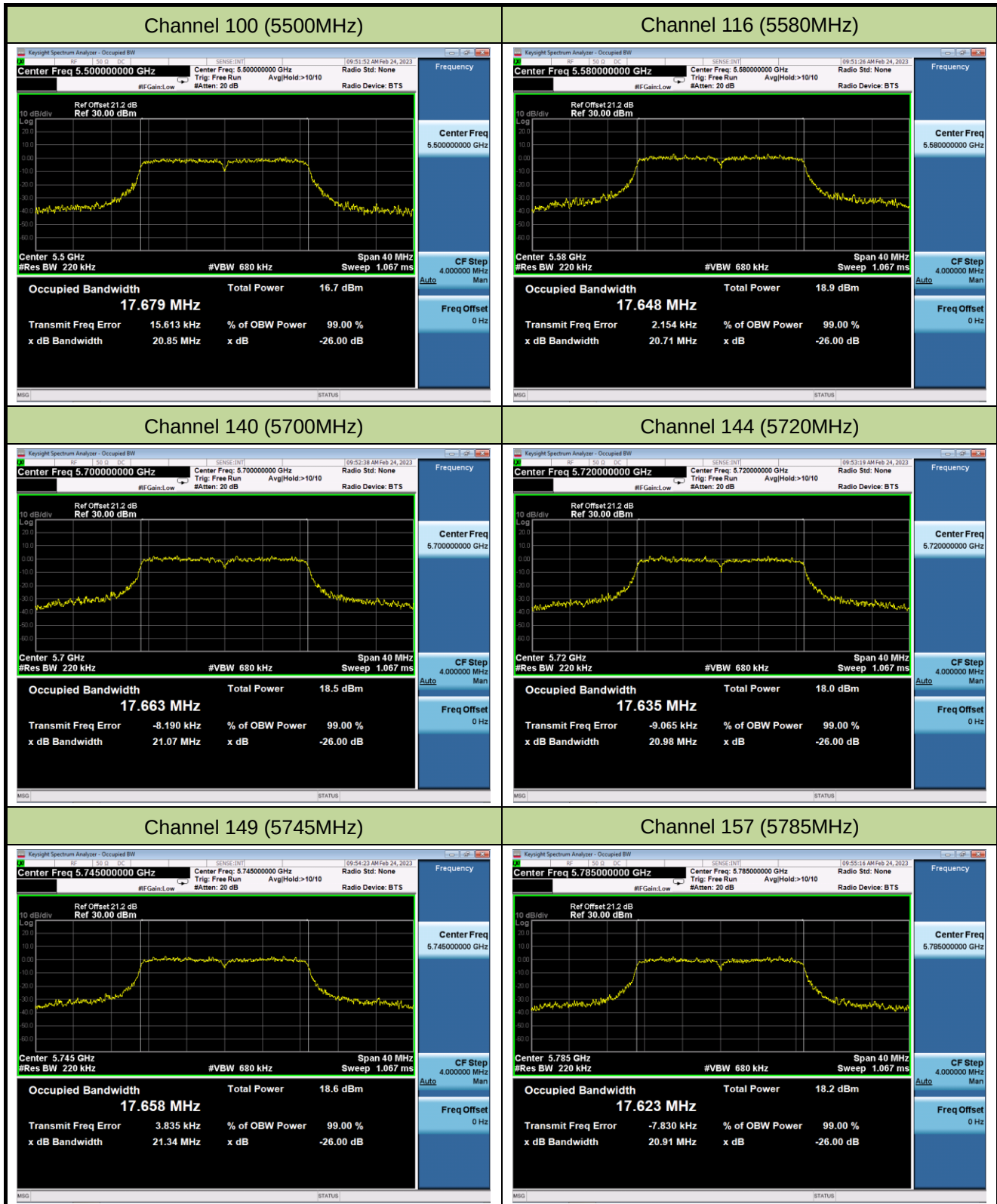
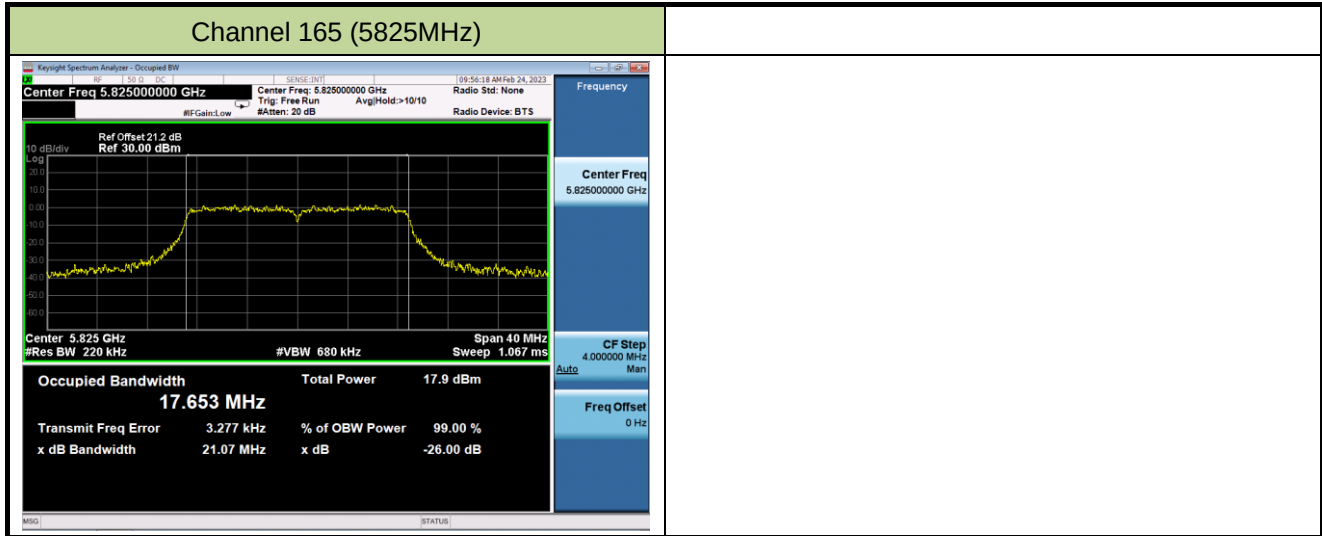






802.11ac-VHT40 26dB & 99% Bandwidth

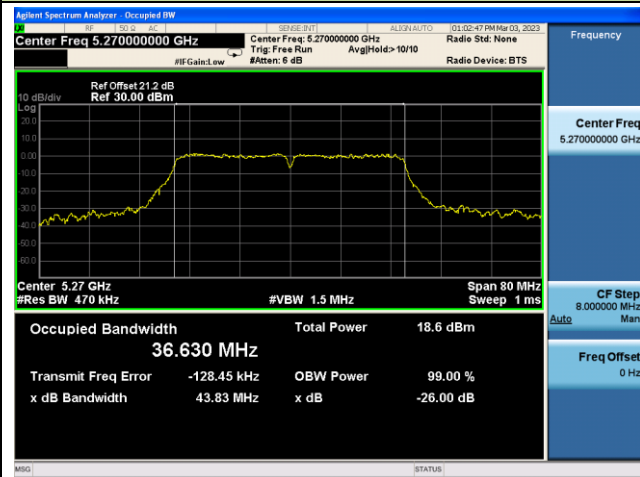
Channel 38 (5190MHz)



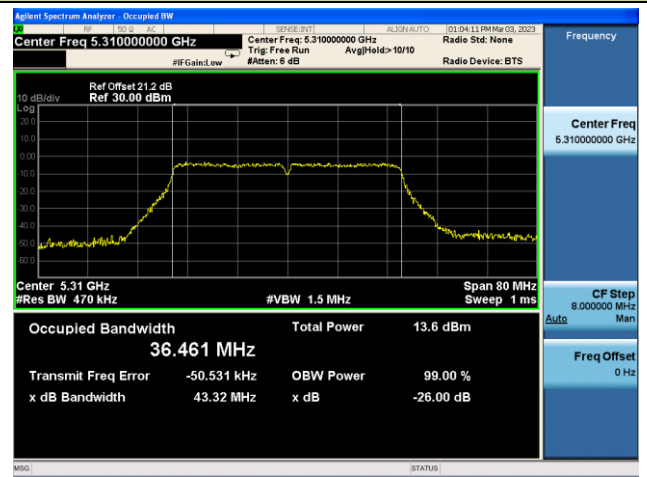
Channel 46 (5230MHz)



