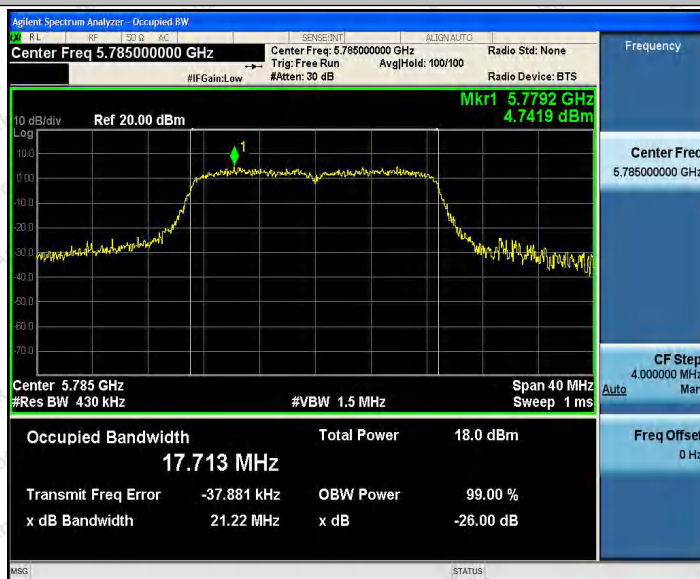
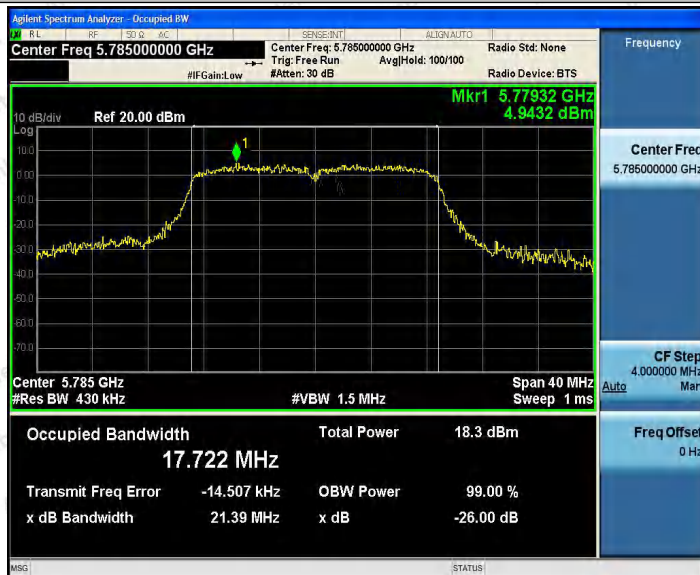


11N20SISO_Ant1_5785



11N20SISO_Ant2_5785



11N20SISO_Ant3_5785

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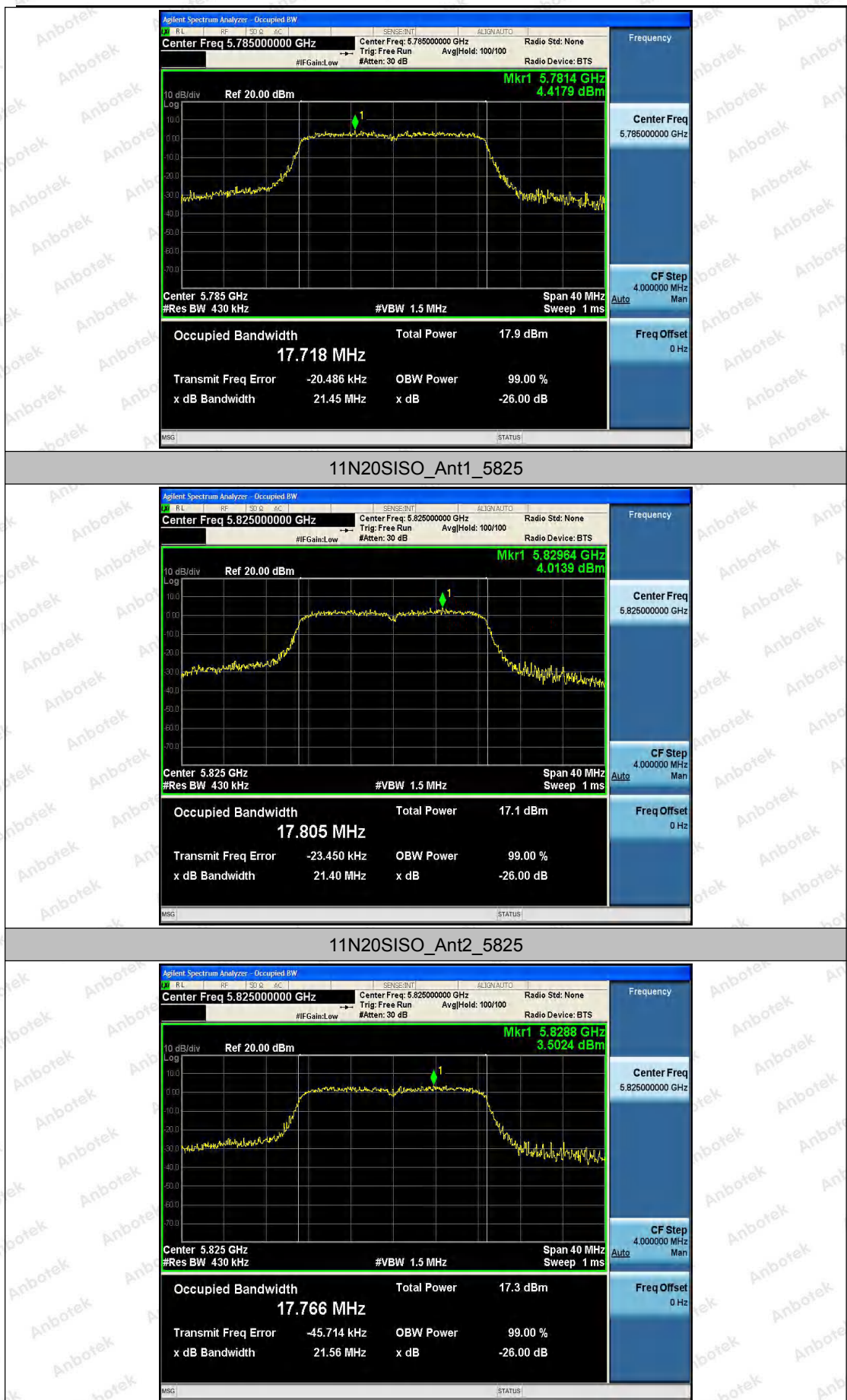
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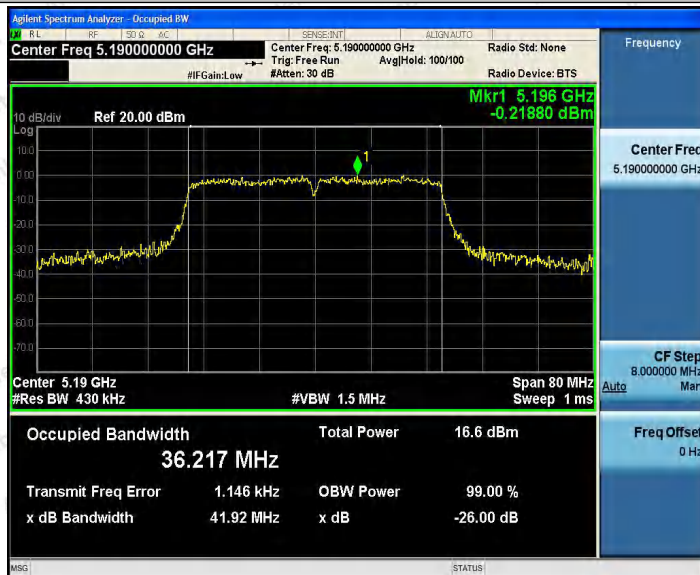
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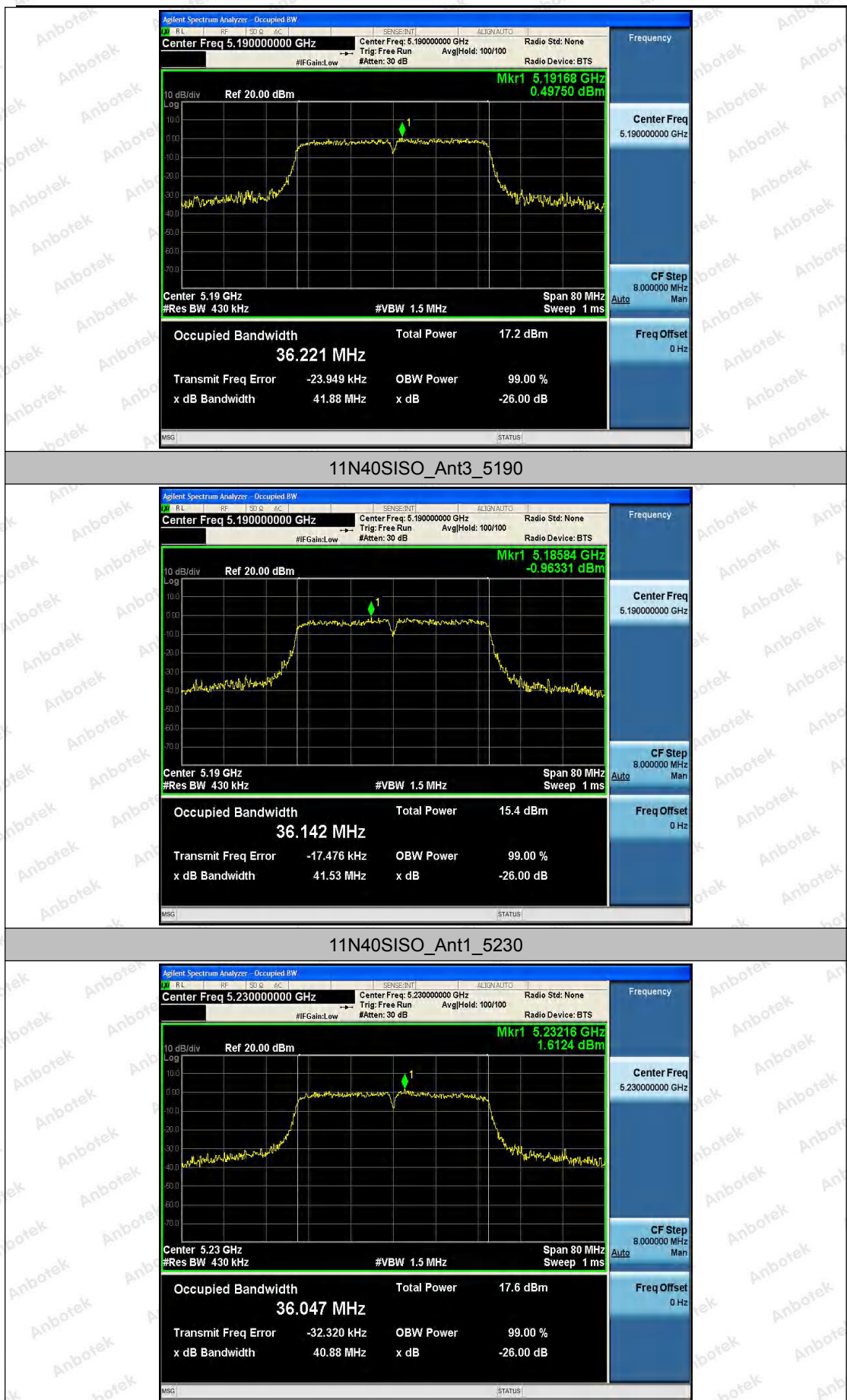
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11N40SISO_Ant1_5190



11N40SISO_Ant2_5190



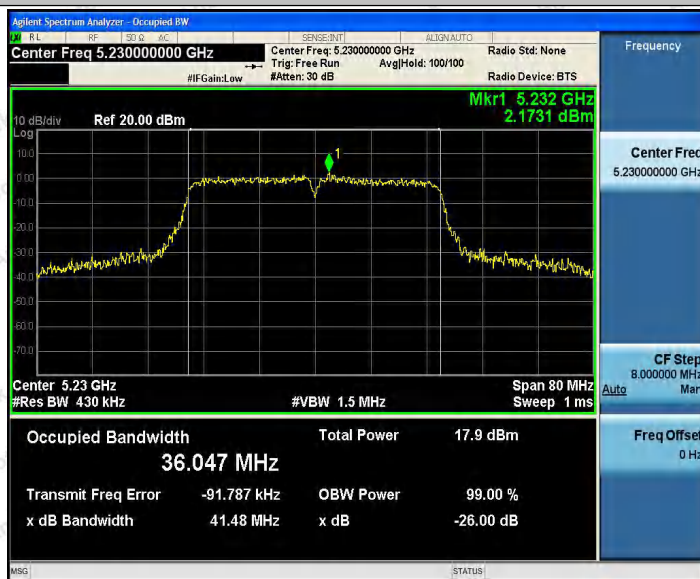
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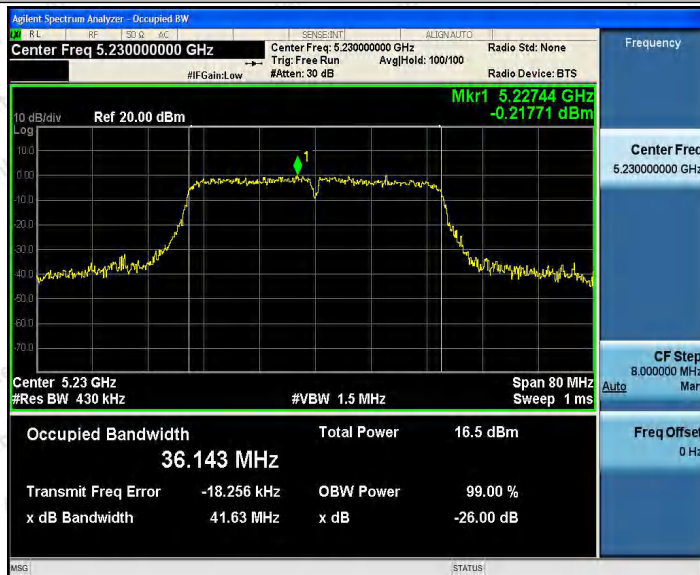
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11N40SISO_Ant2_5230



