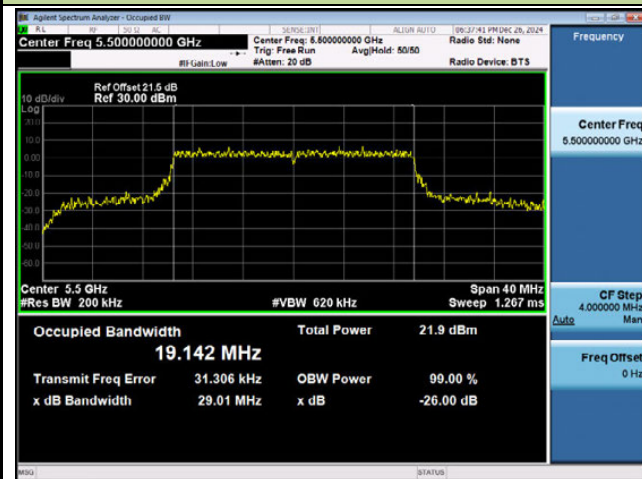
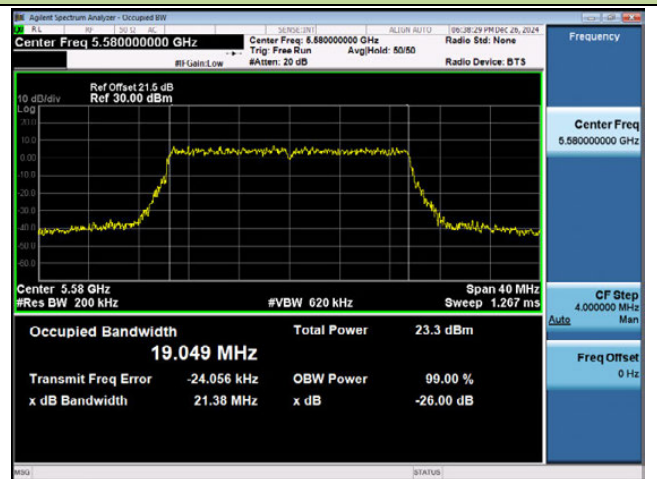


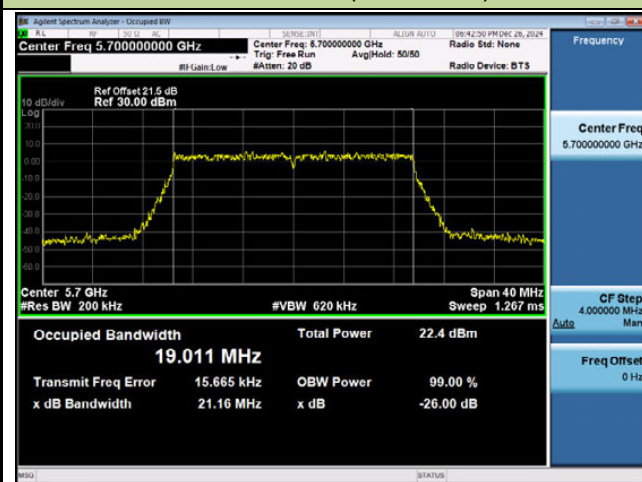
Channel 100 (5500MHz)



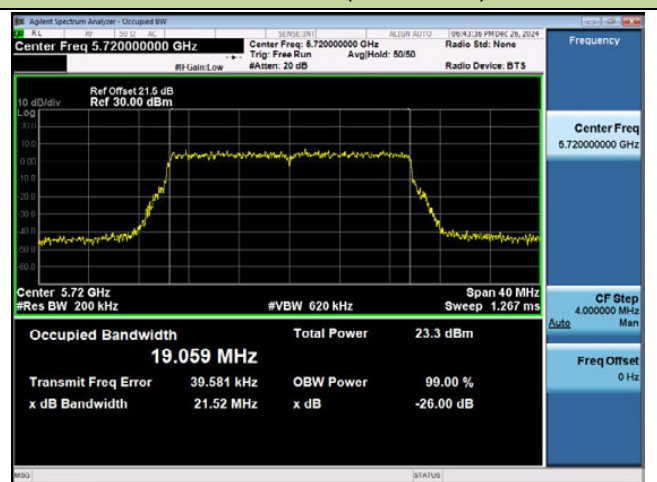
Channel 116 (5580MHz)



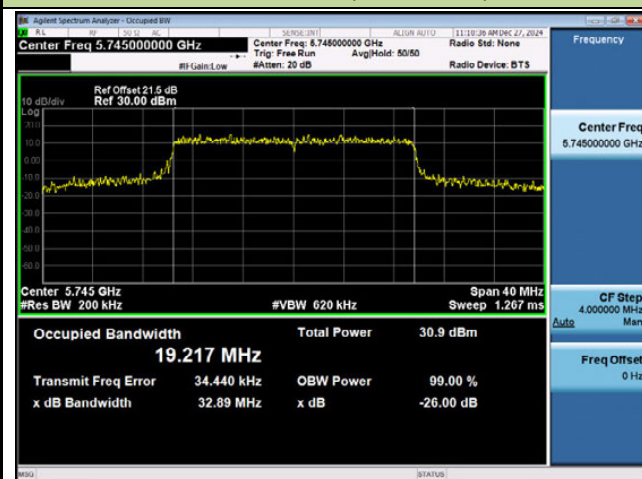
Channel 140 (5700MHz)



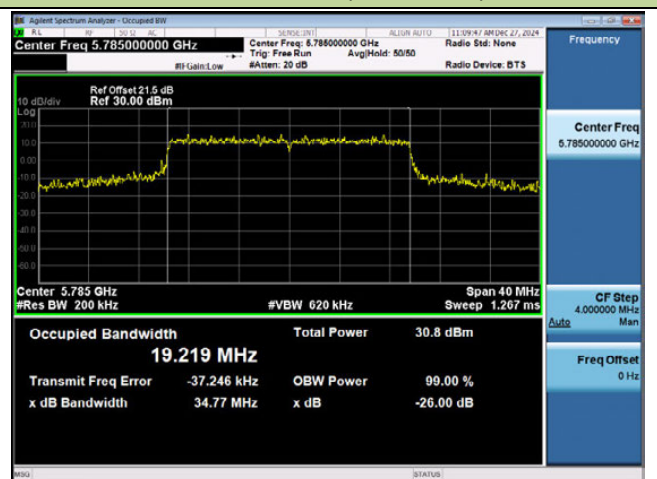
Channel 144 (5720MHz)

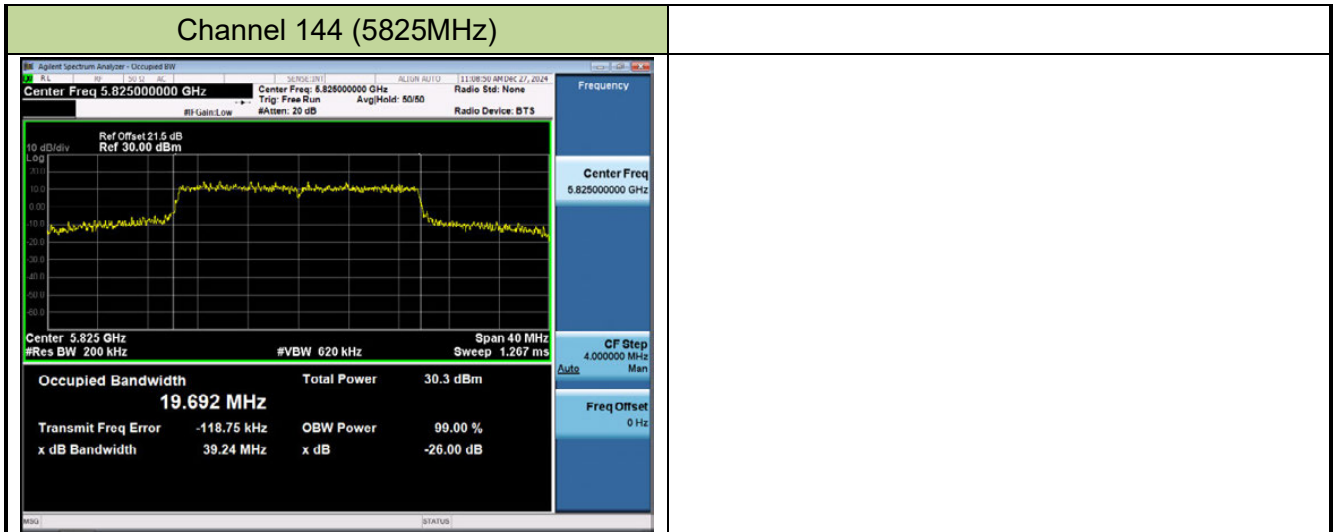


Channel 149 (5745MHz)



Channel 144 (5785MHz)



