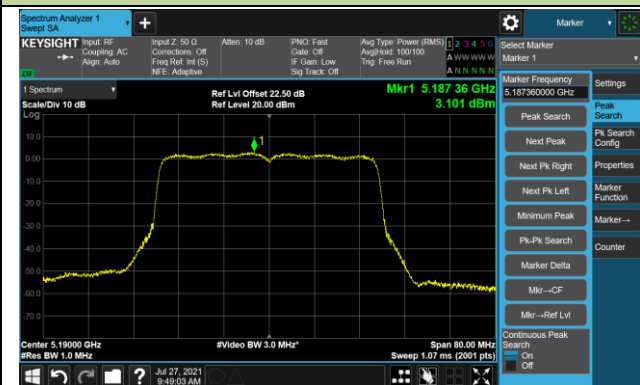
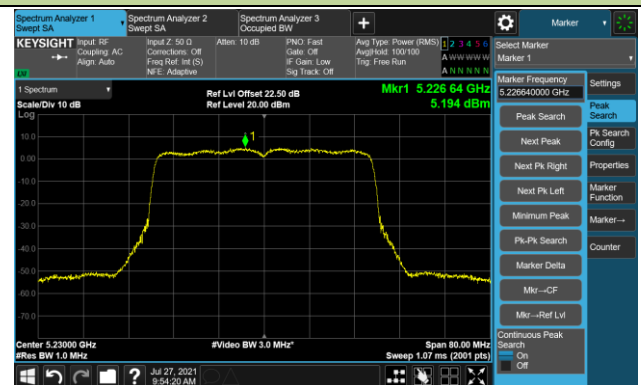


802.11ax-HE40 Power Spectral Density - Ant 3

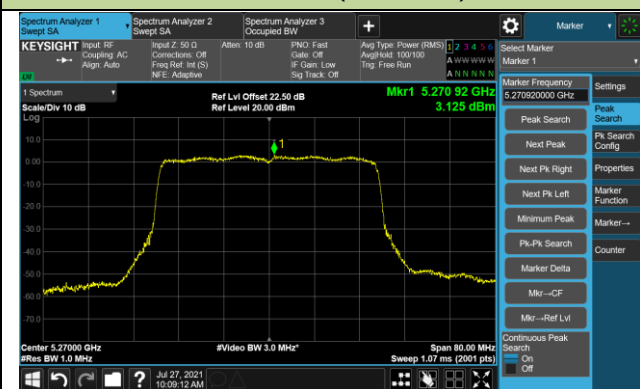
Channel 38 (5190MHz)



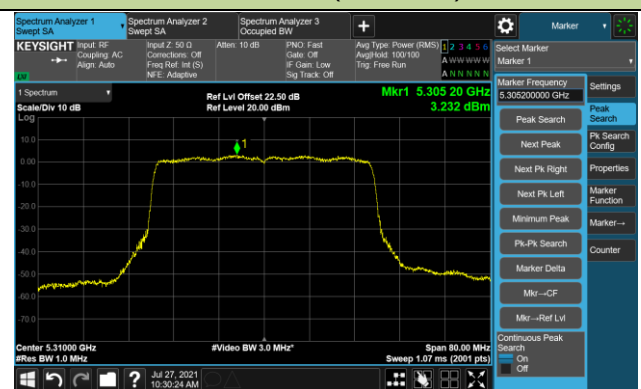
Channel 46 (5230MHz)



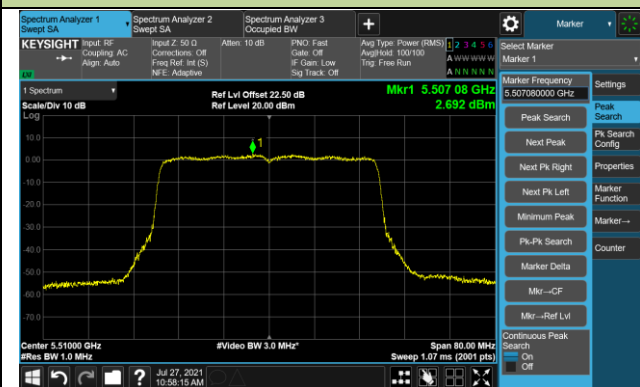
Channel 54 (5270MHz)



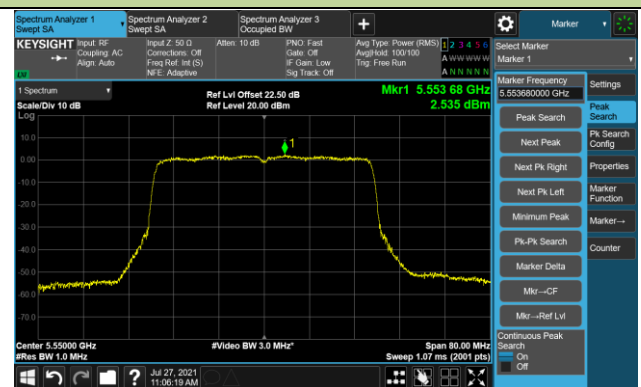
Channel 62 (5310MHz)



Channel 102 (5510MHz)

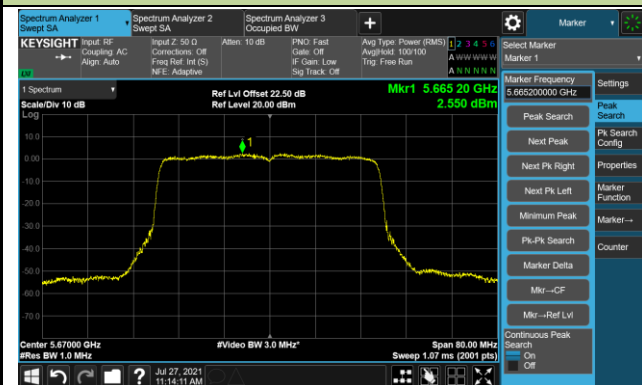


Channel 110 (5550MHz)

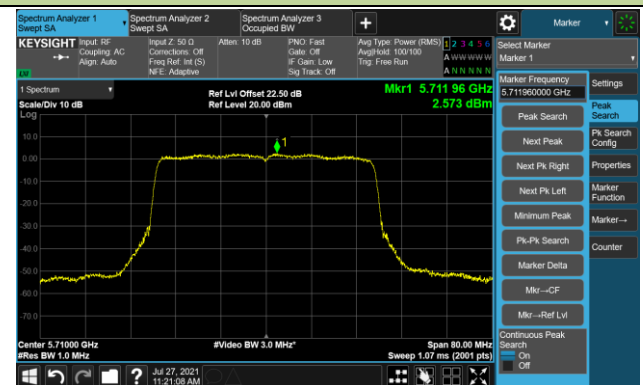


802.11ax-HE40 Power Spectral Density - Ant 3

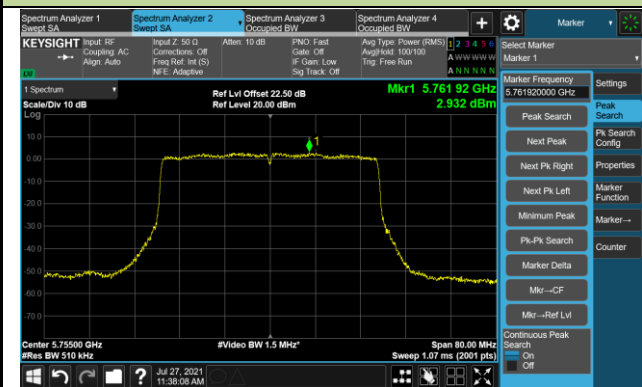
Channel 134 (5670MHz)



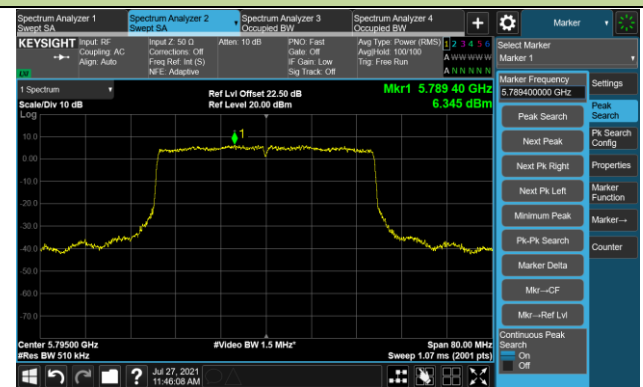
Channel 142 (5710MHz)



