

802.11a Power Spectral Density - Ant 1

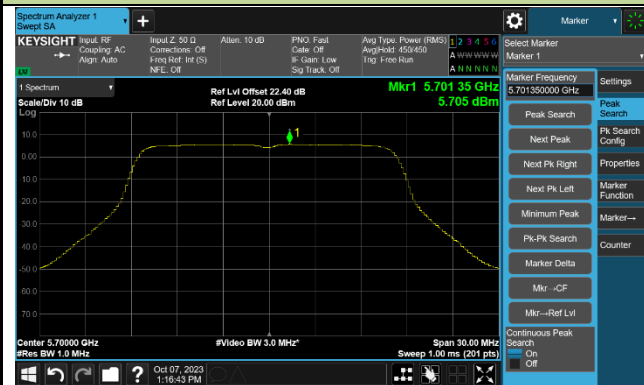
Channel 100 (5500MHz)



Channel 116 (5580MHz)



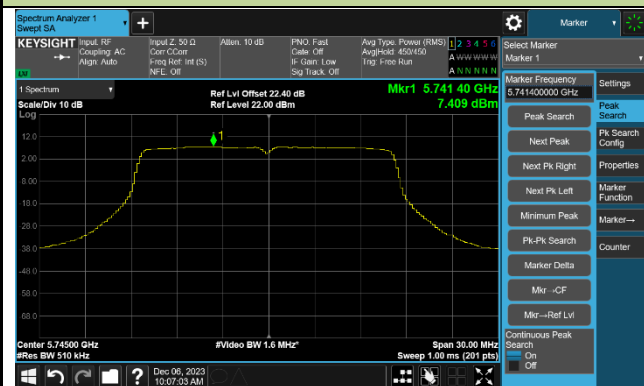
Channel 140 (5700MHz)



Channel 144 (5720MHz)



Channel 149 (5745MHz)



Channel 157 (5785MHz)



Channel 165 (5825MHz)



802.11ac-VHT20 Power Spectral Density - Ant 1

Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)



Channel 52 (5260MHz)



Channel 60 (5300MHz)

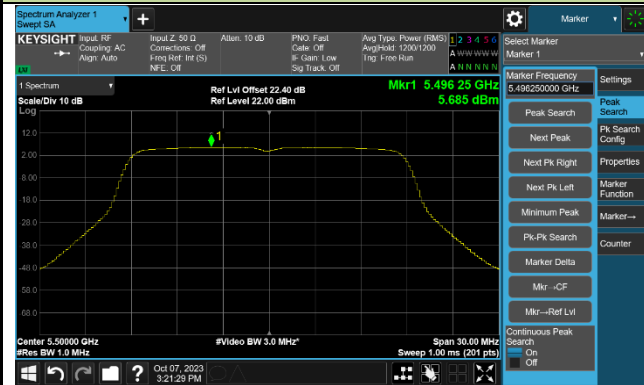


Channel 64 (5320MHz)



802.11ac-VHT20 Power Spectral Density - Ant 1

Channel 100 (5500MHz)



Channel 116 (5580MHz)



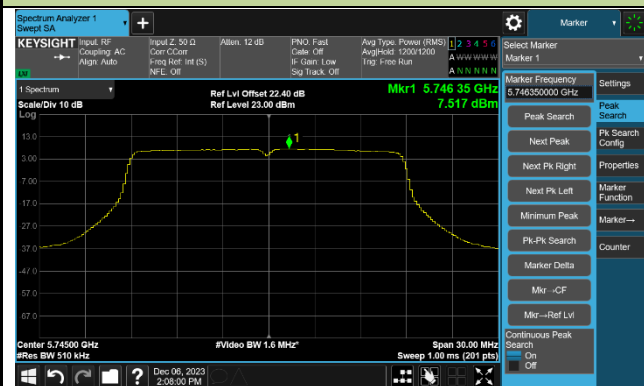
Channel 140 (5700MHz)



Channel 144 (5720MHz)



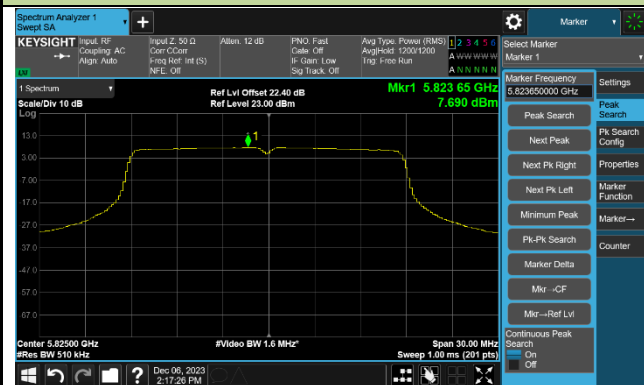
Channel 149 (5745MHz)