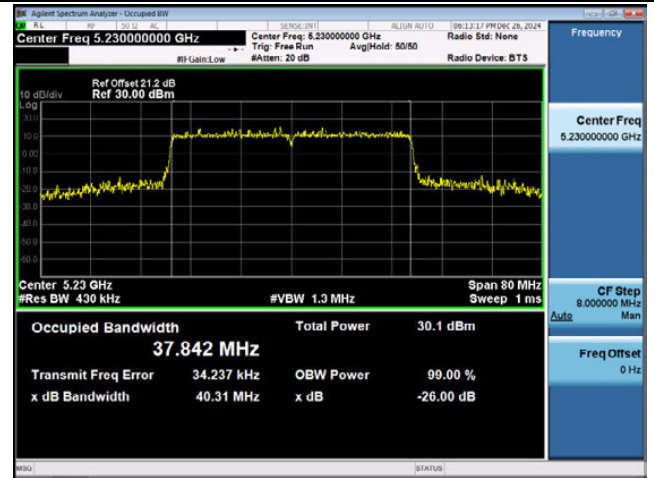


802.11ax-HE40 26dB Bandwidth & 99% Bandwidth

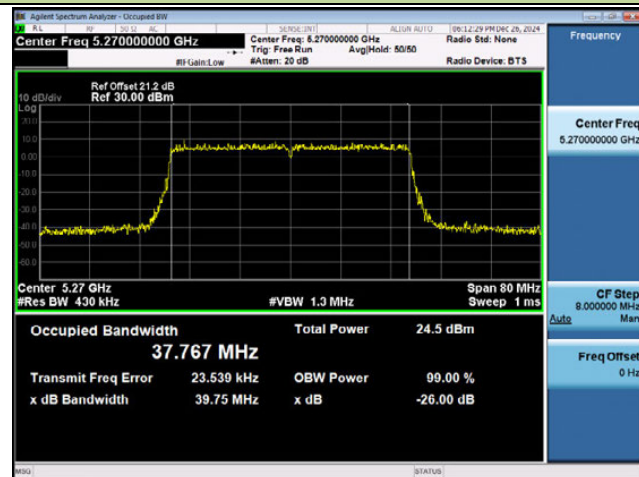
Channel 38 (5190MHz)



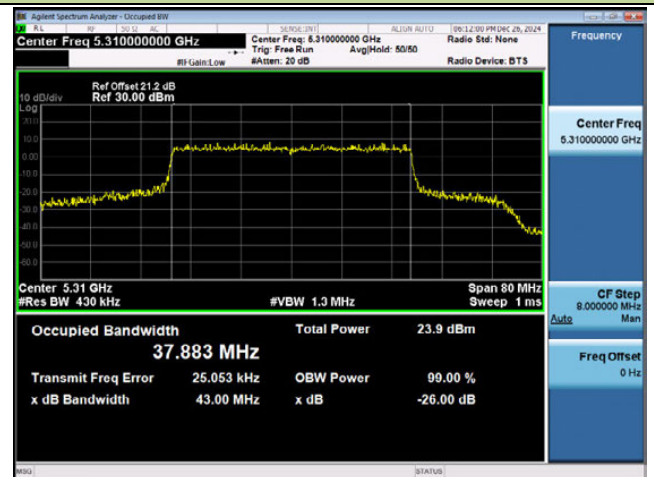
Channel 46 (5230MHz)



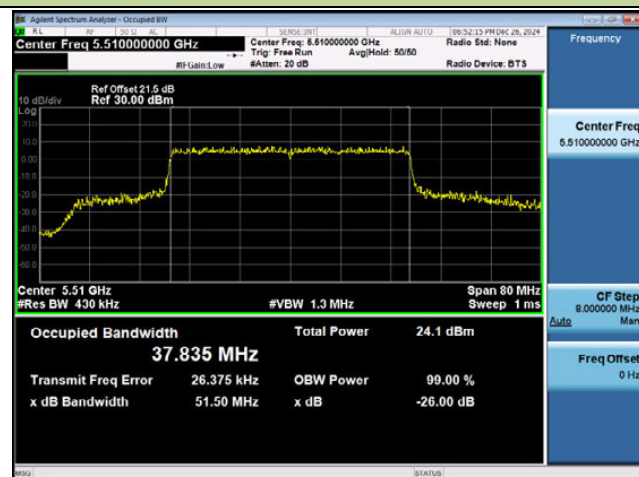
Channel 54 (5270MHz)



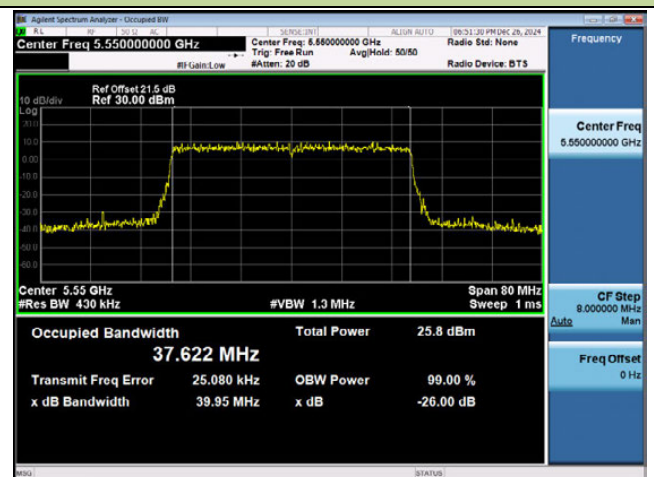
Channel 62 (5310MHz)

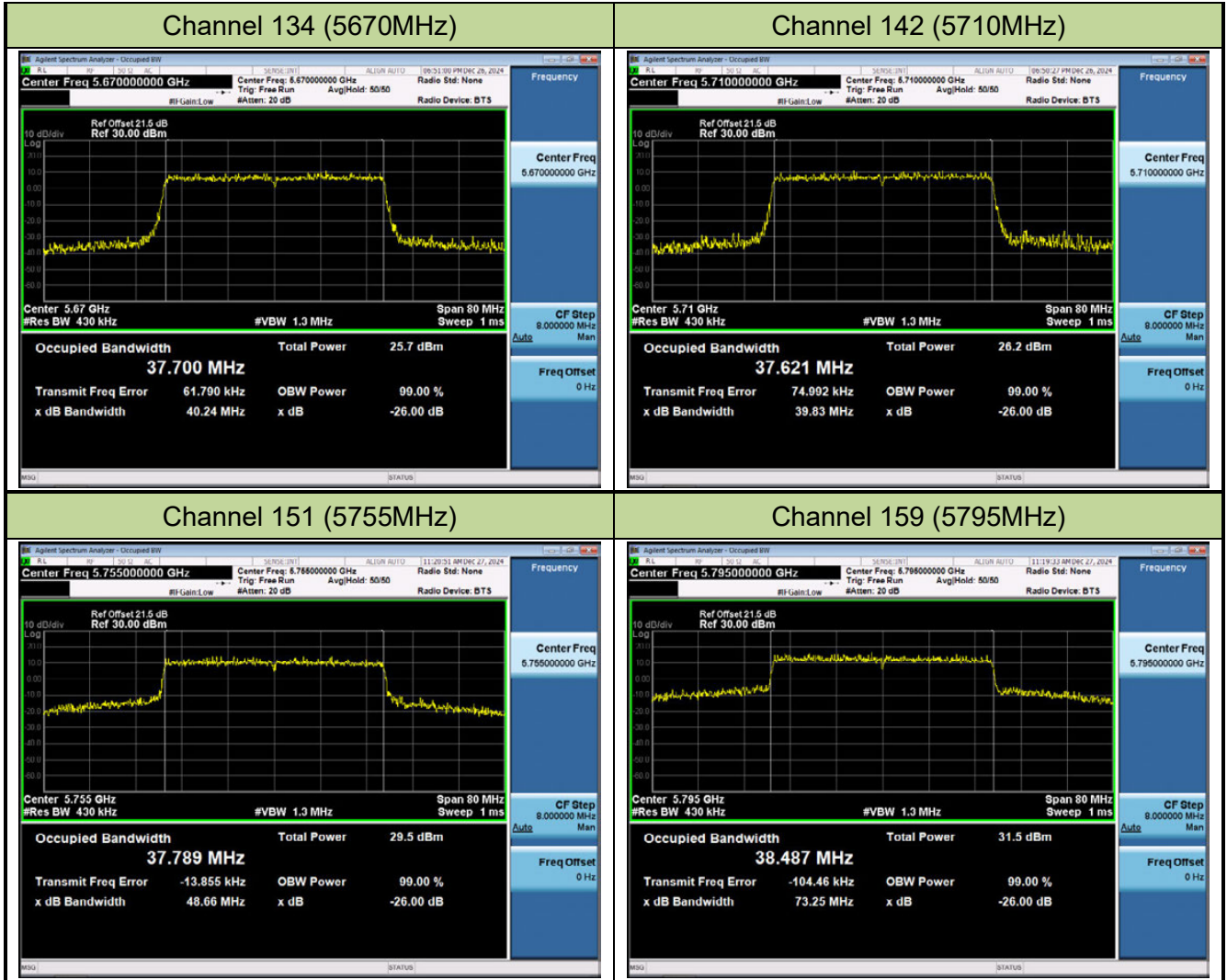


Channel 102 (5510MHz)



Channel 110 (5550MHz)





802.11ax-HE80 26dB Bandwidth & 99% Bandwidth

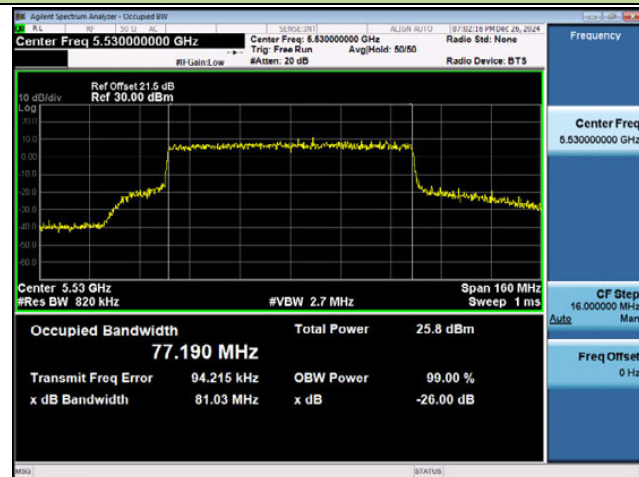
Channel 42 (5210MHz)