Channel 151 (5755MHz)

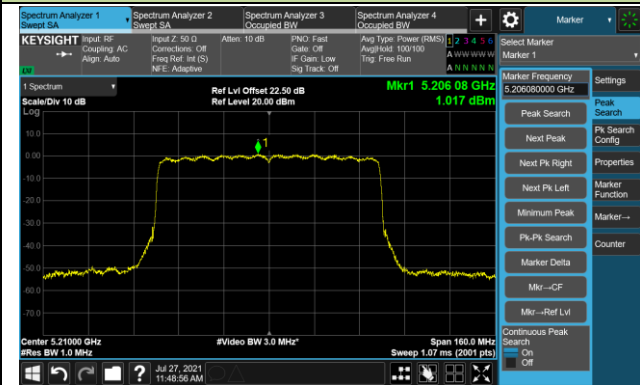


Channel 159 (5795MHz)

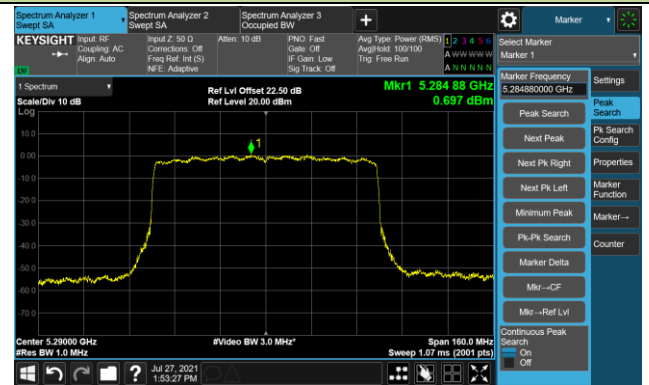


802.11ax-HE80 Power Spectral Density - Ant 3

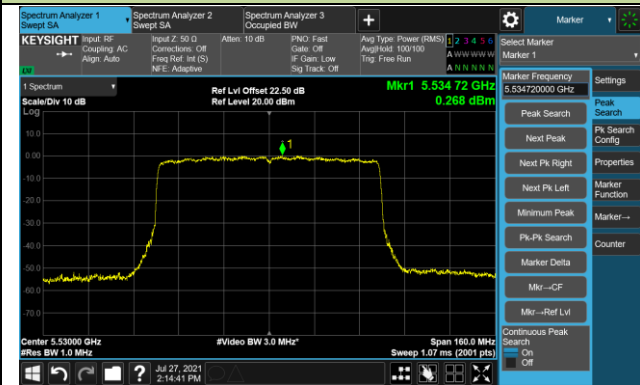
Channel 42 (5210MHz)



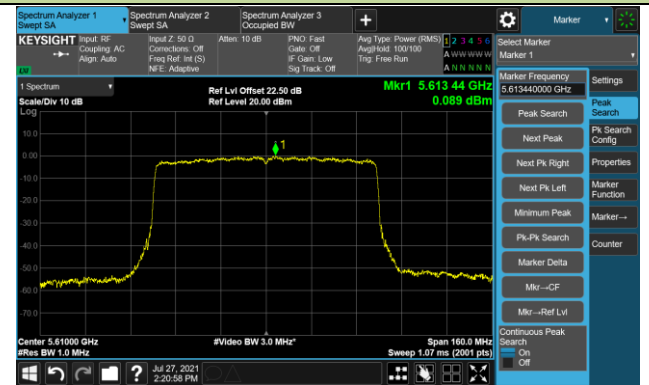
Channel 58 (5290MHz)



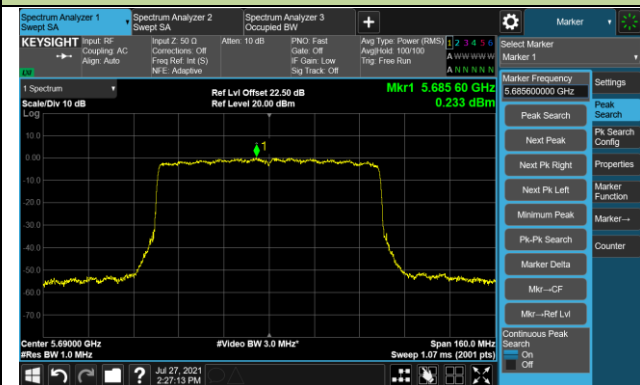
Channel 106 (5530MHz)



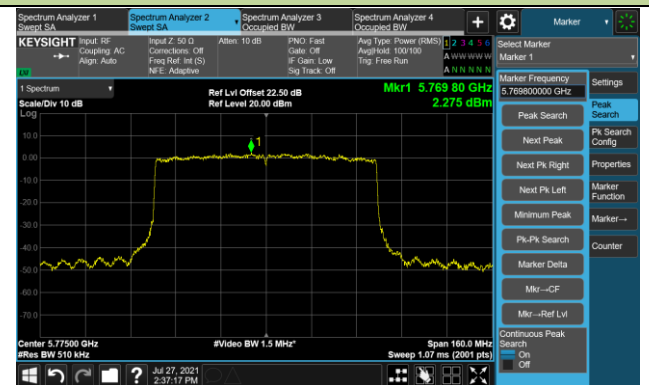
Channel 122 (5610MHz)



Channel 138 (5690MHz)



Channel 155 (5775MHz)



802.11ac-VHT80+80 Power Spectral Density

Channel 42 + 58 (5210MHz + 5290MHz) - Ant 0



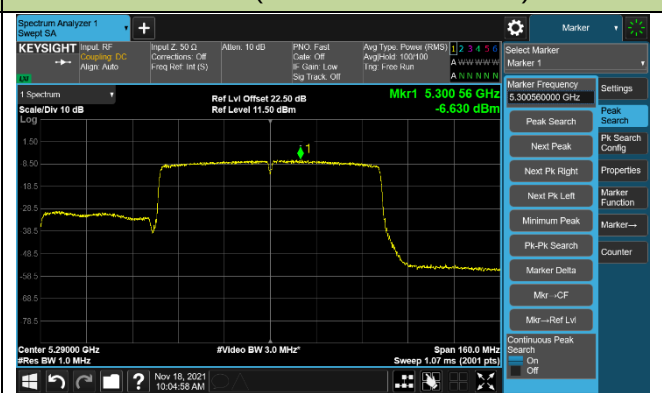
Channel 42 + 58 (5210MHz + 5290MHz) - Ant 1



Channel 42 + 58 (5210MHz + 5290MHz) - Ant 2

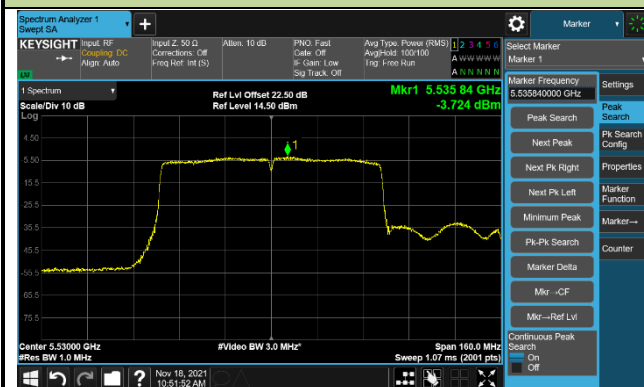


Channel 42 + 58 (5210MHz + 5290MHz) - Ant 3



802.11ac-VHT80+80 Power Spectral Density

Channel 106 + 122 (5530MHz + 5610MHz) - Ant 0



Channel 106 + 122 (5530MHz + 5610MHz) - Ant 1



Channel 106 + 122 (5530MHz + 5610MHz) - Ant 2



Channel 106 + 122 (5530MHz + 5610MHz) - Ant 3



802.11ax-HE80+80 Power Spectral Density

Channel 42 + 58 (5210MHz + 5290MHz) - Ant 0



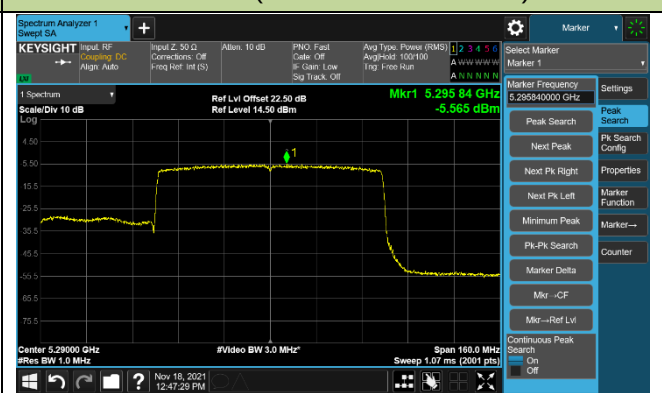
Channel 42 + 58 (5210MHz + 5290MHz) - Ant 1