Channel 157 (5785MHz)

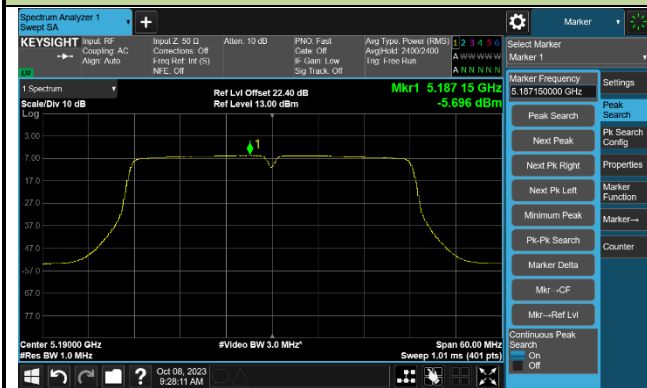


Channel 165 (5825MHz)



802.11ac-VHT40 Power Spectral Density - Ant 1

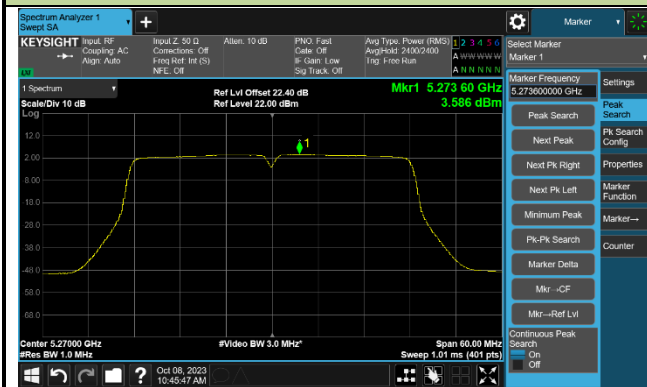
Channel 38 (5190MHz)



Channel 46 (5230MHz)



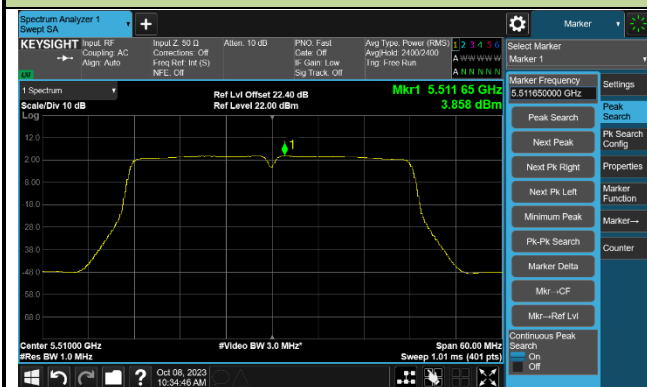
Channel 54 (5270MHz)



Channel 62 (5310MHz)



Channel 102 (5510MHz)

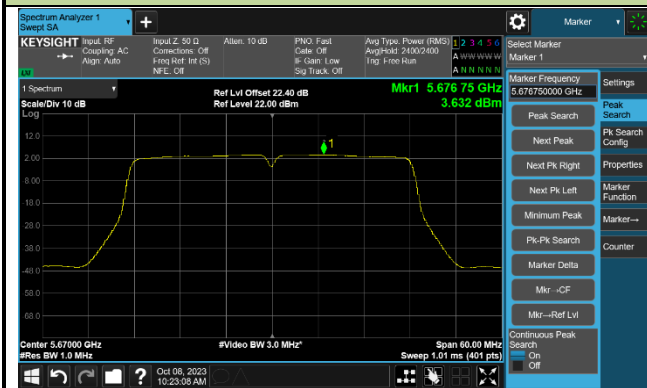


Channel 110 (5550MHz)

