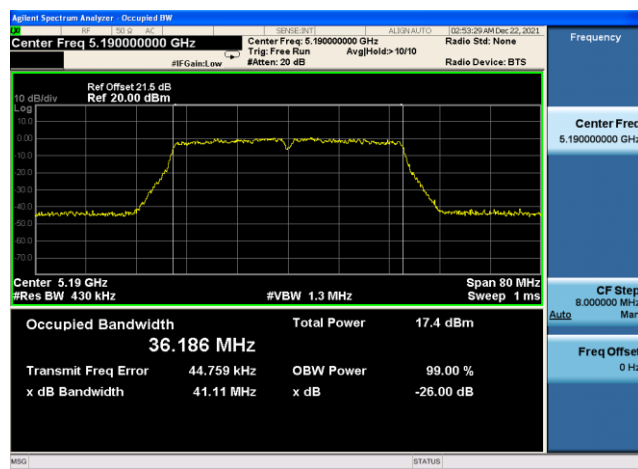
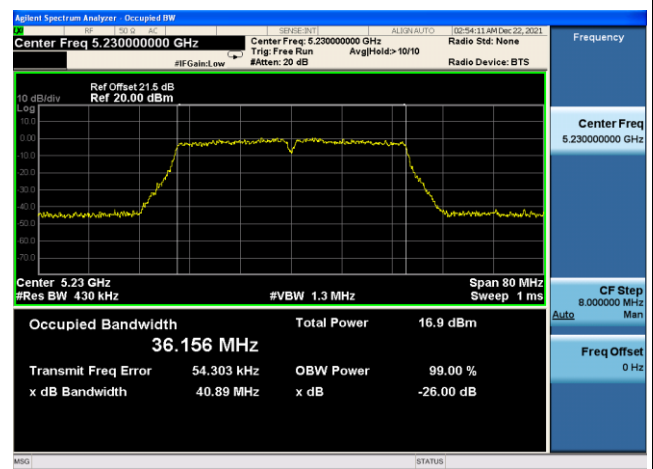


## 802.11ac-VHT40 26dB &amp; 99% Bandwidth

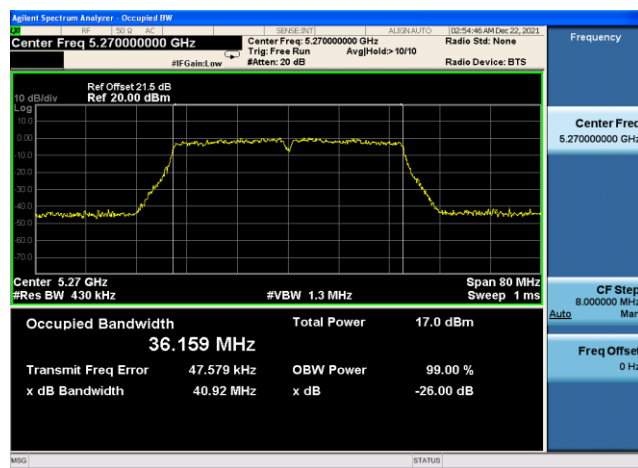
Channel 38 (5190MHz)



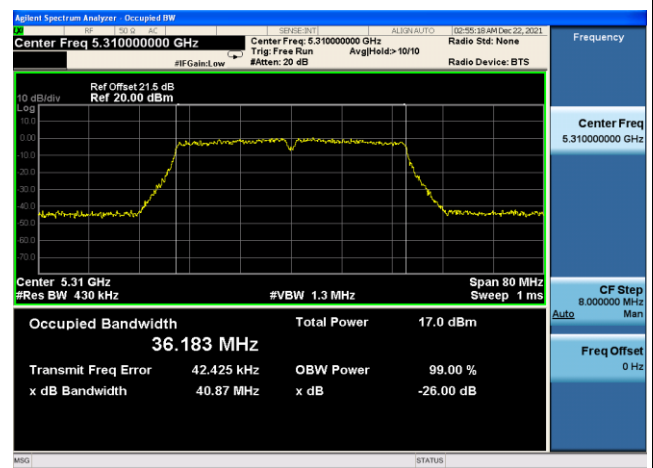
Channel 46 (5230MHz)



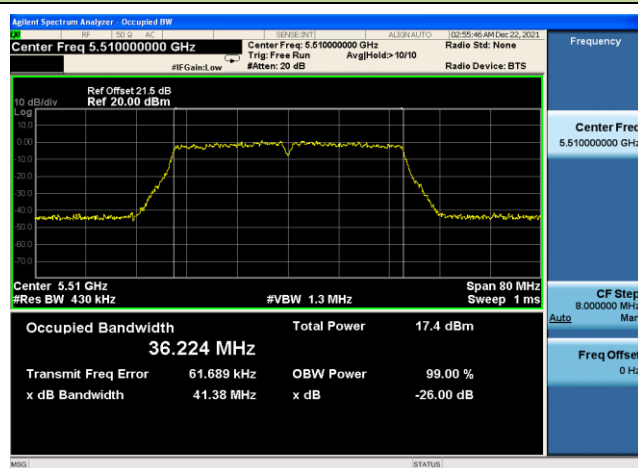
Channel 54 (5270MHz)



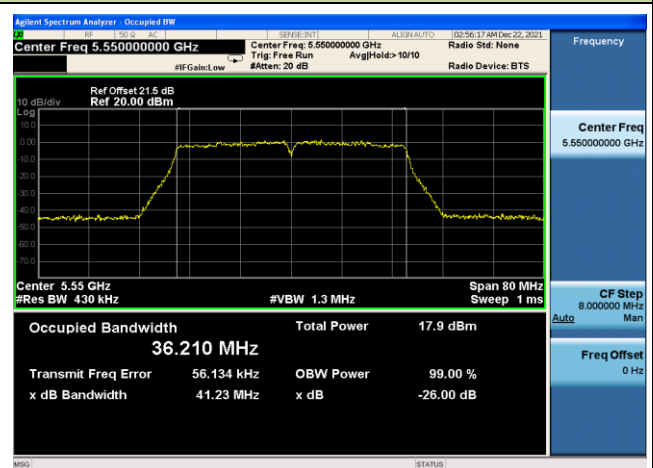
Channel 62 (5310MHz)

