

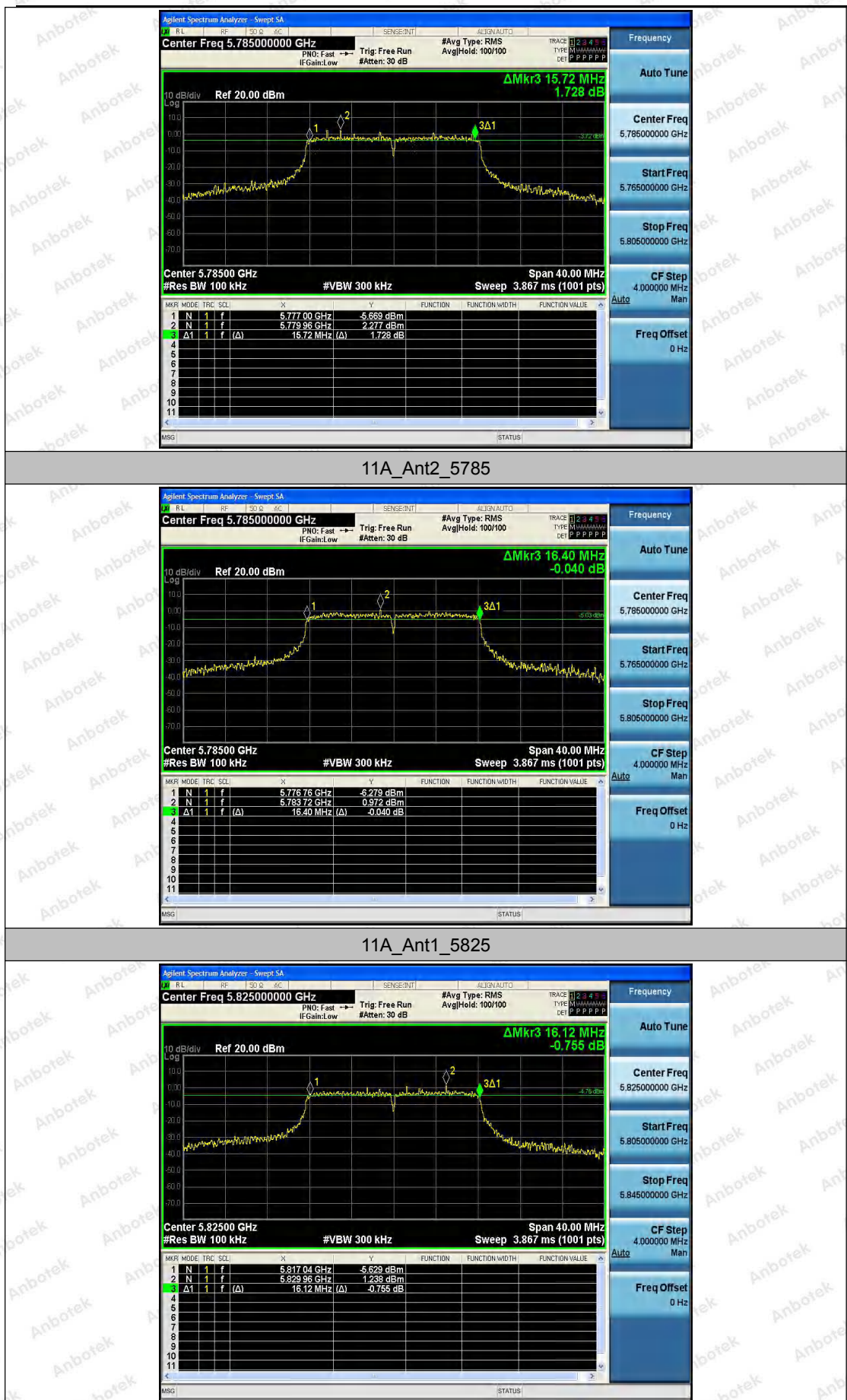
Appendix A3: Min emission bandwidth

Test Result

Test Mode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.120	5736.760	5752.880	0.5	PASS
	Ant2	5745	15.920	5736.960	5752.880	0.5	PASS
	Ant1	5785	15.720	5777.000	5792.720	0.5	PASS
	Ant2	5785	16.400	5776.760	5793.160	0.5	PASS
	Ant1	5825	16.120	5817.040	5833.160	0.5	PASS
	Ant2	5825	16.360	5816.800	5833.160	0.5	PASS
11N20SI SO	Ant1	5745	16.160	5736.760	5752.920	0.5	PASS
	Ant2	5745	16.440	5736.680	5753.120	0.5	PASS
	Ant1	5785	16.320	5776.800	5793.120	0.5	PASS
	Ant2	5785	16.360	5776.800	5793.160	0.5	PASS
	Ant1	5825	16.720	5816.760	5833.480	0.5	PASS
	Ant2	5825	16.560	5816.920	5833.480	0.5	PASS
11N40SI SO	Ant1	5755	35.600	5737.320	5772.920	0.5	PASS
	Ant2	5755	35.520	5737.320	5772.840	0.5	PASS
	Ant1	5795	35.280	5777.320	5812.600	0.5	PASS
	Ant2	5795	35.280	5777.320	5812.600	0.5	PASS
11AC20S ISO	Ant1	5745	16.240	5736.760	5753.000	0.5	PASS
	Ant2	5745	16.000	5736.760	5752.760	0.5	PASS
	Ant1	5785	16.360	5776.800	5793.160	0.5	PASS
	Ant2	5785	15.800	5777.000	5792.800	0.5	PASS
	Ant1	5825	15.560	5817.320	5832.880	0.5	PASS
	Ant2	5825	15.800	5817.080	5832.880	0.5	PASS
11AC40S ISO	Ant1	5755	35.520	5737.320	5772.840	0.5	PASS
	Ant2	5755	35.280	5737.320	5772.600	0.5	PASS
	Ant1	5795	35.440	5777.160	5812.600	0.5	PASS
	Ant2	5795	34.240	5777.320	5811.560	0.5	PASS
11AC80S ISO	Ant1	5775	71.680	5738.520	5810.200	0.5	PASS
	Ant2	5775	74.080	5738.520	5812.600	0.5	PASS

Test Graphs





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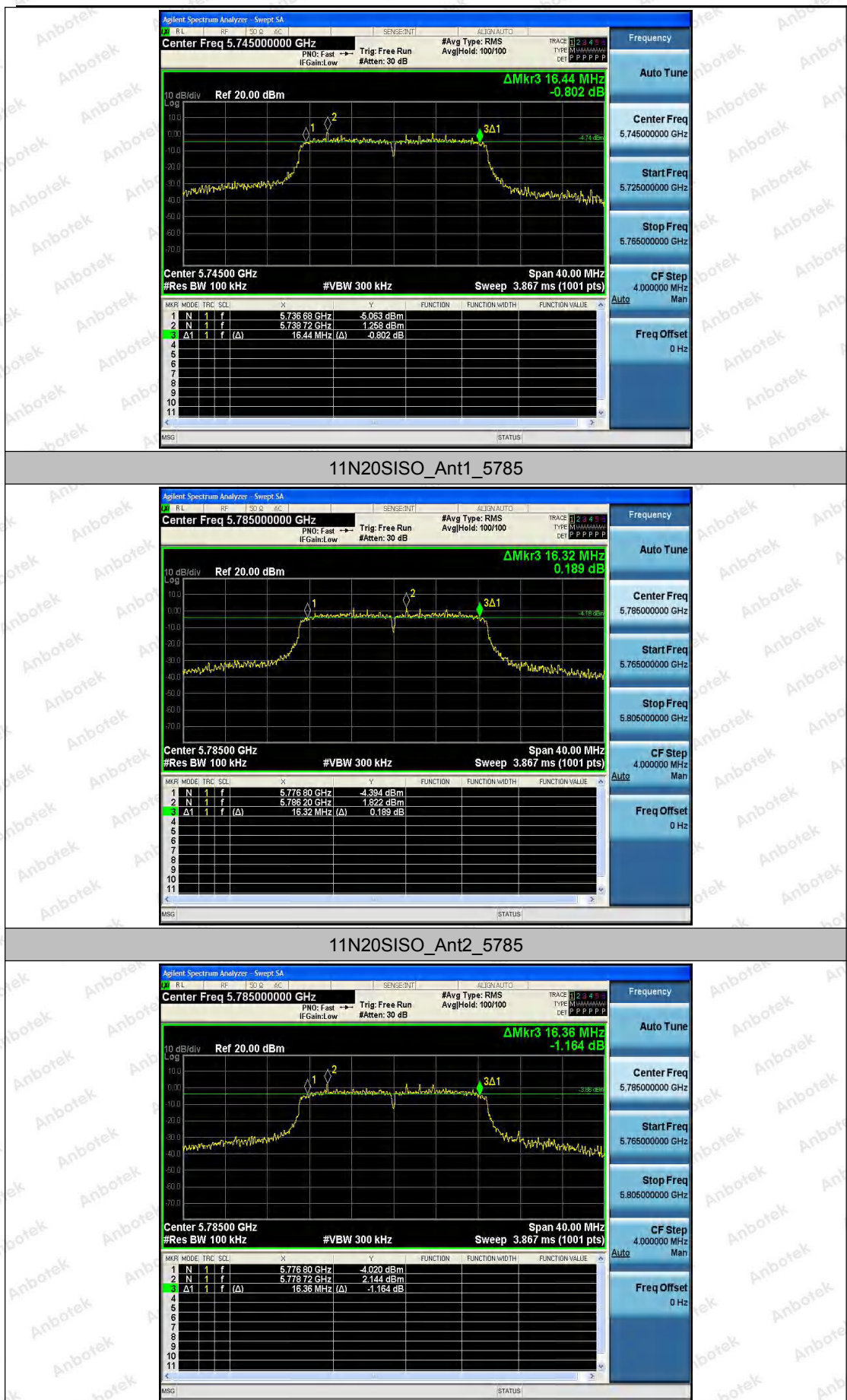
11A_Ant2_5825