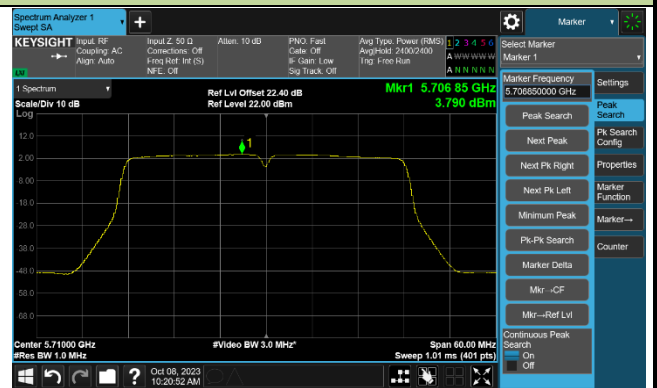


802.11ac-VHT40 Power Spectral Density - Ant 1

Channel 134 (5670MHz)



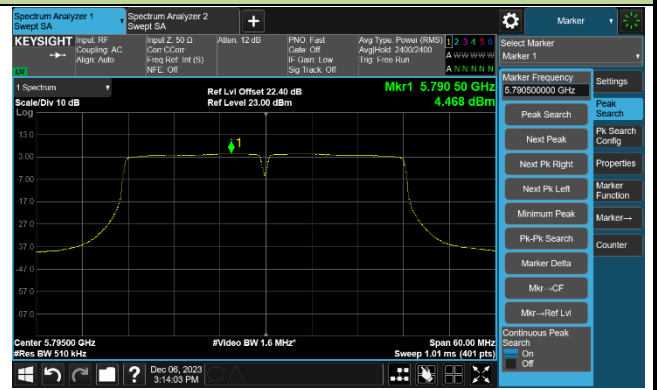
Channel 142 (5710MHz)



Channel 151 (5755MHz)

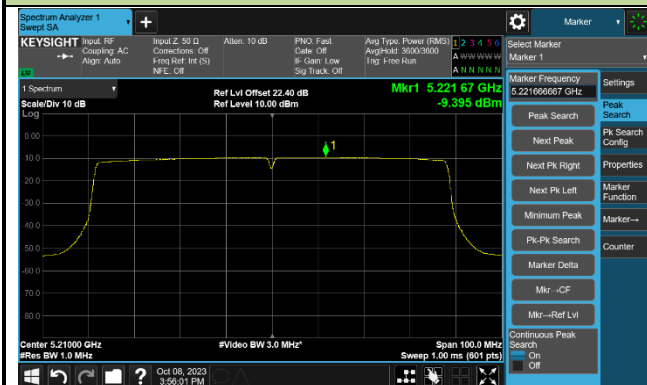


Channel 159 (5795MHz)



802.11ac-VHT80 Power Spectral Density - Ant 1

Channel 42 (5210MHz)



Channel 58 (5290MHz)



Channel 106 (5530MHz)



Channel 122 (5610MHz)



Channel 138 (5690MHz)

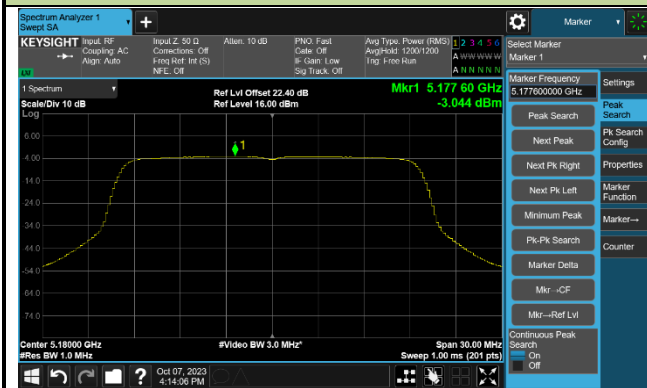


Channel 155 (5775MHz)



802.11ax-HE20 Power Spectral Density - Ant 1

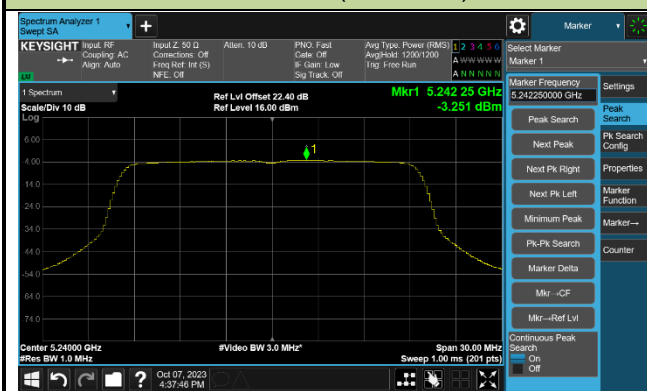
Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)