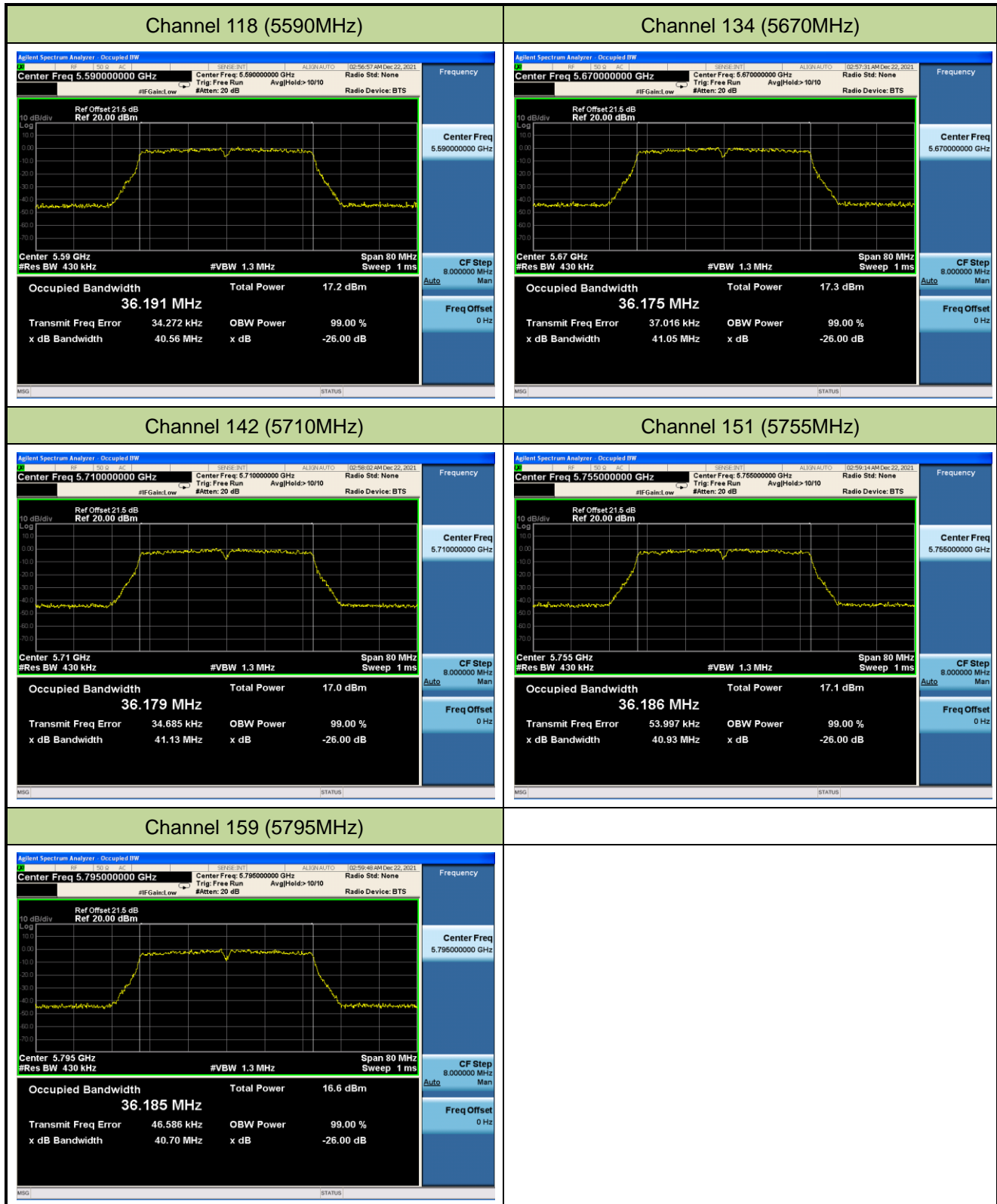


Channel 102 (5510MHz)



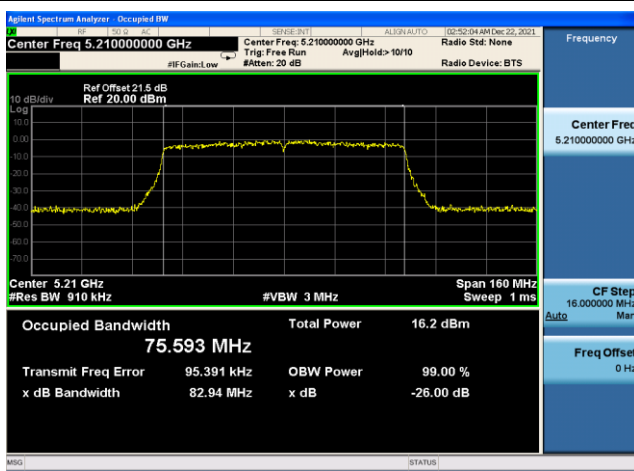
Channel 110 (5550MHz)



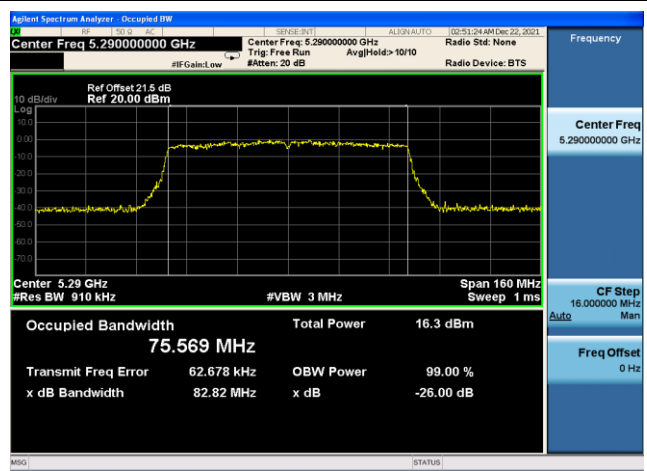


## 802.11ac-VHT80 26dB &amp; 99% Bandwidth

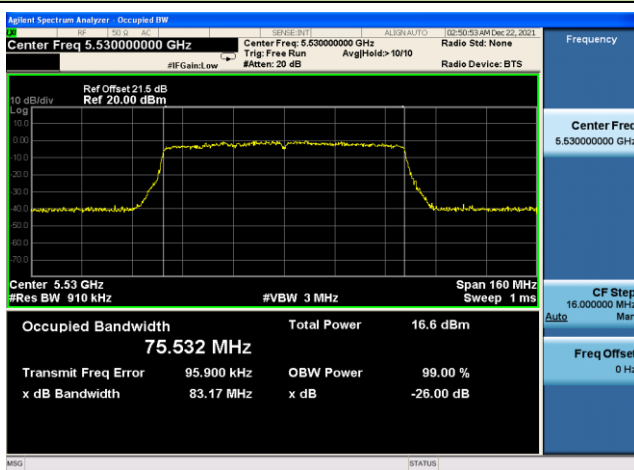
Channel 42 (5210MHz)



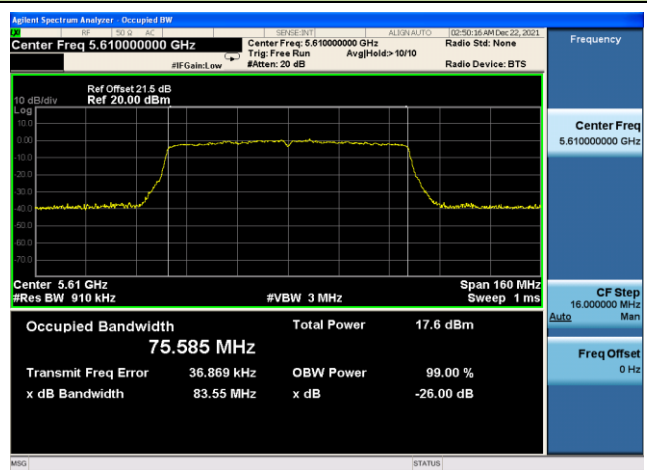
Channel 58 (5290MHz)



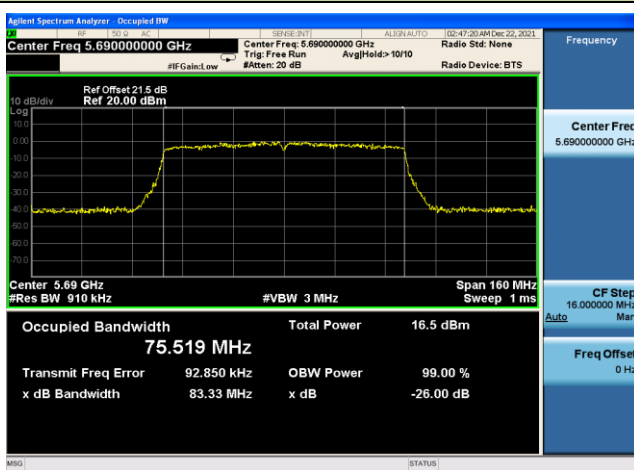
Channel 106 (5530MHz)



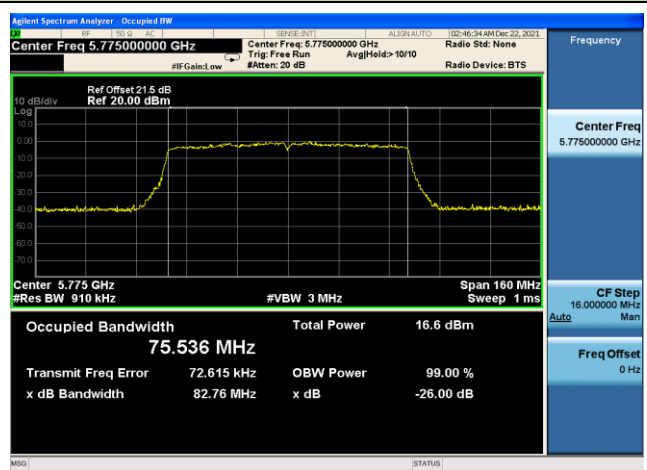
Channel 122 (5610MHz)



Channel 138 (5690MHz)



Channel 155 (5775MHz)



