

Product	BE11000 Tri-Band Wi-Fi 7 Gaming Router	Test Engineer	Peter
Test Site	SR6	Test Date	2024/12/9~2024/12/11
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	10.444	10.210	98.56%	13.402	≤ 30.00	Pass
11a	6Mbps	157	5785	11.096	10.021	98.56%	13.665	≤ 30.00	Pass
11a	6Mbps	165	5825	10.682	10.294	98.56%	13.566	≤ 30.00	Pass
11ac-VHT20	MCS0	149	5745	10.103	10.101	99.19%	13.148	≤ 30.00	Pass
11ac-VHT20	MCS0	157	5785	10.918	10.051	99.19%	13.552	≤ 30.00	Pass
11ac-VHT20	MCS0	165	5825	10.396	9.693	99.19%	13.104	≤ 30.00	Pass
11ac-VHT40	MCS0	151	5755	7.068	6.810	99.65%	9.966	≤ 30.00	Pass
11ac-VHT40	MCS0	159	5795	7.657	7.422	99.65%	10.567	≤ 30.00	Pass
11ac-VHT80	MCS0	155	5775	4.604	3.795	99.05%	7.270	≤ 30.00	Pass
11ax-HE20	MCS0	149	5745	9.919	10.202	99.27%	13.105	≤ 30.00	Pass
11ax-HE20	MCS0	157	5785	10.594	9.531	99.27%	13.137	≤ 30.00	Pass
11ax-HE20	MCS0	165	5825	10.048	9.098	99.27%	12.641	≤ 30.00	Pass
11ax-HE40	MCS0	151	5755	6.863	6.577	99.11%	9.771	≤ 30.00	Pass
11ax-HE40	MCS0	159	5795	7.675	7.210	99.11%	10.498	≤ 30.00	Pass
11ax-HE80	MCS0	155	5775	4.578	3.644	99.12%	7.185	≤ 30.00	Pass
11be-EHT20	MCS0	149	5745	10.278	9.686	99.29%	13.033	≤ 30.00	Pass
11be-EHT20	MCS0	157	5785	10.494	9.518	99.29%	13.075	≤ 30.00	Pass
11be-EHT20	MCS0	165	5825	10.409	9.521	99.29%	13.029	≤ 30.00	Pass
11be-EHT40	MCS0	151	5755	7.330	7.522	99.47%	10.460	≤ 30.00	Pass
11be-EHT40	MCS0	159	5795	7.275	7.450	99.47%	10.397	≤ 30.00	Pass
11be-EHT80	MCS0	155	5775	4.619	3.698	99.30%	7.224	≤ 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)



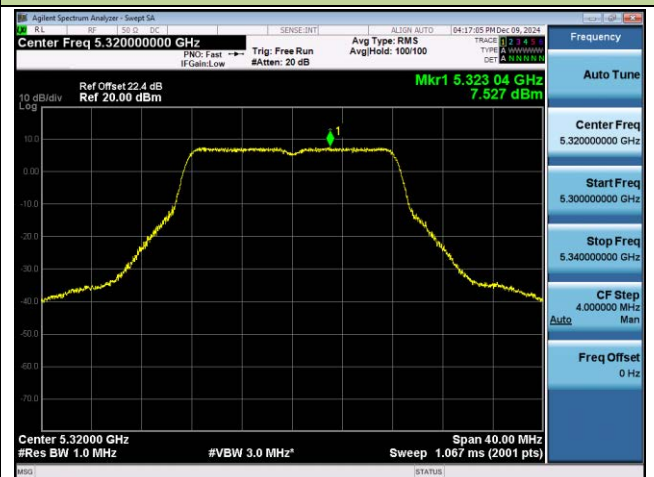
Channel 52 (5260MHz)