11N40SISO_Ant3_5230



11N40SISO_Ant1_5755

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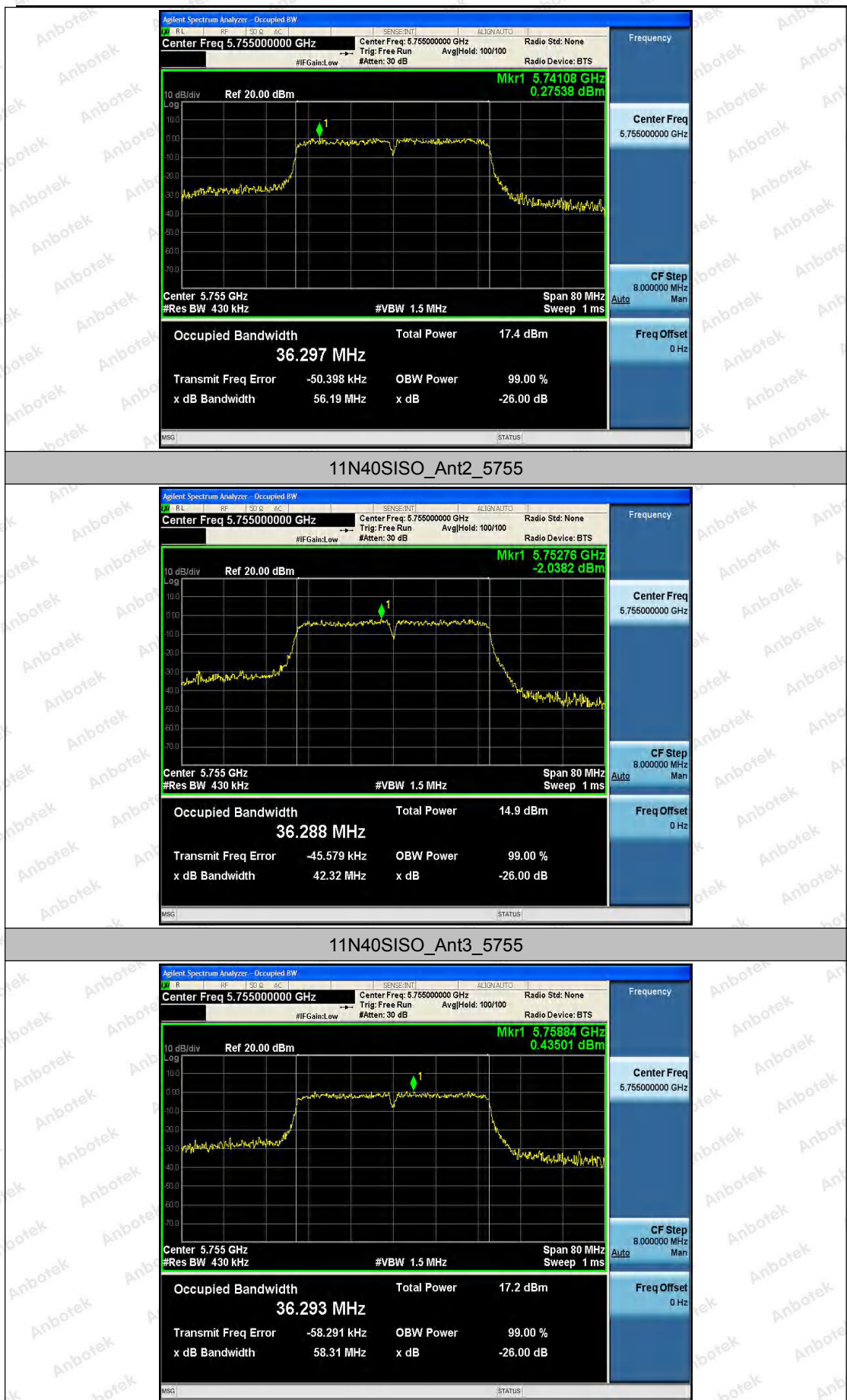
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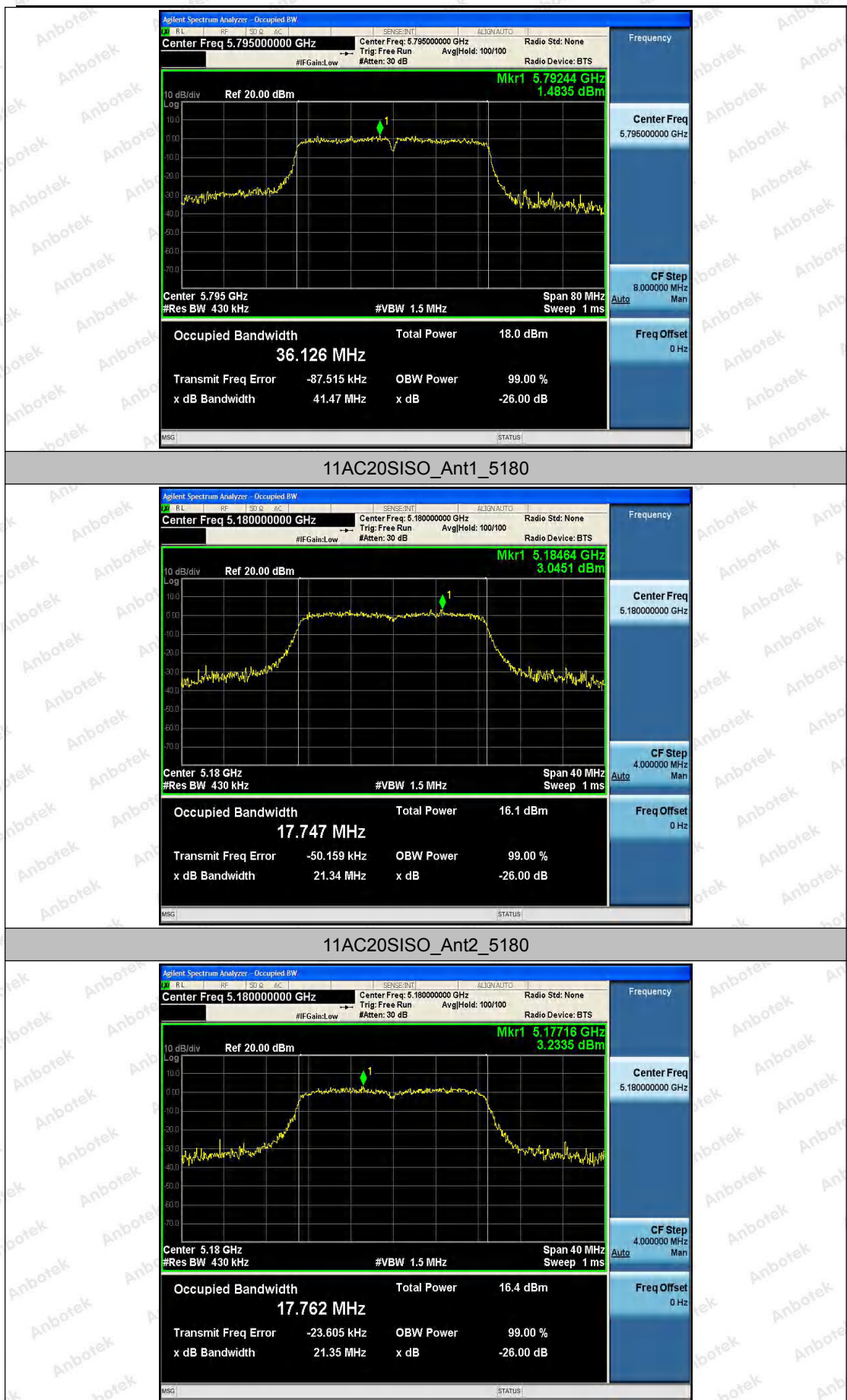
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11N40SISO_Ant2_5795



11N40SISO_Ant3_5795



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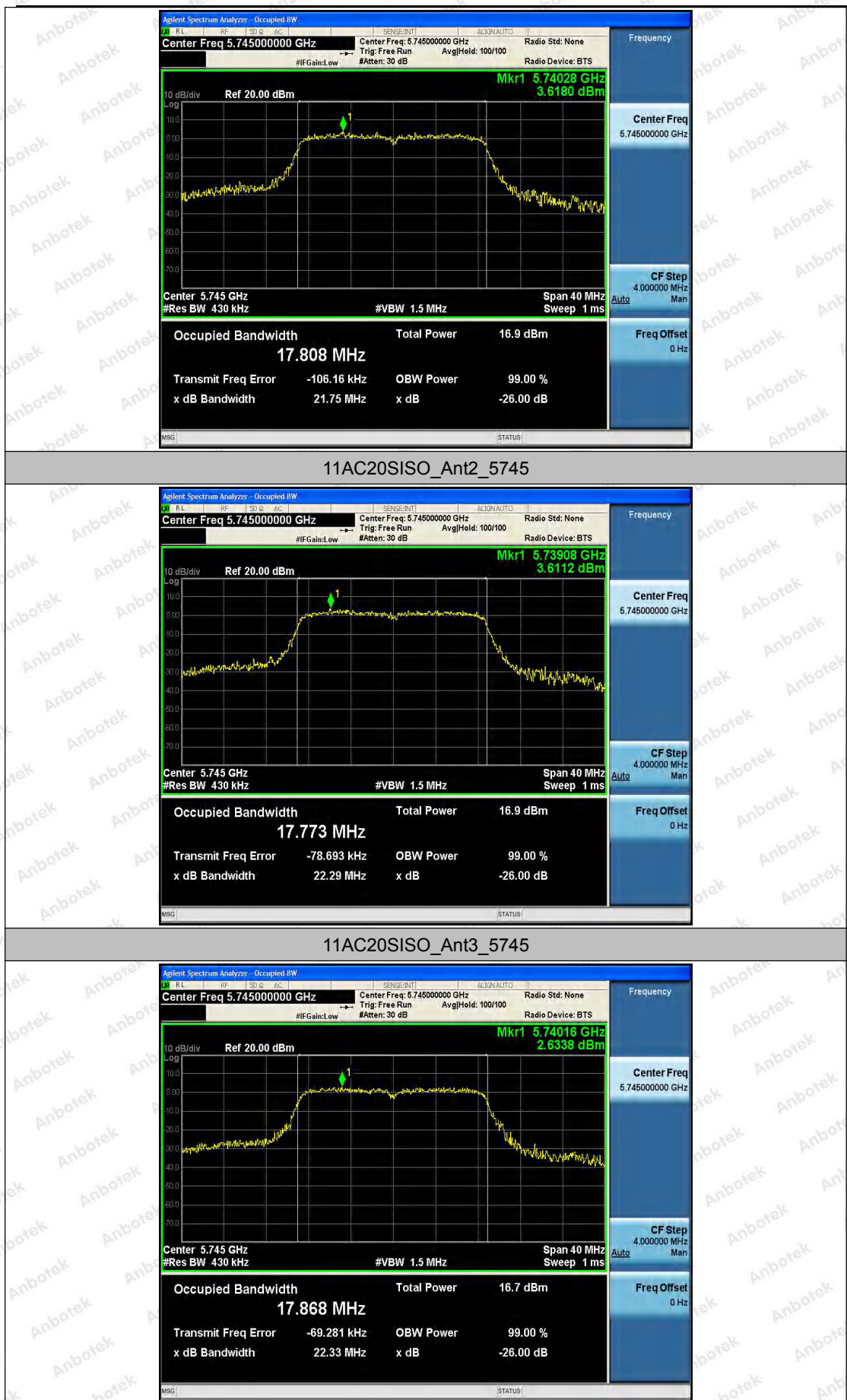
11AC20SISO_Ant2_5240



11AC20SISO_Ant3_5240



11AC20SISO_Ant1_5745



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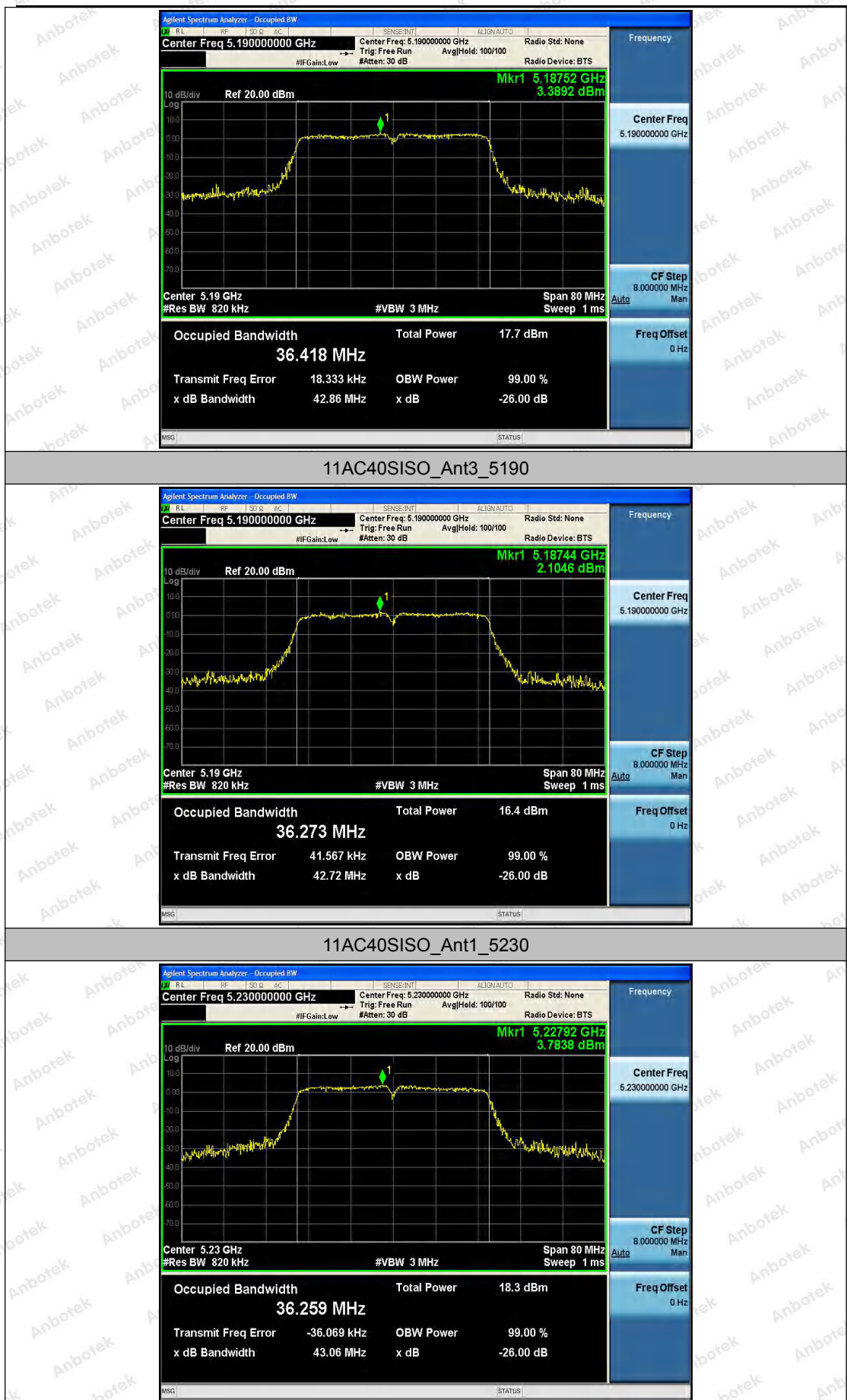
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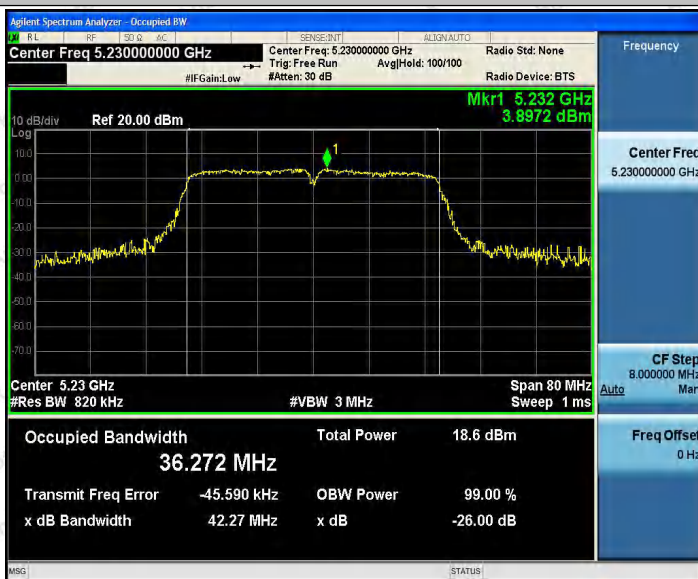
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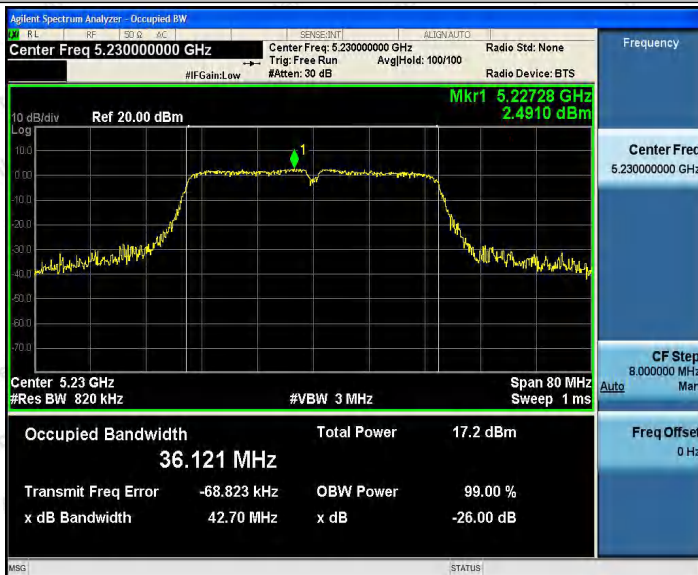
Tel: (86) 755-26066440 Fax: (86) 755-26014772 Email: service@anbotek.com

