

RF Test Data for RLAN(5.2G) (Conducted Measurement)**Product Name: OTT+speaker****Trade Mark: /****Test Model: SK410D****FCC ID: 2AOVU-SK410D****Environmental Conditions**

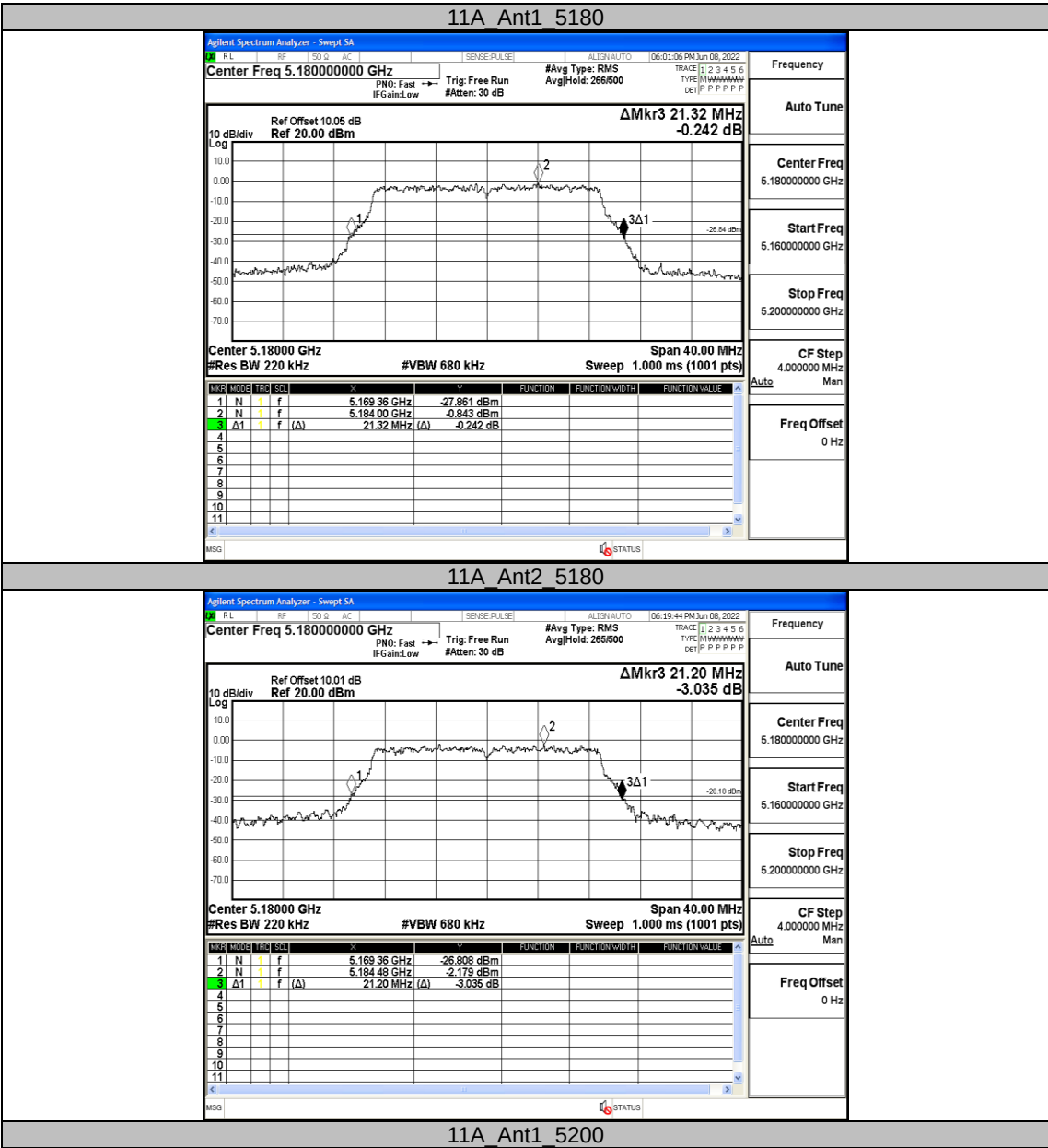
Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

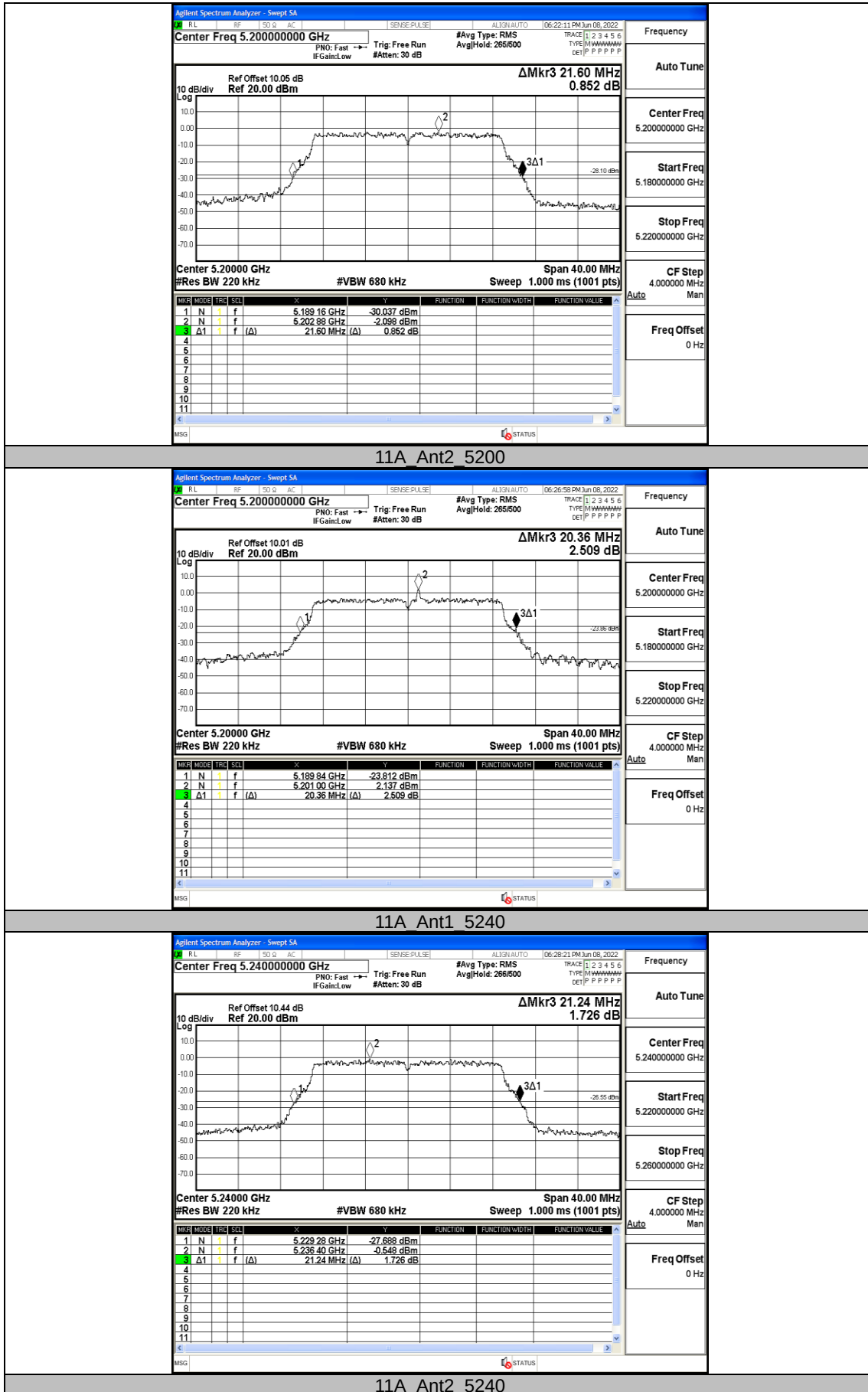
Appendix A1: Emission Bandwidth**Test Result**

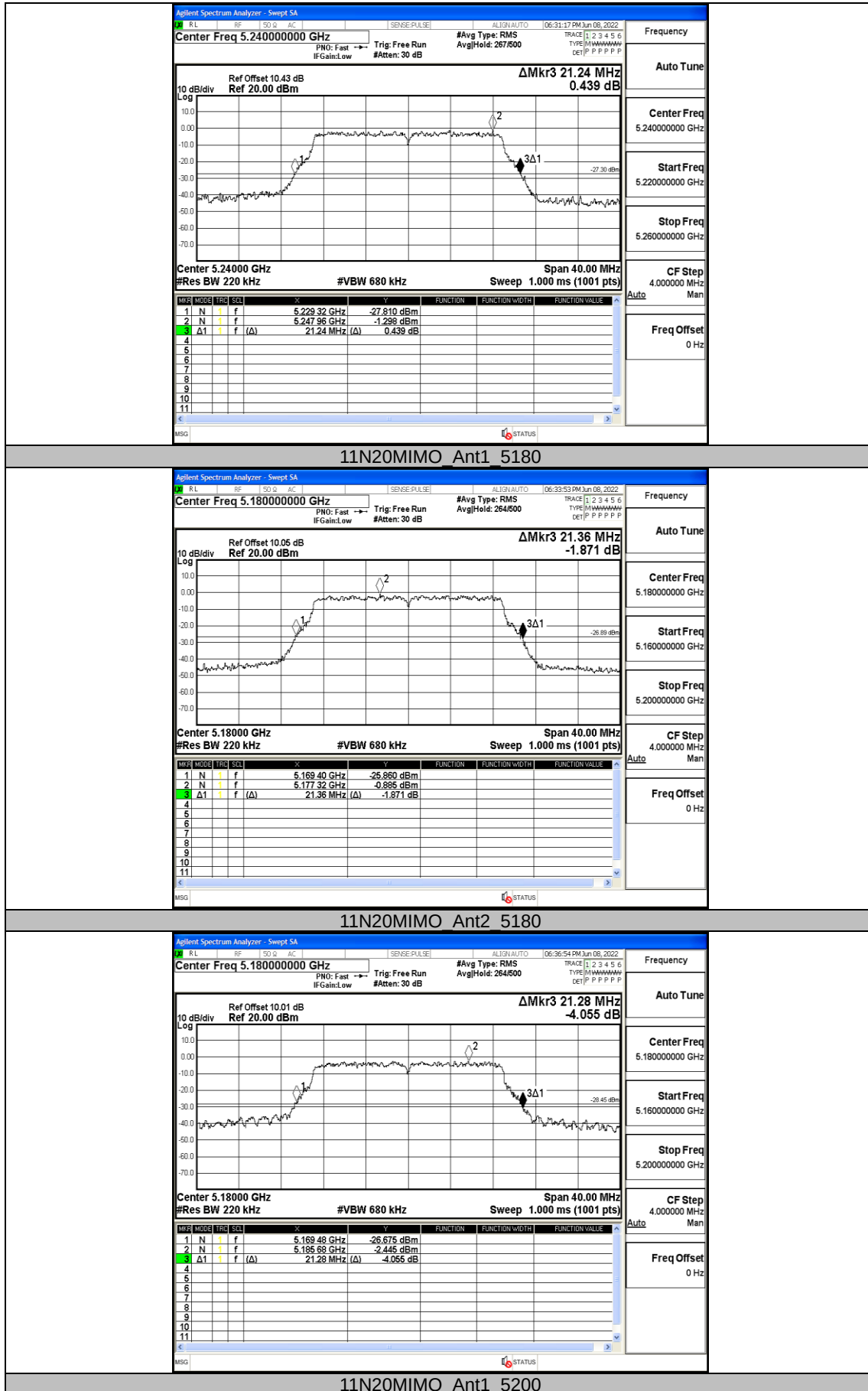
TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	21.320	5169.360	5190.680	---	---
	Ant2	5180	21.200	5169.360	5190.560	---	---
	Ant1	5200	21.600	5189.160	5210.760	---	---
	Ant2	5200	20.360	5189.840	5210.200	---	---
	Ant1	5240	21.240	5229.280	5250.520	---	---
	Ant2	5240	21.240	5229.320	5250.560	---	---
11N20MIMO	Ant1	5180	21.360	5169.400	5190.760	---	---
	Ant2	5180	21.280	5169.480	5190.760	---	---
	Ant1	5200	21.560	5189.240	5210.800	---	---
	Ant2	5200	21.360	5189.320	5210.680	---	---
	Ant1	5240	21.160	5229.360	5250.520	---	---
	Ant2	5240	21.120	5229.400	5250.520	---	---
11N40MIMO	Ant1	5190	39.600	5170.400	5210.000	---	---
	Ant2	5190	39.520	5170.320	5209.840	---	---
	Ant1	5230	39.760	5210.080	5249.840	---	---
	Ant2	5230	39.200	5210.640	5249.840	---	---
11AC20MIMO	Ant1	5180	21.520	5169.360	5190.880	---	---
	Ant2	5180	21.600	5169.160	5190.760	---	---
	Ant1	5200	21.160	5189.360	5210.520	---	---
	Ant2	5200	21.520	5189.080	5210.600	---	---
	Ant1	5240	21.640	5229.080	5250.720	---	---
	Ant2	5240	21.680	5229.080	5250.760	---	---
11AC40MIMO	Ant1	5190	40.080	5169.920	5210.000	---	---
	Ant2	5190	40.400	5169.840	5210.240	---	---
	Ant1	5230	39.920	5210.080	5250.000	---	---
	Ant2	5230	39.920	5210.080	5250.000	---	---
11AC80MIMO	Ant1	5210	81.440	5169.680	5251.120	---	---
	Ant2	5210	81.760	5169.360	5251.120	---	---
11AX20MIMO	Ant1	5180	21.360	5169.280	5190.640	---	---
	Ant2	5180	21.080	5169.480	5190.560	---	---
	Ant1	5200	21.080	5189.440	5210.520	---	---
	Ant2	5200	21.160	5189.440	5210.600	---	---
	Ant1	5240	21.240	5229.320	5250.560	---	---
	Ant2	5240	21.320	5229.400	5250.720	---	---
11AX40MIMO	Ant1	5190	39.840	5170.000	5209.840	---	---
	Ant2	5190	39.840	5170.000	5209.840	---	---

