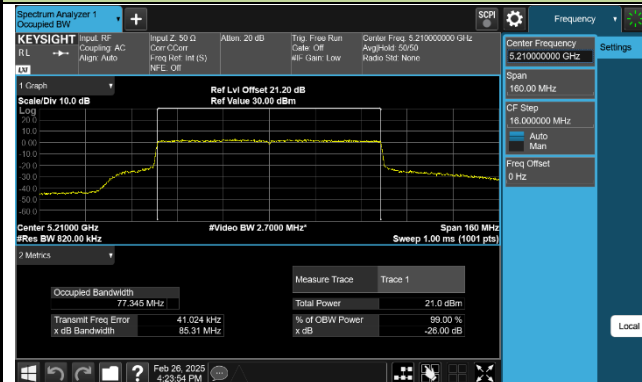


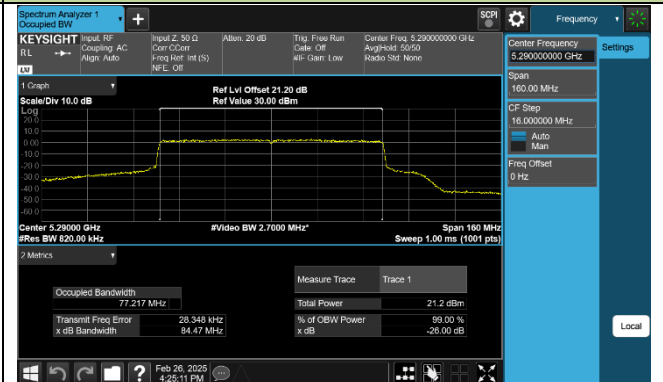


8802.11ax-HE80 26dB Bandwidth & 99% Bandwidth

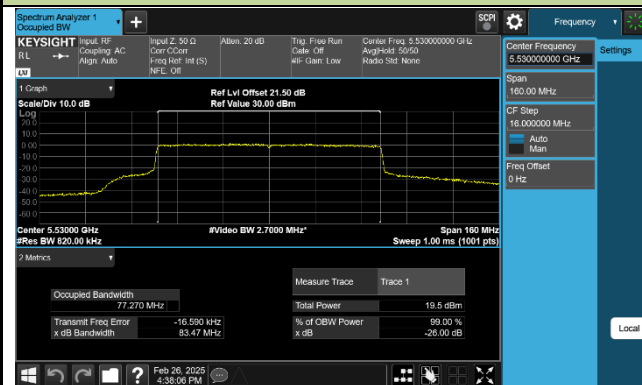
Channel 42 (5210MHz)



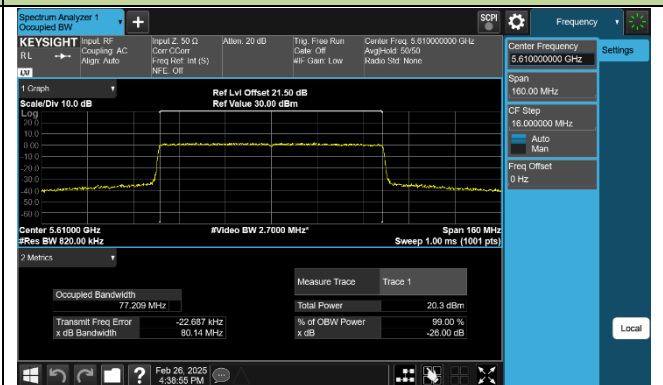
Channel 58 (5290MHz)



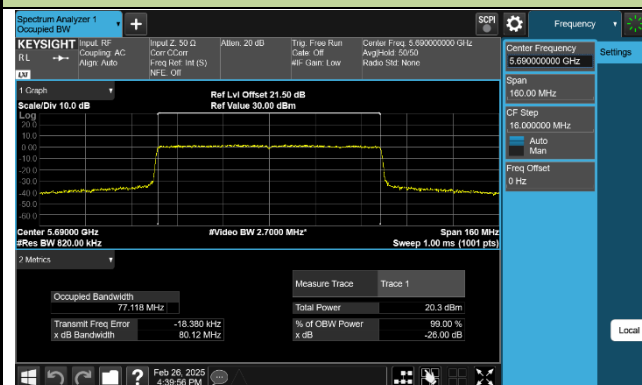
Channel 106 (5530MHz)



Channel 122 (5610MHz)



Channel 138 (5690MHz)

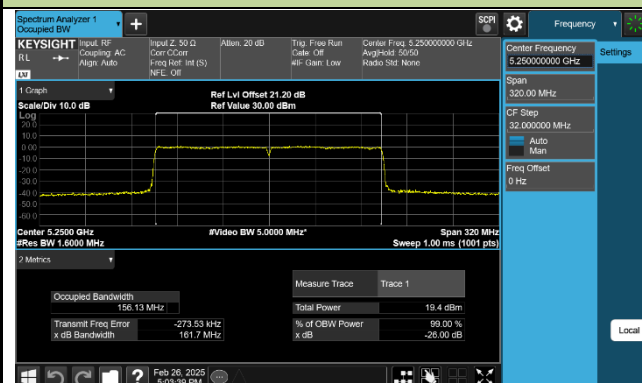


Channel 155 (5775MHz)

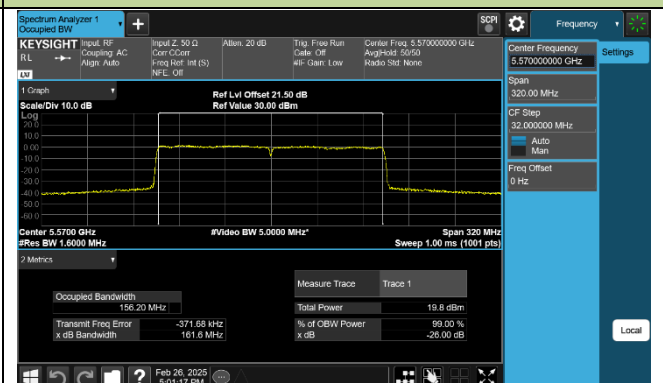


802.11ax-HE160 26dB Bandwidth & 99% Bandwidth

Channel 50 (5250MHz)

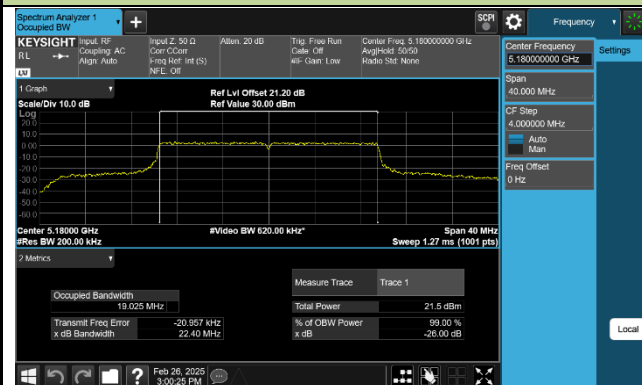


Channel 114 (5570MHz)

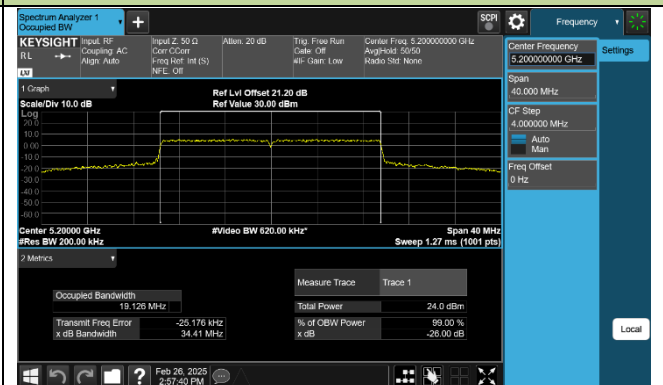


802.11be-EHT20 26dB Bandwidth & 99% Bandwidth

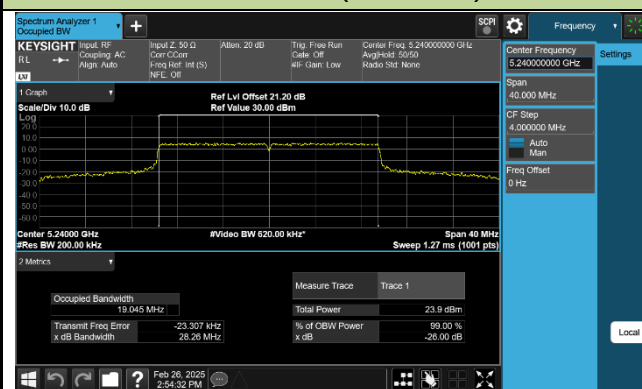
Channel 36 (5180MHz)



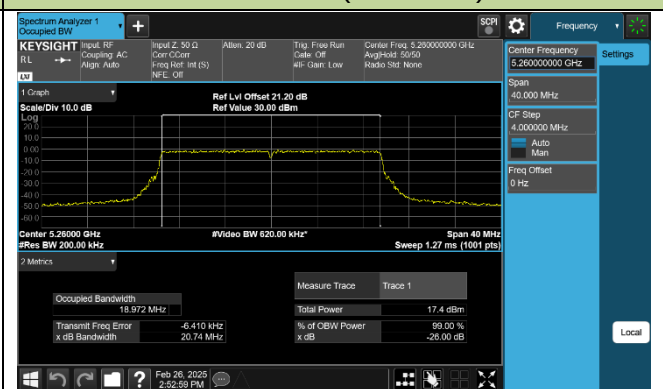
Channel 40 (5200MHz)



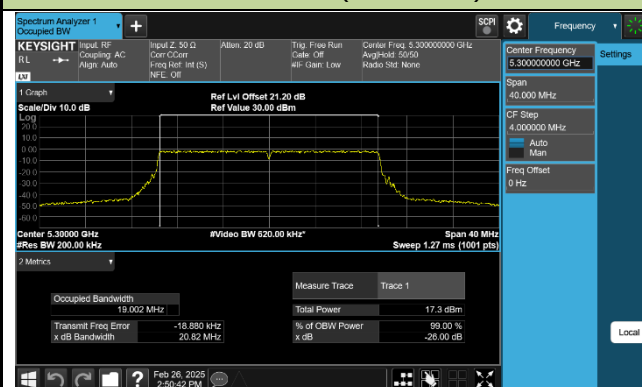
Channel 48 (5240MHz)



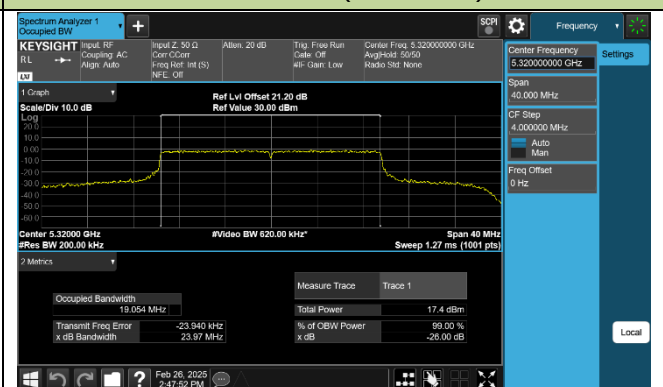
Channel 52 (5260MHz)



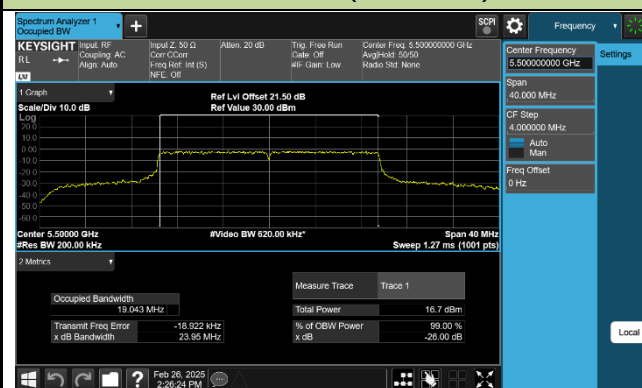
Channel 60 (5300MHz)



