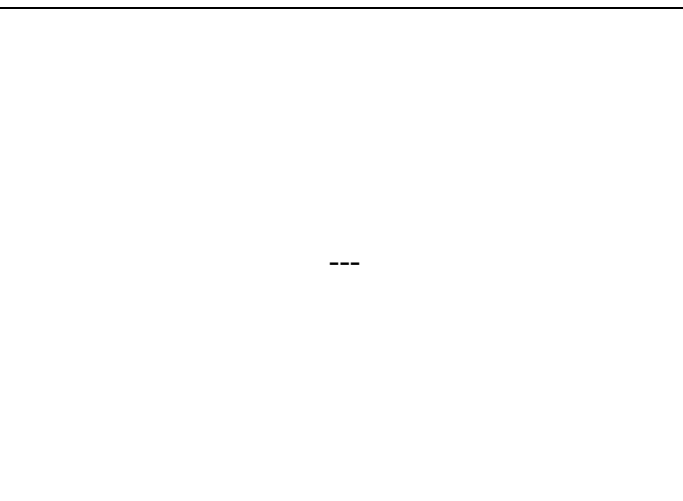
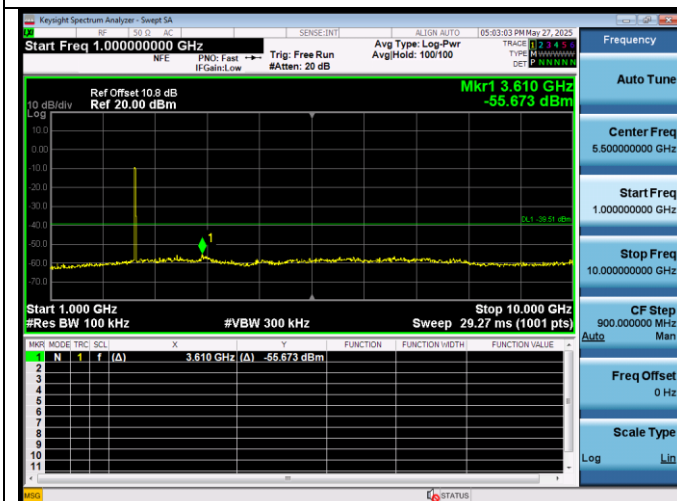
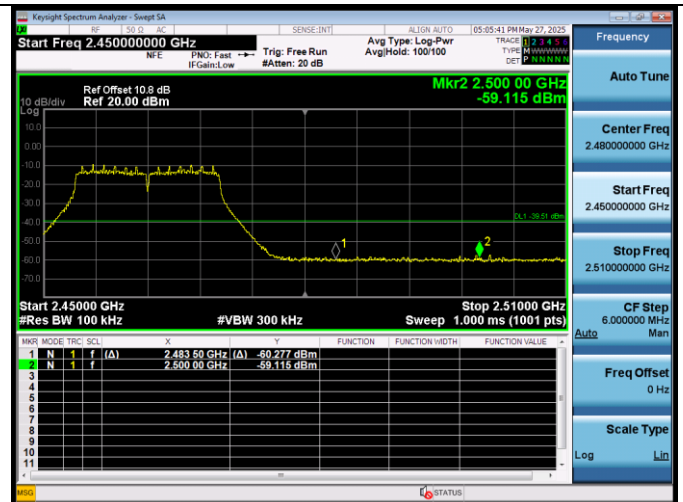
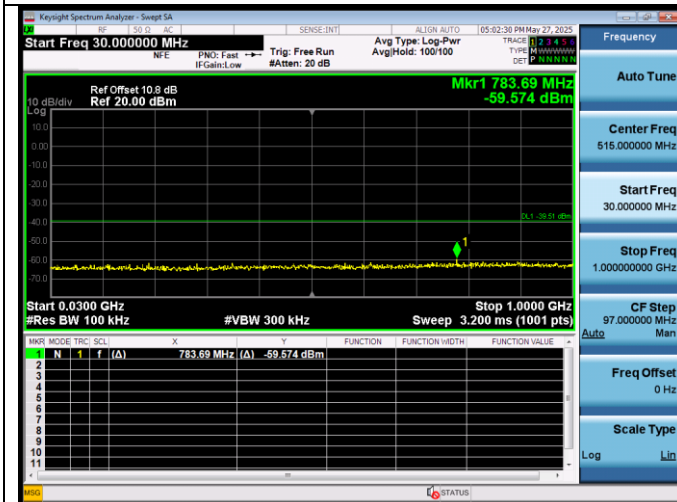
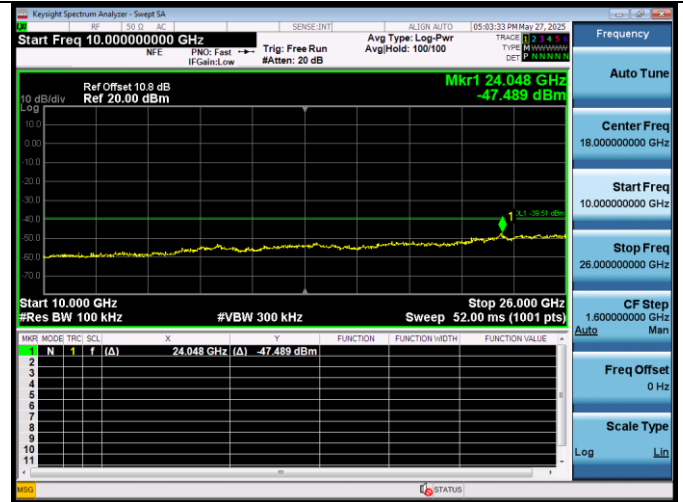
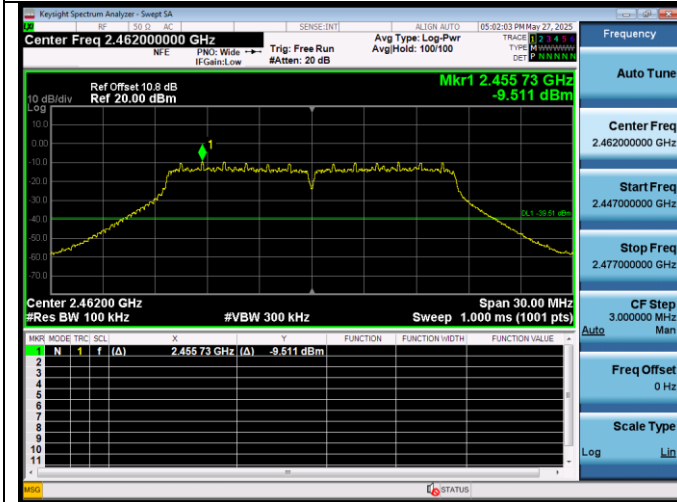
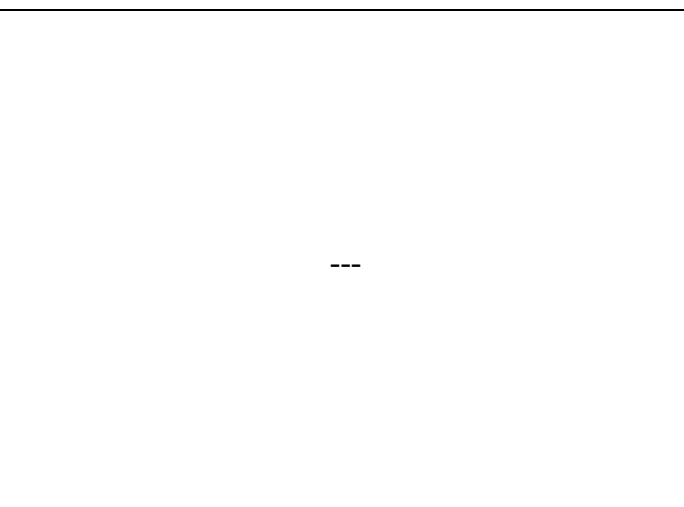
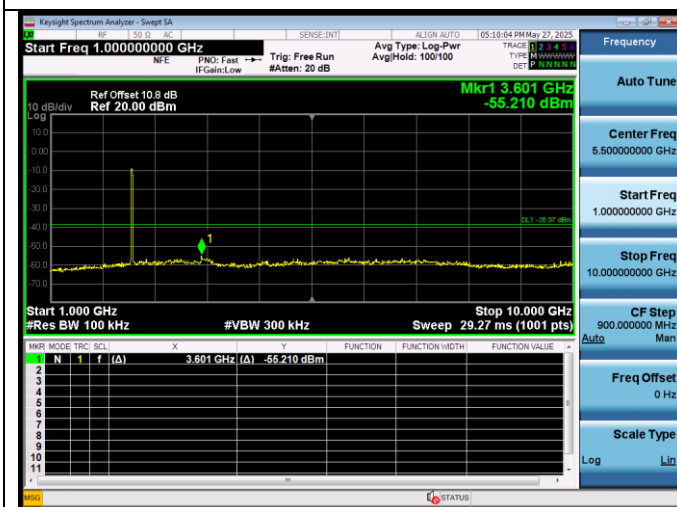
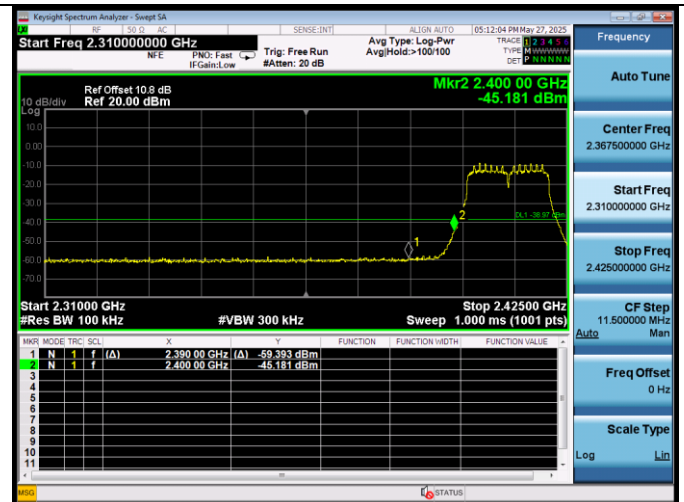
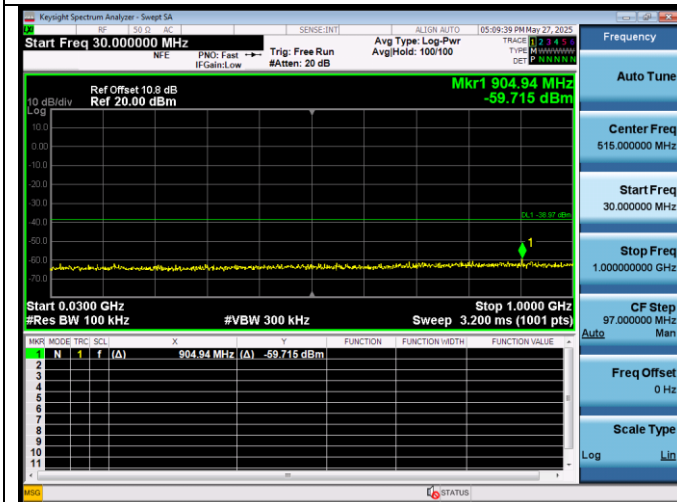
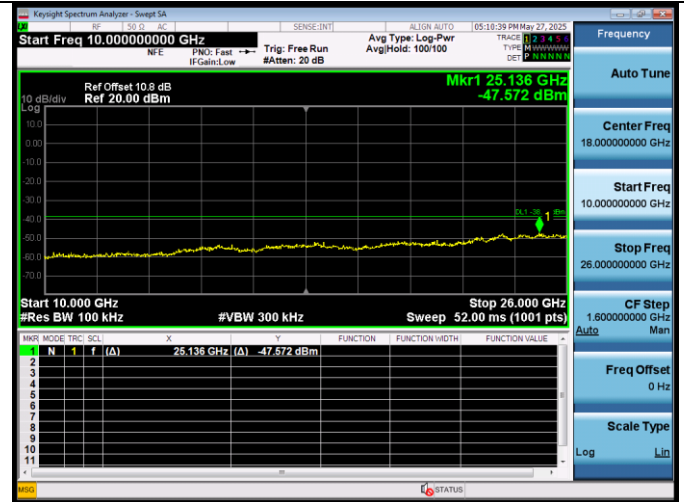
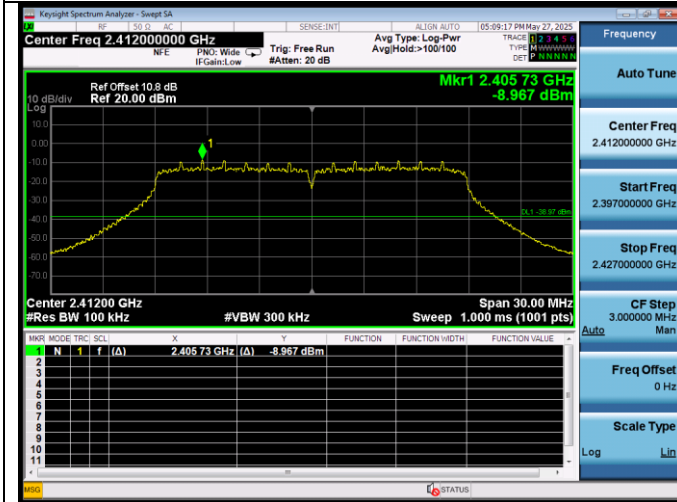