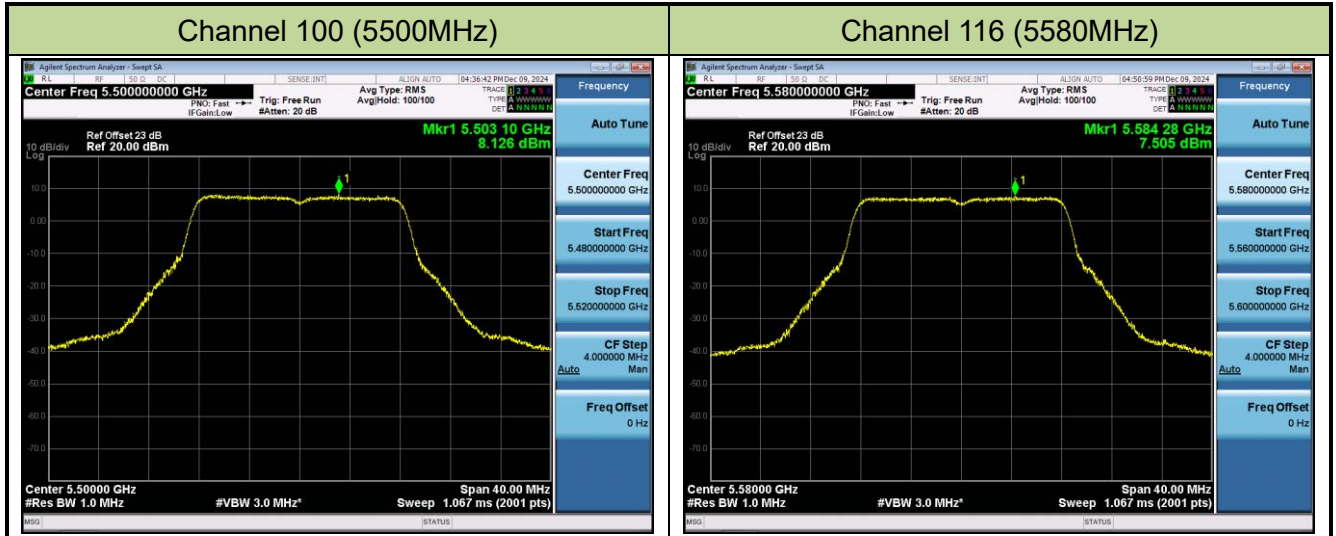


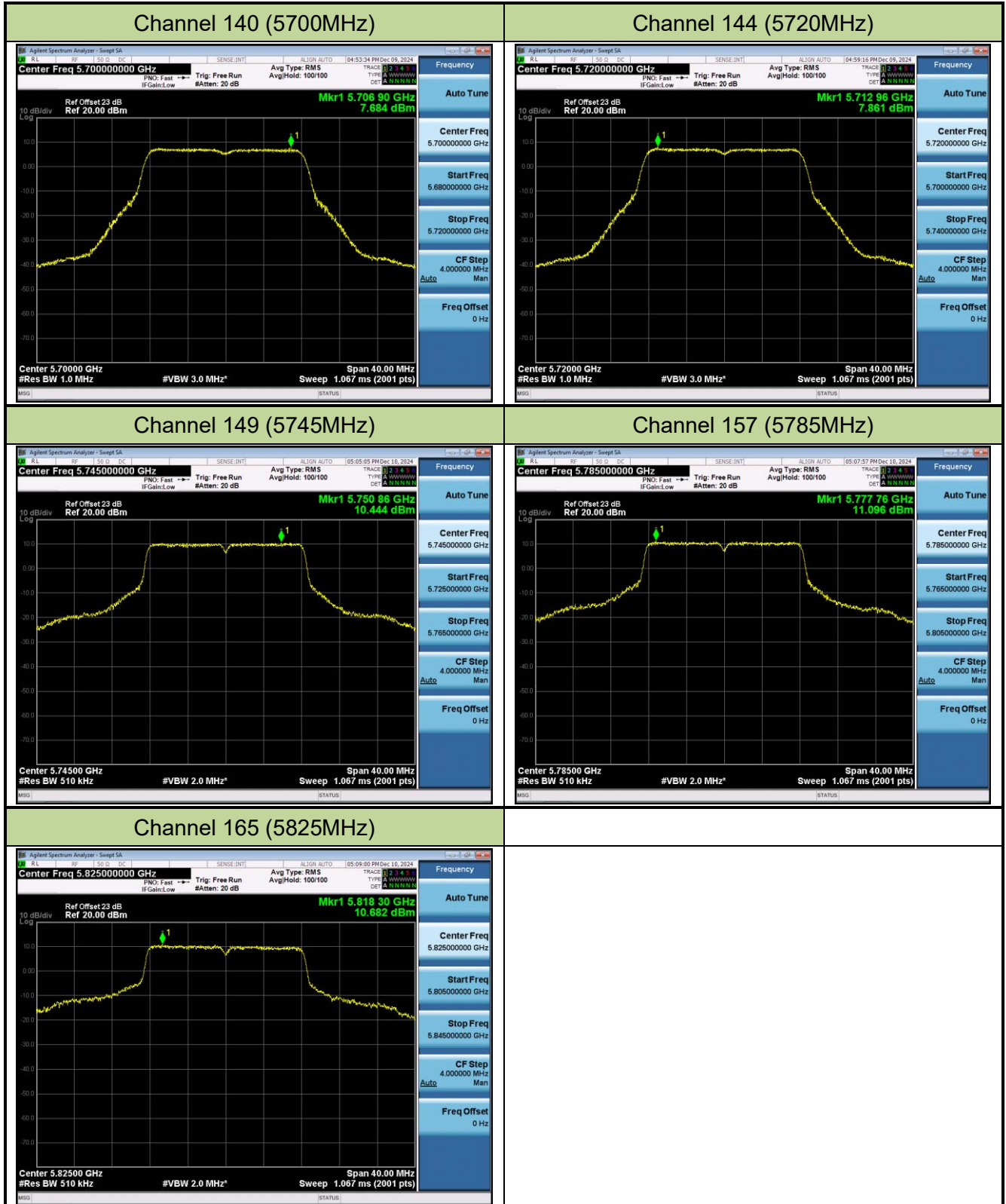
Channel 60 (5300MHz)



Channel 64 (5320MHz)





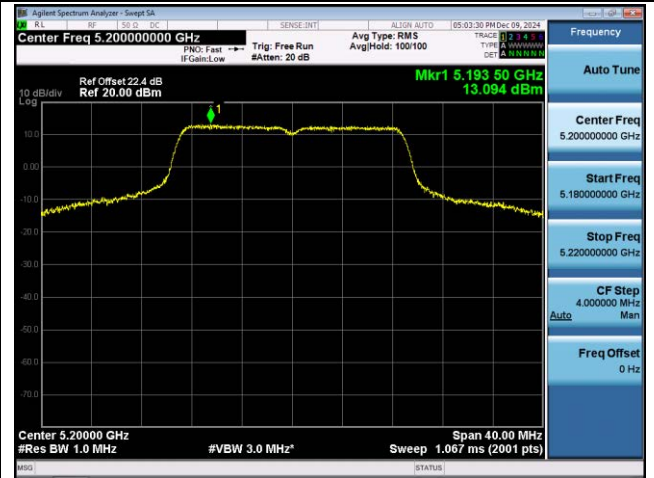


802.11ac-VHT20 Power Spectral Density - Ant 0

Channel 36 (5180MHz)



Channel 40 (5200MHz)



Channel 48 (5240MHz)



Channel 52 (5260MHz)