Channel 52 (5260MHz)



Channel 60 (5300MHz)

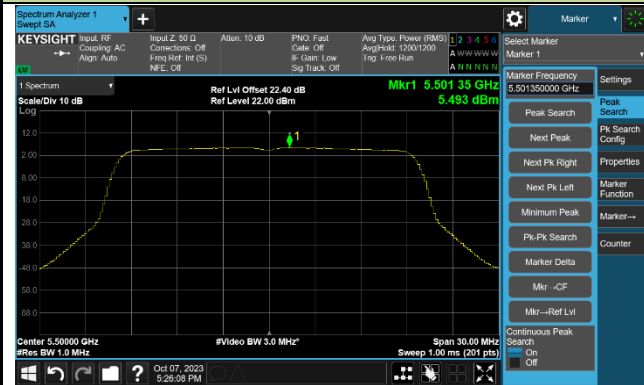


Channel 64 (5320MHz)



802.11ax-HE20 Power Spectral Density - Ant 1

Channel 100 (5500MHz)



Channel 116 (5580MHz)



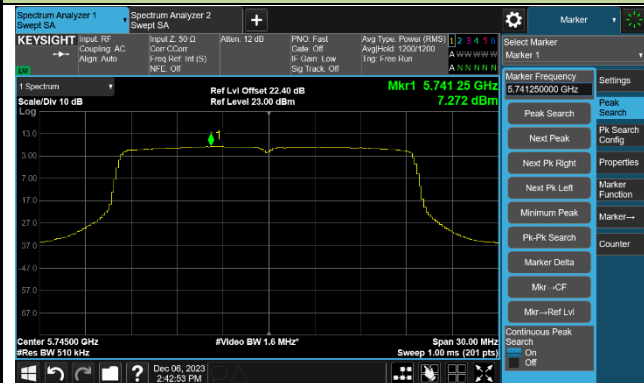
Channel 140 (5700MHz)



Channel 144 (5720MHz)



Channel 149 (5745MHz)



Channel 157 (5785MHz)

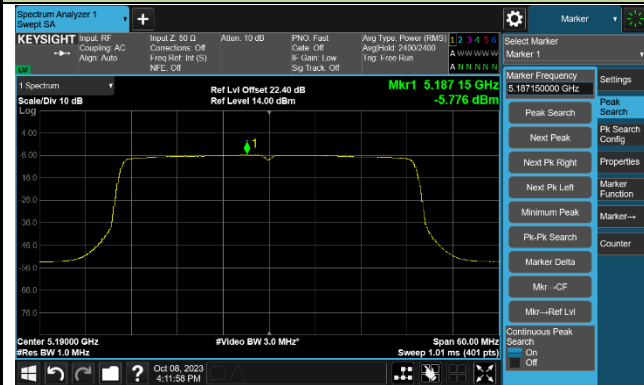


Channel 165 (5825MHz)



802.11ax-HE40 Power Spectral Density - Ant 1

Channel 38 (5190MHz)



Channel 46 (5230MHz)



Channel 54 (5270MHz)



Channel 62 (5310MHz)



Channel 102 (5510MHz)

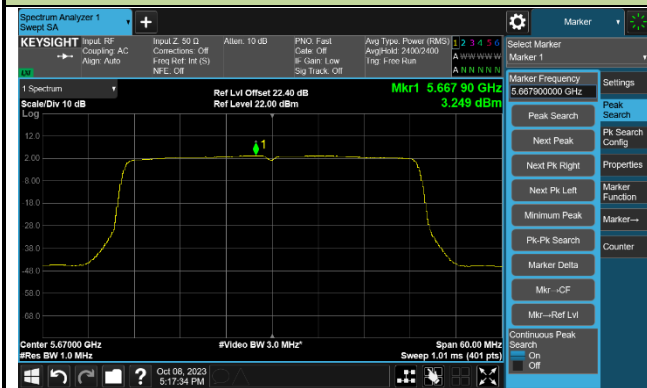


Channel 110 (5550MHz)



