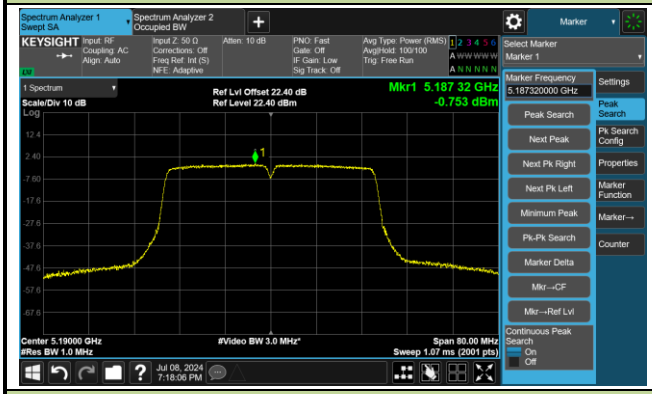
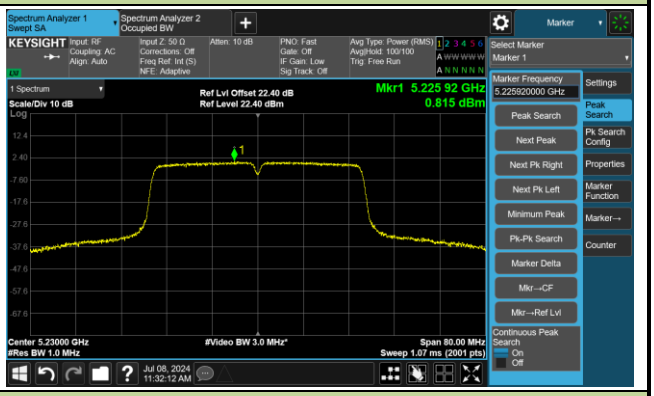
802.11ac-VHT40 Power Spectral Density - Ant 2

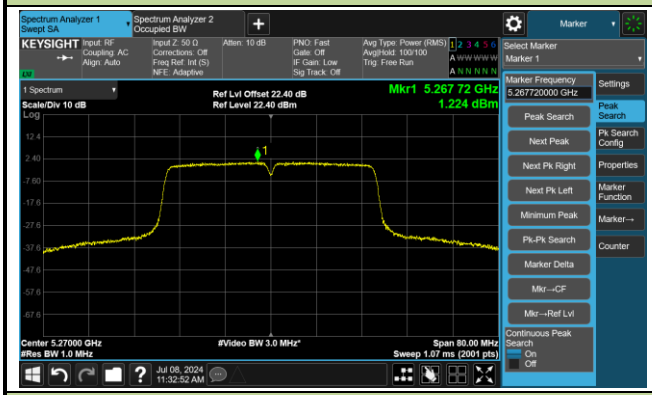
Channel 38 (5190MHz)



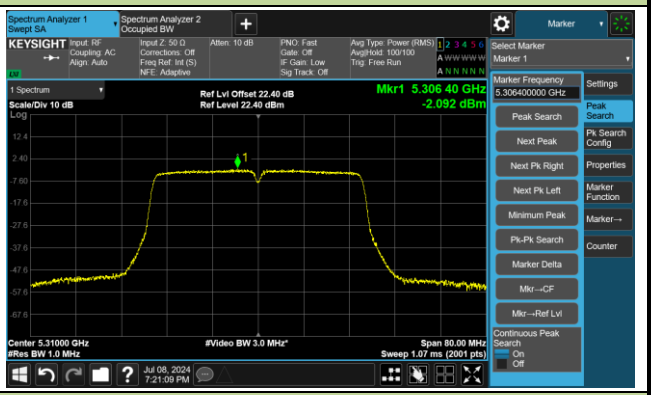
Channel 46 (5230MHz)



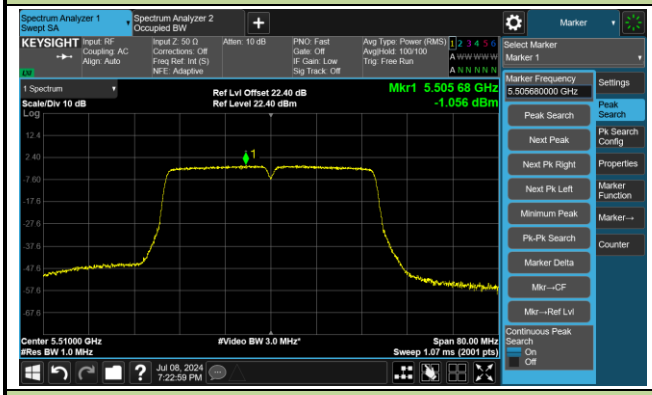
Channel 54 (5270MHz)



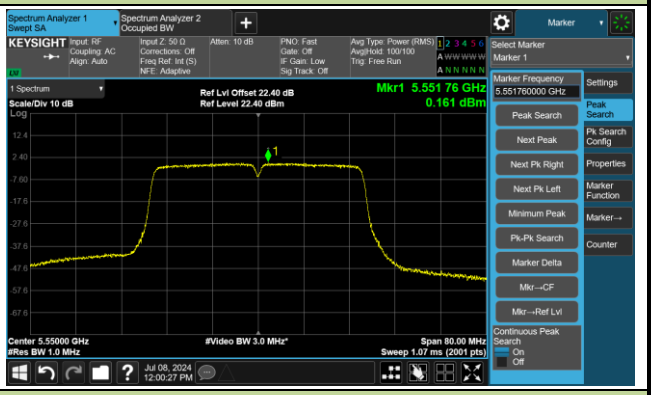
Channel 62 (5310MHz)



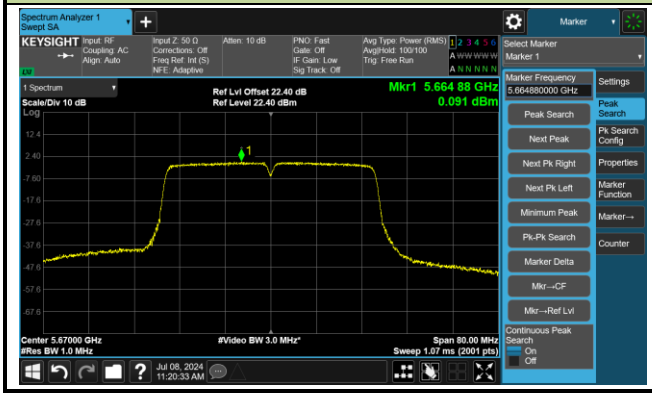
Channel 102 (5510MHz)



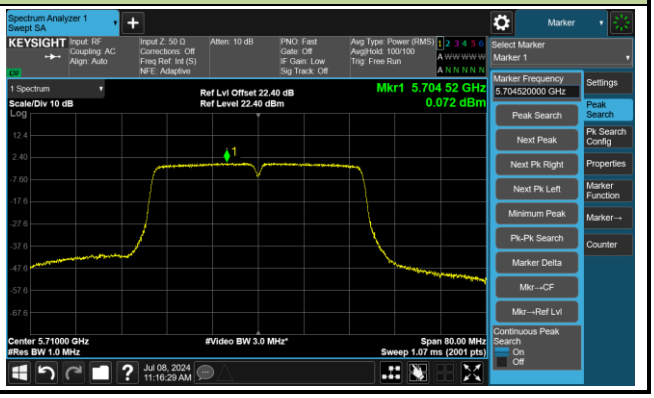
Channel 110 (5550MHz)

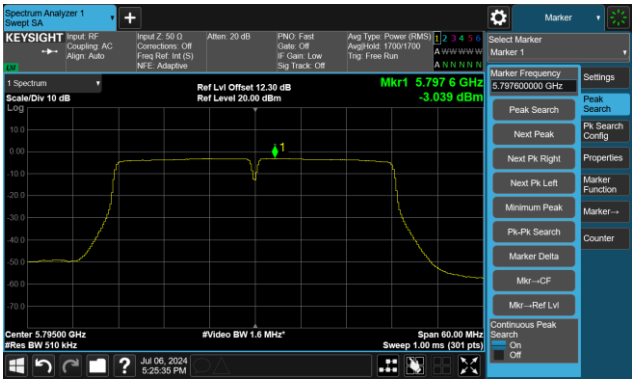


Channel 134 (5670MHz)