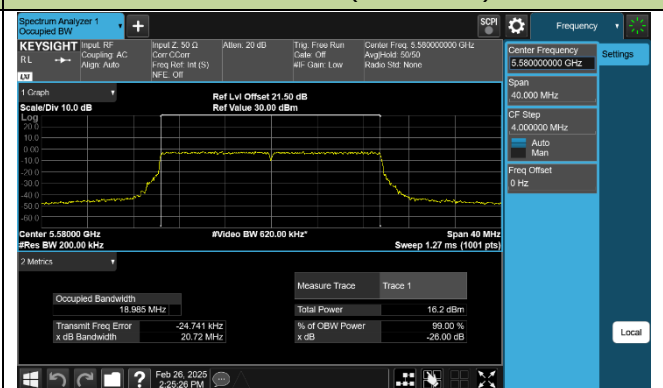
Channel 64 (5320MHz)

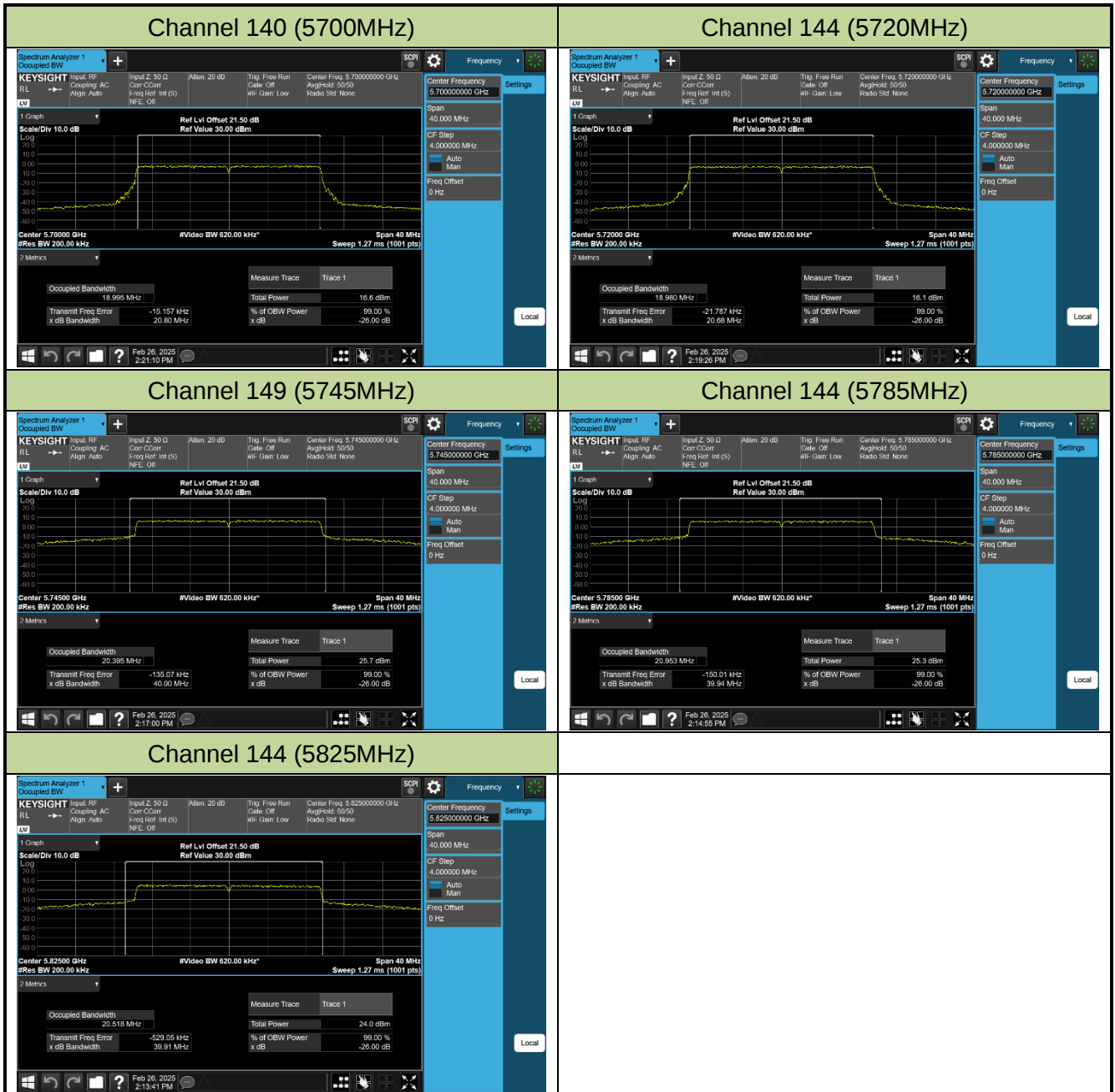


Channel 100 (5500MHz)



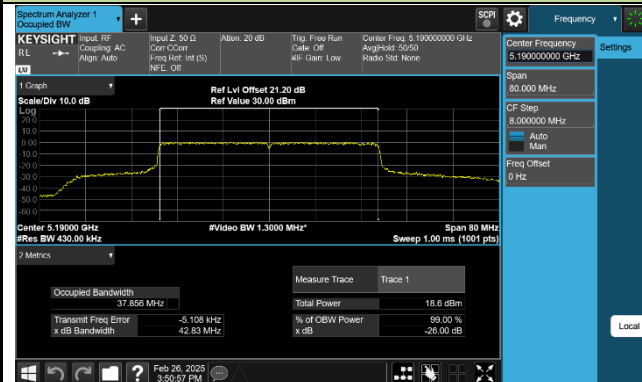
Channel 116 (5580MHz)



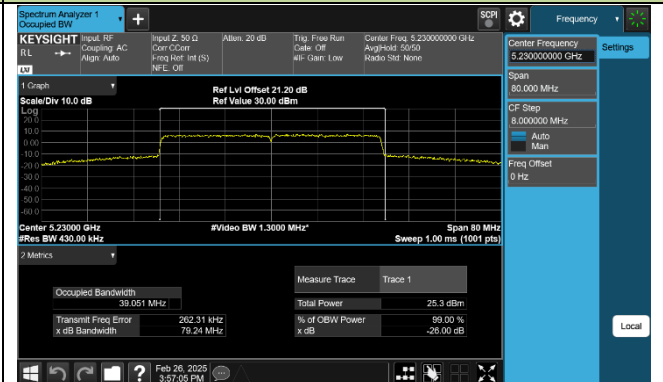


802.11be-EHT40 26dB Bandwidth & 99% Bandwidth

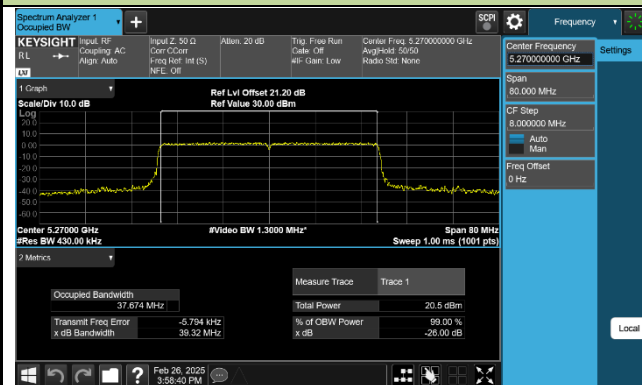
Channel 38 (5190MHz)



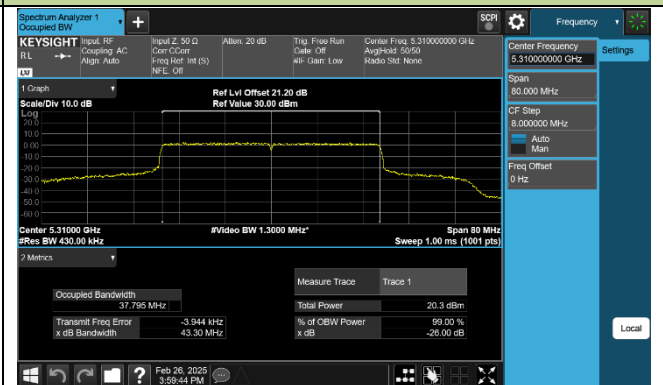
Channel 46 (5230MHz)



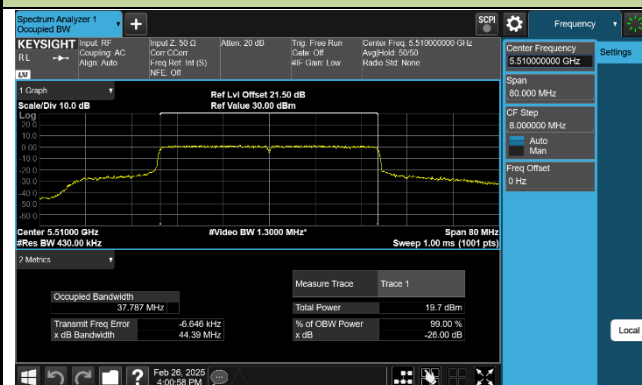
Channel 54 (5270MHz)



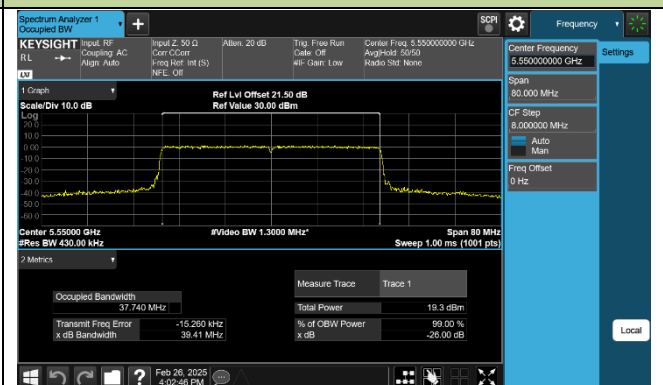
Channel 62 (5310MHz)



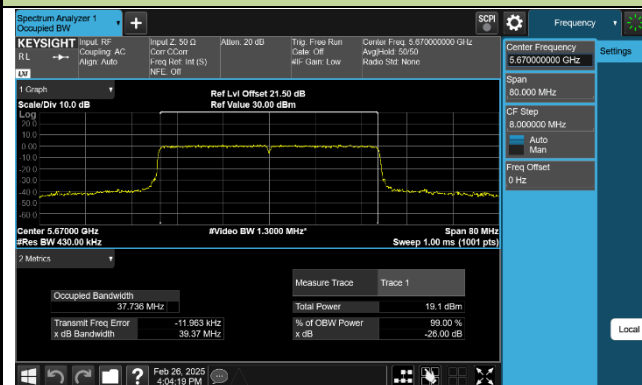
Channel 102 (5510MHz)



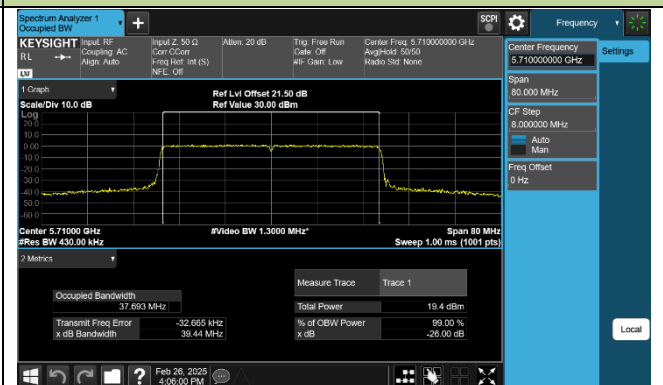
Channel 110 (5550MHz)