Channel 42 + 58 (5210MHz + 5290MHz) - Ant 2

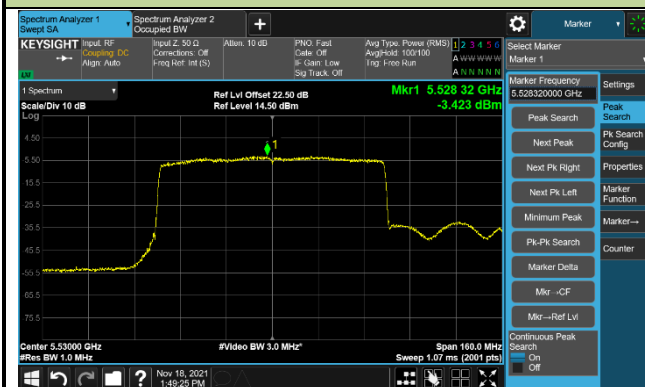


Channel 42 + 58 (5210MHz + 5290MHz) - Ant 3

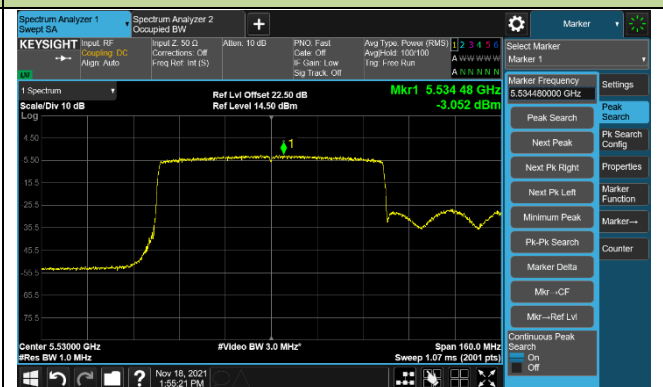


802.11ax-HE80+80 Power Spectral Density

Channel 106 + 122 (5530MHz + 5610MHz) - Ant 0



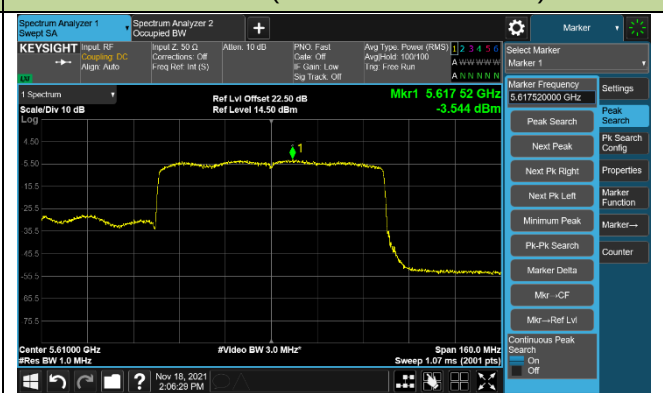
Channel 106 + 122 (5530MHz + 5610MHz) - Ant 1



Channel 106 + 122 (5530MHz + 5610MHz) - Ant 2



Channel 106 + 122 (5530MHz + 5610MHz) - Ant 3



Product	ACCESS POINT	Temperature	23 ~ 25°C
Test Engineer	Eric Lin	Relative Humidity	40 ~ 56%
Test Site	SR2	Test Date	2021/07/25~2021/11/18
Model No.	APEX0587 (UNII-1 & UNII-2A & UNII-2C)		

Test Mode	Data Rate /MCS	Ch. No.	Freq. (MHz)	PSD (dBm/MHz)				Duty Cycle (%)	Total PSD (dBm/ MHz)	PSD Limit (dBm/ MHz)	Result
				Ant 0	Ant 1	Ant 2	Ant 3				
11a	6Mbps	36	5180	-1.83	-1.46	-2.01	-1.37	96.34	4.52	≤ 14.79	Pass
11a	6Mbps	44	5220	-0.94	-1.80	-1.44	-1.29	96.34	4.83	≤ 14.79	Pass
11a	6Mbps	48	5240	-1.47	-1.31	-2.50	-1.21	96.34	4.59	≤ 14.79	Pass
11a	6Mbps	52	5260	2.13	2.28	1.97	2.28	96.34	8.35	≤ 8.79	Pass
11a	6Mbps	60	5300	2.00	2.14	2.12	2.32	96.34	8.33	≤ 8.79	Pass
11a	6Mbps	64	5320	2.37	2.49	2.23	2.37	96.34	8.55	≤ 8.79	Pass
11a	6Mbps	100	5500	2.39	2.24	2.28	2.05	96.34	8.42	≤ 8.79	Pass
11a	6Mbps	116	5580	2.12	2.19	1.95	1.83	96.34	8.21	≤ 8.79	Pass
11a	6Mbps	140	5700	2.35	1.93	1.98	1.93	96.34	8.23	≤ 8.79	Pass
11a	6Mbps	144	5720	2.65	2.17	2.34	2.43	96.34	8.58	≤ 8.79	Pass
11ac-VHT20	MCS0	36	5180	-1.66	-1.78	-2.52	-2.20	95.09	4.21	≤ 14.79	Pass
11ac-VHT20	MCS0	44	5220	-2.10	-2.30	-2.25	-2.10	95.09	4.05	≤ 14.79	Pass
11ac-VHT20	MCS0	48	5240	-1.58	-1.30	-1.61	-1.27	95.09	4.80	≤ 14.79	Pass
11ac-VHT20	MCS0	52	5260	2.59	2.73	1.73	2.27	95.09	8.59	≤ 8.79	Pass
11ac-VHT20	MCS0	60	5300	2.33	2.40	2.34	2.28	95.09	8.58	≤ 8.79	Pass
11ac-VHT20	MCS0	64	5320	2.86	2.38	2.14	2.69	95.09	8.76	≤ 8.79	Pass
11ac-VHT20	MCS0	100	5500	2.11	2.26	2.29	1.98	95.09	8.40	≤ 8.79	Pass
11ac-VHT20	MCS0	116	5580	2.55	2.64	2.17	2.21	95.09	8.64	≤ 8.79	Pass
11ac-VHT20	MCS0	140	5700	2.58	1.86	2.04	1.98	95.09	8.36	≤ 8.79	Pass
11ac-VHT20	MCS0	144	5720	2.54	2.49	2.39	2.60	95.09	8.74	≤ 8.79	Pass
11ac-VHT40	MCS0	38	5190	-4.63	-5.10	-4.61	-4.34	86.35	2.00	≤ 14.79	Pass
11ac-VHT40	MCS0	46	5230	-4.78	-5.06	-4.69	-4.76	86.35	1.84	≤ 14.79	Pass
11ac-VHT40	MCS0	54	5270	1.82	1.96	2.02	1.94	86.35	8.60	≤ 8.79	Pass
11ac-VHT40	MCS0	62	5310	1.80	1.68	1.73	1.26	86.35	8.28	≤ 8.79	Pass
11ac-VHT40	MCS0	102	5510	2.28	1.93	1.80	2.19	86.35	8.71	≤ 8.79	Pass
11ac-VHT40	MCS0	110	5550	2.35	2.01	2.02	1.96	86.35	8.74	≤ 8.79	Pass
11ac-VHT40	MCS0	134	5670	2.01	1.90	2.15	2.18	86.35	8.72	≤ 8.79	Pass
11ac-VHT40	MCS0	142	5710	2.22	2.01	2.05	2.07	86.35	8.75	≤ 8.79	Pass