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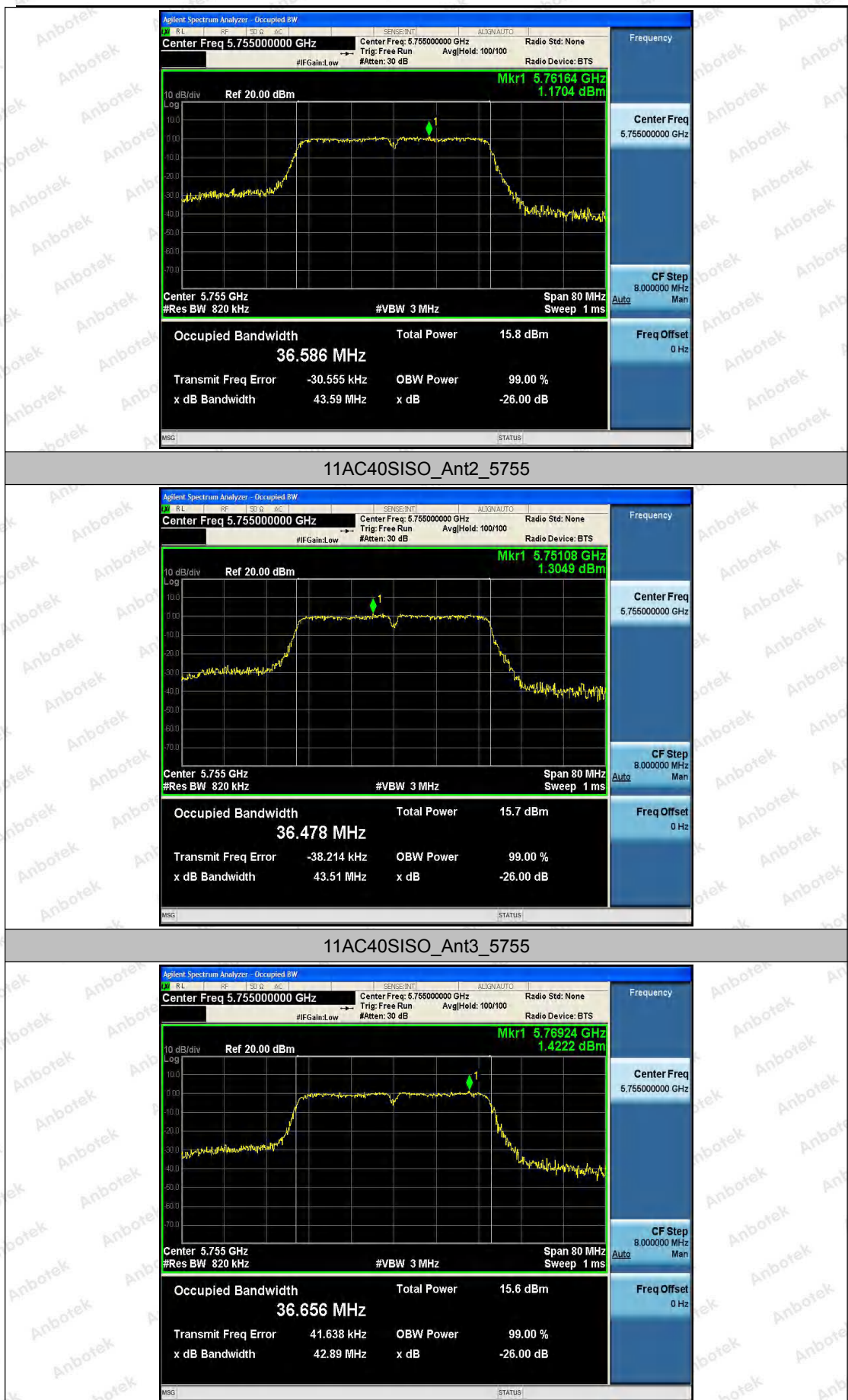
11AC40SISO_Ant2_5230



11AC40SISO_Ant3_5230



11AC40SISO_Ant1_5755

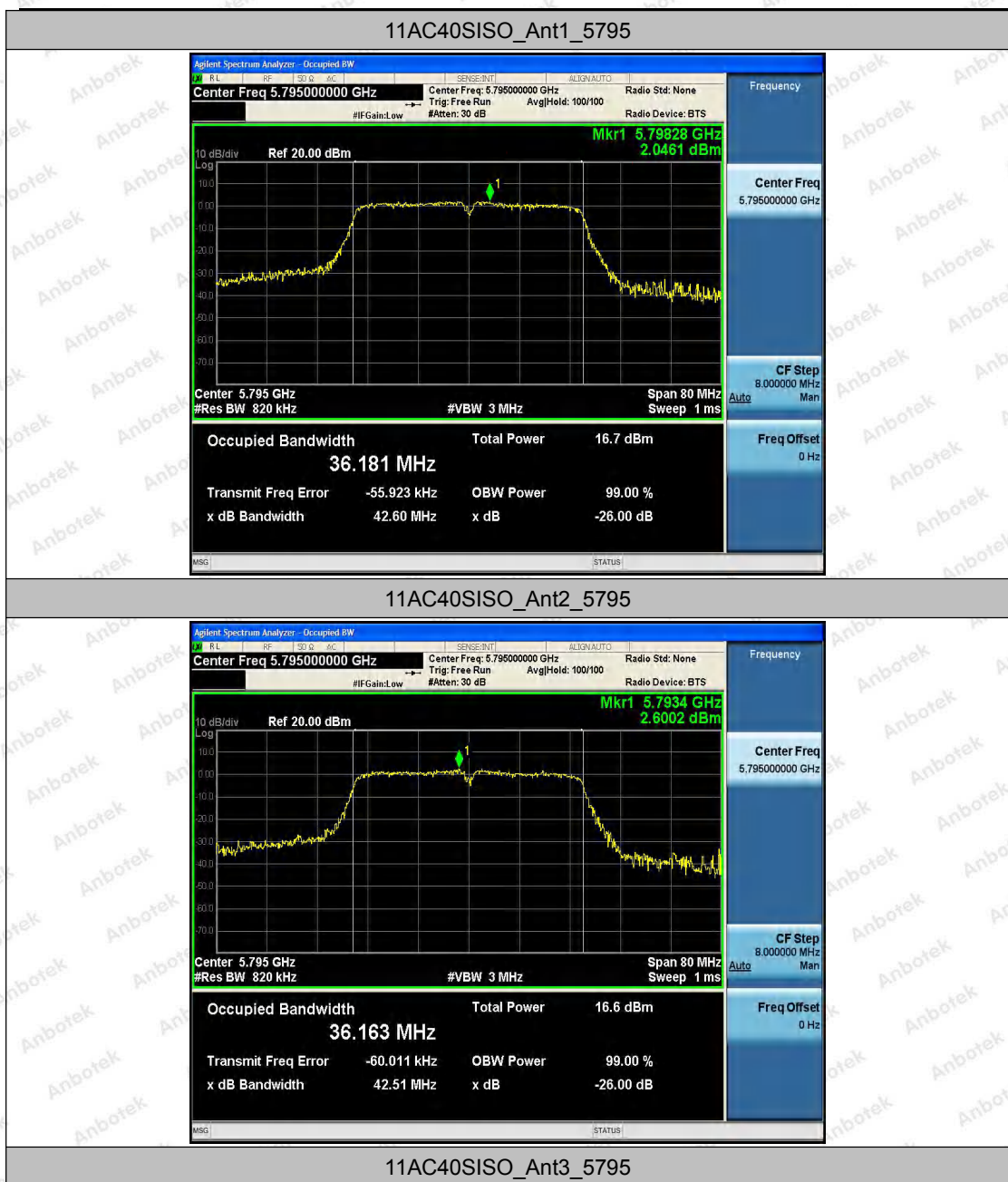


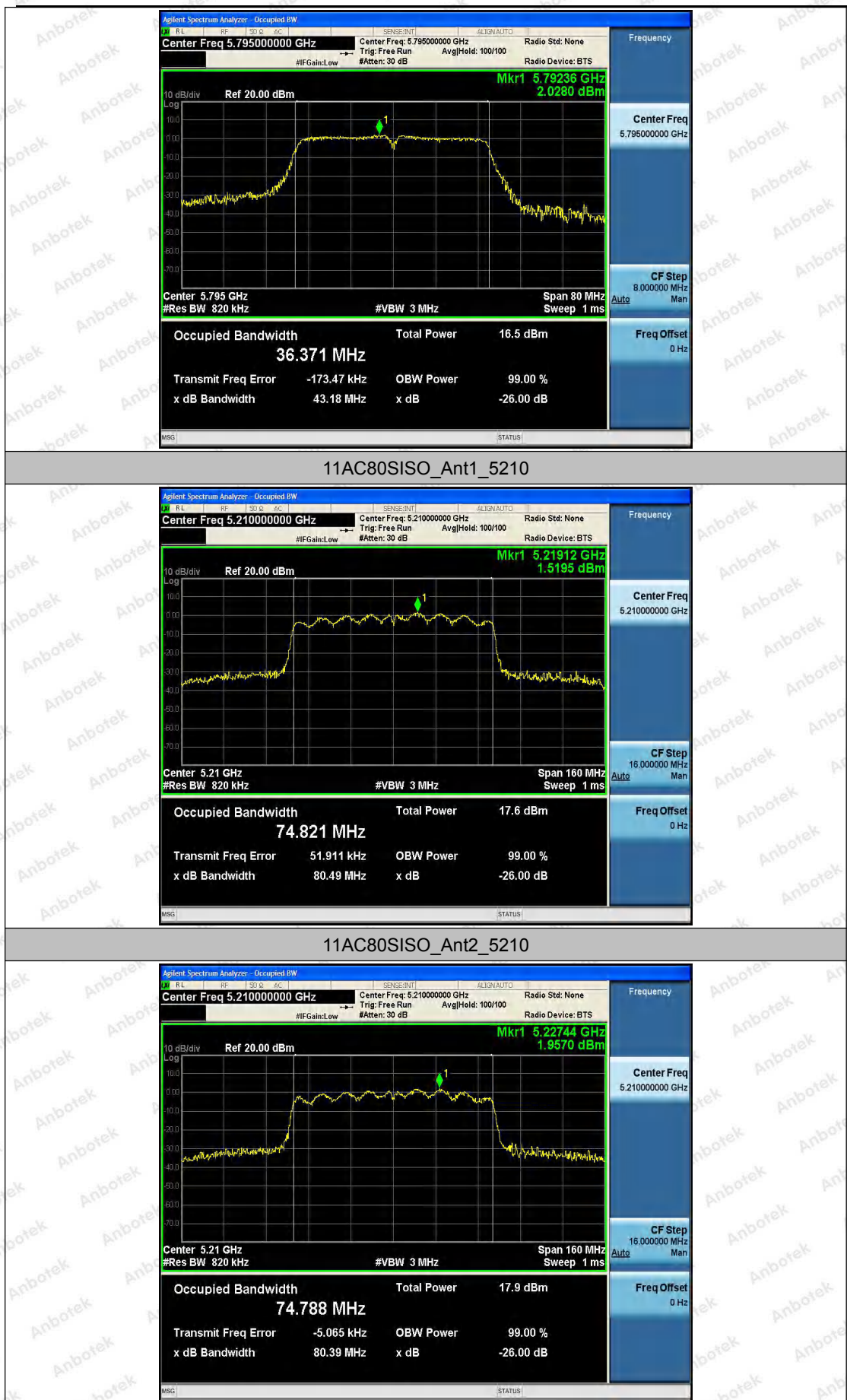
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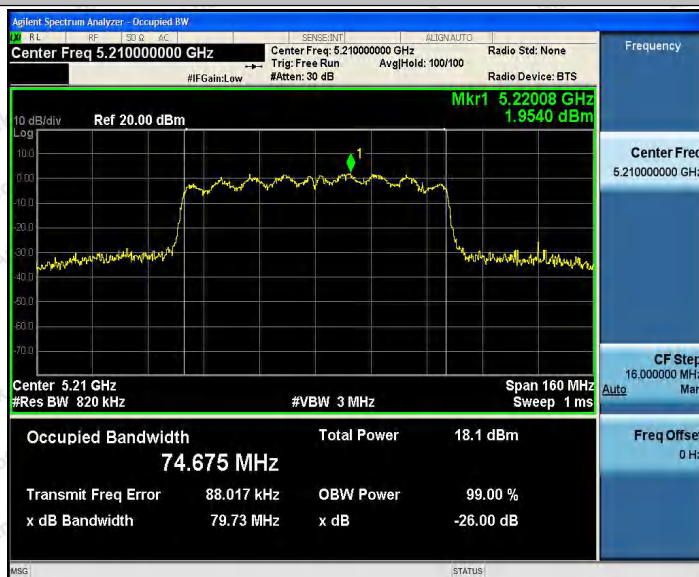


