

A.4 Power Spectral Density Test Result

Full RU

Test Site	WZ-SR5	Test Engineer	Luis Yang
Test Date	2024-07-09 ~ 2024-07-22		

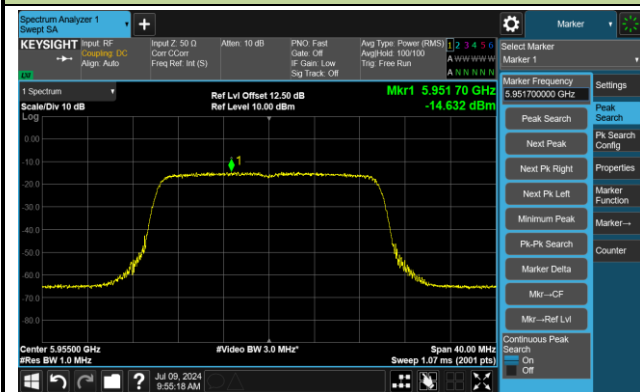
Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 3 PSD (dBm/MHz)	Ant 2 PSD (dBm/MHz)	Duty Cycle (%)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)
802.11ax-HE20	MCS0	1	5955	-14.632	-14.752	99.67	-1.451	≤ -1.00
802.11ax-HE20	MCS0	49	6195	-15.491	-14.317	99.67	-1.624	≤ -1.00
802.11ax-HE20	MCS0	93	6415	-15.864	-13.996	99.67	-1.590	≤ -1.00
802.11ax-HE20	MCS0	97	6435	-12.844	-11.720	99.67	-1.295	≤ -1.00
802.11ax-HE20	MCS0	105	6475	-12.926	-11.897	99.67	-1.431	≤ -1.00
802.11ax-HE20	MCS0	113	6515	-12.602	-12.132	99.67	-1.410	≤ -1.00
802.11ax-HE20	MCS0	117	6535	-13.408	-12.926	99.67	-1.650	≤ -1.00
802.11ax-HE20	MCS0	149	6695	-12.623	-12.783	99.67	-1.192	≤ -1.00
802.11ax-HE20	MCS0	181	6855	-12.591	-12.617	99.67	-1.094	≤ -1.00
802.11ax-HE20	MCS0	185	6875	-12.952	-13.054	99.67	-1.492	≤ -1.00
802.11ax-HE20	MCS0	189	6895	-12.588	-12.894	99.67	-1.768	≤ -1.00
802.11ax-HE20	MCS0	209	6995	-12.674	-11.893	99.67	-1.296	≤ -1.00
802.11ax-HE20	MCS0	233	7115	-14.056	-13.131	99.67	-2.599	≤ -1.00
802.11ax-HE40	MCS0	3	5965	-14.697	-14.859	99.71	-1.537	≤ -1.00
802.11ax-HE40	MCS0	51	6205	-15.366	-14.652	99.71	-1.754	≤ -1.00
802.11ax-HE40	MCS0	91	6405	-15.109	-14.419	99.71	-1.510	≤ -1.00
802.11ax-HE40	MCS0	99	6445	-13.443	-12.415	99.71	-1.948	≤ -1.00
802.11ax-HE40	MCS0	107	6485	-13.259	-12.089	99.71	-1.684	≤ -1.00
802.11ax-HE40	MCS0	115	6525	-13.093	-12.564	99.71	-1.870	≤ -1.00
802.11ax-HE40	MCS0	123	6565	-13.094	-12.329	99.71	-1.184	≤ -1.00
802.11ax-HE40	MCS0	147	6685	-12.947	-12.680	99.71	-1.301	≤ -1.00
802.11ax-HE40	MCS0	179	6845	-12.977	-13.861	99.71	-1.886	≤ -1.00
802.11ax-HE40	MCS0	187	6885	-12.691	-13.708	99.71	-1.659	≤ -1.00
802.11ax-HE40	MCS0	195	6925	-12.098	-12.933	99.71	-1.525	≤ -1.00
802.11ax-HE40	MCS0	211	7005	-13.147	-12.227	99.71	-1.692	≤ -1.00
802.11ax-HE40	MCS0	227	7085	-12.648	-12.627	99.71	-1.667	≤ -1.00

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	Ant 3 PSD (dBm/MHz)	Ant 2 PSD (dBm/MHz)	Duty Cycle (%)	EIRP PSD (dBm/MHz)	Limit (dBm/MHz)
802.11ax-HE80	MCS0	7	5985	-15.101	-14.931	99.67	-1.775	≤ -1.00
802.11ax-HE80	MCS0	55	6225	-15.141	-13.884	99.67	-1.227	≤ -1.00
802.11ax-HE80	MCS0	87	6385	-15.127	-13.787	99.67	-1.165	≤ -1.00
802.11ax-HE80	MCS0	103	6465	-12.657	-12.822	99.67	-1.788	≤ -1.00
802.11ax-HE80	MCS0	119	6545	-12.585	-14.216	99.67	-1.814	≤ -1.00
802.11ax-HE80	MCS0	135	6625	-12.186	-14.011	99.67	-1.493	≤ -1.00
802.11ax-HE80	MCS0	151	6705	-12.513	-13.889	99.67	-1.636	≤ -1.00
802.11ax-HE80	MCS0	167	6785	-12.454	-14.263	99.67	-1.755	≤ -1.00
802.11ax-HE80	MCS0	183	6865	-12.114	-15.096	99.67	-1.844	≤ -1.00
802.11ax-HE80	MCS0	199	6945	-10.884	-13.817	99.67	-1.137	≤ -1.00
802.11ax-HE80	MCS0	215	7025	-11.949	-13.353	99.67	-1.624	≤ -1.00
802.11ax-HE160	MCS0	15	6025	-14.362	-15.540	99.74	-1.671	≤ -1.00
802.11ax-HE160	MCS0	47	6185	-14.542	-15.602	99.74	-1.799	≤ -1.00
802.11ax-HE160	MCS0	79	6345	-15.453	-14.850	99.74	-1.901	≤ -1.00
802.11ax-HE160	MCS0	111	6505	-12.527	-13.381	99.74	-1.423	≤ -1.00
802.11ax-HE160	MCS0	143	6665	-12.532	-14.580	99.74	-1.926	≤ -1.00
802.11ax-HE160	MCS0	175	6825	-11.961	-14.608	99.74	-1.576	≤ -1.00
802.11ax-HE160	MCS0	207	6985	-12.072	-13.389	99.74	-1.710	≤ -1.00

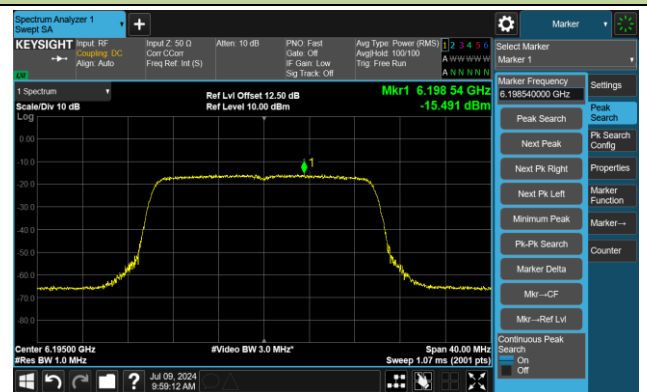
Note: When EUT duty cycle ≥ 98%, EIRP PSD (dBm/MHz) = $10 \cdot \log \{10^{(\text{Ant 3 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)}\}$ (dBm/MHz) + Directional Gain for PSD (dBi).

