

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Result
11ac-VHT40	MCS0	38	5190	12.88	12.31	15.61	≤ 23.98	Pass
11ac-VHT40	MCS0	46	5230	12.56	12.61	15.60	≤ 23.98	Pass
11ac-VHT40	MCS0	54	5270	12.90	12.75	15.84	≤ 23.98	Pass
11ac-VHT40	MCS0	62	5310	13.11	12.72	15.93	≤ 23.98	Pass
11ac-VHT40	MCS0	102	5510	12.96	12.83	15.91	≤ 23.98	Pass
11ac-VHT40	MCS0	110	5550	12.66	12.89	15.79	≤ 23.98	Pass
11ac-VHT40	MCS0	134	5670	12.13	13.11	15.66	≤ 23.98	Pass
11ac-VHT40	MCS0	142	5710	12.20	13.19	15.73	≤ 23.98	Pass
11ac-VHT40	MCS0	151	5755	12.45	13.31	15.91	≤ 30.00	Pass
11ac-VHT40	MCS0	159	5795	12.64	13.23	15.96	≤ 30.00	Pass
11ac-VHT80	MCS0	42	5210	13.27	12.53	15.93	≤ 23.98	Pass
11ac-VHT80	MCS0	58	5290	10.56	9.81	13.21	≤ 23.98	Pass
11ac-VHT80	MCS0	106	5530	12.93	12.32	15.65	≤ 23.98	Pass
11ac-VHT80	MCS0	122	5610	12.58	13.51	16.08	≤ 23.98	Pass
11ac-VHT80	MCS0	138	5690	12.47	13.32	15.93	≤ 23.98	Pass
11ac-VHT80	MCS0	155	5775	12.70	12.94	15.83	≤ 30.00	Pass
11ax-HE20	MCS0	36	5180	13.61	12.66	16.17	≤ 23.98	Pass
11ax-HE20	MCS0	44	5220	13.77	12.97	16.40	≤ 23.98	Pass
11ax-HE20	MCS0	48	5240	13.51	12.96	16.25	≤ 23.98	Pass
11ax-HE20	MCS0	52	5260	13.55	13.38	16.48	≤ 23.98	Pass
11ax-HE20	MCS0	60	5300	13.63	13.12	16.39	≤ 23.98	Pass
11ax-HE20	MCS0	64	5320	13.86	13.25	16.58	≤ 23.98	Pass
11ax-HE20	MCS0	100	5500	13.48	12.58	16.06	≤ 23.98	Pass
11ax-HE20	MCS0	116	5580	12.62	13.40	16.04	≤ 23.98	Pass
11ax-HE20	MCS0	140	5700	13.15	13.32	16.25	≤ 23.98	Pass
11ax-HE20	MCS0	144	5720	13.19	13.54	16.38	≤ 22.84	Pass
11ax-HE20	MCS0	149	5745	13.27	12.80	16.05	≤ 30.00	Pass
11ax-HE20	MCS0	157	5785	13.17	13.92	16.57	≤ 30.00	Pass
11ax-HE20	MCS0	165	5825	13.23	13.59	16.42	≤ 30.00	Pass

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 0 Average Power (dBm)	Ant 1 Average Power (dBm)	Total Average Power (dBm)	Average Power Limit (dBm)	Result
11ax-HE40	MCS0	38	5190	13.20	13.00	16.11	≤ 23.98	Pass
11ax-HE40	MCS0	46	5230	13.10	12.98	16.05	≤ 23.98	Pass
11ax-HE40	MCS0	54	5270	12.83	12.85	15.85	≤ 23.98	Pass
11ax-HE40	MCS0	62	5310	3.99	4.78	7.41	≤ 23.98	Pass
11ax-HE40	MCS0	102	5510	2.71	5.06	7.05	≤ 23.98	Pass
11ax-HE40	MCS0	110	5550	12.72	12.84	15.79	≤ 23.98	Pass
11ax-HE40	MCS0	134	5670	7.48	7.91	10.71	≤ 23.98	Pass
11ax-HE40	MCS0	142	5710	12.52	13.31	15.94	≤ 23.98	Pass
11ax-HE40	MCS0	151	5755	12.65	12.88	15.78	≤ 30.00	Pass
11ax-HE40	MCS0	159	5795	12.71	13.54	16.16	≤ 30.00	Pass
11ax-HE80	MCS0	42	5210	7.46	9.45	11.58	≤ 23.98	Pass
11ax-HE80	MCS0	58	5290	7.10	9.20	11.29	≤ 23.98	Pass
11ax-HE80	MCS0	106	5530	12.51	11.75	15.16	≤ 23.98	Pass
11ax-HE80	MCS0	122	5610	11.46	12.67	15.12	≤ 23.98	Pass
11ax-HE80	MCS0	138	5690	12.12	12.23	15.19	≤ 23.98	Pass
11ax-HE80	MCS0	155	5775	12.04	12.39	15.23	≤ 30.00	Pass

Note 1:

The Total Average Power (dBm) = $10 \cdot \log \{10^{(\text{Ant 0 Average Power} / 10)} + 10^{(\text{Ant 1 Average Power} / 10)}\}$.

7.5. Transmit Power Control

7.5.1. Test Limit

The U-NII device is required to have the capability to operate at least 6 dB below the mean EIRP value of 30 dBm.

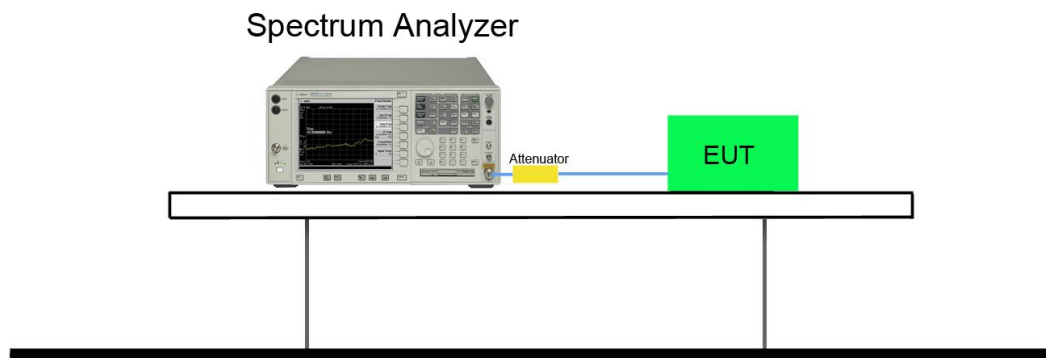
7.5.2. Test Procedure Used

KDB 789033 D02v02r01 - Section E) 3) b) Method PM-G

7.5.3. Test Setting

Average power measurements were performed only when the EUT was transmitting at its maximum power control level using a broadband power meter with a pulse sensor. The power meter implemented triggering and gating capabilities which were set up such that power measurements were recorded only during the ON time of the transmitter. The trace was averaged over 100 traces to obtain the final measured average power.

7.5.4. Test Setup



7.5.5. Test Result

Note: TPC mechanism is not required for systems with an e.i.r.p. of less than 500 mW.

7.6. Power Spectral Density Measurement

7.6.1. Test Limit

For FCC Power Spectral Density Limit

For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band.

For the band 5.725-5.85 GHz, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band.

If transmitting antennas of directional gain greater than 6dBi are used, the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

For IC Power Spectral Density Limit

For the band 5.15-5.25 GHz, the e.i.r.p. spectral density shall not exceed 10 dBm in any 1.0 MHz band.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the power spectral density shall not exceed 11 dBm in any 1.0 MHz band.

For the 5.725-5.85 GHz band, the power spectral density shall not exceed 30 dBm in any 500 kHz band.

