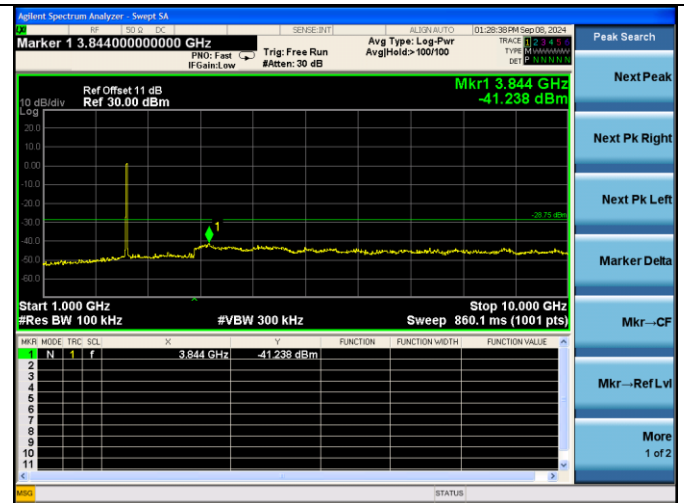
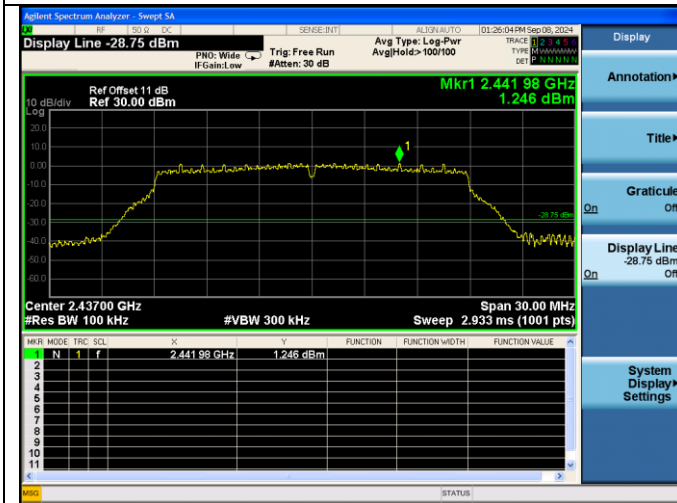
Test CH11: 2462MHz



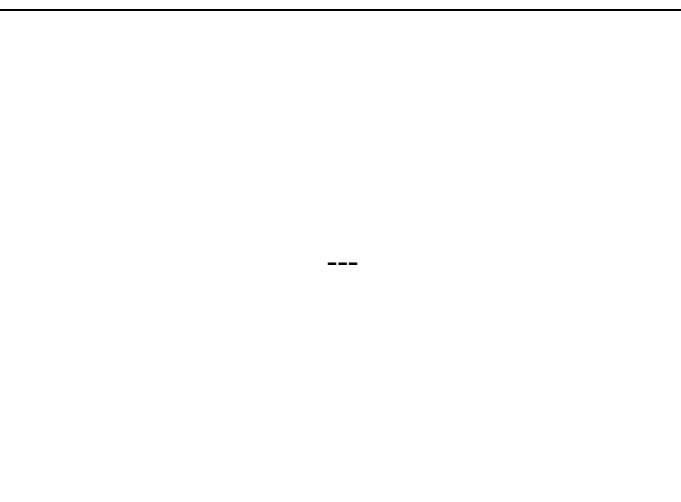
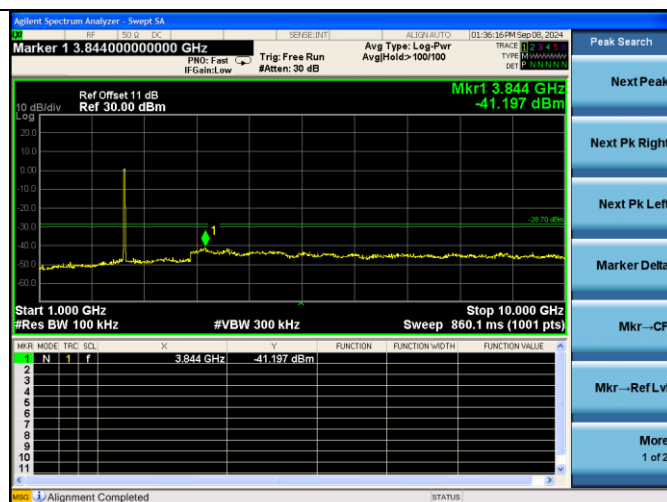
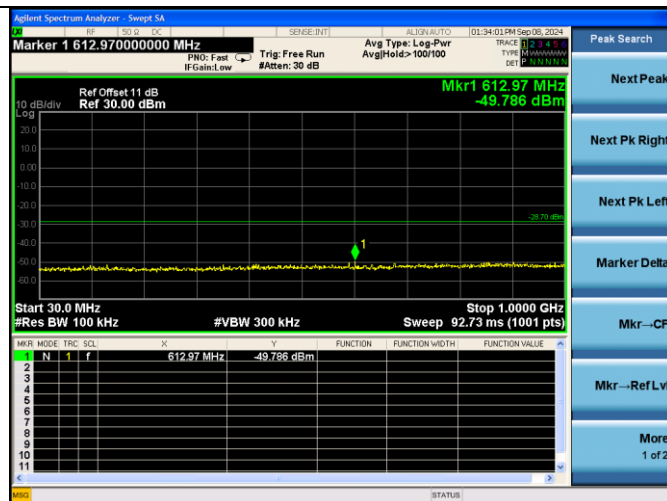
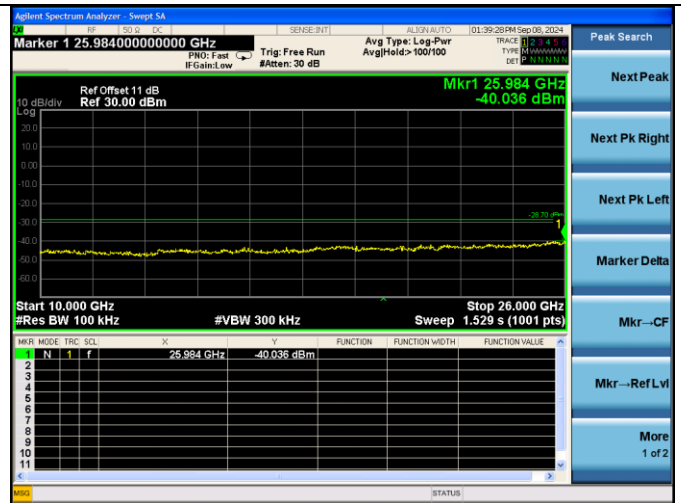
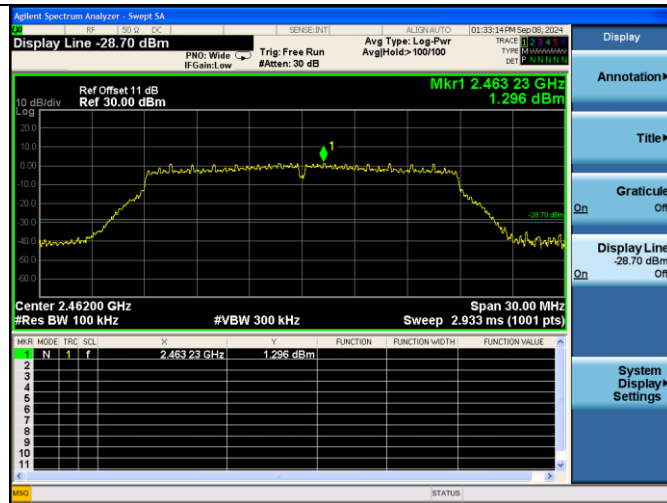
Test Mode: IEEE 802.11n HT20
Test CH1: 2412MHz