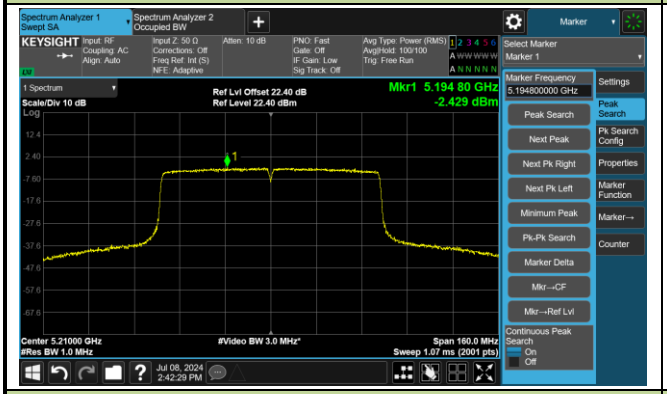
Channel 142(5710MHz)



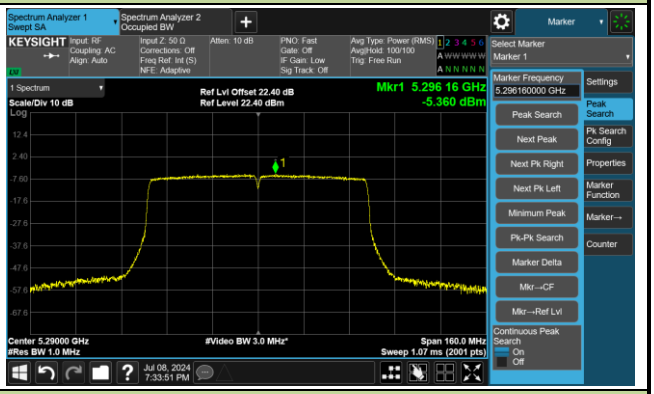
802.11ac-VHT40 Power Spectral Density - Ant 2	
Channel 151 (5755MHz)	Channel 159 (5795MHz)
	

802.11ac-VHT80 Power Spectral Density - Ant 2

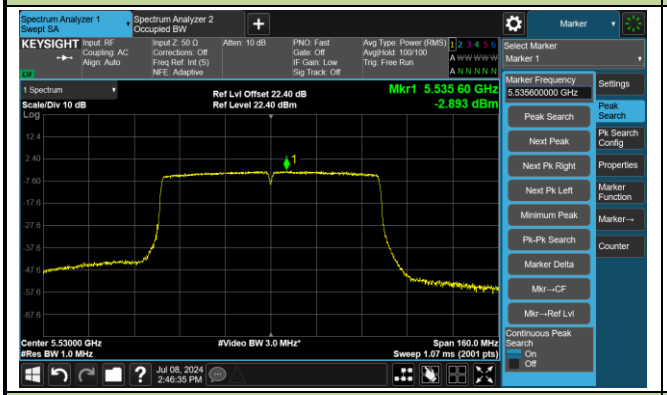
Channel 42 (5210MHz)



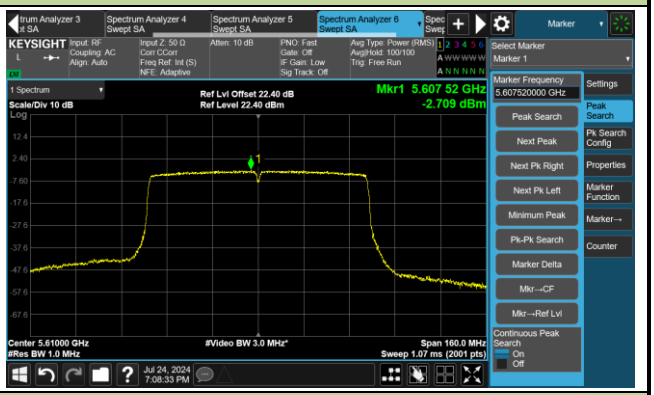
Channel 58 (5290MHz)



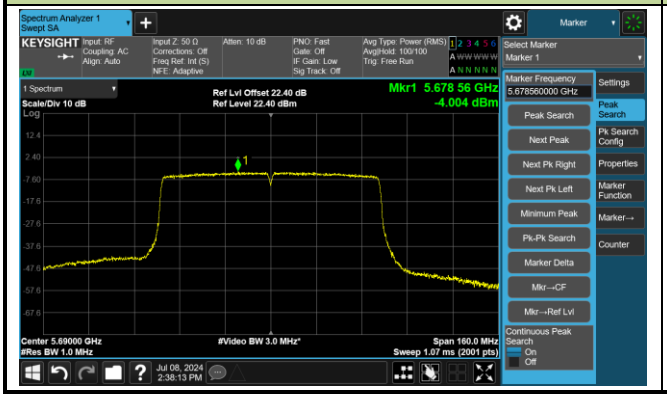
Channel 106 (5530MHz)



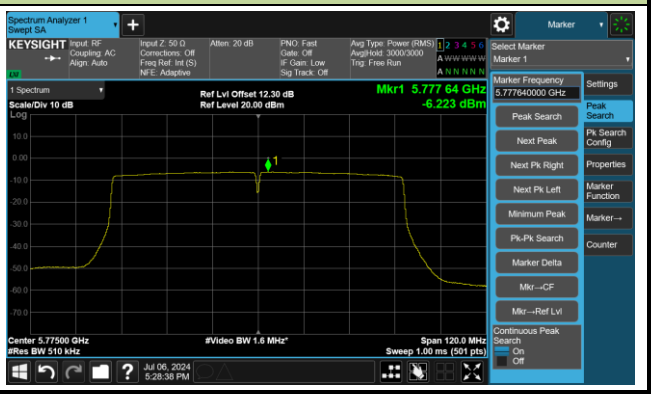
Channel 122 (5610MHz)



Channel 138 (5690MHz)

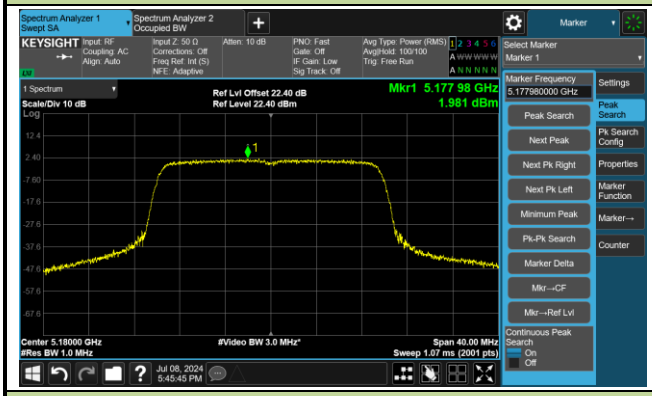


Channel 155 (5775MHz)

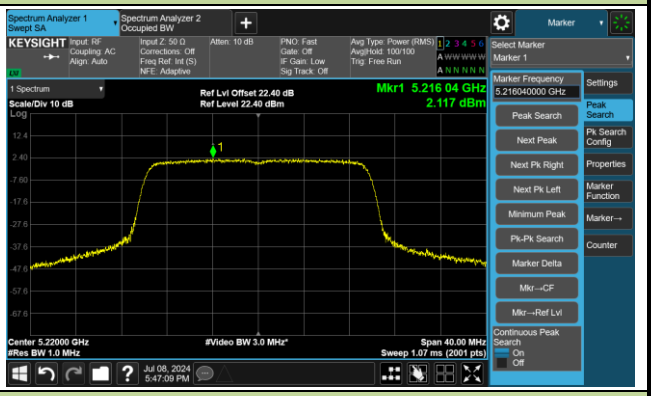


802.11ax-HE20 Power Spectral Density - Ant 2

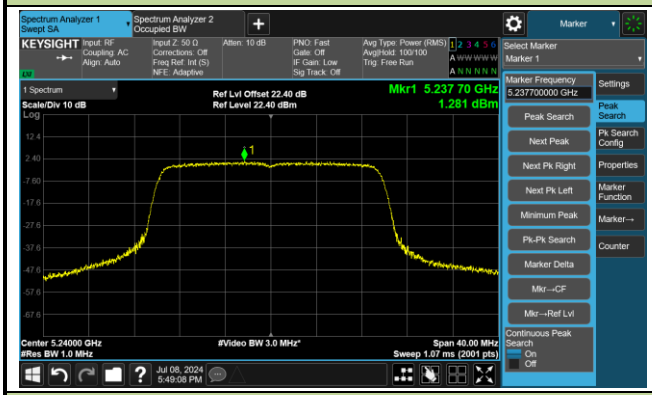
Channel 36 (5180MHz)



