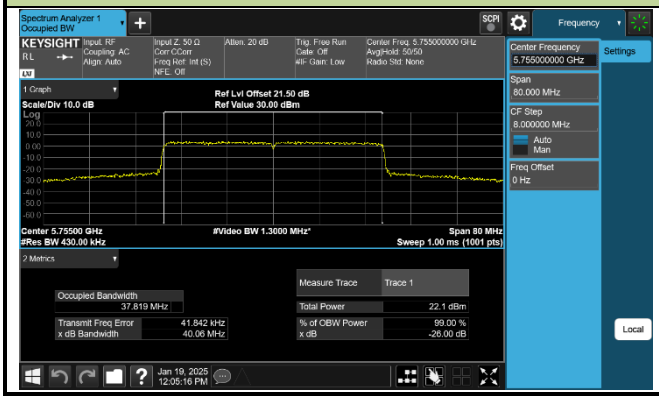
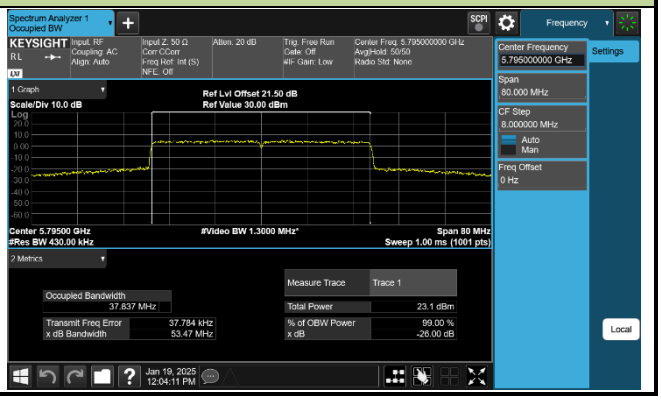
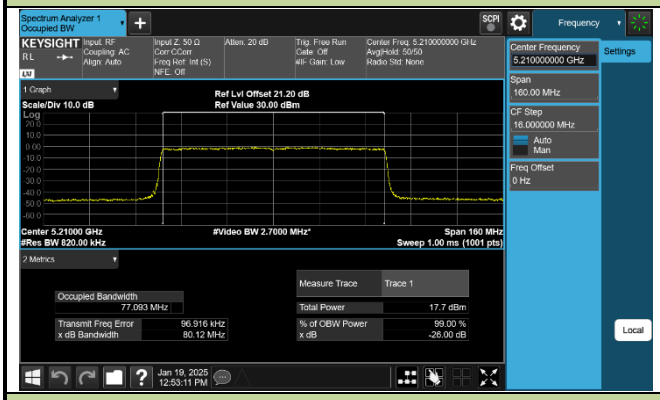
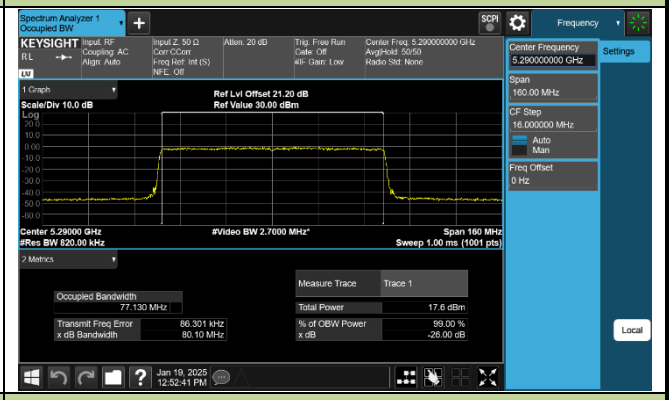
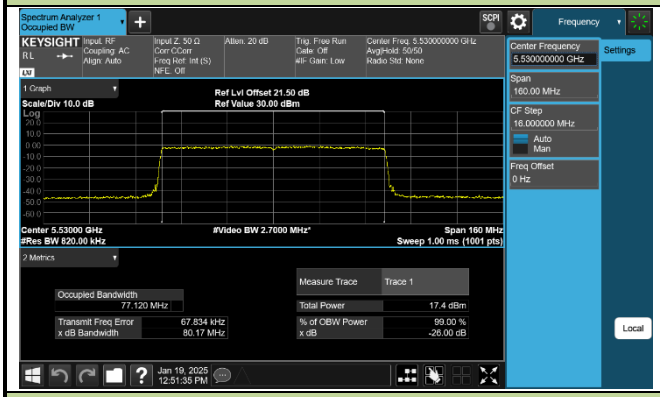
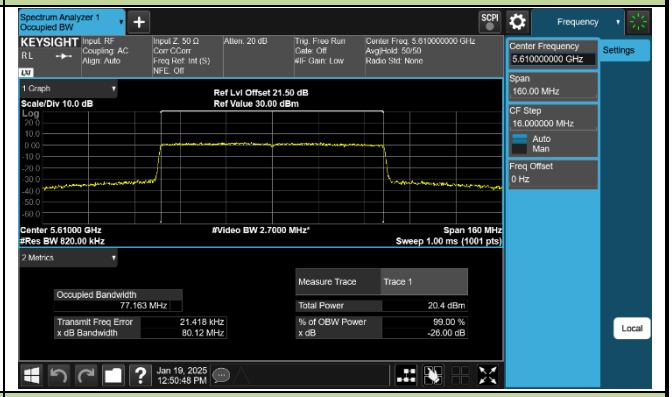
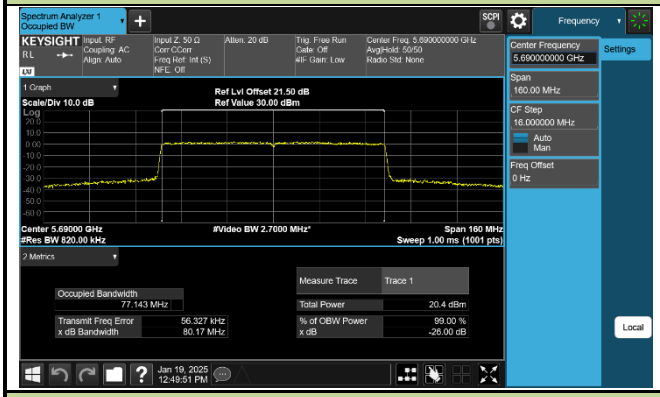
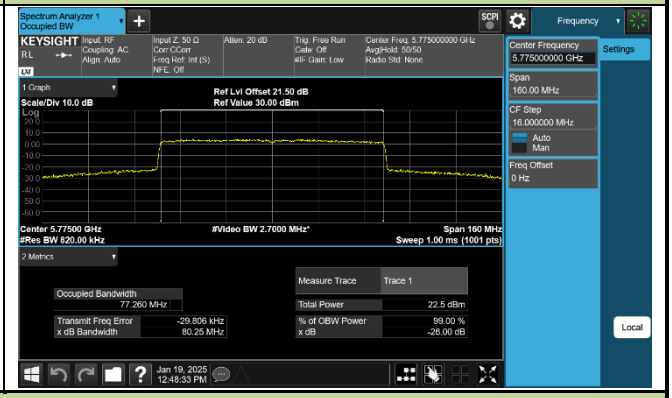
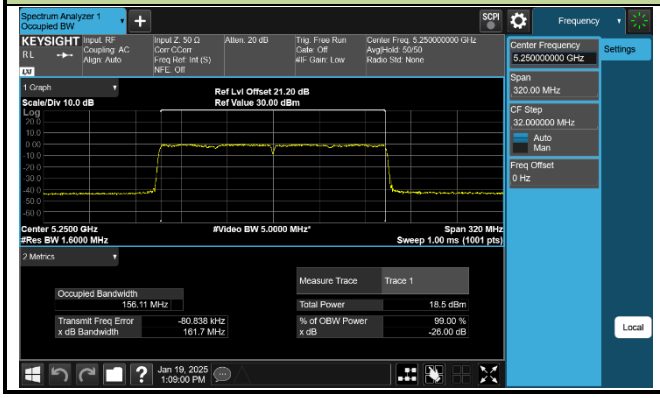
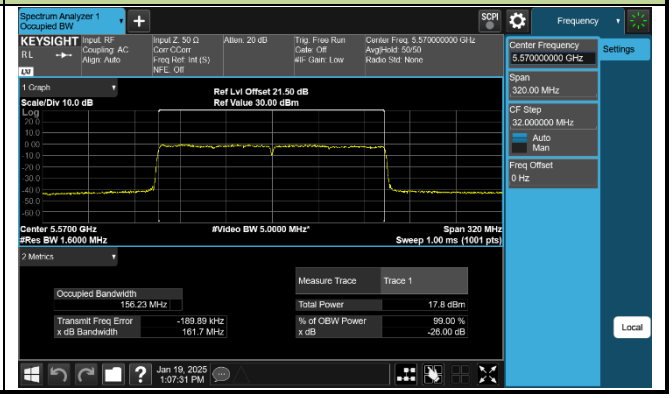
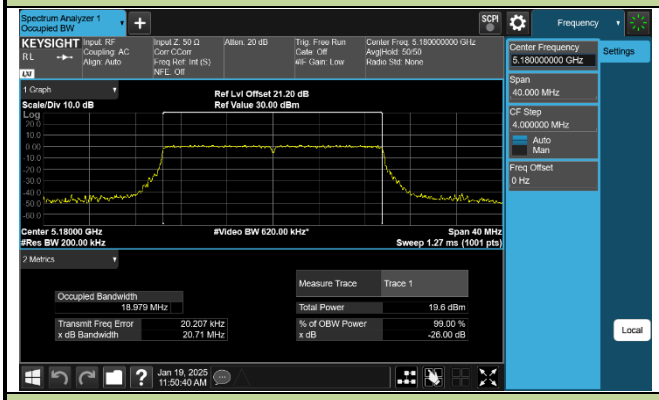
Channel 151 (5755MHz)	Channel 159 (5795MHz)
	

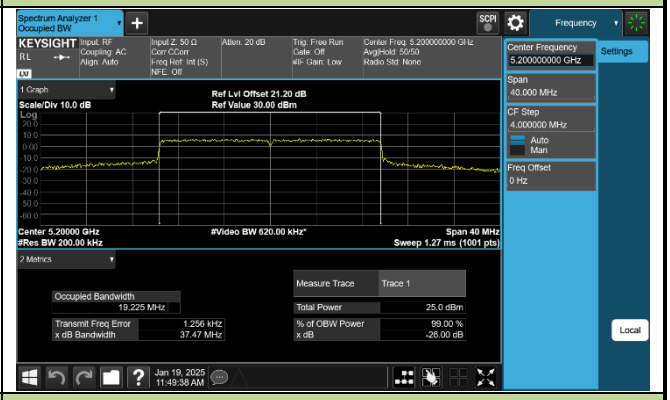
8802.11ax-HE80 26dB Bandwidth & 99% Bandwidth	
Channel 42 (5210MHz)	Channel 58 (5290MHz)
	
Channel 106 (5530MHz)	Channel 122 (5610MHz)
	
Channel 138 (5690MHz)	Channel 155 (5775MHz)
	
802.11ax-HE160 26dB Bandwidth & 99% Bandwidth	
Channel 50 (5250MHz)	Channel 114 (5570MHz)
	

802.11be-EHT20 26dB Bandwidth & 99% Bandwidth

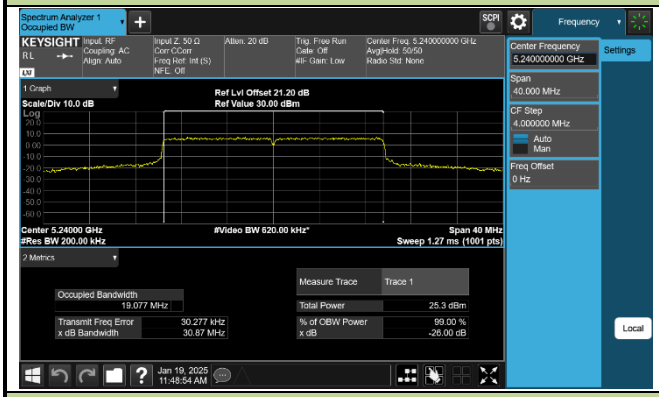
Channel 36 (5180MHz)