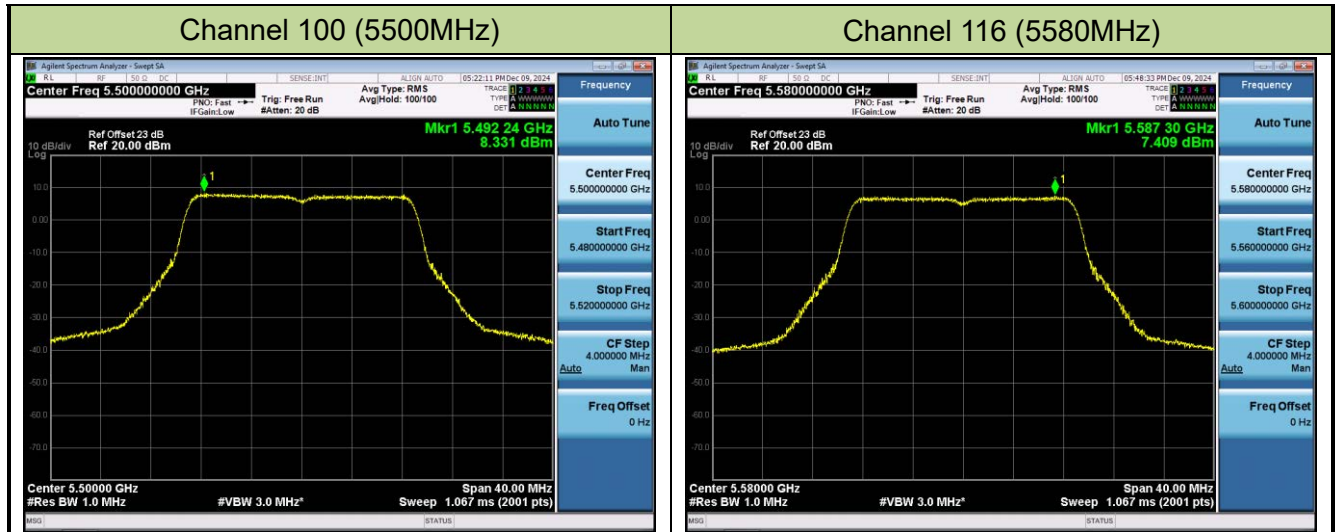


Channel 60 (5300MHz)



Channel 64 (5320MHz)





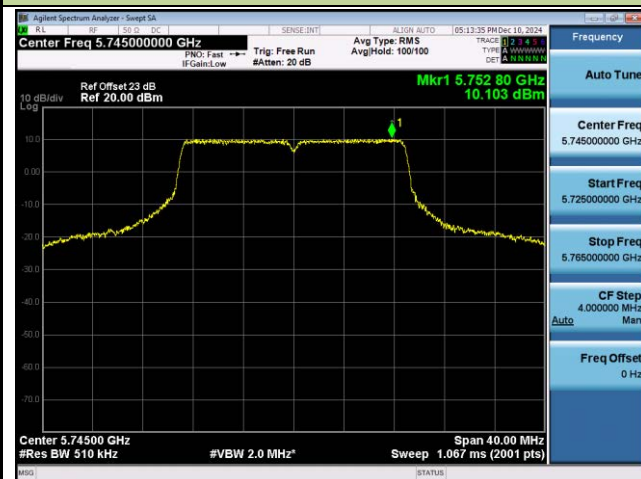
Channel 140 (5700MHz)



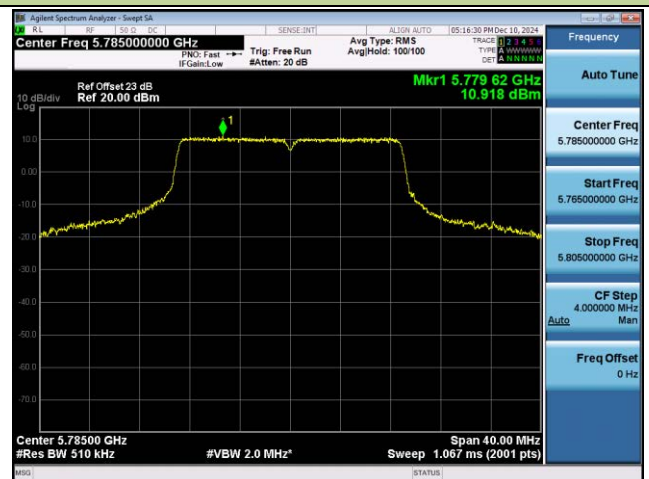
Channel 144 (5720MHz)



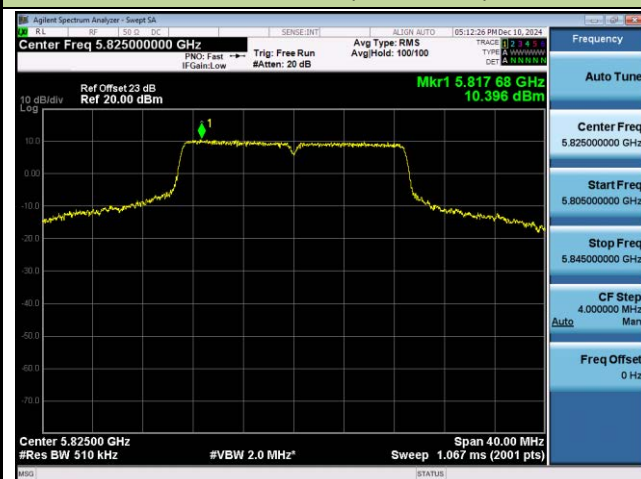
Channel 149 (5745MHz)



Channel 157 (5785MHz)

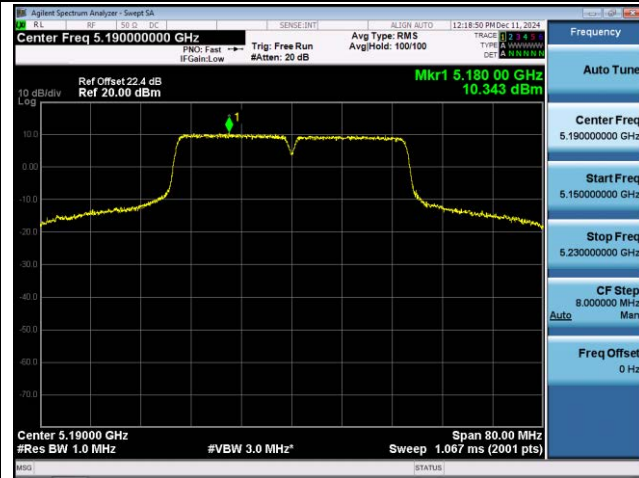


Channel 165 (5825MHz)

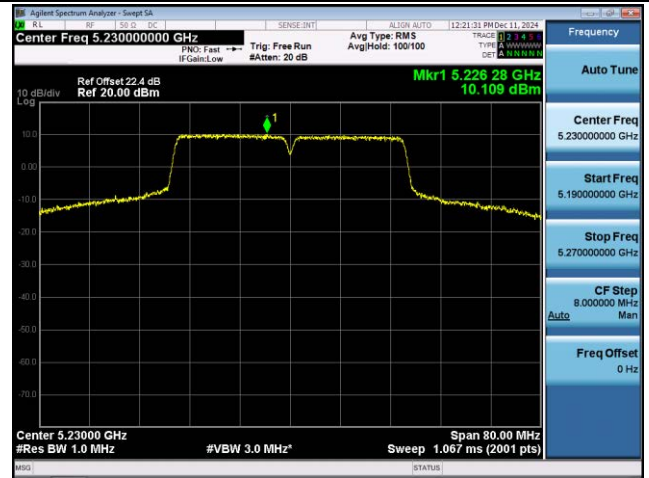


802.11ac-VHT40 Power Spectral Density - Ant 0

Channel 38 (5190MHz)