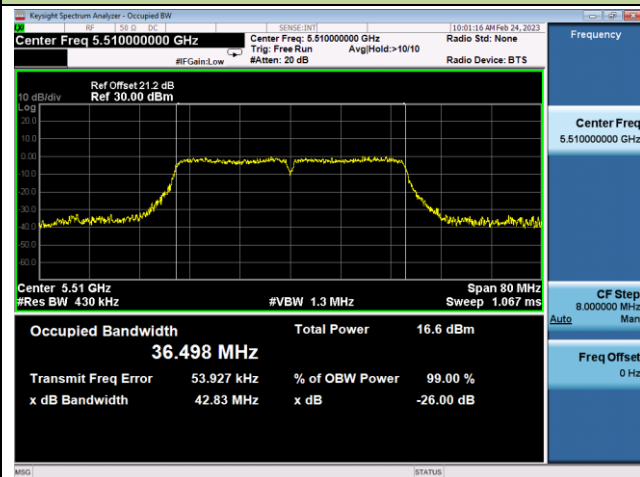
Channel 54 (5270MHz)



Channel 62 (5310MHz)

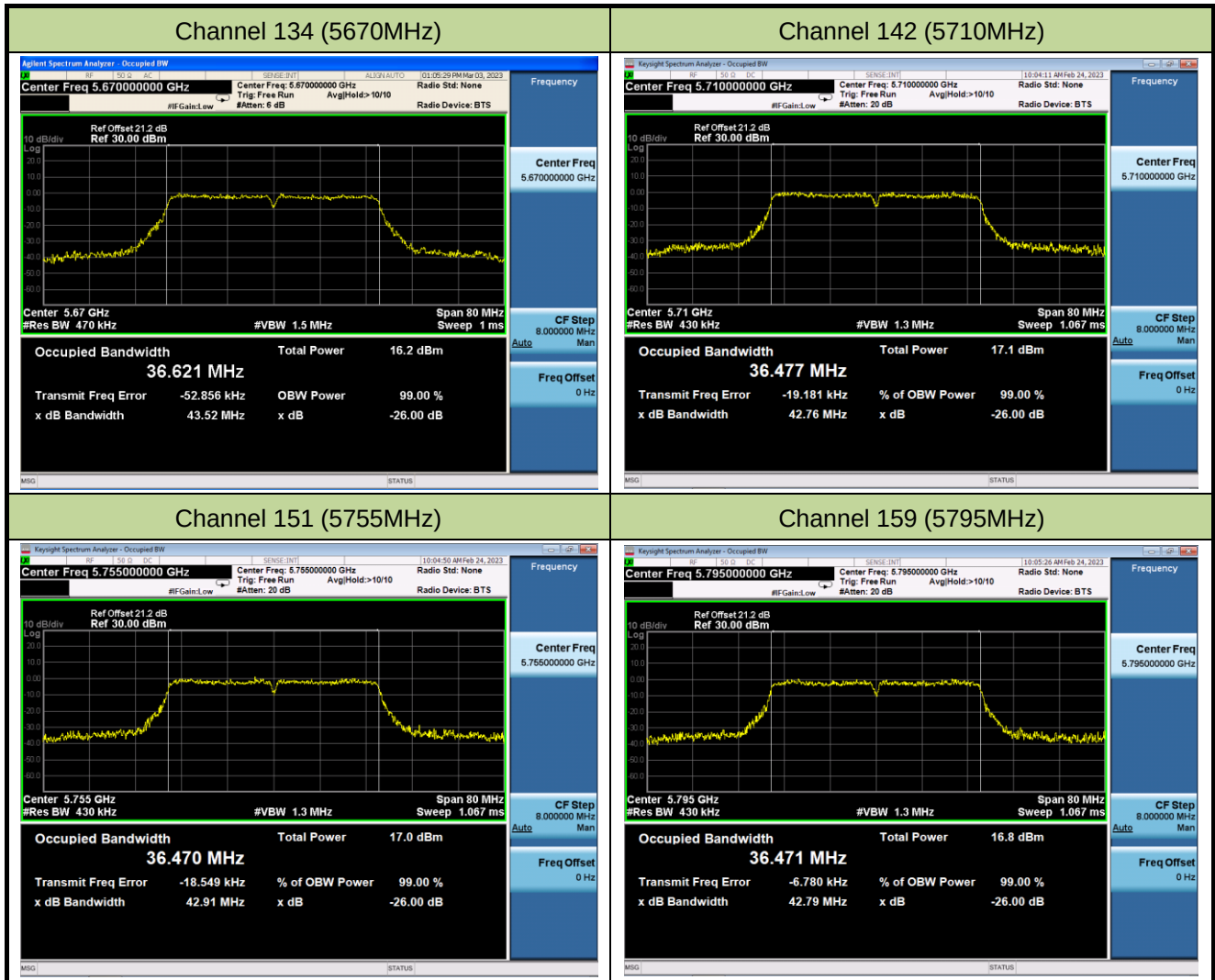


Channel 102 (5510MHz)



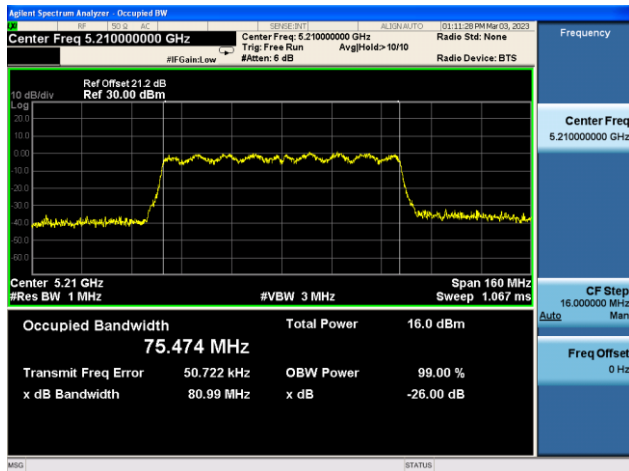
Channel 110 (5550MHz)



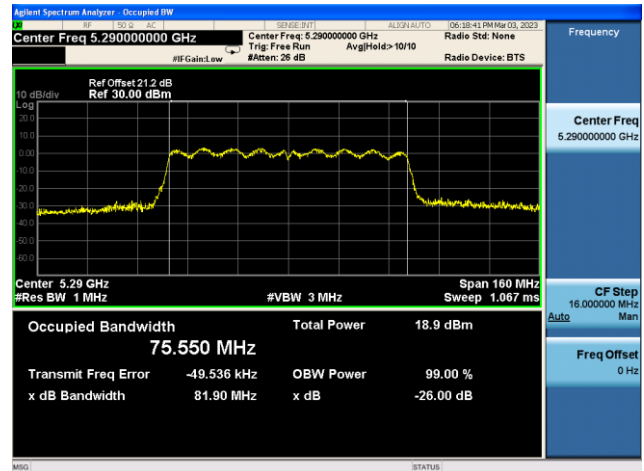


802.11ac-VHT80 26dB & 99% Bandwidth

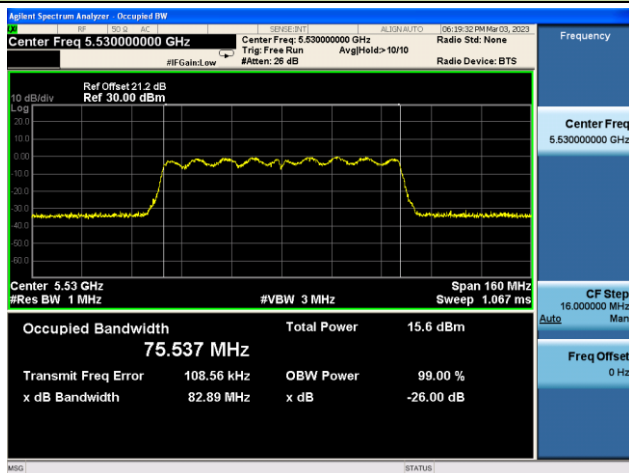
Channel 42 (5210MHz)