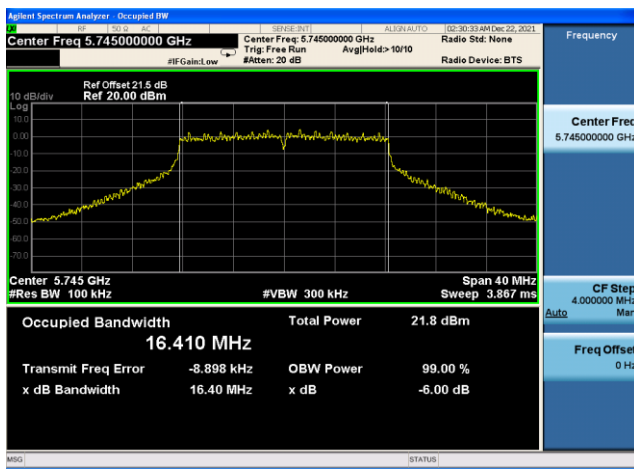
**A.3 6dB Bandwidth Test Result**

Test Site	NS-TR2	Test Engineer	Summer Tang
Test Date	2021/12/22		

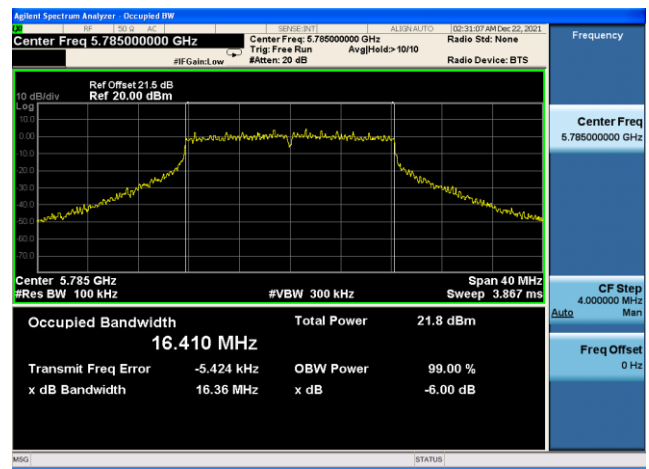
Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11a	24Mbps	149	5745	16.40	≥ 0.5	Pass
802.11a	24Mbps	157	5785	16.36	≥ 0.5	Pass
802.11a	24Mbps	165	5825	16.35	≥ 0.5	Pass
802.11n-HT20	MCS7	149	5745	17.74	≥ 0.5	Pass
802.11n-HT20	MCS7	157	5785	17.65	≥ 0.5	Pass
802.11n-HT20	MCS7	165	5825	17.71	≥ 0.5	Pass
802.11n-HT40	MCS0	151	5755	35.22	≥ 0.5	Pass
802.11n-HT40	MCS0	159	5795	35.82	≥ 0.5	Pass
802.11ac-VHT20	MCS7	149	5745	17.76	≥ 0.5	Pass
802.11ac-VHT20	MCS7	157	5785	17.72	≥ 0.5	Pass
802.11ac-VHT20	MCS7	165	5825	17.76	≥ 0.5	Pass
802.11ac-VHT40	MCS0	151	5755	35.19	≥ 0.5	Pass
802.11ac-VHT40	MCS0	159	5795	35.76	≥ 0.5	Pass
802.11ac-VHT80	MCS0	155	5775	75.40	≥ 0.5	Pass

802.11a 6dB Bandwidth

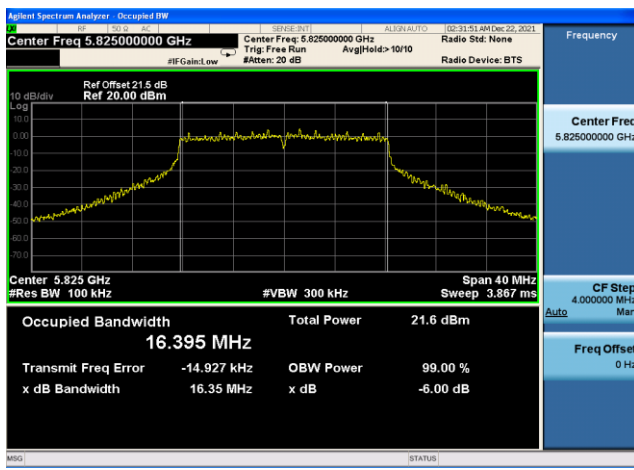
Channel 149 (5745MHz)



Channel 157 (5785MHz)

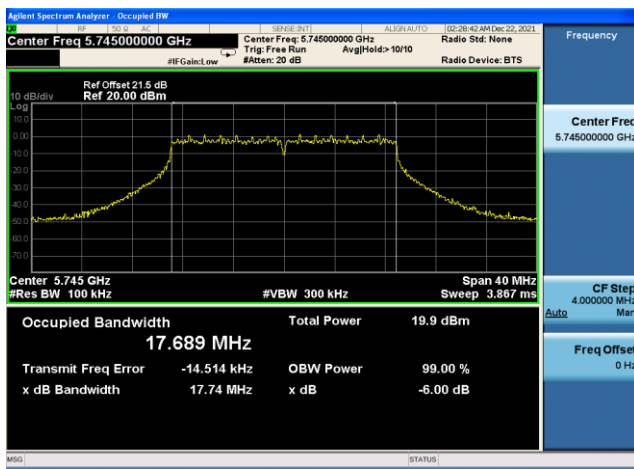


Channel 165 (5825MHz)

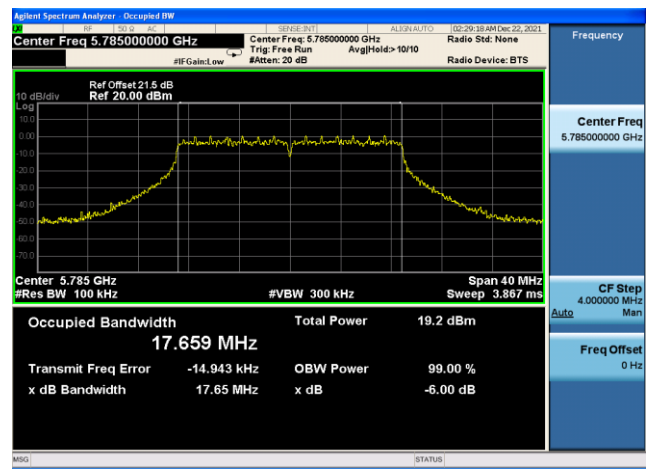


802.11n-HT20 6dB Bandwidth

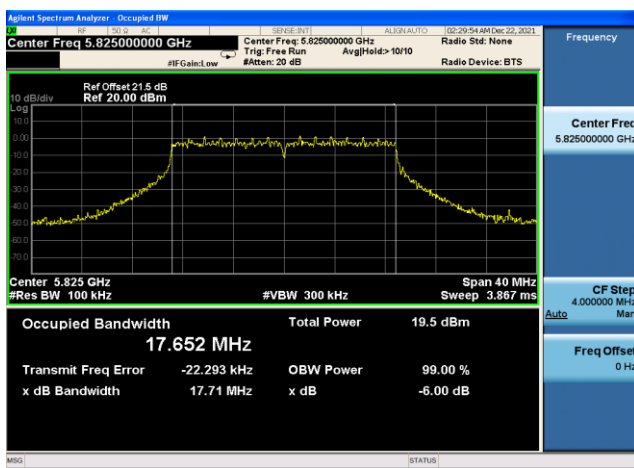
Channel 149 (5745MHz)



Channel 157 (5785MHz)

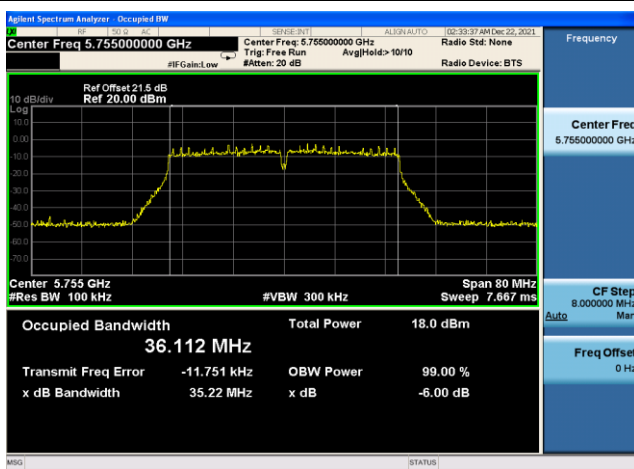


Channel 165 (5825MHz)

