

Appendix Test Data

Report No.:	18220WC10196002	Test Date:	2021.9.14
Test Engineer:	<i>Jony He</i>	Auditor:	<i>Edward Pan</i>
Temperature:	24.3°C	Relative Humidity:	57 %
Pressure:	1012 hPa		

Appendix A1: Emission Bandwidth

Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.520	5169.760	5190.280	---	PASS
		5200	20.120	5189.880	5210.000	---	PASS
		5240	20.160	5229.920	5250.080	---	PASS
		5745	20.240	5734.800	5755.040	---	PASS
		5785	21.840	5773.600	5795.440	---	PASS
		5825	27.840	5812.240	5840.080	---	PASS
11N20SI SO	Ant1	5180	20.480	5169.880	5190.360	---	PASS
		5200	20.120	5189.960	5210.080	---	PASS
		5240	20.240	5229.720	5249.960	---	PASS
		5745	20.800	5734.480	5755.280	---	PASS
		5785	20.520	5774.680	5795.200	---	PASS
		5825	20.720	5814.640	5835.360	---	PASS
11N40SI SO	Ant1	5190	40.880	5169.440	5210.320	---	PASS
		5230	39.040	5210.400	5249.440	---	PASS
		5755	40.080	5735.320	5775.400	---	PASS
		5795	39.600	5775.000	5814.600	---	PASS
11AC20S ISO	Ant1	5180	20.760	5169.760	5190.520	---	PASS
		5200	21.000	5189.520	5210.520	---	PASS
		5240	20.680	5229.600	5250.280	---	PASS
		5745	21.040	5734.480	5755.520	---	PASS
		5785	20.960	5774.640	5795.600	---	PASS
		5825	20.960	5814.720	5835.680	---	PASS
11AC40S ISO	Ant1	5190	41.440	5169.120	5210.560	---	PASS
		5230	41.200	5209.920	5251.120	---	PASS
		5755	40.800	5734.600	5775.400	---	PASS
		5795	41.440	5774.200	5815.640	---	PASS

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11AC80S ISO	Ant1	5210	80.640	5169.680	5250.320	---	PASS
		5775	80.640	5734.840	5815.480	---	PASS

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Test Graphs





11A_Ant1_5745



11A_Ant1_5785



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11A_Ant1_5825



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200

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11N20SISO_Ant1_5240



11N20SISO_Ant1_5745



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11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5190

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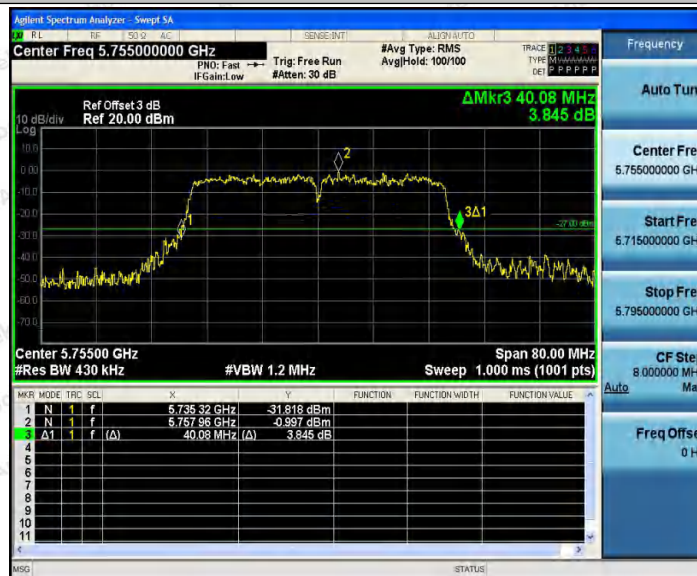
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11N40SISO_Ant1_5230



11N40SISO_Ant1_5755



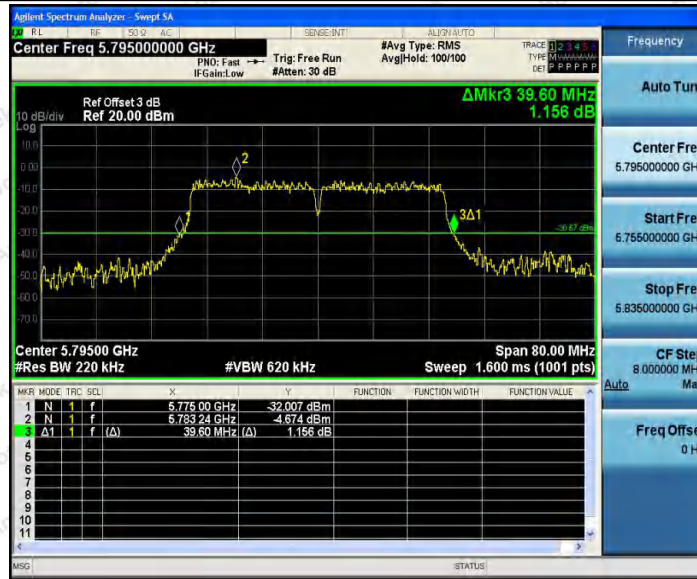
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11N40SISO_Ant1_5795



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200

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11AC20SISO_Ant1_5240



11AC20SISO_Ant1_5745



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11AC40SISO_Ant1_5230



11AC40SISO_Ant1_5755

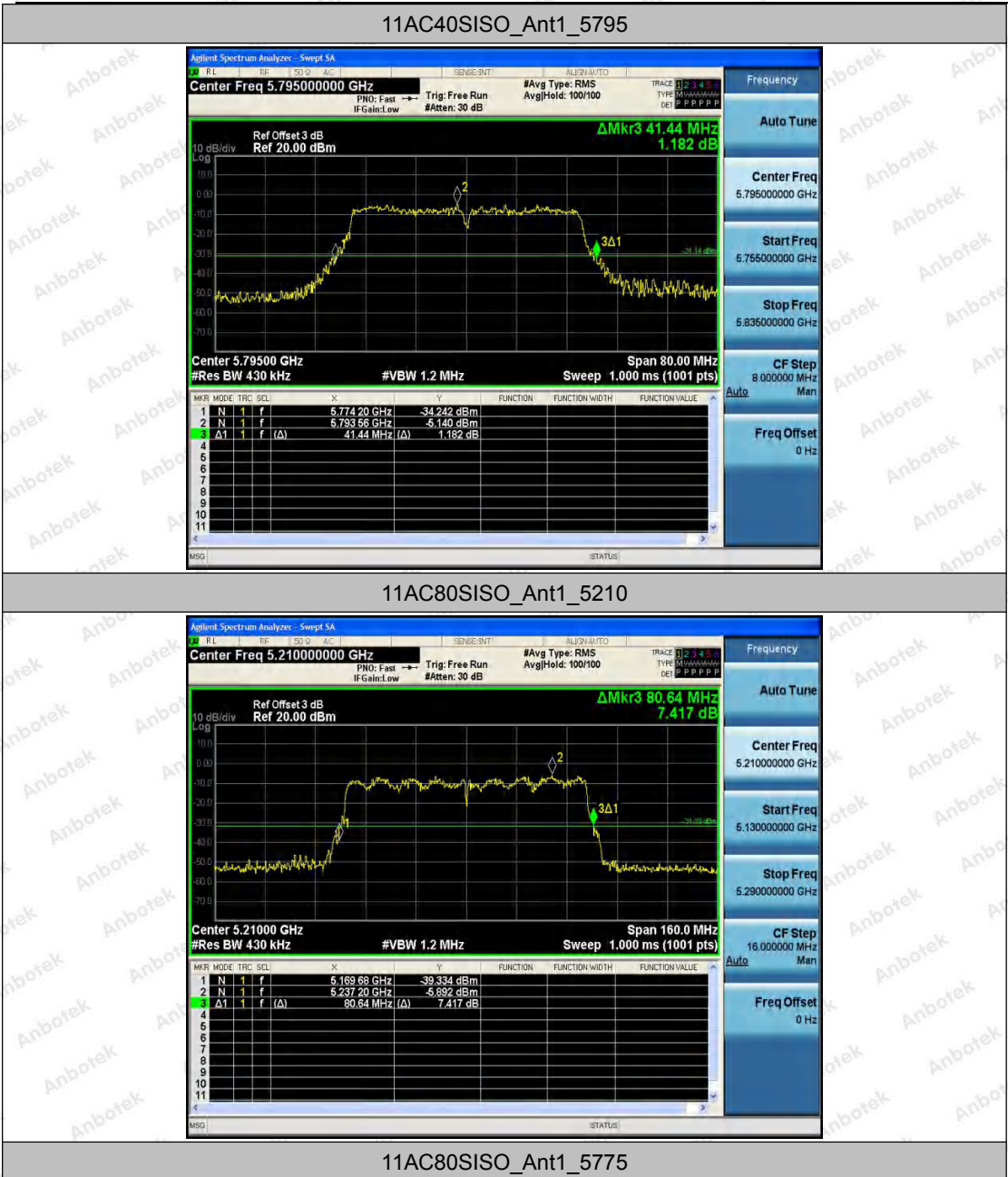


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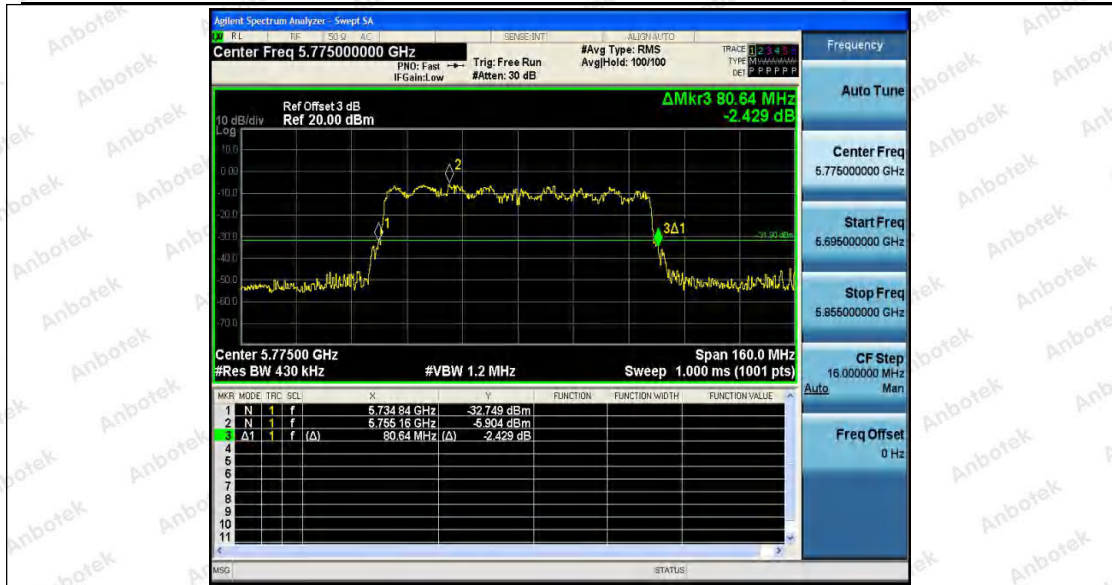
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Appendix A2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.919	5171.582	5188.501	---	PASS
		5200	16.807	5191.544	5208.351	---	PASS
		5240	16.779	5231.594	5248.373	---	PASS
		5745	16.886	5736.595	5753.481	---	PASS
		5785	17.023	5776.473	5793.496	---	PASS
		5825	17.436	5816.512	5833.948	---	PASS
11N20SI SO	Ant1	5180	17.834	5171.098	5188.932	---	PASS
		5200	17.774	5191.138	5208.912	---	PASS
		5240	17.871	5231.074	5248.945	---	PASS
		5745	17.817	5736.124	5753.941	---	PASS
		5785	17.762	5776.142	5793.904	---	PASS
		5825	17.776	5816.188	5833.964	---	PASS
11N40SI SO	Ant1	5190	36.121	5172.012	5208.133	---	PASS
		5230	36.115	5211.943	5248.058	---	PASS
		5755	36.139	5736.954	5773.093	---	PASS
		5795	36.270	5776.820	5813.090	---	PASS
11AC20S ISO	Ant1	5180	17.934	5171.047	5188.981	---	PASS
		5200	17.992	5191.111	5209.103	---	PASS
		5240	17.975	5231.087	5249.062	---	PASS
		5745	17.843	5736.092	5753.935	---	PASS
		5785	17.955	5776.096	5794.051	---	PASS
		5825	17.911	5816.109	5834.020	---	PASS
11AC40S ISO	Ant1	5190	36.402	5171.808	5208.210	---	PASS
		5230	36.529	5211.811	5248.340	---	PASS
		5755	36.205	5736.892	5773.097	---	PASS
		5795	36.402	5776.783	5813.185	---	PASS
11AC80S ISO	Ant1	5210	75.885	5172.237	5248.122	---	PASS
		5775	75.509	5737.106	5812.615	---	PASS