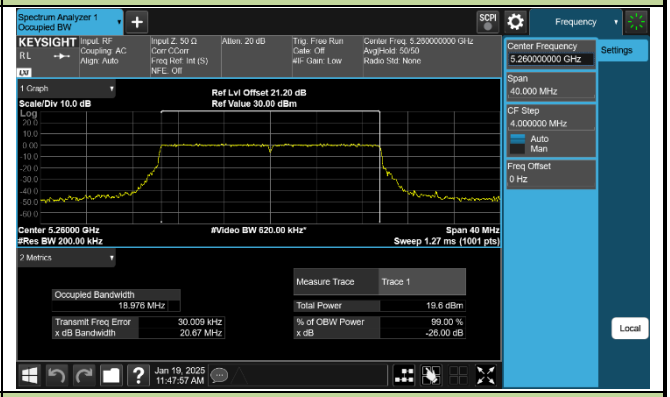
Channel 40 (5200MHz)



Channel 48 (5240MHz)

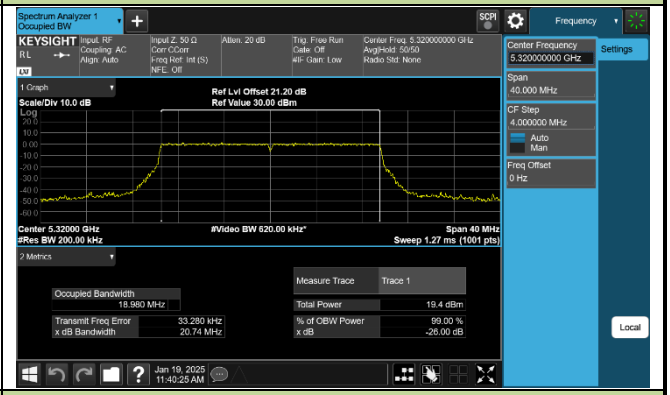


Channel 52 (5260MHz)

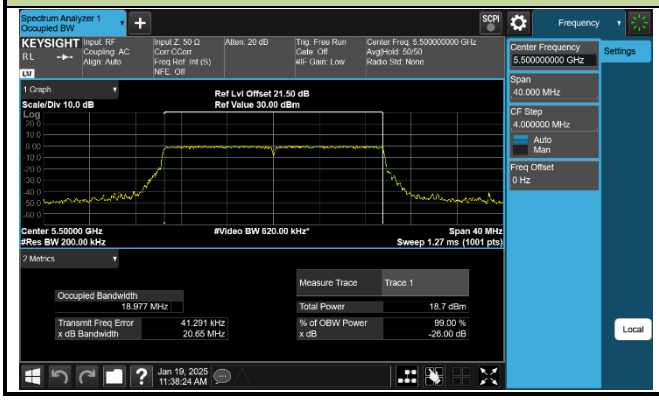


Channel 60 (5300MHz)

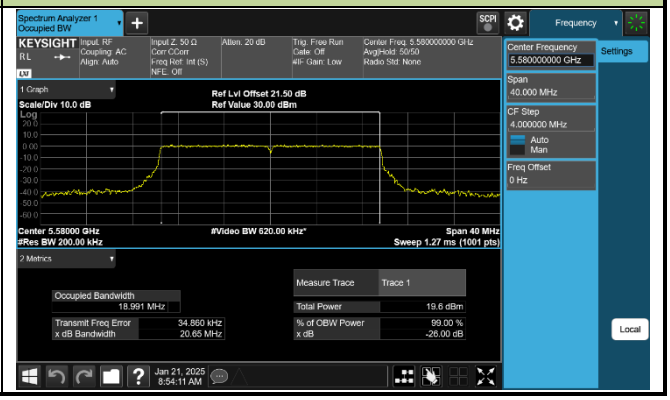
Channel 64 (5320MHz)

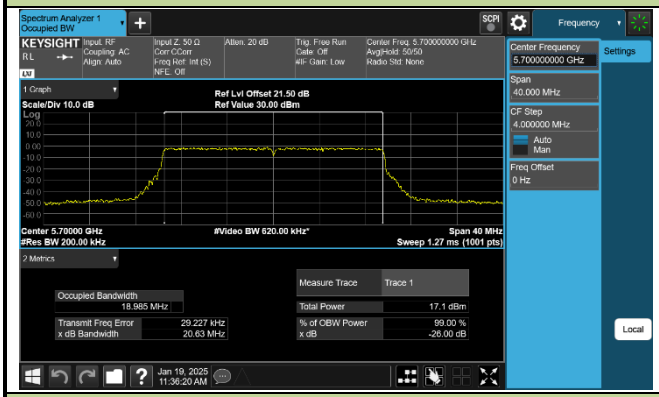
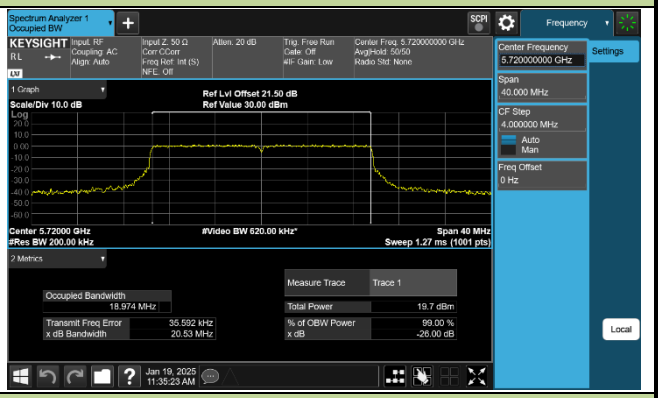
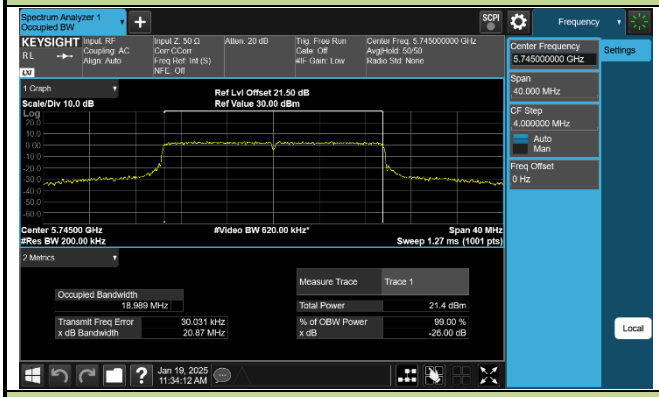
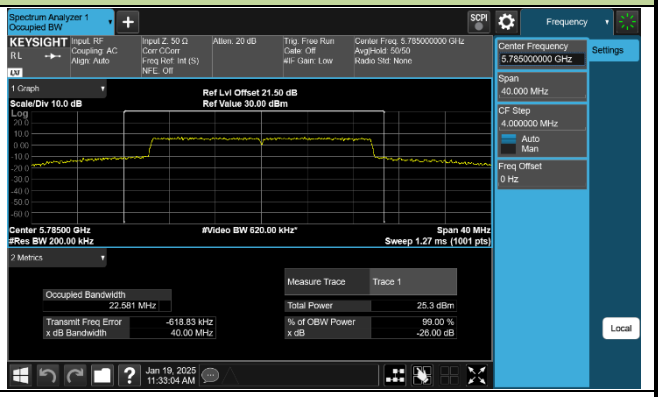
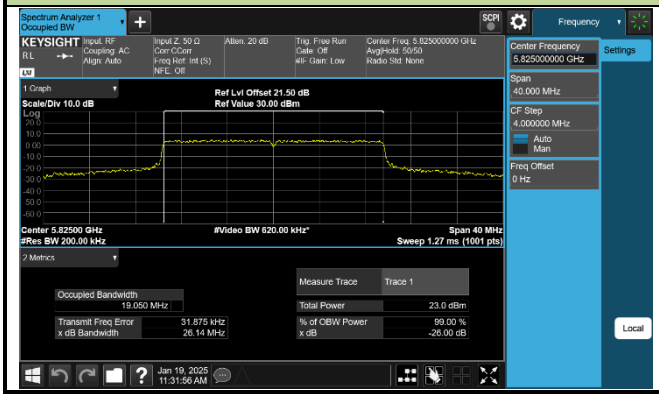


Channel 100 (5500MHz)



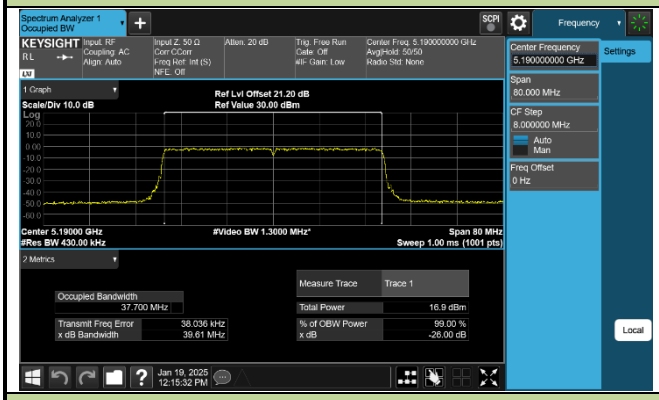
Channel 116 (5580MHz)



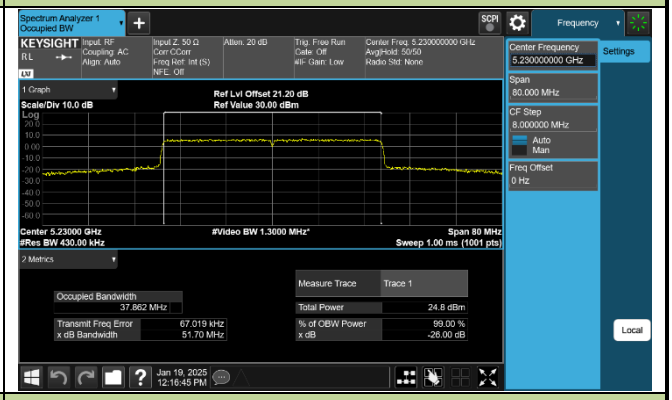
Channel 140 (5700MHz)	Channel 144 (5720MHz)
	
Channel 149 (5745MHz)	**Channel 144 (5785MHz)**
	
Channel 144 (5825MHz)	
	

802.11be-EHT40 26dB Bandwidth & 99% Bandwidth

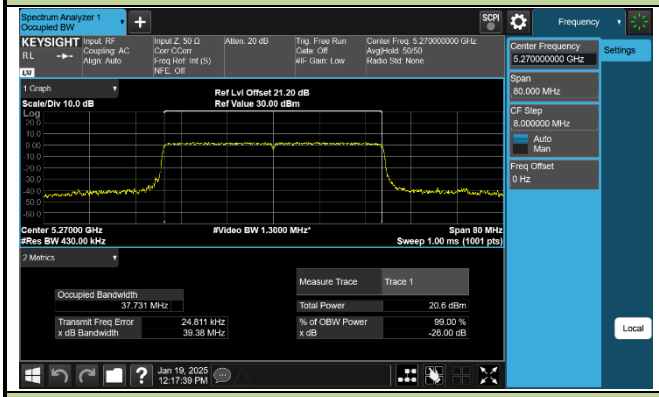
Channel 38 (5190MHz)



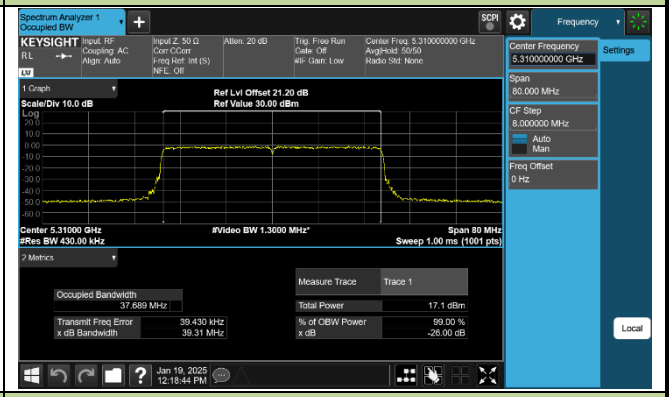
Channel 46 (5230MHz)