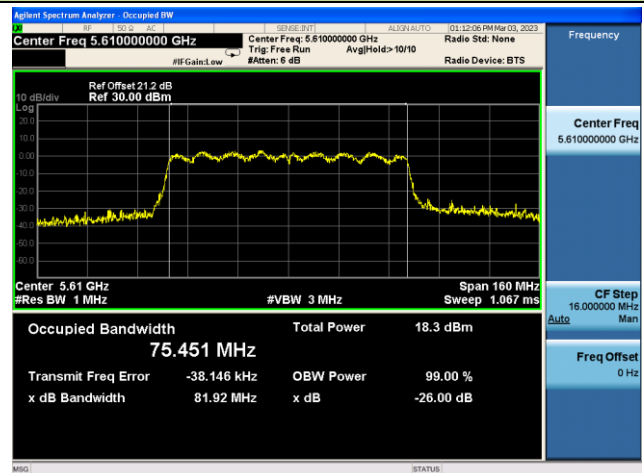
Channel 58 (5290MHz)



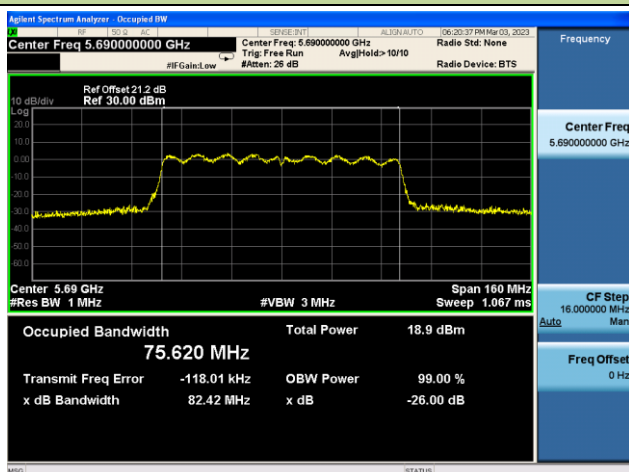
Channel 106 (5530MHz)



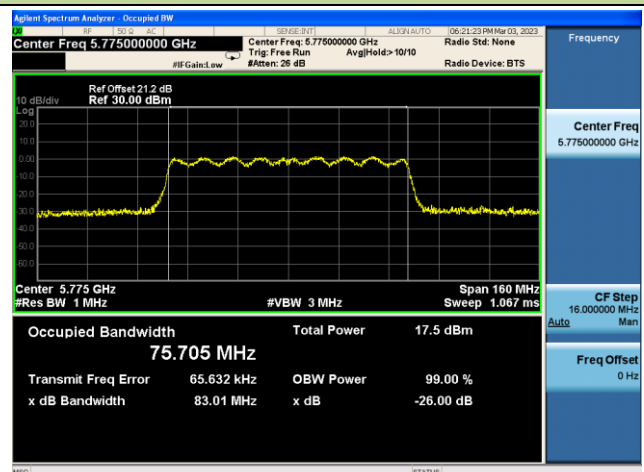
Channel 122 (5610MHz)



Channel 138 (5690MHz)



Channel 155 (5775MHz)



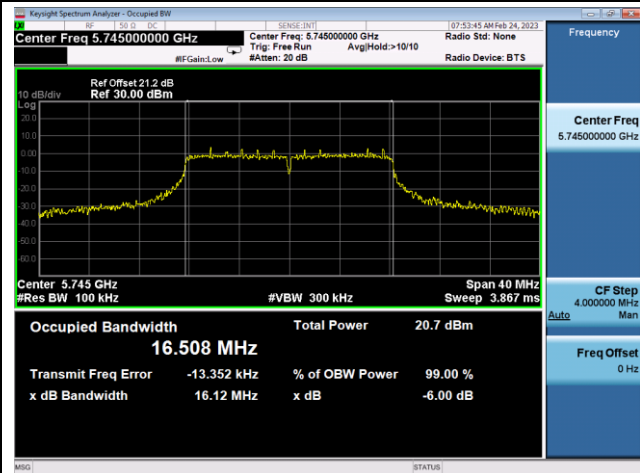
A.3 6dB Bandwidth Test Result

Test Site	NS-TR2	Test Engineer	Summer Tang
Test Date	2023-02-24		

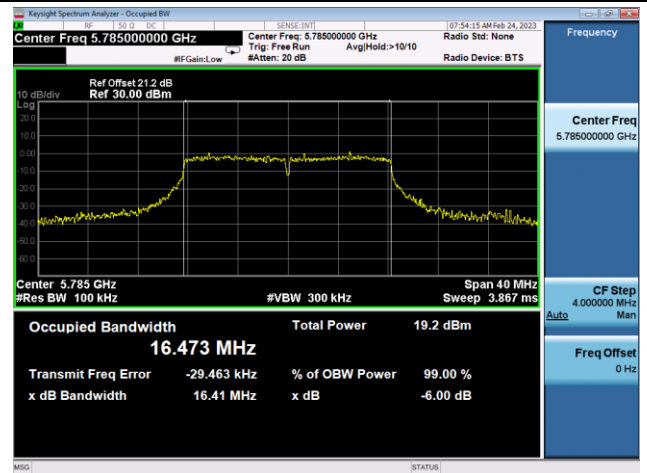
Test Mode	Data Rate/ MCS	Channel No.	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)	Result
802.11a	6Mbps	149	5745	16.12	≥ 0.5	Pass
802.11a	6Mbps	157	5785	16.41	≥ 0.5	Pass
802.11a	6Mbps	165	5825	16.39	≥ 0.5	Pass
802.11n-HT20	MCS0	149	5745	16.86	≥ 0.5	Pass
802.11n-HT20	MCS0	157	5785	17.53	≥ 0.5	Pass
802.11n-HT20	MCS0	165	5825	17.13	≥ 0.5	Pass
802.11n-HT40	MCS0	151	5755	35.63	≥ 0.5	Pass
802.11n-HT40	MCS0	159	5795	35.78	≥ 0.5	Pass
802.11ac-VHT20	MCS0	149	5745	16.94	≥ 0.5	Pass
802.11ac-VHT20	MCS0	157	5785	16.82	≥ 0.5	Pass
802.11ac-VHT20	MCS0	165	5825	17.08	≥ 0.5	Pass
802.11ac-VHT40	MCS0	151	5755	36.07	≥ 0.5	Pass
802.11ac-VHT40	MCS0	159	5795	35.80	≥ 0.5	Pass
802.11ac-VHT80	MCS0	155	5775	74.72	≥ 0.5	Pass

802.11a 6dB Bandwidth

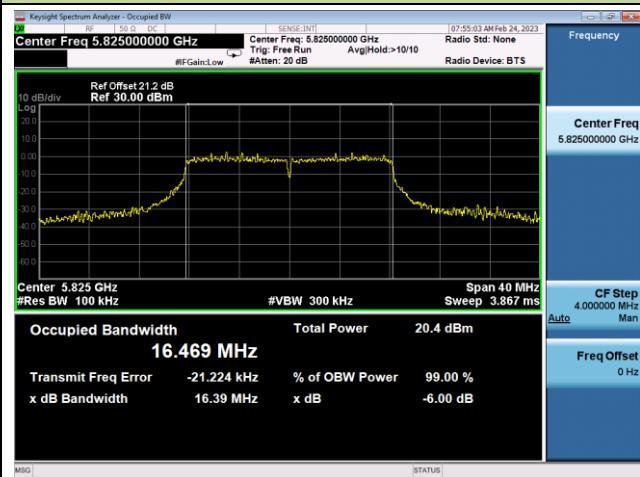
Channel 149 (5745MHz)



Channel 157 (5785MHz)