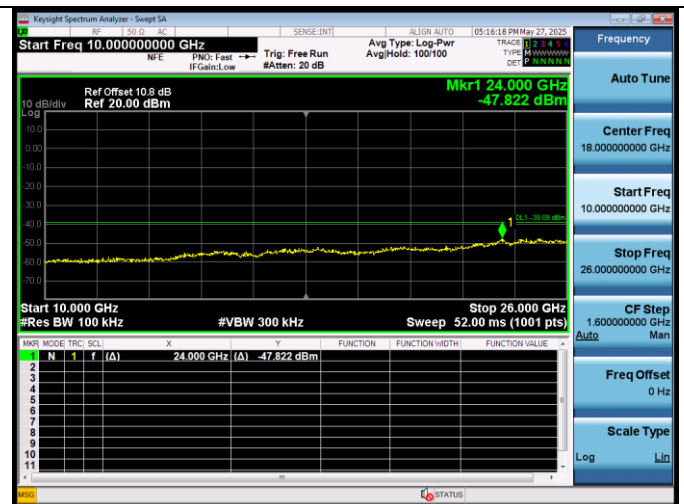
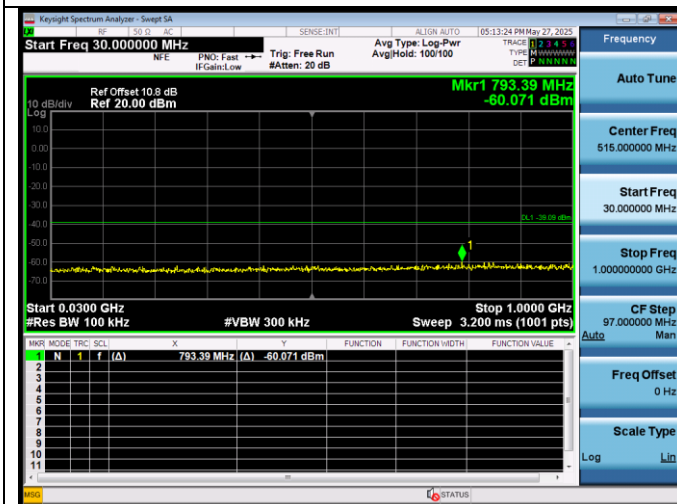
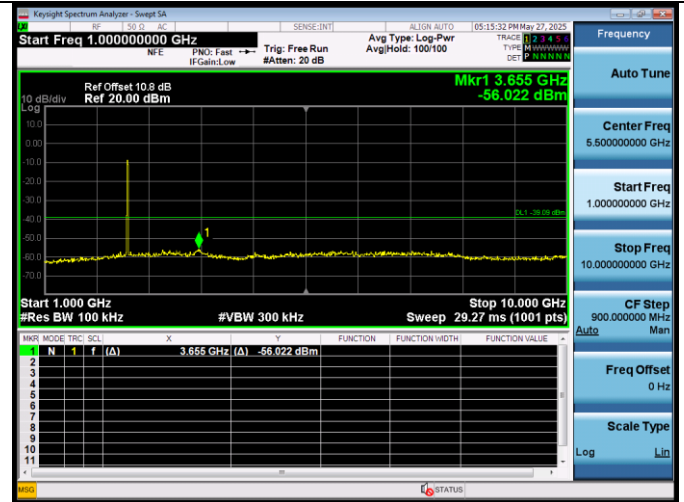
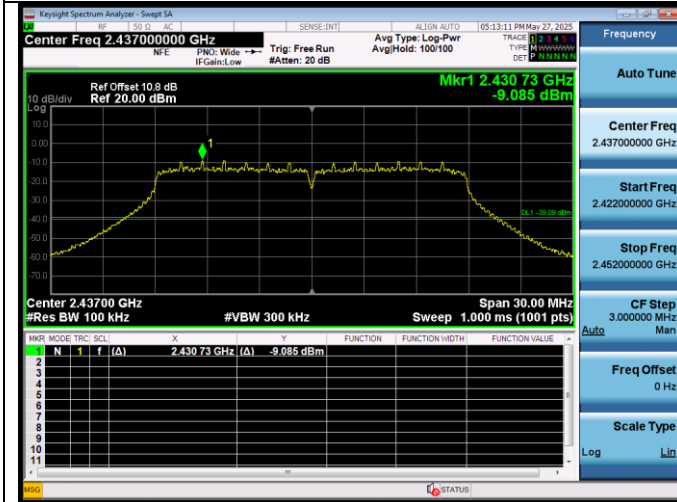
Test CH11: 2462MHz



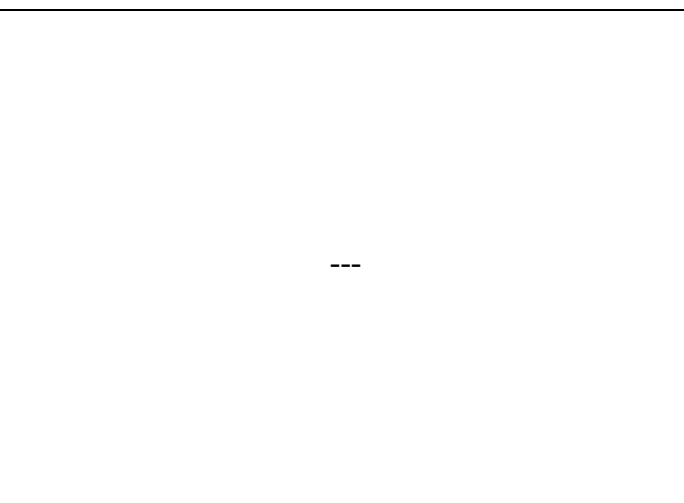
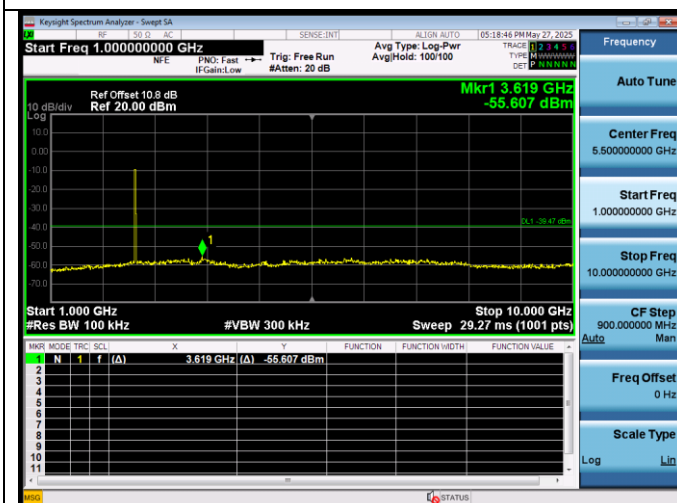
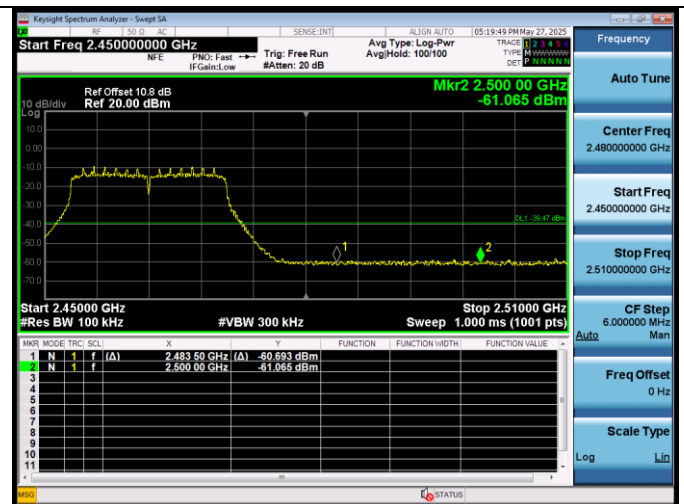
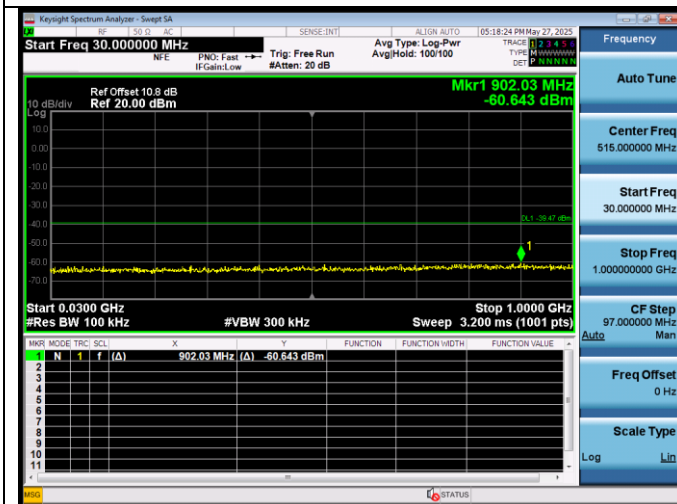
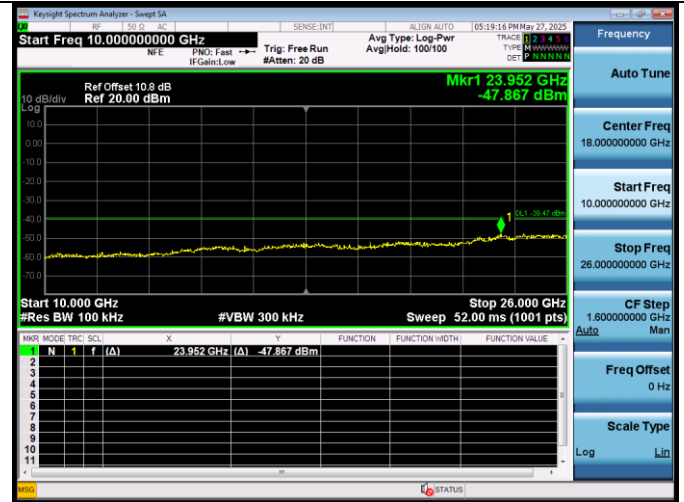
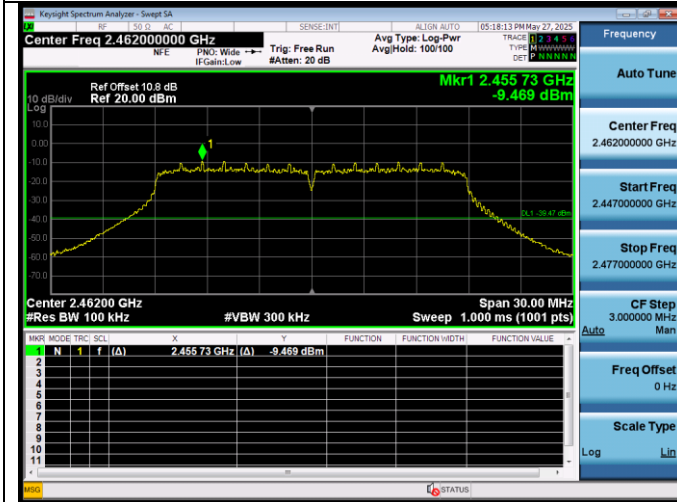
Test Mode: IEEE 802.11n HT20
Test CH1: 2412MHz



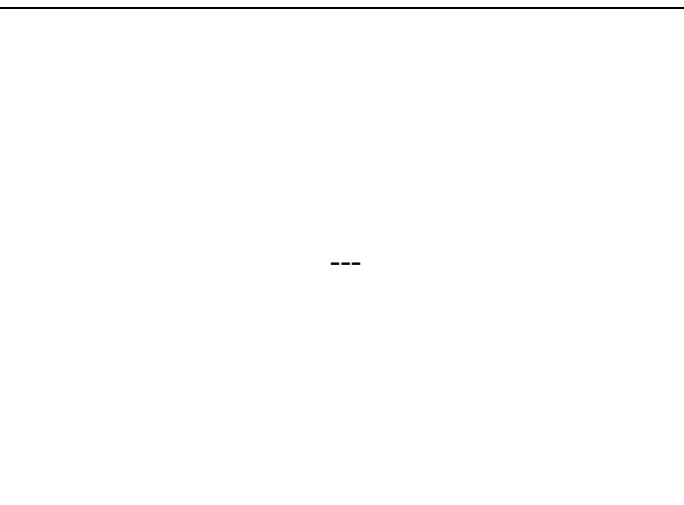
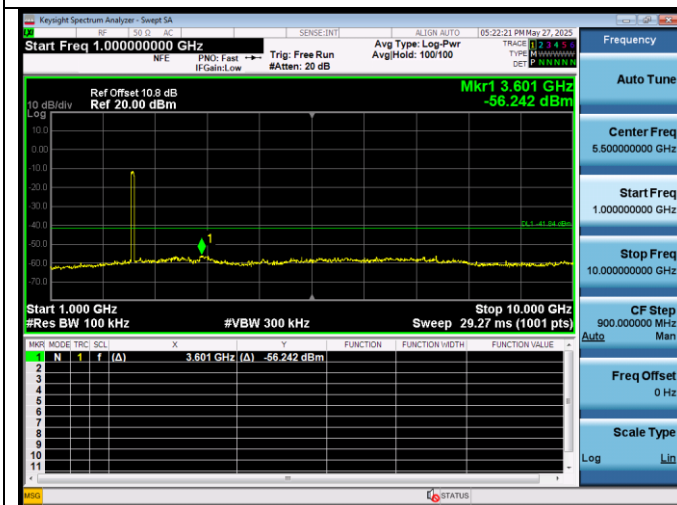
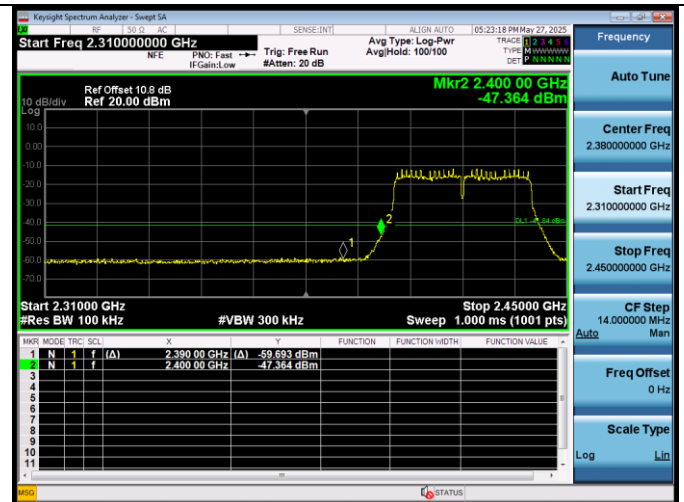
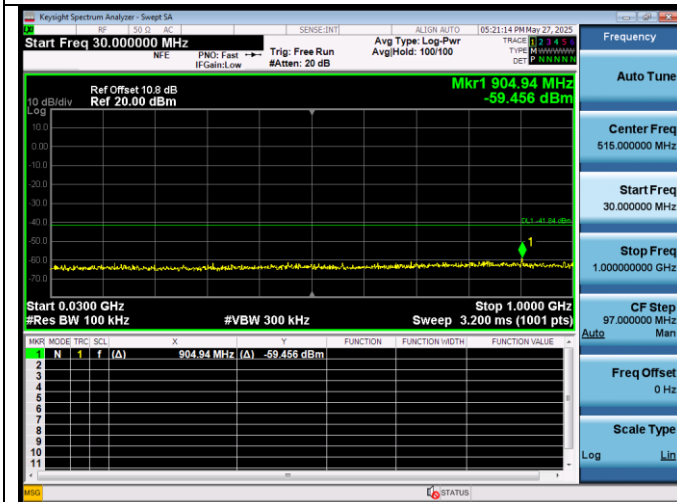
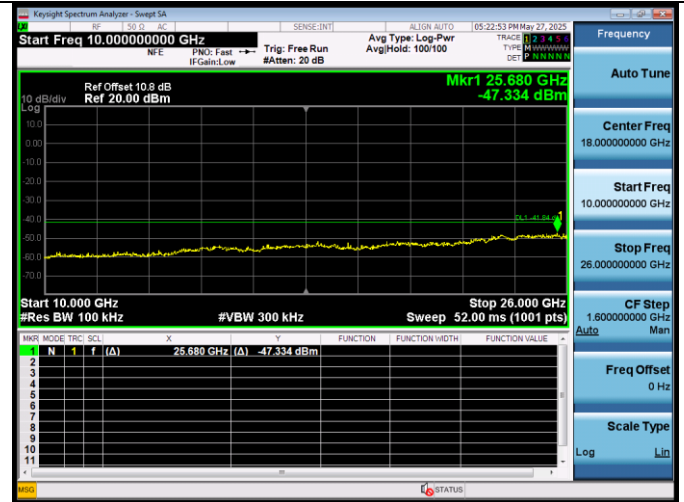
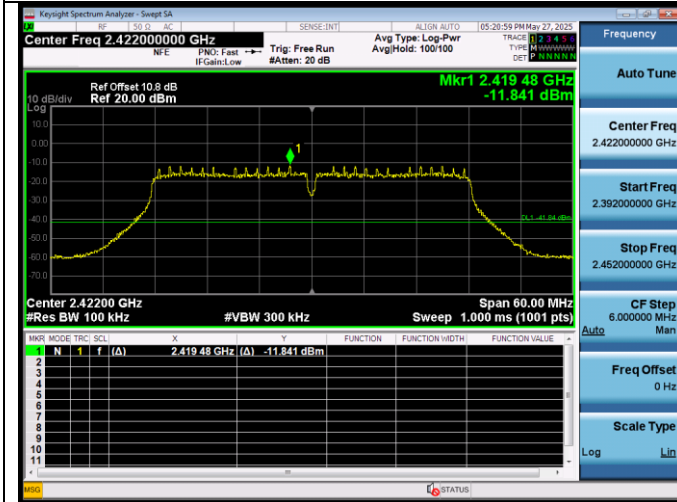
Test CH6: 2437MHz



