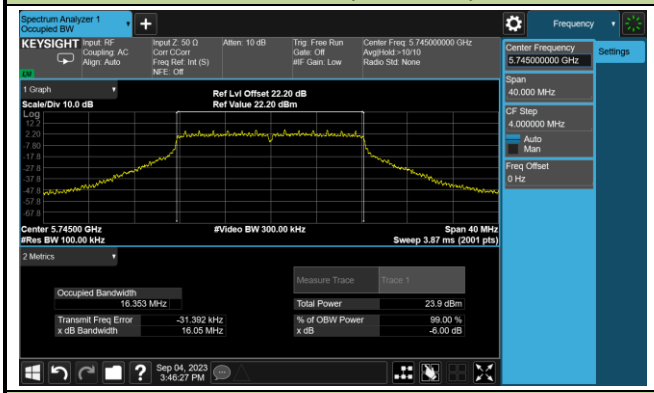
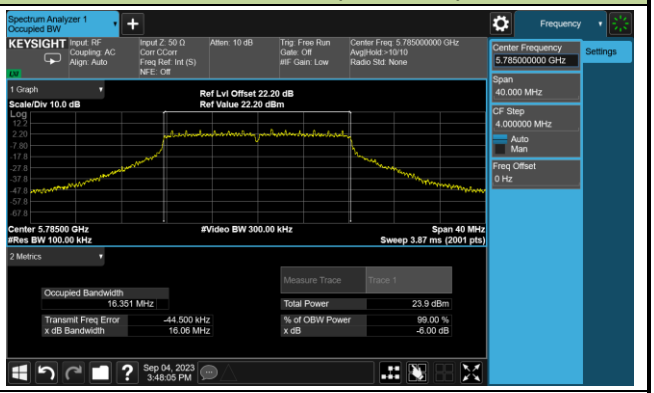
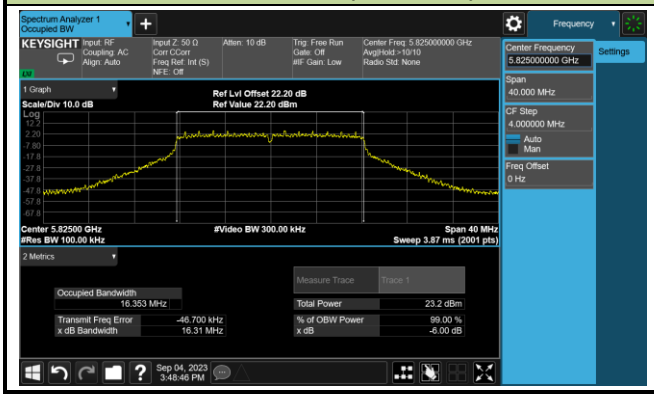
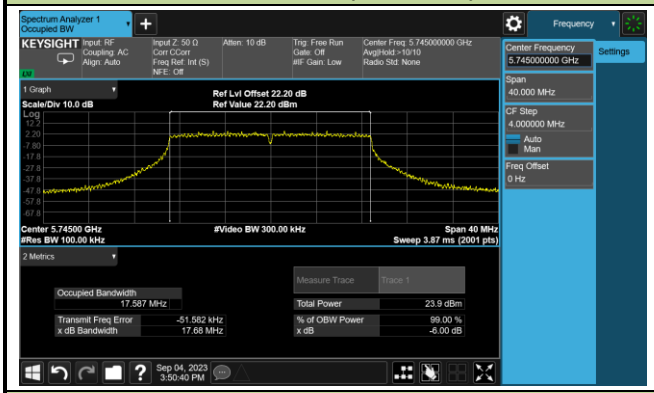
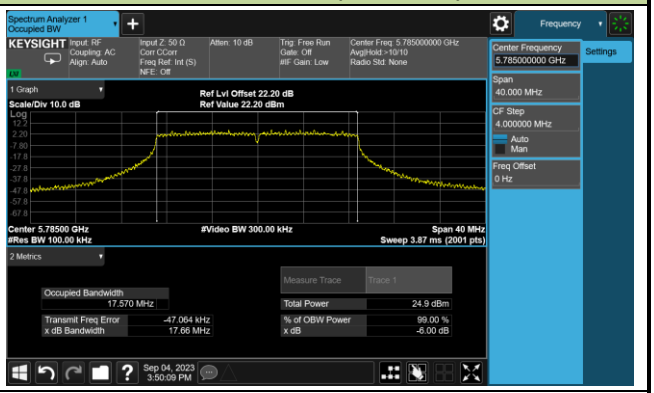
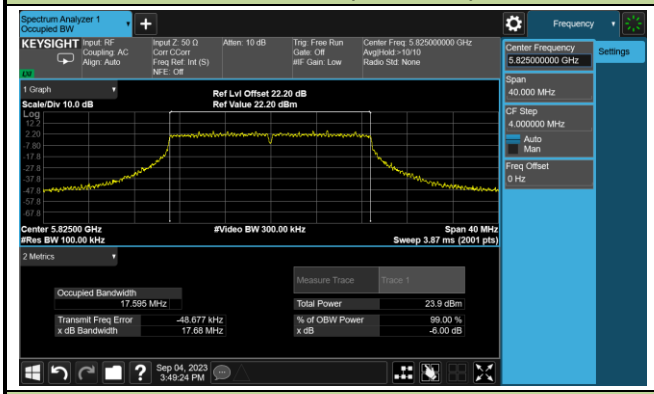
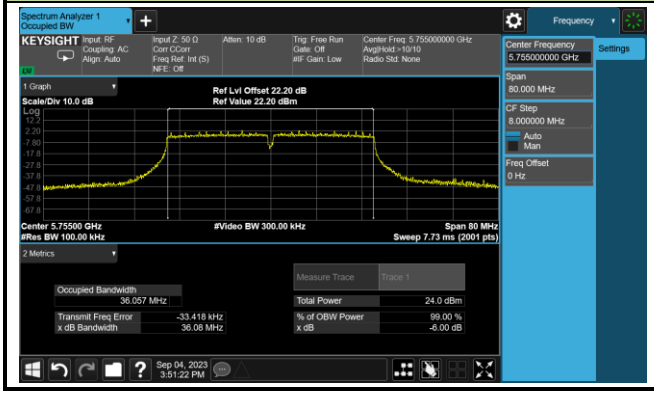
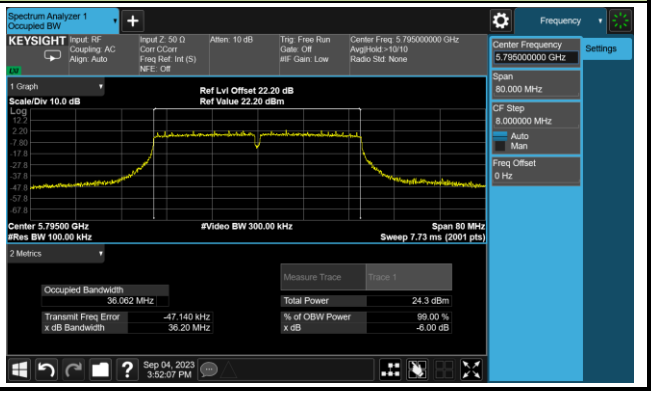
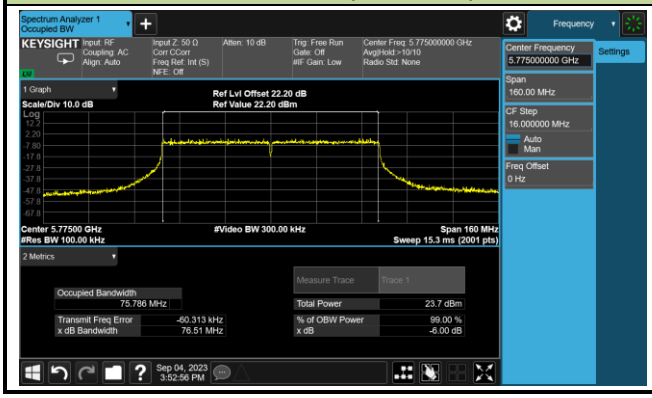
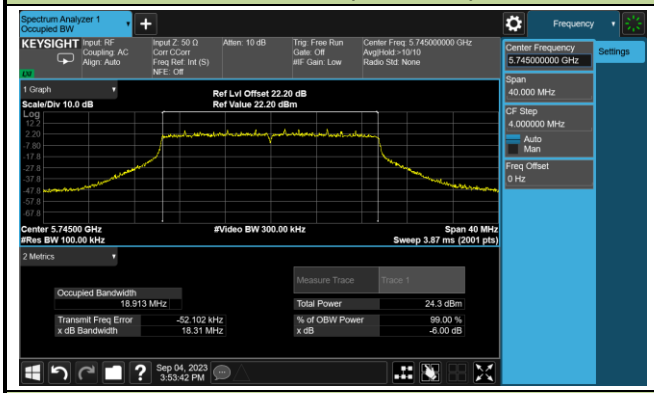
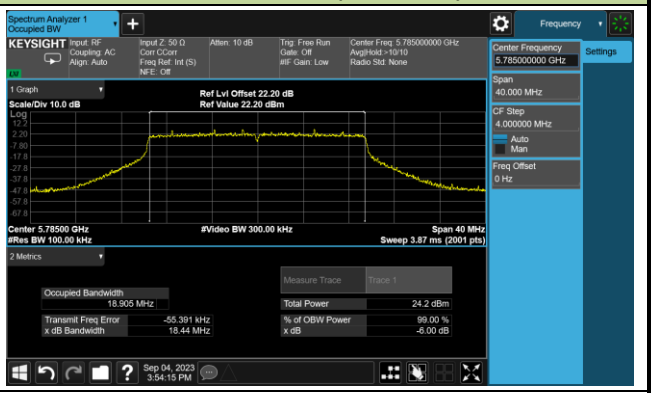
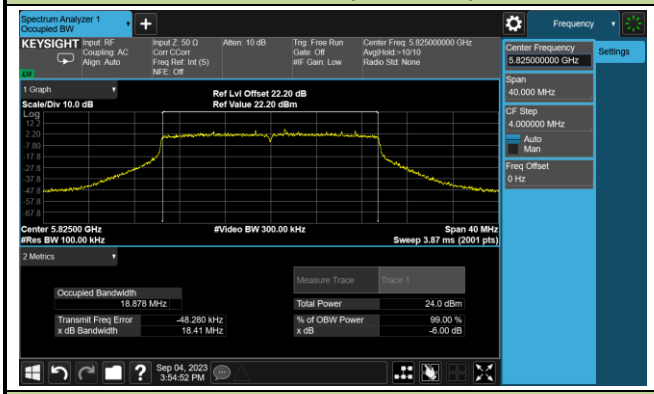
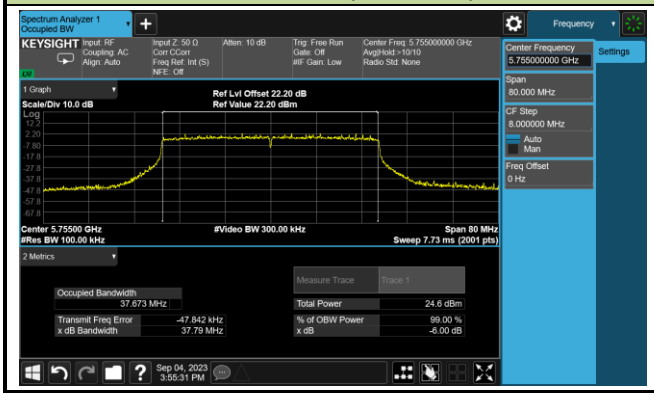
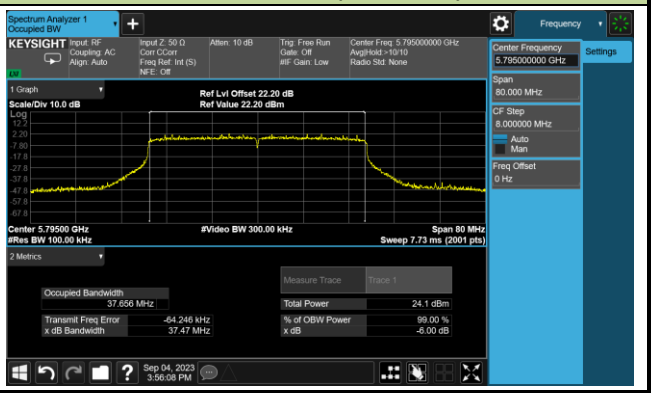
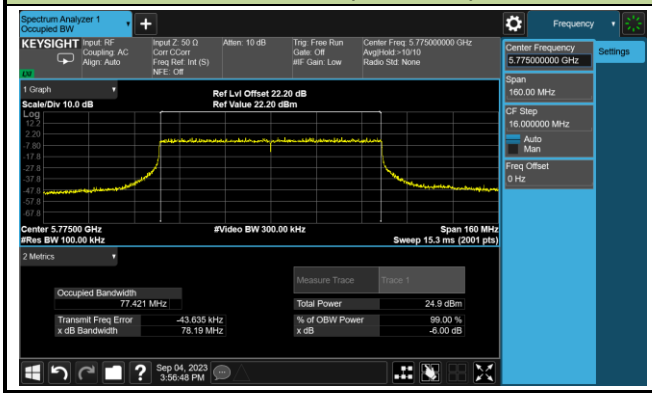
802.11a 6dB Bandwidth	
Channel 149 (5745MHz)	Channel 157 (5785MHz)
	