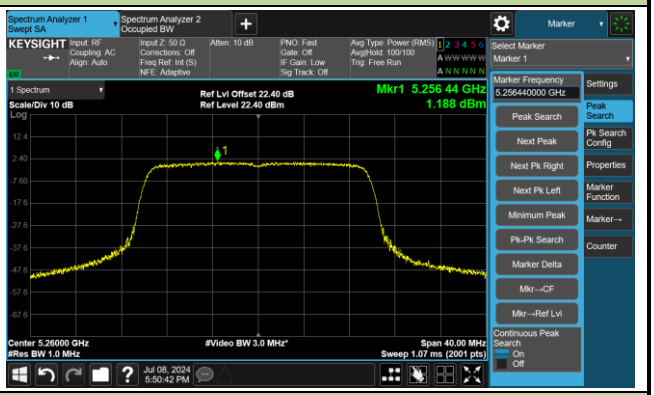
Channel 44 (5220MHz)



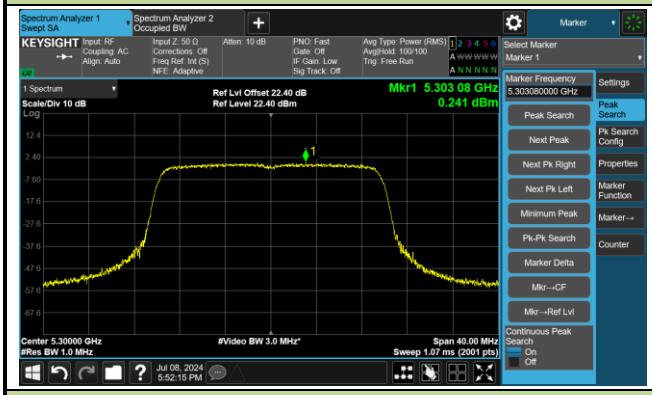
Channel 48 (5240MHz)



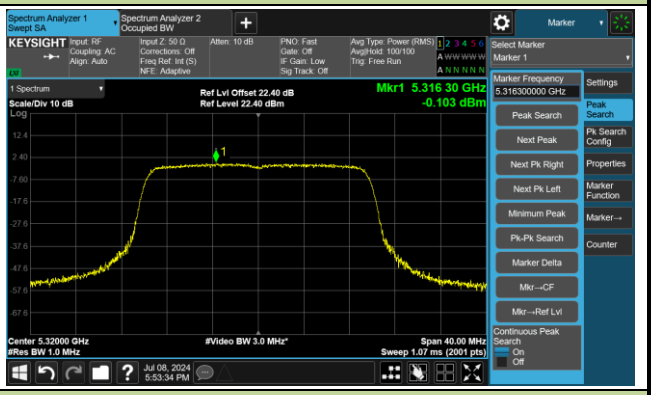
Channel 52 (5260MHz)



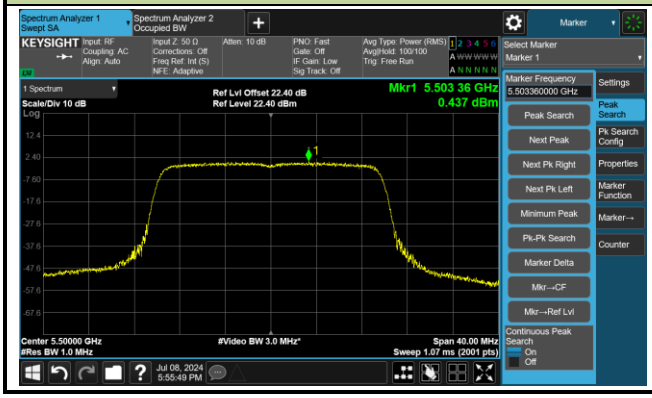
Channel 60 (5300MHz)



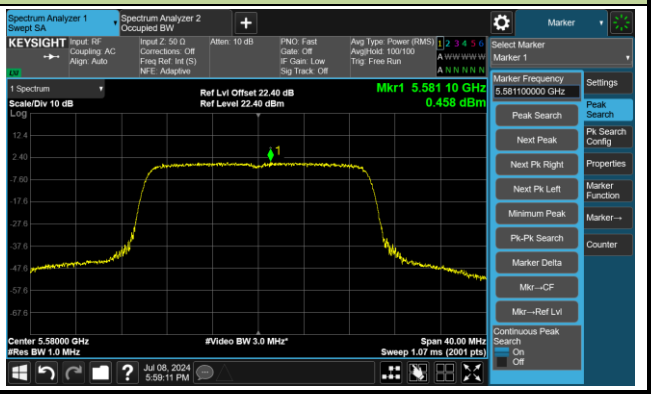
Channel 64 (5320MHz)

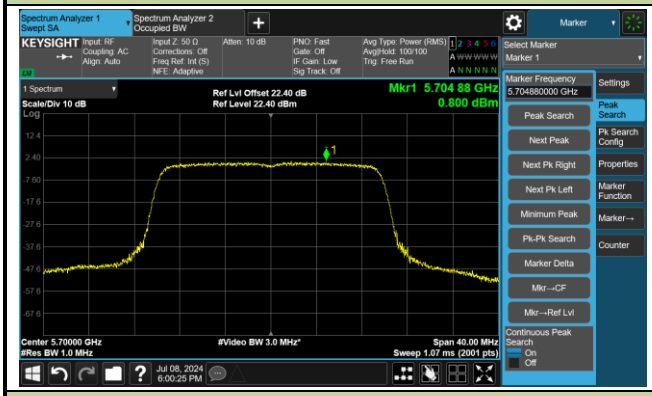
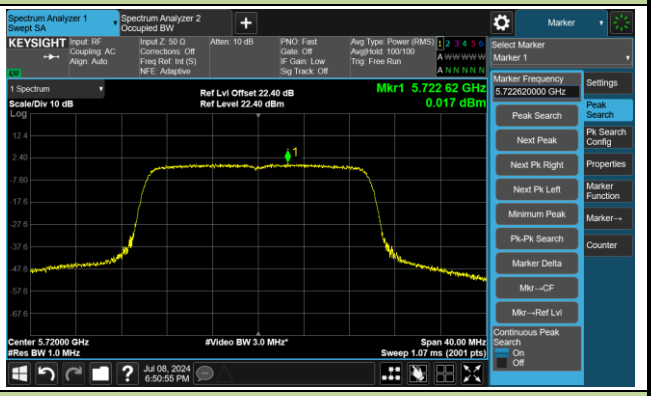
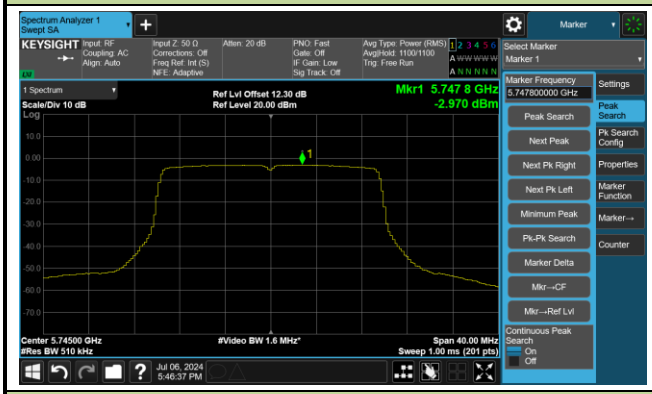
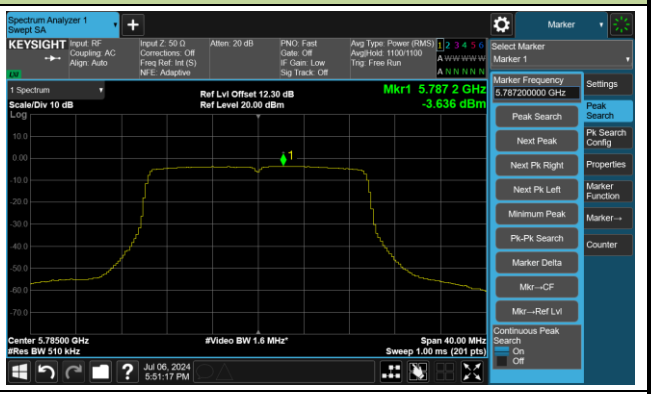
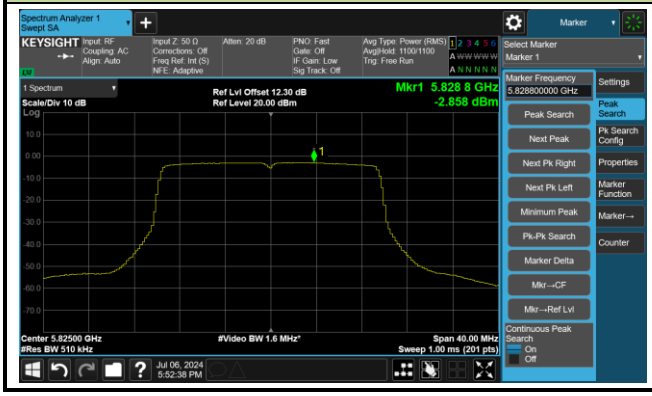