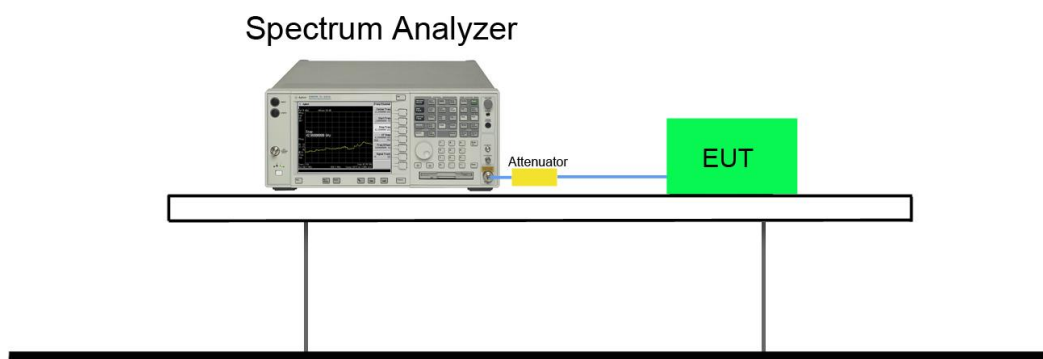
7.6.2. Test Procedure Used

KDB 789033 D02v02r01 - Section F

7.6.3. Test Setting

1. Analyzer was set to the center frequency of the UNII channel under investigation
2. Span was set to encompass the entire 26dB EBW of the signal.
3. RBW = 1MHz, if measurement bandwidth of Maximum PSD is specified in 500 kHz,
4. RBW = 100 kHz
5. VBW = 3MHz
6. Number of sweep points $\geq 2 \times (\text{span} / \text{RBW})$
7. Detector = power averaging (Average)
8. Sweep time = auto
9. Trigger = free run
10. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
11. Add $10 \cdot \log(1/x)$, where x is the duty cycle, to the measured power in order to compute the average power during the actual transmission times (because the measurement represents an average over both the on and off times of the transmission). For example, add $10 \cdot \log(1/0.25) = 6$ dB if the duty cycle is 25 percent.

7.6.4. Test Setup



7.6.5. Test Result

Product	Smart touch panel tablet	Temperature	21°C
Test Engineer	Peter	Relative Humidity	56%
Test Site	SR7	Test Date	2025/4/9~2025/4/10

FCC: U-NII-1 & U-NII-2A & U-NII-2C

Test Mode	Data Rate /MCS	Ch. No.	Freq. (MHz)	Ant 0 PSD (dBm/MHz)	Ant 1 PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Result
11a	6Mbps	36	5180	0.822	0.806	69.04%	5.433	≤ 9.03	Pass
11a	6Mbps	44	5220	0.749	1.526	69.04%	5.774	≤ 9.03	Pass
11a	6Mbps	48	5240	0.480	1.549	69.04%	5.667	≤ 9.03	Pass
11a	6Mbps	52	5260	0.880	1.561	69.04%	5.853	≤ 9.03	Pass
11a	6Mbps	60	5300	1.444	1.802	69.04%	6.246	≤ 9.03	Pass
11a	6Mbps	64	5320	1.210	1.902	69.04%	6.189	≤ 9.03	Pass
11a	6Mbps	100	5500	2.031	2.535	69.04%	6.910	≤ 8.07	Pass
11a	6Mbps	116	5580	1.462	1.609	69.04%	6.155	≤ 8.07	Pass
11a	6Mbps	140	5700	1.711	0.965	69.04%	5.973	≤ 8.07	Pass
11a	6Mbps	144	5720	1.374	1.414	69.04%	6.013	≤ 8.07	Pass
11ac-VHT20	MCS0	36	5180	0.073	-0.134	67.83%	4.667	≤ 9.03	Pass
11ac-VHT20	MCS0	44	5220	-0.862	1.033	67.83%	4.884	≤ 9.03	Pass
11ac-VHT20	MCS0	48	5240	-0.254	0.344	67.83%	4.751	≤ 9.03	Pass
11ac-VHT20	MCS0	52	5260	0.168	1.451	67.83%	5.553	≤ 9.03	Pass
11ac-VHT20	MCS0	60	5300	-0.214	1.155	67.83%	5.220	≤ 9.03	Pass
11ac-VHT20	MCS0	64	5320	0.492	1.974	67.83%	5.992	≤ 9.03	Pass
11ac-VHT20	MCS0	100	5500	0.610	1.012	67.83%	5.512	≤ 8.07	Pass
11ac-VHT20	MCS0	116	5580	-0.127	1.252	67.83%	5.313	≤ 8.07	Pass
11ac-VHT20	MCS0	140	5700	0.080	0.814	67.83%	5.159	≤ 8.07	Pass
11ac-VHT20	MCS0	144	5720	0.069	1.426	67.83%	5.496	≤ 8.07	Pass

Test Mode	Data Rate /MCS	Ch. No.	Freq. (MHz)	Ant 0 PSD (dBm/MHz)	Ant 1 PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Result
11ac-VHT40	MCS0	38	5190	-3.676	-3.741	51.09%	2.219	≤ 9.03	Pass
11ac-VHT40	MCS0	46	5230	-5.150	-3.979	51.09%	1.402	≤ 9.03	Pass
11ac-VHT40	MCS0	54	5270	-3.445	-3.495	51.09%	2.457	≤ 9.03	Pass
11ac-VHT40	MCS0	62	5310	-3.024	-2.676	51.09%	3.080	≤ 9.03	Pass
11ac-VHT40	MCS0	102	5510	-3.329	-2.767	51.09%	2.888	≤ 8.07	Pass
11ac-VHT40	MCS0	110	5550	-3.782	-2.315	51.09%	2.940	≤ 8.07	Pass
11ac-VHT40	MCS0	134	5670	-4.248	-2.865	51.09%	2.425	≤ 8.07	Pass
11ac-VHT40	MCS0	142	5710	-4.728	-2.226	51.09%	2.628	≤ 8.07	Pass
11ac-VHT80	MCS0	42	5210	-8.290	-8.110	34.64%	-0.585	≤ 9.03	Pass
11ac-VHT80	MCS0	58	5290	-10.137	-9.016	34.64%	-1.926	≤ 9.03	Pass
11ac-VHT80	MCS0	106	5530	-7.559	-7.703	34.64%	-0.016	≤ 8.07	Pass
11ac-VHT80	MCS0	122	5610	-8.418	-7.722	34.64%	-0.442	≤ 8.07	Pass
11ac-VHT80	MCS0	138	5690	-9.520	-7.041	34.64%	-0.491	≤ 8.07	Pass
11ax-HE20	MCS0	36	5180	-0.524	-0.274	61.55%	4.721	≤ 9.03	Pass
11ax-HE20	MCS0	44	5220	-0.545	-0.593	61.55%	4.549	≤ 9.03	Pass
11ax-HE20	MCS0	48	5240	-1.437	0.360	61.55%	4.672	≤ 9.03	Pass
11ax-HE20	MCS0	52	5260	-1.038	0.192	61.55%	4.738	≤ 9.03	Pass
11ax-HE20	MCS0	60	5300	0.409	0.919	61.55%	5.790	≤ 9.03	Pass
11ax-HE20	MCS0	64	5320	0.012	1.196	61.55%	5.762	≤ 9.03	Pass
11ax-HE20	MCS0	100	5500	0.442	0.092	61.55%	5.389	≤ 8.07	Pass
11ax-HE20	MCS0	116	5580	-0.309	0.374	61.55%	5.164	≤ 8.07	Pass
11ax-HE20	MCS0	140	5700	0.114	0.664	61.55%	5.516	≤ 8.07	Pass
11ax-HE20	MCS0	144	5720	-0.223	0.864	61.55%	5.472	≤ 8.07	Pass

Test Mode	Data Rate/MCS	Ch. No.	Freq. (MHz)	Ant 0 PSD (dBm/MHz)	Ant 1 PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)	Result
11ax-HE40	MCS0	38	5190	-0.599	-0.712	77.42%	3.467	≤ 9.03	Pass
11ax-HE40	MCS0	46	5230	-0.401	-0.522	77.42%	3.661	≤ 9.03	Pass
11ax-HE40	MCS0	54	5270	-1.191	0.494	77.42%	3.854	≤ 9.03	Pass
11ax-HE40	MCS0	62	5310	-8.128	-7.660	77.42%	-3.766	≤ 9.03	Pass
11ax-HE40	MCS0	102	5510	-8.117	-7.190	77.42%	-3.507	≤ 8.07	Pass
11ax-HE40	MCS0	110	5550	-0.484	0.334	77.42%	4.066	≤ 8.07	Pass
11ax-HE40	MCS0	134	5670	-6.157	-4.466	77.42%	-1.108	≤ 8.07	Pass
11ax-HE40	MCS0	142	5710	-0.751	0.384	77.42%	3.975	≤ 8.07	Pass
11ax-HE80	MCS0	42	5210	-6.764	-6.298	67.35%	-1.798	≤ 9.03	Pass
11ax-HE80	MCS0	58	5290	-5.928	-5.868	67.35%	-1.171	≤ 9.03	Pass
11ax-HE80	MCS0	106	5530	-4.305	-4.372	67.35%	0.389	≤ 8.07	Pass
11ax-HE80	MCS0	122	5610	-4.812	-3.142	67.35%	0.830	≤ 8.07	Pass
11ax-HE80	MCS0	138	5690	-4.558	-2.816	67.35%	1.127	≤ 8.07	Pass

Note: Total PSD (dBm/MHz) = $10 \cdot \log\{10^{\text{Ant 0 PSD}/10} + 10^{\text{Ant 1 PSD}/10}\}$ (dBm/MHz) + $10 \cdot \log(1/\text{duty cycle})$.

