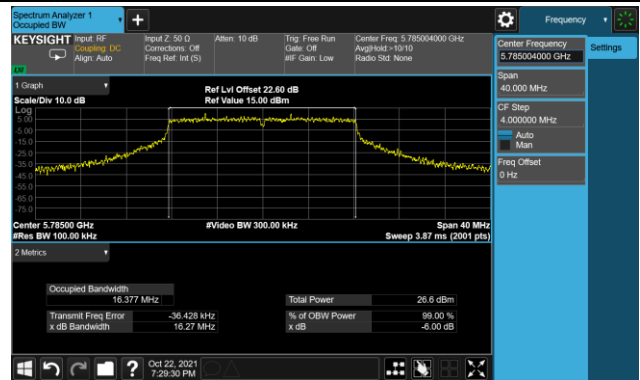


802.11a 6dB Bandwidth

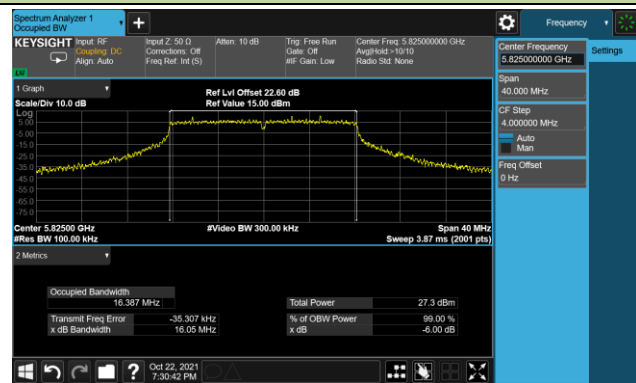
Channel 149 (5745MHz)



Channel 157 (5785MHz)

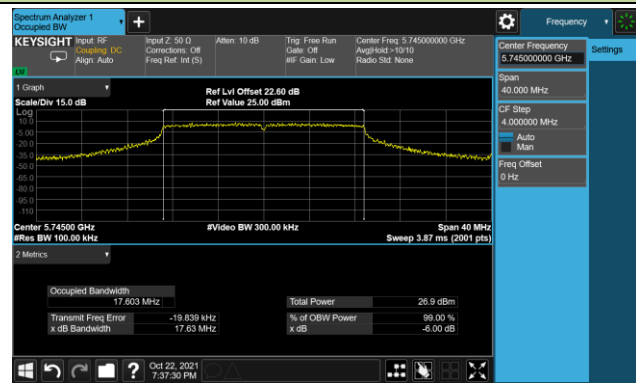


Channel 165 (5825MHz)



802.11ac-VHT20 6dB Bandwidth

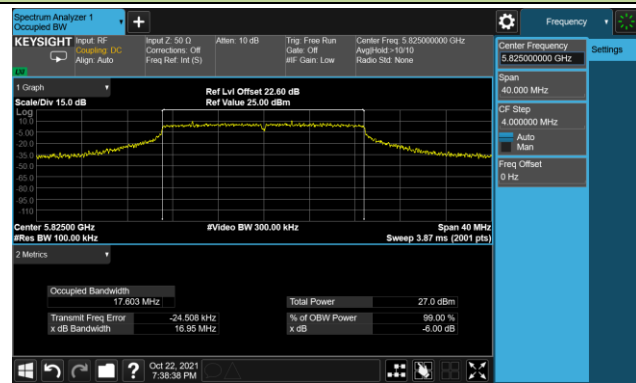
Channel 149 (5745MHz)

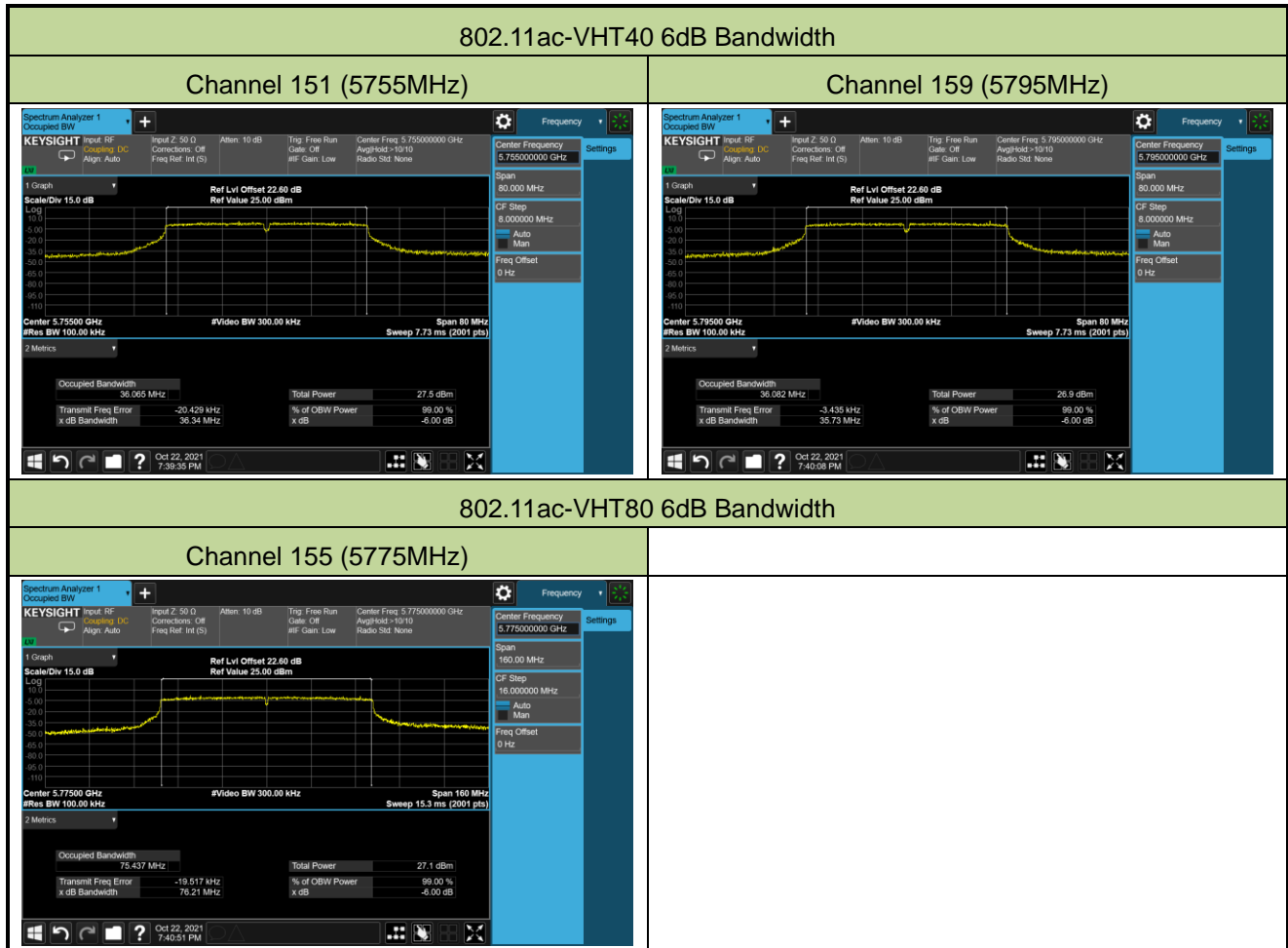


Channel 157 (5785MHz)



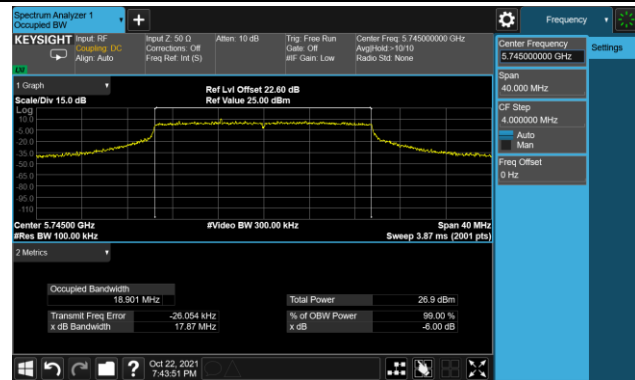
Channel 165 (5825MHz)



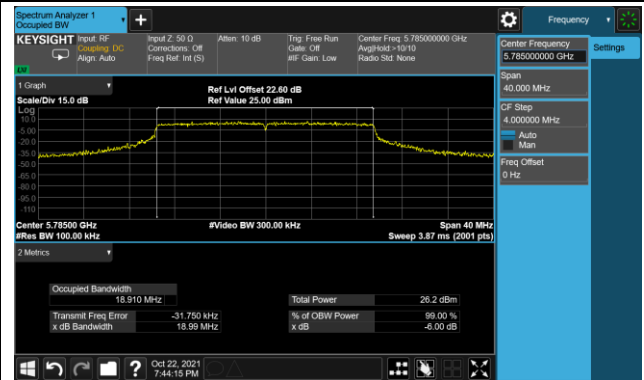


802.11ax-HE20 6dB Bandwidth

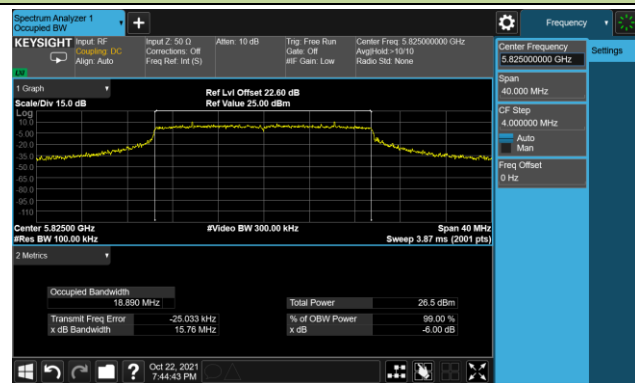
Channel 149 (5745MHz)