Channel 134 (5670MHz)



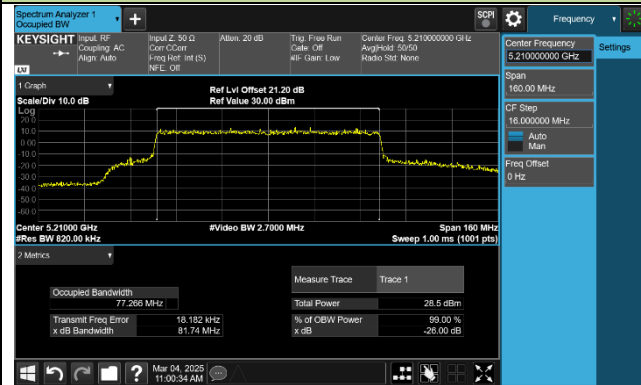
Channel 142 (5710MHz)



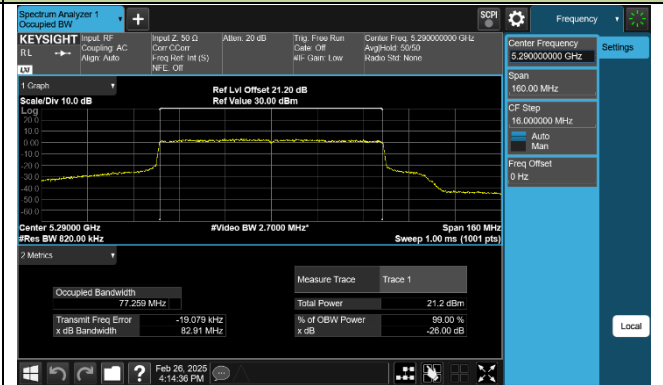


802.11be-EHT80 26dB Bandwidth & 99% Bandwidth

Channel 42 (5210MHz)



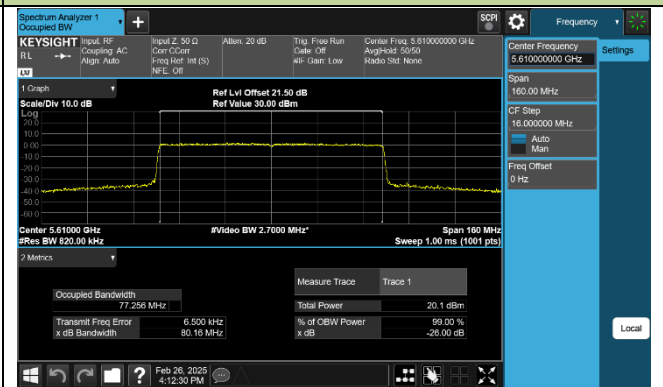
Channel 58 (5290MHz)



Channel 106 (5530MHz)



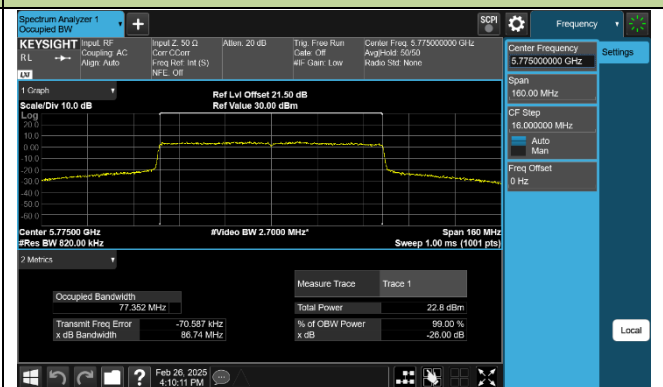
Channel 122 (5610MHz)



Channel 138 (5690MHz)

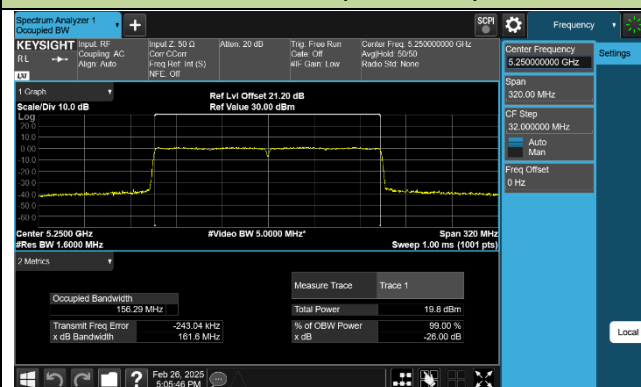


Channel 155 (5775MHz)

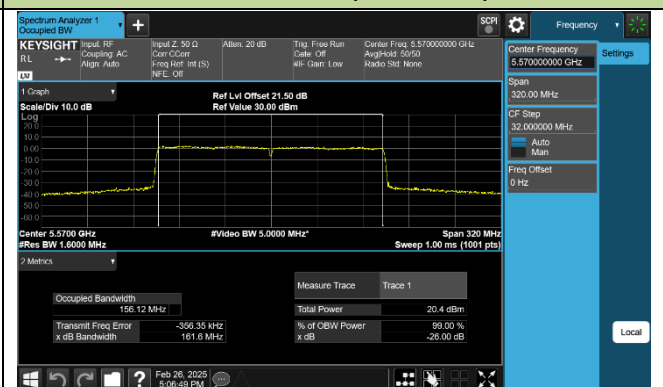


802.11be-EHT160 26dB Bandwidth & 99% Bandwidth

Channel 50 (5250MHz)



Channel 114 (5570MHz)



7.3. 6dB Bandwidth Measurement

7.3.1. Test Limit

The minimum 6dB bandwidth shall be at least 500 kHz.

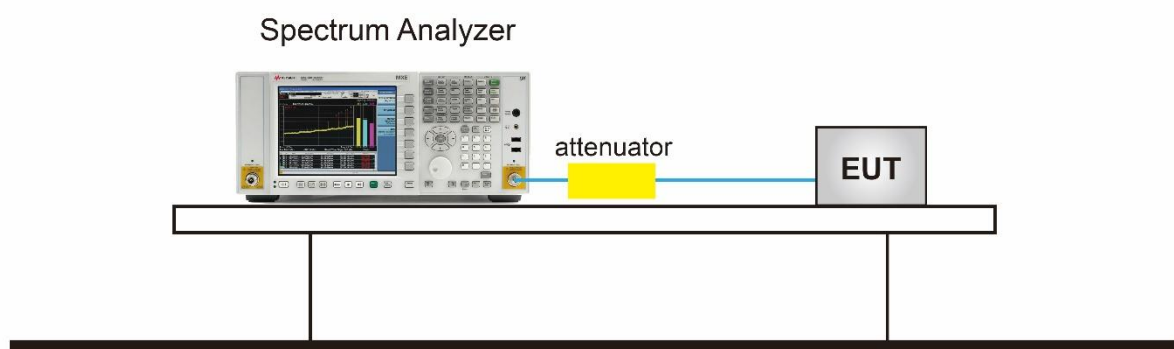
7.3.2. Test Procedure used

KDB 789033 D02v02r01- Section C.2

7.3.3. Test Setting

1. Set center frequency to the nominal EUT channel center frequency.
2. RBW = 100 kHz.
3. VBW $3 \times$ RBW.
4. Detector = Peak.
5. Trace mode = max hold.
6. Sweep = auto couple.
7. Allow the trace to stabilize.
8. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

7.3.4. Test Setup



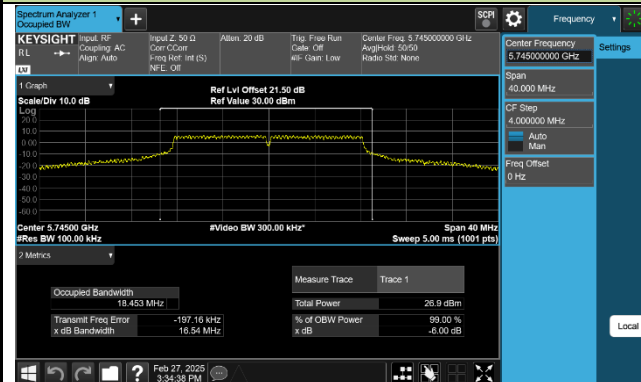
7.3.5.TestResult

Product	BE9700 Tri-Band Wi-Fi 7 Router	Test Engineer	Marvin
Test Site	SR6	Test Date	2025/2/27

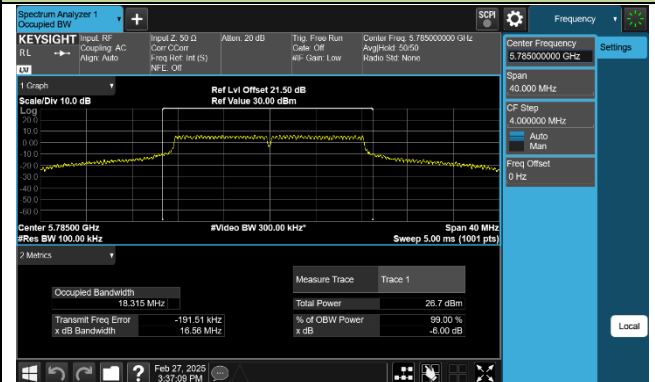
Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
Ant 0						
802.11a	6Mbps	149	5745	16.540	≥ 0.5	Pass
802.11a	6Mbps	157	5785	16.560	≥ 0.5	Pass
802.11a	6Mbps	165	5825	16.560	≥ 0.5	Pass
802.11ac-VHT20	MCS0	149	5745	17.810	≥ 0.5	Pass
802.11ac-VHT20	MCS0	157	5785	17.790	≥ 0.5	Pass
802.11ac-VHT20	MCS0	165	5825	17.820	≥ 0.5	Pass
802.11ac-VHT40	MCS0	151	5755	36.570	≥ 0.5	Pass
802.11ac-VHT40	MCS0	159	5795	36.570	≥ 0.5	Pass
802.11ac-VHT80	MCS0	155	5775	76.530	≥ 0.5	Pass
802.11ax-HE20	MCS0	149	5745	19.200	≥ 0.5	Pass
802.11ax-HE20	MCS0	157	5785	19.190	≥ 0.5	Pass
802.11ax-HE20	MCS0	165	5825	19.190	≥ 0.5	Pass
802.11ax-HE40	MCS0	151	5755	38.200	≥ 0.5	Pass
802.11ax-HE40	MCS0	159	5795	38.190	≥ 0.5	Pass
802.11ax-HE80	MCS0	155	5775	78.160	≥ 0.5	Pass
802.11be-EHT20	MCS0	149	5745	19.190	≥ 0.5	Pass
802.11be-EHT20	MCS0	157	5785	19.180	≥ 0.5	Pass
802.11be-EHT20	MCS0	165	5825	19.200	≥ 0.5	Pass
802.11be-EHT40	MCS0	151	5755	38.210	≥ 0.5	Pass
802.11be-EHT40	MCS0	159	5795	38.210	≥ 0.5	Pass
802.11be-EHT80	MCS0	155	5775	78.160	≥ 0.5	Pass