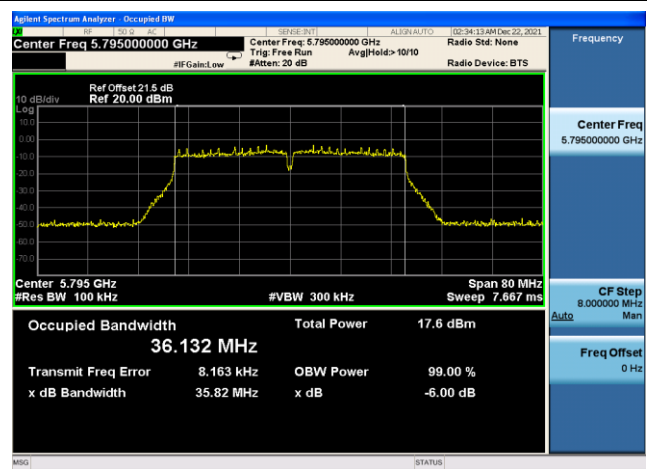


802.11n-HT40 6dB Bandwidth

Channel 151 (5755MHz)



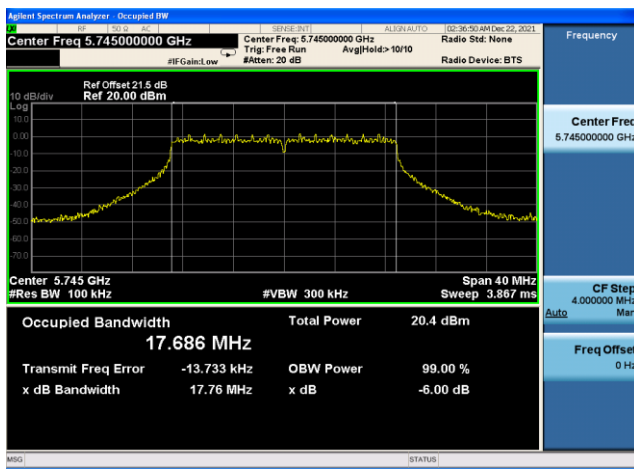
Channel 159 (5795MHz)



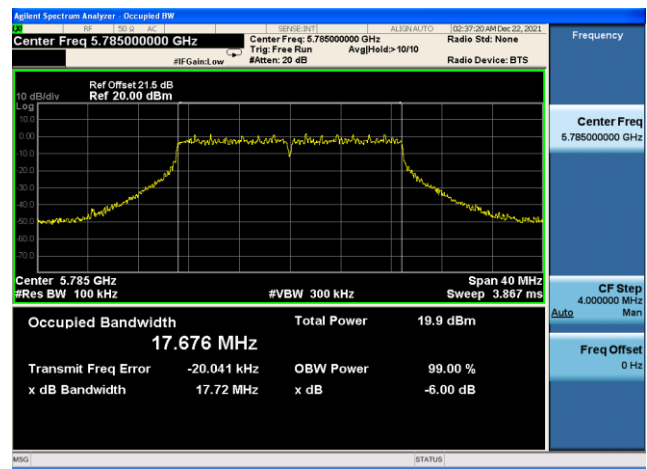


802.11ac-VHT20 6dB Bandwidth

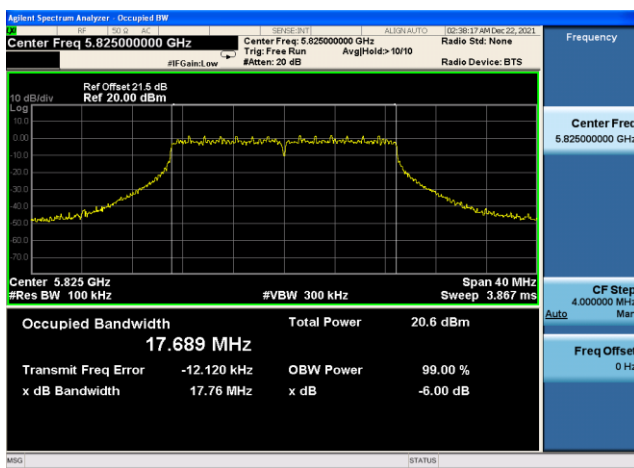
Channel 149 (5745MHz)



Channel 157 (5785MHz)

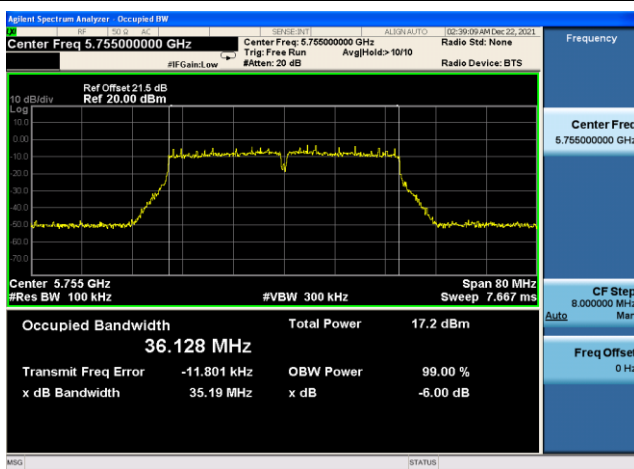


Channel 165 (5825MHz)

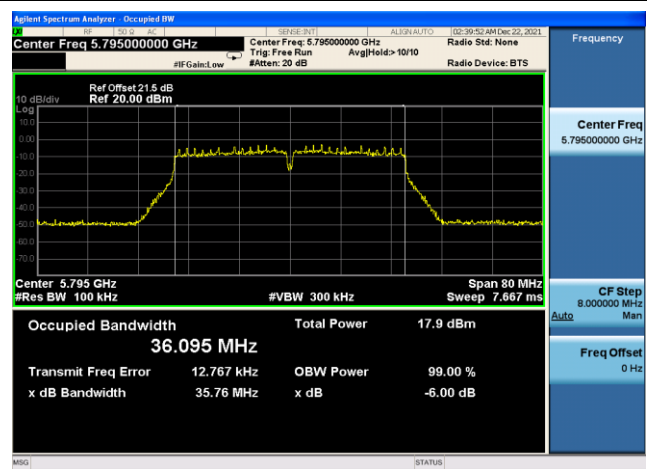


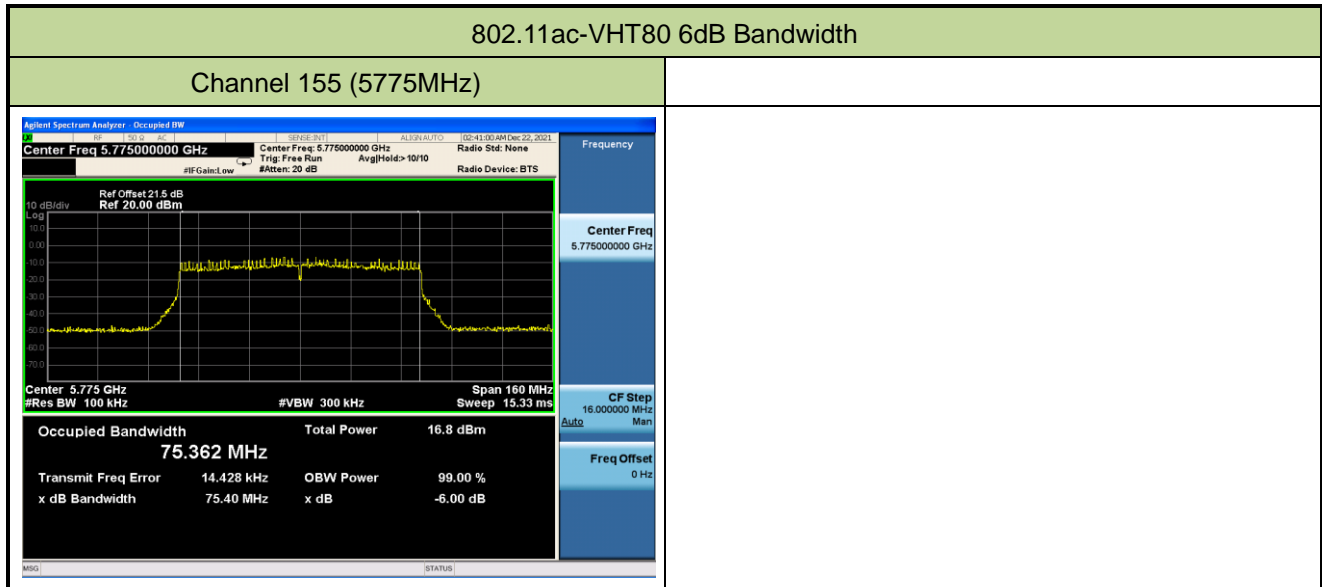
802.11ac-VHT40 6dB Bandwidth

Channel 151 (5755MHz)



Channel 159 (5795MHz)





#### A.4 Output Power Test Result

Output power test was verified over all data rates of each mode shown as below table, and then choose the maximum output power (gray marker) for final test of each channel.