Channel 157 (5785MHz)

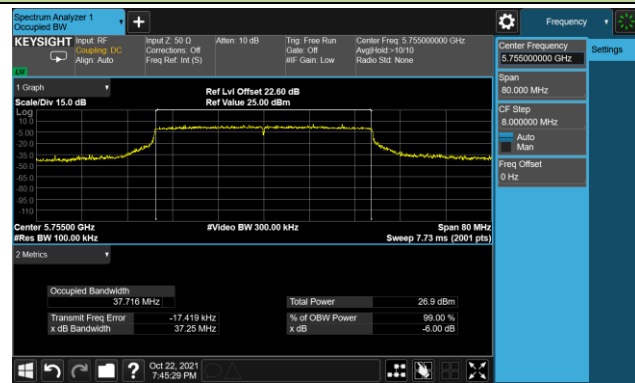


Channel 165 (5825MHz)

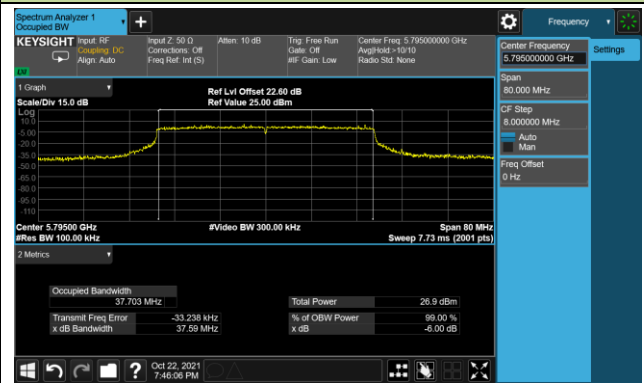


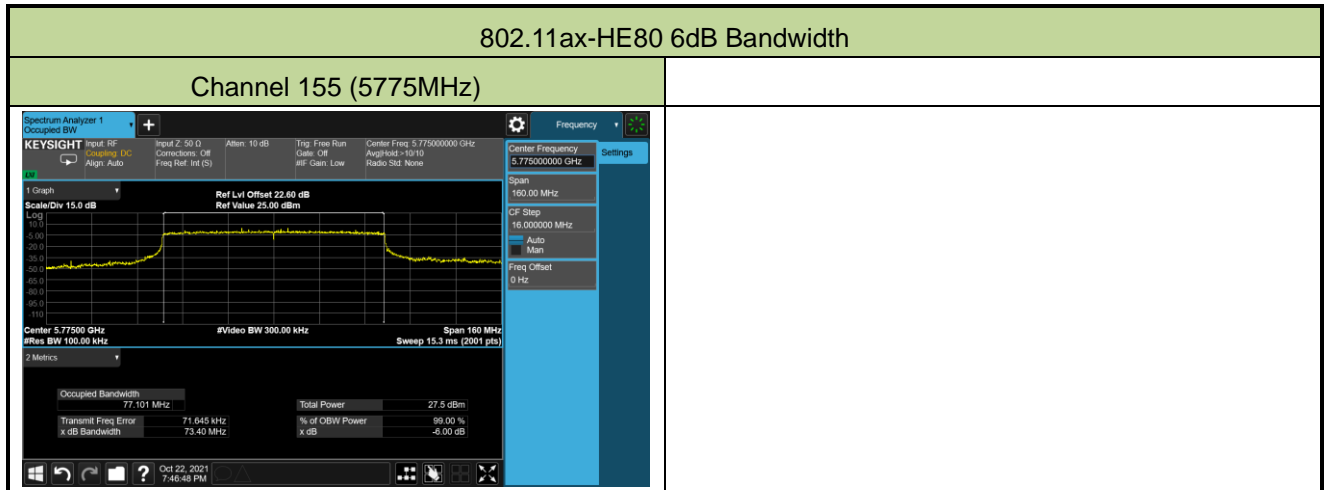
802.11ax-HE40 6dB Bandwidth

Channel 151 (5755MHz)



Channel 159 (5795MHz)





A.4 Output Power Test Result

Test Site	SIP-TR1	Test Engineer	Alisa Deng
Test Date	2022/01/11		

Test Mode	Data Rate MCS	Channel No.	Freq. (MHz)	Average Power (dBm)		Total Average Power (dBm)	Power Limit (dBm)
				Ant 0	Ant 1		
11a	6Mbps	36	5180	21.56	21.24	24.41	≤ 30.00
11a	6Mbps	44	5220	21.59	21.51	24.56	≤ 30.00
11a	6Mbps	48	5240	21.63	21.41	24.53	≤ 30.00
11a	6Mbps	52	5260	17.54	17.00	20.29	≤ 23.98
11a	6Mbps	60	5300	17.42	17.05	20.25	≤ 23.98
11a	6Mbps	64	5320	17.83	17.58	20.72	≤ 23.98
11a	6Mbps	100	5500	17.20	16.85	20.04	≤ 23.98
11a	6Mbps	116	5580	17.34	16.75	20.07	≤ 23.98
11a	6Mbps	140	5700	16.85	15.97	19.44	≤ 23.98
11a	6Mbps	144	5720	16.92	15.83	19.42	≤ 22.86
11a	6Mbps	149	5745	21.63	21.05	24.36	≤ 30.00
11a	6Mbps	157	5785	21.69	21.04	24.39	≤ 30.00
11a	6Mbps	165	5825	21.72	21.05	24.41	≤ 30.00
11ac-VHT20	MCS0	36	5180	20.63	20.39	23.52	≤ 30.00
11ac-VHT20	MCS0	44	5220	21.91	21.55	24.74	≤ 30.00
11ac-VHT20	MCS0	48	5240	21.86	21.66	24.77	≤ 30.00
11ac-VHT20	MCS0	52	5260	19.21	18.75	22.00	≤ 23.98
11ac-VHT20	MCS0	60	5300	19.62	19.25	22.45	≤ 23.98
11ac-VHT20	MCS0	64	5320	19.54	19.25	22.41	≤ 23.98
11ac-VHT20	MCS0	100	5500	19.41	19.22	22.33	≤ 23.98
11ac-VHT20	MCS0	116	5580	19.52	18.92	22.24	≤ 23.98
11ac-VHT20	MCS0	140	5700	17.67	16.92	20.32	≤ 23.98
11ac-VHT20	MCS0	144	5720	19.21	18.26	21.77	≤ 22.88
11ac-VHT20	MCS0	149	5745	21.9	21.18	24.57	≤ 30.00
11ac-VHT20	MCS0	157	5785	21.96	21.21	24.61	≤ 30.00
11ac-VHT20	MCS0	165	5825	21.82	21.22	24.54	≤ 30.00

Test Mode	Data Rate MCS	Channel No.	Freq. (MHz)	Average Power (dBm)		Total Average Power (dBm)	Power Limit (dBm)
				Ant 0	Ant 1		
11ac-VHT40	MCS0	38	5190	18.45	18.26	21.37	≤ 30.00
11ac-VHT40	MCS0	46	5230	21.92	21.74	24.84	≤ 30.00
11ac-VHT40	MCS0	54	5270	20.70	20.31	23.52	≤ 23.98
11ac-VHT40	MCS0	62	5310	19.48	18.97	22.24	≤ 23.98
11ac-VHT40	MCS0	102	5510	19.75	19.27	22.53	≤ 23.98
11ac-VHT40	MCS0	110	5550	20.97	20.52	23.76	≤ 23.98
11ac-VHT40	MCS0	134	5670	20.67	19.87	23.30	≤ 23.98
11ac-VHT40	MCS0	142	5710	21.10	20.27	23.72	≤ 23.98
11ac-VHT40	MCS0	151	5755	21.87	21.28	24.60	≤ 30.00
11ac-VHT40	MCS0	159	5795	21.62	20.86	24.27	≤ 30.00
11ac-VHT80	MCS0	42	5210	16.75	16.36	19.57	≤ 30.00
11ac-VHT80	MCS0	58	5290	18.32	17.82	21.09	≤ 23.98
11ac-VHT80	MCS0	106	5530	19.51	19.01	22.28	≤ 23.98
11ac-VHT80	MCS0	122	5610	21.15	20.28	23.75	≤ 23.98
11ac-VHT80	MCS0	138	5690	21.05	20.18	23.65	≤ 23.98
11ac-VHT80	MCS0	155	5775	21.57	20.91	24.26	≤ 30.00
11ax-HE20	MCS0	36	5180	19.85	19.63	22.75	≤ 30.00
11ax-HE20	MCS0	44	5220	21.84	21.42	24.65	≤ 30.00
11ax-HE20	MCS0	48	5240	21.90	21.56	24.74	≤ 30.00
11ax-HE20	MCS0	52	5260	19.52	19.14	22.34	≤ 23.98
11ax-HE20	MCS0	60	5300	19.53	19.18	22.37	≤ 23.98
11ax-HE20	MCS0	64	5320	18.61	18.26	21.45	≤ 23.98
11ax-HE20	MCS0	100	5500	19.34	19.09	22.23	≤ 23.98
11ax-HE20	MCS0	116	5580	19.48	18.80	22.16	≤ 23.98
11ax-HE20	MCS0	140	5700	15.58	14.53	18.10	≤ 23.98
11ax-HE20	MCS0	144	5720	19.11	18.12	21.65	≤ 22.96
11ax-HE20	MCS0	149	5745	21.80	21.03	24.44	≤ 30.00
11ax-HE20	MCS0	157	5785	21.86	21.09	24.50	≤ 30.00
11ax-HE20	MCS0	165	5825	21.78	21.02	24.43	≤ 30.00

