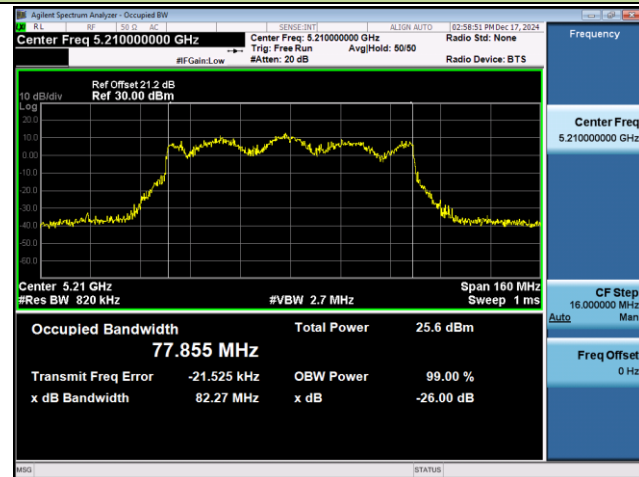
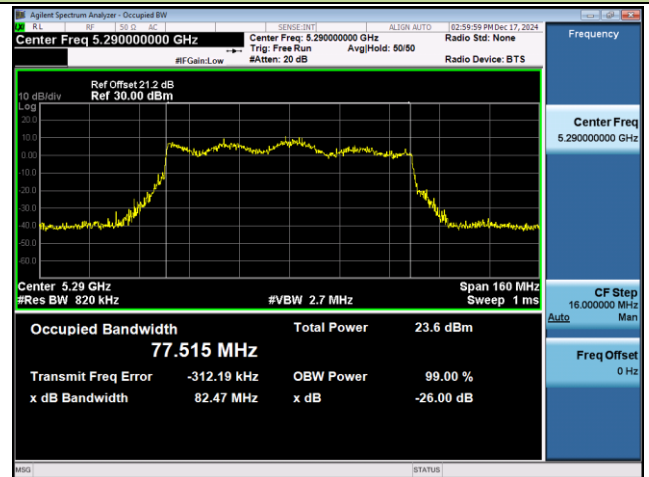


802.11be-EHT80 26dB Bandwidth & 99% Bandwidth

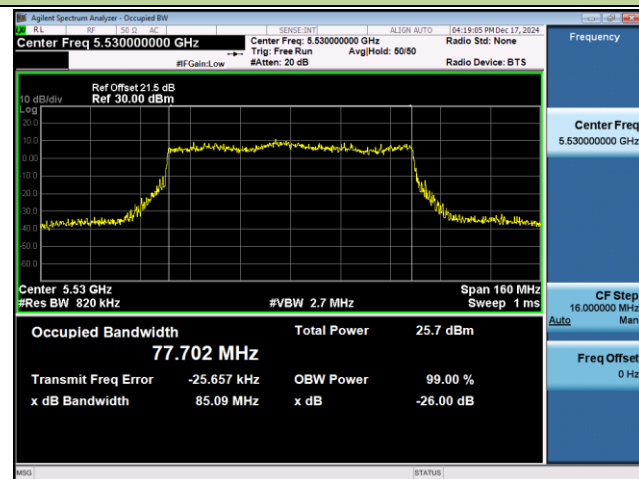
Channel 42 (5210MHz)



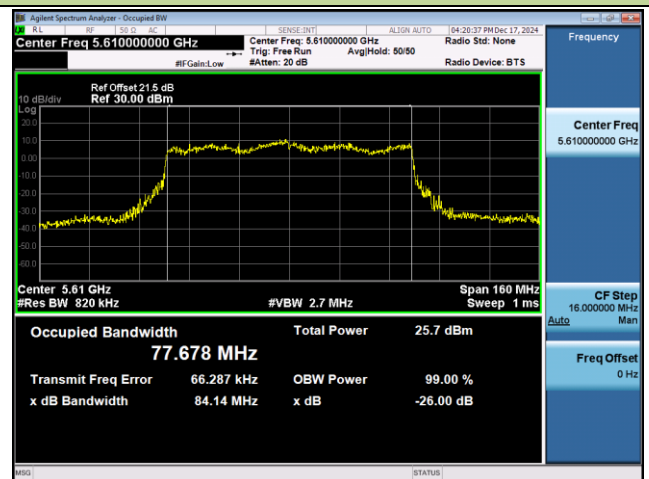
Channel 58 (5290MHz)



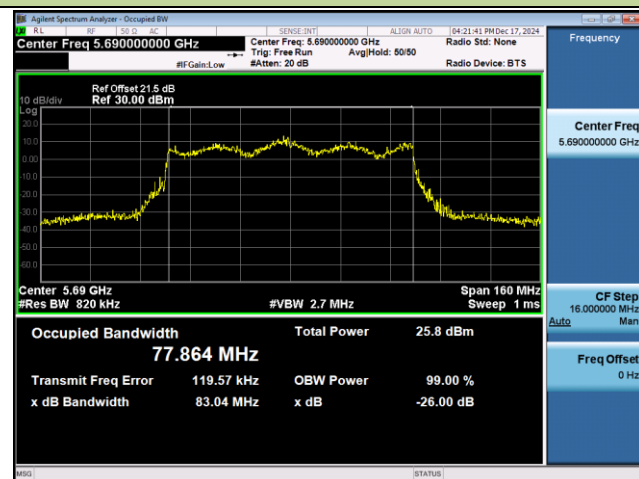
Channel 106 (5530MHz)



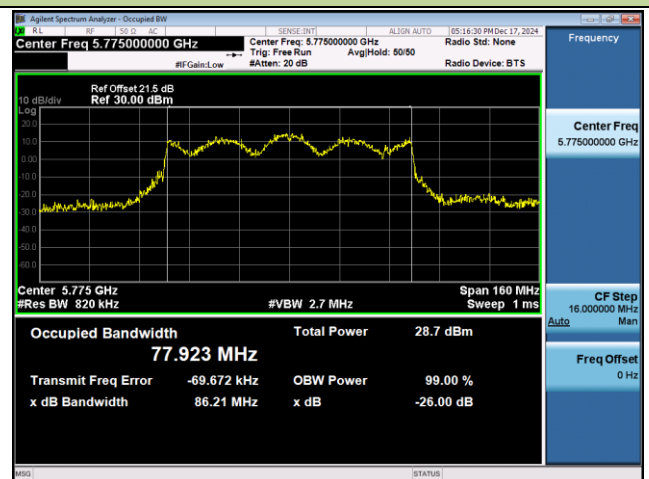
Channel 122 (5610MHz)



Channel 138 (5690MHz)

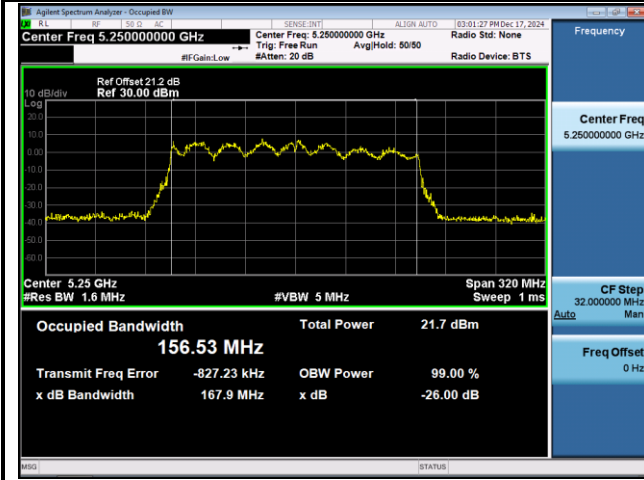


Channel 155 (5775MHz)

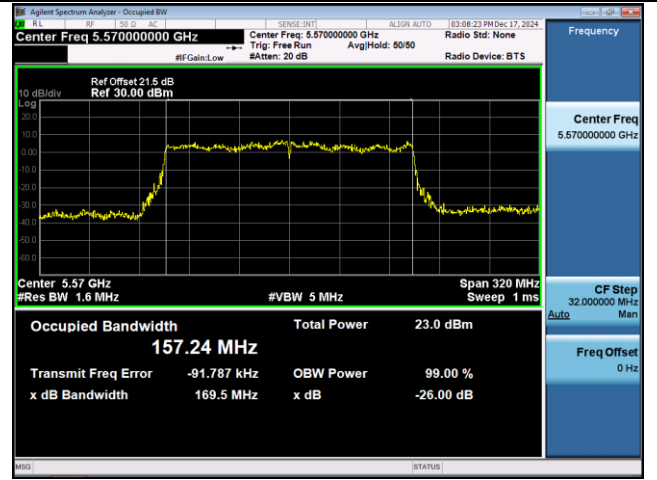


802.11be-EHT160 26dB Bandwidth & 99% Bandwidth

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.

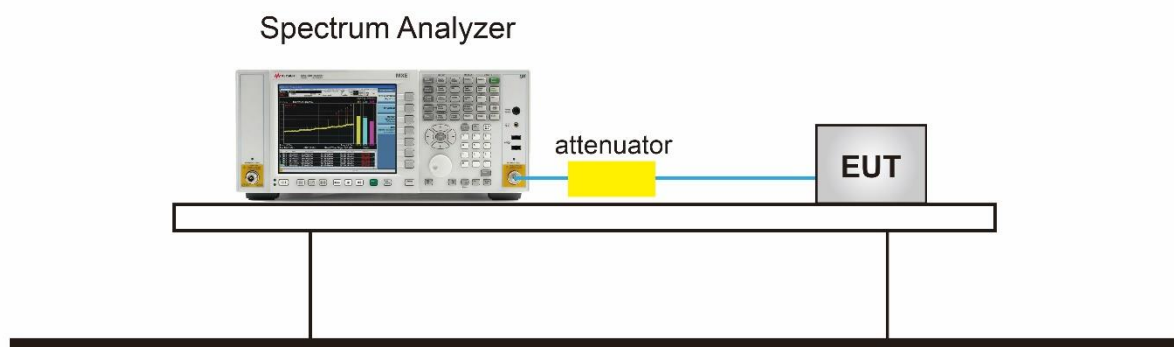
7.3.2. Test Procedure used

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	BE3600 Whole Home Mesh Wi-Fi 7 System	Temperature	20°C
Test Engineer	Peter	Relative Humidity	54%
Test Site	SR6	Test Date	2024/12/17