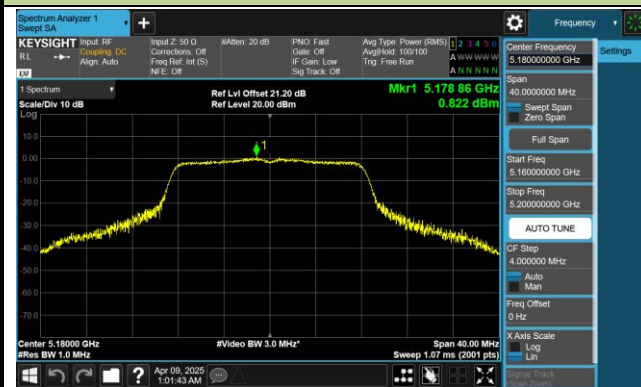
FCC: U-NII-3

Test Mode	Data Rate/ MCS	Ch. No.	Freq. (MHz)	Ant 0 PSD (dBm/510KHz)	Ant 1 PSD (dBm/510KHz)	Duty Cycle (%)	Total PSD (dBm/510kHz)	Limit (dBm/ 500kHz)	Result
11a	6Mbps	149	5745	-0.682	-0.475	69.04%	4.042	≤ 27.28	Pass
11a	6Mbps	157	5785	-1.055	-0.674	69.04%	3.759	≤ 27.28	Pass
11a	6Mbps	165	5825	-1.487	-1.047	69.04%	3.358	≤ 27.28	Pass
11ac-VHT20	MCS0	149	5745	-2.059	-0.609	67.83%	3.422	≤ 27.28	Pass
11ac-VHT20	MCS0	157	5785	-2.276	-1.585	67.83%	2.779	≤ 27.28	Pass
11ac-VHT20	MCS0	165	5825	-2.836	-1.079	67.83%	2.827	≤ 27.28	Pass
11ac-VHT40	MCS0	151	5755	-6.396	-3.739	51.09%	1.060	≤ 27.28	Pass
11ac-VHT40	MCS0	159	5795	-6.300	-4.211	51.09%	0.796	≤ 27.28	Pass
11ac-VHT80	MCS0	155	5775	-12.103	-9.208	34.64%	-2.804	≤ 27.28	Pass
11ax-HE20	MCS0	149	5745	-2.063	-1.650	61.55%	3.266	≤ 27.28	Pass
11ax-HE20	MCS0	157	5785	-2.794	-2.349	61.55%	2.552	≤ 27.28	Pass
11ax-HE20	MCS0	165	5825	-2.861	-2.642	61.55%	2.368	≤ 27.28	Pass
11ax-HE40	MCS0	151	5755	-3.335	-1.191	77.42%	1.990	≤ 27.28	Pass
11ax-HE40	MCS0	159	5795	-3.522	-1.235	77.42%	1.892	≤ 27.28	Pass
11ax-HE80	MCS0	155	5775	-6.721	-4.581	67.35%	-0.794	≤ 27.28	Pass

Note: Total PSD (dBm/500kHz) = $10 \cdot \log\{10^{\text{Ant 0 PSD}/10} + 10^{\text{Ant 1 PSD}/10}\}$ (dBm/500kHz) + $10 \cdot \log(1/\text{duty cycle})$.

802.11a Power Spectral Density - Ant 0

Channel 36 (5180MHz)



Channel 44 (5220MHz)



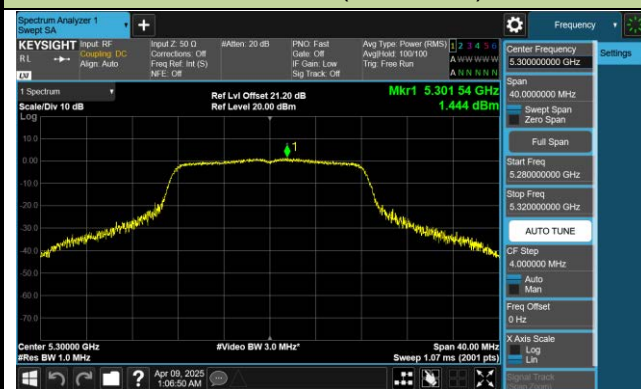
Channel 48 (5240MHz)



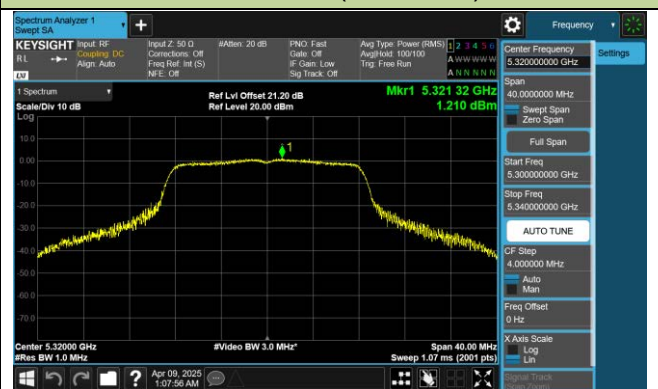
Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)

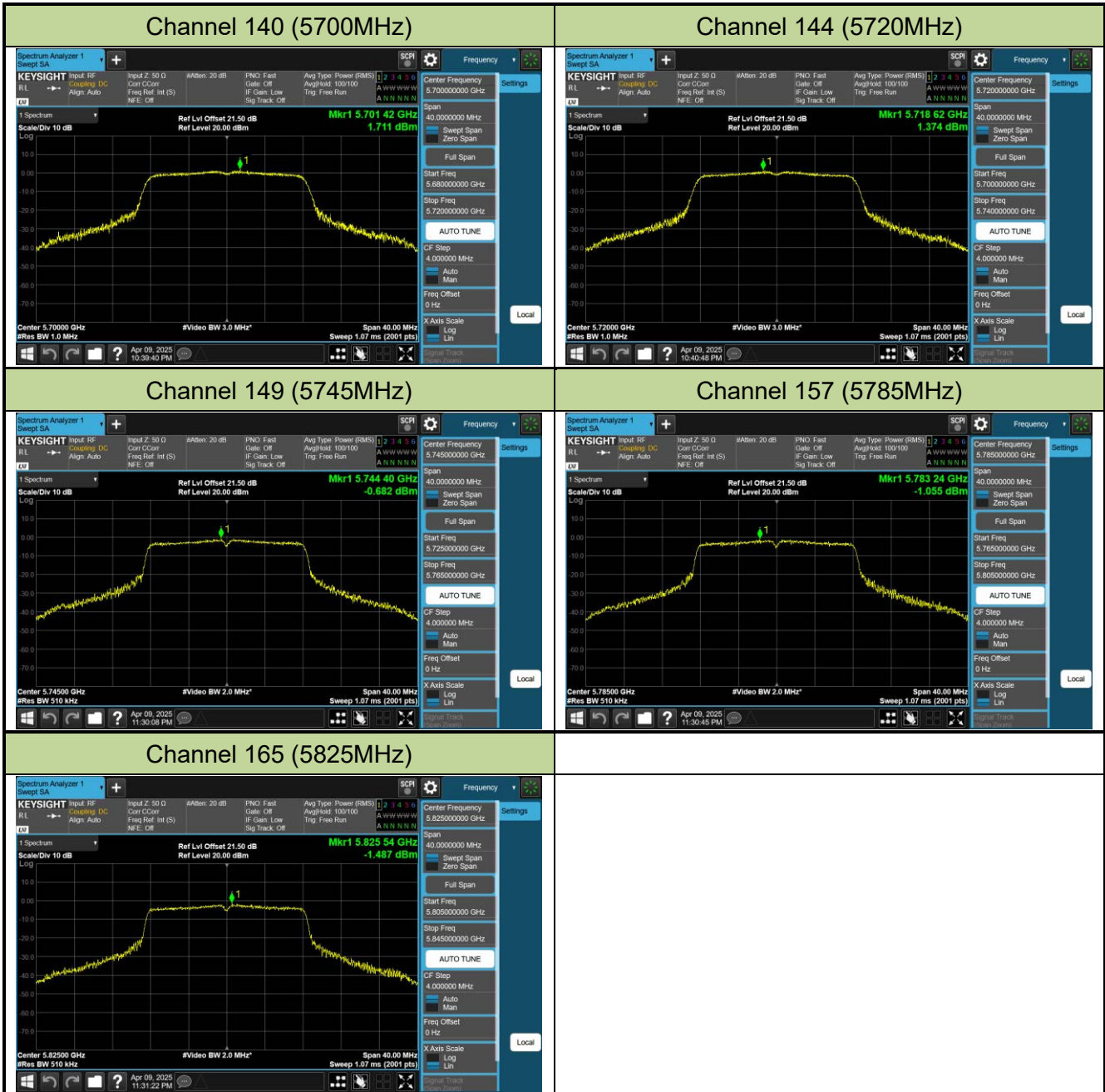


Channel 100 (5500MHz)