Test Mode	Data Rate MCS	Channel No.	Freq. (MHz)	Average Power (dBm)		Total Average Power (dBm)	Power Limit (dBm)
				Ant 0	Ant 1		
11ax-HE40	MCS0	38	5190	18.25	18.05	21.16	≤ 30.00
11ax-HE40	MCS0	46	5230	21.58	21.38	24.49	≤ 30.00
11ax-HE40	MCS0	54	5270	21.00	20.44	23.74	≤ 23.98
11ax-HE40	MCS0	62	5310	18.79	18.43	21.62	≤ 23.98
11ax-HE40	MCS0	102	5510	20.04	19.57	22.82	≤ 23.98
11ax-HE40	MCS0	110	5550	21.03	20.64	23.85	≤ 23.98
11ax-HE40	MCS0	134	5670	19.41	18.50	21.99	≤ 23.98
11ax-HE40	MCS0	142	5710	21.23	20.12	23.72	≤ 23.98
11ax-HE40	MCS0	151	5755	21.56	20.77	24.19	≤ 30.00
11ax-HE40	MCS0	159	5795	21.71	20.75	24.27	≤ 30.00
11ax-HE80	MCS0	42	5210	18.09	17.80	20.96	≤ 30.00
11ax-HE80	MCS0	58	5290	18.68	18.23	21.47	≤ 23.98
11ax-HE80	MCS0	106	5530	19.44	18.90	22.19	≤ 23.98
11ax-HE80	MCS0	122	5610	21.02	20.19	23.64	≤ 23.98
11ax-HE80	MCS0	138	5690	20.97	20.05	23.54	≤ 23.98
11ax-HE80	MCS0	155	5775	21.97	21.15	24.59	≤ 30.00

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

Note 2: For Channel 5720MHz, Average Power Limit = $11 + 10 \cdot \log(5 + \text{BW}_{26\text{dBc}} / 2)$.

A.5 Power Spectral Density Test Result

Test Site	SIP-TR1	Test Engineer	Alisa Deng
Test Date	2021/10/18~2022/1/11		
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	10.16	10.15	91.59	13.54	15.38
11a	6Mbps	44	5220	10.20	10.31	91.59	13.65	15.38
11a	6Mbps	48	5240	10.75	10.09	91.59	13.82	15.38
11a	6Mbps	52	5260	6.16	5.48	91.59	9.22	9.63
11a	6Mbps	60	5300	5.94	5.47	91.59	9.10	9.63
11a	6Mbps	64	5320	6.17	5.76	91.59	9.36	9.63
11a	6Mbps	100	5500	5.62	5.34	91.59	8.88	9.11
11a	6Mbps	116	5580	5.77	5.26	91.59	8.91	9.11
11a	6Mbps	140	5700	5.92	5.14	91.59	8.94	9.11
11a	6Mbps	144	5720	5.71	5.07	91.59	8.80	9.11
11ac-VHT20	MCS0	36	5180	9.15	8.63	91.37	12.30	17.00
11ac-VHT20	MCS0	44	5220	10.25	10.02	91.37	13.54	17.00
11ac-VHT20	MCS0	48	5240	10.34	10.03	91.37	13.59	17.00
11ac-VHT20	MCS0	52	5260	7.47	7.13	91.37	10.71	11.00
11ac-VHT20	MCS0	60	5300	7.60	7.29	91.37	10.85	11.00
11ac-VHT20	MCS0	64	5320	7.34	7.34	91.37	10.74	11.00
11ac-VHT20	MCS0	100	5500	7.37	7.07	91.37	10.63	11.00
11ac-VHT20	MCS0	116	5580	7.43	6.99	91.37	10.62	11.00
11ac-VHT20	MCS0	140	5700	6.14	5.70	91.37	9.33	11.00
11ac-VHT20	MCS0	144	5720	7.77	6.91	91.37	10.76	11.00
11ac-VHT40	MCS0	38	5190	4.28	4.13	87.75	7.79	17.00
11ac-VHT40	MCS0	46	5230	7.61	7.42	87.75	11.10	17.00
11ac-VHT40	MCS0	54	5270	6.24	5.87	87.75	9.64	11.00
11ac-VHT40	MCS0	62	5310	5.29	4.97	87.75	8.71	11.00
11ac-VHT40	MCS0	102	5510	5.31	4.98	87.75	8.73	11.00
11ac-VHT40	MCS0	110	5550	5.85	5.53	87.75	9.27	11.00
11ac-VHT40	MCS0	134	5670	6.59	5.37	87.75	9.60	11.00
11ac-VHT40	MCS0	142	5710	7.06	6.16	87.75	10.21	11.00

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	MCS0	42	5210	-0.72	-1.39	88.67	2.49	17.00
11ac-VHT80	MCS0	58	5290	0.86	0.57	88.67	4.25	11.00
11ac-VHT80	MCS0	106	5530	2.03	1.55	88.67	5.33	11.00
11ac-VHT80	MCS0	122	5610	3.33	2.63	88.67	6.53	11.00
11ac-VHT80	MCS0	138	5690	3.85	3.16	88.67	7.05	11.00
11ax-HE20	MCS0	36	5180	8.34	7.96	88.67	11.69	17.00
11ax-HE20	MCS0	44	5220	9.95	9.75	88.67	13.38	17.00
11ax-HE20	MCS0	48	5240	9.92	9.44	88.67	13.22	17.00
11ax-HE20	MCS0	52	5260	7.34	7.13	88.67	10.77	11.00
11ax-HE20	MCS0	60	5300	7.36	7.10	88.67	10.76	11.00
11ax-HE20	MCS0	64	5320	6.38	6.11	88.67	9.78	11.00
11ax-HE20	MCS0	100	5500	7.09	6.86	88.67	10.51	11.00
11ax-HE20	MCS0	116	5580	7.26	6.68	88.67	10.51	11.00
11ax-HE20	MCS0	140	5700	4.07	3.08	88.67	7.13	11.00
11ax-HE20	MCS0	144	5720	7.60	6.81	88.67	10.76	11.00
11ax-HE40	MCS0	38	5190	3.86	3.74	93.75	7.09	17.00
11ax-HE40	MCS0	46	5230	6.83	6.96	93.75	10.18	17.00
11ax-HE40	MCS0	54	5270	6.87	6.07	93.75	9.78	11.00
11ax-HE40	MCS0	62	5310	4.66	4.25	93.75	7.75	11.00
11ax-HE40	MCS0	102	5510	5.33	5.35	93.75	8.63	11.00
11ax-HE40	MCS0	110	5550	5.91	5.45	93.75	8.97	11.00
11ax-HE40	MCS0	134	5670	4.93	4.05	93.75	7.81	11.00
11ax-HE40	MCS0	142	5710	7.00	6.18	93.75	9.90	11.00
11ax-HE80	MCS0	42	5210	0.95	0.54	94.24	4.02	17.00
11ax-HE80	MCS0	58	5290	1.59	0.95	94.24	4.55	11.00
11ax-HE80	MCS0	106	5530	1.73	1.28	94.24	4.78	11.00
11ax-HE80	MCS0	122	5610	3.28	2.62	94.24	6.23	11.00
11ax-HE80	MCS0	138	5690	3.60	3.12	94.24	6.64	11.00

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

Note 2:

For Band - NII-1 at 802.11a mode, the PSD limit (dBm/MHz) = 17 – (7.62-6) = 15.38dBm/MHz

For Band - NII-2a at 802.11a mode, the PSD limit (dBm/MHz) = 11 – (7.37-6) = 9.63dBm/MHz

For Band - NII-2c at 802.11a mode, the PSD limit (dBm/MHz) = 11 – (7.89-6) = 9.11dBm/MHz

Test Site	SIP-TR1	Test Engineer	Alisa Deng
Test Date	2021/10/19		
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	7.69	7.36	91.59	10.92	29.33
11a	6Mbps	157	5785	8.30	7.38	91.59	11.25	29.33
11a	6Mbps	165	5825	7.57	6.85	91.59	10.61	29.33
11ac-VHT20	MCS0	149	5745	7.59	6.80	91.37	10.62	30.00
11ac-VHT20	MCS0	157	5785	7.83	6.85	91.37	10.77	30.00
11ac-VHT20	MCS0	165	5825	7.54	7.00	91.37	10.68	30.00
11ac-VHT40	MCS0	151	5755	4.81	4.37	87.75	8.17	30.00
11ac-VHT40	MCS0	159	5795	4.56	3.84	87.75	7.79	30.00
11ac-VHT80	MCS0	155	5775	1.41	0.72	88.67	4.61	30.00
11ax-HE20	MCS0	149	5745	7.08	6.67	88.67	10.41	30.00
11ax-HE20	MCS0	157	5785	7.47	7.00	88.67	10.77	30.00
11ax-HE20	MCS0	165	5825	6.86	6.90	88.67	10.42	30.00
11ax-HE40	MCS0	151	5755	4.47	3.81	93.75	7.44	30.00
11ax-HE40	MCS0	159	5795	4.82	4.34	93.75	7.88	30.00
11ax-HE80	MCS0	155	5775	2.09	1.49	94.24	5.07	30.00

Note 1:

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

Note 2:

For Band - NII-3 at 802.11a mode, the PSD limit (dBm/500KHz) = $30 - (6.67 - 6) = 29.33\text{dBm}/500\text{KHz}$