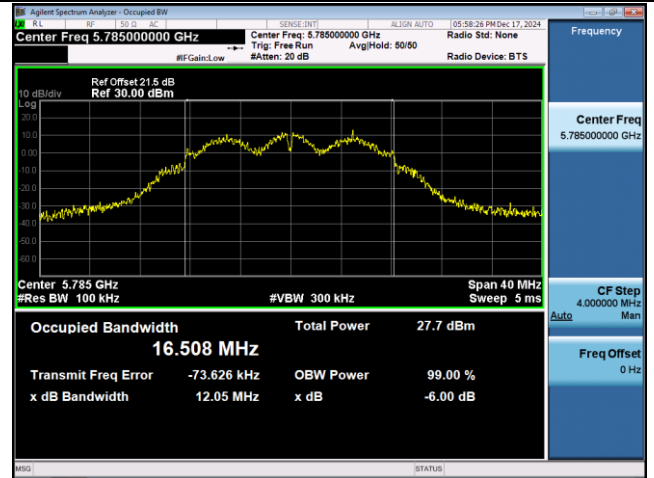
Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
Ant 0						
802.11a	6Mbps	149	5745	12.890	≥ 0.5	Pass
802.11a	6Mbps	157	5785	12.050	≥ 0.5	Pass
802.11a	6Mbps	165	5825	12.950	≥ 0.5	Pass
802.11ac-VHT20	MCS0	149	5745	12.230	≥ 0.5	Pass
802.11ac-VHT20	MCS0	157	5785	12.850	≥ 0.5	Pass
802.11ac-VHT20	MCS0	165	5825	11.400	≥ 0.5	Pass
802.11ac-VHT40	MCS0	151	5755	36.360	≥ 0.5	Pass
802.11ac-VHT40	MCS0	159	5795	36.400	≥ 0.5	Pass
802.11ac-VHT80	MCS0	155	5775	76.480	≥ 0.5	Pass
802.11ax-HE20	MCS0	149	5745	13.060	≥ 0.5	Pass
802.11ax-HE20	MCS0	157	5785	10.460	≥ 0.5	Pass
802.11ax-HE20	MCS0	165	5825	11.730	≥ 0.5	Pass
802.11ax-HE40	MCS0	151	5755	37.940	≥ 0.5	Pass
802.11ax-HE40	MCS0	159	5795	37.960	≥ 0.5	Pass
802.11ax-HE80	MCS0	155	5775	78.060	≥ 0.5	Pass
802.11be-EHT20	MCS0	149	5745	12.010	≥ 0.5	Pass
802.11be-EHT20	MCS0	157	5785	11.940	≥ 0.5	Pass
802.11be-EHT20	MCS0	165	5825	9.572	≥ 0.5	Pass
802.11be-EHT40	MCS0	151	5755	38.030	≥ 0.5	Pass
802.11be-EHT40	MCS0	159	5795	38.190	≥ 0.5	Pass
802.11be-EHT80	MCS0	155	5775	78.030	≥ 0.5	Pass

802.11a 6dB Bandwidth

Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

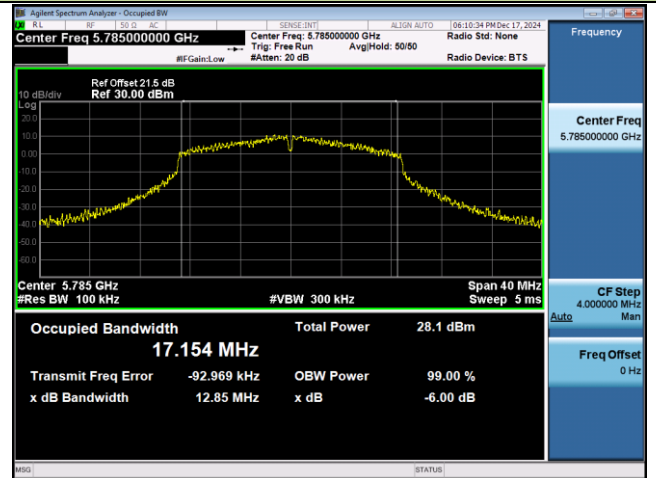


802.11ac-VHT20 6dB Bandwidth

Channel 149 (5745MHz)



Channel 157 (5785MHz)

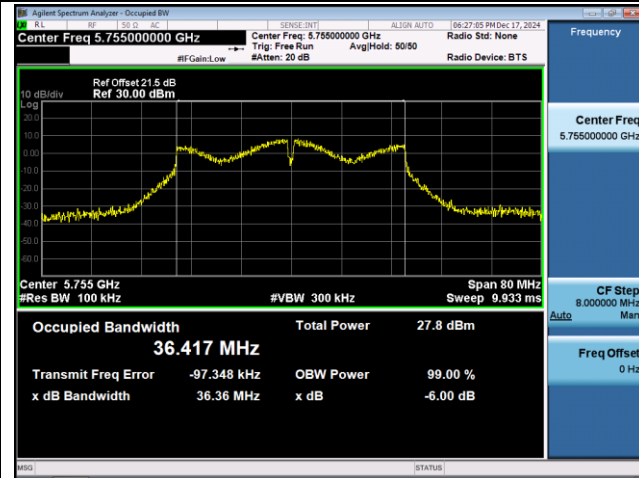


Channel 165 (5825MHz)

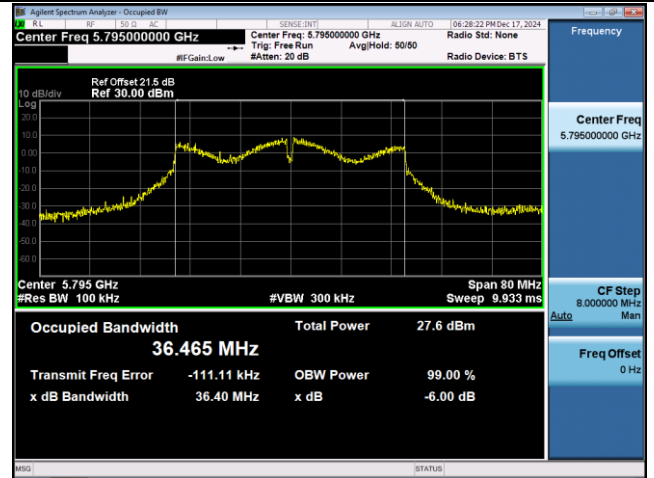


802.11ac-VHT40 6dB Bandwidth

Channel 151 (5755MHz)

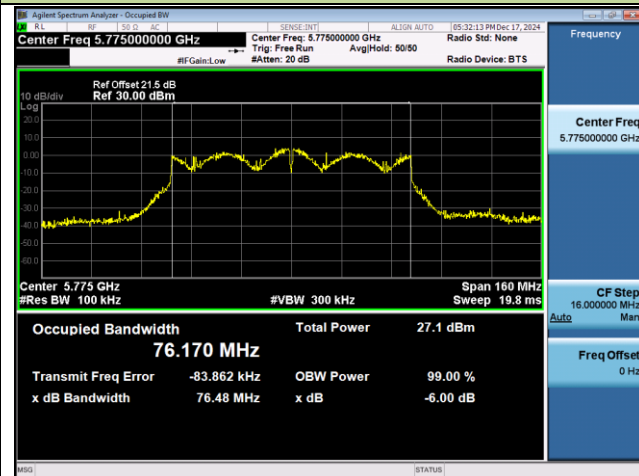


Channel 159 (5795MHz)



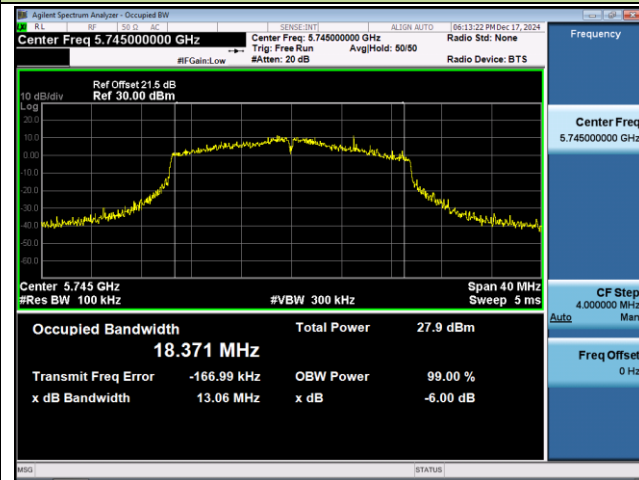
802.11ac-VHT80 6dB Bandwidth

Channel 155 (5775MHz)

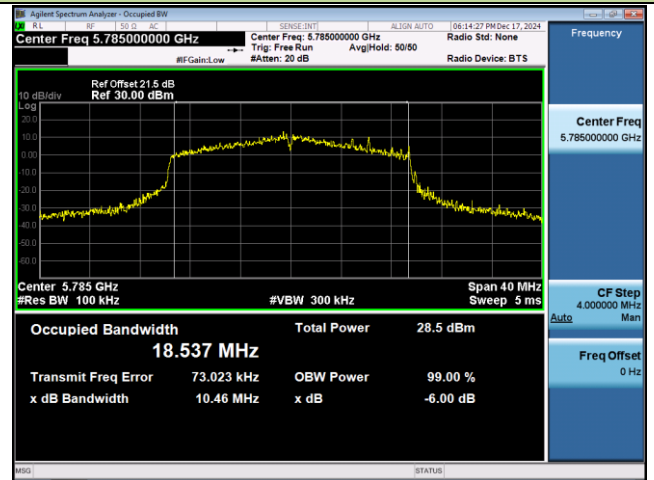


802.11ax-HE20 6dB Bandwidth

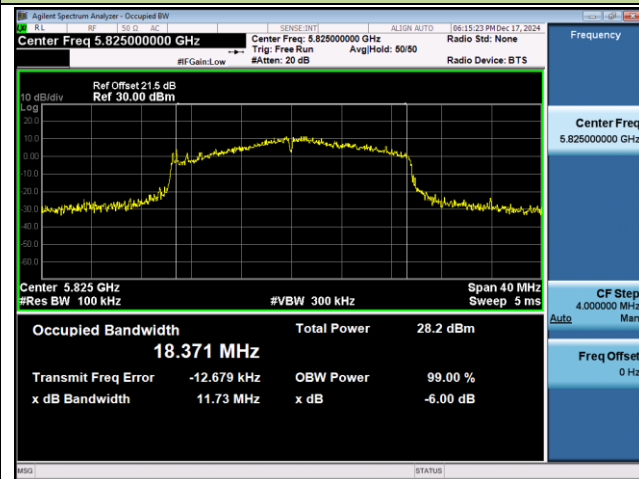
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)

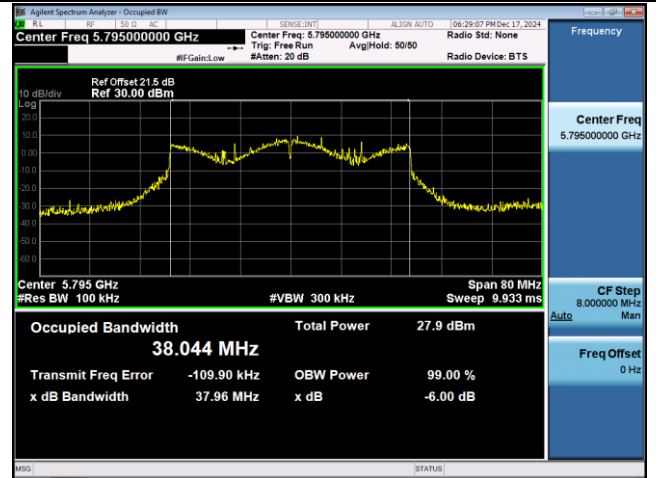


802.11ax-HE40 6dB Bandwidth

Channel 151 (5755MHz)

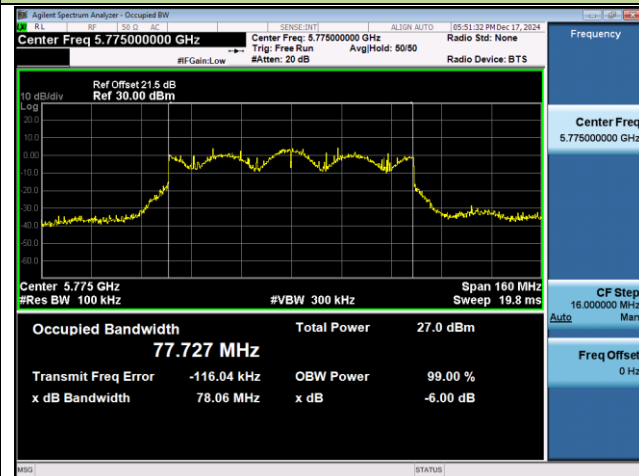


Channel 159 (5795MHz)