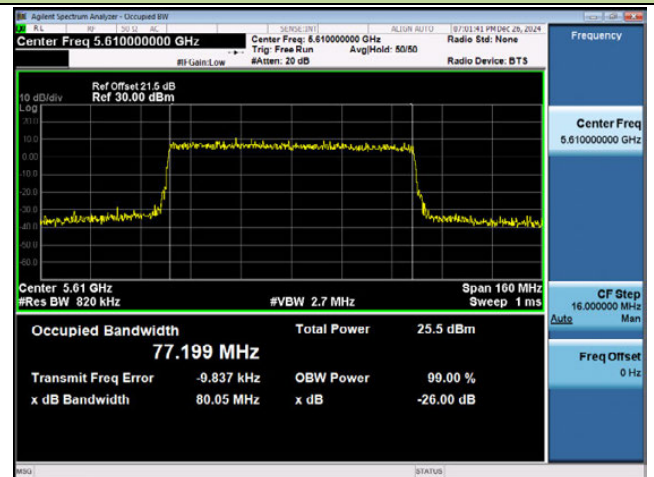
Channel 58 (5290MHz)



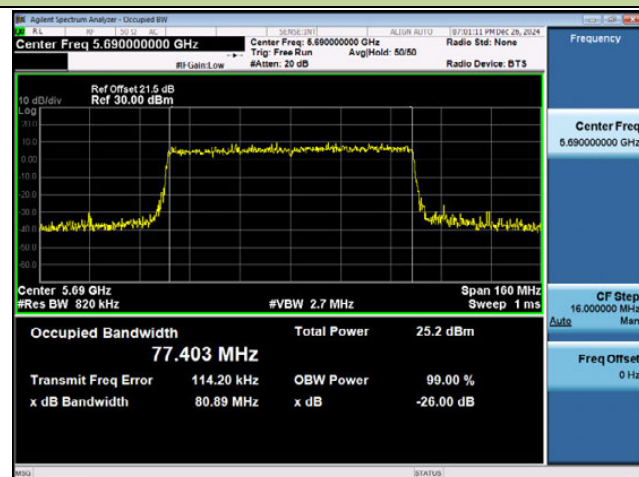
Channel 106 (5530MHz)



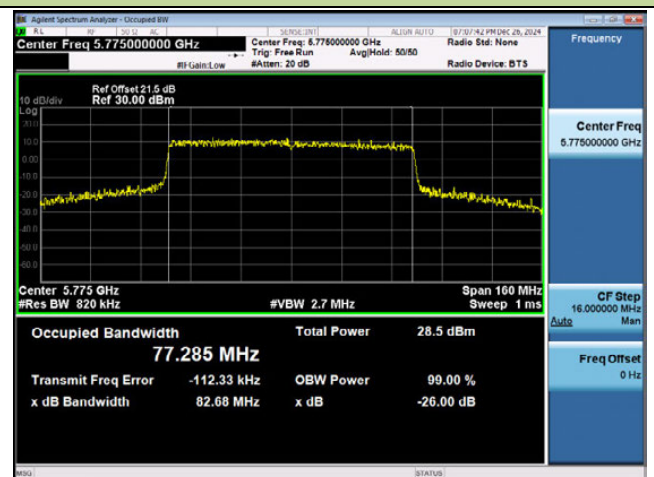
Channel 122 (5610MHz)



Channel 138 (5690MHz)



Channel 155 (5775MHz)



802.11ax-HE160 26dB Bandwidth & 99% Bandwidth

Channel 50 (5250MHz)



Channel 114 (5570MHz)

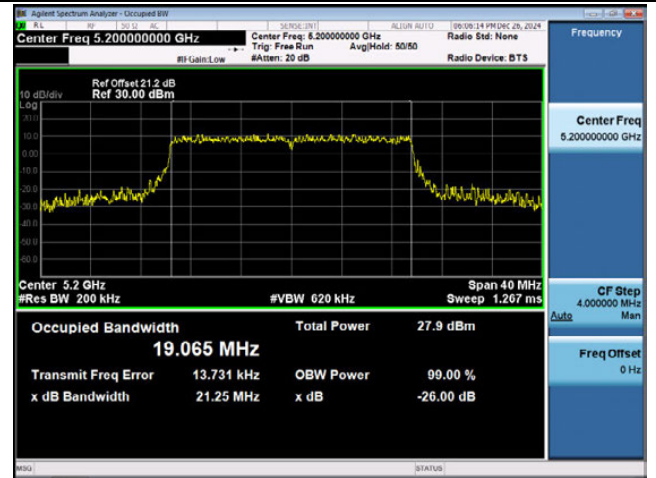


802.11be-EHT20 26dB Bandwidth & 99% Bandwidth

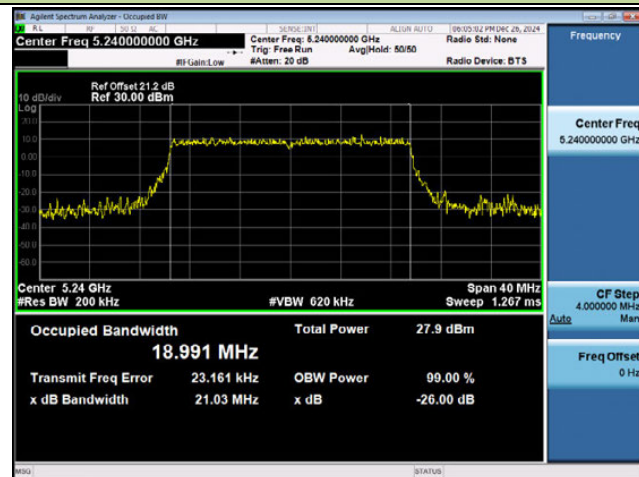
Channel 36 (5180MHz)



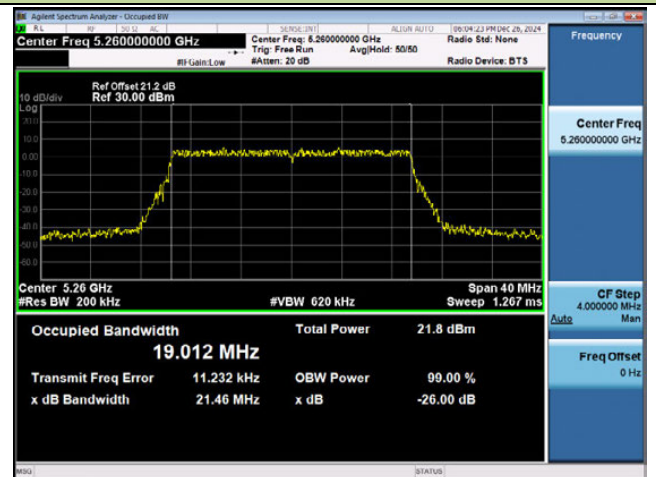
Channel 40 (5200MHz)



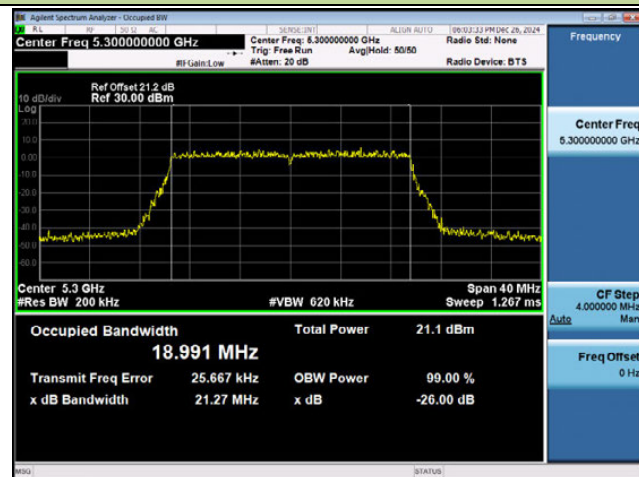
Channel 48 (5240MHz)



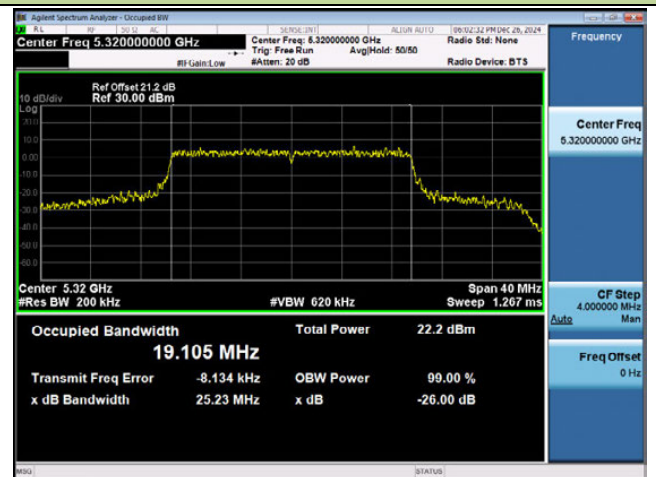
Channel 52 (5260MHz)



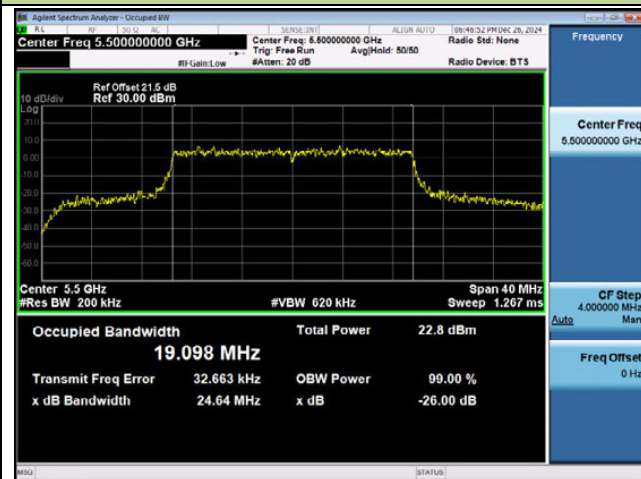
Channel 60 (5300MHz)