802.11ax-HE40 Power Spectral Density - Ant 1

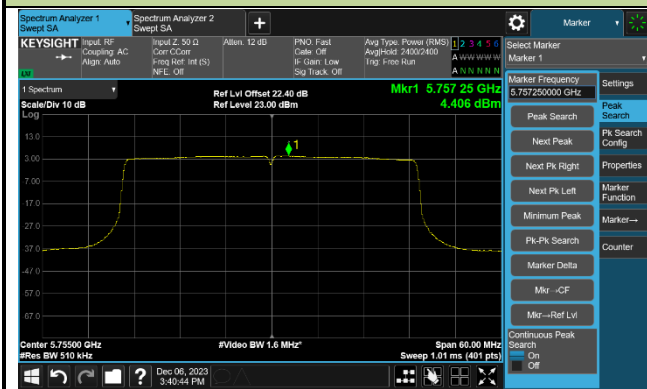
Channel 134 (5670MHz)



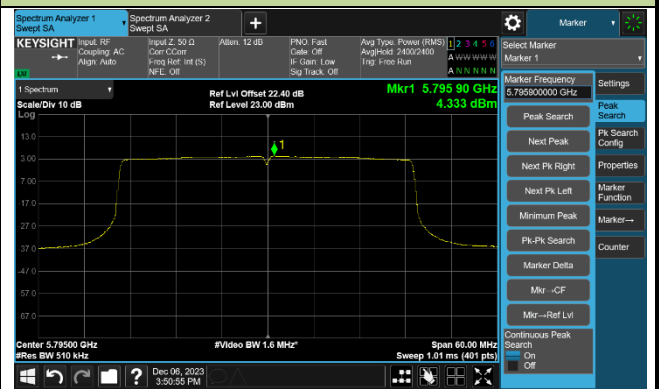
Channel 142 (5710MHz)



Channel 151 (5755MHz)

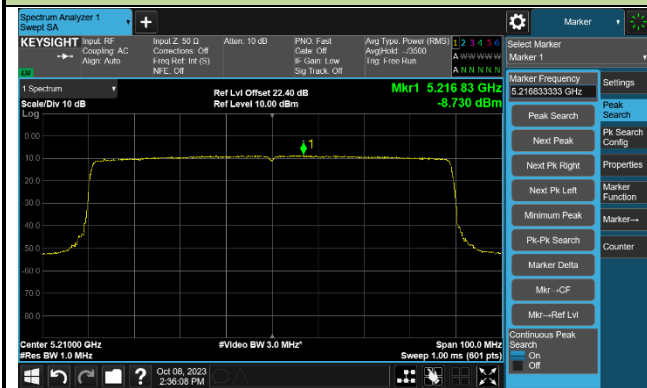


Channel 159 (5795MHz)



802.11ax-HE80 Power Spectral Density - Ant 1

Channel 42 (5210MHz)



Channel 58 (5290MHz)



Channel 106 (5530MHz)



Channel 122 (5610MHz)



Channel 138 (5690MHz)



Channel 155 (5775MHz)



Test Site	SR5	Test Engineer	Lynn Yang
Test Date	2023-10-09~2023-12-06	Frequency Band	UNII-1 & 2A & 2C
Antenna Status	Switch Off		