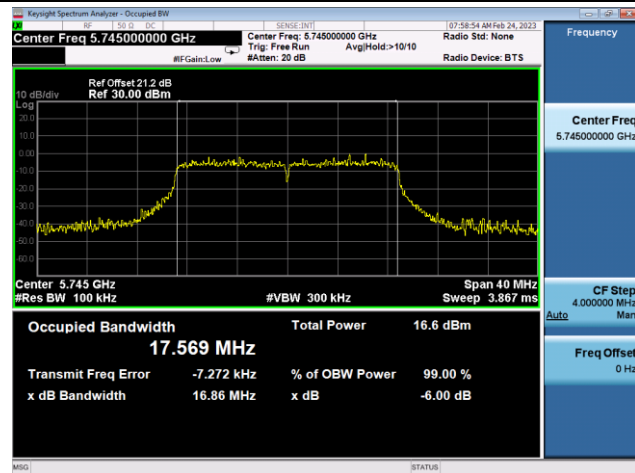


Channel 165 (5825MHz)

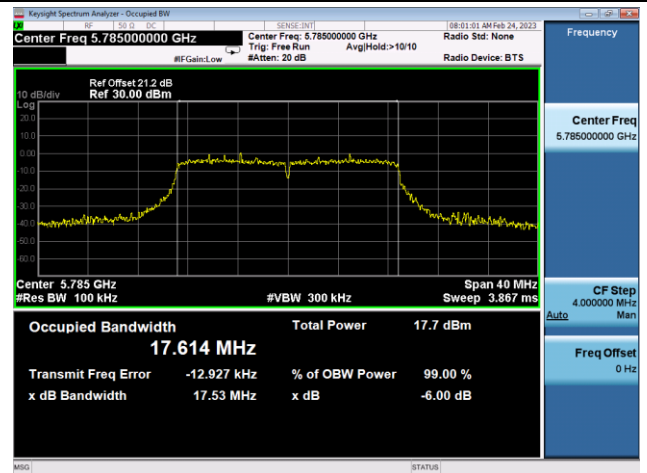


802.11n-HT20 6dB Bandwidth

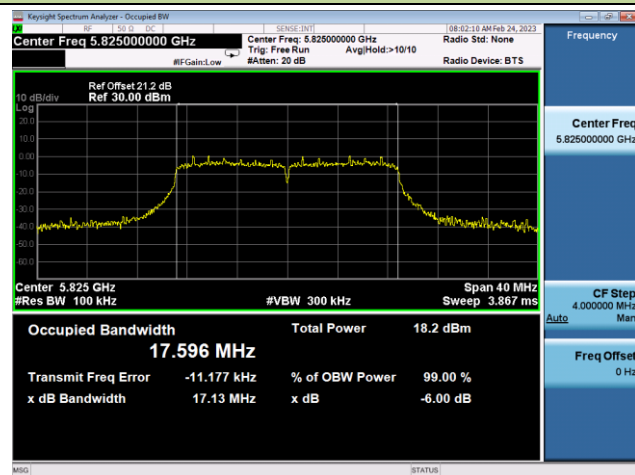
Channel 149 (5745MHz)



Channel 157 (5785MHz)

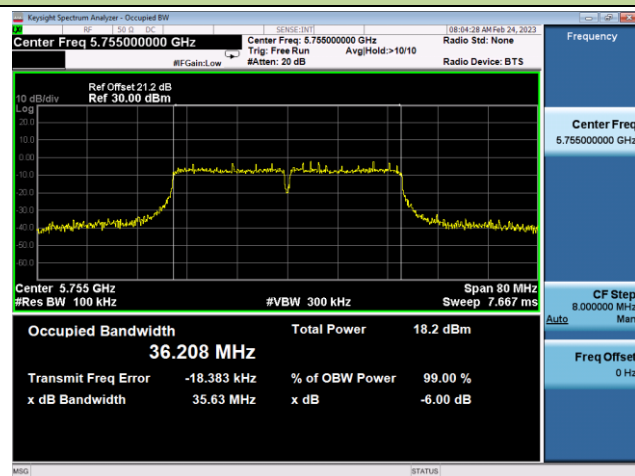


Channel 165 (5825MHz)

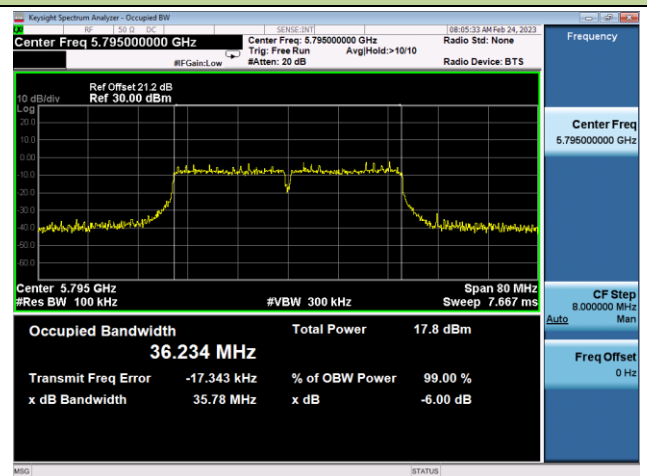


802.11n-HT40 6dB Bandwidth

Channel 151 (5755MHz)

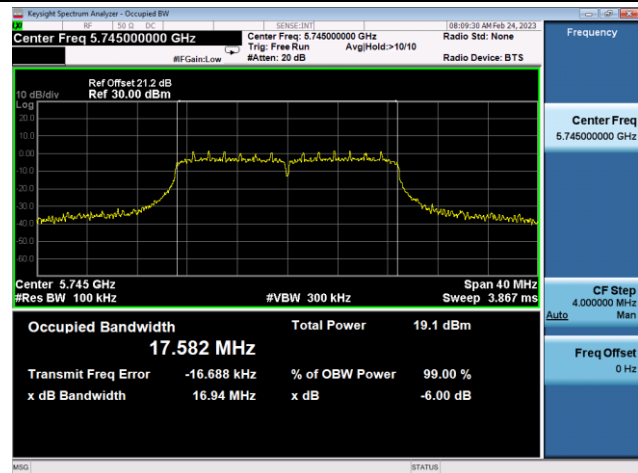


Channel 159 (5795MHz)

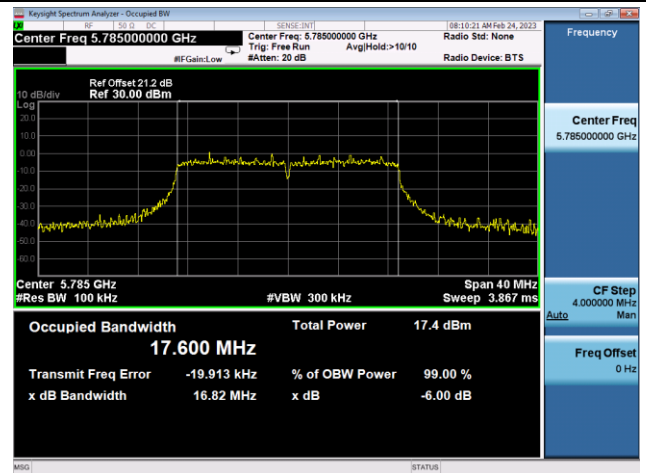


802.11ac-VHT20 6dB Bandwidth

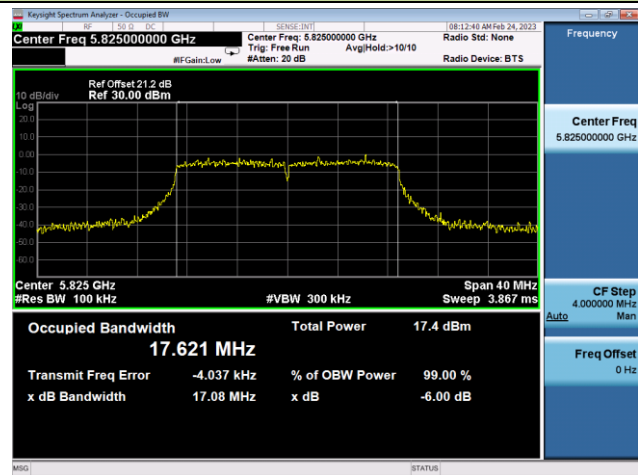
Channel 149 (5745MHz)



Channel 157 (5785MHz)