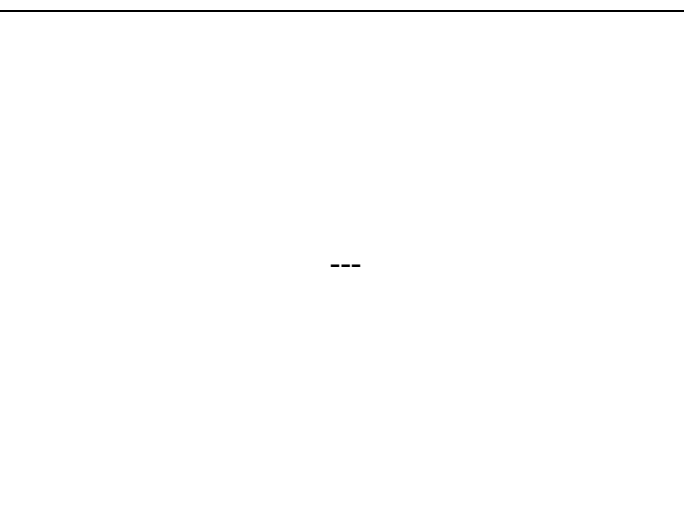
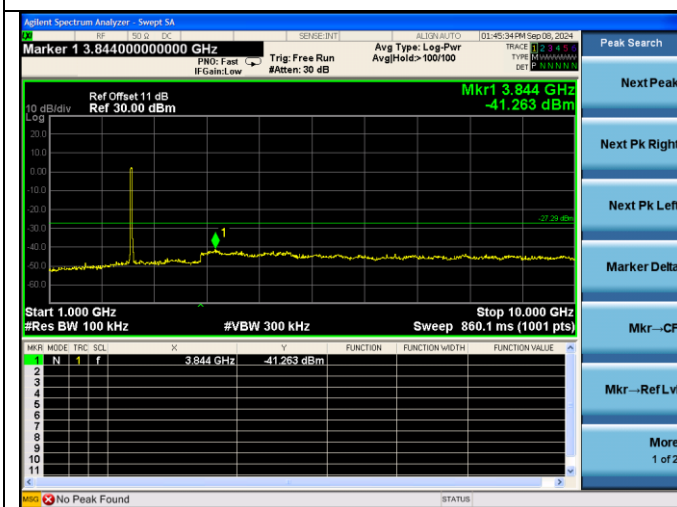
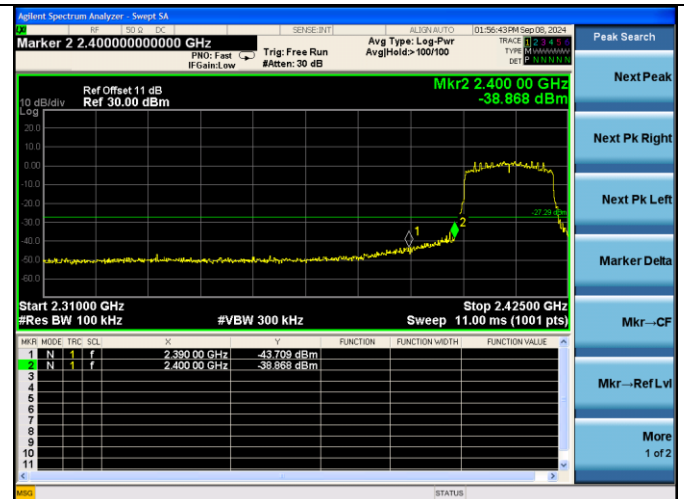
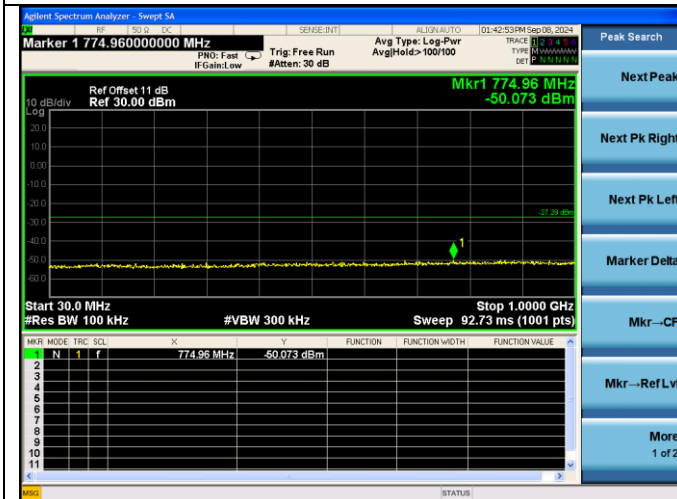
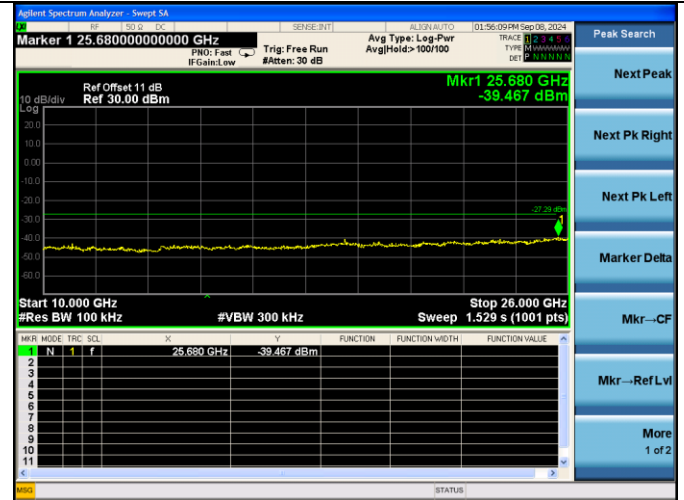
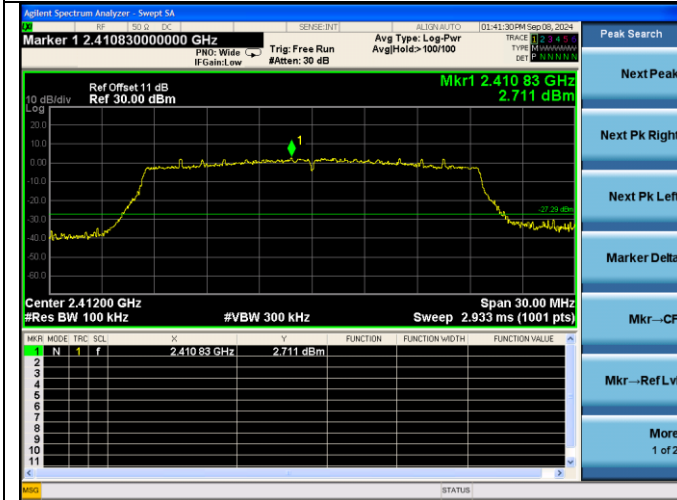
Test CH6: 2437MHz



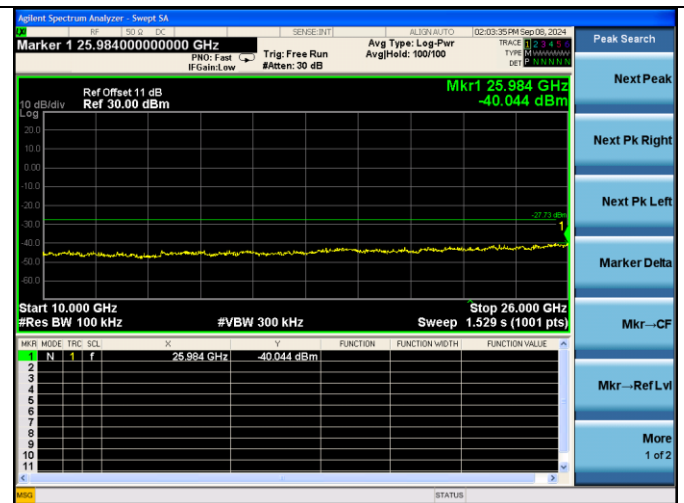
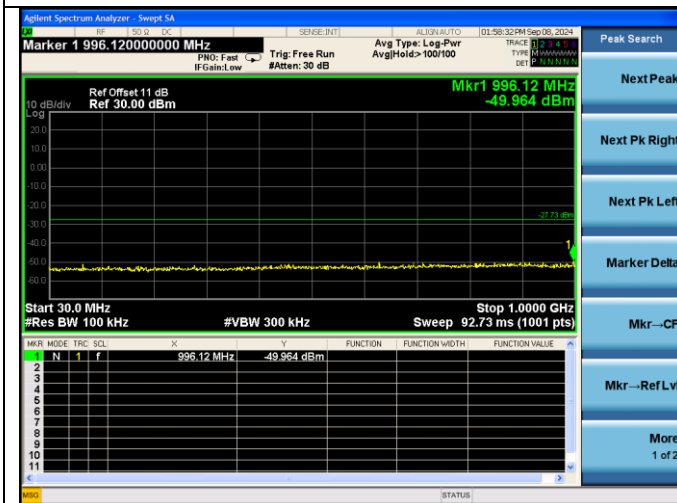
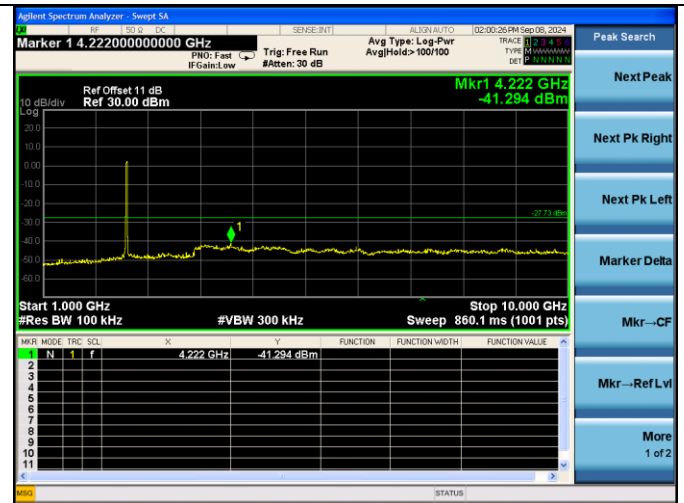
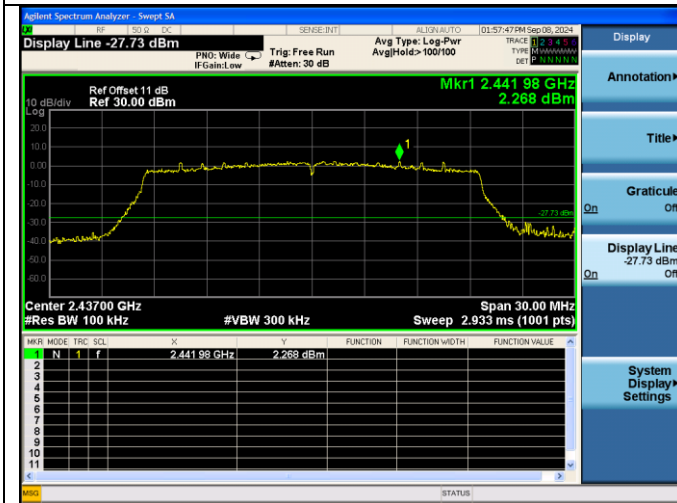
Test CH11: 2462MHz