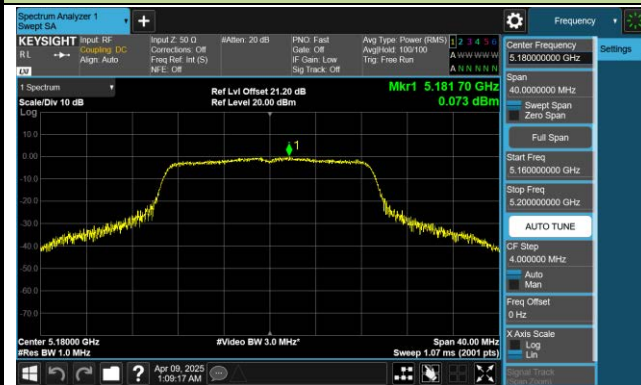
Channel 116 (5580MHz)





802.11ac-VHT20 Power Spectral Density - Ant 0

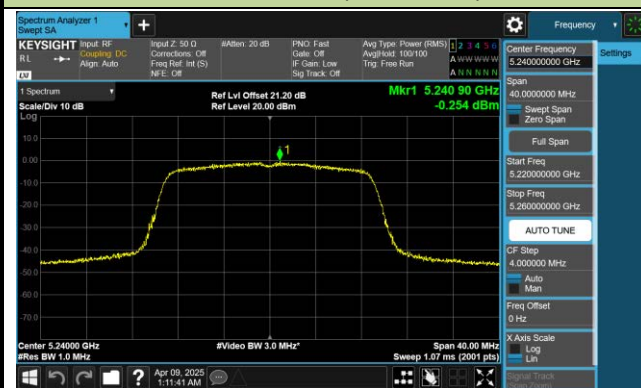
Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)



Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)

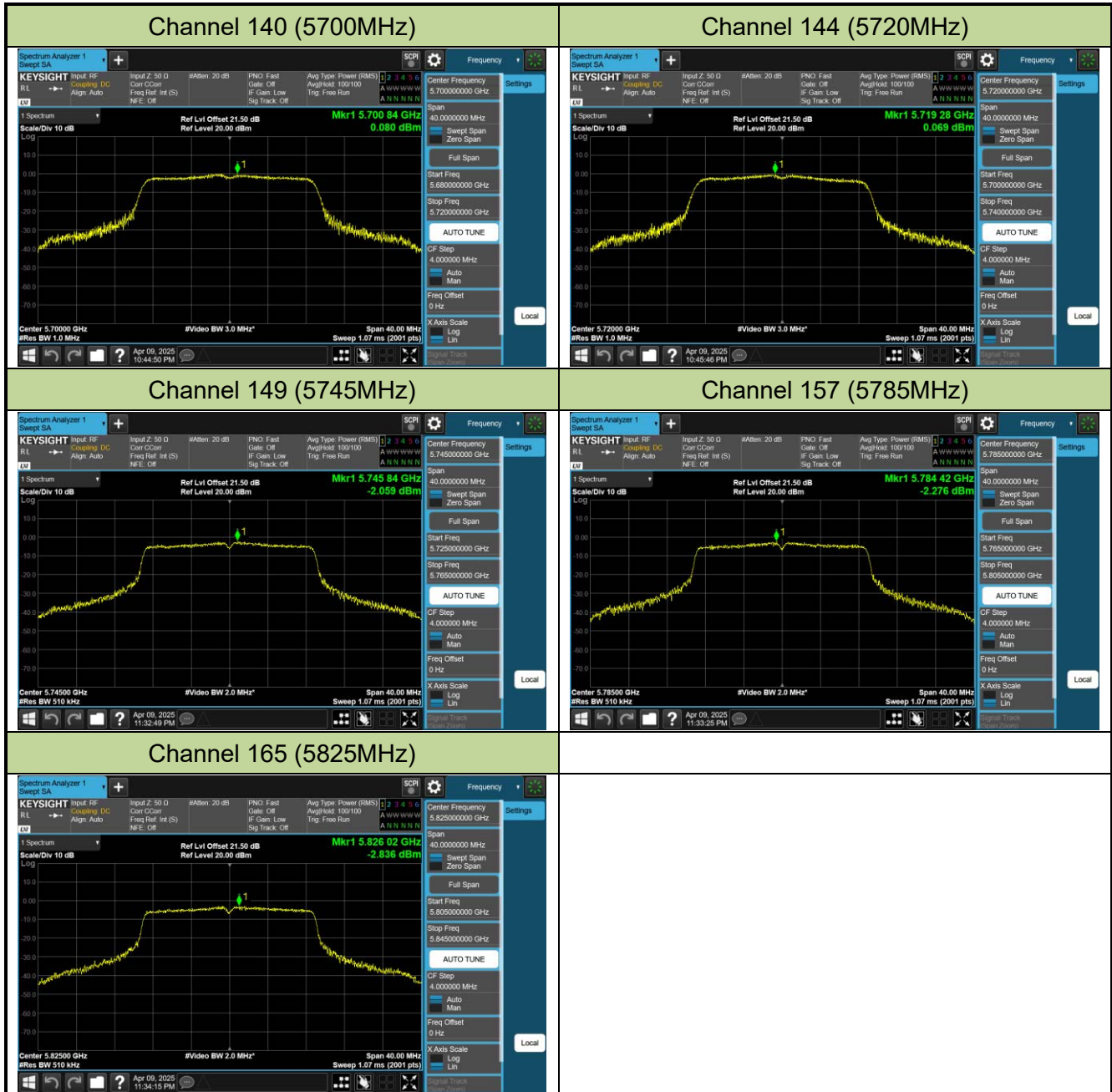


Channel 100 (5500MHz)



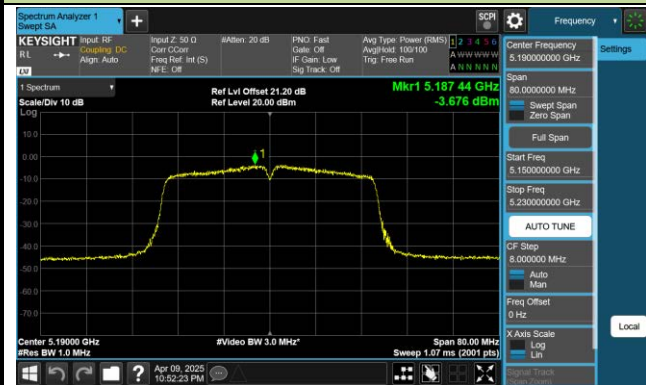
Channel 116 (5580MHz)





802.11ac-VHT40 Power Spectral Density - Ant 0

Channel 38 (5190MHz)



Channel 46 (5230MHz)



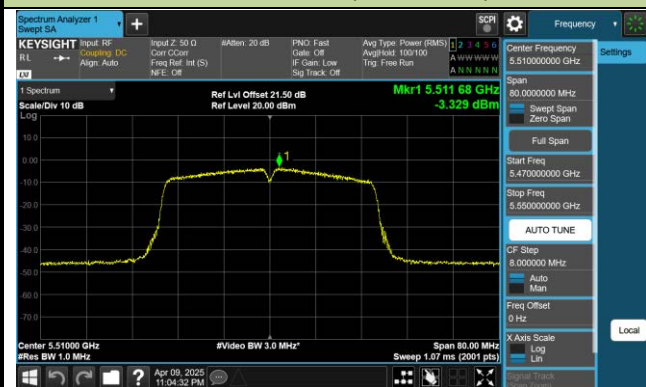
Channel 54 (5270MHz)



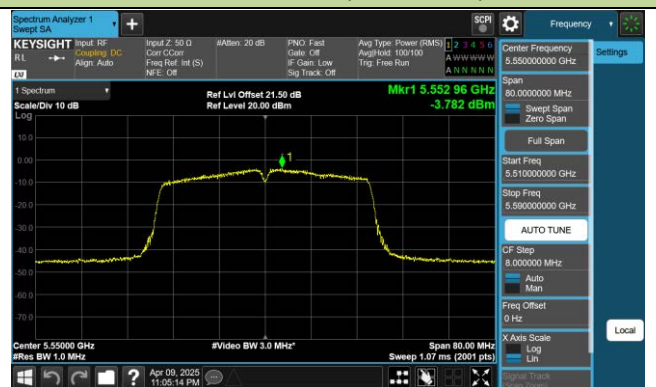
Channel 62 (5310MHz)



