

Maximum Power Spectral Density Measurement

Test Mode	Frequency (MHz)	ANT-0			ANT-1			Limit (dBm/MHz)
		Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	Measurement (dBm/MHz)	Duty Factor (dB)	Calculated (dBm/MHz)	
Mode 2	5180	0.978	0.052	1.030	0.142	0.052	0.194	≤ 11.00
	5200	1.014	0.052	1.066	0.153	0.052	0.205	≤ 11.00
	5240	0.804	0.052	0.856	0.123	0.052	0.175	≤ 11.00
	5260	0.872	0.052	0.924	0.306	0.052	0.358	≤ 11.00
	5280	1.001	0.052	1.053	0.123	0.052	0.175	≤ 11.00
	5320	1.095	0.052	1.147	0.803	0.052	0.855	≤ 11.00
	5500	1.989	0.052	2.041	1.755	0.052	1.807	≤ 11.00
	5560	2.481	0.052	2.533	2.358	0.052	2.410	≤ 11.00
	5700	2.445	0.052	2.497	2.487	0.052	2.539	≤ 11.00
	5720	2.626	0.052	2.678	2.507	0.052	2.559	≤ 11.00
Mode 5	5180	0.516	0.055	0.571	-0.476	0.055	-0.421	≤ 11.00
	5200	0.278	0.055	0.333	-0.603	0.055	-0.548	≤ 11.00
	5240	0.418	0.055	0.473	-0.371	0.055	-0.316	≤ 11.00
	5260	0.295	0.055	0.350	-0.295	0.055	-0.240	≤ 11.00
	5280	0.705	0.055	0.760	0.025	0.055	0.080	≤ 11.00
	5320	0.302	0.055	0.357	0.584	0.055	0.639	≤ 11.00
	5500	1.748	0.055	1.803	1.679	0.055	1.734	≤ 11.00
	5560	2.123	0.055	2.178	2.311	0.055	2.366	≤ 11.00
	5700	2.651	0.055	2.706	2.527	0.055	2.582	≤ 11.00
	5720	2.089	0.055	2.144	1.998	0.055	2.053	≤ 11.00
Mode 6	5190	-3.881	0.107	-3.774	-4.851	0.107	-4.744	≤ 11.00
	5230	-3.841	0.107	-3.734	-4.880	0.107	-4.773	≤ 11.00
	5270	-4.113	0.107	-4.006	-5.086	0.107	-4.979	≤ 11.00
	5310	-3.701	0.107	-3.594	-5.084	0.107	-4.977	≤ 11.00
	5510	-3.502	0.107	-3.395	-3.893	0.107	-3.786	≤ 11.00
	5550	-3.277	0.107	-3.170	-3.778	0.107	-3.671	≤ 11.00
	5670	-3.020	0.107	-2.913	-2.958	0.107	-2.851	≤ 11.00
	5710	-2.748	0.107	-2.641	-2.938	0.107	-2.831	≤ 11.00
Mode 7	5210	-7.109	0.261	-6.848	-7.566	0.261	-7.305	≤ 11.00
	5290	-7.571	0.261	-7.310	-8.236	0.261	-7.975	≤ 11.00
	5530	-6.005	0.261	-5.744	-6.259	0.261	-5.998	≤ 11.00
	5610	-5.757	0.261	-5.496	-6.102	0.261	-5.841	≤ 11.00
	5690	-6.063	0.261	-5.802	-6.250	0.261	-5.989	≤ 11.00

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

Test Mode	Frequency (MHz)	ANT-0+1	Limit
		(dBm/MHz)	(dBm/MHz)
Mode 2	5180	3.642	≤ 11.00
	5200	3.667	≤ 11.00
	5240	3.539	≤ 11.00
	5260	3.660	≤ 11.00
	5280	3.646	≤ 11.00
	5320	4.014	≤ 11.00
	5500	4.936	≤ 11.00
	5560	5.482	≤ 11.00
	5700	5.528	≤ 11.00
	5720	5.629	≤ 11.00
Mode 5	5180	3.114	≤ 11.00
	5200	2.925	≤ 11.00
	5240	3.107	≤ 11.00
	5260	3.076	≤ 11.00
	5280	3.444	≤ 11.00
	5320	3.511	≤ 11.00
	5500	4.779	≤ 11.00
	5560	5.284	≤ 11.00
	5700	5.655	≤ 11.00
	5720	5.109	≤ 11.00
Mode 6	5190	-1.222	≤ 11.00
	5230	-1.212	≤ 11.00
	5270	-1.455	≤ 11.00
	5310	-1.220	≤ 11.00
	5510	-0.576	≤ 11.00
	5550	-0.403	≤ 11.00
	5670	0.128	≤ 11.00
	5710	0.275	≤ 11.00
Mode 7	5210	-4.060	≤ 11.00
	5290	-4.619	≤ 11.00
	5530	-2.858	≤ 11.00
	5610	-2.654	≤ 11.00
	5690	-2.884	≤ 11.00

Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

Test Mode	Frequency (MHz)	ANT-0			ANT-1			Limit (dBm/500 kHz)
		Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	Measurement (dBm/100 kHz)	Duty Factor (dB)	Calculated (dBm/500 kHz)	
Mode 2	5720	-7.788	0.052	-0.746	-8.016	0.052	-0.974	≤ 30.00
	5745	-6.135	0.052	0.907	-6.811	0.052	0.231	≤ 30.00
	5785	-6.610	0.052	0.432	-7.571	0.052	-0.529	≤ 30.00
	5825	-6.740	0.052	0.302	-7.581	0.052	-0.539	≤ 30.00
Mode 5	5720	-7.835	0.055	-0.790	-8.204	0.055	-1.159	≤ 30.00
	5745	-7.105	0.055	-0.060	-7.986	0.055	-0.941	≤ 30.00
	5785	-7.167	0.055	-0.122	-7.986	0.055	-0.941	≤ 30.00
	5825	-7.410	0.055	-0.365	-7.574	0.055	-0.529	≤ 30.00
Mode 6	5710	-13.504	0.107	-6.407	-13.658	0.107	-6.561	≤ 30.00
	5755	-11.198	0.107	-4.101	-11.392	0.107	-4.295	≤ 30.00
	5795	-11.338	0.107	-4.241	-11.869	0.107	-4.772	≤ 30.00
Mode 7	5690	-17.066	0.261	-9.815	-17.198	0.261	-9.947	≤ 30.00
	5775	-13.922	0.261	-6.671	-14.297	0.261	-7.046	≤ 30.00

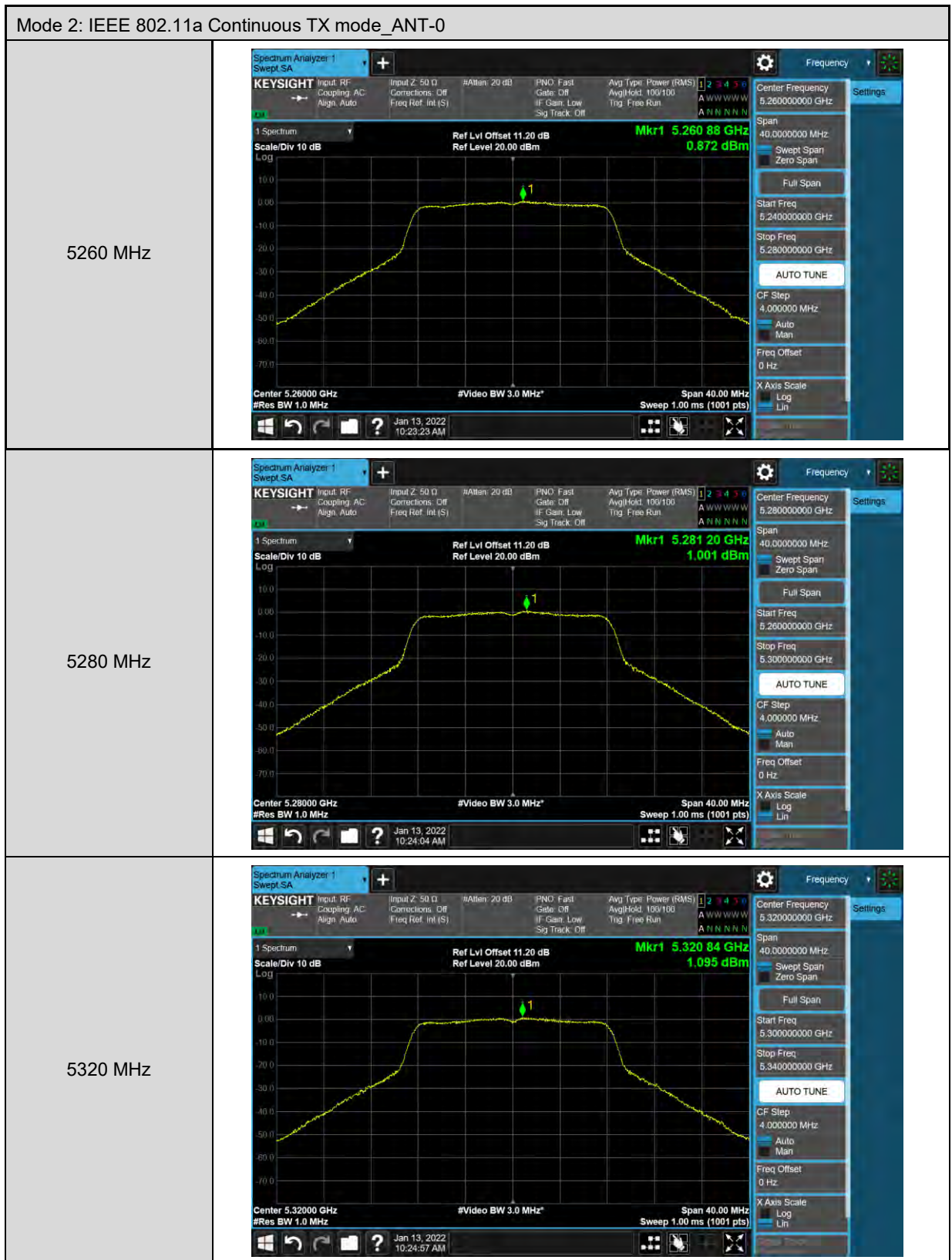
Test Mode	Frequency (MHz)	ANT-0+1	Limit (dBm/500 kHz)
		Calculated (dBm/500 kHz)	
Mode 2	5720	2.151	≤ 30.00
	5745	3.592	≤ 30.00
	5785	2.988	≤ 30.00
	5825	2.912	≤ 30.00
Mode 5	5720	2.040	≤ 30.00
	5745	2.532	≤ 30.00
	5785	2.498	≤ 30.00
	5825	2.564	≤ 30.00
Mode 6	5710	-3.473	≤ 30.00
	5755	-1.187	≤ 30.00
	5795	-1.488	≤ 30.00
Mode 7	5690	-6.870	≤ 30.00
	5775	-3.844	≤ 30.00