Channel 100 (5500MHz)



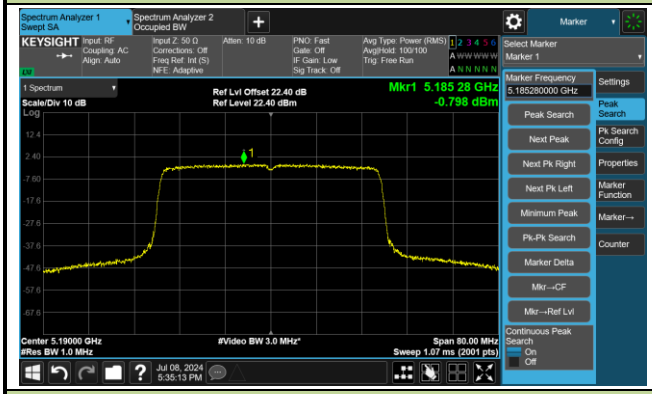
Channel 116 (5580MHz)



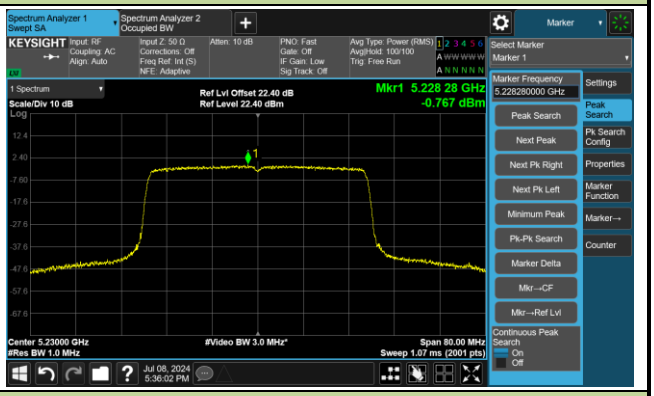
802.11ax-HE20 Power Spectral Density - Ant 2	
Channel 140 (5700MHz)	Channel 144(5720MHz)
	
Channel 149 (5745MHz)	Channel 157 (5785MHz)
	
Channel 165 (5825MHz)	
	

802.11ax-HE40 Power Spectral Density - Ant 2

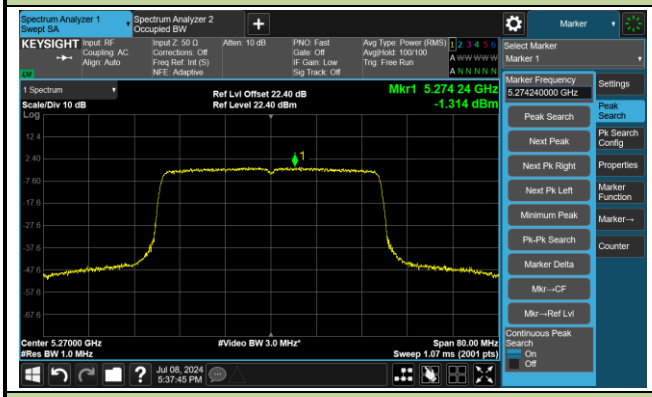
Channel 38 (5190MHz)



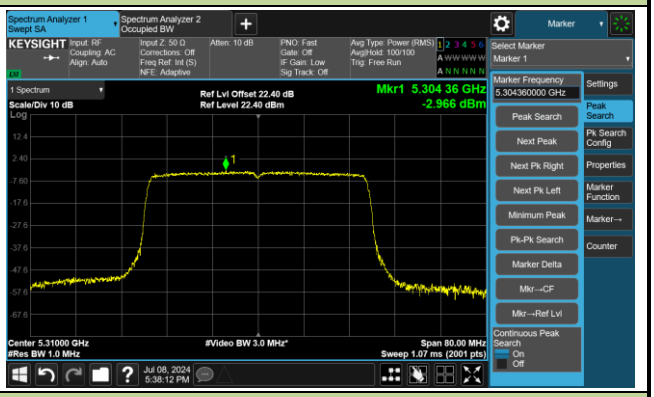
Channel 46 (5230MHz)



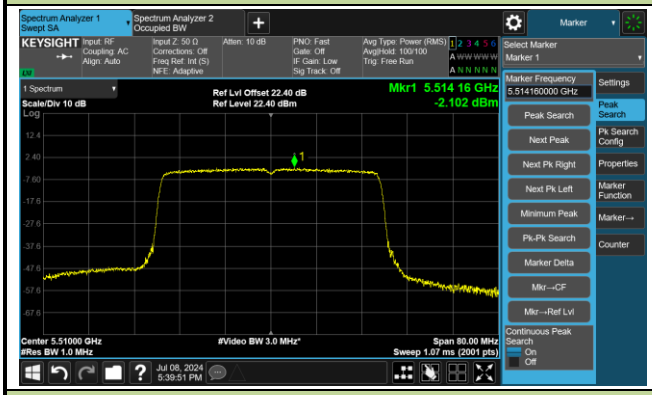
Channel 54 (5270MHz)



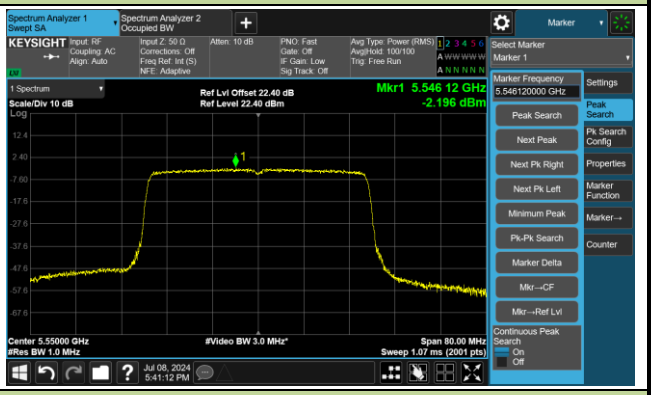
Channel 62 (5310MHz)



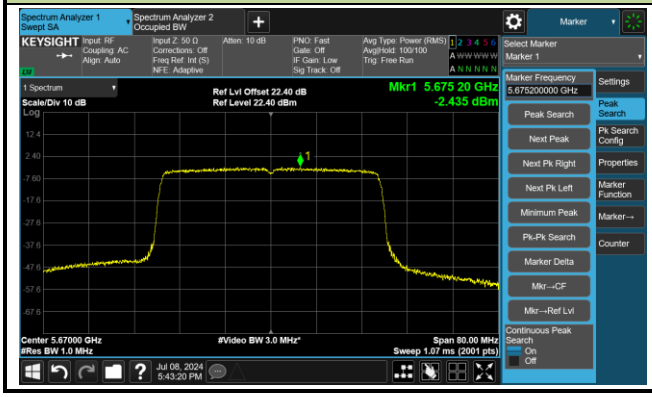
Channel 102 (5510MHz)



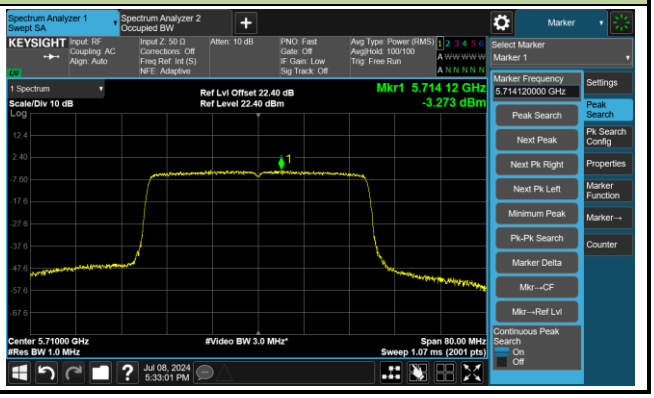
Channel 110 (5550MHz)