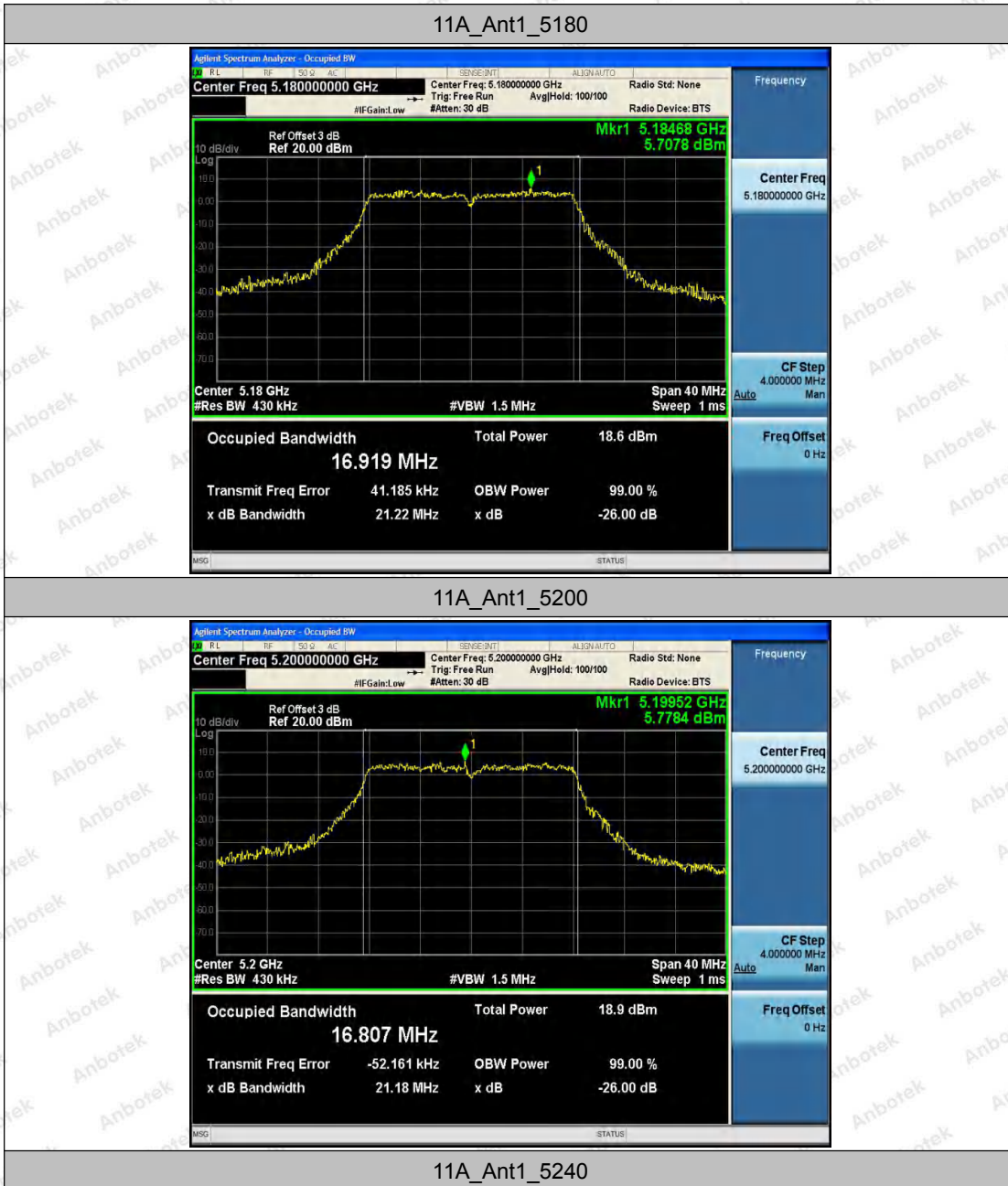
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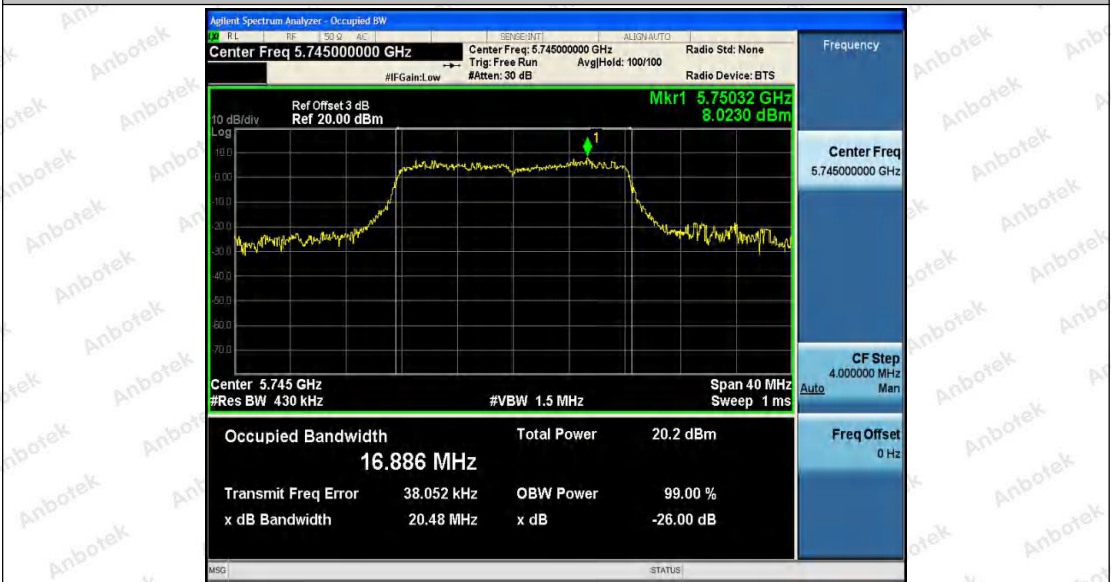
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Test Graphs

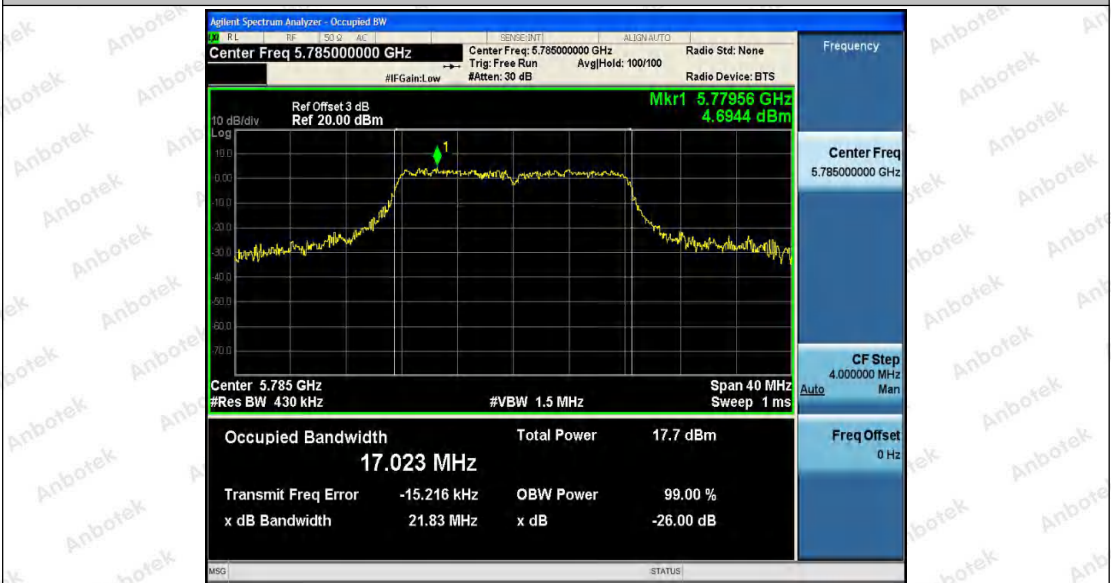




11A_Ant1_5745



11A_Ant1_5785

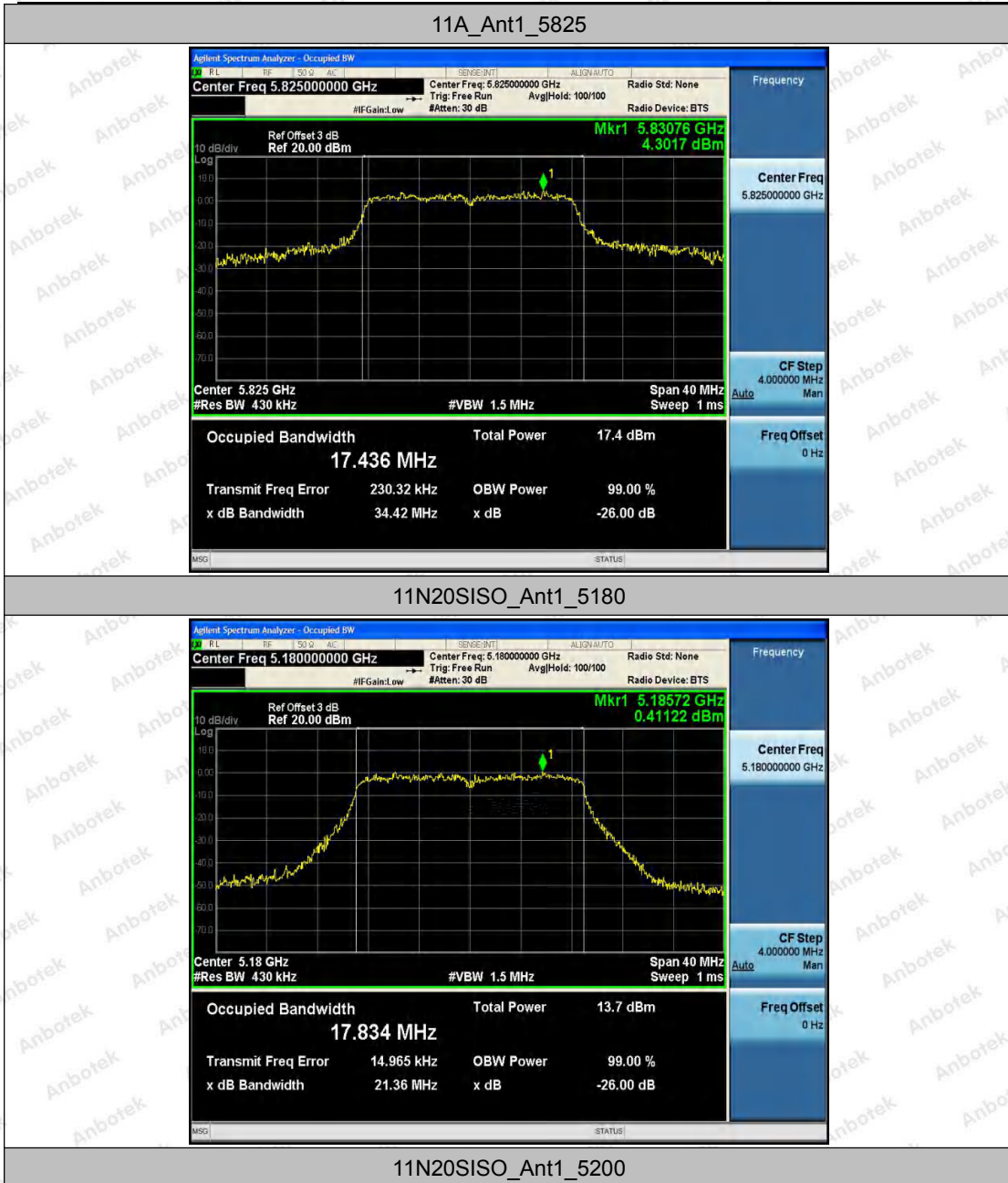


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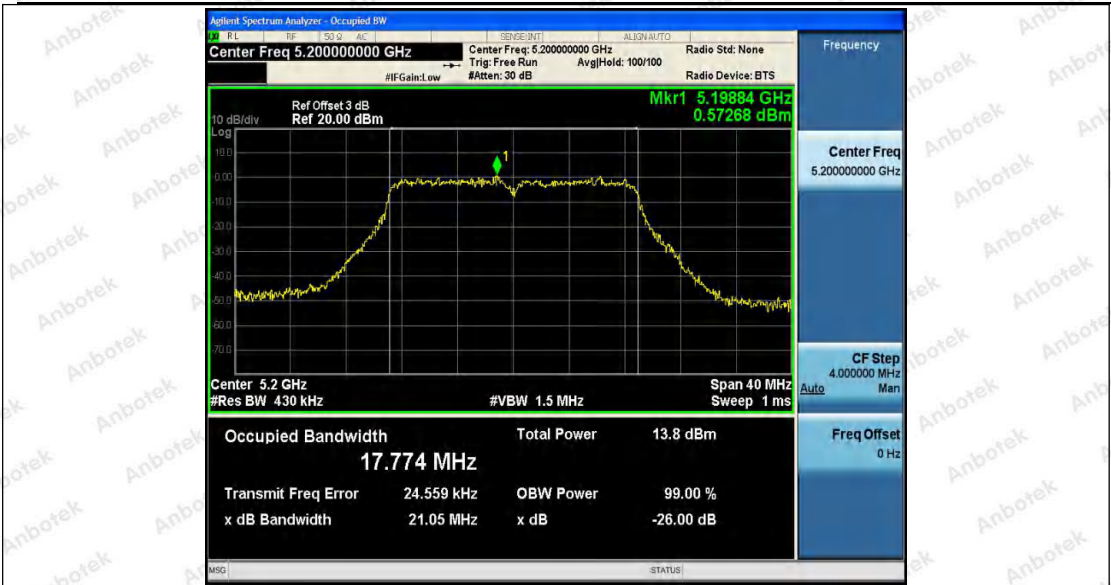
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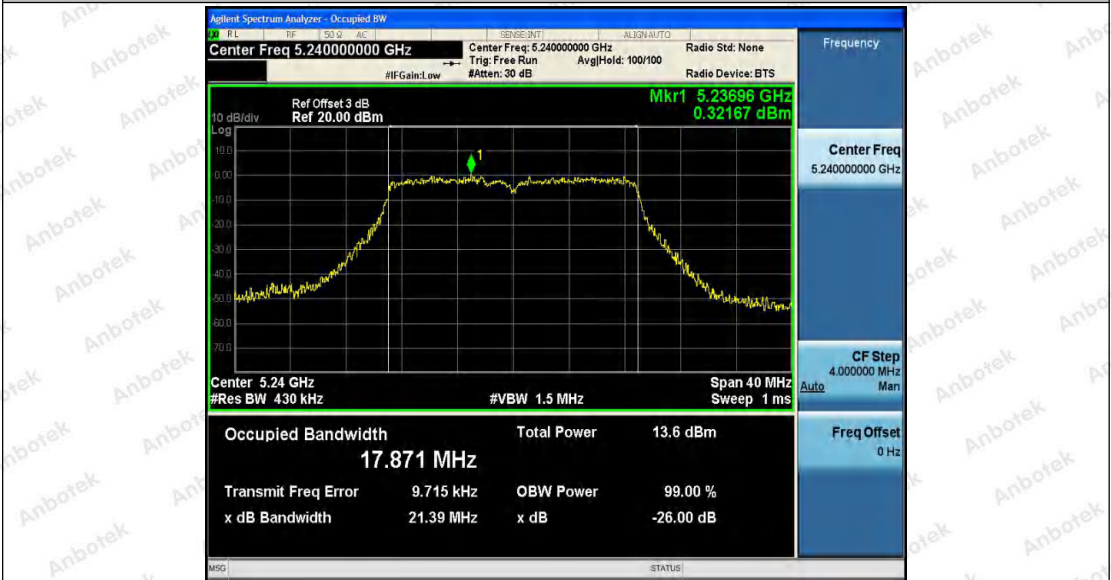
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11N20SISO_Ant1_5240