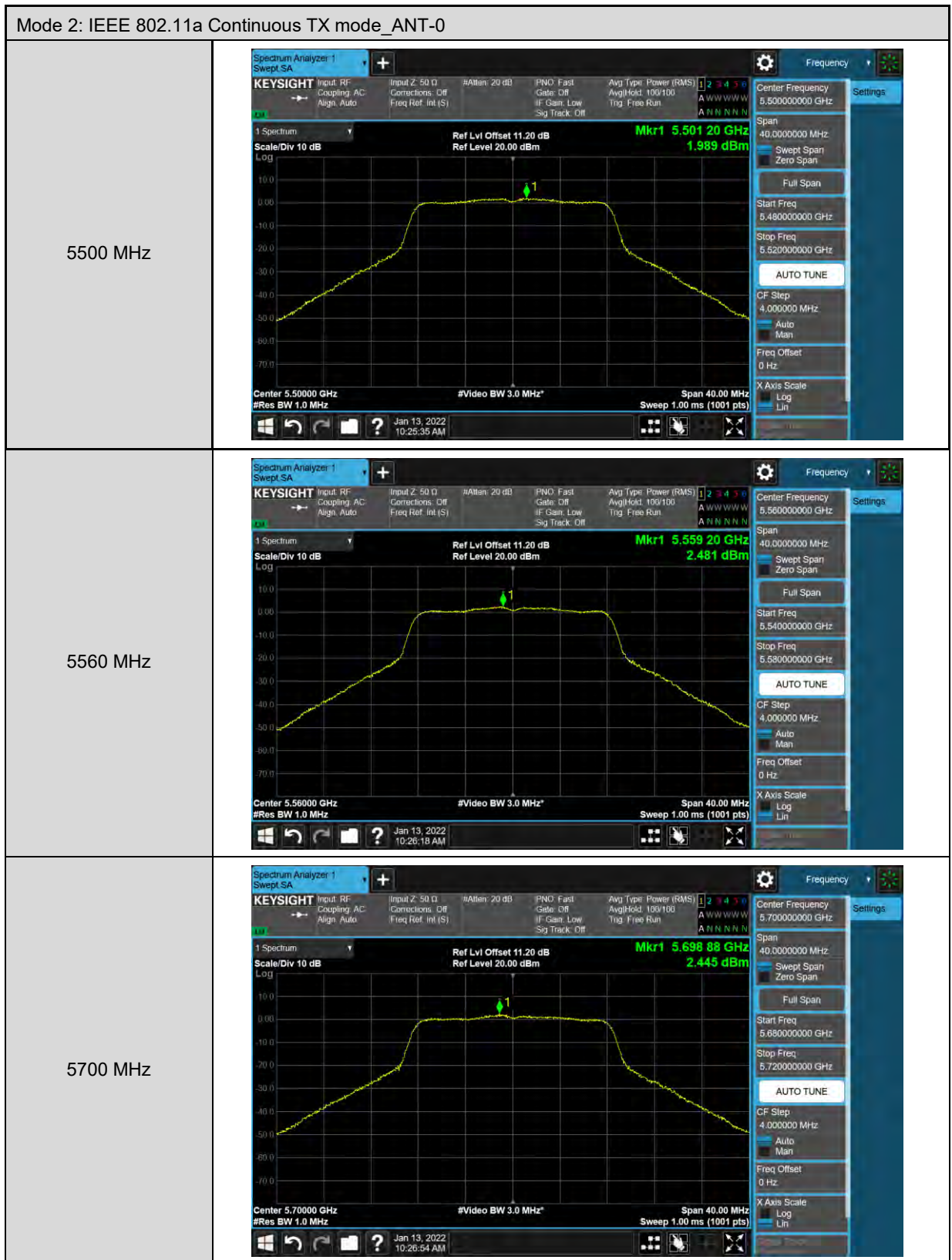
Note: Method SA-2, Power density = measured result + 10 log(1/duty cycle) + Conversion ratio = measured result + duty factor.

Conversion ratio = 10*Log(500 kHz/100 kHz)

■ Test Graphs

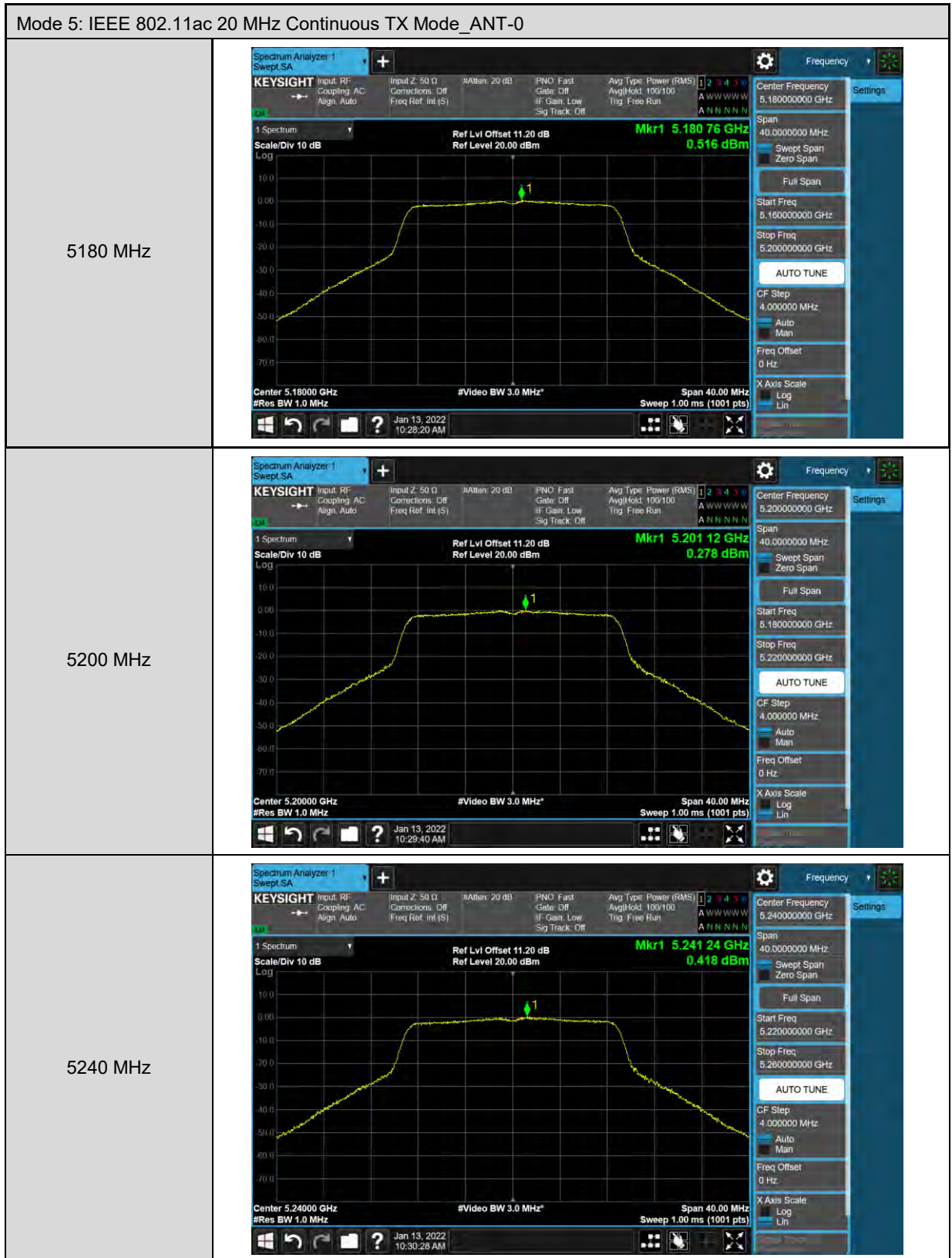












Mode 5: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-0

5260 MHz	
5280 MHz	
5320 MHz	

Mode 5: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-0

5500 MHz

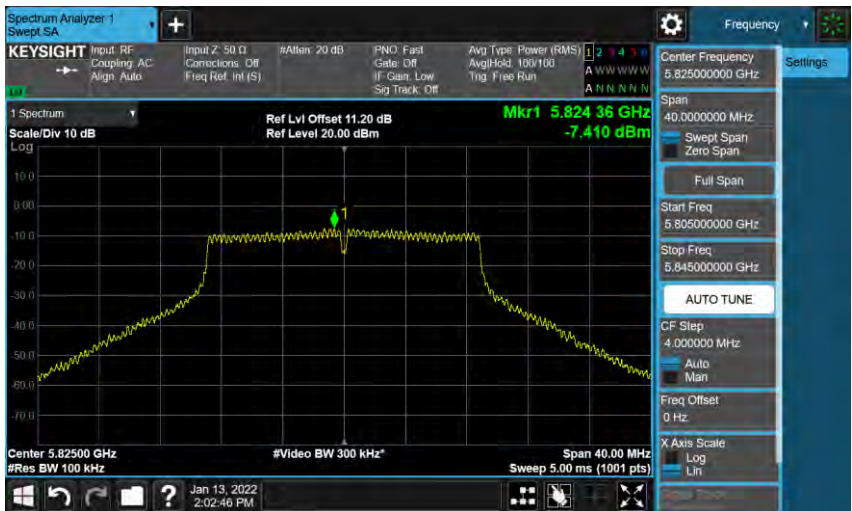


5560 MHz



5700 MHz



Mode 5: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-0	
5745 MHz	
5785 MHz	
5825 MHz	