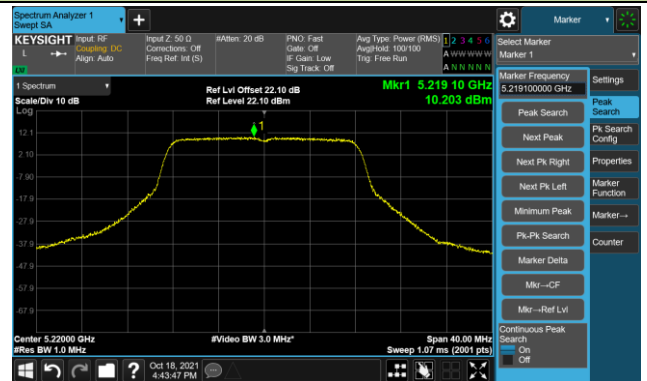
For Band - NII-3 at 802.11n/ac/ax mode, the PSD limit (dBm/500KHz) = $30 = 30\text{dBm}/500\text{KHz}$

802.11a Power Spectral Density- Ant 0

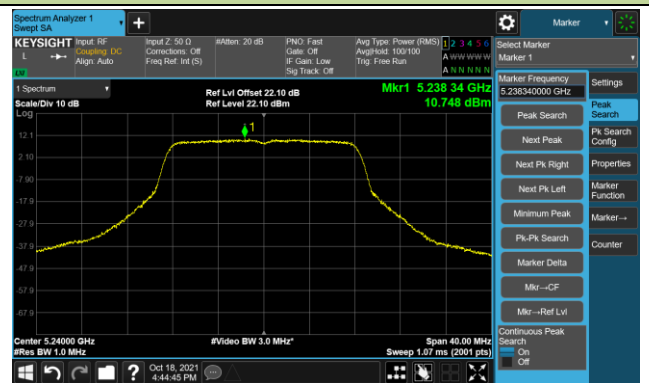
Channel 36 (5180MHz)



Channel 44 (5220MHz)



Channel 48 (5240MHz)



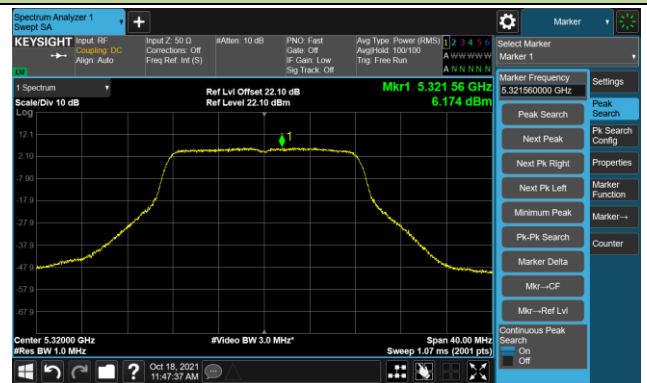
Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)



Channel 100 (5500MHz)

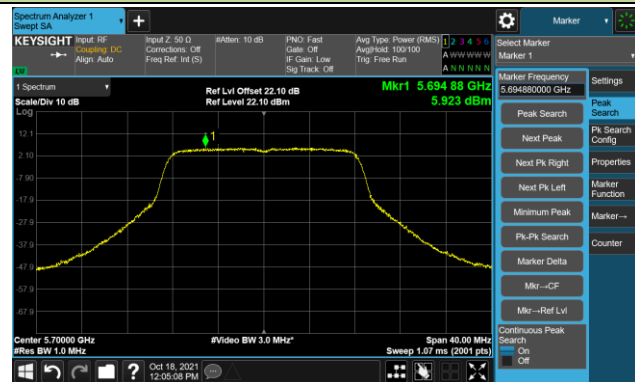


Channel 116 (5580MHz)

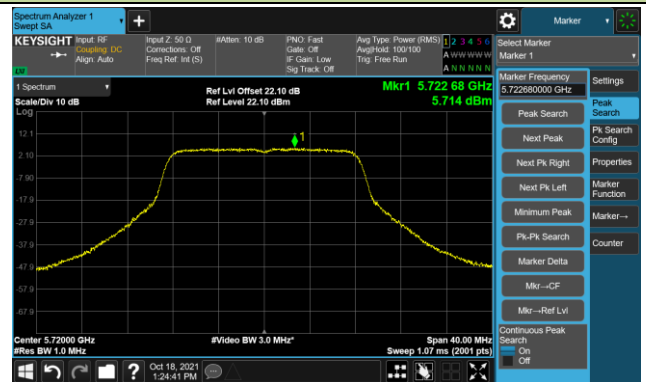


802.11a Power Spectral Density- Ant 0

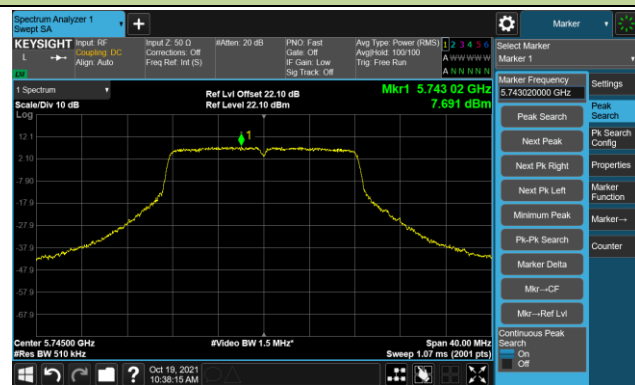
Channel 140 (5700MHz)



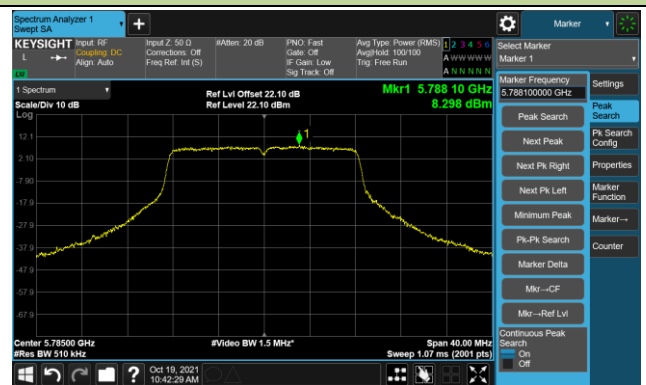
Channel 144(5720MHz)



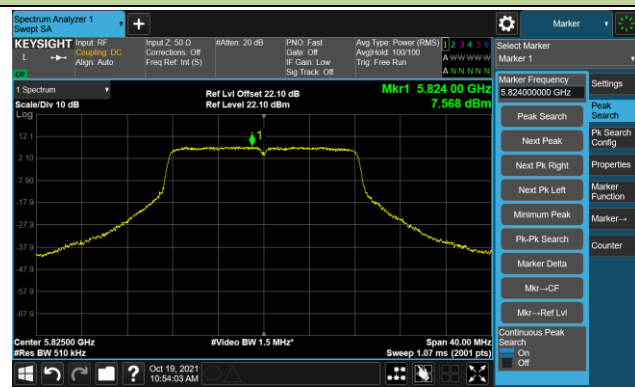
Channel 149 (5745MHz)



Channel 157 (5785MHz)

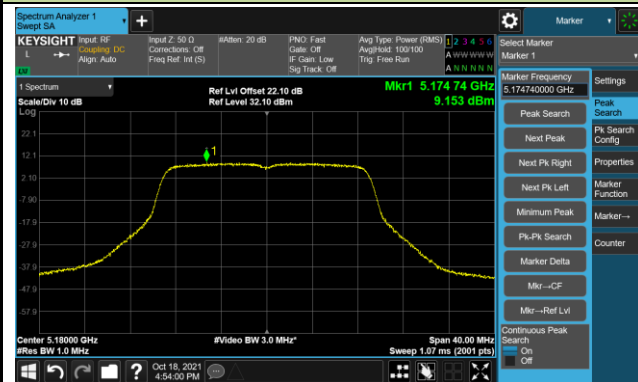


Channel 165 (5825MHz)

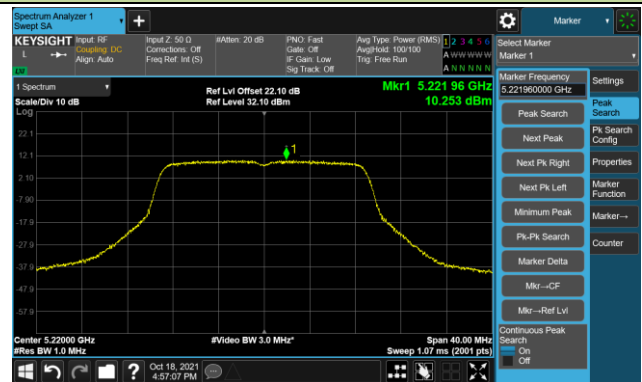


802.11ac-VHT20 Power Spectral Density- Ant 0

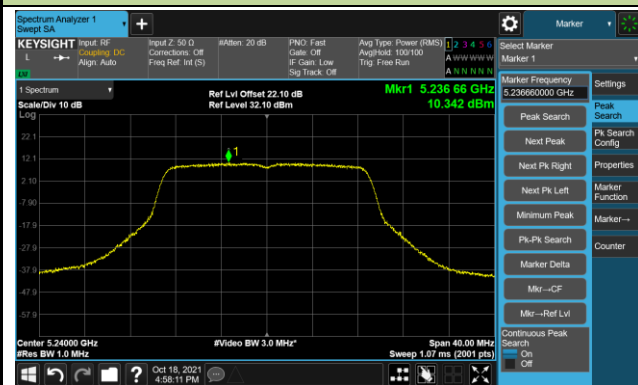
Channel 36 (5180MHz)