Test Mode	Bandwidth	Channel No.	Frequency (MHz)	Data Rate/ MCS	Average Power (dBm)
802.11a	20	36	5180	6Mbps	7.63
				24Mbps	8.02
				54Mbps	7.61
802.11n	20	36	5180	MCS0	7.45
				MCS4	7.27
				MCS7	7.89
802.11n	40	38	5190	MCS0	8.01
				MCS4	6.78
				MCS7	6.31
802.11ac	20	36	5180	MCS0	7.38
				MCS4	7.37
				MCS7	7.69
802.11ac	40	38	5190	MCS0	7.74
				MCS4	7.54
				MCS7	7.53
802.11ac	80	42	5210	MCS0	7.81
				MCS5	7.04
				MCS9	5.89

Test Site	NS-TR2	Test Engineer	Summer Tang
Test Date	2021/12/16~2021/12/17		

Test Mode	Data Rate/ MCS	Ch. No.	Freq. (MHz)	Average Power (dBm)	Average Power Limit (dBm)
11a	24Mbps	36	5180	14.14	≤ 23.98
11a	24Mbps	44	5220	14.35	≤ 23.98
11a	24Mbps	48	5240	14.12	≤ 23.98
11a	24Mbps	52	5260	14.45	≤ 23.98
11a	24Mbps	60	5300	14.20	≤ 23.98
11a	24Mbps	64	5320	14.47	≤ 23.98
11a	24Mbps	100	5500	14.11	≤ 23.98
11a	24Mbps	116	5580	14.19	≤ 23.98
11a	24Mbps	120	5560	13.91	≤ 23.98
11a	24Mbps	140	5700	13.98	≤ 23.98
11a	24Mbps	144	5720	13.86	≤ 22.22
11a	24Mbps	149	5745	13.97	≤ 30.00
11a	24Mbps	157	5785	14.11	≤ 30.00
11a	24Mbps	165	5825	13.99	≤ 30.00
11n-HT20	MCS7	36	5180	11.92	≤ 23.98
11n-HT20	MCS7	44	5220	11.86	≤ 23.98
11n-HT20	MCS7	48	5240	12.33	≤ 23.98
11n-HT20	MCS7	52	5260	12.36	≤ 23.98
11n-HT20	MCS7	60	5300	12.18	≤ 23.98
11n-HT20	MCS7	64	5320	11.93	≤ 23.98
11n-HT20	MCS7	100	5500	11.91	≤ 23.98
11n-HT20	MCS7	116	5580	12.25	≤ 23.98
11n-HT20	MCS7	120	5600	12.23	≤ 23.98
11n-HT20	MCS7	140	5700	12.01	≤ 23.98
11n-HT20	MCS7	144	5720	11.89	≤ 22.22
11n-HT20	MCS7	149	5745	11.91	≤ 30.00
11n-HT20	MCS7	157	5785	11.84	≤ 30.00
11n-HT20	MCS7	165	5825	12.36	≤ 30.00

Test Mode	Data Rate/ MCS	Ch. No.	Freq. (MHz)	Average Power (dBm)	Average Power Limit (dBm)
11n-HT40	MCS0	38	5190	10.09	≤ 23.98
11n-HT40	MCS0	46	5230	9.81	≤ 23.98
11n-HT40	MCS0	54	5270	9.86	≤ 23.98
11n-HT40	MCS0	62	5310	10.01	≤ 23.98
11n-HT40	MCS0	102	5510	10.02	≤ 23.98
11n-HT40	MCS0	110	5550	10.24	≤ 23.98
11n-HT40	MCS0	118	5590	9.86	≤ 23.98
11n-HT40	MCS0	134	5670	10.31	≤ 23.98
11n-HT40	MCS0	142	5710	10.34	≤ 23.98
11n-HT40	MCS0	151	5755	10.21	≤ 30.00
11n-HT40	MCS0	159	5795	10.03	≤ 30.00
11ac-VHT20	MCS7	36	5180	12.11	≤ 23.98
11ac-VHT20	MCS7	44	5220	12.32	≤ 23.98
11ac-VHT20	MCS7	48	5240	12.16	≤ 23.98
11ac-VHT20	MCS7	52	5260	12.22	≤ 23.98
11ac-VHT20	MCS7	60	5300	12.02	≤ 23.98
11ac-VHT20	MCS7	64	5320	12.17	≤ 23.98
11ac-VHT20	MCS7	100	5500	12.13	≤ 23.98
11ac-VHT20	MCS7	116	5580	11.93	≤ 23.98
11ac-VHT20	MCS7	120	5600	11.99	≤ 23.98
11ac-VHT20	MCS7	140	5700	12.39	≤ 23.98
11ac-VHT20	MCS7	144	5720	11.81	≤ 22.22
11ac-VHT20	MCS7	149	5745	12.09	≤ 30.00
11ac-VHT20	MCS7	157	5785	11.95	≤ 30.00
11ac-VHT20	MCS7	165	5825	12.03	≤ 30.00

Test Mode	Data Rate/ MCS	Ch. No.	Freq. (MHz)	Average Power (dBm)	Average Power Limit (dBm)
11ac-VHT40	MCS0	38	5190	10.06	≤ 23.98
11ac-VHT40	MCS0	46	5230	10.03	≤ 23.98
11ac-VHT40	MCS0	54	5270	10.07	≤ 23.98
11ac-VHT40	MCS0	62	5310	10.26	≤ 23.98
11ac-VHT40	MCS0	102	5510	10.06	≤ 23.98
11ac-VHT40	MCS0	110	5550	10.31	≤ 23.98
11ac-VHT40	MCS0	118	5590	9.80	≤ 23.98
11ac-VHT40	MCS0	134	5670	9.88	≤ 23.98
11ac-VHT40	MCS0	142	5710	9.91	≤ 23.98
11ac-VHT40	MCS0	151	5755	9.95	≤ 30.00
11ac-VHT40	MCS0	159	5795	10.19	≤ 30.00
11ac-VHT80	MCS0	42	5210	7.91	≤ 23.98
11ac-VHT80	MCS0	58	5290	8.27	≤ 23.98
11ac-VHT80	MCS0	106	5530	8.11	≤ 23.98
11ac-VHT80	MCS0	122	5610	8.08	≤ 23.98
11ac-VHT80	MCS0	138	5690	8.14	≤ 23.98
11ac-VHT80	MCS0	155	5775	8.21	≤ 30.00

Note: Max Conducted Output Power Limit Calculation as below:

For Channel 144 (5720MHz),  $11+10*\log(5\text{MHz} + \text{BW}_{26\text{dB}}/2) = 22.22\text{dBm} < 23.98\text{dBm}$