802.11ax-HE20 Power Spectral Density - Ant 3

Channel 1 (5955MHz)



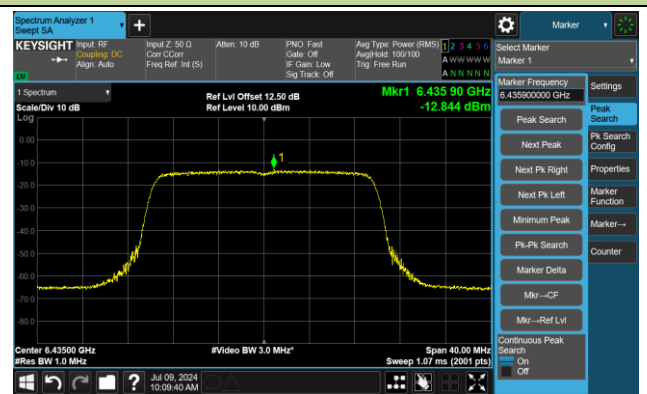
Channel 49 (6195MHz)



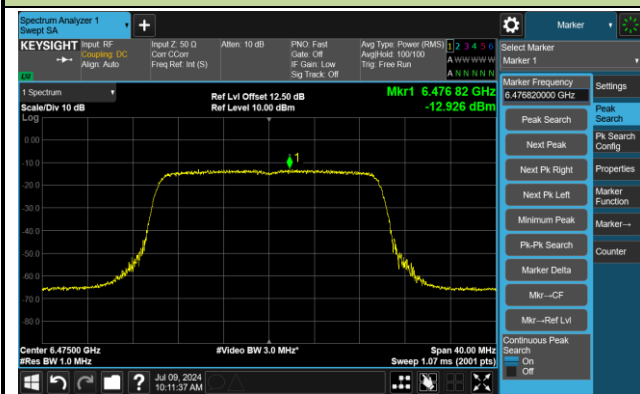
Channel 93 (6415MHz)



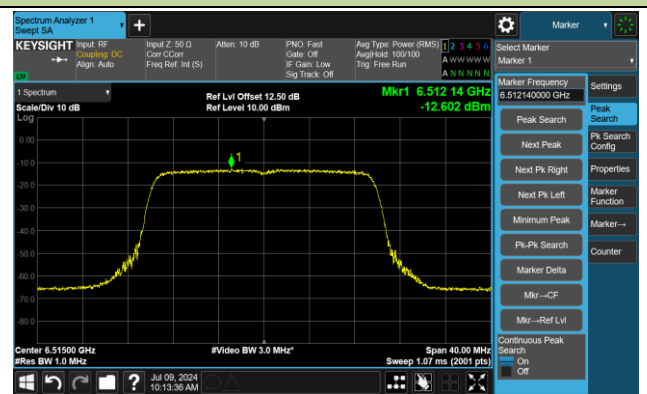
Channel 97 (6435MHz)



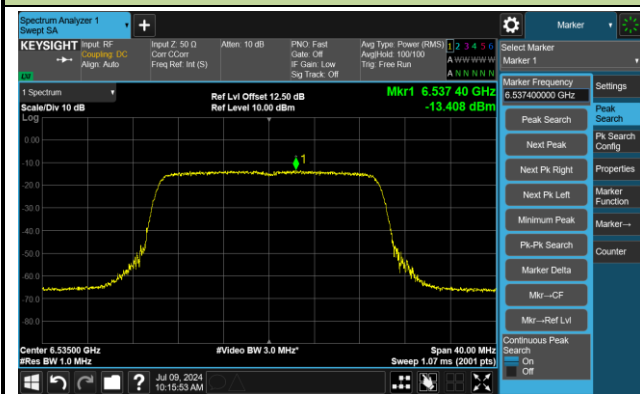
Channel 105 (6475MHz)



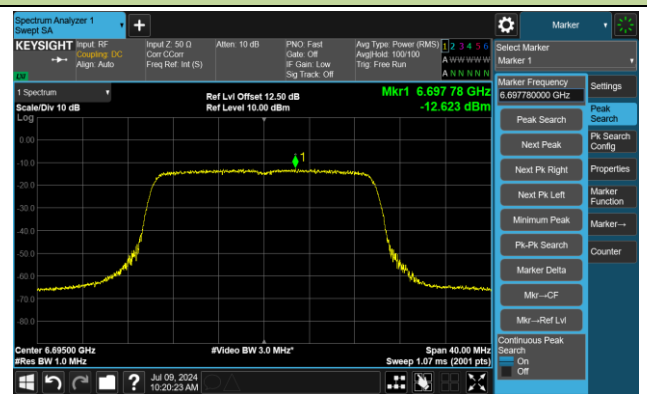
Channel 113 (6515MHz)



Channel 117 (6535MHz)

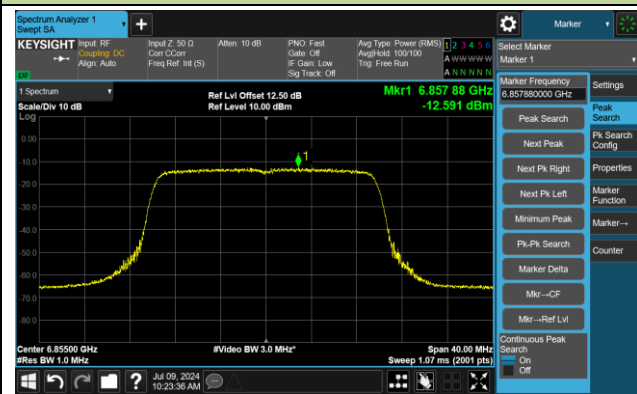


Channel 149 (6695MHz)

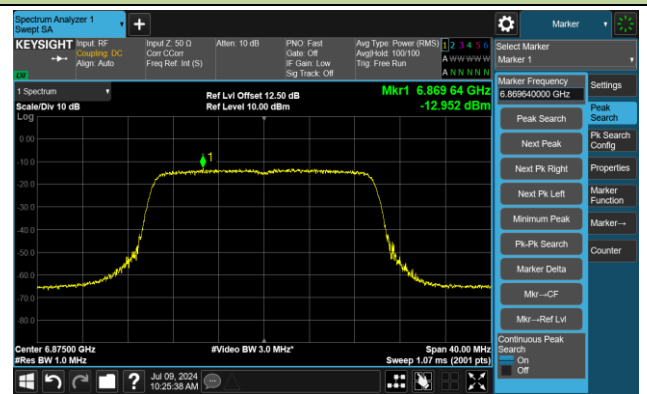


802.11ax-HE20 Power Spectral Density - Ant 3

Channel 181 (6855MHz)



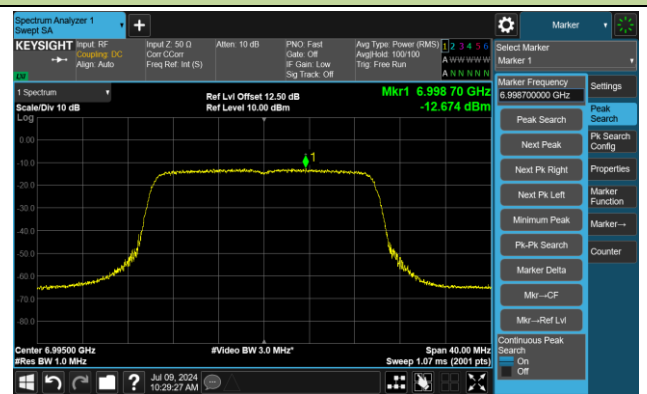
Channel 185 (6875MHz)



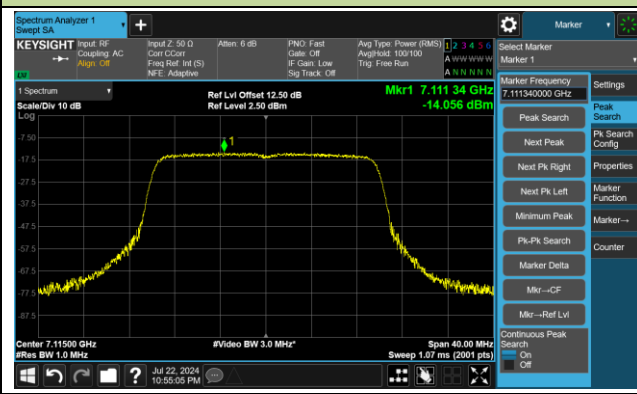
Channel 189 (6895MHz)



Channel 209 (6995MHz)

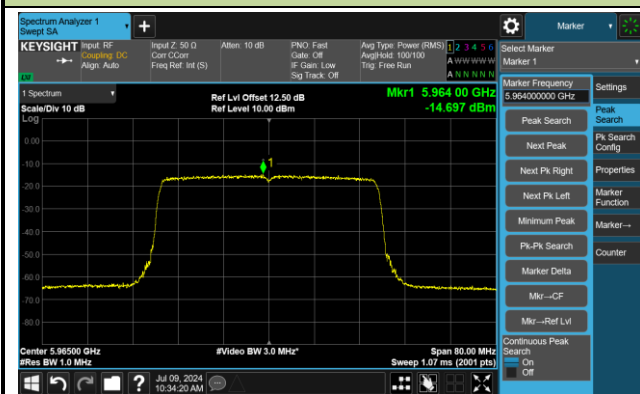


Channel 233 (7115MHz)