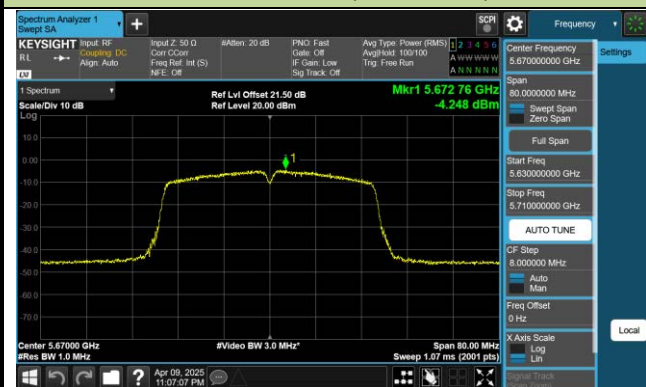
Channel 102 (5510MHz)



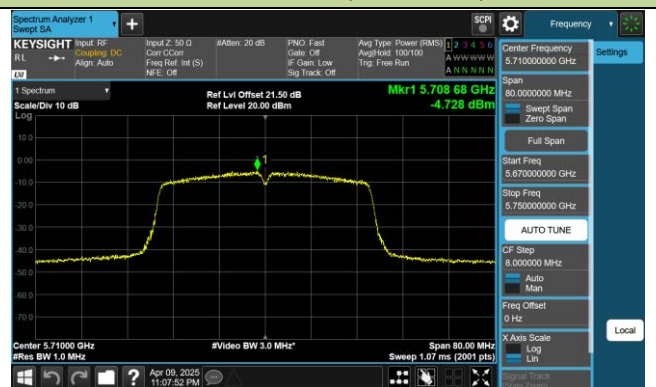
Channel 110 (5550MHz)

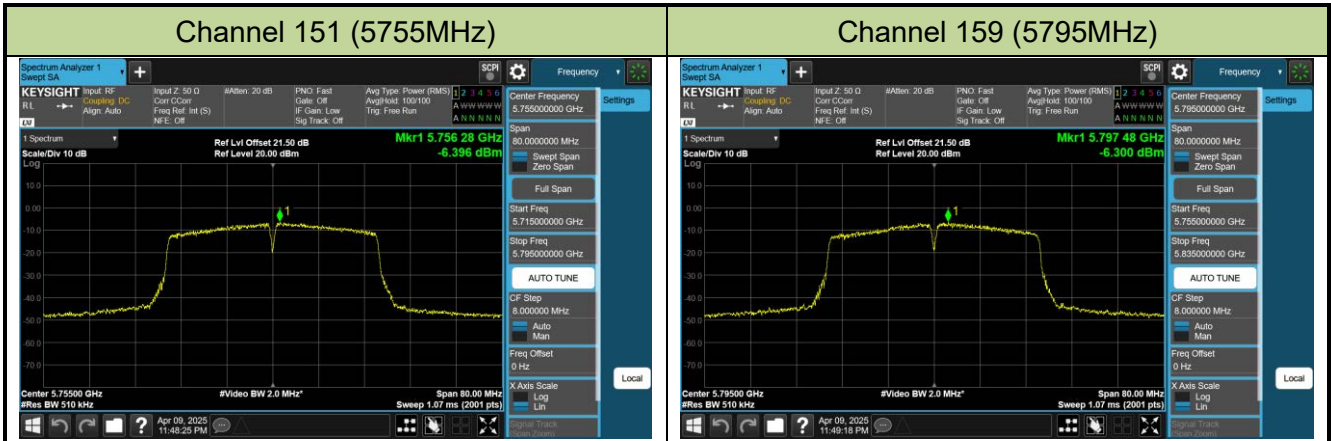


Channel 134 (5670MHz)



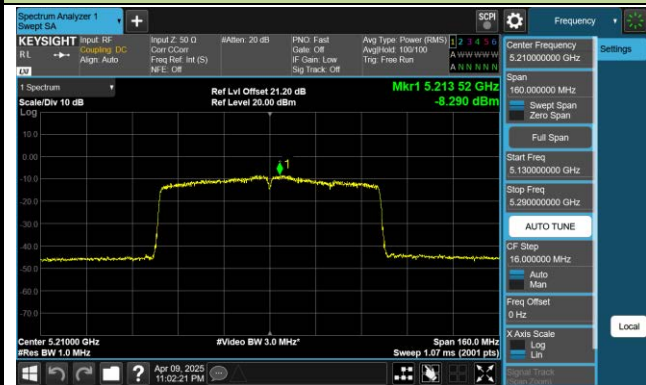
Channel 142 (5710MHz)





802.11ac-VHT80 Power Spectral Density - Ant 0

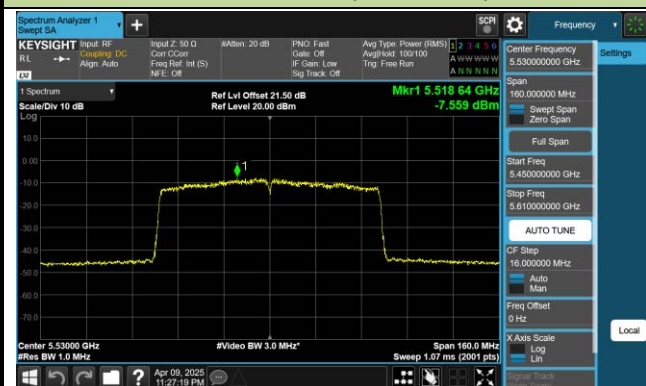
Channel 42 (5210MHz)



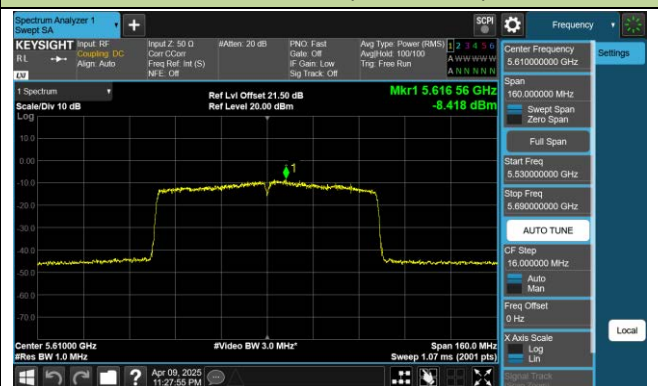
Channel 58 (5290MHz)



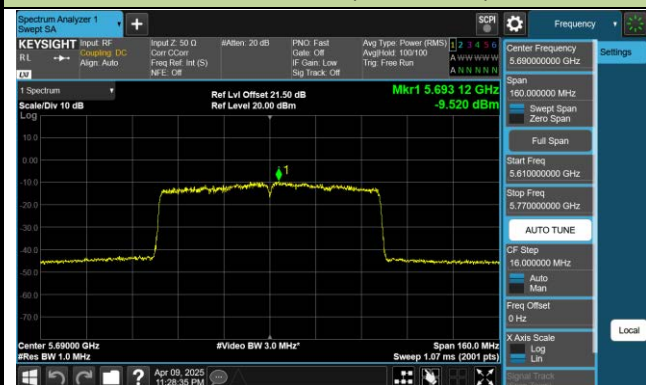
Channel 106 (5530MHz)



Channel 122 (5610MHz)



Channel 138 (5690MHz)



Channel 155 (5775MHz)

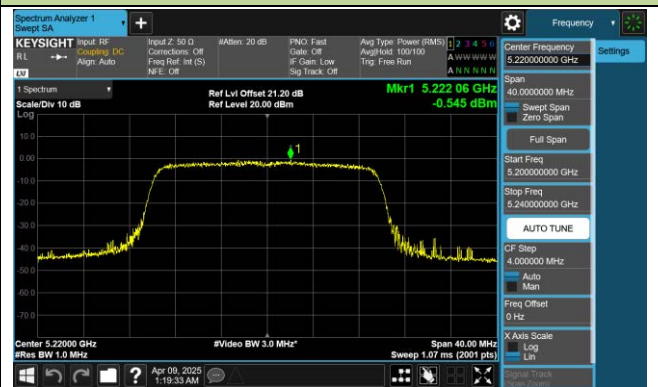


802.11ax-HE20 Power Spectral Density - Ant 0

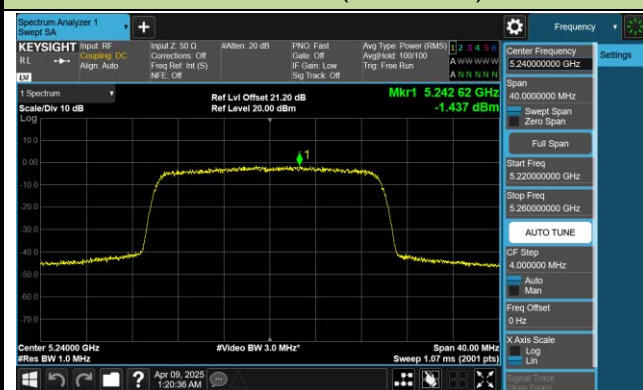
Channel 36 (5180MHz)