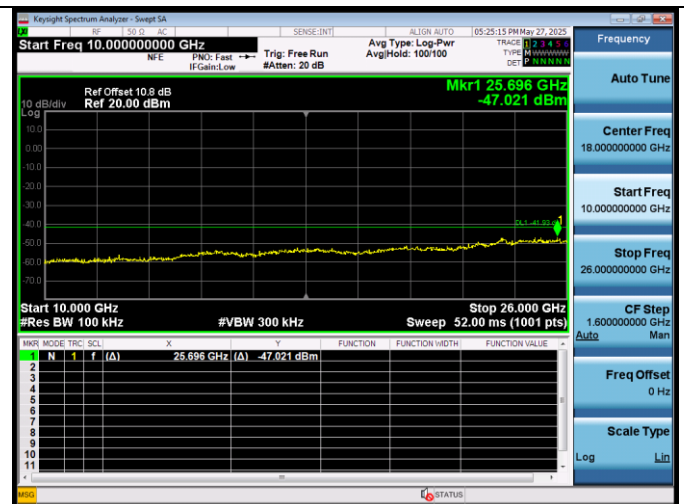
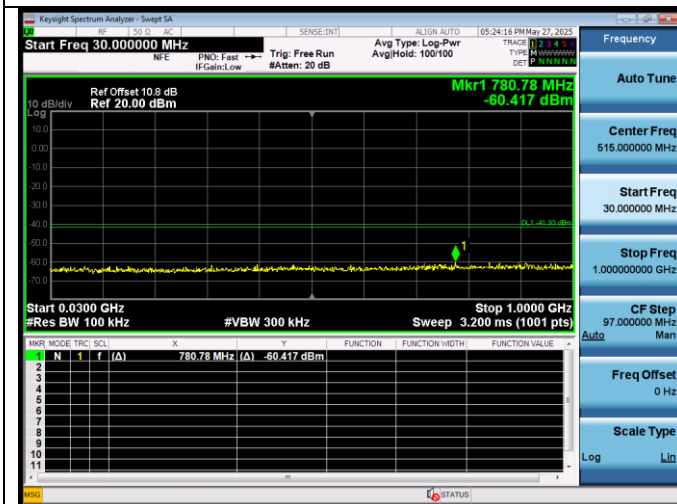
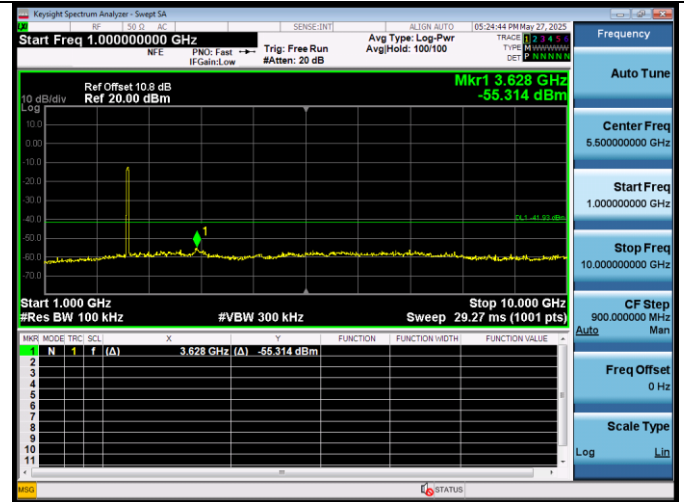
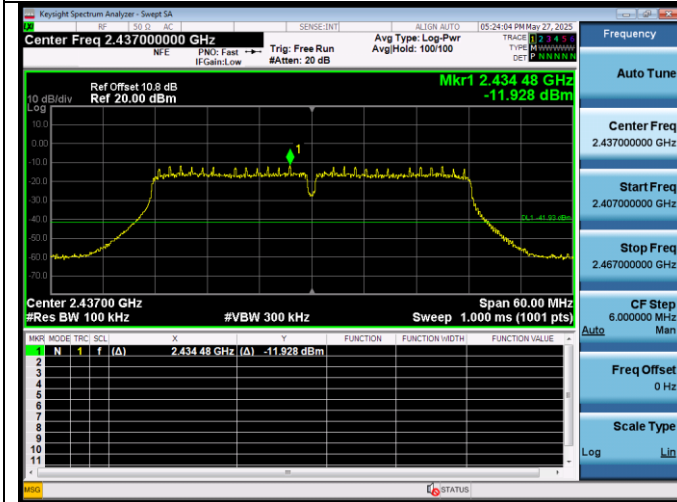
Test CH11: 2462MHz



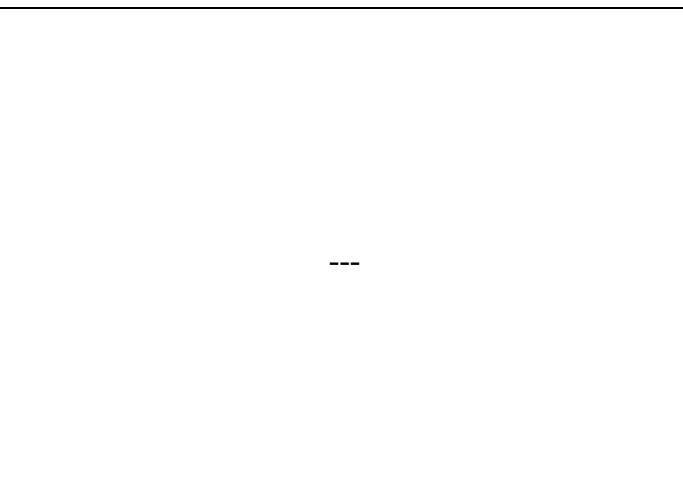
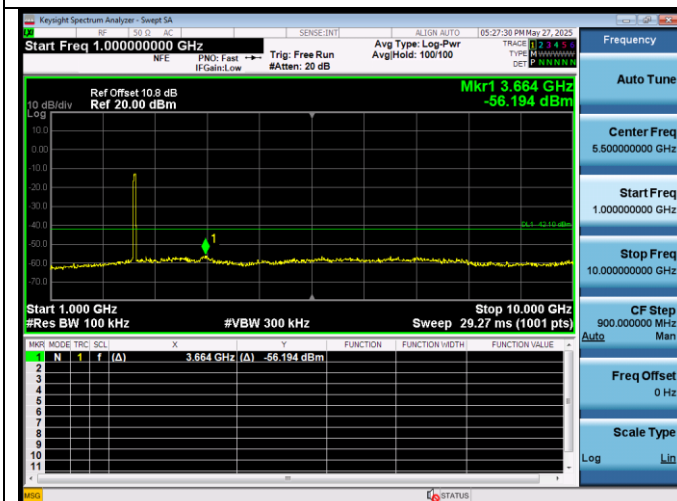
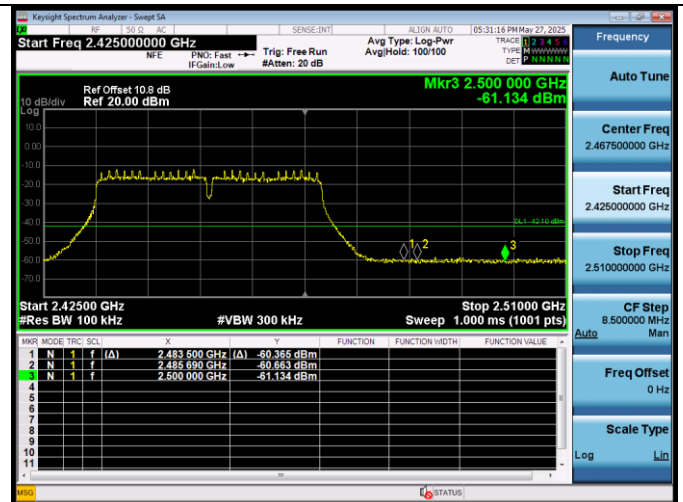
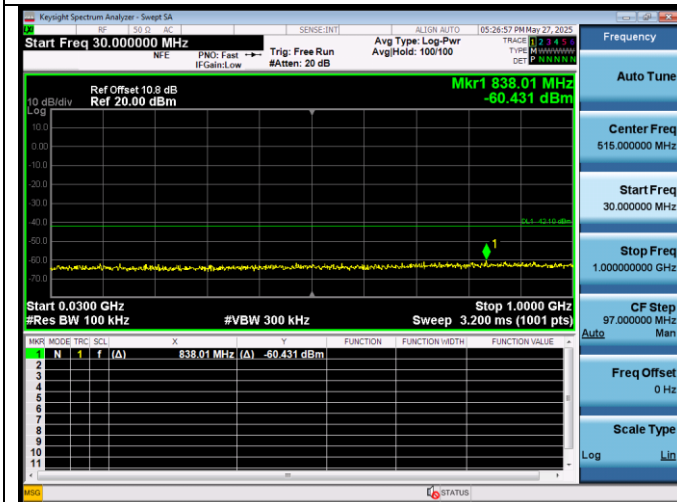
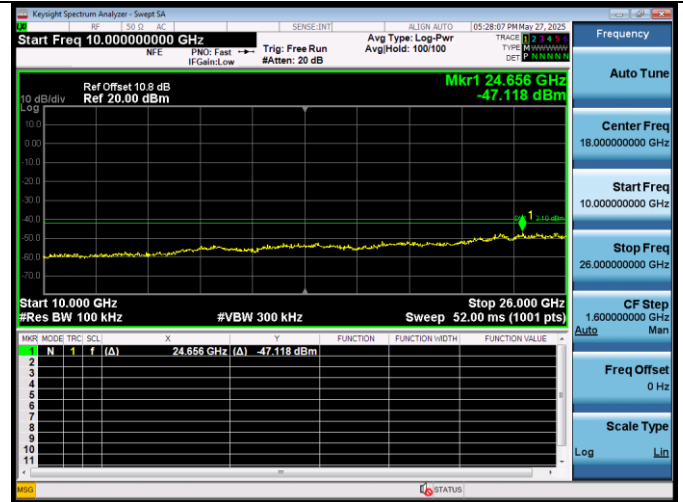
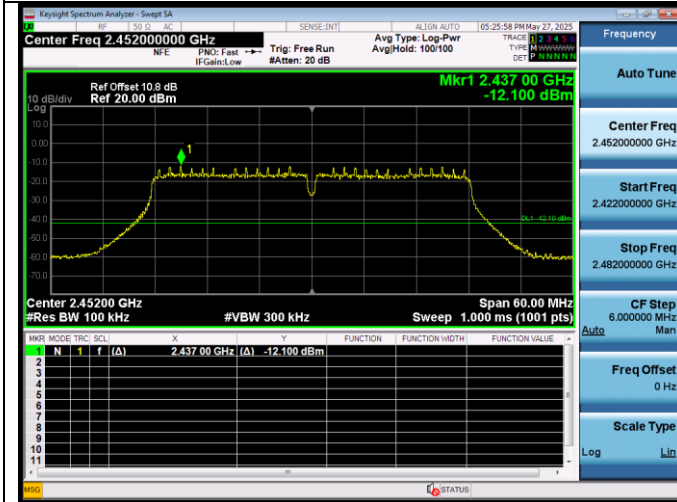
Test Mode: IEEE 802.11n HT40
Test CH1: 2422MHz



Test CH6: 2437MHz



Test CH11: 2452MHz



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.

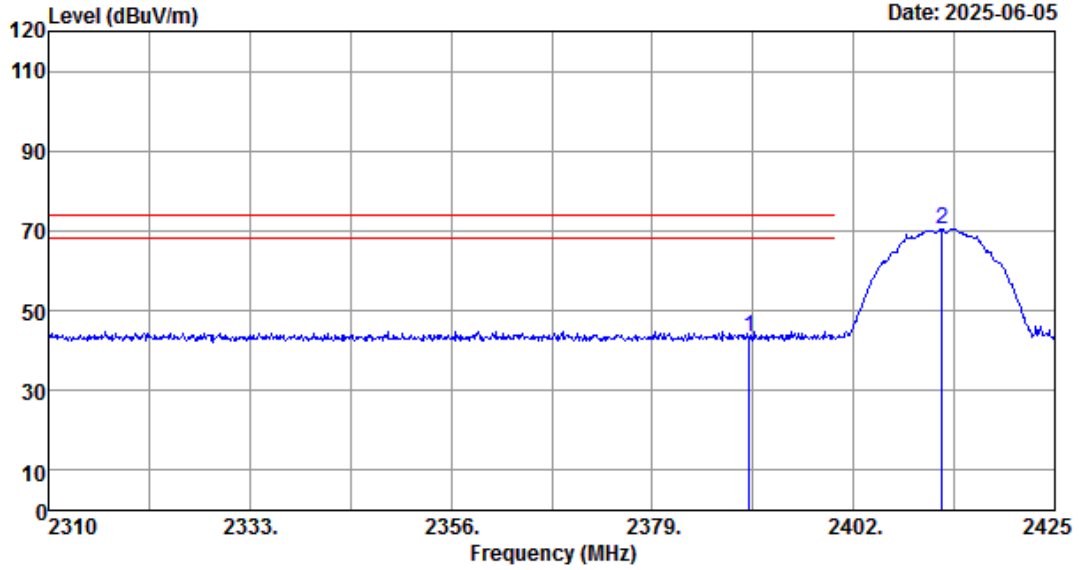
6.2.Test Procedure

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.)

Data: 1 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)

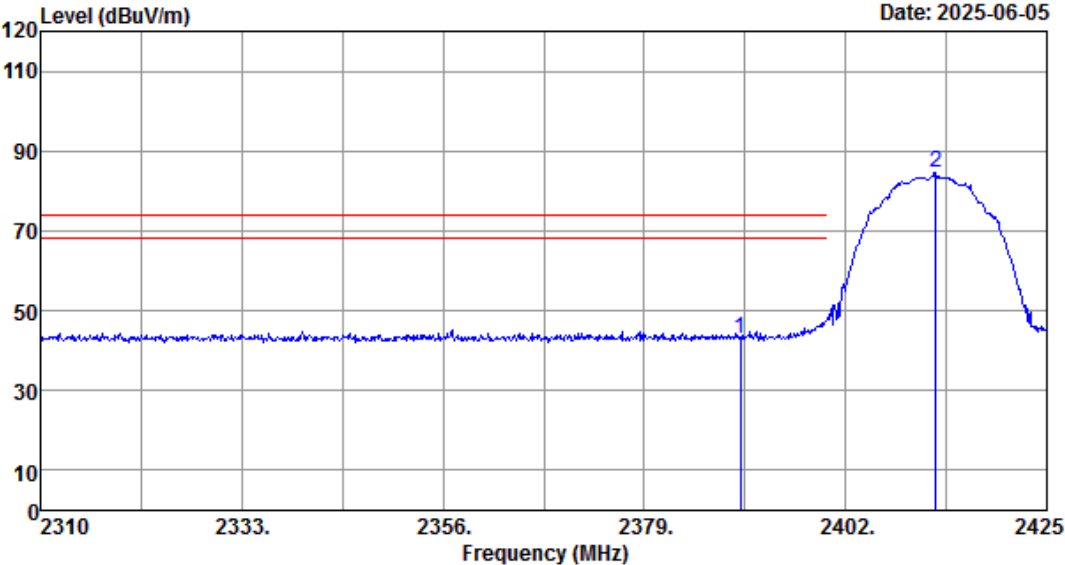


Site no. : RF Chamber Data no. : 1
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11b 2412MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.040	27.56	4.58	49.65	60.96	43.45	74.00	30.55	Peak
2	2412.120	27.60	4.60	49.63	88.00	70.57	-----	-----	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.