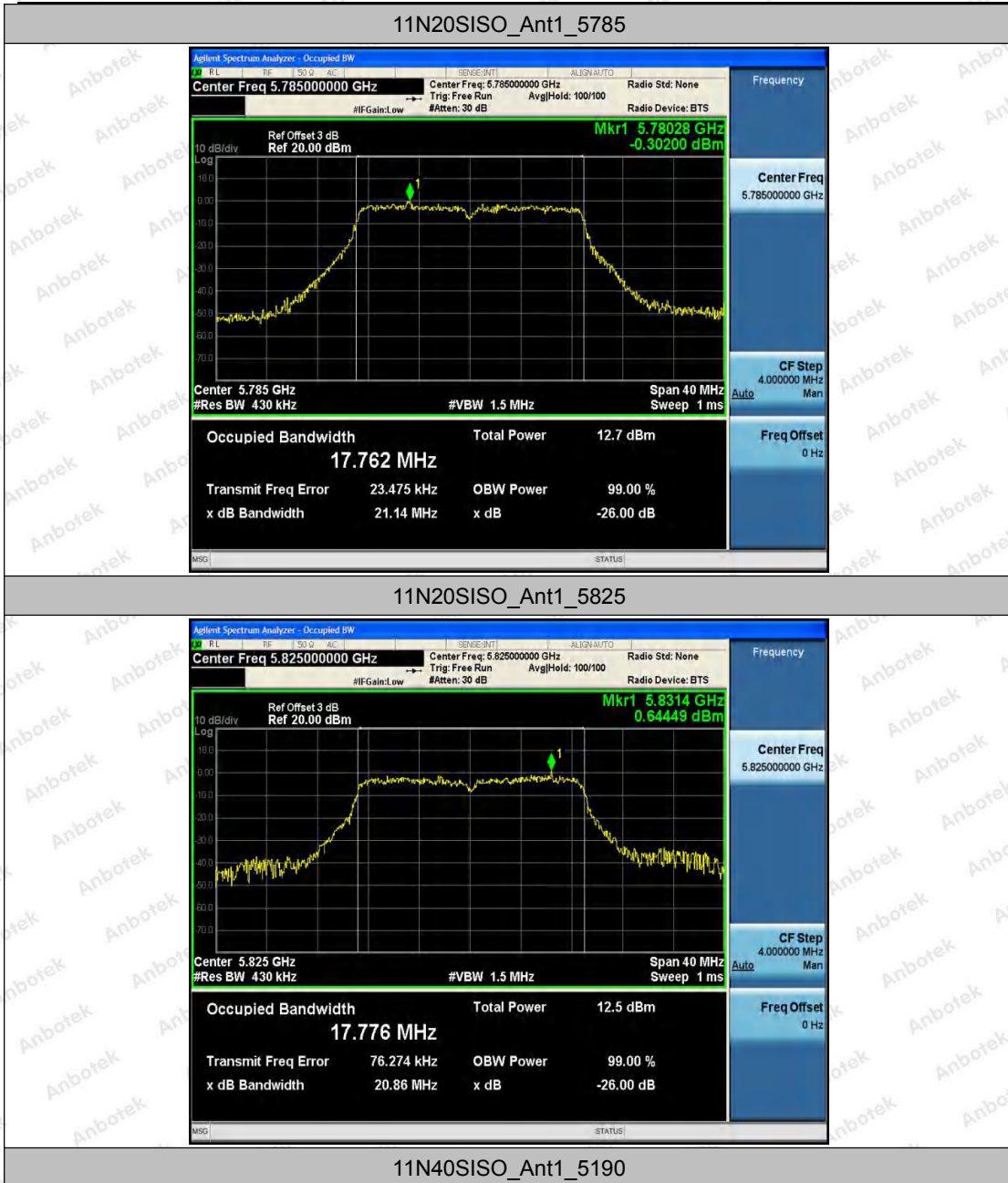
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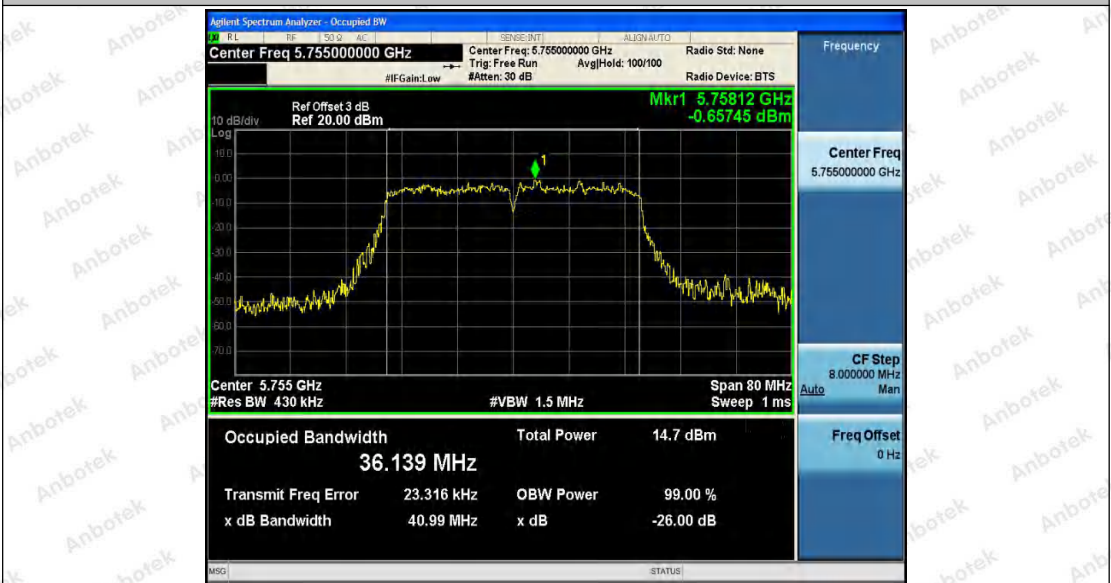
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11N40SISO_Ant1_5230



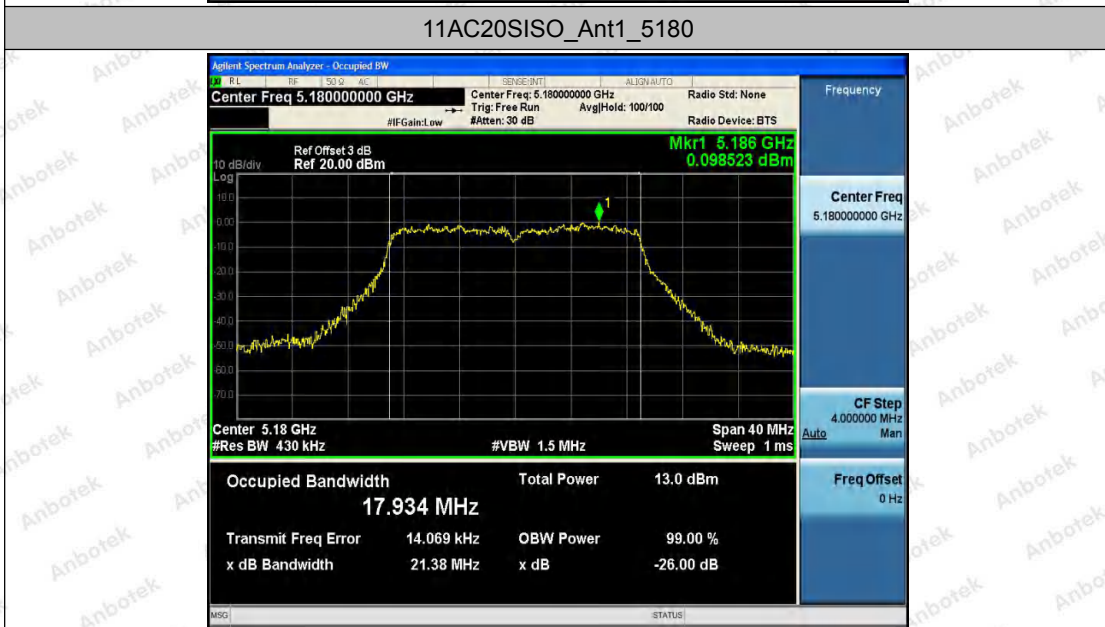
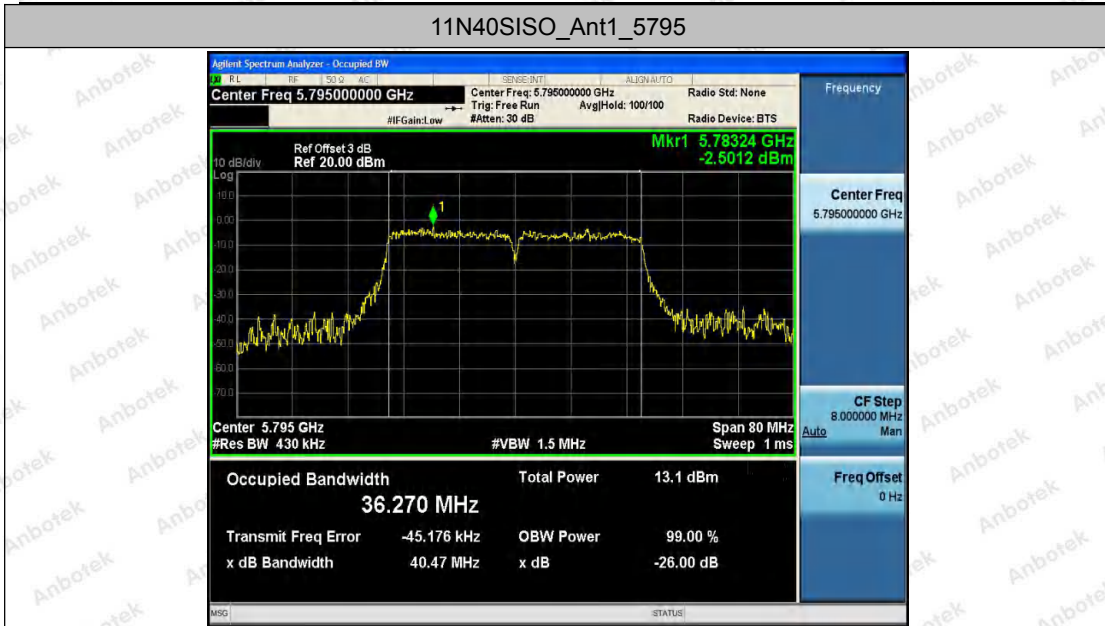
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11AC20SISO_Ant1_5200

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11AC20SISO_Ant1_5240



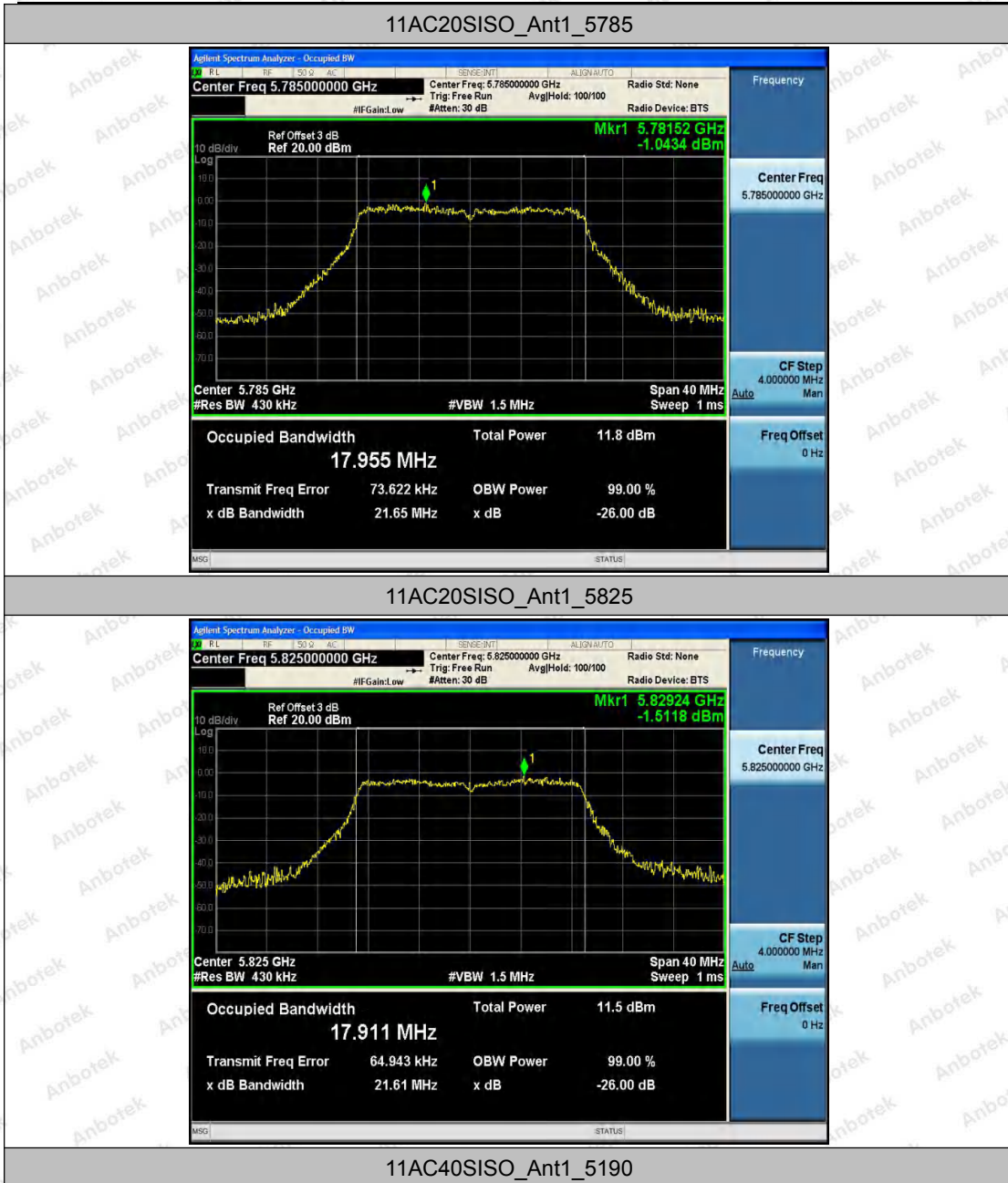
11AC20SISO_Ant1_5745



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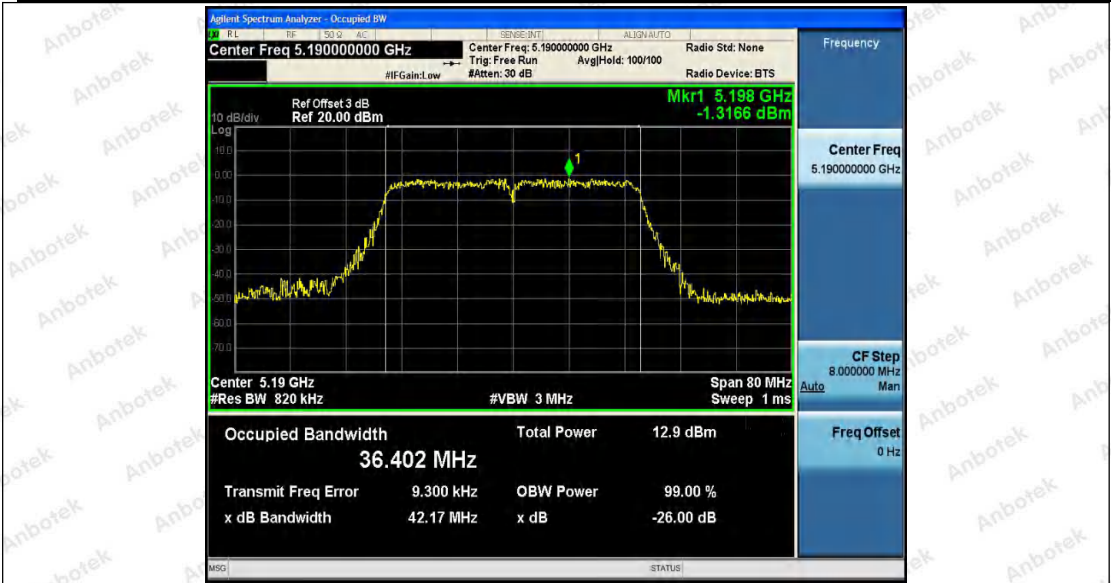