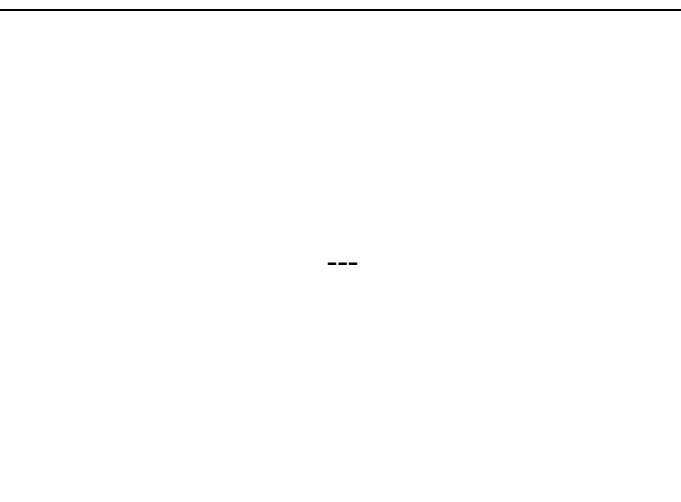
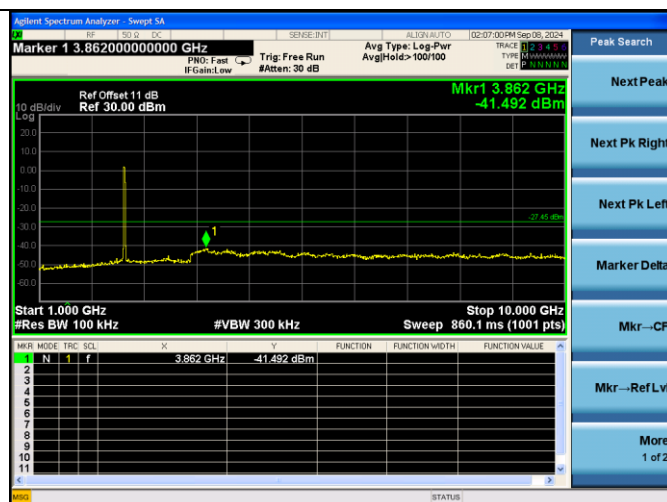
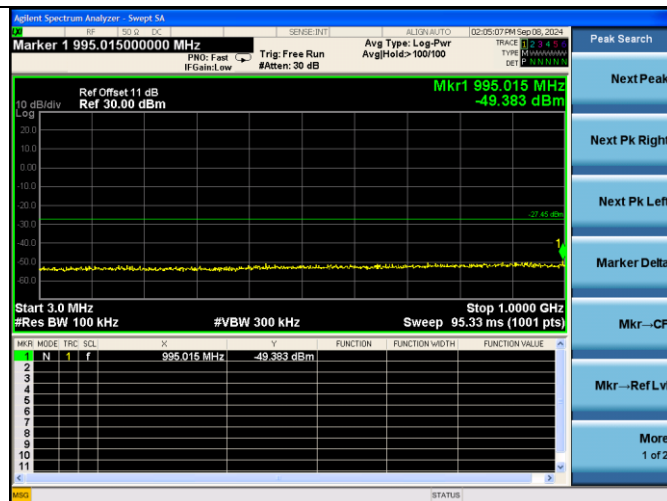
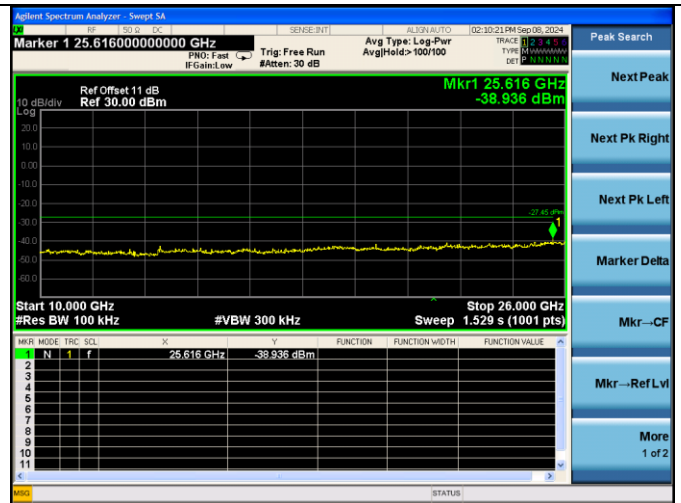
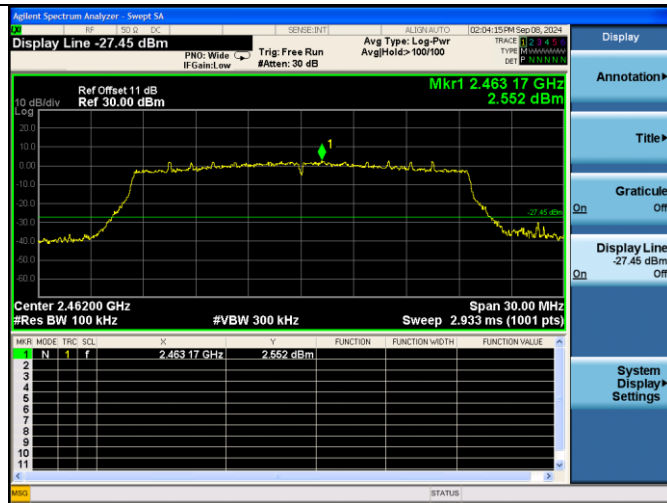
Test Mode: IEEE 802.11ax HE20
Test CH1: 2412MHz



Test CH6: 2437MHz



Test CH11: 2462MHz



6. BAND EDGE COMPLIANCE TEST

6.1.Limit

All the lower and upper band-edges emissions appearing within 2310MHz to 2390MHz and 2483.5MHz to 2500MHz restricted frequency bands shall not exceed the limits shown in 15.209, all the other emissions outside operation frequency band 2400MHz to 2483.5MHz shall be at least 20dB below the fundamental emissions, or comply with 15.209 limits.

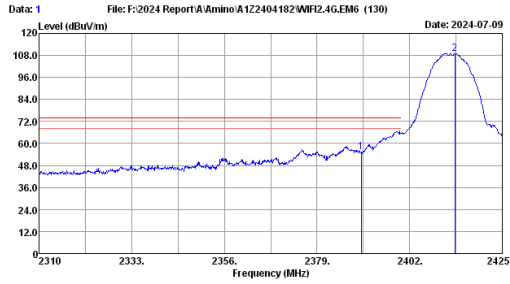
6.2.Test Procedure

1. The EUT is placed on a turntable, which is 1.5m above the ground plane and worked at highest radiated power.
2. The turntable was rotated for 360 degrees to determine the position of maximum emission level.
3. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.
4. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:
 - (a) PEAK: RBW=1MHz; VBW=3MHz; Sweep=AUTO
 - (b) AVERAGE: RBW=1MHz; VBW=10Hz; Sweep=AUTO

6.3.Test Results

Pass (The testing data was attached in the next pages.)

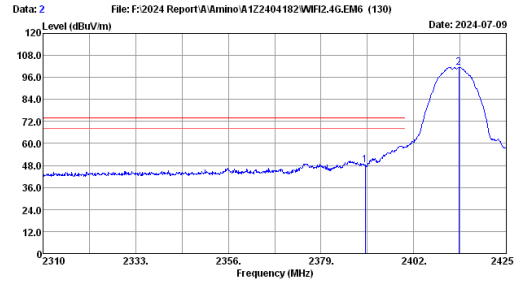
SISO Mode ANT 0 11b



Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 2023 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 21.5°C/53.1% Engineer : WINTER
 Test Mode : WiFi2.4G 11b 2412MHz ANT0 TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.62	5.30	54.57	32.23	55.26	74.00	18.74	Peak
2	2413.27	27.65	5.32	108.21	32.21	108.97	-----	-----	Peak

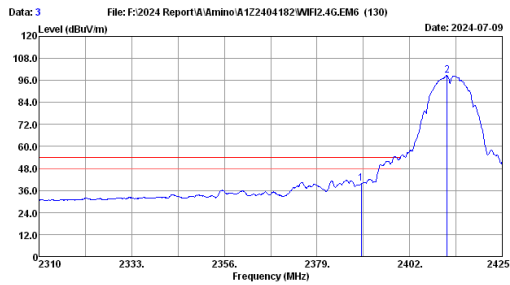
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2023 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 21.5°C/53.1% Engineer : WINTER
 Test Mode : WiFi2.4G 11b 2412MHz ANT0 TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.62	5.30	47.45	32.23	48.14	74.00	25.86	Peak
2	2413.27	27.65	5.32	100.84	32.21	101.60	-----	-----	Peak

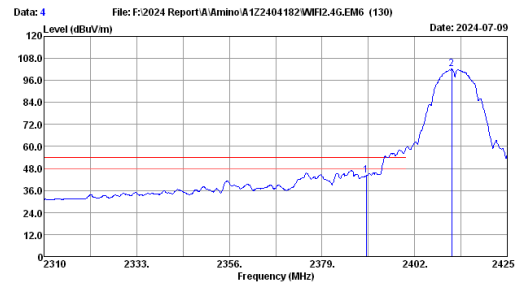
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 3
 Dis. / Ant. : 3m 2023 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 21.5°C/53.1% Engineer : WINTER
 Test Mode : WiFi2.4G 11b 2412MHz ANT0 TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.62	5.30	39.99	32.23	39.68	54.00	14.32	Average
2	2411.32	27.65	5.32	97.88	32.21	98.64	-----	-----	Average