802.11a 6dB Bandwidth

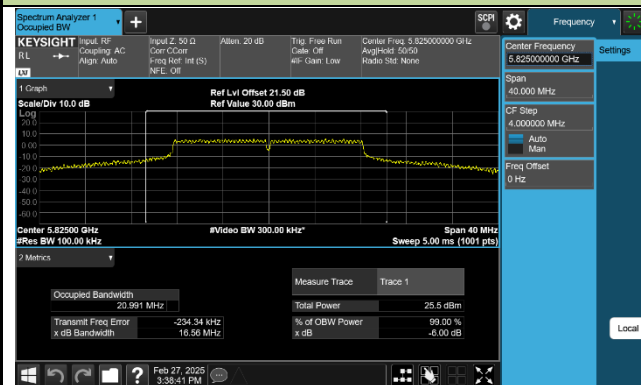
Channel 149 (5745MHz)



Channel 157 (5785MHz)

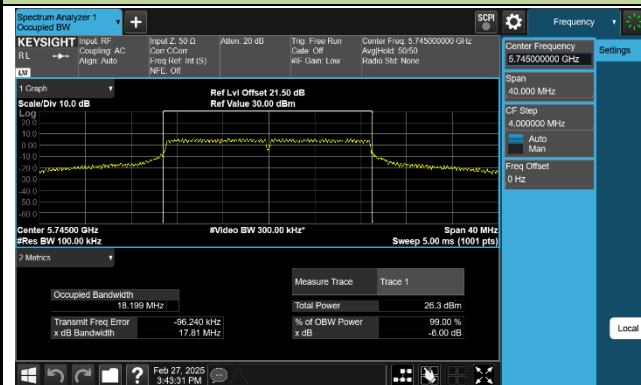


Channel 165 (5825MHz)

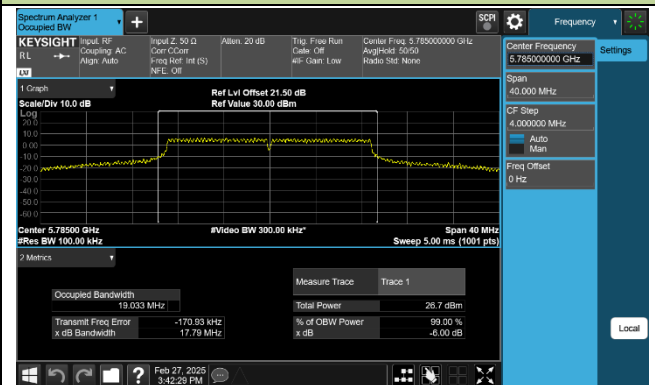


802.11ac-VHT20 6dB Bandwidth

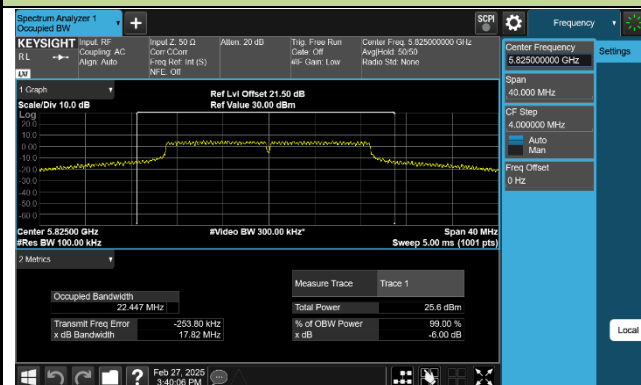
Channel 149 (5745MHz)



Channel 157 (5785MHz)

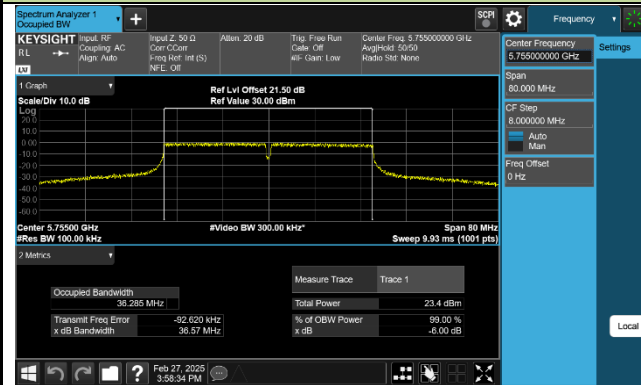


Channel 165 (5825MHz)

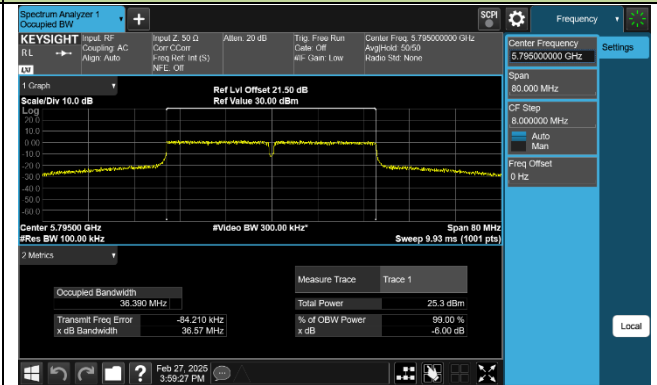


802.11ac-VHT40 6dB Bandwidth

Channel 151 (5755MHz)

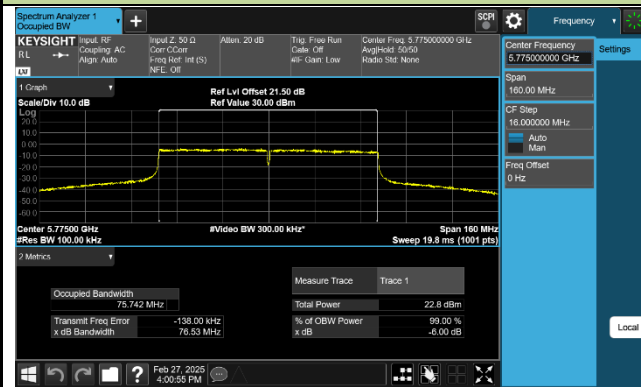


Channel 159 (5795MHz)



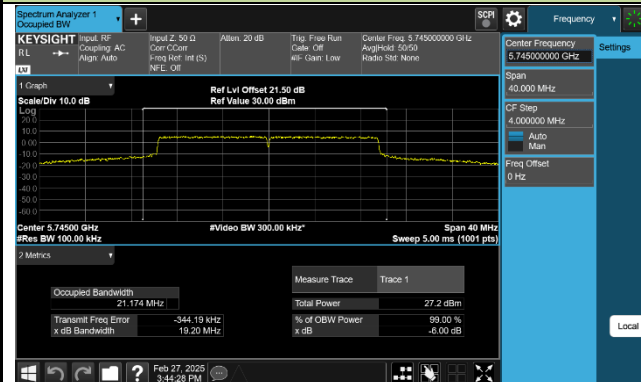
802.11ac-VHT80 6dB Bandwidth

Channel 155 (5775MHz)

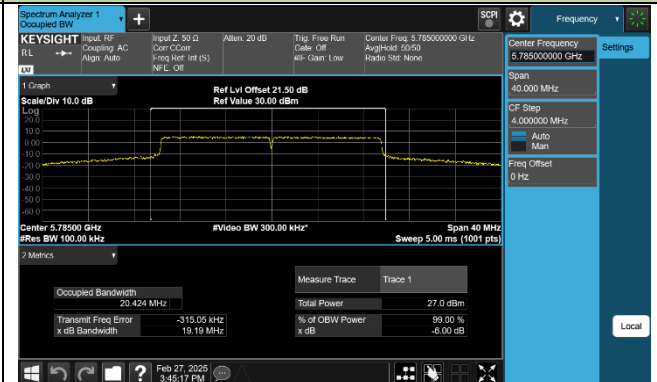


802.11ax-HE20 6dB Bandwidth

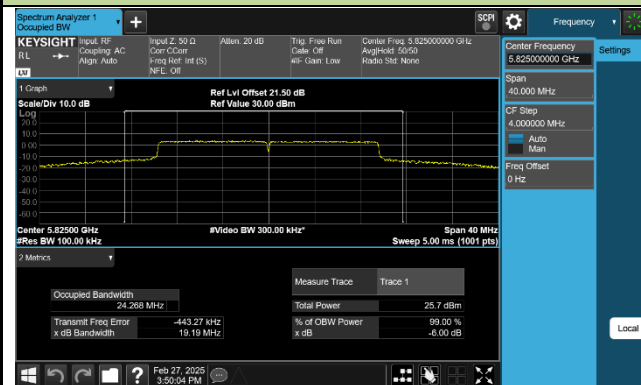
Channel 149 (5745MHz)



Channel 157 (5785MHz)

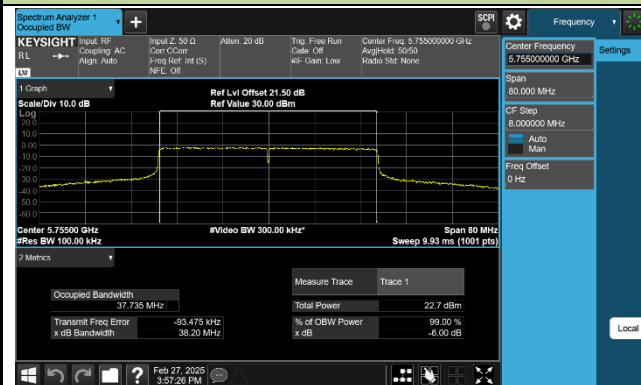


Channel 165 (5825MHz)

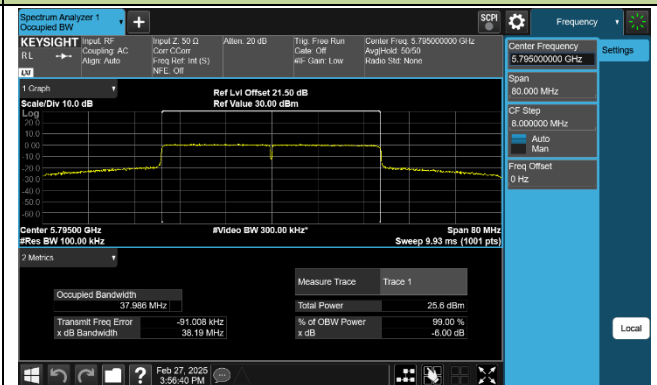


802.11ax-HE40 6dB Bandwidth

Channel 151 (5755MHz)



Channel 159 (5795MHz)



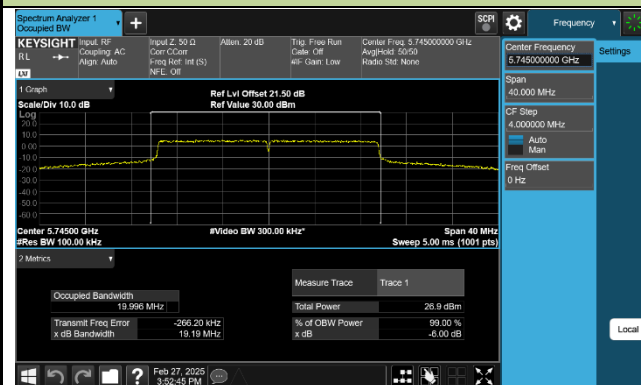
802.11ax-HE80 6dB Bandwidth

Channel 155 (5775MHz)