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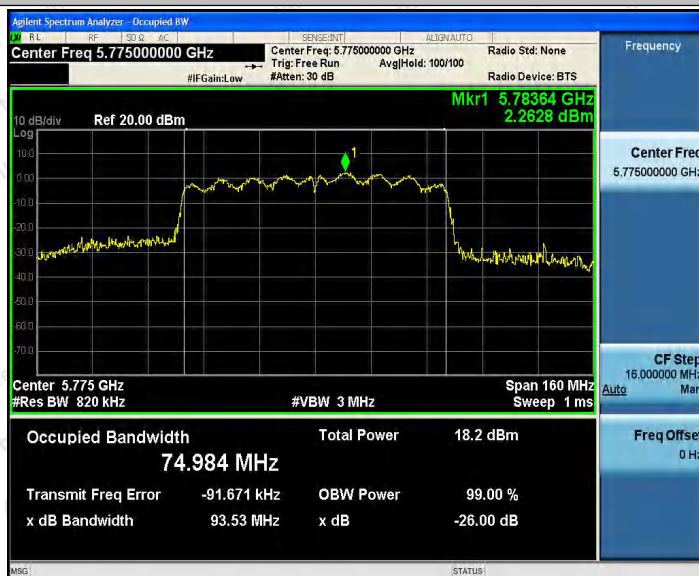
400-003-0500

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11AC80SISO_Ant3_5210



11AC80SISO_Ant1_5775



11AC80SISO_Ant2_5775



Appendix A3: Min emission bandwidth

Test Result

Test Mode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.600	5737.160	5752.760	0.5	PASS
	Ant2	5745	16.400	5736.760	5753.160	0.5	PASS
	Ant3	5745	15.920	5737.000	5752.920	0.5	PASS
	Ant1	5785	15.840	5777.040	5792.880	0.5	PASS
	Ant2	5785	16.120	5777.040	5793.160	0.5	PASS
	Ant3	5785	16.400	5776.760	5793.160	0.5	PASS
	Ant1	5825	16.360	5816.800	5833.160	0.5	PASS
	Ant2	5825	16.160	5817.000	5833.160	0.5	PASS
	Ant3	5825	16.160	5816.760	5832.920	0.5	PASS
11N20 SISO	Ant1	5745	16.360	5736.800	5753.160	0.5	PASS
	Ant2	5745	16.120	5736.400	5752.520	0.5	PASS
	Ant3	5745	16.680	5736.440	5753.120	0.5	PASS
	Ant1	5785	16.760	5776.680	5793.440	0.5	PASS
	Ant2	5785	15.480	5777.400	5792.880	0.5	PASS
	Ant3	5785	15.600	5777.240	5792.840	0.5	PASS
	Ant1	5825	17.080	5816.400	5833.480	0.5	PASS
	Ant2	5825	16.640	5816.760	5833.400	0.5	PASS
	Ant3	5825	15.720	5817.400	5833.120	0.5	PASS
11N40 SISO	Ant1	5755	35.280	5737.320	5772.600	0.5	PASS
	Ant2	5755	35.200	5737.400	5772.600	0.5	PASS
	Ant3	5755	35.280	5737.320	5772.600	0.5	PASS
	Ant1	5795	35.280	5777.320	5812.600	0.5	PASS
	Ant2	5795	35.120	5777.400	5812.520	0.5	PASS
	Ant3	5795	35.200	5777.320	5812.520	0.5	PASS
11AC20 SISO	Ant1	5745	16.840	5736.560	5753.400	0.5	PASS
	Ant2	5745	16.360	5736.760	5753.120	0.5	PASS
	Ant3	5745	15.760	5737.000	5752.760	0.5	PASS
	Ant1	5785	16.600	5776.760	5793.360	0.5	PASS
	Ant2	5785	16.000	5777.160	5793.160	0.5	PASS
	Ant3	5785	16.120	5777.040	5793.160	0.5	PASS
	Ant1	5825	16.600	5816.800	5833.400	0.5	PASS
	Ant2	5825	15.920	5817.200	5833.120	0.5	PASS
	Ant3	5825	16.640	5816.760	5833.400	0.5	PASS
11AC40 SISO	Ant1	5755	35.280	5737.320	5772.600	0.5	PASS
	Ant2	5755	35.440	5737.400	5772.840	0.5	PASS
	Ant3	5755	35.520	5737.320	5772.840	0.5	PASS

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	Ant1	5795	35.280	5777.320	5812.600	0.5	PASS
	Ant2	5795	35.280	5777.320	5812.600	0.5	PASS
	Ant3	5795	34.000	5777.400	5811.400	0.5	PASS
11AC80 SISO	Ant1	5775	72.960	5738.520	5811.480	0.5	PASS
	Ant2	5775	72.960	5738.520	5811.480	0.5	PASS
	Ant3	5775	74.080	5738.520	5812.600	0.5	PASS

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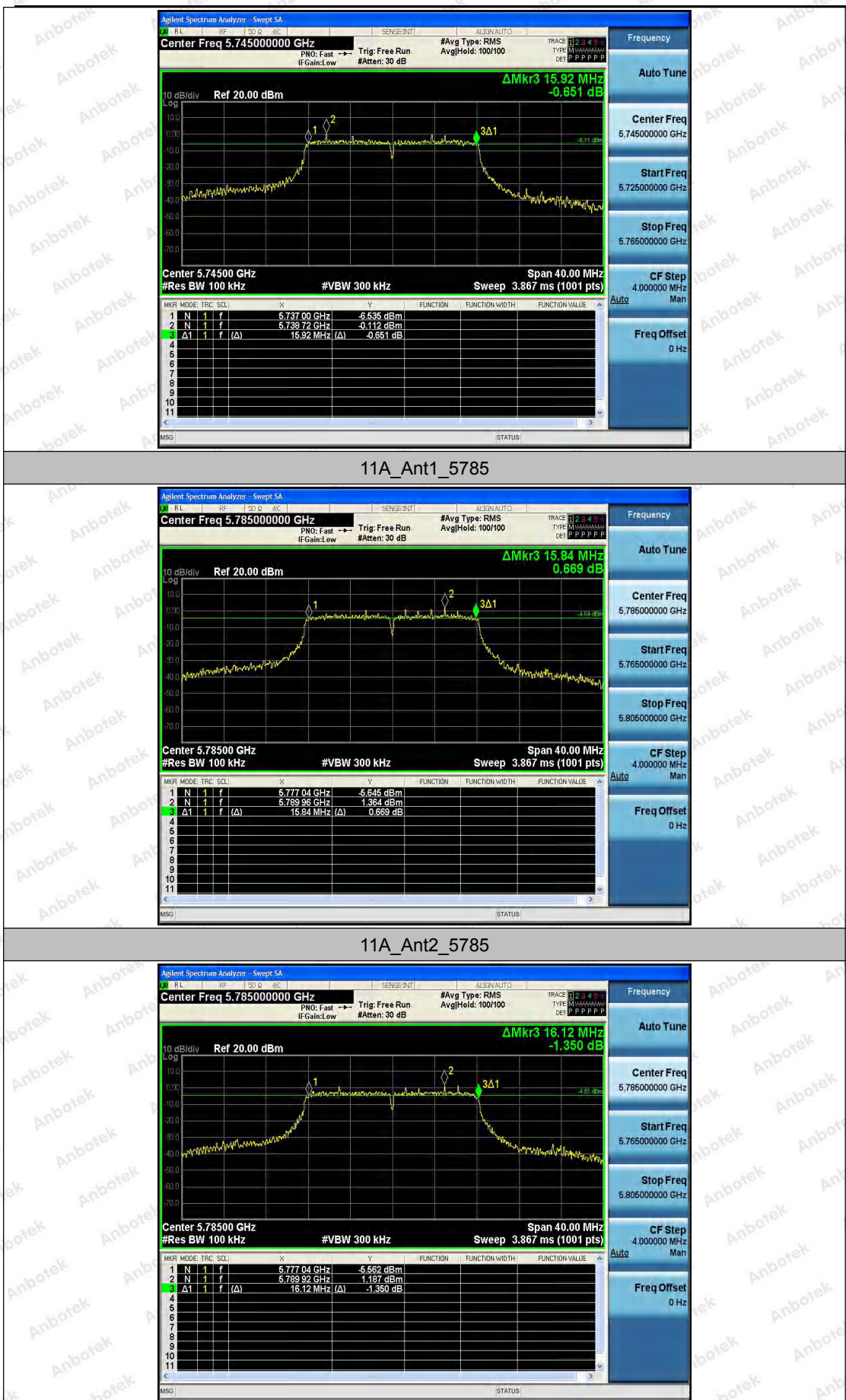
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Test Graphs





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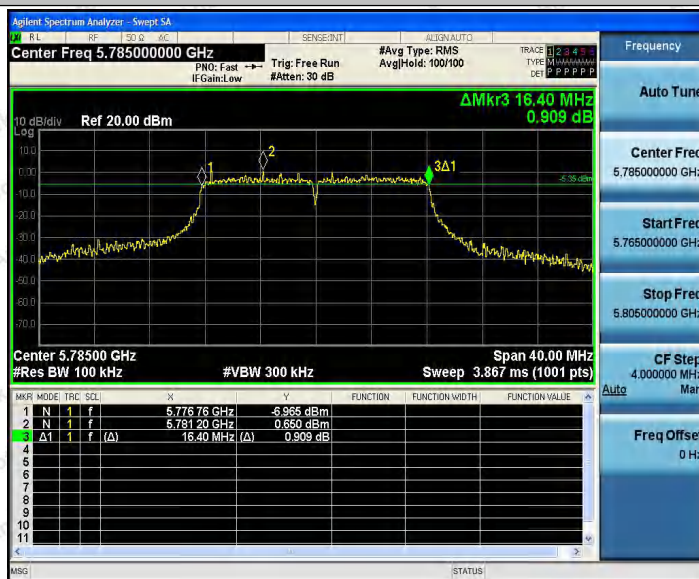