Channel 46 (5230MHz)



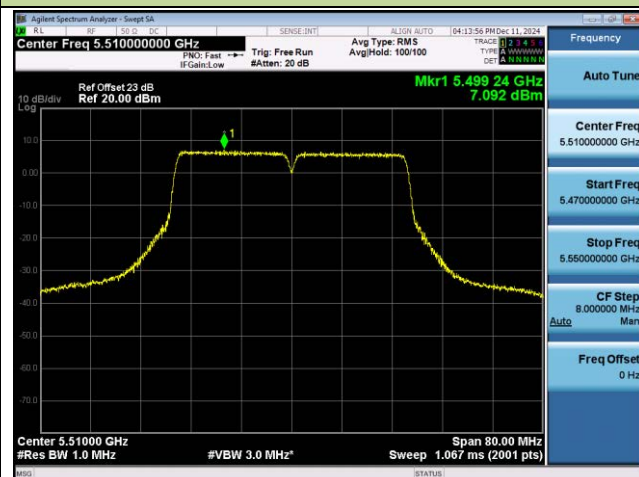
Channel 54 (5270MHz)



Channel 62 (5310MHz)



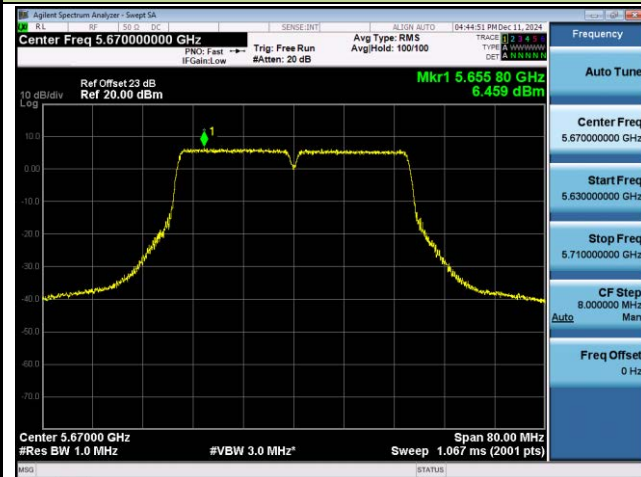
Channel 102 (5510MHz)



Channel 110 (5550MHz)



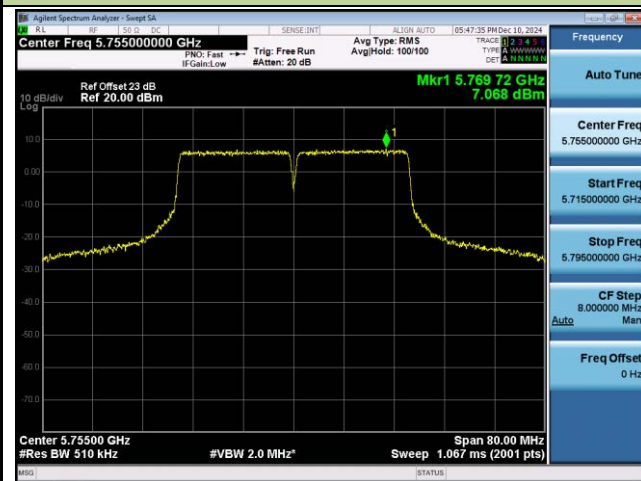
Channel 134 (5670MHz)



Channel 142 (5710MHz)



Channel 151 (5755MHz)

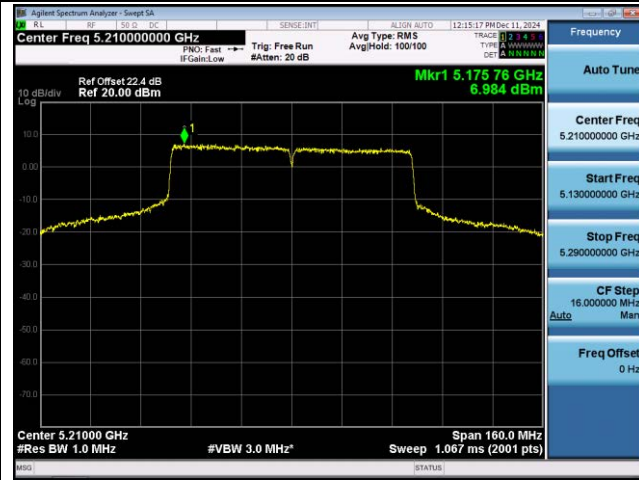


Channel 159 (5795MHz)



802.11ac-VHT80 Power Spectral Density - Ant 0

Channel 42 (5210MHz)



Channel 58 (5290MHz)



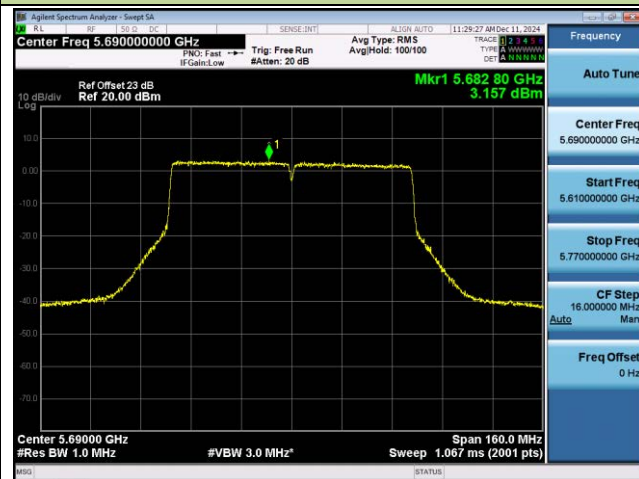
Channel 106 (5530MHz)



Channel 122 (5610MHz)



Channel 138 (5690MHz)