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11AC40SISO_Ant1_5230



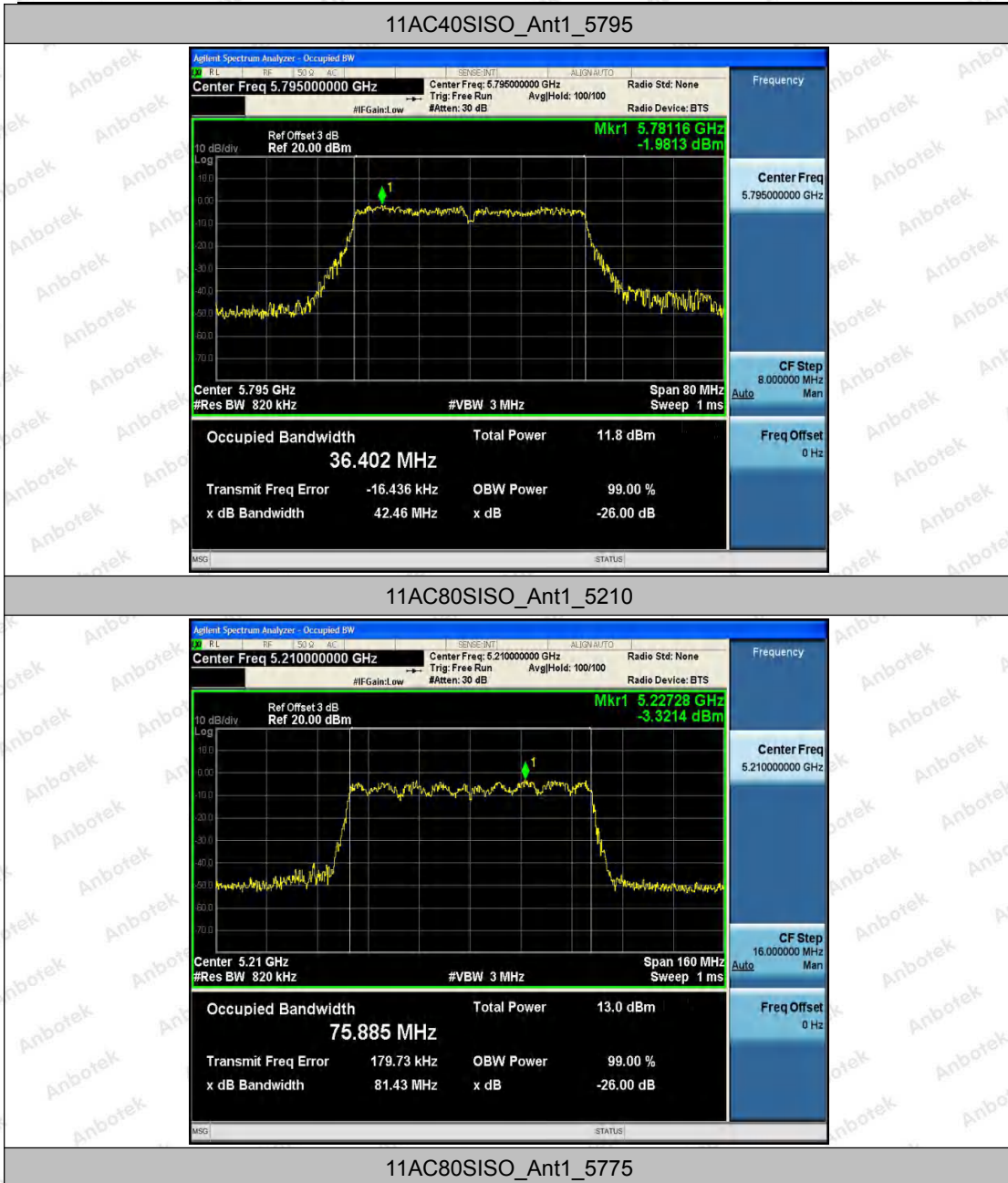
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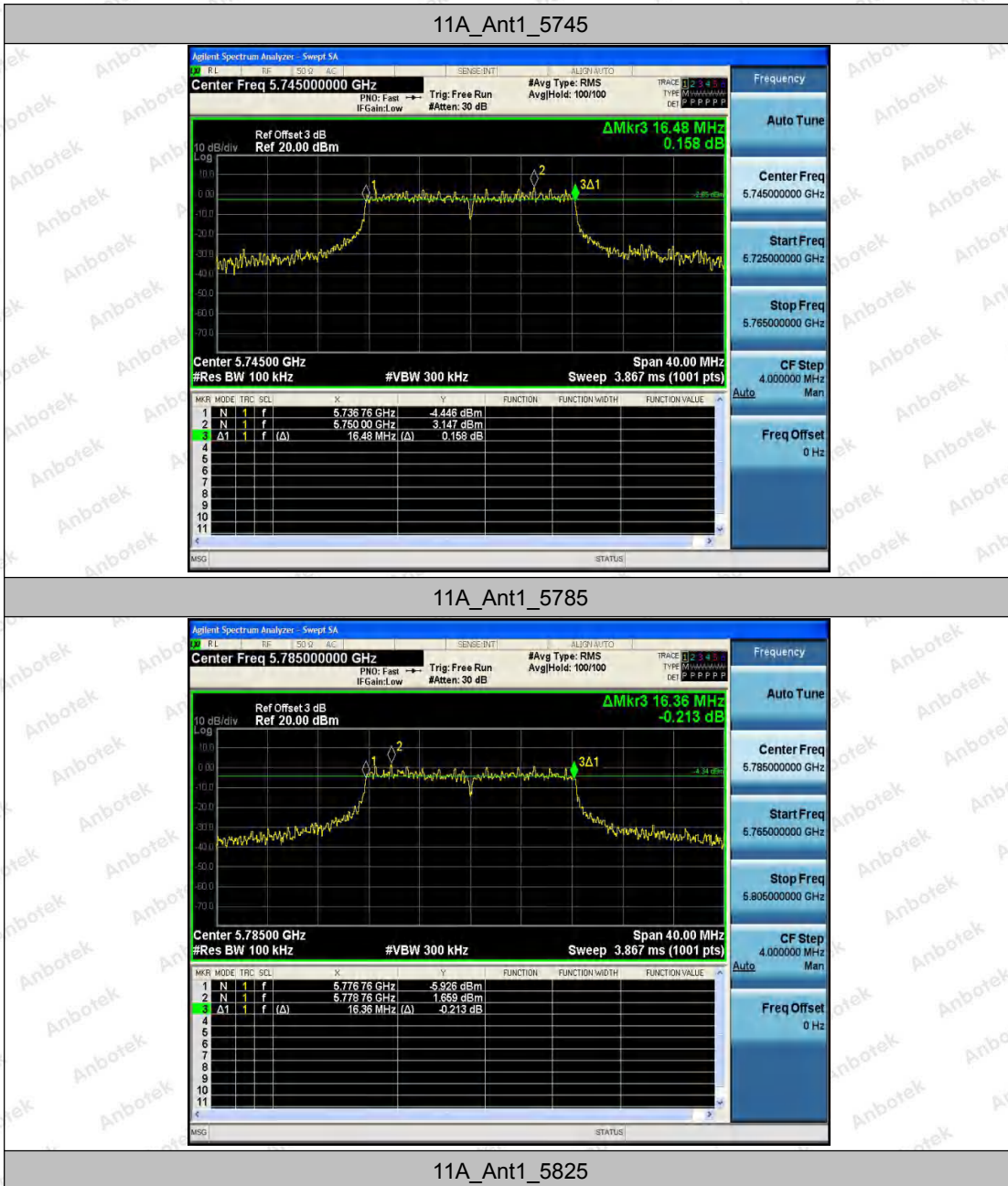
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Appendix A3: Min emission bandwidth

Test Result

TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.480	5736.760	5753.240	0.5	PASS
		5785	16.360	5776.760	5793.120	0.5	PASS
		5825	16.440	5816.840	5833.280	0.5	PASS
11N20SI SO	Ant1	5745	17.600	5736.240	5753.840	0.5	PASS
		5785	17.480	5776.280	5793.760	0.5	PASS
		5825	17.400	5816.440	5833.840	0.5	PASS
11N40SI SO	Ant1	5755	36.240	5736.760	5773.000	0.5	PASS
		5795	36.160	5776.760	5812.920	0.5	PASS
11AC20S ISO	Ant1	5745	17.040	5736.840	5753.880	0.5	PASS
		5785	16.920	5776.480	5793.400	0.5	PASS
		5825	17.360	5816.480	5833.840	0.5	PASS
11AC40S ISO	Ant1	5755	35.600	5737.320	5772.920	0.5	PASS
		5795	35.760	5776.840	5812.600	0.5	PASS
11AC80S ISO	Ant1	5775	75.520	5737.240	5812.760	0.5	PASS