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11A_Ant3_5785



11A_Ant1_5825



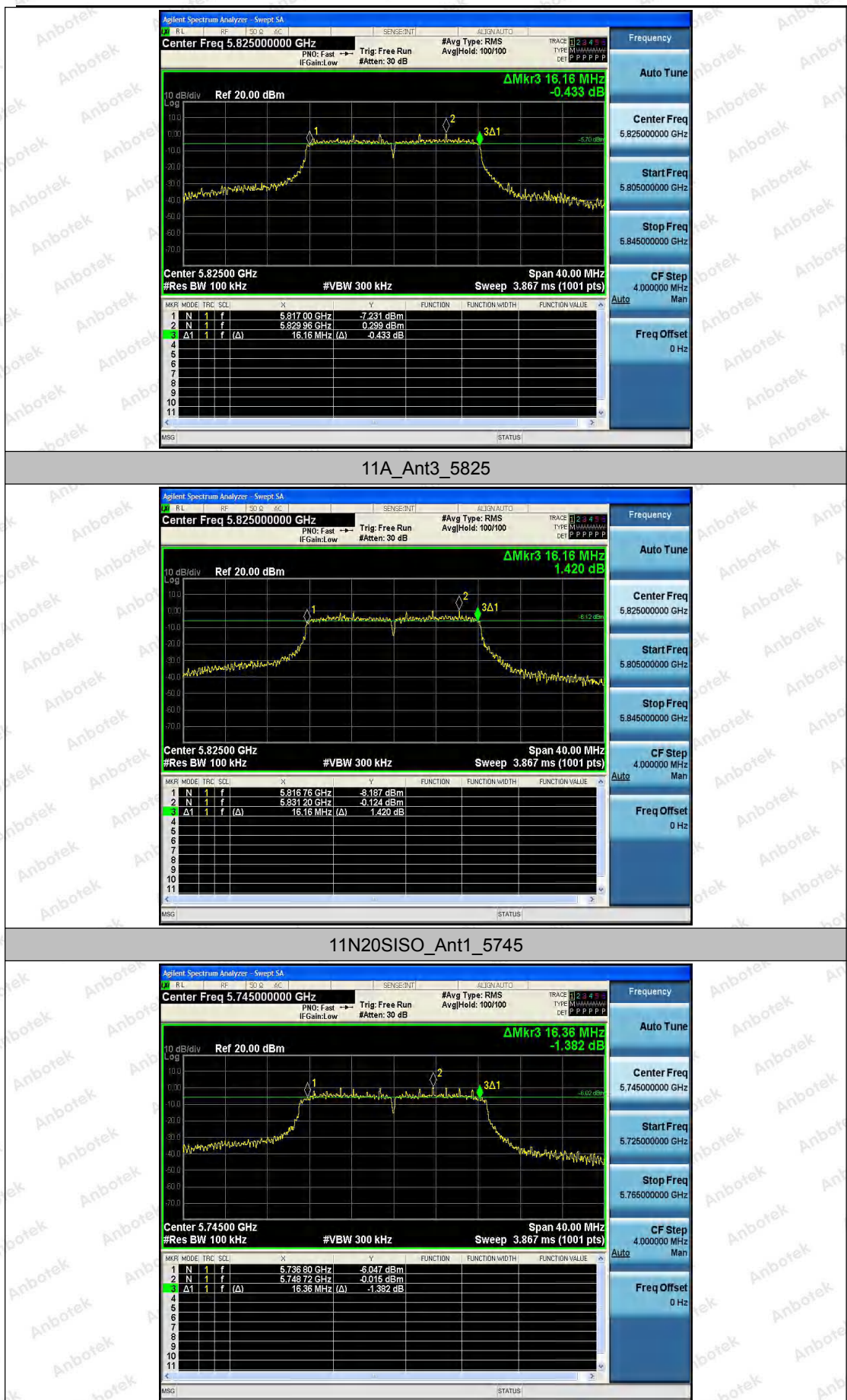
11A_Ant2_5825

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11N20SISO_Ant2_5745



11N20SISO_Ant3_5745



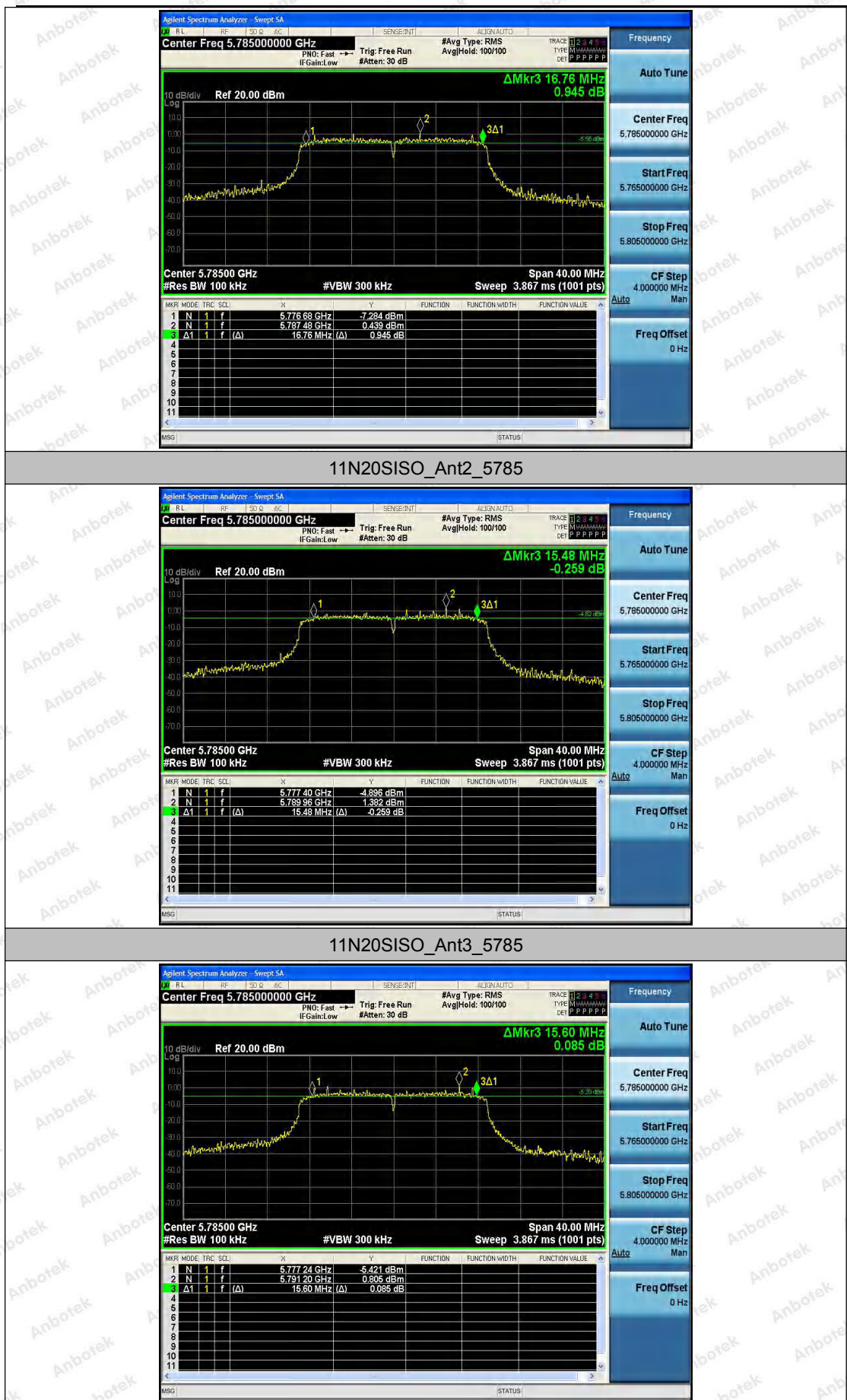
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11N20SISO_Ant1_5825



11N20SISO_Ant2_5825



11N20SISO_Ant3_5825

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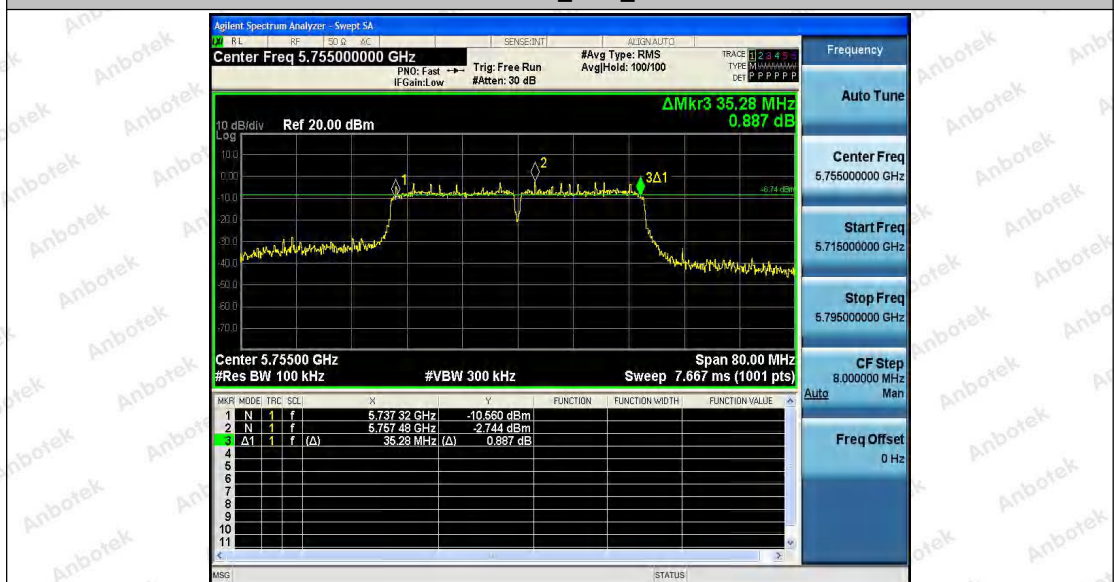
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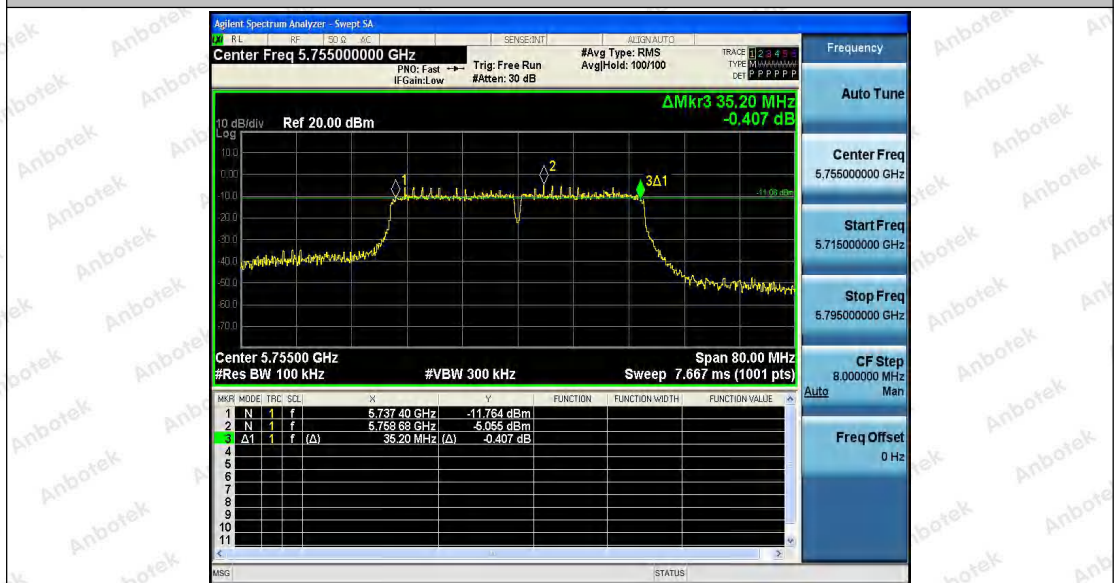
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11N40SISO_Ant1_5755



11N40SISO_Ant2_5755



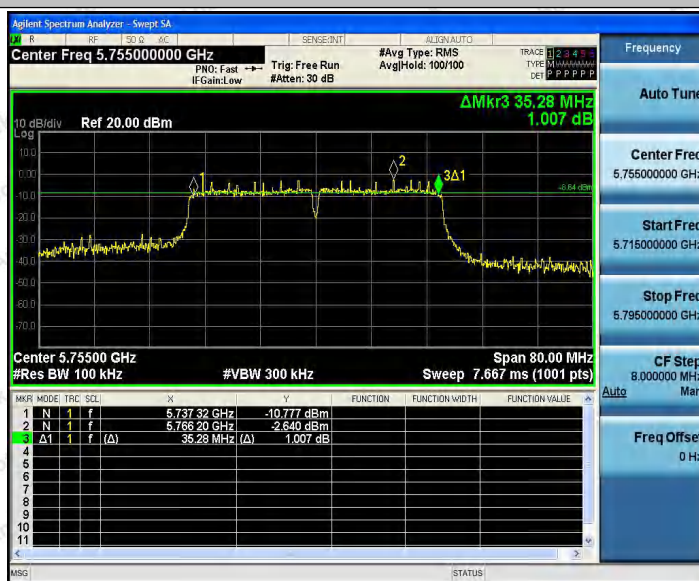
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11N40SISO_Ant3_5755



11N40SISO_Ant1_5795



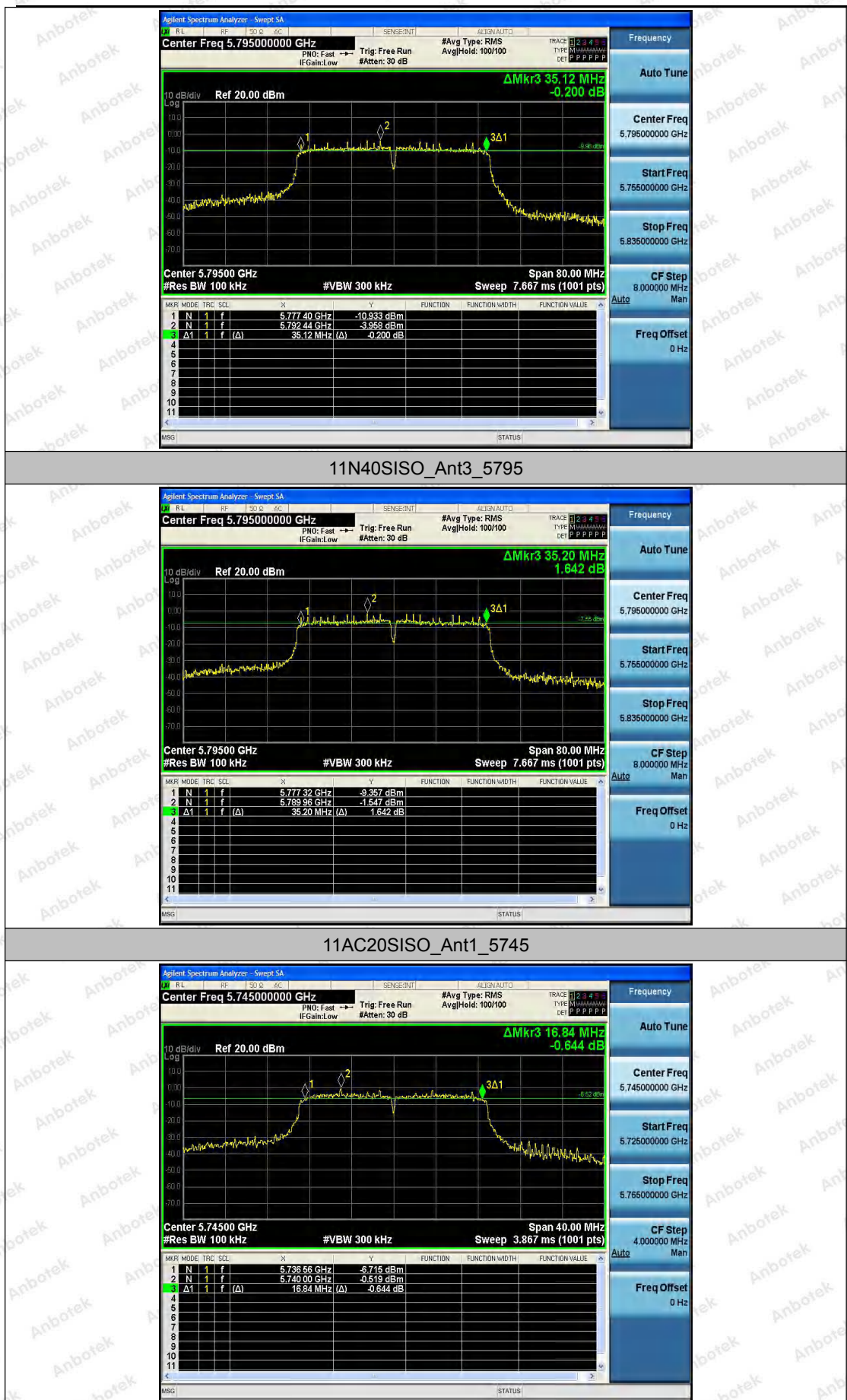
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11AC20SISO_Ant2_5745