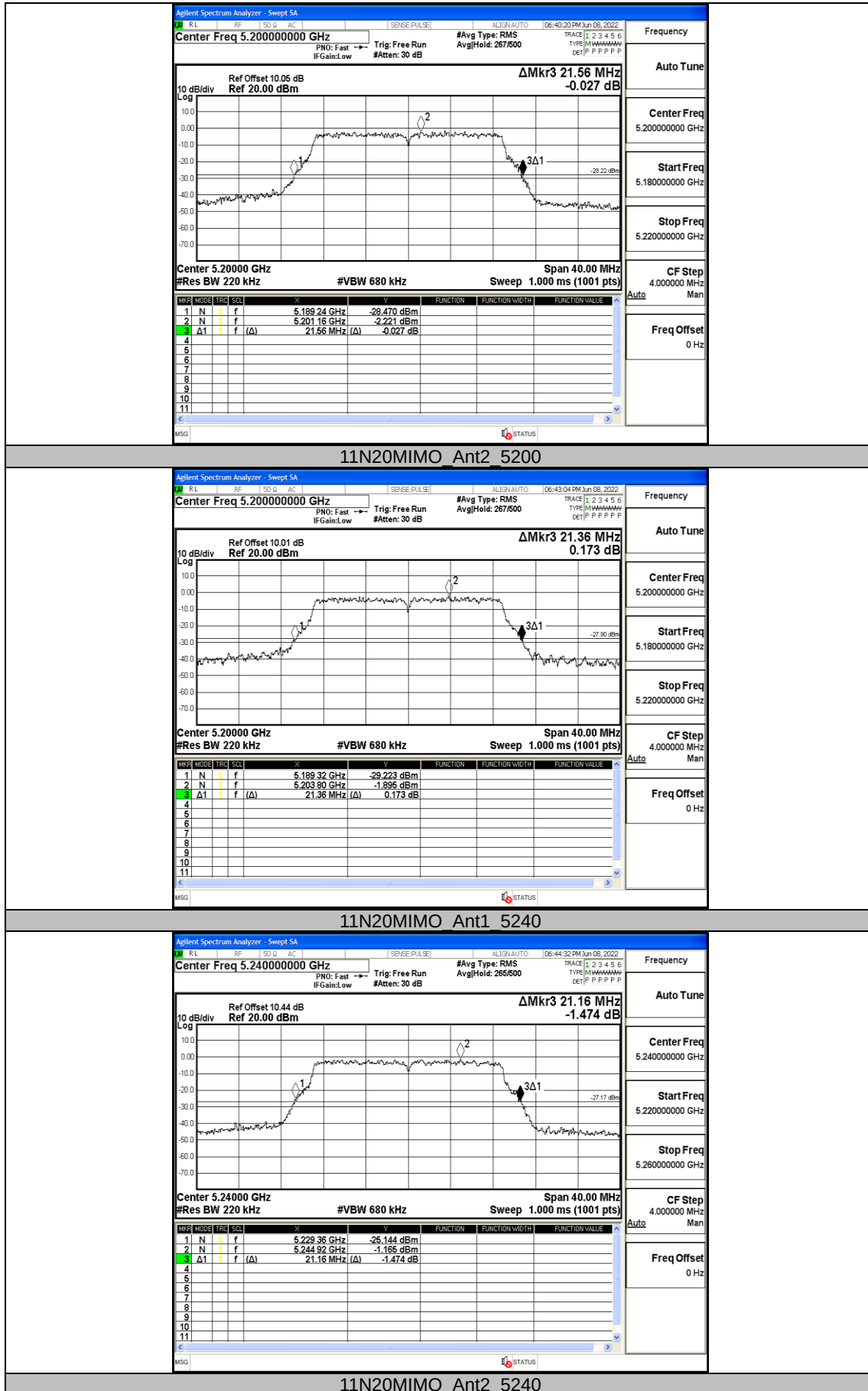
11AX80MIMO	Ant1	5230	39.920	5209.920	5249.840	---	---
	Ant2	5230	39.840	5210.240	5250.080	---	---
	Ant1	5210	80.960	5169.840	5250.800	---	---
	Ant2	5210	81.280	5169.680	5250.960	---	---