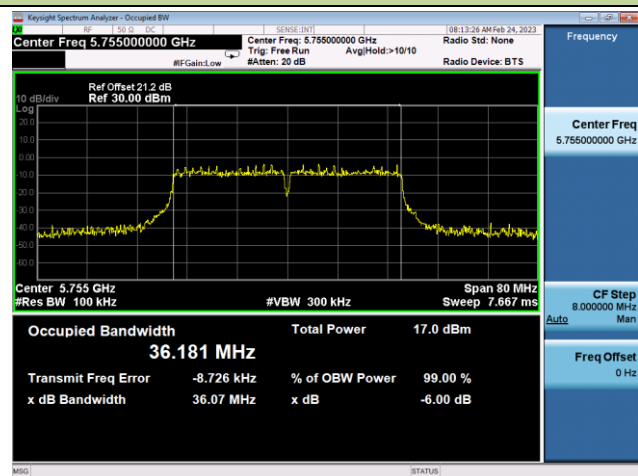


Channel 165 (5825MHz)

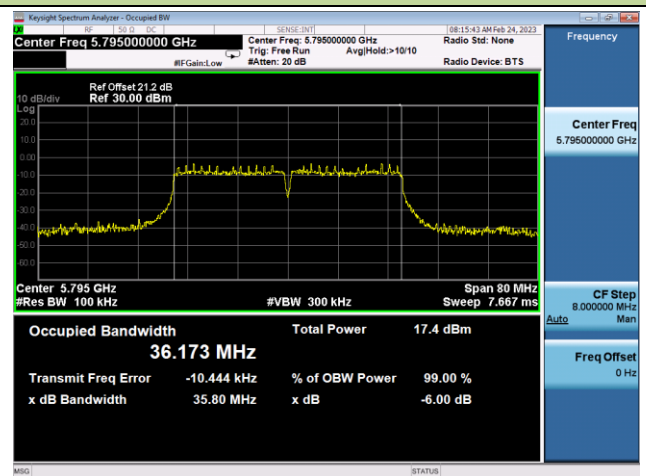


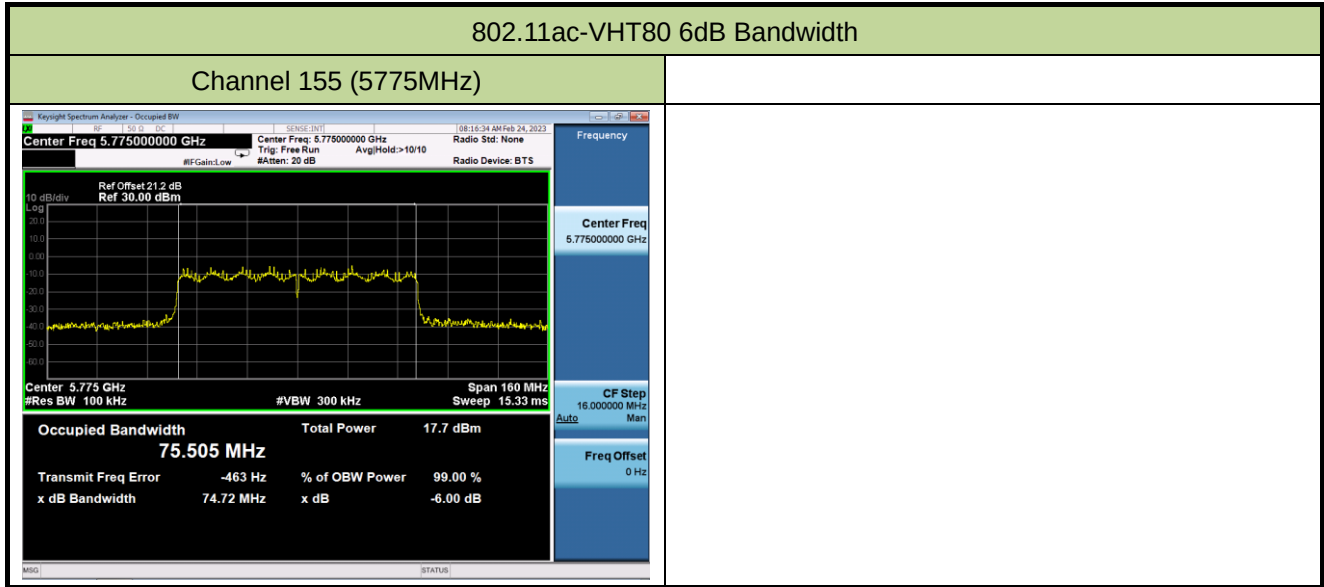
802.11ac-VHT40 6dB Bandwidth

Channel 151 (5755MHz)



Channel 159 (5795MHz)





A.4 Output Power Test Result

Test Site	NS-TR2	Test Engineer	Summer Tang
Test Date	2023-02-16~2023-02-18	Test Mode	SISO Mode

Test Mode	Data Rate/ MCS	Ch. No.	Freq. (MHz)	Average Power (dBm)		Average Power Limit (dBm)
				Ant A	Ant B	
11a	6Mbps	36	5180	13.87	13.83	≤ 23.98
11a	6Mbps	44	5220	13.92	13.85	≤ 23.98
11a	6Mbps	48	5240	13.79	13.21	≤ 23.98
11a	6Mbps	52	5260	13.57	13.89	≤ 23.98
11a	6Mbps	60	5300	12.95	13.91	≤ 23.98
11a	6Mbps	64	5320	11.24	12.82	≤ 23.98
11a	6Mbps	100	5500	13.51	11.65	≤ 23.98
11a	6Mbps	116	5580	13.78	11.21	≤ 23.98
11a	6Mbps	140	5700	13.38	13.61	≤ 23.98
11a	6Mbps	144	5720	13.69	13.80	≤ 23.27
11a	6Mbps	149	5745	13.95	13.56	≤ 30.00
11a	6Mbps	157	5785	13.65	13.92	≤ 30.00
11a	6Mbps	165	5825	13.90	13.88	≤ 30.00

Note: Max Conducted Output Power Limit Calculation as below:

For 11a Channel 144 (5720MHz), $11+10*\log(5\text{MHz} + \text{BW}_{26\text{dB}}/2) = 23.27\text{dBm} < 23.98\text{dBm}$

Test Site	NS-TR2	Test Engineer	Summer Tang
Test Date	2023-02-16~2023-02-18	Test Mode	MIMO Mode

Test Mode	Data Rate/ MCS	Ch. No.	Freq. (MHz)	Average Power (dBm)		Total AV Power(dBm)	Average Power Limit (dBm)
				Ant A	Ant B		
11n-HT20	MCS0	36	5180	11.81	12.54	15.20	≤ 23.98
11n-HT20	MCS0	44	5220	12.37	12.55	15.47	≤ 23.98
11n-HT20	MCS0	48	5240	12.32	12.87	15.61	≤ 23.98
11n-HT20	MCS0	52	5260	12.38	12.89	15.65	≤ 23.98
11n-HT20	MCS0	60	5300	10.05	11.34	13.75	≤ 23.98
11n-HT20	MCS0	64	5320	8.69	10.26	12.56	≤ 23.98
11n-HT20	MCS0	100	5500	9.97	11.65	13.90	≤ 23.98
11n-HT20	MCS0	116	5580	11.26	11.48	14.38	≤ 23.98
11n-HT20	MCS0	140	5700	11.73	12.57	15.18	≤ 23.98
11n-HT20	MCS0	144	5720	11.26	12.75	15.08	≤ 22.22
11n-HT20	MCS0	149	5745	11.36	12.35	14.89	≤ 30.00
11n-HT20	MCS0	157	5785	11.58	12.89	15.29	≤ 30.00
11n-HT20	MCS0	165	5825	11.67	12.95	15.37	≤ 30.00
11n-HT40	MCS0	38	5190	8.50	9.24	11.90	≤ 23.98
11n-HT40	MCS0	46	5230	12.53	12.65	15.60	≤ 23.98
11n-HT40	MCS0	54	5270	12.07	12.58	15.34	≤ 23.98
11n-HT40	MCS0	62	5310	7.46	8.65	11.11	≤ 23.98
11n-HT40	MCS0	102	5510	5.95	7.85	10.01	≤ 23.98
11n-HT40	MCS0	110	5550	10.68	11.50	14.12	≤ 23.98
11n-HT40	MCS0	134	5670	11.89	12.58	15.26	≤ 23.98
11n-HT40	MCS0	142	5710	11.47	12.63	15.10	≤ 23.98
11n-HT40	MCS0	151	5755	11.87	12.84	15.39	≤ 30.00
11n-HT40	MCS0	159	5795	12.09	12.87	15.51	≤ 30.00
11ac-VHT20	MCS0	36	5180	12.36	12.90	15.65	≤ 23.98
11ac-VHT20	MCS0	44	5220	12.40	12.86	15.65	≤ 23.98
11ac-VHT20	MCS0	48	5240	12.05	12.70	15.40	≤ 23.98
11ac-VHT20	MCS0	52	5260	11.97	12.91	15.48	≤ 23.98
11ac-VHT20	MCS0	60	5300	11.37	12.70	15.10	≤ 23.98
11ac-VHT20	MCS0	64	5320	11.17	12.61	14.96	≤ 23.98
11ac-VHT20	MCS0	100	5500	11.23	12.93	15.17	≤ 23.98
11ac-VHT20	MCS0	116	5580	12.10	12.50	15.31	≤ 23.98
11ac-VHT20	MCS0	140	5700	11.87	12.84	15.39	≤ 23.98