Test Graphs





11N20SISO_Ant1_5745



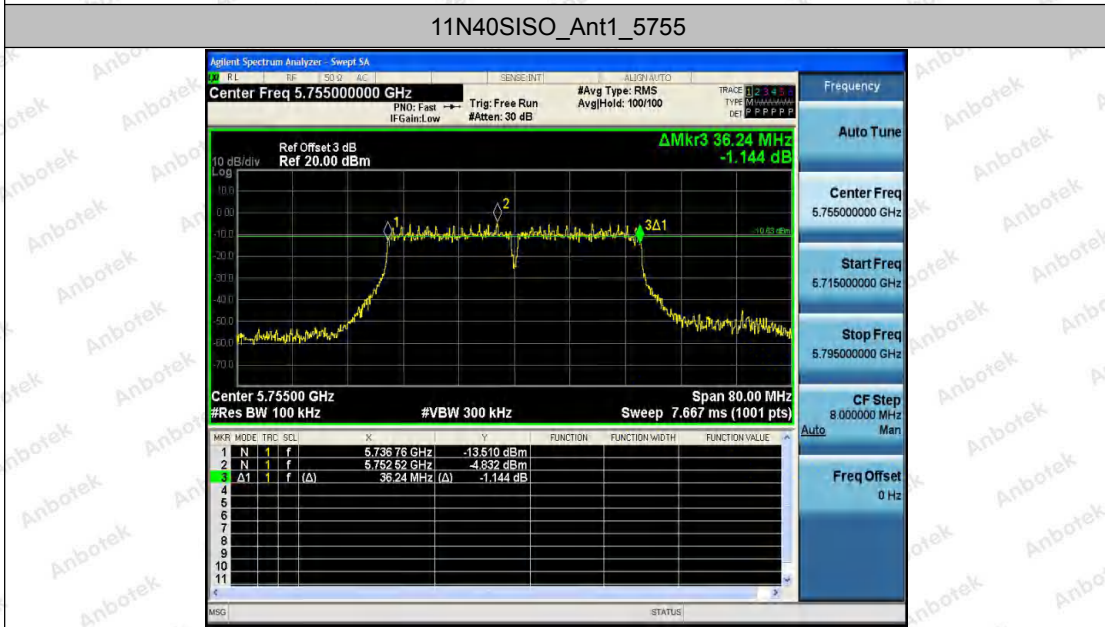
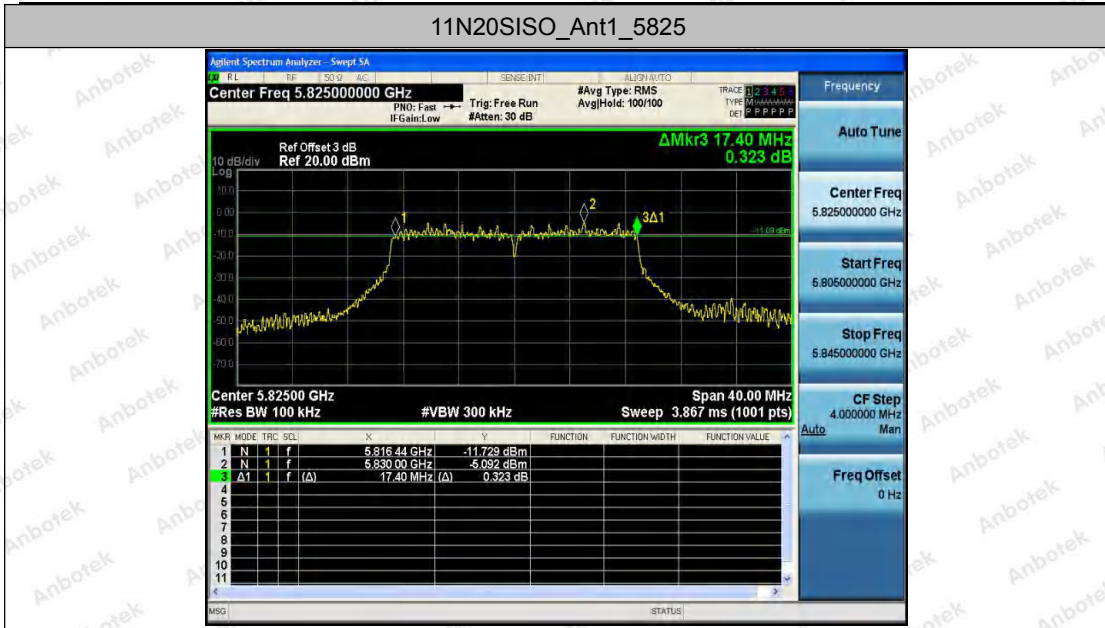
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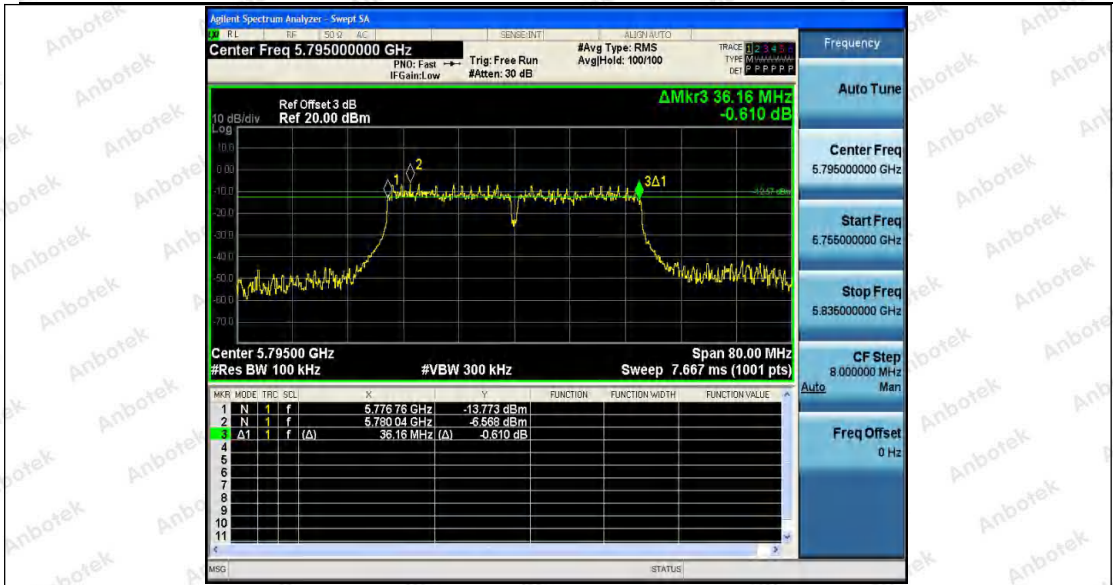
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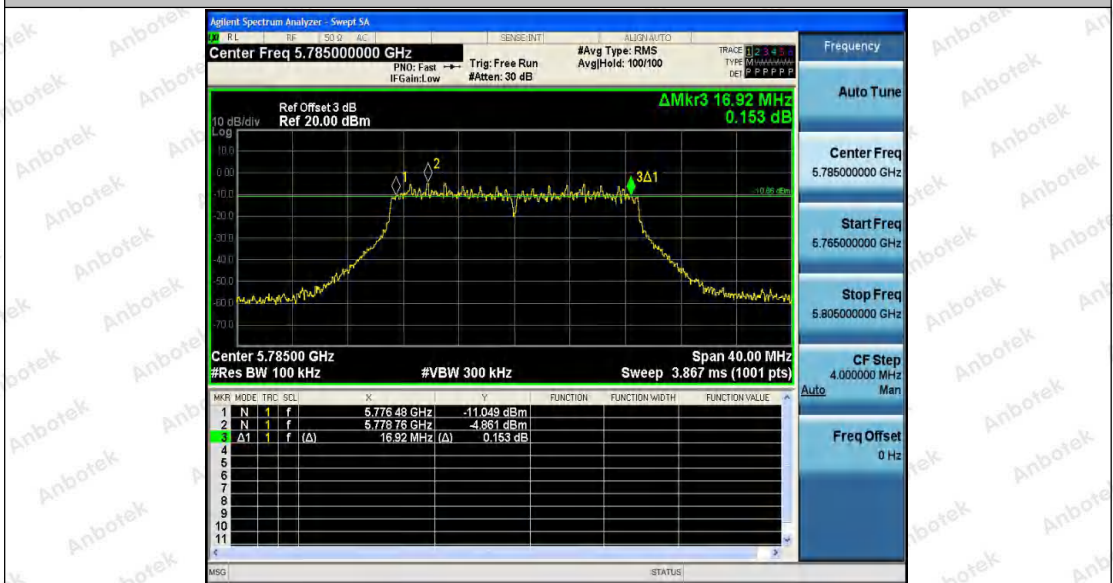
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11AC20SISO_Ant1_5745



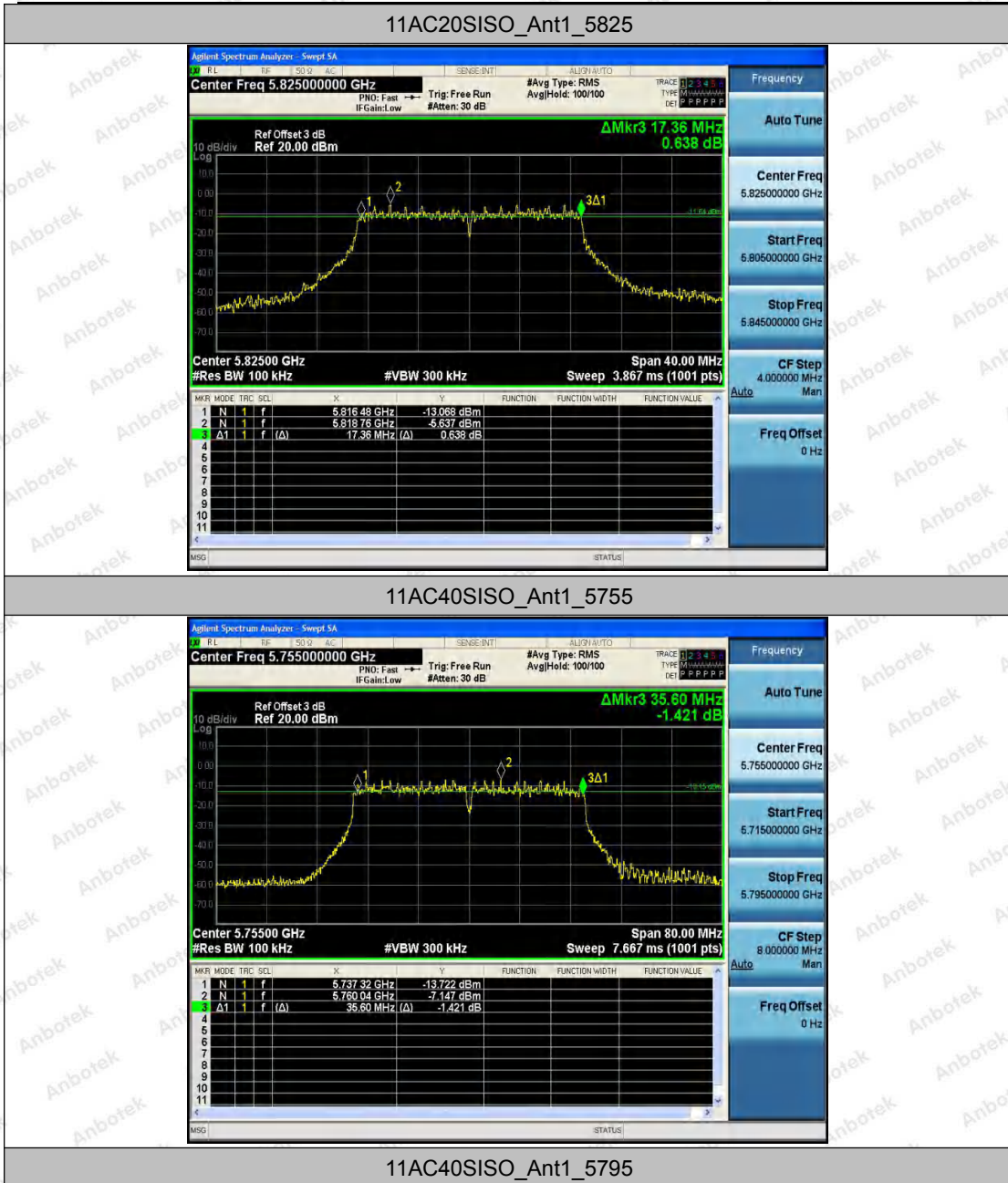
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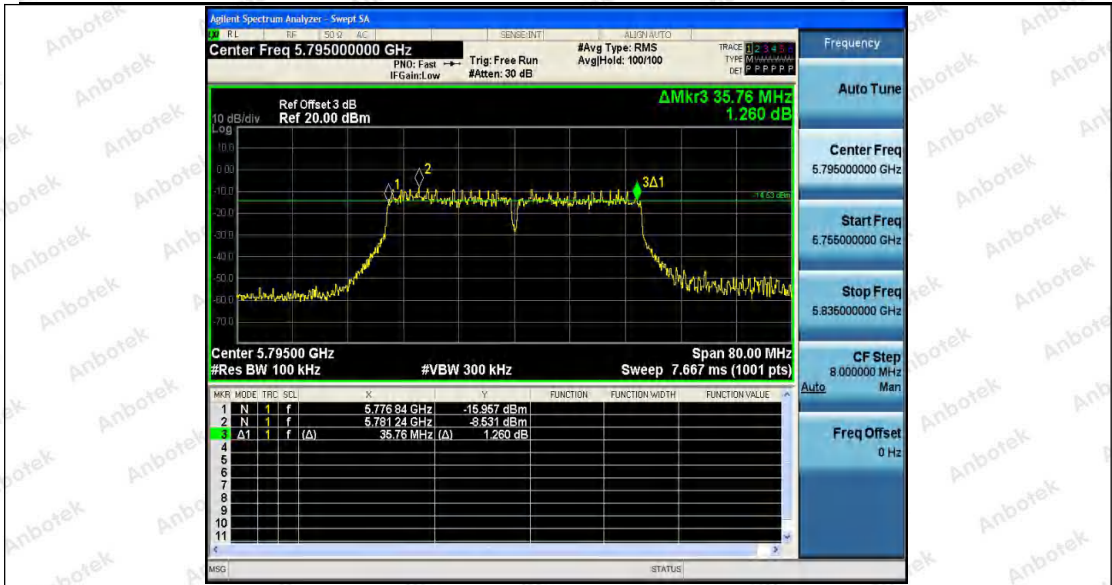
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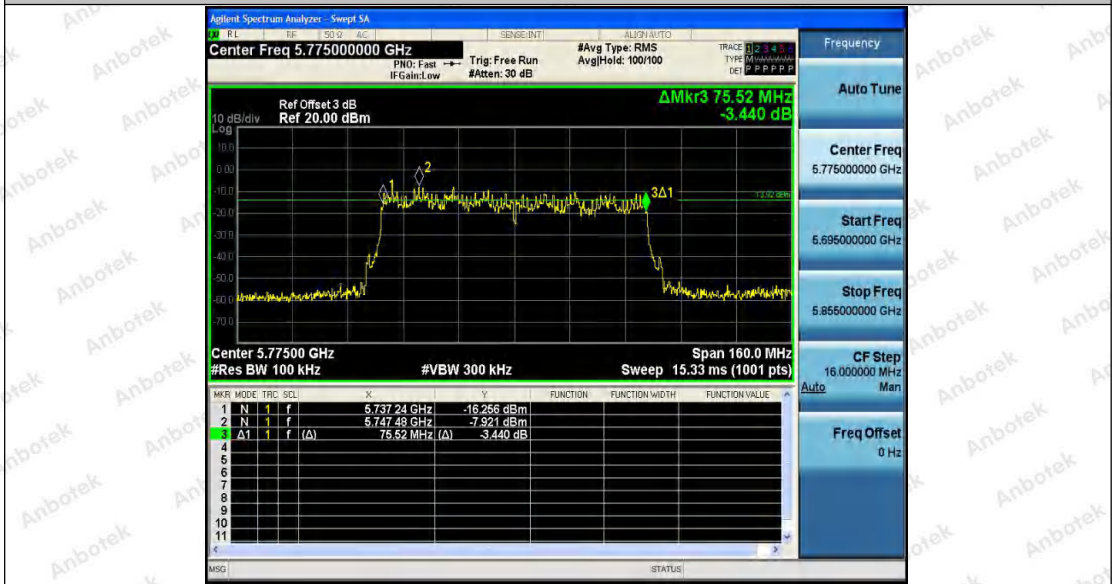
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11AC80SISO_Ant1_5775



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Appendix B: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	14.42	≤23.98	PASS
		5200	14.63	≤23.98	PASS
		5240	13.77	≤23.98	PASS
		5745	13.84	≤30	PASS
		5785	14.64	≤30	PASS
		5825	14.54	≤30	PASS
11N20SISO	Ant1	5180	11.31	≤23.98	PASS
		5200	11.84	≤23.98	PASS
		5240	11.56	≤23.98	PASS
		5745	12.63	≤30	PASS
		5785	12.84	≤30	PASS
		5825	11.84	≤30	PASS
11N40SISO	Ant1	5190	11.06	≤23.98	PASS
		5230	11.30	≤23.98	PASS
		5755	10.73	≤30	PASS
		5795	10.56	≤30	PASS
11AC20SISO	Ant1	5180	11.73	≤23.98	PASS
		5200	11.76	≤23.98	PASS
		5240	11.61	≤23.98	PASS
		5745	10.61	≤30	PASS
		5785	10.34	≤30	PASS
		5825	10.64	≤30	PASS
11AC40SISO	Ant1	5190	11.14	≤23.98	PASS
		5230	11.06	≤23.98	PASS
		5755	10.98	≤30	PASS
		5795	10.19	≤30	PASS
11AC80SISO	Ant1	5210	10.77	≤23.98	PASS
		5775	10.36	≤30	PASS

Note: The Duty Cycle Factor is compensated in the graph.