Channel 44 (5220MHz)



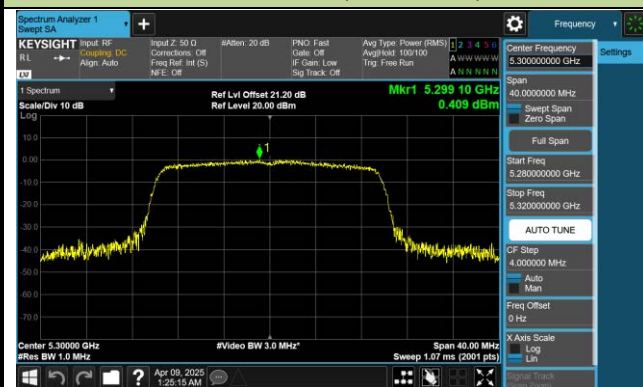
Channel 48 (5240MHz)



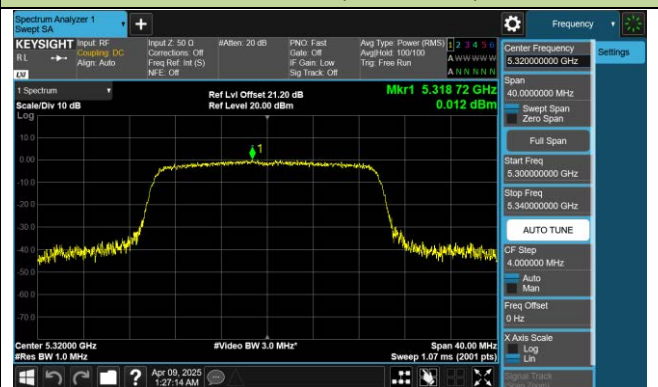
Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)

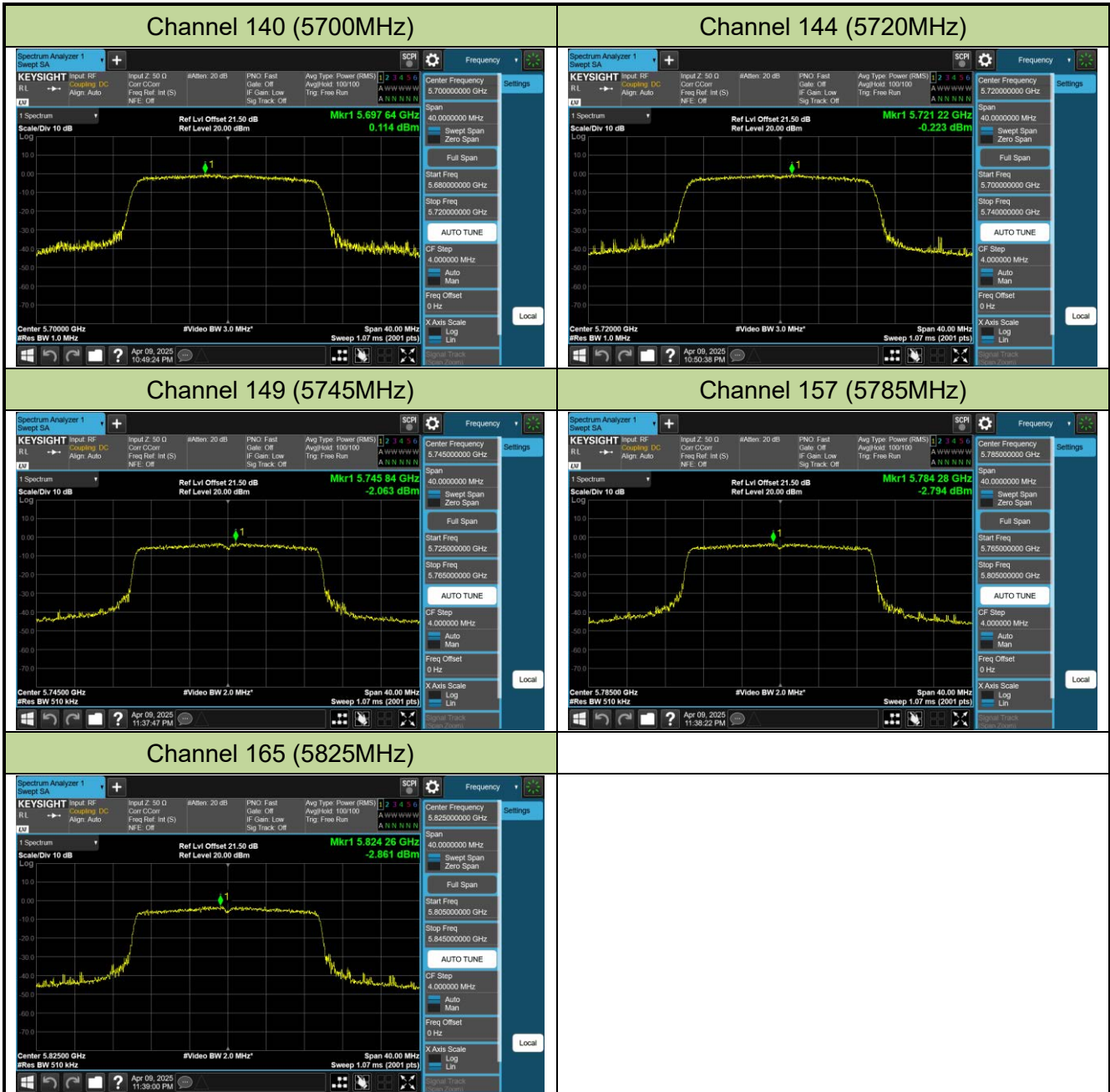


Channel 100 (5500MHz)



Channel 116 (5580MHz)



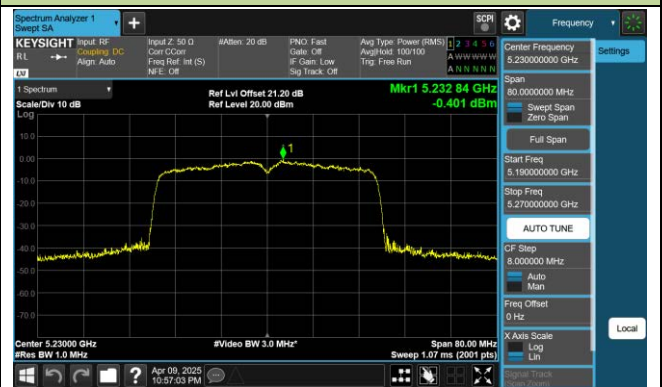


802.11ax-HE40 Power Spectral Density - Ant 0

Channel 38 (5190MHz)



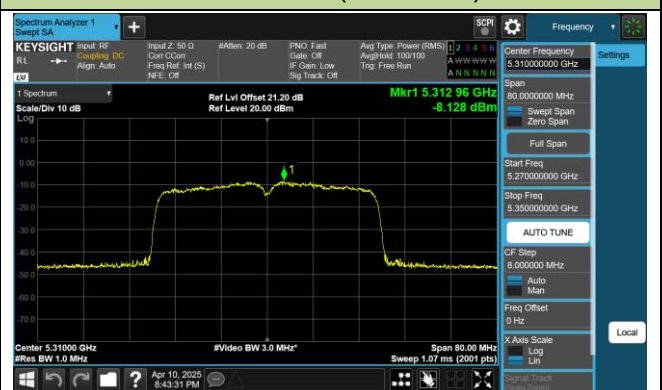
Channel 46 (5230MHz)