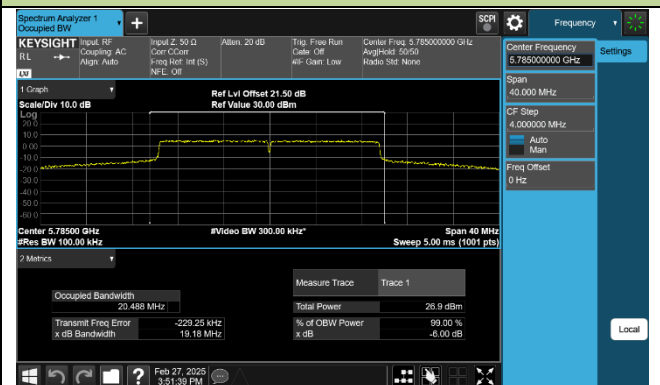


802.11be-EHT20 6dB Bandwidth

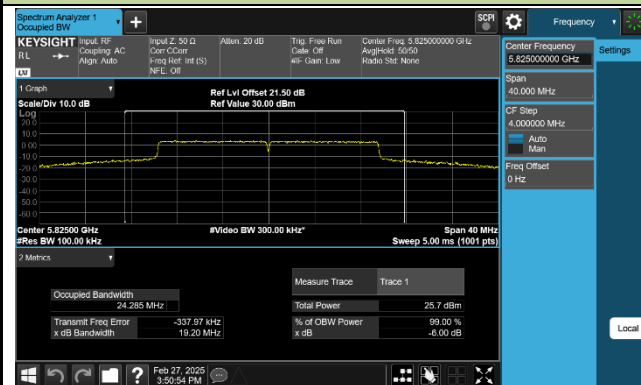
Channel 149 (5745MHz)



Channel 157 (5785MHz)

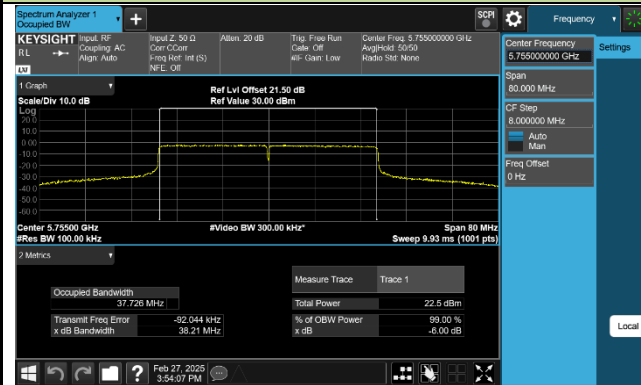


Channel 165 (5825MHz)

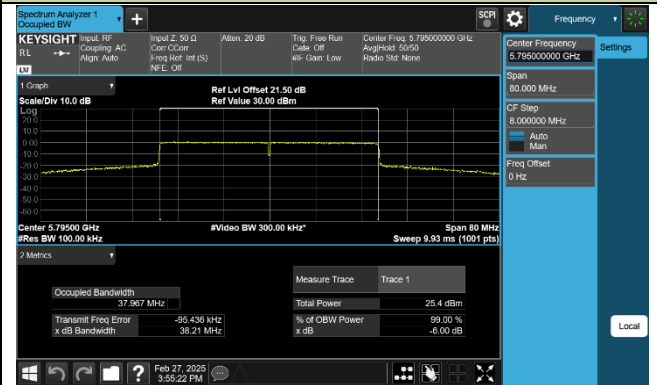


802.11be-EHT 40 6dB Bandwidth

Channel 151 (5755MHz)

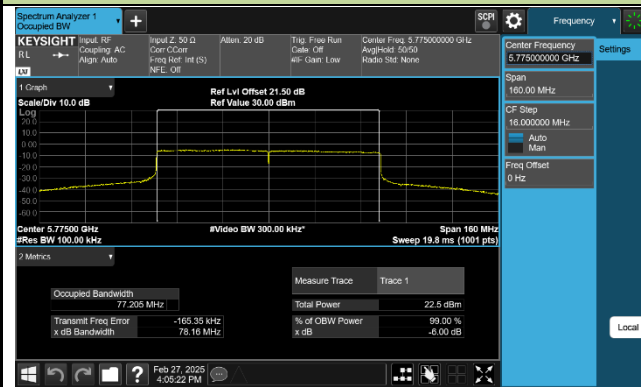


Channel 159 (5795MHz)



802.11be-EHT 80 6dB Bandwidth

Channel 155 (5775MHz)



7.4. Output Power Measurement

7.4.1. Test Limit

For the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi.

For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or $11 \text{ dBm} + 10 \log B$, where B is the 26 dB emission bandwidth in megahertz.

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W (30dBm).

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

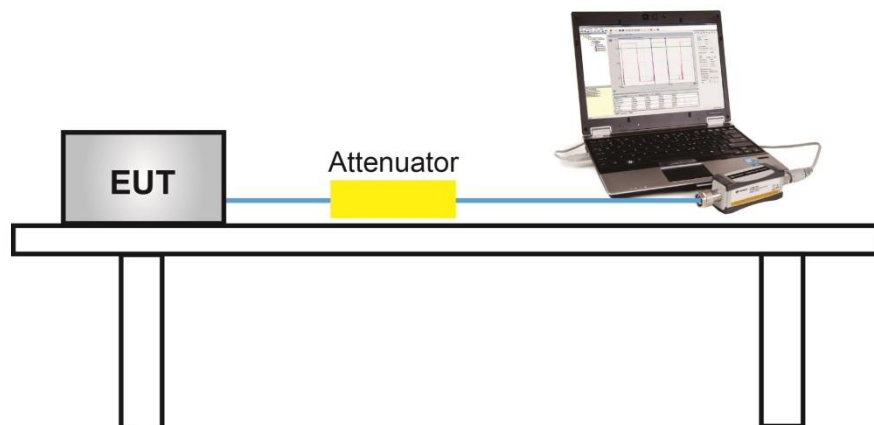
7.4.2. Test Procedure Used

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

7.4.3. 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.

7.4.4. Test Setup



7.4.5.Test Result

Product	BE9700 Tri-Band Wi-Fi 7 Router	Test Engineer	Marvin
Test Site	SR6	Test Date	2025/2/14~2025/2/27
Test Mode	CDD Mode		

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
11a	6Mbps	36	5180	21.77	21.74	24.77	≤ 30.00	Pass
11a	6Mbps	40	5200	24.18	23.75	26.98	≤ 30.00	Pass
11a	6Mbps	48	5240	24.04	23.55	26.81	≤ 30.00	Pass
11a	6Mbps	52	5260	16.74	16.87	19.82	≤ 23.98	Pass
11a	6Mbps	60	5300	16.64	16.89	19.78	≤ 23.98	Pass
11a	6Mbps	64	5320	16.60	16.99	19.81	≤ 23.98	Pass
11a	6Mbps	100	5500	16.09	16.60	19.36	≤ 23.35	Pass
11a	6Mbps	116	5580	16.83	16.47	19.66	≤ 23.35	Pass
11a	6Mbps	140	5700	16.50	16.18	19.35	≤ 23.35	Pass
11a	6Mbps	144	5720	16.55	15.69	19.15	≤ 22.88	Pass
11a	6Mbps	149	5745	26.94	26.08	29.54	≤ 30.00	Pass
11a	6Mbps	157	5785	26.21	25.84	29.04	≤ 30.00	Pass
11a	6Mbps	165	5825	25.19	24.80	28.01	≤ 30.00	Pass
11ac-VHT20	MCS0	36	5180	21.69	21.82	24.77	≤ 30.00	Pass
11ac-VHT20	MCS0	40	5200	24.13	23.95	27.05	≤ 30.00	Pass
11ac-VHT20	MCS0	48	5240	23.95	23.65	26.81	≤ 30.00	Pass
11ac-VHT20	MCS0	52	5260	16.72	17.04	19.89	≤ 23.98	Pass
11ac-VHT20	MCS0	60	5300	17.01	17.29	20.16	≤ 23.98	Pass
11ac-VHT20	MCS0	64	5320	16.53	17.05	19.81	≤ 23.98	Pass
11ac-VHT20	MCS0	100	5500	16.10	16.59	19.36	≤ 23.35	Pass
11ac-VHT20	MCS0	116	5580	16.93	16.41	19.69	≤ 23.35	Pass
11ac-VHT20	MCS0	140	5700	16.63	16.23	19.44	≤ 23.35	Pass
11ac-VHT20	MCS0	144	5720	16.73	15.65	19.23	≤ 22.92	Pass
11ac-VHT20	MCS0	149	5745	26.28	25.55	28.94	≤ 30.00	Pass
11ac-VHT20	MCS0	157	5785	26.18	25.95	29.08	≤ 30.00	Pass
11ac-VHT20	MCS0	165	5825	25.25	25.12	28.20	≤ 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
11ac-VHT40	MCS0	38	5190	19.94	20.08	23.02	≤ 30.00	Pass
11ac-VHT40	MCS0	46	5230	25.30	25.46	28.39	≤ 30.00	Pass
11ac-VHT40	MCS0	54	5270	20.07	20.02	23.06	≤ 23.98	Pass
11ac-VHT40	MCS0	62	5310	19.97	20.06	23.03	≤ 23.98	Pass
11ac-VHT40	MCS0	102	5510	18.98	19.22	22.11	≤ 23.35	Pass
11ac-VHT40	MCS0	110	5550	20.10	19.76	22.94	≤ 23.35	Pass
11ac-VHT40	MCS0	134	5670	18.39	18.74	21.58	≤ 23.35	Pass
11ac-VHT40	MCS0	142	5710	19.76	19.18	22.49	≤ 23.35	Pass
11ac-VHT40	MCS0	151	5755	23.52	23.78	26.66	≤ 30.00	Pass
11ac-VHT40	MCS0	159	5795	24.72	25.51	28.14	≤ 30.00	Pass
11ac-VHT80	MCS0	42	5210	21.29	21.33	24.32	≤ 30.00	Pass
11ac-VHT80	MCS0	58	5290	20.62	20.59	23.62	≤ 23.98	Pass
11ac-VHT80	MCS0	106	5530	19.29	19.77	22.55	≤ 23.98	Pass
11ac-VHT80	MCS0	122	5610	19.80	20.48	23.16	≤ 23.35	Pass
11ac-VHT80	MCS0	138	5690	19.69	20.51	23.13	≤ 23.35	Pass
11ac-VHT80	MCS0	155	5775	22.67	23.00	25.85	≤ 30.00	Pass
11ac-VHT160	MCS0	50	5250	19.63	19.43	22.54	≤ 23.98	Pass
11ac-VHT160	MCS0	114	5570	19.31	19.12	22.23	≤ 23.35	Pass
11ax-HE20	MCS0	36	5180	21.54	21.41	24.49	≤ 30.00	Pass
11ax-HE20	MCS0	40	5200	24.50	24.12	27.32	≤ 30.00	Pass
11ax-HE20	MCS0	48	5240	24.30	23.87	27.10	≤ 30.00	Pass
11ax-HE20	MCS0	52	5260	17.07	17.34	20.22	≤ 23.98	Pass
11ax-HE20	MCS0	60	5300	17.08	17.30	20.20	≤ 23.98	Pass
11ax-HE20	MCS0	64	5320	16.76	17.24	20.02	≤ 23.35	Pass
11ax-HE20	MCS0	100	5500	16.53	16.97	19.77	≤ 23.35	Pass
11ax-HE20	MCS0	116	5580	17.33	16.73	20.05	≤ 23.35	Pass
11ax-HE20	MCS0	140	5700	16.86	16.52	19.70	≤ 23.35	Pass
11ax-HE20	MCS0	144	5720	17.24	16.26	19.79	≤ 22.87	Pass
11ax-HE20	MCS0	149	5745	26.75	26.13	29.46	≤ 30.00	Pass
11ax-HE20	MCS0	157	5785	26.33	26.06	29.21	≤ 30.00	Pass
11ax-HE20	MCS0	165	5825	25.44	25.10	28.28	≤ 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	19.15	19.20	22.19	≤ 30.00	Pass
11ax-HE40	MCS0	46	5230	25.33	25.36	28.36	≤ 30.00	Pass
11ax-HE40	MCS0	54	5270	20.37	20.29	23.34	≤ 23.98	Pass
11ax-HE40	MCS0	62	5310	19.49	19.54	22.53	≤ 23.98	Pass
11ax-HE40	MCS0	102	5510	18.09	18.40	21.26	≤ 23.35	Pass
11ax-HE40	MCS0	110	5550	19.87	19.52	22.71	≤ 23.35	Pass
11ax-HE40	MCS0	134	5670	19.30	19.55	22.44	≤ 23.35	Pass
11ax-HE40	MCS0	142	5710	19.97	19.45	22.73	≤ 23.35	Pass
11ax-HE40	MCS0	151	5755	22.62	22.64	25.64	≤ 30.00	Pass
11ax-HE40	MCS0	159	5795	24.90	25.63	28.29	≤ 30.00	Pass
11ax-HE80	MCS0	42	5210	21.00	21.06	24.04	≤ 30.00	Pass
11ax-HE80	MCS0	58	5290	20.59	21.07	23.85	≤ 23.98	Pass
11ax-HE80	MCS0	106	5530	20.00	19.57	22.80	≤ 23.35	Pass
11ax-HE80	MCS0	122	5610	19.45	20.37	22.94	≤ 23.35	Pass
11ax-HE80	MCS0	138	5690	19.67	20.46	23.09	≤ 23.35	Pass
11ax-HE80	MCS0	155	5775	22.56	22.93	25.76	≤ 30.00	Pass
11ax-HE160	MCS0	50	5250	18.83	19.17	22.01	≤ 23.98	Pass
11ax-HE160	MCS0	114	5570	19.04	19.15	22.11	≤ 23.35	Pass
11be-EHT20	MCS0	36	5180	21.65	21.75	24.71	≤ 30.00	Pass
11be-EHT20	MCS0	40	5200	24.51	24.07	27.31	≤ 30.00	Pass
11be-EHT20	MCS0	48	5240	24.35	23.87	27.13	≤ 30.00	Pass
11be-EHT20	MCS0	52	5260	17.16	17.30	20.24	≤ 23.98	Pass
11be-EHT20	MCS0	60	5300	16.98	17.29	20.15	≤ 23.98	Pass
11be-EHT20	MCS0	64	5320	17.19	17.49	20.35	≤ 23.98	Pass
11be-EHT20	MCS0	100	5500	16.39	16.96	19.69	≤ 23.35	Pass
11be-EHT20	MCS0	116	5580	17.05	16.60	19.84	≤ 23.35	Pass
11be-EHT20	MCS0	140	5700	17.04	16.67	19.87	≤ 23.35	Pass
11be-EHT20	MCS0	144	5720	17.21	16.27	19.78	≤ 22.86	Pass
11be-EHT20	MCS0	149	5745	27.04	26.35	29.72	≤ 30.00	Pass
11be-EHT20	MCS0	157	5785	26.34	26.02	29.19	≤ 30.00	Pass
11be-EHT20	MCS0	165	5825	25.61	25.32	28.48	≤ 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
11be-EHT40	MCS0	38	5190	18.66	18.69	21.69	≤ 30.00	Pass
11be-EHT40	MCS0	46	5230	25.30	25.39	28.36	≤ 30.00	Pass
11be-EHT40	MCS0	54	5270	20.31	20.32	23.33	≤ 23.98	Pass
11be-EHT40	MCS0	62	5310	20.23	20.27	23.26	≤ 23.98	Pass
11be-EHT40	MCS0	102	5510	17.77	17.63	20.71	≤ 23.35	Pass
11be-EHT40	MCS0	110	5550	19.84	19.51	22.69	≤ 23.35	Pass
11be-EHT40	MCS0	134	5670	18.89	19.28	22.10	≤ 23.35	Pass
11be-EHT40	MCS0	142	5710	19.90	19.42	22.68	≤ 23.35	Pass
11be-EHT40	MCS0	151	5755	22.73	22.62	25.69	≤ 30.00	Pass
11be-EHT40	MCS0	159	5795	25.05	25.48	28.28	≤ 30.00	Pass
11be-EHT80	MCS0	42	5210	21.12	21.11	24.13	≤ 30.00	Pass
11be-EHT80	MCS0	58	5290	20.61	21.20	23.93	≤ 23.98	Pass
11be-EHT80	MCS0	106	5530	19.99	20.31	23.16	≤ 23.35	Pass
11be-EHT80	MCS0	122	5610	19.49	20.44	23.00	≤ 23.35	Pass
11be-EHT80	MCS0	138	5690	19.61	20.38	23.02	≤ 23.35	Pass
11be-EHT80	MCS0	155	5775	22.31	22.71	25.52	≤ 30.00	Pass
11be-EHT160	MCS0	50	5250	19.14	19.52	22.34	≤ 23.98	Pass
11be-EHT160	MCS0	114	5570	18.78	19.17	21.99	≤ 23.35	Pass