Test Mode	Data Rate /MCS	Ch. No.	Freq. (MHz)	PSD (dBm/MHz)				Duty Cycle (%)	Total PSD (dBm/ MHz)	PSD Limit (dBm/ MHz)	Result
				Ant 0	Ant 1	Ant 2	Ant 3				
11ac-VHT80	MCS0	42	5210	-8.13	-8.61	-7.99	-7.93	89.29	-1.64	≤ 14.79	Pass
11ac-VHT80	MCS0	58	5290	-0.22	-0.06	0.03	-0.19	89.29	6.40	≤ 8.79	Pass
11ac-VHT80	MCS0	106	5530	-0.43	-1.22	-0.94	-1.14	89.29	5.59	≤ 8.79	Pass
11ac-VHT80	MCS0	122	5610	0.13	-0.10	-0.48	-0.56	89.29	6.27	≤ 8.79	Pass
11ac-VHT80	MCS0	138	5690	0.38	-0.03	0.20	0.15	89.29	6.69	≤ 8.79	Pass
11ax-HE20	MCS0	36	5180	-1.32	-1.62	-2.34	-1.43	94.04	4.63	≤ 14.79	Pass
11ax-HE20	MCS0	44	5220	-1.60	-1.75	-1.85	-1.56	94.04	4.60	≤ 14.79	Pass
11ax-HE20	MCS0	48	5240	-1.79	-2.52	-2.57	-1.65	94.04	4.17	≤ 14.79	Pass
11ax-HE20	MCS0	52	5260	2.09	1.99	1.76	2.13	94.04	8.28	≤ 8.79	Pass
11ax-HE20	MCS0	60	5300	1.97	2.10	1.99	2.41	94.04	8.41	≤ 8.79	Pass
11ax-HE20	MCS0	64	5320	2.20	2.12	1.87	2.28	94.04	8.40	≤ 8.79	Pass
11ax-HE20	MCS0	100	5500	2.01	1.94	1.93	2.03	94.04	8.26	≤ 8.79	Pass
11ax-HE20	MCS0	116	5580	2.09	2.04	1.78	1.85	94.04	8.23	≤ 8.79	Pass
11ax-HE20	MCS0	140	5700	2.06	1.93	1.71	1.73	94.04	8.15	≤ 8.79	Pass
11ax-HE20	MCS0	144	5720	2.06	2.26	1.84	1.91	94.04	8.31	≤ 8.79	Pass
11ax-HE40	MCS0	38	5190	-5.08	-4.83	-5.45	-4.42	93.77	1.37	≤ 14.79	Pass
11ax-HE40	MCS0	46	5230	-4.38	-4.59	-4.54	-5.14	93.77	1.65	≤ 14.79	Pass
11ax-HE40	MCS0	54	5270	2.34	2.09	2.21	2.47	93.77	8.58	≤ 8.79	Pass
11ax-HE40	MCS0	62	5310	2.19	2.16	1.98	2.13	93.77	8.42	≤ 8.79	Pass
11ax-HE40	MCS0	102	5510	2.85	2.01	2.08	2.34	93.77	8.63	≤ 8.79	Pass
11ax-HE40	MCS0	110	5550	2.75	2.39	2.41	2.13	93.77	8.73	≤ 8.79	Pass
11ax-HE40	MCS0	134	5670	2.43	2.06	2.25	2.08	93.77	8.51	≤ 8.79	Pass
11ax-HE40	MCS0	142	5710	2.53	2.48	2.48	2.03	93.77	8.69	≤ 8.79	Pass
11ax-HE80	MCS0	42	5210	-7.37	-7.30	-7.53	-7.30	93.97	-1.08	≤ 14.79	Pass
11ax-HE80	MCS0	58	5290	0.54	0.48	0.55	0.58	93.97	6.83	≤ 8.79	Pass
11ax-HE80	MCS0	106	5530	-0.55	-1.52	-1.00	-1.02	93.97	5.28	≤ 8.79	Pass
11ax-HE80	MCS0	122	5610	0.97	0.91	0.30	-0.05	93.97	6.84	≤ 8.79	Pass
11ax-HE80	MCS0	138	5690	0.38	-0.15	-0.31	-0.47	93.97	6.16	≤ 8.79	Pass

Test Mode	Data Rate /MCS	Ch. No.	Freq. (MHz)	PSD (dBm/MHz)				Duty Cycle (%)	Total PSD (dBm/ MHz)	PSD Limit (dBm/ MHz)	Result
				Ant 0	Ant 1	Ant 2	Ant 3				
80+80 MHz mode fall within different UNII band											
11ac-VHT80+80	MCS0	42	5210	-7.46	-6.80	--	--	86.60	-3.48	≤ 14.79	Pass
		58	5290	--	--	-6.72	-6.63	86.60	-3.04	≤ 8.79	Pass
11ax-HE80+80	MCS0	42	5210	-5.84	-5.06	--	--	94.78	-2.19	≤ 14.79	Pass
		58	5290	--	--	-5.70	-5.68	94.78	-2.44	≤ 8.79	Pass
80+80 MHz mode fall within same UNII band											
11ac-VHT80+80	MCS0	106	5530	-2.89	-3.08	--	--	86.60	3.81	≤ 8.79	Pass
		122	5610	--	--	-2.38	-3.00				
11ax-HE80+80	MCS0	106	5530	-5.95	-6.20	--	--	94.78	1.04	≤ 8.79	Pass
		122	5610	--	--	-4.30	-4.70				

Note 1: When EUT duty cycle < 98%, Total PSD (dBm/MHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$ (dBm/MHz) + $10 \cdot \log (1/\text{Duty Cycle})$.

Note 2: For 802.11ac-VHT80+80/ax-HE80+80 mode fall within different UNII band:

Ant 0 & 1: Total PSD (dBm/MHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)}\}$ (dBm/MHz) + $10 \cdot \log (1/\text{Duty Cycle})$.

Ant 2 & 3: Total PSD (dBm/MHz) = $10 \cdot \log \{10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$ (dBm/MHz) + $10 \cdot \log (1/\text{Duty Cycle})$.

For 802.11ac-VHT80+80/ax-HE80+80 mode fall within same UNII band:

Total PSD (dBm/MHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$ (dBm/MHz) + $10 \cdot \log (1/\text{Duty Cycle})$.

Product	ACCESS POINT	Temperature	24~27°C
Test Engineer	Eric Lin	Relative Humidity	58~60%
Test Site	SR2	Test Date	2021/07/25~2021/11/18
Frequency Band	APEX0587 (NII-3)		

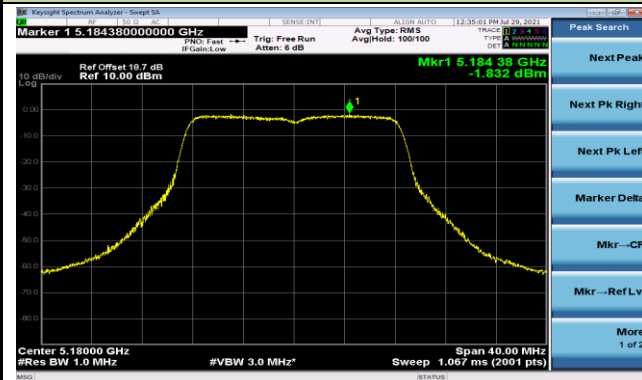
Test Mode	Data Rate/ MCS	Ch. No.	Freq. (MHz)	PSD (dBm/510kHz)				Duty Cycle (%)	Total PSD (dBm/510kHz)	Limit (dBm/510kHz)	Result
				Ant 0	Ant 1	Ant 2	Ant 3				
11a	6Mbps	149	5745	8.13	7.96	8.67	8.22	96.34	14.44	≤ 27.79	Pass
11a	6Mbps	157	5785	8.33	8.51	8.22	8.77	96.34	14.64	≤ 27.79	Pass
11a	6Mbps	165	5825	8.78	8.47	8.29	8.48	96.34	14.69	≤ 27.79	Pass
11ac-VHT20	MCS0	149	5745	7.55	7.97	7.56	8.04	95.09	14.02	≤ 27.79	Pass
11ac-VHT20	MCS0	157	5785	8.41	8.45	8.31	8.39	95.09	14.63	≤ 27.79	Pass
11ac-VHT20	MCS0	165	5825	8.32	7.80	8.08	8.15	95.09	14.33	≤ 27.79	Pass
11ac-VHT40	MCS0	151	5755	5.13	5.18	4.76	4.94	86.35	11.66	≤ 27.79	Pass
11ac-VHT40	MCS0	159	5795	4.85	4.89	4.85	5.03	86.35	11.56	≤ 27.79	Pass
11ac-VHT80	MCS0	155	5775	0.58	0.68	0.75	0.59	89.29	7.16	≤ 27.79	Pass
11ax-HE20	MCS0	149	5745	8.27	8.12	8.07	8.15	94.04	14.44	≤ 27.79	Pass
11ax-HE20	MCS0	157	5785	7.94	8.22	7.89	8.33	94.04	14.38	≤ 27.79	Pass
11ax-HE20	MCS0	165	5825	8.59	8.17	8.39	8.53	94.04	14.71	≤ 27.79	Pass
11ax-HE40	MCS0	151	5755	5.56	5.61	5.22	5.19	93.77	11.70	≤ 27.79	Pass
11ax-HE40	MCS0	159	5795	5.15	5.58	5.41	5.37	93.77	11.68	≤ 27.79	Pass
11ax-HE80	MCS0	155	5775	1.01	0.74	0.64	0.73	93.97	7.07	≤ 27.79	Pass