Channel 165 (5825MHz)	
	

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)	
	

A.4 Output Power Test Result

Test Site	SIP-TR1	Test Engineer	Alisa Deng
Test Date	2023-05-24~2023-08-31		

Test Mode	Data Rate MCS	Channel No.	Freq. (MHz)	Average Power (dBm)		Total Average Power (dBm)	Average Power Limit (dBm)
				Ant 0	Ant 1		
11a	6Mbps	36	5180	15.68	14.65	18.21	≤ 19.00
11a	6Mbps	44	5220	14.59	14.97	17.79	≤ 19.00
11a	6Mbps	48	5240	14.26	14.61	17.45	≤ 19.00
11a	6Mbps	52	5260	7.48	7.81	10.66	≤ 12.92
11a	6Mbps	60	5300	7.82	8.12	10.98	≤ 12.92
11a	6Mbps	64	5320	7.73	8.33	11.05	≤ 12.92
11a	6Mbps	100	5500	7.98	7.41	10.71	≤ 12.92
11a	6Mbps	116	5580	8.28	7.48	10.91	≤ 12.92
11a	6Mbps	140	5700	8.17	8.04	11.12	≤ 12.92
11a	6Mbps	144	5720	7.97	7.01	10.53	≤ 11.83
11a	6Mbps	149	5745	16.39	15.31	18.89	≤ 19.00
11a	6Mbps	157	5785	16.23	15.43	18.86	≤ 19.00
11a	6Mbps	165	5825	15.68	15.11	18.41	≤ 19.00
11ac-VHT20	MCS3	36	5180	11.02	11.82	14.45	≤ 19.00
11ac-VHT20	MCS3	44	5220	14.59	14.86	17.74	≤ 19.00
11ac-VHT20	MCS3	48	5240	14.15	14.54	17.36	≤ 19.00
11ac-VHT20	MCS3	52	5260	7.76	7.99	10.89	≤ 12.93
11ac-VHT20	MCS3	60	5300	7.72	8.05	10.90	≤ 12.93
11ac-VHT20	MCS3	64	5320	7.60	8.09	10.86	≤ 12.93
11ac-VHT20	MCS3	100	5500	8.18	7.76	10.99	≤ 12.93
11ac-VHT20	MCS3	116	5580	8.11	7.57	10.86	≤ 12.93
11ac-VHT20	MCS3	140	5700	7.88	6.61	10.30	≤ 12.93
11ac-VHT20	MCS3	144	5720	7.76	6.71	10.28	≤ 11.77
11ac-VHT20	MCS3	149	5745	15.56	15.44	18.51	≤ 19.00
11ac-VHT20	MCS3	157	5785	15.76	15.56	18.67	≤ 19.00
11ac-VHT20	MCS3	165	5825	14.99	15.52	18.27	≤ 19.00

Test Mode	Data Rate MCS	Channel No.	Freq. (MHz)	Average Power (dBm)		Total Average Power (dBm)	Average Power Limit (dBm)
				Ant 0	Ant 1		
11ac-VHT40	MCS2	38	5190	12.68	13.67	16.21	≤ 19.00
11ac-VHT40	MCS2	46	5230	15.69	16.04	18.88	≤ 19.00
11ac-VHT40	MCS2	54	5270	9.18	10.03	12.64	≤ 12.98
11ac-VHT40	MCS2	62	5310	8.98	10.12	12.60	≤ 12.98
11ac-VHT40	MCS2	102	5510	9.83	9.64	12.75	≤ 12.98
11ac-VHT40	MCS2	110	5550	9.51	9.39	12.46	≤ 12.98
11ac-VHT40	MCS2	134	5670	9.37	9.67	12.53	≤ 12.98
11ac-VHT40	MCS2	142	5710	9.40	9.71	12.57	≤ 12.98
11ac-VHT40	MCS2	151	5755	15.68	15.46	18.58	≤ 19.00
11ac-VHT40	MCS2	159	5795	15.72	15.82	18.78	≤ 19.00
11ac-VHT80	MCS4	42	5210	14.69	15.56	18.16	≤ 19.00
11ac-VHT80	MCS4	58	5290	8.83	10.32	12.65	≤ 12.98
11ac-VHT80	MCS4	106	5530	9.22	9.57	12.41	≤ 12.98
11ac-VHT80	MCS4	122	5610	9.52	9.38	12.46	≤ 12.98
11ac-VHT80	MCS4	138	5690	9.42	10.01	12.74	≤ 12.98
11ac-VHT80	MCS4	155	5775	15.77	15.13	18.47	≤ 19.00
11ax-HE20	MCS1	36	5180	15.34	14.31	17.87	≤ 19.00
11ax-HE20	MCS1	44	5220	14.46	14.69	17.59	≤ 19.00
11ax-HE20	MCS1	48	5240	13.97	14.06	17.03	≤ 19.00
11ax-HE20	MCS1	52	5260	8.06	8.21	11.15	≤ 12.98
11ax-HE20	MCS1	60	5300	8.01	7.99	11.01	≤ 12.98
11ax-HE20	MCS1	64	5320	7.72	8.25	11.00	≤ 12.98
11ax-HE20	MCS1	100	5500	8.34	8.28	11.32	≤ 12.98
11ax-HE20	MCS1	116	5580	8.56	7.97	11.29	≤ 12.98
11ax-HE20	MCS1	140	5700	8.06	8.31	11.20	≤ 12.98
11ax-HE20	MCS1	144	5720	8.08	8.15	11.13	≤ 11.91
11ax-HE20	MCS1	149	5745	15.91	15.67	18.80	≤ 19.00
11ax-HE20	MCS1	157	5785	15.73	15.31	18.54	≤ 19.00
11ax-HE20	MCS1	165	5825	15.43	15.82	18.64	≤ 19.00