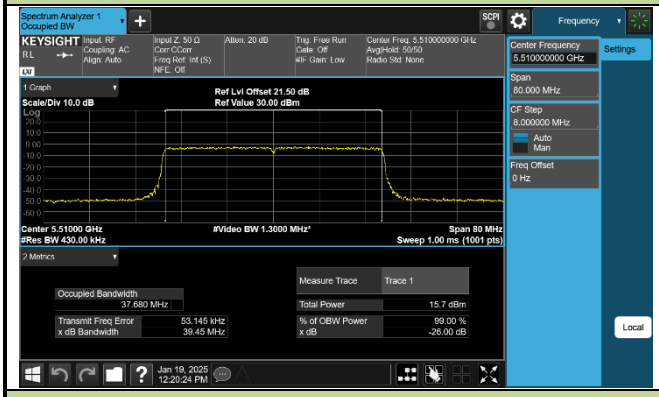
Channel 54 (5270MHz)



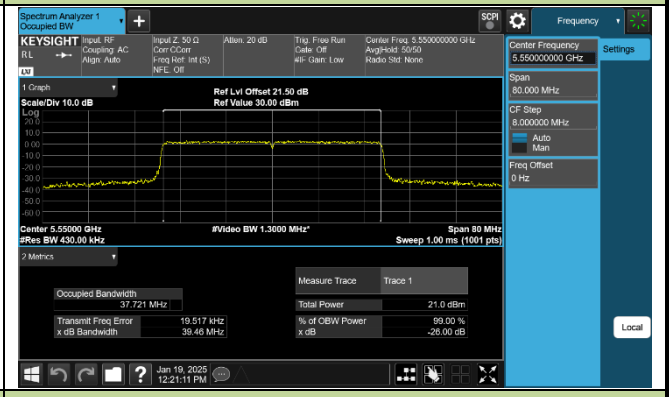
Channel 62 (5310MHz)



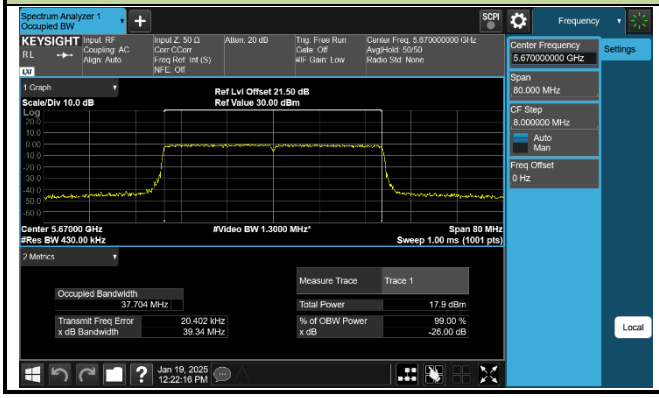
Channel 102 (5510MHz)



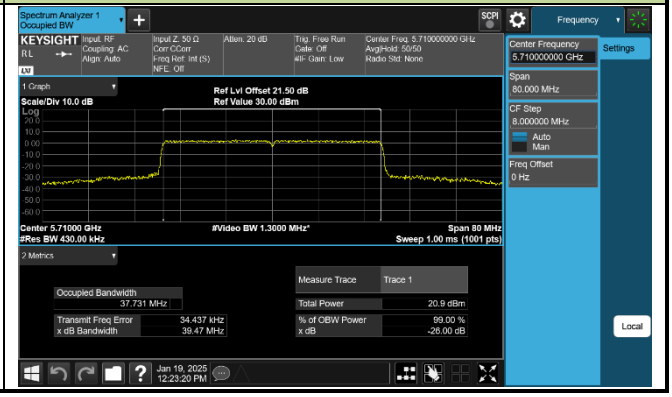
Channel 110 (5550MHz)

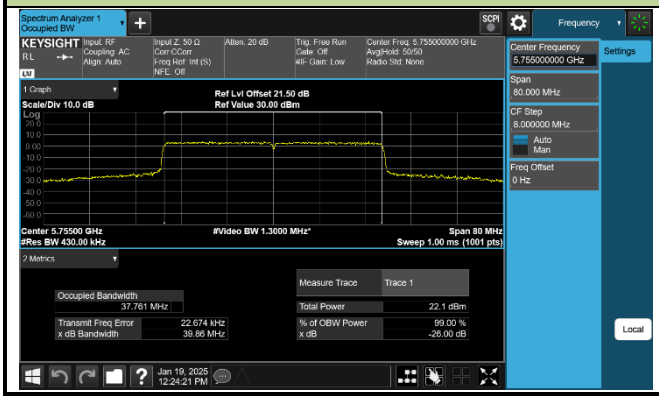
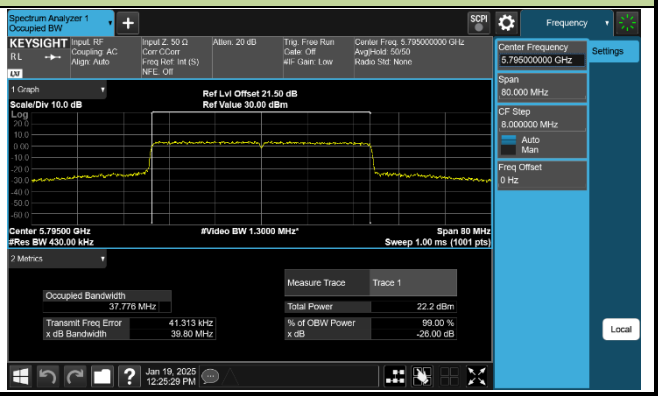


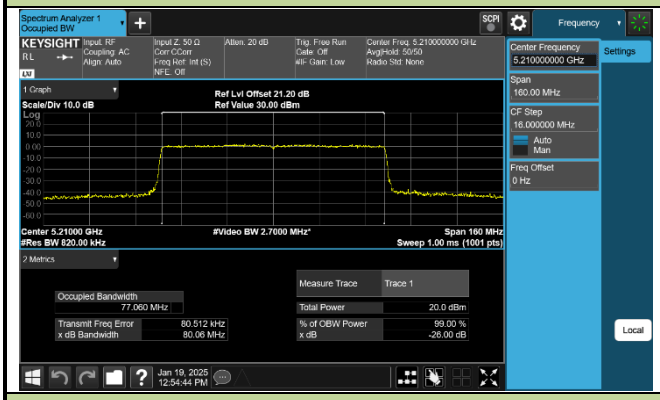
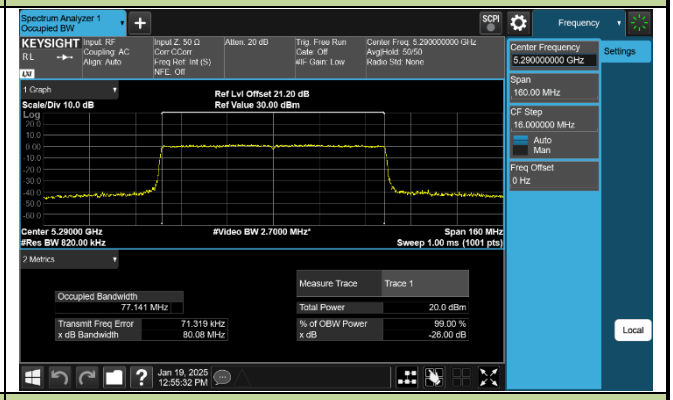
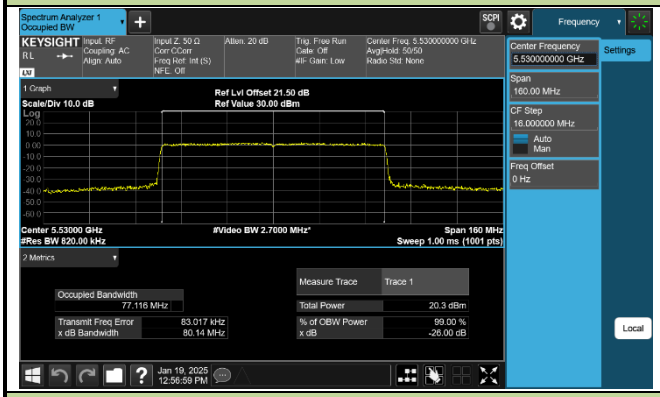
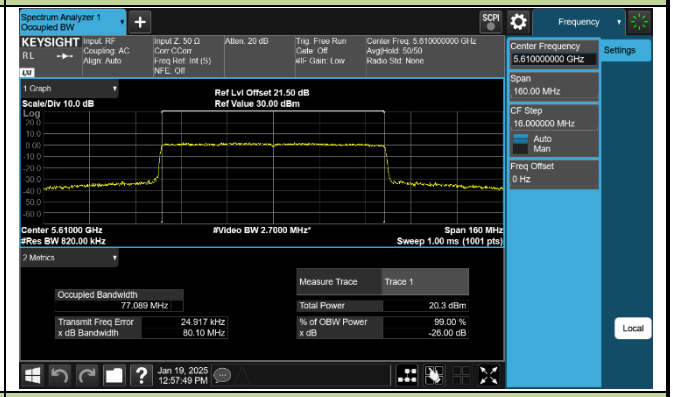
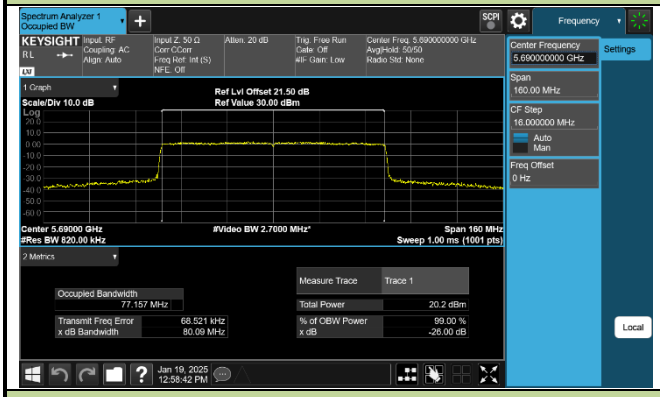
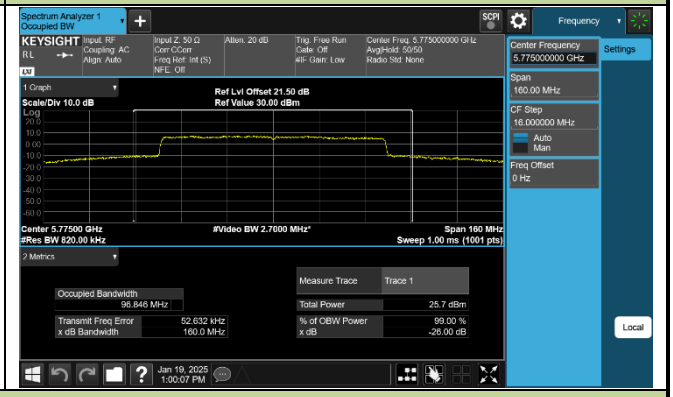
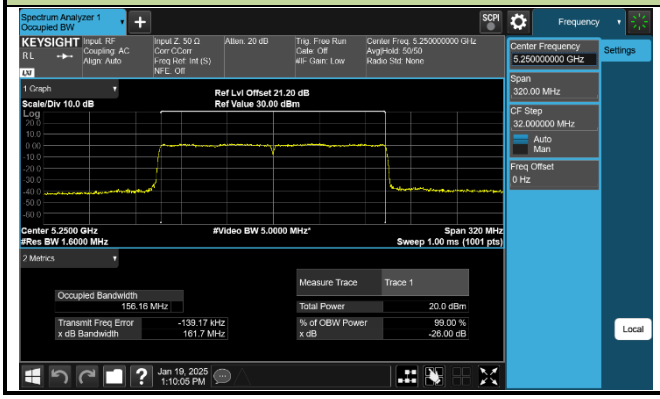
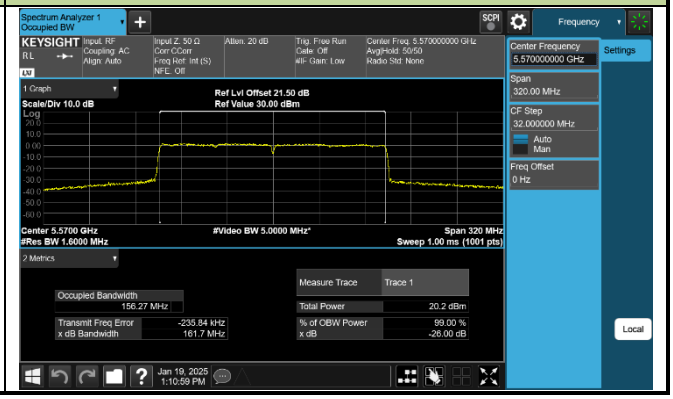
Channel 134 (5670MHz)



Channel 142 (5710MHz)



Channel 151 (5755MHz)	Channel 159 (5795MHz)
	

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 6dBbandwidth shall be at least 500 kHz.