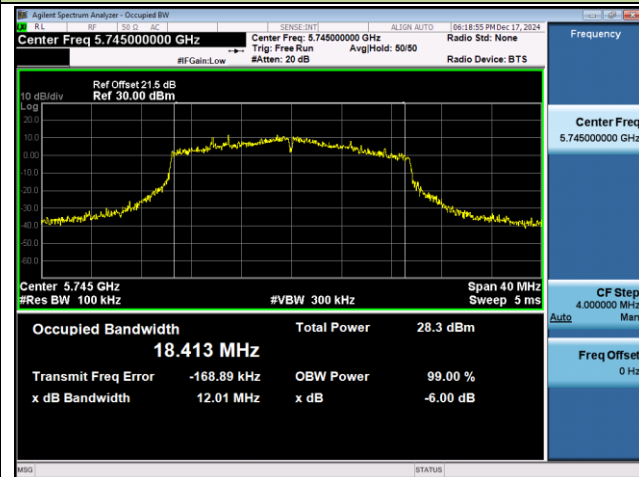
802.11ax-HE80 6dB Bandwidth

Channel 155 (5775MHz)

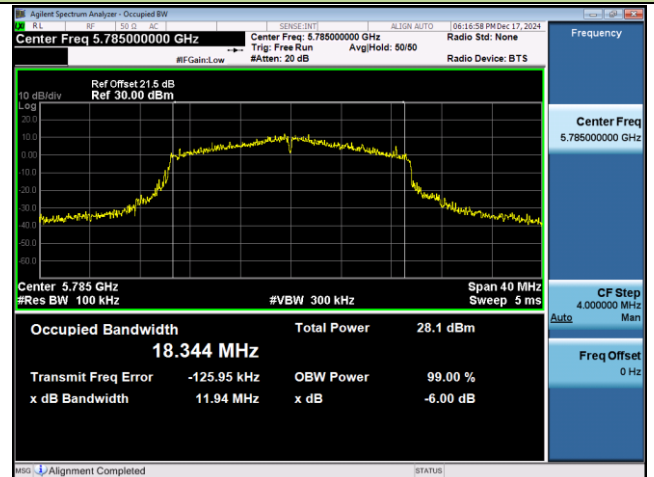


802.11be-EHT20 dB Bandwidth

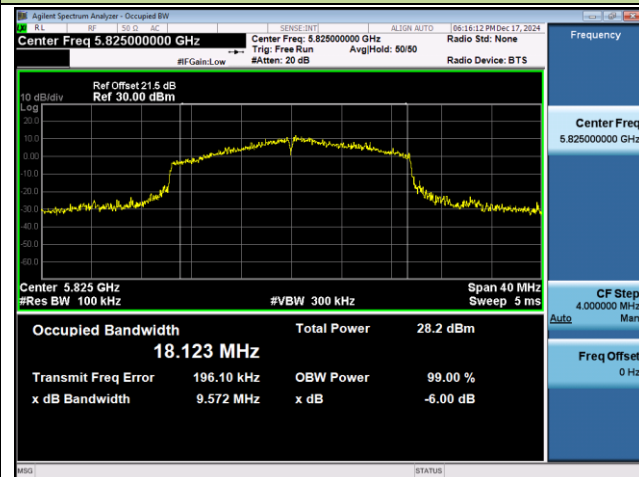
Channel 149 (5745MHz)



Channel 157 (5785MHz)

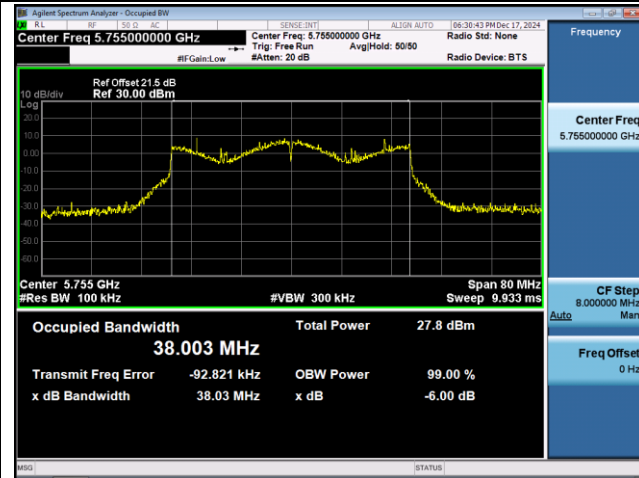


Channel 165 (5825MHz)

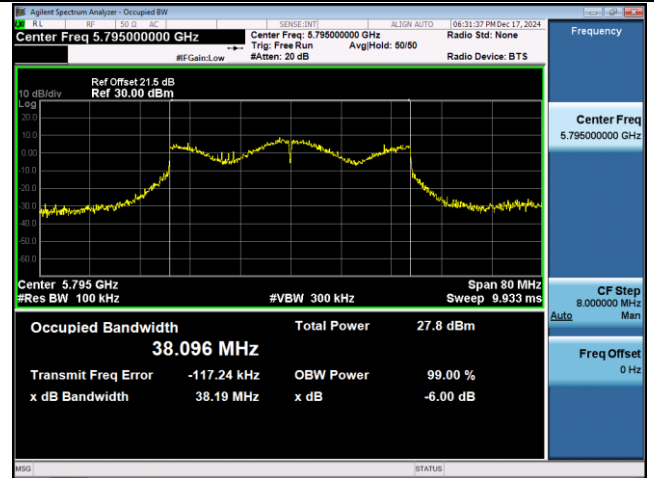


802.11be-EHT40 6dB Bandwidth

Channel 151 (5755MHz)

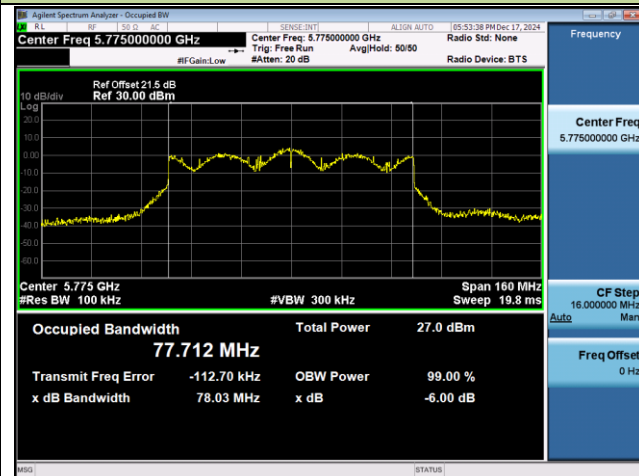


Channel 159 (5795MHz)



802.11be-EHT80 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.