Data: 2 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)

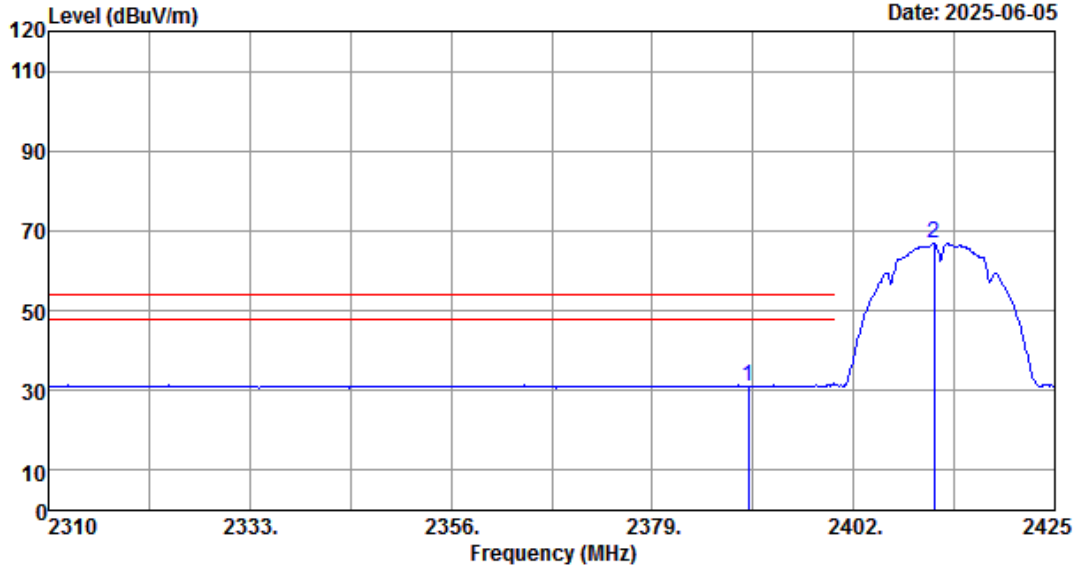


Site no. : RF Chamber Data no. : 2
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11b 2412MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	27.56	4.58	49.65	60.40	42.89	74.00	31.11	Peak
2	2412.350	27.60	4.60	49.63	101.87	84.44	-----	-----	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.

Data: 4 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)

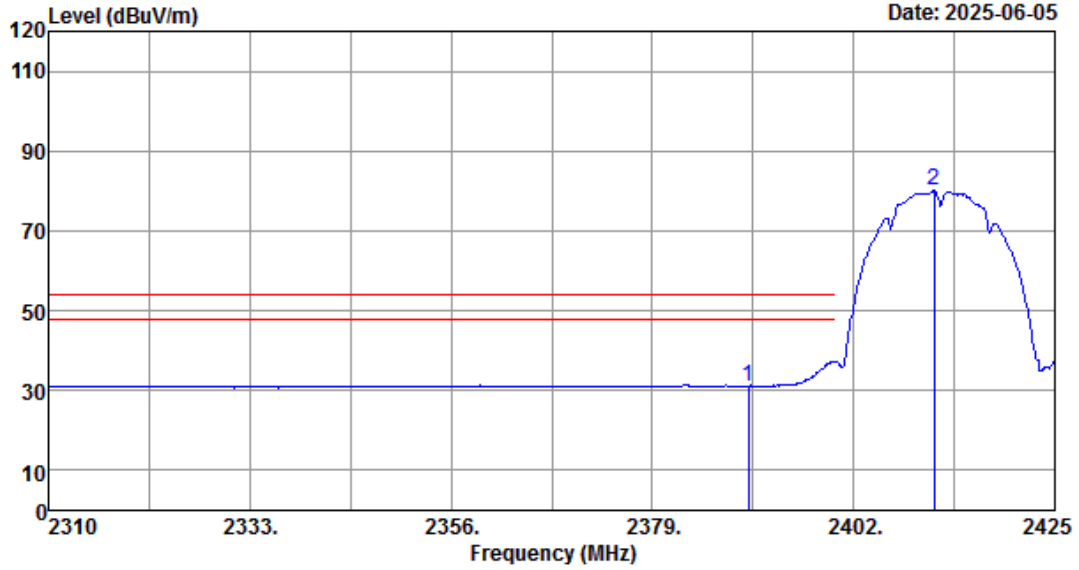


Site no. : RF Chamber Data no. : 4
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11b 2412MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	27.56	4.58	49.65	48.37	30.86	54.00	23.14	Average
2	2411.200	27.60	4.60	49.63	84.31	66.88	-----	-----	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.

Data: 3 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)

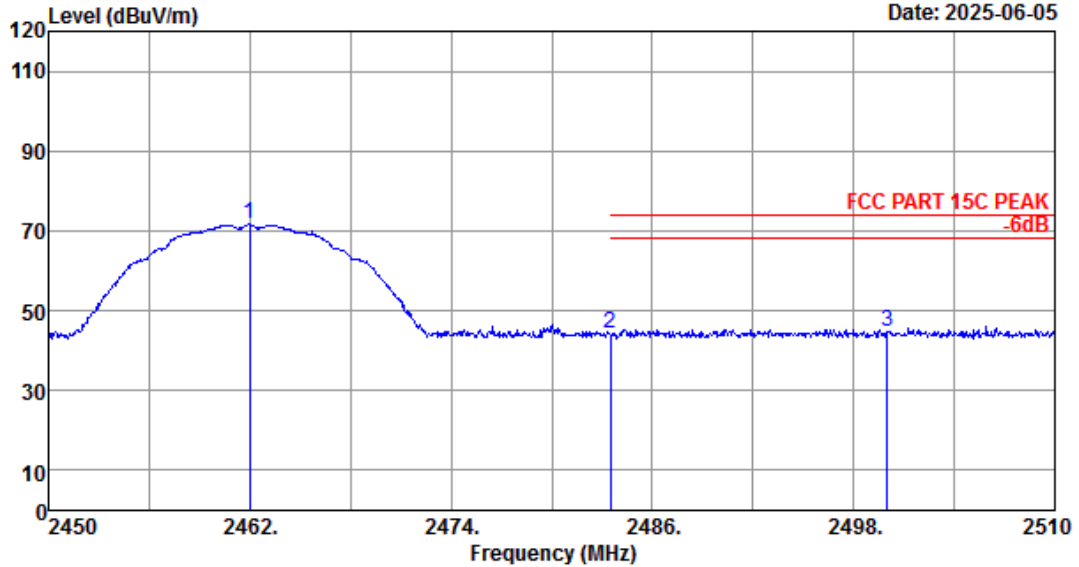


Site no. : RF Chamber Data no. : 3
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11b 2412MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	27.56	4.58	49.65	48.71	31.20	54.00	22.80	Average
2	2411.200	27.60	4.60	49.63	97.54	80.11	-----	-----	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.

Data: 5 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)

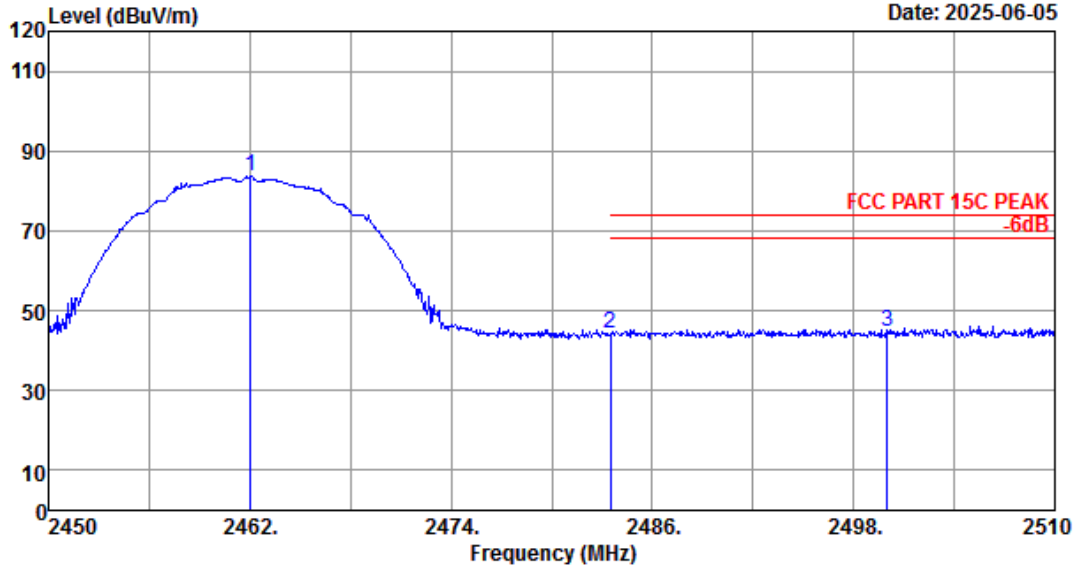


Site no. : RF Chamber Data no. : 5
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11b 2462MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.000	27.70	4.66	49.58	89.03	71.81	-----	-----	Peak
2	2483.500	27.87	4.68	49.56	61.07	44.06	74.00	29.94	Peak
3	2500.000	28.00	4.70	49.55	61.47	44.62	74.00	29.38	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.

Data: 6 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)

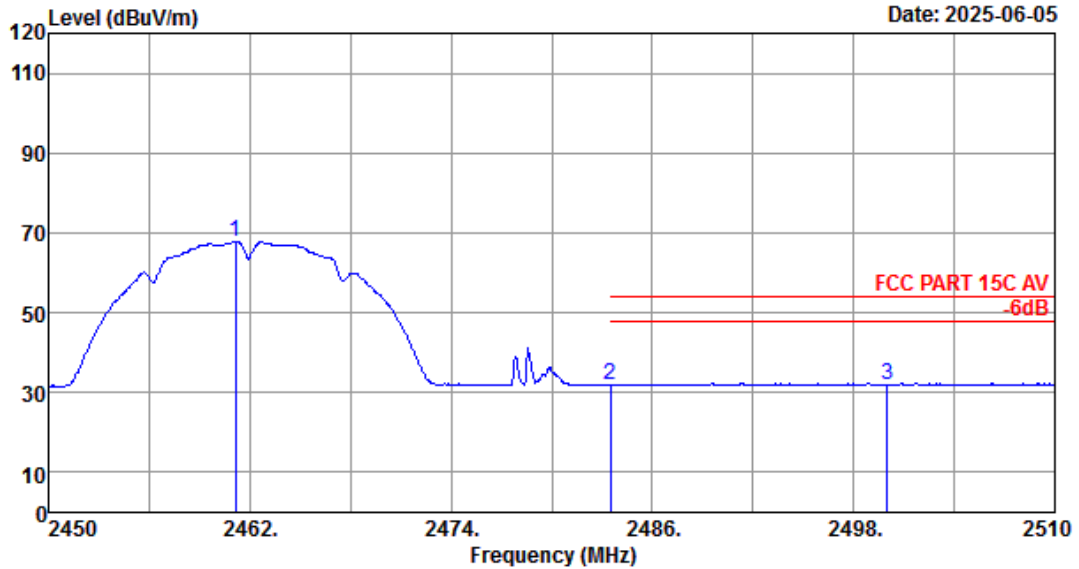


Site no. : RF Chamber Data no. : 6
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11b 2462MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2462.060	27.70	4.66	49.58	101.08	83.86	-----	-----	Peak
2	2483.500	27.87	4.68	49.56	61.40	44.39	74.00	29.61	Peak
3	2500.000	28.00	4.70	49.55	61.45	44.60	74.00	29.40	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.

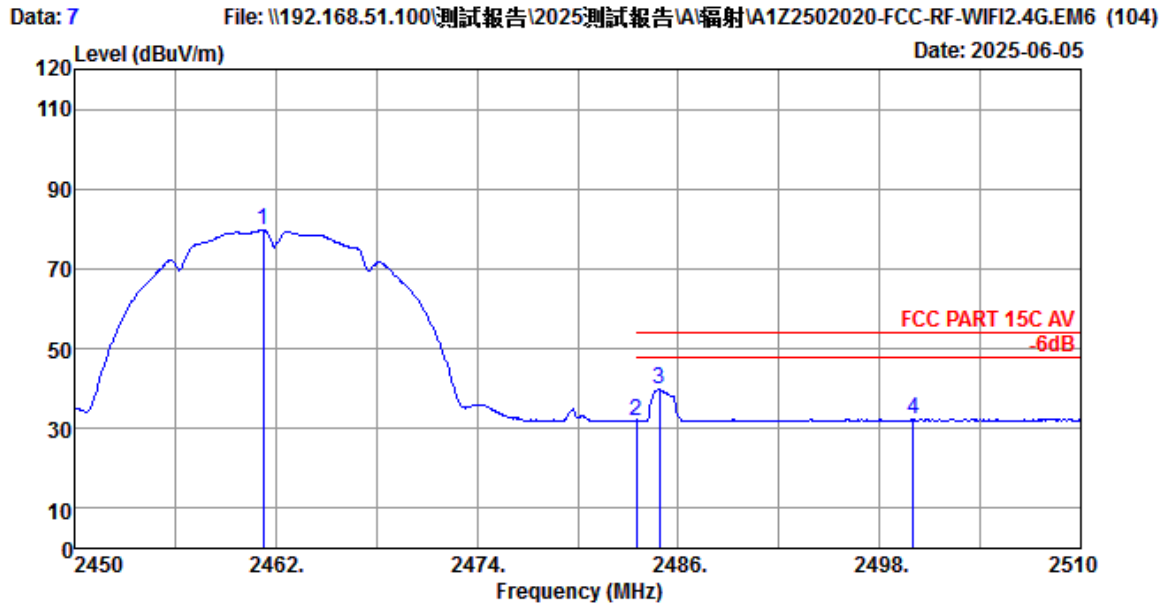
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Site no. : RF Chamber Data no. : 8
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11b 2462MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2461.160	27.69	4.66	49.58	85.09	67.86	-----	-----	Average
2	2483.500	27.87	4.68	49.56	48.87	31.86	54.00	22.14	Average
3	2500.000	28.00	4.70	49.55	48.85	32.00	54.00	22.00	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.