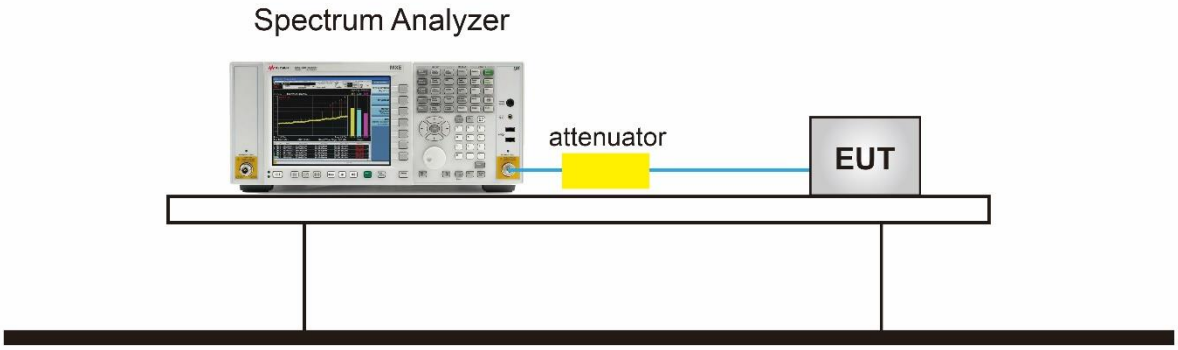
7.3.2.Test Procedure used

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 × 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



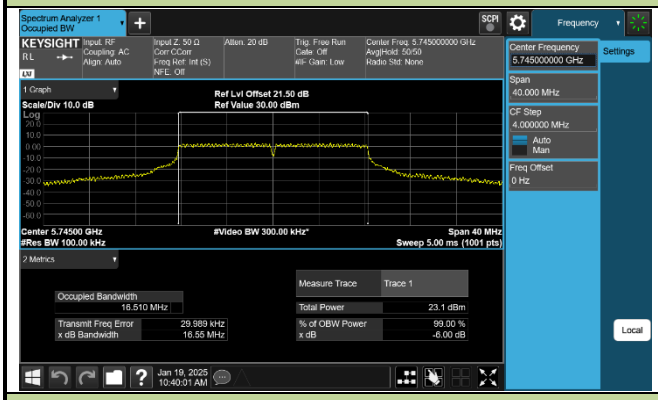
7.3.5.TestResult

Product	BE3600 Wi-Fi 7 Range Extender	Test Engineer	Marvin
Test Site	SR6	Test Date	2025/1/19

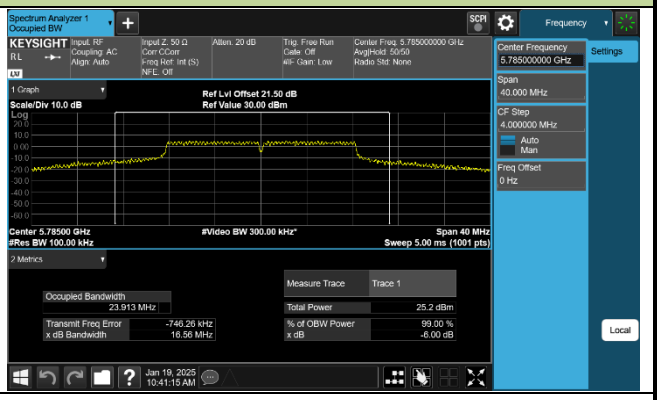
Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
Ant 1						
802.11a	6Mbps	149	5745	16.55	≥ 0.5	Pass
802.11a	6Mbps	157	5785	16.56	≥ 0.5	Pass
802.11a	6Mbps	165	5825	16.56	≥ 0.5	Pass
802.11ac-VHT20	MCS0	149	5745	17.81	≥ 0.5	Pass
802.11ac-VHT20	MCS0	157	5785	17.79	≥ 0.5	Pass
802.11ac-VHT20	MCS0	165	5825	17.80	≥ 0.5	Pass
802.11ac-VHT40	MCS0	151	5755	36.55	≥ 0.5	Pass
802.11ac-VHT40	MCS0	159	5795	36.53	≥ 0.5	Pass
802.11ac-VHT80	MCS0	155	5775	76.49	≥ 0.5	Pass
802.11ax-HE20	MCS0	149	5745	19.20	≥ 0.5	Pass
802.11ax-HE20	MCS0	157	5785	19.19	≥ 0.5	Pass
802.11ax-HE20	MCS0	165	5825	19.18	≥ 0.5	Pass
802.11ax-HE40	MCS0	151	5755	38.19	≥ 0.5	Pass
802.11ax-HE40	MCS0	159	5795	38.22	≥ 0.5	Pass
802.11ax-HE80	MCS0	155	5775	78.17	≥ 0.5	Pass
802.11be-EHT20	MCS0	149	5745	19.19	≥ 0.5	Pass
802.11be-EHT20	MCS0	157	5785	19.18	≥ 0.5	Pass
802.11be-EHT20	MCS0	165	5825	19.19	≥ 0.5	Pass
802.11be-EHT40	MCS0	151	5755	38.20	≥ 0.5	Pass
802.11be-EHT40	MCS0	159	5795	38.19	≥ 0.5	Pass
802.11be-EHT80	MCS0	155	5775	78.14	≥ 0.5	Pass

802.11a 6dB Bandwidth

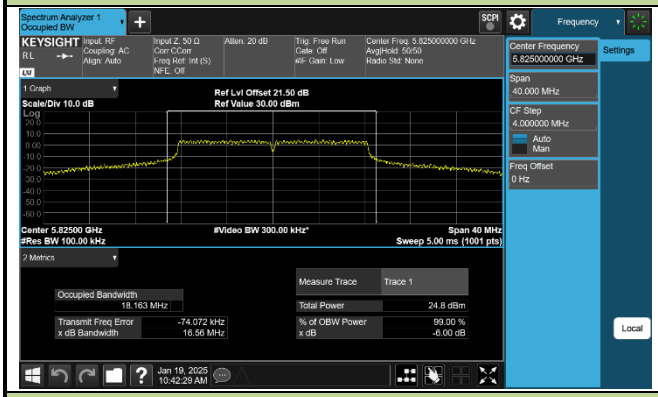
Channel 149 (5745MHz)



Channel 157 (5785MHz)

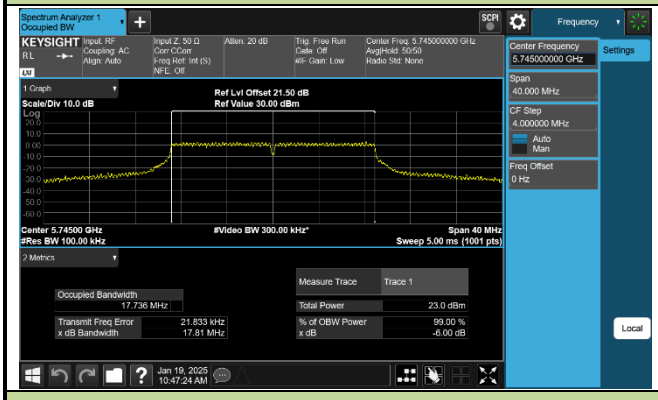


Channel 165 (5825MHz)

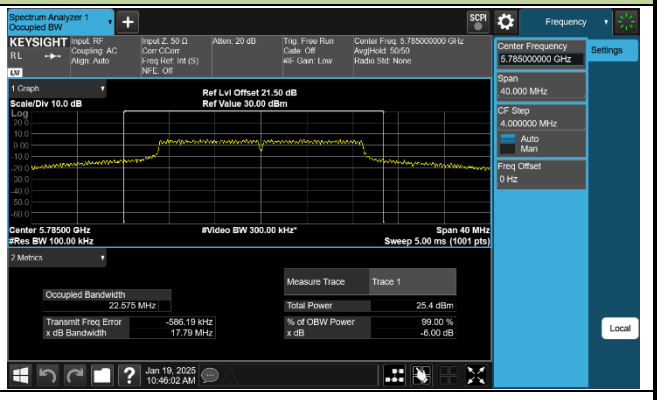


802.11ac-VHT20 6dB Bandwidth

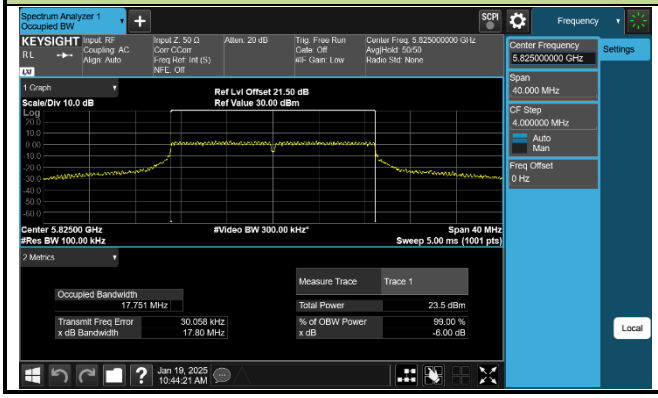
Channel 149 (5745MHz)

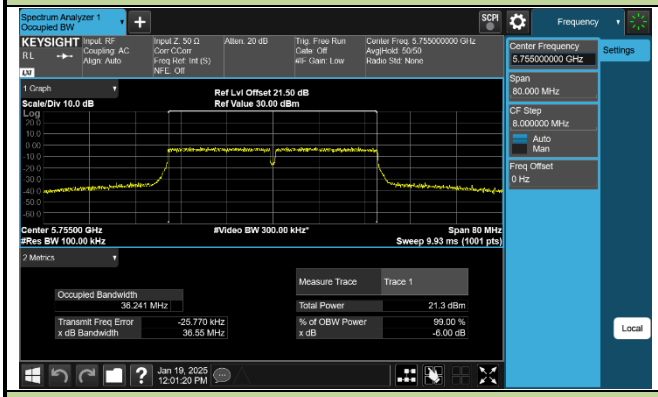
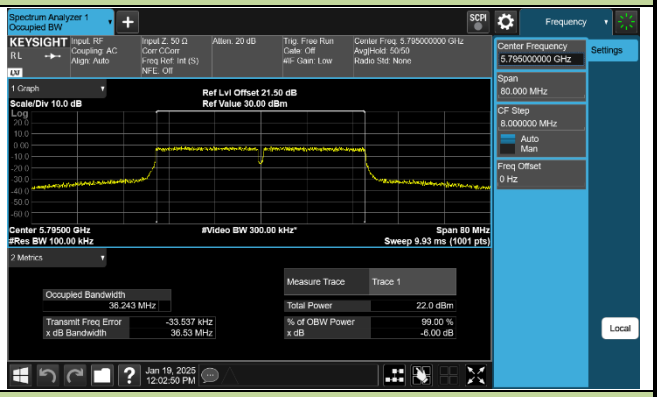
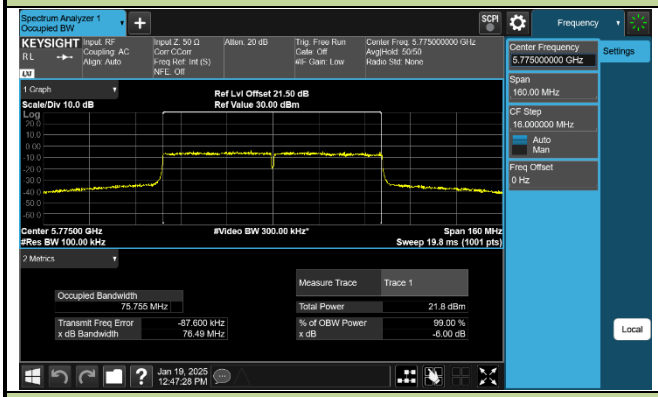
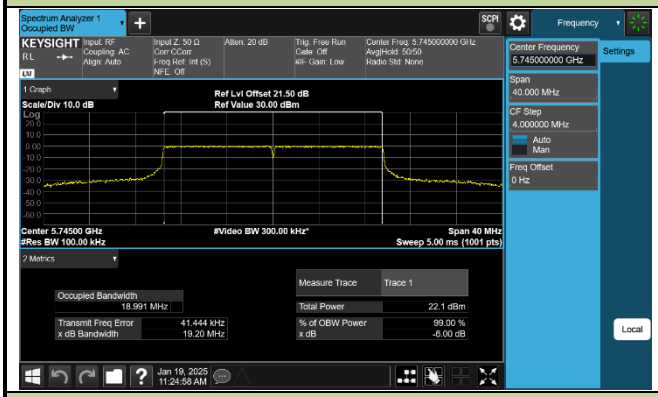
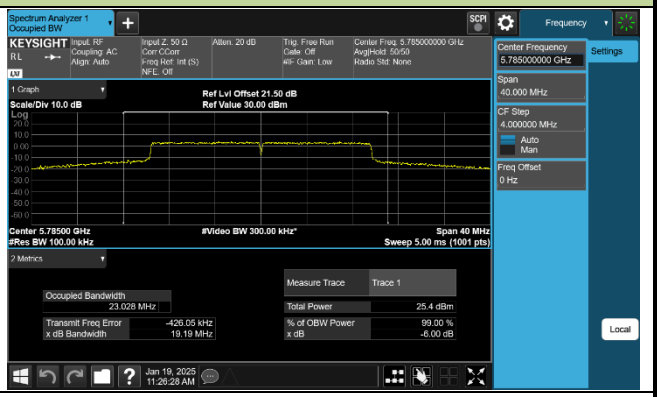
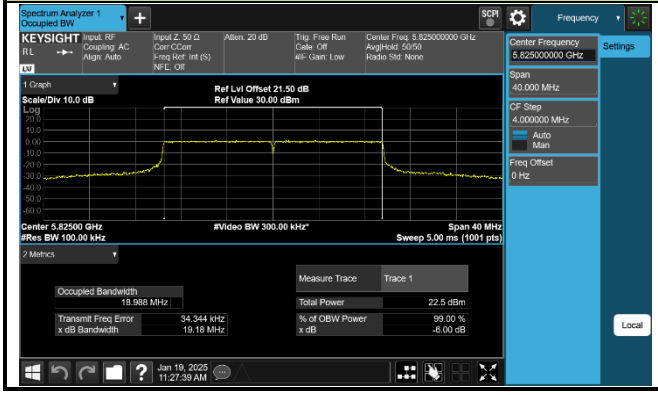