11N20SISO_Ant1_5745



11N20SISO_Ant2_5745



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11N20SISO_Ant1_5825



11N20SISO_Ant2_5825



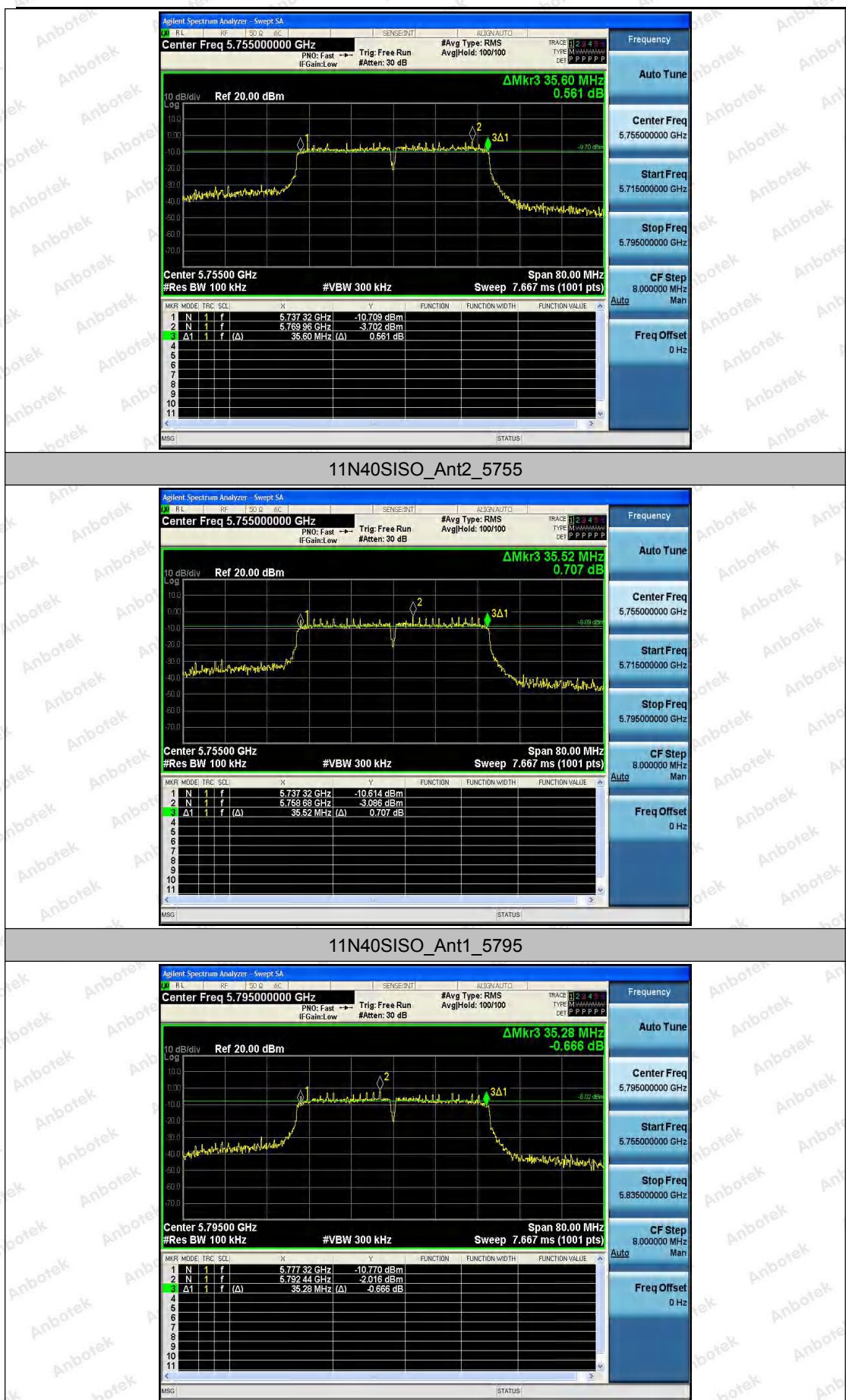
11N40SISO_Ant1_5755

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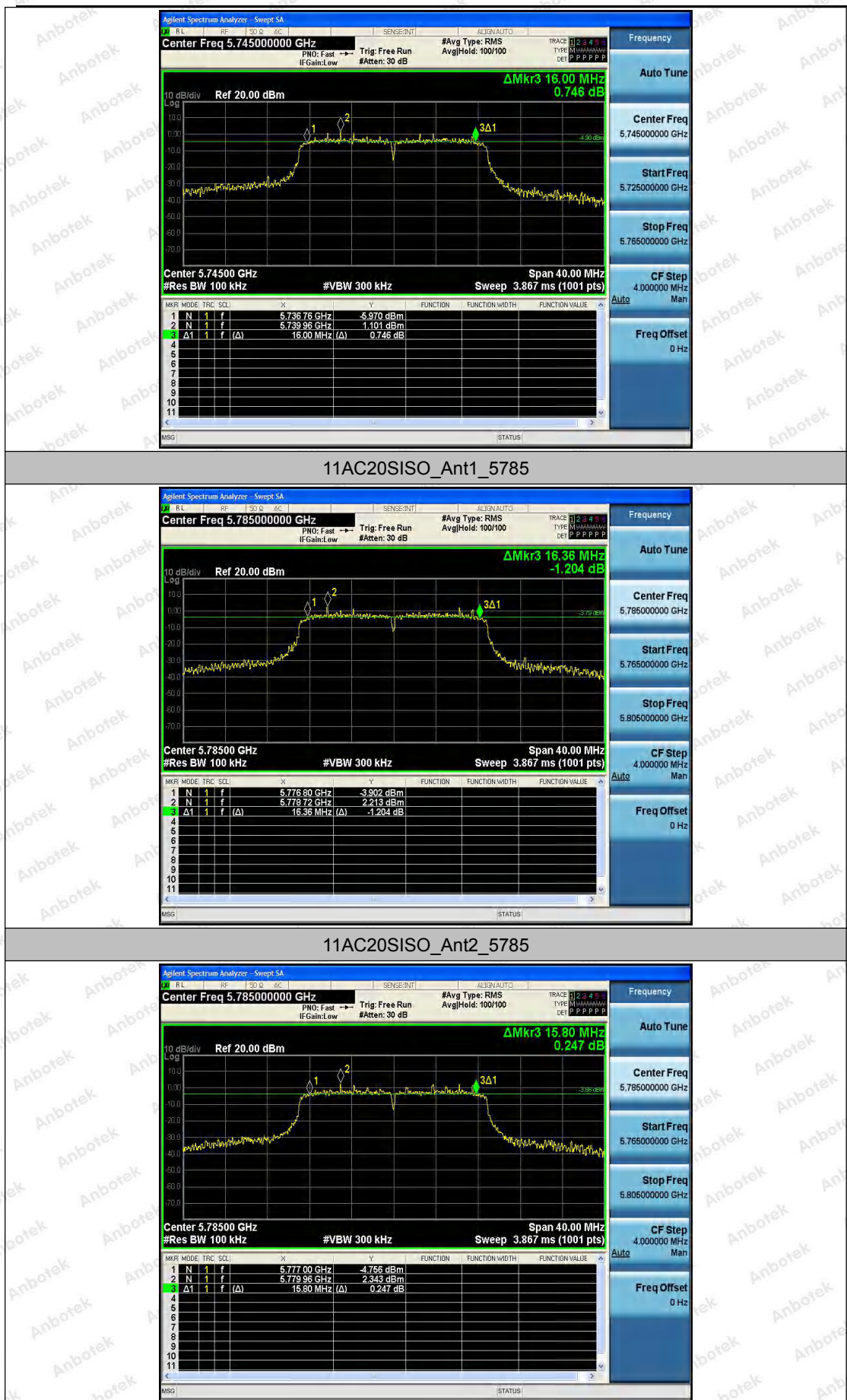
11N40SISO_Ant2_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant2_5745



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11AC20SISO_Ant1_5825



11AC20SISO_Ant2_5825



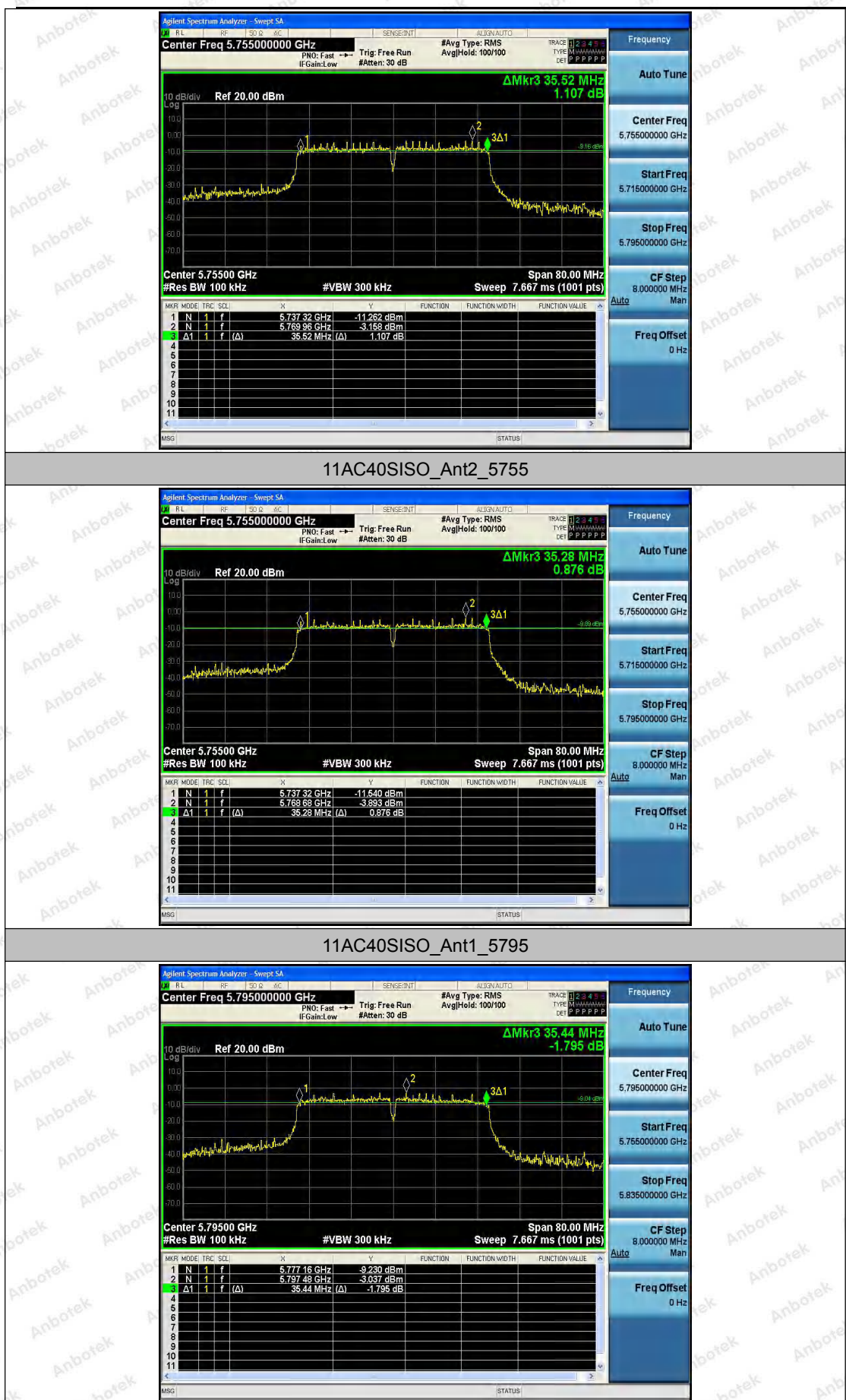
11AC40SISO_Ant1_5755

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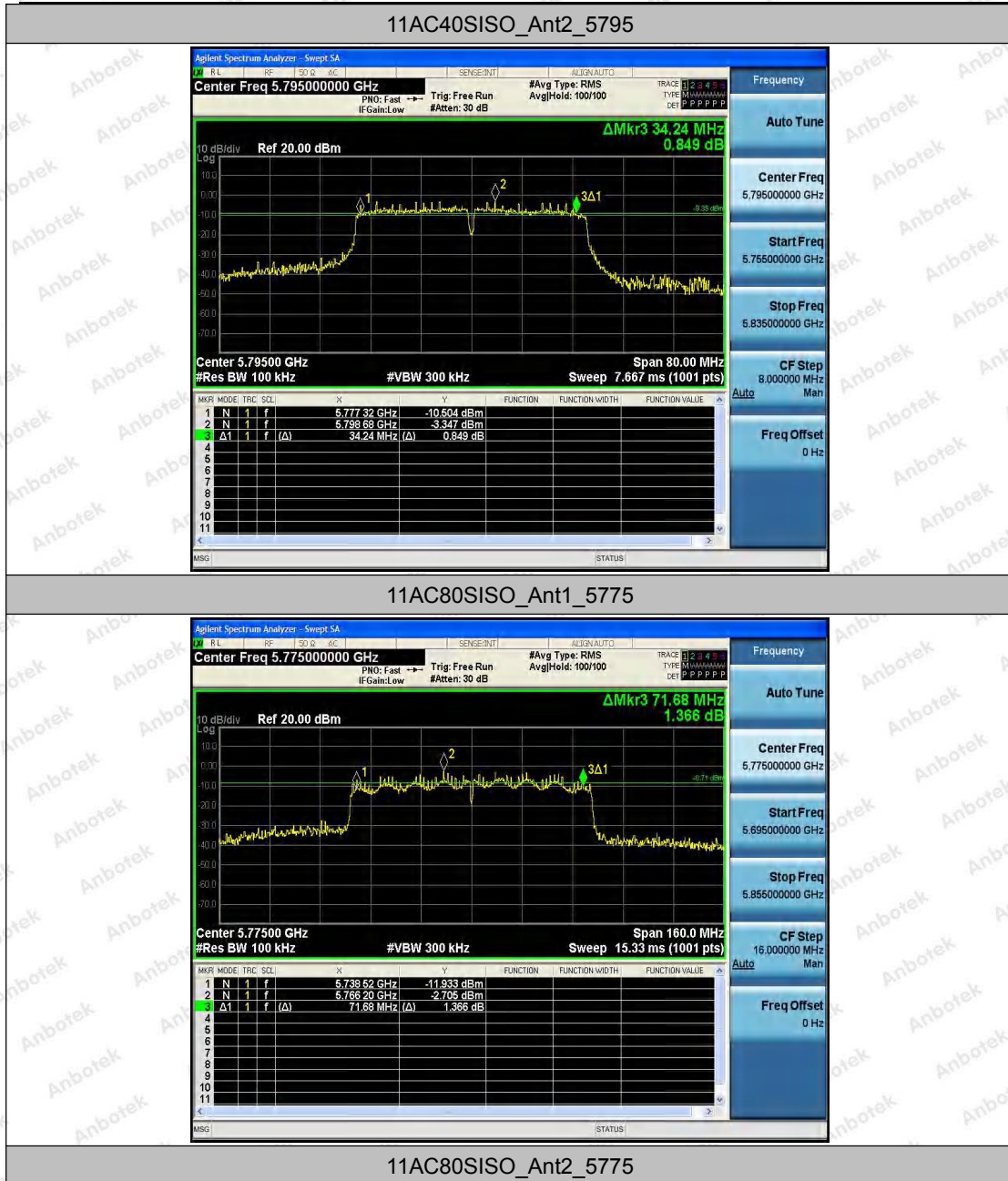