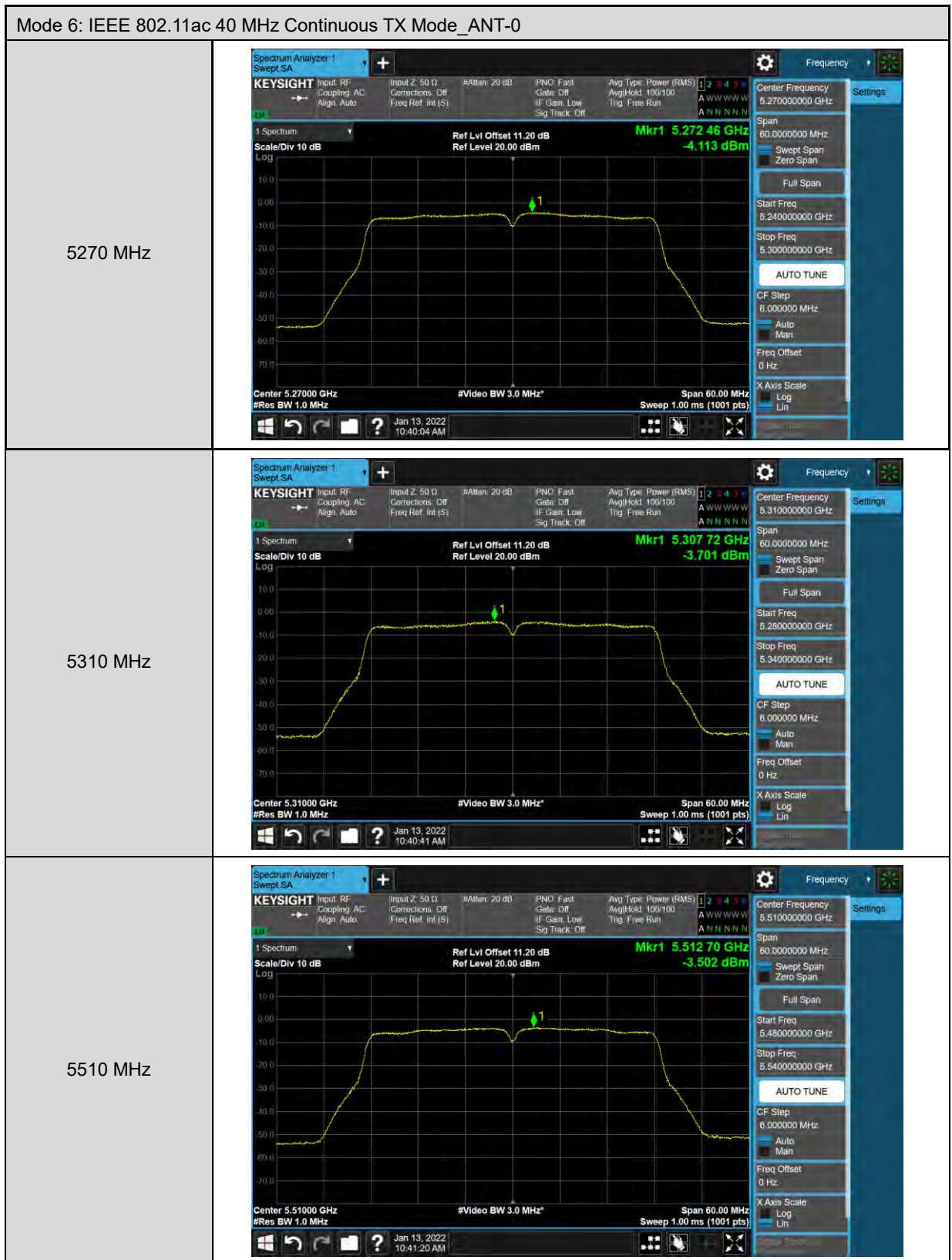
Mode 6: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-0