Note 1:

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

Note 2:

For 5250- 5350MHz Band: Average Power Limit (dBm) = 23.98 dBm.

For 5470 - 5725MHz Band: Average Power Limit (dBm) = 23.35 dBm.

For 5150 - 5250MHz and 5725 - 5850MHz Bands: Average Power Limit (dBm) = 30 dBm.

For Channel 144 (5720MHz), Average Power Limit (dBm) = $11 + 10 \cdot \log(5\text{MHz} + \text{BW}_{26\text{dBc}}/2)$

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.

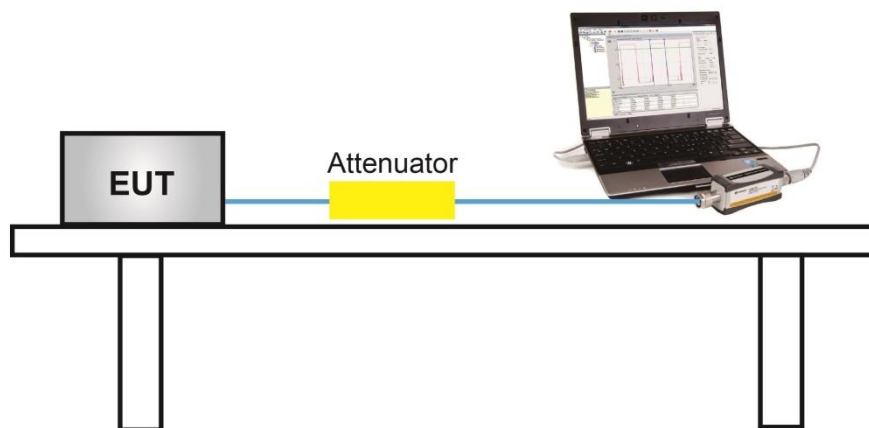
7.5.2. Test Procedure Used

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

Device supports TPC mechanism, details refer to the operational description.

7.6. Power Spectral Density Measurement

7.6.1. Test Limit

For 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.

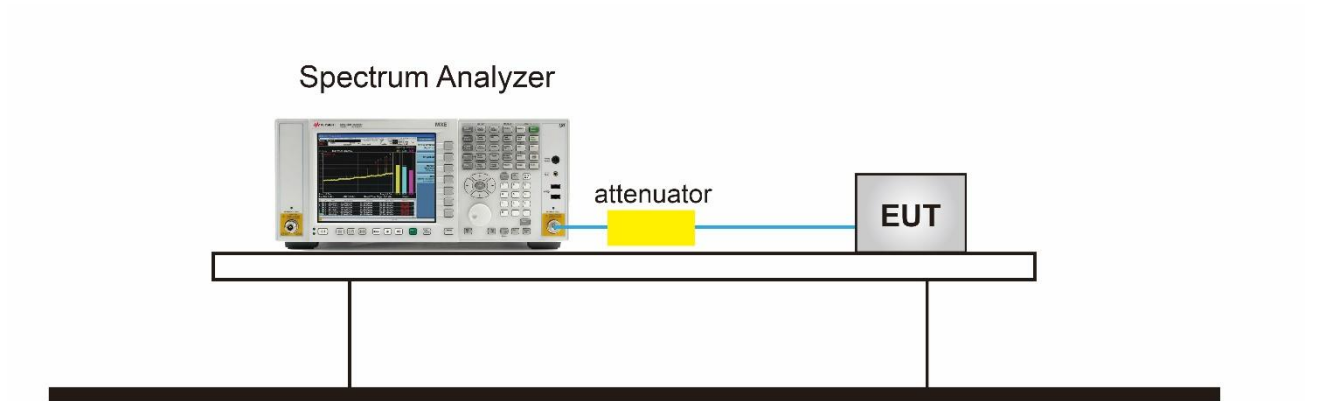
7.6.2. Test Procedure Used

KDB 789033 D02v02r01-SectionF

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,
RBW = 510 kHz
4. VBW = 3MHz
5. Number of sweep points $\geq 2 \times (\text{span} / \text{RBW})$
6. Detector = power averaging (Average)
7. Sweep time = auto
8. Trigger = free run
9. Use the peak search function on the instrument to find the peak of the spectrum and record its value.
10. 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	BE9700 Tri-Band Wi-Fi 7 Router	Test Engineer	Marvin
Test Site	SR5	Test Date	2025/2/14~2025/2/27
Mode	Power Spectral Density (U-NII- 1/-2a / -2c) CDD Mode		