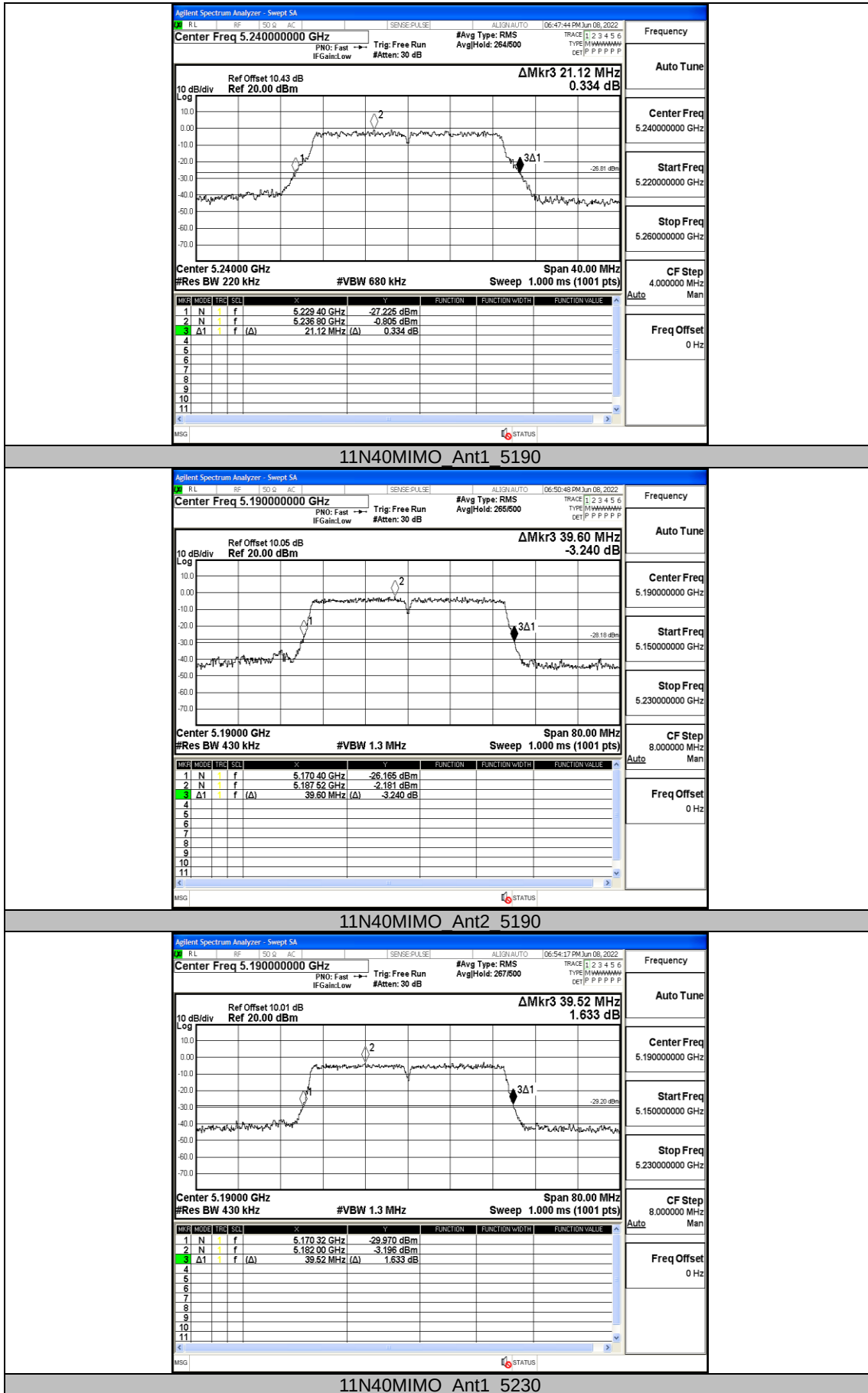
Test Graphs

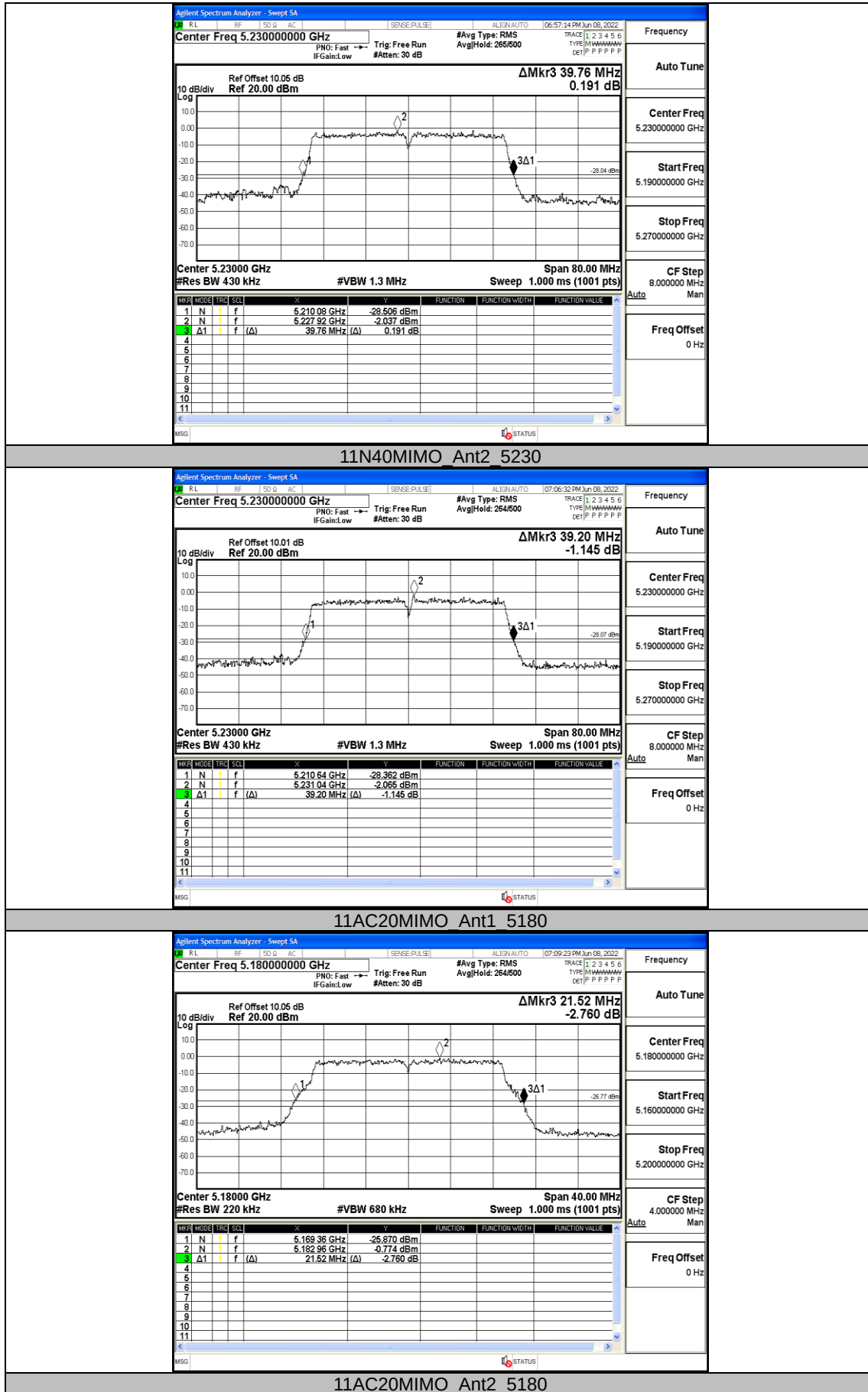


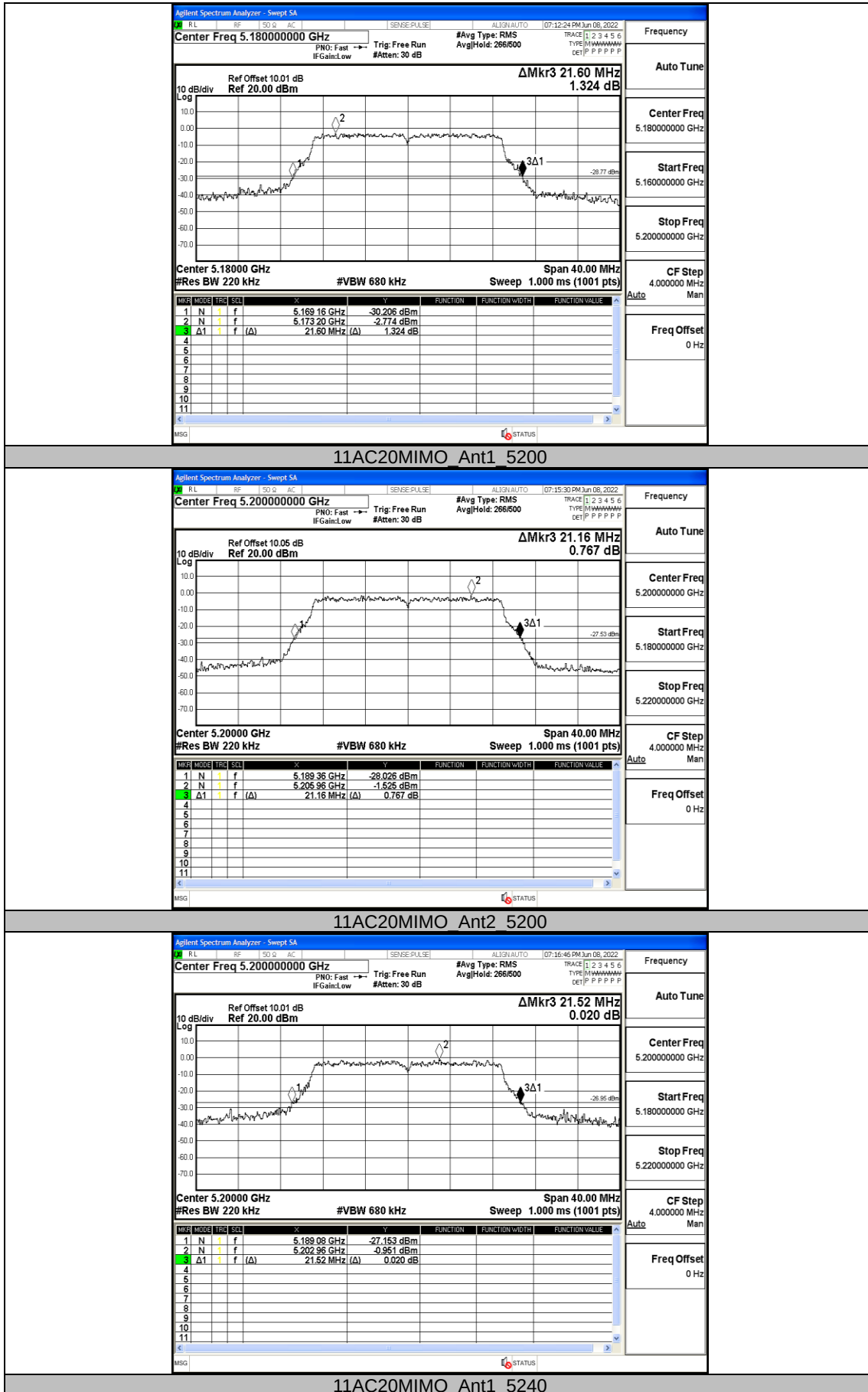


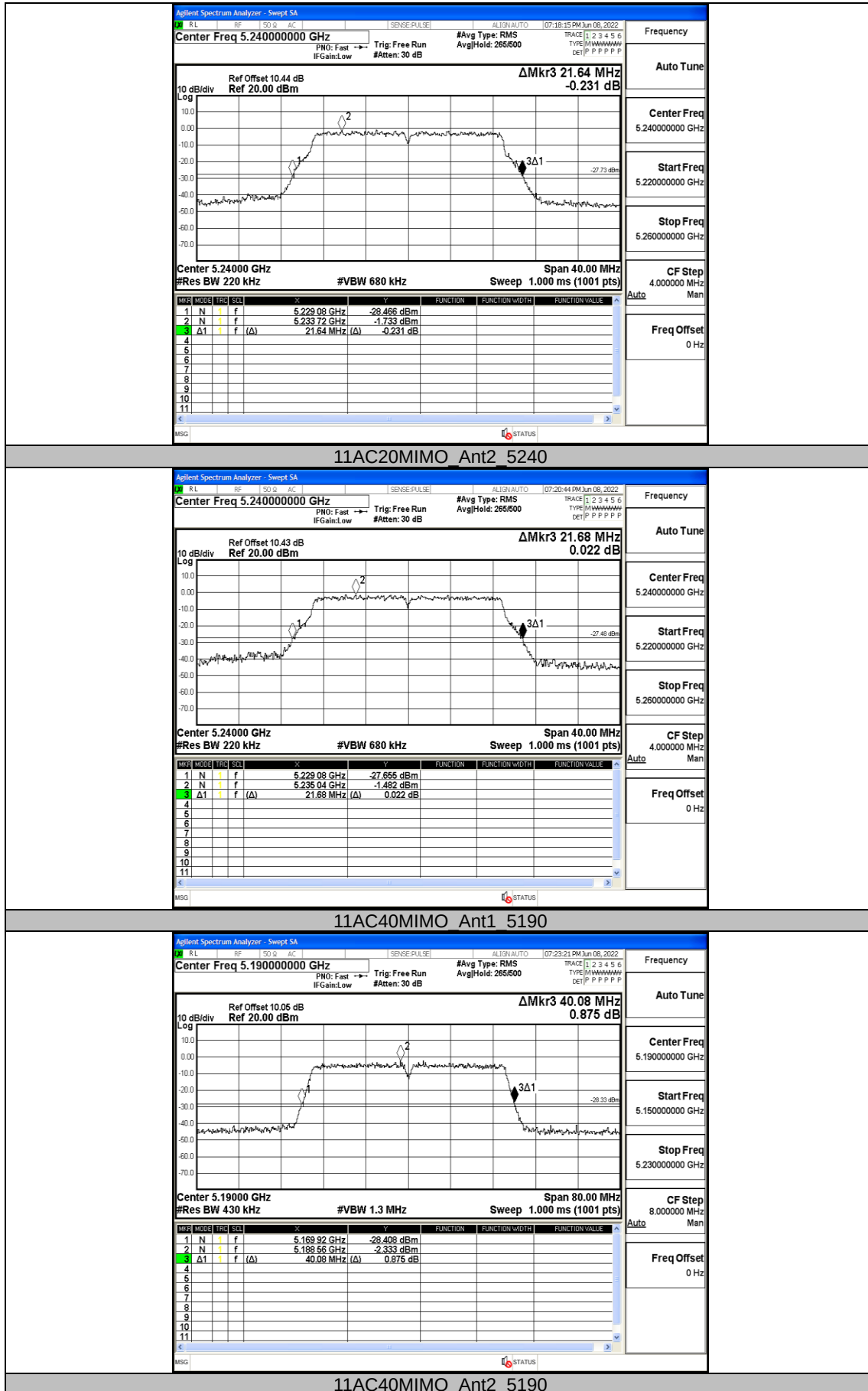


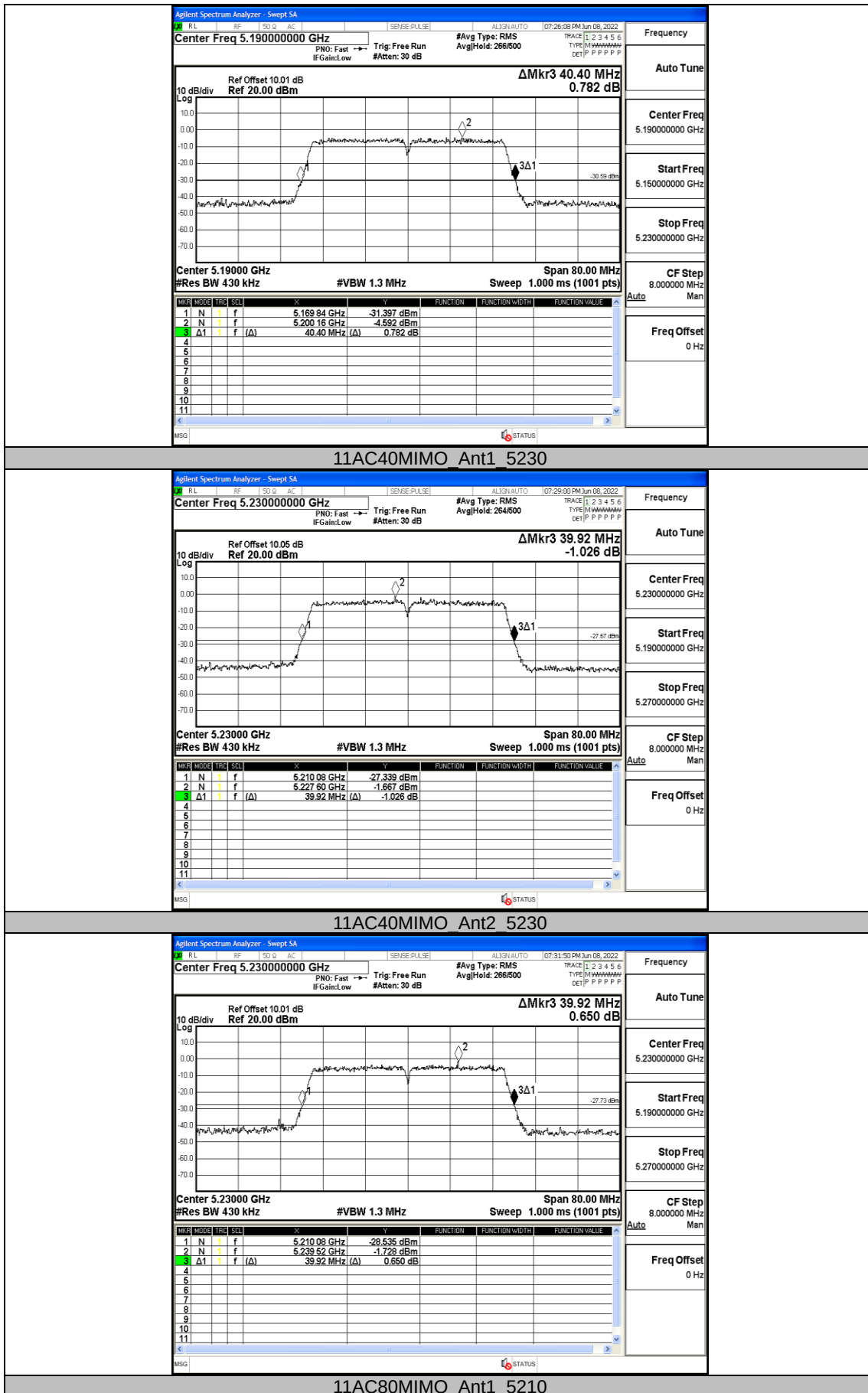


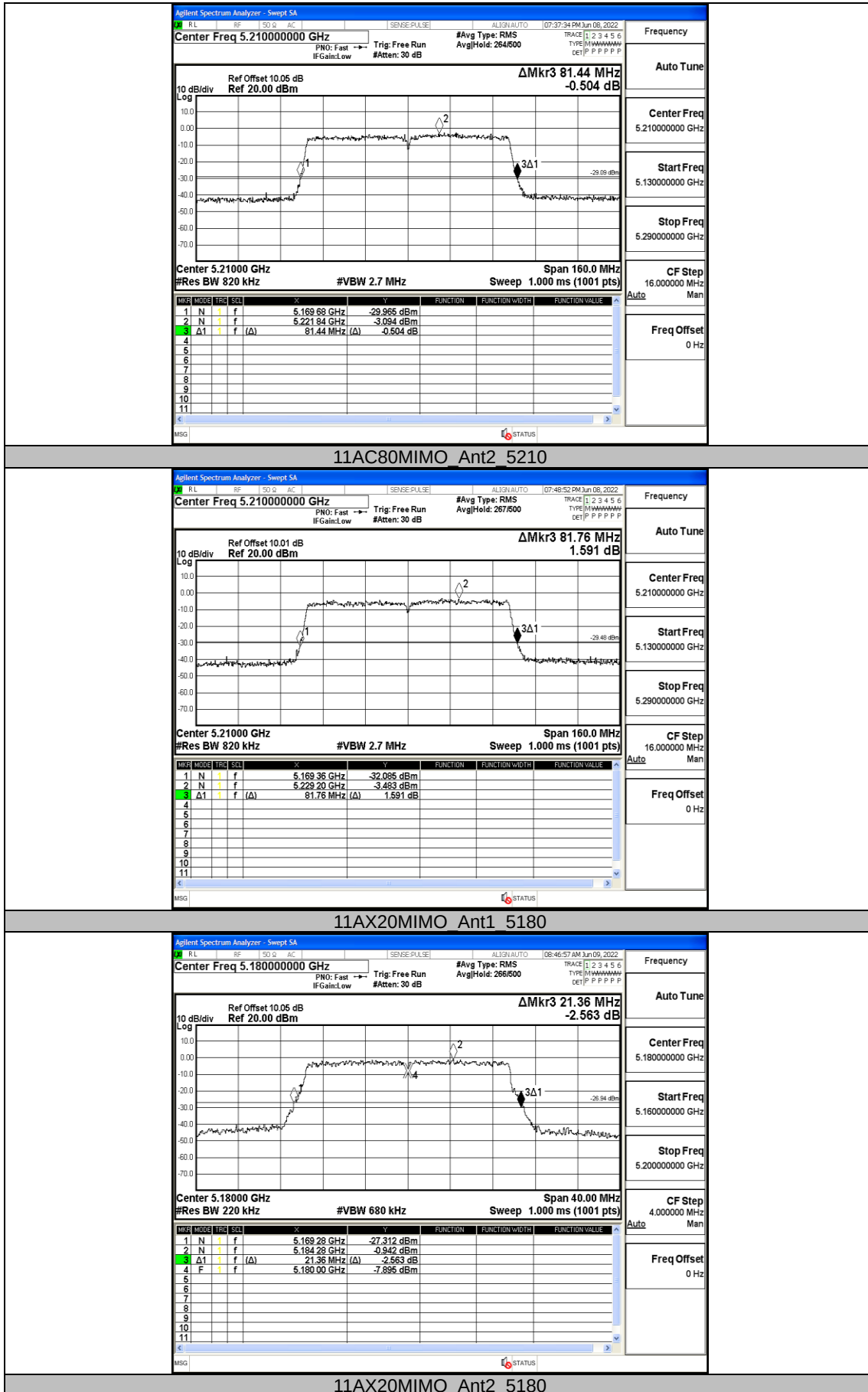


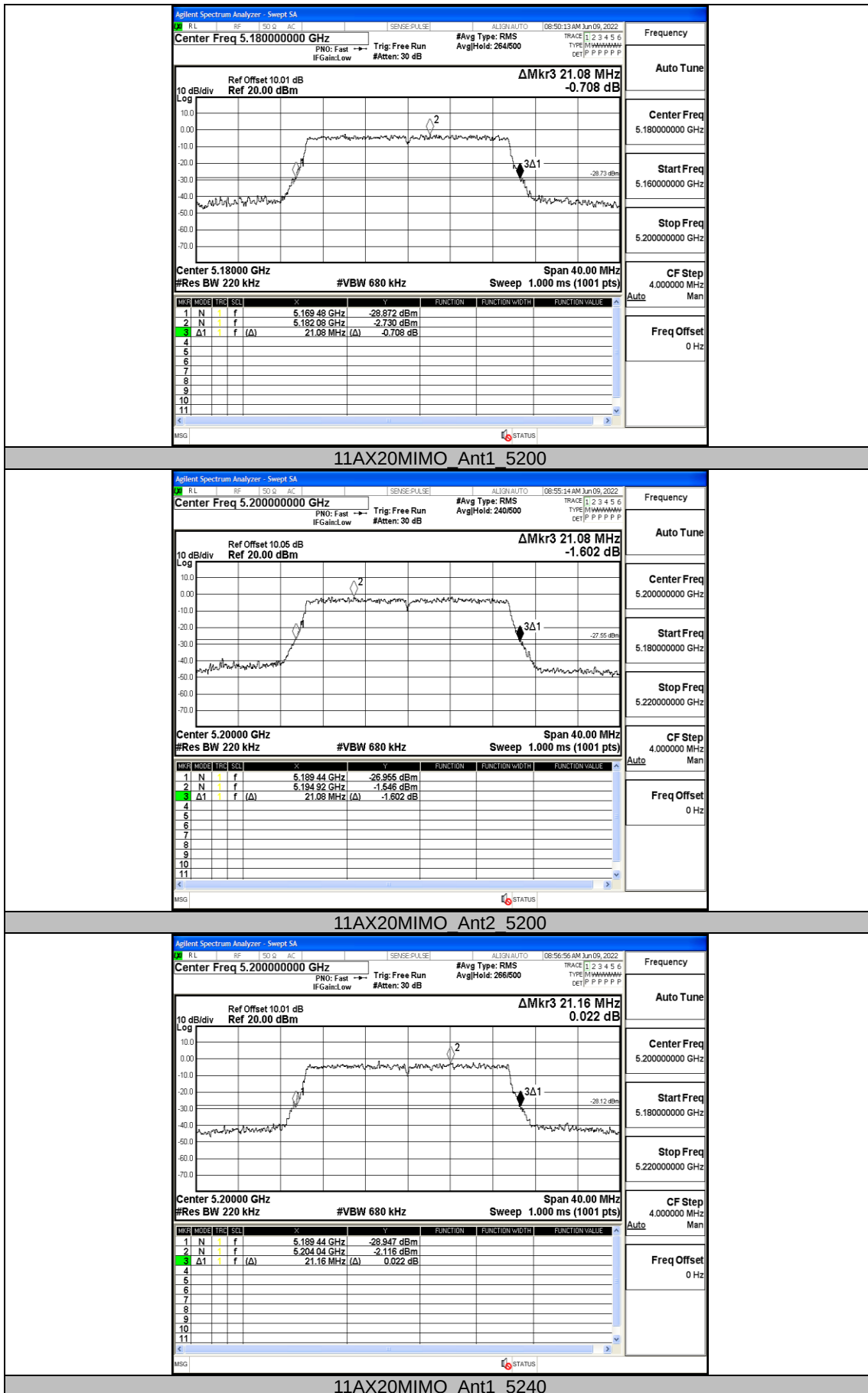


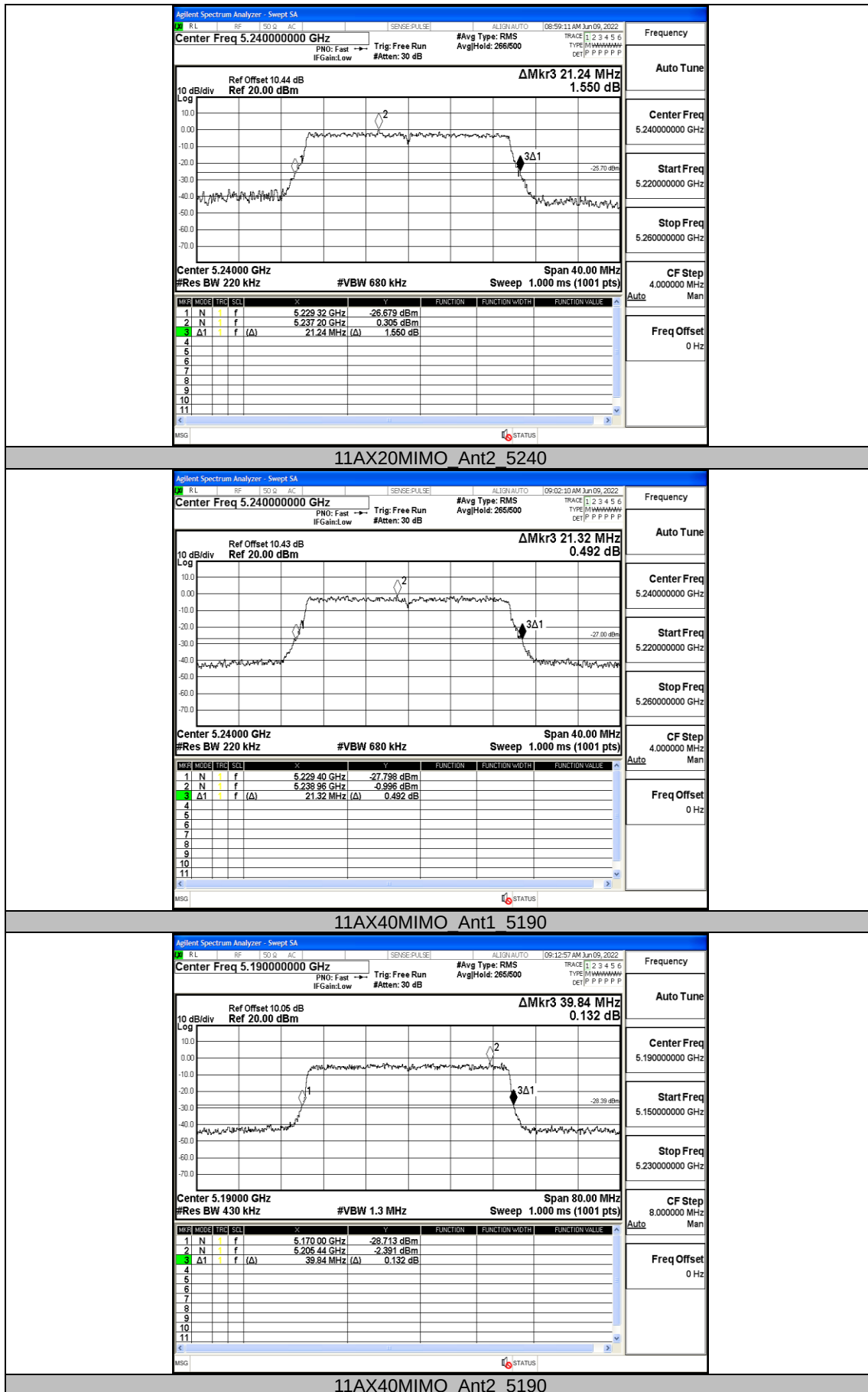


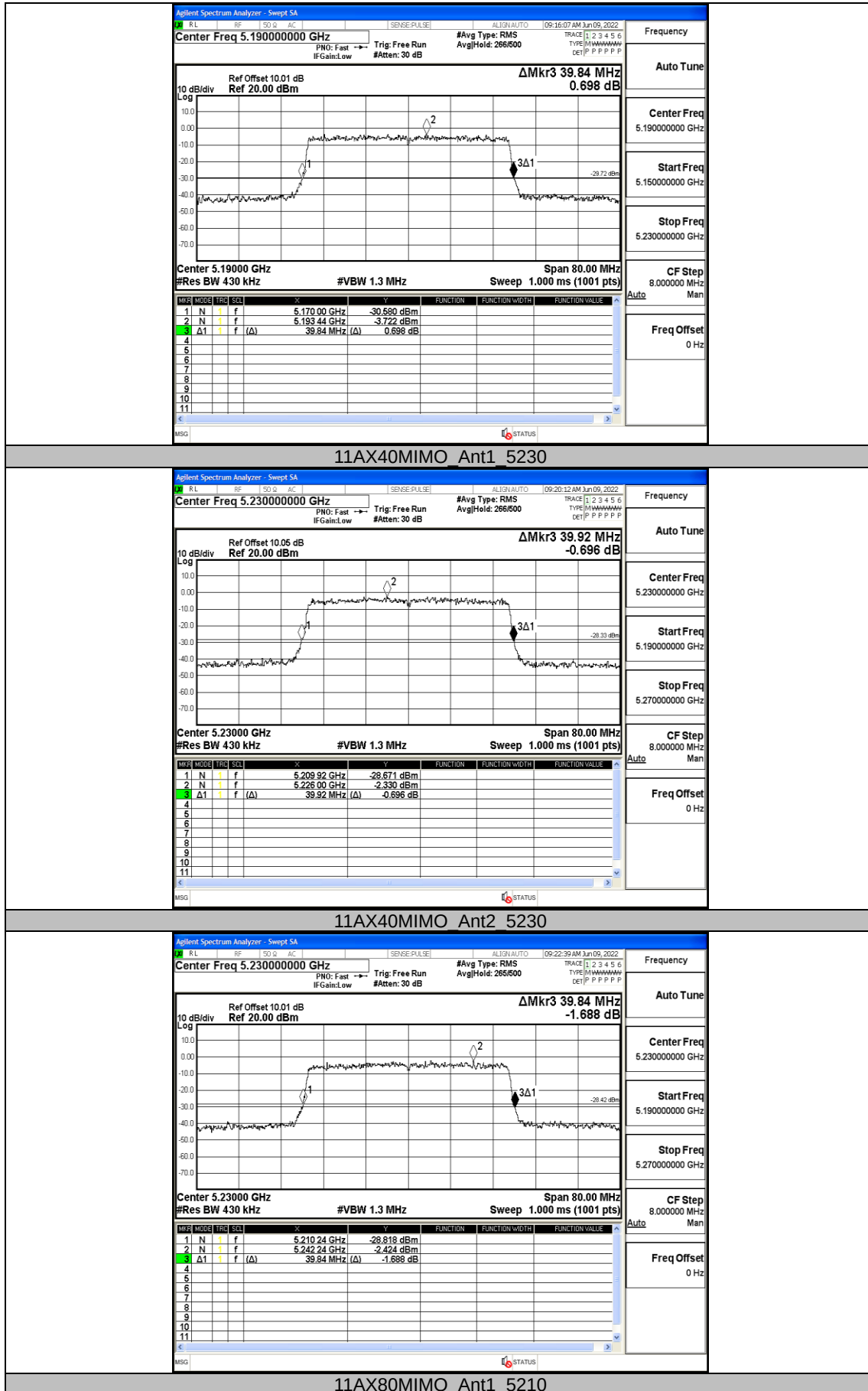


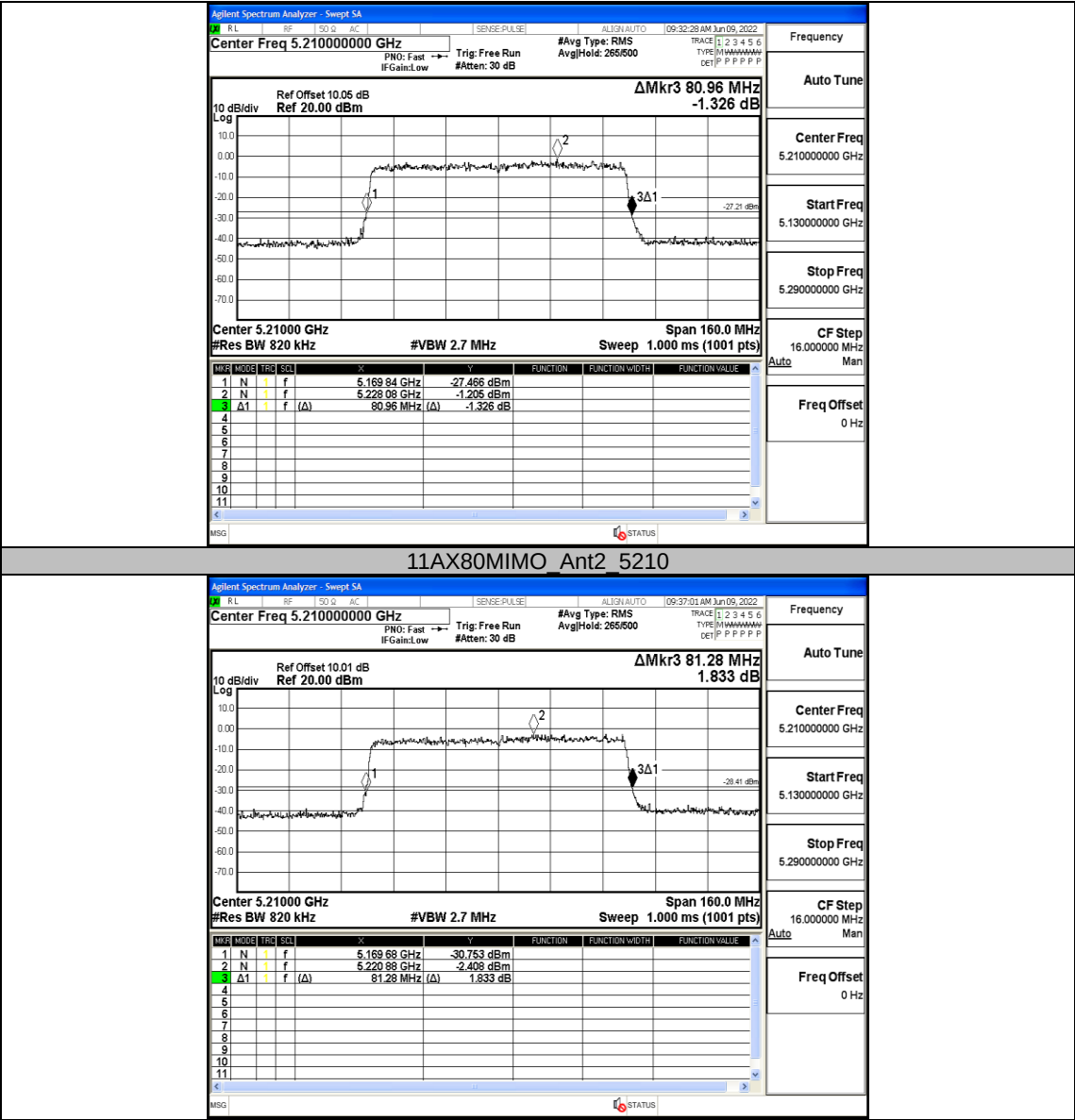










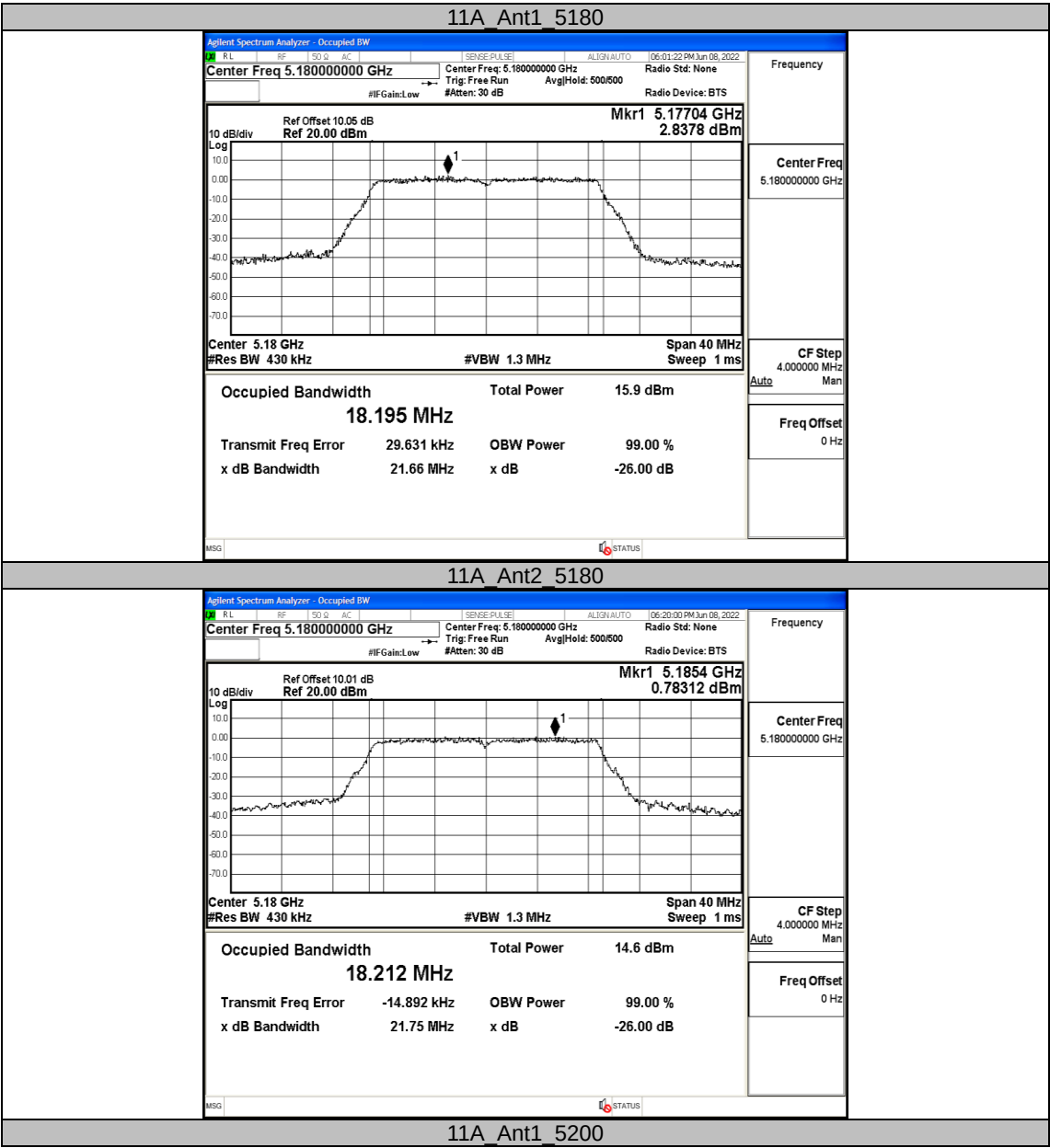


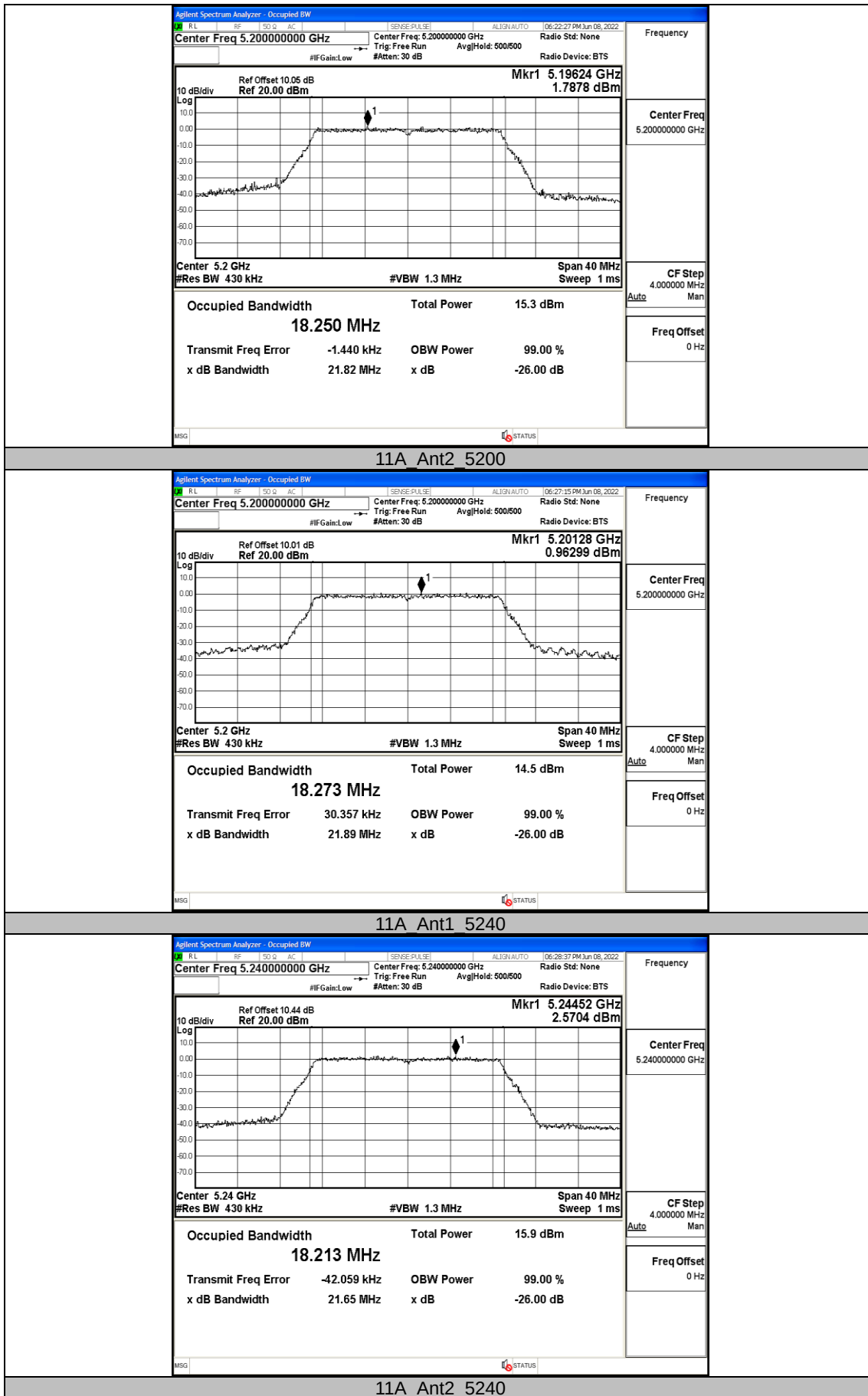
Appendix A2: Occupied channel bandwidth

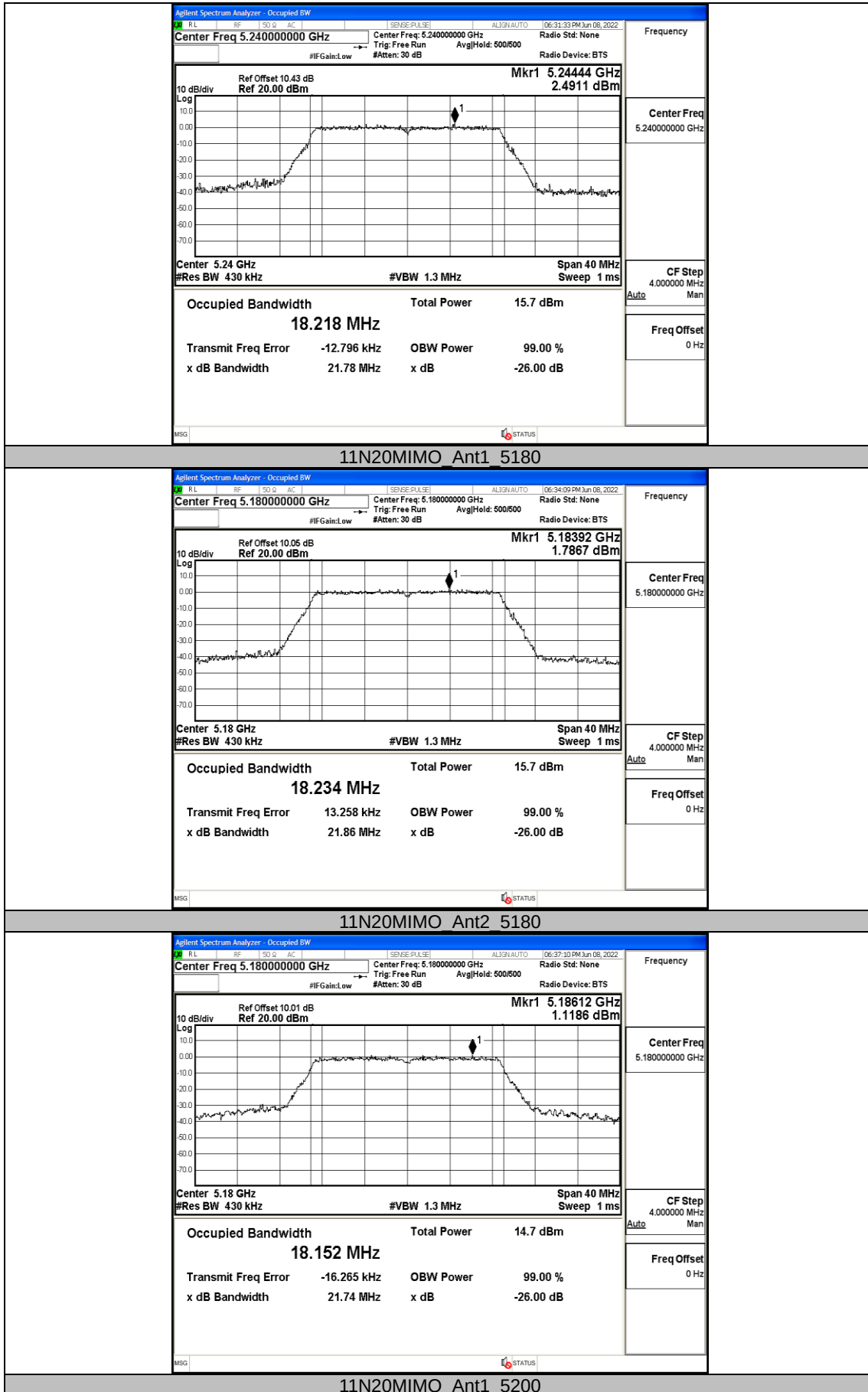
Test Result

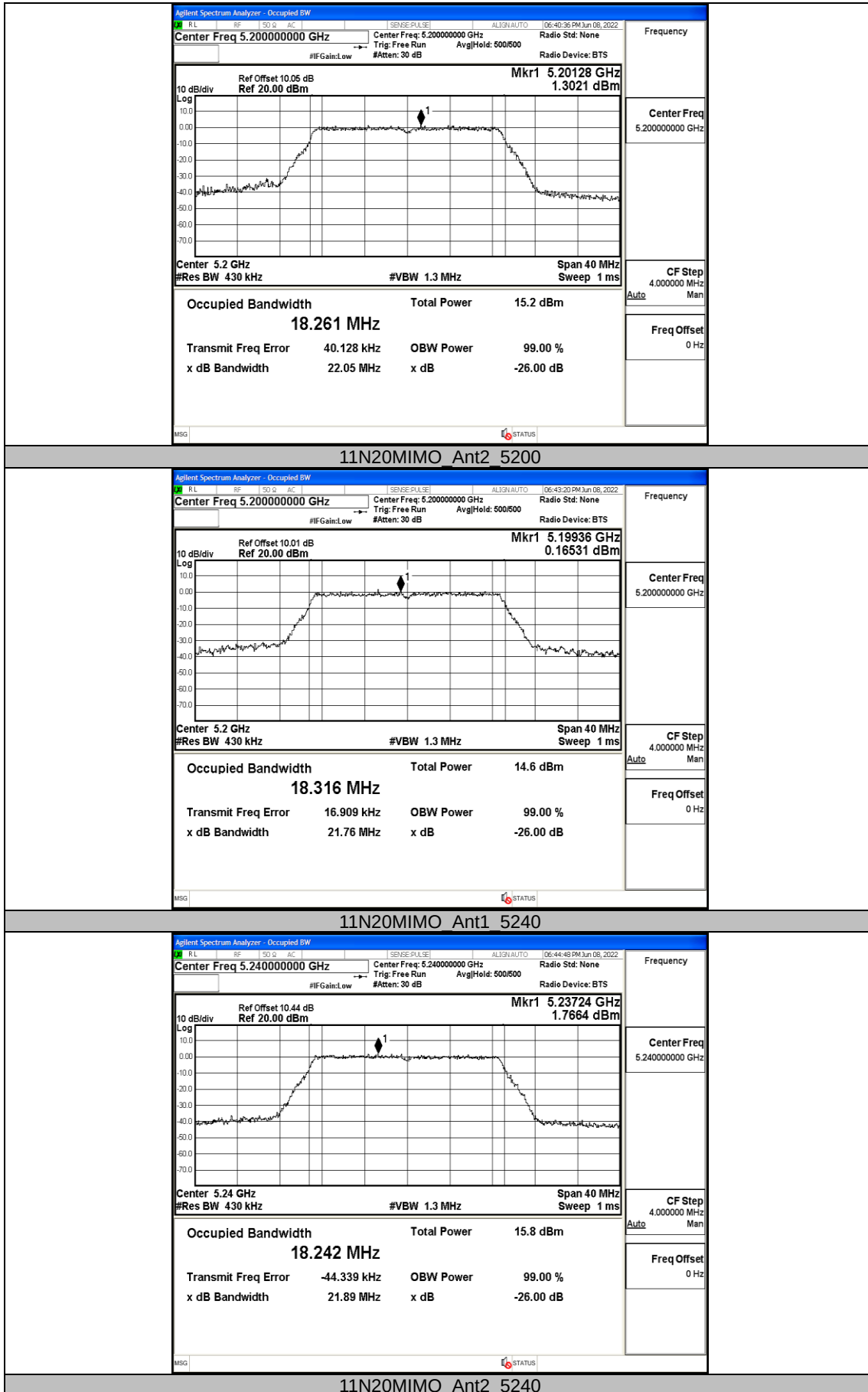
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	18.195	5170.932	5189.127	---	---
	Ant2	5180	18.212	5170.879	5189.091	---	---
	Ant1	5200	18.250	5190.874	5209.124	---	---