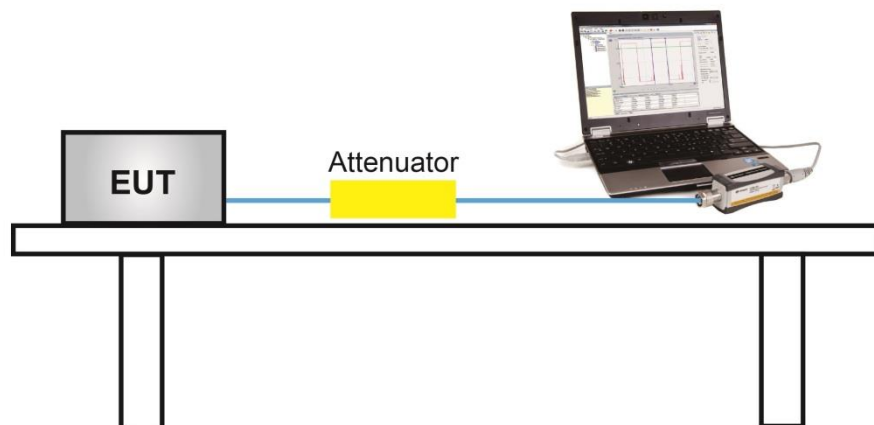
7.4.2. Test Procedure Used

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	BE3600 Whole Home Mesh Wi-Fi 7 System	Temperature	20°C
Test Engineer	Peter	Relative Humidity	54%
Test Site	SR6	Test Date	2024/12/17
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	21.69	21.22	24.47	≤ 30.00	Pass
11a	6Mbps	40	5200	21.87	21.10	24.51	≤ 30.00	Pass
11a	6Mbps	48	5240	21.45	20.89	24.19	≤ 30.00	Pass
11a	6Mbps	52	5260	16.55	16.80	19.69	≤ 23.98	Pass
11a	6Mbps	60	5300	15.91	16.40	19.17	≤ 23.98	Pass
11a	6Mbps	64	5320	15.91	16.68	19.32	≤ 23.98	Pass
11a	6Mbps	100	5500	15.84	16.02	18.94	≤ 23.98	Pass
11a	6Mbps	116	5580	15.54	15.34	18.45	≤ 23.98	Pass
11a	6Mbps	140	5700	15.42	14.87	18.16	≤ 23.98	Pass
11a	6Mbps	144	5720	15.86	15.49	18.69	≤ 22.92	Pass
11a	6Mbps	149	5745	23.53	22.82	26.20	≤ 30.00	Pass
11a	6Mbps	157	5785	23.30	22.72	26.03	≤ 30.00	Pass
11a	6Mbps	165	5825	23.37	23.01	26.20	≤ 30.00	Pass
11ac-VHT20	MCS0	36	5180	21.77	21.13	24.47	≤ 30.00	Pass
11ac-VHT20	MCS0	40	5200	21.85	21.34	24.61	≤ 30.00	Pass
11ac-VHT20	MCS0	48	5240	21.76	21.24	24.52	≤ 30.00	Pass
11ac-VHT20	MCS0	52	5260	16.89	16.74	19.83	≤ 23.98	Pass
11ac-VHT20	MCS0	60	5300	15.95	16.64	19.32	≤ 23.98	Pass
11ac-VHT20	MCS0	64	5320	15.74	16.95	19.40	≤ 23.98	Pass
11ac-VHT20	MCS0	100	5500	15.91	16.70	19.33	≤ 23.98	Pass
11ac-VHT20	MCS0	116	5580	16.29	16.22	19.27	≤ 23.98	Pass
11ac-VHT20	MCS0	140	5700	16.60	15.38	19.04	≤ 23.98	Pass
11ac-VHT20	MCS0	144	5720	16.45	15.54	19.03	≤ 22.95	Pass
11ac-VHT20	MCS0	149	5745	23.61	22.42	26.07	≤ 30.00	Pass
11ac-VHT20	MCS0	157	5785	23.87	22.63	26.30	≤ 30.00	Pass
11ac-VHT20	MCS0	165	5825	23.93	22.98	26.49	≤ 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	22.04	21.66	24.86	≤ 30.00	Pass
11ac-VHT40	MCS0	46	5230	23.20	23.09	26.16	≤ 30.00	Pass
11ac-VHT40	MCS0	54	5270	18.82	19.29	22.07	≤ 23.98	Pass
11ac-VHT40	MCS0	62	5310	18.20	18.94	21.60	≤ 23.98	Pass
11ac-VHT40	MCS0	102	5510	18.54	18.93	21.75	≤ 23.98	Pass
11ac-VHT40	MCS0	110	5550	18.52	18.77	21.66	≤ 23.98	Pass
11ac-VHT40	MCS0	134	5670	18.84	17.92	21.41	≤ 23.98	Pass
11ac-VHT40	MCS0	142	5710	19.32	18.58	21.98	≤ 23.98	Pass
11ac-VHT40	MCS0	151	5755	23.49	22.95	26.24	≤ 30.00	Pass
11ac-VHT40	MCS0	159	5795	23.44	22.83	26.16	≤ 30.00	Pass
11ac-VHT80	MCS0	42	5210	20.25	20.31	23.29	≤ 30.00	Pass
11ac-VHT80	MCS0	58	5290	18.11	18.63	21.39	≤ 23.98	Pass
11ac-VHT80	MCS0	106	5530	20.76	21.16	23.97	≤ 23.98	Pass
11ac-VHT80	MCS0	122	5610	20.98	20.25	23.64	≤ 23.98	Pass
11ac-VHT80	MCS0	138	5690	20.75	20.40	23.59	≤ 23.98	Pass
11ac-VHT80	MCS0	155	5775	23.62	23.18	26.42	≤ 30.00	Pass
11ac-VHT160	MCS0	50	5250	16.75	16.95	19.86	≤ 23.98	Pass
11ac-VHT160	MCS0	114	5570	16.61	16.54	19.59	≤ 23.98	Pass
11ax-HE20	MCS0	36	5180	21.66	21.00	24.35	≤ 30.00	Pass
11ax-HE20	MCS0	40	5200	21.76	21.05	24.43	≤ 30.00	Pass
11ax-HE20	MCS0	48	5240	21.31	20.85	24.10	≤ 30.00	Pass
11ax-HE20	MCS0	52	5260	16.83	16.81	19.83	≤ 23.98	Pass
11ax-HE20	MCS0	60	5300	16.08	16.71	19.42	≤ 23.98	Pass
11ax-HE20	MCS0	64	5320	15.80	16.86	19.37	≤ 23.98	Pass
11ax-HE20	MCS0	100	5500	15.97	16.59	19.30	≤ 23.98	Pass
11ax-HE20	MCS0	116	5580	16.12	16.21	19.18	≤ 23.98	Pass
11ax-HE20	MCS0	140	5700	16.39	15.61	19.03	≤ 23.98	Pass
11ax-HE20	MCS0	144	5720	17.06	16.14	19.63	≤ 22.91	Pass
11ax-HE20	MCS0	149	5745	23.50	23.10	26.31	≤ 30.00	Pass
11ax-HE20	MCS0	157	5785	23.83	22.50	26.23	≤ 30.00	Pass
11ax-HE20	MCS0	165	5825	23.88	22.73	26.35	≤ 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	21.53	20.98	24.27	≤ 30.00	Pass
11ax-HE40	MCS0	46	5230	23.05	23.22	26.15	≤ 30.00	Pass
11ax-HE40	MCS0	54	5270	18.91	19.36	22.15	≤ 23.98	Pass
11ax-HE40	MCS0	62	5310	18.79	19.56	22.20	≤ 23.98	Pass
11ax-HE40	MCS0	102	5510	18.39	19.11	21.78	≤ 23.98	Pass
11ax-HE40	MCS0	110	5550	18.65	18.84	21.76	≤ 23.98	Pass
11ax-HE40	MCS0	134	5670	19.28	18.60	21.96	≤ 23.98	Pass
11ax-HE40	MCS0	142	5710	19.07	17.95	21.56	≤ 23.98	Pass
11ax-HE40	MCS0	151	5755	23.55	22.88	26.24	≤ 30.00	Pass
11ax-HE40	MCS0	159	5795	23.28	22.89	26.10	≤ 30.00	Pass
11ax-HE80	MCS0	42	5210	20.24	20.27	23.27	≤ 30.00	Pass
11ax-HE80	MCS0	58	5290	18.62	19.05	21.85	≤ 23.98	Pass
11ax-HE80	MCS0	106	5530	20.76	20.95	23.87	≤ 23.98	Pass
11ax-HE80	MCS0	122	5610	20.80	20.40	23.61	≤ 23.98	Pass
11ax-HE80	MCS0	138	5690	21.04	20.22	23.66	≤ 23.98	Pass
11ax-HE80	MCS0	155	5775	23.58	22.87	26.25	≤ 30.00	Pass
11ax-HE160	MCS0	50	5250	16.30	16.57	19.45	≤ 23.98	Pass
11ax-HE160	MCS0	114	5570	16.73	16.58	19.67	≤ 23.98	Pass
11be-EHT20	MCS0	36	5180	22.42	22.37	25.41	≤ 30.00	Pass
11be-EHT20	MCS0	40	5200	22.53	22.23	25.39	≤ 30.00	Pass
11be-EHT20	MCS0	48	5240	21.87	21.14	24.53	≤ 30.00	Pass
11be-EHT20	MCS0	52	5260	15.96	16.28	19.13	≤ 23.98	Pass
11be-EHT20	MCS0	60	5300	16.00	16.52	19.28	≤ 23.98	Pass
11be-EHT20	MCS0	64	5320	15.83	16.89	19.40	≤ 23.98	Pass
11be-EHT20	MCS0	100	5500	16.15	16.43	19.30	≤ 23.98	Pass
11be-EHT20	MCS0	116	5580	16.30	16.25	19.29	≤ 23.98	Pass
11be-EHT20	MCS0	140	5700	16.30	15.47	18.92	≤ 23.98	Pass
11be-EHT20	MCS0	144	5720	16.76	16.16	19.48	≤ 22.91	Pass
11be-EHT20	MCS0	149	5745	23.94	22.50	26.29	≤ 30.00	Pass
11be-EHT20	MCS0	157	5785	23.70	22.39	26.10	≤ 30.00	Pass
11be-EHT20	MCS0	165	5825	23.77	22.77	26.31	≤ 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	20.28	20.04	23.17	≤ 30.00	Pass
11be-EHT40	MCS0	46	5230	23.30	23.50	26.41	≤ 30.00	Pass
11be-EHT40	MCS0	54	5270	18.97	19.37	22.18	≤ 23.98	Pass
11be-EHT40	MCS0	62	5310	18.27	19.18	21.76	≤ 23.98	Pass
11be-EHT40	MCS0	102	5510	18.48	19.08	21.80	≤ 23.98	Pass
11be-EHT40	MCS0	110	5550	18.69	18.88	21.80	≤ 23.98	Pass
11be-EHT40	MCS0	134	5670	19.35	18.54	21.97	≤ 23.98	Pass
11be-EHT40	MCS0	142	5710	19.43	18.52	22.01	≤ 23.98	Pass
11be-EHT40	MCS0	151	5755	23.63	22.95	26.31	≤ 30.00	Pass
11be-EHT40	MCS0	159	5795	23.57	22.82	26.22	≤ 30.00	Pass
11be-EHT80	MCS0	42	5210	20.45	20.67	23.57	≤ 30.00	Pass
11be-EHT80	MCS0	58	5290	18.50	19.10	21.82	≤ 23.98	Pass
11be-EHT80	MCS0	106	5530	20.74	21.13	23.95	≤ 23.98	Pass
11be-EHT80	MCS0	122	5610	20.95	20.33	23.66	≤ 23.98	Pass
11be-EHT80	MCS0	138	5690	21.11	20.30	23.73	≤ 23.98	Pass
11be-EHT80	MCS0	155	5775	23.62	22.81	26.24	≤ 30.00	Pass
11be-EHT160	MCS0	50	5250	17.30	17.52	20.42	≤ 23.98	Pass
11be-EHT160	MCS0	114	5570	18.34	18.37	21.37	≤ 23.98	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 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) = $11 + 10 \cdot \log(5\text{MHz} + \text{BW}_{26\text{dBc}}/2)$