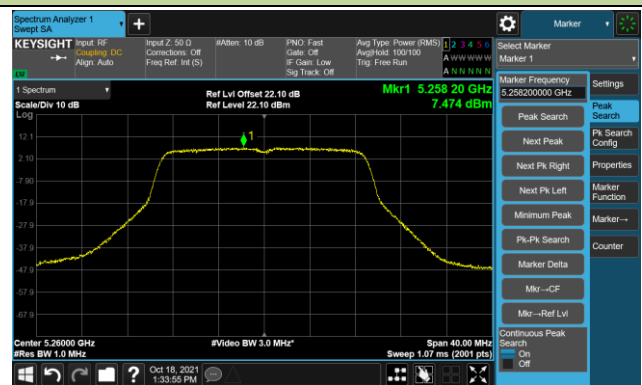
Channel 44 (5220MHz)



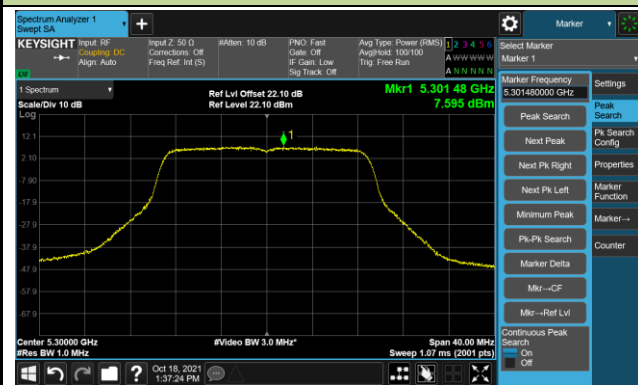
Channel 48 (5240MHz)



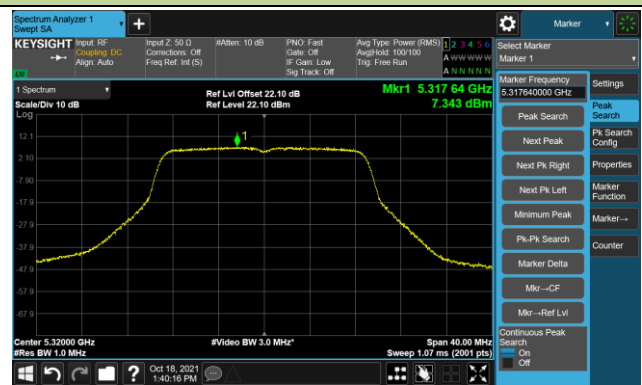
Channel 52 (5260MHz)



Channel 60 (5300MHz)



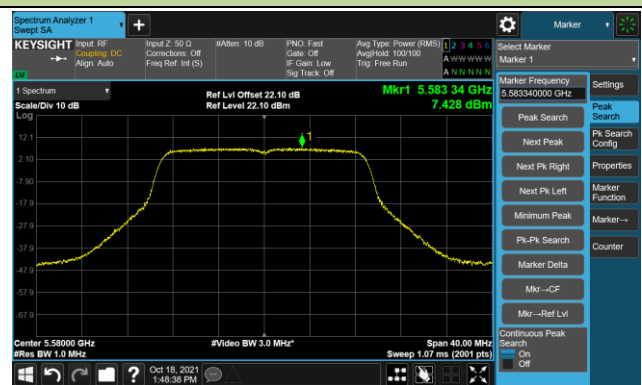
Channel 64 (5320MHz)



Channel 100 (5500MHz)

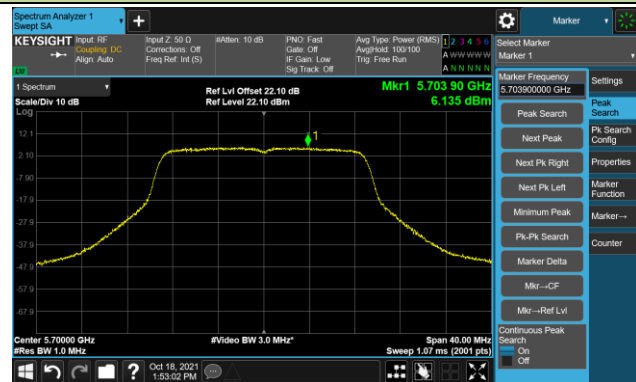


Channel 116 (5580MHz)

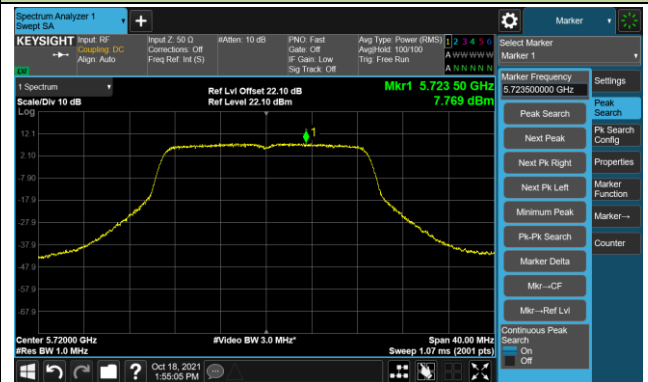


802.11ac-VHT20 Power Spectral Density- Ant 0

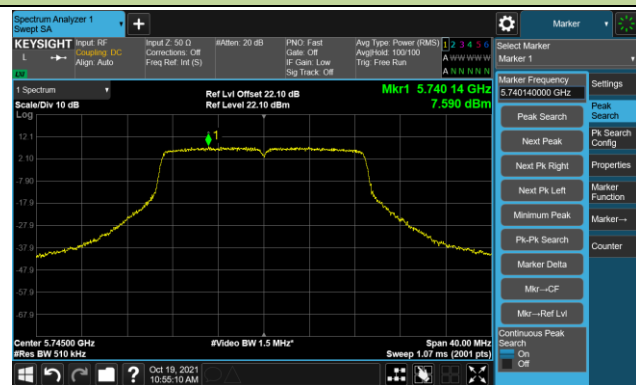
Channel 140 (5700MHz)



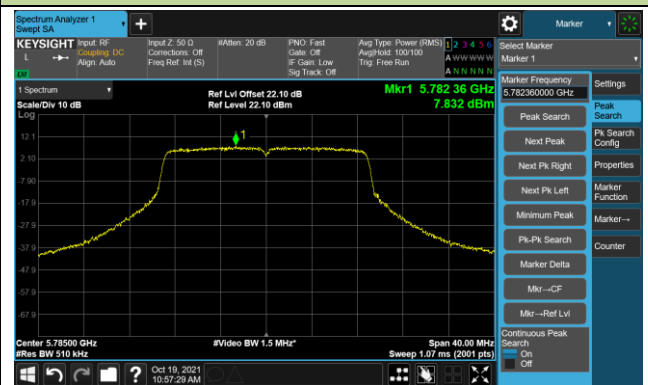
Channel 144(5720MHz)



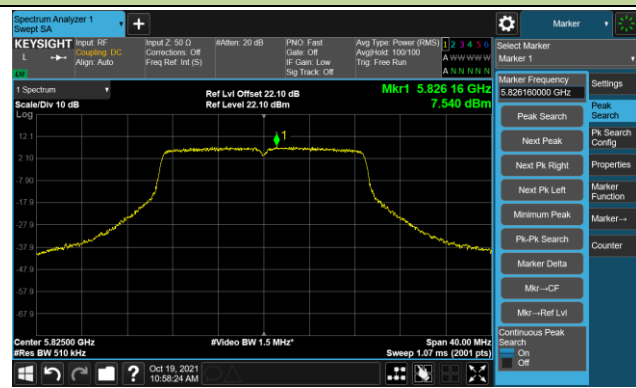
Channel 149 (5745MHz)



Channel 157 (5785MHz)

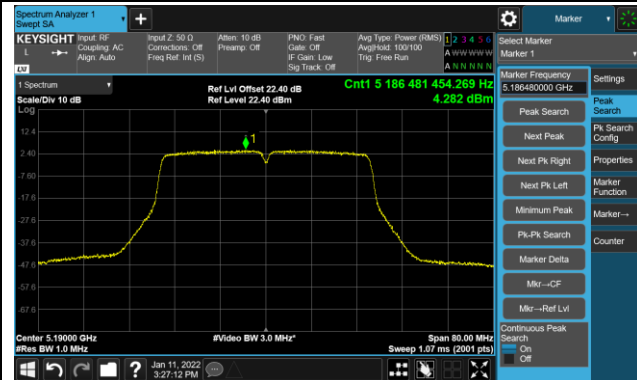


Channel 165 (5825MHz)