Test Mode	Data Rate MCS	Channel No.	Freq. (MHz)	Average Power (dBm)		Total Average Power (dBm)	Average Power Limit (dBm)
				Ant 0	Ant 1		
11ax-HE40	MCS0	38	5190	13.85	14.63	17.27	≤ 19.00
11ax-HE40	MCS0	46	5230	15.15	15.40	18.29	≤ 19.00
11ax-HE40	MCS0	54	5270	9.29	10.15	12.75	≤ 12.98
11ax-HE40	MCS0	62	5310	9.18	10.33	12.80	≤ 12.98
11ax-HE40	MCS0	102	5510	10.00	9.73	12.88	≤ 12.98
11ax-HE40	MCS0	110	5550	9.78	9.46	12.63	≤ 12.98
11ax-HE40	MCS0	134	5670	9.46	9.83	12.66	≤ 12.98
11ax-HE40	MCS0	142	5710	9.47	9.87	12.68	≤ 12.98
11ax-HE40	MCS0	151	5755	15.69	15.82	18.77	≤ 19.00
11ax-HE40	MCS0	159	5795	15.31	15.64	18.49	≤ 19.00
11ax-HE80	MCS6	42	5210	14.59	15.55	18.11	≤ 19.00
11ax-HE80	MCS6	58	5290	10.21	9.46	12.86	≤ 12.98
11ax-HE80	MCS6	106	5530	9.56	9.91	12.75	≤ 12.98
11ax-HE80	MCS6	122	5610	9.37	9.66	12.53	≤ 12.98
11ax-HE80	MCS6	138	5690	9.39	9.66	12.54	≤ 12.98
11ax-HE80	MCS6	155	5775	15.33	15.66	18.51	≤ 19.00

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

Note 2:

For 5150-5250MHz & 5725-5850MHz, Average Power Limit = 30 - (Ant Gain - 6).

For 5250-5350MHz & 5470-5725MHz, Average Power Limit = Min{23.98, 11+10log10(26dBc)} - (Ant Gain - 6).

For straddle channel, Average Power Limit =11+10*log(5+26dBc/2) – (Ant Gain - 6).

A.5 Power Spectral Density Test Result

Test Site	SIP-TR1	Test Engineer	Alisa Deng
Test Date	2023-05-24~2023-08-31		
Test Item	Power Spectral Density (UNII-Band 1 & UNII-2a & UNII-2c)		

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	AVPSD (dBm/ MHz)		Duty Cycle (%)	Total PSD (dBm/ MHz)	PSD Limit (dBm/MHz)
				Ant 0	Ant 1			
11a	6Mbps	36	5180	1.967	2.281	91.61	5.52	6.00
11a	6Mbps	44	5220	2.151	2.592	91.61	5.77	6.00
11a	6Mbps	48	5240	1.995	2.535	91.61	5.66	6.00
11a	6Mbps	52	5260	-4.153	-3.715	91.61	-0.54	0.00
11a	6Mbps	60	5300	-3.807	-3.267	91.61	-0.14	0.00
11a	6Mbps	64	5320	-3.708	-3.338	91.61	-0.13	0.00
11a	6Mbps	100	5500	-3.602	-4.106	91.61	-0.46	0.00
11a	6Mbps	116	5580	-3.187	-3.848	91.61	-0.11	0.00
11a	6Mbps	140	5700	-3.703	-3.613	91.61	-0.27	0.00
11a	6Mbps	144	5720	-3.924	-3.479	91.61	-0.30	0.00
11ac-VHT20	MCS3	36	5180	-0.609	0.215	91.47	3.22	6.00
11ac-VHT20	MCS3	44	5220	2.351	2.330	91.47	5.74	6.00
11ac-VHT20	MCS3	48	5240	2.359	2.518	91.47	5.84	6.00
11ac-VHT20	MCS3	52	5260	-3.803	-3.822	91.47	-0.41	0.00
11ac-VHT20	MCS3	60	5300	-3.886	-3.722	91.47	-0.41	0.00
11ac-VHT20	MCS3	64	5320	-4.047	-3.576	91.47	-0.41	0.00
11ac-VHT20	MCS3	100	5500	-3.438	-3.879	91.47	-0.26	0.00
11ac-VHT20	MCS3	116	5580	-3.444	-4.123	91.47	-0.37	0.00
11ac-VHT20	MCS3	140	5700	-3.787	-4.181	91.47	-0.58	0.00
11ac-VHT20	MCS3	144	5720	-4.067	-3.667	91.47	-0.46	0.00
11ac-VHT40	MCS2	38	5190	-1.709	-1.834	92.56	1.58	6.00
11ac-VHT40	MCS2	46	5230	0.652	0.922	92.56	4.14	6.00
11ac-VHT40	MCS2	54	5270	-5.266	-4.640	92.56	-1.60	0.00
11ac-VHT40	MCS2	62	5310	-5.679	-4.925	92.56	-1.94	0.00
11ac-VHT40	MCS2	102	5510	-5.472	-5.583	92.56	-2.18	0.00
11ac-VHT40	MCS2	110	5550	-5.363	-6.013	92.56	-2.33	0.00
11ac-VHT40	MCS2	134	5670	-5.331	-5.456	92.56	-2.05	0.00
11ac-VHT40	MCS2	142	5710	-5.036	-5.159	92.56	-1.75	0.00

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	AVPSD (dBm/ MHz)		Duty Cycle (%)	Total PSD (dBm/ MHz)	PSD Limit (dBm/MHz)
				Ant 0	Ant 1			
11ac-VHT80	MCS4	42	5210	-3.561	-3.148	92.52	0.00	6.00
11ac-VHT80	MCS4	58	5290	-9.020	-8.244	92.52	-5.27	0.00
11ac-VHT80	MCS4	106	5530	-9.086	-9.557	92.52	-5.97	0.00
11ac-VHT80	MCS4	122	5610	-8.890	-9.374	92.52	-5.78	0.00
11ac-VHT80	MCS4	138	5690	-8.742	-8.376	92.52	-5.21	0.00
11ax-HE20	MCS1	36	5180	2.940	1.939	92.24	5.83	6.00
11ax-HE20	MCS1	44	5220	2.197	2.285	92.24	5.60	6.00
11ax-HE20	MCS1	48	5240	1.793	2.284	92.24	5.41	6.00
11ax-HE20	MCS1	52	5260	-3.741	-3.821	92.24	-0.42	0.00
11ax-HE20	MCS1	60	5300	-3.938	-3.650	92.24	-0.43	0.00
11ax-HE20	MCS1	64	5320	-3.856	-3.606	92.24	-0.37	0.00
11ax-HE20	MCS1	100	5500	-3.630	-3.908	92.24	-0.41	0.00
11ax-HE20	MCS1	116	5580	-3.497	-4.167	92.24	-0.46	0.00
11ax-HE20	MCS1	140	5700	-4.047	-3.815	92.24	-0.57	0.00
11ax-HE20	MCS1	144	5720	-3.937	-3.772	92.24	-0.49	0.00
11ax-HE40	MCS0	38	5190	0.969	-0.073	91.78	3.86	6.00
11ax-HE40	MCS0	46	5230	0.063	0.657	91.78	3.75	6.00
11ax-HE40	MCS0	54	5270	-5.170	-5.759	91.78	-2.07	0.00
11ax-HE40	MCS0	62	5310	-6.044	-5.265	91.78	-2.25	0.00
11ax-HE40	MCS0	102	5510	-5.543	-5.872	91.78	-2.32	0.00
11ax-HE40	MCS0	110	5550	-5.632	-6.250	91.78	-2.55	0.00
11ax-HE40	MCS0	134	5670	-5.388	-5.379	91.78	-2.00	0.00
11ax-HE40	MCS0	142	5710	-5.362	-4.943	91.78	-1.76	0.00
11ax-HE80	MCS6	42	5210	-3.169	-2.682	92.49	0.43	6.00
11ax-HE80	MCS6	58	5290	-9.464	-8.669	92.49	-5.70	0.00
11ax-HE80	MCS6	106	5530	-9.406	-9.892	92.49	-6.29	0.00
11ax-HE80	MCS6	122	5610	-9.316	-9.437	92.49	-6.03	0.00
11ax-HE80	MCS6	138	5690	-8.802	-8.560	92.49	-5.33	0.00

Note 1: When EUT duty cycle < 98%, the total PSD (dBm/MHz) =10*log {$10^{(\text{Ant 0 AVGPSD}/10)}$ + $10^{(\text{Ant 1 AVGPSD}/10)}$} +10*log (1/Duty cycle).

When EUT duty cycle ≥ 98%, the total PSD (dBm/MHz) =10*log {$10^{(\text{Ant 0 AVGPSD}/10)}$ + $10^{(\text{Ant 1 AVGPSD}/10)}$}.