11AC20SISO_Ant3_5745



11AC20SISO_Ant1_5785

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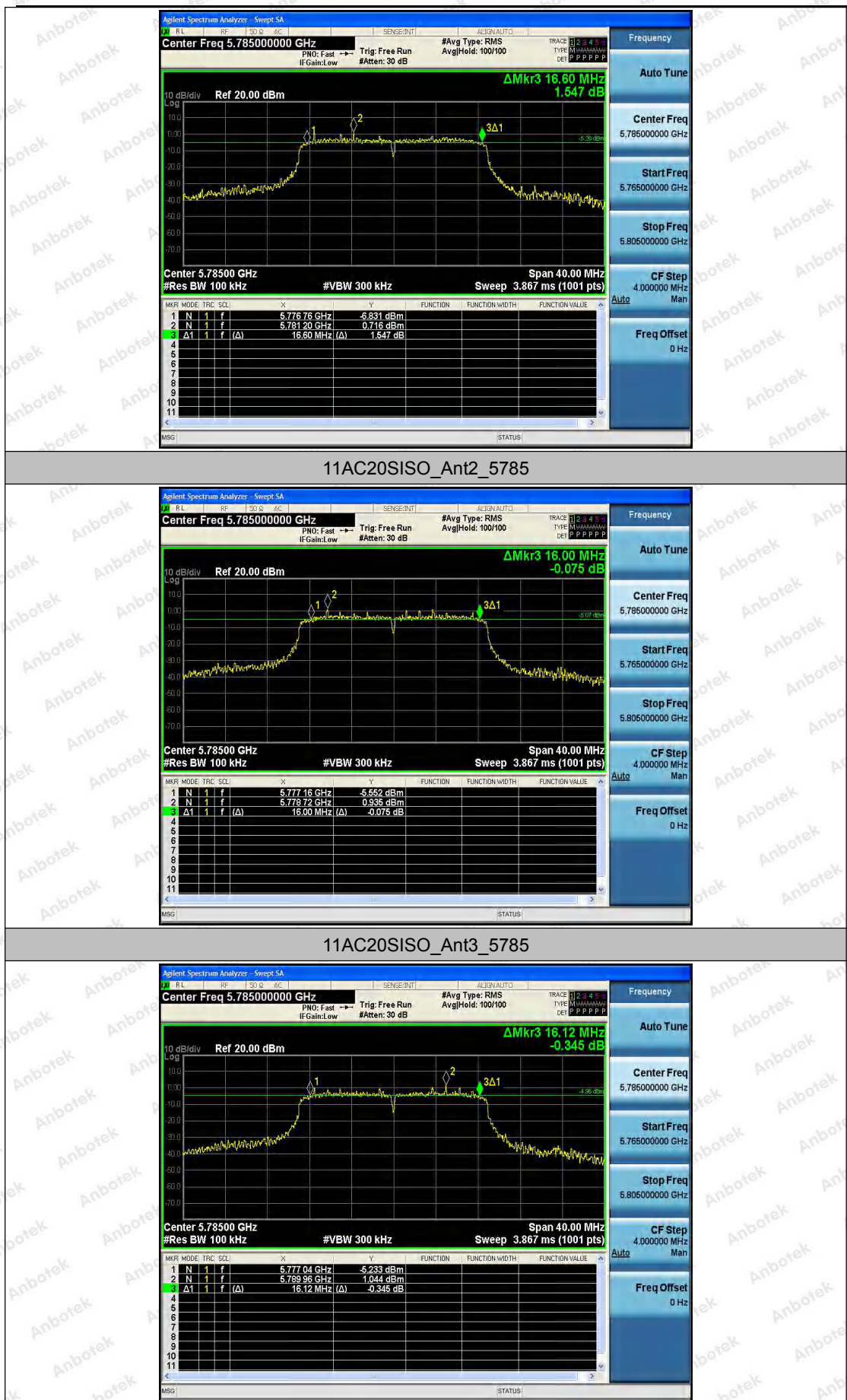
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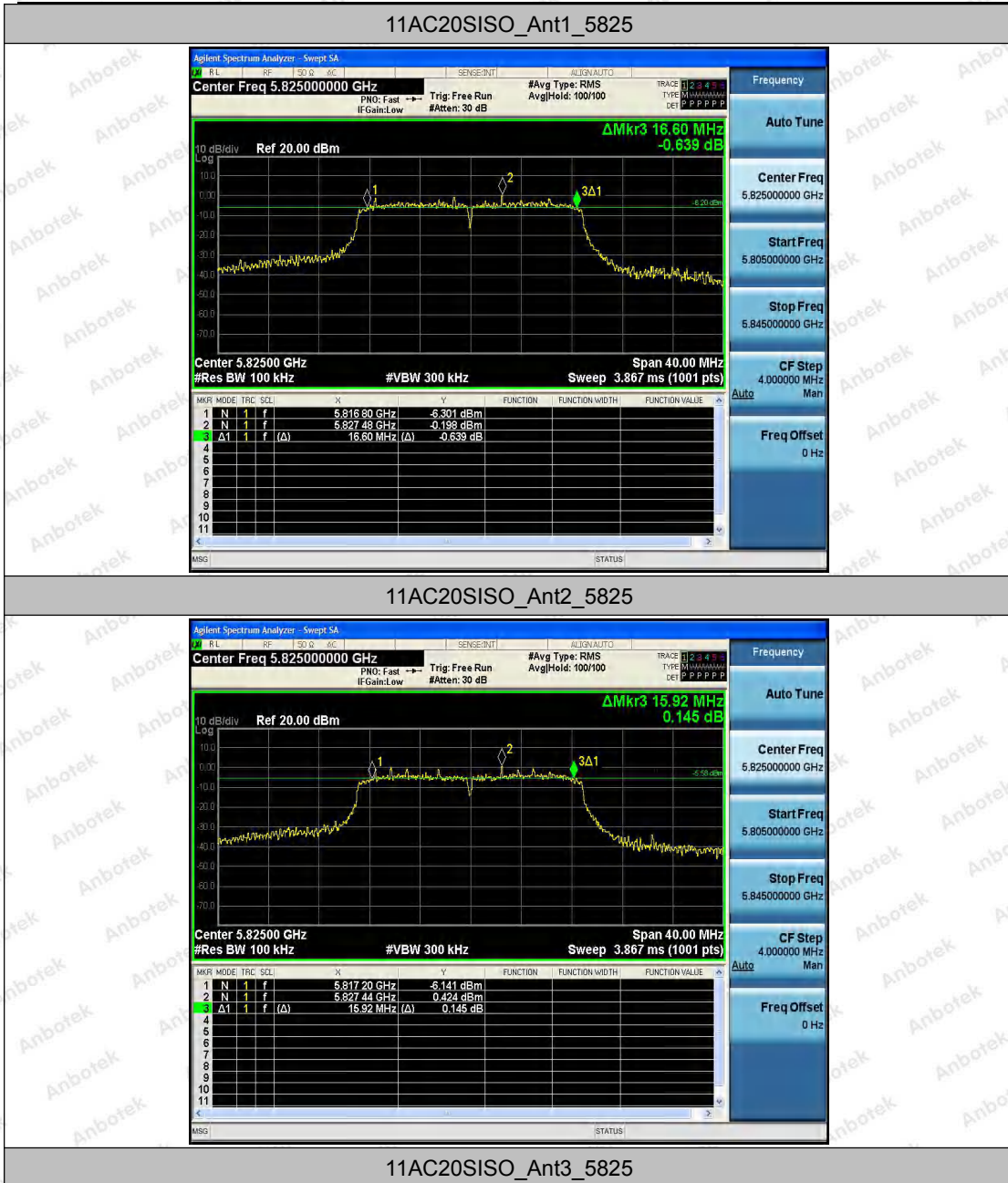


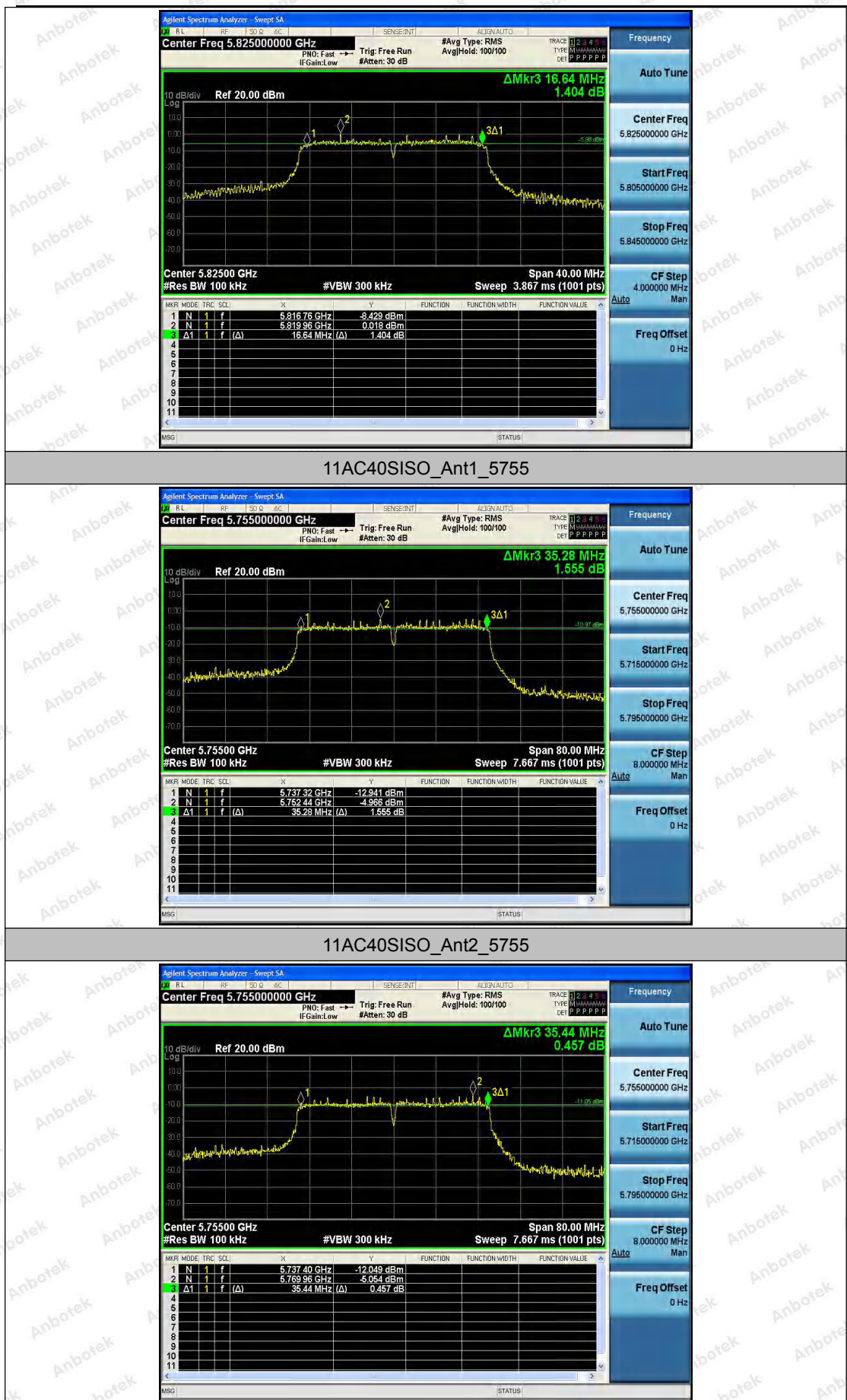
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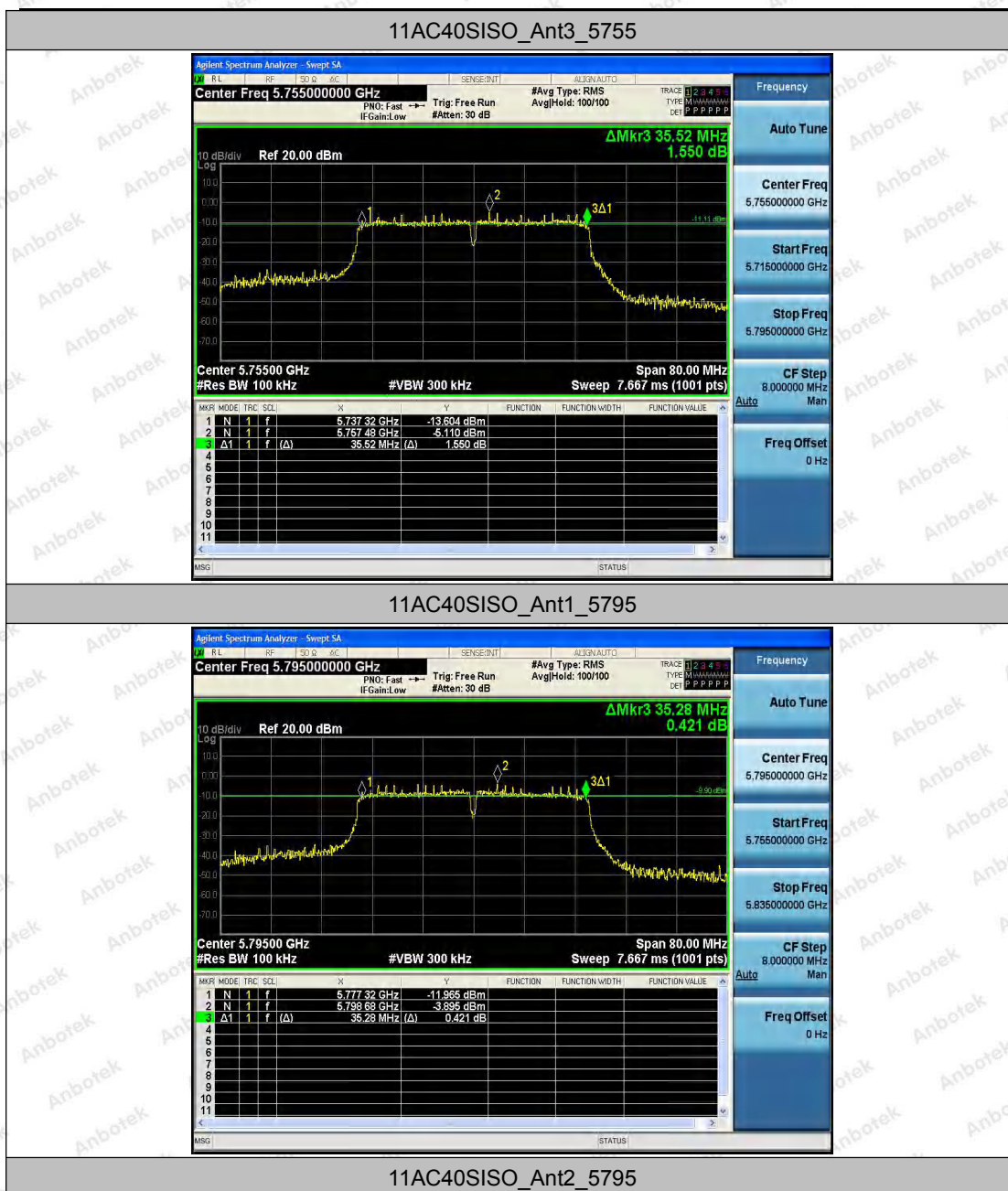