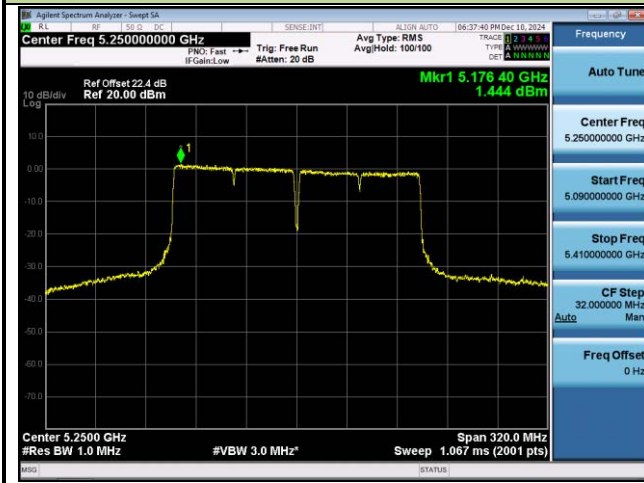


Channel 155 (5775MHz)

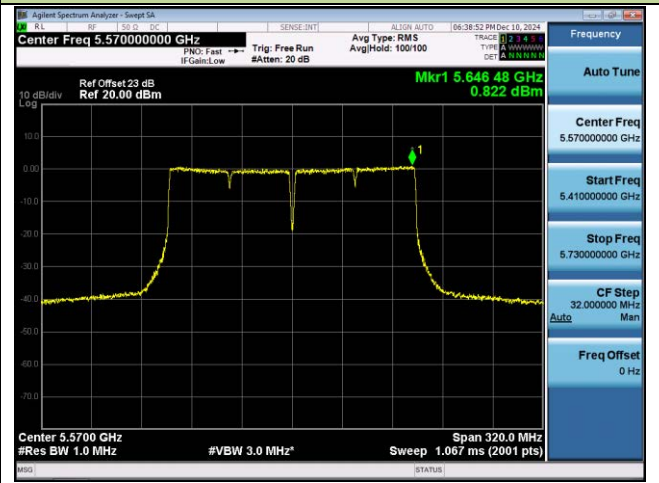


802.11ac-VHT160 Power Spectral Density - Ant 0

Channel 50 (5250MHz)

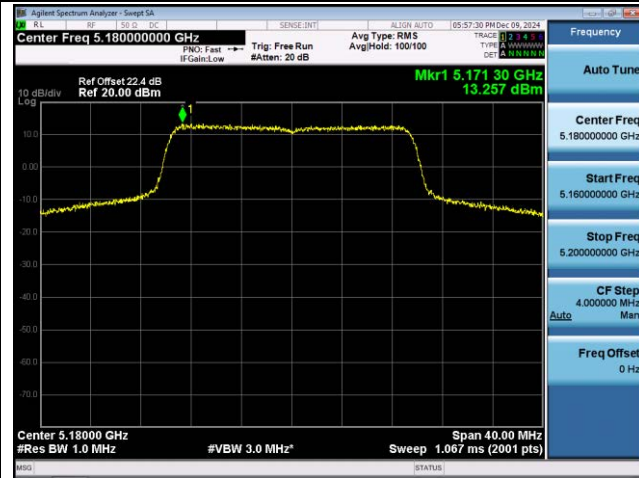


Channel 114 (5570MHz)



802.11ax-HE20 Power Spectral Density - Ant 0

Channel 36 (5180MHz)



Channel 40 (5200MHz)



Channel 48 (5240MHz)



Channel 52 (5260MHz)

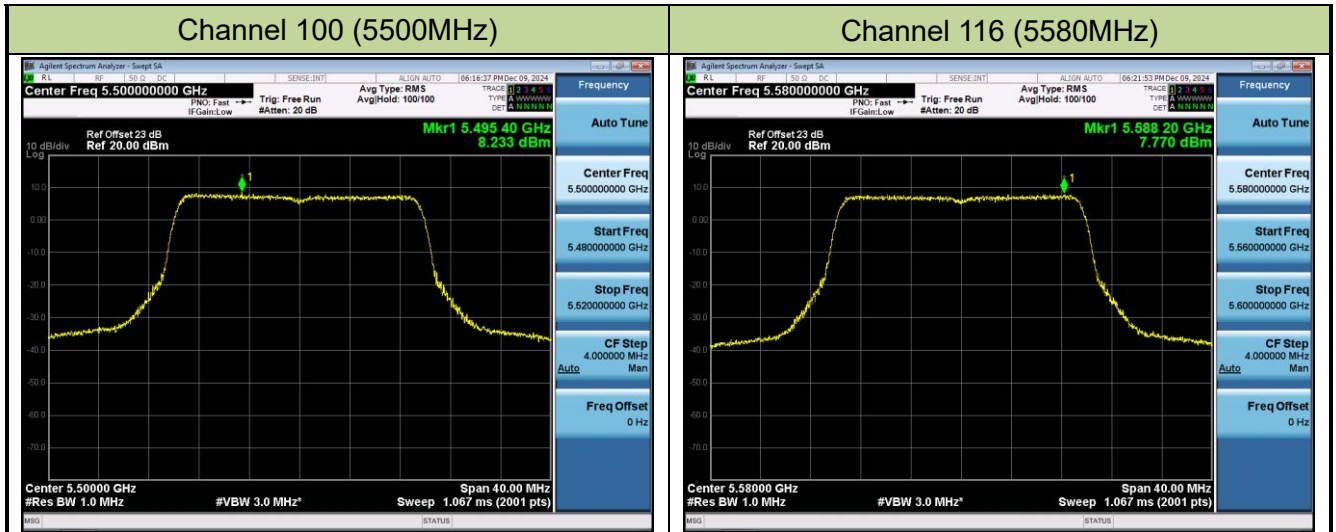


Channel 60 (5300MHz)



Channel 64 (5320MHz)





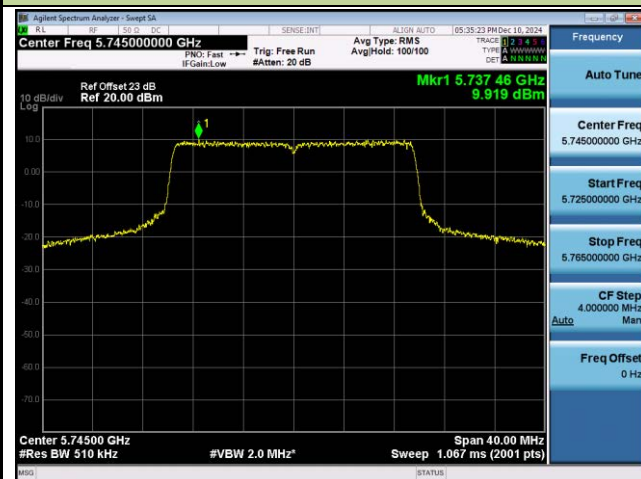
Channel 140 (5700MHz)