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Appendix B: Maximum conducted output power

Test Result(5.2G WIFI):

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	7.11	≤23.98	PASS
	Ant2	5180	7.17	≤23.98	PASS
	Ant1	5200	7.53	≤23.98	PASS
	Ant2	5200	7.07	≤23.98	PASS
	Ant1	5240	6.77	≤23.98	PASS
	Ant2	5240	6.29	≤23.98	PASS
11N20SISO	Ant1	5180	7.66	≤23.98	PASS
	Ant2	5180	7.79	≤23.98	PASS
	Ant1	5200	7.68	≤23.98	PASS
	Ant2	5200	7.71	≤23.98	PASS
	Ant1	5240	6.69	≤23.98	PASS
	Ant2	5240	7.65	≤23.98	PASS
11N40SISO	Ant1	5190	7.12	≤23.98	PASS
	Ant2	5190	6.85	≤23.98	PASS
	Ant1	5230	6.80	≤23.98	PASS
	Ant2	5230	6.26	≤23.98	PASS
11AC20SISO	Ant1	5180	7.82	≤23.98	PASS
	Ant2	5180	7.80	≤23.98	PASS
	Ant1	5200	7.82	≤23.98	PASS
	Ant2	5200	7.62	≤23.98	PASS
	Ant1	5240	6.77	≤23.98	PASS
	Ant2	5240	7.55	≤23.98	PASS
11AC40SISO	Ant1	5190	7.26	≤23.98	PASS
	Ant2	5190	7.63	≤23.98	PASS
	Ant1	5230	6.59	≤23.98	PASS
	Ant2	5230	6.45	≤23.98	PASS
11AC80SISO	Ant1	5210	7.07	≤23.98	PASS
	Ant2	5210	6.92	≤23.98	PASS

Test Result(5.8G WIFI):

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5745	7.80	≤30	PASS
	Ant2	5745	7.13	≤30	PASS
	Ant1	5785	7.32	≤30	PASS
	Ant2	5785	7.19	≤30	PASS
	Ant1	5825	7.83	≤30	PASS

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	Ant2	5825	7.69	≤30	PASS
11N20SISO	Ant1	5745	7.68	≤30	PASS
	Ant2	5745	7.70	≤30	PASS
	Ant1	5785	6.87	≤30	PASS
	Ant2	5785	7.85	≤30	PASS
	Ant1	5825	7.58	≤30	PASS
	Ant2	5825	7.81	≤30	PASS
11N40SISO	Ant1	5755	6.75	≤30	PASS
	Ant2	5755	7.03	≤30	PASS
	Ant1	5795	7.21	≤30	PASS
	Ant2	5795	6.92	≤30	PASS
11AC20SISO	Ant1	5745	7.60	≤30	PASS
	Ant2	5745	7.63	≤30	PASS
	Ant1	5785	7.31	≤30	PASS
	Ant2	5785	7.14	≤30	PASS
	Ant1	5825	7.49	≤30	PASS
	Ant2	5825	7.70	≤30	PASS
11AC40SISO	Ant1	5755	7.78	≤30	PASS
	Ant2	5755	7.59	≤30	PASS
	Ant1	5795	6.96	≤30	PASS
	Ant2	5795	6.54	≤30	PASS
11AC80SISO	Ant1	5775	7.37	≤30	PASS
	Ant2	5775	7.19	≤30	PASS

Test Result(MIMO 5.2G WIFI):

Test Mode	Channel	Result[dBm]	Limit[dBm]	Verdict
11N20SISO	5180	10.74	≤18.97	PASS
	5200	10.71	≤18.97	PASS
	5240	10.21	≤18.97	PASS
11N40SISO	5190	10.00	≤18.97	PASS
	5230	9.55	≤18.97	PASS
11AC20SISO	5180	10.82	≤18.97	PASS
	5200	10.73	≤18.97	PASS
	5240	10.19	≤18.97	PASS
11AC40SISO	5190	10.46	≤18.97	PASS
	5230	9.53	≤18.97	PASS
11AC80SISO	5210	10.01	≤18.97	PASS

Test Result(MIMO 5.8G WIFI):

Test Mode	Channel	Result[dBm]	Limit[dBm]	Verdict
11N20SISO	5745	10.70	≤23.23	PASS
	5785	10.40	≤23.23	PASS
	5825	10.71	≤23.23	PASS
11N40SISO	5755	9.90	≤23.23	PASS
	5795	10.08	≤23.23	PASS
11AC20SISO	5745	10.63	≤23.23	PASS
	5785	10.24	≤23.23	PASS
	5825	10.61	≤23.23	PASS
11AC40SISO	5755	10.70	≤23.23	PASS
	5795	9.77	≤23.23	PASS
11AC80SISO	5775	10.29	≤23.23	PASS

Note:

- As Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$ dBi=11.01>6dBi,
So 5.2G limit=23.98-(11.01-6.00)=18.97dBm.
So 5.8G limit=30-(11.01-6.00)=23.23dBm.

Appendix C: Maximum power spectral density

Test Result(5.2G WIFI)

Test Mode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-1.82	≤11	PASS
	Ant2	5180	-1.37	≤11	PASS
	Ant1	5200	-1.18	≤11	PASS
	Ant2	5200	-1.05	≤11	PASS
	Ant1	5240	-1.77	≤11	PASS
	Ant2	5240	-1.97	≤11	PASS
11N20SISO	Ant1	5180	-1.55	≤11	PASS
	Ant2	5180	-1.43	≤11	PASS
	Ant1	5200	-1.68	≤11	PASS
	Ant2	5200	-1.17	≤11	PASS
	Ant1	5240	-2.15	≤11	PASS
	Ant2	5240	-2.37	≤11	PASS
11N40SISO	Ant1	5190	-4	≤11	PASS
	Ant2	5190	-4.77	≤11	PASS
	Ant1	5230	-5.93	≤11	PASS
	Ant2	5230	-4.54	≤11	PASS
11AC20SISO	Ant1	5180	-1.48	≤11	PASS
	Ant2	5180	-0.87	≤11	PASS
	Ant1	5200	-1.78	≤11	PASS
	Ant2	5200	-0.51	≤11	PASS
	Ant1	5240	-1.95	≤11	PASS
	Ant2	5240	-1.5	≤11	PASS
11AC40SISO	Ant1	5190	-4.3	≤11	PASS
	Ant2	5190	-4.92	≤11	PASS
	Ant1	5230	-5.57	≤11	PASS
	Ant2	5230	-5.16	≤11	PASS
11AC80SISO	Ant1	5210	-7.57	≤11	PASS
	Ant2	5210	-8.11	≤11	PASS

Test Result(5.8G WIFI)

Test Mode	Antenna	Channel	Result [dBm/500KHz]	Limit[dBm/500KHz]	Verdict
11A	Ant1	5745	-3.59	≤30	PASS
	Ant2	5745	-4.2	≤30	PASS
	Ant1	5785	-4.7	≤30	PASS

	Ant2	5785	-4.5	≤30	PASS
	Ant1	5825	-3.06	≤30	PASS
	Ant2	5825	-2.92	≤30	PASS
11N20SISO	Ant1	5745	-3.29	≤30	PASS
	Ant2	5745	-3.97	≤30	PASS
	Ant1	5785	-4.39	≤30	PASS
	Ant2	5785	-4.26	≤30	PASS
	Ant1	5825	-3.54	≤30	PASS
	Ant2	5825	-3.13	≤30	PASS
11N40SISO	Ant1	5755	-8.21	≤30	PASS
	Ant2	5755	-8.34	≤30	PASS
	Ant1	5795	-8.35	≤30	PASS
	Ant2	5795	-8.42	≤30	PASS
11AC20SISO	Ant1	5745	-4	≤30	PASS
	Ant2	5745	-5.06	≤30	PASS
	Ant1	5785	-4.5	≤30	PASS
	Ant2	5785	-3.99	≤30	PASS
	Ant1	5825	-3.76	≤30	PASS
	Ant2	5825	-3	≤30	PASS
11AC40SISO	Ant1	5755	-7.62	≤30	PASS
	Ant2	5755	-8.4	≤30	PASS
	Ant1	5795	-8.39	≤30	PASS
	Ant2	5795	-8.6	≤30	PASS
11AC80SISO	Ant1	5775	-11.62	≤30	PASS
	Ant2	5775	-10.77	≤30	PASS

Test Result(MIMO 5.2G WIFI)

Test Mode	Channel	Result[dBm]	Limit[dBm]	Verdict
11N20SISO	5180	1.52	≤5.99	PASS
	5200	1.59	≤5.99	PASS
	5240	0.75	≤5.99	PASS
11N40SISO	5190	-1.36	≤5.99	PASS
	5230	-2.17	≤5.99	PASS
11AC20SISO	5180	1.85	≤5.99	PASS
	5200	1.91	≤5.99	PASS
	5240	1.29	≤5.99	PASS
11AC40SISO	5190	-1.59	≤5.99	PASS
	5230	-2.35	≤5.99	PASS
11AC80SISO	5210	-4.82	≤5.99	PASS

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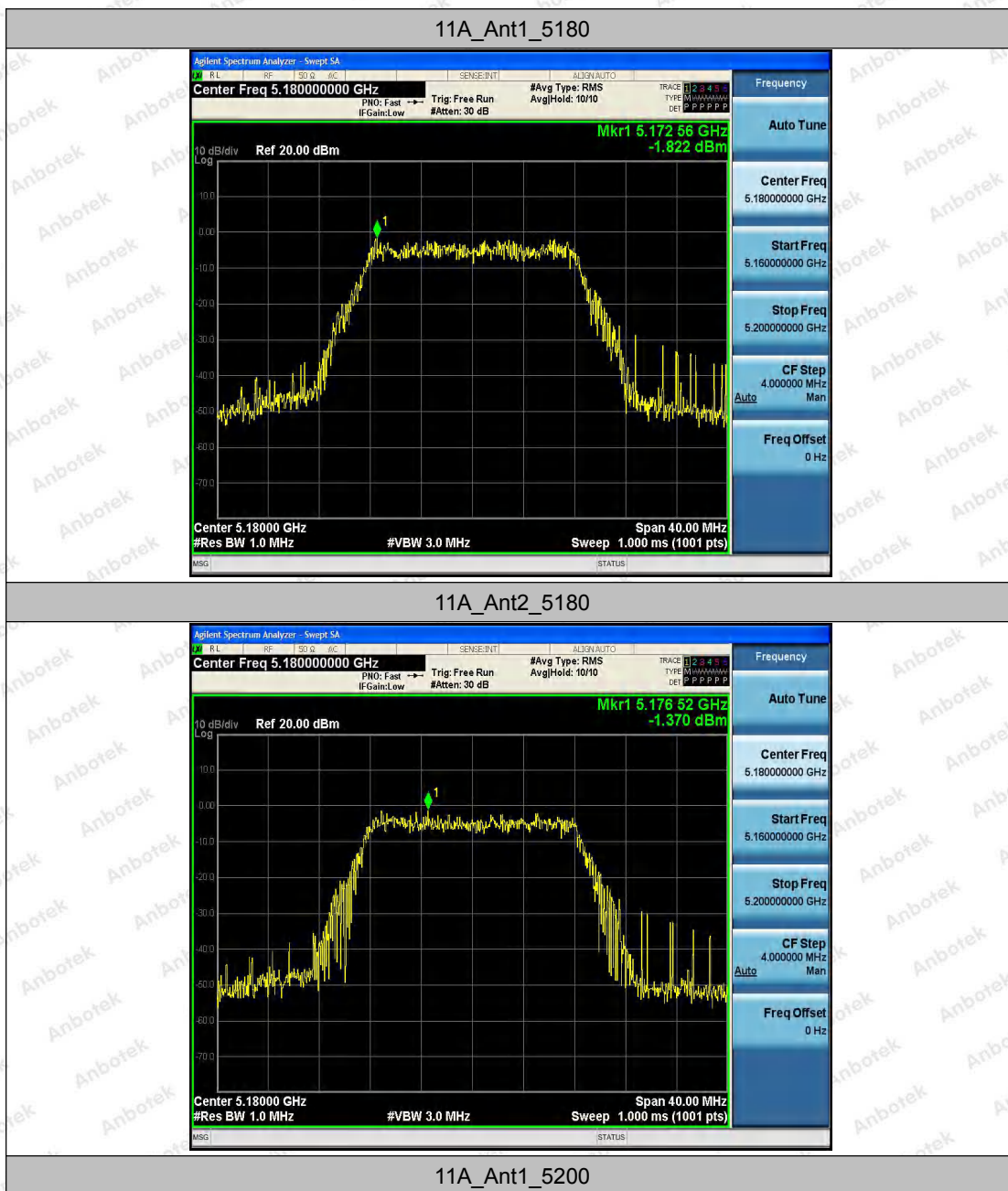
Test Result(MIMO 5.8G WIFI)

Test Mode	Channel	Result[dBm/500KH]	Limit[dBm]	Verdict
11N20SISO	5745	-0.61	≤24.99	PASS
	5785	-1.31	≤24.99	PASS
	5825	-0.32	≤24.99	PASS
11N40SISO	5755	-5.26	≤24.99	PASS
	5795	-5.37	≤24.99	PASS
11AC20SISO	5745	-1.49	≤24.99	PASS
	5785	-1.23	≤24.99	PASS
	5825	-0.35	≤24.99	PASS
11AC40SISO	5755	-4.98	≤24.99	PASS
	5795	-5.48	≤24.99	PASS
11AC80SISO	5775	-8.16	≤24.99	PASS

Note:

- As Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20})^2 / N_{ANT}]$ dBi=11.01>6dBi,
 So 5.2G limit=11-(11.01-6.00)=5.99dBm.
 So 5.8G limit=30-(11.01-6.00)=24.99dBm.