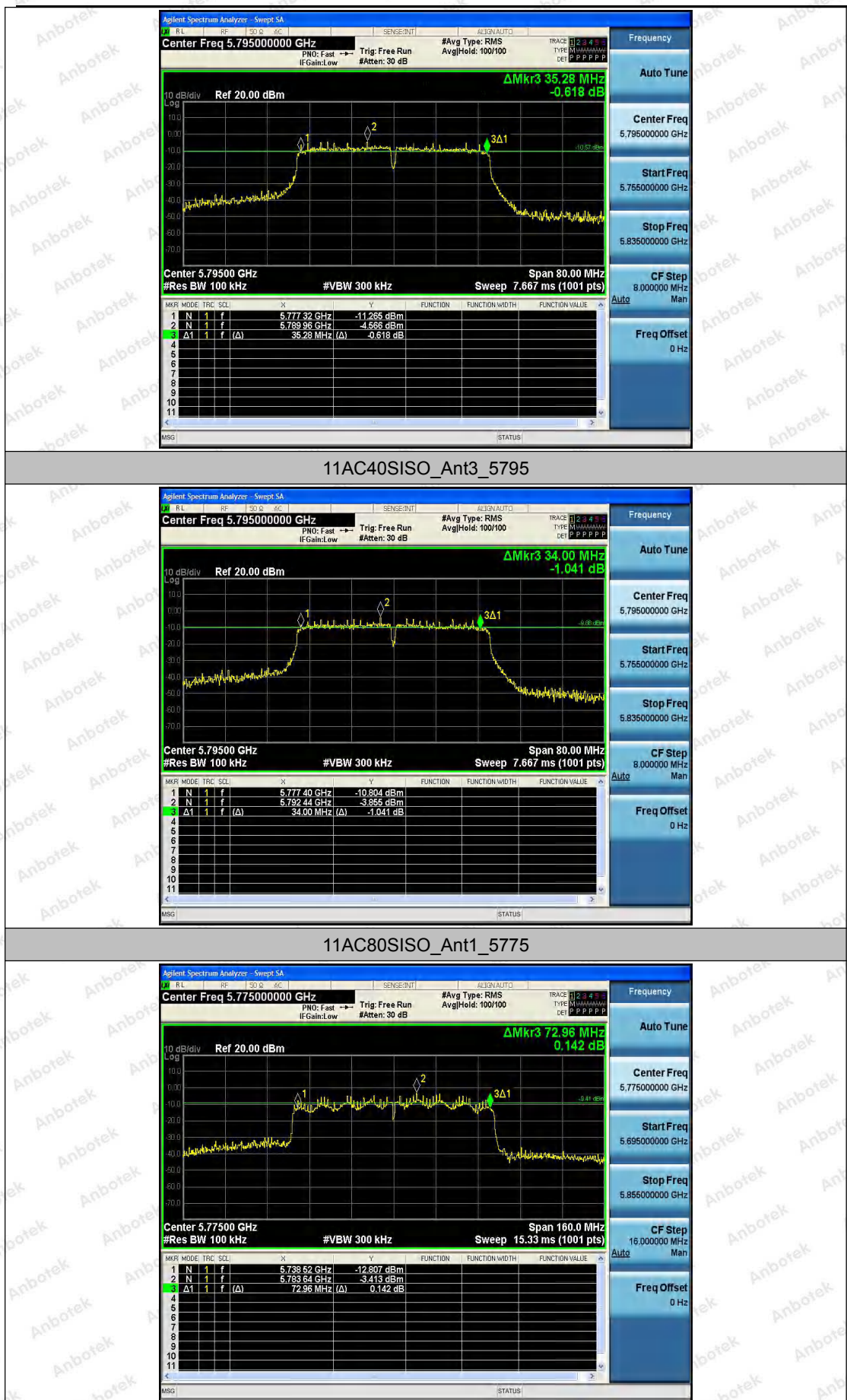
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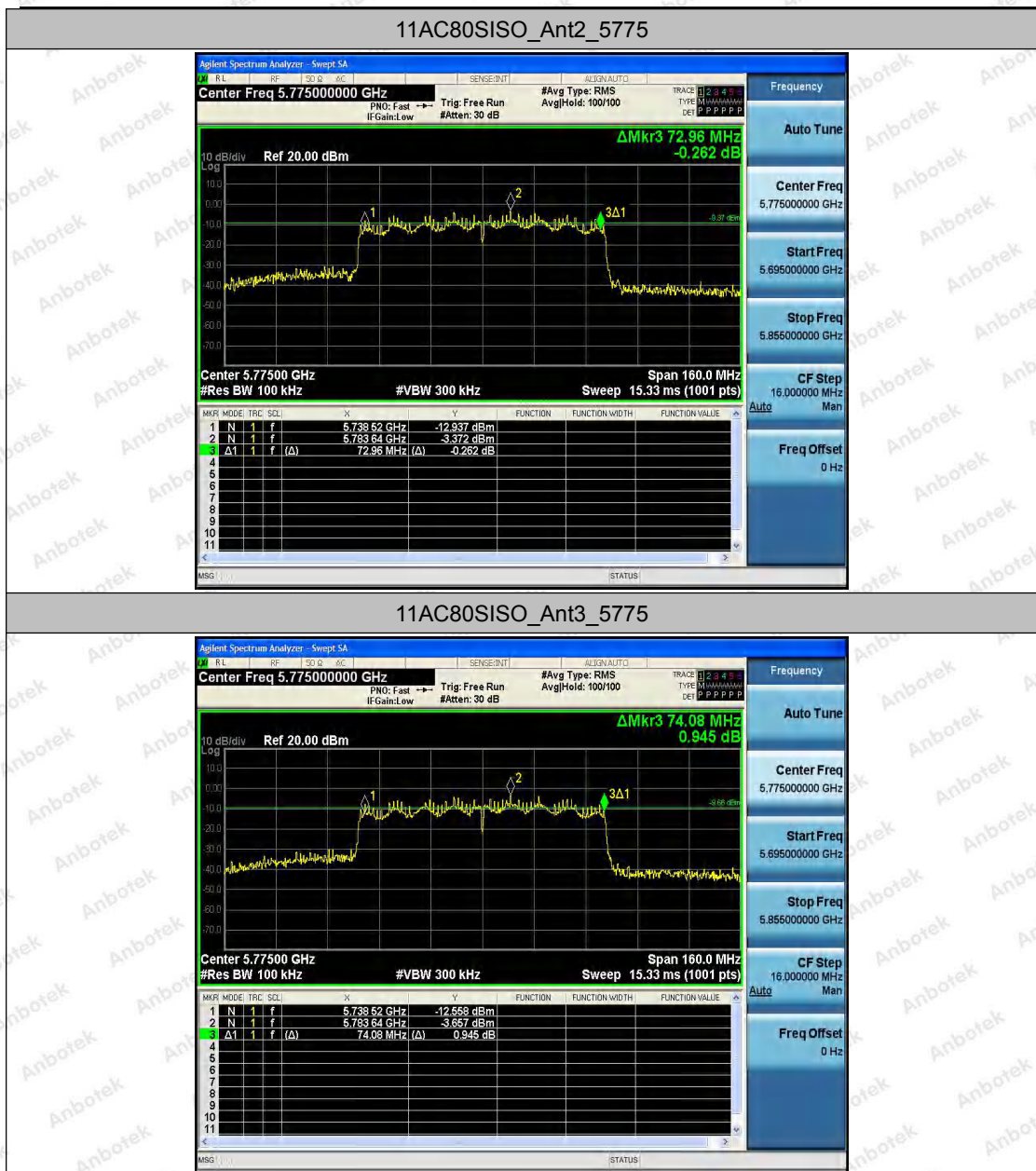


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Appendix B: Maximum conducted output power

Test Result(5.2G WIFI)

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	7.27	≤23.98	PASS
	Ant2	5180	7.09	≤23.98	PASS
	Ant3	5180	7.10	≤23.98	PASS
	Ant1	5200	7.16	≤23.98	PASS
	Ant2	5200	7.18	≤23.98	PASS
	Ant3	5200	7.11	≤23.98	PASS
	Ant1	5240	6.73	≤23.98	PASS
	Ant2	5240	6.58	≤23.98	PASS
	Ant3	5240	6.43	≤23.98	PASS
11N20SISO	Ant1	5180	7.82	≤23.98	PASS
	Ant2	5180	7.77	≤23.98	PASS
	Ant3	5180	7.76	≤23.98	PASS
	Ant1	5200	7.82	≤23.98	PASS
	Ant2	5200	7.69	≤23.98	PASS
	Ant3	5200	7.74	≤23.98	PASS
	Ant1	5240	7.56	≤23.98	PASS
	Ant2	5240	7.53	≤23.98	PASS
	Ant3	5240	7.40	≤23.98	PASS
11N40SISO	Ant1	5190	6.91	≤23.98	PASS
	Ant2	5190	6.77	≤23.98	PASS
	Ant3	5190	6.84	≤23.98	PASS
	Ant1	5230	6.90	≤23.98	PASS
	Ant2	5230	6.42	≤23.98	PASS
	Ant3	5230	6.97	≤23.98	PASS
11AC20SISO	Ant1	5180	7.87	≤23.98	PASS
	Ant2	5180	7.85	≤23.98	PASS
	Ant3	5180	7.50	≤23.98	PASS
	Ant1	5200	7.75	≤23.98	PASS
	Ant2	5200	7.69	≤23.98	PASS
	Ant3	5200	7.50	≤23.98	PASS
	Ant1	5240	7.37	≤23.98	PASS
	Ant2	5240	7.49	≤23.98	PASS
	Ant3	5240	7.55	≤23.98	PASS
11AC40SISO	Ant1	5190	7.85	≤23.98	PASS
	Ant2	5190	7.60	≤23.98	PASS
	Ant3	5190	7.86	≤23.98	PASS
	Ant1	5230	6.26	≤23.98	PASS

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11AC80SISO	Ant2	5230	6.85	≤23.98	PASS
	Ant3	5230	6.59	≤23.98	PASS
	Ant1	5210	7.03	≤23.98	PASS
11AC80SISO	Ant2	5210	7.17	≤23.98	PASS
	Ant3	5210	7.06	≤23.98	PASS

Test Result(5.8G WIFI)

Test Mode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5745	7.13	≤30	PASS
	Ant2	5745	7.09	≤30	PASS
	Ant3	5745	7.06	≤30	PASS
	Ant1	5785	6.96	≤30	PASS
	Ant2	5785	6.25	≤30	PASS
	Ant3	5785	6.77	≤30	PASS
	Ant1	5825	7.76	≤30	PASS
	Ant2	5825	7.11	≤30	PASS
	Ant3	5825	7.00	≤30	PASS
11N20SISO	Ant1	5745	7.67	≤30	PASS
	Ant2	5745	7.78	≤30	PASS
	Ant3	5745	7.71	≤30	PASS
	Ant1	5785	7.39	≤30	PASS
	Ant2	5785	7.45	≤30	PASS
	Ant3	5785	6.67	≤30	PASS
	Ant1	5825	7.05	≤30	PASS
	Ant2	5825	7.20	≤30	PASS
	Ant3	5825	7.50	≤30	PASS
11N40SISO	Ant1	5755	6.97	≤30	PASS
	Ant2	5755	7.16	≤30	PASS
	Ant3	5755	7.02	≤30	PASS
	Ant1	5795	7.07	≤30	PASS
	Ant2	5795	7.13	≤30	PASS
	Ant3	5795	7.35	≤30	PASS
11AC20SISO	Ant1	5745	7.61	≤30	PASS
	Ant2	5745	7.68	≤30	PASS
	Ant3	5745	7.42	≤30	PASS
	Ant1	5785	7.43	≤30	PASS
	Ant2	5785	7.56	≤30	PASS
	Ant3	5785	7.52	≤30	PASS
	Ant1	5825	7.10	≤30	PASS
	Ant2	5825	7.22	≤30	PASS
	Ant3	5825	7.46	≤30	PASS
11AC40SISO	Ant1	5755	7.03	≤30	PASS

	Ant2	5755	7.69	≤30	PASS
	Ant3	5755	7.09	≤30	PASS
	Ant1	5795	7.11	≤30	PASS
	Ant2	5795	7.22	≤30	PASS
	Ant3	5795	7.41	≤30	PASS
11AC80SISO	Ant1	5775	7.60	≤30	PASS
	Ant2	5775	7.57	≤30	PASS
	Ant3	5775	6.85	≤30	PASS

Test Result(MIMO 5.2G WIFI):

Test Mode	Channel	Result[dBm]	Limit[dBm]	Verdict
11N20SISO	5180	12.55	≤17.21	PASS
	5200	12.52	≤17.21	PASS
	5240	12.27	≤17.21	PASS
11N40SISO	5190	11.61	≤17.21	PASS
	5230	11.54	≤17.21	PASS
11AC20SISO	5180	12.51	≤17.21	PASS
	5200	12.42	≤17.21	PASS
	5240	12.24	≤17.21	PASS
11AC40SISO	5190	12.54	≤17.21	PASS
	5230	11.34	≤17.21	PASS
11AC80SISO	5210	11.86	≤17.21	PASS

Test Result(MIMO 5.8G WIFI):

Test Mode	Channel	Result[dBm]	Limit[dBm]	Verdict
11N20SISO	5745	12.49	≤23.23	PASS
	5785	11.96	≤23.23	PASS
	5825	12.03	≤23.23	PASS
11N40SISO	5755	11.82	≤23.23	PASS
	5795	11.96	≤23.23	PASS
11AC20SISO	5745	12.34	≤23.23	PASS
	5785	12.27	≤23.23	PASS
	5825	12.03	≤23.23	PASS
11AC40SISO	5755	12.05	≤23.23	PASS
	5795	12.02	≤23.23	PASS
11AC80SISO	5775	12.12	≤23.23	PASS

Note:

1. As Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / N_{ANT}]$ dBi=12.77>6dBi,
So 5.2G limit=23.98-(12.77-6.00)=17.21dBm.
So 5.8G limit=30-(12.77-6.00)=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	-1.32	≤11	PASS
	Ant2	5180	-1.37	≤11	PASS
	Ant3	5180	-1.43	≤11	PASS
	Ant1	5200	-1.27	≤11	PASS
	Ant2	5200	-0.96	≤11	PASS
	Ant3	5200	-1.21	≤11	PASS
	Ant1	5240	-2.12	≤11	PASS
	Ant2	5240	-1.98	≤11	PASS
	Ant3	5240	-2.22	≤11	PASS
11N20SISO	Ant1	5180	-1.74	≤11	PASS
	Ant2	5180	-1.26	≤11	PASS
	Ant3	5180	-1.69	≤11	PASS
	Ant1	5200	-1.03	≤11	PASS
	Ant2	5200	-1.66	≤11	PASS
	Ant3	5200	-1.64	≤11	PASS
	Ant1	5240	-2.53	≤11	PASS
	Ant2	5240	-2.13	≤11	PASS
	Ant3	5240	-2.89	≤11	PASS
11N40SISO	Ant1	5190	-5.8	≤11	PASS
	Ant2	5190	-5.7	≤11	PASS
	Ant3	5190	-5.35	≤11	PASS
	Ant1	5230	-5.12	≤11	PASS
	Ant2	5230	-4.5	≤11	PASS
	Ant3	5230	-5.31	≤11	PASS
11AC20SISO	Ant1	5180	-1.78	≤11	PASS
	Ant2	5180	-2.04	≤11	PASS
	Ant3	5180	-1.99	≤11	PASS
	Ant1	5200	-1.94	≤11	PASS
	Ant2	5200	-1.65	≤11	PASS
	Ant3	5200	-1.58	≤11	PASS
	Ant1	5240	-2.28	≤11	PASS
	Ant2	5240	-2.15	≤11	PASS
	Ant3	5240	-1.81	≤11	PASS
11AC40SISO	Ant1	5190	-5.28	≤11	PASS
	Ant2	5190	-5.24	≤11	PASS
	Ant3	5190	-5.75	≤11	PASS
	Ant1	5230	-4.56	≤11	PASS

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11AC80SISO	Ant2	5230	-5.98	≤11	PASS
	Ant3	5230	-5.65	≤11	PASS
	Ant1	5210	-8.26	≤11	PASS
11AC80SISO	Ant2	5210	-8.24	≤11	PASS
	Ant3	5210	-8.01	≤11	PASS

Test Result(5.8G WIFI)