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Appendix C: Maximum power spectral density

Test Result(for WIFI 5.1G)

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	7.38	≤11	PASS
		5200	7.45	≤11	PASS
		5240	6.81	≤11	PASS
11N20SISO	Ant1	5180	7.86	≤11	PASS
		5200	7.12	≤11	PASS
		5240	5.97	≤11	PASS
11N40SISO	Ant1	5190	3.55	≤11	PASS
		5230	2.96	≤11	PASS
11AC20SISO	Ant1	5180	7.24	≤11	PASS
		5200	7.64	≤11	PASS
		5240	6.07	≤11	PASS
11AC40SISO	Ant1	5190	3.69	≤11	PASS
		5230	3.13	≤11	PASS
11AC80SISO	Ant1	5210	1.96	≤11	PASS

Test Result(for WIFI 5.6G)

TestMode	Antenna	Channel	Result [dBm/500KHz]	Limit[dBm/500KHz]	Verdict
11A	Ant1	5745	5.31	≤30	PASS
		5785	4.16	≤30	PASS
		5825	3.91	≤30	PASS
11N20SISO	Ant1	5745	6.29	≤30	PASS
		5785	4.94	≤30	PASS
		5825	4.6	≤30	PASS
11N40SISO	Ant1	5755	1.9	≤30	PASS
		5795	0.29	≤30	PASS
11AC20SISO	Ant1	5745	5.53	≤30	PASS
		5785	4.82	≤30	PASS
		5825	3.36	≤30	PASS
11AC40SISO	Ant1	5755	1.48	≤30	PASS
		5795	1.27	≤30	PASS
11AC80SISO	Ant1	5775	0.14	≤30	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.

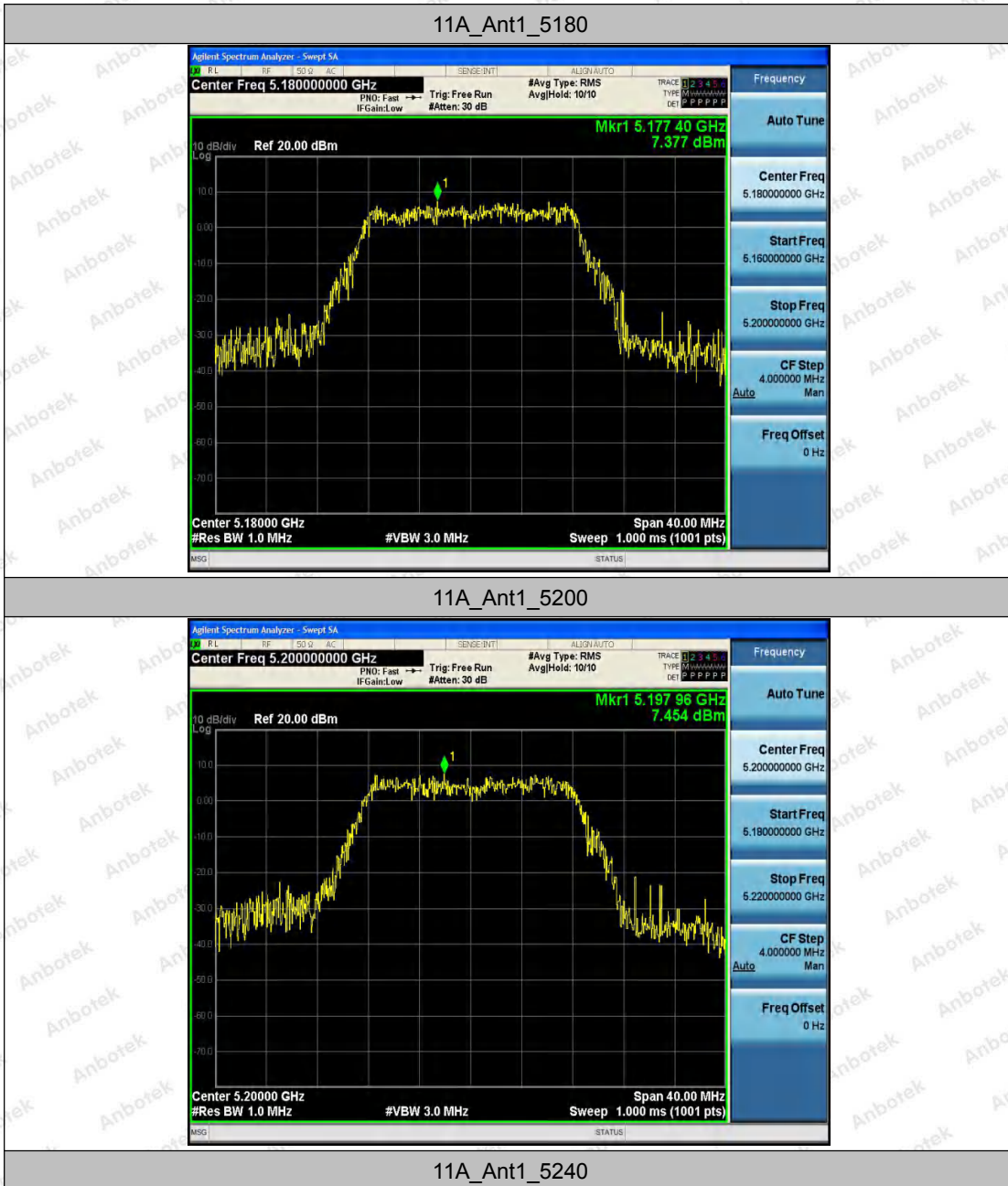
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Test Graphs



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11A_Ant1_5745



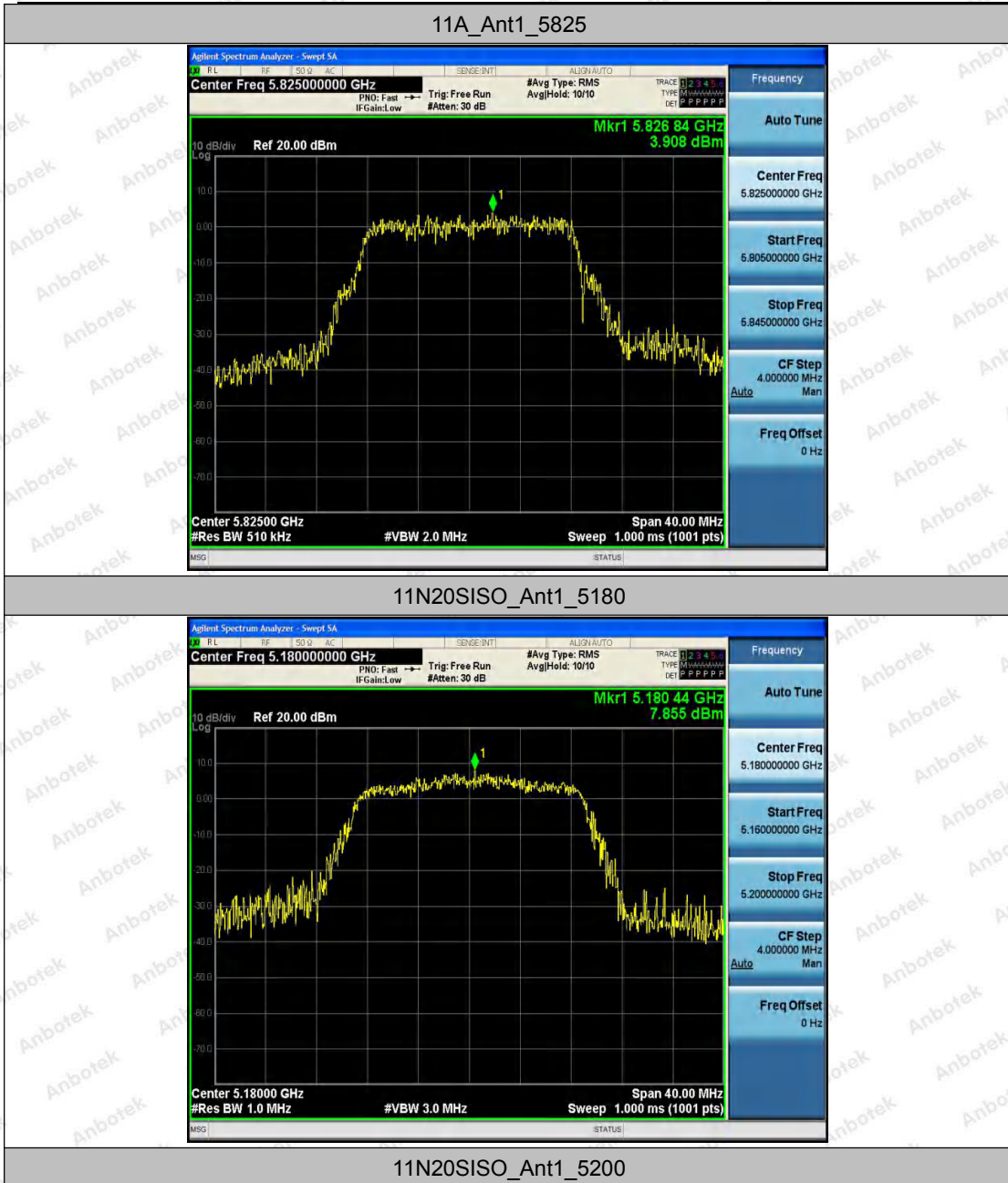
11A_Ant1_5785



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11N20SISO_Ant1_5240



11N20SISO_Ant1_5745



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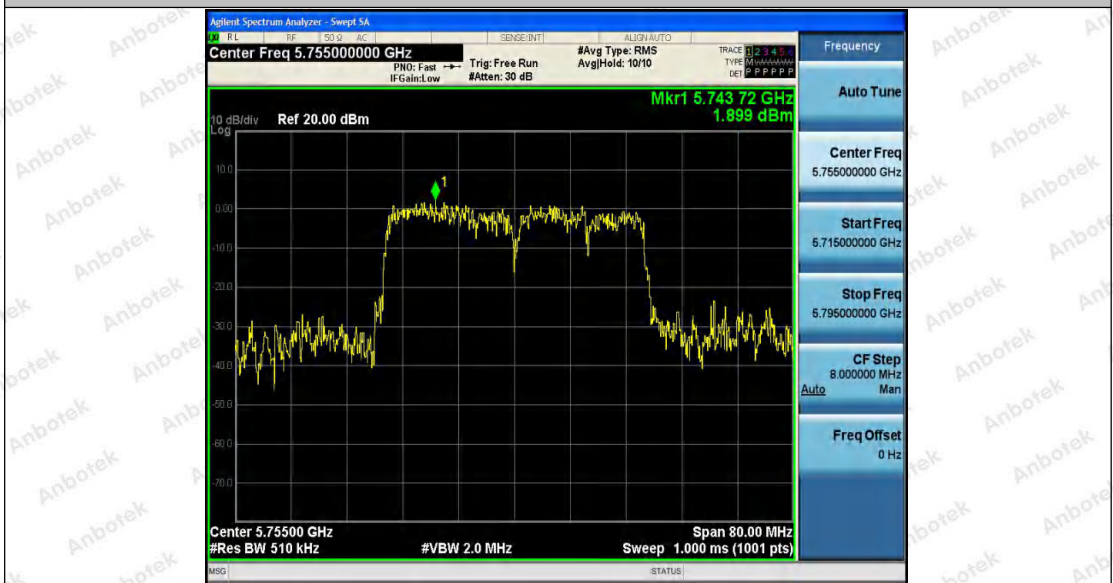
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11N40SISO_Ant1_5230