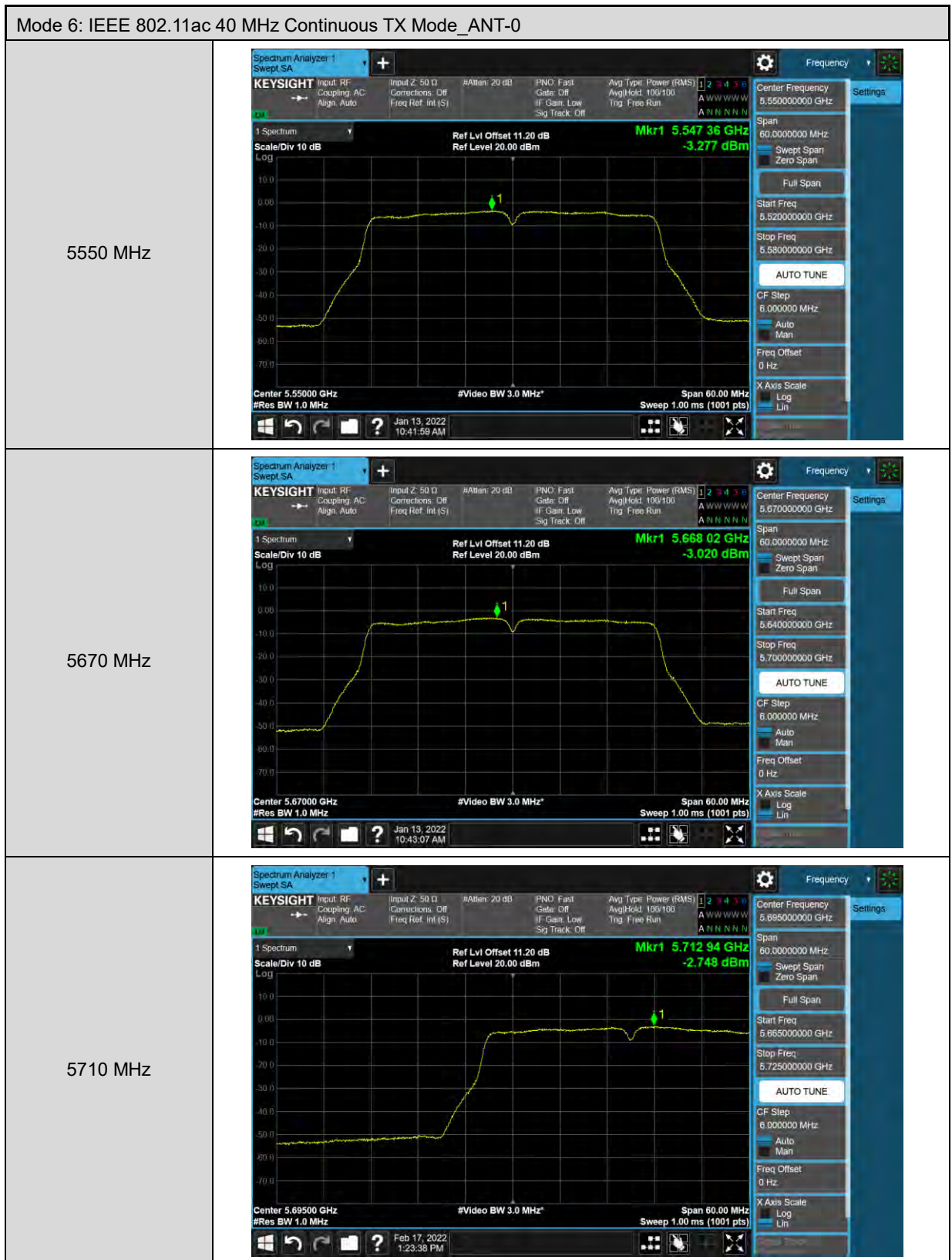
5190 MHz



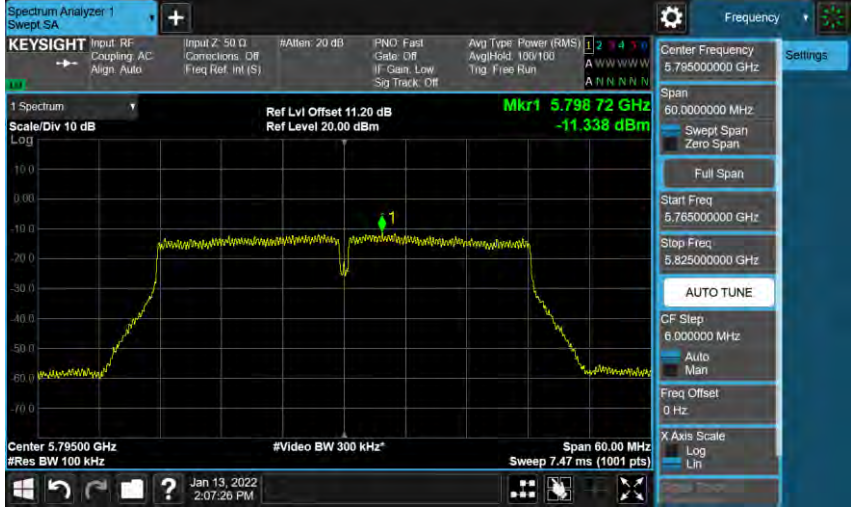
5230 MHz



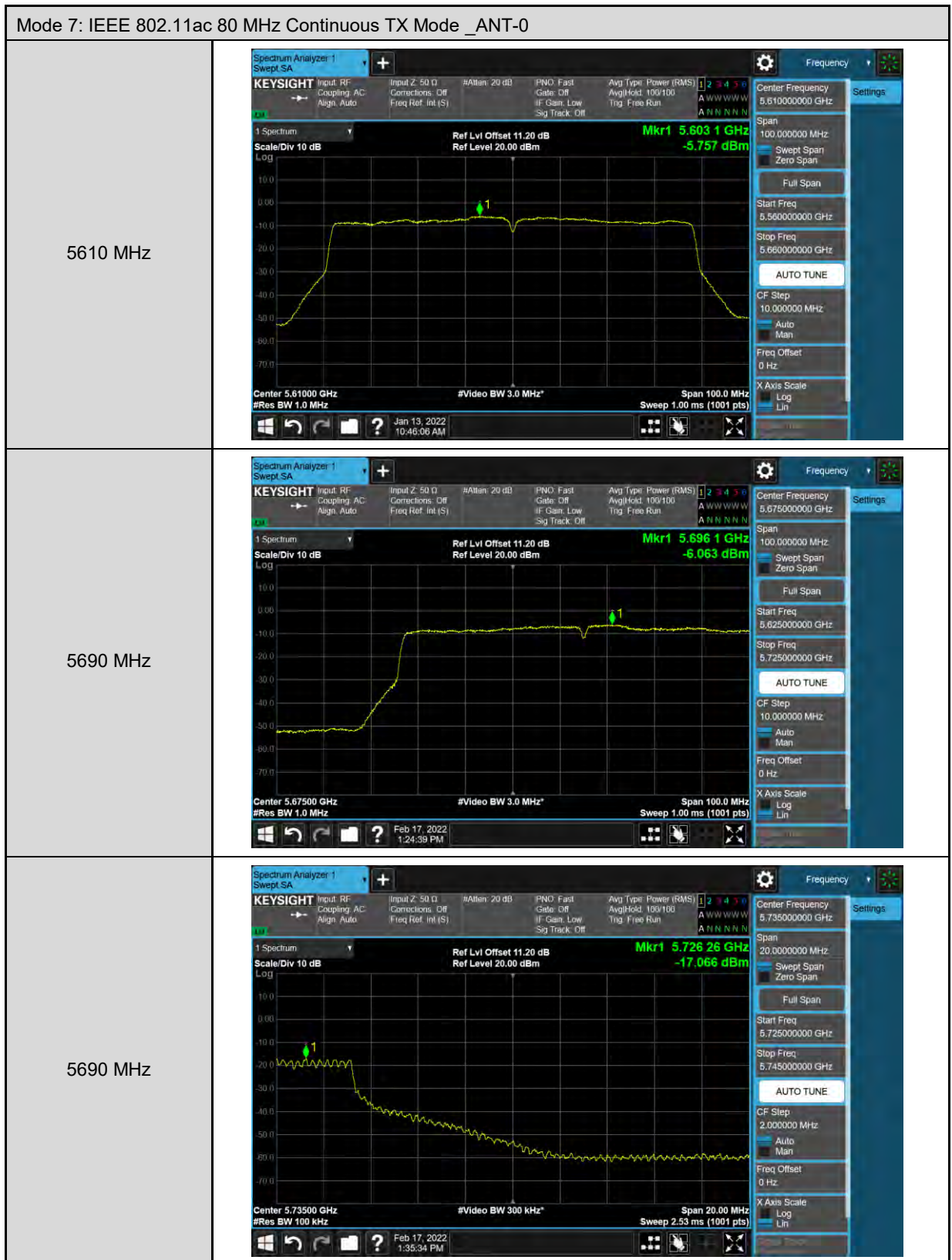


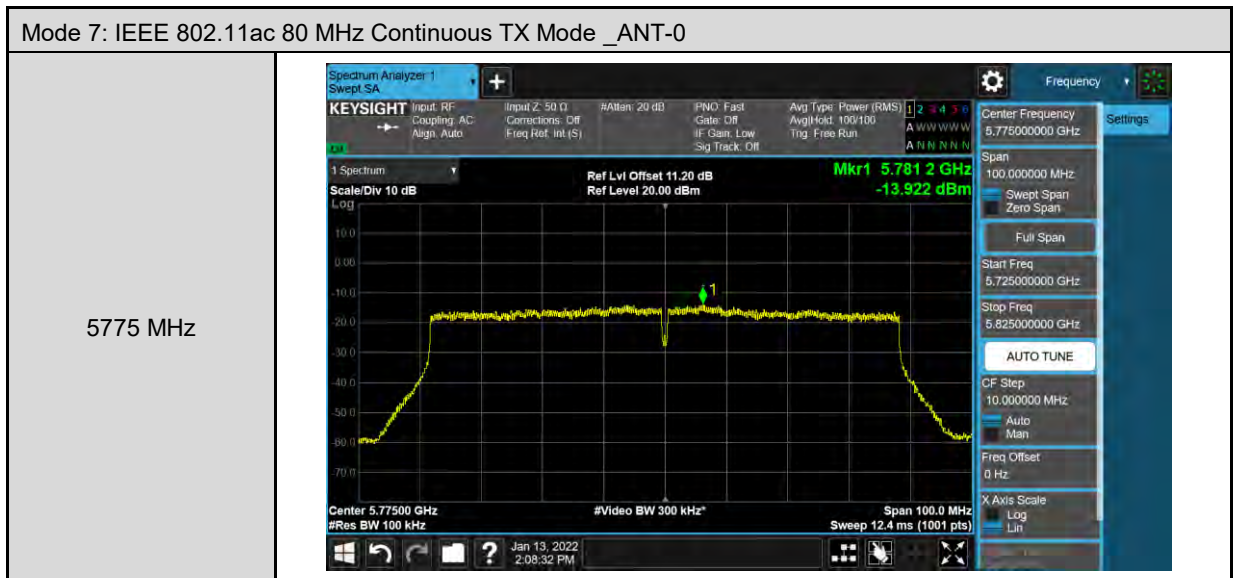


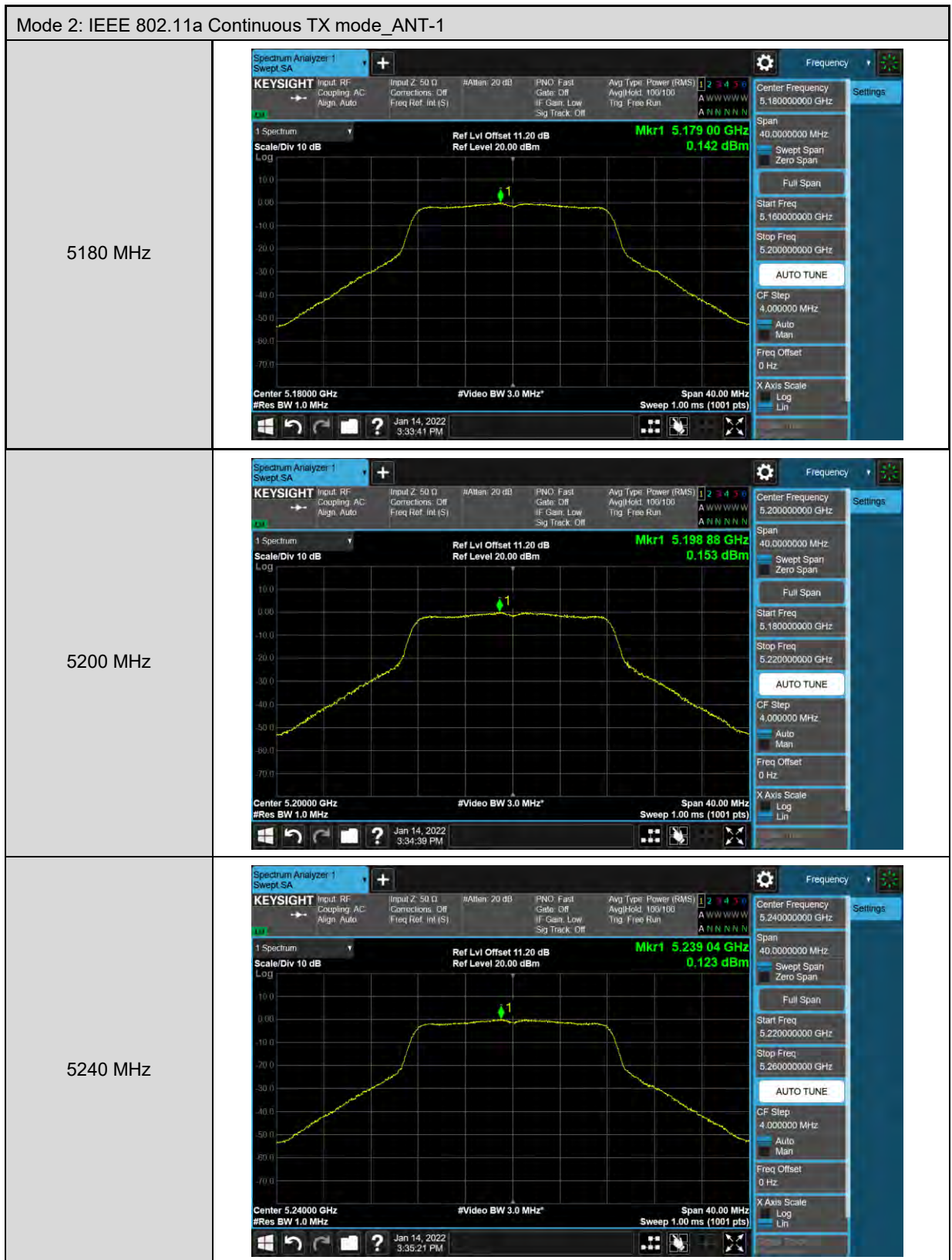
Mode 6: IEEE 802.11ac 40 MHz Continuous TX Mode_ANT-0