Test Mode	Data Rate /MCS	Ch. No.	Freq. (MHz)	PSD (dBm/MHz)		Duty Cycle (%)	Total PSD (dBm/ MHz)	Limit (dBm/ MHz)	Result
				Ant 0	Ant 1				
11a	6Mbps	36	5180	-5.682	-4.966	92.01	-1.937	≤ 12.50	Pass
11a	6Mbps	44	5220	-5.492	-5.204	92.01	-1.974	≤ 12.50	Pass
11a	6Mbps	48	5240	-5.739	-5.099	92.01	-2.035	≤ 12.50	Pass
11a	6Mbps	52	5260	2.199	2.827	92.01	5.896	≤ 6.50	Pass
11a	6Mbps	60	5300	2.316	2.790	92.01	5.931	≤ 6.50	Pass
11a	6Mbps	64	5320	2.110	2.572	92.01	5.719	≤ 6.50	Pass
11a	6Mbps	100	5500	2.115	2.642	92.01	5.758	≤ 6.50	Pass
11a	6Mbps	116	5580	2.287	2.955	92.01	6.006	≤ 6.50	Pass
11a	6Mbps	140	5700	2.306	2.953	92.01	6.013	≤ 6.50	Pass
11a	6Mbps	144	5720	2.176	2.729	92.01	5.833	≤ 6.50	Pass
11ac-VHT20	MCS0	36	5180	-5.151	-4.989	94.10	-1.795	≤ 12.50	Pass
11ac-VHT20	MCS0	44	5220	-5.466	-5.320	94.10	-2.118	≤ 12.50	Pass
11ac-VHT20	MCS0	48	5240	-6.584	-5.792	94.10	-2.896	≤ 12.50	Pass
11ac-VHT20	MCS0	52	5260	2.247	2.721	94.10	5.765	≤ 6.50	Pass
11ac-VHT20	MCS0	60	5300	2.470	2.835	94.10	5.931	≤ 6.50	Pass
11ac-VHT20	MCS0	64	5320	2.386	2.735	94.10	5.838	≤ 6.50	Pass
11ac-VHT20	MCS0	100	5500	2.514	2.662	94.10	5.863	≤ 6.50	Pass
11ac-VHT20	MCS0	116	5580	2.251	2.947	94.10	5.887	≤ 6.50	Pass
11ac-VHT20	MCS0	140	5700	2.193	2.982	94.10	5.880	≤ 6.50	Pass
11ac-VHT20	MCS0	144	5720	2.158	3.075	94.10	5.915	≤ 6.50	Pass
11ac-VHT40	MCS0	38	5190	-8.564	-8.601	92.51	-5.234	≤ 12.50	Pass
11ac-VHT40	MCS0	46	5230	-8.168	-8.295	92.51	-4.883	≤ 12.50	Pass
11ac-VHT40	MCS0	54	5270	1.295	1.376	92.51	4.684	≤ 6.50	Pass
11ac-VHT40	MCS0	62	5310	1.205	1.320	92.51	4.611	≤ 6.50	Pass
11ac-VHT40	MCS0	102	5510	1.201	1.315	92.51	4.607	≤ 6.50	Pass
11ac-VHT40	MCS0	110	5550	0.988	1.119	92.51	4.402	≤ 6.50	Pass
11ac-VHT40	MCS0	134	5670	0.808	0.746	92.51	4.126	≤ 6.50	Pass
11ac-VHT40	MCS0	142	5710	0.953	1.695	92.51	4.688	≤ 6.50	Pass

Test Mode	Data Rate /MCS	Ch. No.	Freq. (MHz)	PSD (dBm/MHz)		Duty Cycle (%)	Total PSD (dBm/ MHz)	Limit (dBm/ MHz)	Result
				Ant 0	Ant 1				
11ac-VHT80	MCS0	42	5210	-11.795	-12.202	91.65	-8.605	≤ 12.50	Pass
11ac-VHT80	MCS0	58	5290	-2.457	-2.272	91.65	1.025	≤ 6.50	Pass
11ac-VHT80	MCS0	106	5530	-2.605	-2.494	91.65	0.840	≤ 6.50	Pass
11ac-VHT80	MCS0	122	5610	-2.534	-2.473	91.65	0.886	≤ 6.50	Pass
11ac-VHT80	MCS0	138	5690	-2.293	-2.252	91.65	1.117	≤ 6.50	Pass
11ax-HE20	MCS0	36	5180	-5.673	-5.559	93.95	-2.334	≤ 12.50	Pass
11ax-HE20	MCS0	44	5220	-6.041	-5.962	93.95	-2.720	≤ 12.50	Pass
11ax-HE20	MCS0	48	5240	-5.855	-5.823	93.95	-2.558	≤ 12.50	Pass
11ax-HE20	MCS0	52	5260	2.545	2.462	93.95	5.785	≤ 6.50	Pass
11ax-HE20	MCS0	60	5300	2.700	2.869	93.95	6.067	≤ 6.50	Pass
11ax-HE20	MCS0	64	5320	2.536	2.782	93.95	5.942	≤ 6.50	Pass
11ax-HE20	MCS0	100	5500	2.649	2.679	93.95	5.945	≤ 6.50	Pass
11ax-HE20	MCS0	116	5580	2.699	2.976	93.95	6.121	≤ 6.50	Pass
11ax-HE20	MCS0	140	5700	2.596	2.831	93.95	5.996	≤ 6.50	Pass
11ax-HE20	MCS0	144	5720	2.310	2.776	93.95	5.831	≤ 6.50	Pass
11ax-HE40	MCS0	38	5190	-8.907	-8.921	94.76	-5.670	≤ 12.50	Pass
11ax-HE40	MCS0	46	5230	-8.413	-8.480	94.76	-5.202	≤ 12.50	Pass
11ax-HE40	MCS0	54	5270	0.607	0.649	94.76	3.872	≤ 6.50	Pass
11ax-HE40	MCS0	62	5310	0.970	1.193	94.76	4.327	≤ 6.50	Pass
11ax-HE40	MCS0	102	5510	0.496	0.508	94.76	3.746	≤ 6.50	Pass
11ax-HE40	MCS0	110	5550	0.108	0.395	94.76	3.498	≤ 6.50	Pass
11ax-HE40	MCS0	134	5670	0.132	0.096	94.76	3.358	≤ 6.50	Pass
11ax-HE40	MCS0	142	5710	0.235	0.840	94.76	3.792	≤ 6.50	Pass
11ax-HE80	MCS0	42	5210	-11.870	-12.038	94.78	-8.710	≤ 12.50	Pass
11ax-HE80	MCS0	58	5290	-2.054	-2.139	94.78	1.147	≤ 6.50	Pass
11ax-HE80	MCS0	106	5530	-2.365	-2.386	94.78	0.868	≤ 6.50	Pass
11ax-HE80	MCS0	122	5610	-2.466	-2.292	94.78	0.865	≤ 6.50	Pass
11ax-HE80	MCS0	138	5690	-2.279	-2.012	94.78	1.100	≤ 6.50	Pass