Product	BE3600 Whole Home Mesh Wi-Fi 7 System	Temperature	20°C
Test Engineer	Peter	Relative Humidity	54%
Test Site	SR6	Test Date	2024/12/17
Test Mode	Beamforming 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
11ac-VHT20	MCS0	36	5180	21.77	21.13	24.47	≤ 29.72	Pass
11ac-VHT20	MCS0	40	5200	21.85	21.34	24.61	≤ 29.72	Pass
11ac-VHT20	MCS0	48	5240	21.76	21.24	24.52	≤ 29.72	Pass
11ac-VHT20	MCS0	52	5260	16.89	16.74	19.83	≤ 23.98	Pass
11ac-VHT20	MCS0	60	5300	15.95	16.64	19.32	≤ 23.98	Pass
11ac-VHT20	MCS0	64	5320	15.74	16.95	19.40	≤ 23.98	Pass
11ac-VHT20	MCS0	100	5500	15.91	16.70	19.33	≤ 23.44	Pass
11ac-VHT20	MCS0	116	5580	16.29	16.22	19.27	≤ 23.44	Pass
11ac-VHT20	MCS0	140	5700	16.60	15.38	19.04	≤ 23.44	Pass
11ac-VHT20	MCS0	144	5720	16.45	15.54	19.03	≤ 22.41	Pass
11ac-VHT20	MCS0	149	5745	23.61	22.42	26.07	≤ 30.00	Pass
11ac-VHT20	MCS0	157	5785	23.87	22.63	26.30	≤ 30.00	Pass
11ac-VHT20	MCS0	165	5825	23.93	22.98	26.49	≤ 30.00	Pass
11ac-VHT40	MCS0	38	5190	22.04	21.66	24.86	≤ 29.72	Pass
11ac-VHT40	MCS0	46	5230	23.20	23.09	26.16	≤ 29.72	Pass
11ac-VHT40	MCS0	54	5270	18.82	19.29	22.07	≤ 23.98	Pass
11ac-VHT40	MCS0	62	5310	18.20	18.94	21.60	≤ 23.98	Pass
11ac-VHT40	MCS0	102	5510	18.54	18.93	21.75	≤ 23.44	Pass
11ac-VHT40	MCS0	110	5550	18.52	18.77	21.66	≤ 23.44	Pass
11ac-VHT40	MCS0	134	5670	18.84	17.92	21.41	≤ 23.44	Pass
11ac-VHT40	MCS0	142	5710	19.32	18.58	21.98	≤ 23.44	Pass
11ac-VHT40	MCS0	151	5755	23.49	22.95	26.24	≤ 30.00	Pass
11ac-VHT40	MCS0	159	5795	23.44	22.83	26.16	≤ 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-VHT80	MCS0	42	5210	20.25	20.31	23.29	≤ 29.72	Pass
11ac-VHT80	MCS0	58	5290	18.11	18.63	21.39	≤ 23.98	Pass
11ac-VHT80	MCS0	106	5530	20.12	20.18	23.16	≤ 23.44	Pass
11ac-VHT80	MCS0	122	5610	20.48	19.85	23.19	≤ 23.44	Pass
11ac-VHT80	MCS0	138	5690	20.21	20.00	23.12	≤ 23.44	Pass
11ac-VHT80	MCS0	155	5775	23.62	23.18	26.42	≤ 30.00	Pass
11ac-VHT160	MCS0	50	5250	16.75	16.95	19.86	≤ 23.98	Pass
11ac-VHT160	MCS0	114	5570	16.61	16.54	19.59	≤ 23.44	Pass
11ax-HE20	MCS0	36	5180	21.66	21.00	24.35	≤ 29.72	Pass
11ax-HE20	MCS0	40	5200	21.76	21.05	24.43	≤ 29.72	Pass
11ax-HE20	MCS0	48	5240	21.31	20.85	24.10	≤ 29.72	Pass
11ax-HE20	MCS0	52	5260	16.83	16.81	19.83	≤ 23.98	Pass
11ax-HE20	MCS0	60	5300	16.08	16.71	19.42	≤ 23.98	Pass
11ax-HE20	MCS0	64	5320	15.80	16.86	19.37	≤ 23.98	Pass
11ax-HE20	MCS0	100	5500	15.97	16.59	19.30	≤ 23.44	Pass
11ax-HE20	MCS0	116	5580	16.12	16.21	19.18	≤ 23.44	Pass
11ax-HE20	MCS0	140	5700	16.39	15.61	19.03	≤ 23.44	Pass
11ax-HE20	MCS0	144	5720	17.06	16.14	19.63	≤ 22.37	Pass
11ax-HE20	MCS0	149	5745	23.50	23.10	26.31	≤ 30.00	Pass
11ax-HE20	MCS0	157	5785	23.83	22.50	26.23	≤ 30.00	Pass
11ax-HE20	MCS0	165	5825	23.88	22.73	26.35	≤ 30.00	Pass
11ax-HE40	MCS0	38	5190	21.53	20.98	24.27	≤ 29.72	Pass
11ax-HE40	MCS0	46	5230	23.05	23.22	26.15	≤ 29.72	Pass
11ax-HE40	MCS0	54	5270	18.91	19.36	22.15	≤ 23.98	Pass
11ax-HE40	MCS0	62	5310	18.79	19.56	22.20	≤ 23.98	Pass
11ax-HE40	MCS0	102	5510	18.39	19.11	21.78	≤ 23.44	Pass
11ax-HE40	MCS0	110	5550	18.65	18.84	21.76	≤ 23.44	Pass
11ax-HE40	MCS0	134	5670	19.28	18.60	21.96	≤ 23.44	Pass
11ax-HE40	MCS0	142	5710	19.07	17.95	21.56	≤ 23.44	Pass
11ax-HE40	MCS0	151	5755	23.55	22.88	26.24	≤ 30.00	Pass
11ax-HE40	MCS0	159	5795	23.28	22.89	26.10	≤ 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-HE80	MCS0	42	5210	20.24	20.27	23.27	≤ 29.72	Pass
11ax-HE80	MCS0	58	5290	18.62	19.05	21.85	≤ 23.98	Pass
11ax-HE80	MCS0	106	5530	19.88	20.24	23.07	≤ 23.44	Pass
11ax-HE80	MCS0	122	5610	20.30	20.11	23.22	≤ 23.44	Pass
11ax-HE80	MCS0	138	5690	20.75	19.98	23.39	≤ 23.44	Pass
11ax-HE80	MCS0	155	5775	23.58	22.87	26.25	≤ 30.00	Pass
11ax-HE160	MCS0	50	5250	16.30	16.57	19.45	≤ 23.98	Pass
11ax-HE160	MCS0	114	5570	16.73	16.58	19.67	≤ 23.44	Pass
11be-EHT20	MCS0	36	5180	22.42	22.37	25.41	≤ 29.72	Pass
11be-EHT20	MCS0	40	5200	22.53	22.23	25.39	≤ 29.72	Pass
11be-EHT20	MCS0	48	5240	21.87	21.14	24.53	≤ 29.72	Pass
11be-EHT20	MCS0	52	5260	15.96	16.28	19.13	≤ 23.98	Pass
11be-EHT20	MCS0	60	5300	16.00	16.52	19.28	≤ 23.98	Pass
11be-EHT20	MCS0	64	5320	15.83	16.89	19.40	≤ 23.98	Pass
11be-EHT20	MCS0	100	5500	16.15	16.43	19.30	≤ 23.44	Pass
11be-EHT20	MCS0	116	5580	16.30	16.25	19.29	≤ 23.44	Pass
11be-EHT20	MCS0	140	5700	16.30	15.47	18.92	≤ 23.44	Pass
11be-EHT20	MCS0	144	5720	16.76	16.16	19.48	≤ 22.37	Pass
11be-EHT20	MCS0	149	5745	23.94	22.50	26.29	≤ 30.00	Pass
11be-EHT20	MCS0	157	5785	23.70	22.39	26.10	≤ 30.00	Pass
11be-EHT20	MCS0	165	5825	23.77	22.77	26.31	≤ 30.00	Pass
11be-EHT40	MCS0	38	5190	20.28	20.04	23.17	≤ 29.72	Pass
11be-EHT40	MCS0	46	5230	23.30	23.50	26.41	≤ 29.72	Pass
11be-EHT40	MCS0	54	5270	18.97	19.37	22.18	≤ 23.98	Pass
11be-EHT40	MCS0	62	5310	18.27	19.18	21.76	≤ 23.98	Pass
11be-EHT40	MCS0	102	5510	18.48	19.08	21.80	≤ 23.44	Pass
11be-EHT40	MCS0	110	5550	18.69	18.88	21.80	≤ 23.44	Pass
11be-EHT40	MCS0	134	5670	19.35	18.54	21.97	≤ 23.44	Pass
11be-EHT40	MCS0	142	5710	19.43	18.52	22.01	≤ 23.44	Pass
11be-EHT40	MCS0	151	5755	23.63	22.95	26.31	≤ 30.00	Pass
11be-EHT40	MCS0	159	5795	23.57	22.82	26.22	≤ 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-EHT80	MCS0	42	5210	20.45	20.67	23.57	≤ 29.72	Pass
11be-EHT80	MCS0	58	5290	18.50	19.10	21.82	≤ 23.98	Pass
11be-EHT80	MCS0	106	5530	20.02	20.17	23.11	≤ 23.44	Pass
11be-EHT80	MCS0	122	5610	20.41	20.22	23.33	≤ 23.44	Pass
11be-EHT80	MCS0	138	5690	20.87	19.89	23.42	≤ 23.44	Pass
11be-EHT80	MCS0	155	5775	23.62	22.81	26.24	≤ 30.00	Pass
11be-EHT160	MCS0	50	5250	17.30	17.52	20.42	≤ 23.98	Pass
11be-EHT160	MCS0	114	5570	18.34	18.37	21.37	≤ 23.44	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 5125 - 5250MHz Band: Average Power Limit (dBm) = 30 - (6.28- 6) = 29.72dBm

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

For 5470 - 5725MHz Band: Average Power Limit (dBm) = 23.98 - (6.54- 6) = 23.44dBm.

For 5725 - 5850MHz Band: Average Power Limit (dBm) = 30.00dBm.

For Channel 144 (5720MHz), Average Power Limit (dBm) = $11 + 10 \cdot \log(5\text{MHz} + BW_{26\text{dBc}}/2) - (6.54- 6)$

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.

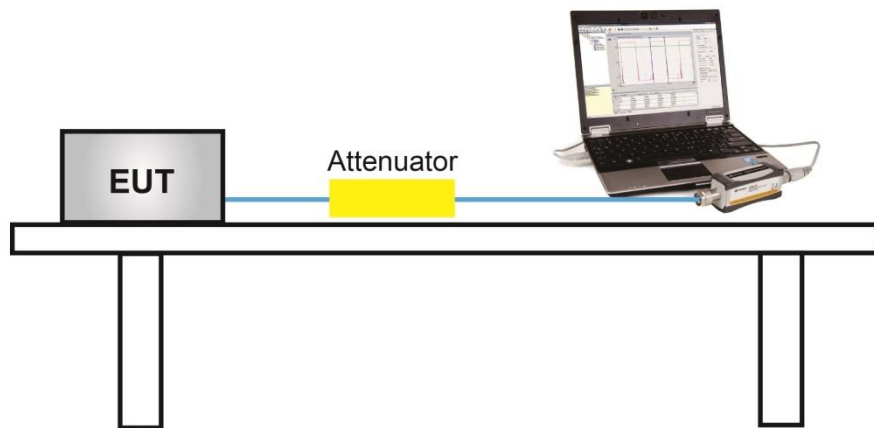
7.5.2. Test Procedure Used

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.