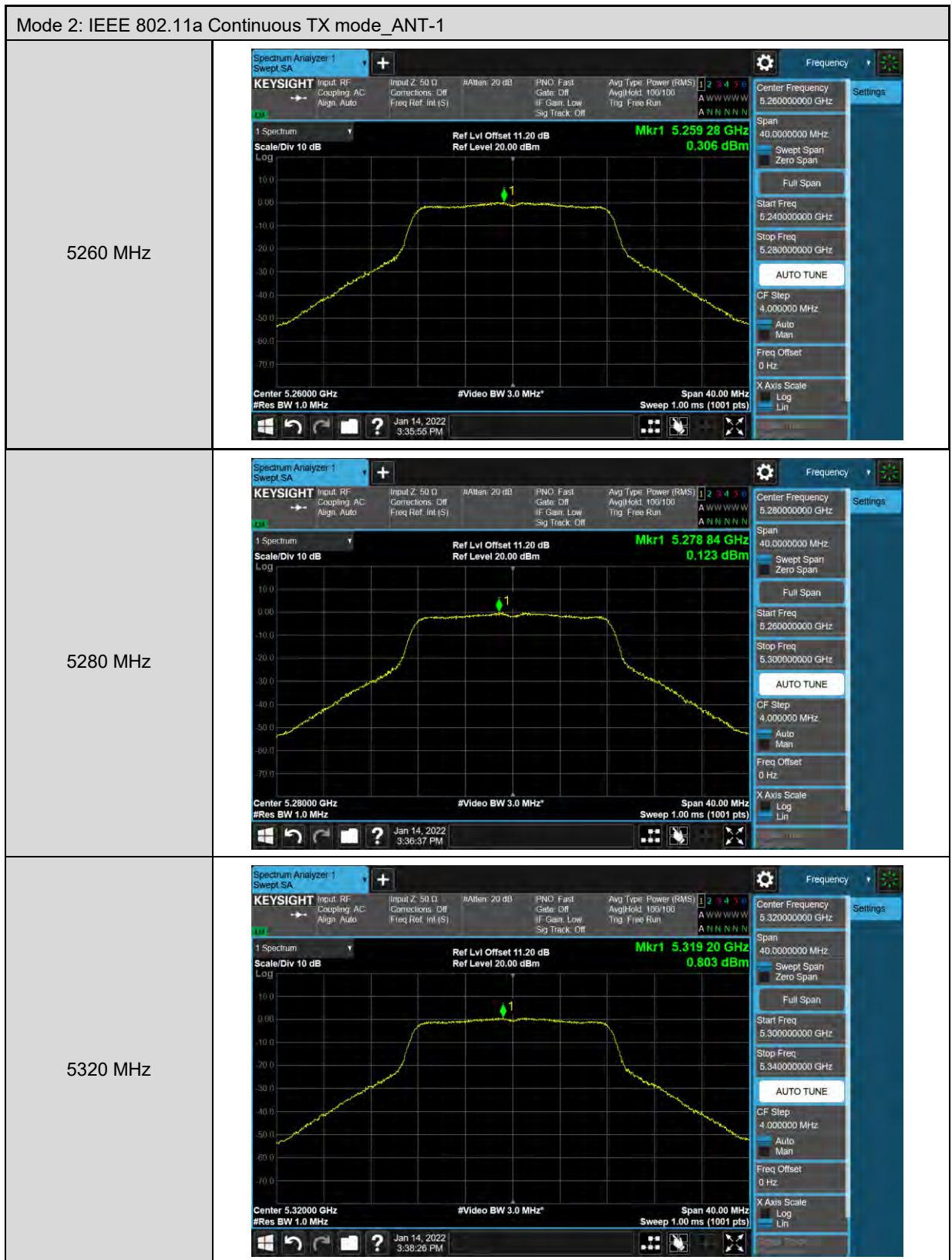
5710 MHz	
5755 MHz	
5795 MHz	

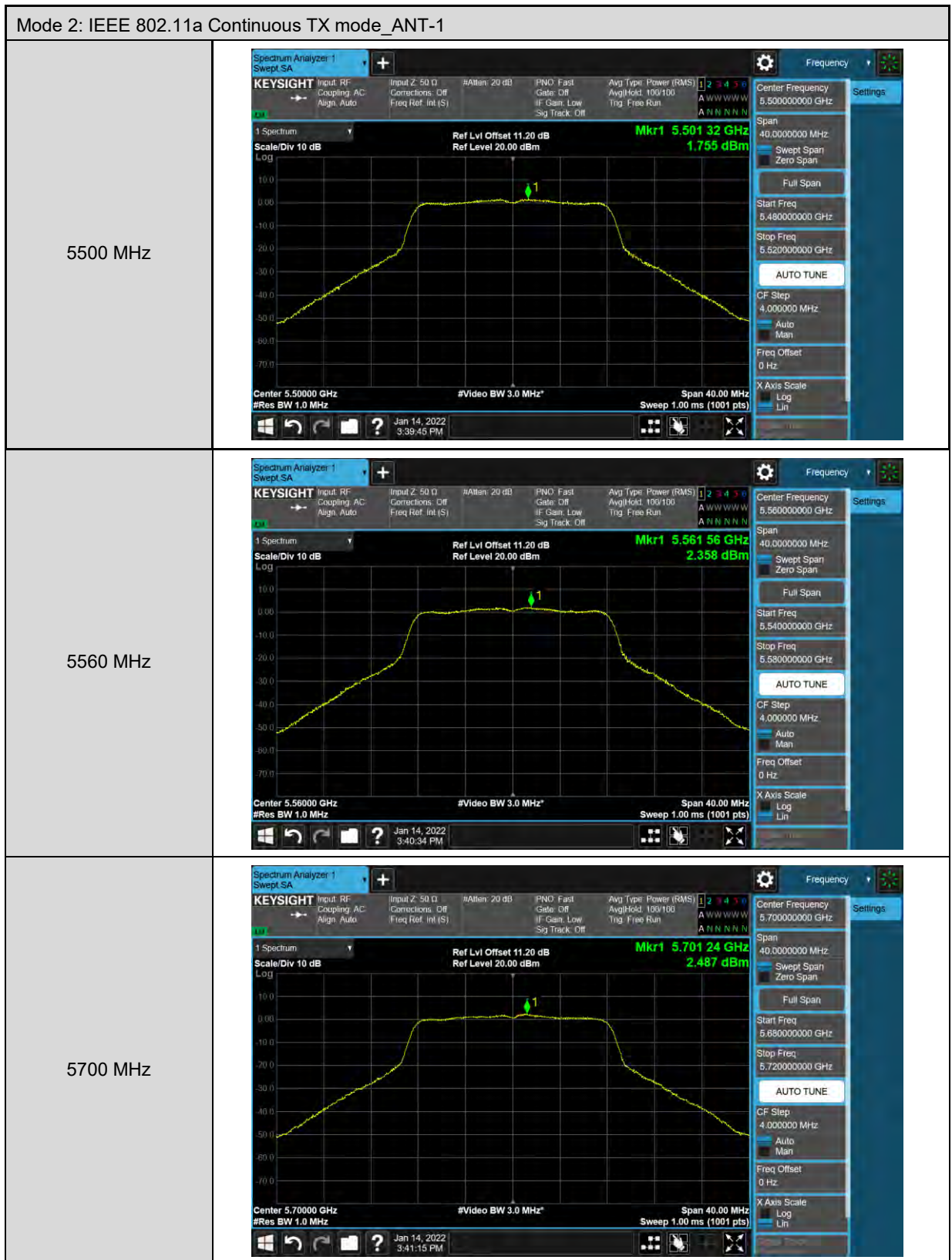
Mode 7: IEEE 802.11ac 80 MHz Continuous TX Mode _ANT-0	
5210 MHz	 The screenshot shows a Keysight Spectrum Analyzer interface. The center frequency is 5.210000 GHz. The span is 100.000000 MHz. The resolution bandwidth (RBW) is 3.0 MHz. The video bandwidth (VBW) is 3.0 MHz. The sweep time is 1.00 ms. The signal level is -7.109 dBm. The reference level is 20.00 dBm. The reference level offset is 11.20 dB. The signal is centered at 5.210000 GHz.
5290 MHz	 The screenshot shows a Keysight Spectrum Analyzer interface. The center frequency is 5.290000 GHz. The span is 100.000000 MHz. The resolution bandwidth (RBW) is 3.0 MHz. The video bandwidth (VBW) is 3.0 MHz. The sweep time is 1.00 ms. The signal level is -7.571 dBm. The reference level is 20.00 dBm. The reference level offset is 11.20 dB. The signal is centered at 5.290000 GHz.
5530 MHz	 The screenshot shows a Keysight Spectrum Analyzer interface. The center frequency is 5.530000 GHz. The span is 100.000000 MHz. The resolution bandwidth (RBW) is 3.0 MHz. The video bandwidth (VBW) is 3.0 MHz. The sweep time is 1.00 ms. The signal level is -6.005 dBm. The reference level is 20.00 dBm. The reference level offset is 11.20 dB. The signal is centered at 5.530000 GHz.