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

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

Test Site	SR5	Test Engineer	Lynn Yang
Test Date	2023-10-09~2023-12-06	Frequency Band	UNII-3
Antenna Status	Switch Off		

Test Mode	Data Rate/ MCS	Ch. No.	Freq. (MHz)	PSD (dBm/510kHz)		Duty Cycle (%)	Total PSD (dBm/510kHz)	Limit (dBm/500kHz)	Result
				Ant 0	Ant 1				
11a	6Mbps	149	5745	6.861	7.295	92.01	10.455	≤ 25.50	Pass
11a	6Mbps	157	5785	7.417	6.885	92.01	10.531	≤ 25.50	Pass
11a	6Mbps	165	5825	7.776	7.197	92.01	10.868	≤ 25.50	Pass
11ac-VHT20	MCS0	149	5745	7.270	6.982	94.10	10.403	≤ 25.50	Pass
11ac-VHT20	MCS0	157	5785	6.702	6.531	94.10	9.892	≤ 25.50	Pass
11ac-VHT20	MCS0	165	5825	7.151	6.887	94.10	10.295	≤ 25.50	Pass
11ac-VHT40	MCS0	151	5755	3.909	3.601	92.51	7.106	≤ 25.50	Pass
11ac-VHT40	MCS0	159	5795	4.180	3.547	92.51	7.223	≤ 25.50	Pass
11ac-VHT80	MCS0	155	5775	-0.624	-1.094	91.65	2.536	≤ 25.50	Pass
11ax-HE20	MCS0	149	5745	7.059	6.708	93.95	10.168	≤ 25.50	Pass
11ax-HE20	MCS0	157	5785	7.043	6.735	93.95	10.173	≤ 25.50	Pass
11ax-HE20	MCS0	165	5825	6.966	6.511	93.95	10.026	≤ 25.50	Pass
11ax-HE40	MCS0	151	5755	3.678	3.440	94.76	6.805	≤ 25.50	Pass
11ax-HE40	MCS0	159	5795	3.892	3.461	94.76	6.926	≤ 25.50	Pass
11ax-HE80	MCS0	155	5775	0.046	-0.014	94.78	3.259	≤ 25.50	Pass

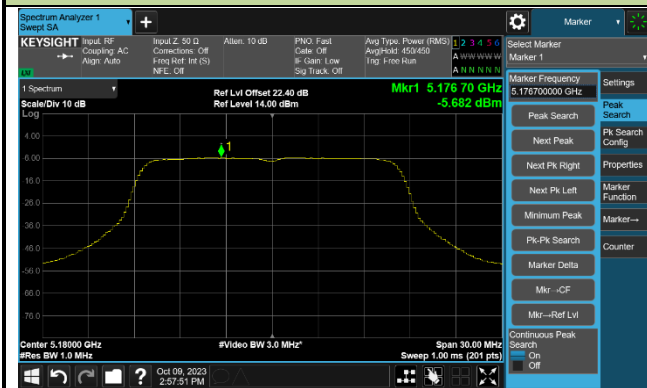
Note 1: When EUT duty cycle ≥ 98%, Total PSD (dBm/510kHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$ (dBm/510kHz)

When EUT duty cycle < 98%, 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 - (10.5 - 6) = 25.50dBm/MHz.