Note 2: For 5150-5250MHz, PSD Limit (dBm/500kHz) = 17 - (17.0 - 6) = 6.00dBm/MHz.

For 5250-5350MHz&5470-5725MHz, PSD Limit (dBm/500kHz) = 11 - (17.0 - 6) = 0.00dBm/MHz.

Test Site	SIP-TR1	Test Engineer	Alisa Deng
Test Date	2023-08-28		
Test Item	Power Spectral Density (UNII-Band 3)		

Test Mode	Data Rate/ MCS	Channel No.	Freq. (MHz)	AVPSD (dBm/ 510kHz)		Duty Cycle (%)	Total PSD (dBm/ 510kHz)	PSD Limit (dBm/ 500kHz)
				Ant 0	Ant 1			
11a	6Mbps	149	5745	1.635	2.227	91.61	5.33	≤ 19.00
11a	6Mbps	157	5785	1.432	2.447	91.61	5.36	≤ 19.00
11a	6Mbps	165	5825	0.909	1.694	91.61	4.71	≤ 19.00
11ac-VHT20	MCS3	149	5745	1.038	1.666	91.47	4.76	≤ 19.00
11ac-VHT20	MCS3	157	5785	1.622	2.393	91.47	5.42	≤ 19.00
11ac-VHT20	MCS3	165	5825	0.897	1.417	91.47	4.56	≤ 19.00
11ac-VHT40	MCS2	151	5755	-0.795	-0.085	92.56	2.92	≤ 19.00
11ac-VHT40	MCS2	159	5795	-0.375	0.670	92.56	3.52	≤ 19.00
11ac-VHT80	MCS4	155	5775	-4.725	-4.209	92.52	-1.11	≤ 19.00
11ax-HE20	MCS1	149	5745	1.097	1.683	92.24	4.76	≤ 19.00
11ax-HE20	MCS1	157	5785	1.315	2.132	92.24	5.10	≤ 19.00
11ax-HE20	MCS1	165	5825	1.362	1.942	92.24	5.02	≤ 19.00
11ax-HE40	MCS0	151	5755	-0.816	-0.281	91.78	2.84	≤ 19.00
11ax-HE40	MCS0	159	5795	-1.068	-0.536	91.78	2.59	≤ 19.00
11ax-HE80	MCS6	155	5775	-4.483	-4.020	92.49	-0.90	≤ 19.00

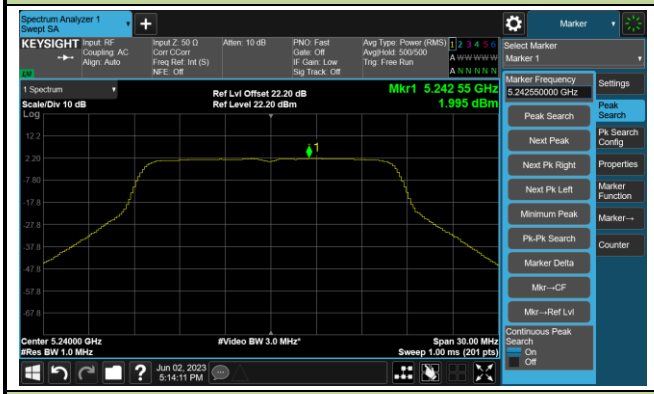
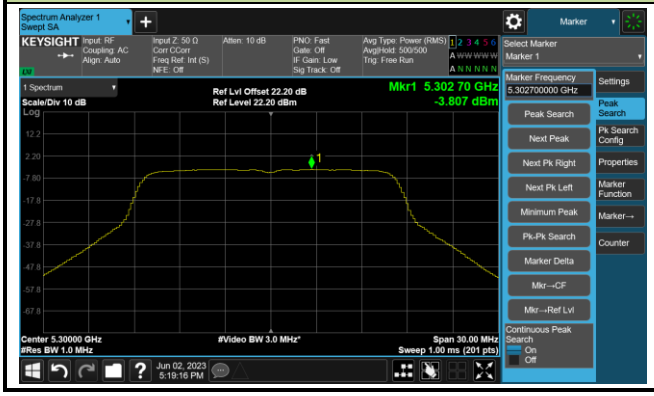
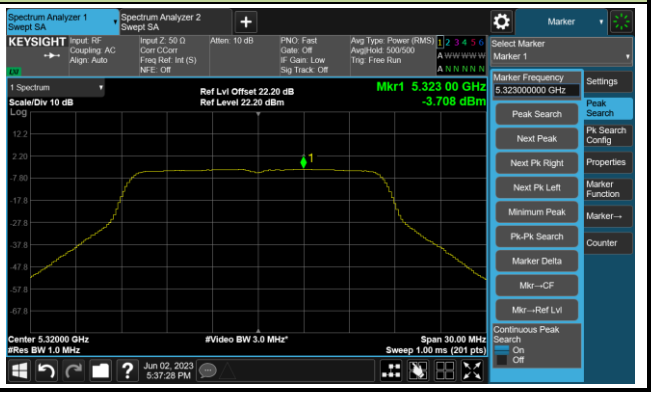
Note 1:

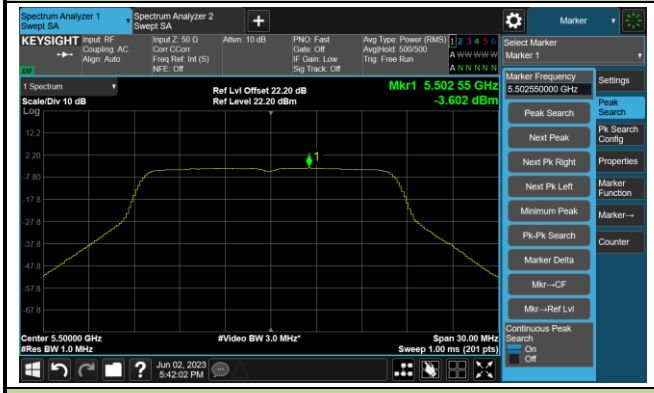
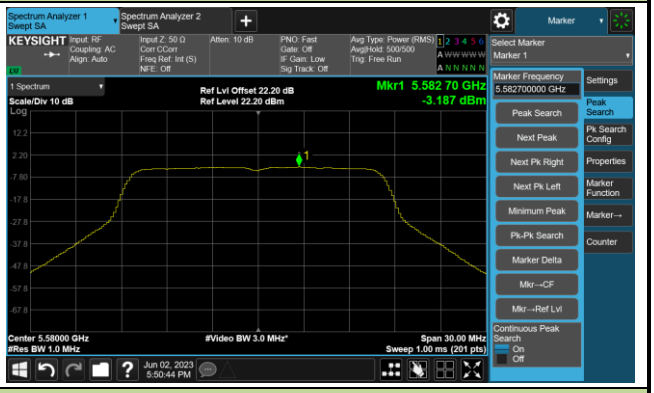
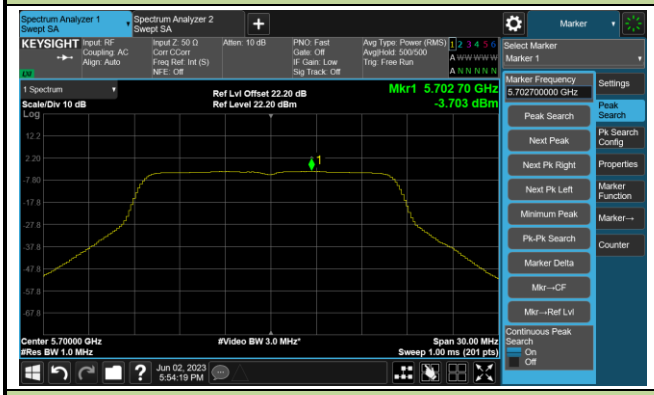
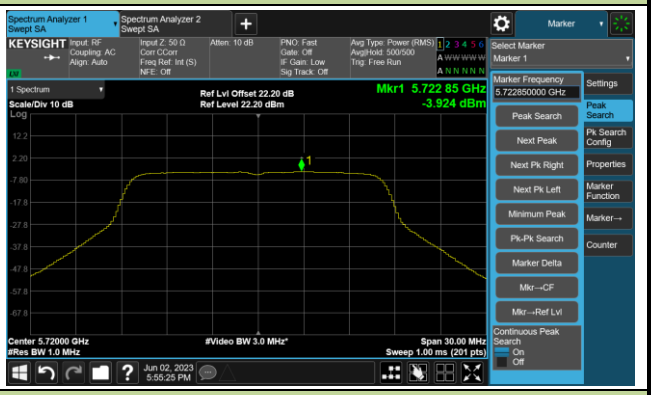
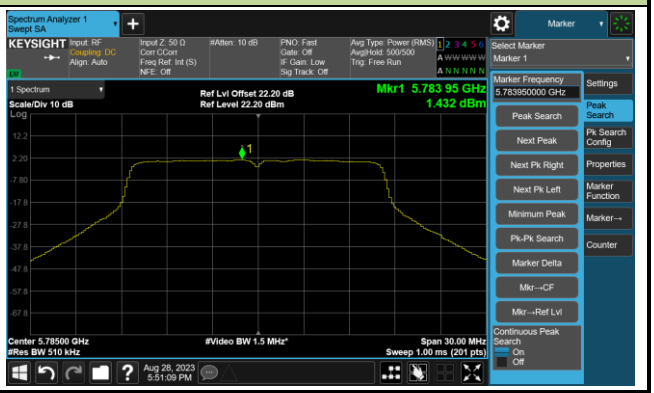
When EUT duty cycle < 98%, the total PSD (dBm/510kHz) =10*log {$10^{(\text{Ant 0 AVGPSD}/10)} + 10^{(\text{Ant 1 AVGPSD}/10)}$}

+10*log (1/Duty cycle).