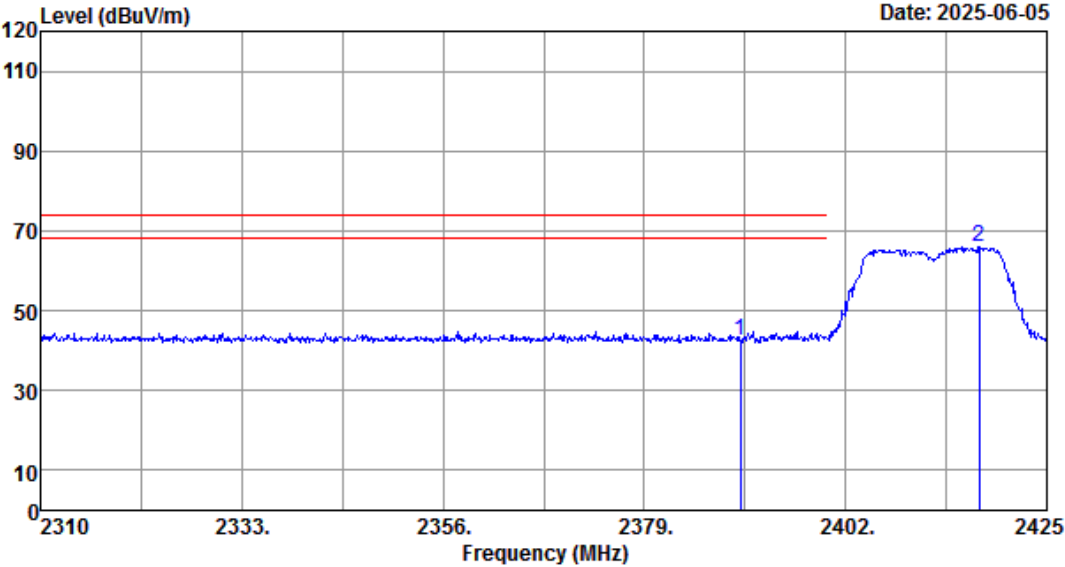
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 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11b 2462MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2461.280	27.69	4.66	49.58	96.94	79.71	-----	-----	Average
2	2483.500	27.87	4.68	49.56	49.08	32.07	54.00	21.93	Average
3	2484.860	27.88	4.68	49.56	56.80	39.80	54.00	14.20	Average
4	2500.000	28.00	4.70	49.55	48.99	32.14	54.00	21.86	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.

FCC ID: 2BCTP-CSPLUS

Data: 9 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)

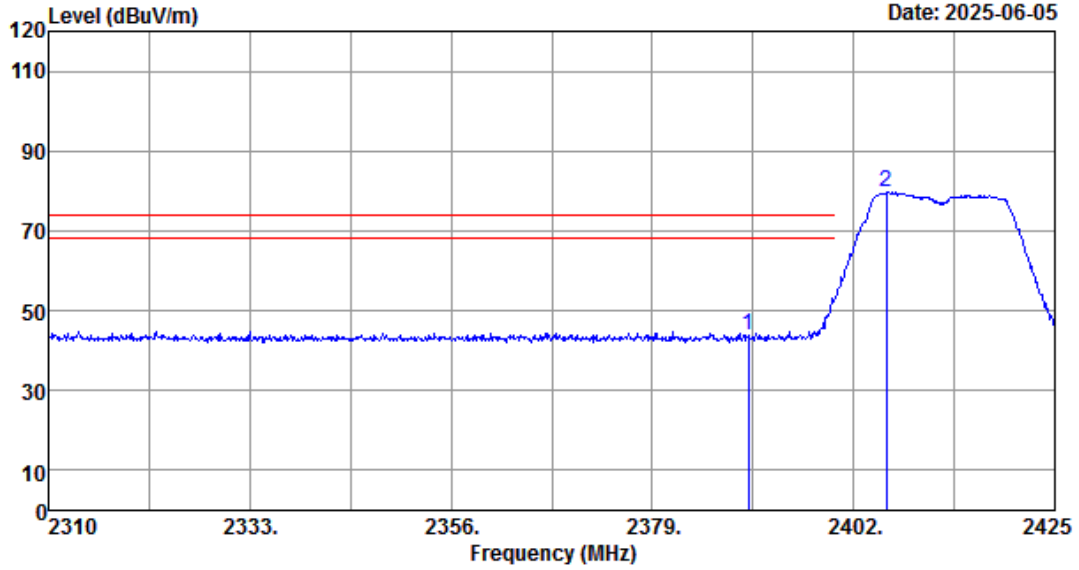


Site no. : RF Chamber Data no. : 9
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11g 2412MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	27.56	4.58	49.65	60.17	42.66	74.00	31.34	Peak
2	2417.295	27.60	4.60	49.62	83.48	66.06	-----	-----	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.

Data: 10 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)

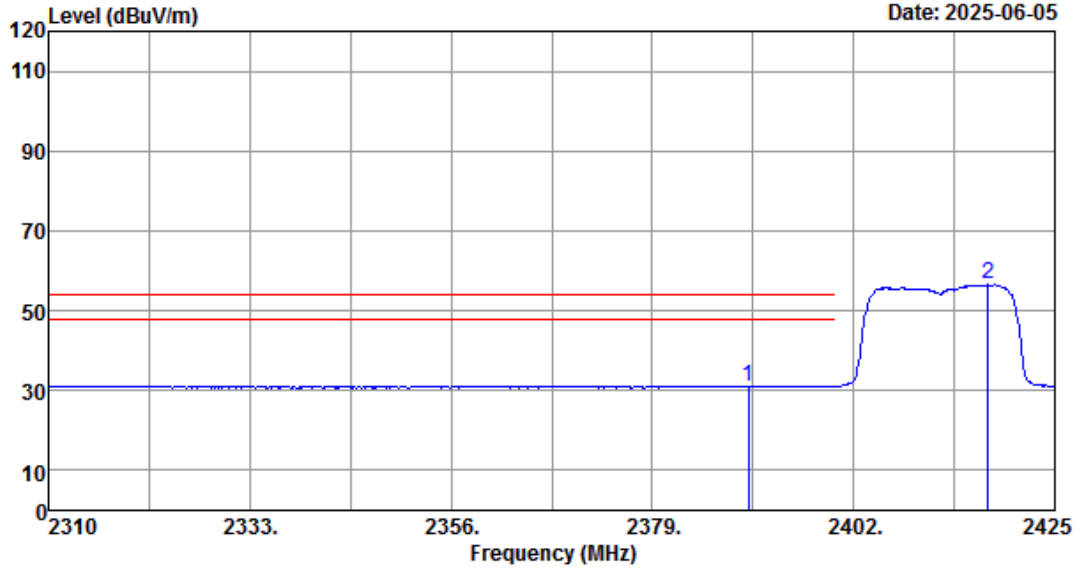


Site no. : RF Chamber Data no. : 10
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11g 2412MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	27.56	4.58	49.65	61.41	43.90	74.00	30.10	Peak
2	2405.795	27.60	4.60	49.63	97.14	79.71	-----	-----	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.

Data: 12 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)

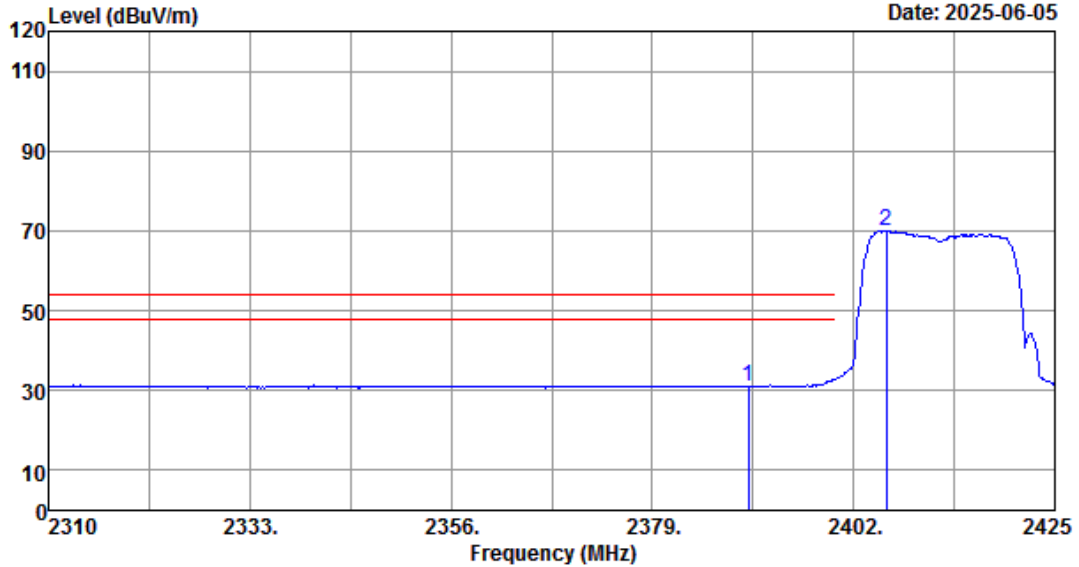


Site no. : RF Chamber Data no. : 12
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11g 2412MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	27.56	4.58	49.65	48.30	30.79	54.00	23.21	Peak
2	2417.410	27.60	4.60	49.62	73.94	56.52	-----	-----	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.

Data: 11 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)

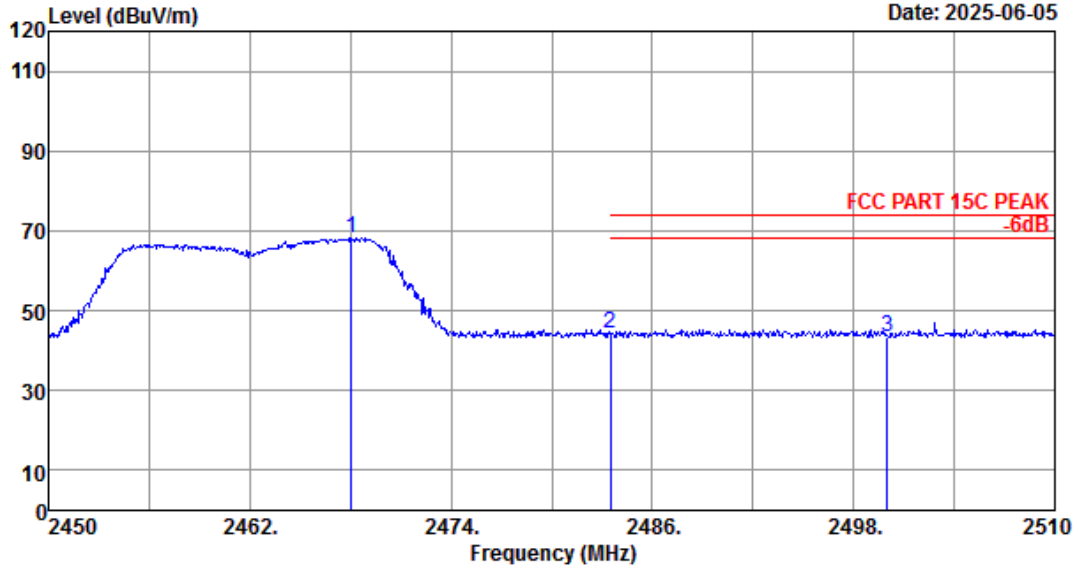


Site no. : RF Chamber Data no. : 11
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11g 2412MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	27.56	4.58	49.65	48.56	31.05	54.00	22.95	Average
2	2405.795	27.60	4.60	49.63	87.49	70.06	-----	-----	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.

Data: 14 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)

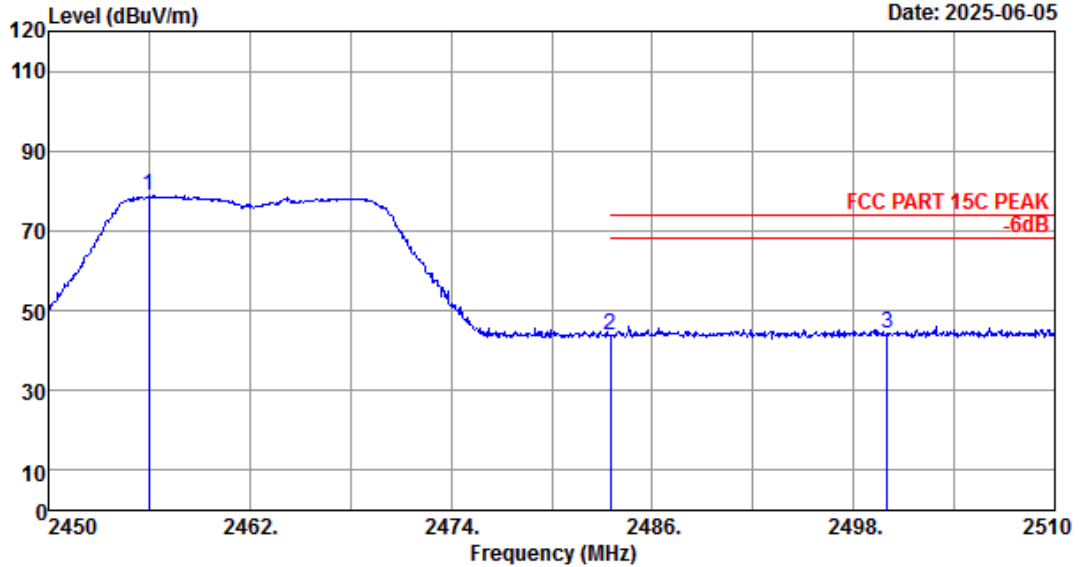


Site no. : RF Chamber Data no. : 14
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11g 2462MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2468.060	27.74	4.66	49.58	85.46	68.28	-----	-----	Peak
2	2483.500	27.87	4.68	49.56	61.42	44.41	74.00	29.59	Peak
3	2500.000	28.00	4.70	49.55	60.38	43.53	74.00	30.47	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.

Data: 13 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)

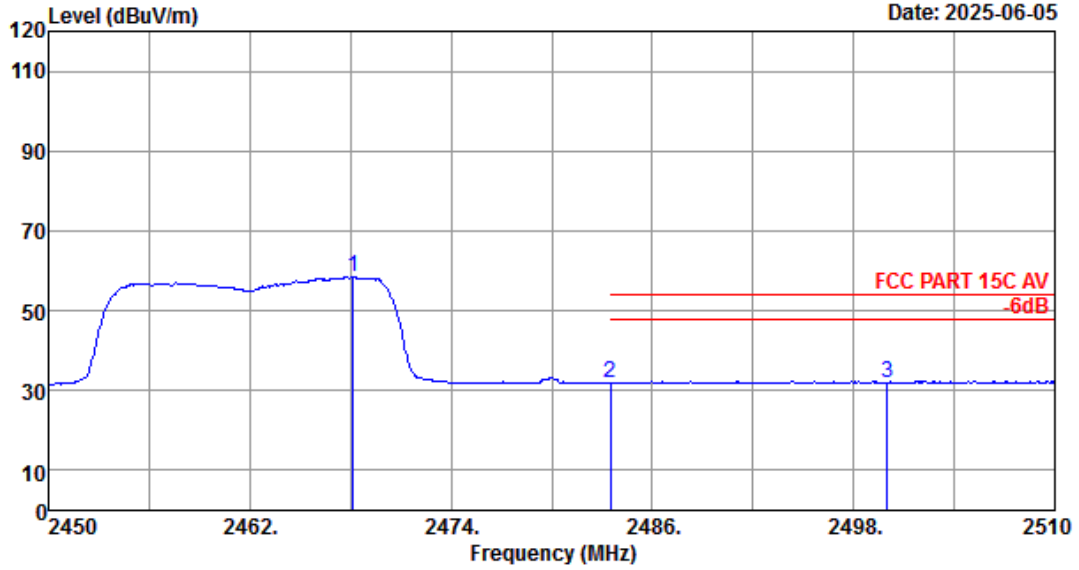


Site no. : RF Chamber Data no. : 13
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11g 2462MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2456.000	27.65	4.66	49.59	95.99	78.71	-----	-----	Peak
2	2483.500	27.87	4.68	49.56	60.81	43.80	74.00	30.20	Peak
3	2500.000	28.00	4.70	49.55	61.28	44.43	74.00	29.57	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.