	Ant2	5200	18.273	5190.894	5209.167	---	---
	Ant1	5240	18.213	5230.851	5249.064	---	---
	Ant2	5240	18.218	5230.878	5249.096	---	---
11N20MIMO	Ant1	5180	18.234	5170.896	5189.130	---	---
	Ant2	5180	18.152	5170.908	5189.060	---	---
	Ant1	5200	18.261	5190.910	5209.171	---	---
	Ant2	5200	18.316	5190.859	5209.175	---	---
	Ant1	5240	18.242	5230.835	5249.077	---	---
	Ant2	5240	18.263	5230.838	5249.101	---	---
11N40MIMO	Ant1	5190	36.566	5171.811	5208.377	---	---
	Ant2	5190	36.666	5171.735	5208.401	---	---
	Ant1	5230	36.436	5211.868	5248.304	---	---
	Ant2	5230	36.564	5211.806	5248.370	---	---
11AC20MIMO	Ant1	5180	18.244	5170.851	5189.095	---	---
	Ant2	5180	18.354	5170.796	5189.150	---	---
	Ant1	5200	18.326	5190.808	5209.134	---	---
	Ant2	5200	18.341	5190.774	5209.115	---	---
	Ant1	5240	18.284	5230.777	5249.061	---	---
	Ant2	5240	18.296	5230.767	5249.063	---	---