Test Mode	Antenna	Channel	Result [dBm/500KHz]	Limit[dBm/500KHz]	Verdict
11A	Ant1	5745	-4.03	≤30	PASS
	Ant2	5745	-3.54	≤30	PASS
	Ant3	5745	-3.47	≤30	PASS
	Ant1	5785	-4.94	≤30	PASS
	Ant2	5785	-4.11	≤30	PASS
	Ant3	5785	-4.98	≤30	PASS
	Ant1	5825	-2.6	≤30	PASS
	Ant2	5825	-3.04	≤30	PASS
	Ant3	5825	-2.39	≤30	PASS
11N20SISO	Ant1	5745	-4.55	≤30	PASS
	Ant2	5745	-4.44	≤30	PASS
	Ant3	5745	-4.01	≤30	PASS
	Ant1	5785	-4.1	≤30	PASS
	Ant2	5785	-3.92	≤30	PASS
	Ant3	5785	-4.36	≤30	PASS
	Ant1	5825	-3.27	≤30	PASS
	Ant2	5825	-3.81	≤30	PASS
	Ant3	5825	-3.27	≤30	PASS
11N40SISO	Ant1	5755	-8.01	≤30	PASS
	Ant2	5755	-8.6	≤30	PASS
	Ant3	5755	-8.06	≤30	PASS
	Ant1	5795	-8.55	≤30	PASS
	Ant2	5795	-8.3	≤30	PASS
	Ant3	5795	-8.71	≤30	PASS
11AC20SISO	Ant1	5745	-3.22	≤30	PASS
	Ant2	5745	-2.42	≤30	PASS
	Ant3	5745	-4.37	≤30	PASS
	Ant1	5785	-4.43	≤30	PASS
	Ant2	5785	-4.59	≤30	PASS
	Ant3	5785	-4	≤30	PASS
	Ant1	5825	-2.39	≤30	PASS
	Ant2	5825	-4.15	≤30	PASS
	Ant3	5825	-2.86	≤30	PASS

11AC40SISO	Ant1	5755	-6.87	≤30	PASS
	Ant2	5755	-9.38	≤30	PASS
	Ant3	5755	-8.08	≤30	PASS
	Ant1	5795	-7.64	≤30	PASS
	Ant2	5795	-8.21	≤30	PASS
	Ant3	5795	-8.23	≤30	PASS
11AC80SISO	Ant1	5775	-12.01	≤30	PASS
	Ant2	5775	-10.74	≤30	PASS
	Ant3	5775	-11.86	≤30	PASS

Test Result(MIMO 5.2G WIFI)

Test Mode	Channel	Result[dBm]	Limit[dBm]	Verdict
11N20SISO	5180	3.21	≤4.23	PASS
	5200	3.34	≤4.23	PASS
	5240	2.27	≤4.23	PASS
11N40SISO	5190	-0.84	≤4.23	PASS
	5230	-0.19	≤4.23	PASS
11AC20SISO	5180	2.84	≤4.23	PASS
	5200	3.05	≤4.23	PASS
	5240	2.70	≤4.23	PASS
11AC40SISO	5190	-0.65	≤4.23	PASS
	5230	-0.58	≤4.23	PASS
11AC80SISO	5210	-3.40	≤4.23	PASS

Test Result(MIMO 5.8G WIFI)

Test Mode	Channel	Result[dBm/500KHz]	Limit[dBm]	Verdict
11N20SISO	5745	0.44	≤23.23	PASS
	5785	0.65	≤23.23	PASS
	5825	1.33	≤23.23	PASS
11N40SISO	5755	-3.44	≤23.23	PASS
	5795	-3.75	≤23.23	PASS
11AC20SISO	5745	1.51	≤23.23	PASS
	5785	0.44	≤23.23	PASS
	5825	1.70	≤23.23	PASS
11AC40SISO	5755	-3.22	≤23.23	PASS
	5795	-3.25	≤23.23	PASS
11AC80SISO	5775	-6.73	≤23.23	PASS

Note:

- As Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / N_{ANT}]$ dBi=12.77>6dBi,
So 5.2G limit=11-(12.77-6.00)=4.23dBm.
So 5.8G limit=30-(12.77-6.00)=23.23dBm.

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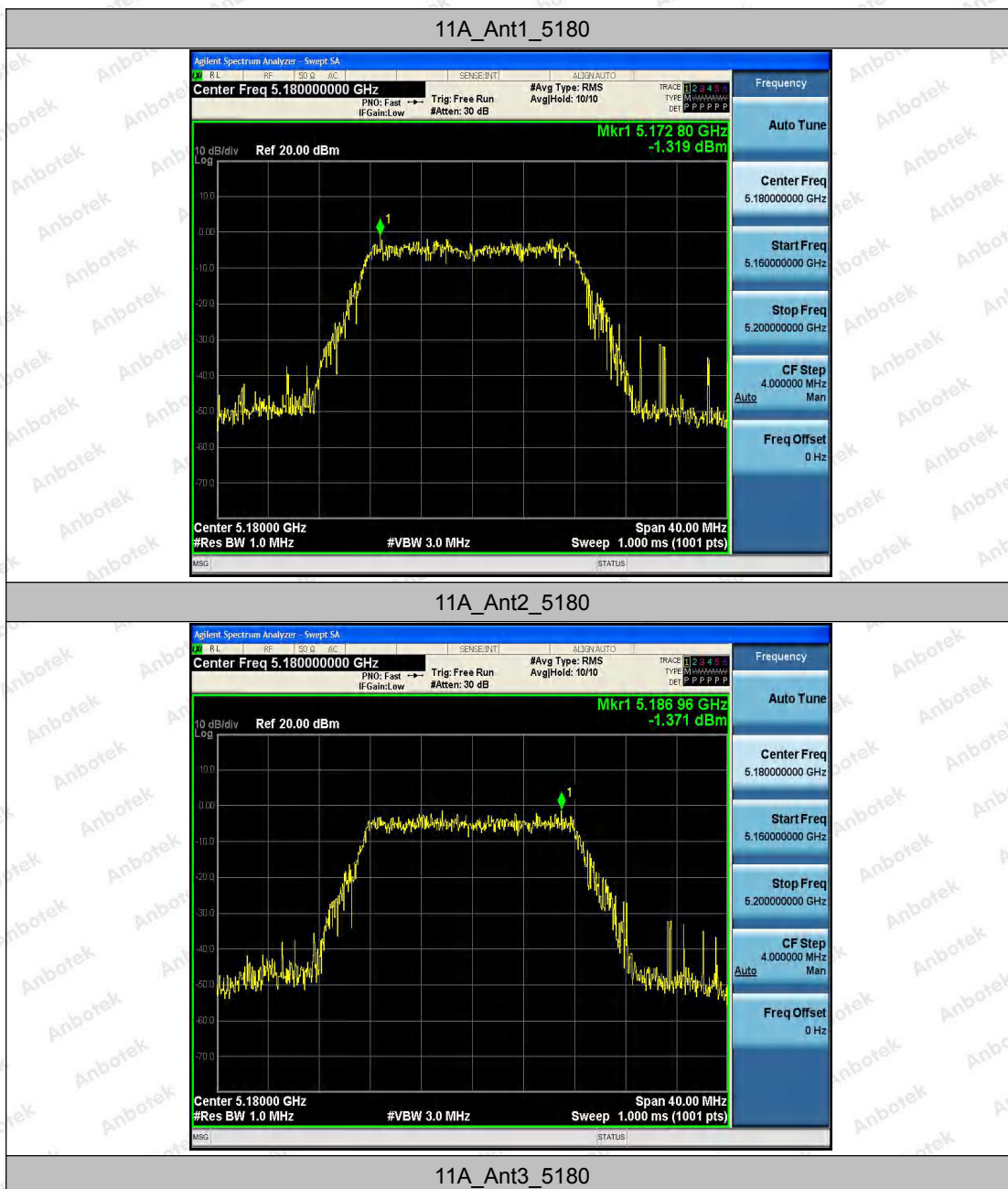


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Test Graphs

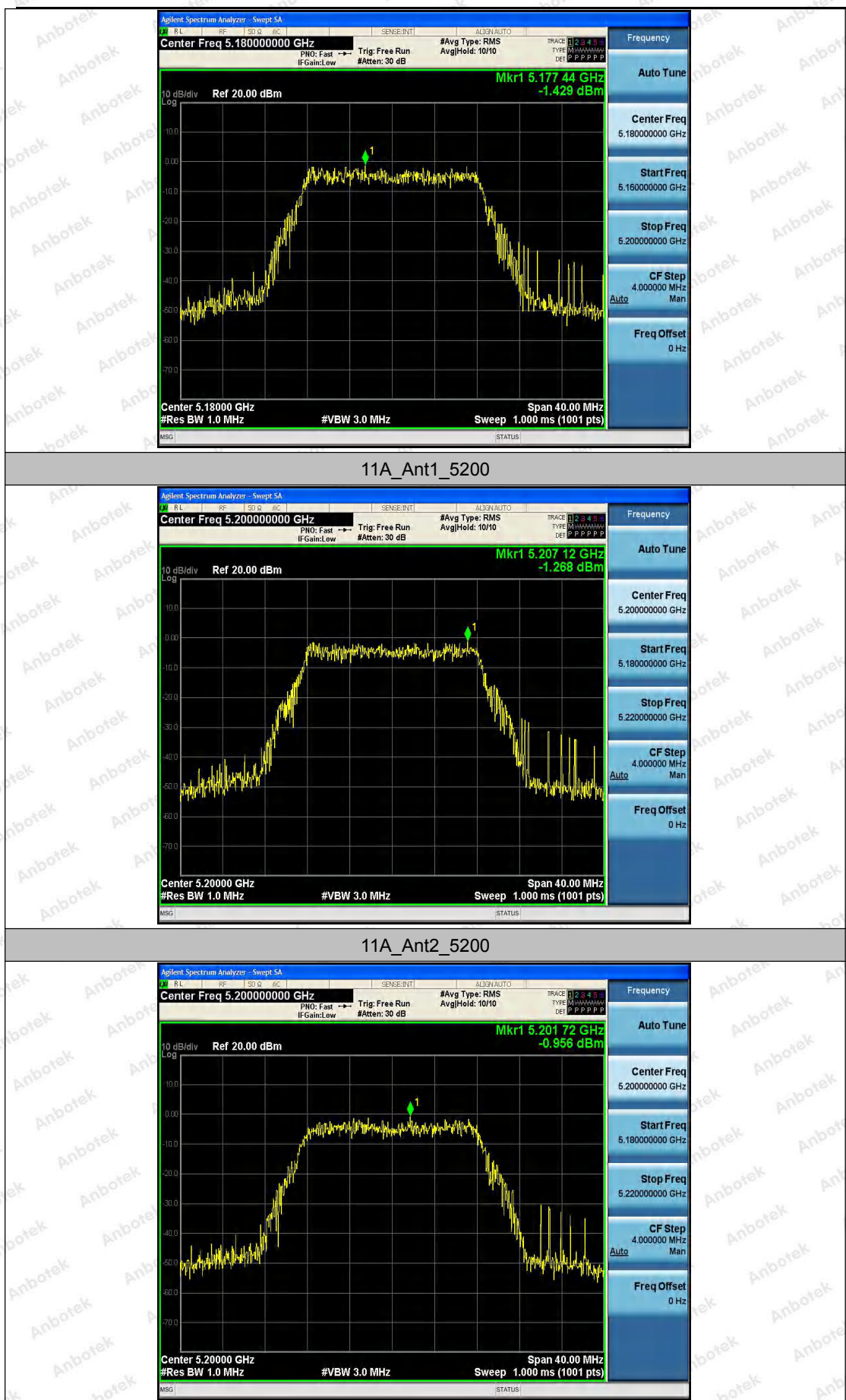


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11A_Ant3_5200



11A_Ant1_5240



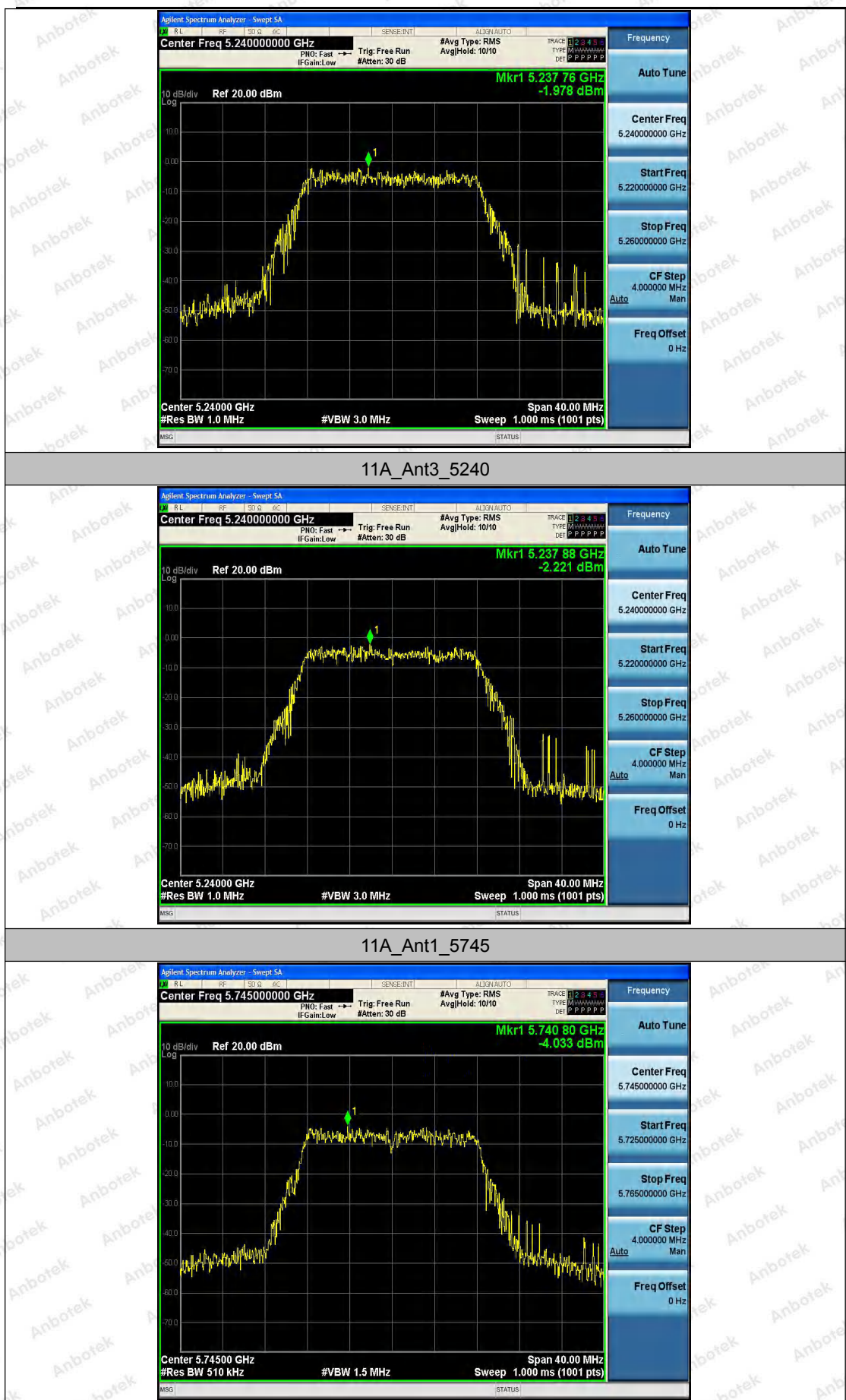
11A_Ant2_5240

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11A_Ant2_5745



11A_Ant3_5745



11A_Ant1_5785

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