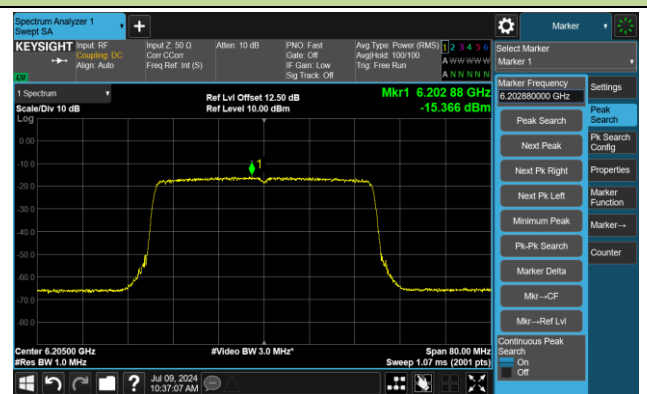


802.11ax-HE40 Power Spectral Density - Ant 3

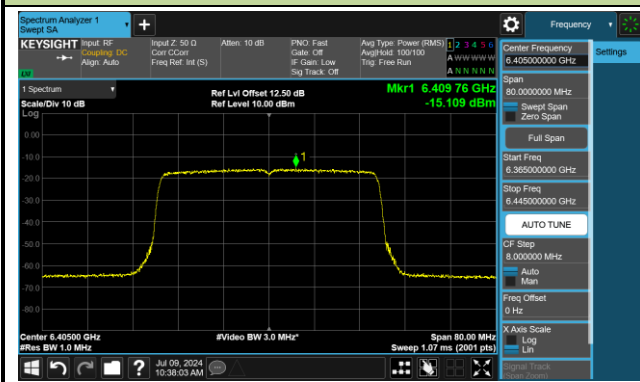
Channel 3 (5965MHz)



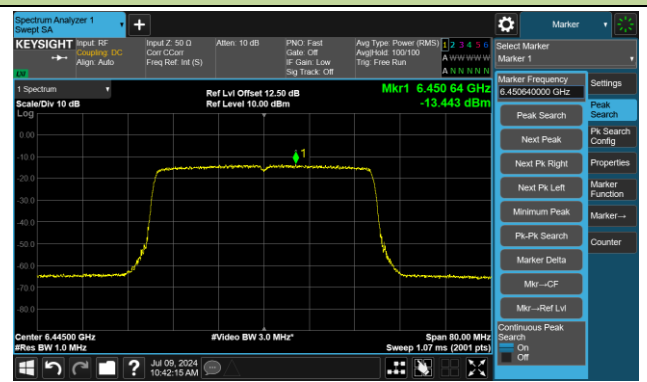
Channel 51 (6205MHz)



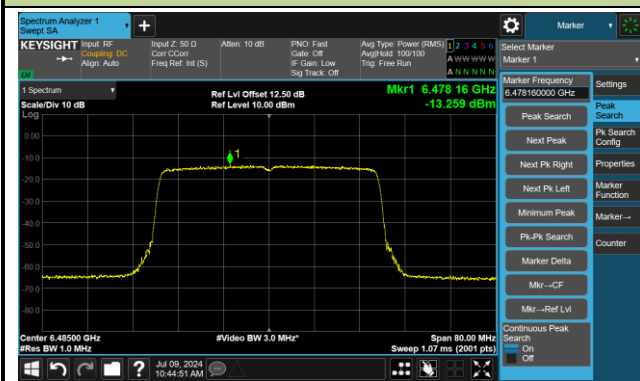
Channel 91 (6405MHz)



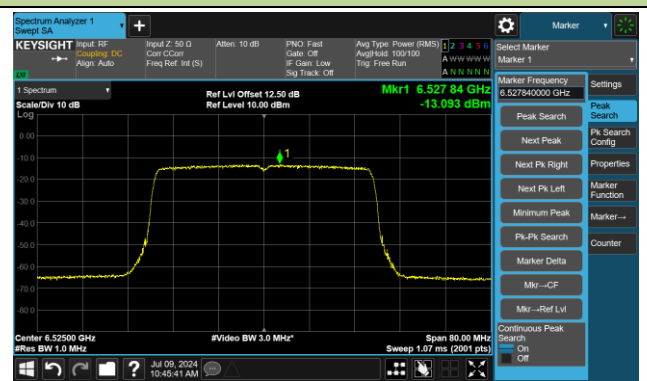
Channel 99 (6445MHz)



Channel 107 (6485MHz)



Channel 115 (6525MHz)



Channel 123 (6565MHz)

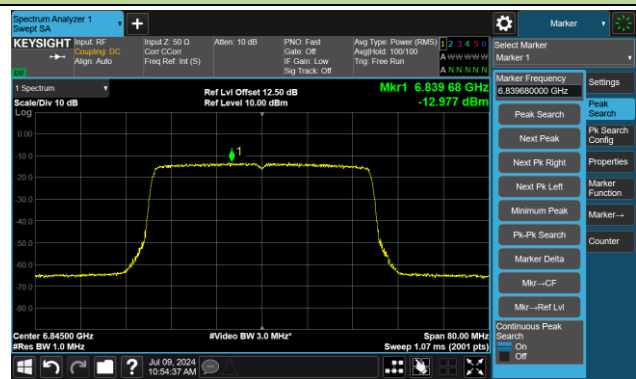


Channel 147 (6685MHz)

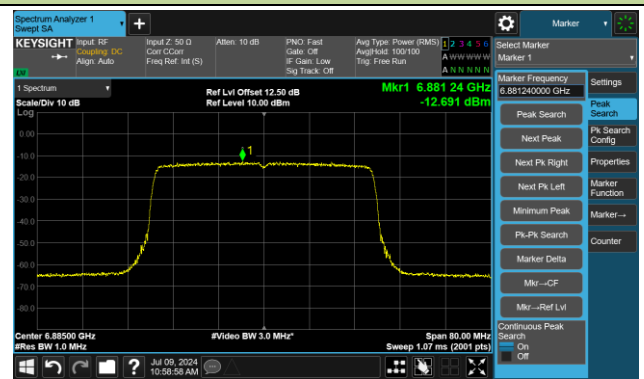


802.11ax-HE40 Power Spectral Density - Ant 3

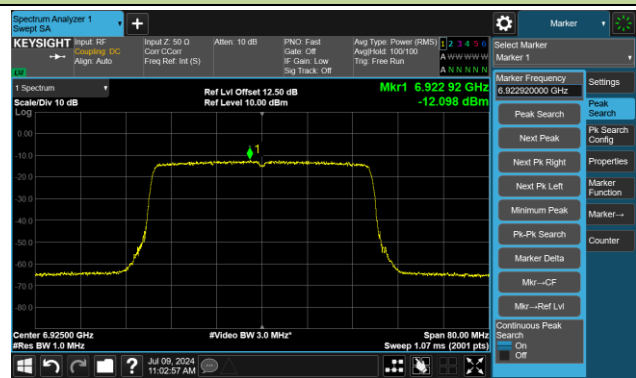
Channel 179 (6845MHz)



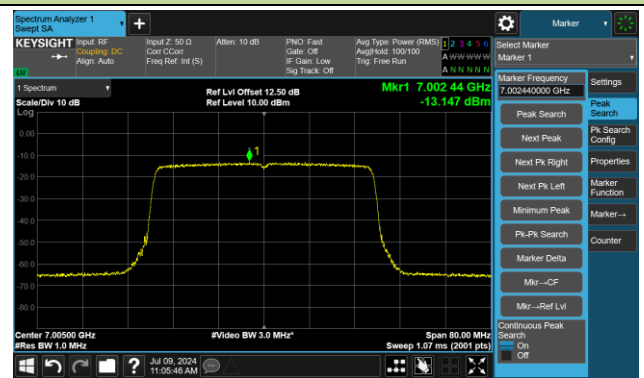
Channel 187 (6885MHz)



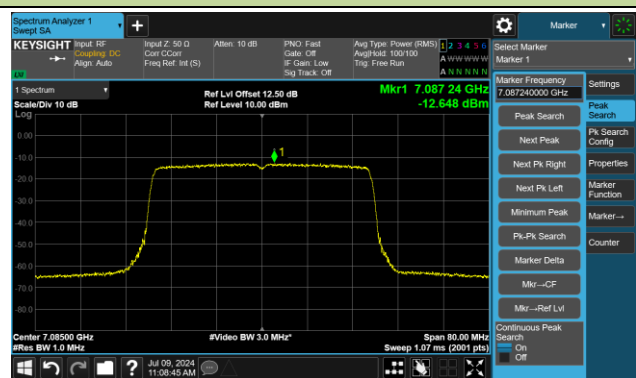
Channel 195 (6925MHz)