Note 1: When EUT duty cycle ≥ 98%, Total PSD (dBm/500kHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$ (dBm/500kHz)

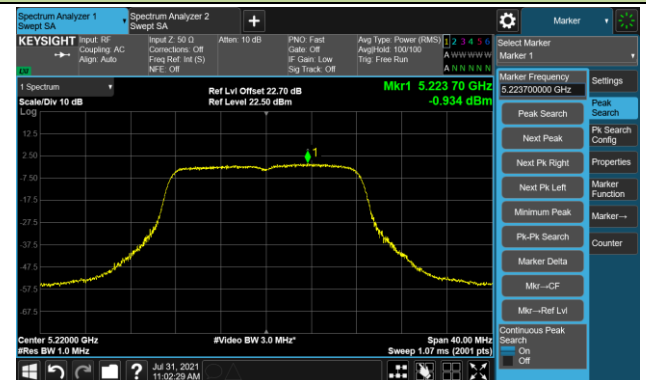
When EUT duty cycle < 98%, Total PSD (dBm/500kHz) = $10 \cdot \log \{10^{(\text{Ant 0 PSD}/10)} + 10^{(\text{Ant 1 PSD}/10)} + 10^{(\text{Ant 2 PSD}/10)} + 10^{(\text{Ant 3 PSD}/10)}\}$ (dBm/500kHz) + $10 \cdot \log (1/\text{Duty Cycle})$.

802.11a Power Spectral Density - Ant 0

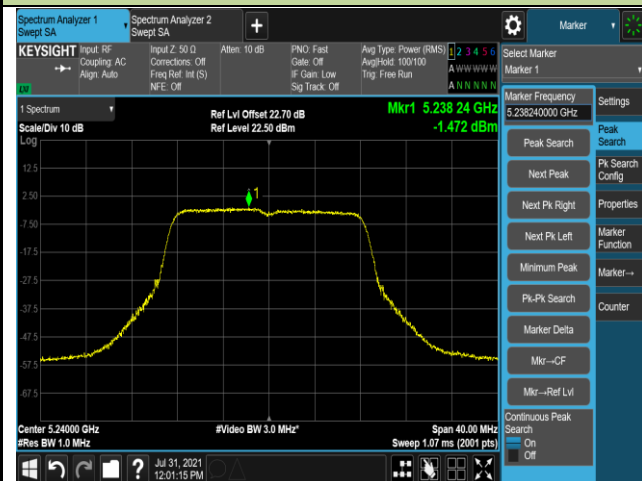
Channel 36 (5180MHz)



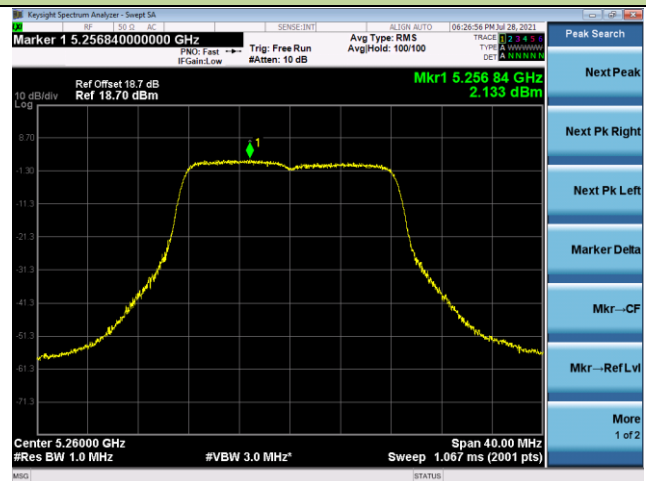
Channel 44 (5220MHz)



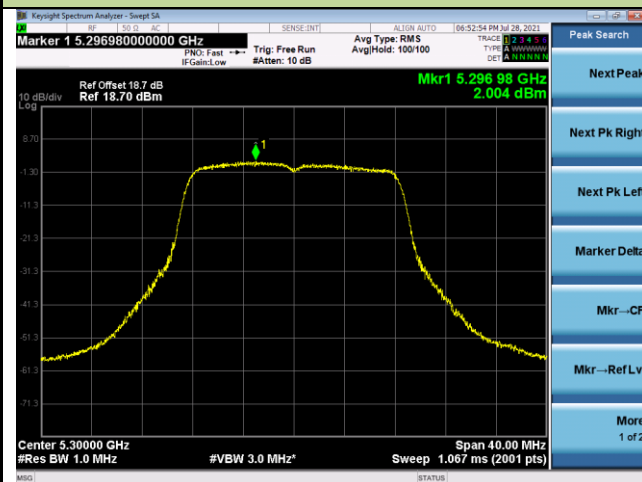
Channel 48 (5240MHz)



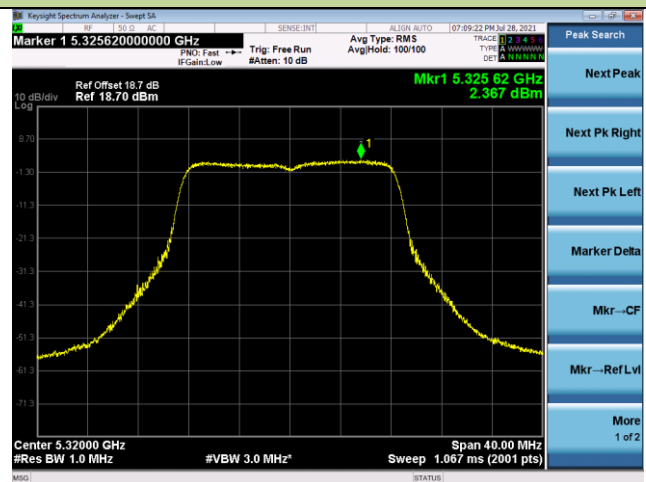
Channel 52 (5260MHz)



Channel 60 (5300MHz)

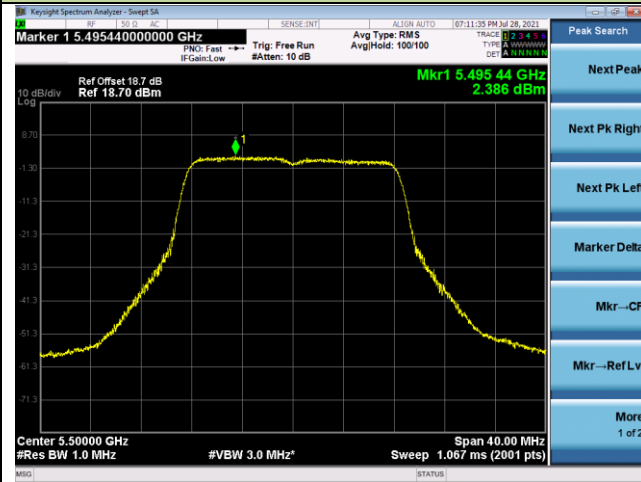


Channel 64 (5320MHz)