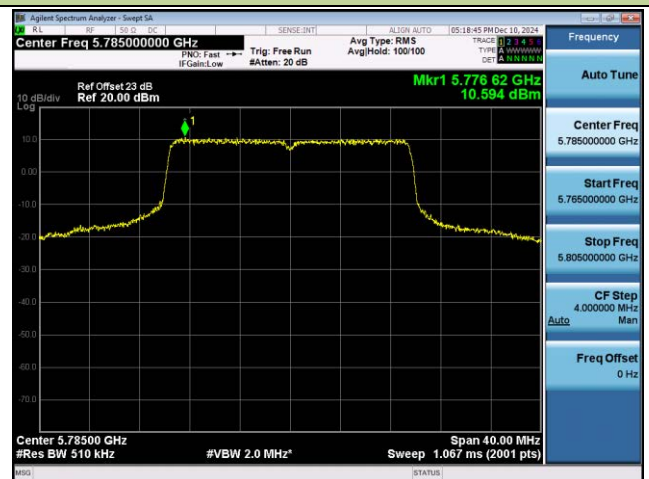
Channel 144 (5720MHz)



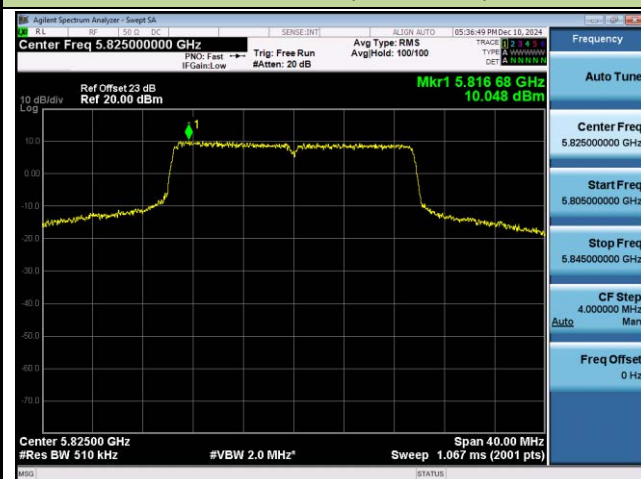
Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)



802.11ax-HE40 Power Spectral Density - Ant 0

Channel 38 (5190MHz)



Channel 46 (5230MHz)



Channel 54 (5270MHz)



Channel 62 (5310MHz)



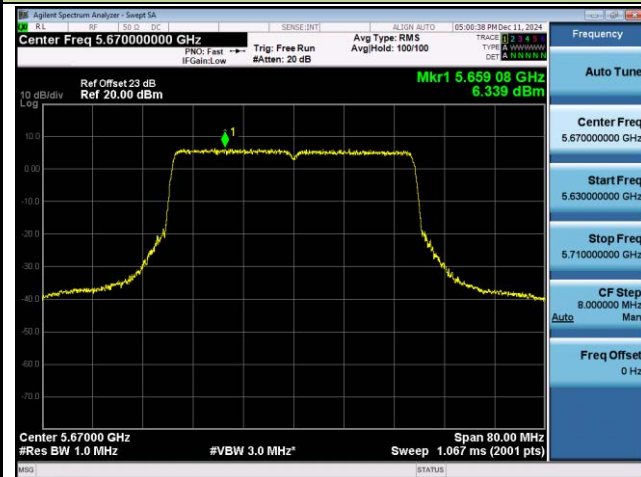
Channel 102 (5510MHz)



Channel 110 (5550MHz)



Channel 134 (5670MHz)



Channel 142 (5710MHz)



Channel 151 (5755MHz)



Channel 159 (5795MHz)



802.11ax-HE80 Power Spectral Density - Ant 0

Channel 42 (5210MHz)



Channel 58 (5290MHz)



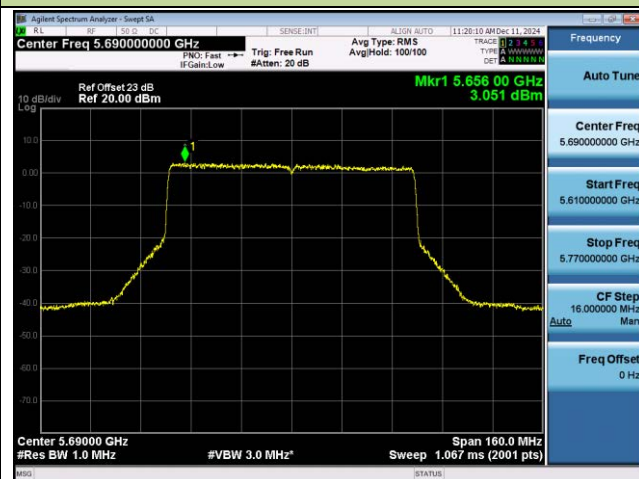
Channel 106 (5530MHz)



Channel 122 (5610MHz)



Channel 138 (5690MHz)

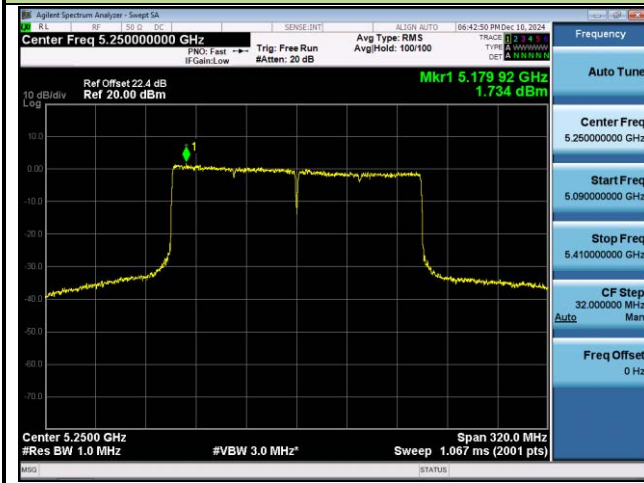


Channel 155 (5775MHz)