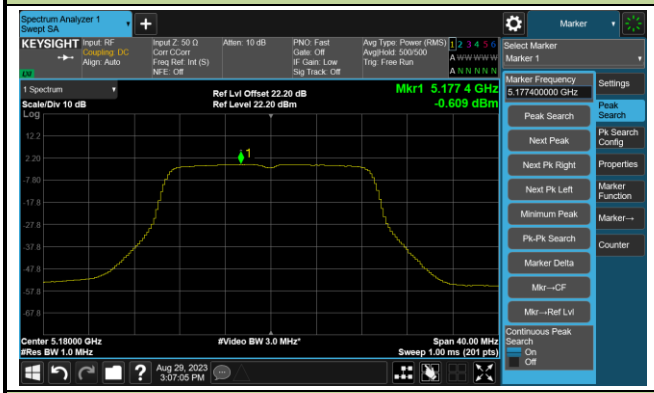
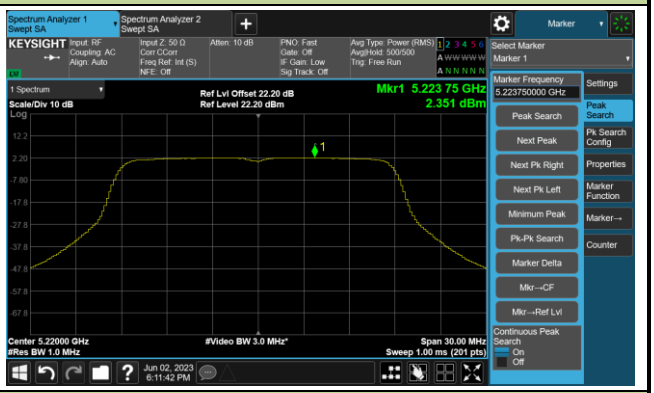
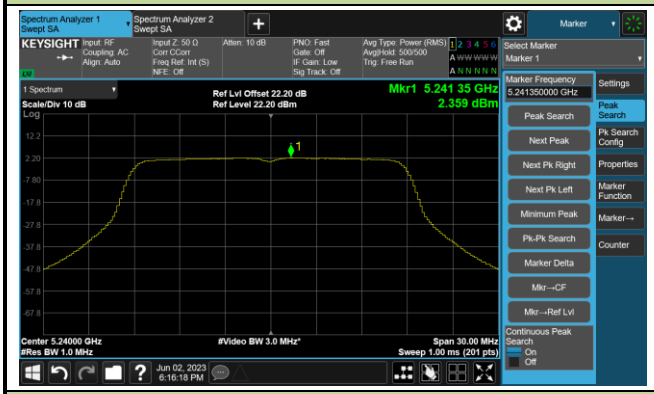
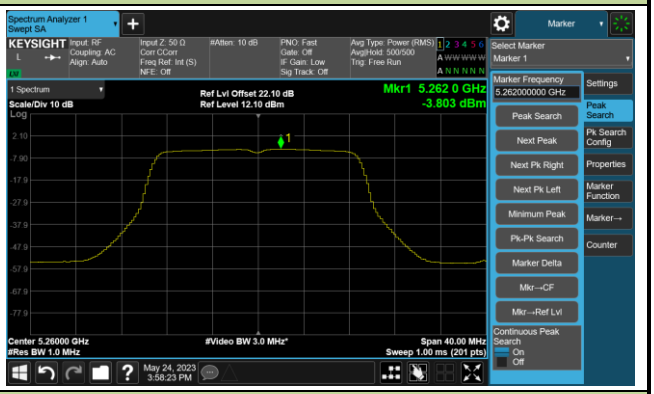
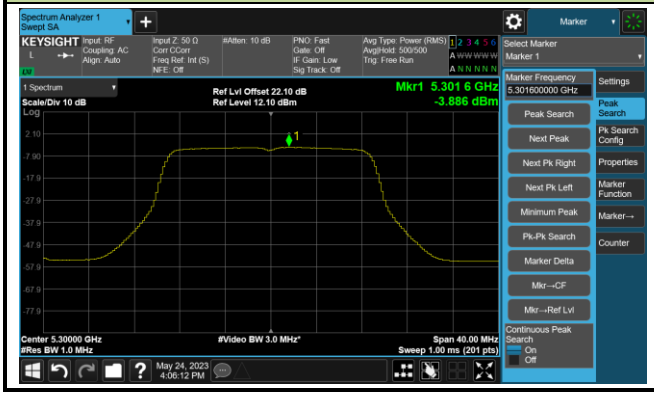
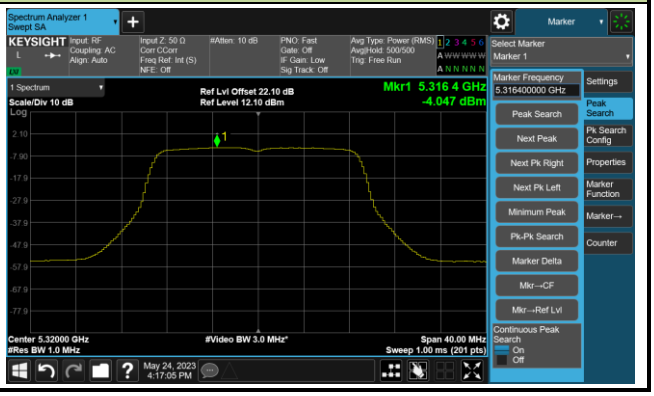
When EUT duty cycle ≥ 98%, the total PSD (dBm/510kHz) =10*log {$10^{(\text{Ant 0 AVGPSD}/10)} + 10^{(\text{Ant 1 AVGPSD}/10)}$}.

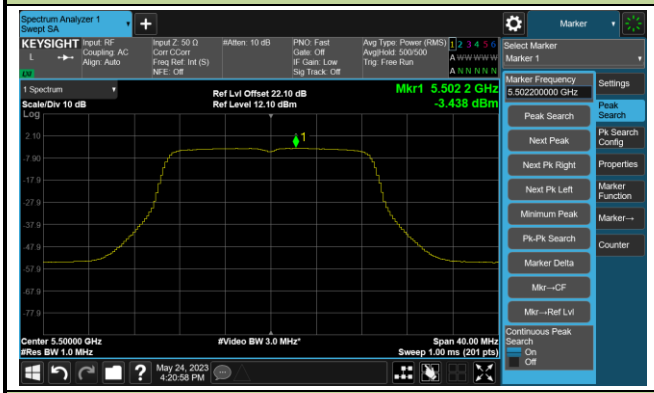
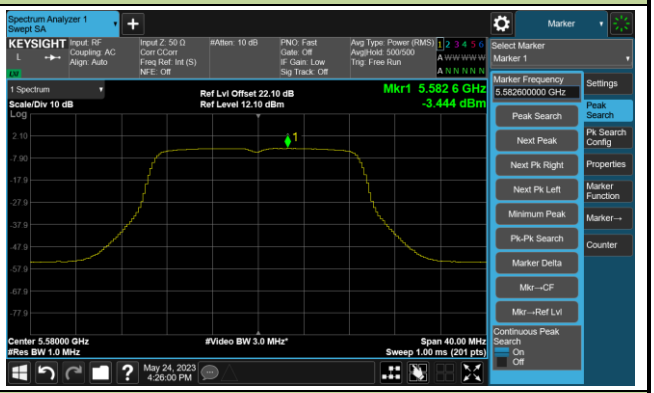
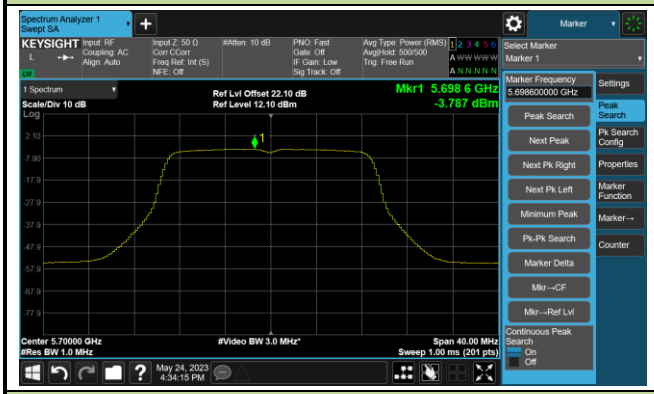
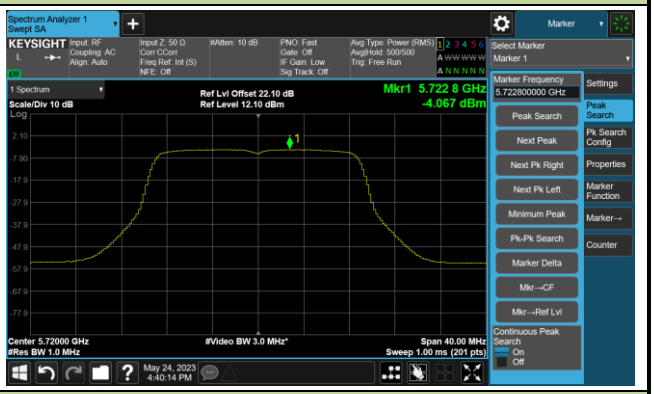
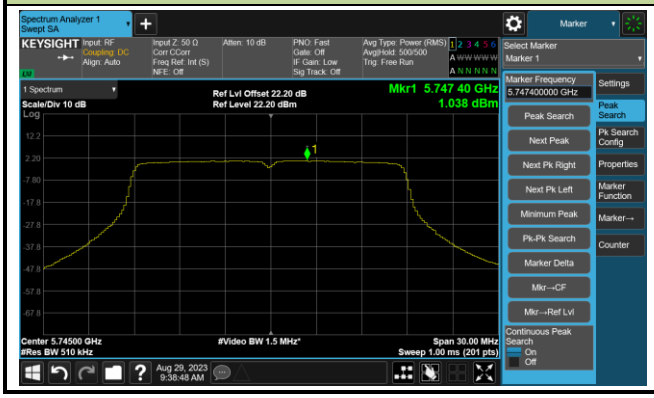
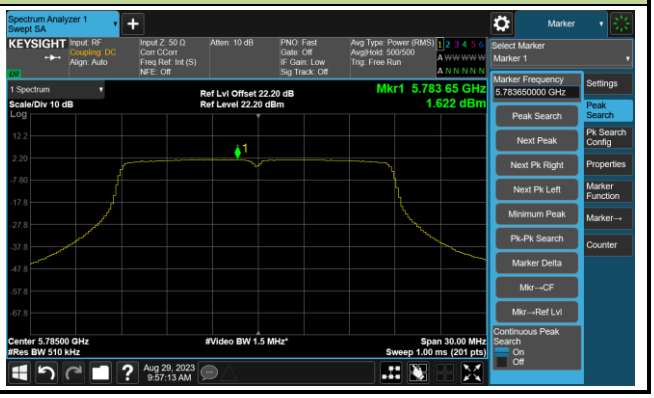
Note 2: PSD Limit (dBm/500kHz) = 30 - (17.0 - 6) = 19.00dBm/MHz.