802.11a Power Spectral Density - Ant 0

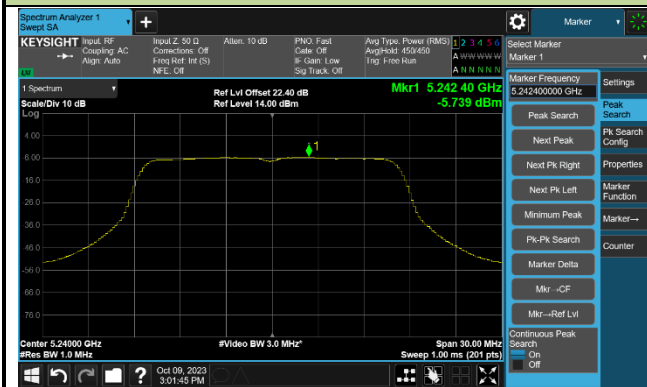
Channel 36 (5180MHz)



Channel 44 (5220MHz)



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802.11a Power Spectral Density - Ant 0

Channel 100 (5500MHz)



Channel 116 (5580MHz)



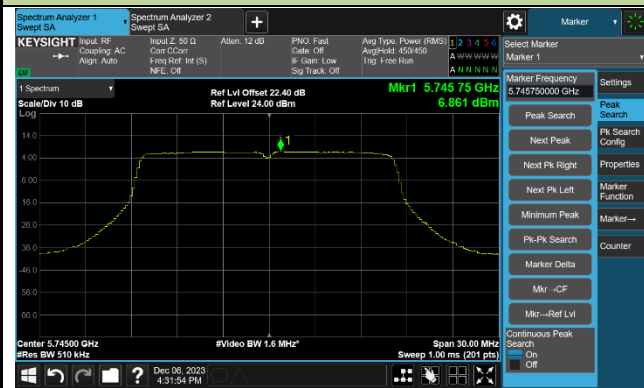
Channel 140 (5700MHz)



Channel 144 (5720MHz)



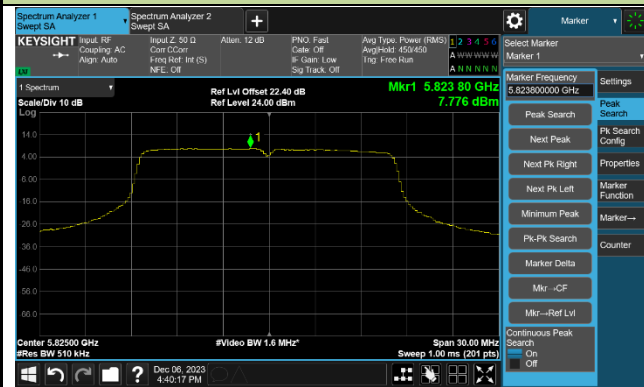
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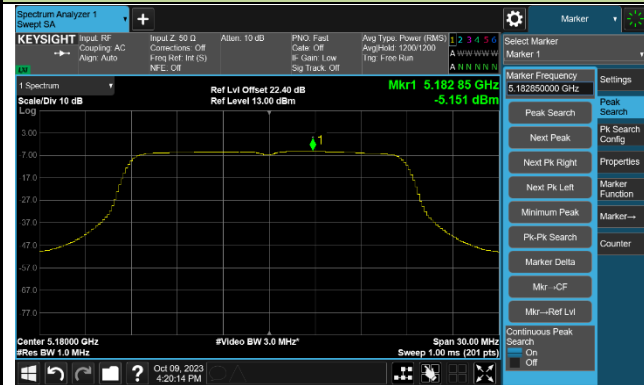


Channel 165 (5825MHz)



802.11ac-VHT20 Power Spectral Density - Ant 0

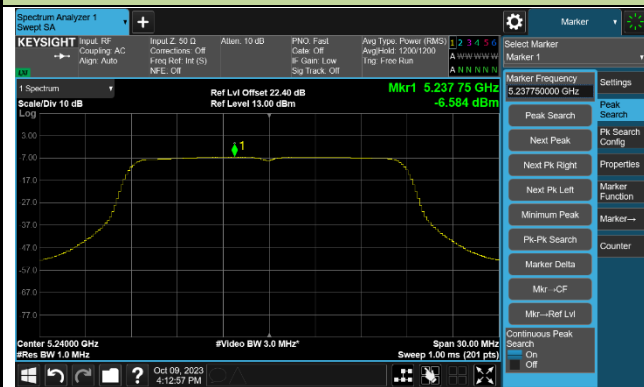
Channel 36 (5180MHz)



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Channel 64 (5320MHz)