11ac-VHT20	MCS0	144	5720	11.27	12.78	15.10	≤ 22.22
11ac-VHT20	MCS0	149	5745	11.81	12.72	15.30	≤ 30.00
11ac-VHT20	MCS0	157	5785	12.05	12.96	15.54	≤ 30.00
11ac-VHT20	MCS0	165	5825	11.39	12.89	15.21	≤ 30.00
11ac-VHT40	MCS0	38	5190	8.47	9.14	11.83	≤ 23.98
11ac-VHT40	MCS0	46	5230	11.43	11.74	14.60	≤ 23.98
11ac-VHT40	MCS0	54	5270	11.17	11.67	14.44	≤ 23.98
11ac-VHT40	MCS0	62	5310	7.64	8.65	11.18	≤ 23.98
11ac-VHT40	MCS0	102	5510	6.49	8.45	10.59	≤ 23.98
11ac-VHT40	MCS0	110	5550	10.92	11.52	14.24	≤ 23.98
11ac-VHT40	MCS0	134	5670	10.54	11.15	13.87	≤ 23.98
11ac-VHT40	MCS0	142	5710	10.88	11.81	14.38	≤ 23.98
11ac-VHT40	MCS0	151	5755	10.63	11.58	14.14	≤ 30.00
11ac-VHT40	MCS0	159	5795	10.68	11.88	14.33	≤ 30.00
11ac-VHT80	MCS0	42	5210	7.79	8.50	11.17	≤ 23.98
11ac-VHT80	MCS0	58	5290	4.50	7.55	9.30	≤ 23.98
11ac-VHT80	MCS0	106	5530	6.72	8.28	10.58	≤ 23.98
11ac-VHT80	MCS0	122	5610	11.54	11.60	14.58	≤ 23.98
11ac-VHT80	MCS0	138	5690	11.08	11.78	14.45	≤ 23.98
11ac-VHT80	MCS0	155	5775	10.75	11.79	14.31	≤ 30.00

Note: Max Conducted Output Power Limit Calculation as below:

For Channel 144 (5720MHz), $11+10*\log(5\text{MHz} + BW_{26\text{dB}}/2)$.

A.5 Power Spectral Density Test Result

Test Site	NS-TR2	Test Engineer	Summer Tang
Test Date	2023-03-02~2023-03-03	Test Mode	SISO Mode

Test Mode	Data Rate/ MCS	Ch. No.	Freq. (MHz)	PSD (dBm/MHz)		Duty Cycle (%)	Total PSD (dBm/MHz)		PSD Limit (dBm/MHz)
				Ant A	Ant B		Ant A	Ant B	
For NII-1/-2a/-2c Bands:									
11a	6Mbps	36	5180	3.095	3.078	94.72	3.331	3.314	≤ 11.00
11a	6Mbps	44	5220	3.047	2.700	94.72	3.283	2.936	≤ 11.00
11a	6Mbps	48	5240	2.832	2.404	94.72	3.068	2.640	≤ 11.00
11a	6Mbps	52	5260	2.170	2.774	94.72	2.406	3.010	≤ 11.00
11a	6Mbps	60	5300	1.913	2.482	94.72	2.149	2.718	≤ 11.00
11a	6Mbps	64	5320	-0.339	1.679	94.72	-0.103	1.915	≤ 11.00
11a	6Mbps	100	5500	2.861	0.899	94.72	3.097	1.135	≤ 11.00
11a	6Mbps	116	5580	3.034	0.499	94.72	3.270	0.735	≤ 11.00
11a	6Mbps	140	5700	2.619	2.362	94.72	2.855	2.598	≤ 11.00
11a	6Mbps	144	5720	2.518	2.644	94.72	2.754	2.880	≤ 11.00

Note: When EUT duty cycle < 98%, the total PSD (dBm/MHz) = AVGPSPD (dBm/MHz) +10*log (1/Duty cycle).
When EUT duty cycle ≥ 98%, the total PSD (dBm/MHz) = AVGPSPD (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)
				Ant A	Ant B		Ant A	Ant B	
For NII-3 Band:									
11a	6Mbps	149	5745	0.095	-0.708	94.72	0.331	-0.472	≤ 30.00
11a	6Mbps	157	5785	-0.448	-0.041	94.72	-0.212	0.195	≤ 30.00
11a	6Mbps	165	5825	-0.235	-0.068	94.72	0.001	0.168	≤ 30.00

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

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

Test Site	NS-TR2	Test Engineer	Summer Tang
Test Date	2023-03-02~2023-03-03	Test Mode	MIMO Mode

Test Mode	Data Rate/ MCS	Ch. No.	Freq. (MHz)	PSD (dBm/MHz)		Duty Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/ MHz)
				Ant A	Ant B			
For NII-1/-2a/-2c Bands:								
11n-HT20	MCS0	36	5180	1.021	1.741	96.24	4.573	≤ 11.00
11n-HT20	MCS0	44	5220	1.227	1.318	96.24	4.449	≤ 11.00
11n-HT20	MCS0	48	5240	0.750	1.749	96.24	4.455	≤ 11.00
11n-HT20	MCS0	52	5260	1.310	1.598	96.24	4.633	≤ 11.00
11n-HT20	MCS0	60	5300	-1.283	-0.255	96.24	2.438	≤ 11.00
11n-HT20	MCS0	64	5320	-2.688	-1.186	96.24	1.304	≤ 11.00
11n-HT20	MCS0	100	5500	-1.025	1.353	96.24	3.502	≤ 11.00
11n-HT20	MCS0	116	5580	0.336	0.540	96.24	3.616	≤ 11.00
11n-HT20	MCS0	140	5700	0.335	1.192	96.24	3.961	≤ 11.00
11n-HT20	MCS0	144	5720	-0.101	1.071	96.24	3.701	≤ 11.00
11n-HT40	MCS0	38	5190	-5.496	-5.199	86.54	-1.707	≤ 11.00
11n-HT40	MCS0	46	5230	-2.190	-1.786	86.54	1.655	≤ 11.00
11n-HT40	MCS0	54	5270	-2.898	-2.059	86.54	1.180	≤ 11.00
11n-HT40	MCS0	62	5310	-7.015	-5.883	86.54	-2.774	≤ 11.00
11n-HT40	MCS0	102	5510	-8.210	-6.256	86.54	-3.486	≤ 11.00
11n-HT40	MCS0	110	5550	-3.363	-2.689	86.54	0.625	≤ 11.00
11n-HT40	MCS0	134	5670	-2.160	-1.644	86.54	1.744	≤ 11.00
11n-HT40	MCS0	142	5710	-2.813	-2.058	86.54	1.219	≤ 11.00
11ac-VHT20	MCS0	36	5180	1.236	2.140	87.66	5.294	≤ 11.00
11ac-VHT20	MCS0	44	5220	1.630	1.974	87.66	5.388	≤ 11.00
11ac-VHT20	MCS0	48	5240	0.859	1.585	87.66	4.819	≤ 11.00
11ac-VHT20	MCS0	52	5260	0.975	1.413	87.66	4.782	≤ 11.00
11ac-VHT20	MCS0	60	5300	0.270	1.643	87.66	4.593	≤ 11.00
11ac-VHT20	MCS0	64	5320	-0.018	1.211	87.66	4.222	≤ 11.00
11ac-VHT20	MCS0	100	5500	0.104	2.050	87.66	4.767	≤ 11.00
11ac-VHT20	MCS0	116	5580	1.521	1.469	87.66	5.077	≤ 11.00
11ac-VHT20	MCS0	140	5700	0.597	1.556	87.66	4.685	≤ 11.00
11ac-VHT20	MCS0	144	5720	0.056	1.275	87.66	4.290	≤ 11.00