11N40SISO_Ant1_5755

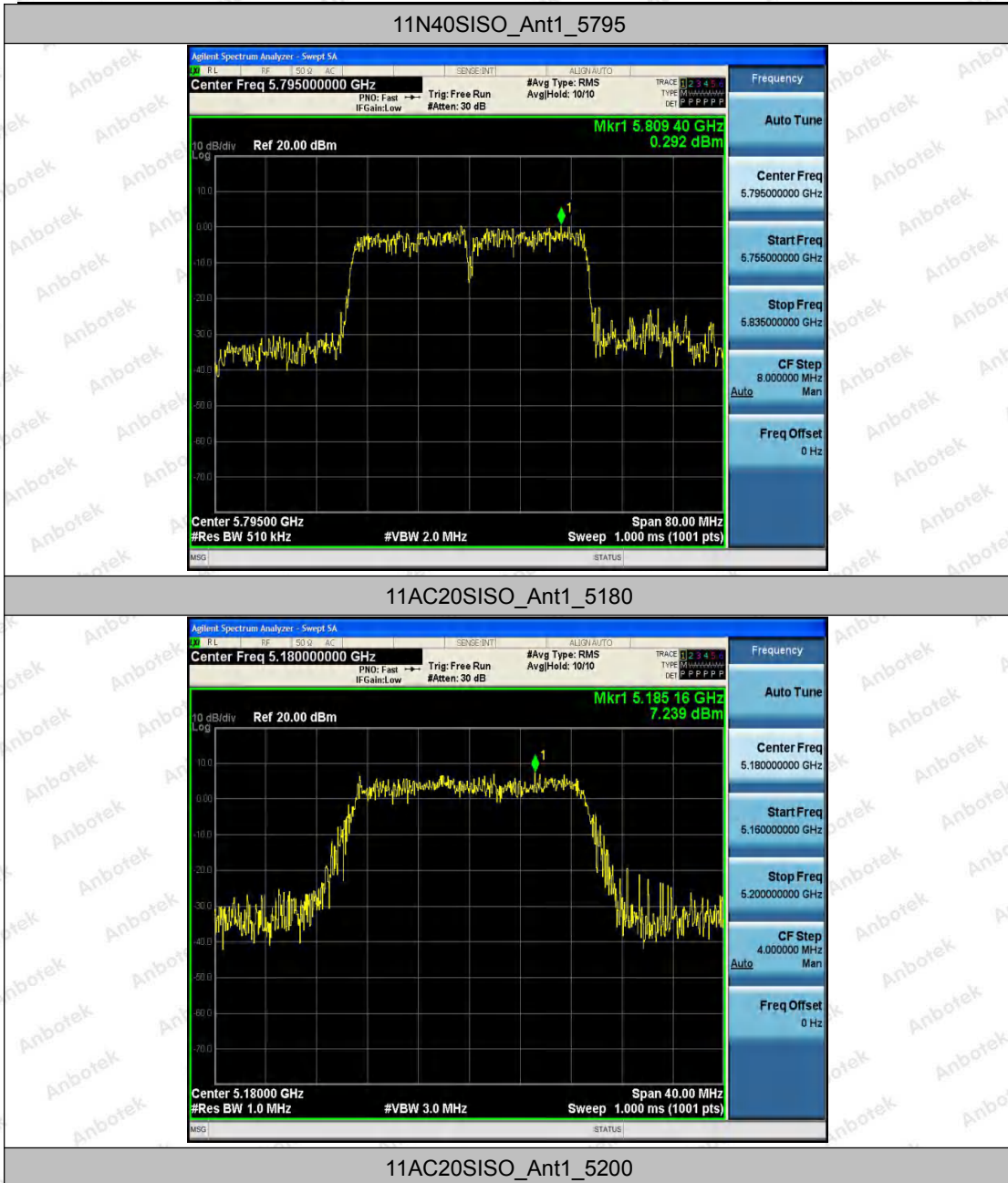


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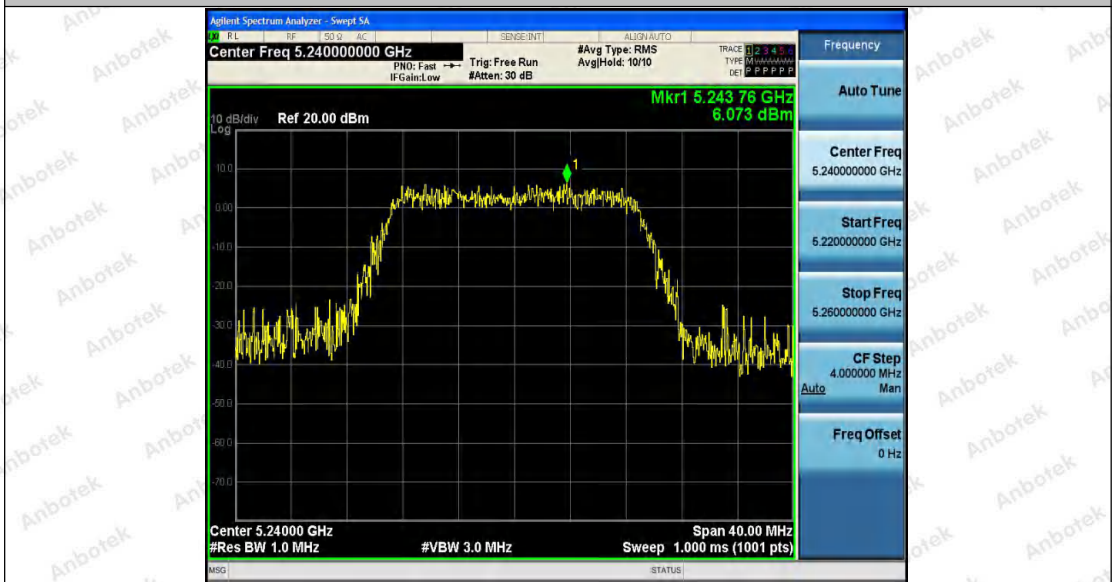
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11AC20SISO_Ant1_5240



11AC20SISO_Ant1_5745

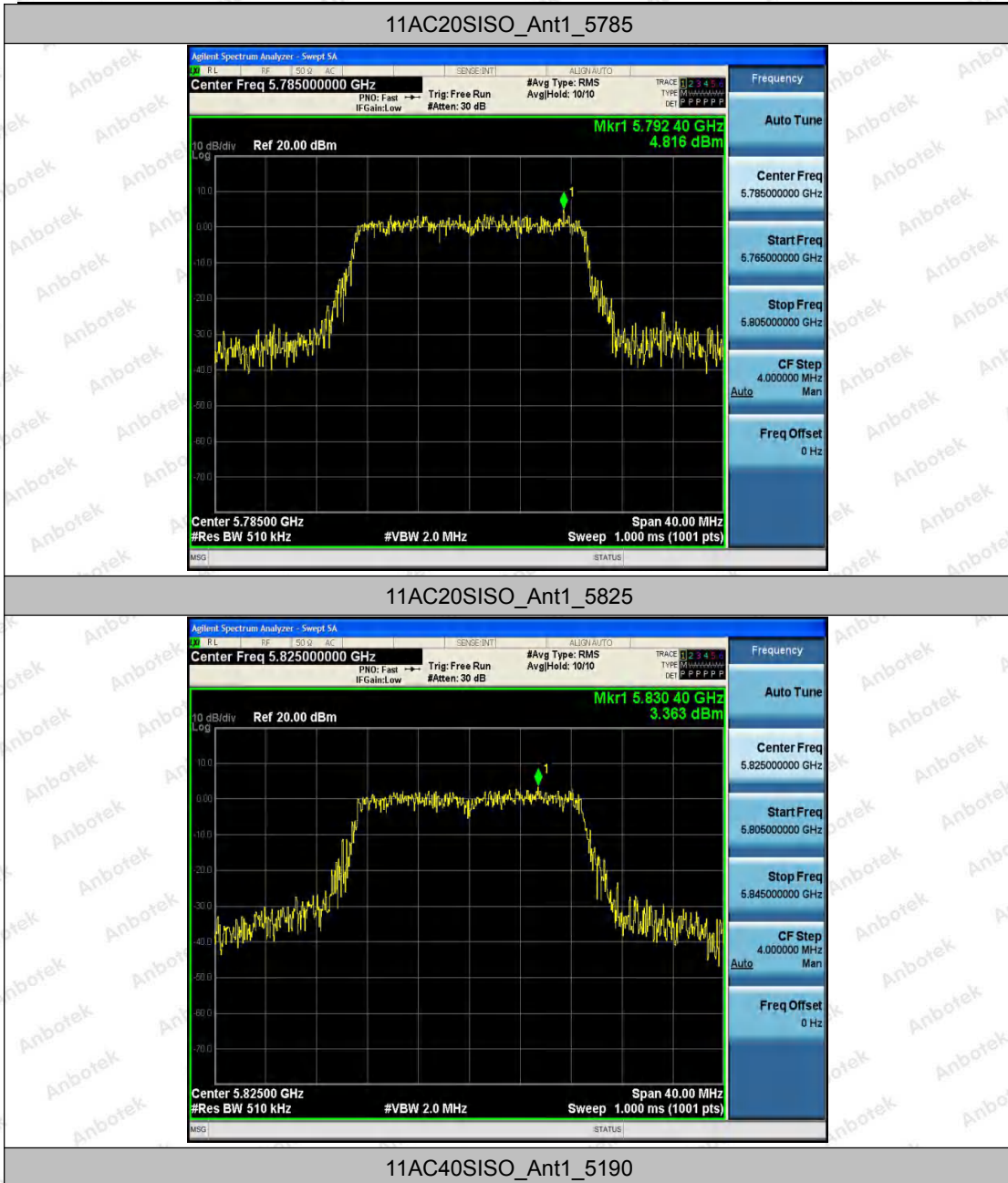


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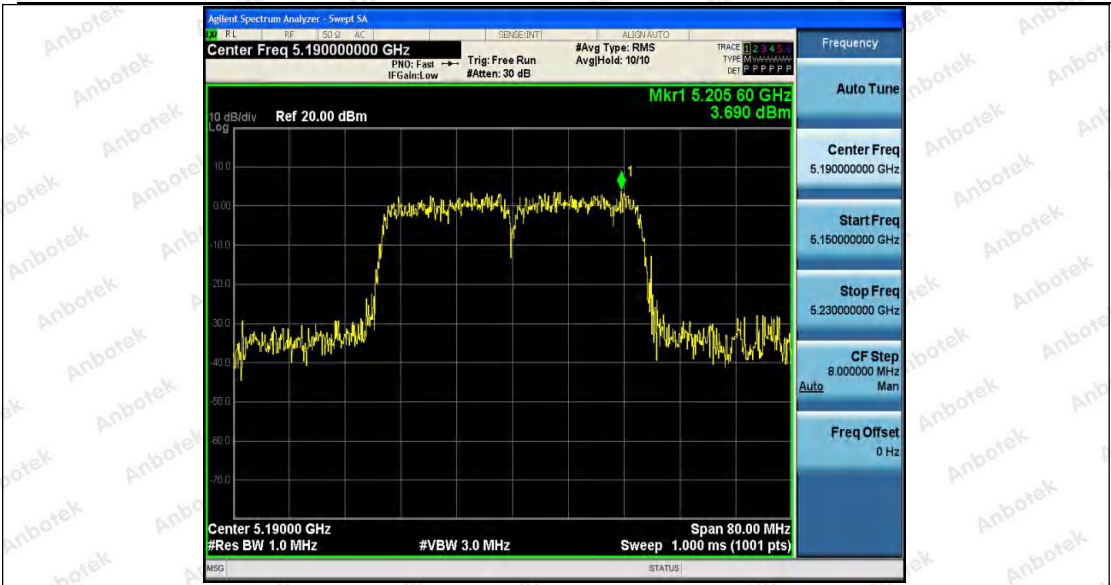


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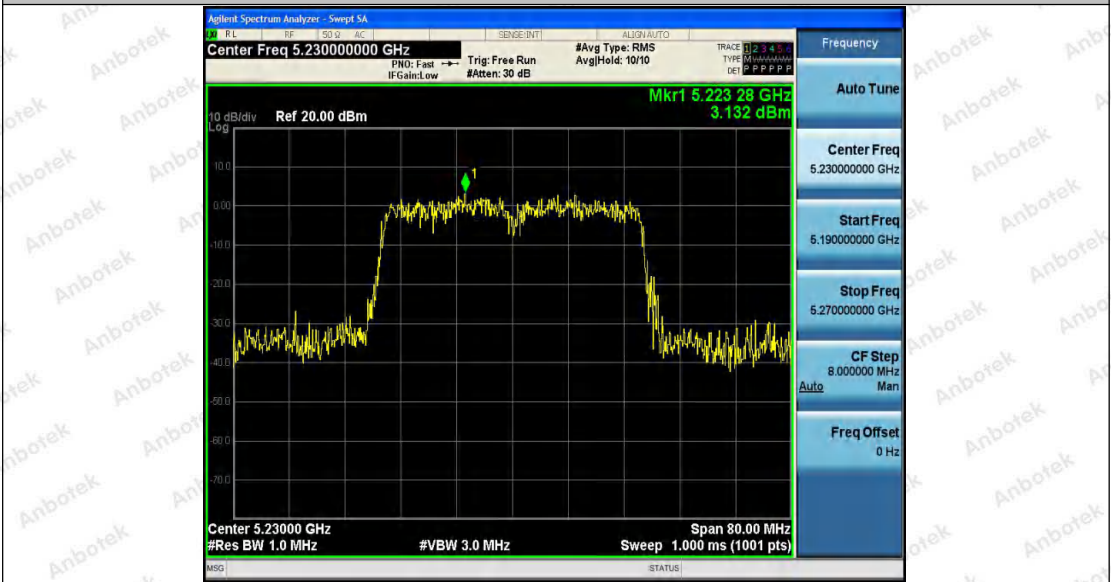
Address: 1/F., Building D, Sogood Science and Technology Park, Sanwei Community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.

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

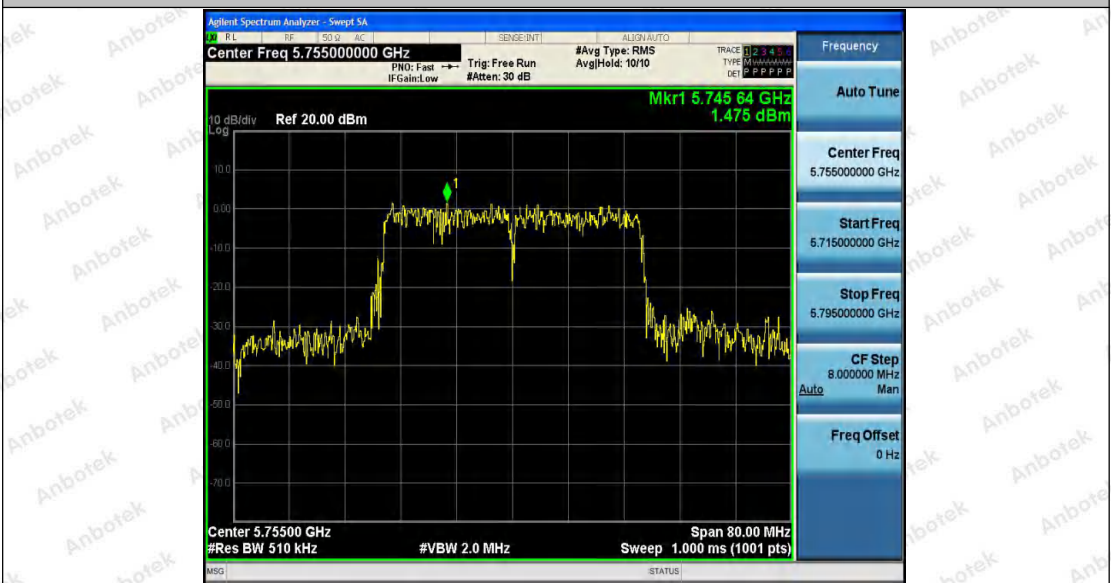
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11AC40SISO_Ant1_5230



11AC40SISO_Ant1_5755



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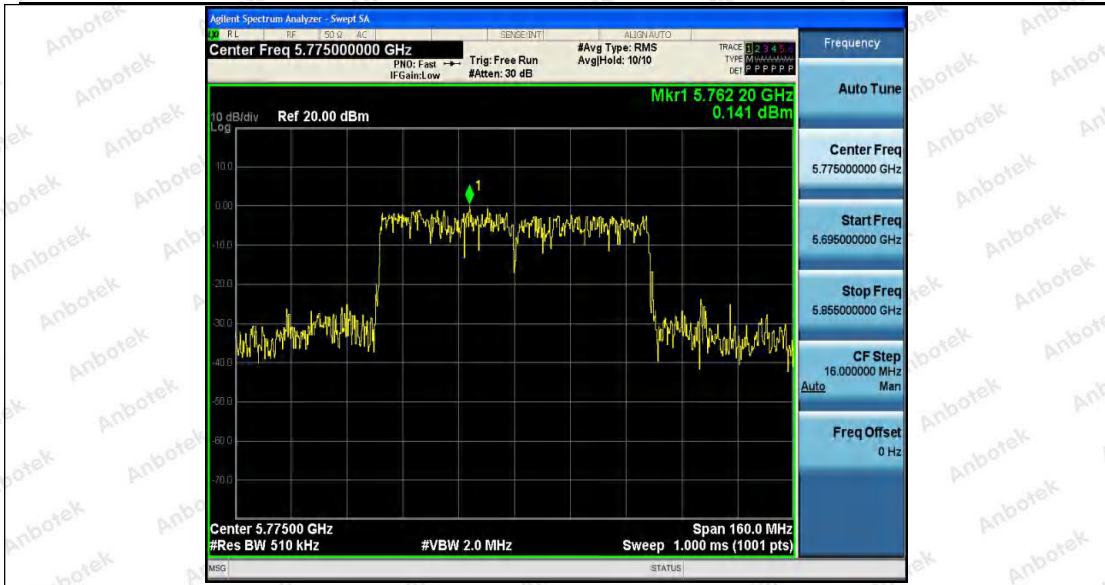
11AC80SISO_Ant1_5775