Channel 157 (5785MHz)



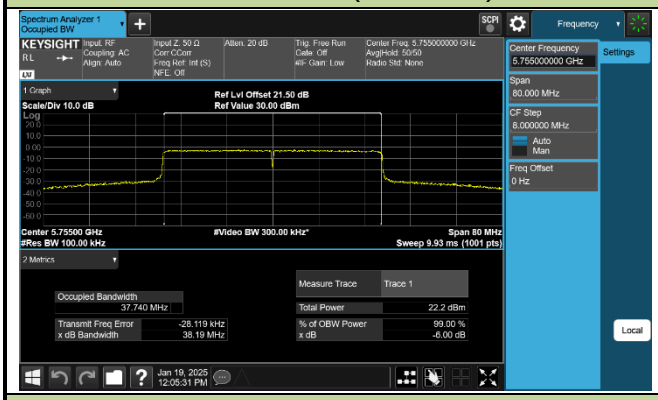
Channel 165 (5825MHz)



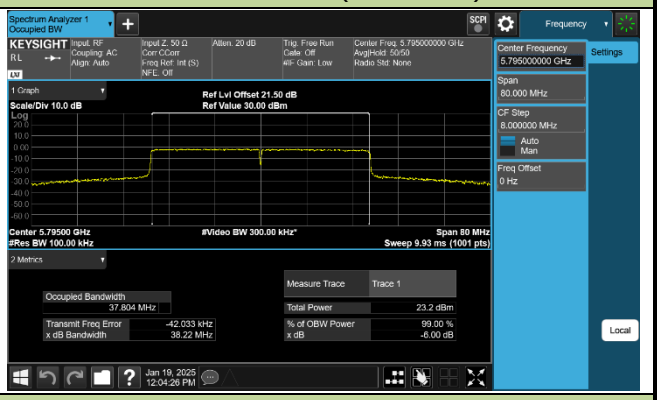
802.11ac-VHT40 6dB Bandwidth	
Channel 151 (5755MHz)	Channel 159 (5795MHz)
	
802.11ac-VHT80 6dB Bandwidth	
Channel 155 (5775MHz)	
	
802.11ax-HE20 6dB Bandwidth	
Channel 149 (5745MHz)	Channel 157 (5785MHz)
	
Channel 165 (5825MHz)	
	

802.11ax-HE40 6dB Bandwidth

Channel 151 (5755MHz)

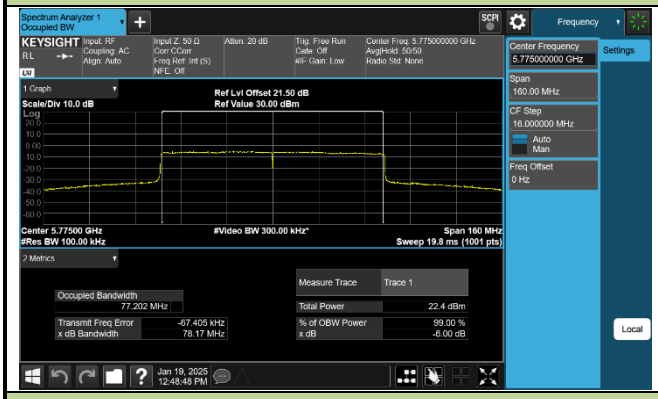


Channel 159 (5795MHz)



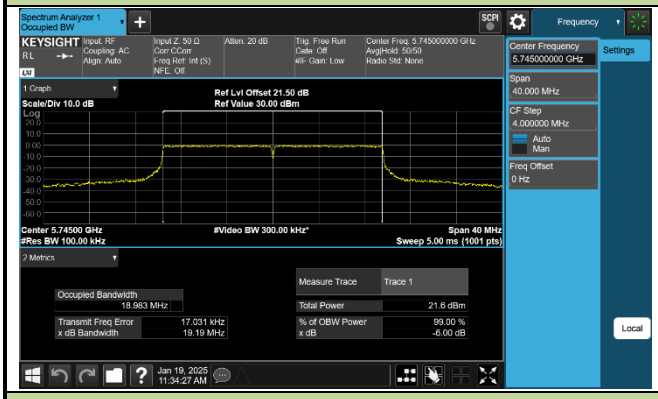
802.11ax-HE80 6dB Bandwidth

Channel 155 (5775MHz)



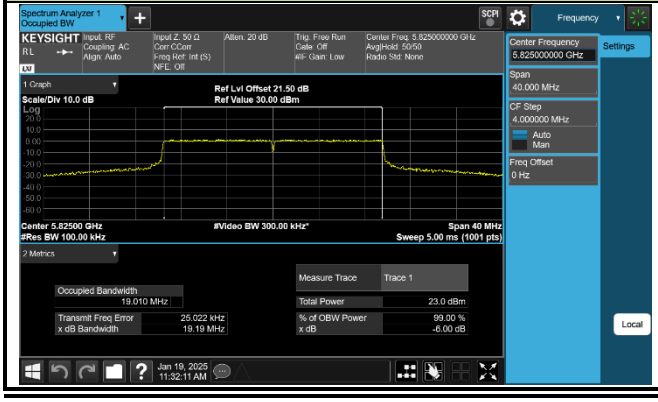
802.11be-EHT20 6dB Bandwidth

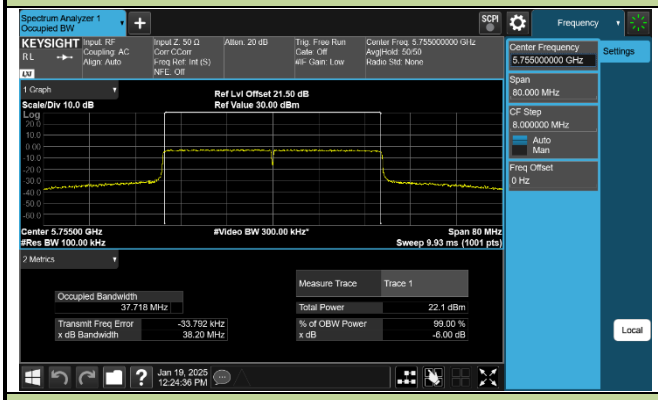
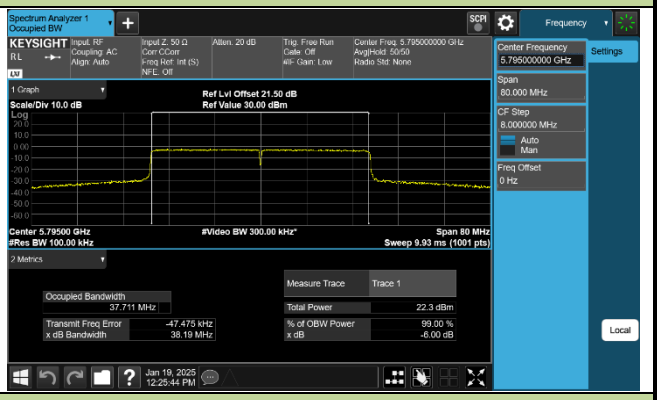
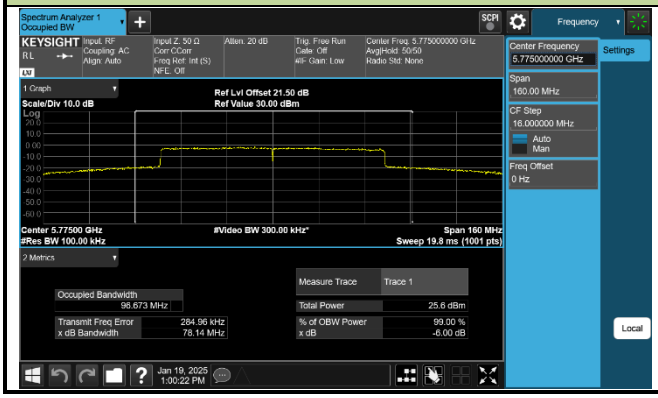
Channel 149 (5745MHz)



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 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.