Test Mode	Data Rate/ MCS	Ch. No.	Freq. (MHz)	PSD (dBm/MHz)		Duty Cycle Cycle (%)	Total PSD (dBm/MHz)	PSD Limit (dBm/ MHz)
				Ant A	Ant B			
For NII-1/-2a/-2c Bands:								
11ac-VHT40	MCS0	38	5190	-5.513	-5.102	88.62	-1.768	≤ 11.00
11ac-VHT40	MCS0	46	5230	-2.862	-2.251	88.62	0.989	≤ 11.00
11ac-VHT40	MCS0	54	5270	-3.381	-2.787	88.62	0.461	≤ 11.00
11ac-VHT40	MCS0	62	5310	-7.125	-6.636	88.62	-3.339	≤ 11.00
11ac-VHT40	MCS0	102	5510	-7.347	-5.601	88.62	-2.852	≤ 11.00
11ac-VHT40	MCS0	110	5550	-3.549	-2.498	88.62	0.543	≤ 11.00
11ac-VHT40	MCS0	134	5670	-3.397	-3.179	88.62	0.248	≤ 11.00
11ac-VHT40	MCS0	142	5710	-3.638	-2.763	88.62	0.356	≤ 11.00
11ac-VHT80	MCS0	42	5210	-8.273	-7.897	79.65	-4.082	≤ 11.00
11ac-VHT80	MCS0	58	5290	-12.886	-10.380	79.65	-7.456	≤ 11.00
11ac-VHT80	MCS0	106	5530	-9.265	-7.696	79.65	-4.412	≤ 11.00
11ac-VHT80	MCS0	122	5610	-4.529	-4.678	79.65	-0.604	≤ 11.00
11ac-VHT80	MCS0	138	5690	-5.092	-4.802	79.65	-0.946	≤ 11.00

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

When EUT duty cycle ≥ 98%, the total PSD (dBm/MHz) = $10 \cdot \log(10^{(\text{Ant A PSD}/10)} + 10^{(\text{Ant B PSD}/10)})$ (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)
				Ant A	Ant B			
For NII-3 Band:								
11n-HT20	MCS0	149	5745	-2.765	-2.177	96.24	0.716	≤ 30.00
11n-HT20	MCS0	157	5785	-3.090	-2.079	96.24	0.622	≤ 30.00
11n-HT20	MCS0	165	5825	-2.513	-0.935	96.24	1.524	≤ 30.00
11n-HT40	MCS0	151	5755	-6.169	-4.987	86.54	-1.900	≤ 30.00
11n-HT40	MCS0	159	5795	-6.014	-4.993	86.54	-1.835	≤ 30.00
11ac-VHT20	MCS0	149	5745	-2.229	-1.319	87.66	1.832	≤ 30.00
11ac-VHT20	MCS0	157	5785	-2.191	-1.474	87.66	1.765	≤ 30.00
11ac-VHT20	MCS0	165	5825	-3.020	-1.503	87.66	1.387	≤ 30.00
11ac-VHT40	MCS0	151	5755	-6.815	-5.488	88.62	-2.566	≤ 30.00
11ac-VHT40	MCS0	159	5795	-6.513	-5.678	88.62	-2.540	≤ 30.00
11ac-VHT80	MCS0	155	5775	-9.397	-8.279	79.65	-4.804	≤ 30.00

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

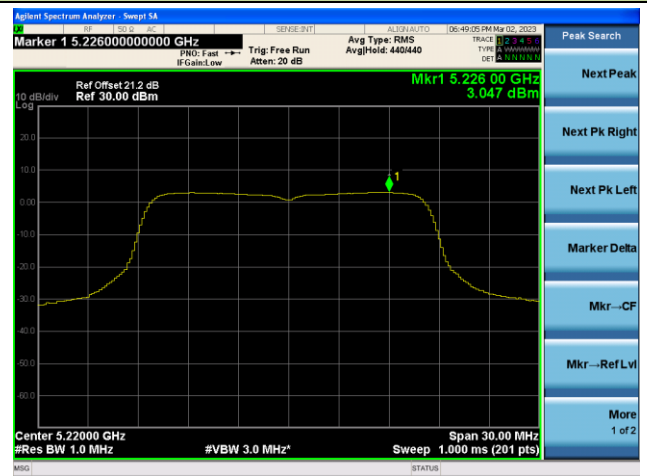
When EUT duty cycle ≥ 98%, the total PSD (dBm/510kHz) = $10 \cdot \log(10^{(\text{Ant A AVGPSD}/10)} + 10^{(\text{Ant B AVGPSD}/10)})$ (dBm/510kHz).

802.11a Power Spectral Density – SISO Mode Ant A

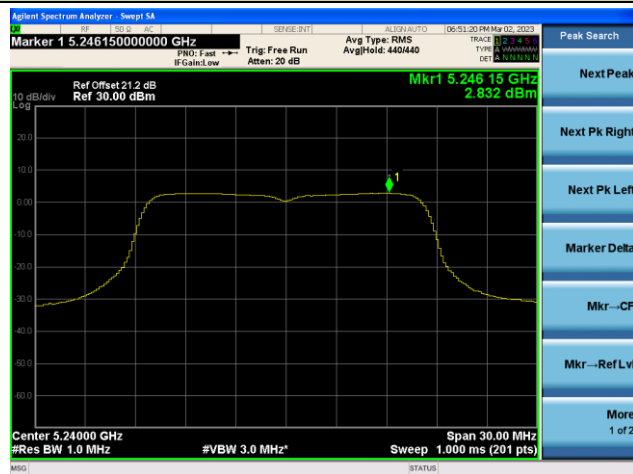
Channel 36 (5180MHz)



Channel 44 (5220MHz)



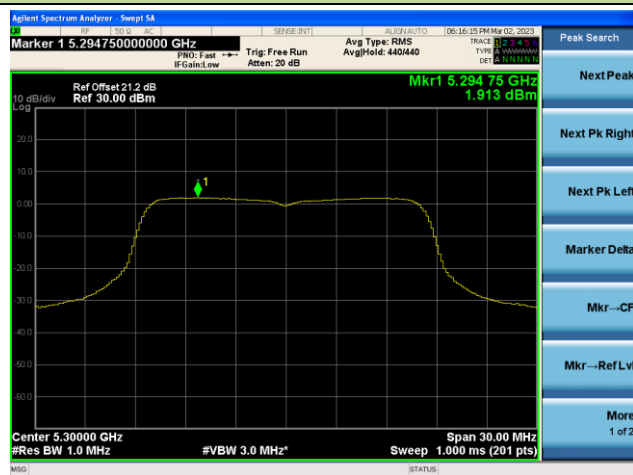
Channel 48 (5240MHz)