Test Graphs



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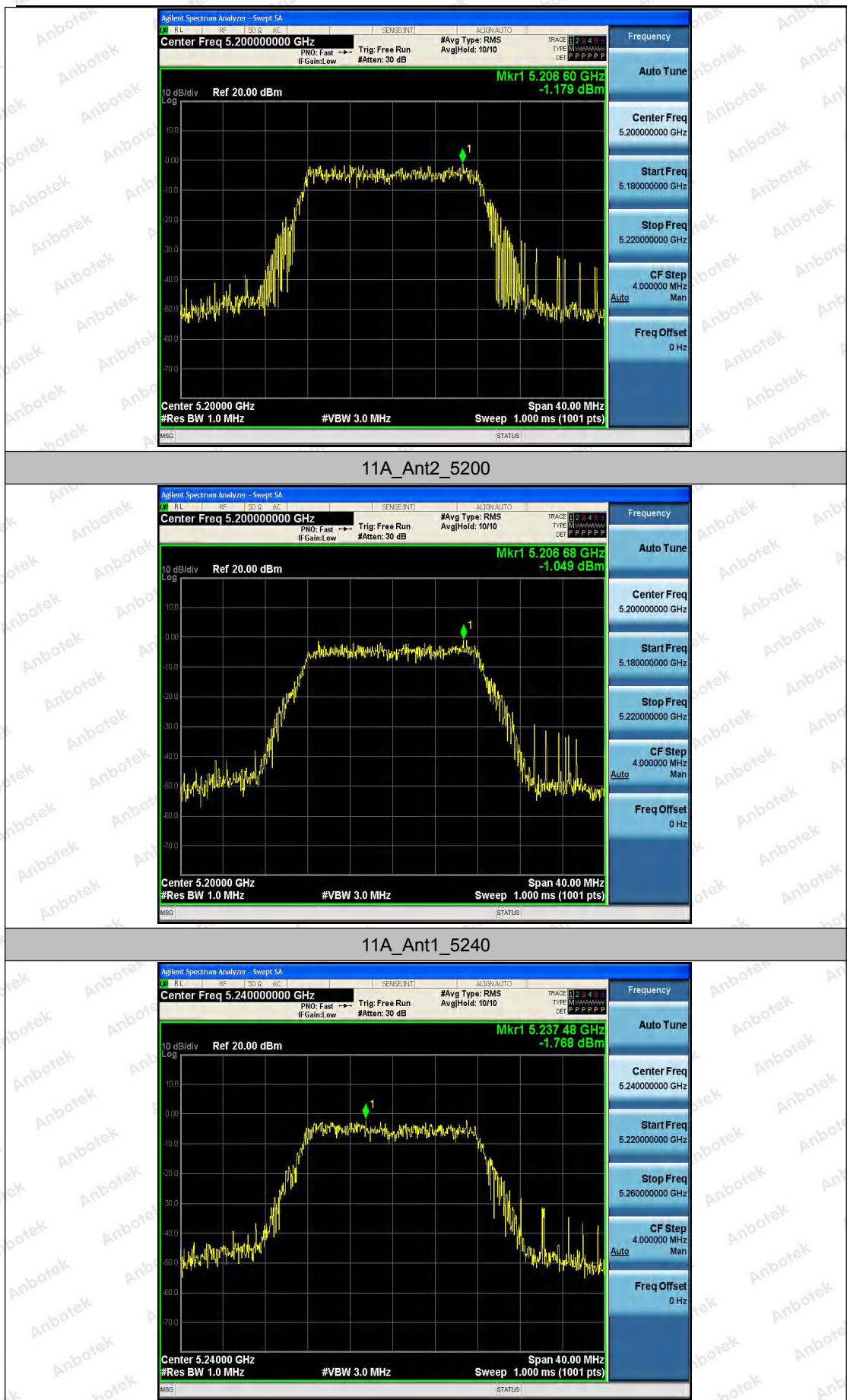
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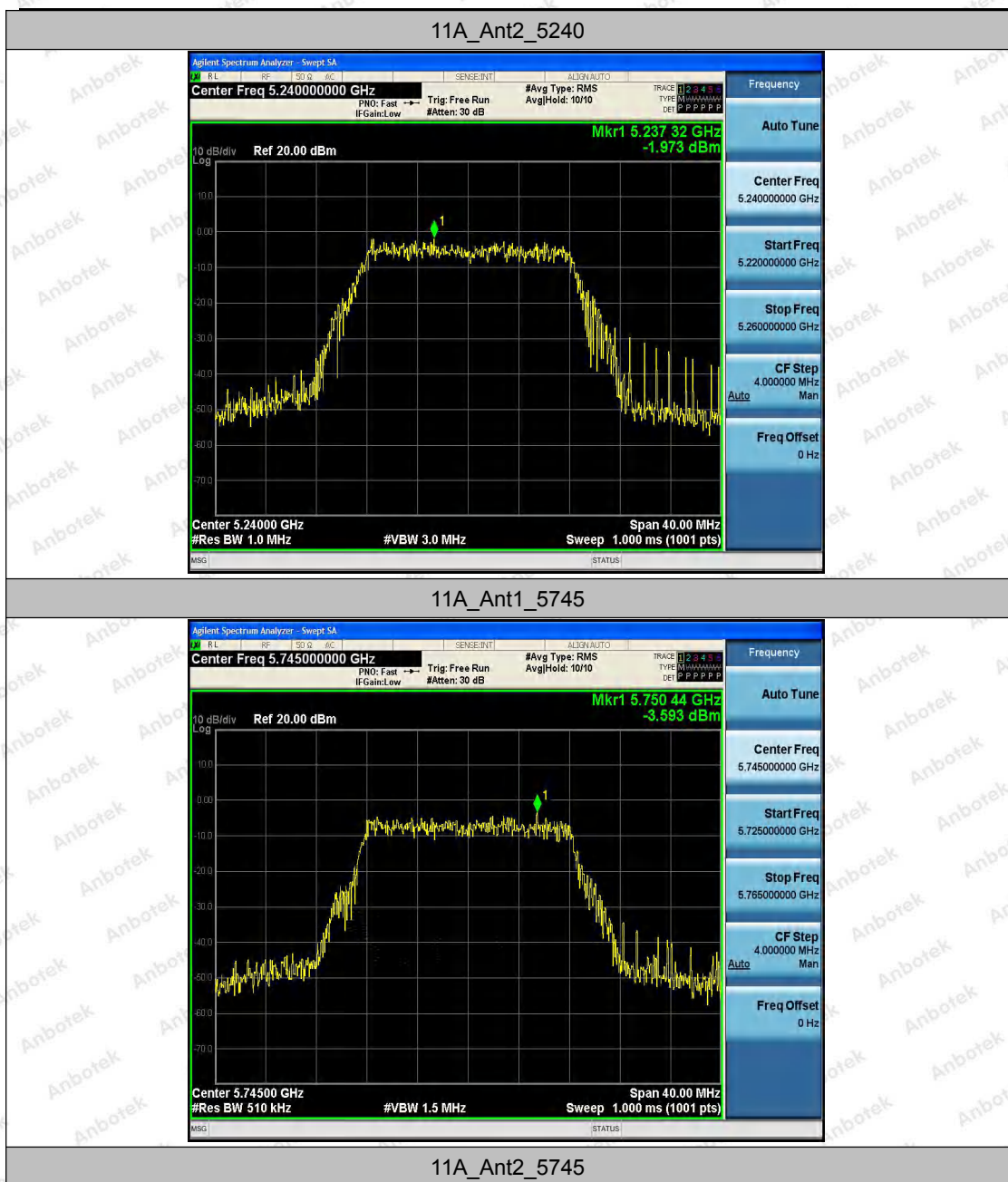
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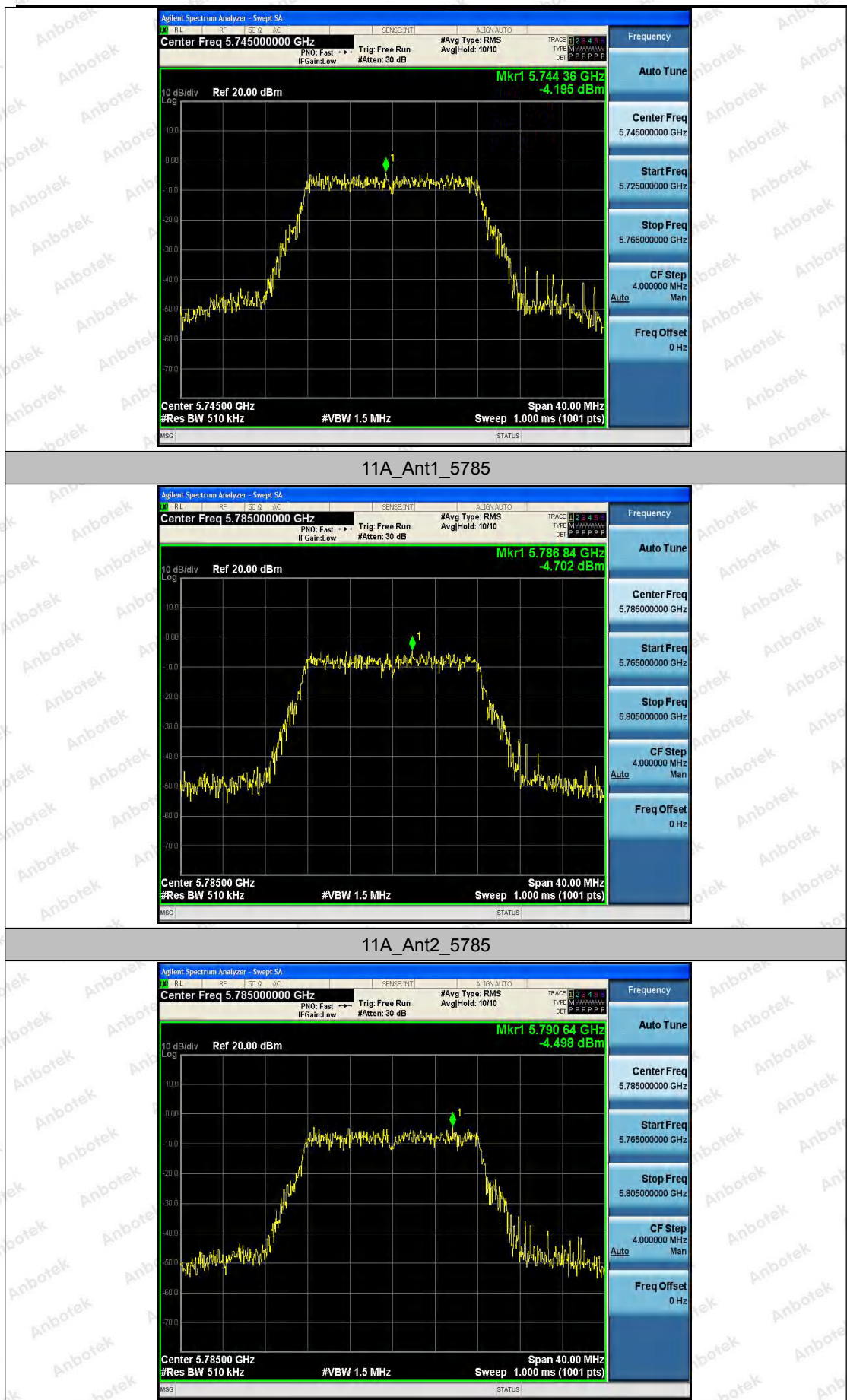
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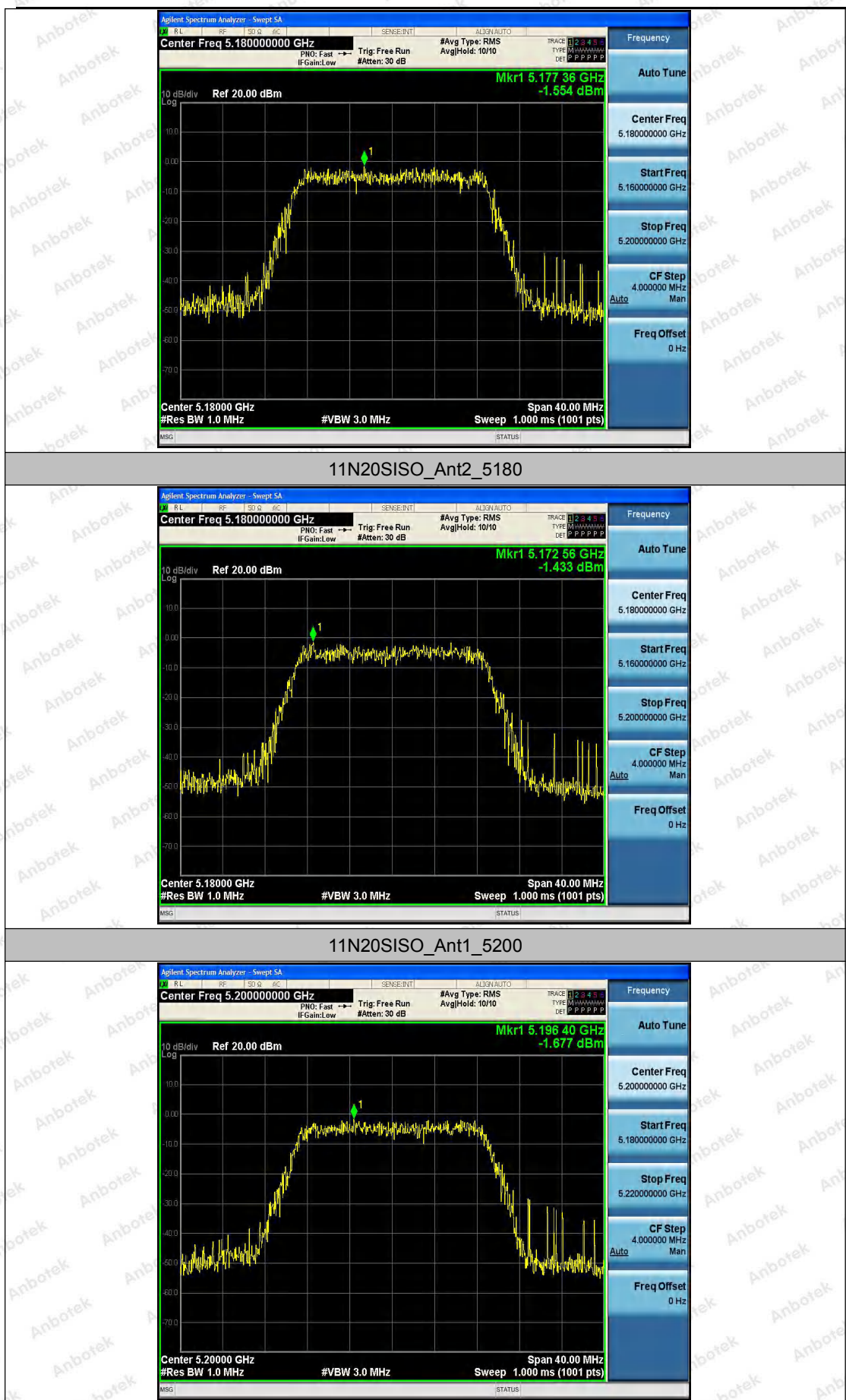