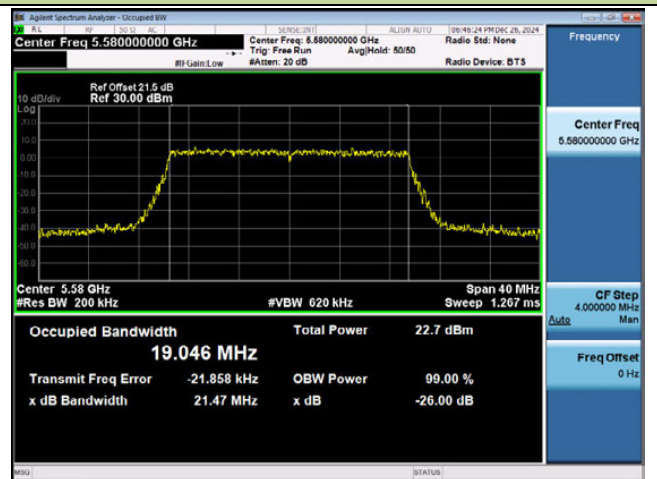
Channel 64 (5320MHz)



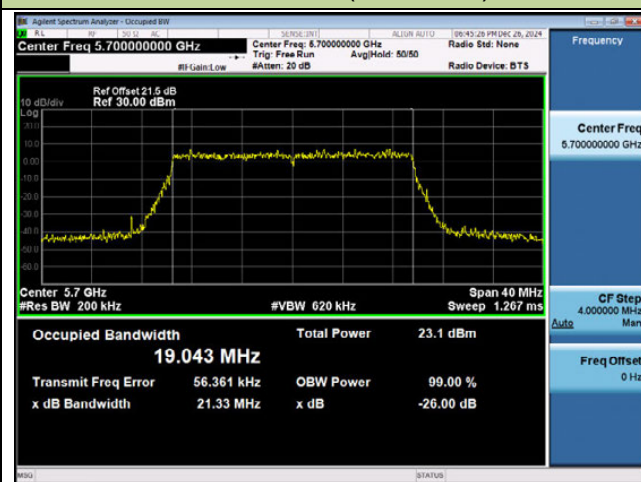
Channel 100 (5500MHz)



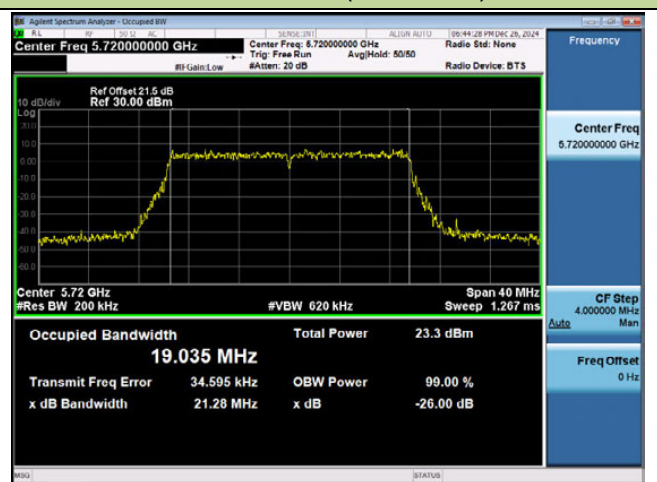
Channel 116 (5580MHz)



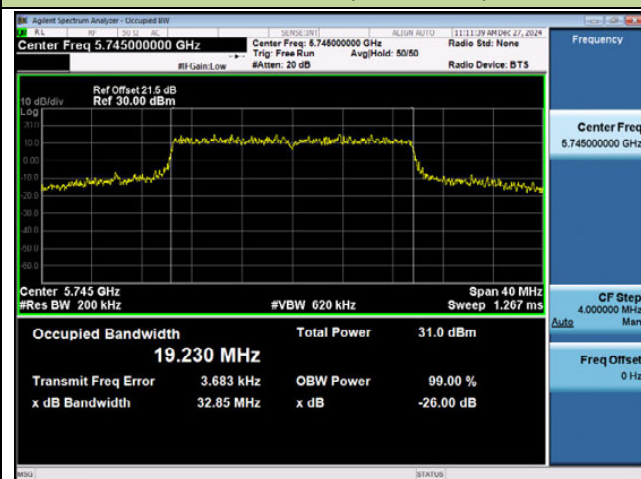
Channel 140 (5700MHz)



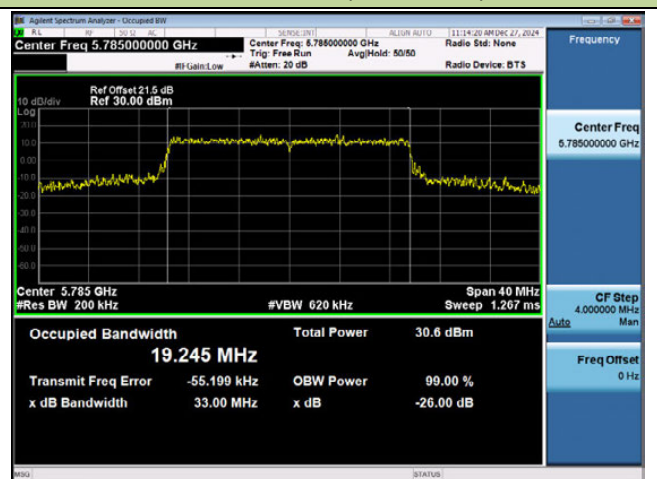
Channel 144 (5720MHz)

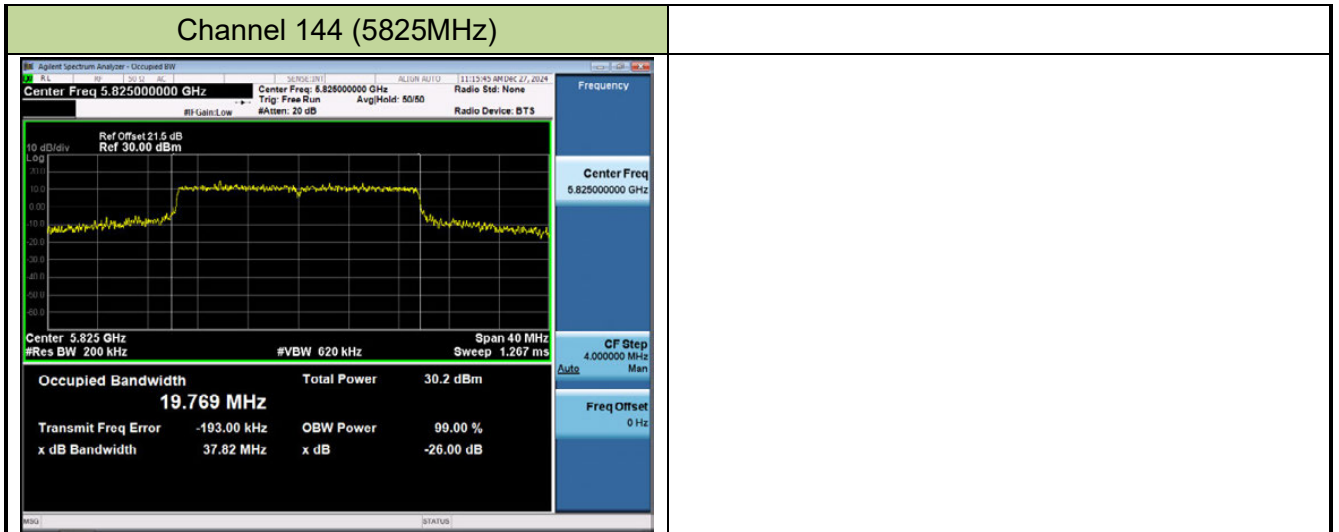


Channel 149 (5745MHz)



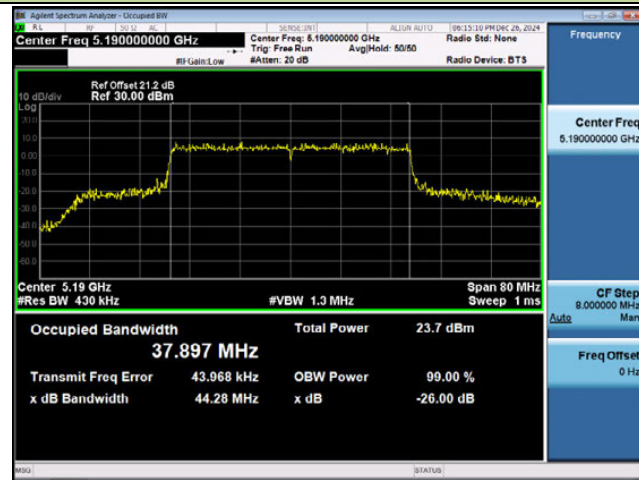
Channel 144 (5785MHz)