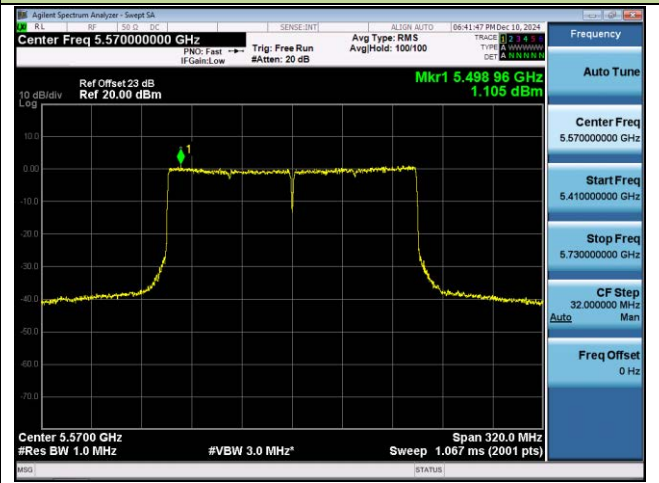


802.11ax-HE160 Power Spectral Density - Ant 0

Channel 50 (5250MHz)

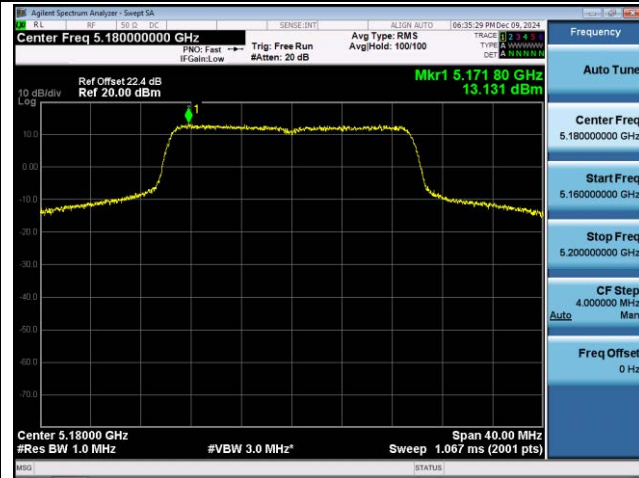


Channel 114 (5570MHz)

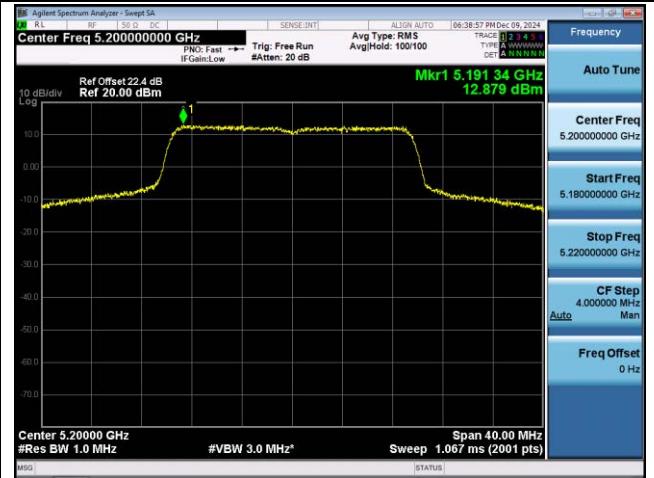


802.11be-EHT20 Power Spectral Density - Ant 0

Channel 36 (5180MHz)



Channel 40 (5200MHz)



Channel 48 (5240MHz)



Channel 52 (5260MHz)

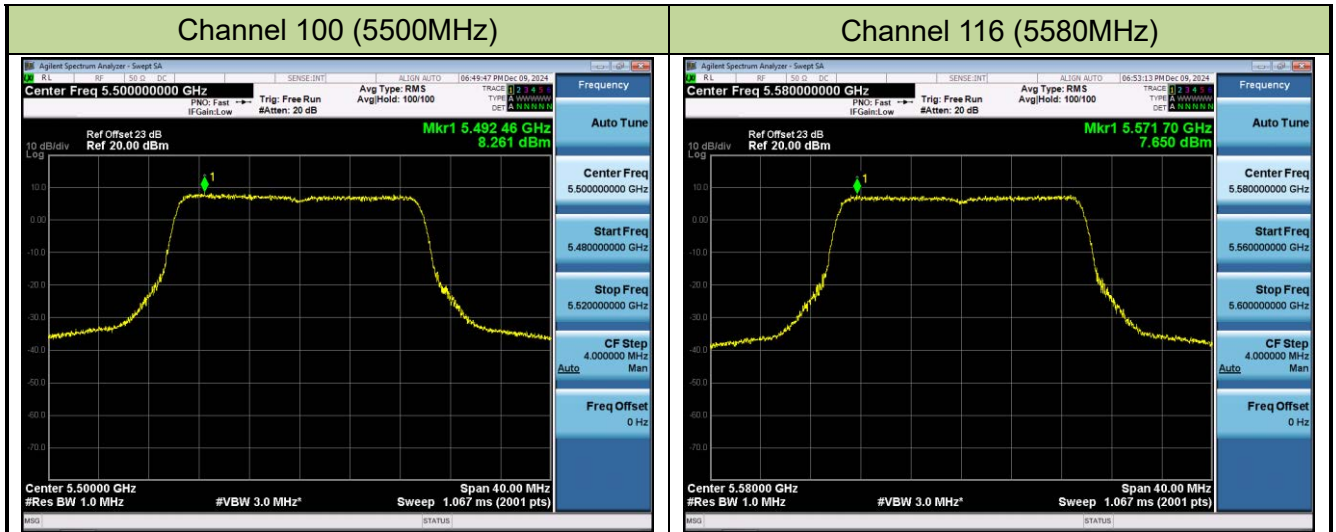


Channel 60 (5300MHz)



Channel 64 (5320MHz)