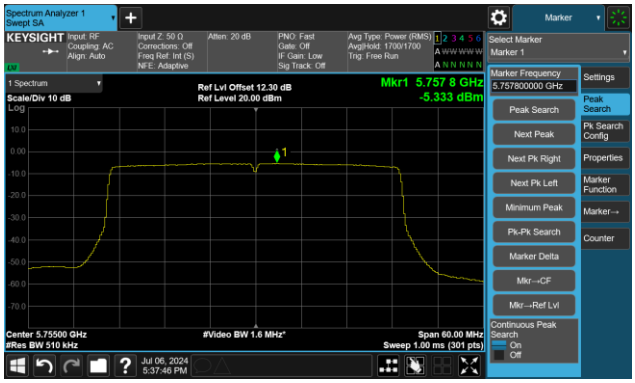
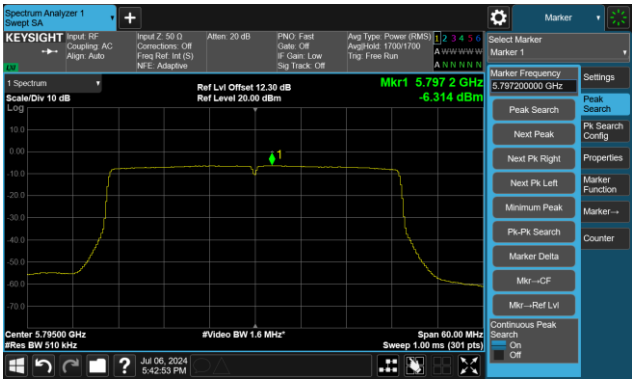


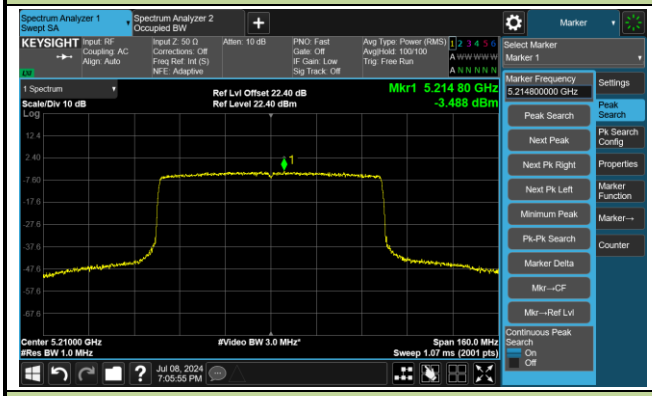
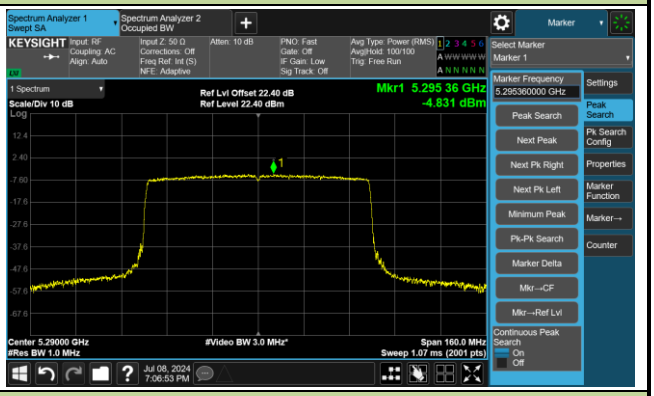
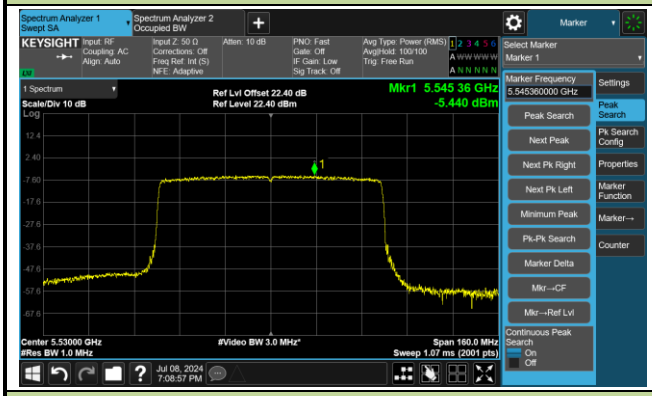
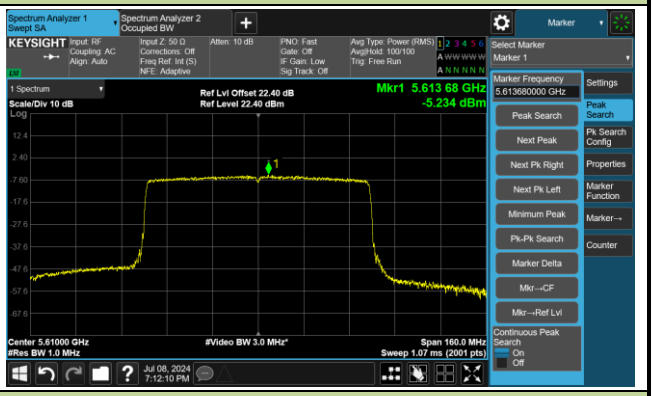
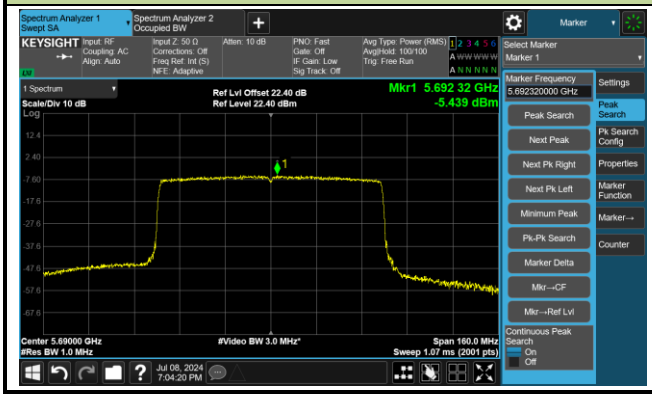
Channel 134 (5670MHz)



Channel 142(5710MHz)



802.11ax-HE40 Power Spectral Density - Ant 2	
Channel 151 (5755MHz)	Channel 159 (5795MHz)
	

802.11ax-HE80 Power Spectral Density - Ant 2	
Channel 42 (5210MHz)	Channel 58 (5290MHz)
	
Channel 106 (5530MHz)	Channel 122 (5610MHz)
	
Channel 138 (5690MHz)	Channel 155 (5775MHz)
	

Partial RU

Test Site	WZ-SR5	Test Engineer	Luis Yang
Test Date	2024-07-11 ~ 2024-07-19		
Test Item	Power Spectral Density (UNII-Band 1 & UNII-2a & UNII-2c)		

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	RU size / index	AVPSD (dBm/MHz)		Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)
					Ant 3	Ant 2			
11ax-HE20	MCS0	36	5180	RU26/0	-0.016	2.345	99.71	4.333	≤ 10.02
				RU52/37	1.386	1.587	99.71	4.498	≤ 10.02
				RU106/53	1.174	1.332	99.71	4.264	≤ 10.02
		44	5220	RU26/4	1.848	1.751	99.71	4.810	≤ 10.02
				RU52/38	1.886	1.715	99.71	4.812	≤ 10.02
				RU106/53	1.719	2.008	99.71	4.876	≤ 10.02
		48	5240	RU26/8	0.927	1.488	99.71	4.227	≤ 10.02
				RU52/40	1.346	1.186	99.71	4.277	≤ 10.02
				RU106/54	1.412	1.108	99.71	4.273	≤ 10.02
		52	5260	RU26/0	1.619	1.256	99.71	4.452	≤ 10.02
				RU52/37	1.443	0.829	99.71	4.157	≤ 10.02
				RU106/53	1.433	1.087	99.71	4.274	≤ 10.02
		60	5300	RU26/4	1.532	0.897	99.71	4.236	≤ 10.02
				RU52/38	1.978	0.235	99.71	4.204	≤ 10.02
				RU106/53	1.684	0.405	99.71	4.102	≤ 10.02
		64	5320	RU26/8	1.283	0.459	99.71	3.901	≤ 10.02
				RU52/40	1.683	0.320	99.71	4.065	≤ 10.02
				RU106/54	1.679	0.247	99.71	4.032	≤ 10.02
		100	5500	RU26/0	1.557	0.772	99.71	4.193	≤ 9.45
				RU52/37	1.652	0.664	99.71	4.196	≤ 9.45
				RU106/53	1.731	0.622	99.71	4.222	≤ 9.45
		116	5580	RU26/4	1.426	0.764	99.71	4.118	≤ 9.45
				RU52/38	1.588	0.169	99.71	3.946	≤ 9.45
				RU106/53	1.248	0.222	99.71	3.776	≤ 9.45
		140	5700	RU26/8	1.633	1.154	99.71	4.410	≤ 9.45
				RU52/40	1.788	0.209	99.71	4.080	≤ 9.45
				RU106/54	1.756	0.382	99.71	4.133	≤ 9.45