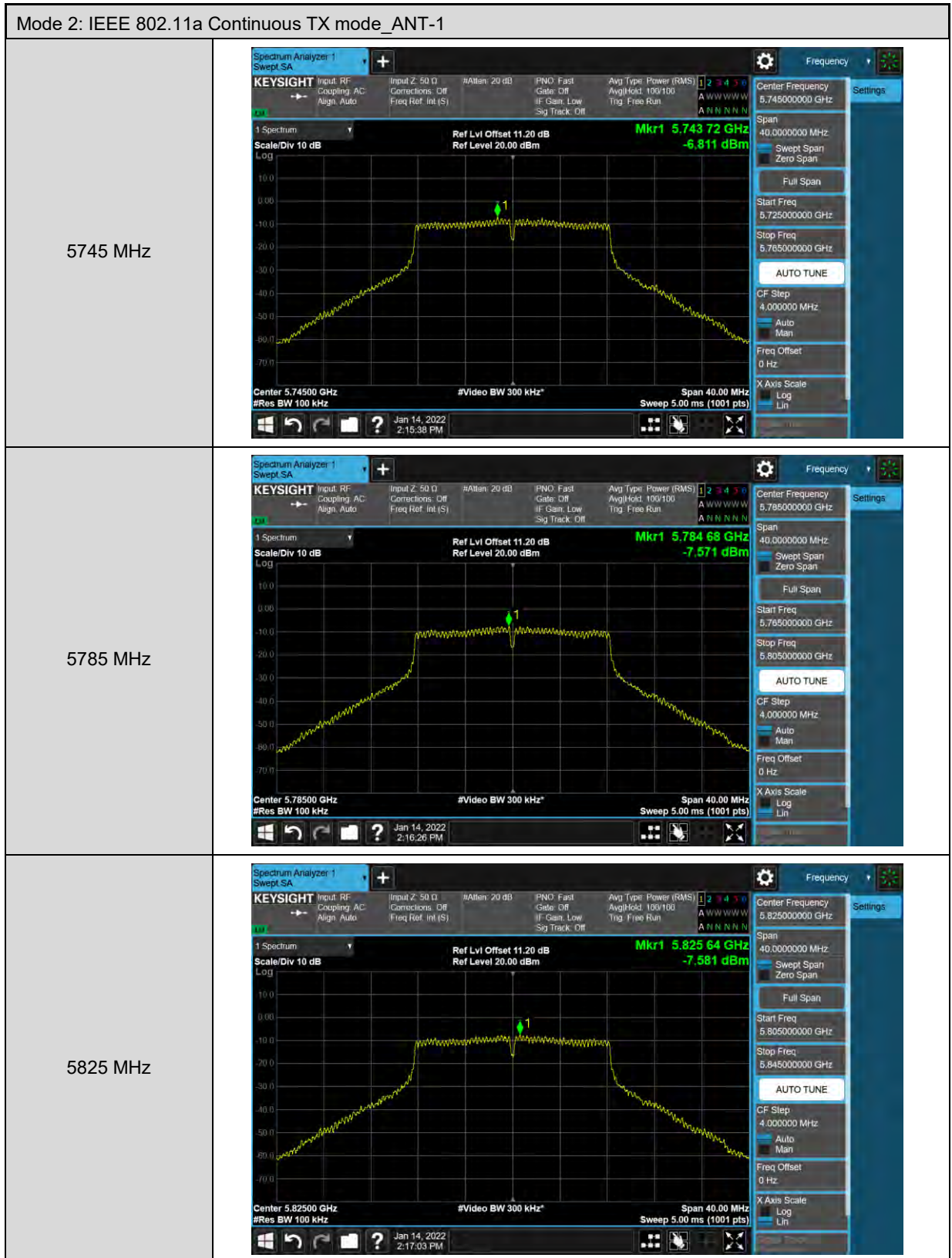




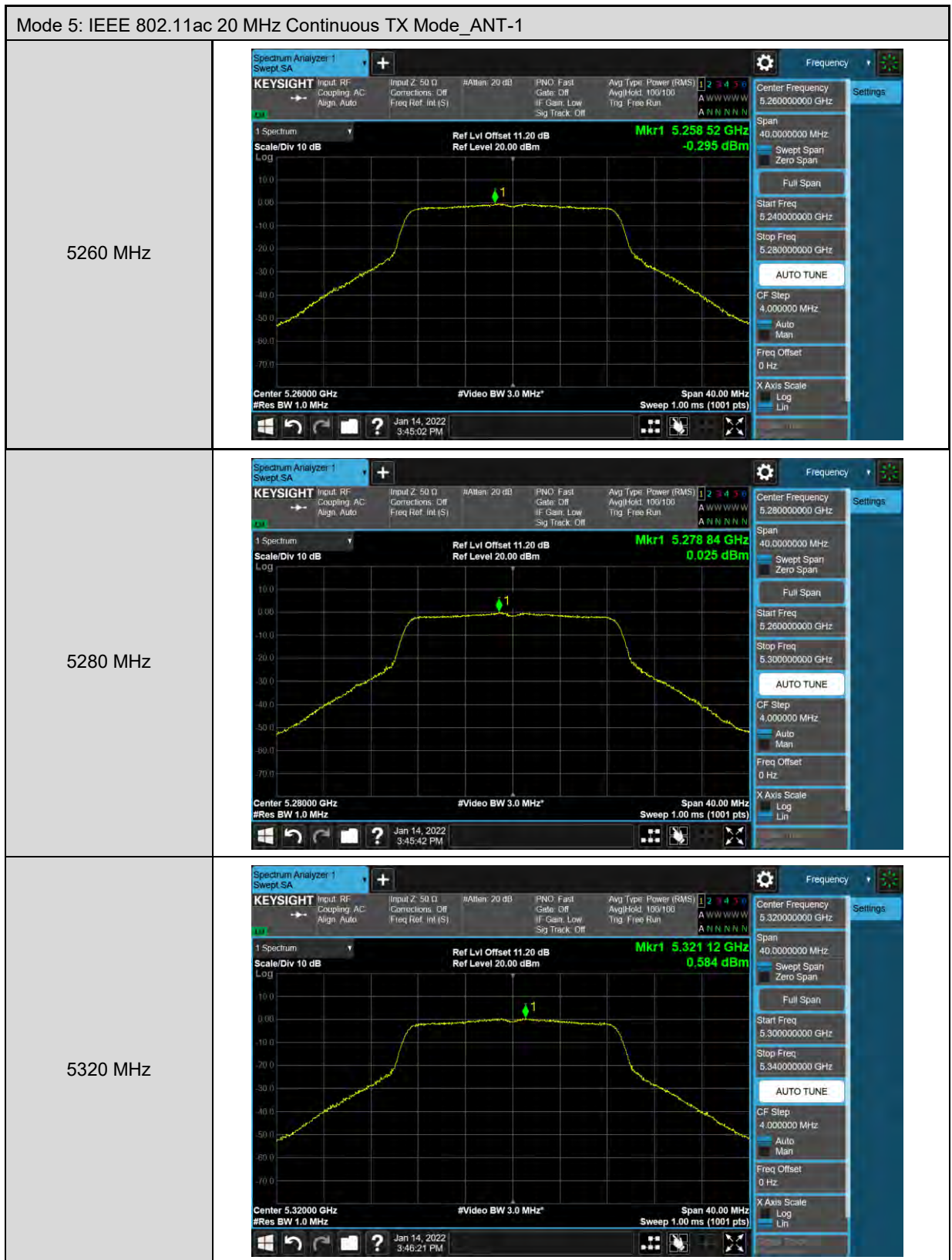








Mode 5: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-1	
5180 MHz	
5200 MHz	
5240 MHz	