Channel 211 (7005MHz)

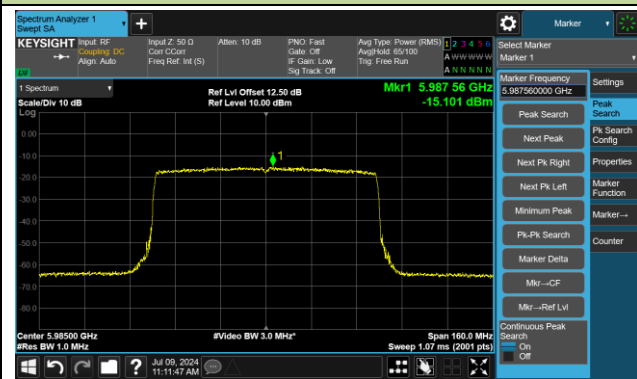


Channel 227 (7085MHz)

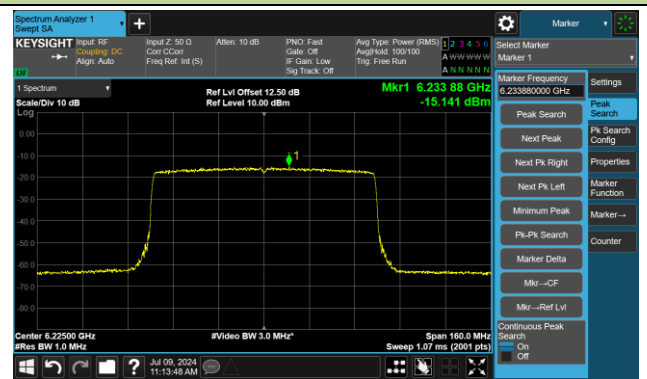


802.11ax-HE80 Power Spectral Density - Ant 3

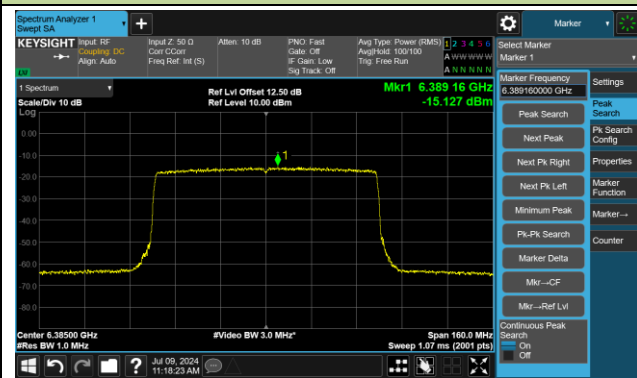
Channel 7 (5985MHz)



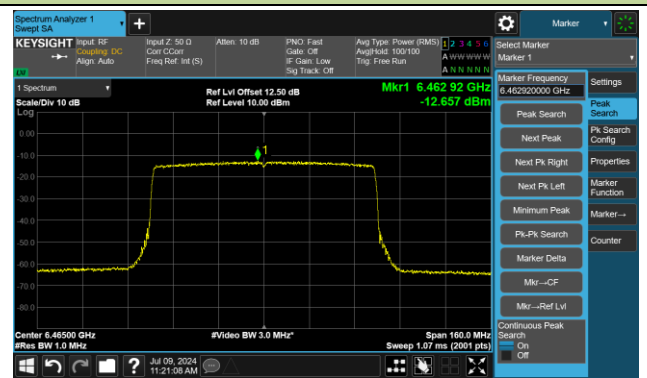
Channel 55 (6225MHz)



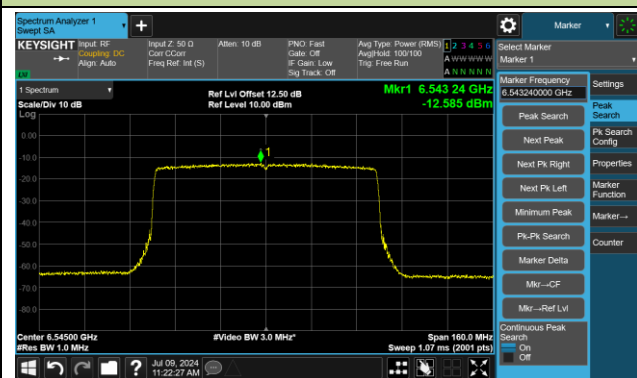
Channel 87 (6385MHz)



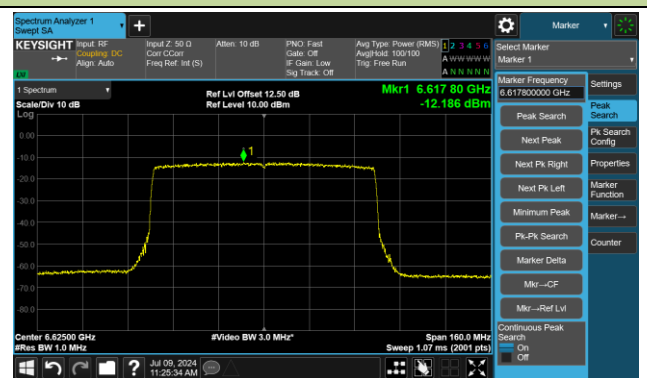
Channel 103 (6465MHz)



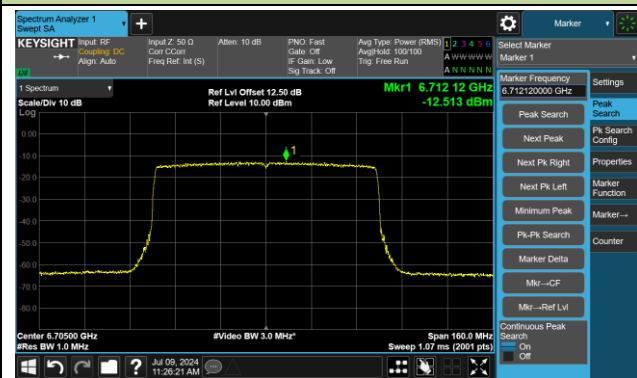
Channel 119 (6545MHz)



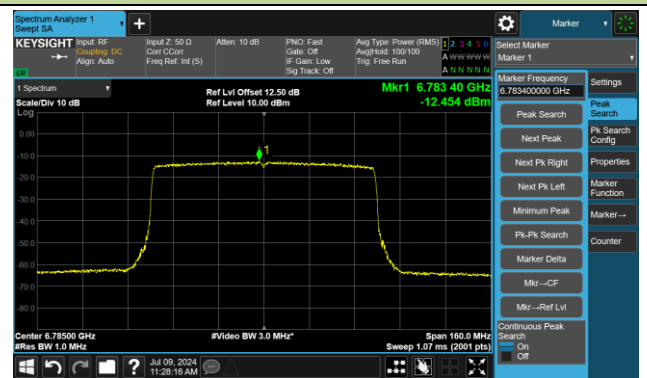
Channel 135 (6625MHz)



Channel 151 (6705MHz)

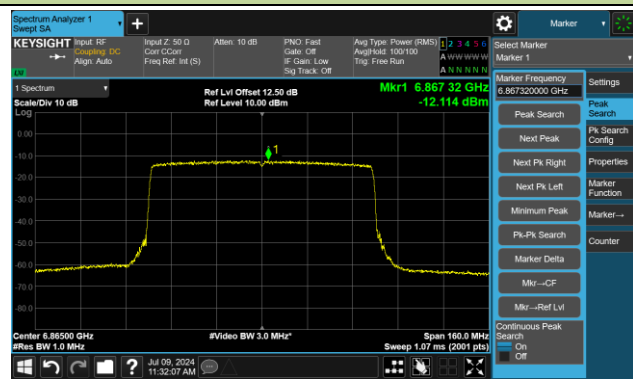


Channel 167 (6785MHz)