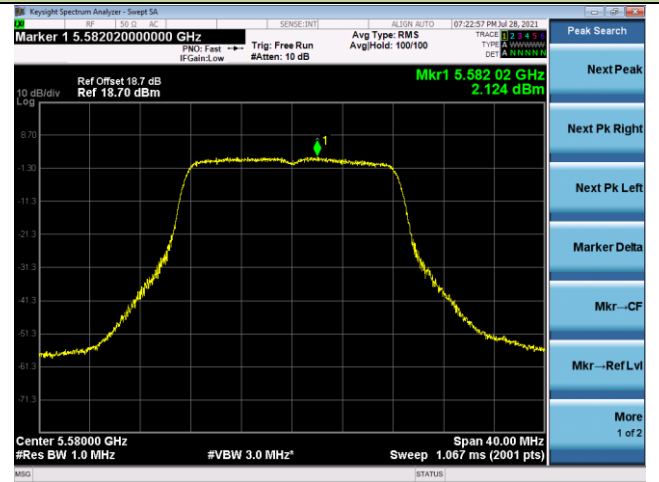


802.11a Power Spectral Density - Ant 0

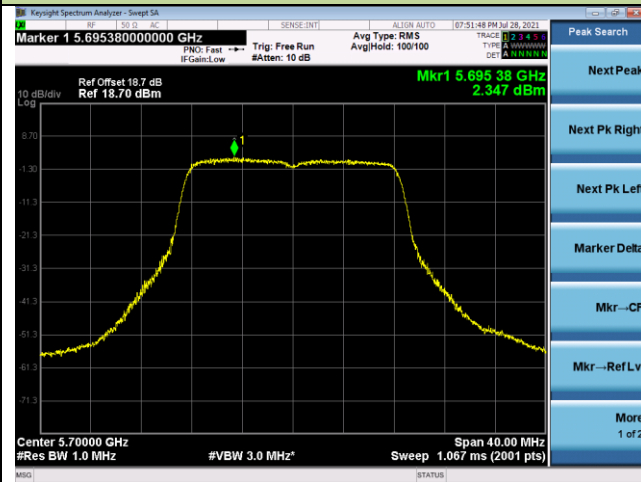
Channel 100 (5500MHz)



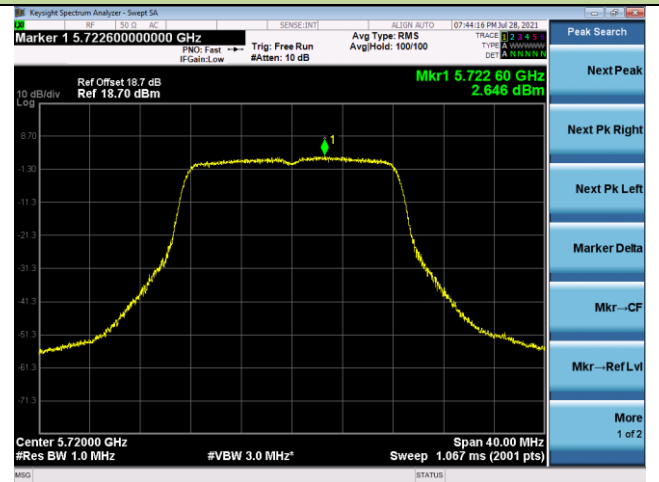
Channel 116 (5580MHz)



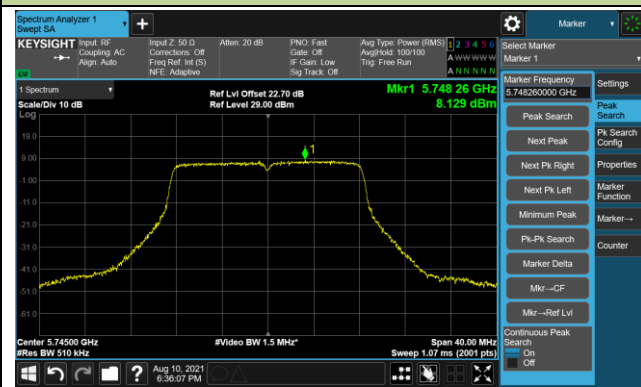
Channel 140 (5700MHz)



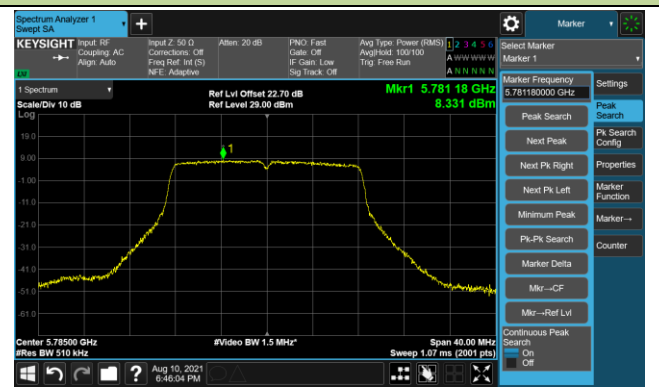
Channel 144 (5720MHz)

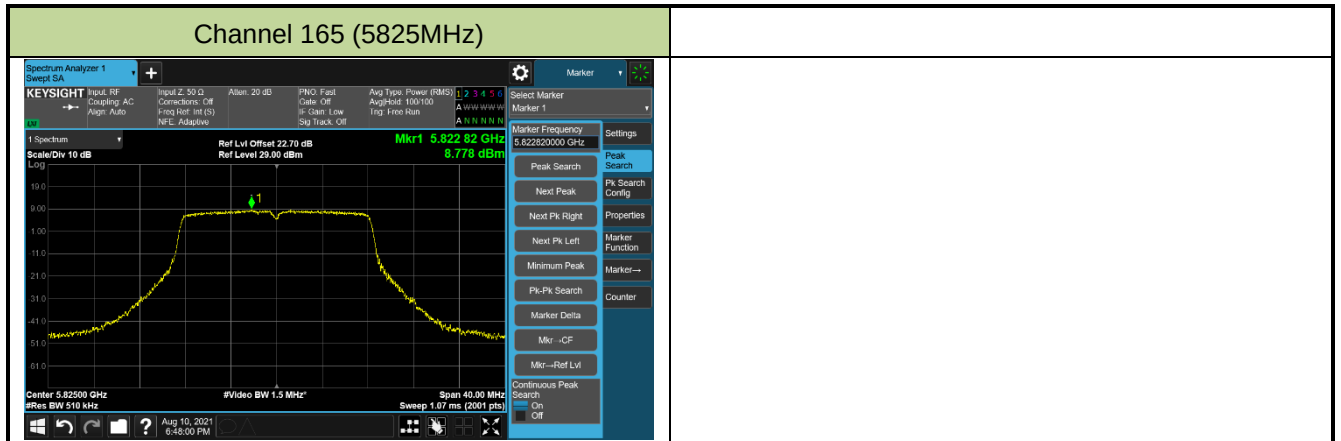


Channel 149 (5745MHz)



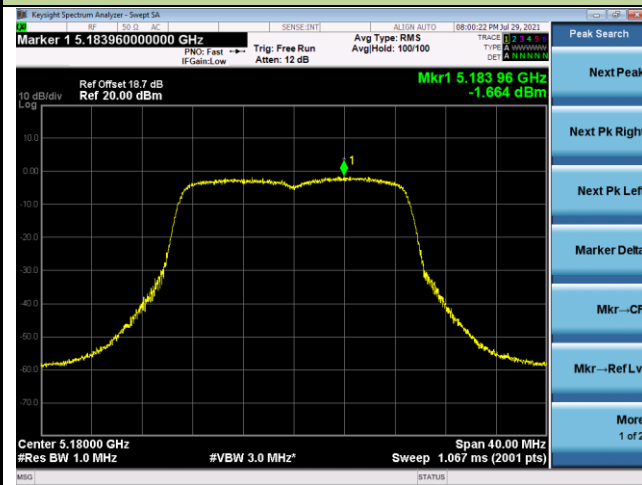
Channel 157 (5785MHz)