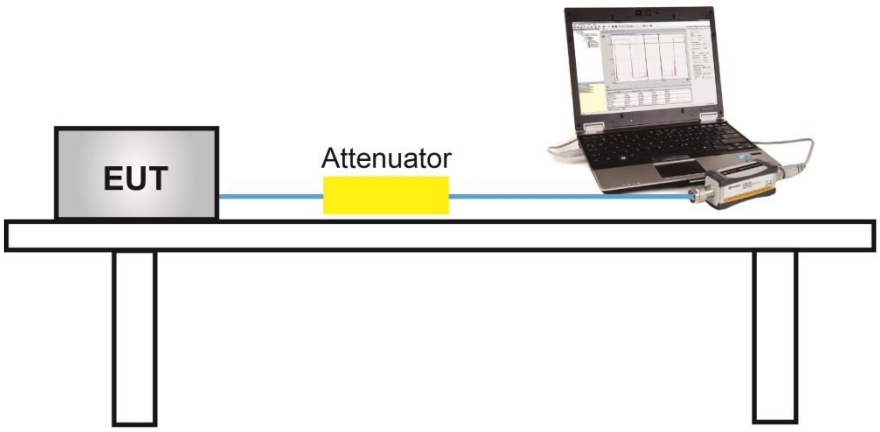
7.4.2.Test Procedure Used

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	BE3600 Wi-Fi 7 Range Extender	Test Engineer	Jung
Test Site	SR6	Test Date	2025/1/23
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	18.92	19.09	22.02	≤ 30.00	Pass
11a	6Mbps	40	5200	25.20	25.53	28.38	≤ 30.00	Pass
11a	6Mbps	48	5240	24.74	25.24	28.01	≤ 30.00	Pass
11a	6Mbps	52	5260	18.69	19.03	21.87	≤ 23.98	Pass
11a	6Mbps	60	5300	18.43	19.09	21.78	≤ 23.98	Pass
11a	6Mbps	64	5320	18.45	18.86	21.67	≤ 23.98	Pass
11a	6Mbps	100	5500	16.96	17.78	20.40	≤ 23.98	Pass
11a	6Mbps	116	5580	18.08	19.17	21.67	≤ 23.98	Pass
11a	6Mbps	140	5700	17.00	18.09	20.59	≤ 23.98	Pass
11a	6Mbps	144	5720	18.20	19.19	21.73	≤22.88	Pass
11a	6Mbps	149	5745	21.97	22.93	25.49	≤ 30.00	Pass
11a	6Mbps	157	5785	24.19	25.87	28.12	≤ 30.00	Pass
11a	6Mbps	165	5825	23.78	25.04	27.47	≤ 30.00	Pass
11ac-VHT20	MCS0	36	5180	20.05	19.93	23.00	≤ 30.00	Pass
11ac-VHT20	MCS0	40	5200	24.88	25.70	28.32	≤ 30.00	Pass
11ac-VHT20	MCS0	48	5240	24.42	25.25	27.87	≤ 30.00	Pass
11ac-VHT20	MCS0	52	5260	18.76	19.49	22.15	≤ 23.98	Pass
11ac-VHT20	MCS0	60	5300	18.85	19.12	22.00	≤ 23.98	Pass
11ac-VHT20	MCS0	64	5320	18.67	19.20	21.95	≤ 23.98	Pass
11ac-VHT20	MCS0	100	5500	18.06	18.95	21.54	≤ 23.98	Pass
11ac-VHT20	MCS0	116	5580	18.67	20.00	22.40	≤ 23.98	Pass
11ac-VHT20	MCS0	140	5700	17.45	18.59	21.07	≤ 23.98	Pass
11ac-VHT20	MCS0	144	5720	18.70	19.53	22.15	≤22.91	Pass
11ac-VHT20	MCS0	149	5745	22.04	23.12	25.62	≤ 30.00	Pass
11ac-VHT20	MCS0	157	5785	24.21	25.87	28.13	≤ 30.00	Pass
11ac-VHT20	MCS0	165	5825	22.46	24.05	26.34	≤ 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	18.33	17.92	21.14	≤ 30.00	Pass
11ac-VHT40	MCS0	46	5230	25.30	24.98	28.15	≤ 30.00	Pass
11ac-VHT40	MCS0	54	5270	20.58	20.54	23.57	≤ 23.98	Pass
11ac-VHT40	MCS0	62	5310	18.34	17.93	21.15	≤ 23.98	Pass
11ac-VHT40	MCS0	102	5510	16.37	17.17	19.80	≤ 23.98	Pass
11ac-VHT40	MCS0	110	5550	20.28	21.47	23.93	≤ 23.98	Pass
11ac-VHT40	MCS0	134	5670	19.21	20.38	22.84	≤23.98	Pass
11ac-VHT40	MCS0	142	5710	20.25	21.34	23.84	≤23.98	Pass
11ac-VHT40	MCS0	151	5755	20.04	21.63	23.92	≤ 30.00	Pass
11ac-VHT40	MCS0	159	5795	20.93	22.30	24.68	≤ 30.00	Pass
11ac-VHT80	MCS0	42	5210	17.70	17.70	20.71	≤ 30.00	Pass
11ac-VHT80	MCS0	58	5290	17.60	17.63	20.63	≤ 23.98	Pass
11ac-VHT80	MCS0	106	5530	16.17	17.03	19.63	≤ 23.98	Pass
11ac-VHT80	MCS0	122	5610	19.39	20.78	23.15	≤ 23.98	Pass
11ac-VHT80	MCS0	138	5690	19.43	20.65	23.09	≤ 23.98	Pass
11ac-VHT80	MCS0	155	5775	20.45	22.12	24.38	≤ 30.00	Pass
11ac-VHT160	MCS0	50	5250	15.70	15.80	18.76	≤ 23.98	Pass
11ac-VHT160	MCS0	114	5570	14.30	15.21	17.79	≤ 23.98	Pass
11ax-HE20	MCS0	36	5180	19.79	19.87	22.84	≤ 30.00	Pass
11ax-HE20	MCS0	40	5200	24.83	25.47	28.17	≤ 30.00	Pass
11ax-HE20	MCS0	48	5240	24.76	25.50	28.16	≤ 30.00	Pass
11ax-HE20	MCS0	52	5260	19.25	19.55	22.41	≤ 23.98	Pass
11ax-HE20	MCS0	60	5300	19.06	19.47	22.28	≤ 23.98	Pass
11ax-HE20	MCS0	64	5320	19.15	19.53	22.35	≤ 23.98	Pass
11ax-HE20	MCS0	100	5500	17.15	18.11	20.67	≤ 23.98	Pass
11ax-HE20	MCS0	116	5580	18.93	19.92	22.46	≤ 23.98	Pass
11ax-HE20	MCS0	140	5700	16.51	17.40	19.99	≤ 23.98	Pass
11ax-HE20	MCS0	144	5720	19.16	20.04	22.63	≤ 22.87	Pass
11ax-HE20	MCS0	149	5745	20.66	22.26	24.54	≤ 30.00	Pass
11ax-HE20	MCS0	157	5785	24.21	25.80	28.09	≤ 30.00	Pass
11ax-HE20	MCS0	165	5825	21.33	22.99	25.25	≤ 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	17.65	17.36	20.52	≤ 30.00	Pass
11ax-HE40	MCS0	46	5230	25.26	24.90	28.09	≤ 30.00	Pass
11ax-HE40	MCS0	54	5270	20.93	20.82	23.89	≤ 23.98	Pass
11ax-HE40	MCS0	62	5310	18.13	17.91	21.03	≤ 23.98	Pass
11ax-HE40	MCS0	102	5510	16.28	17.17	19.76	≤ 23.98	Pass
11ax-HE40	MCS0	110	5550	20.32	21.44	23.93	≤ 23.98	Pass
11ax-HE40	MCS0	134	5670	18.05	19.08	21.61	≤ 23.98	Pass
11ax-HE40	MCS0	142	5710	20.15	21.23	23.73	≤ 23.98	Pass
11ax-HE40	MCS0	151	5755	21.00	22.35	24.74	≤ 30.00	Pass
11ax-HE40	MCS0	159	5795	21.90	23.44	25.75	≤ 30.00	Pass
11ax-HE80	MCS0	42	5210	18.00	17.97	21.00	≤ 30.00	Pass
11ax-HE80	MCS0	58	5290	17.51	17.76	20.65	≤ 23.98	Pass
11ax-HE80	MCS0	106	5530	16.82	17.82	20.36	≤ 23.98	Pass
11ax-HE80	MCS0	122	5610	19.46	20.79	23.19	≤ 23.98	Pass
11ax-HE80	MCS0	138	5690	19.50	20.61	23.10	≤ 23.98	Pass
11ax-HE80	MCS0	155	5775	21.07	22.46	24.83	≤ 30.00	Pass
11ax-HE160	MCS0	50	5250	18.64	18.57	21.62	≤ 23.98	Pass
11ax-HE160	MCS0	114	5570	17.27	18.00	20.66	≤ 23.98	Pass
11be-EHT20	MCS0	36	5180	19.56	19.91	22.75	≤ 30.00	Pass
11be-EHT20	MCS0	40	5200	24.94	25.43	28.20	≤ 30.00	Pass
11be-EHT20	MCS0	48	5240	24.85	25.41	28.15	≤ 30.00	Pass
11be-EHT20	MCS0	52	5260	19.15	19.71	22.45	≤ 23.98	Pass
11be-EHT20	MCS0	60	5300	19.29	19.63	22.47	≤ 23.98	Pass
11be-EHT20	MCS0	64	5320	19.26	19.68	22.49	≤ 23.98	Pass
11be-EHT20	MCS0	100	5500	17.77	18.96	21.42	≤ 23.98	Pass
11be-EHT20	MCS0	116	5580	18.95	19.88	22.45	≤ 23.98	Pass
11be-EHT20	MCS0	140	5700	16.59	17.31	19.98	≤ 23.98	Pass
11be-EHT20	MCS0	144	5720	19.26	20.12	22.72	≤ 22.84	Pass
11be-EHT20	MCS0	149	5745	20.16	21.76	24.04	≤ 30.00	Pass
11be-EHT20	MCS0	157	5785	24.37	25.60	28.04	≤ 30.00	Pass
11be-EHT20	MCS0	165	5825	22.10	23.47	25.85	≤ 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	17.54	17.32	20.44	≤ 30.00	Pass
11be-EHT40	MCS0	46	5230	25.08	24.99	28.05	≤ 30.00	Pass
11be-EHT40	MCS0	54	5270	20.65	20.73	23.70	≤ 23.98	Pass
11be-EHT40	MCS0	62	5310	17.47	17.16	20.33	≤ 23.98	Pass
11be-EHT40	MCS0	102	5510	15.17	16.23	18.74	≤ 23.98	Pass
11be-EHT40	MCS0	110	5550	20.22	21.43	23.88	≤ 23.98	Pass
11be-EHT40	MCS0	134	5670	17.38	18.38	20.92	≤ 23.98	Pass
11be-EHT40	MCS0	142	5710	20.09	21.27	23.73	≤ 23.98	Pass
11be-EHT40	MCS0	151	5755	20.85	22.29	24.64	≤ 30.00	Pass
11be-EHT40	MCS0	159	5795	21.20	21.71	24.47	≤ 30.00	Pass
11be-EHT80	MCS0	42	5210	16.70	16.83	19.78	≤ 30.00	Pass
11be-EHT80	MCS0	58	5290	17.22	17.68	20.47	≤ 23.98	Pass
11be-EHT80	MCS0	106	5530	15.33	16.17	18.78	≤ 23.98	Pass
11be-EHT80	MCS0	122	5610	19.35	20.59	23.02	≤ 23.98	Pass
11be-EHT80	MCS0	138	5690	19.38	20.54	23.01	≤ 23.98	Pass
11be-EHT80	MCS0	155	5775	21.00	22.12	24.61	≤ 30.00	Pass
11be-EHT160	MCS0	50	5250	18.36	18.38	21.38	≤ 23.98	Pass
11be-EHT160	MCS0	114	5570	16.22	17.20	19.75	≤ 23.98	Pass

Note 1:

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

Note 2:

For 5250- 5350MHz and 5470 - 5725MHz Band: Average Power Limit (dBm) = 23.98 dBm.

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

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

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.

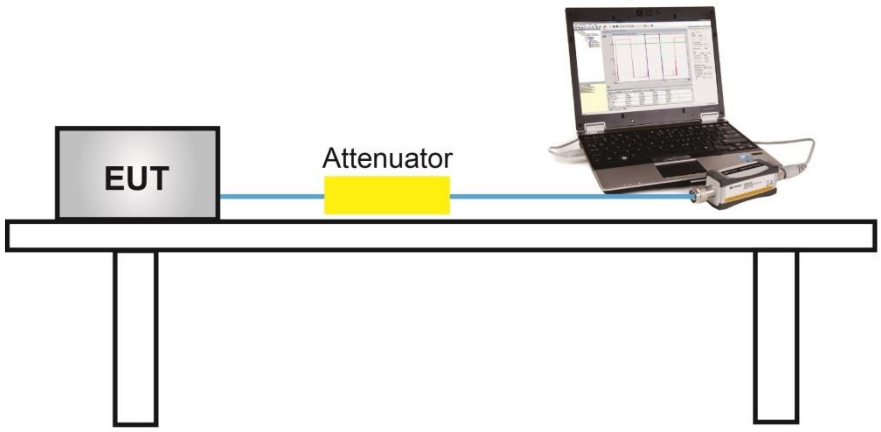
7.5.2.Test Procedure Used

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.