11AC40MIMO	Ant1	5190	36.819	5171.601	5208.420	---	---
	Ant2	5190	36.853	5171.567	5208.420	---	---
	Ant1	5230	36.745	5211.593	5248.338	---	---
	Ant2	5230	36.740	5211.628	5248.368	---	---
11AC80MIMO	Ant1	5210	76.018	5172.240	5248.258	---	---
	Ant2	5210	76.123	5172.135	5248.258	---	---
11AX20MIMO	Ant1	5180	19.129	5170.441	5189.570	---	---
	Ant2	5180	19.141	5170.430	5189.571	---	---
	Ant1	5200	19.182	5190.389	5209.571	---	---
	Ant2	5200	19.191	5190.397	5209.588	---	---
	Ant1	5240	19.195	5230.360	5249.555	---	---
	Ant2	5240	19.170	5230.409	5249.579	---	---
11AX40MIMO	Ant1	5190	37.635	5171.228	5208.863	---	---
	Ant2	5190	37.626	5171.268	5208.894	---	---
	Ant1	5230	37.654	5211.229	5248.883	---	---
	Ant2	5230	37.567	5211.295	5248.862	---	---
11AX80MIMO	Ant1	5210	77.051	5171.642	5248.693	---	---
	Ant2	5210	77.148	5171.618	5248.766	---	---