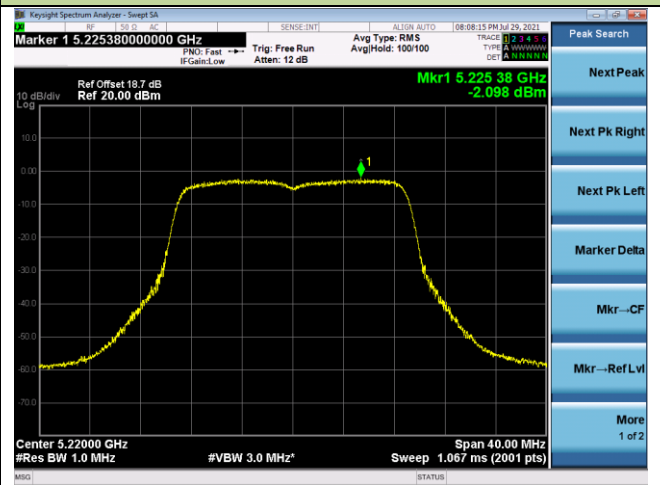


802.11ac-VHT20 Power Spectral Density - Ant 0

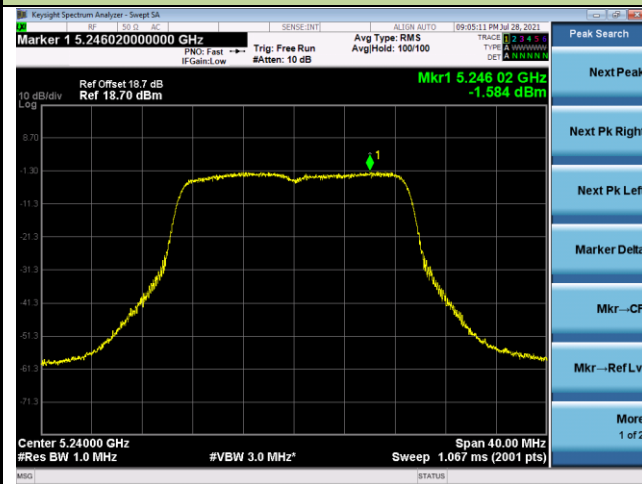
Channel 36 (5180MHz)



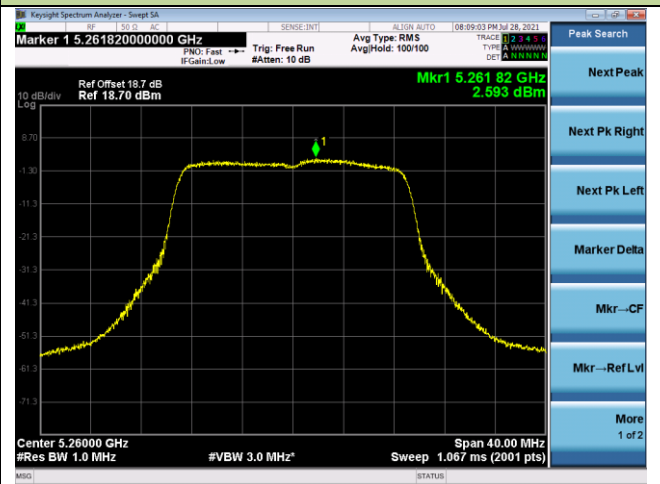
Channel 44 (5220MHz)



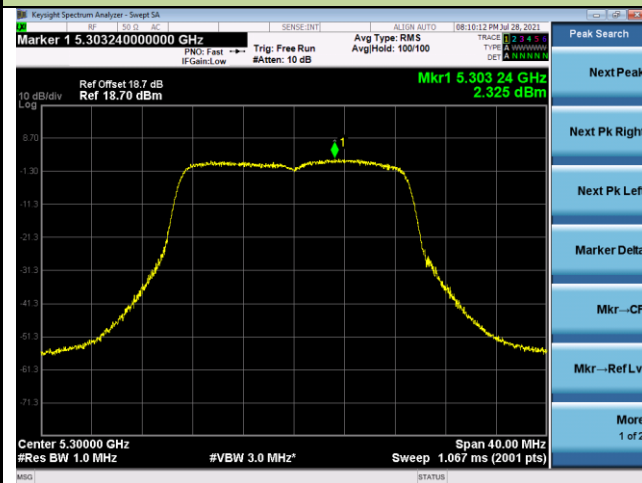
Channel 48 (5240MHz)



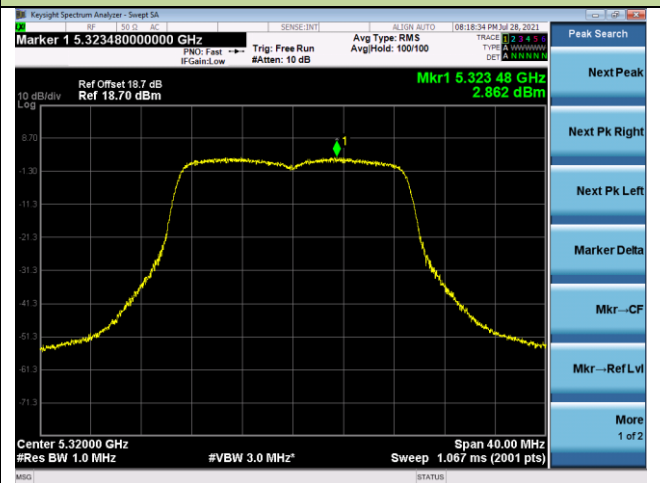
Channel 52 (5260MHz)



Channel 60 (5300MHz)

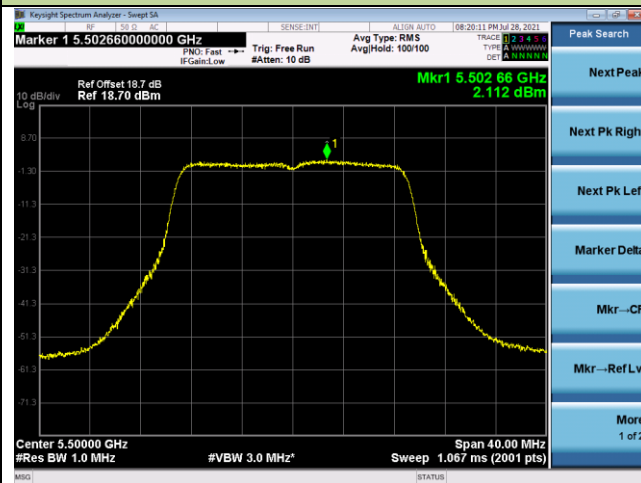


Channel 64 (5320MHz)

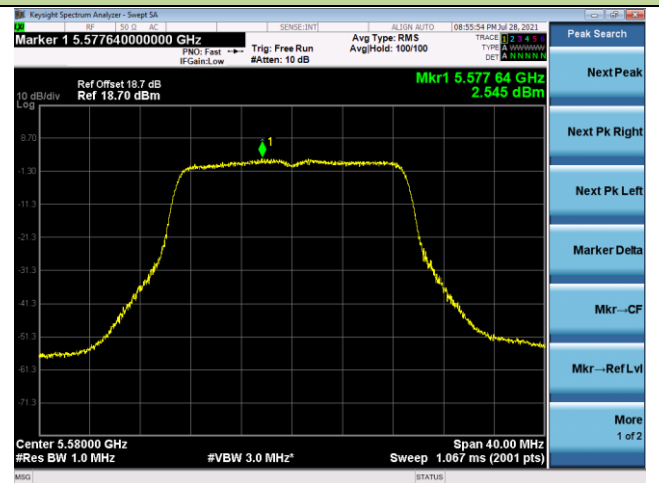


802.11ac-VHT20 Power Spectral Density - Ant 0

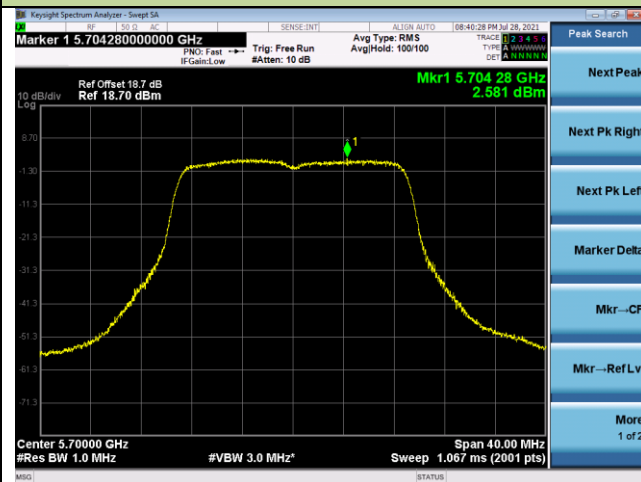
Channel 100 (5500MHz)



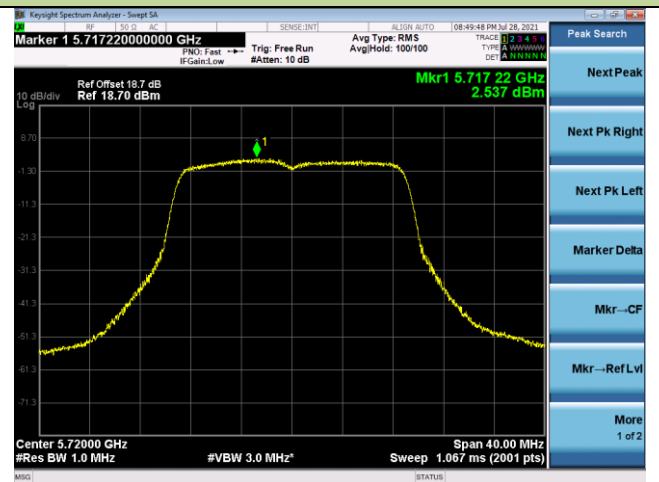
Channel 116 (5580MHz)