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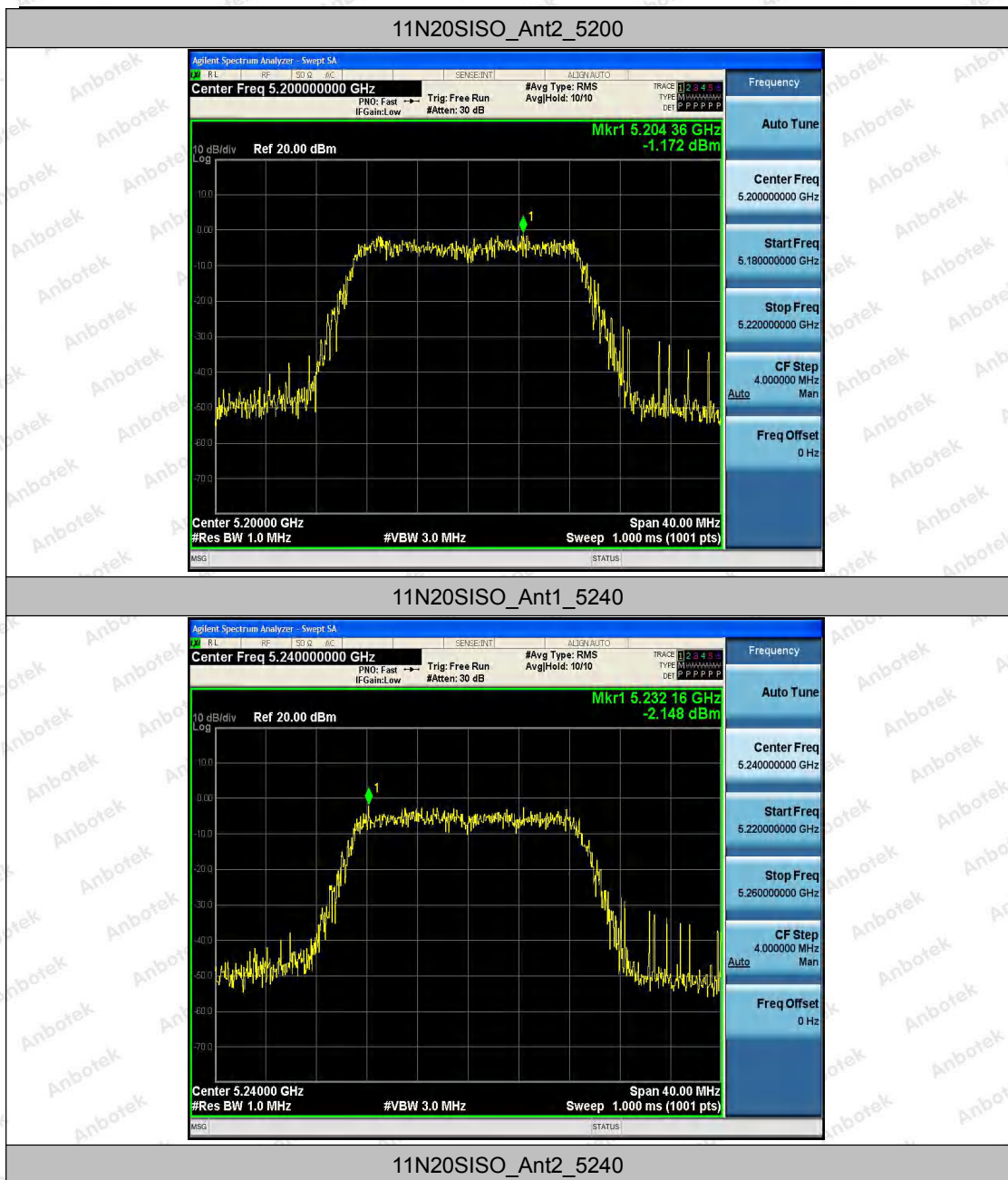
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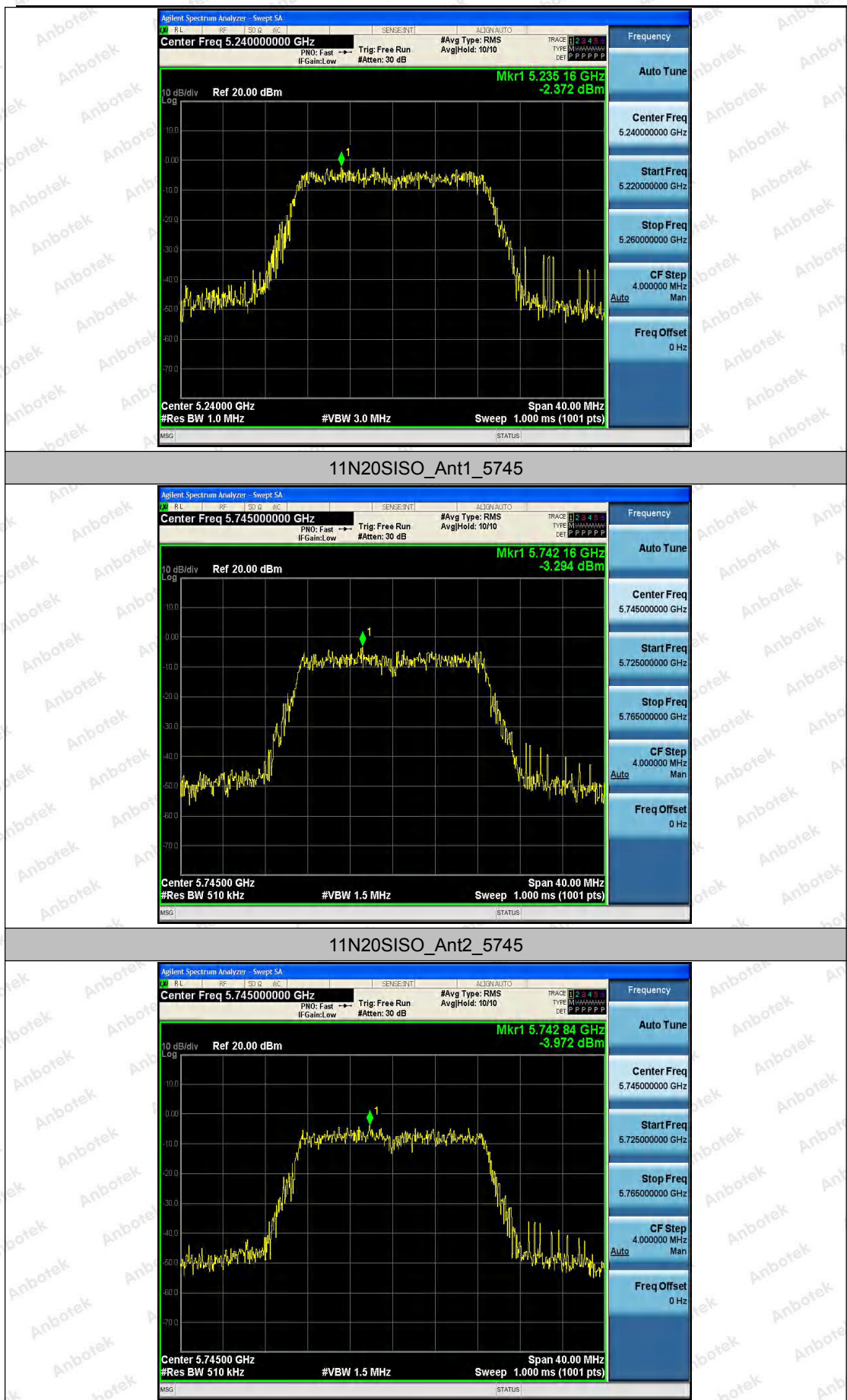