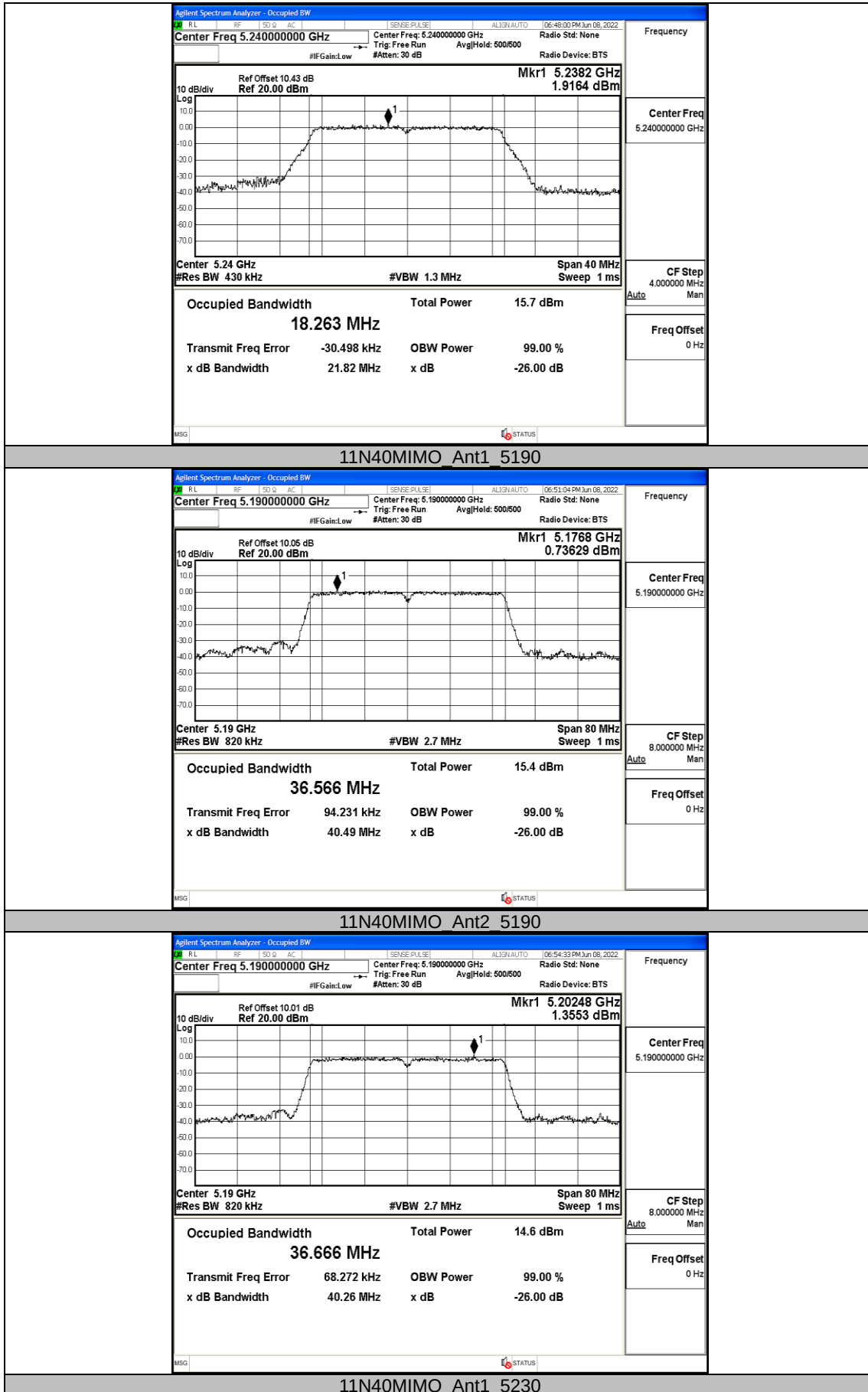
Test Graphs

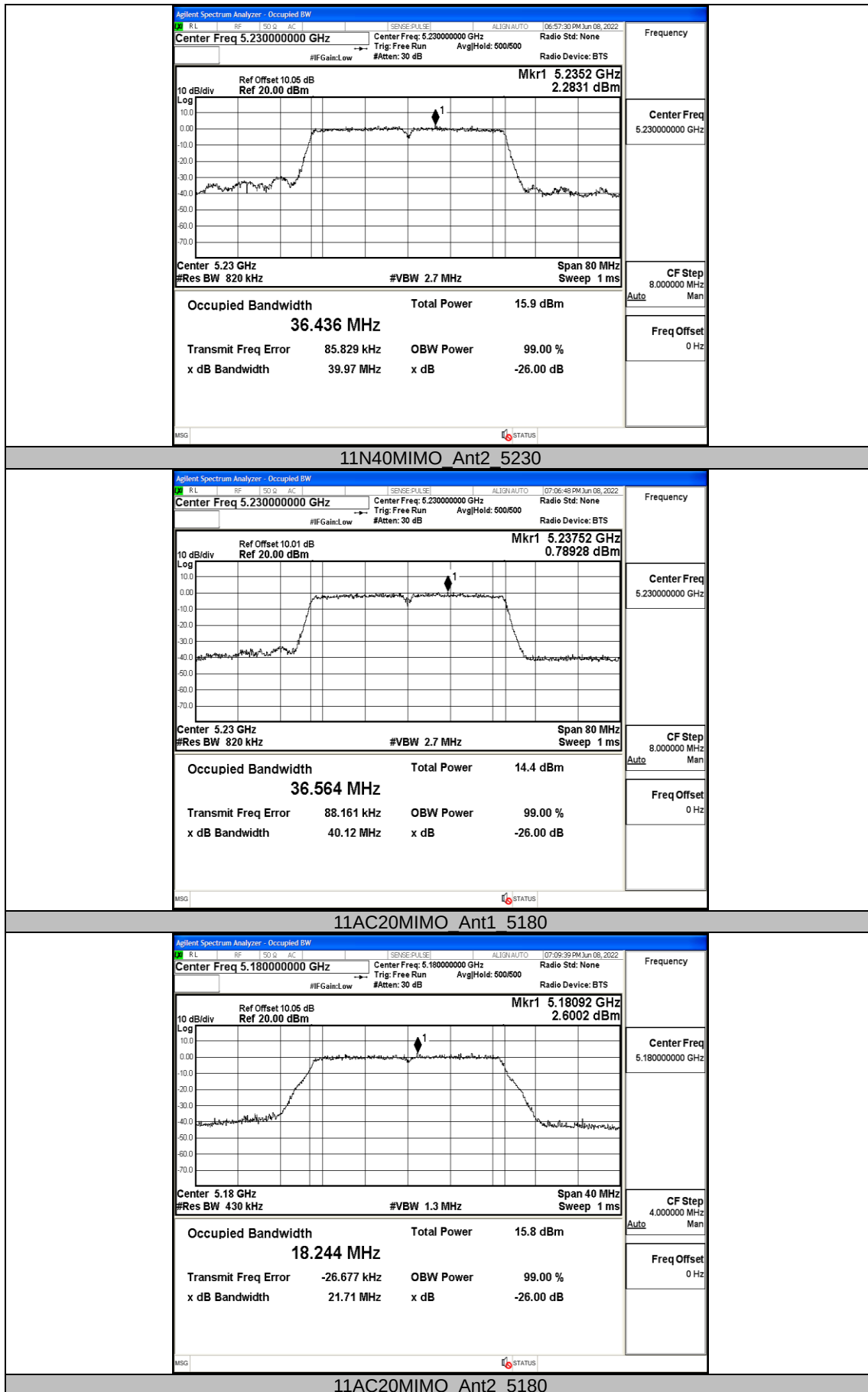


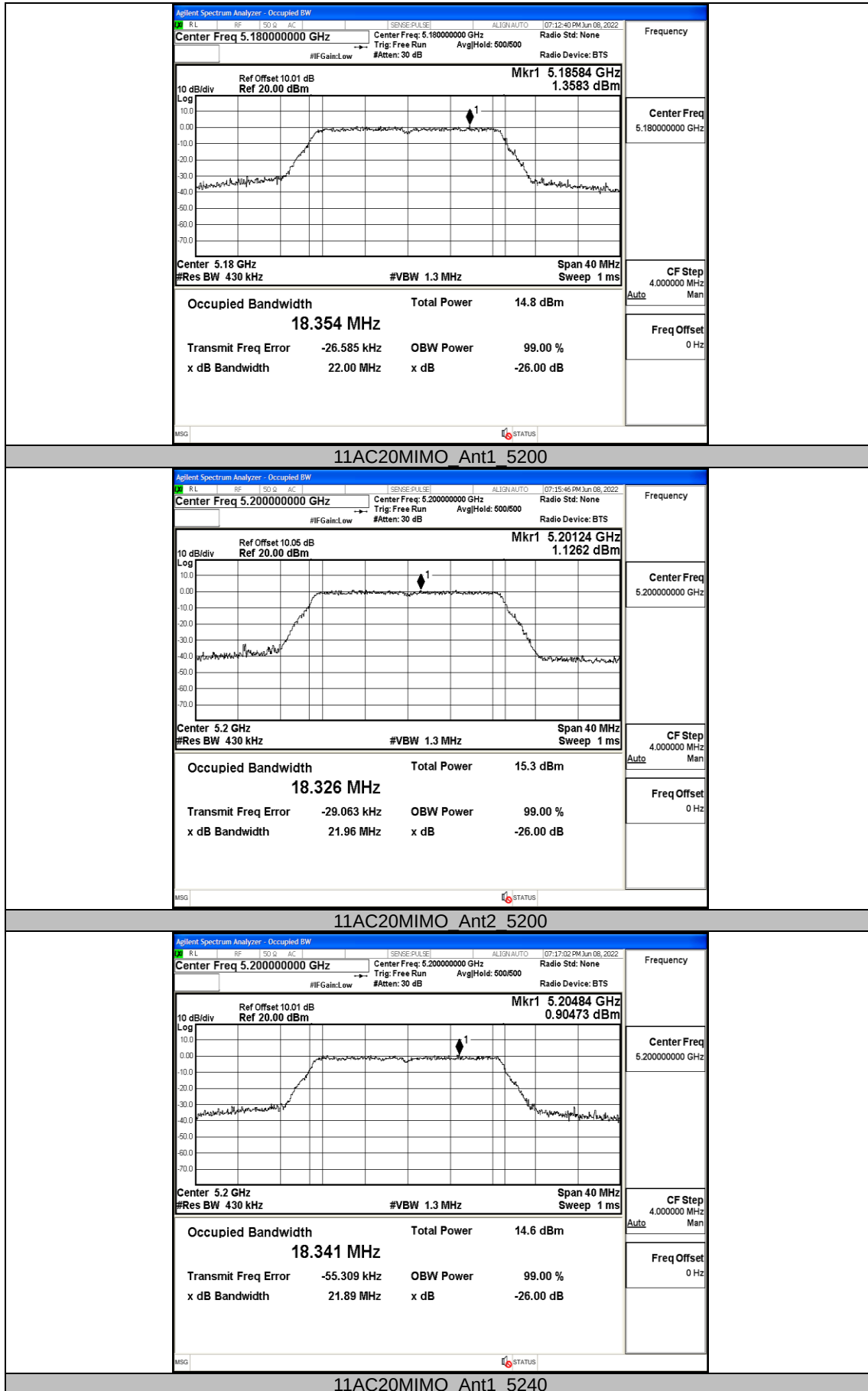




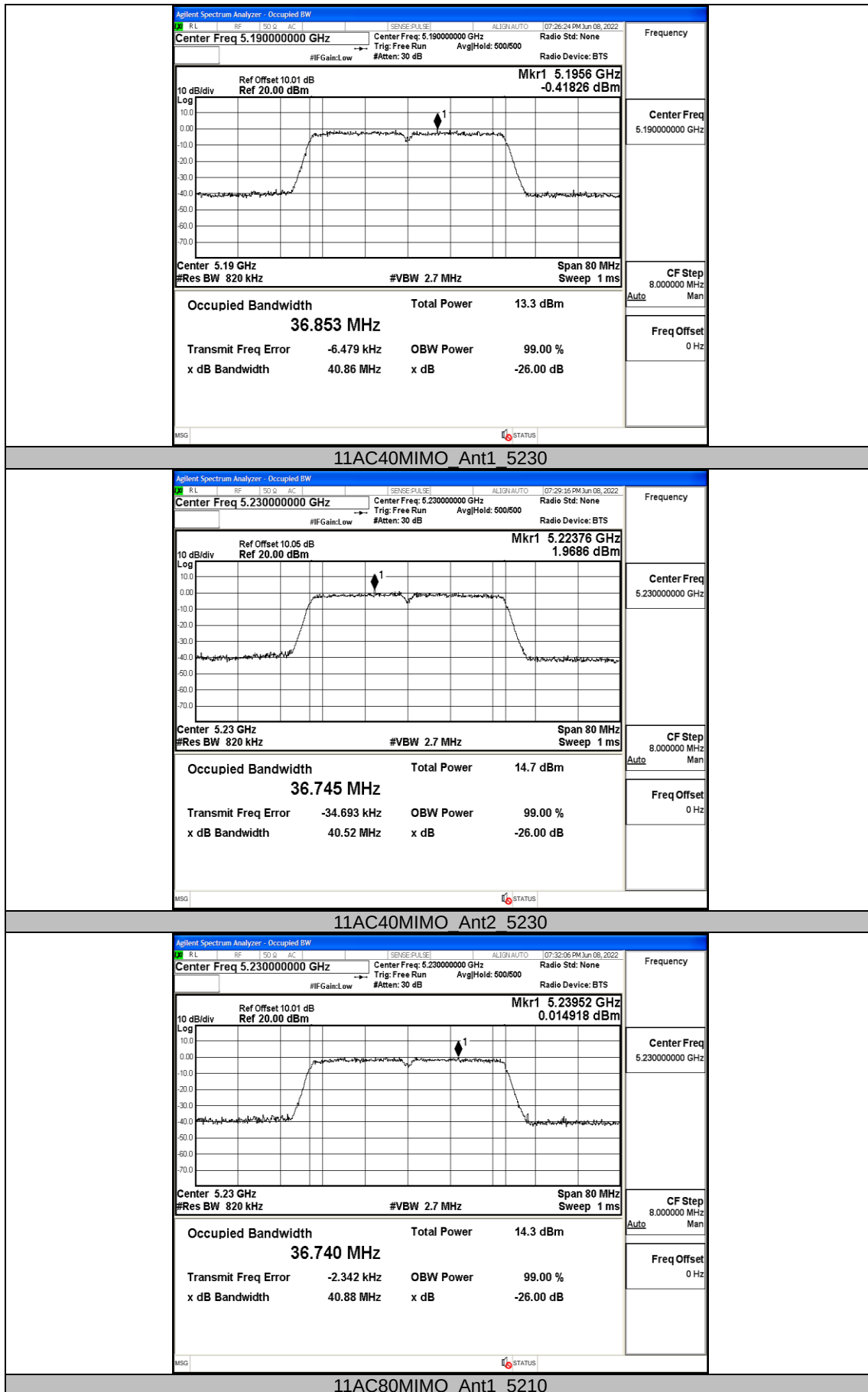


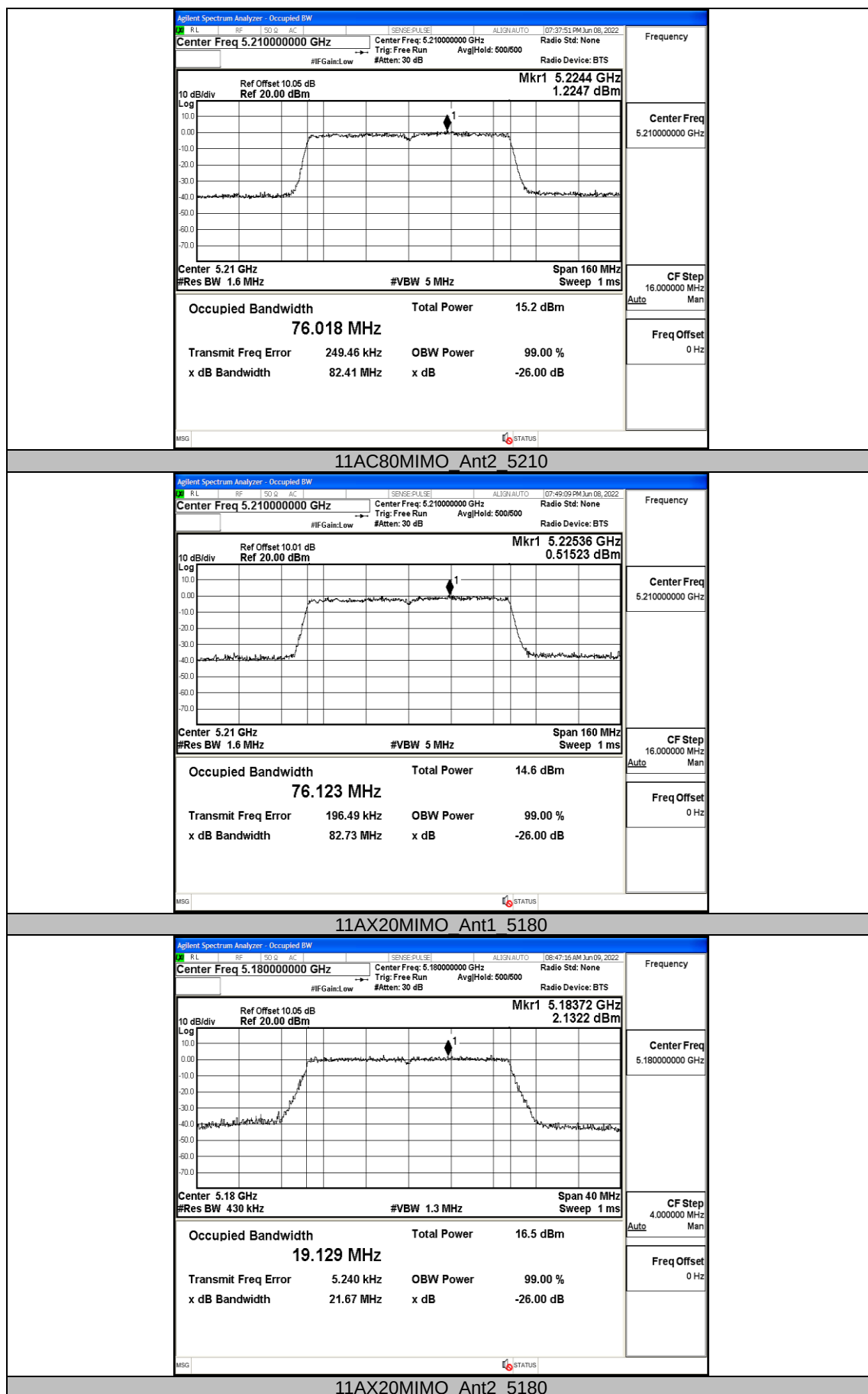


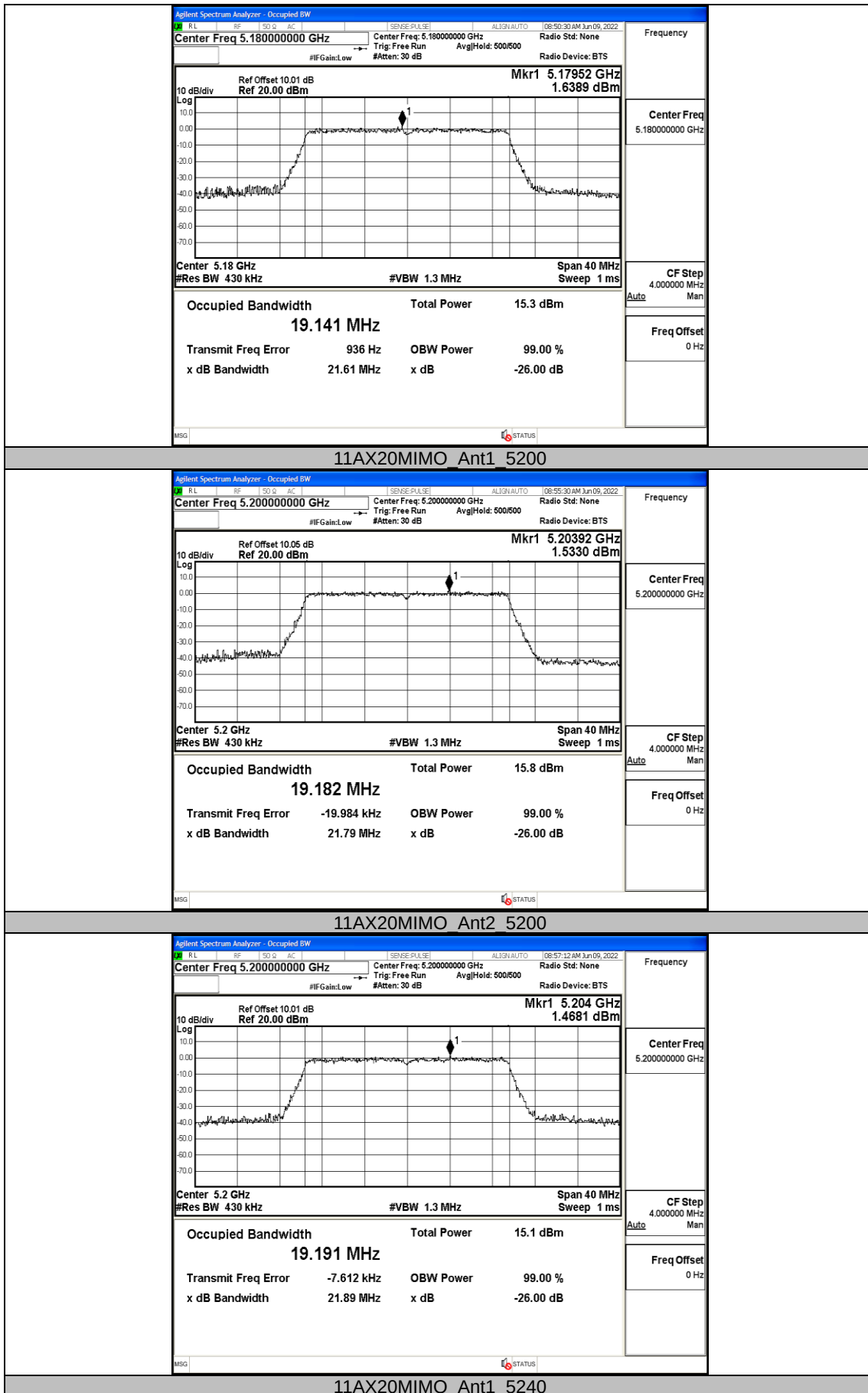


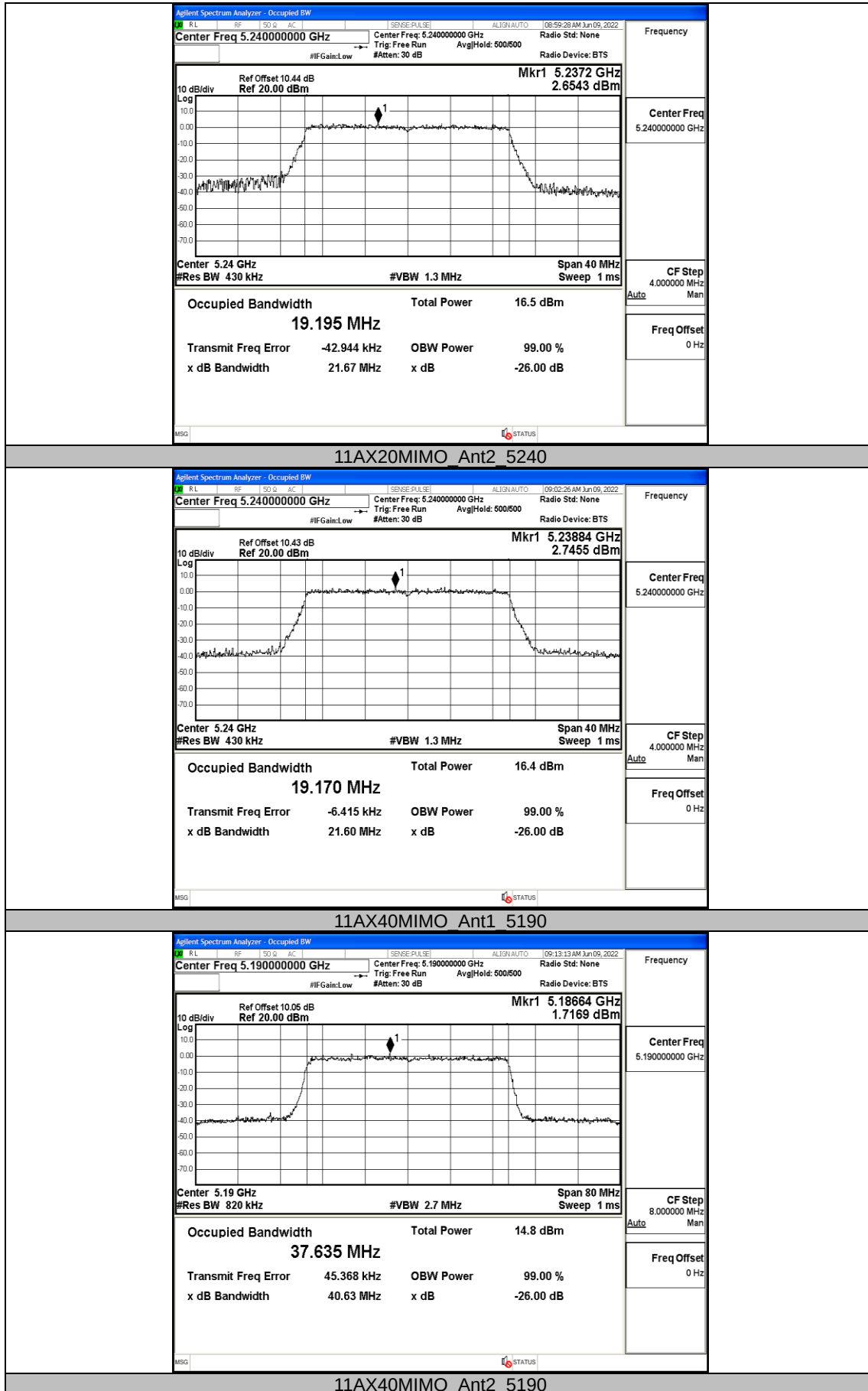


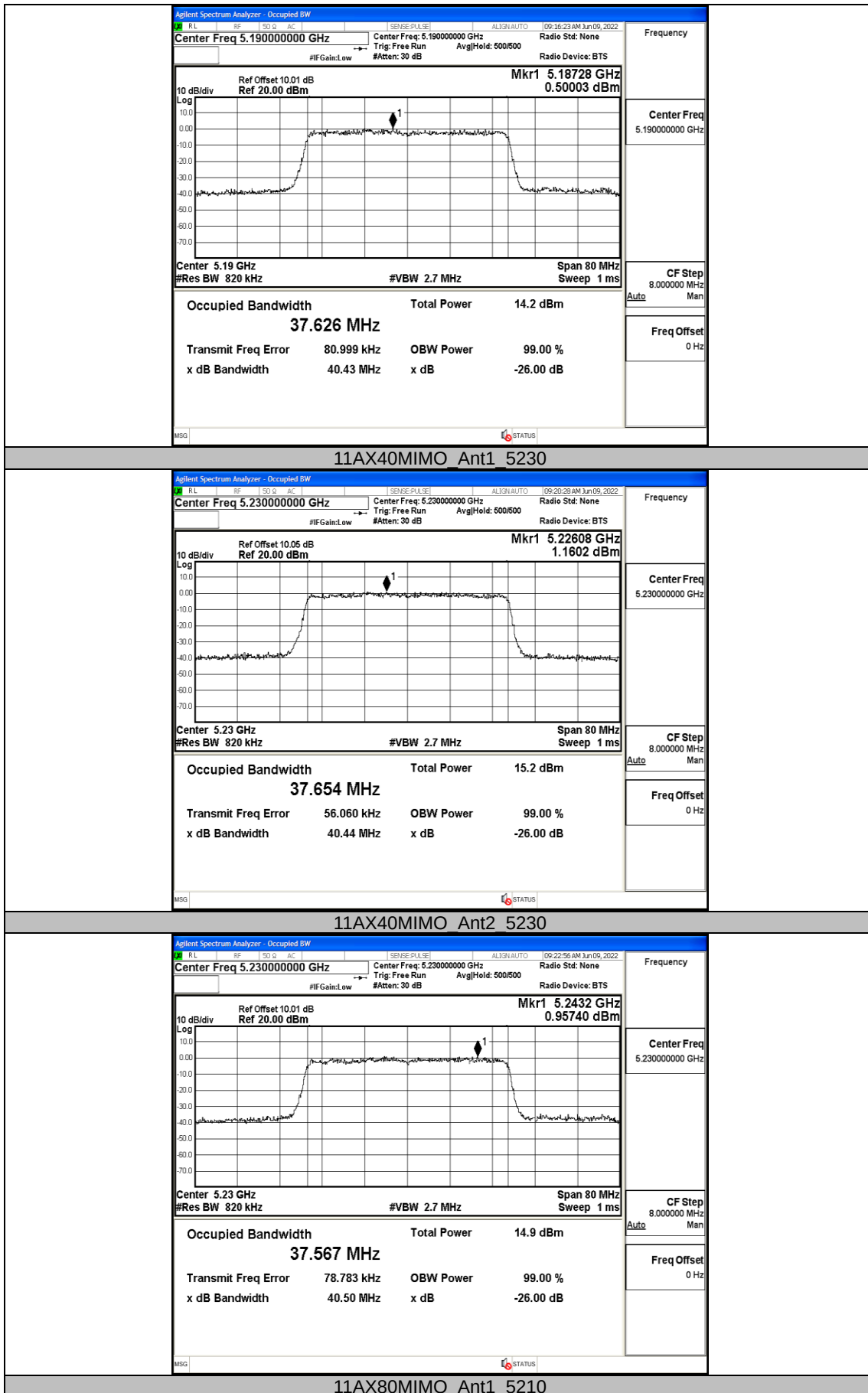
Agilent Spectrum Analyzer - Occupied BW Center Freq 5.240000000 GHz Ref Offset 10.44 dB Ref 20.00 dBm 10 dB/div Log Center 5.24 GHz #Res BW 430 kHz #VBW 1.3 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 18.284 MHz Total Power 15.9 dBm Transmit Freq Error -80.587 kHz OBW Power 99.00 % x dB Bandwidth 21.87 MHz x dB -26.00 dB	Frequency Center Freq 5.240000000 GHz CF Step 4.000000 MHz Man Freq Offset 0 Hz
11AC20MIMO_Ant2_5240	
Agilent Spectrum Analyzer - Occupied BW Center Freq 5.240000000 GHz Ref Offset 10.43 dB Ref 20.00 dBm 10 dB/div Log Center 5.24 GHz #Res BW 430 kHz #VBW 1.3 MHz Span 40 MHz Sweep 1 ms Occupied Bandwidth 18.296 MHz Total Power 15.8 dBm Transmit Freq Error -85.008 kHz OBW Power 99.00 % x dB Bandwidth 21.98 MHz x dB -26.00 dB	Frequency Center Freq 5.240000000 GHz CF Step 4.000000 MHz Man Freq Offset 0 Hz
11AC40MIMO_Ant1_5190	
Agilent Spectrum Analyzer - Occupied BW Center Freq 5.190000000 GHz Ref Offset 10.05 dB Ref 20.00 dBm 10 dB/div Log Center 5.19 GHz #Res BW 820 kHz #VBW 2.7 MHz Span 80 MHz Sweep 1 ms Occupied Bandwidth 36.819 MHz Total Power 14.6 dBm Transmit Freq Error 10.493 kHz OBW Power 99.00 % x dB Bandwidth 40.76 MHz x dB -26.00 dB	Frequency Center Freq 5.190000000 GHz CF Step 8.000000 MHz Man Freq Offset 0 Hz
11AC40MIMO_Ant2_5190	

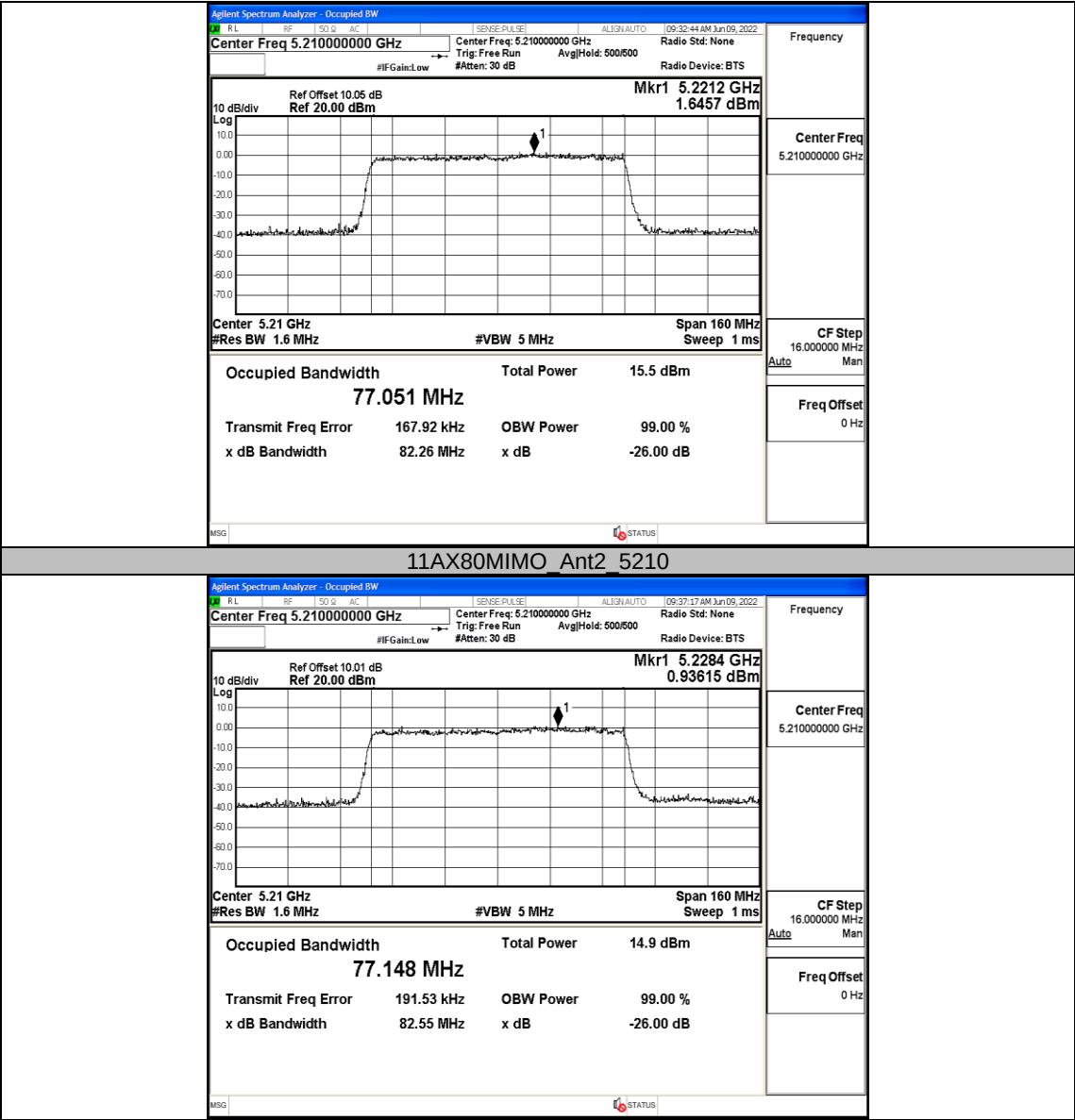












Appendix B: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	8.83	≤23.98	PASS