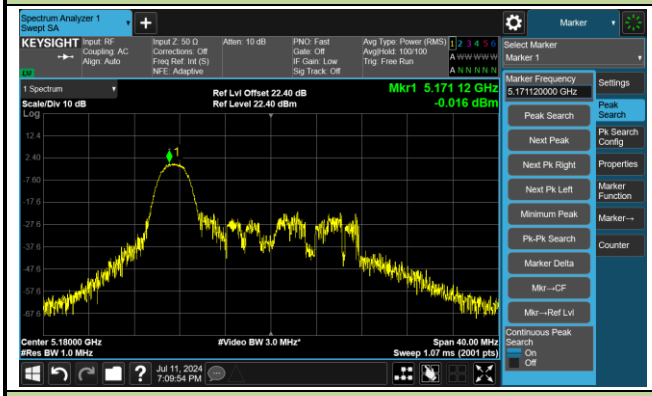
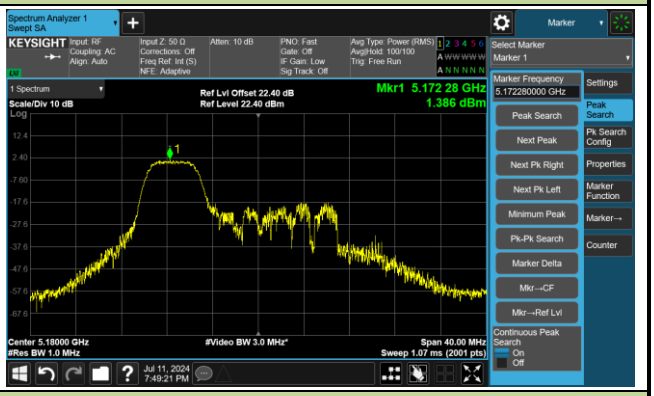
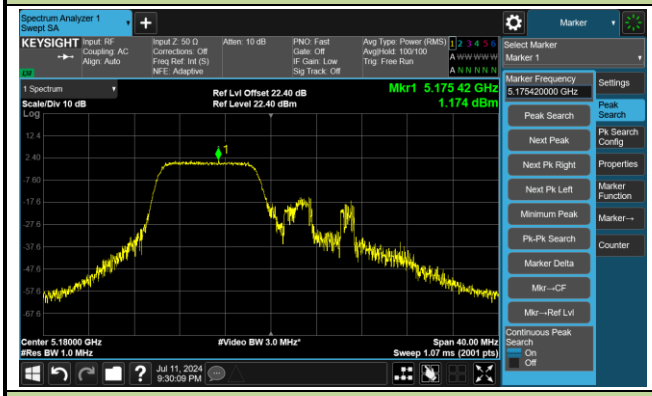
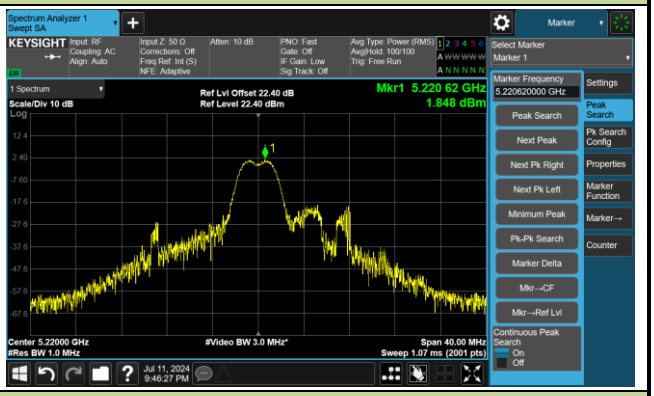
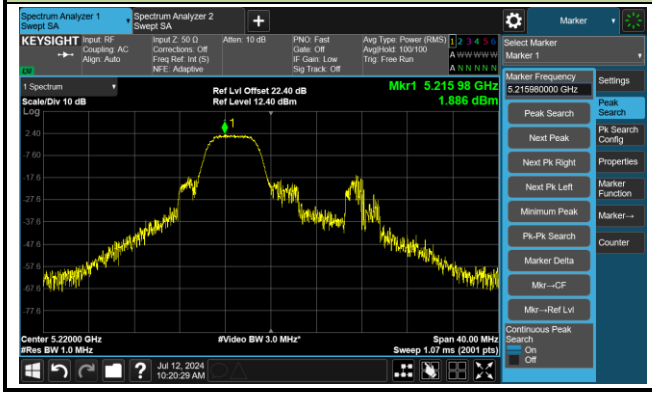
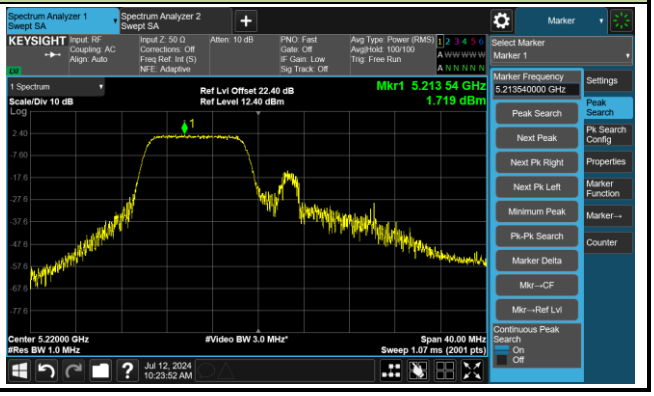
Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	RU size / index	AVPSD (dBm/MHz)		Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/MHz)
					Ant 3	Ant 2			
11ax-HE20	MCS0	144	5720	RU26/8	1.523	0.986	99.71	4.273	≤ 9.45
				RU52/40	1.711	0.337	99.71	4.088	≤ 9.45
				RU106/54	1.587	0.297	99.71	4.000	≤ 9.45
11ax-HE40	MCS0	38	5190	RU242/61	-1.925	-1.237	99.67	1.443	≤ 10.02
		46	5230	RU242/62	-1.479	-1.080	99.67	1.735	≤ 10.02
		54	5270	RU242/61	-0.982	-2.002	99.67	1.548	≤ 10.02
		62	5310	RU242/62	-1.635	-3.344	99.67	0.604	≤ 10.02
		102	5510	RU242/61	-0.997	-2.299	99.67	1.411	≤ 9.45
		110	5550	RU242/61	-0.624	-2.750	99.67	1.452	≤ 9.45
		134	5670	RU242/62	-0.831	-2.076	99.67	1.601	≤ 9.45
		142	5710	RU242/62	-1.830	-3.282	99.67	0.515	≤ 9.45
11ax-HE80	MCS0	42	5210	RU484/65	-4.408	-3.698	99.71	-1.028	≤ 10.02
		58	5290	RU484/66	-4.400	-5.598	99.71	-1.948	≤ 10.02
		106	5530	RU484/65	-4.103	-6.138	99.71	-1.992	≤ 9.45
		122	5610	RU484/66	-3.866	-5.891	99.71	-1.751	≤ 9.45
		138	5690	RU484/66	-4.219	-5.653	99.71	-1.867	≤ 9.45