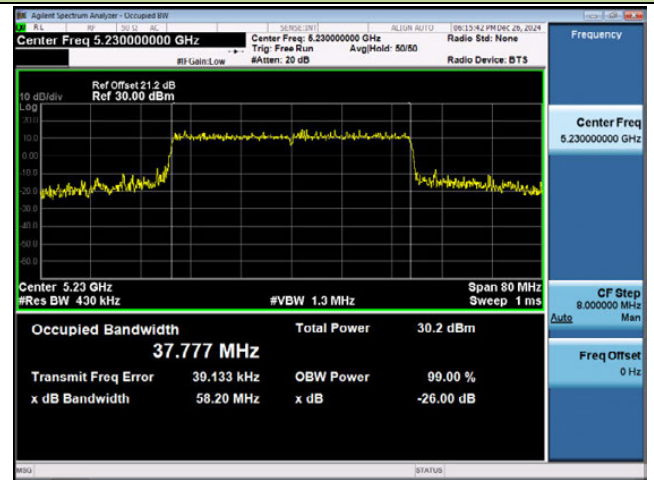


802.11be-EHT40 26dB Bandwidth & 99% Bandwidth

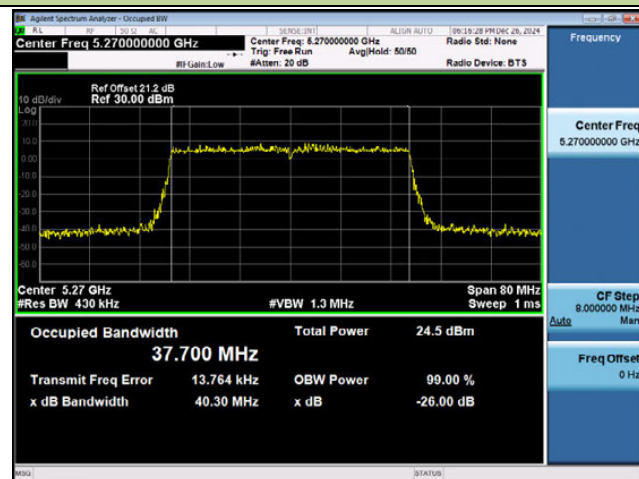
Channel 38 (5190MHz)



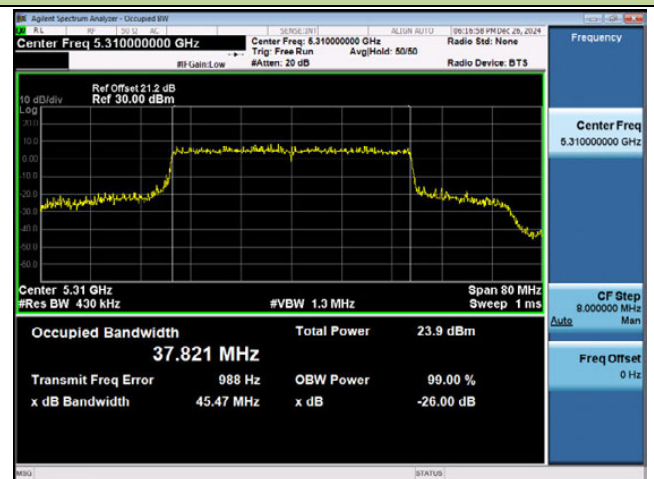
Channel 46 (5230MHz)



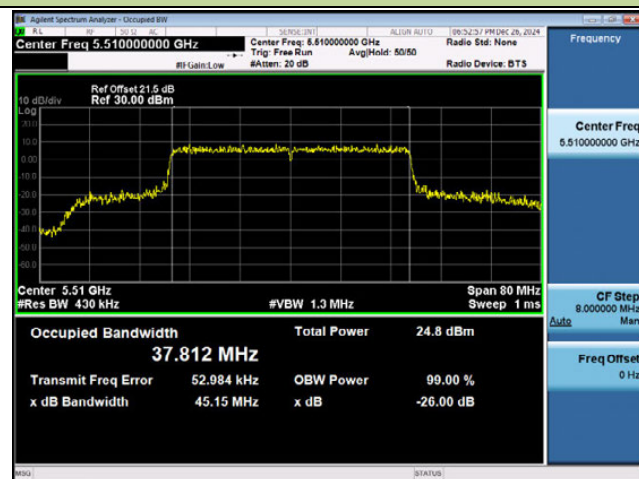
Channel 54 (5270MHz)



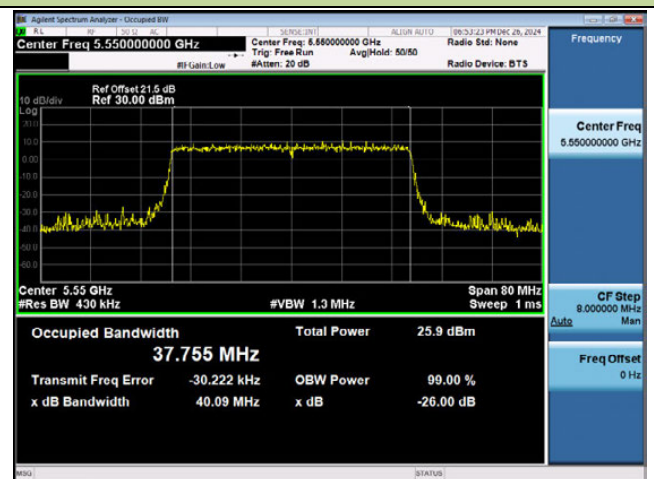
Channel 62 (5310MHz)

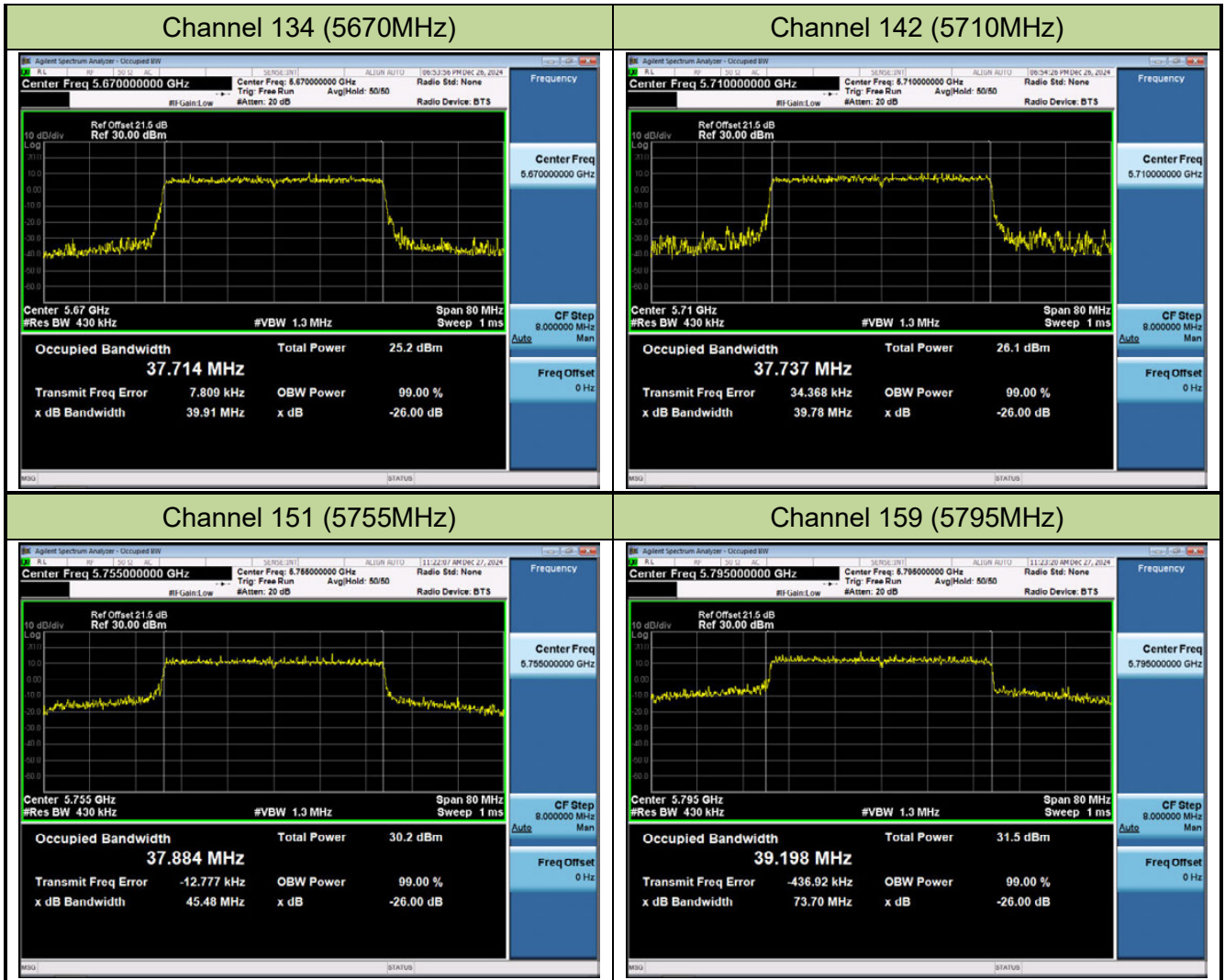


Channel 102 (5510MHz)



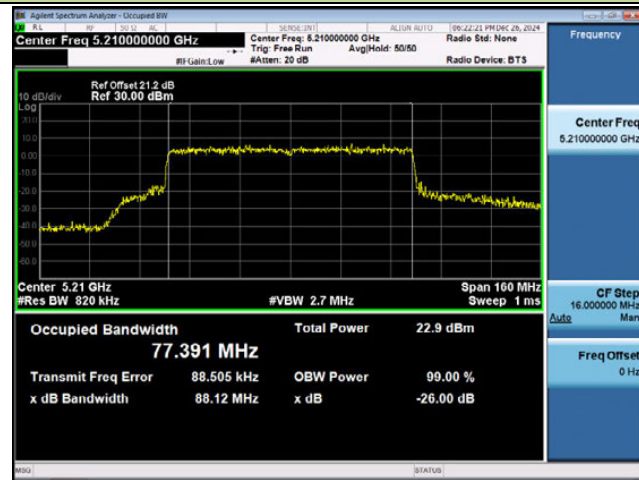
Channel 110 (5550MHz)