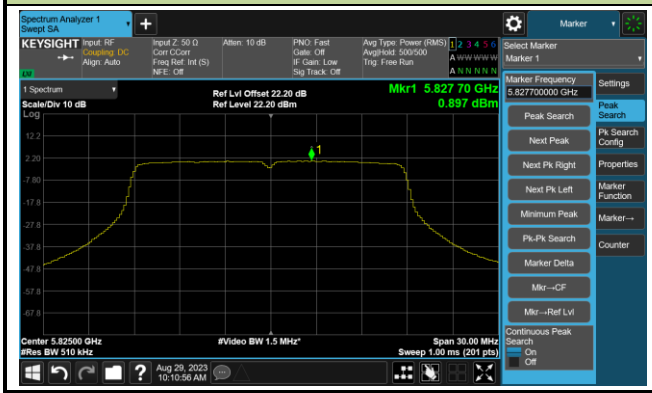
802.11a Power Spectral Density- Ant 0	
Channel 36 (5180MHz)	Channel 44 (5220MHz)
	
Channel 48 (5240MHz)	Channel 52 (5260MHz)
	
Channel 60 (5300MHz)	Channel 64 (5320MHz)
	

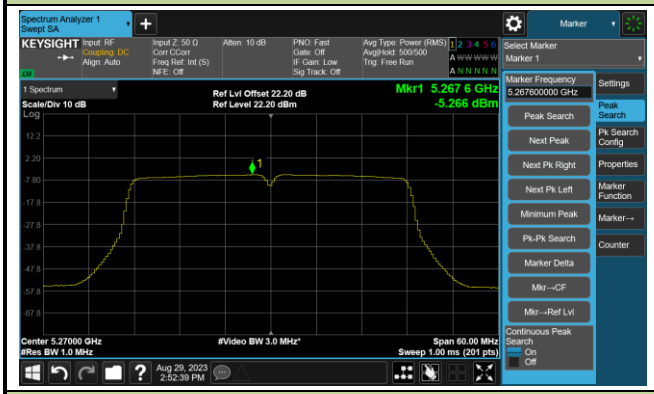
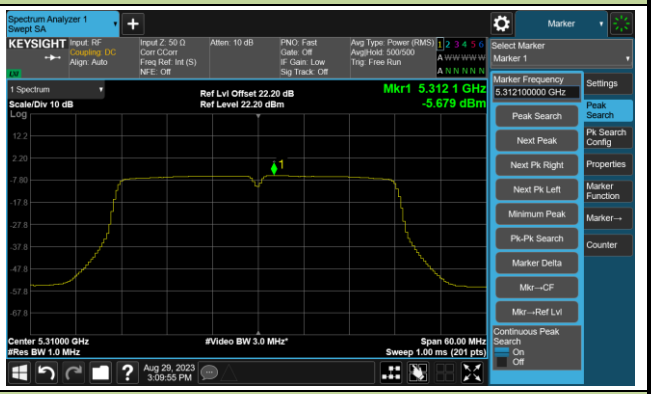
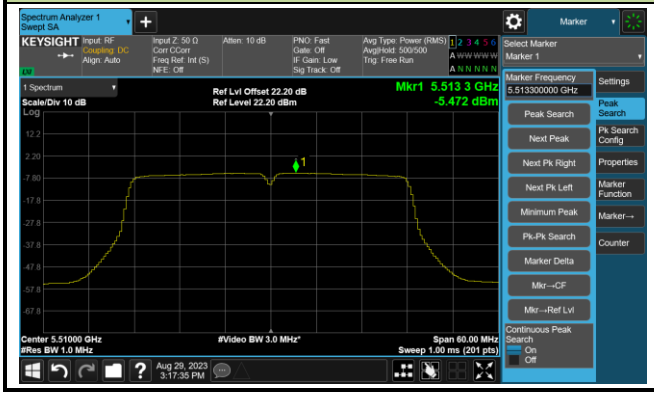
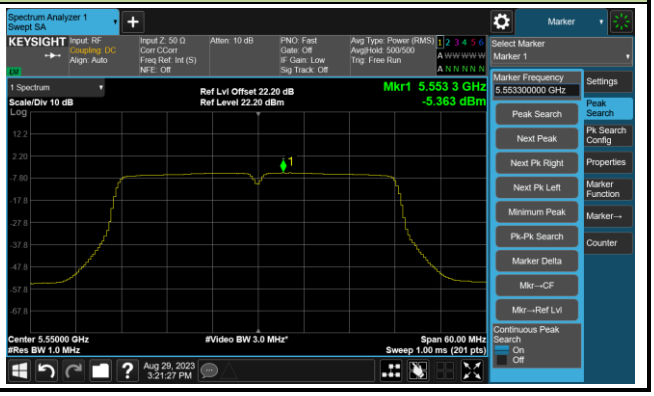
Channel 100 (5500MHz)	Channel 116 (5580MHz)
	
Channel 140 (5700MHz)	**Channel 144(5720MHz)**
	
Channel 149 (5745MHz)	**Channel 157 (5785MHz)**
	

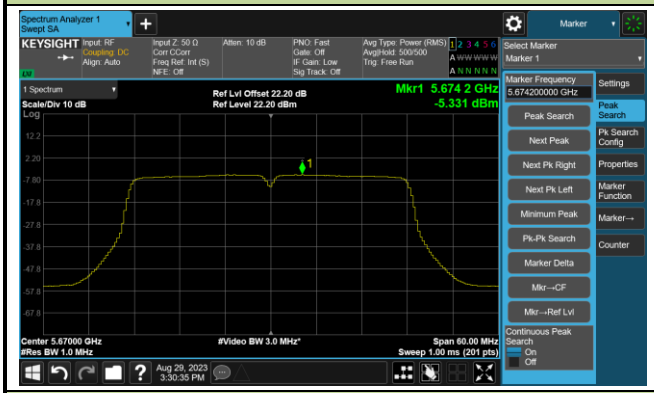
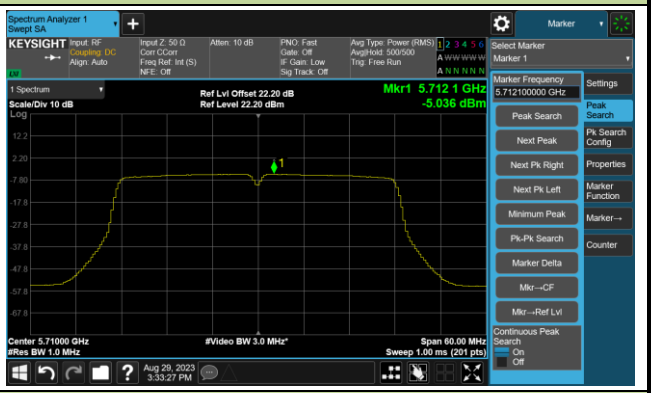
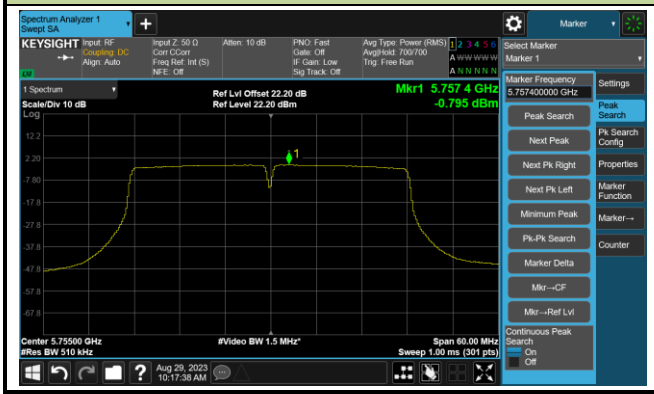
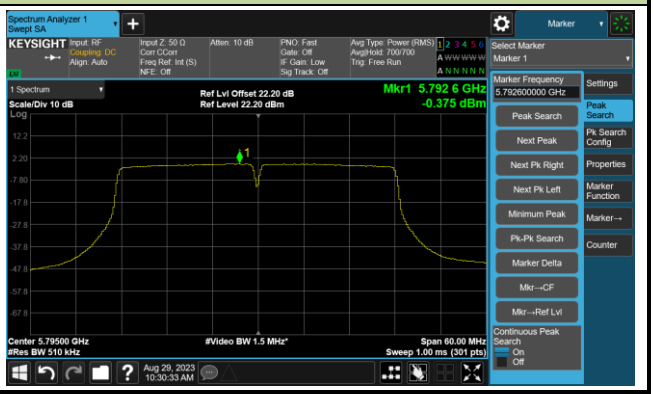
802.11a Power Spectral Density- Ant 0	
Channel 165 (5825MHz)	
	