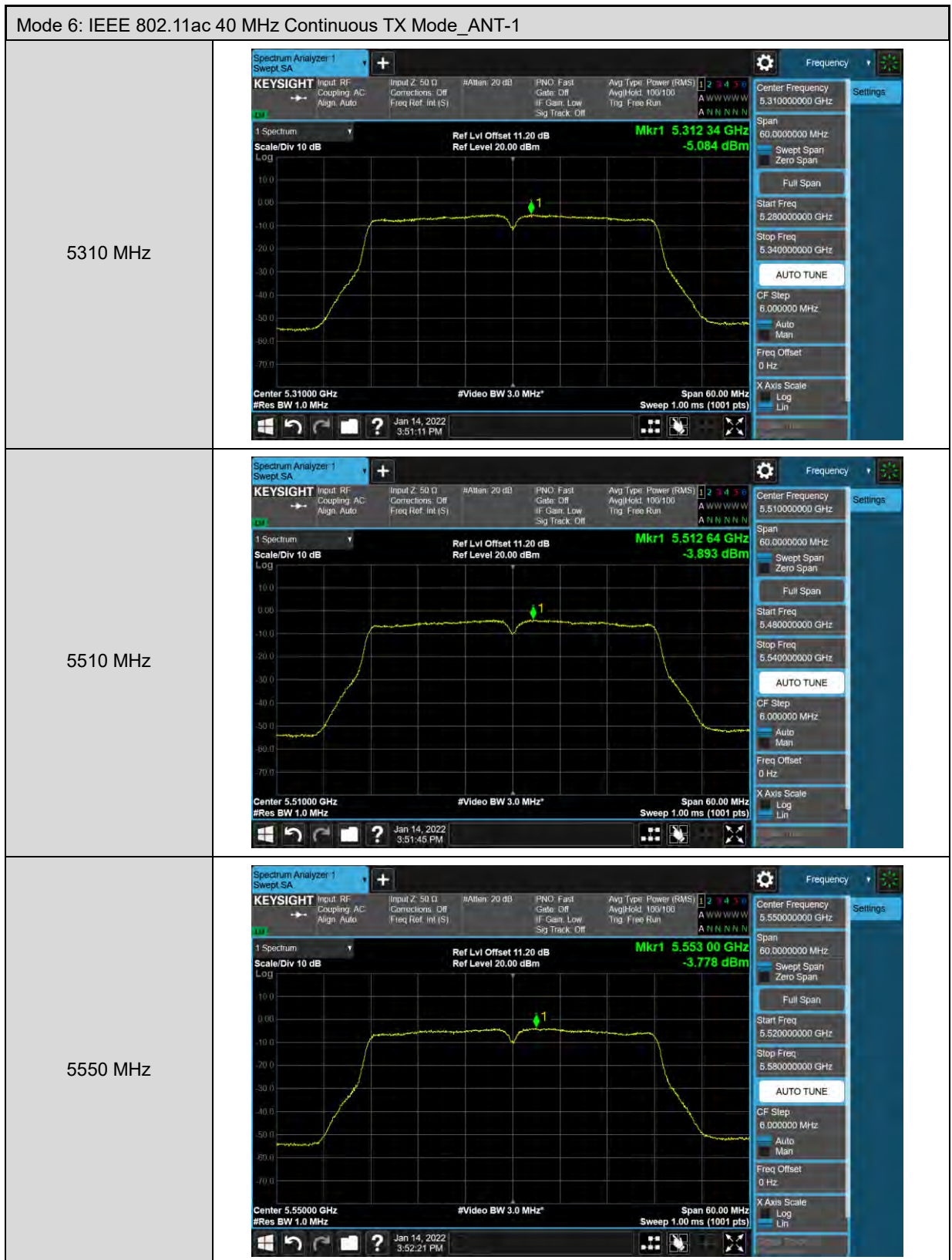
Mode 5: IEEE 802.11ac 20 MHz Continuous TX Mode_ANT-1