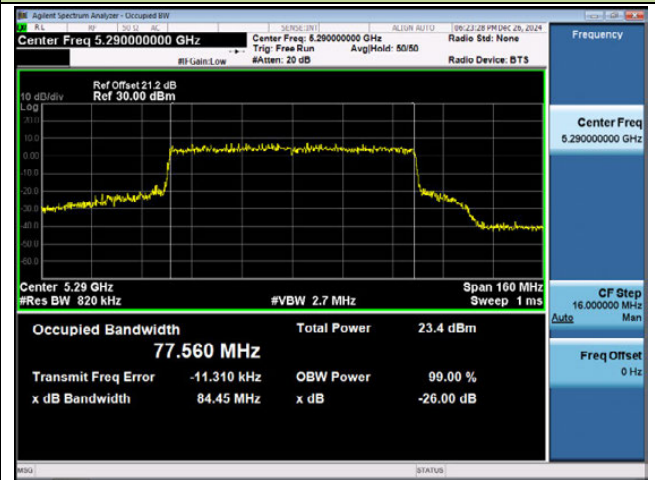


802.11be-EHT80 26dB Bandwidth & 99% Bandwidth

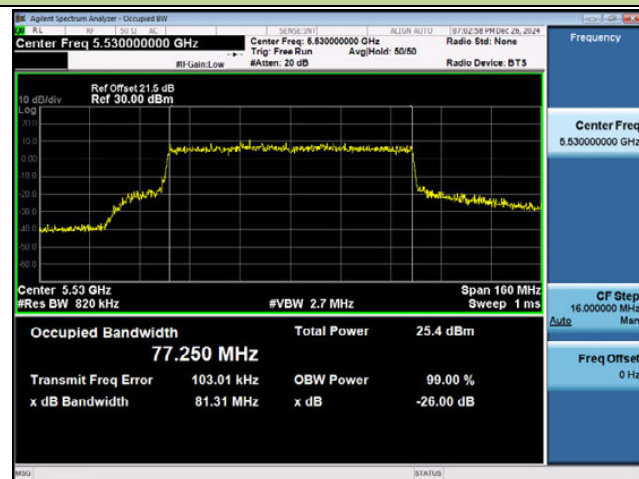
Channel 42 (5210MHz)



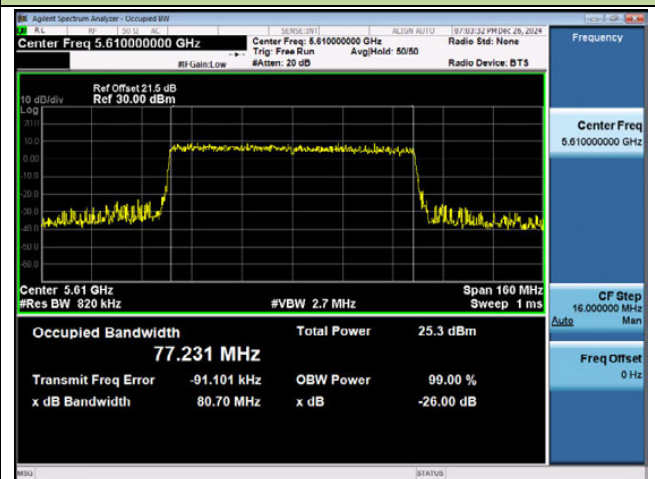
Channel 58 (5290MHz)



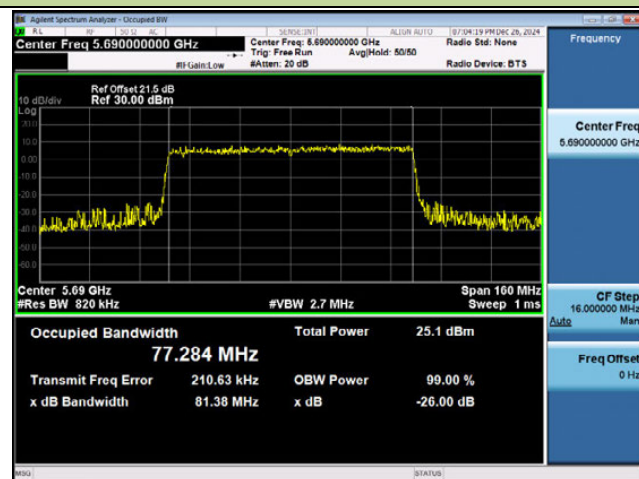
Channel 106 (5530MHz)



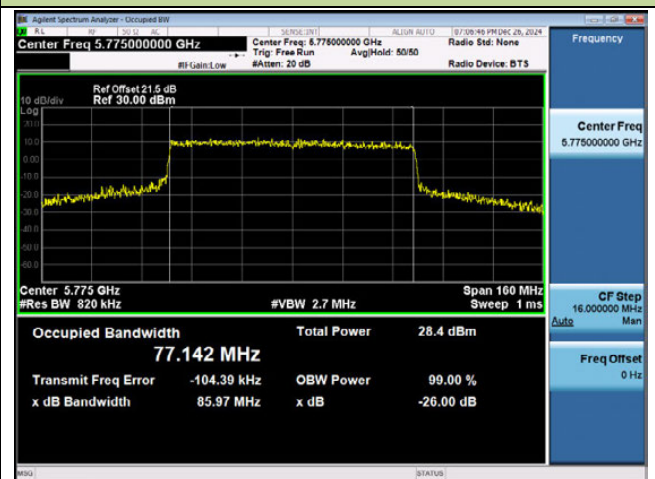
Channel 122 (5610MHz)



Channel 138 (5690MHz)

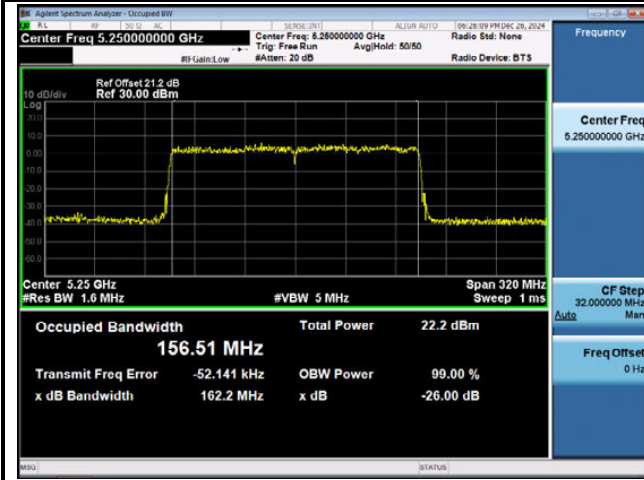


Channel 155 (5775MHz)

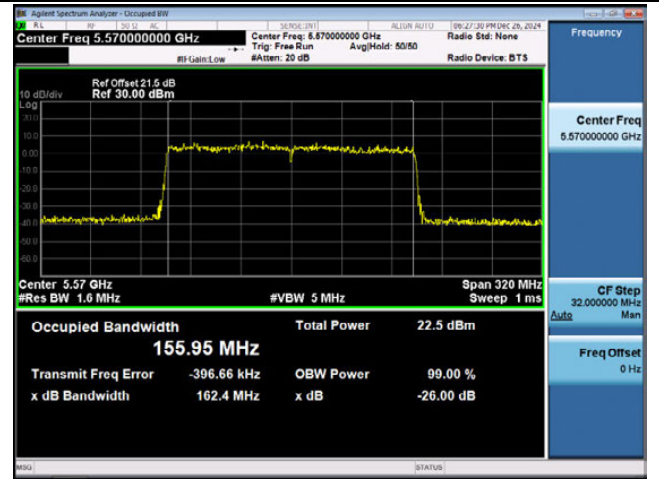


802.11be-EHT160 26dB Bandwidth & 99% Bandwidth

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.