Channel 140 (5700MHz)



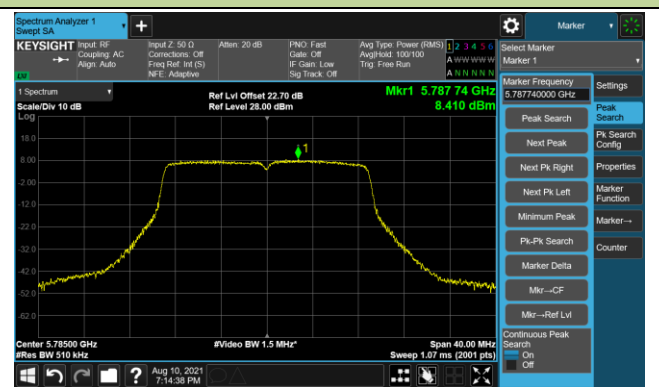
Channel 144 (5720MHz)

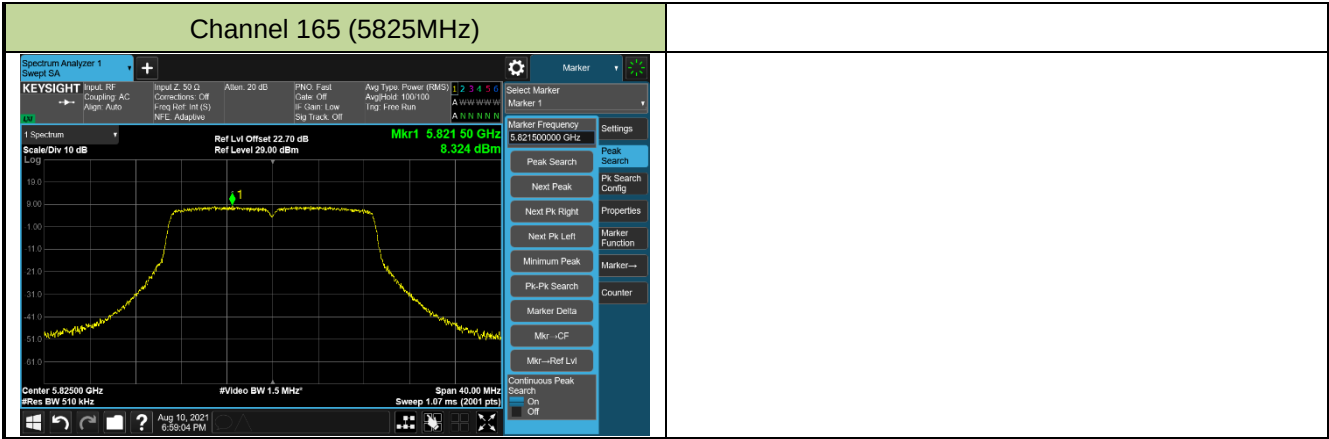


Channel 149 (5745MHz)



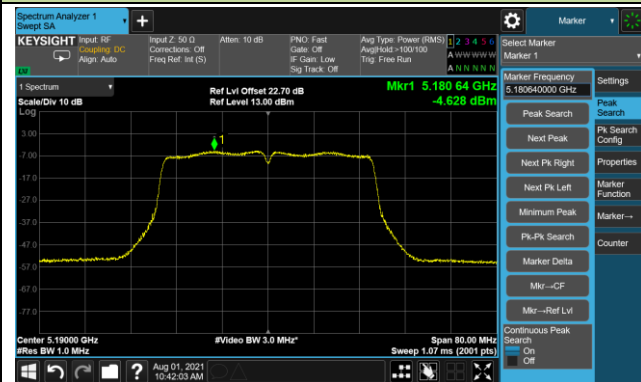
Channel 157 (5785MHz)



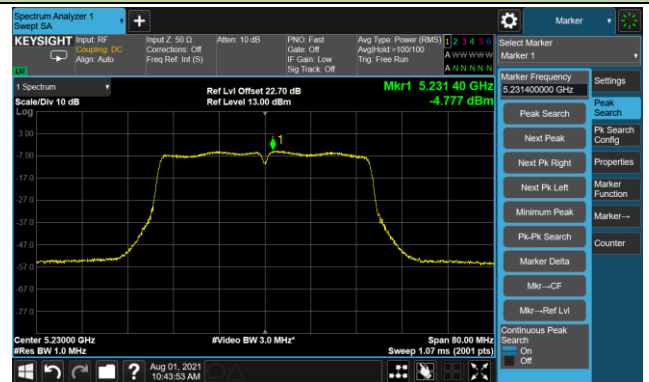


802.11ac-VHT40 Power Spectral Density - Ant 0

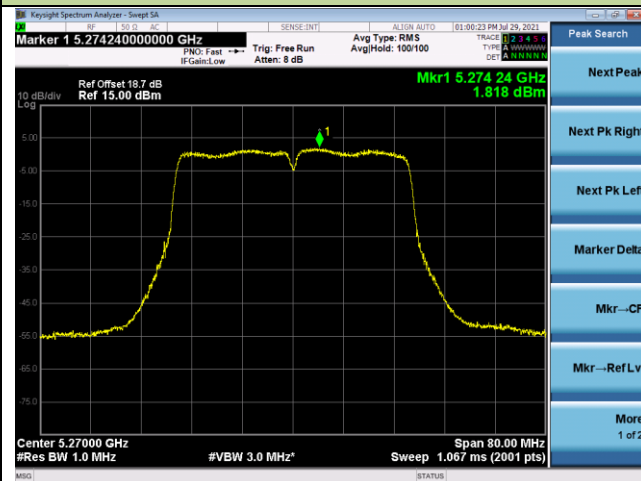
Channel 38 (5190MHz)



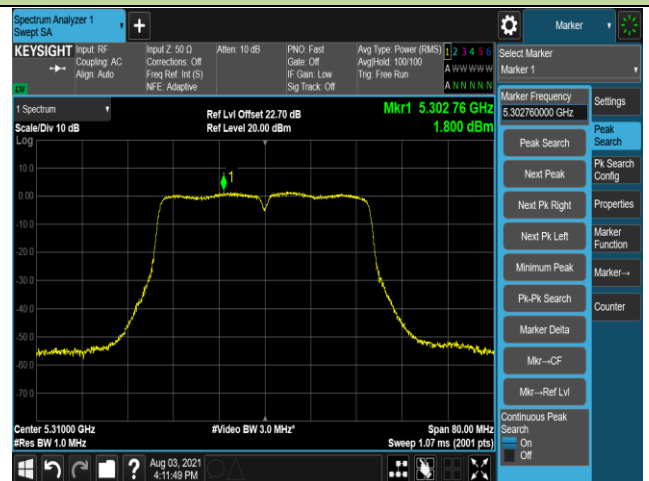
Channel 46 (5230MHz)



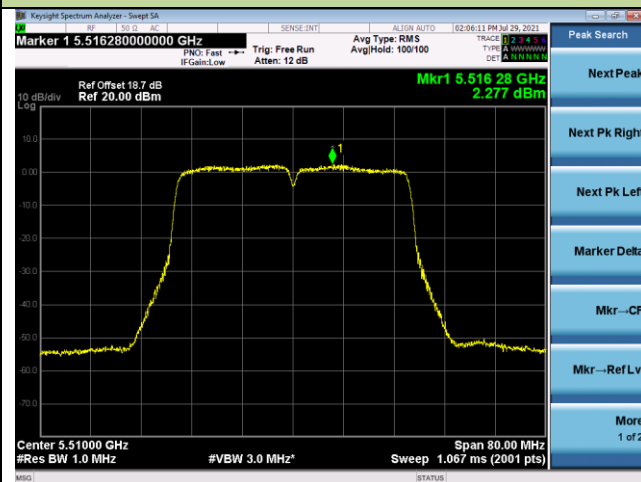
Channel 54 (5270MHz)



Channel 62 (5310MHz)



Channel 102 (5510MHz)



Channel 110 (5550MHz)