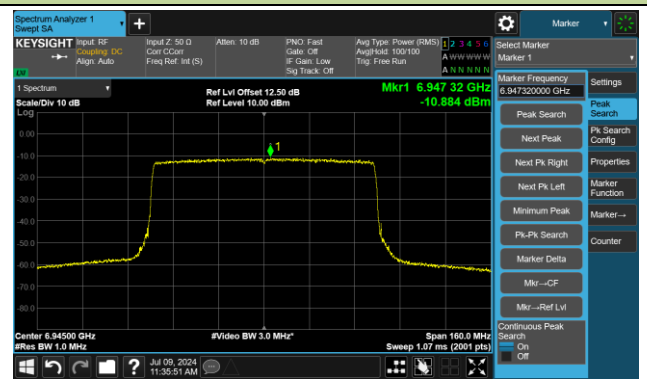


802.11ax-HE80 Power Spectral Density - Ant 3

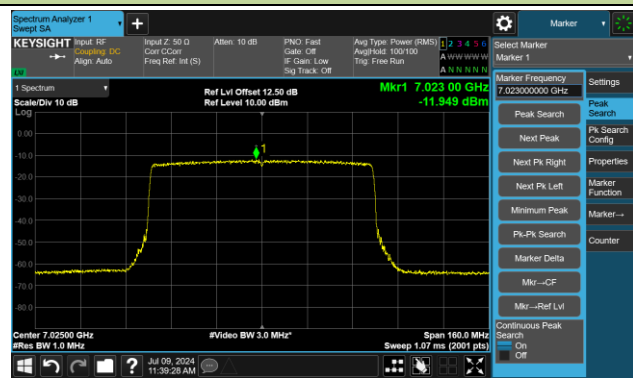
Channel 183 (6865MHz)



Channel 199 (6945MHz)

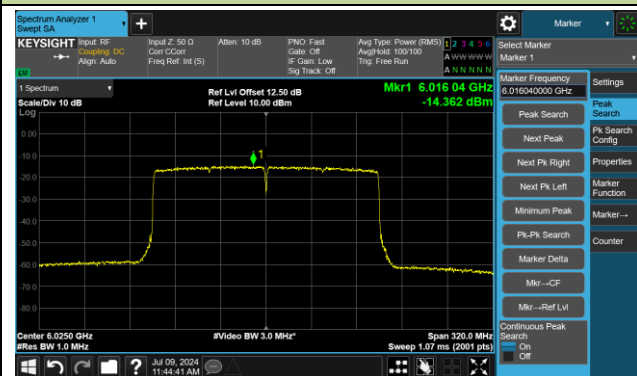


Channel 215 (7025MHz)

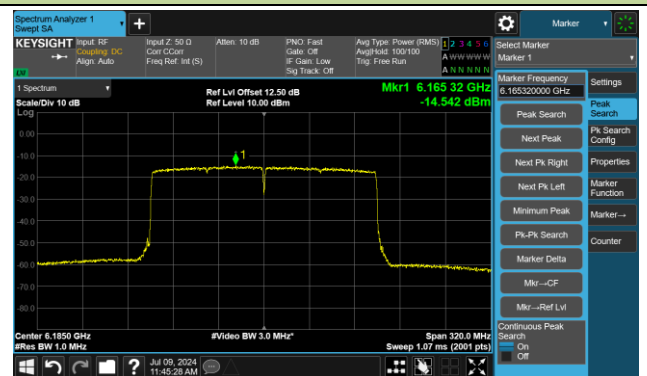


802.11ax-HE160 Power Spectral Density - Ant 3

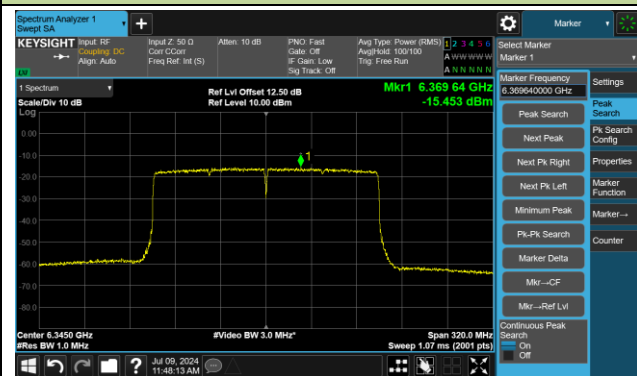
Channel 15 (6025MHz)



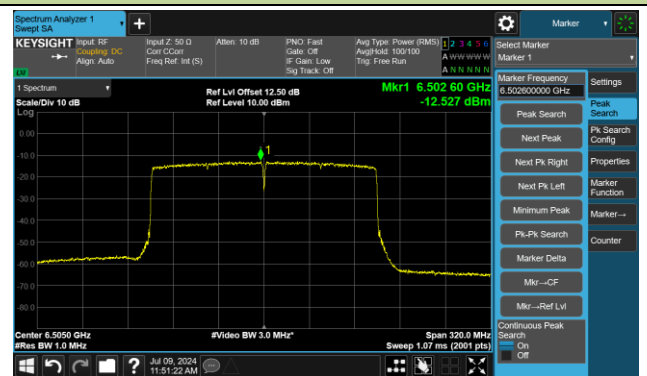
Channel 47 (6185MHz)



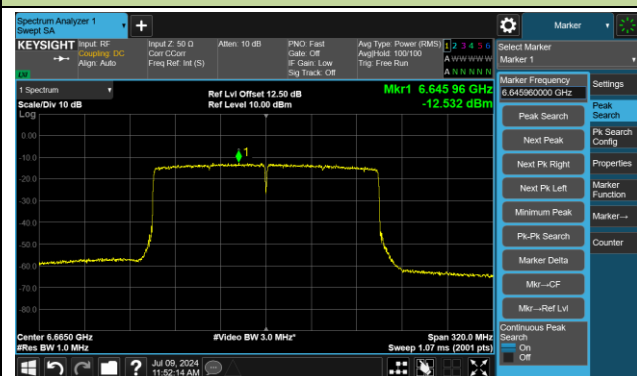
Channel 79 (6345MHz)



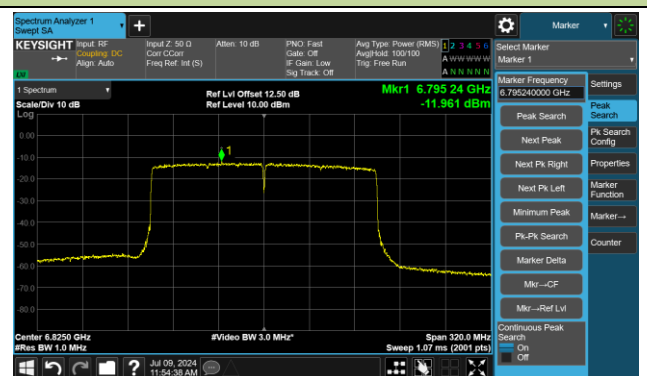
Channel 111 (6505MHz)



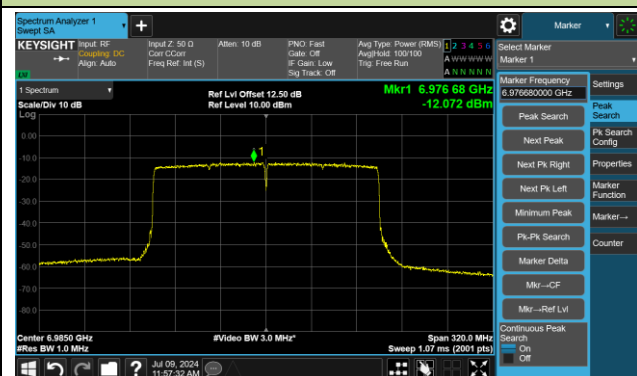
Channel 143 (6665MHz)



Channel 175 (6825MHz)

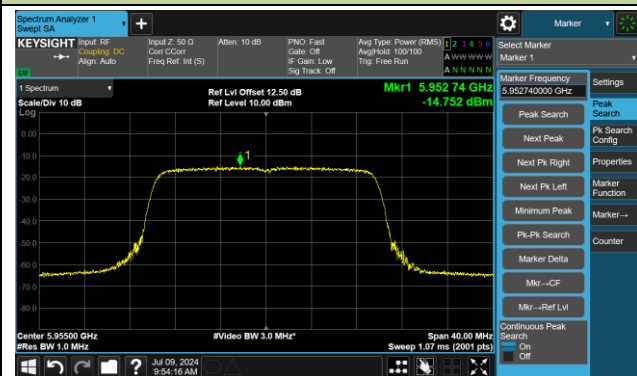


Channel 207 (6985MHz)