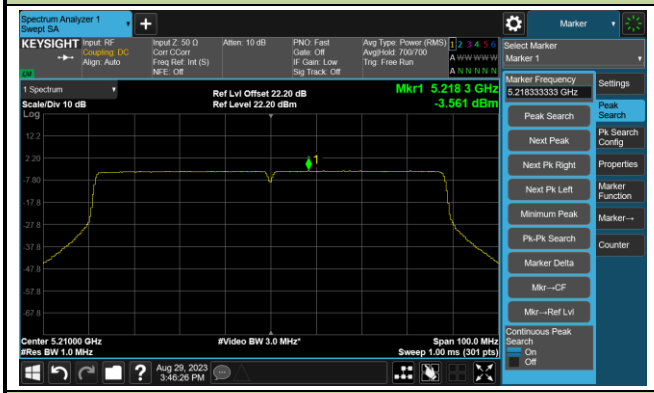
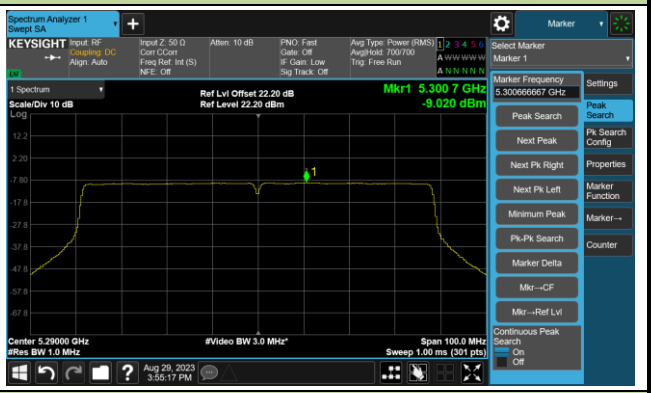
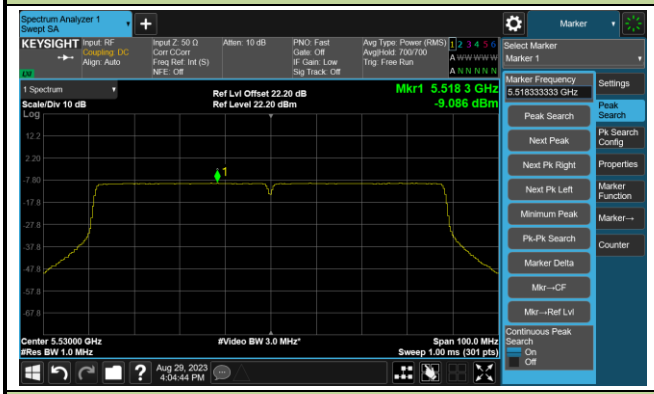
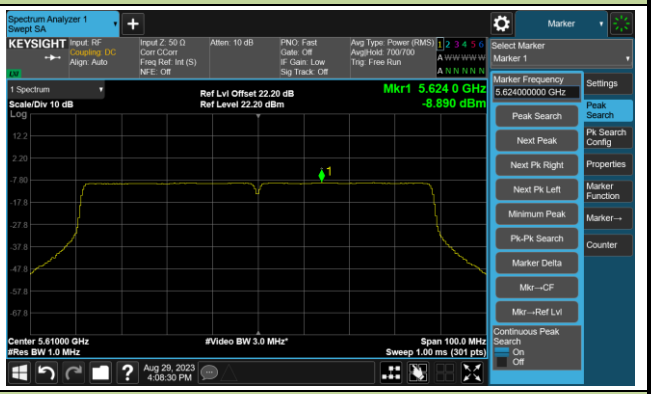
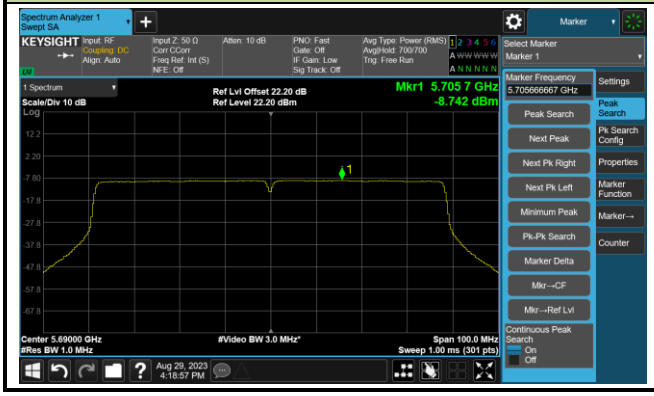
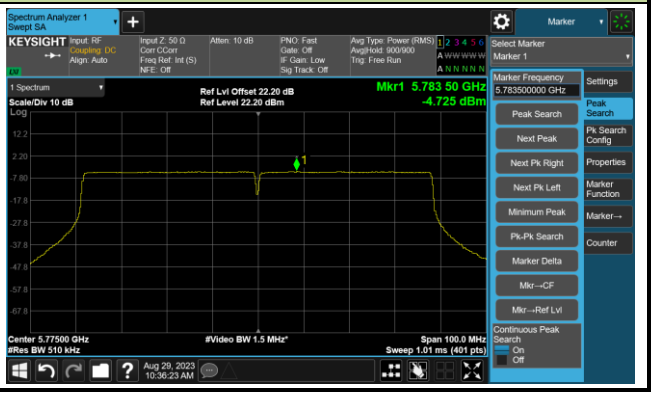
802.11ac-VHT20 Power Spectral Density- Ant 0	
Channel 36 (5180MHz)	Channel 44 (5220MHz)
	
Channel 48 (5240MHz)	Channel 52 (5260MHz)
	
Channel 60 (5300MHz)	Channel 64 (5320MHz)
	

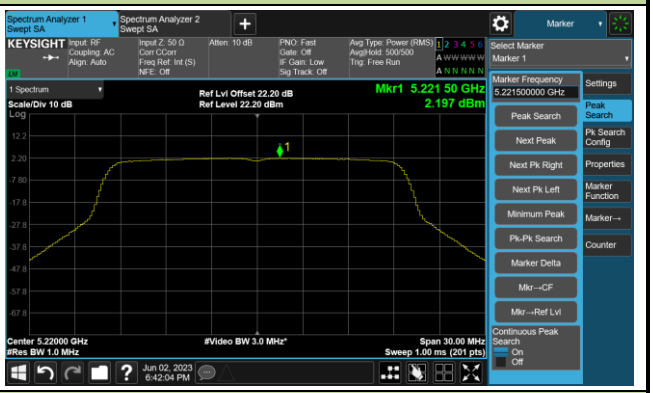
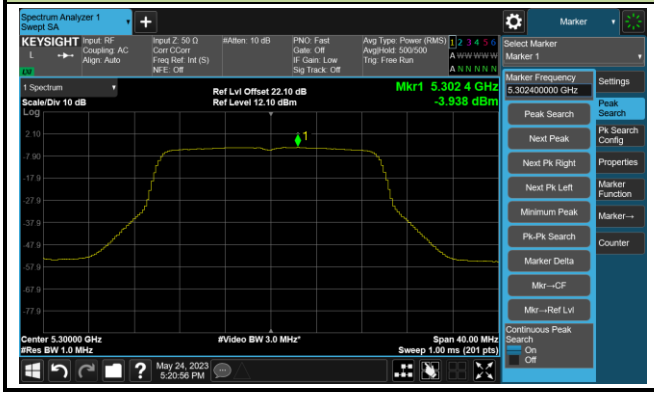
802.11ac-VHT20 Power Spectral Density- Ant 0	
Channel 100 (5500MHz)	Channel 116 (5580MHz)
	
Channel 140 (5700MHz)	Channel 144(5720MHz)
	
Channel 149 (5745MHz)	Channel 157 (5785MHz)
	