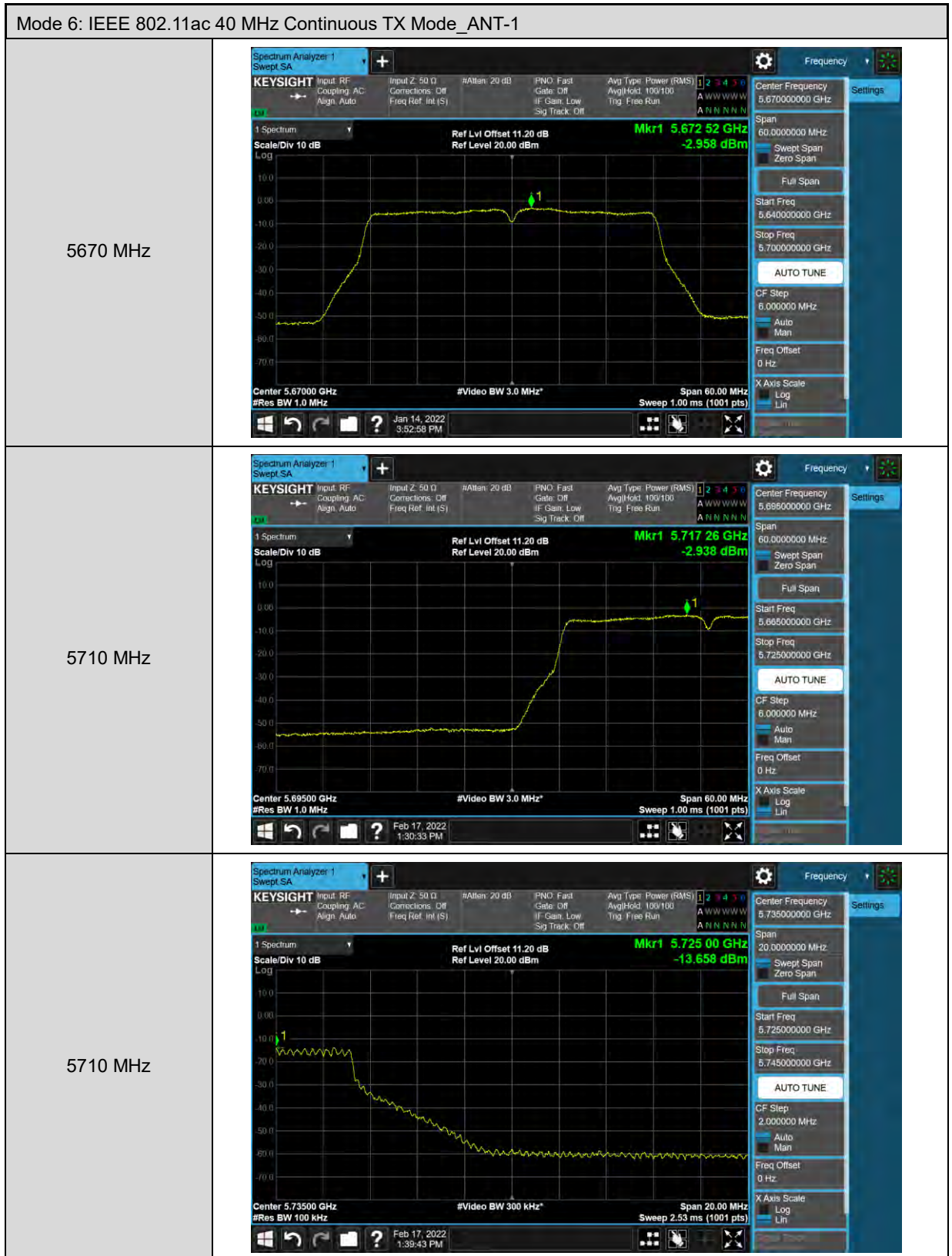
5500 MHz	
5560 MHz	
5700 MHz	

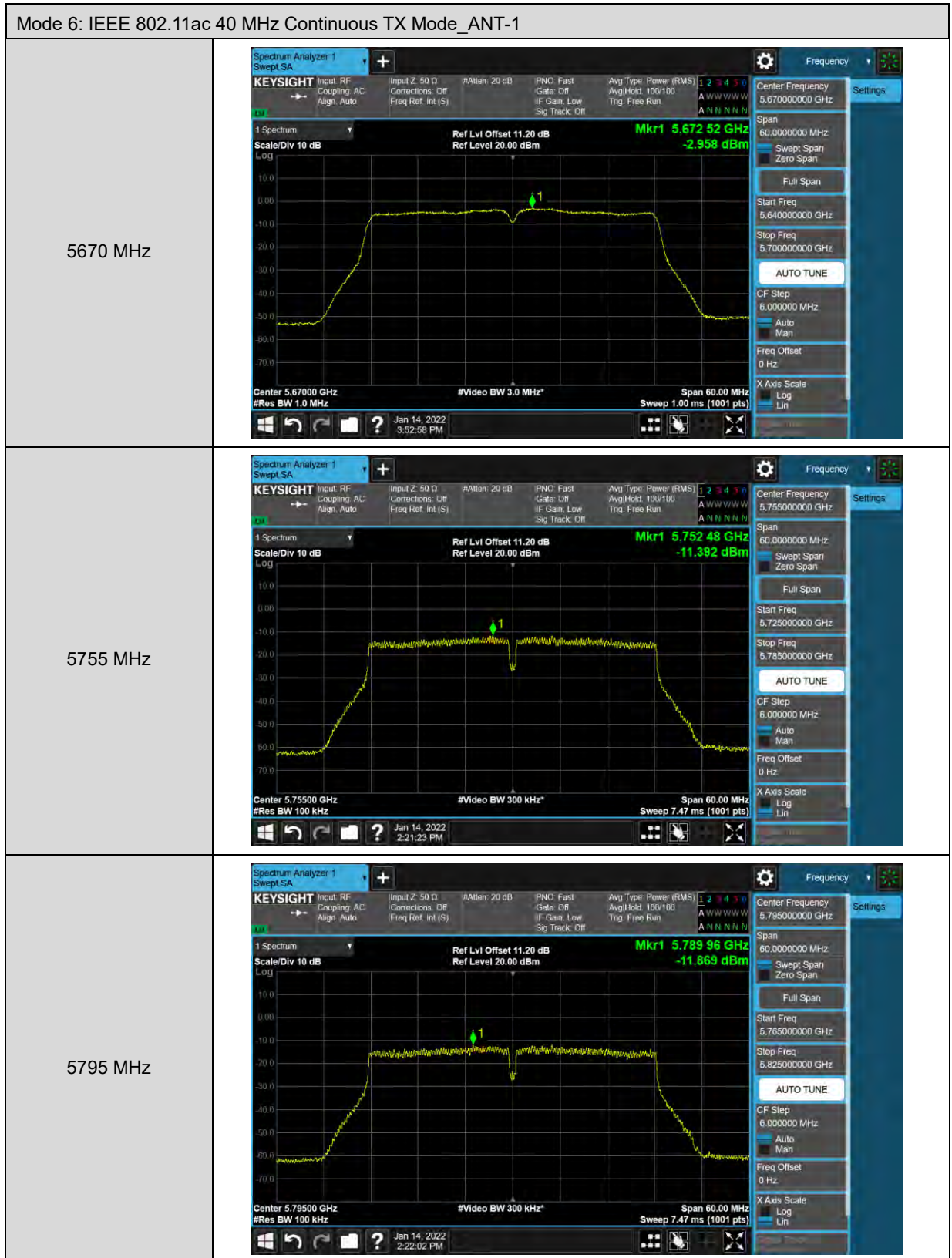




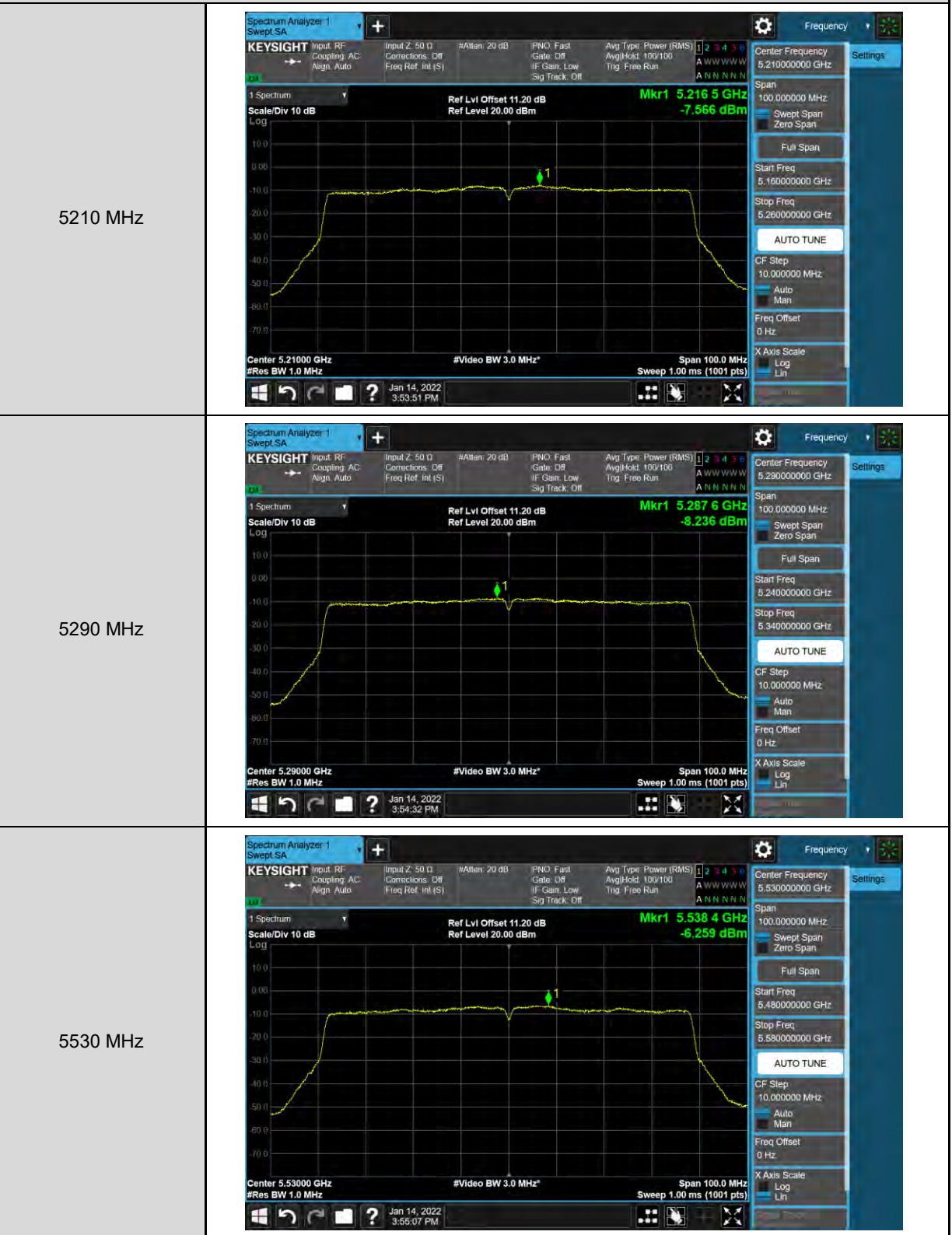


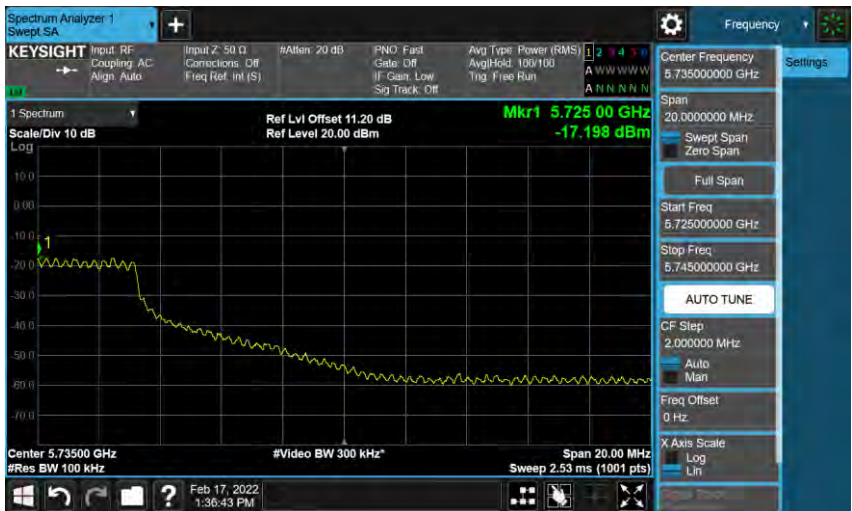




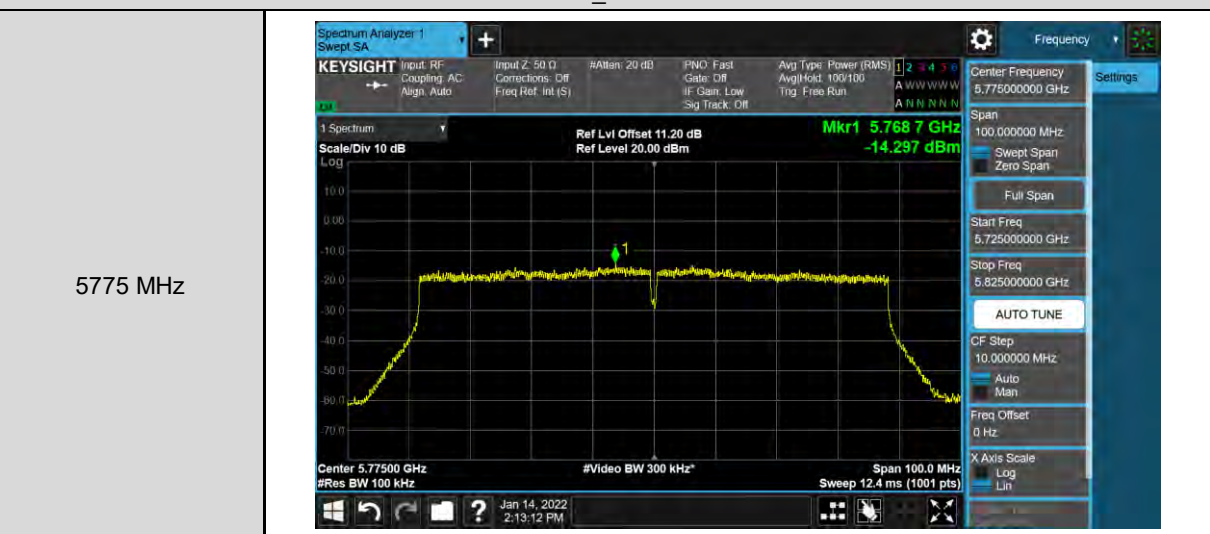


Mode 7: IEEE 802.11ac 80 MHz Continuous TX Mode _ANT-1



Mode 7: IEEE 802.11ac 80 MHz Continuous TX Mode _ANT-1	
5610 MHz	 The screenshot shows a Keysight Spectrum Analyzer interface. The center frequency is 5.610000 GHz. The span is 100.000000 MHz. The resolution bandwidth (RBW) is 3.0 MHz. The video bandwidth (VBW) is 3.0 MHz. The sweep time is 1.00 ms. The signal level is -6.102 dBm. The reference level is 20.00 dBm. The reference level offset is 11.20 dB. The scale/div is 10 dB. The log scale is selected. The X-axis scale is linear. The Y-axis scale is logarithmic. The date and time are Jan 14, 2022, 3:55:43 PM.
5690 MHz	 The screenshot shows a Keysight Spectrum Analyzer interface. The center frequency is 5.675000 GHz. The span is 100.000000 MHz. The resolution bandwidth (RBW) is 3.0 MHz. The video bandwidth (VBW) is 3.0 MHz. The sweep time is 1.00 ms. The signal level is -6.250 dBm. The reference level is 20.00 dBm. The reference level offset is 11.20 dB. The scale/div is 10 dB. The log scale is selected. The X-axis scale is linear. The Y-axis scale is logarithmic. The date and time are Feb 17, 2022, 1:26:54 PM.
5690 MHz	 The screenshot shows a Keysight Spectrum Analyzer interface. The center frequency is 5.735000 GHz. The span is 20.000000 MHz. The resolution bandwidth (RBW) is 100 kHz. The video bandwidth (VBW) is 300 kHz. The sweep time is 2.53 ms. The signal level is -17.198 dBm. The reference level is 20.00 dBm. The reference level offset is 11.20 dB. The scale/div is 10 dB. The log scale is selected. The X-axis scale is linear. The Y-axis scale is logarithmic. The date and time are Feb 17, 2022, 1:36:43 PM.

Mode 7: IEEE 802.11ac 80 MHz Continuous TX Mode _ANT-1



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