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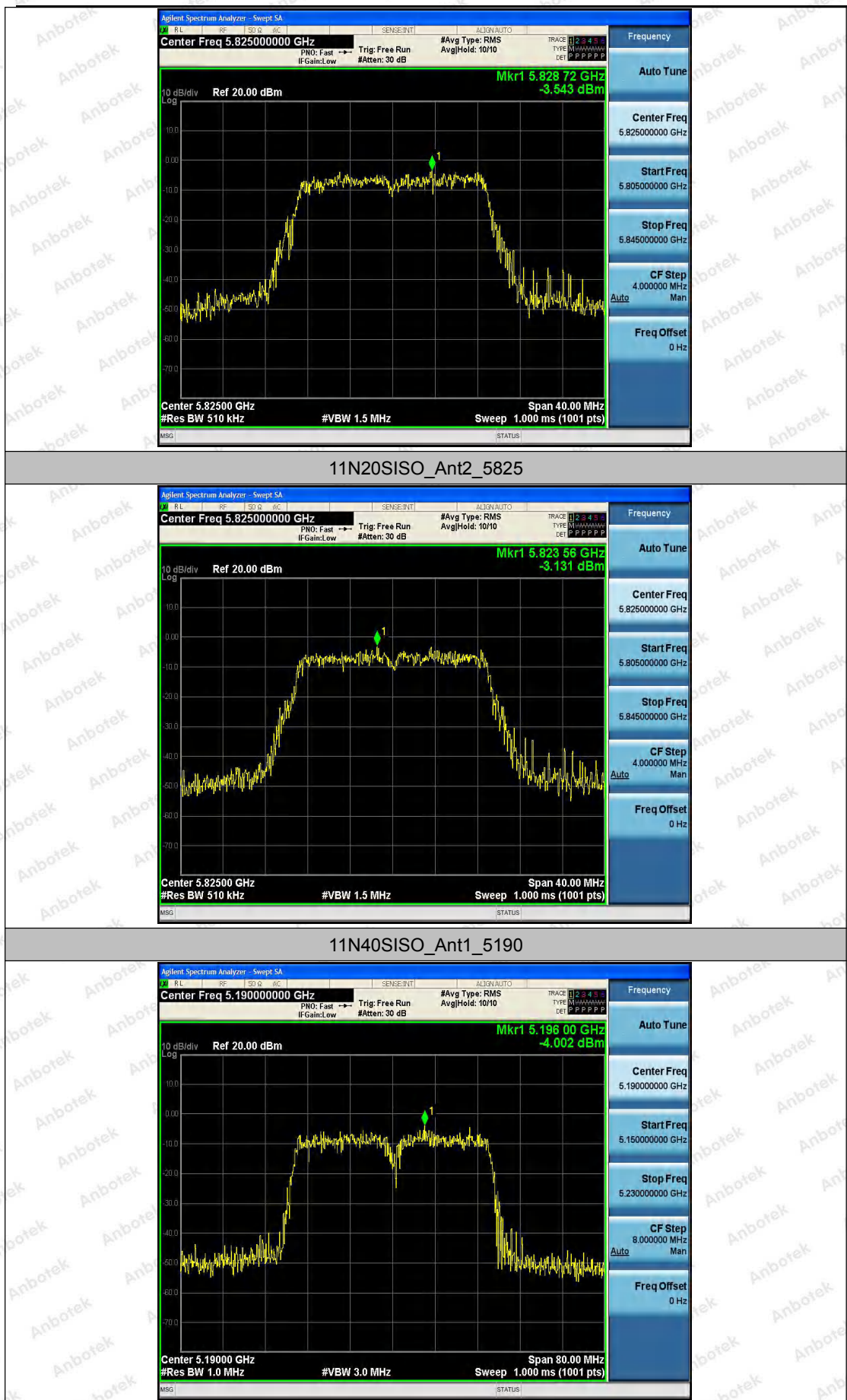
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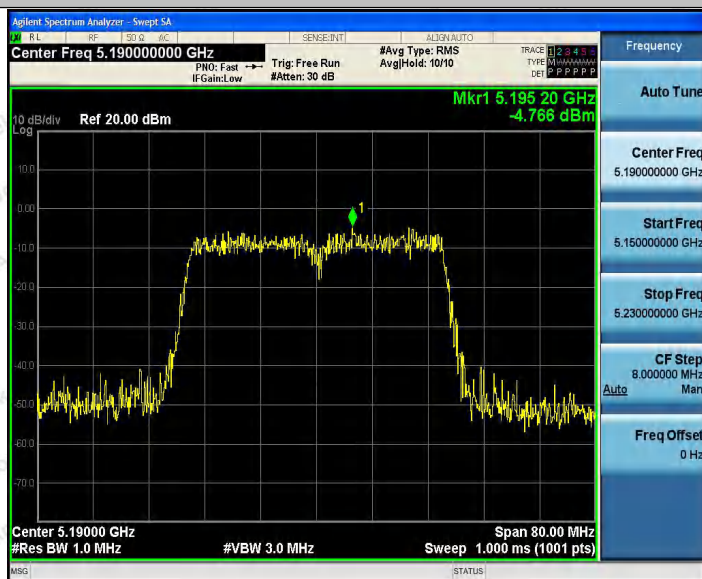


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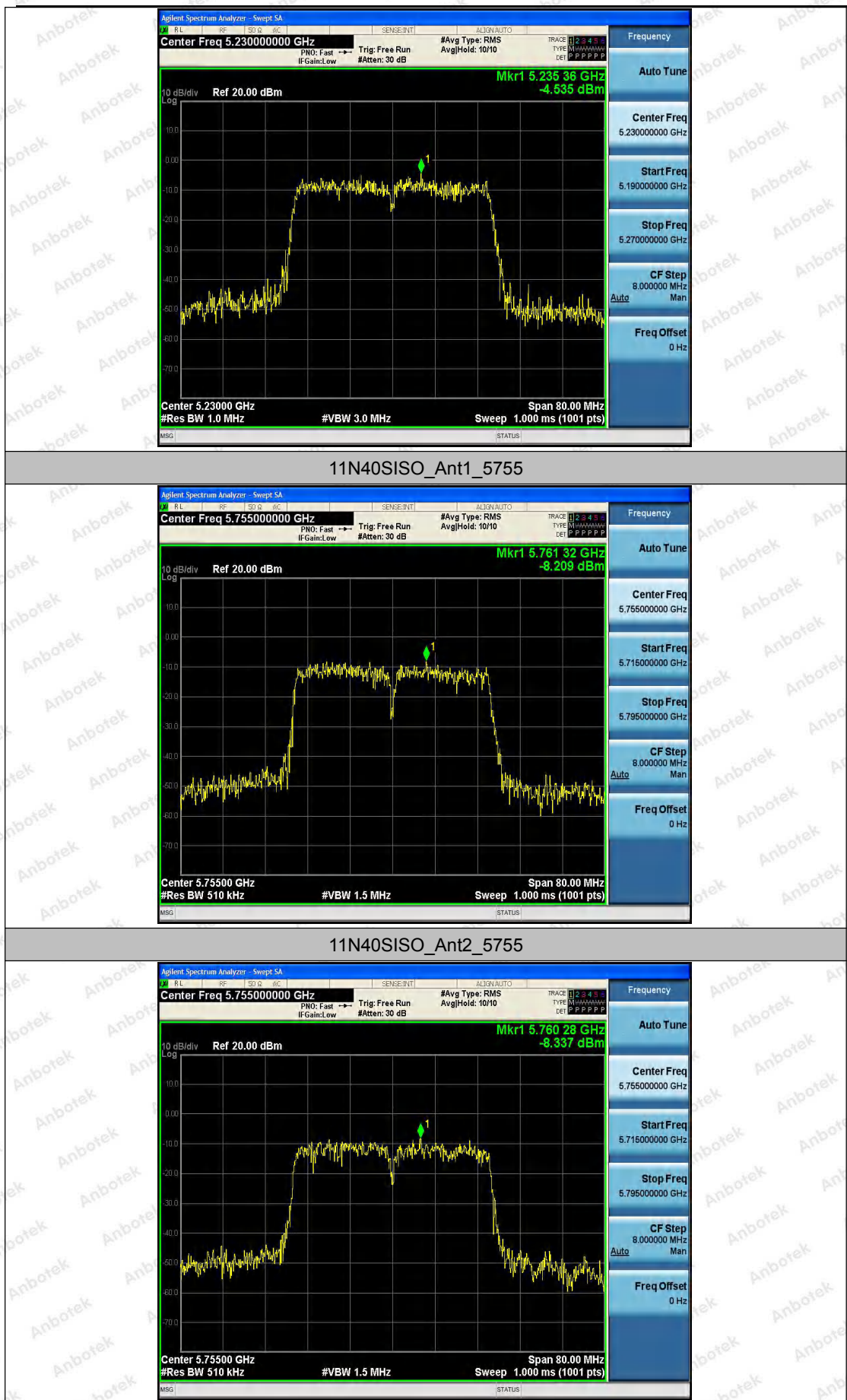
11N40SISO_Ant2_5190



11N40SISO_Ant1_5230



11N40SISO_Ant2_5230



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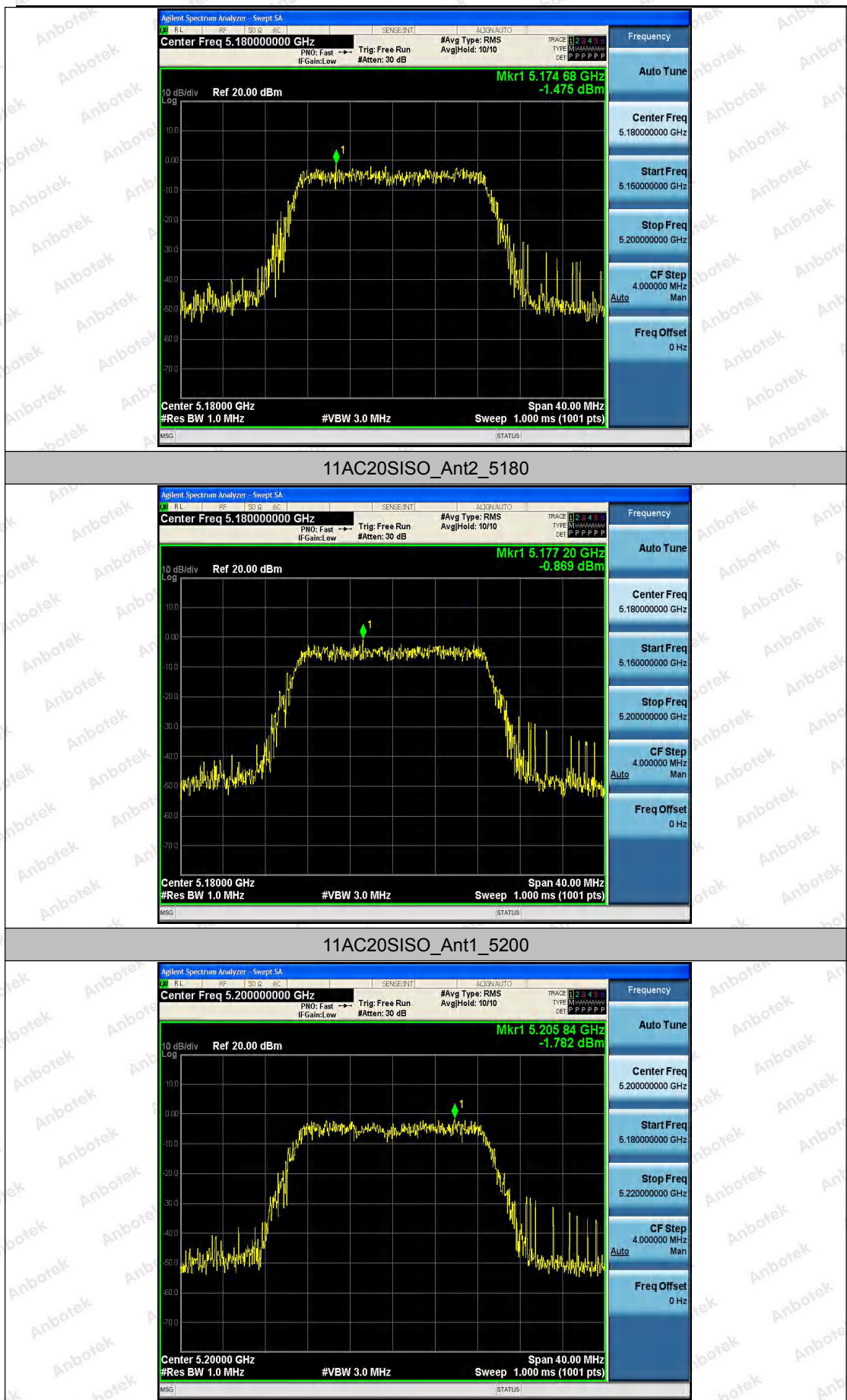
11N40SISO_Ant1_5795