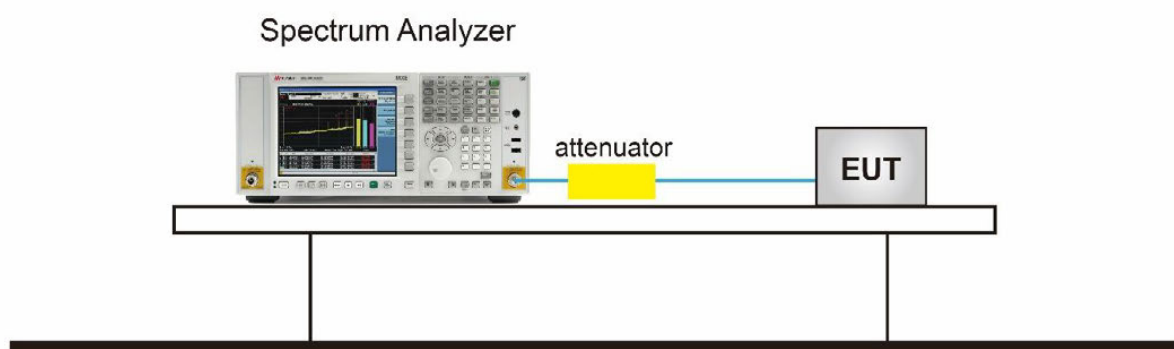
7.3.2. Test Procedure used

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



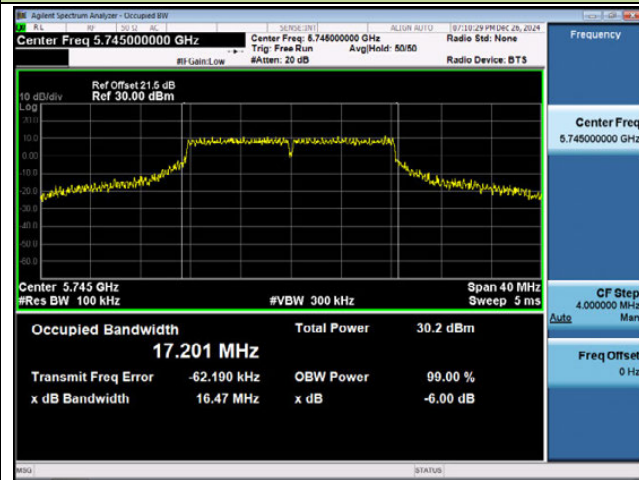
7.3.5.TestResult

Product	BE9700 Tri-Band Wi-Fi 7 Router	Test Engineer	Owen
Test Site	SR6	Test Date	2024/12/26~2024/12/27

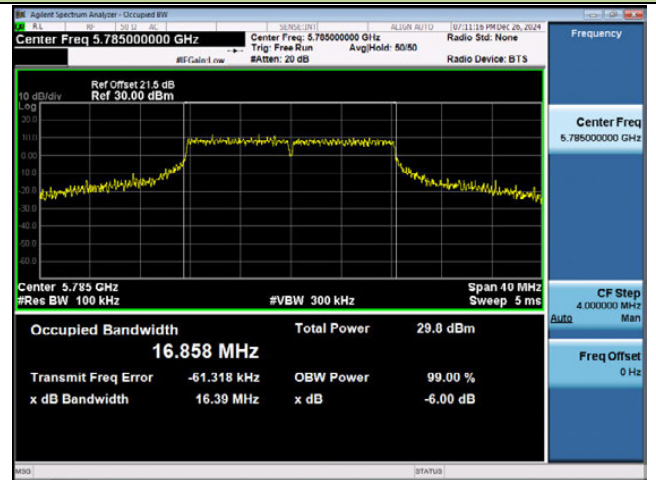
Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
Ant 1						
802.11a	6Mbps	149	5745	16.470	≥ 0.5	Pass
802.11a	6Mbps	157	5785	16.390	≥ 0.5	Pass
802.11a	6Mbps	165	5825	16.350	≥ 0.5	Pass
802.11ac-VHT20	MCS0	149	5745	17.640	≥ 0.5	Pass
802.11ac-VHT20	MCS0	157	5785	17.620	≥ 0.5	Pass
802.11ac-VHT20	MCS0	165	5825	17.570	≥ 0.5	Pass
802.11ac-VHT40	MCS0	151	5755	36.350	≥ 0.5	Pass
802.11ac-VHT40	MCS0	159	5795	36.400	≥ 0.5	Pass
802.11ac-VHT80	MCS0	155	5775	76.080	≥ 0.5	Pass
802.11ax-HE20	MCS0	149	5745	18.860	≥ 0.5	Pass
802.11ax-HE20	MCS0	157	5785	18.340	≥ 0.5	Pass
802.11ax-HE20	MCS0	165	5825	18.380	≥ 0.5	Pass
802.11ax-HE40	MCS0	151	5755	37.550	≥ 0.5	Pass
802.11ax-HE40	MCS0	159	5795	36.120	≥ 0.5	Pass
802.11ax-HE80	MCS0	155	5775	76.540	≥ 0.5	Pass
802.11be-EHT20	MCS0	149	5745	18.910	≥ 0.5	Pass
802.11be-EHT20	MCS0	157	5785	18.670	≥ 0.5	Pass
802.11be-EHT20	MCS0	165	5825	18.120	≥ 0.5	Pass
802.11be-EHT40	MCS0	151	5755	37.400	≥ 0.5	Pass
802.11be-EHT40	MCS0	159	5795	37.680	≥ 0.5	Pass
802.11be-EHT80	MCS0	155	5775	76.640	≥ 0.5	Pass

802.11a 6dB Bandwidth

Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

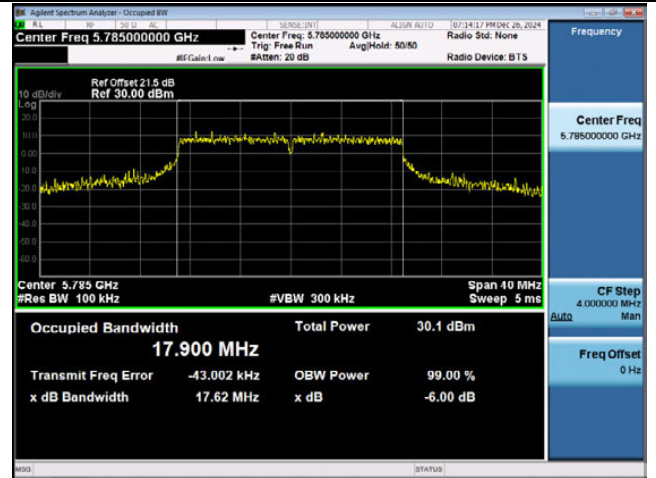


802.11ac-VHT20 6dB Bandwidth

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)

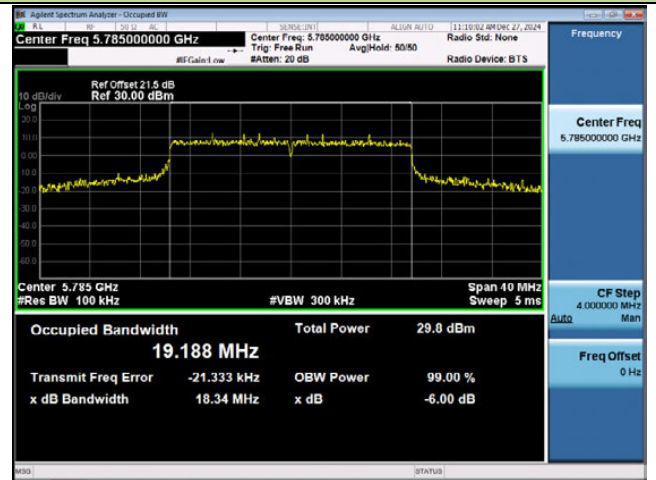


802.11ax-HE20 6dB Bandwidth

Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

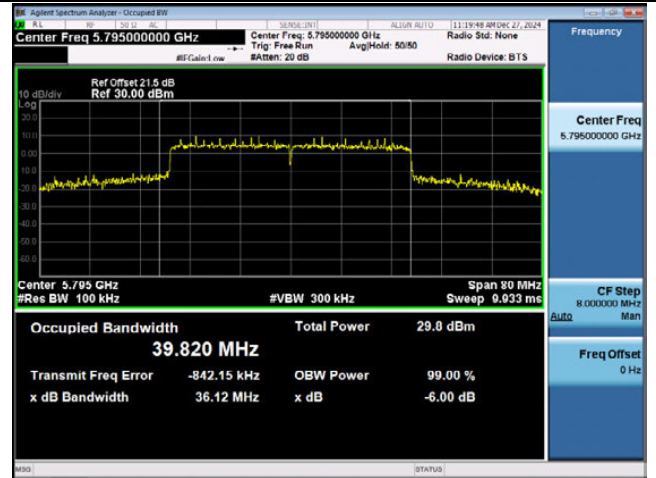


802.11ax-HE40 6dB Bandwidth

Channel 151 (5755MHz)



Channel 159 (5795MHz)



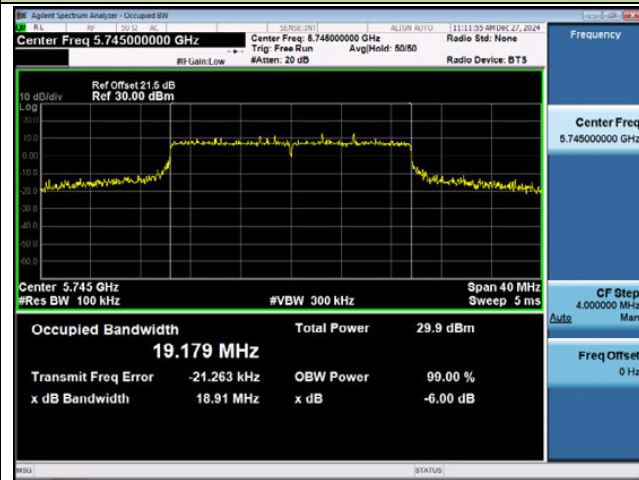
802.11ax-HE80 6dB Bandwidth

Channel 155 (5775MHz)