**A.5 Power Spectral Density Test Result**

Test Site	NS-TR2	Test Engineer	Summer Tang
Test Date	2021/12/22		

Test Mode	Data Rate/ MCS	Ch. No.	Freq. (MHz)	PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/ MHz)
For NII-1/-2a/-2c Bands:							
11a	24Mbps	36	5180	4.79	93.49	5.08	≤ 11.00
11a	24Mbps	44	5220	4.66	93.49	4.95	≤ 11.00
11a	24Mbps	48	5240	4.32	93.49	4.61	≤ 11.00
11a	24Mbps	52	5260	4.73	93.49	5.02	≤ 11.00
11a	24Mbps	60	5300	4.19	93.49	4.48	≤ 11.00
11a	24Mbps	64	5320	4.47	93.49	4.76	≤ 11.00
11a	24Mbps	100	5500	4.33	93.49	4.62	≤ 11.00
11a	24Mbps	116	5580	4.89	93.49	5.18	≤ 11.00
11a	24Mbps	120	5600	4.24	93.49	4.53	≤ 11.00
11a	24Mbps	140	5700	4.26	93.49	4.55	≤ 11.00
11a	24Mbps	144	5720	4.28	93.49	4.57	≤ 11.00
11n-HT20	MCS7	36	5180	1.18	86.17	1.83	≤ 11.00
11n-HT20	MCS7	44	5220	0.75	86.17	1.40	≤ 11.00
11n-HT20	MCS7	48	5240	1.24	86.17	1.89	≤ 11.00
11n-HT20	MCS7	52	5260	1.49	86.17	2.14	≤ 11.00
11n-HT20	MCS7	60	5300	0.98	86.17	1.63	≤ 11.00
11n-HT20	MCS7	64	5320	0.64	86.17	1.29	≤ 11.00
11n-HT20	MCS7	100	5500	1.03	86.17	1.68	≤ 11.00
11n-HT20	MCS7	116	5580	1.03	86.17	1.68	≤ 11.00
11n-HT20	MCS7	120	5600	1.24	86.17	1.89	≤ 11.00
11n-HT20	MCS7	140	5700	1.01	86.17	1.66	≤ 11.00
11n-HT20	MCS7	144	5720	0.63	86.17	1.28	≤ 11.00

Test Mode	Data Rate/ MCS	Ch. No.	Freq. (MHz)	PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/ MHz)
For NII-1/-2a/-2c Bands:							
11n-HT40	MCS0	38	5190	-2.26	95.37	-2.05	≤ 11.00
11n-HT40	MCS0	46	5230	-2.77	95.37	-2.56	≤ 11.00
11n-HT40	MCS0	54	5270	-2.70	95.37	-2.49	≤ 11.00
11n-HT40	MCS0	62	5310	-2.72	95.37	-2.51	≤ 11.00
11n-HT40	MCS0	102	5510	-2.69	95.37	-2.48	≤ 11.00
11n-HT40	MCS0	110	5550	-2.12	95.37	-1.91	≤ 11.00
11n-HT40	MCS0	118	5590	-2.70	95.37	-2.49	≤ 11.00
11n-HT40	MCS0	134	5670	-2.26	95.37	-2.05	≤ 11.00
11n-HT40	MCS0	142	5710	-2.27	95.37	-2.06	≤ 11.00
11ac-VHT20	MCS7	36	5180	1.82	86.03	2.47	≤ 11.00
11ac-VHT20	MCS7	44	5220	1.59	86.03	2.24	≤ 11.00
11ac-VHT20	MCS7	48	5240	1.40	86.03	2.05	≤ 11.00
11ac-VHT20	MCS7	52	5260	1.30	86.03	1.95	≤ 11.00
11ac-VHT20	MCS7	60	5300	1.32	86.03	1.97	≤ 11.00
11ac-VHT20	MCS7	64	5320	1.25	86.03	1.90	≤ 11.00
11ac-VHT20	MCS7	100	5500	1.30	86.03	1.95	≤ 11.00
11ac-VHT20	MCS7	116	5580	1.21	86.03	1.86	≤ 11.00
11ac-VHT20	MCS7	120	5600	1.34	86.03	1.99	≤ 11.00
11ac-VHT20	MCS7	140	5700	1.51	86.03	2.16	≤ 11.00
11ac-VHT20	MCS7	144	5720	1.61	86.03	2.26	≤ 11.00
11ac-VHT40	MCS0	38	5190	-2.40	95.88	-2.22	≤ 11.00
11ac-VHT40	MCS0	46	5230	-2.67	95.88	-2.49	≤ 11.00
11ac-VHT40	MCS0	54	5270	-2.54	95.88	-2.36	≤ 11.00
11ac-VHT40	MCS0	62	5310	-2.76	95.88	-2.58	≤ 11.00
11ac-VHT40	MCS0	102	5510	-2.74	95.88	-2.56	≤ 11.00
11ac-VHT40	MCS0	110	5550	-2.28	95.88	-2.10	≤ 11.00
11ac-VHT40	MCS0	118	5590	-2.70	95.88	-2.52	≤ 11.00
11ac-VHT40	MCS0	134	5670	-2.71	95.88	-2.53	≤ 11.00
11ac-VHT40	MCS0	142	5710	-2.81	95.88	-2.63	≤ 11.00



Test Mode	Data Rate/ MCS	Ch. No.	Freq. (MHz)	AVG PSD (dBm/MHz)	Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/ MHz)
For NII-1/-2a/-2c Bands:							
11ac-VHT80	MCS0	42	5210	-7.54	92.60	-7.21	≤ 11.00
11ac-VHT80	MCS0	58	5290	-7.65	92.60	-7.32	≤ 11.00
11ac-VHT80	MCS0	106	5530	-7.51	92.60	-7.18	≤ 11.00
11ac-VHT80	MCS0	122	5610	-7.35	92.60	-7.02	≤ 11.00
11ac-VHT80	MCS0	138	5690	-7.73	92.60	-7.40	≤ 11.00

Note: When EUT duty cycle < 98%, the total PSD (dBm/MHz) = AVGPST (dBm/MHz) +10\*log (1/Duty cycle).

When EUT duty cycle ≥ 98%, the total PSD (dBm/MHz) = AVGPST (dBm/MHz).

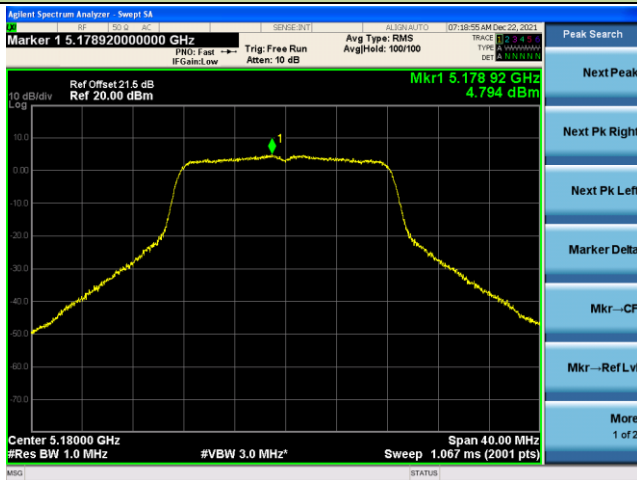
Test Mode	Data Rate/ MCS	Ch. No.	Freq. (MHz)	AVG PSD (dBm/510kHz)	Duty Cycle (%)	Total PSD (dBm/510kHz)	PSD Limit (dBm/500kHz)
For NII-3 Band:							
11a	24Mbps	149	5745	1.28	93.49	1.57	≤ 30.00
11a	24Mbps	157	5785	1.33	93.49	1.62	≤ 30.00
11a	24Mbps	165	5825	1.47	93.49	1.76	≤ 30.00
11n-HT20	MCS7	149	5745	-1.89	86.17	-1.24	≤ 30.00
11n-HT20	MCS7	157	5785	-2.21	86.17	-1.56	≤ 30.00
11n-HT20	MCS7	165	5825	-2.09	86.17	-1.44	≤ 30.00
11n-HT40	MCS0	151	5755	-5.84	95.37	-5.63	≤ 30.00
11n-HT40	MCS0	159	5795	-5.85	95.37	-5.64	≤ 30.00
11ac-VHT20	MCS7	149	5745	-1.43	86.03	-0.78	≤ 30.00
11ac-VHT20	MCS7	157	5785	-1.34	86.03	-0.69	≤ 30.00
11ac-VHT20	MCS7	165	5825	-1.17	86.03	-0.52	≤ 30.00
11ac-VHT40	MCS0	151	5755	-6.18	95.88	-6.00	≤ 30.00
11ac-VHT40	MCS0	159	5795	-6.03	95.88	-5.85	≤ 30.00
11ac-VHT80	MCS0	155	5775	-10.60	92.60	-10.27	≤ 30.00

Note: When EUT duty cycle < 98%, the total PSD (dBm/510kHz) = AVGPSSD (dBm/510kHz) +10\*log (1/Duty cycle).