Data: 15 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)

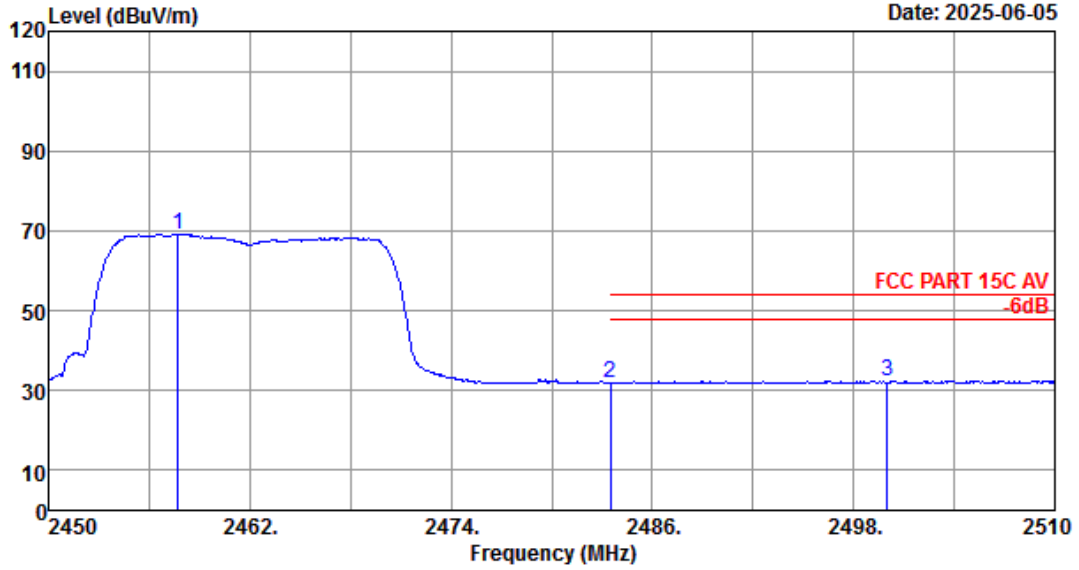


Site no. : RF Chamber Data no. : 15
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11g 2462MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2468.180	27.75	4.66	49.58	75.56	58.39	-----	-----	Average
2	2483.500	27.87	4.68	49.56	49.03	32.02	54.00	21.98	Average
3	2500.000	28.00	4.70	49.55	48.81	31.96	54.00	22.04	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.

Data: 16 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)

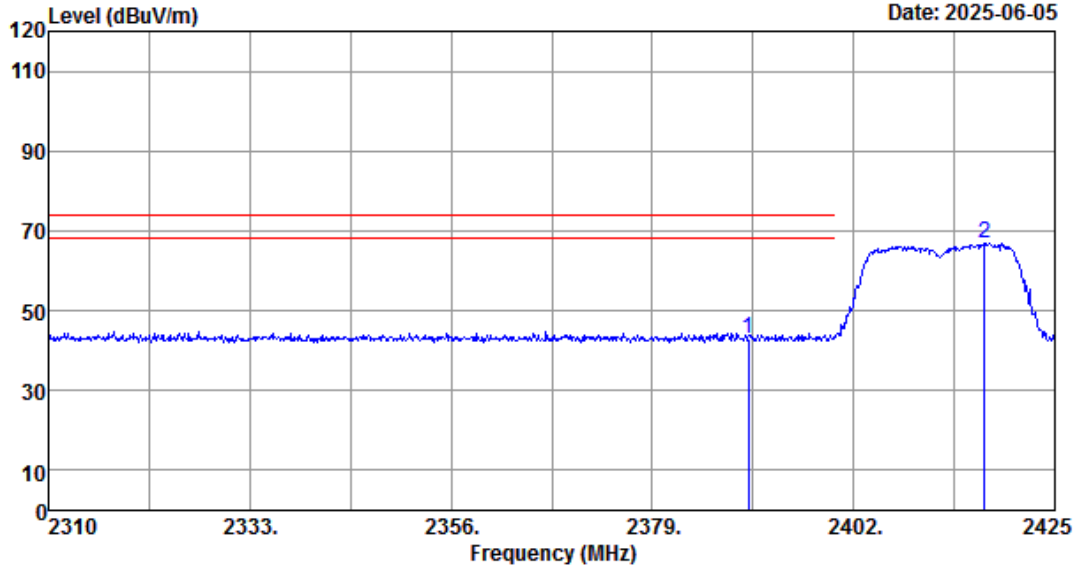


Site no. : RF Chamber Data no. : 16
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11g 2462MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2457.740	27.66	4.66	49.59	86.39	69.12	-----	-----	Average
2	2483.500	27.87	4.68	49.56	49.01	32.00	54.00	22.00	Average
3	2500.000	28.00	4.70	49.55	49.00	32.15	54.00	21.85	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.

Data: 18 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)

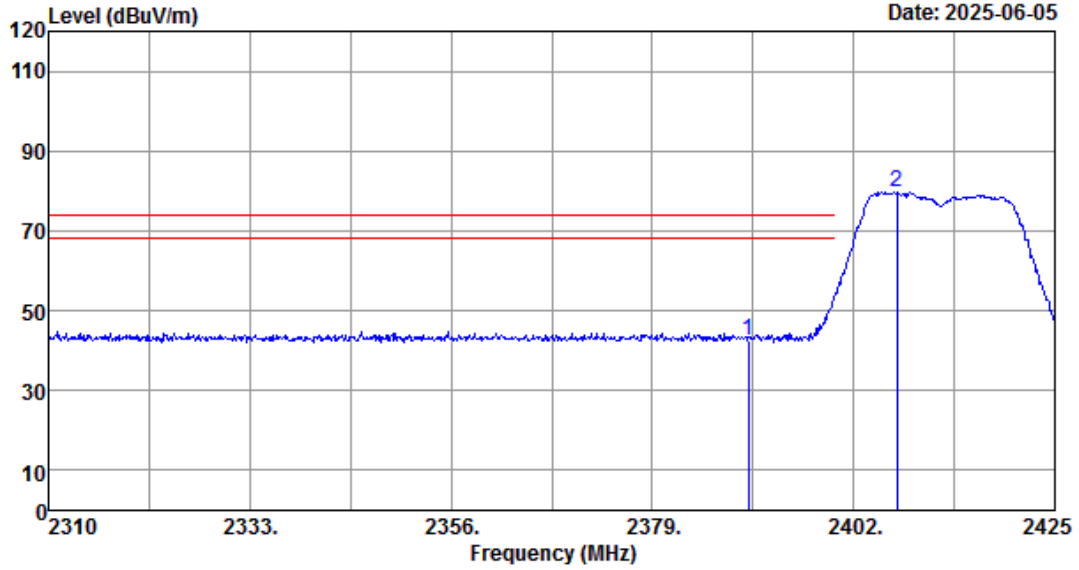


Site no. : RF Chamber Data no. : 18
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11n20 2412MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	27.56	4.58	49.65	60.53	43.02	74.00	30.98	Peak
2	2416.950	27.60	4.60	49.62	84.48	67.06	-----	-----	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.

Data: 17 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)

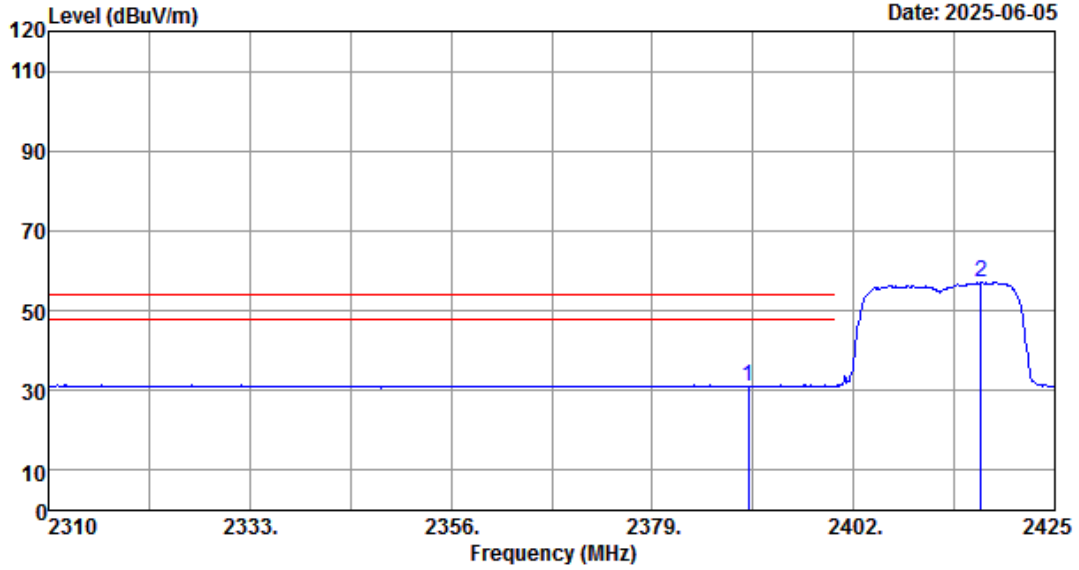


Site no. : RF Chamber Data no. : 17
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11n20 2412MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	27.56	4.58	49.65	60.24	42.73	74.00	31.27	Peak
2	2406.945	27.60	4.60	49.63	97.29	79.86	-----	-----	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.

Data: 19 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)

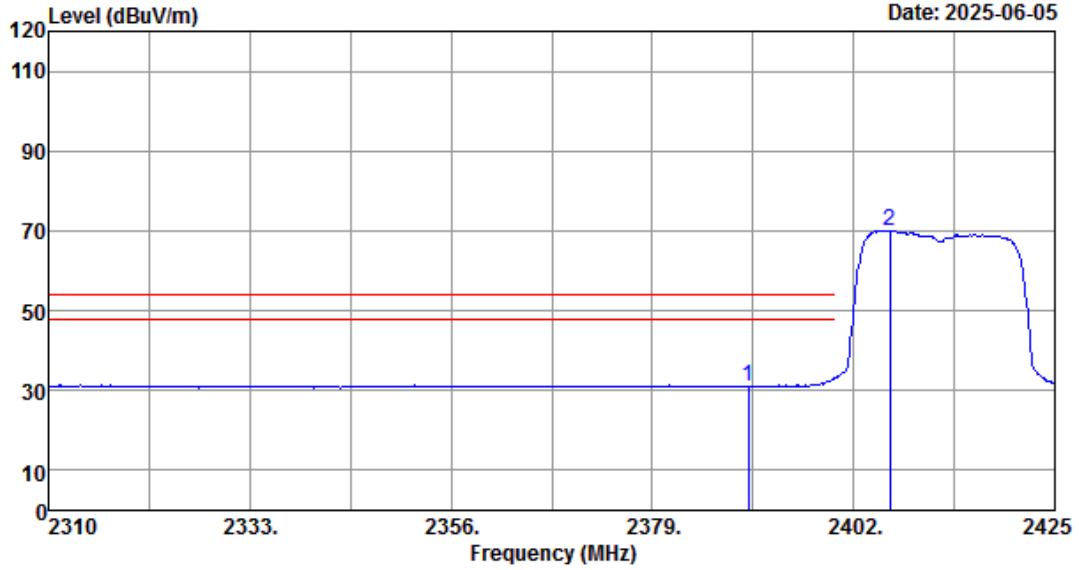


Site no. : RF Chamber Data no. : 19
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11n20 2412MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	27.56	4.58	49.65	48.43	30.92	54.00	23.08	Average
2	2416.605	27.60	4.60	49.63	74.57	57.14	-----	-----	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.

Data: 20 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)

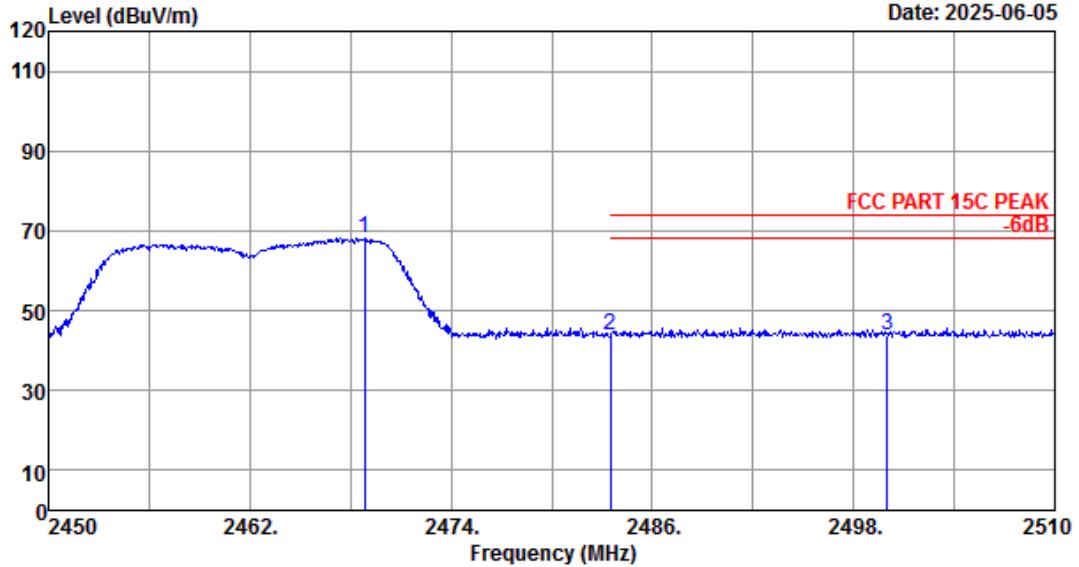


Site no. : RF Chamber Data no. : 20
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11n20 2412MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	27.56	4.58	49.65	48.61	31.10	54.00	22.90	Average
2	2406.140	27.60	4.60	49.63	87.59	70.16	-----	-----	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.