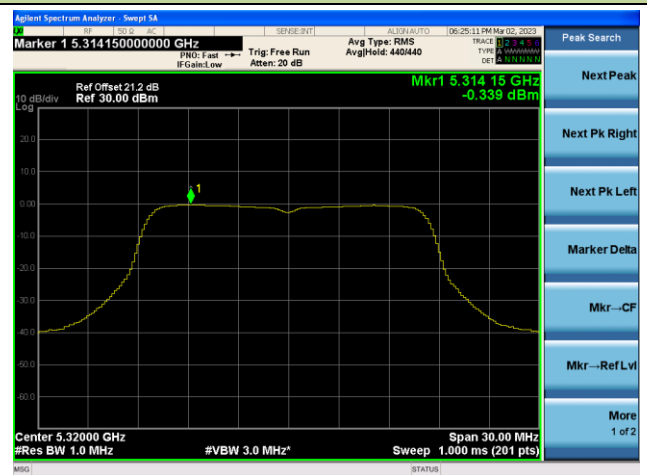
Channel 52 (5260MHz)



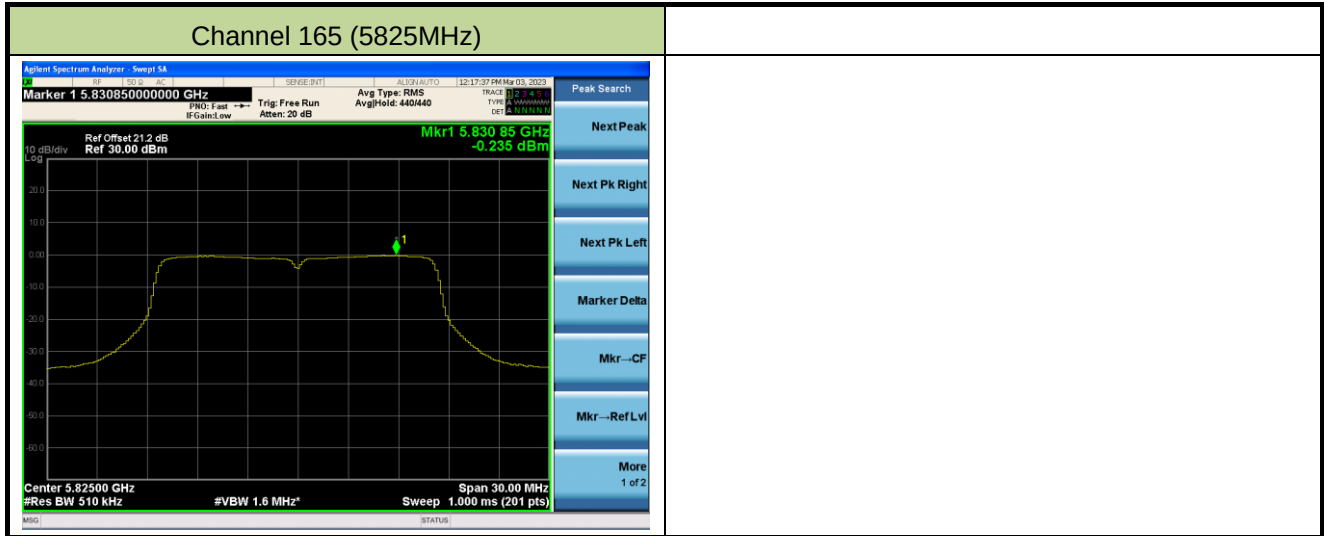
Channel 60 (5300MHz)



Channel 64 (5320MHz)

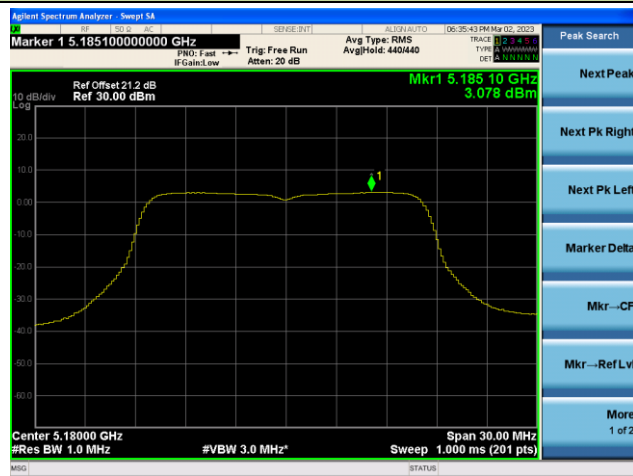




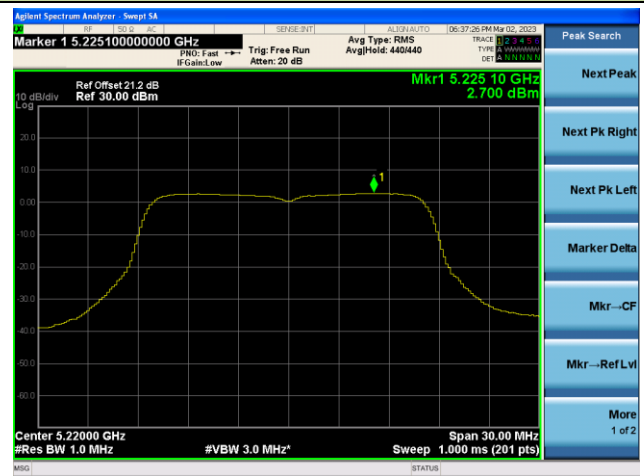


802.11a Power Spectral Density – SISO Mode Ant B

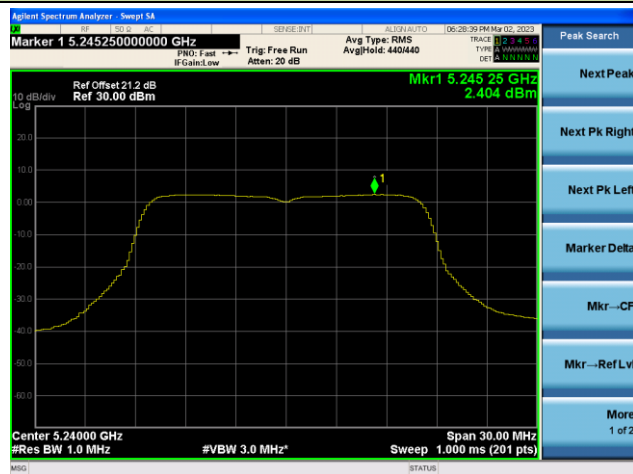
Channel 36 (5180MHz)



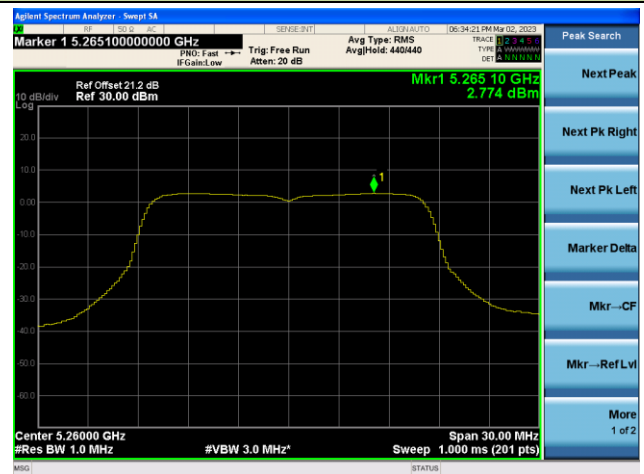
Channel 44 (5220MHz)



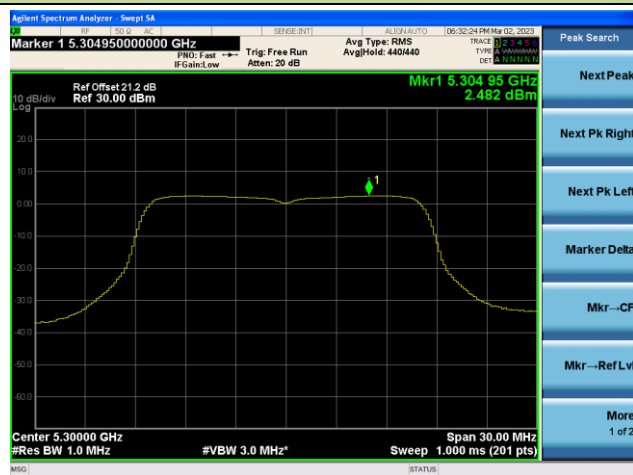
Channel 48 (5240MHz)



Channel 52 (5260MHz)



Channel 60 (5300MHz)



Channel 64 (5320MHz)