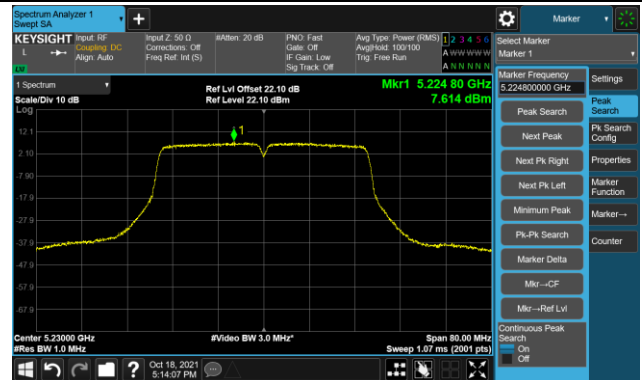


802.11ac-VHT40 Power Spectral Density- Ant 0

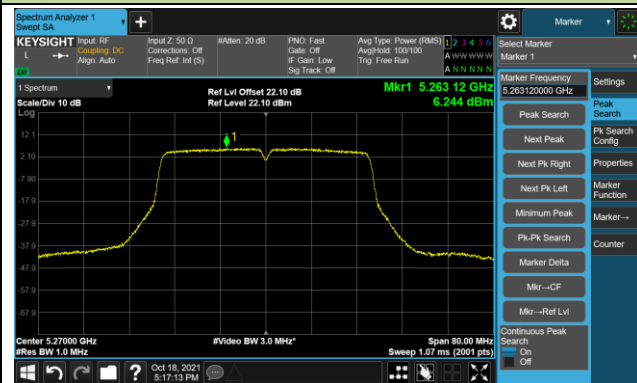
Channel 38 (5190MHz)



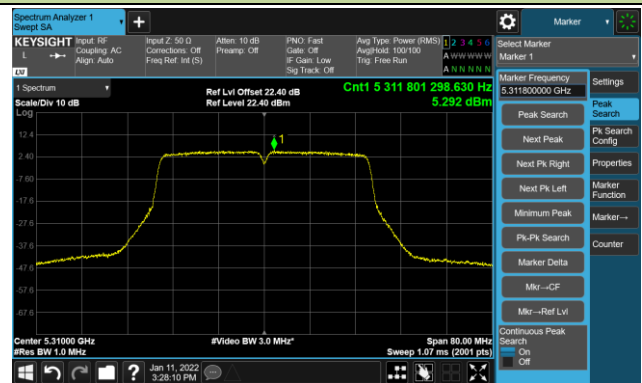
Channel 46 (5230MHz)



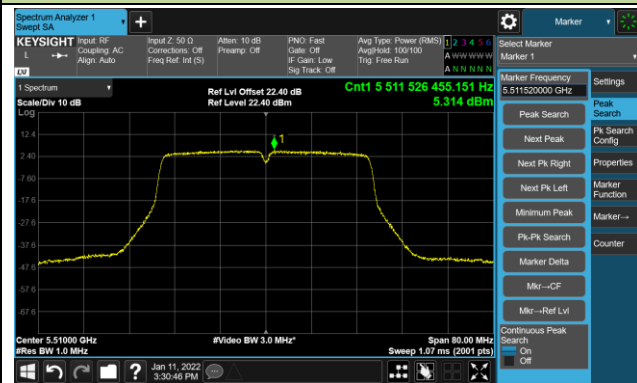
Channel 54 (5270MHz)



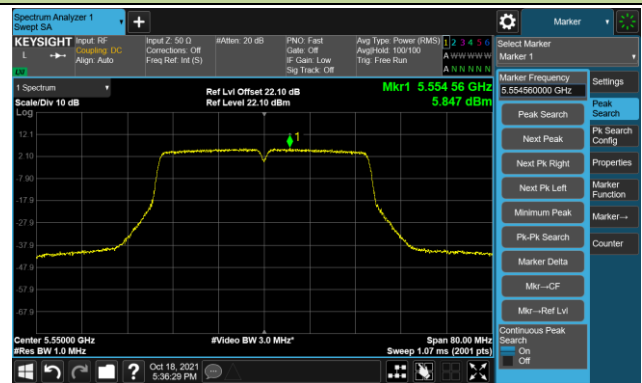
Channel 62 (5310MHz)



Channel 102 (5510MHz)



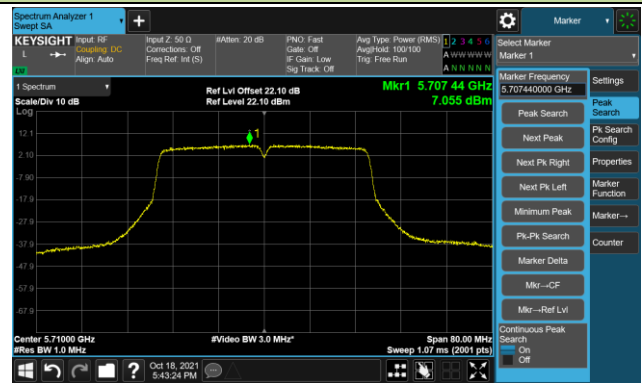
Channel 110 (5550MHz)



Channel 134 (5670MHz)

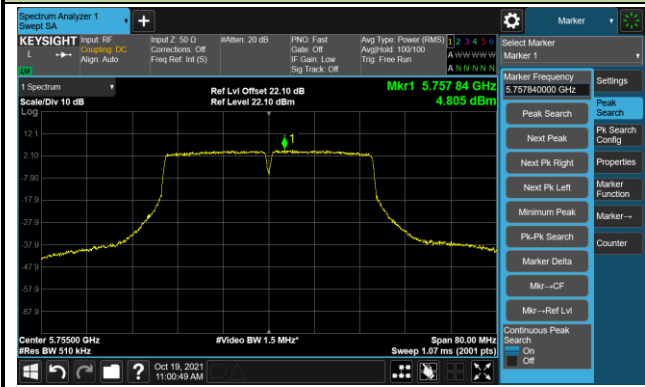


Channel 142(5710MHz)

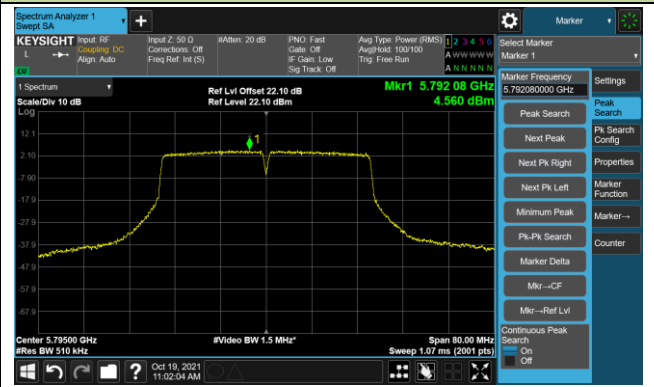


802.11ac-VHT40 Power Spectral Density- Ant 0

Channel 151 (5755MHz)

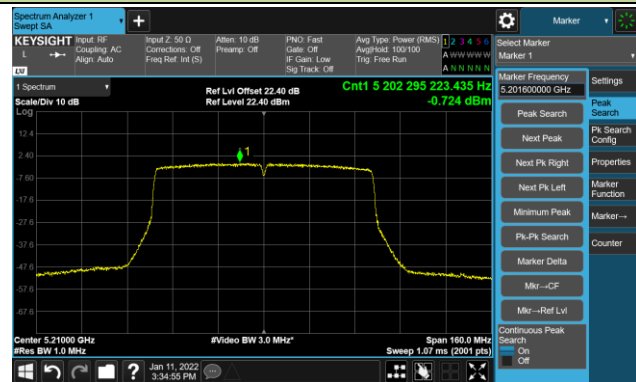


Channel 159 (5795MHz)

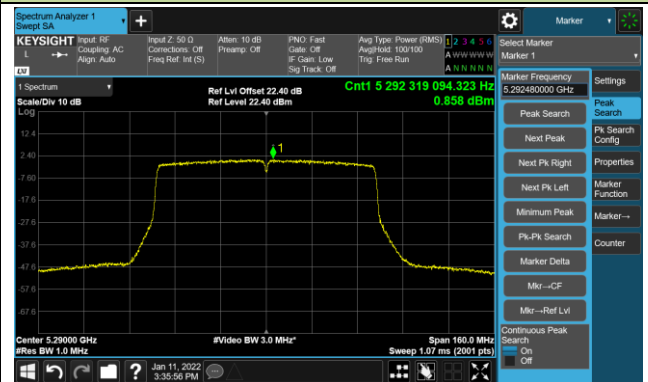


802.11ac-VHT80 Power Spectral Density- Ant 0

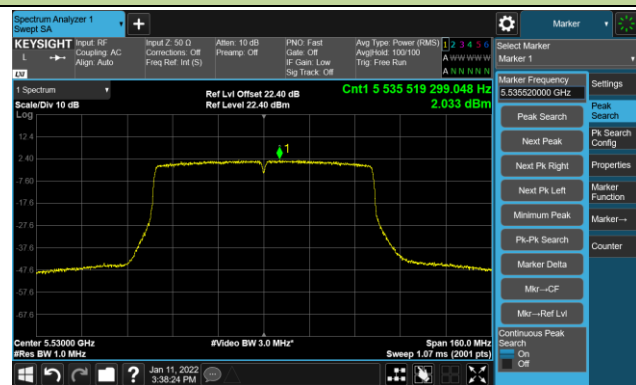
Channel 42 (5210MHz)



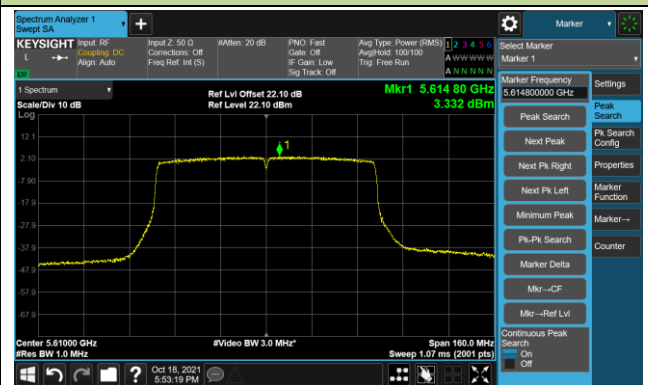
Channel 58 (5290MHz)