Data: 21 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)

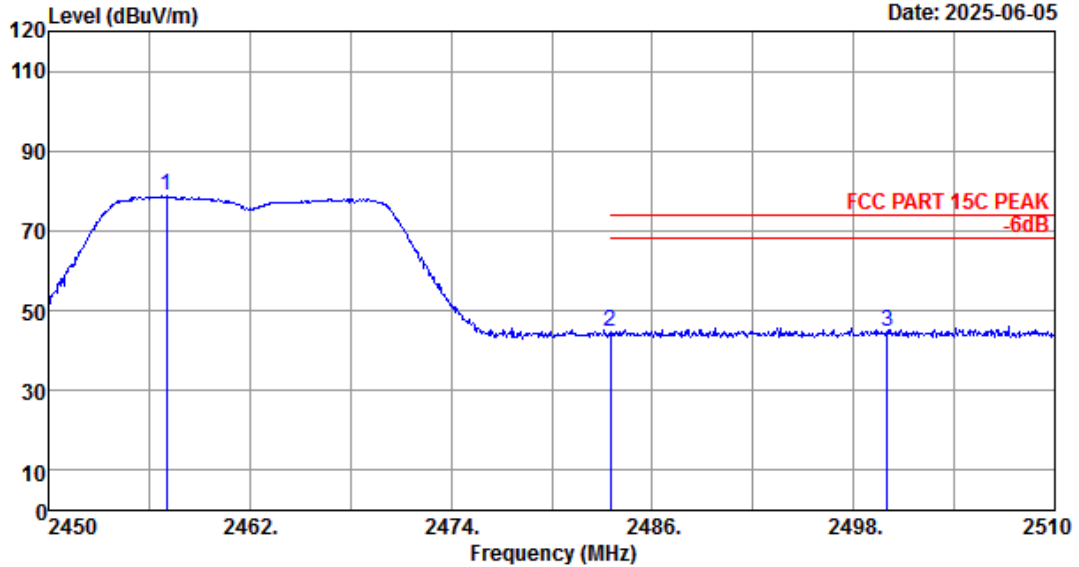


Site no. : RF Chamber Data no. : 21
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11n20 2462MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2468.840	27.75	4.66	49.58	85.26	68.09	-----	-----	Peak
2	2483.500	27.87	4.68	49.56	60.97	43.96	74.00	30.04	Peak
3	2500.000	28.00	4.70	49.55	60.65	43.80	74.00	30.20	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.

Data: 22 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)

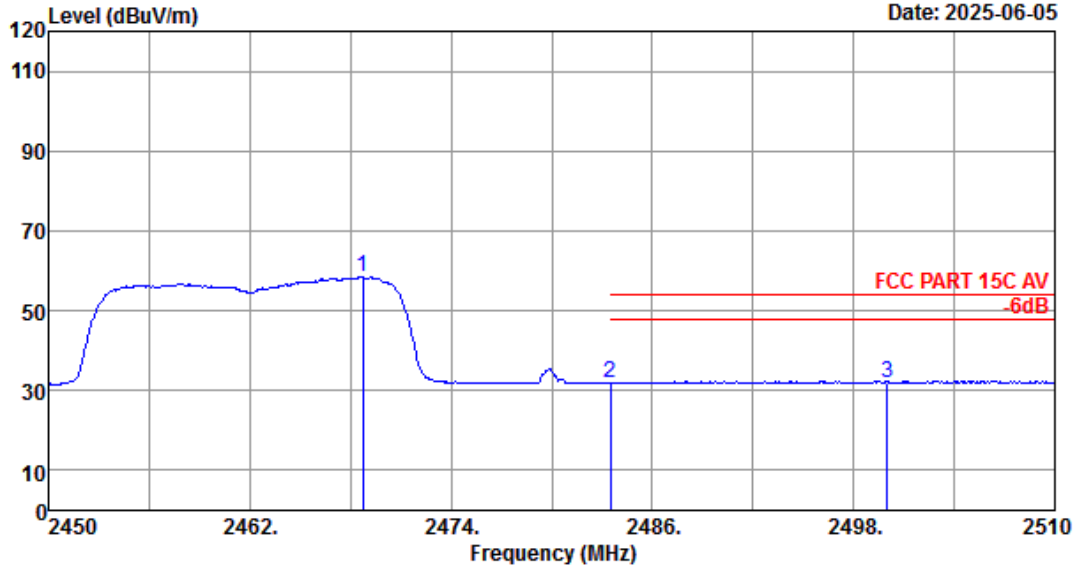


Site no. : RF Chamber Data no. : 22
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11n20 2462MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2457.020	27.66	4.66	49.59	96.00	78.73	-----	-----	Peak
2	2483.500	27.87	4.68	49.56	61.65	44.64	74.00	29.36	Peak
3	2500.000	28.00	4.70	49.55	61.41	44.56	74.00	29.44	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.

Data: 24 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)

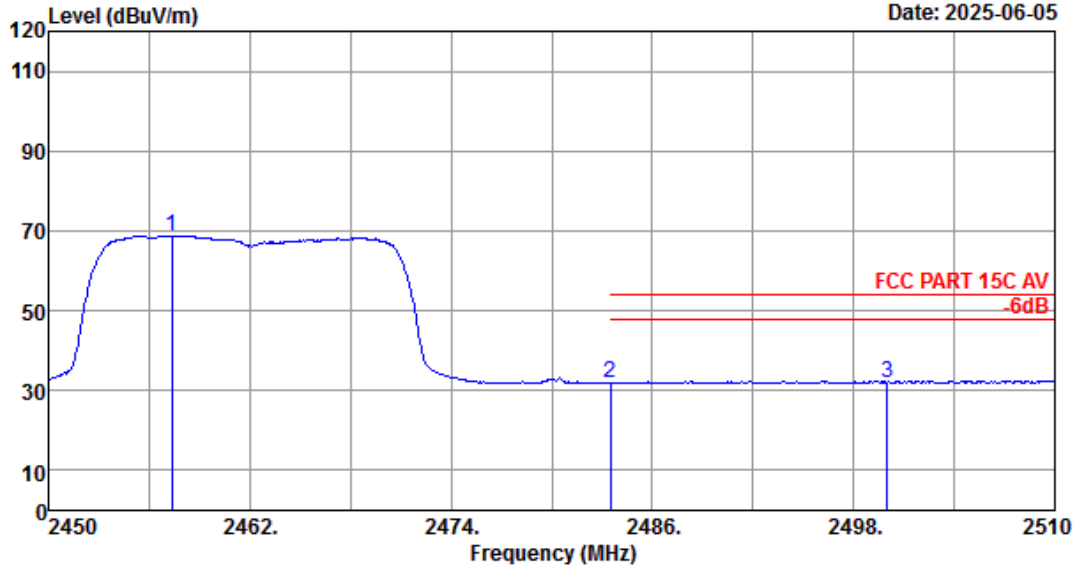


Site no. : RF Chamber Data no. : 24
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11n20 2462MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2468.720	27.75	4.66	49.58	75.63	58.46	-----	-----	Average
2	2483.500	27.87	4.68	49.56	48.99	31.98	54.00	22.02	Average
3	2500.000	28.00	4.70	49.55	48.81	31.96	54.00	22.04	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.

Data: 23 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)

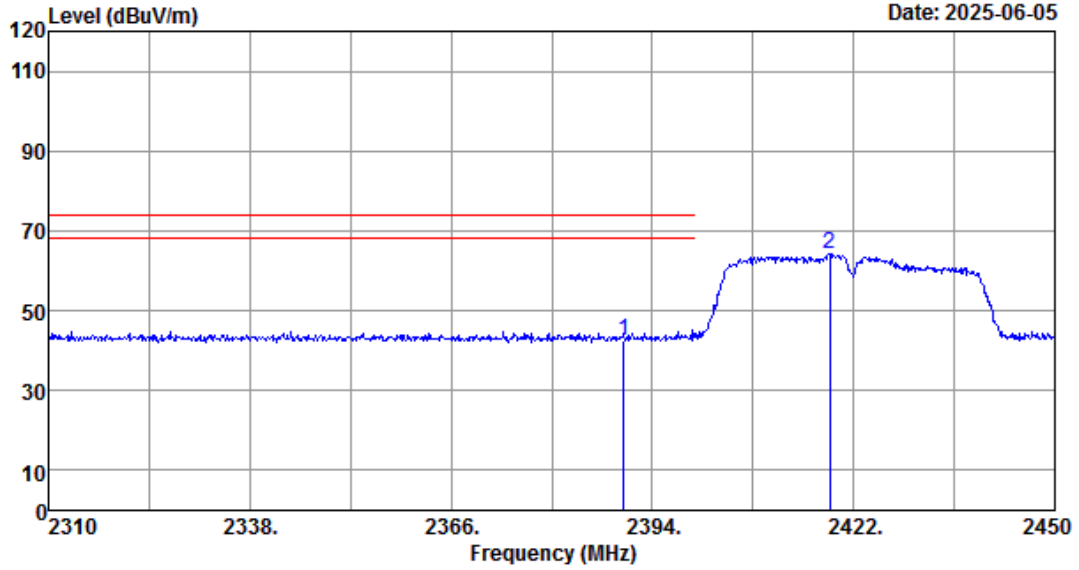


Site no. : RF Chamber Data no. : 23
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11n20 2462MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2457.380	27.66	4.66	49.59	86.11	68.84	-----	-----	Average
2	2483.500	27.87	4.68	49.56	48.96	31.95	54.00	22.05	Average
3	2500.000	28.00	4.70	49.55	48.90	32.05	54.00	21.95	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.

Data: 25 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)

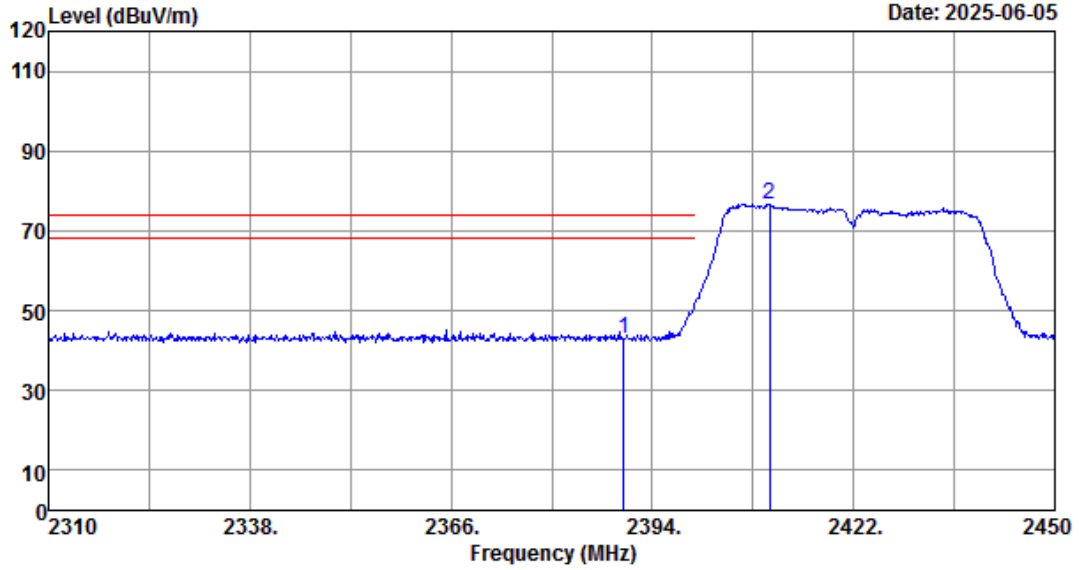


Site no. : RF Chamber Data no. : 25
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11n40 2422MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	27.56	4.58	49.65	59.99	42.48	74.00	31.52	Peak
2	2418.640	27.60	4.60	49.62	81.62	64.20	-----	-----	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.

Data: 26 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)

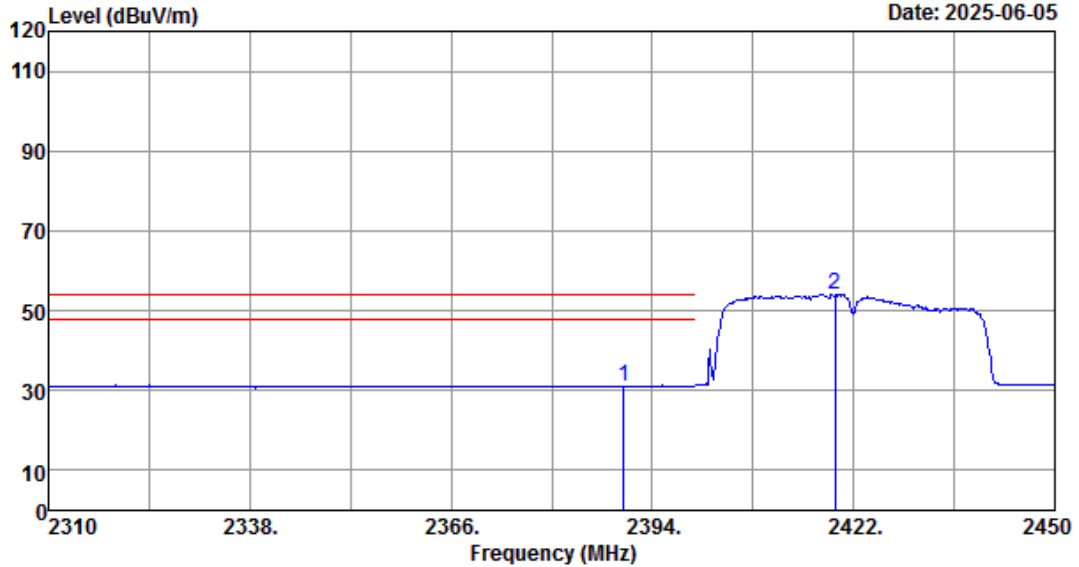


Site no. : RF Chamber Data no. : 26
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11n40 2422MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	27.56	4.58	49.65	60.49	42.98	74.00	31.02	Peak
2	2410.380	27.60	4.60	49.63	94.25	76.82	-----	-----	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.

Data: 28 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)

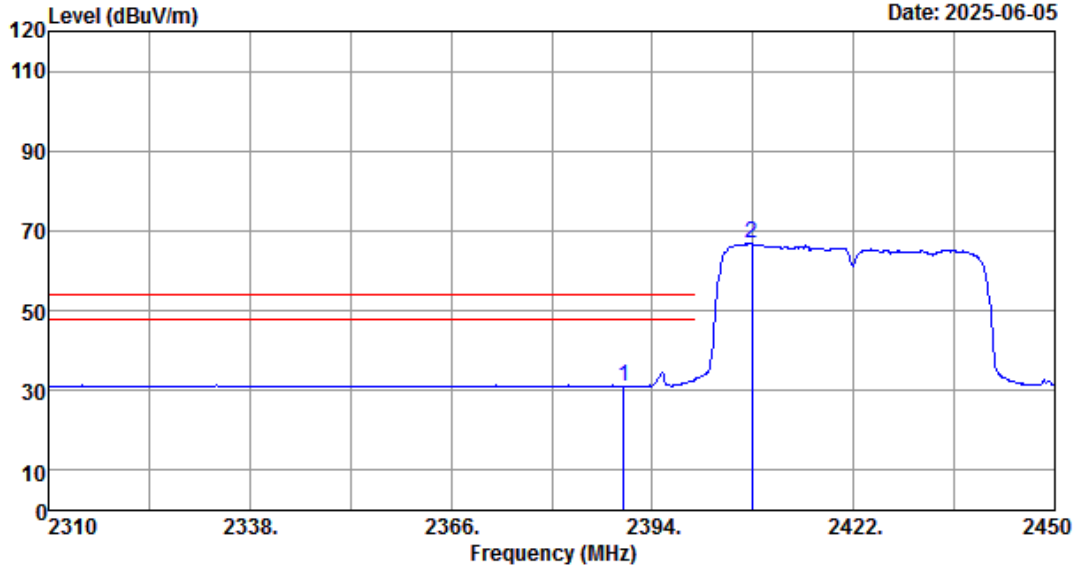


Site no. : RF Chamber Data no. : 28
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11n40 2422MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	27.56	4.58	49.65	48.49	30.98	54.00	23.02	Average
2	2419.480	27.60	4.60	49.62	71.62	54.20	-----	-----	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.