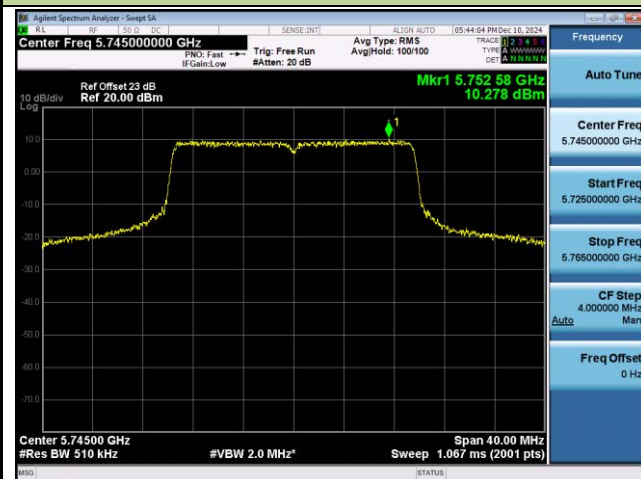
Channel 140 (5700MHz)



Channel 144 (5720MHz)



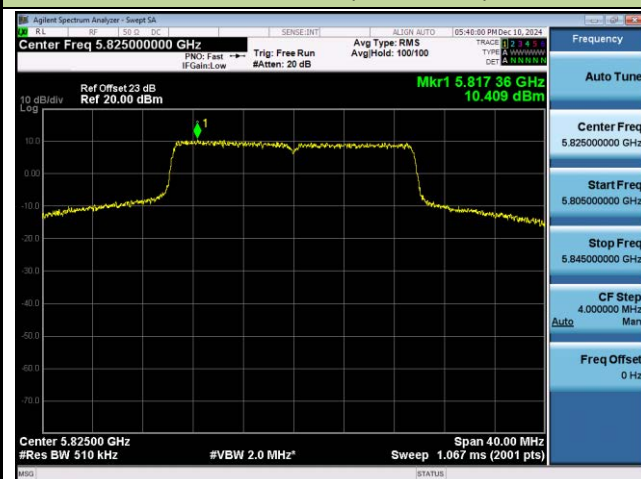
Channel 149 (5745MHz)



Channel 157 (5785MHz)

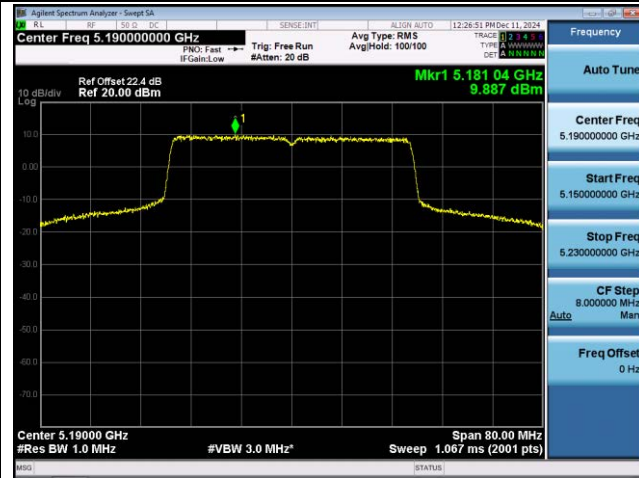


Channel 165 (5825MHz)



802.11be-EHT40 Power Spectral Density - Ant 0

Channel 38 (5190MHz)



Channel 46 (5230MHz)



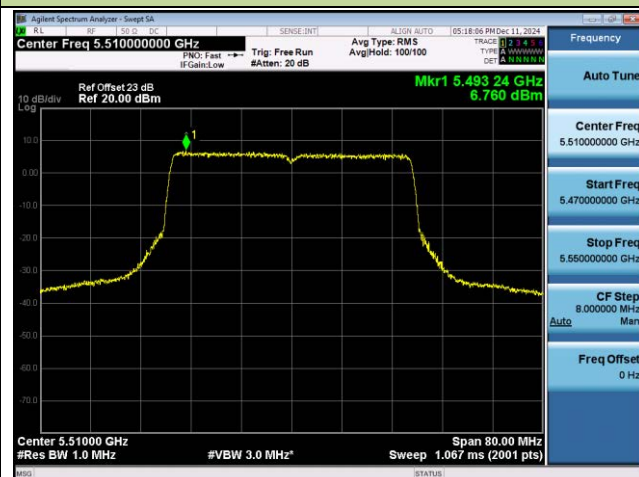
Channel 54 (5270MHz)



Channel 62 (5310MHz)



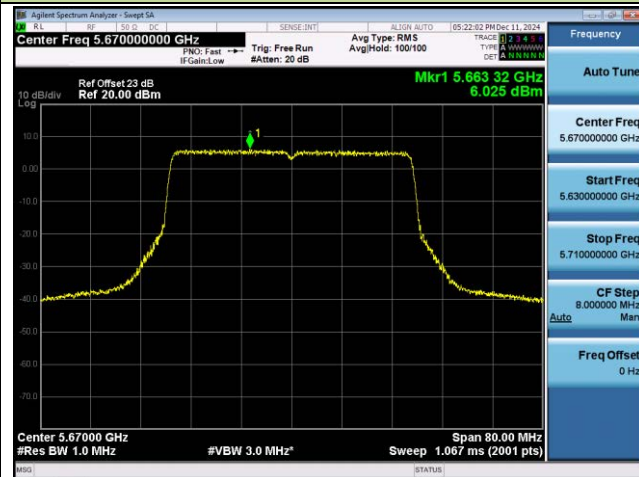
Channel 102 (5510MHz)



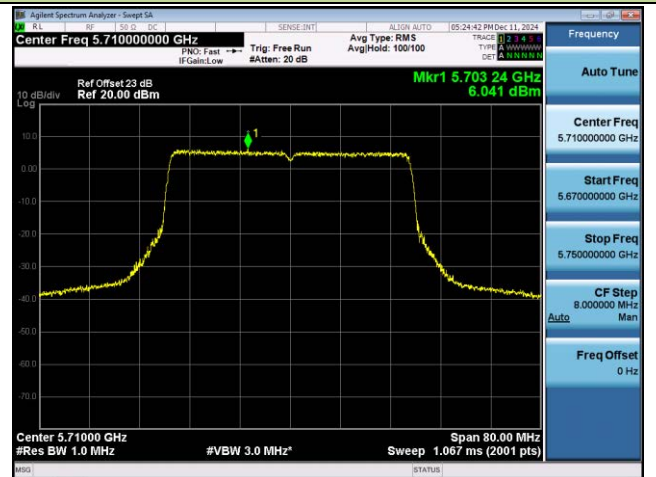
Channel 110 (5550MHz)



Channel 134 (5670MHz)



Channel 142 (5710MHz)



Channel 151 (5755MHz)



Channel 159 (5795MHz)