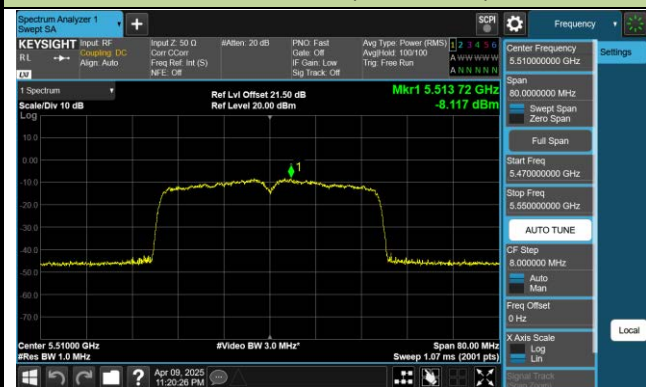
Channel 54 (5270MHz)



Channel 62 (5310MHz)



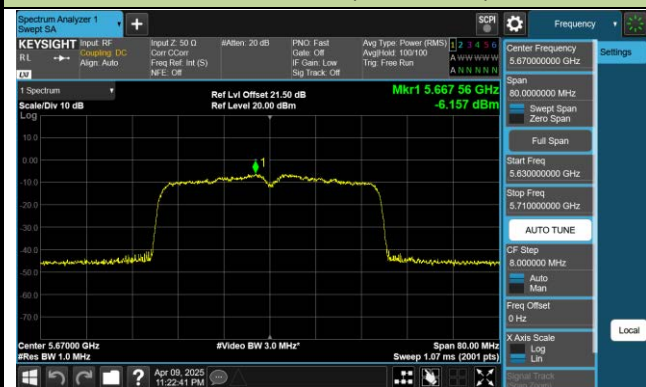
Channel 102 (5510MHz)



Channel 110 (5550MHz)

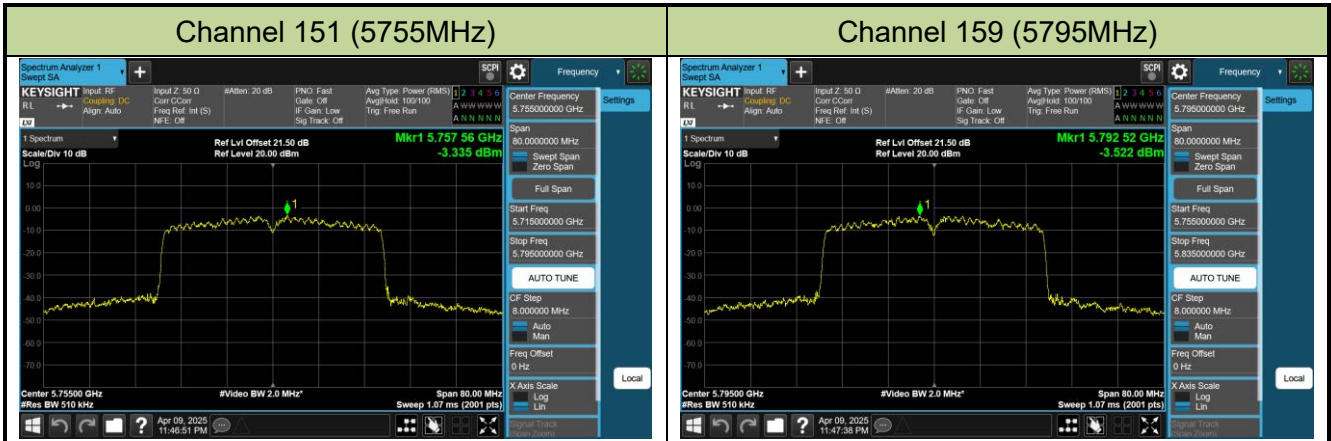


Channel 134 (5670MHz)



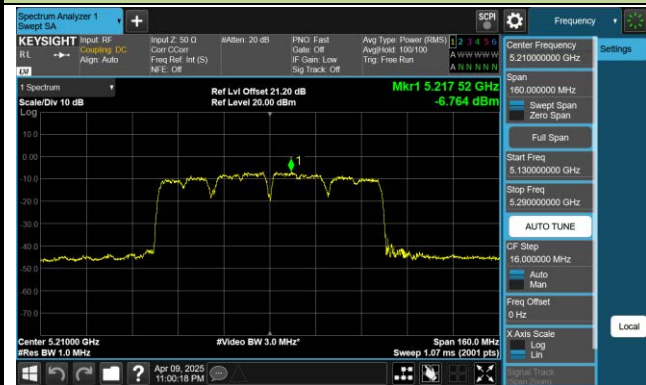
Channel 142 (5710MHz)



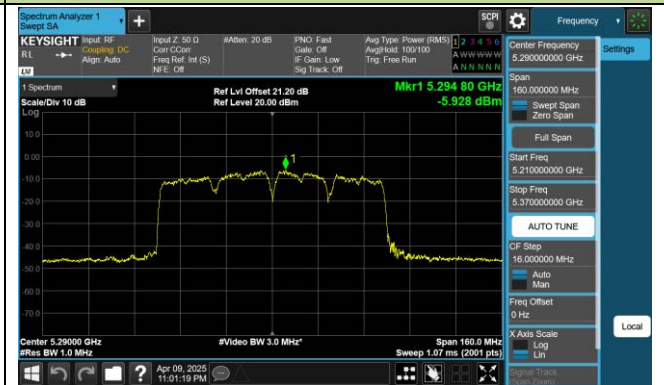


802.11ax-HE80 Power Spectral Density - Ant 0

Channel 42 (5210MHz)



Channel 58 (5290MHz)



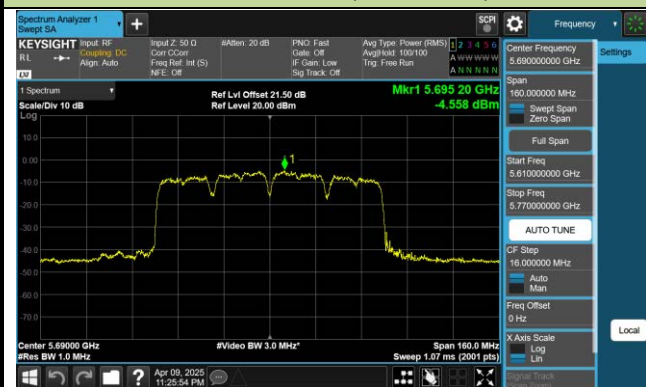
Channel 106 (5530MHz)



Channel 122 (5610MHz)



Channel 138 (5690MHz)

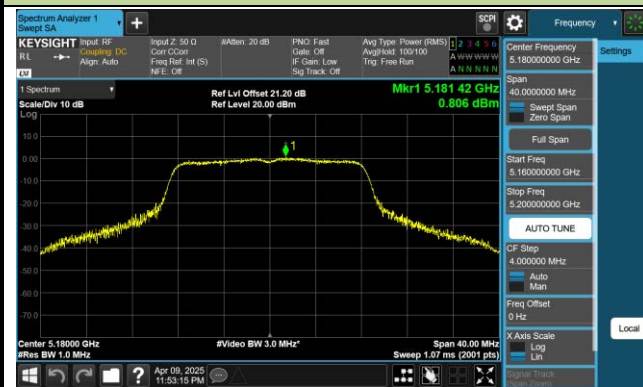


Channel 155 (5775MHz)

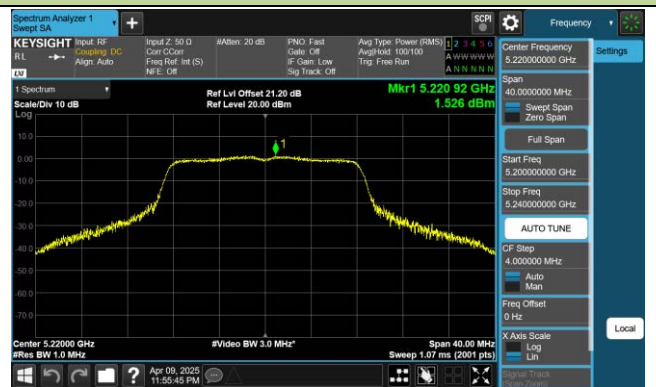


802.11a Power Spectral Density - Ant 1

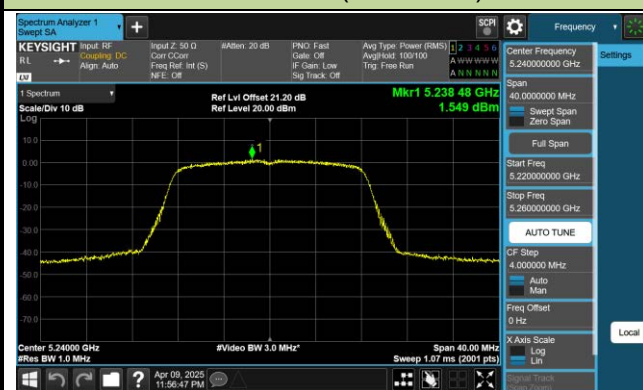
Channel 36 (5180MHz)