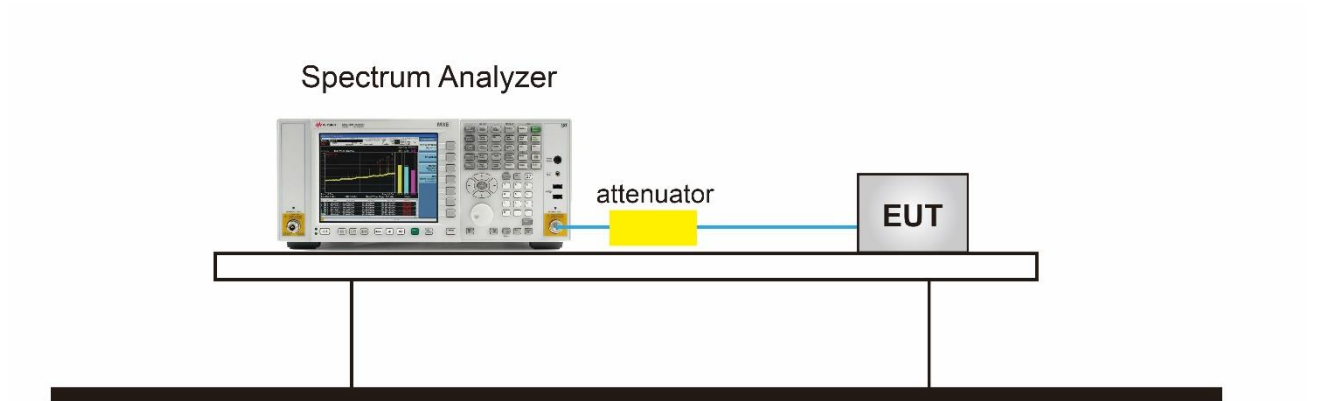
7.6.2. Test Procedure Used

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	BE3600 Whole Home Mesh Wi-Fi 7 System	Temperature	20°C
Test Engineer	Peter	Relative Humidity	54%
Test Site	SR6	Test Date	2024/12/12 ~ 2024/12/17
Test 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	14.748	11.952	99.35%	16.610	≤ 16.72	Pass
11a	6Mbps	40	5200	14.460	12.300	99.35%	16.552	≤ 16.72	Pass
11a	6Mbps	48	5240	13.026	12.776	99.35%	15.941	≤ 16.72	Pass
11a	6Mbps	52	5260	7.432	7.700	99.35%	10.607	≤ 11.00	Pass
11a	6Mbps	60	5300	7.261	7.796	99.35%	10.575	≤ 11.00	Pass
11a	6Mbps	64	5320	7.135	8.578	99.35%	10.955	≤ 11.00	Pass
11a	6Mbps	100	5500	6.334	7.899	99.35%	10.225	≤ 10.46	Pass
11a	6Mbps	116	5580	6.750	7.348	99.35%	10.098	≤ 10.46	Pass
11a	6Mbps	140	5700	7.347	6.305	99.35%	9.896	≤ 10.46	Pass
11a	6Mbps	144	5720	7.673	6.874	99.35%	10.330	≤ 10.46	Pass
11ac-VHT20	MCS0	36	5180	14.454	10.497	96.79%	16.063	≤ 16.72	Pass
11ac-VHT20	MCS0	40	5200	14.403	11.304	96.79%	16.276	≤ 16.72	Pass
11ac-VHT20	MCS0	48	5240	13.782	12.740	96.79%	16.444	≤ 16.72	Pass
11ac-VHT20	MCS0	52	5260	7.924	7.363	96.79%	10.805	≤ 11.00	Pass
11ac-VHT20	MCS0	60	5300	6.712	7.989	96.79%	10.549	≤ 11.00	Pass
11ac-VHT20	MCS0	64	5320	6.565	8.675	96.79%	10.899	≤ 11.00	Pass
11ac-VHT20	MCS0	100	5500	5.774	7.749	96.79%	10.025	≤ 10.46	Pass
11ac-VHT20	MCS0	116	5580	6.103	7.341	96.79%	9.918	≤ 10.46	Pass
11ac-VHT20	MCS0	140	5700	7.867	5.751	96.79%	10.089	≤ 10.46	Pass
11ac-VHT20	MCS0	144	5720	7.946	5.558	96.79%	10.066	≤ 10.46	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	11.456	7.983	99.62%	13.085	≤ 16.72	Pass
11ac-VHT40	MCS0	46	5230	12.314	11.122	99.62%	14.786	≤ 16.72	Pass
11ac-VHT40	MCS0	54	5270	7.718	7.991	99.62%	10.883	≤ 11.00	Pass
11ac-VHT40	MCS0	62	5310	6.560	8.215	99.62%	10.493	≤ 11.00	Pass
11ac-VHT40	MCS0	102	5510	5.628	8.055	99.62%	10.036	≤ 10.46	Pass
11ac-VHT40	MCS0	110	5550	6.163	7.606	99.62%	9.971	≤ 10.46	Pass
11ac-VHT40	MCS0	134	5670	7.016	6.421	99.62%	9.756	≤ 10.46	Pass
11ac-VHT40	MCS0	142	5710	8.193	6.426	99.62%	10.426	≤ 10.46	Pass
11ac-VHT80	MCS0	42	5210	6.755	4.542	97.30%	8.917	≤ 16.72	Pass
11ac-VHT80	MCS0	58	5290	4.256	4.758	97.30%	7.643	≤ 11.00	Pass
11ac-VHT80	MCS0	106	5530	5.516	6.983	97.30%	9.440	≤ 10.46	Pass
11ac-VHT80	MCS0	122	5610	5.960	6.622	97.30%	9.433	≤ 10.46	Pass
11ac-VHT80	MCS0	138	5690	7.037	5.737	97.30%	9.565	≤ 10.46	Pass
11ac-VHT160	MCS0	50	5250	-0.786	-0.695	97.31%	2.388	≤ 11.00	Pass
11ac-VHT160	MCS0	114	5570	-1.534	-0.673	97.31%	2.047	≤ 10.46	Pass
11ax-HE20	MCS0	36	5180	14.662	10.890	96.80%	16.325	≤ 16.72	Pass
11ax-HE20	MCS0	40	5200	14.230	11.500	96.80%	16.228	≤ 16.72	Pass
11ax-HE20	MCS0	48	5240	13.578	12.128	96.80%	16.065	≤ 16.72	Pass
11ax-HE20	MCS0	52	5260	7.834	7.484	96.80%	10.814	≤ 11.00	Pass
11ax-HE20	MCS0	60	5300	6.944	8.173	96.80%	10.753	≤ 11.00	Pass
11ax-HE20	MCS0	64	5320	6.715	8.142	96.80%	10.638	≤ 11.00	Pass
11ax-HE20	MCS0	100	5500	5.671	7.910	96.80%	10.085	≤ 10.46	Pass
11ax-HE20	MCS0	116	5580	6.313	7.407	96.80%	10.046	≤ 10.46	Pass
11ax-HE20	MCS0	140	5700	7.150	6.380	96.80%	9.934	≤ 10.46	Pass
11ax-HE20	MCS0	144	5720	8.001	5.814	96.80%	10.195	≤ 10.46	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	10.902	7.681	97.66%	12.697	≤ 16.72	Pass
11ax-HE40	MCS0	46	5230	12.052	11.119	97.66%	14.724	≤ 16.72	Pass
11ax-HE40	MCS0	54	5270	7.574	7.784	97.66%	10.793	≤ 11.00	Pass
11ax-HE40	MCS0	62	5310	5.978	7.906	97.66%	10.161	≤ 11.00	Pass
11ax-HE40	MCS0	102	5510	5.758	7.755	97.66%	9.983	≤ 10.46	Pass
11ax-HE40	MCS0	110	5550	6.040	7.653	97.66%	10.034	≤ 10.46	Pass
11ax-HE40	MCS0	134	5670	7.380	6.634	97.66%	10.136	≤ 10.46	Pass
11ax-HE40	MCS0	142	5710	7.796	5.704	97.66%	9.988	≤ 10.46	Pass
11ax-HE80	MCS0	42	5210	6.474	4.578	98.37%	8.710	≤ 16.72	Pass
11ax-HE80	MCS0	58	5290	4.226	5.413	98.37%	7.942	≤ 11.00	Pass
11ax-HE80	MCS0	106	5530	5.595	6.800	98.37%	9.321	≤ 10.46	Pass
11ax-HE80	MCS0	122	5610	5.632	6.548	98.37%	9.196	≤ 10.46	Pass
11ax-HE80	MCS0	122	5690	6.789	5.825	98.37%	9.415	≤ 10.46	Pass
11ax-HE160	MCS0	50	5250	-0.800	-1.060	97.12%	2.209	≤ 11.00	Pass
11ax-HE160	MCS0	114	5570	-1.673	-0.510	97.12%	2.085	≤ 10.46	Pass
11be-EHT20	MCS0	36	5180	14.724	11.250	98.91%	16.383	≤ 16.72	Pass
11be-EHT20	MCS0	40	5200	14.646	12.079	98.91%	16.607	≤ 16.72	Pass
11be-EHT20	MCS0	48	5240	13.825	12.481	98.91%	16.263	≤ 16.72	Pass
11be-EHT20	MCS0	52	5260	7.139	7.101	98.91%	10.178	≤ 11.00	Pass
11be-EHT20	MCS0	60	5300	6.888	7.493	98.91%	10.259	≤ 11.00	Pass
11be-EHT20	MCS0	64	5320	6.285	8.877	98.91%	10.829	≤ 11.00	Pass
11be-EHT20	MCS0	100	5500	5.668	8.005	98.91%	10.050	≤ 10.46	Pass
11be-EHT20	MCS0	116	5580	5.960	7.354	98.91%	9.771	≤ 10.46	Pass
11be-EHT20	MCS0	140	5700	7.353	5.952	98.91%	9.767	≤ 10.46	Pass
11be-EHT20	MCS0	144	5720	8.370	6.100	98.91%	10.440	≤ 10.46	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	9.449	7.049	97.31%	11.541	≤ 16.72	Pass
11be-EHT40	MCS0	46	5230	12.286	10.973	97.31%	14.808	≤ 16.72	Pass
11be-EHT40	MCS0	54	5270	7.767	7.840	97.31%	10.932	≤ 11.00	Pass
11be-EHT40	MCS0	62	5310	6.248	8.064	97.31%	10.379	≤ 11.00	Pass
11be-EHT40	MCS0	102	5510	6.175	7.566	97.31%	10.055	≤ 10.46	Pass
11be-EHT40	MCS0	110	5550	6.104	7.291	97.31%	9.867	≤ 10.46	Pass
11be-EHT40	MCS0	134	5670	7.338	6.625	97.31%	10.125	≤ 10.46	Pass
11be-EHT40	MCS0	142	5710	8.106	6.345	97.31%	10.443	≤ 10.46	Pass
11be-EHT80	MCS0	42	5210	6.961	5.096	96.11%	9.310	≤ 16.72	Pass
11be-EHT80	MCS0	58	5290	4.308	4.992	96.11%	7.846	≤ 11.00	Pass
11be-EHT80	MCS0	106	5530	5.193	6.860	96.11%	9.289	≤ 10.46	Pass
11be-EHT80	MCS0	122	5610	6.236	6.681	96.11%	9.647	≤ 10.46	Pass
11be-EHT80	MCS0	138	5690	6.619	6.032	96.11%	9.518	≤ 10.46	Pass
11be-EHT160	MCS0	50	5250	0.120	-0.449	96.80%	2.996	≤ 11.00	Pass
11be-EHT160	MCS0	114	5570	0.128	1.006	96.80%	3.741	≤ 10.46	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 - (6.28 - 6) = 16.72dBm/MHz.

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

For 5470 - 5725MHz Band: PSD Limit (dBm/MHz) = 11 - (6.54 - 6) = 10.46dBm/MHz.

Product	BE3600 Whole Home Mesh Wi-Fi 7 System	Temperature	20°C
Test Engineer	Peter	Relative Humidity	54%
Test Site	SR6	Test Date	2024/12/12 ~ 2024/12/17
Test Mode	Power Spectral Density (U-NII-3) CDD Mode		

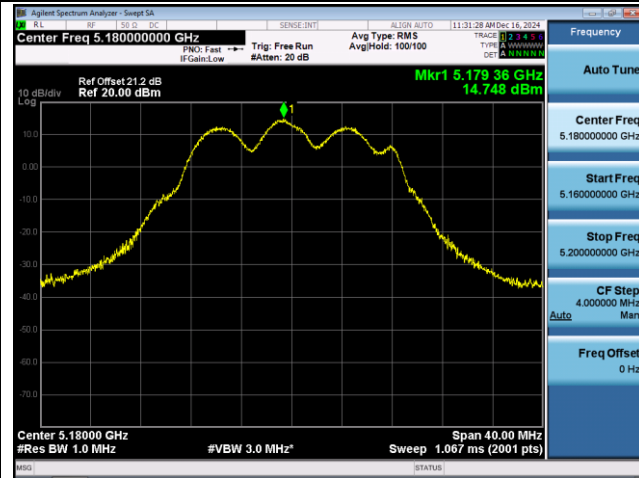
Test Mode	Data Rate/MCS	Ch. No.	Freq. (MHz)	Ant 0 PSD (dBm/510KHz)	Ant 1 PSD (dBm/510KHz)	Duty Cycle (%)	Total PSD (dBm/510kHz)	Limit (dBm/500kHz)	Result
11a	6Mbps	149	5745	13.353	10.737	99.35%	15.278	≤ 30.00	Pass
11a	6Mbps	157	5785	12.958	10.025	99.35%	14.773	≤ 30.00	Pass
11a	6Mbps	165	5825	13.689	10.186	99.35%	15.320	≤ 30.00	Pass
11ac-VHT20	MCS0	149	5745	12.722	8.862	96.79%	14.359	≤ 30.00	Pass
11ac-VHT20	MCS0	157	5785	12.805	8.360	96.79%	14.280	≤ 30.00	Pass
11ac-VHT20	MCS0	165	5825	12.770	9.163	96.79%	14.483	≤ 30.00	Pass
11ac-VHT40	MCS0	151	5755	10.807	7.413	99.62%	12.460	≤ 30.00	Pass
11ac-VHT40	MCS0	159	5795	10.374	6.621	99.62%	11.918	≤ 30.00	Pass
11ac-VHT80	MCS0	155	5775	7.698	4.352	97.30%	9.469	≤ 30.00	Pass
11ax-HE20	MCS0	149	5745	12.334	8.793	96.80%	14.066	≤ 30.00	Pass
11ax-HE20	MCS0	157	5785	13.084	8.955	96.80%	14.644	≤ 30.00	Pass
11ax-HE20	MCS0	165	5825	12.467	9.244	96.80%	14.299	≤ 30.00	Pass
11ax-HE40	MCS0	151	5755	10.513	7.044	97.66%	12.229	≤ 30.00	Pass
11ax-HE40	MCS0	159	5795	10.842	6.551	97.66%	12.319	≤ 30.00	Pass
11ax-HE80	MCS0	155	5775	7.557	3.925	98.37%	9.192	≤ 30.00	Pass
11be-EHT20	MCS0	149	5745	12.710	9.132	98.91%	14.337	≤ 30.00	Pass
11be-EHT20	MCS0	157	5785	12.565	9.131	98.91%	14.237	≤ 30.00	Pass
11be-EHT20	MCS0	165	5825	12.734	8.875	98.91%	14.278	≤ 30.00	Pass
11be-EHT40	MCS0	151	5755	10.626	7.138	97.31%	12.352	≤ 30.00	Pass
11be-EHT40	MCS0	159	5795	10.923	6.623	97.31%	12.413	≤ 30.00	Pass
11be-EHT80	MCS0	155	5775	7.550	4.623	96.11%	9.511	≤ 30.00	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) + $10 \cdot \log (1/\text{Duty Cycle})$.