	Ant2	5180	7.43	≤23.98	PASS
	Ant1	5200	8.08	≤23.98	PASS
	Ant2	5200	7.32	≤23.98	PASS
	Ant1	5240	8.67	≤23.98	PASS
	Ant2	5240	8.62	≤23.98	PASS
11N20MIMO	Ant1	5180	8.54	≤23.98	PASS
	Ant2	5180	7.36	≤23.98	PASS
	total	5180	11.00	≤22.74	PASS
	Ant1	5200	8.04	≤23.98	PASS
	Ant2	5200	7.41	≤23.98	PASS
	total	5200	10.75	≤22.74	PASS
	Ant1	5240	8.70	≤23.98	PASS
	Ant2	5240	8.57	≤23.98	PASS
	total	5240	11.65	≤22.74	PASS
11N40MIMO	Ant1	5190	6.90	≤23.98	PASS
	Ant2	5190	5.71	≤23.98	PASS
	total	5190	9.36	≤22.74	PASS
	Ant1	5230	7.11	≤23.98	PASS
	Ant2	5230	6.72	≤23.98	PASS
	total	5230	9.93	≤22.74	PASS
11AC20MIMO	Ant1	5180	8.67	≤23.98	PASS
	Ant2	5180	7.46	≤23.98	PASS
	total	5180	11.12	≤22.74	PASS
	Ant1	5200	8.03	≤23.98	PASS
	Ant2	5200	7.32	≤23.98	PASS
	total	5200	10.70	≤22.74	PASS
	Ant1	5240	8.62	≤23.98	PASS
	Ant2	5240	8.49	≤23.98	PASS
	total	5240	11.57	≤22.74	PASS
11AC40MIMO	Ant1	5190	6.94	≤23.98	PASS
	Ant2	5190	5.67	≤23.98	PASS
	total	5190	9.36	≤22.74	PASS
	Ant1	5230	7.09	≤23.98	PASS
	Ant2	5230	6.72	≤23.98	PASS
	total	5230	9.92	≤22.74	PASS
11AC80MIMO	Ant1	5210	7.32	≤23.98	PASS
	Ant2	5210	6.37	≤23.98	PASS
	total	5210	9.88	≤22.74	PASS
11AX20MIMO	Ant1	5180	8.61	≤23.98	PASS
	Ant2	5180	7.44	≤23.98	PASS
	total	5180	11.07	≤22.74	PASS
	Ant1	5200	8.12	≤23.98	PASS
	Ant2	5200	7.39	≤23.98	PASS
	total	5200	10.78	≤22.74	PASS
	Ant1	5240	8.77	≤23.98	PASS
	Ant2	5240	8.54	≤23.98	PASS
	total	5240	11.67	≤22.74	PASS
11AX40MIMO	Ant1	5190	6.85	≤23.98	PASS
	Ant2	5190	6.31	≤23.98	PASS
	total	5190	9.60	≤22.74	PASS
	Ant1	5230	7.09	≤23.98	PASS
	Ant2	5230	6.83	≤23.98	PASS
11AX80MIMO	total	5230	9.97	≤22.74	PASS
	Ant1	5210	7.04	≤23.98	PASS
	Ant2	5210	6.44	≤23.98	PASS
	total	5210	9.76	≤22.74	PASS

Note: The Duty Cycle Factor is compensated in the test result.