Channel 44 (5220MHz)



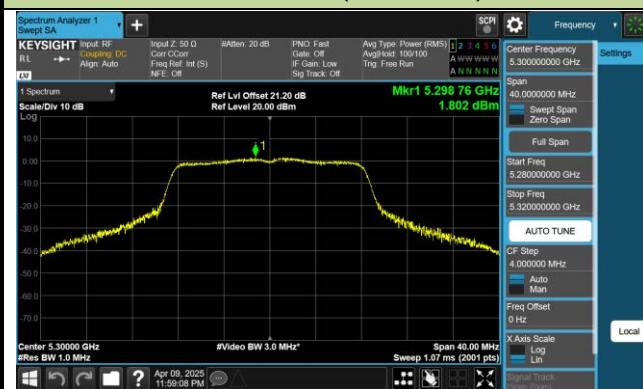
Channel 48 (5240MHz)



Channel 52 (5260MHz)



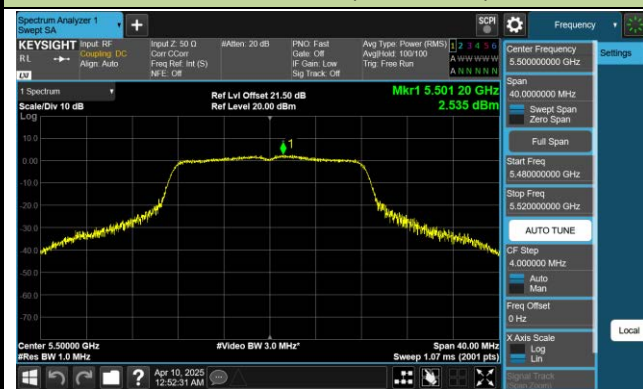
Channel 60 (5300MHz)



Channel 64 (5320MHz)

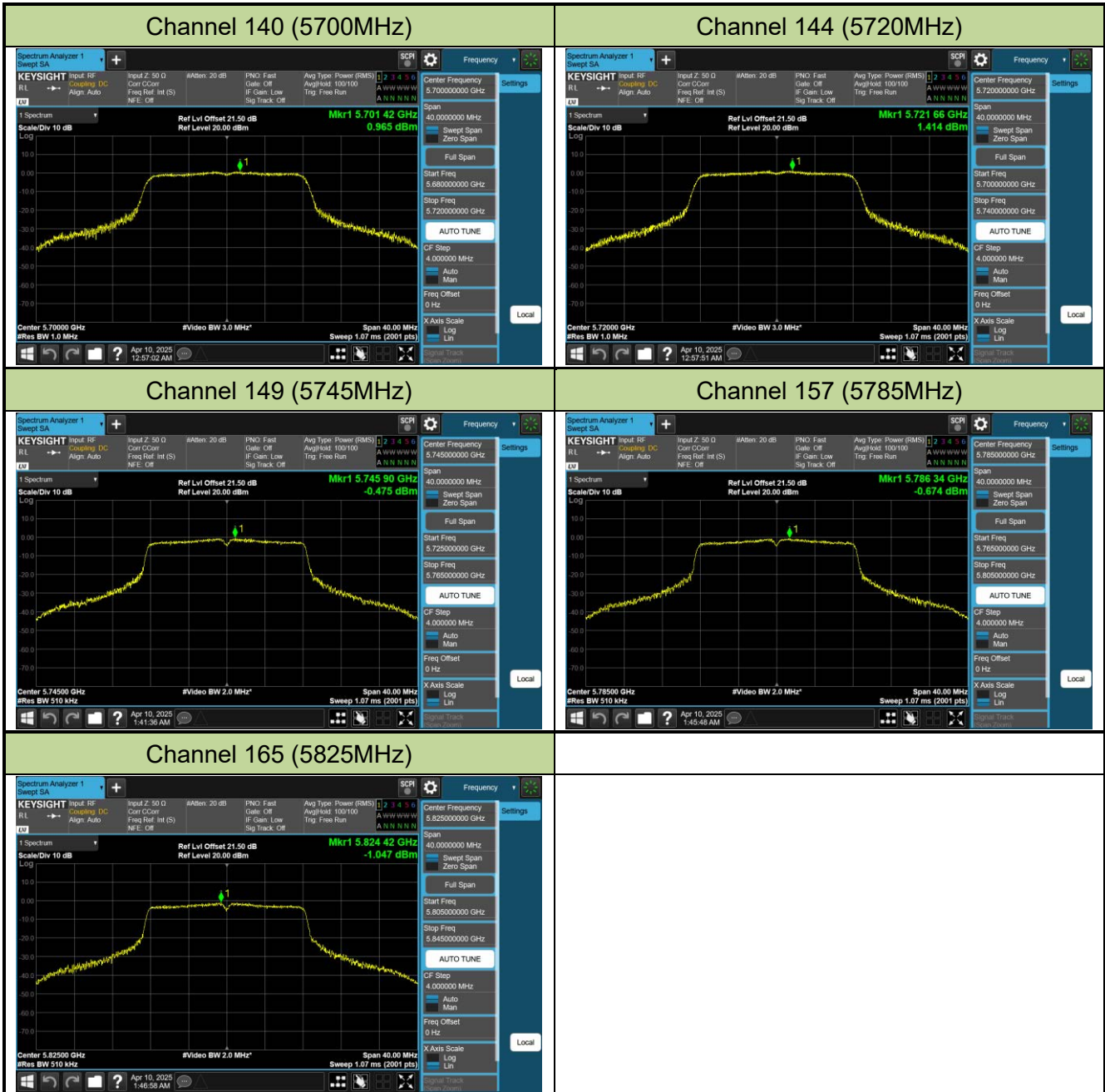


Channel 100 (5500MHz)



Channel 116 (5580MHz)





802.11ac-VHT20 Power Spectral Density - Ant 1

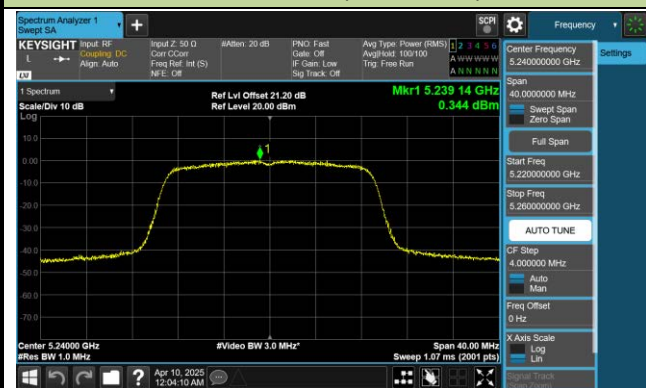
Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)



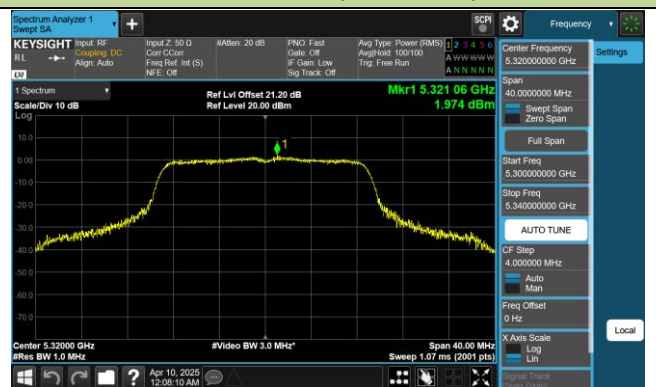
Channel 52 (5260MHz)



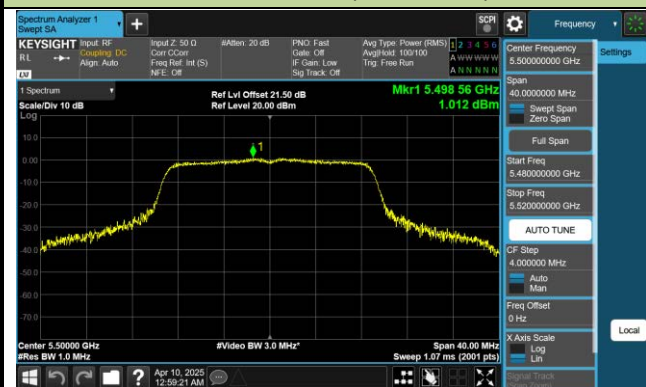
Channel 60 (5300MHz)



Channel 64 (5320MHz)



Channel 100 (5500MHz)



Channel 116 (5580MHz)