11N40SISO_Ant2_5795



11AC20SISO_Ant1_5180



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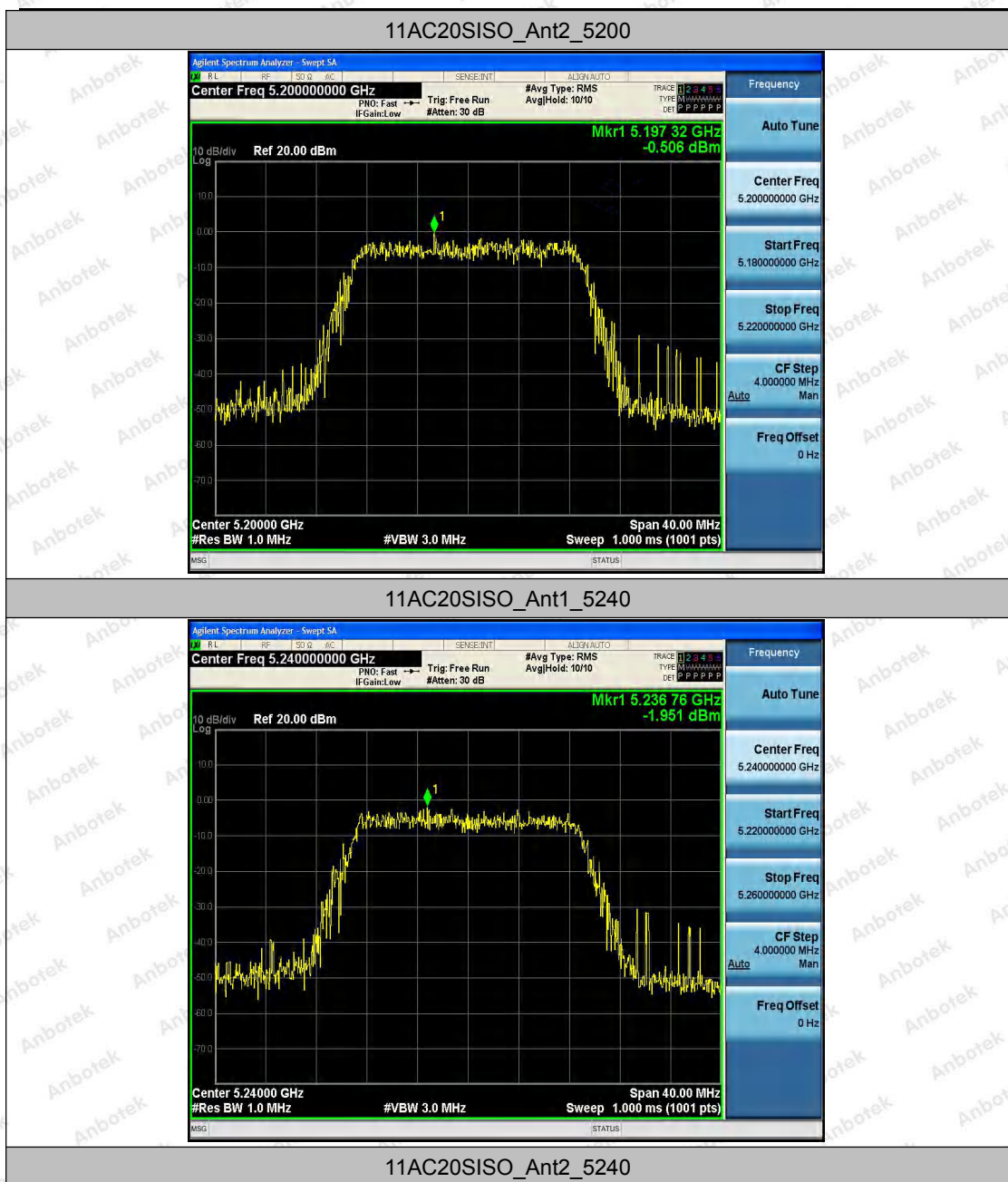
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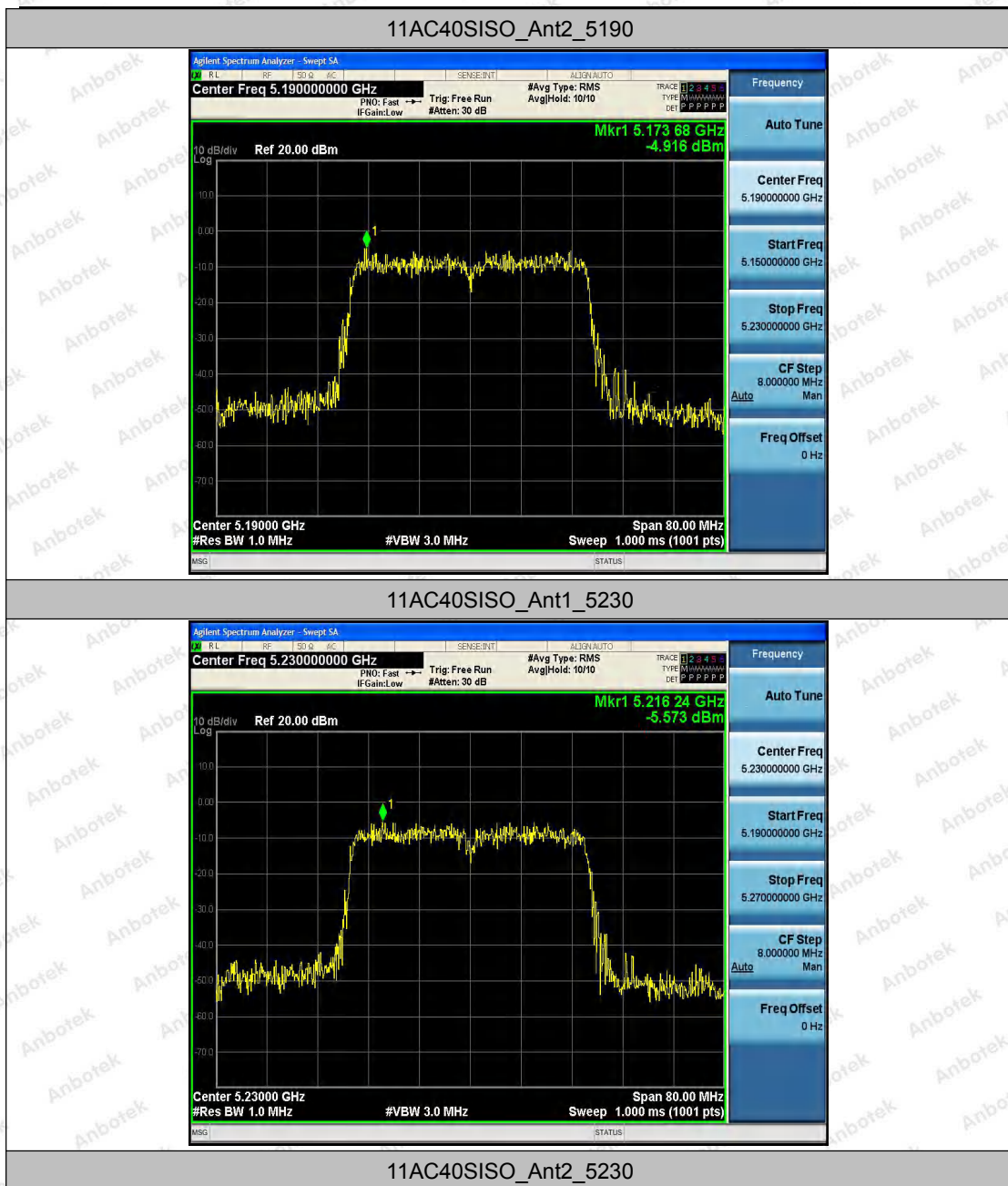


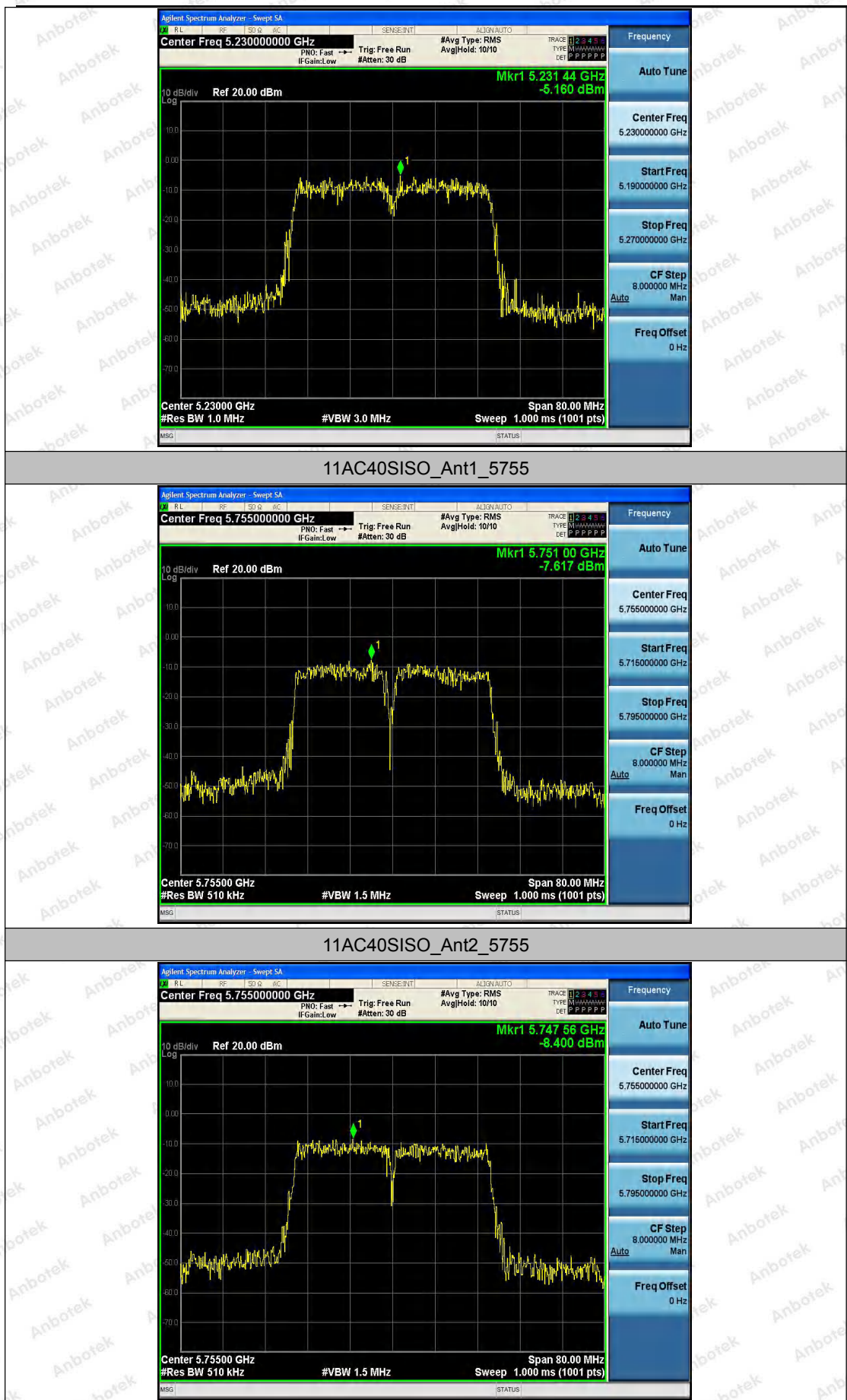
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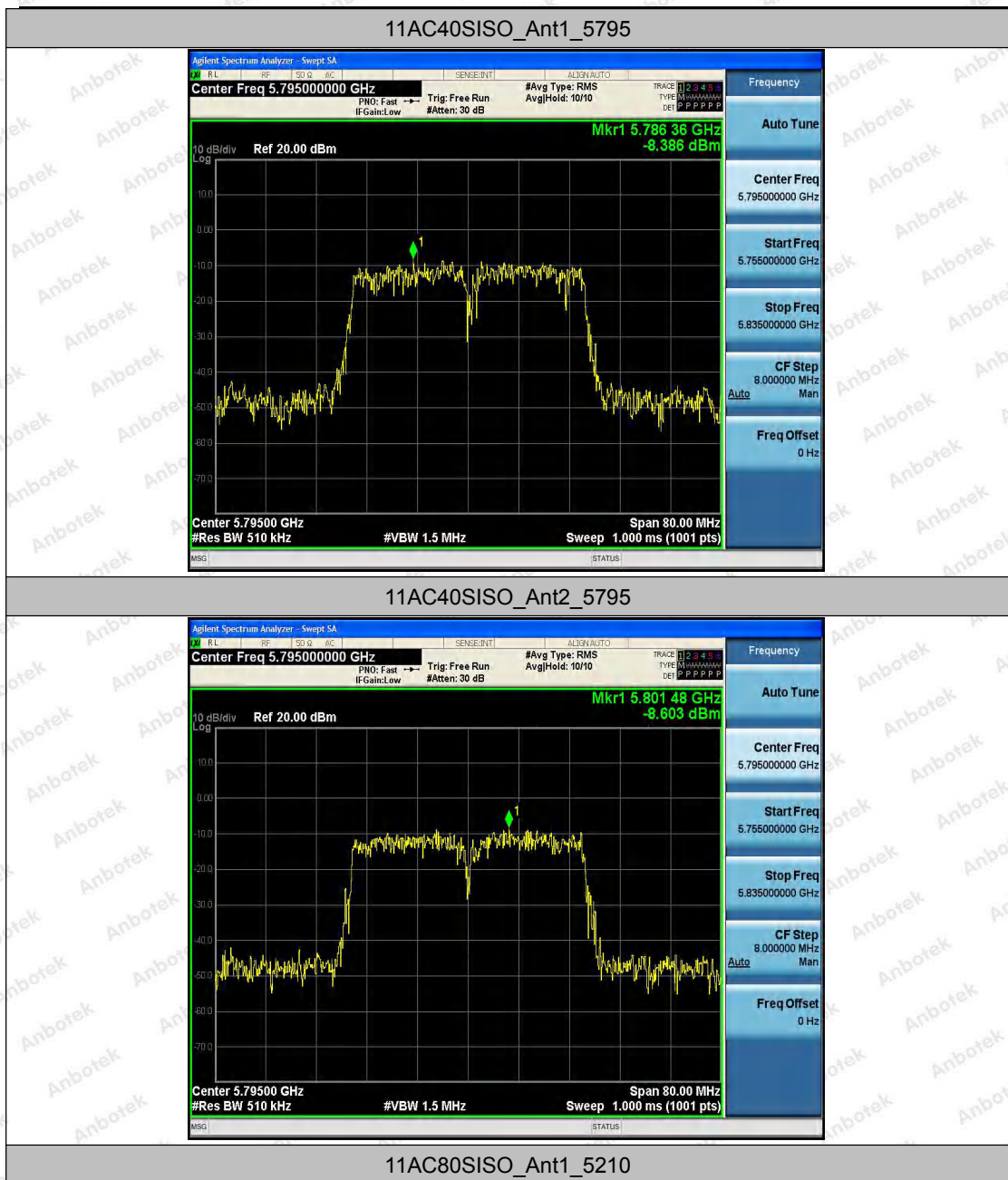
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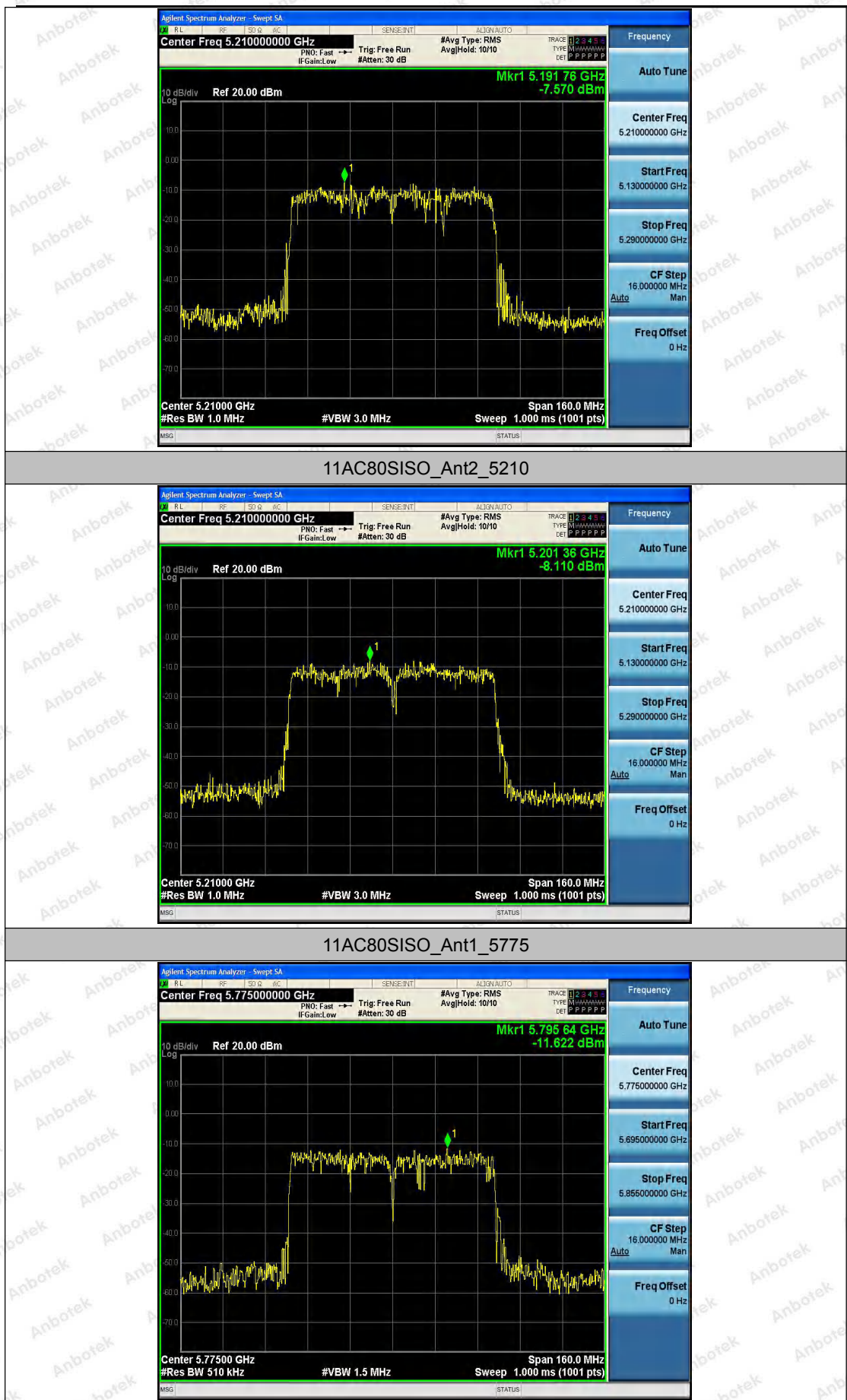