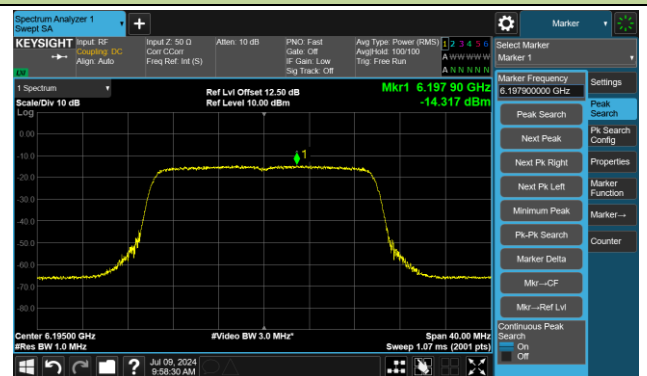


802.11ax-HE20 Power Spectral Density - Ant 2

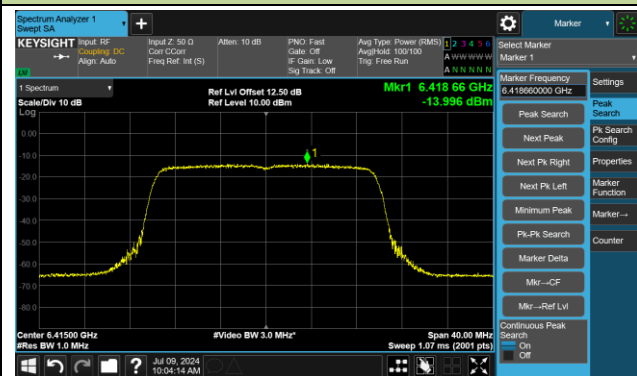
Channel 1 (5955MHz)



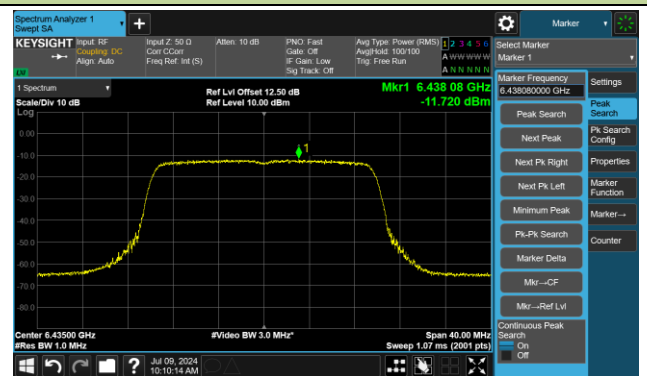
Channel 49 (6195MHz)



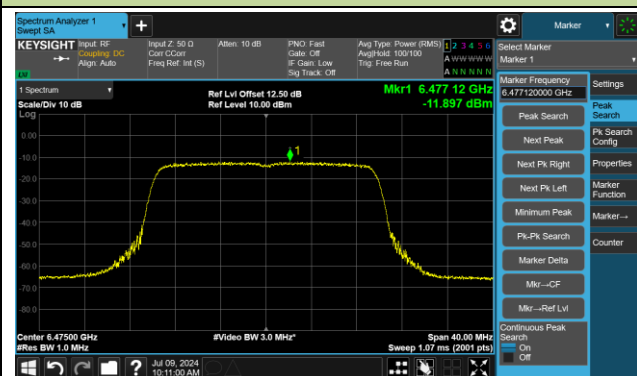
Channel 93 (6415MHz)



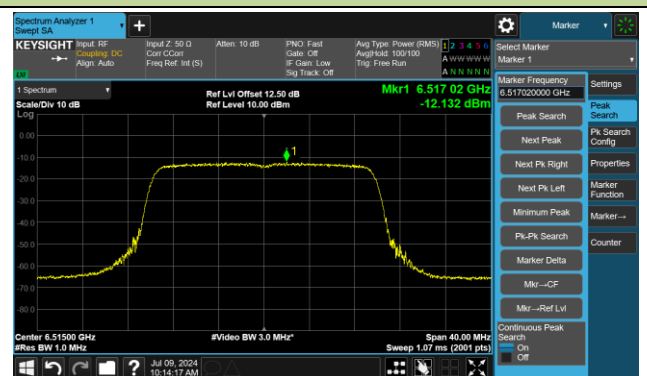
Channel 97 (6435MHz)



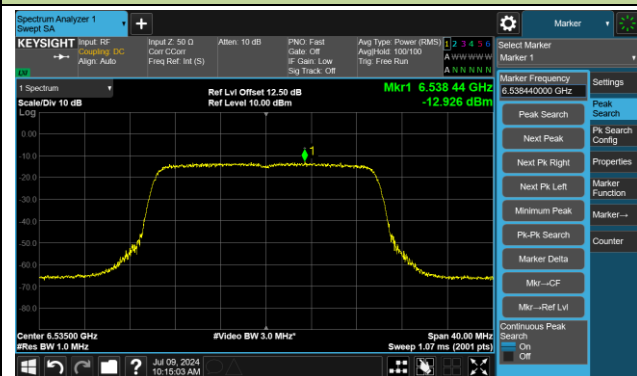
Channel 105 (6475MHz)



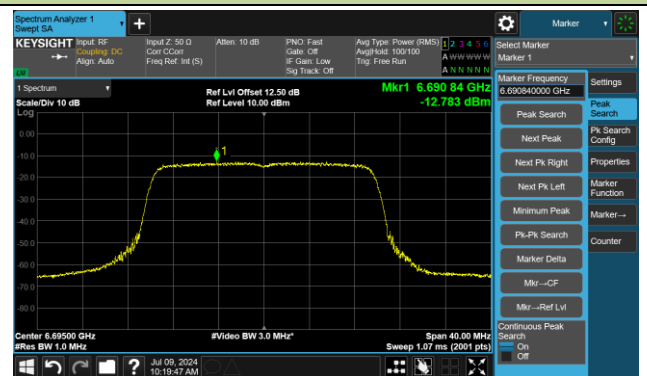
Channel 113 (6515MHz)



Channel 117 (6535MHz)



Channel 149 (6695MHz)

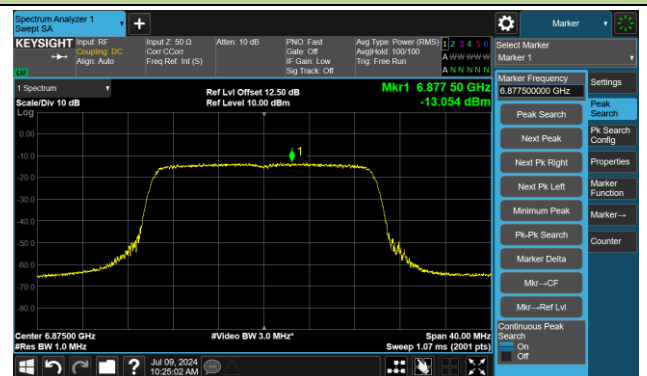


802.11ax-HE20 Power Spectral Density - Ant 2

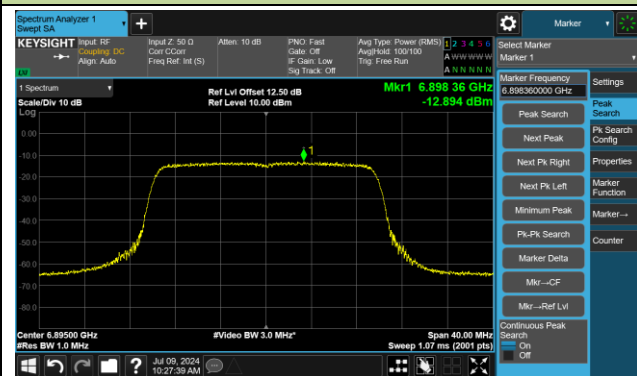
Channel 181 (6855MHz)



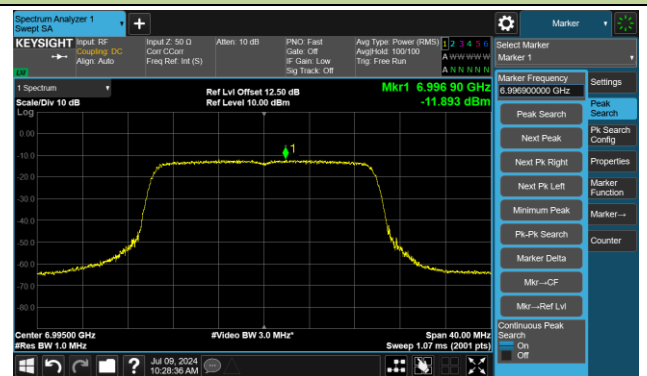
Channel 185 (6875MHz)



Channel 189 (6895MHz)



Channel 209 (6995MHz)