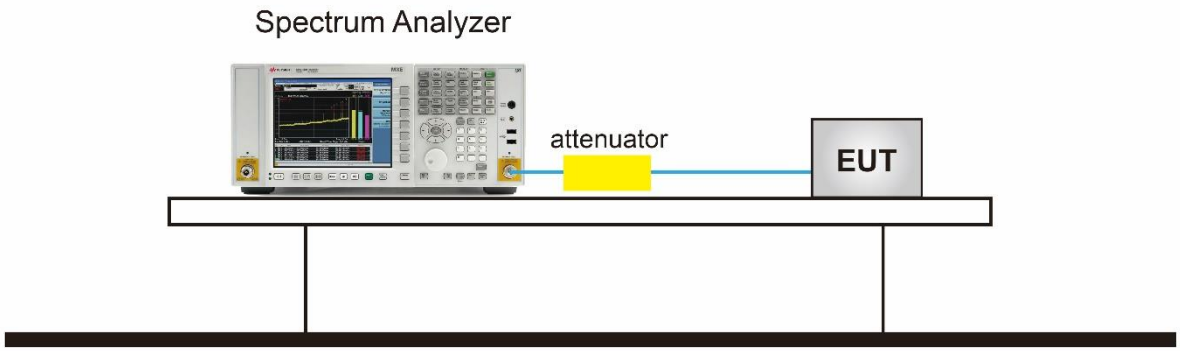
7.6.2.Test Procedure Used

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 ≥ 2 × (span / 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*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*log(1/0.25) = 6 dB if the duty cycle is 25 percent.

7.6.4.Test Setup



7.6.5.Test Result

Product	BE3600 Wi-Fi 7 Range Extender	Test Engineer	Marvin
Test Site	SR6	Test Date	2025/1/14~2025/2/3
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	7.074	7.480	95.60%	10.487	≤ 16.99	Pass
11a	6Mbps	40	5200	13.482	13.760	95.60%	16.829	≤ 16.99	Pass
11a	6Mbps	48	5240	13.447	13.706	95.60%	16.784	≤ 16.99	Pass
11a	6Mbps	52	5260	7.277	7.977	95.60%	10.847	≤ 11.00	Pass
11a	6Mbps	60	5300	7.159	7.811	95.60%	10.703	≤ 11.00	Pass
11a	6Mbps	64	5320	7.168	7.863	95.60%	10.735	≤ 11.00	Pass
11a	6Mbps	100	5500	5.287	6.308	95.60%	9.033	≤ 10.99	Pass
11a	6Mbps	116	5580	6.722	8.240	95.60%	10.753	≤ 10.99	Pass
11a	6Mbps	140	5700	4.917	6.104	95.60%	8.757	≤ 10.99	Pass
11a	6Mbps	144	5720	7.009	7.945	95.60%	10.708	≤ 10.99	Pass
11ac-VHT20	MCS0	36	5180	7.500	8.016	98.20%	10.855	≤ 16.99	Pass
11ac-VHT20	MCS0	40	5200	13.561	13.777	98.20%	16.759	≤ 16.99	Pass
11ac-VHT20	MCS0	48	5240	13.334	13.802	98.20%	16.663	≤ 16.99	Pass
11ac-VHT20	MCS0	52	5260	7.302	8.145	98.20%	10.833	≤ 11.00	Pass
11ac-VHT20	MCS0	60	5300	7.414	7.773	98.20%	10.686	≤ 11.00	Pass
11ac-VHT20	MCS0	64	5320	7.532	7.895	98.20%	10.806	≤ 11.00	Pass
11ac-VHT20	MCS0	100	5500	6.382	7.177	98.20%	9.887	≤ 10.99	Pass
11ac-VHT20	MCS0	116	5580	7.032	8.441	98.20%	10.882	≤ 10.99	Pass
11ac-VHT20	MCS0	140	5700	5.144	6.401	98.20%	8.907	≤ 10.99	Pass
11ac-VHT20	MCS0	144	5720	7.047	8.274	98.20%	10.793	≤ 10.99	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	3.464	3.179	97.27%	6.454	≤ 16.99	Pass
11ac-VHT40	MCS0	46	5230	10.639	10.741	97.27%	13.821	≤ 16.99	Pass
11ac-VHT40	MCS0	54	5270	6.533	6.659	97.27%	9.727	≤ 11.00	Pass
11ac-VHT40	MCS0	62	5310	3.783	3.520	97.27%	6.784	≤ 11.00	Pass
11ac-VHT40	MCS0	102	5510	1.547	2.527	97.27%	5.195	≤ 10.99	Pass
11ac-VHT40	MCS0	110	5550	5.764	6.814	97.27%	9.451	≤ 10.99	Pass
11ac-VHT40	MCS0	134	5670	4.735	5.711	97.27%	8.381	≤ 10.99	Pass
11ac-VHT40	MCS0	142	5710	5.746	6.690	97.27%	9.374	≤ 10.99	Pass
11ac-VHT80	MCS0	42	5210	0.209	0.240	97.00%	3.367	≤ 16.99	Pass
11ac-VHT80	MCS0	58	5290	0.405	0.229	97.00%	3.460	≤ 11.00	Pass
11ac-VHT80	MCS0	106	5530	-1.702	-0.569	97.00%	2.044	≤ 10.99	Pass
11ac-VHT80	MCS0	122	5610	2.158	2.971	97.00%	5.726	≤ 10.99	Pass
11ac-VHT80	MCS0	138	5690	1.815	3.120	97.00%	5.659	≤ 10.99	Pass
11ac-VHT160	MCS0	50	5250	-4.652	-4.619	95.98%	-1.447	≤ 11.00	Pass
11ac-VHT160	MCS0	114	5570	-5.770	-5.298	95.98%	-2.339	≤ 10.99	Pass
11ax-HE20	MCS0	36	5180	7.218	7.759	97.20%	10.631	≤ 16.99	Pass
11ax-HE20	MCS0	40	5200	12.933	13.530	97.20%	16.375	≤ 16.99	Pass
11ax-HE20	MCS0	48	5240	13.460	13.890	97.20%	16.814	≤ 16.99	Pass
11ax-HE20	MCS0	52	5260	7.528	7.928	97.20%	10.866	≤ 11.00	Pass
11ax-HE20	MCS0	60	5300	7.506	8.011	97.20%	10.900	≤ 11.00	Pass
11ax-HE20	MCS0	64	5320	7.479	8.052	97.20%	10.909	≤ 11.00	Pass
11ax-HE20	MCS0	100	5500	5.205	5.819	97.20%	8.657	≤ 10.99	Pass
11ax-HE20	MCS0	116	5580	7.135	8.090	97.20%	10.772	≤ 10.99	Pass
11ax-HE20	MCS0	140	5700	4.034	5.078	97.20%	7.721	≤ 10.99	Pass
11ax-HE20	MCS0	144	5720	7.261	8.072	97.20%	10.819	≤ 10.99	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	3.046	2.583	96.63%	5.980	≤ 16.99	Pass
11ax-HE40	MCS0	46	5230	10.772	10.521	96.63%	13.807	≤ 16.99	Pass
11ax-HE40	MCS0	54	5270	6.617	6.674	96.63%	9.805	≤ 11.00	Pass
11ax-HE40	MCS0	62	5310	3.908	3.922	96.63%	7.074	≤ 11.00	Pass
11ax-HE40	MCS0	102	5510	1.467	2.524	96.63%	5.187	≤ 10.99	Pass
11ax-HE40	MCS0	110	5550	5.534	6.875	96.63%	9.415	≤ 10.99	Pass
11ax-HE40	MCS0	134	5670	3.266	4.137	96.63%	6.882	≤ 10.99	Pass
11ax-HE40	MCS0	142	5710	5.629	6.376	96.63%	9.178	≤ 10.99	Pass
11ax-HE80	MCS0	42	5210	0.424	0.260	96.01%	3.530	≤ 16.99	Pass
11ax-HE80	MCS0	58	5290	0.162	0.258	96.01%	3.398	≤ 11.00	Pass
11ax-HE80	MCS0	106	5530	-0.731	-0.074	96.01%	2.797	≤ 10.99	Pass
11ax-HE80	MCS0	122	5610	1.867	3.336	96.01%	5.851	≤ 10.99	Pass
11ax-HE80	MCS0	138	5690	1.814	3.443	96.01%	5.892	≤ 10.99	Pass
11ax-HE160	MCS0	50	5250	-1.663	-2.160	94.89%	1.334	≤ 11.00	Pass
11ax-HE160	MCS0	114	5570	-2.951	-2.020	94.89%	0.778	≤ 10.99	Pass
11be-EHT20	MCS0	36	5180	7.985	7.917	97.80%	11.058	≤ 16.99	Pass
11be-EHT20	MCS0	40	5200	12.888	13.758	97.80%	16.452	≤ 16.99	Pass
11be-EHT20	MCS0	48	5240	12.988	13.808	97.80%	16.524	≤ 16.99	Pass
11be-EHT20	MCS0	52	5260	7.485	7.955	97.80%	10.833	≤ 11.00	Pass
11be-EHT20	MCS0	60	5300	7.643	7.861	97.80%	10.860	≤ 11.00	Pass
11be-EHT20	MCS0	64	5320	7.312	7.847	97.80%	10.695	≤ 11.00	Pass
11be-EHT20	MCS0	100	5500	5.752	6.855	97.80%	9.446	≤ 10.99	Pass
11be-EHT20	MCS0	116	5580	6.990	8.194	97.80%	10.741	≤ 10.99	Pass
11be-EHT20	MCS0	140	5700	4.344	4.966	97.80%	7.773	≤ 10.99	Pass
11be-EHT20	MCS0	144	5720	7.140	8.166	97.80%	10.790	≤ 10.99	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	2.776	2.418	97.57%	5.718	≤ 16.99	Pass
11be-EHT40	MCS0	46	5230	10.623	10.502	97.57%	13.680	≤ 16.99	Pass
11be-EHT40	MCS0	54	5270	6.333	6.685	97.57%	9.630	≤ 11.00	Pass
11be-EHT40	MCS0	62	5310	2.730	2.515	97.57%	5.741	≤ 11.00	Pass
11be-EHT40	MCS0	102	5510	0.458	1.335	97.57%	4.036	≤ 10.99	Pass
11be-EHT40	MCS0	110	5550	5.668	6.806	97.57%	9.391	≤ 10.99	Pass
11be-EHT40	MCS0	134	5670	2.676	3.542	97.57%	6.248	≤ 10.99	Pass
11be-EHT40	MCS0	142	5710	5.573	6.371	97.57%	9.107	≤ 10.99	Pass
11be-EHT80	MCS0	42	5210	-0.760	-1.005	95.96%	2.308	≤ 16.99	Pass
11be-EHT80	MCS0	58	5290	-0.208	0.385	95.96%	3.288	≤ 11.00	Pass
11be-EHT80	MCS0	106	5530	-2.687	-1.337	95.96%	1.229	≤ 10.99	Pass
11be-EHT80	MCS0	122	5610	1.653	3.178	95.96%	5.671	≤ 10.99	Pass
11be-EHT80	MCS0	138	5690	1.781	2.828	95.96%	5.525	≤ 10.99	Pass
11be-EHT160	MCS0	50	5250	-1.976	-1.748	94.37%	1.402	≤ 11.00	Pass
11be-EHT160	MCS0	114	5570	-3.550	-3.201	94.37%	-0.110	≤ 10.99	Pass

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

Note 2:

For5150 - 5250MHzBand: PSD Limit (dBm/MHz) = 17 - (6.01 - 6) = 16.99dBm/MHz.

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

For 5470 - 5725MHz Band:PSD Limit (dBm/MHz) = 11 - (6.01 - 6) = 10.99dBm/MHz.