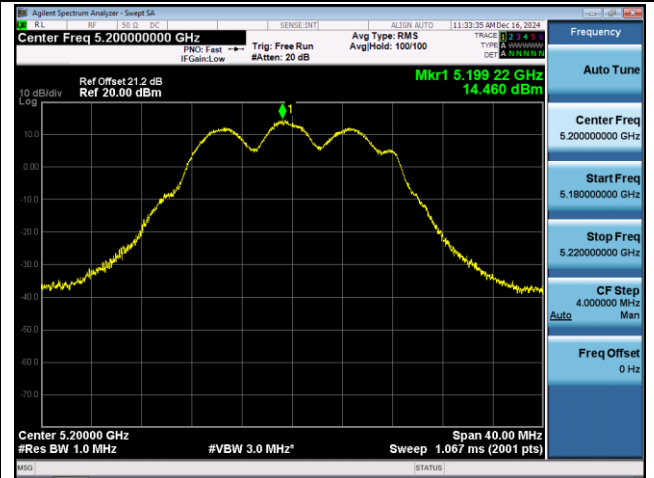
Note 2: PSD Limit (dBm/500kHz) = 30.00 (dBm/500kHz).

802.11a Power Spectral Density - Ant 0

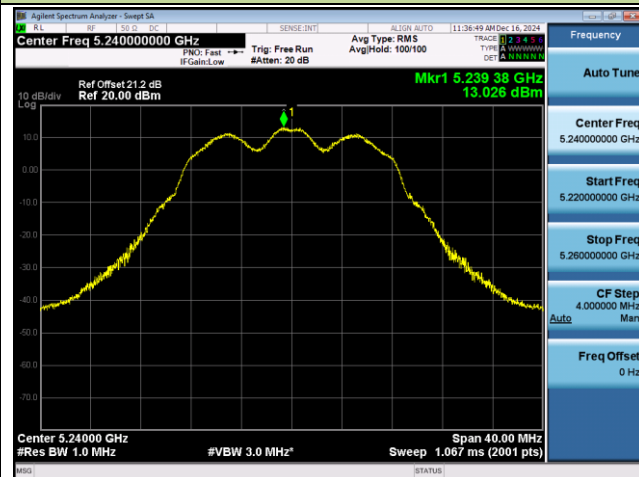
Channel 36 (5180MHz)



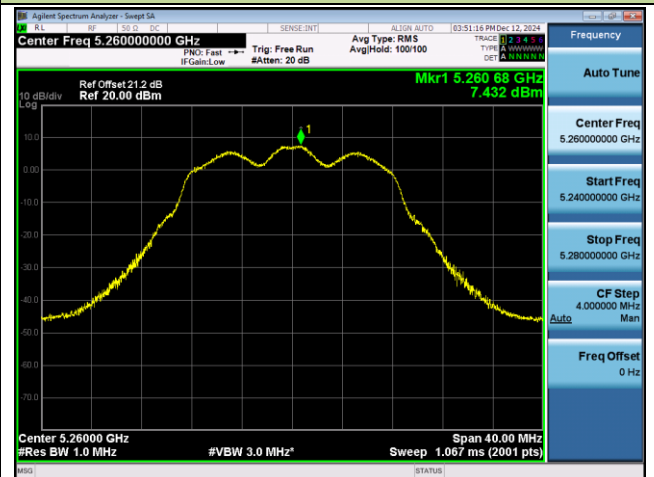
Channel 40 (5200MHz)



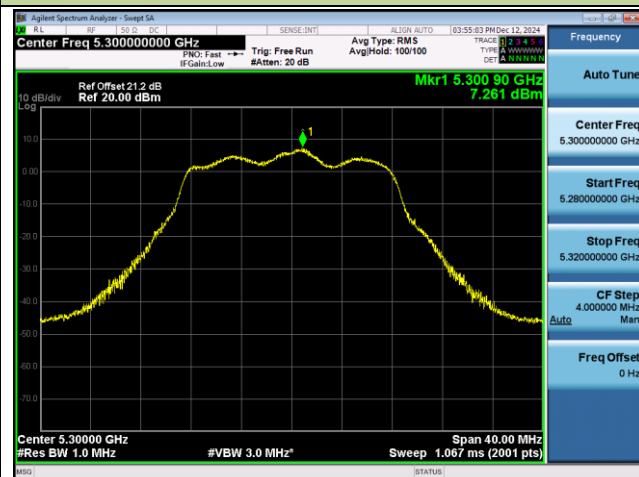
Channel 48 (5240MHz)



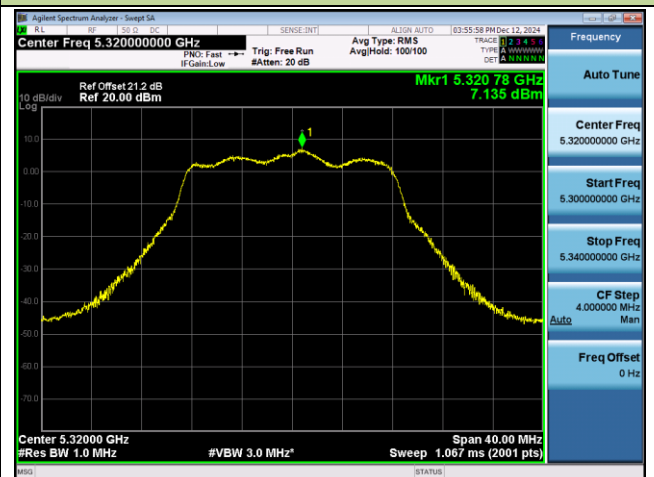
Channel 52 (5260MHz)

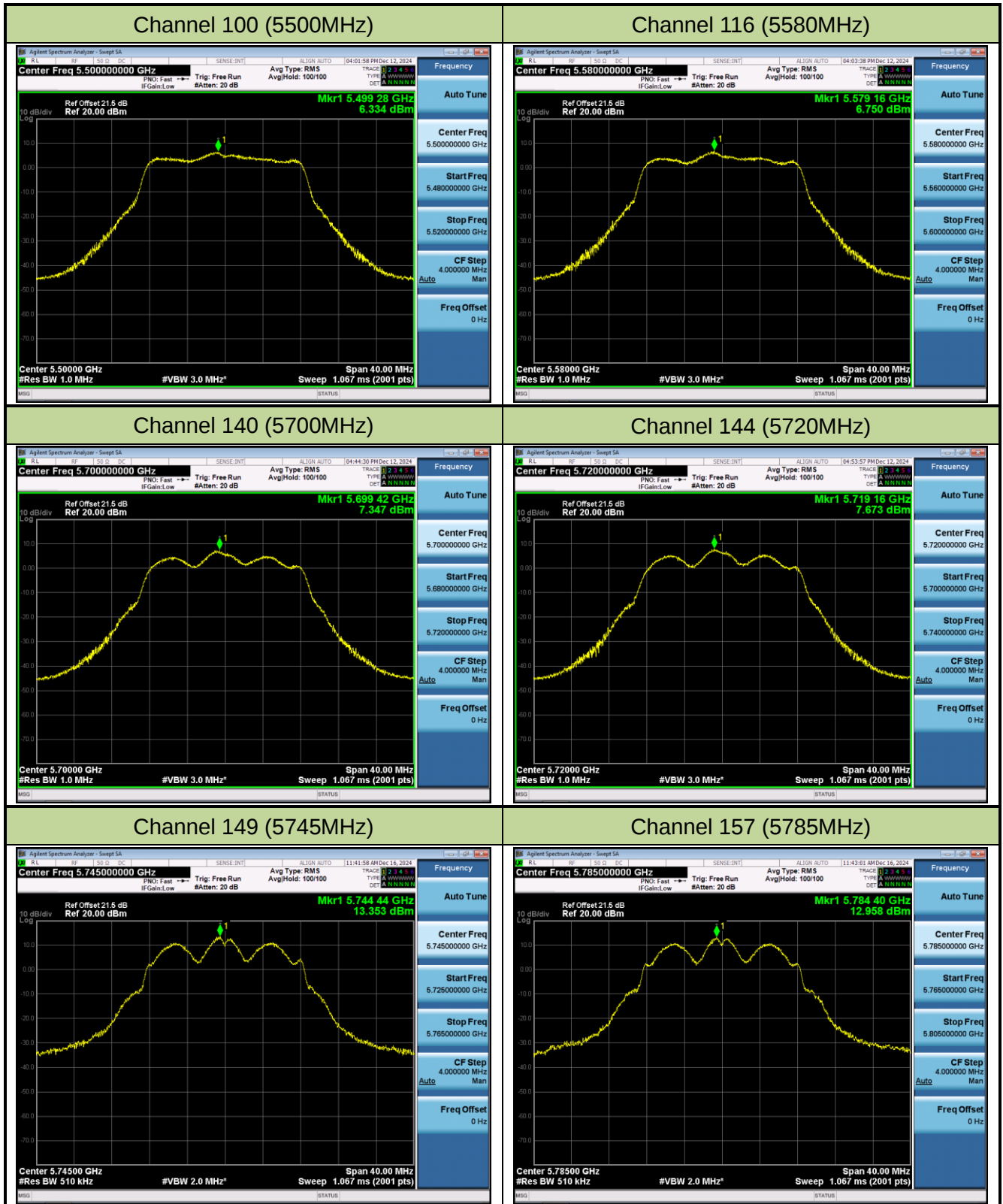


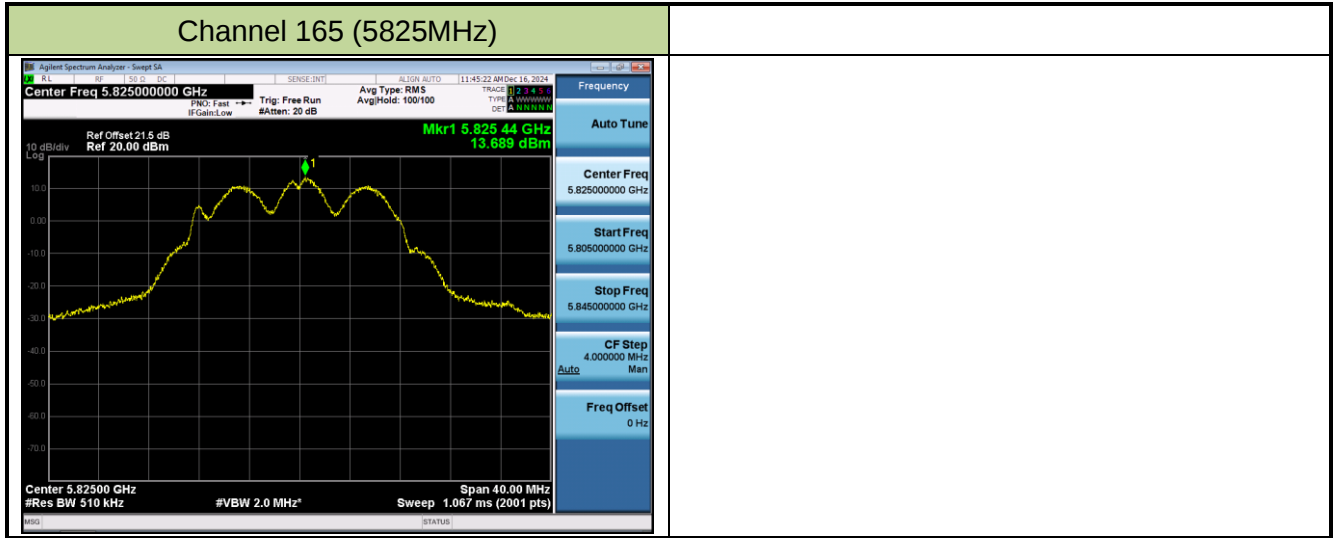
Channel 60 (5300MHz)