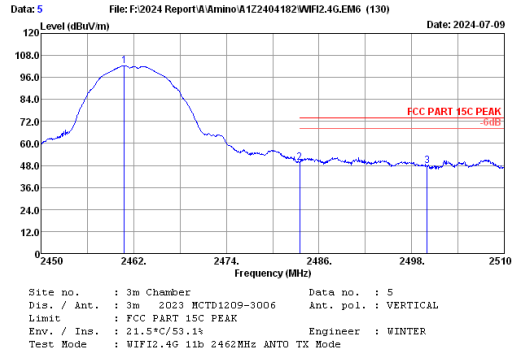
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 2023 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 21.5°C/53.1% Engineer : WINTER
 Test Mode : WiFi2.4G 11b 2412MHz ANT0 TX Mode

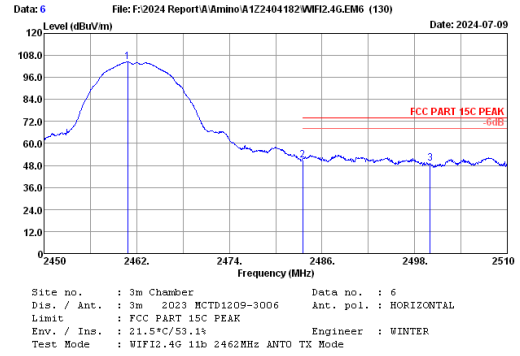
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.62	5.30	49.44	32.23	44.13	54.00	9.87	Average
2	2411.20	27.64	5.32	101.51	32.21	102.26	-----	-----	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



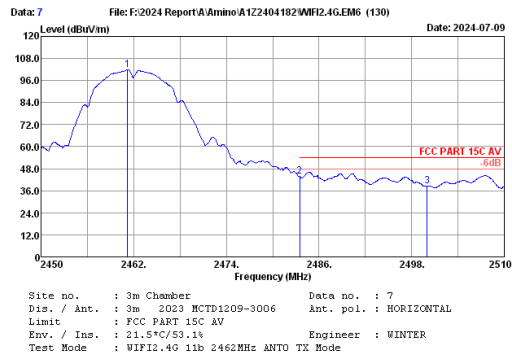
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.80	27.80	5.39	101.30	32.18	102.31	74.00	28.31	Peak
2	2463.50	27.80	5.41	48.67	32.16	49.72	74.00	24.28	Peak
3	2500.00	27.80	5.44	46.62	32.15	47.91	74.00	26.09	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



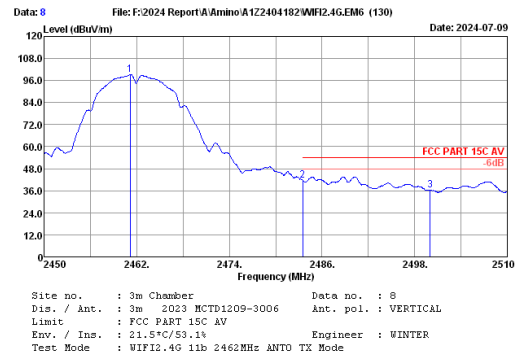
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.86	27.80	5.39	103.34	32.18	104.35	74.00	30.35	Peak
2	2483.50	27.80	5.41	49.81	32.16	50.86	74.00	23.14	Peak
3	2500.00	27.80	5.44	47.88	32.15	48.97	74.00	25.03	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2461.22	27.80	5.39	100.92	32.18	101.93	74.00	27.93	Average
2	2483.50	27.80	5.41	42.64	32.16	43.69	74.00	30.31	Average
3	2500.00	27.80	5.44	37.42	32.15	38.51	74.00	35.49	Average

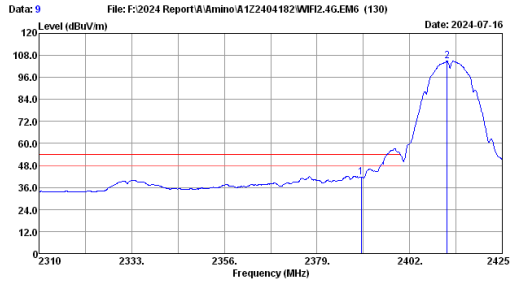
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2461.16	27.80	5.39	98.14	32.18	99.15	74.00	25.15	Average
2	2483.50	27.80	5.41	40.73	32.16	41.78	74.00	32.22	Average
3	2500.00	27.80	5.44	35.21	32.15	36.30	74.00	37.70	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

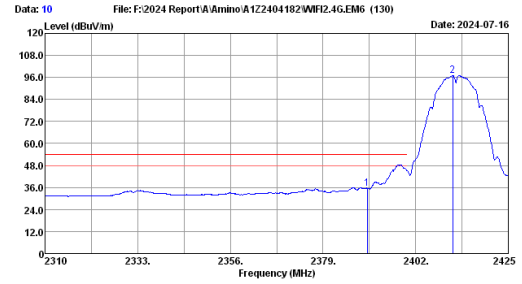
SISO Mode ANT 1 11b



Site no. : 3m Chamber Data no. : 9
 Dis. / Ant. : 3m 2023 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 21.5°C/53.1% Engineer : WINTER
 Test Mode : WiFi2.4G 11b 2412MHz ANT1 TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.62	5.30	40.47	31.70	41.69	54.00	12.31	Average
2	2411.32	27.65	5.32	103.73	31.69	105.01	-----	-----	Average

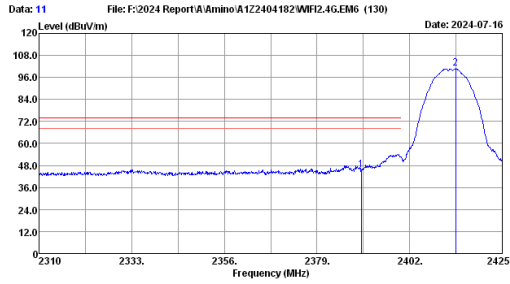
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 2023 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 21.5°C/53.1% Engineer : WINTER
 Test Mode : WiFi2.4G 11b 2412MHz ANT1 TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.62	5.30	34.32	31.70	35.54	54.00	18.46	Average
2	2411.20	27.64	5.32	95.91	31.69	97.18	-----	-----	Average

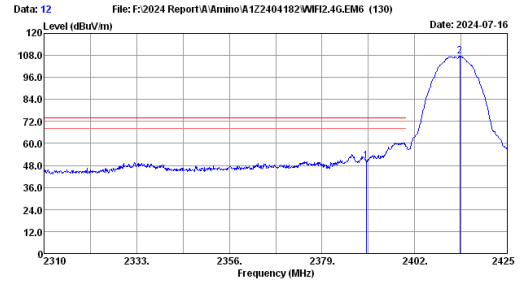
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 11
 Dis. / Ant. : 3m 2023 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 21.5°C/53.1% Engineer : WINTER
 Test Mode : WiFi2.4G 11b 2412MHz ANT1 TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.62	5.30	48.25	31.70	45.47	74.00	28.53	Peak
2	2411.39	27.65	5.32	99.46	31.69	100.74	-----	-----	Peak

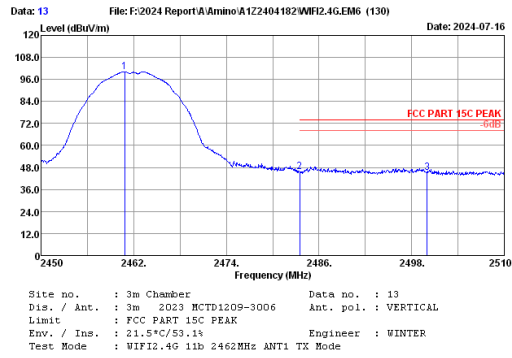
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 12
 Dis. / Ant. : 3m 2023 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 21.5°C/53.1% Engineer : WINTER
 Test Mode : WiFi2.4G 11b 2412MHz ANT1 TX Mode

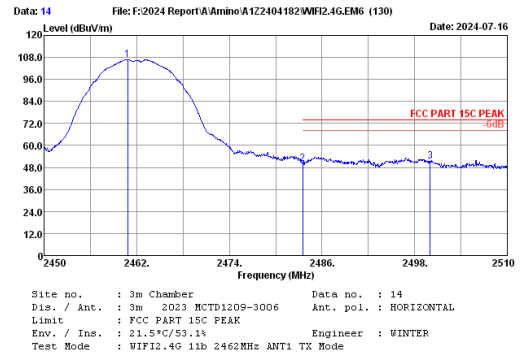
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.62	5.30	49.26	31.70	50.48	74.00	23.52	Peak
2	2411.27	27.65	5.32	106.15	31.69	107.43	-----	-----	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



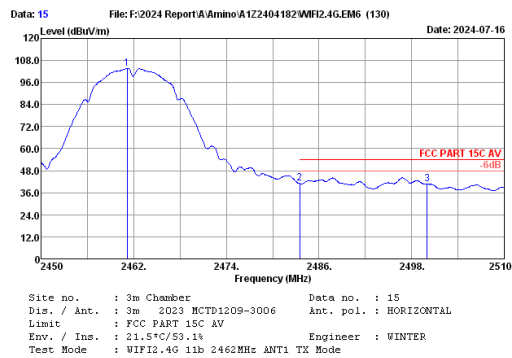
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.86	27.80	5.39	98.60	31.67	100.12	-----	-----	Peak
2	2483.50	27.80	5.41	44.13	31.66	45.68	74.00	28.32	Peak
3	2500.00	27.80	5.44	43.75	31.65	45.34	74.00	28.66	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