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	10.970	10.427	98.55%	13.781	≤ 15.41	Pass
11a	6Mbps	40	5200	11.494	12.871	98.55%	15.311	≤ 15.41	Pass
11a	6Mbps	48	5240	11.968	12.383	98.55%	15.254	≤ 15.41	Pass
11a	6Mbps	52	5260	4.637	5.679	98.55%	8.263	≤ 8.61	Pass
11a	6Mbps	60	5300	4.938	5.792	98.55%	8.460	≤ 8.61	Pass
11a	6Mbps	64	5320	4.774	5.504	98.55%	8.228	≤ 8.61	Pass
11a	6Mbps	100	5500	3.675	5.196	98.55%	7.575	≤ 7.75	Pass
11a	6Mbps	116	5580	4.460	4.813	98.55%	7.714	≤ 7.75	Pass
11a	6Mbps	140	5700	4.515	4.722	98.55%	7.693	≤ 7.75	Pass
11a	6Mbps	144	5720	4.231	4.593	98.55%	7.490	≤ 7.75	Pass
11ac-VHT20	MCS0	36	5180	10.355	10.075	99.59%	13.245	≤ 15.41	Pass
11ac-VHT20	MCS0	40	5200	12.004	12.332	99.59%	15.199	≤ 15.41	Pass
11ac-VHT20	MCS0	48	5240	12.105	12.434	99.59%	15.301	≤ 15.41	Pass
11ac-VHT20	MCS0	52	5260	4.627	5.443	99.59%	8.082	≤ 8.61	Pass
11ac-VHT20	MCS0	60	5300	4.939	6.081	99.59%	8.576	≤ 8.61	Pass
11ac-VHT20	MCS0	64	5320	4.963	5.559	99.59%	8.299	≤ 8.61	Pass
11ac-VHT20	MCS0	100	5500	3.992	4.892	99.59%	7.493	≤ 7.75	Pass
11ac-VHT20	MCS0	116	5580	4.783	4.567	99.59%	7.704	≤ 7.75	Pass
11ac-VHT20	MCS0	140	5700	4.269	4.491	99.59%	7.410	≤ 7.75	Pass
11ac-VHT20	MCS0	144	5720	4.592	4.227	99.59%	7.441	≤ 7.75	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	5.615	5.348	99.57%	8.513	≤ 15.41	Pass
11ac-VHT40	MCS0	46	5230	10.546	12.099	99.57%	14.421	≤ 15.41	Pass
11ac-VHT40	MCS0	54	5270	4.795	5.875	99.57%	8.398	≤ 8.61	Pass
11ac-VHT40	MCS0	62	5310	4.975	5.697	99.57%	8.380	≤ 8.61	Pass
11ac-VHT40	MCS0	102	5510	4.122	4.783	99.57%	7.494	≤ 7.75	Pass
11ac-VHT40	MCS0	110	5550	3.984	5.169	99.57%	7.646	≤ 7.75	Pass
11ac-VHT40	MCS0	134	5670	3.688	4.097	99.57%	6.926	≤ 7.75	Pass
11ac-VHT40	MCS0	142	5710	4.085	4.426	99.57%	7.288	≤ 7.75	Pass
11ac-VHT80	MCS0	42	5210	4.168	3.913	99.65%	7.068	≤ 15.41	Pass
11ac-VHT80	MCS0	58	5290	3.482	3.354	99.65%	6.444	≤ 8.61	Pass
11ac-VHT80	MCS0	106	5530	2.388	1.745	99.65%	5.104	≤ 7.75	Pass
11ac-VHT80	MCS0	122	5610	2.853	2.781	99.65%	5.843	≤ 7.75	Pass
11ac-VHT80	MCS0	138	5690	3.085	2.979	99.65%	6.058	≤ 7.75	Pass
11ac-VHT160	MCS0	50	5250	-1.318	-1.124	98.93%	1.837	≤ 8.61	Pass
11ac-VHT160	MCS0	114	5570	-0.378	-1.607	98.93%	2.108	≤ 7.75	Pass
11ax-HE20	MCS0	36	5180	9.629	9.680	99.49%	12.687	≤ 15.41	Pass
11ax-HE20	MCS0	40	5200	11.796	12.210	99.49%	15.040	≤ 15.41	Pass
11ax-HE20	MCS0	48	5240	11.879	12.317	99.49%	15.136	≤ 15.41	Pass
11ax-HE20	MCS0	52	5260	4.537	5.801	99.49%	8.247	≤ 8.61	Pass
11ax-HE20	MCS0	60	5300	4.416	5.719	99.49%	8.149	≤ 8.61	Pass
11ax-HE20	MCS0	64	5320	4.472	5.588	99.49%	8.098	≤ 8.61	Pass
11ax-HE20	MCS0	100	5500	3.641	4.743	99.49%	7.259	≤ 7.75	Pass
11ax-HE20	MCS0	116	5580	4.212	4.924	99.49%	7.615	≤ 7.75	Pass
11ax-HE20	MCS0	140	5700	4.653	4.741	99.49%	7.730	≤ 7.75	Pass
11ax-HE20	MCS0	144	5720	4.175	4.427	99.49%	7.335	≤ 7.75	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	4.594	4.407	98.98%	7.556	≤ 15.41	Pass
11ax-HE40	MCS0	46	5230	10.746	11.453	98.98%	14.169	≤ 15.41	Pass
11ax-HE40	MCS0	54	5270	5.168	5.613	98.98%	8.451	≤ 8.61	Pass
11ax-HE40	MCS0	62	5310	4.968	4.875	98.98%	7.977	≤ 8.61	Pass
11ax-HE40	MCS0	102	5510	3.794	3.812	98.98%	6.858	≤ 7.75	Pass
11ax-HE40	MCS0	110	5550	3.993	4.938	98.98%	7.546	≤ 7.75	Pass
11ax-HE40	MCS0	134	5670	4.341	4.716	98.98%	7.587	≤ 7.75	Pass
11ax-HE40	MCS0	142	5710	4.320	4.599	98.98%	7.517	≤ 7.75	Pass
11ax-HE80	MCS0	42	5210	3.480	3.682	99.18%	6.628	≤ 15.41	Pass
11ax-HE80	MCS0	58	5290	4.194	3.891	99.18%	7.091	≤ 8.61	Pass
11ax-HE80	MCS0	106	5530	3.187	2.062	99.18%	5.707	≤ 7.75	Pass
11ax-HE80	MCS0	122	5610	2.626	2.767	99.18%	5.743	≤ 7.75	Pass
11ax-HE80	MCS0	122	5690	3.303	3.118	99.18%	6.258	≤ 7.75	Pass
11ax-HE160	MCS0	50	5250	-1.055	-0.883	98.99%	2.086	≤ 8.61	Pass
11ax-HE160	MCS0	114	5570	-0.875	-1.484	98.99%	1.886	≤ 7.75	Pass
11be-EHT20	MCS0	36	5180	10.035	9.725	99.48%	12.916	≤ 15.41	Pass
11be-EHT20	MCS0	40	5200	11.828	12.218	99.48%	15.060	≤ 15.41	Pass
11be-EHT20	MCS0	48	5240	11.404	12.295	99.48%	14.905	≤ 15.41	Pass
11be-EHT20	MCS0	52	5260	4.820	5.717	99.48%	8.325	≤ 8.61	Pass
11be-EHT20	MCS0	60	5300	4.365	5.864	99.48%	8.212	≤ 8.61	Pass
11be-EHT20	MCS0	64	5320	4.747	5.858	99.48%	8.371	≤ 8.61	Pass
11be-EHT20	MCS0	100	5500	3.698	5.045	99.48%	7.456	≤ 7.75	Pass
11be-EHT20	MCS0	116	5580	4.274	4.555	99.48%	7.450	≤ 7.75	Pass
11be-EHT20	MCS0	140	5700	4.139	4.688	99.48%	7.455	≤ 7.75	Pass
11be-EHT20	MCS0	144	5720	4.173	4.425	99.48%	7.334	≤ 7.75	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
11be-EHT40	MCS0	38	5190	3.966	3.923	99.31%	6.985	≤ 15.41	Pass
11be-EHT40	MCS0	46	5230	11.025	11.998	99.31%	14.579	≤ 15.41	Pass
11be-EHT40	MCS0	54	5270	4.948	5.925	99.31%	8.504	≤ 8.61	Pass
11be-EHT40	MCS0	62	5310	4.896	5.977	99.31%	8.510	≤ 8.61	Pass
11be-EHT40	MCS0	102	5510	3.249	3.554	99.31%	6.445	≤ 7.75	Pass
11be-EHT40	MCS0	110	5550	4.258	5.012	99.31%	7.692	≤ 7.75	Pass
11be-EHT40	MCS0	134	5670	4.441	4.705	99.31%	7.615	≤ 7.75	Pass
11be-EHT40	MCS0	142	5710	4.533	4.737	99.31%	7.677	≤ 7.75	Pass
11be-EHT80	MCS0	42	5210	3.408	3.471	99.18%	6.486	≤ 15.41	Pass
11be-EHT80	MCS0	58	5290	4.074	3.957	99.18%	7.062	≤ 8.61	Pass
11be-EHT80	MCS0	106	5530	3.302	3.065	99.18%	6.231	≤ 7.75	Pass
11be-EHT80	MCS0	122	5610	2.790	2.927	99.18%	5.905	≤ 7.75	Pass
11be-EHT80	MCS0	138	5690	3.012	2.629	99.18%	5.871	≤ 7.75	Pass
11be-EHT160	MCS0	50	5250	-0.962	-0.674	99.42%	2.220	≤ 8.61	Pass
11be-EHT160	MCS0	114	5570	-1.407	-1.429	99.42%	1.618	≤ 7.75	Pass

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

Note 2:

For 5150 - 5250MHz Band: PSD Limit (dBm/MHz) = 17 - (7.59 - 6) = 15.41dBm/MHz.

For 5250 - 5350MHz Band: PSD Limit (dBm/MHz) = 11 - (8.39 - 6) = 8.61dBm/MHz.

For 5470 - 5725MHz Band: PSD Limit (dBm/MHz) = 11 - (9.25 - 6) = 7.75dBm/MHz.

Product	BE9700 Tri-Band Wi-Fi 7 Router	Test Engineer	Marvin
Test Site	SR6	Test Date	2025/2/14~2025/2/27
Test Item	Power Spectral Density (U-NII-3) CDD Mode		

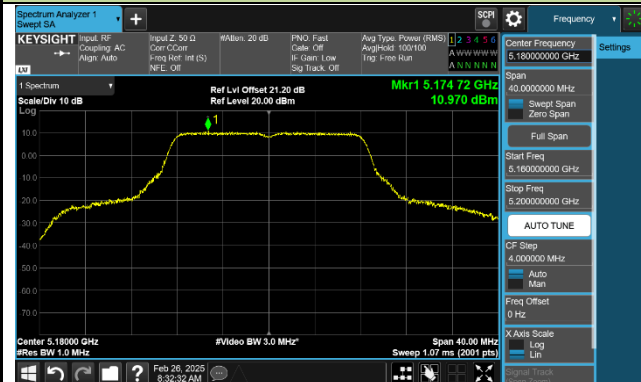
Test Mode	Data Rate/ MCS	Ch. No.	Freq. (MHz)	Ant 0 PSD (dBm/510KHz)	Ant 1 PSD (dBm/510KHz)	Duty Cycle (%)	Total PSD(dBm/ 510kHz)	Limit (dBm/ 500kHz)	Result
11a	6Mbps	149	5745	12.653	12.102	98.55%	15.460	≤ 27.40	Pass
11a	6Mbps	157	5785	12.433	11.597	98.55%	15.109	≤ 27.40	Pass
11a	6Mbps	165	5825	11.288	10.708	98.55%	14.081	≤ 27.40	Pass
11ac-VHT20	MCS0	149	5745	11.609	11.198	99.59%	14.437	≤ 27.40	Pass
11ac-VHT20	MCS0	157	5785	12.417	11.518	99.59%	15.019	≤ 27.40	Pass
11ac-VHT20	MCS0	165	5825	11.250	10.342	99.59%	13.848	≤ 27.40	Pass
11ac-VHT40	MCS0	151	5755	6.724	6.664	99.57%	9.723	≤ 27.40	Pass
11ac-VHT40	MCS0	159	5795	7.881	8.256	99.57%	11.102	≤ 27.40	Pass
11ac-VHT80	MCS0	155	5775	2.530	2.921	99.65%	5.755	≤ 27.40	Pass
11ax-HE20	MCS0	149	5745	13.011	11.301	99.49%	15.272	≤ 27.40	Pass
11ax-HE20	MCS0	157	5785	12.288	11.164	99.49%	14.795	≤ 27.40	Pass
11ax-HE20	MCS0	165	5825	11.200	9.734	99.49%	13.561	≤ 27.40	Pass
11ax-HE40	MCS0	151	5755	5.167	5.172	98.98%	8.224	≤ 27.40	Pass
11ax-HE40	MCS0	159	5795	7.942	9.186	98.98%	11.663	≤ 27.40	Pass
11ax-HE80	MCS0	155	5775	2.584	2.729	99.18%	5.703	≤ 27.40	Pass
11be-EHT20	MCS0	149	5745	12.703	11.233	99.48%	15.063	≤ 27.40	Pass
11be-EHT20	MCS0	157	5785	12.397	11.005	99.48%	14.789	≤ 27.40	Pass
11be-EHT20	MCS0	165	5825	11.256	9.952	99.48%	13.686	≤ 27.40	Pass
11be-EHT40	MCS0	151	5755	5.415	5.194	99.31%	8.346	≤ 27.40	Pass
11be-EHT40	MCS0	159	5795	8.229	7.682	99.31%	11.004	≤ 27.40	Pass
11be-EHT80	MCS0	155	5775	2.377	2.733	99.18%	5.605	≤ 27.40	Pass

Note 1: The total PSD (dBm/510kHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$ (dBm/510kHz) + $10 \cdot \log (1/\text{Duty Cycle})$.