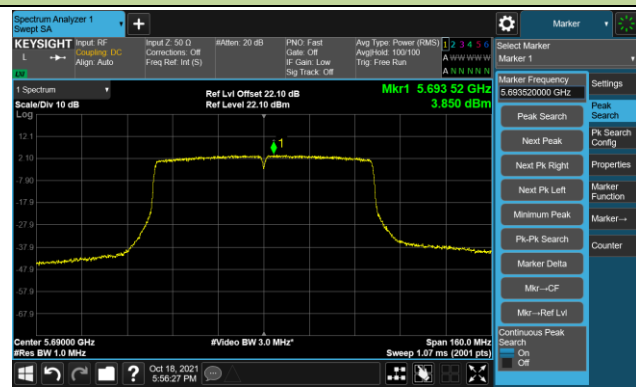
Channel 106 (5530MHz)



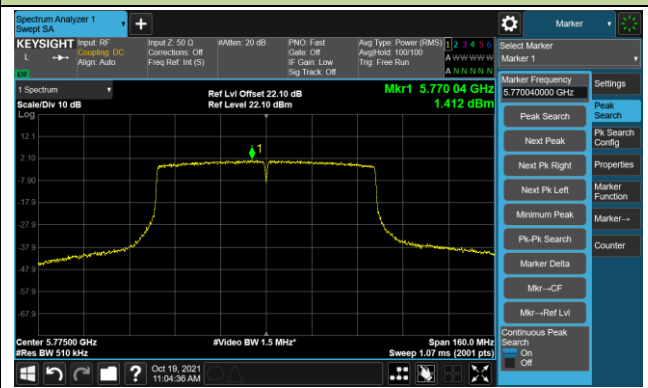
Channel 122 (5610MHz)



Channel 138 (5690MHz)

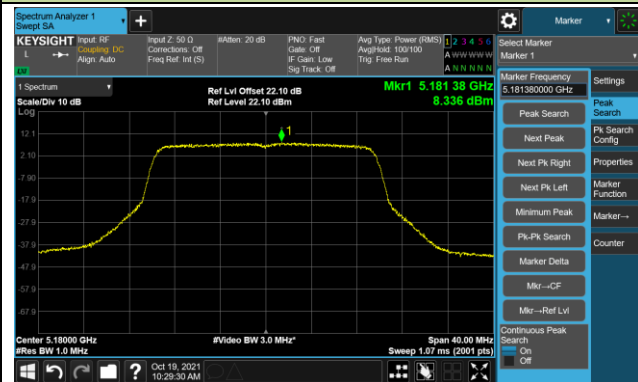


Channel 155 (5775MHz)

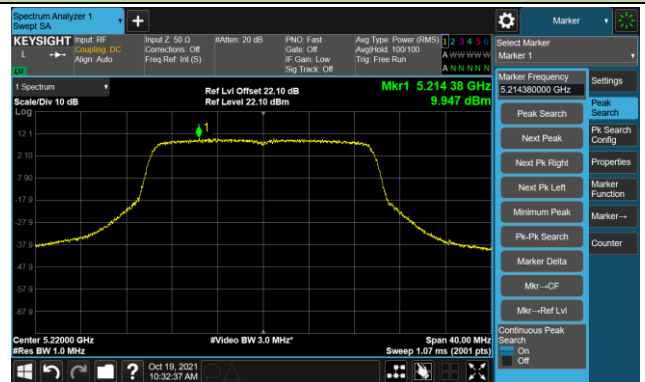


802.11ax-HE20 Power Spectral Density- Ant 0

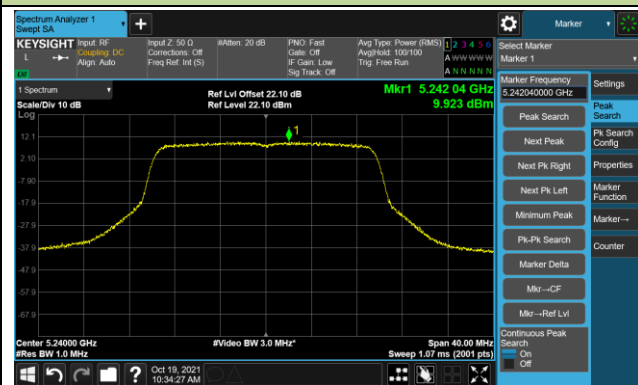
Channel 36 (5180MHz)



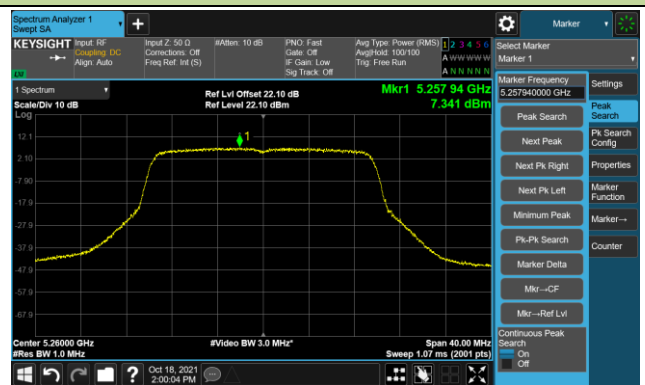
Channel 44 (5220MHz)



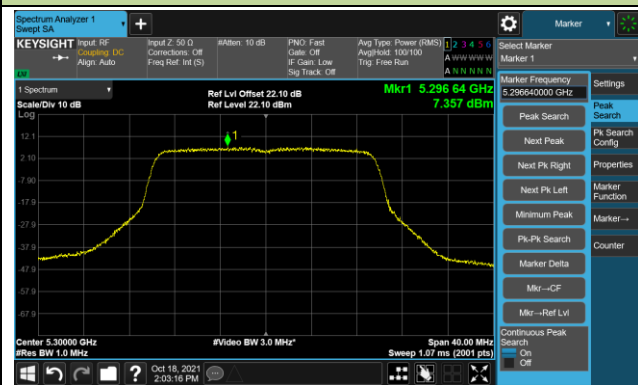
Channel 48 (5240MHz)



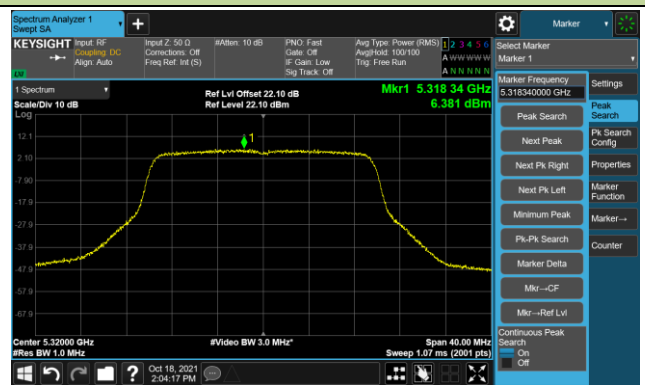
Channel 52 (5260MHz)



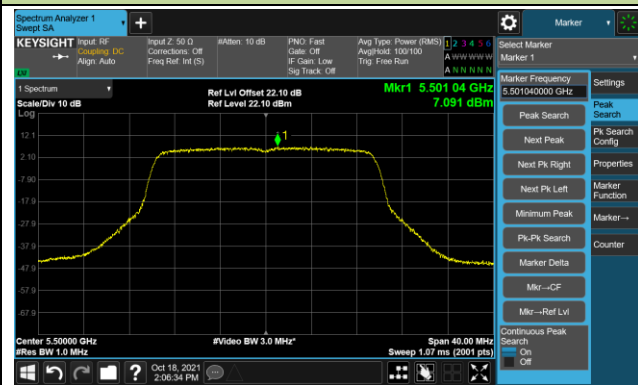
Channel 60 (5300MHz)



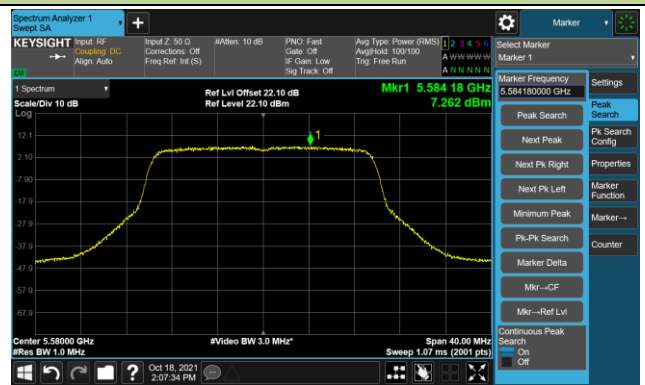
Channel 64 (5320MHz)



Channel 100 (5500MHz)

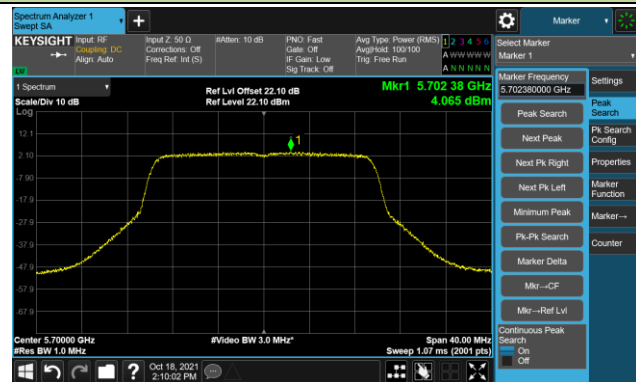


Channel 116 (5580MHz)