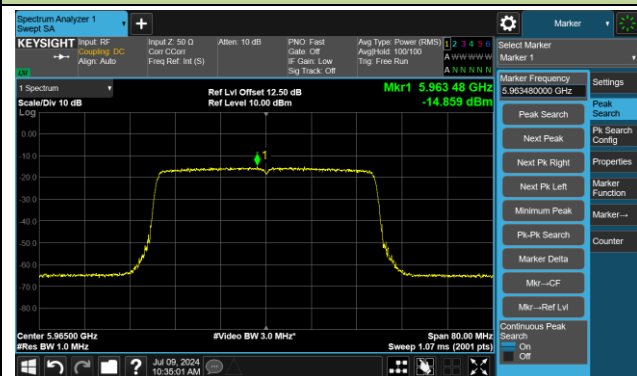


Channel 233 (7115MHz)

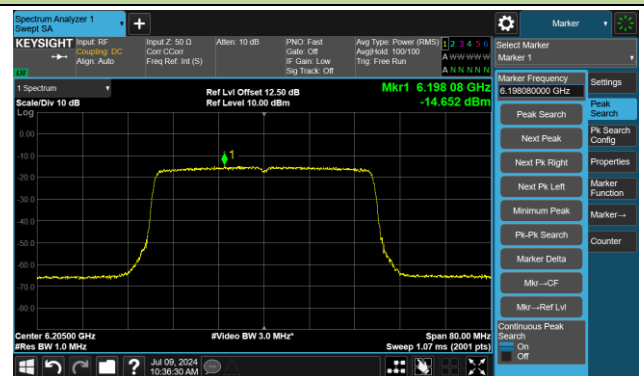


802.11ax-HE40 Power Spectral Density - Ant 2

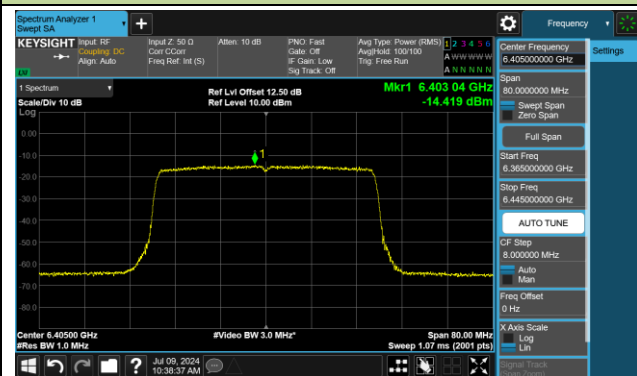
Channel 3 (5965MHz)



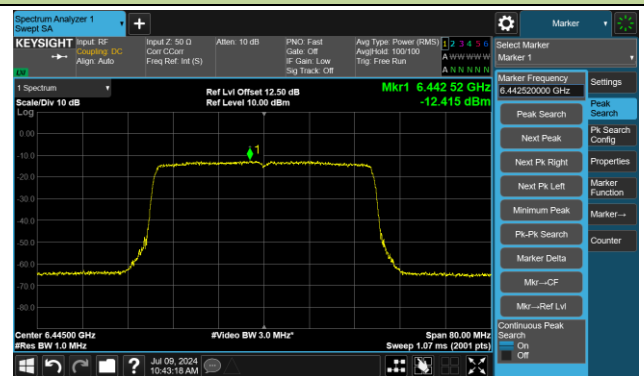
Channel 51 (6205MHz)



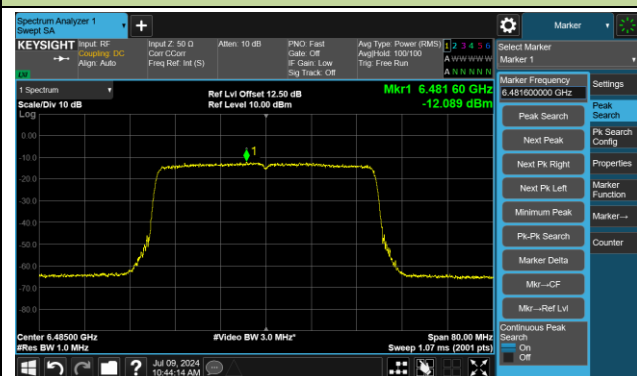
Channel 91 (6405MHz)



Channel 99 (6445MHz)



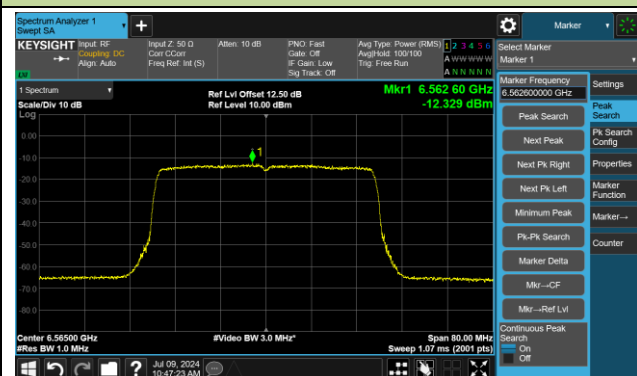
Channel 107 (6485MHz)



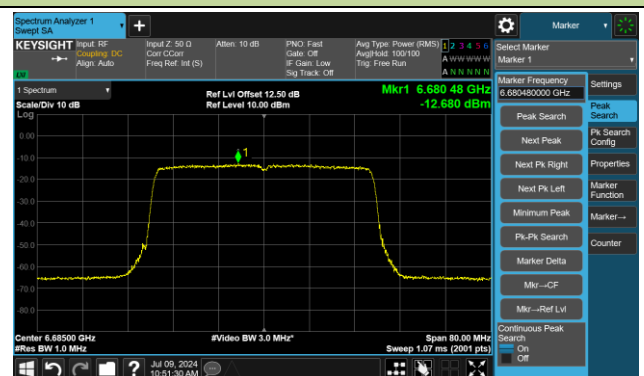
Channel 115 (6525MHz)



Channel 123 (6565MHz)

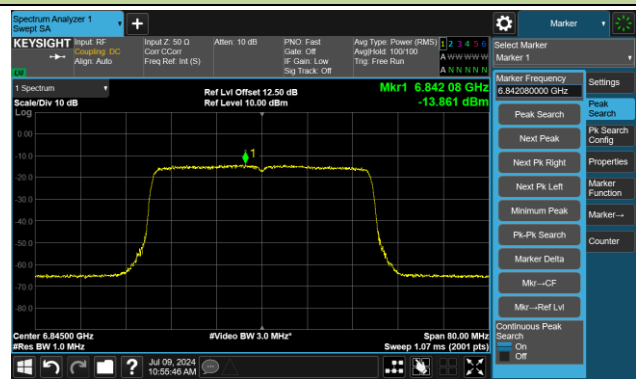


Channel 147 (6685MHz)

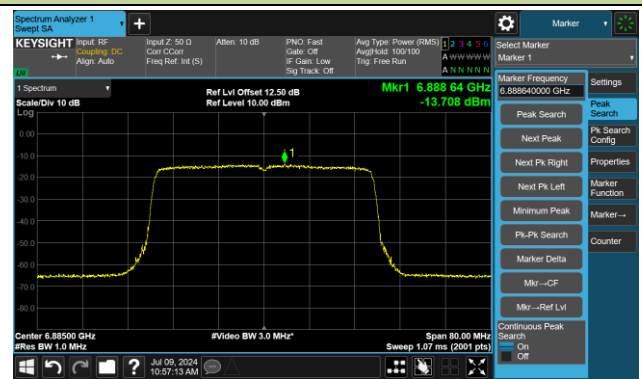


802.11ax-HE40 Power Spectral Density - Ant 2

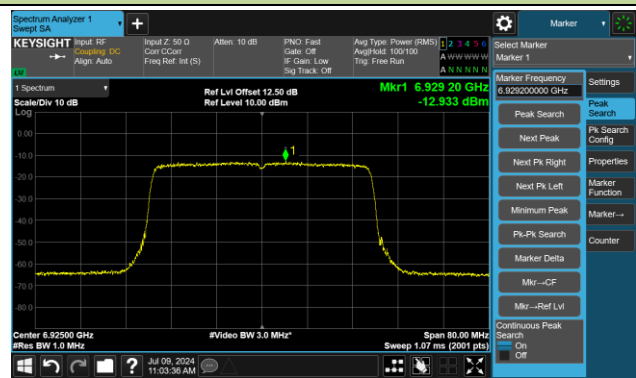
Channel 179 (6845MHz)