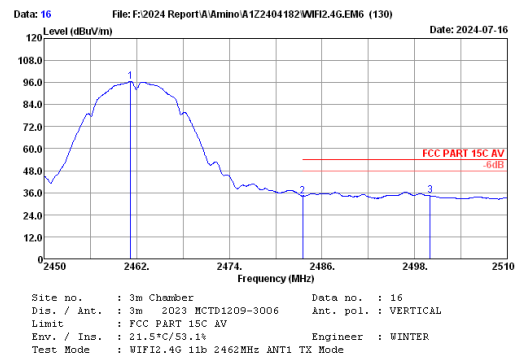
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.86	27.80	5.39	105.20	31.67	106.72	-----	-----	Peak
2	2483.50	27.80	5.41	48.66	31.66	50.21	74.00	23.79	Peak
3	2500.00	27.80	5.44	49.97	31.65	51.56	74.00	22.44	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2461.16	27.80	5.39	102.24	31.67	103.76	-----	-----	Average
2	2483.50	27.80	5.41	39.43	31.66	40.98	54.00	13.02	Average
3	2500.00	27.80	5.44	39.21	31.65	40.80	54.00	13.20	Average

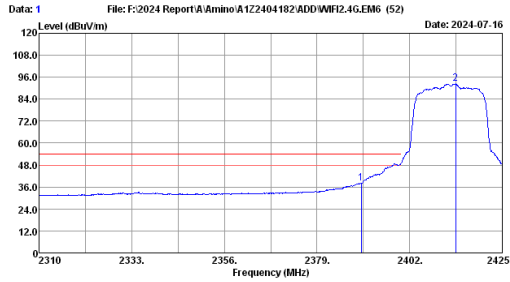
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2461.22	27.80	5.39	95.02	31.67	96.54	-----	-----	Average
2	2483.50	27.80	5.41	32.71	31.66	34.26	54.00	19.74	Average
3	2500.00	27.80	5.44	32.79	31.65	34.38	54.00	19.62	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

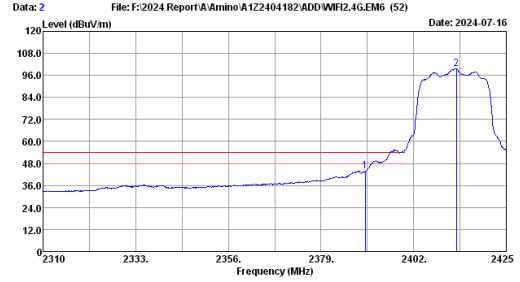
SISO Mode ANT0 11g



Site no. : 3m Chamber Data no. : 1
 Dis. / Ant. : 3m 2023 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 21.5°C/53.1% Engineer : WINTER
 Test Mode : WiFi2.4G 11g 2412MHz ANT0 TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.62	5.30	36.75	31.70	37.97	54.00	16.03	Average
2	2413.39	27.65	5.32	91.10	31.69	92.38	-----	-----	Average

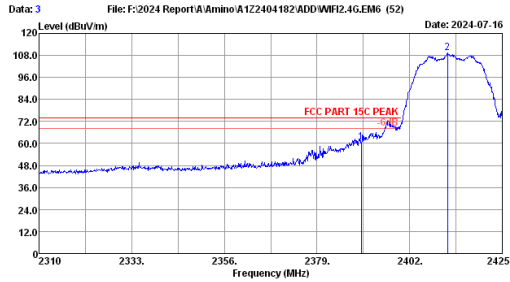
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m 2023 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 21.5°C/53.1% Engineer : WINTER
 Test Mode : WiFi2.4G 11g 2412MHz ANT0 TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.62	5.30	42.60	31.70	43.82	54.00	10.18	Average
2	2412.58	27.65	5.32	98.17	31.69	99.45	-----	-----	Average

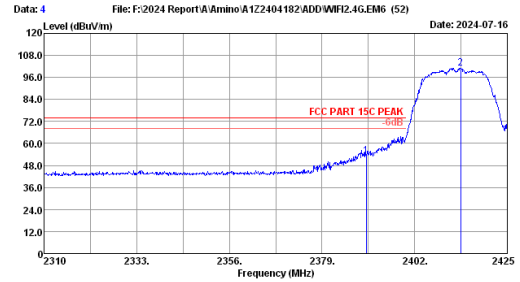
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 3
 Dis. / Ant. : 3m 2023 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 21.5°C/53.1% Engineer : WINTER
 Test Mode : WiFi2.4G 11g 2412MHz ANT0 TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.62	5.30	59.41	31.70	60.63	74.00	13.37	Peak
2	2411.43	27.65	5.32	108.05	31.69	109.33	-----	-----	Peak

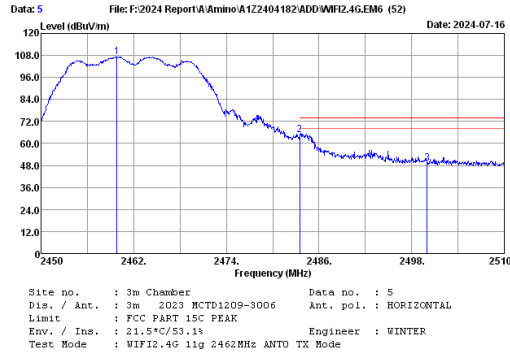
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 4
 Dis. / Ant. : 3m 2023 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 21.5°C/53.1% Engineer : WINTER
 Test Mode : WiFi2.4G 11g 2412MHz ANT0 TX Mode

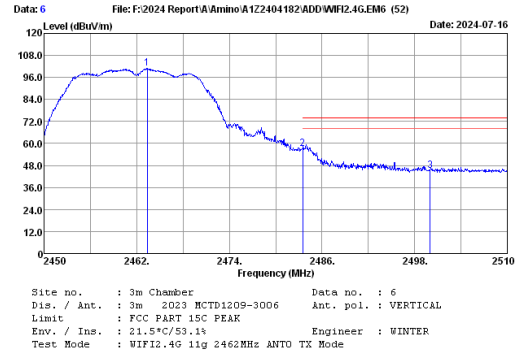
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.62	5.30	51.99	31.70	53.21	74.00	20.79	Peak
2	2413.39	27.65	5.32	99.70	31.69	100.98	-----	-----	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



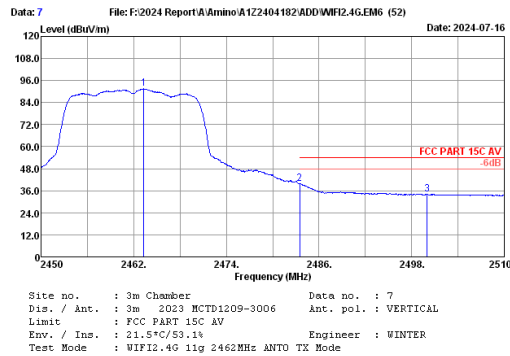
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2459.04	27.80	5.39	105.70	31.67	107.22	74.00	9.49	Peak
2	2463.50	27.80	5.41	62.96	31.66	64.51	74.00	24.95	Peak
3	2500.00	27.80	5.44	47.46	31.65	49.05	74.00	24.95	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



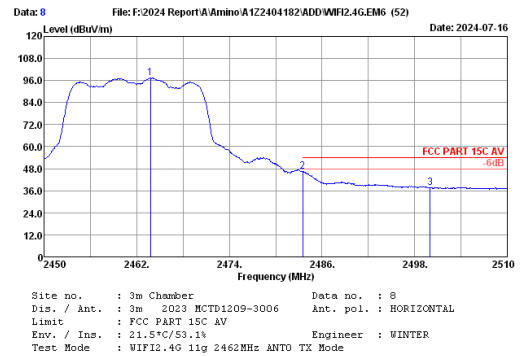
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2463.38	27.80	5.39	99.43	31.67	100.95	74.00	17.08	Peak
2	2483.50	27.80	5.41	55.37	31.66	56.92	74.00	28.82	Peak
3	2500.00	27.80	5.44	43.59	31.65	45.18	74.00	28.82	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2463.32	27.80	5.39	90.07	31.67	91.59	54.00	14.28	Average
2	2483.50	27.80	5.41	38.17	31.66	39.72	54.00	20.02	Average
3	2500.00	27.80	5.44	32.39	31.65	33.98	54.00	20.02	Average

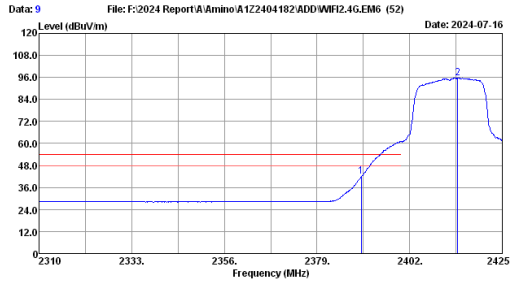
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2463.80	27.80	5.39	95.87	31.67	97.39	54.00	7.50	Average
2	2483.50	27.80	5.41	44.95	31.66	46.50	54.00	16.41	Average
3	2500.00	27.80	5.44	36.00	31.65	37.59	54.00	16.41	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