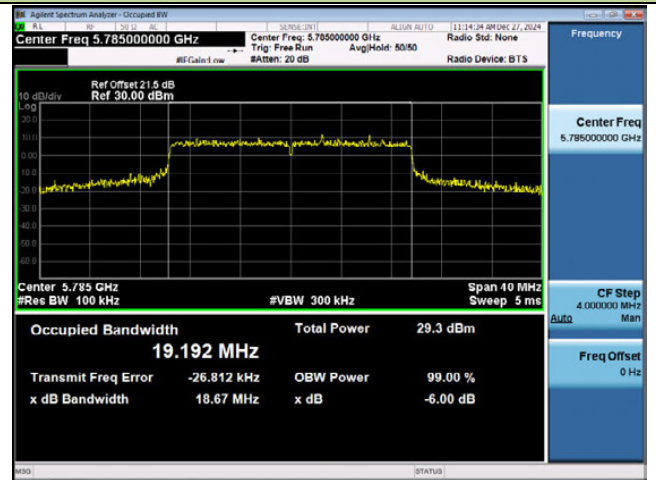


802.11be-EHT20 dB Bandwidth

Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

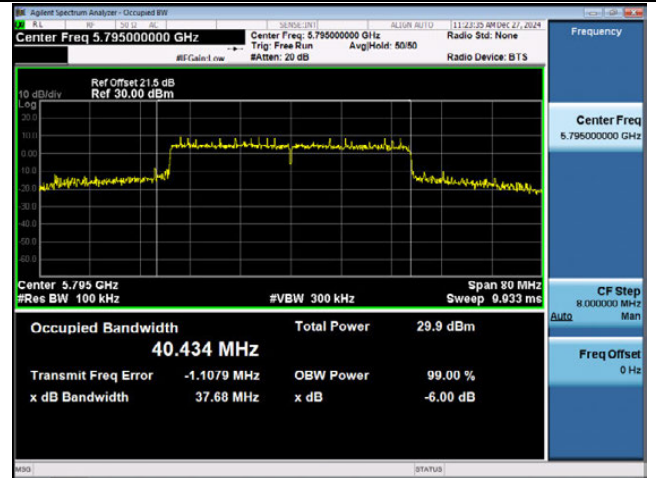


802.11be-EHT 40 6dB Bandwidth

Channel 151 (5755MHz)

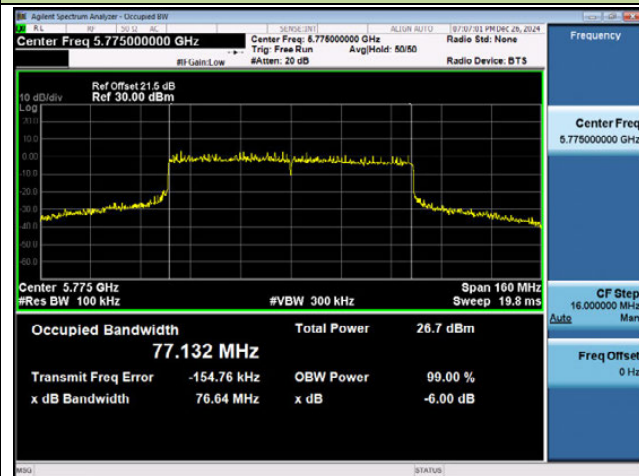


Channel 159 (5795MHz)



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.

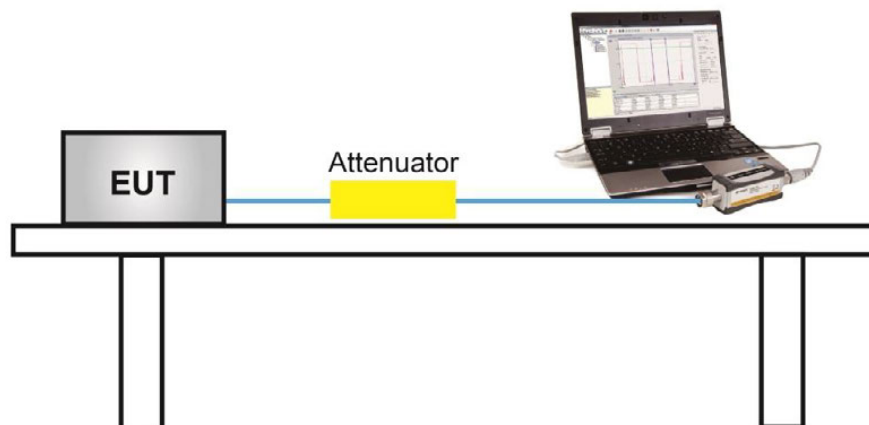
7.4.2. Test Procedure Used

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	Owen
Test Site	SR6	Test Date	2024/12/2~2024/12/26
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	18.82	19.51	22.19	≤ 29.91	Pass
11a	6Mbps	40	5200	22.12	22.99	25.59	≤ 29.91	Pass
11a	6Mbps	48	5240	21.97	22.44	25.22	≤ 29.91	Pass
11a	6Mbps	52	5260	16.27	16.40	19.35	≤ 23.83	Pass
11a	6Mbps	60	5300	16.25	16.74	19.51	≤ 23.83	Pass
11a	6Mbps	64	5320	16.00	16.35	19.19	≤ 23.83	Pass
11a	6Mbps	100	5500	17.25	16.95	20.11	≤ 23.98	Pass
11a	6Mbps	116	5580	17.00	17.36	20.19	≤ 23.98	Pass
11a	6Mbps	140	5700	15.73	17.05	19.45	≤ 23.98	Pass
11a	6Mbps	144	5720	16.11	17.70	19.99	≤ 22.92	Pass
11a	6Mbps	149	5745	26.37	25.85	29.13	≤ 30.00	Pass
11a	6Mbps	157	5785	26.44	26.04	29.25	≤ 30.00	Pass
11a	6Mbps	165	5825	25.26	25.36	28.32	≤ 30.00	Pass
11ac-VHT20	MCS0	36	5180	18.50	19.25	21.90	≤ 29.91	Pass
11ac-VHT20	MCS0	40	5200	22.80	23.10	25.96	≤ 29.91	Pass
11ac-VHT20	MCS0	48	5240	22.07	22.83	25.48	≤ 29.91	Pass
11ac-VHT20	MCS0	52	5260	16.10	16.36	19.24	≤ 23.83	Pass
11ac-VHT20	MCS0	60	5300	16.34	16.60	19.48	≤ 23.83	Pass
11ac-VHT20	MCS0	64	5320	16.21	17.99	20.20	≤ 23.83	Pass
11ac-VHT20	MCS0	100	5500	17.00	17.25	20.14	≤ 23.98	Pass
11ac-VHT20	MCS0	116	5580	17.27	17.75	20.53	≤ 23.98	Pass
11ac-VHT20	MCS0	140	5700	16.37	17.62	20.05	≤ 23.98	Pass
11ac-VHT20	MCS0	144	5720	16.62	18.23	20.51	≤ 22.95	Pass
11ac-VHT20	MCS0	149	5745	26.55	26.01	29.30	≤ 30.00	Pass
11ac-VHT20	MCS0	157	5785	26.49	25.88	29.21	≤ 30.00	Pass
11ac-VHT20	MCS0	165	5825	25.32	25.38	28.36	≤ 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	17.14	18.00	20.60	≤ 29.91	Pass
11ac-VHT40	MCS0	46	5230	24.40	24.70	27.56	≤ 29.91	Pass
11ac-VHT40	MCS0	54	5270	18.90	18.86	21.89	≤ 23.83	Pass
11ac-VHT40	MCS0	62	5310	17.99	18.13	21.07	≤ 23.83	Pass
11ac-VHT40	MCS0	102	5510	19.10	19.23	22.18	≤ 23.98	Pass
11ac-VHT40	MCS0	110	5550	20.35	20.55	23.46	≤ 23.98	Pass
11ac-VHT40	MCS0	134	5670	20.12	20.14	23.14	≤ 23.98	Pass
11ac-VHT40	MCS0	142	5710	20.20	20.88	23.56	≤ 23.98	Pass
11ac-VHT40	MCS0	151	5755	25.12	24.80	27.97	≤ 30.00	Pass
11ac-VHT40	MCS0	159	5795	26.11	25.90	29.02	≤ 30.00	Pass
11ac-VHT80	MCS0	42	5210	17.05	17.79	20.45	≤ 29.91	Pass
11ac-VHT80	MCS0	58	5290	16.08	16.73	19.43	≤ 23.83	Pass
11ac-VHT80	MCS0	106	5530	19.12	19.84	22.51	≤ 23.98	Pass
11ac-VHT80	MCS0	122	5610	20.82	20.54	23.69	≤ 23.98	Pass
11ac-VHT80	MCS0	138	5690	20.85	20.53	23.70	≤ 23.98	Pass
11ac-VHT80	MCS0	155	5775	23.00	22.92	25.97	≤ 30.00	Pass
11ac-VHT160	MCS0	50	5250	16.53	17.45	20.02	≤ 23.83	Pass
11ac-VHT160	MCS0	114	5570	17.66	18.80	21.28	≤ 23.98	Pass
11ax-HE20	MCS0	36	5180	18.16	19.00	21.61	≤ 29.91	Pass
11ax-HE20	MCS0	40	5200	22.51	23.30	25.93	≤ 29.91	Pass
11ax-HE20	MCS0	48	5240	22.46	23.00	25.75	≤ 29.91	Pass
11ax-HE20	MCS0	52	5260	16.68	16.51	19.61	≤ 23.83	Pass
11ax-HE20	MCS0	60	5300	16.52	17.10	19.83	≤ 23.83	Pass
11ax-HE20	MCS0	64	5320	16.42	16.91	19.68	≤ 23.83	Pass
11ax-HE20	MCS0	100	5500	16.71	16.69	19.71	≤ 23.98	Pass
11ax-HE20	MCS0	116	5580	17.68	18.20	20.96	≤ 23.98	Pass
11ax-HE20	MCS0	140	5700	16.09	17.46	19.84	≤ 23.98	Pass
11ax-HE20	MCS0	144	5720	16.59	18.13	20.44	≤ 22.98	Pass
11ax-HE20	MCS0	149	5745	26.55	26.14	29.36	≤ 30.00	Pass
11ax-HE20	MCS0	157	5785	26.63	25.90	29.29	≤ 30.00	Pass
11ax-HE20	MCS0	165	5825	25.49	25.58	28.55	≤ 30.00	Pass