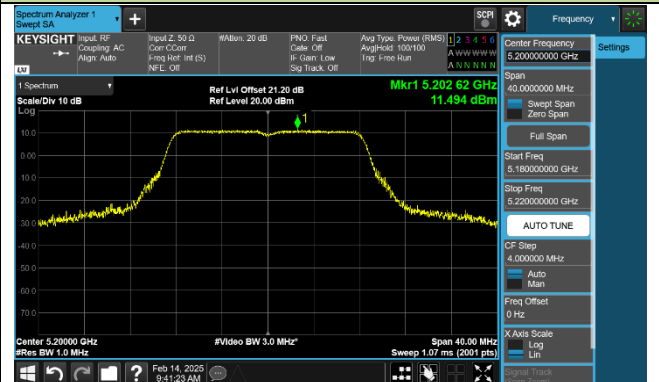
Note 2: PSD Limit (dBm/500kHz) = 30 - (8.60 - 6) = 27.40 (dBm/500kHz).

802.11a Power Spectral Density - Ant 0

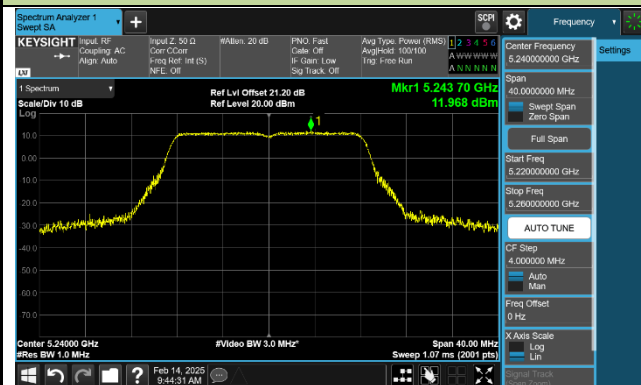
Channel 36 (5180MHz)



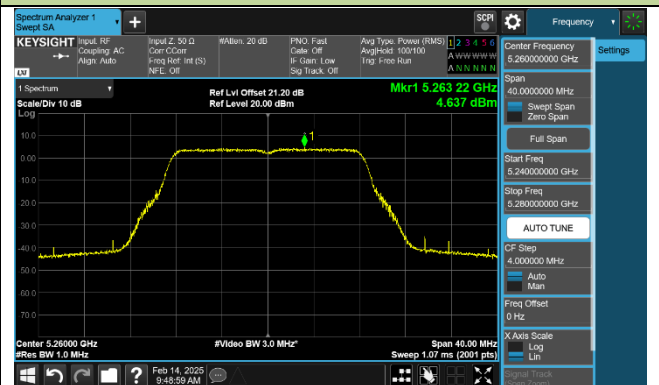
Channel 40 (5200MHz)



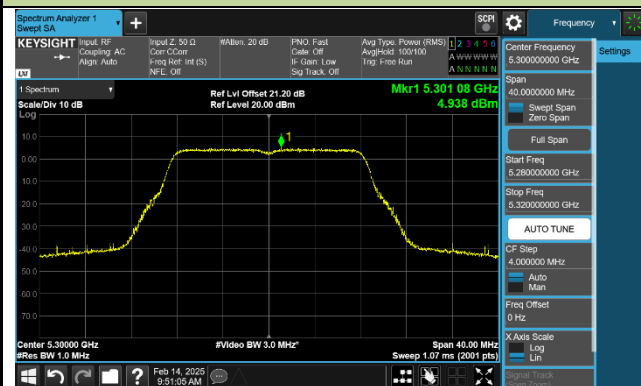
Channel 48 (5240MHz)



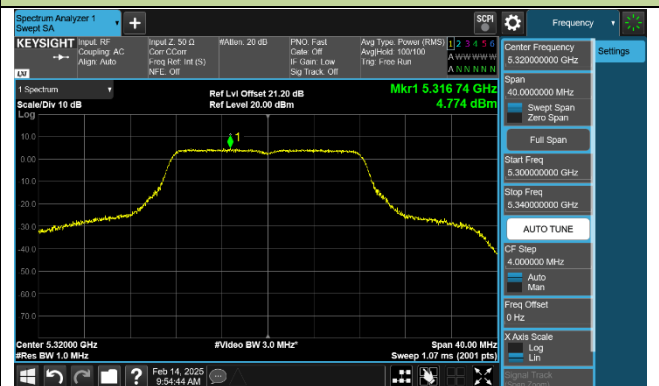
Channel 52 (5260MHz)



Channel 60 (5300MHz)



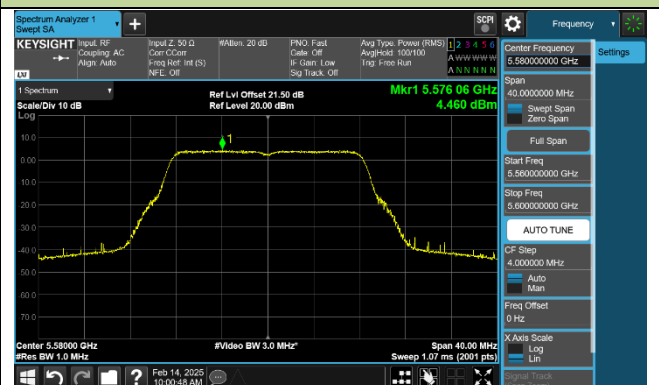
Channel 64 (5320MHz)

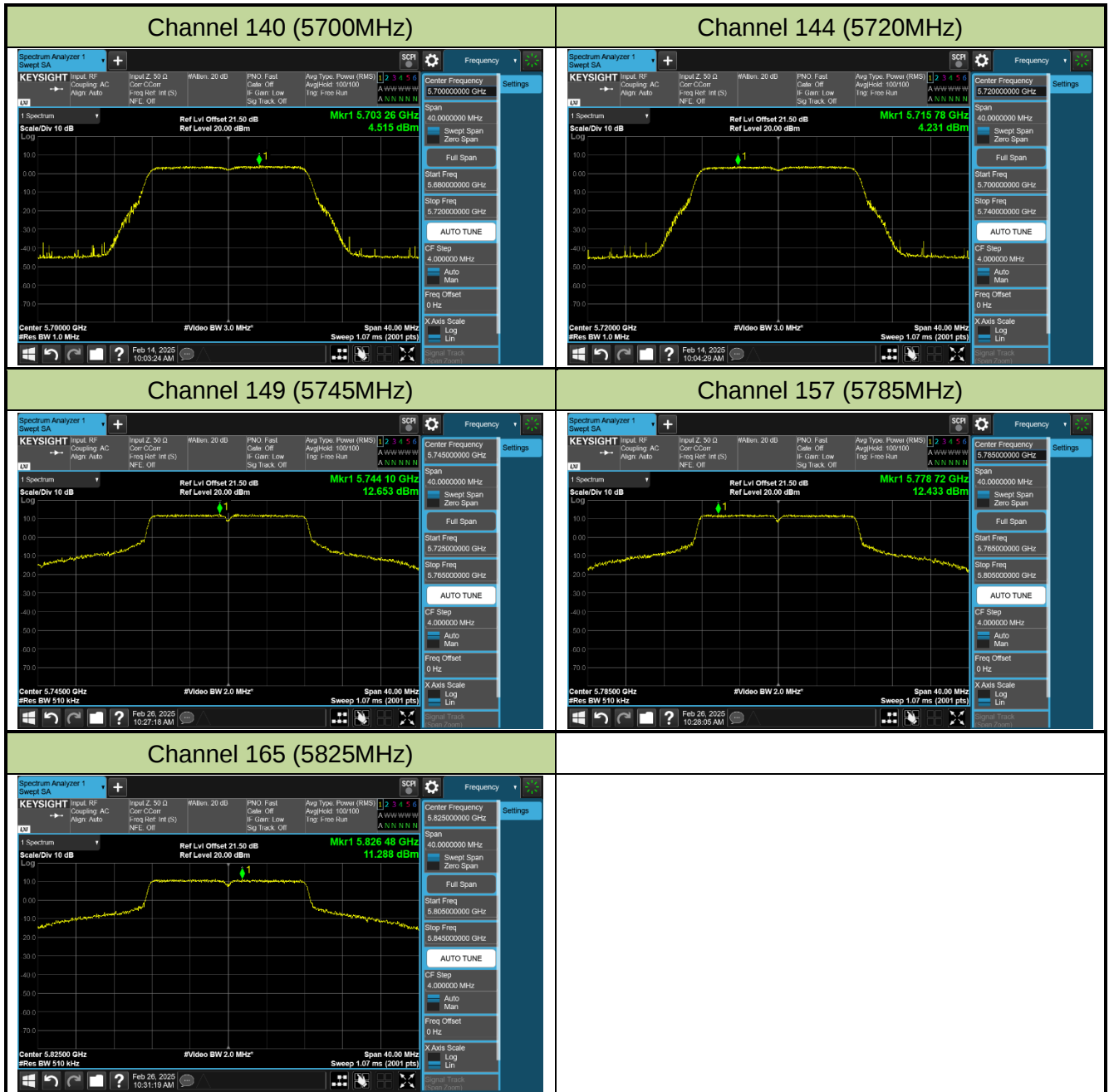


Channel 100 (5500MHz)



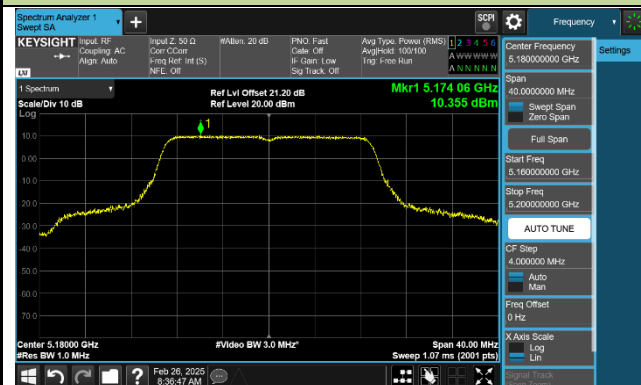
Channel 116 (5580MHz)



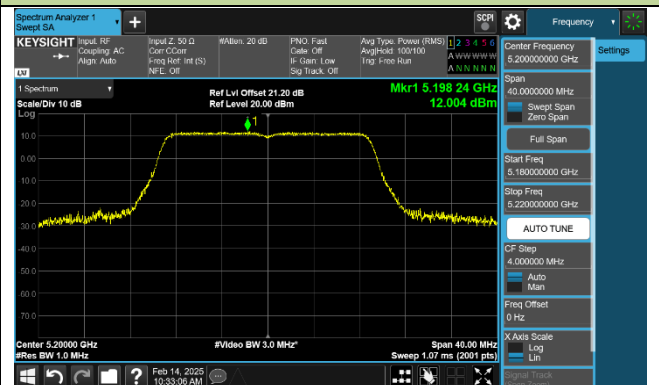


802.11ac-VHT20 Power Spectral Density - Ant 0

Channel 36 (5180MHz)



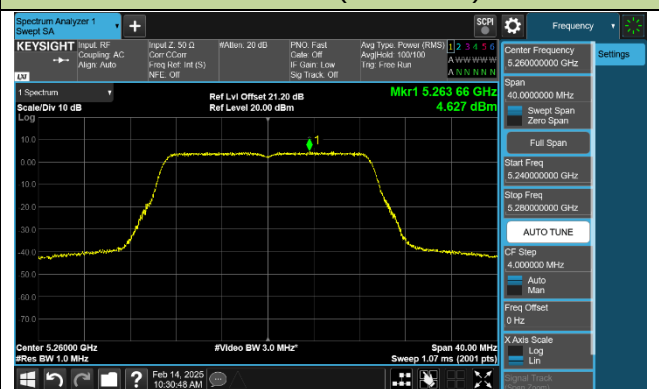
Channel 40 (5200MHz)



Channel 48 (5240MHz)



Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)



Channel 100 (5500MHz)



Channel 116 (5580MHz)