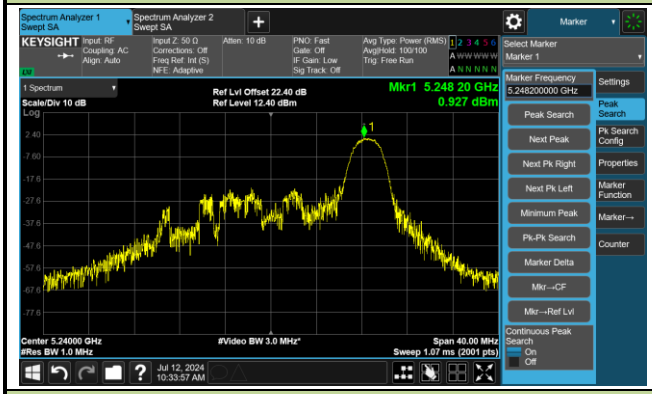
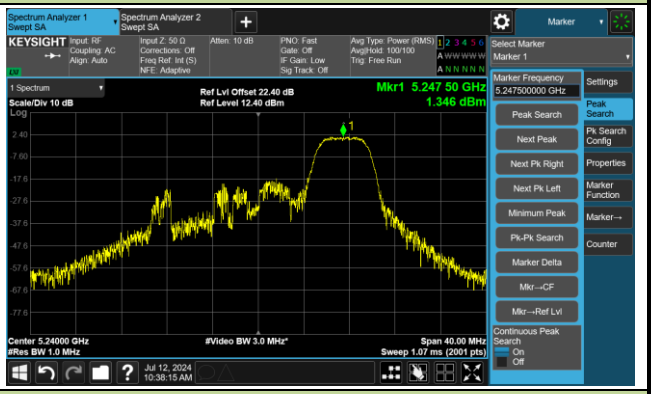
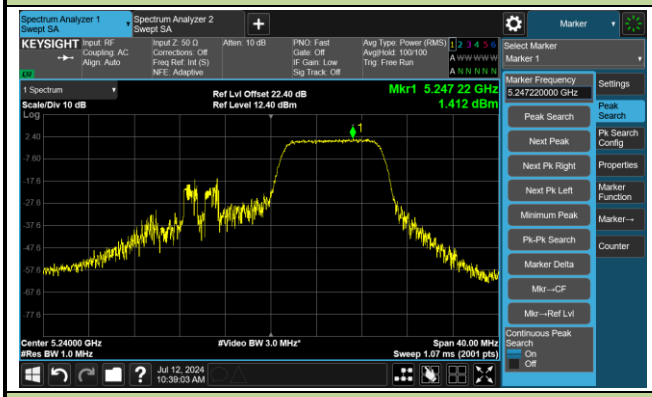
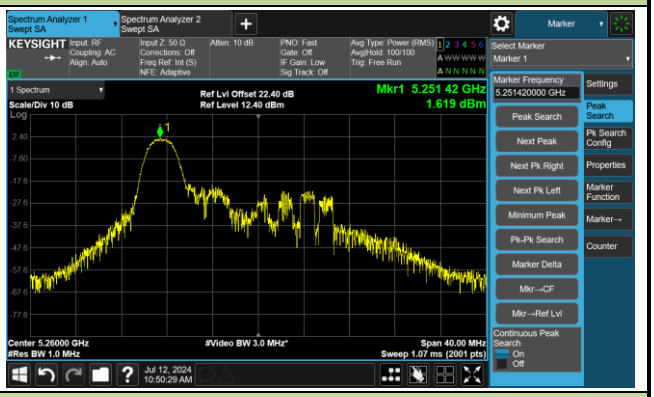
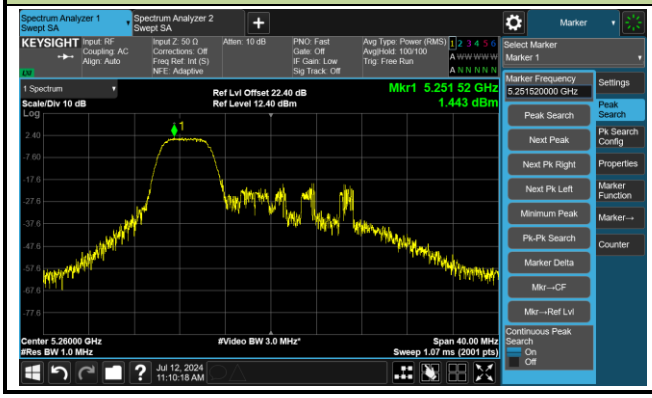
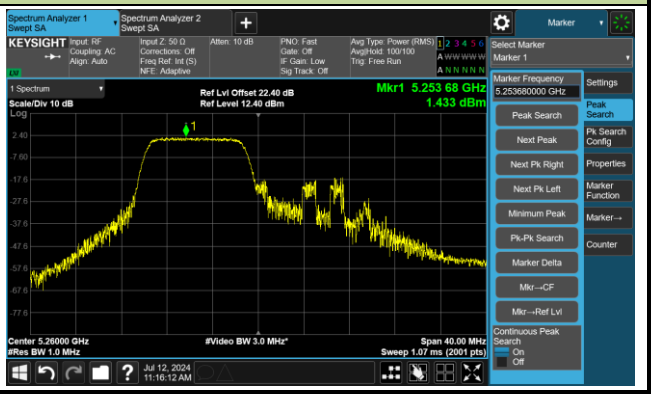
Note: When EUT duty cycle ≥ 98%, the total PSD (dBm/MHz) =10*log {$10^{(\text{Ant 3 AVGPSD}/10)}$ + $10^{(\text{Ant 2 AVGPSD}/10)}$} (dBm/MHz).

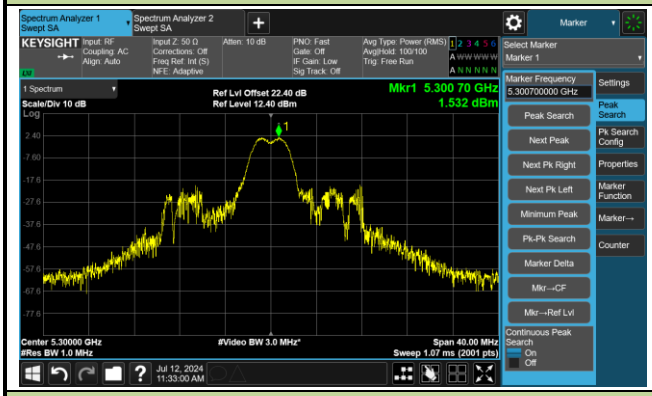
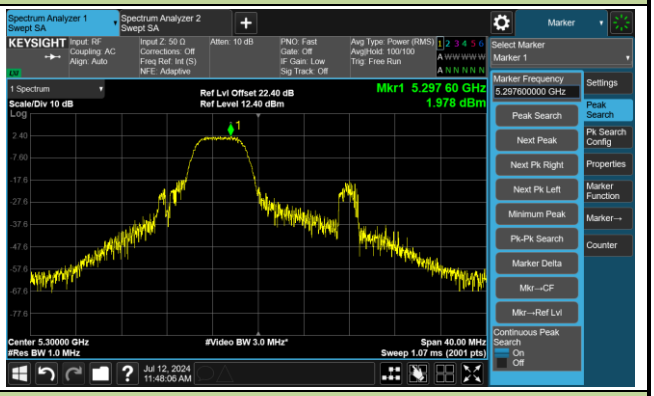
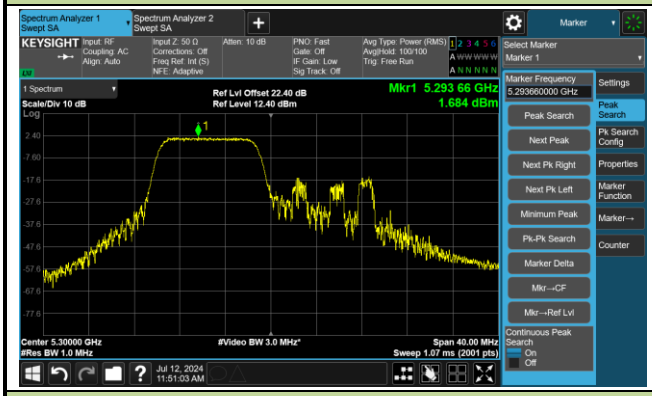
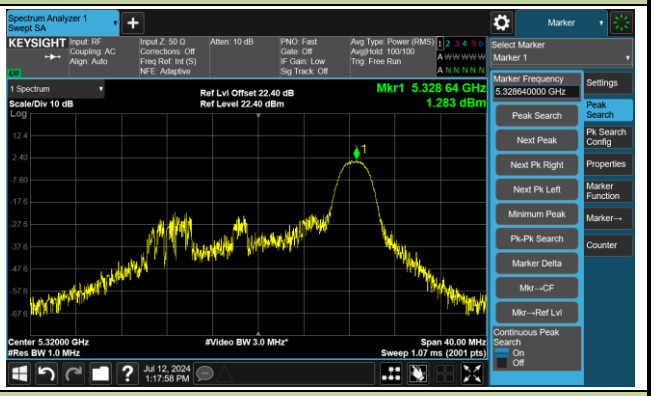
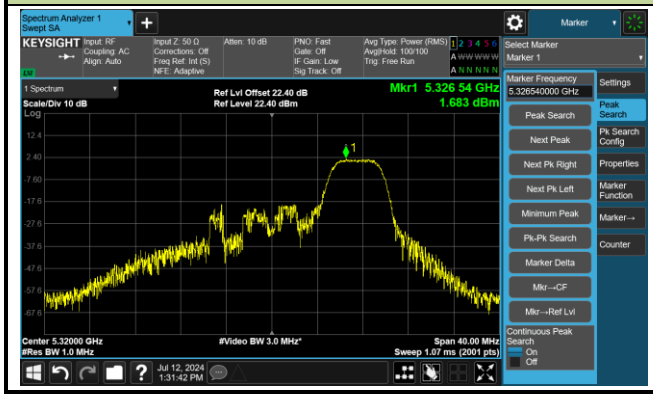
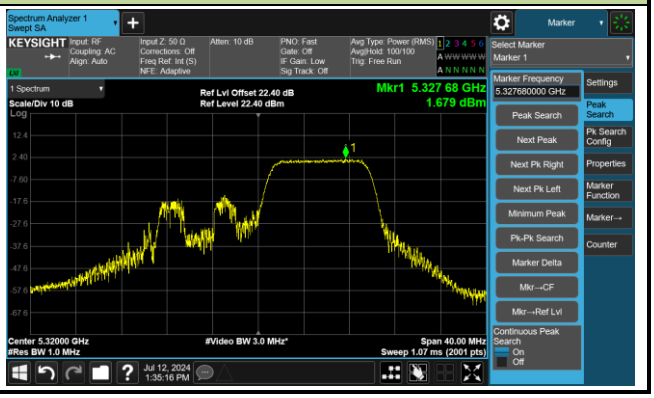
Test Site	WZ-SR5	Test Engineer	Luis Yang
Test Date	2024-07-12 ~ 2024-07-24		
Test Item	Power Spectral Density (UNII-Band 3)		