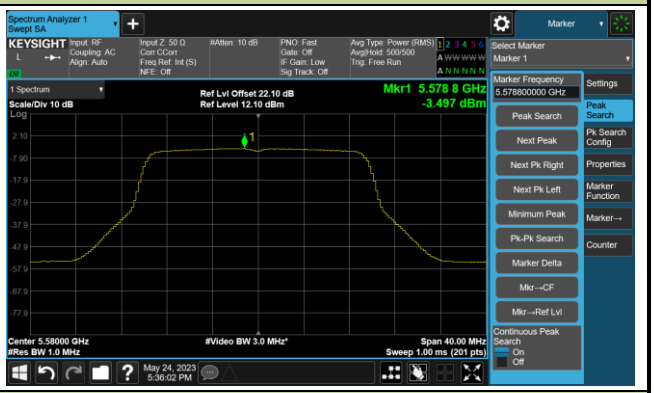
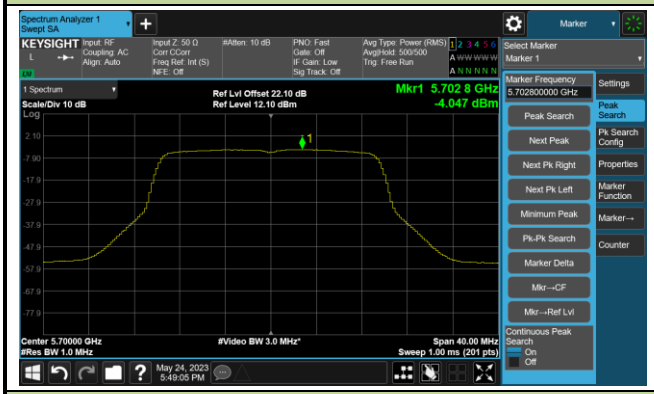
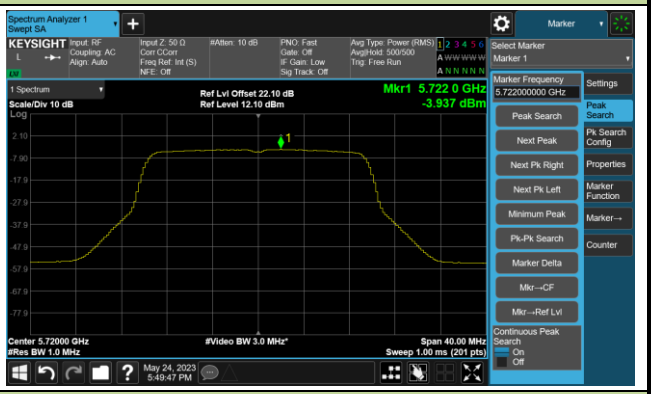
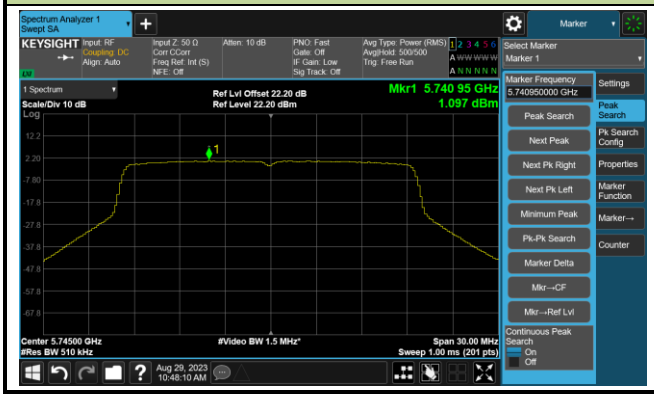
802.11ac-VHT20 Power Spectral Density- Ant 0	
Channel 165 (5825MHz)	
	

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)
	

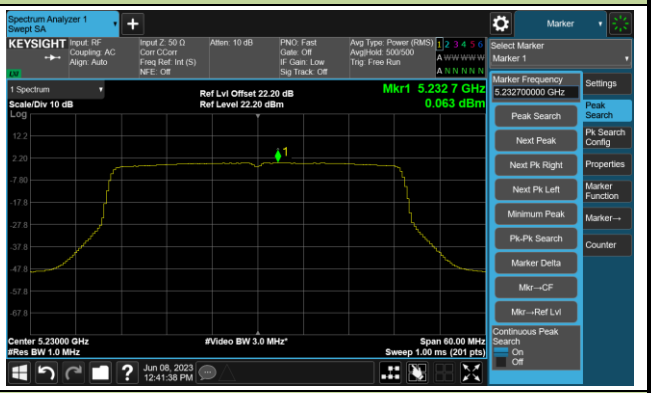
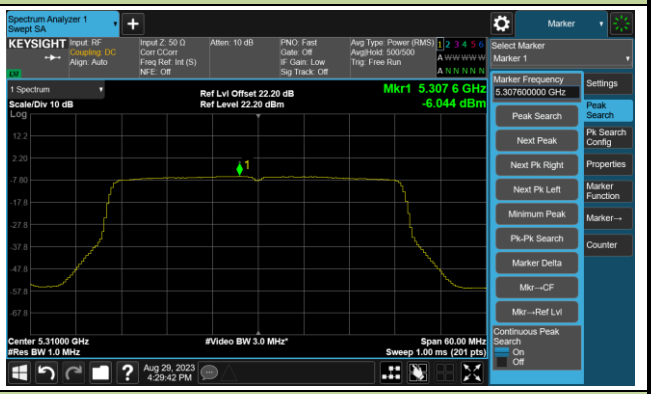
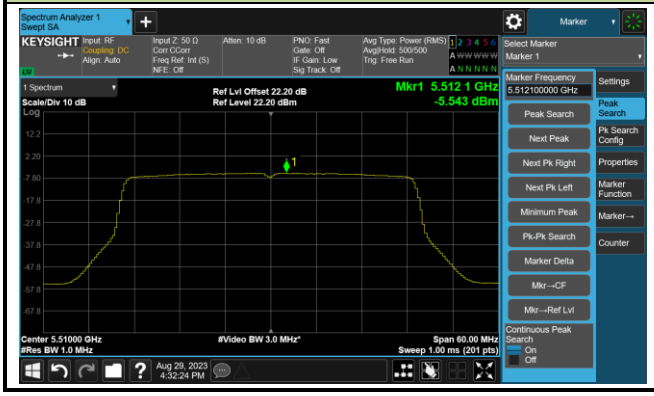
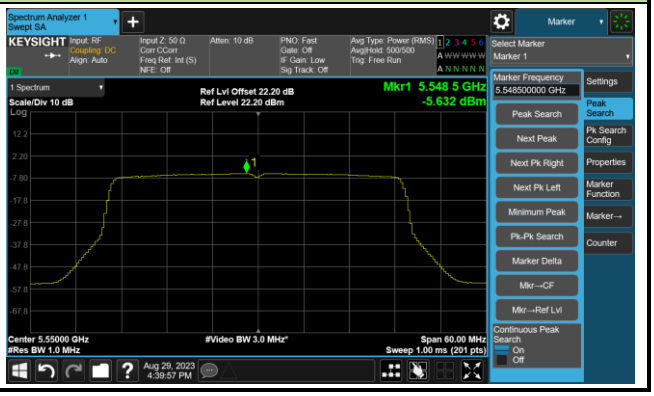
802.11ac-VHT40 Power Spectral Density- Ant 0	
Channel 134 (5670MHz)	Channel 142(5710MHz)
	
Channel 151 (5755MHz)	Channel 159 (5795MHz)
	

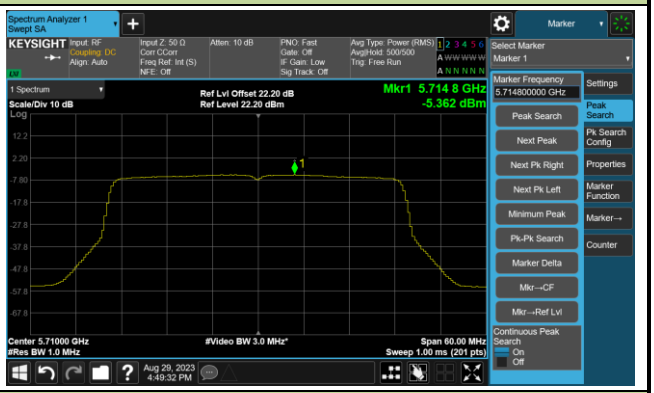
802.11ac-VHT80 Power Spectral Density- Ant 0	
Channel 42 (5210MHz)	Channel 58 (5290MHz)
	
Channel 106 (5530MHz)	Channel 122 (5610MHz)
	
Channel 138 (5690MHz)	Channel 155 (5775MHz)
	

802.11ax-HE20 Power Spectral Density- Ant 0	
Channel 36 (5180MHz)	Channel 44 (5220MHz)
	
Channel 48 (5240MHz)	Channel 52 (5260MHz)
	
Channel 60 (5300MHz)	Channel 64 (5320MHz)
	

802.11ax-HE20 Power Spectral Density- Ant 0	
Channel 100 (5500MHz)	Channel 116 (5580MHz)
	
Channel 140 (5700MHz)	Channel 144(5720MHz)
	
Channel 149 (5745MHz)	Channel 157 (5785MHz)
	

802.11ax-HE20 Power Spectral Density- Ant 0	
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)
	

802.11ax-HE40 Power Spectral Density- Ant 0	
Channel 134 (5670MHz)	Channel 142(5710MHz)
	
Channel 151 (5755MHz)	Channel 159 (5795MHz)