Data: 27 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)

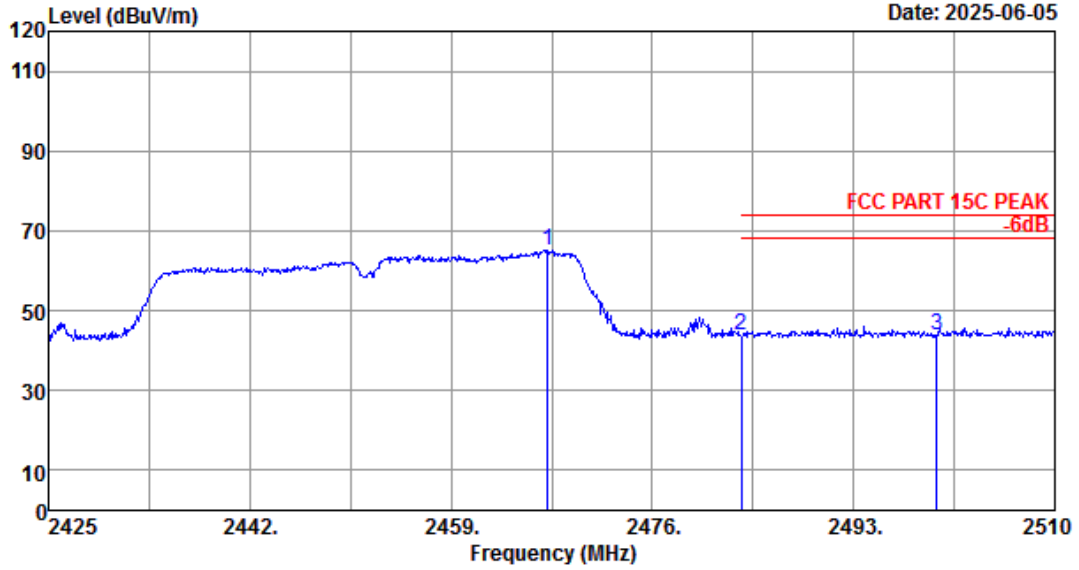


Site no. : RF Chamber Data no. : 27
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11n40 2422MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2390.000	27.56	4.58	49.65	48.58	31.07	54.00	22.93	Average
2	2407.860	27.60	4.60	49.63	84.24	66.81	-----	-----	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.

Data: 30 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)

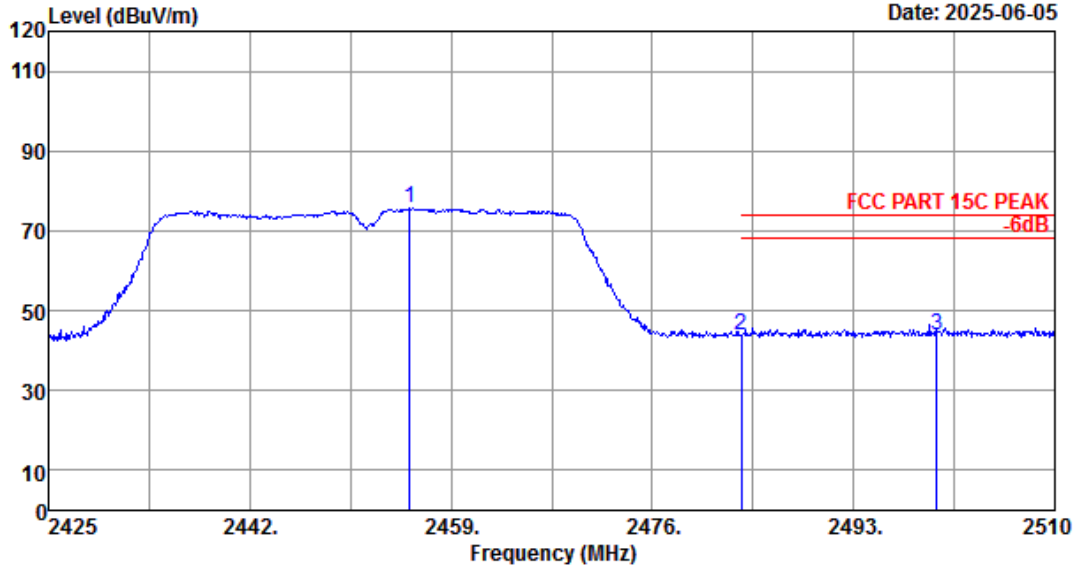


Site no. : RF Chamber Data no. : 30
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11n40 2452MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2467.160	27.74	4.66	49.58	82.23	65.05	-----	-----	Peak
2	2483.500	27.87	4.68	49.56	61.01	44.00	74.00	30.00	Peak
3	2500.000	28.00	4.70	49.55	60.87	44.02	74.00	29.98	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.

Data: 29 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)

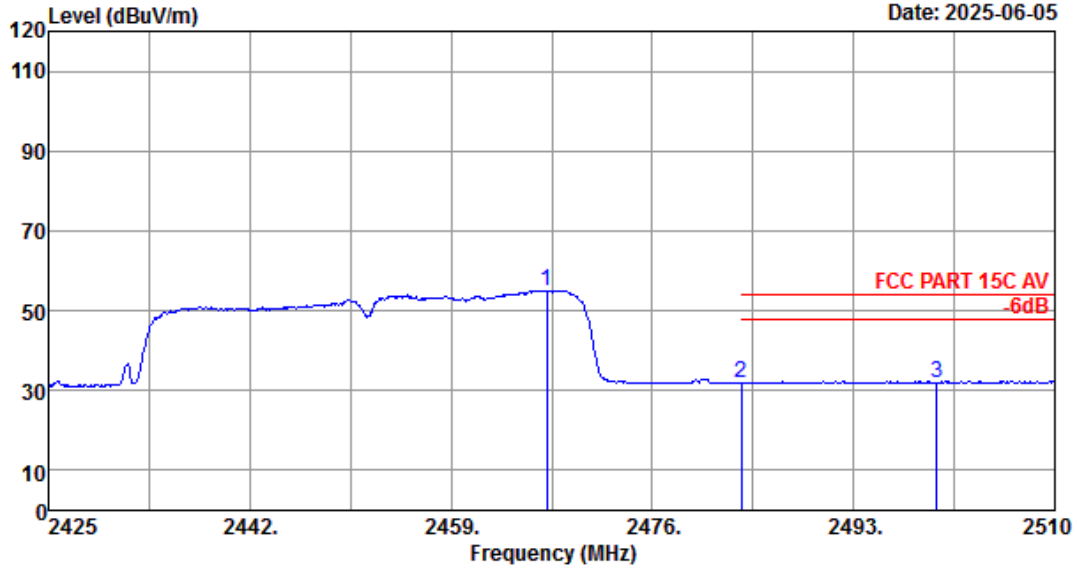


Site no. : RF Chamber Data no. : 29
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11n40 2452MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2455.515	27.64	4.66	49.59	92.84	75.55	-----	-----	Peak
2	2483.500	27.87	4.68	49.56	60.88	43.87	74.00	30.13	Peak
3	2500.000	28.00	4.70	49.55	60.85	44.00	74.00	30.00	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.

Data: 31 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)

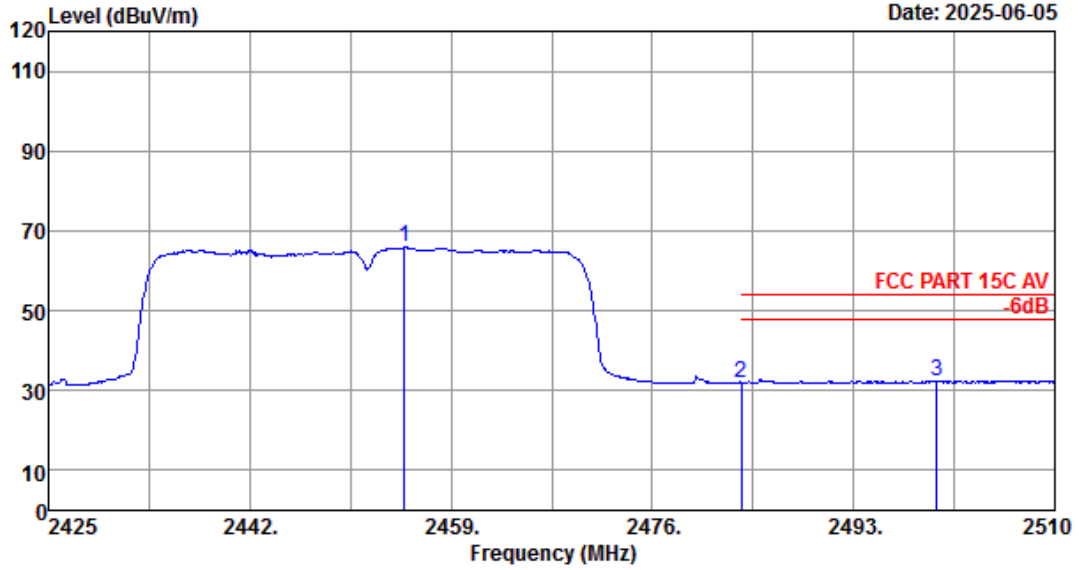


Site no. : RF Chamber Data no. : 31
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C AV Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11n40 2452MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2467.075	27.74	4.66	49.58	72.27	55.09	-----	-----	Average
2	2483.500	27.87	4.68	49.56	49.00	31.99	54.00	22.01	Average
3	2500.000	28.00	4.70	49.55	48.92	32.07	54.00	21.93	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.

Data: 32 File: \\192.168.51.100\測試報告\2025測試報告\A\辐射\A1Z2502020-FCC-RF-WIFI2.4G.EM6 (104)



Site no. : RF Chamber Data no. : 32
 Dis. / Ant. : 3m 2024 MCTD1209-3007 Ant. pol. : VERTICAL
 Limit : FCC PART 15C AV Engineer : Epoch
 Env. / Ins. : 23.4°C/51%
 Test Mode : WIFI2.4G 11n40 2452MHz TX Mode

No.	Freq. (MHz)	Ant. Factor (dB/m)	Cable Loss (dB)	AMP factor (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limits (dBuV/m)	Margin (dB)	Remark
1	2455.090	27.64	4.66	49.59	83.19	65.90	-----	-----	Average
2	2483.500	27.87	4.68	49.56	49.10	32.09	54.00	21.91	Average
3	2500.000	28.00	4.70	49.55	48.98	32.13	54.00	21.87	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:

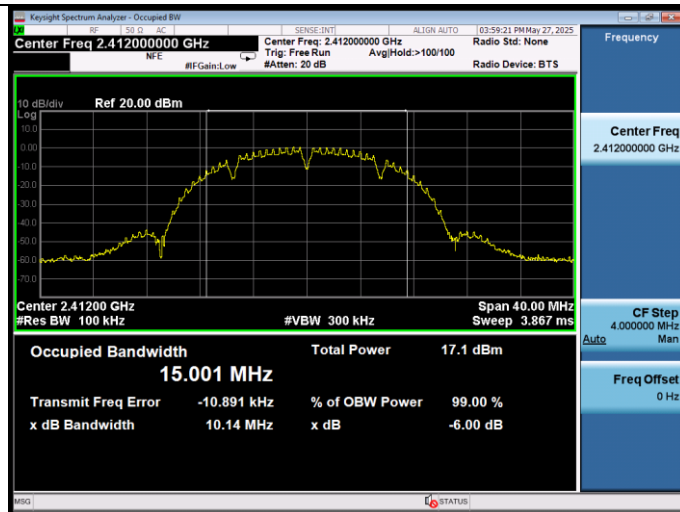
- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be approximately 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

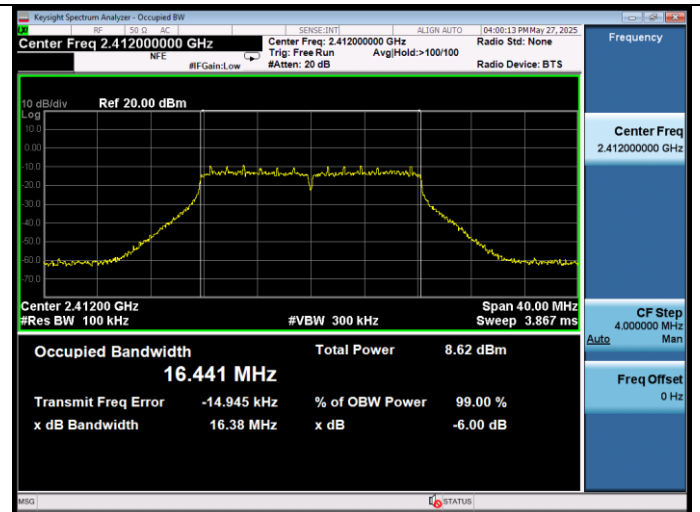
EUT: Desktop 3D Printer		
M/N: Phrozen Sonic CS+ 3D Printer		
Test date: 2025-05-27	Pressure: 102.1±1.0 kpa	Humidity: 52.3±3.0%
Tested by: Carl	Test site: RF site	Temperature: 22.3±0.6°C

Test Mode	CH	-6dB Bandwidth (MHz)	Limit (KHz)
11b	CH1	10.14	≧ 500
	CH6	10.09	
	CH11	10.11	
11g	CH1	16.38	≧ 500
	CH6	16.37	
	CH11	16.38	
11n HT20	CH1	17.37	≧ 500
	CH6	17.15	
	CH11	17.30	
11n HT40	CH3	35.70	≧ 500
	CH6	35.80	
	CH9	35.77	
Conclusion: Pass			

Test Mode: IEEE 802.11b
Test CH1: 2412MHz



Test Mode: IEEE 802.11g
Test CH1: 2412MHz



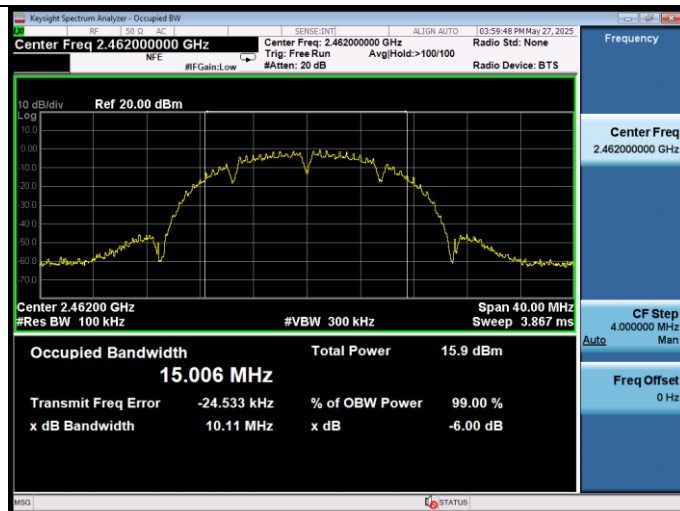
Test CH6: 2437MHz



Test CH6: 2437MHz



Test CH11: 2462MHz



Test CH11: 2462MHz