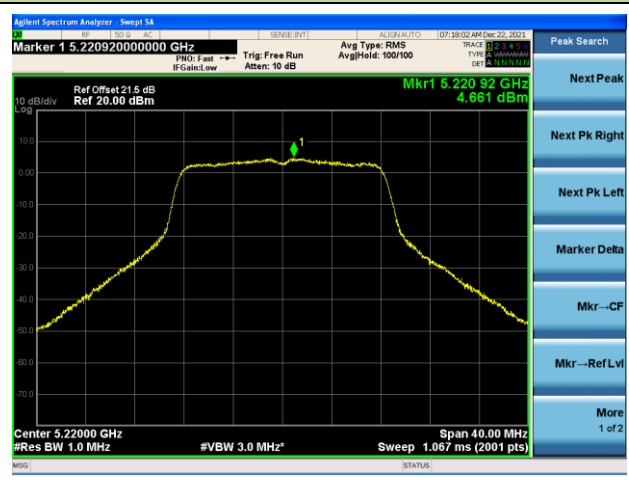
When EUT duty cycle ≥ 98%, the total PSD (dBm/510kHz) = AVGPSSD (dBm/510kHz).

## 802.11a Power Spectral Density

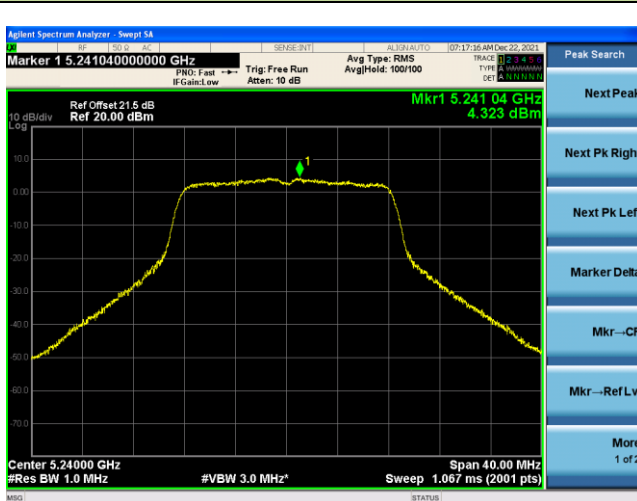
Channel 36 (5180MHz)



Channel 44 (5220MHz)



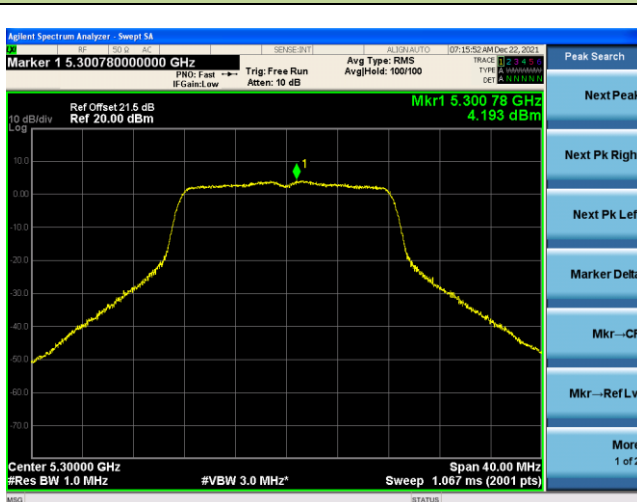
Channel 48 (5240MHz)



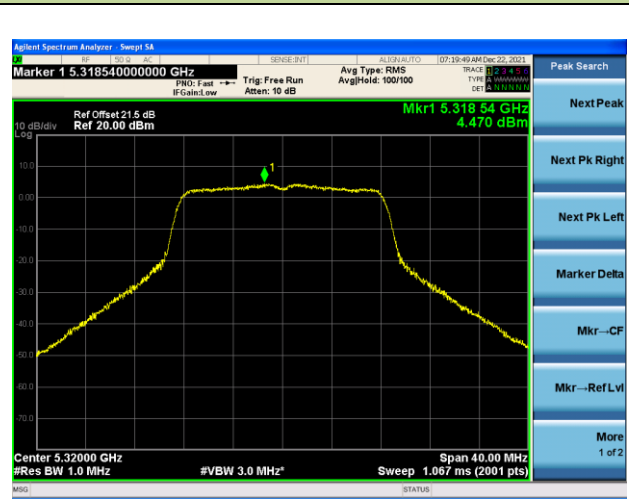
Channel 52 (5260MHz)