Product	BE3600 Wi-Fi 7 Range Extender	Test Engineer	Marvin
Test Site	SR6	Test Date	2025/1/14~2025/2/3
Test Item	Power Spectral Density (U-NII-3) CDD Mode		

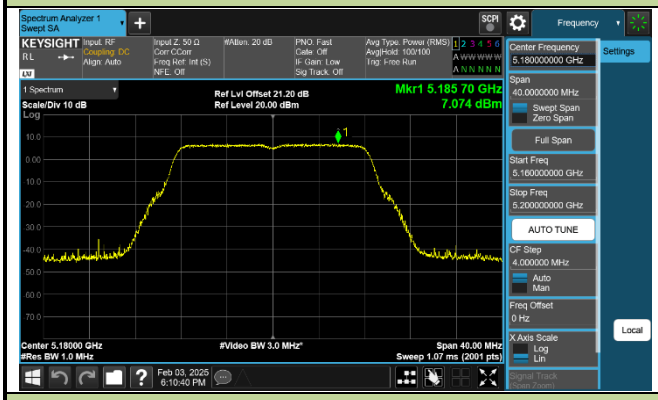
Test Mode	Data Rate/ MCS	Ch. No.	Freq. (MHz)	Ant 0 PSD (dBm/510KHz)	Ant 1 PSD (dBm/510KHz)	Duty Cycle (%)	Total PSD(dBm/ 510kHz)	Limit (dBm/ 500kHz)	Result
11a	6Mbps	149	5745	8.328	9.064	95.60%	11.917	≤ 29.99	Pass
11a	6Mbps	157	5785	10.593	11.379	95.60%	14.209	≤ 29.99	Pass
11a	6Mbps	165	5825	9.977	10.996	95.60%	13.722	≤ 29.99	Pass
11ac-VHT20	MCS0	149	5745	7.724	8.709	98.20%	11.333	≤ 29.99	Pass
11ac-VHT20	MCS0	157	5785	10.152	10.979	98.20%	13.674	≤ 29.99	Pass
11ac-VHT20	MCS0	165	5825	8.312	9.334	98.20%	11.942	≤ 29.99	Pass
11ac-VHT40	MCS0	151	5755	2.945	4.220	97.27%	6.760	≤ 29.99	Pass
11ac-VHT40	MCS0	159	5795	3.743	4.711	97.27%	7.384	≤ 29.99	Pass
11ac-VHT80	MCS0	155	5775	0.682	2.044	97.00%	4.559	≤ 29.99	Pass
11ax-HE20	MCS0	149	5745	6.343	7.729	97.20%	10.225	≤ 29.99	Pass
11ax-HE20	MCS0	157	5785	10.633	10.870	97.20%	13.887	≤ 29.99	Pass
11ax-HE20	MCS0	165	5825	6.969	8.395	97.20%	10.874	≤ 29.99	Pass
11ax-HE40	MCS0	151	5755	3.770	4.986	96.63%	7.579	≤ 29.99	Pass
11ax-HE40	MCS0	159	5795	4.911	6.007	96.63%	8.652	≤ 29.99	Pass
11ax-HE80	MCS0	155	5775	1.123	2.340	96.01%	4.961	≤ 29.99	Pass
11be-EHT20	MCS0	149	5745	6.027	7.137	97.80%	9.724	≤ 29.99	Pass
11be-EHT20	MCS0	157	5785	10.083	10.603	97.80%	13.458	≤ 29.99	Pass
11be-EHT20	MCS0	165	5825	7.652	8.704	97.80%	11.317	≤ 29.99	Pass
11be-EHT40	MCS0	151	5755	3.393	4.929	97.57%	7.346	≤ 29.99	Pass
11be-EHT40	MCS0	159	5795	4.037	5.039	97.57%	7.684	≤ 29.99	Pass
11be-EHT80	MCS0	155	5775	0.509	1.984	95.96%	4.498	≤ 29.99	Pass

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

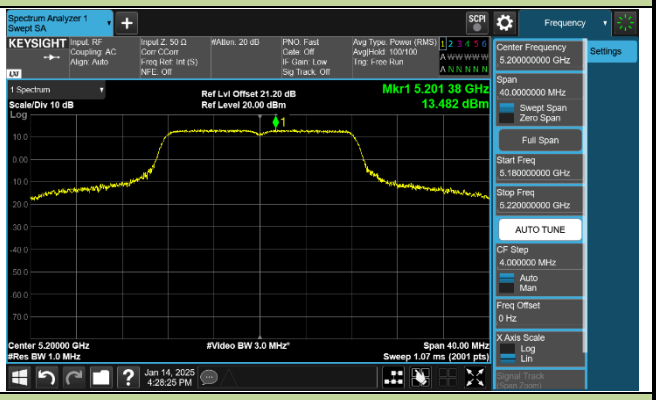
Note 2: PSD Limit (dBm/500kHz) = 30 - (6.01 - 6) = 29.99 (dBm/500kHz).

802.11a Power Spectral Density - Ant 0

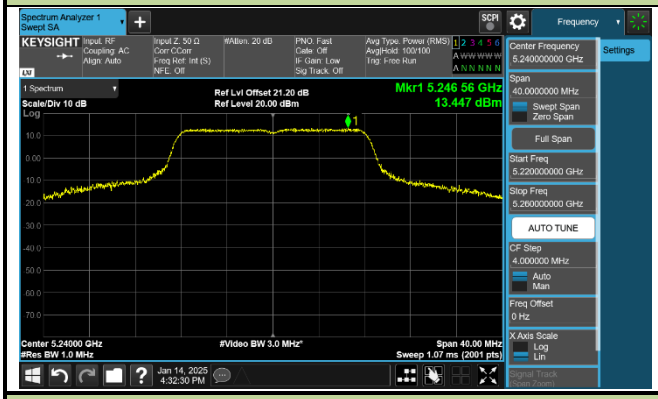
Channel 36 (5180MHz)



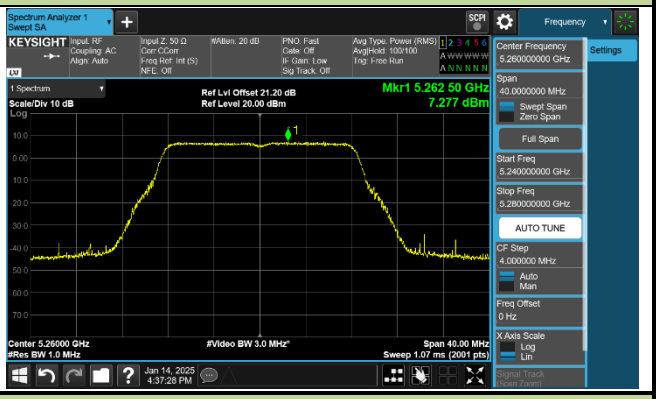
Channel 40 (5200MHz)



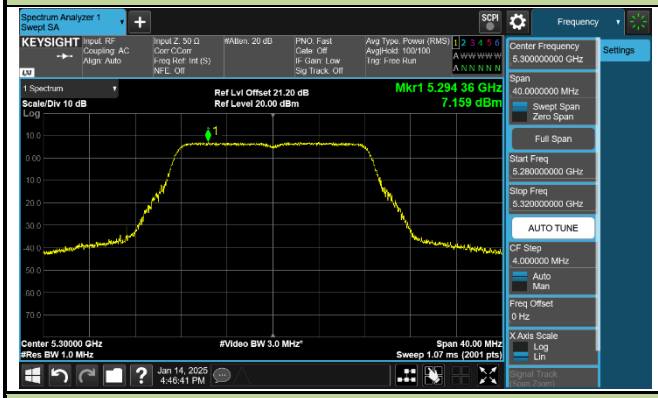
Channel 48 (5240MHz)



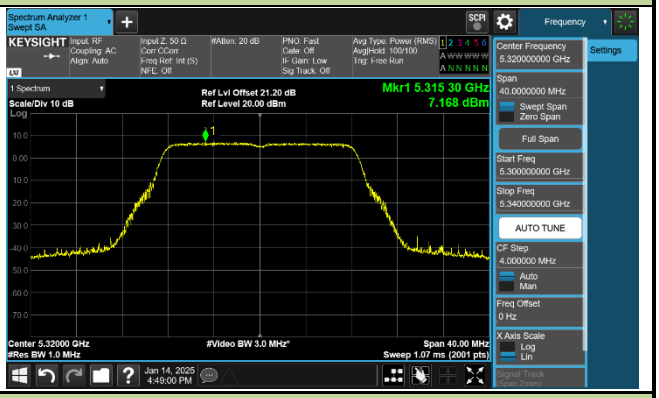
Channel 52 (5260MHz)



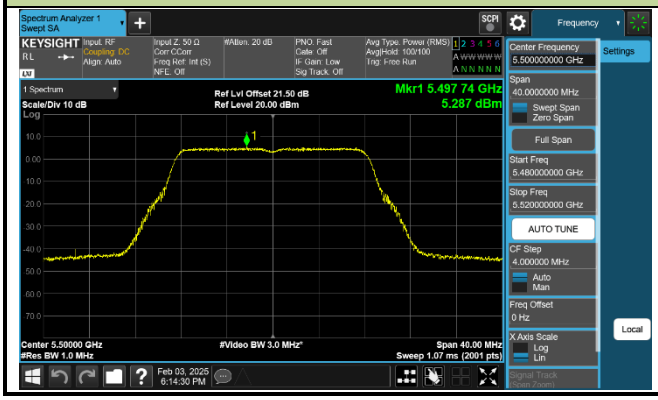
Channel 60 (5300MHz)



Channel 64 (5320MHz)

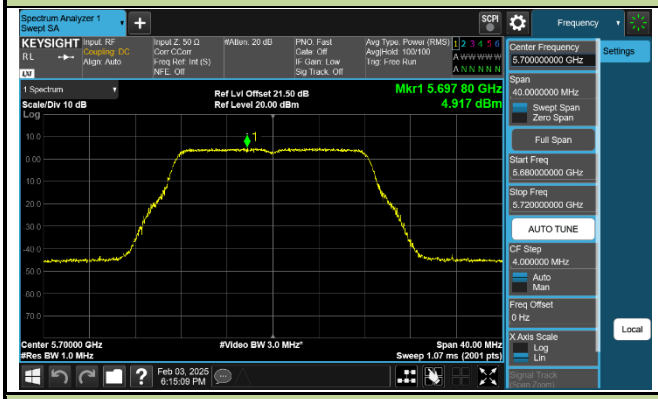


Channel 100 (5500MHz)

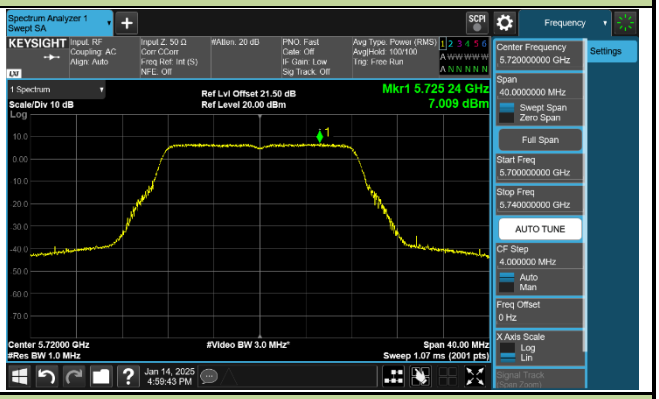


Channel 116 (5580MHz)

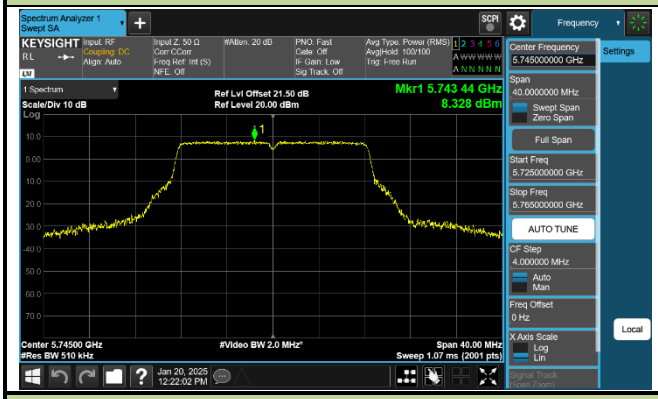
Channel 140 (5700MHz)



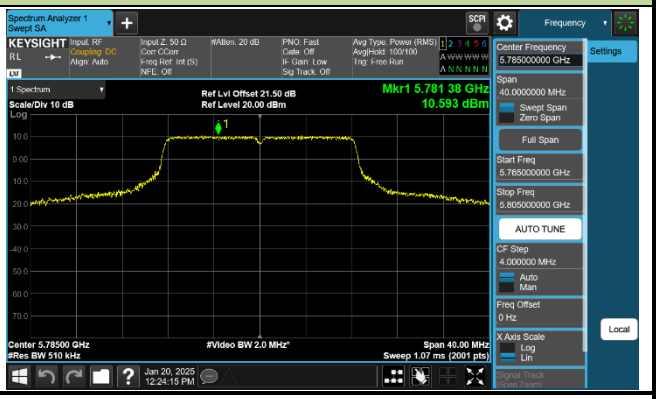
Channel 144 (5720MHz)



Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)