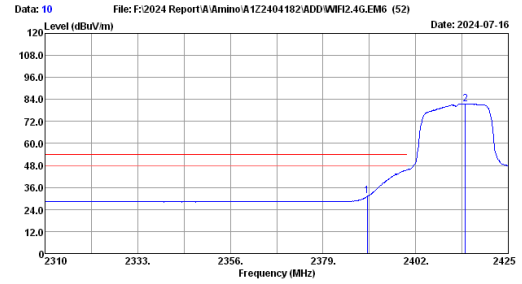
SISO Mode ANT1 11g



Site no. : 3m Chamber Data no. : 9
 Dis. / Ant. : 3m 2023 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 21.5°C/53.1% Engineer : WINTER
 Test Mode : WiFi2.4G 11g 2412MHz ANT1 TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.62	2.83	43.10	31.70	41.85	54.00	12.15	Average
2	2413.96	27.66	2.84	97.02	31.69	95.83	-----	-----	Average

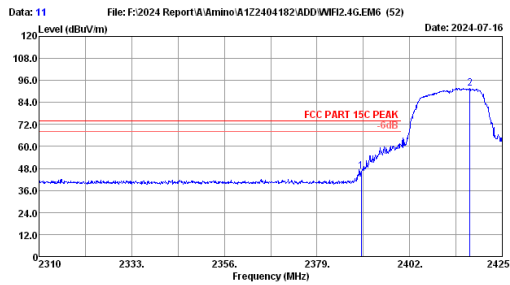
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 2023 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 21.5°C/53.1% Engineer : WINTER
 Test Mode : WiFi2.4G 11g 2412MHz ANT1 TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.62	2.83	32.50	31.70	31.25	54.00	22.75	Average
2	2414.31	27.66	2.84	82.87	31.69	81.68	-----	-----	Average

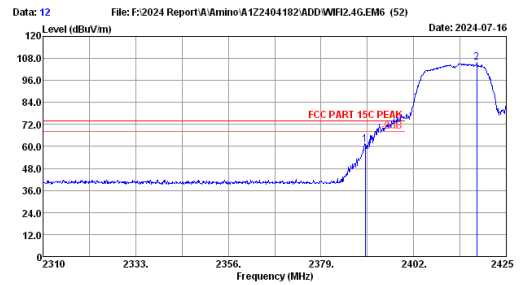
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 11
 Dis. / Ant. : 3m 2023 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 21.5°C/53.1% Engineer : WINTER
 Test Mode : WiFi2.4G 11g 2412MHz ANT1 TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.62	2.83	47.85	31.70	46.60	74.00	27.40	Peak
2	2416.95	27.67	2.85	95.01	31.69	91.84	-----	-----	Peak

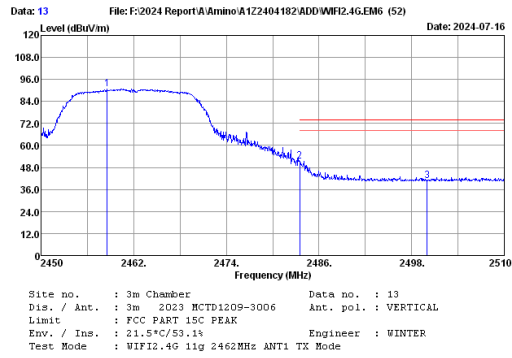
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 12
 Dis. / Ant. : 3m 2023 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 21.5°C/53.1% Engineer : WINTER
 Test Mode : WiFi2.4G 11g 2412MHz ANT1 TX Mode

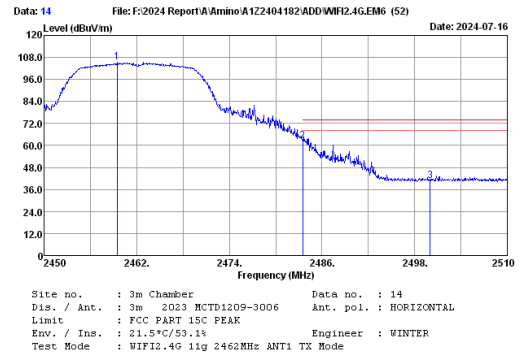
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.62	2.83	62.32	31.70	61.07	74.00	12.93	Peak
2	2417.64	27.67	2.85	106.92	31.69	105.75	-----	-----	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



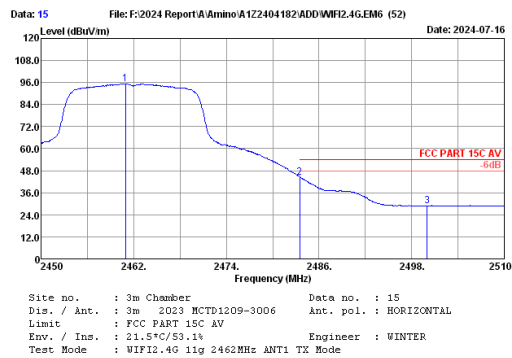
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2458.58	27.80	2.87	91.66	31.67	90.66	74.00	22.49	Peak
2	2483.50	27.80	2.88	52.49	31.66	51.51	74.00	33.23	Peak
3	2500.00	27.80	2.88	41.74	31.65	40.77	74.00	33.23	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



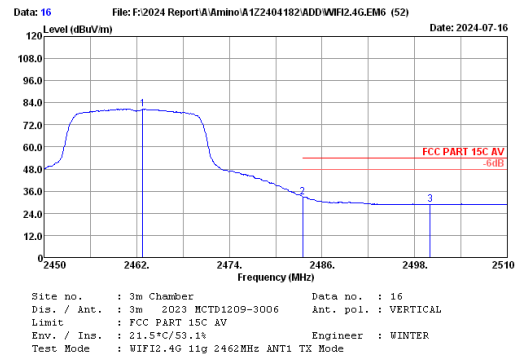
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2459.48	27.80	2.87	106.54	31.67	105.54	74.00	11.96	Peak
2	2483.50	27.80	2.88	63.62	31.66	62.64	74.00	33.04	Peak
3	2500.00	27.80	2.88	41.93	31.65	40.96	74.00	33.04	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2460.92	27.80	2.87	96.41	31.67	95.41	54.00	9.59	Average
2	2483.50	27.80	2.88	45.39	31.66	44.41	54.00	25.12	Average
3	2500.00	27.80	2.88	29.85	31.65	28.88	54.00	25.12	Average

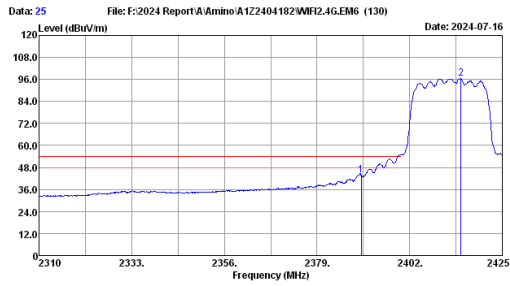
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.78	27.80	2.87	81.66	31.67	80.66	54.00	21.09	Average
2	2483.50	27.80	2.88	33.89	31.66	32.91	54.00	25.16	Average
3	2500.00	27.80	2.88	29.81	31.65	28.84	54.00	25.16	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

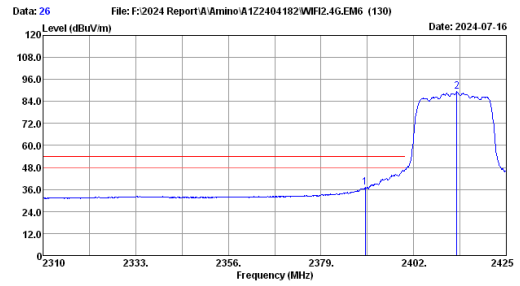
MIMO Mode 11n20



Site no. : 3m Chamber Data no. : 25
 Dis. / Ant. : 3m 2023 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 21.5°C/53.1% Engineer : WINTER
 Test Mode : WiFi2.4G 11n20 2412MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.62	5.30	42.61	31.70	43.83	54.00	10.17	Average
2	2414.77	27.66	5.32	95.22	31.69	96.51	-----	-----	Average

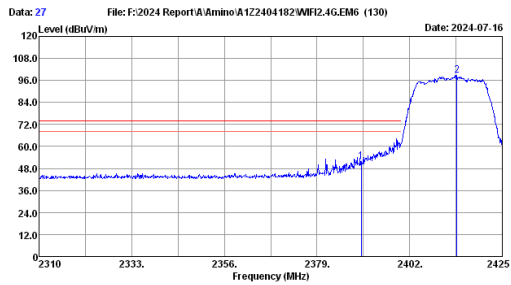
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 26
 Dis. / Ant. : 3m 2023 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 21.5°C/53.1% Engineer : WINTER
 Test Mode : WiFi2.4G 11n20 2412MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.62	5.30	35.77	31.70	36.99	54.00	17.01	Average
2	2412.70	27.65	5.32	87.95	31.69	89.23	-----	-----	Average

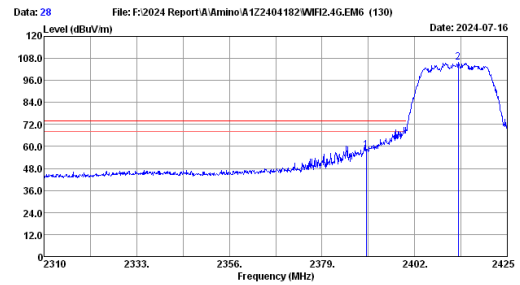
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 27
 Dis. / Ant. : 3m 2023 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 21.5°C/53.1% Engineer : WINTER
 Test Mode : WiFi2.4G 11n20 2412MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.62	5.30	50.62	31.70	51.84	74.00	22.16	Peak
2	2413.73	27.65	5.32	97.47	31.69	98.75	-----	-----	Peak