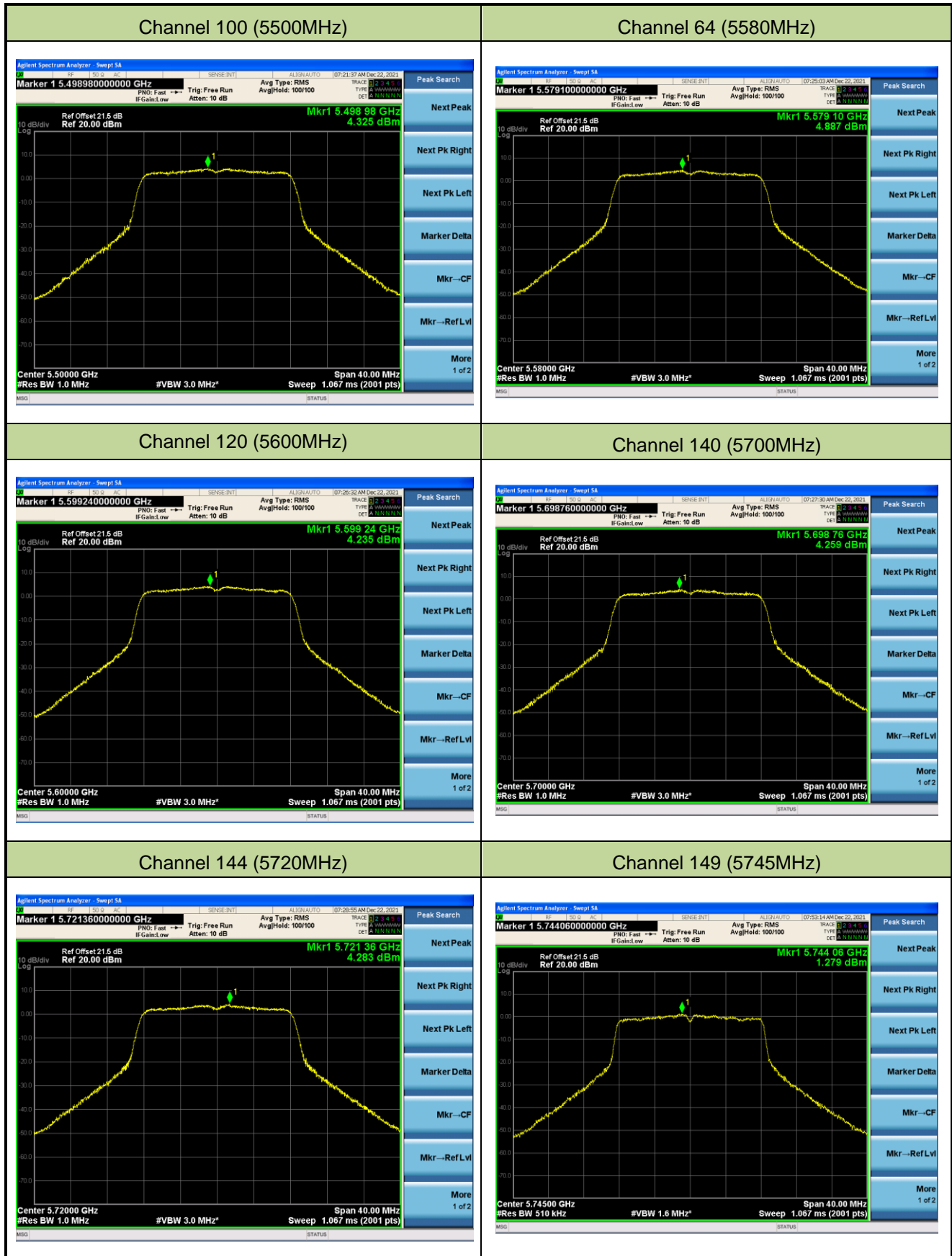


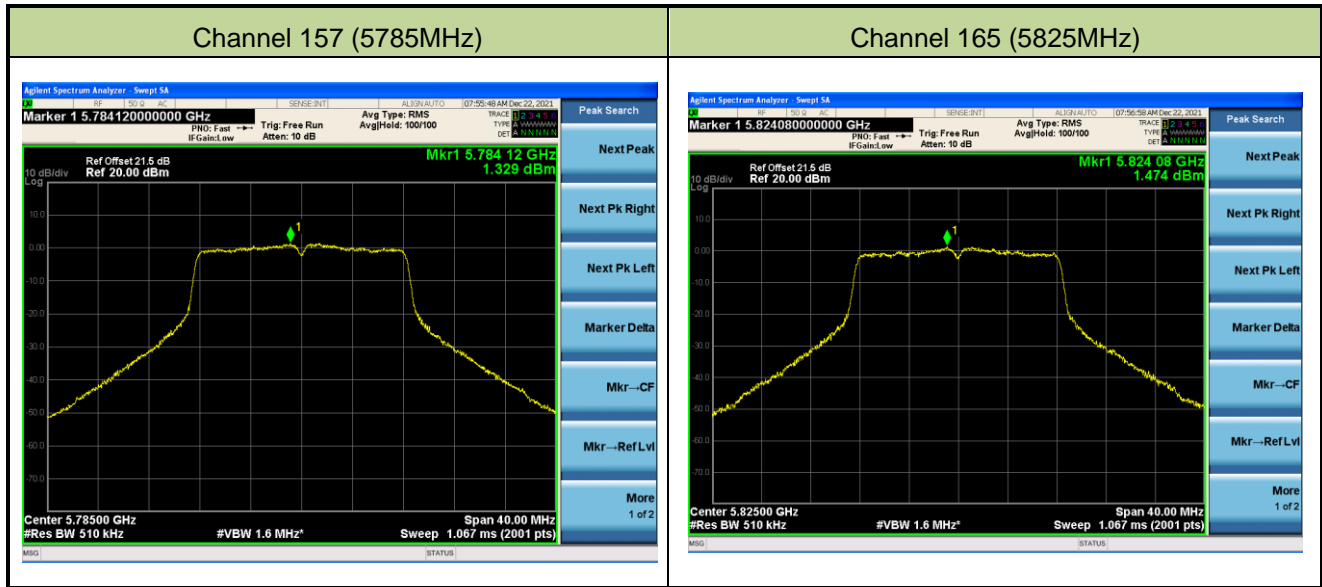
Channel 60 (5300MHz)



Channel 64 (5320MHz)

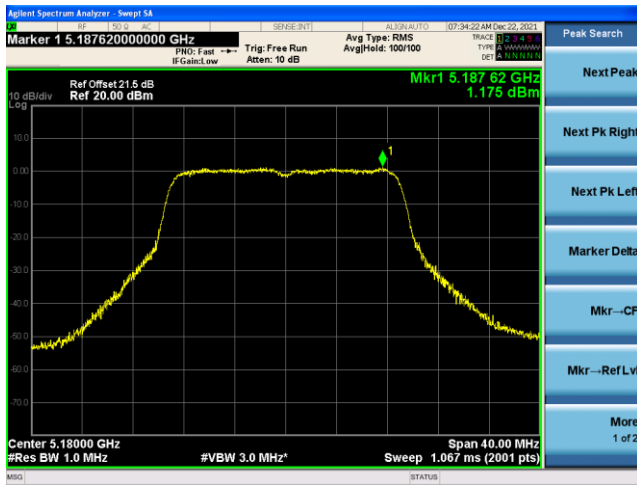




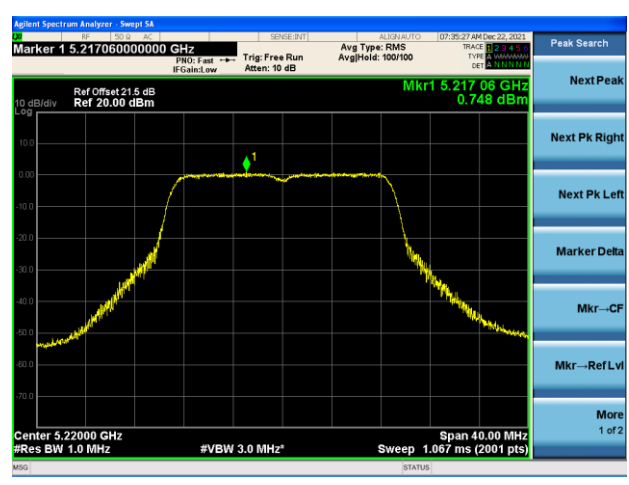


## 802.11n-HT20 Power Spectral Density

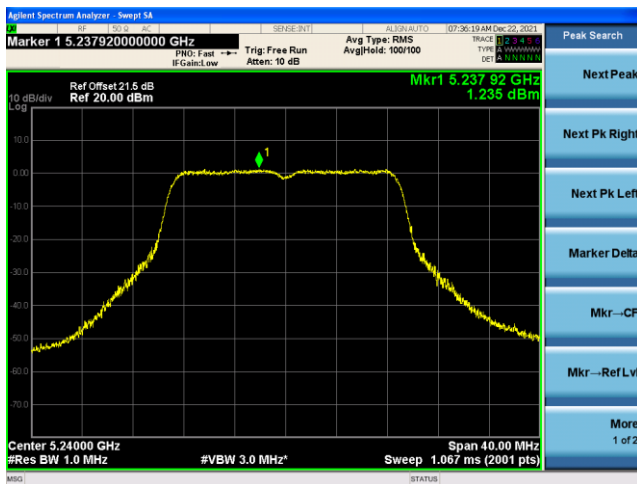
Channel 36 (5180MHz)



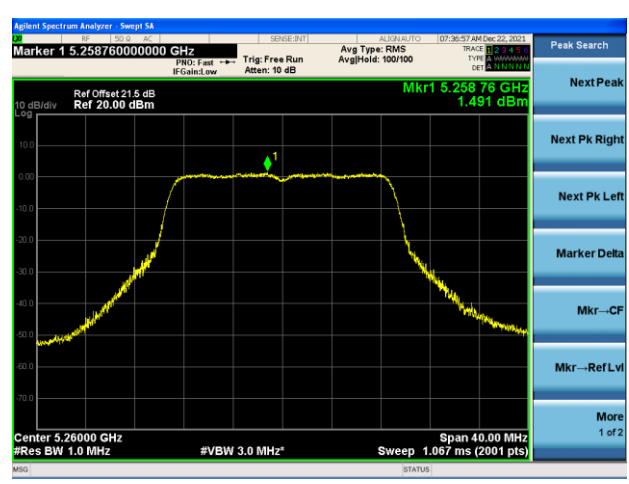
Channel 44 (5220MHz)



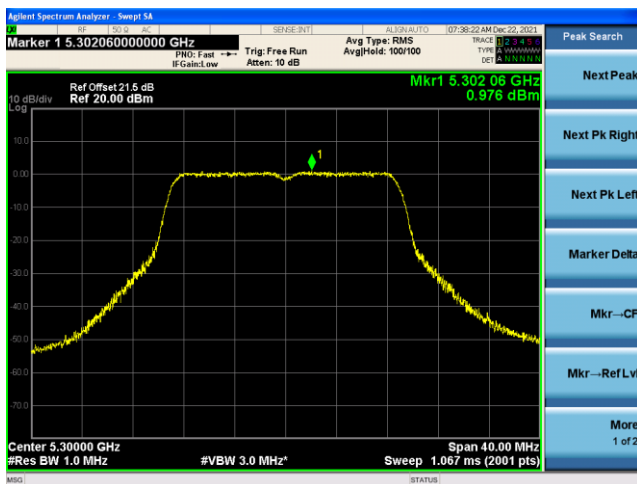
Channel 48 (5240MHz)



Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)