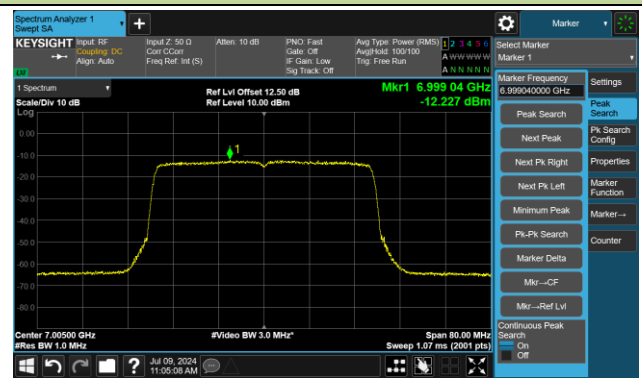
Channel 187 (6885MHz)



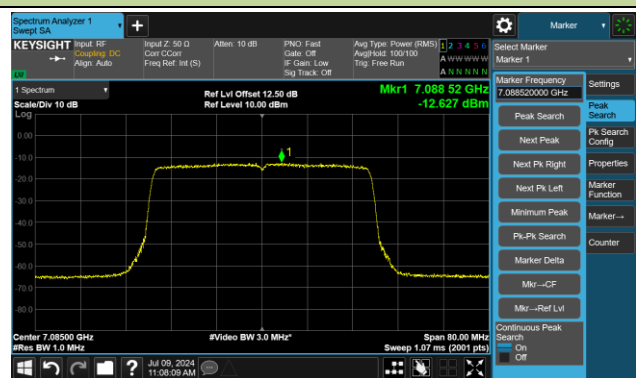
Channel 195 (6925MHz)



Channel 211 (7005MHz)

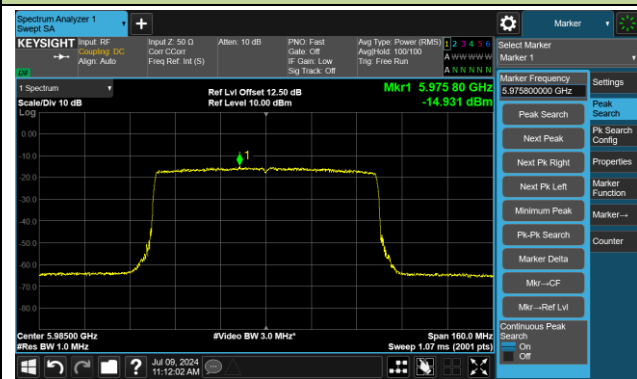


Channel 227 (7085MHz)

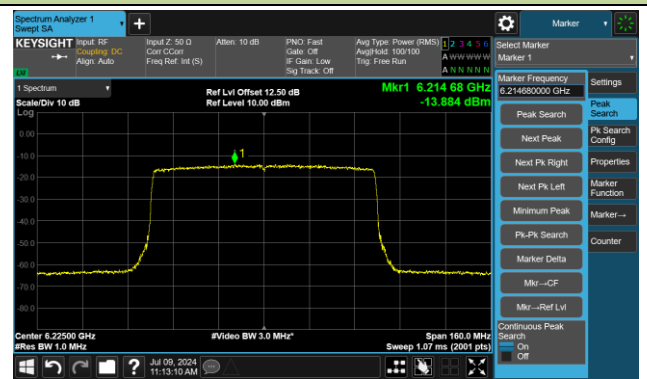


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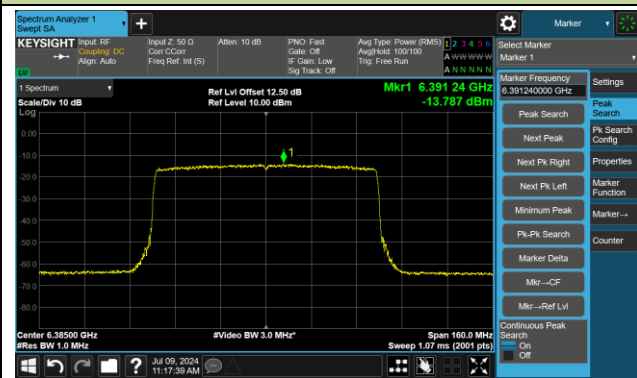
Channel 7 (5985MHz)



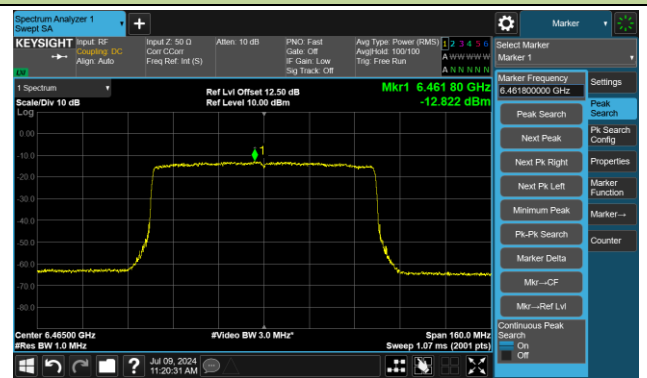
Channel 55 (6225MHz)



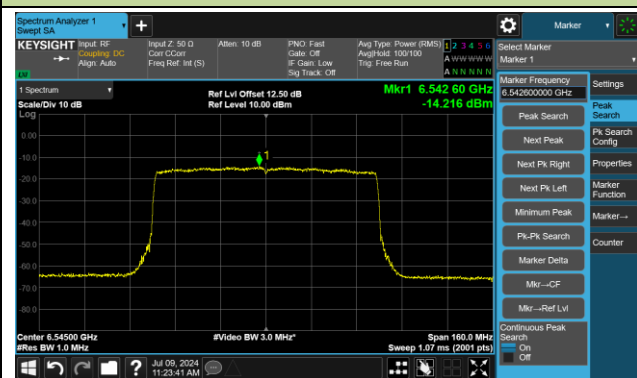
Channel 87 (6385MHz)



Channel 103 (6465MHz)



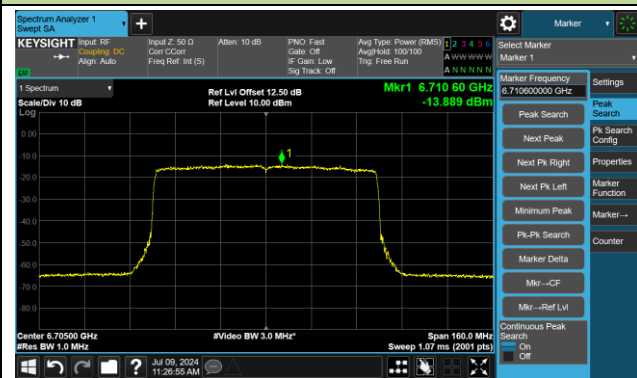
Channel 119 (6545MHz)



Channel 135 (6625MHz)



Channel 151 (6705MHz)

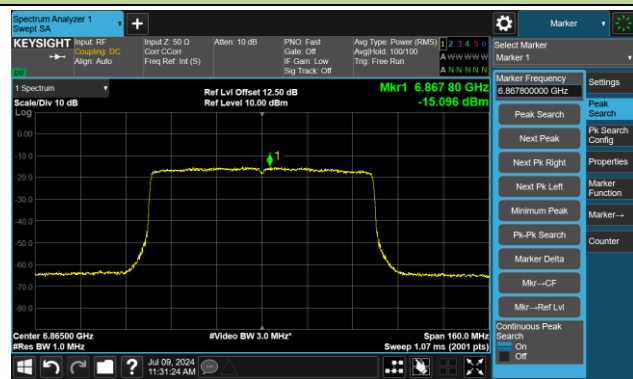


Channel 167 (6785MHz)

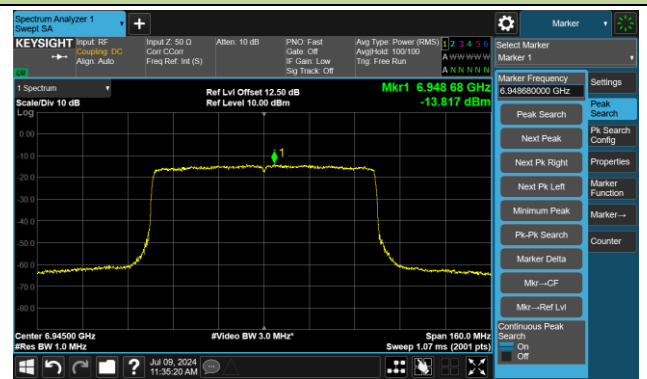


802.11ax-HE80 Power Spectral Density - Ant 2

Channel 183 (6865MHz)



Channel 199 (6945MHz)



Channel 215 (7025MHz)