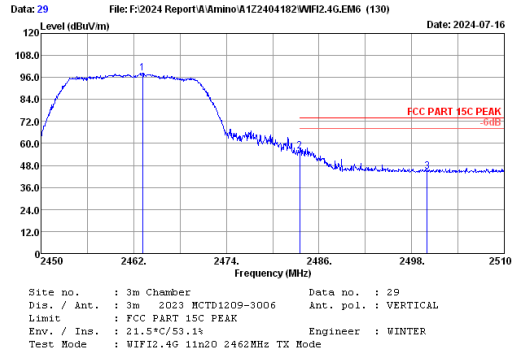
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 28
 Dis. / Ant. : 3m 2023 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 21.5°C/53.1% Engineer : WINTER
 Test Mode : WiFi2.4G 11n20 2412MHz TX Mode

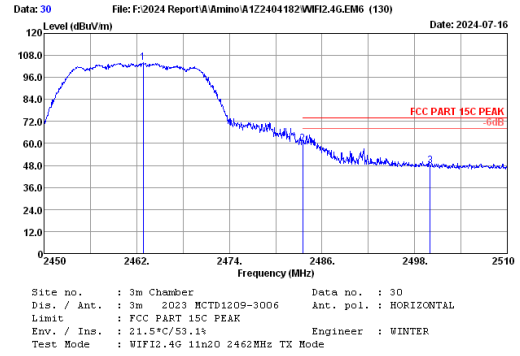
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.62	5.30	56.95	31.70	58.17	74.00	15.83	Peak
2	2412.81	27.65	5.32	104.41	31.69	105.69	-----	-----	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



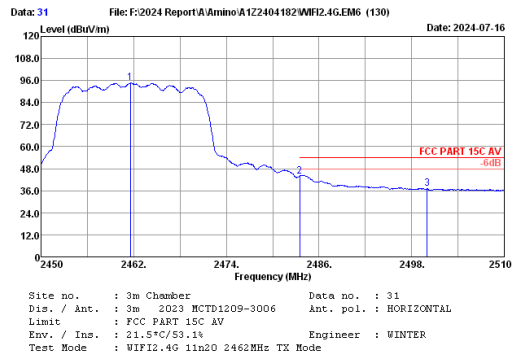
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2463.14	27.80	5.39	96.95	31.67	98.47	74.00	18.00	Peak
2	2463.50	27.80	5.41	54.45	31.66	56.00	74.00	14.41	Peak
3	2500.00	27.80	5.44	43.34	31.65	44.99	74.00	29.07	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



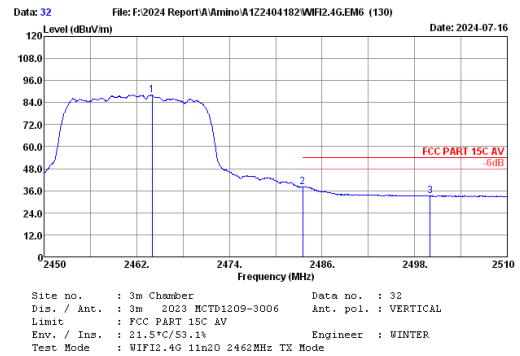
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.84	27.80	5.39	102.60	31.67	104.12	74.00	14.41	Peak
2	2483.50	27.80	5.41	58.04	31.66	59.59	74.00	14.41	Peak
3	2500.00	27.80	5.44	46.17	31.65	47.76	74.00	26.24	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2461.58	27.80	5.39	93.10	31.67	94.62	74.00	10.29	Average
2	2483.50	27.80	5.41	42.16	31.66	43.71	74.00	10.29	Average
3	2500.00	27.80	5.44	35.56	31.65	37.15	74.00	16.85	Average

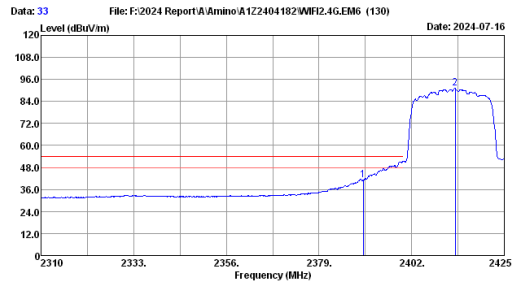
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2463.98	27.80	5.39	86.60	31.67	88.12	74.00	15.92	Average
2	2483.50	27.80	5.41	36.53	31.66	38.08	74.00	15.92	Average
3	2500.00	27.80	5.44	31.50	31.65	33.09	74.00	20.91	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

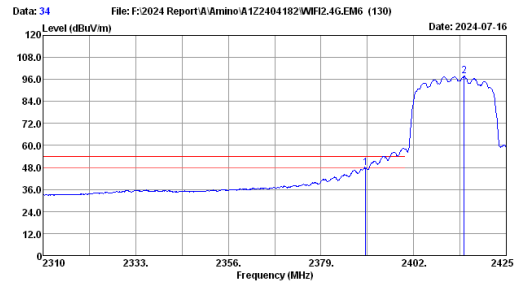
MIMO Mode 11ax 20



Site no. : 3m Chamber Data no. : 33
 Dis. / Ant. : 3m 2023 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 21.5°C/53.1% Engineer : WINTER
 Test Mode : WiFi2.4G 11ax20 2412MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.62	5.30	40.17	31.70	41.39	54.00	12.61	Average
2	2412.01	27.65	5.32	90.04	31.69	91.32	-----	-----	Average

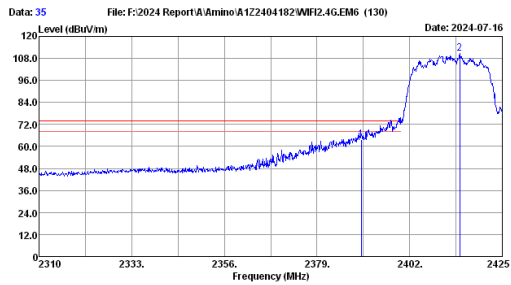
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 34
 Dis. / Ant. : 3m 2023 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV
 Env. / Ins. : 21.5°C/53.1% Engineer : WINTER
 Test Mode : WiFi2.4G 11ax20 2412MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.04	27.62	5.30	46.77	31.70	47.99	54.00	6.01	Average
2	2414.54	27.66	5.32	96.44	31.69	97.73	-----	-----	Average

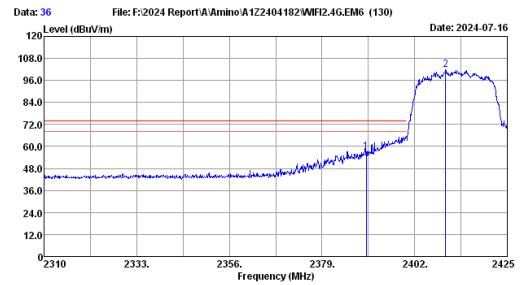
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 35
 Dis. / Ant. : 3m 2023 MCTD1209-3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 21.5°C/53.1% Engineer : WINTER
 Test Mode : WiFi2.4G 11ax20 2412MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.62	5.30	62.70	31.70	63.92	74.00	10.08	Peak
2	2414.42	27.66	5.32	109.45	31.69	110.74	-----	-----	Peak

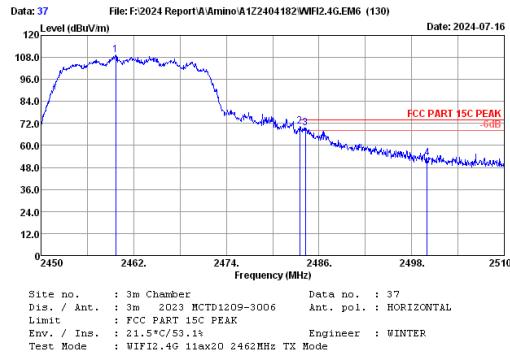
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



Site no. : 3m Chamber Data no. : 36
 Dis. / Ant. : 3m 2023 MCTD1209-3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK
 Env. / Ins. : 21.5°C/53.1% Engineer : WINTER
 Test Mode : WiFi2.4G 11ax20 2412MHz TX Mode

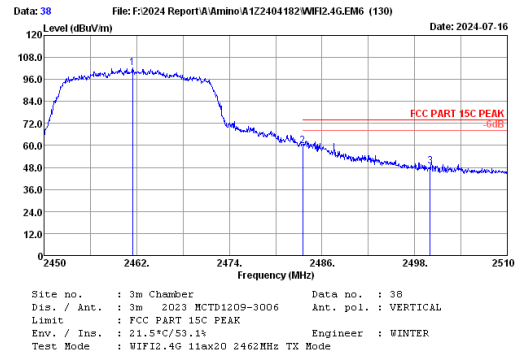
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.00	27.62	5.30	55.73	31.70	56.95	74.00	17.05	Peak
2	2409.71	27.64	5.32	100.66	31.70	101.92	-----	-----	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



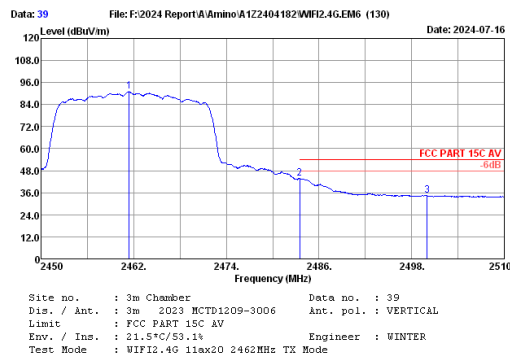
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2459.66	27.80	5.39	107.63	31.67	109.15	-----	-----	Peak
2	2483.50	27.80	5.41	68.91	31.66	70.46	74.00	3.54	Peak
3	2484.26	27.80	5.41	67.86	31.66	69.41	74.00	4.59	Peak
4	2500.00	27.80	5.44	51.55	31.65	53.14	74.00	20.86	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