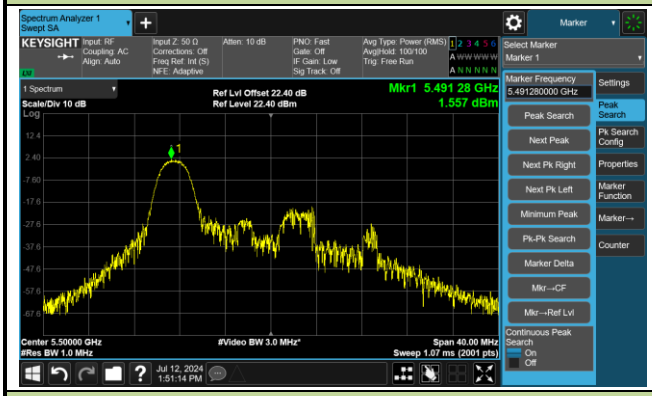
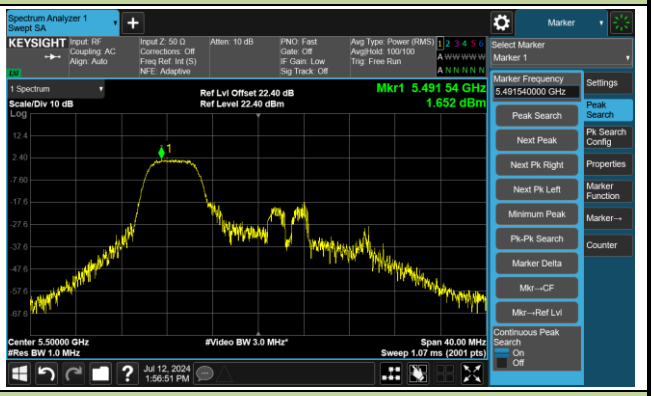
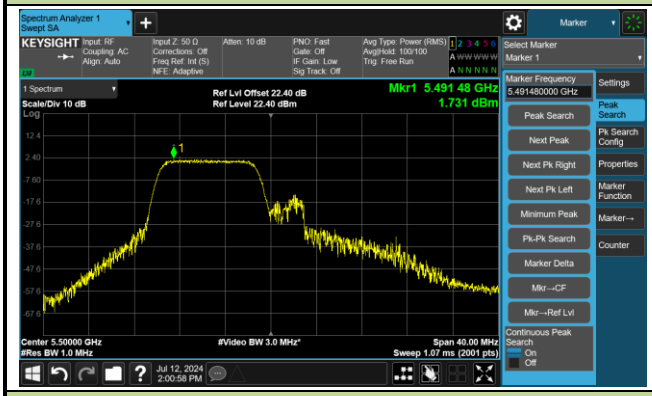
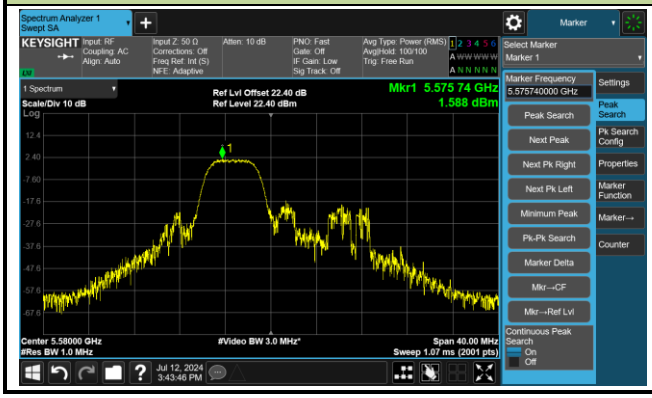
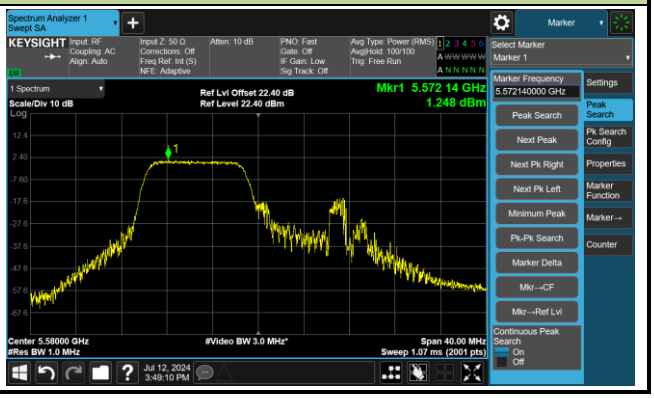
Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	RU size / index	AVPSD (dBm/510kHz)		Duty Cycle (%)	Total PSD (dBm/510kHz)	PSD Limit (dBm/500kHz)
					Ant 3	Ant 2			
11ax-HE20	MCS0	149	5745	RU26/0	-2.487	-2.419	99.71	0.557	≤ 28.78
				RU52/37	-2.574	-2.312	99.71	0.569	≤ 28.78
				RU106/53	-2.055	-3.160	99.71	0.438	≤ 28.78
		157	5785	RU26/4	-2.234	-2.762	99.71	0.520	≤ 28.78
				RU52/38	-2.417	-3.138	99.71	0.248	≤ 28.78
				RU106/53	-2.359	-2.901	99.71	0.389	≤ 28.78
		165	5825	RU26/8	-2.232	-2.103	99.71	0.843	≤ 28.78
				RU52/40	-2.207	-2.719	99.71	0.555	≤ 28.78
				RU106/54	-1.352	-3.350	99.71	0.773	≤ 28.78
11ax-HE40	MCS0	151	5755	RU242/61	-4.432	-5.507	99.67	-1.926	≤ 28.78
		159	5795	RU242/62	-4.614	-5.989	99.67	-2.237	≤ 28.78
11ax-HE80	MCS0	155	5775	RU484/65	-6.939	-8.212	99.71	-4.519	≤ 28.78

Note: When EUT duty cycle ≥ 98%, the total PSD (dBm/510kHz) =10*log {$10^{(\text{Ant 3 AVGPSD}/10)}$ + $10^{(\text{Ant 2 AVGPSD}/10)}$} (dBm/510kHz).

802.11ax-HE20 Power Spectral Density - Ant 3	
Channel 36 (5180MHz) RU26/0	Channel 36 (5180MHz) RU52/37
	
Channel 36 (5180MHz) RU106/53	Channel 44 (5220MHz) RU26/4
	
Channel 44 (5220MHz) RU52/38	Channel 44 (5220MHz) RU106/53
	

802.11ax-HE20 Power Spectral Density - Ant 3	
Channel 48 (5240MHz) RU26/8	Channel 48 (5240MHz) RU52/40
	
Channel 48 (5240MHz) RU106/54	Channel 52 (5260MHz) RU26/0
	
Channel 52 (5260MHz) RU52/37	Channel 52 (5260MHz) RU106/53
	

802.11ax-HE20 Power Spectral Density - Ant 3	
Channel 60 (5300MHz) RU26/4	Channel 60 (5300MHz) RU52/38
	
Channel 60 (5300MHz) RU106/53	Channel 64 (5320MHz) RU26/8
	
Channel 64 (5320MHz) RU52/40	Channel 64 (5320MHz) RU106/54
	

802.11ax-HE20 Power Spectral Density - Ant 3	
Channel 100 (5500MHz) RU26/0	Channel 100 (5500MHz) RU52/37
	
Channel 100 (5500MHz) RU106/53	Channel 116 (5580MHz) RU26/4
	
Channel 116 (5580MHz) RU52/38	Channel 116 (5580MHz) RU106/53