Appendix C: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	5.04	≤11.00	PASS
	Ant2	5180	4.14	≤11.00	PASS
	Ant1	5200	5.66	≤11.00	PASS
	Ant2	5200	4.25	≤11.00	PASS
	Ant1	5240	6.28	≤11.00	PASS
	Ant2	5240	5.32	≤11.00	PASS
11N20MIMO	Ant1	5180	5.36	≤11.00	PASS
	Ant2	5180	5.04	≤11.00	PASS
	total	5180	8.21	≤9.76	FAIL
	Ant1	5200	4.98	≤11.00	PASS
	Ant2	5200	4.65	≤11.00	PASS
	total	5200	7.83	≤9.76	FAIL
	Ant1	5240	5.24	≤11.00	PASS
	Ant2	5240	5.6	≤11.00	PASS
	total	5240	8.43	≤9.76	FAIL
11N40MIMO	Ant1	5190	2.39	≤11.00	PASS
	Ant2	5190	0.43	≤11.00	PASS
	total	5190	4.53	≤9.76	PASS
	Ant1	5230	3.03	≤11.00	PASS
	Ant2	5230	1.29	≤11.00	PASS
	total	5230	5.26	≤9.76	PASS
11AC20MIMO	Ant1	5180	4.98	≤11.00	PASS
	Ant2	5180	3.09	≤11.00	PASS
	total	5180	7.15	≤9.76	FAIL
	Ant1	5200	4.36	≤11.00	PASS
	Ant2	5200	2.87	≤11.00	PASS
	total	5200	6.69	≤9.76	FAIL
	Ant1	5240	4.72	≤11.00	PASS
	Ant2	5240	4.44	≤11.00	PASS
	total	5240	7.59	≤9.76	FAIL
11AC40MIMO	Ant1	5190	2.94	≤11.00	PASS
	Ant2	5190	0.9	≤11.00	PASS
	total	5190	5.05	≤9.76	PASS
	Ant1	5230	1.71	≤11.00	PASS
	Ant2	5230	1.45	≤11.00	PASS
	total	5230	4.59	≤9.76	PASS
11AC80MIMO	Ant1	5210	-0.04	≤11.00	PASS
	Ant2	5210	0.56	≤11.00	PASS
	total	5210	3.28	≤9.76	PASS
11AX20MIMO	Ant1	5180	6.46	≤11.00	PASS
	Ant2	5180	5.27	≤11.00	PASS
	total	5180	8.92	≤9.76	FAIL
	Ant1	5200	5.44	≤11.00	PASS
	Ant2	5200	5.01	≤11.00	PASS
	total	5200	8.24	≤9.76	FAIL
	Ant1	5240	7.08	≤11.00	PASS
	Ant2	5240	6.66	≤11.00	PASS
	total	5240	9.89	≤9.76	FAIL
11AX40MIMO	Ant1	5190	2.5	≤11.00	PASS
	Ant2	5190	2.13	≤11.00	PASS
	total	5190	5.33	≤9.76	PASS
	Ant1	5230	2.61	≤11.00	PASS
	Ant2	5230	2.23	≤11.00	PASS
	total	5230	5.43	≤9.76	PASS
11AX80MIMO	Ant1	5210	-1.04	≤11.00	PASS
	Ant2	5210	0.58	≤11.00	PASS
	total	5210	2.86	≤9.76	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.