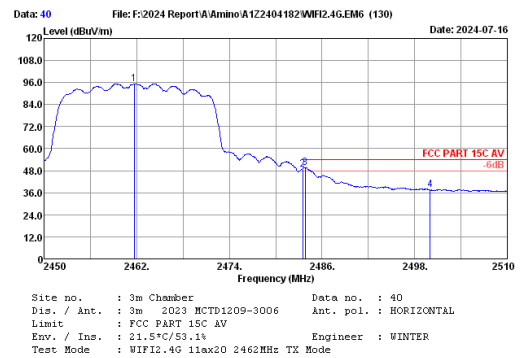
No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2461.46	27.80	5.39	100.79	31.67	102.31	-----	-----	Peak
2	2483.50	27.80	5.41	58.13	31.66	59.68	74.00	14.32	Peak
3	2500.00	27.80	5.44	46.93	31.65	48.52	74.00	25.48	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2461.40	27.80	5.39	89.52	31.67	91.04	-----	-----	Average
2	2483.50	27.80	5.41	42.36	31.66	43.91	54.00	10.09	Average
3	2500.00	27.80	5.44	32.82	31.65	34.41	54.00	19.59	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.



No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Amp factor (dB)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2461.70	27.80	5.39	93.66	31.67	95.18	-----	-----	Average
2	2483.50	27.80	5.41	47.36	31.66	48.91	54.00	5.09	Average
3	2483.84	27.80	5.41	48.11	31.66	49.66	54.00	4.34	Average
4	2500.00	27.80	5.44	35.84	31.65	37.43	54.00	16.57	Average

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp factor.
 2. The emission levels that are 20dB below the official limit are not reported.

7. 6dB & 99% Bandwidth Test

7.1.Limit

For direct sequence systems, the minimum 6dB bandwidth shall be at least 500kHz

7.2.Test Procedure

Use the test method described in ANSI C63.10 Section 11.8:

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., $RBW = 100$ kHz, $VBW \geq 3 \times RBW$, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.

Use the test method described in ANSI C63.10 Section 6.9.2:

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

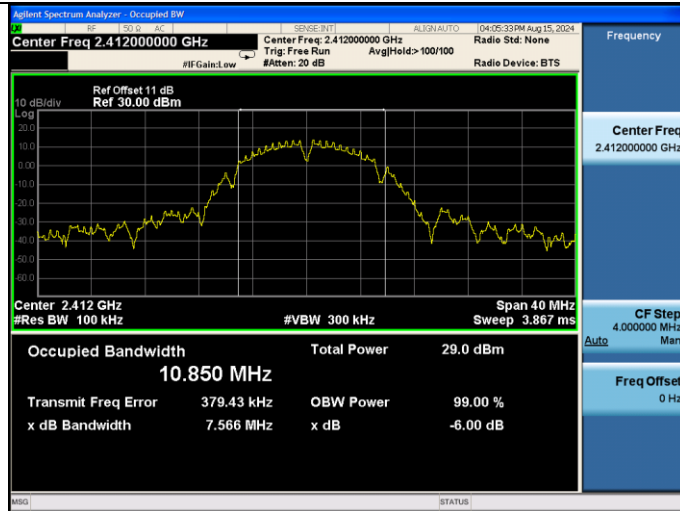
- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.5.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

7.3.Test Results

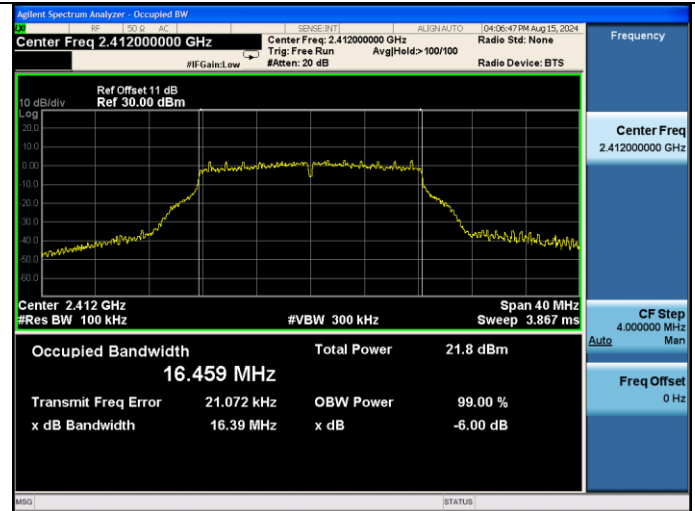
EUT: STB				
M/N: H200W				
Test date: 2024-08-15~09-08		Pressure: 102.6±1.0 kpa		Humidity: 53.5±3.0%
Tested by: Epoch		Test site: RF site		Temperature: 22.4±0.6℃
Test Mode	Frequency (MHz)	-6dB Bandwidth(MHz)		Limit (KHz)
		ANT0	ANT1	
11b	2412	7.566	8.041	≥ 500
	2437	7.109	7.573	
	2462	7.124	7.591	
11g	2412	16.390	16.380	≥ 500
	2437	16.380	16.380	
	2462	16.370	16.380	
11n HT20	2412	17.590	17.650	≥ 500
	2437	17.610	17.640	
	2462	17.610	17.640	
11ax HE20	2412	18.800	18.940	≥ 500
	2437	18.920	18.960	
	2462	18.640	18.890	
Conclusion:Pass				

ANT0:

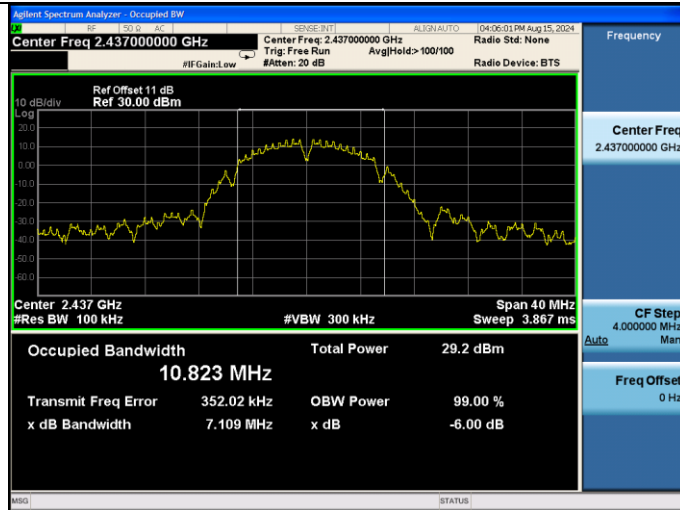
Test Mode: IEEE 802.11b
Test CH1: 2412MHz



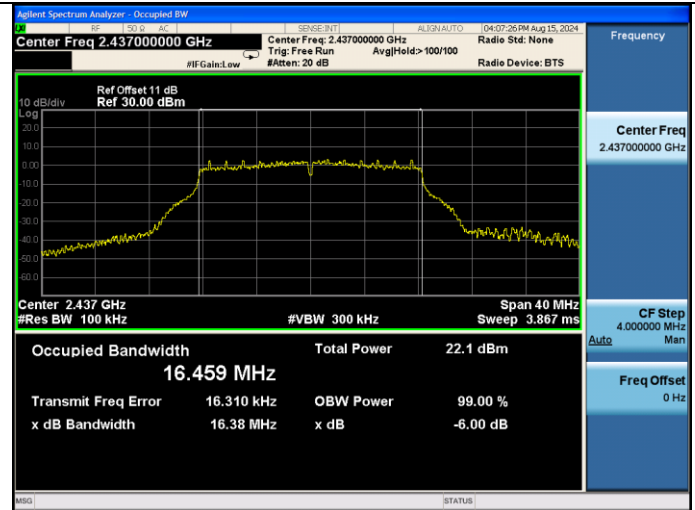
Test Mode: IEEE 802.11g
Test CH1: 2412MHz



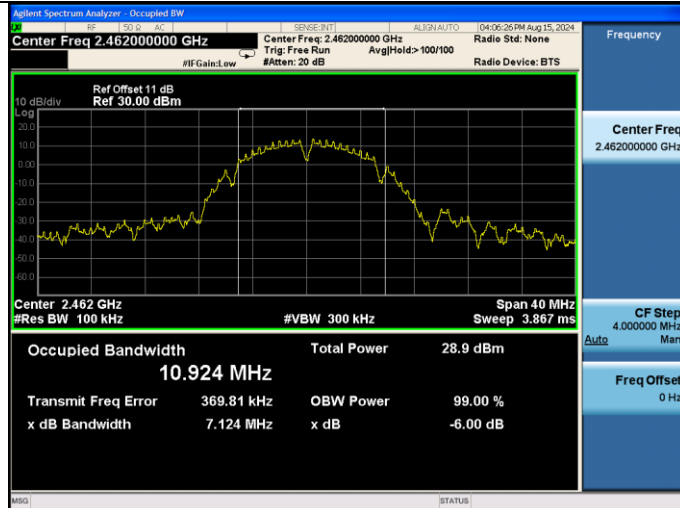
Test CH6: 2437MHz



Test CH6: 2437MHz



Test CH11: 2462MHz



Test CH11: 2462MHz