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Appendix D: Band edge measurements

Test Result

Test Mode	Antenna	ChName	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-36.18	≤-27	PASS
	Ant2	Low	5180	-37.76	≤-27	PASS
	Ant1	High	5240	-44.82	≤-27	PASS
	Ant2	High	5240	-43.62	≤-27	PASS
11N20SIS O	Ant1	Low	5180	-36.49	≤-27	PASS
	Ant2	Low	5180	-37.03	≤-27	PASS
	Ant1	High	5240	-44.82	≤-27	PASS
	Ant2	High	5240	-44.72	≤-27	PASS
11N40SIS O	Ant1	Low	5190	-34.84	≤-27	PASS
	Ant2	Low	5190	-33.49	≤-27	PASS
	Ant1	High	5230	-44.57	≤-27	PASS
	Ant2	High	5230	-45.23	≤-27	PASS
11AC20SI SO	Ant1	Low	5180	-36.97	≤-27	PASS
	Ant2	Low	5180	-36.04	≤-27	PASS
	Ant1	High	5240	-45.15	≤-27	PASS
	Ant2	High	5240	-44.71	≤-27	PASS
11AC40SI SO	Ant1	Low	5190	-28.43	≤-27	PASS
	Ant2	Low	5190	-33.4	≤-27	PASS
	Ant1	High	5230	-44.71	≤-27	PASS
	Ant2	High	5230	-44.49	≤-27	PASS
11AC80SI SO	Ant1	Low	5210	-28.77	≤-27	PASS
	Ant2	Low	5210	-28.55	≤-27	PASS
	Ant1	High	5210	-42.33	≤-27	PASS
	Ant2	High	5210	-43.92	≤-27	PASS

TestMode	Antenna	ChName	Channel	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-42.91	≤-16.97	PASS
				5700~5720	-27.38	≤15.16	PASS
				5720~5725	-22.56	≤26.13	PASS
				5755~5650	-43.13	≤-27	PASS
	Ant2	Low	5745	5650~5700	-41.37	≤9.87	PASS
				5700~5720	-28.81	≤15.59	PASS
				5720~5725	-20.34	≤24.01	PASS
				5755~5650	-43.27	≤-27	PASS
	Ant1	High	5825	5850~5855	-32.99	≤18.56	PASS
				5855~5875	-35	≤10.27	PASS
				5875~5925	-43.12	≤-22.56	PASS
				5925~5950	-42.52	≤-27	PASS
11N20SI SO	Ant1	Low	5745	5650~5700	-39.35	≤9.18	PASS
				5700~5720	-28.38	≤15.59	PASS
				5720~5725	-18.37	≤22.60	PASS
				5755~5650	-43.1	≤-27	PASS
	Ant2	Low	5745	5650~5700	-39.92	≤9.52	PASS
				5700~5720	-25.53	≤15.50	PASS
				5720~5725	-19.71	≤26.13	PASS
				5755~5650	-43.45	≤-27	PASS
	Ant1	High	5825	5850~5855	-30.96	≤20.27	PASS
				5855~5875	-34.84	≤10.48	PASS
				5875~5925	-43.23	≤6.41	PASS
				5925~5950	-43.22	≤-27	PASS
11N40SI SO	Ant1	Low	5755	5650~5700	-34.09	≤8.05	PASS
				5700~5720	-22.67	≤14.17	PASS
				5720~5725	-21.95	≤17.33	PASS
				5745~5650	-43.53	≤-27	PASS
	Ant2	Low	5755	5650~5700	-33.44	≤9.82	PASS
				5700~5720	-22.63	≤15.51	PASS
				5720~5725	-21.75	≤18.70	PASS

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11AC20S ISO	Ant1	High	5795	5745~5650	-43.41	≤ -27	PASS
				5850~5855	-42.23	≤ 19.45	PASS
				5855~5875	-41.97	≤ 11.10	PASS
				5875~5925	-43.78	≤ 3.93	PASS
				5925~5950	-43.91	≤ -27	PASS
	Ant2	High	5795	5850~5855	-42.02	≤ 20.45	PASS
				5855~5875	-42.97	≤ 10.41	PASS
				5875~5925	-43.68	≤ -15.06	PASS
				5925~5950	-43.26	≤ -27	PASS
	Ant1	Low	5745	5650~5700	-42.59	≤ 9.41	PASS
				5700~5720	-27.51	≤ 15.46	PASS
				5720~5725	-21.36	≤ 26.13	PASS
				5755~5650	-42.86	≤ -27	PASS
11AC40S ISO	Ant2	Low	5745	5650~5700	-41.86	≤ 9.64	PASS
				5700~5720	-27.83	≤ 15.59	PASS
				5720~5725	-19.32	≤ 26.84	PASS
				5755~5650	-42.39	≤ -27	PASS
	Ant1	High	5825	5850~5855	-29.93	≤ 17.20	PASS
				5855~5875	-34.03	≤ 10.18	PASS
				5875~5925	-43.25	≤ -4.02	PASS
				5925~5950	-43.14	≤ -27	PASS
	Ant2	High	5825	5850~5855	-30.41	≤ 16.17	PASS
				5855~5875	-35.59	≤ 10.01	PASS
				5875~5925	-43.38	≤ -10.91	PASS
				5925~5950	-43.6	≤ -27	PASS
11AC80S	Ant1	Low	5755	5650~5700	-34.86	≤ 7.34	PASS
				5700~5720	-22.71	≤ 15.48	PASS
				5720~5725	-21.45	≤ 17.33	PASS
				5745~5650	-42.76	≤ -27	PASS
	Ant2	Low	5755	5650~5700	-36.37	≤ 10.00	PASS
				5700~5720	-22.96	≤ 14.94	PASS
				5720~5725	-23.8	≤ 17.61	PASS
				5745~5650	-42.36	≤ -27	PASS
	Ant1	High	5795	5850~5855	-41.01	≤ 15.82	PASS
				5855~5875	-41.1	≤ 10.09	PASS
				5875~5925	-43.49	≤ -23.33	PASS
				5925~5950	-43.48	≤ -27	PASS
11AC80S	Ant2	High	5795	5850~5855	-41.76	≤ 16.15	PASS
				5855~5875	-41.92	≤ 13.66	PASS
				5875~5925	-43.33	≤ -6.48	PASS
				5925~5950	-43.29	≤ -27	PASS
11AC80S	Ant1	Low	5775	5650~5700	-24.74	≤ 8.77	PASS

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ISO	Ant2			5700~5720	-21.51	≤15.59	PASS
				5720~5725	-21.58	≤16.25	PASS
				5765~5650	-34.42	≤-27	PASS
		High	5775	5850~5855	-27.45	≤20.11	PASS
				5855~5875	-28	≤12.00	PASS
				5875~5925	-36.41	≤-26.87	PASS
				5925~5950	-42.45	≤-27	PASS
		Low	5775	5650~5700	-24.66	≤8.28	PASS
				5700~5720	-21.66	≤15.59	PASS
				5720~5725	-21.51	≤23.40	PASS
				5765~5650	-34.51	≤-27	PASS
		High	5775	5850~5855	-27.46	≤25.07	PASS
				5855~5875	-26.69	≤10.66	PASS
				5875~5925	-38.73	≤-26.76	PASS
				5925~5950	-43.29	≤-27	PASS

Test Graphs

11A_Ant1_Low_5180



11A_Ant2_Low_5180



11A_Ant1_High_5240

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11A_Ant2_High_5240



11N20SISO_Ant1_Low_5180



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11N20SISO_Ant2_Low_5180



11N20SISO_Ant1_High_5240



11N20SISO_Ant2_High_5240

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11N40SISO_Ant1_Low_5190



11N40SISO_Ant2_Low_5190



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