Channel 64 (5320MHz)

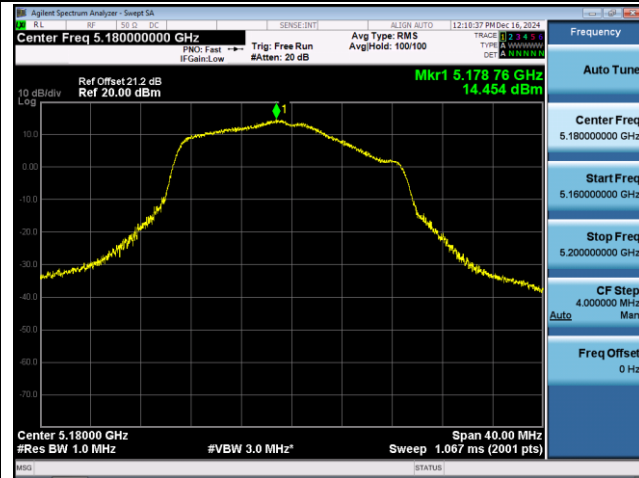




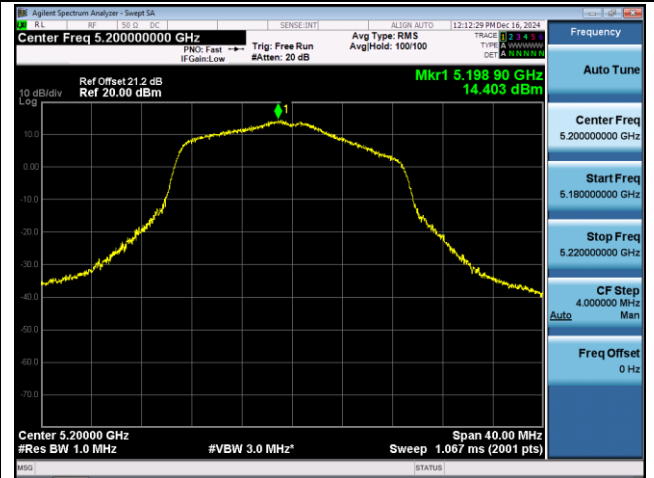


802.11ac-VHT20 Power Spectral Density - Ant 0

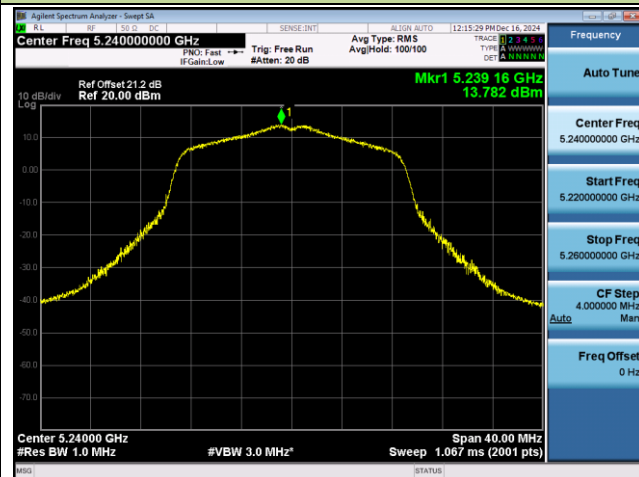
Channel 36 (5180MHz)



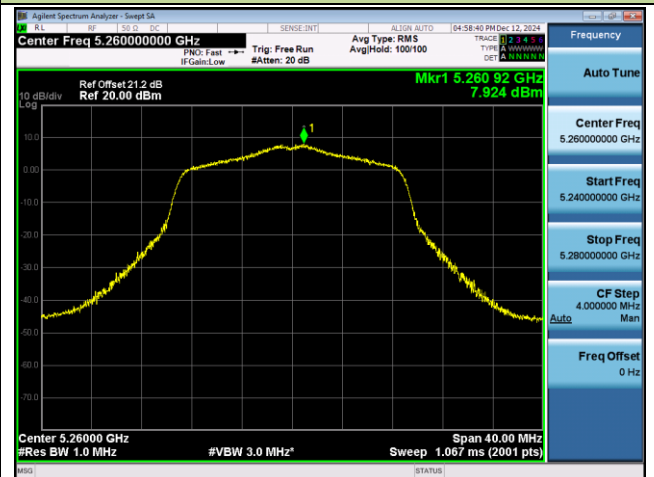
Channel 40 (5200MHz)



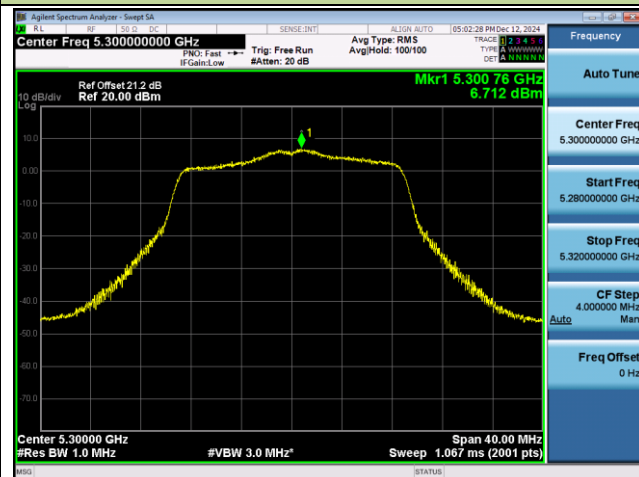
Channel 48 (5240MHz)



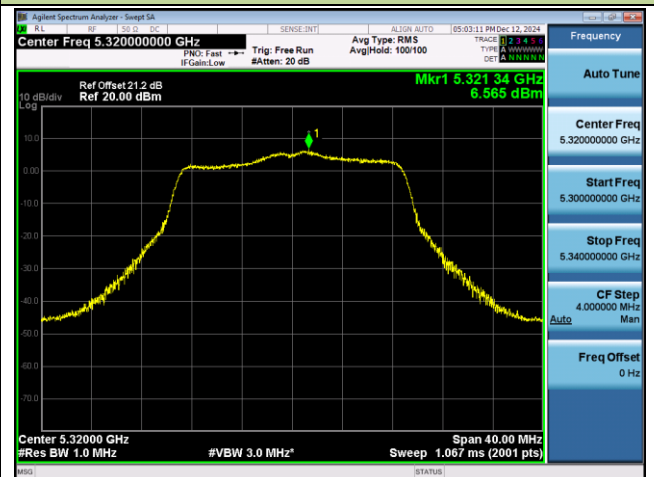
Channel 52 (5260MHz)



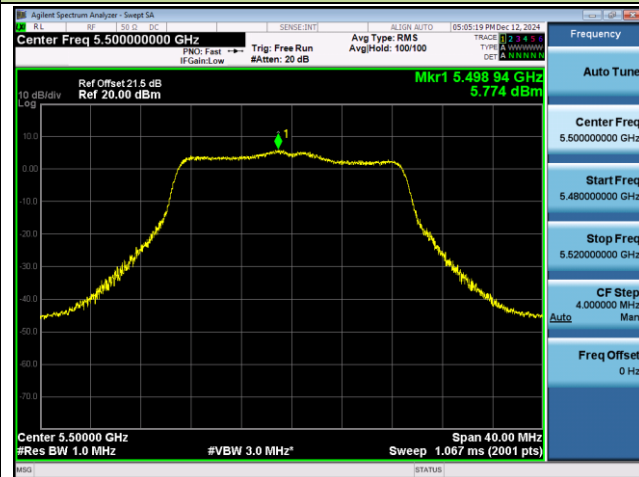
Channel 60 (5300MHz)



Channel 64 (5320MHz)



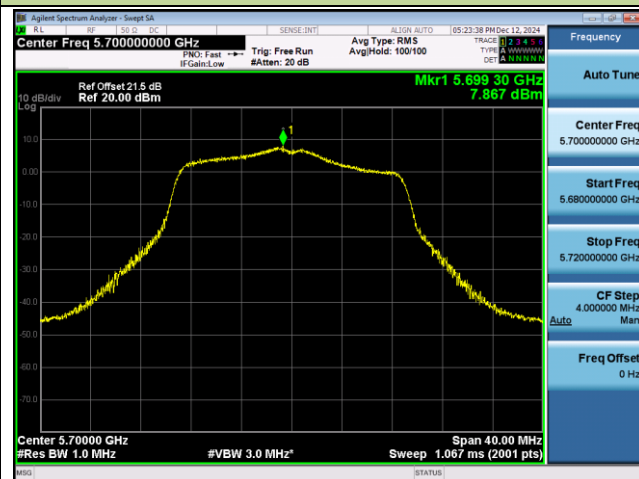
Channel 100 (5500MHz)



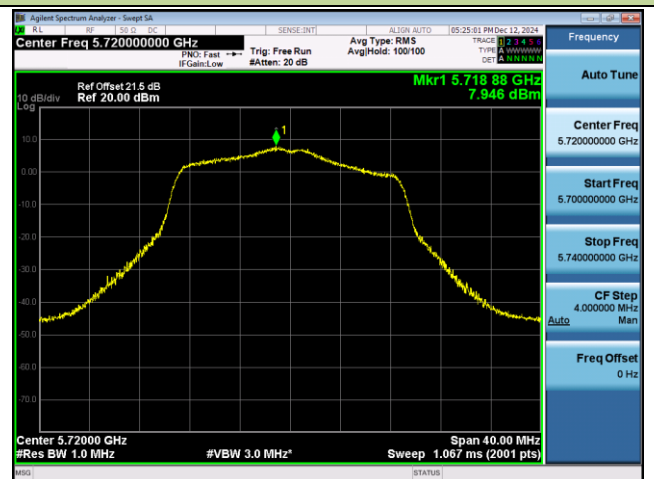
Channel 116 (5580MHz)



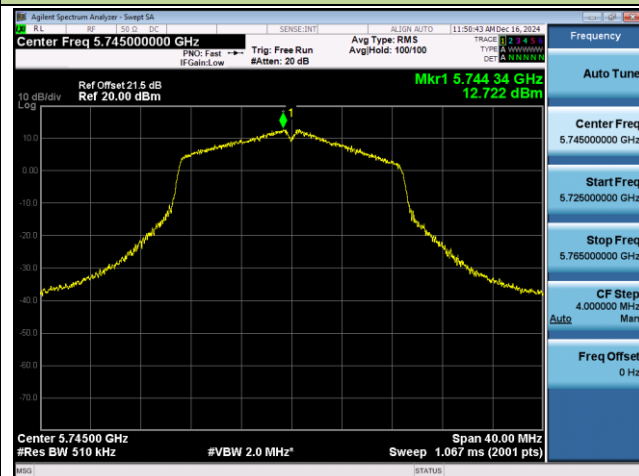
Channel 140 (5700MHz)



Channel 144 (5720MHz)



Channel 149 (5745MHz)



Channel 157 (5785MHz)