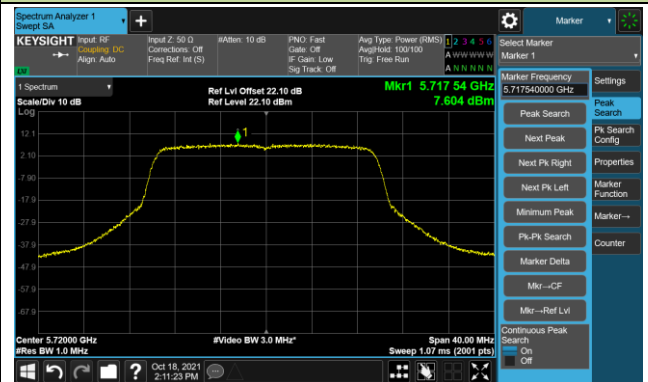


802.11ax-HE20 Power Spectral Density- Ant 0

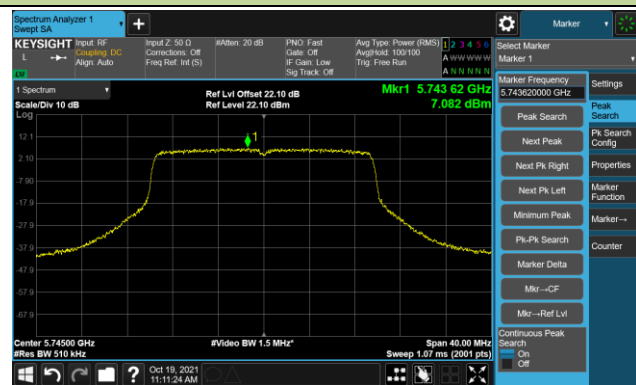
Channel 140 (5700MHz)



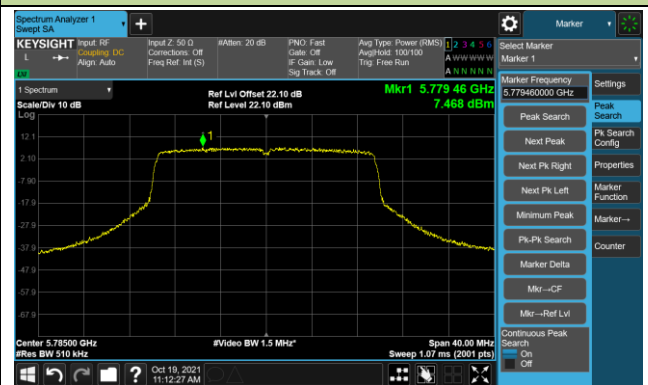
Channel 144(5720MHz)



Channel 149 (5745MHz)



Channel 157 (5785MHz)

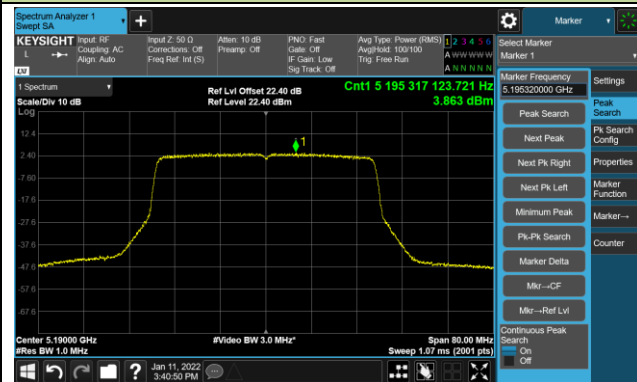


Channel 165 (5825MHz)

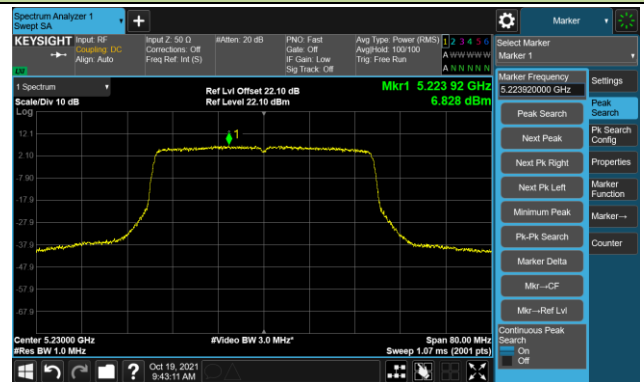


802.11ax-HE40 Power Spectral Density- Ant 0

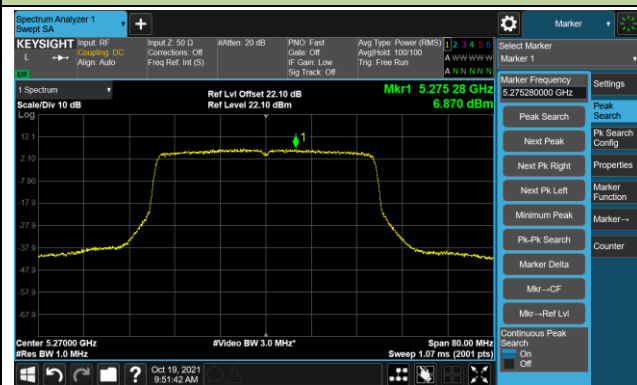
Channel 38 (5190MHz)



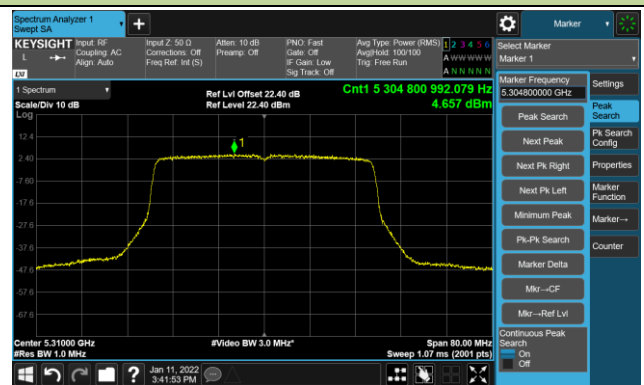
Channel 46 (5230MHz)



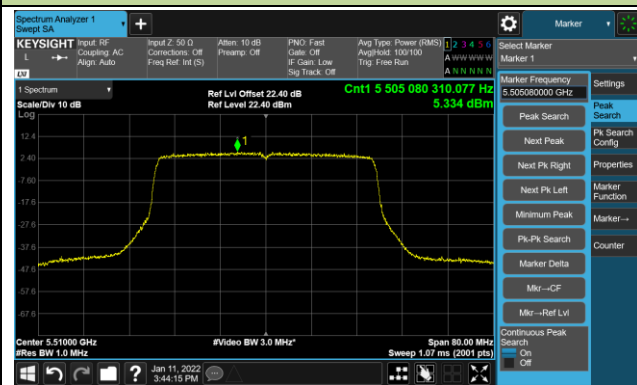
Channel 54 (5270MHz)



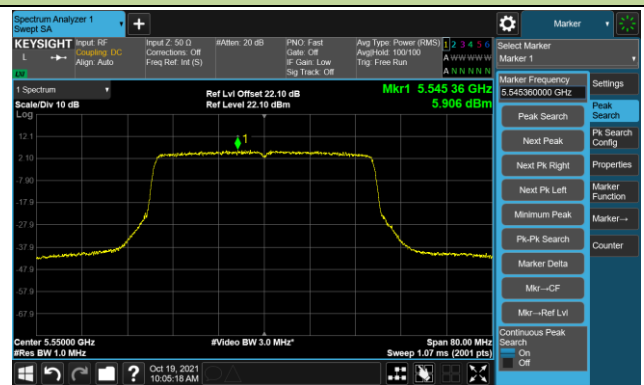
Channel 62 (5310MHz)



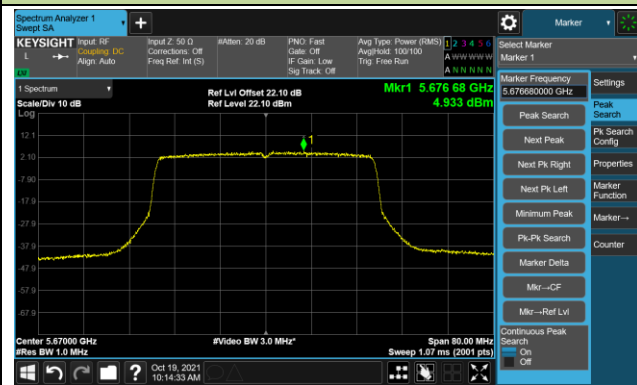
Channel 102 (5510MHz)



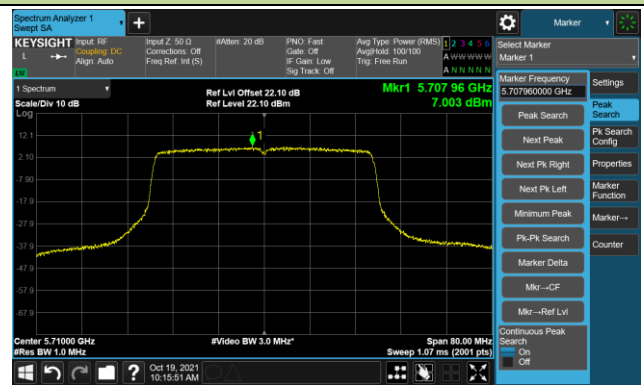
Channel 110 (5550MHz)



Channel 134 (5670MHz)



Channel 142(5710MHz)



802.11ax-HE40 Power Spectral Density- Ant 0

Channel 151 (5755MHz)

Channel 159 (5795MHz)