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Appendix D: Band edge measurements

Test Result

TestMode	Antenna	ChName	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-39.9	≤-27	PASS
		High	5240	-41.45	≤-27	PASS
11N20SI SO	Ant1	Low	5180	-41.2	≤-27	PASS
		High	5240	-41.61	≤-27	PASS
11N40SI SO	Ant1	Low	5190	-39.36	≤-27	PASS
		High	5230	-41.85	≤-27	PASS
11AC20S ISO	Ant1	Low	5180	-40.56	≤-27	PASS
		High	5240	-41.75	≤-27	PASS
11AC40S ISO	Ant1	Low	5190	-40.4	≤-27	PASS
		High	5230	-42.2	≤-27	PASS
11AC80S ISO	Ant1	Low	5210	-40.35	≤-27	PASS
		High	5210	-41.33	≤-27	PASS

TestMode	Antenna	ChName	Channel	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-39.78	≤-24.66	PASS
				5700~5720	-30.11	≤15.55	PASS
				5720~5725	-21.75	≤26.84	PASS
				5755~5650	-40.35	≤-27	PASS
		High	5825	5850~5855	-24.21	≤17.20	PASS
				5855~5875	-30.19	≤10.01	PASS
				5875~5925	-40.36	≤-26.78	PASS
				5925~5950	-40.1	≤-27	PASS
11N20SI SO	Ant1	Low	5745	5650~5700	-40.14	≤-21.68	PASS
				5700~5720	-41.12	≤15.29	PASS
				5720~5725	-41.83	≤20.83	PASS
				5755~5650	-39.62	≤-27	PASS
		High	5825	5850~5855	-37.01	≤17.88	PASS
				5855~5875	-40.39	≤10.64	PASS
				5875~5925	-40.43	≤-13.90	PASS
				5925~5950	-40.55	≤-27	PASS
11N40SI SO	Ant1	Low	5755	5650~5700	-40.8	≤-26.41	PASS
				5700~5720	-39.92	≤15.58	PASS
				5720~5725	-37.92	≤15.69	PASS
				5745~5650	-40.89	≤-27	PASS
		High	5795	5850~5855	-40.91	≤17.47	PASS

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				5855~5875	-41.31	≤10.53	PASS
				5875~5925	-39.88	≤17.96	PASS
				5925~5950	-39.79	≤27	PASS
11AC20S ISO	Ant1	Low	5745	5650~5700	-40.66	≤18.81	PASS
				5700~5720	-40.98	≤11.77	PASS
				5720~5725	-41.41	≤20.83	PASS
				5755~5650	-40.66	≤27	PASS
	High	5825	5850~5855	-41.24	≤17.54	PASS	
			5855~5875	-40.35	≤15.47	PASS	
			5875~5925	-40.18	≤9.96	PASS	
			5925~5950	-39.56	≤27	PASS	
11AC40S ISO	Ant1	Low	5755	5650~5700	-40.22	≤21.44	PASS
				5700~5720	-40.66	≤12.02	PASS
				5720~5725	-40.69	≤22.26	PASS
				5745~5650	-40.89	≤27	PASS
	High	5795	5850~5855	-41.27	≤17.14	PASS	
			5855~5875	-40.65	≤10.98	PASS	
			5875~5925	-40.72	≤3.18	PASS	
			5925~5950	-40.35	≤27	PASS	
11AC80S ISO	Ant1	Low	5775	5650~5700	-39.75	≤3.07	PASS
				5700~5720	-39.3	≤15.49	PASS
				5720~5725	-36.38	≤20.39	PASS
				5765~5650	-39.83	≤27	PASS
	High	5775	5850~5855	-36.36	≤19.12	PASS	
			5855~5875	-36.09	≤11.79	PASS	
			5875~5925	-39.8	≤26.22	PASS	
			5925~5950	-39.45	≤27	PASS	

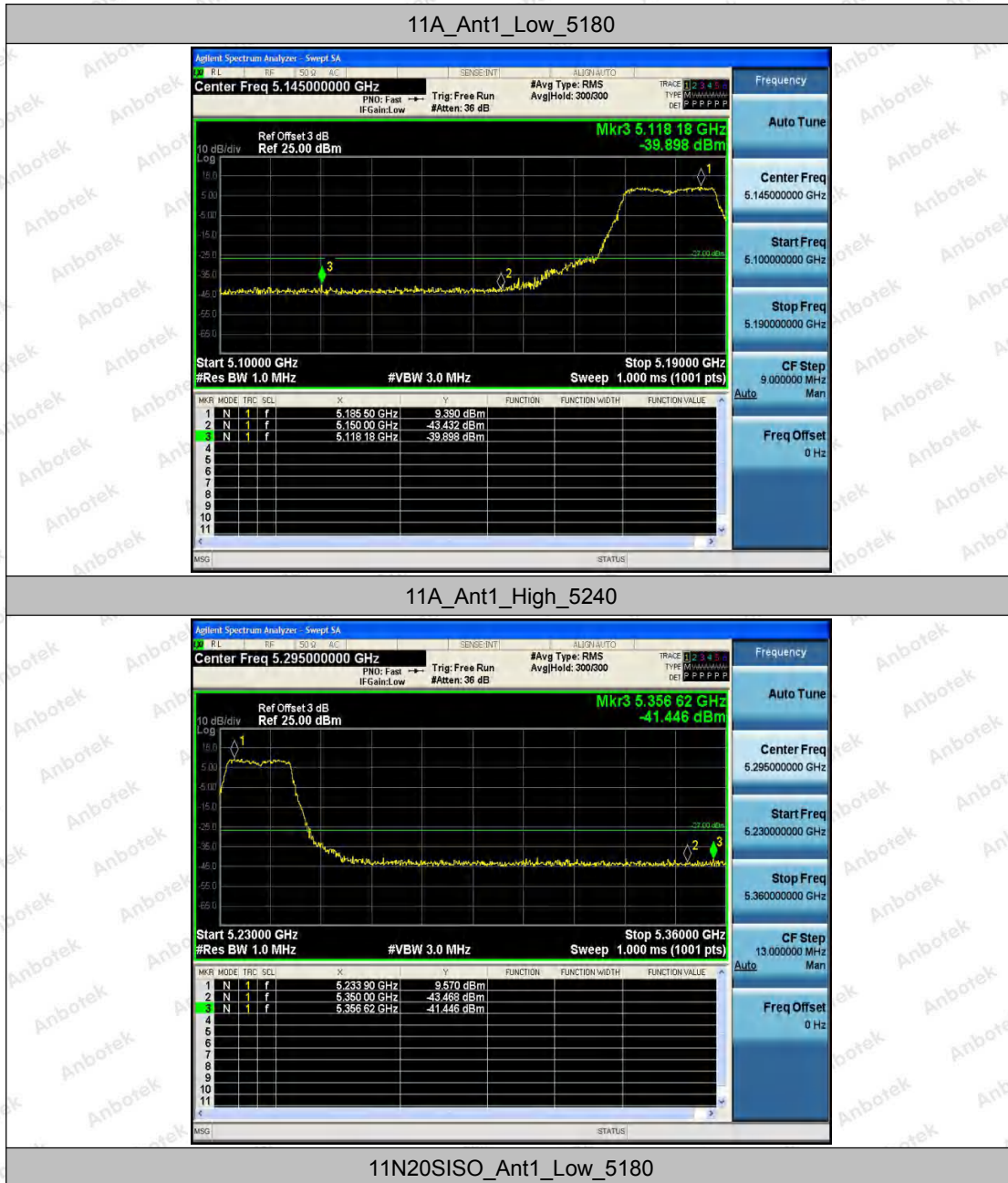
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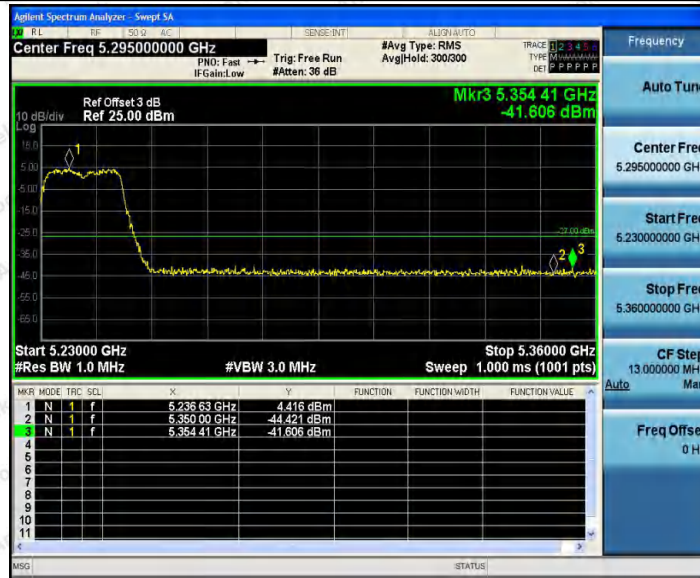
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Test Graphs





11N20SISO_Ant1_High_5240



11N40SISO_Ant1_Low_5190

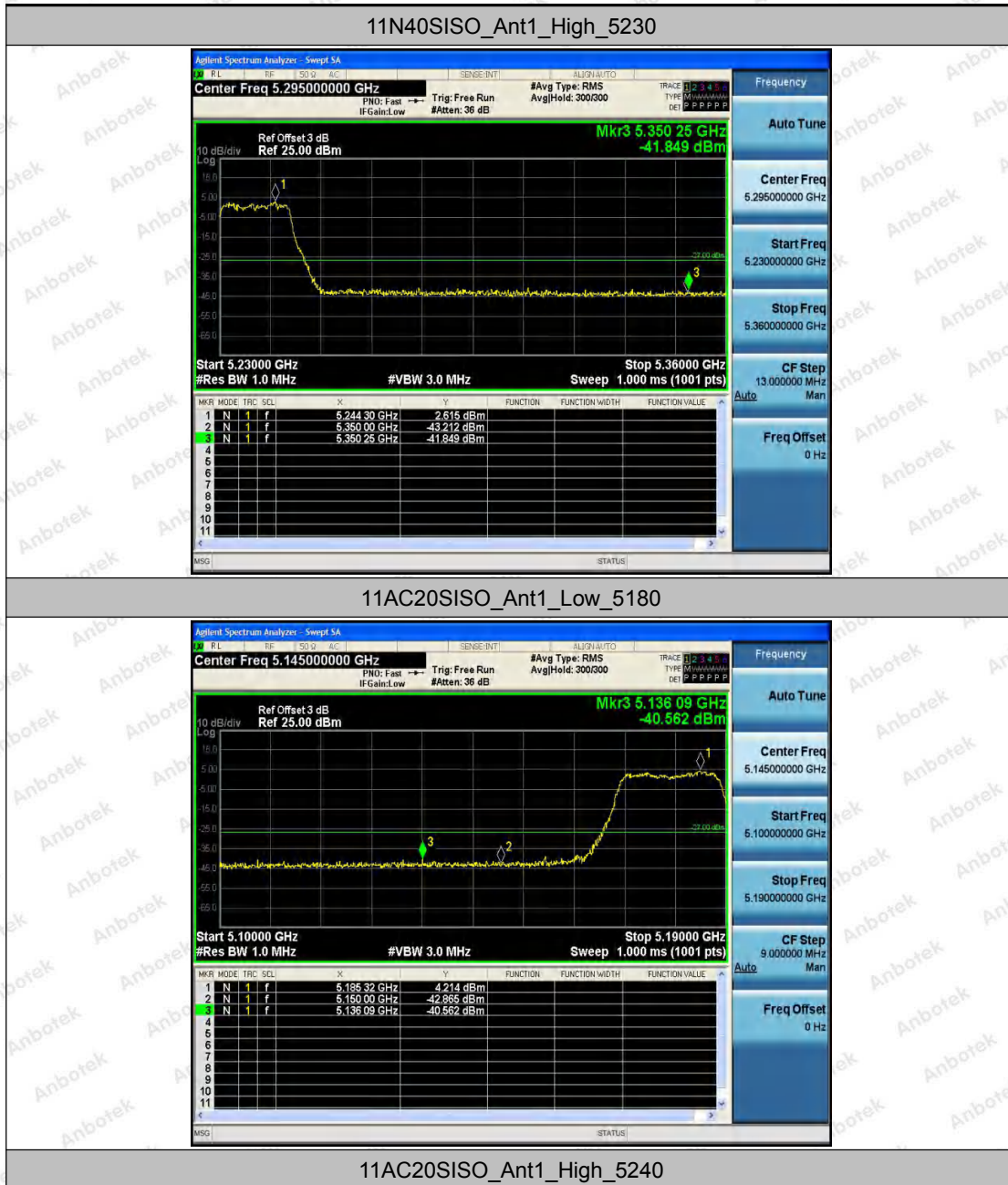


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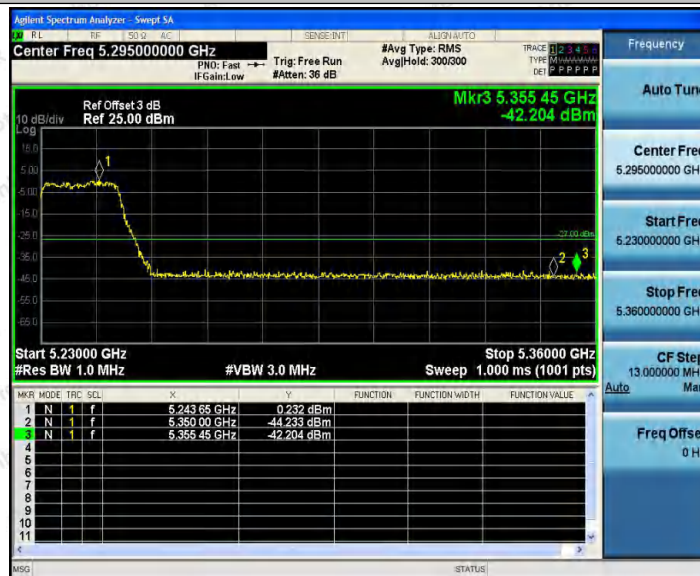
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11AC40SISO_Ant1_Low_5190



11AC40SISO_Ant1_High_5230

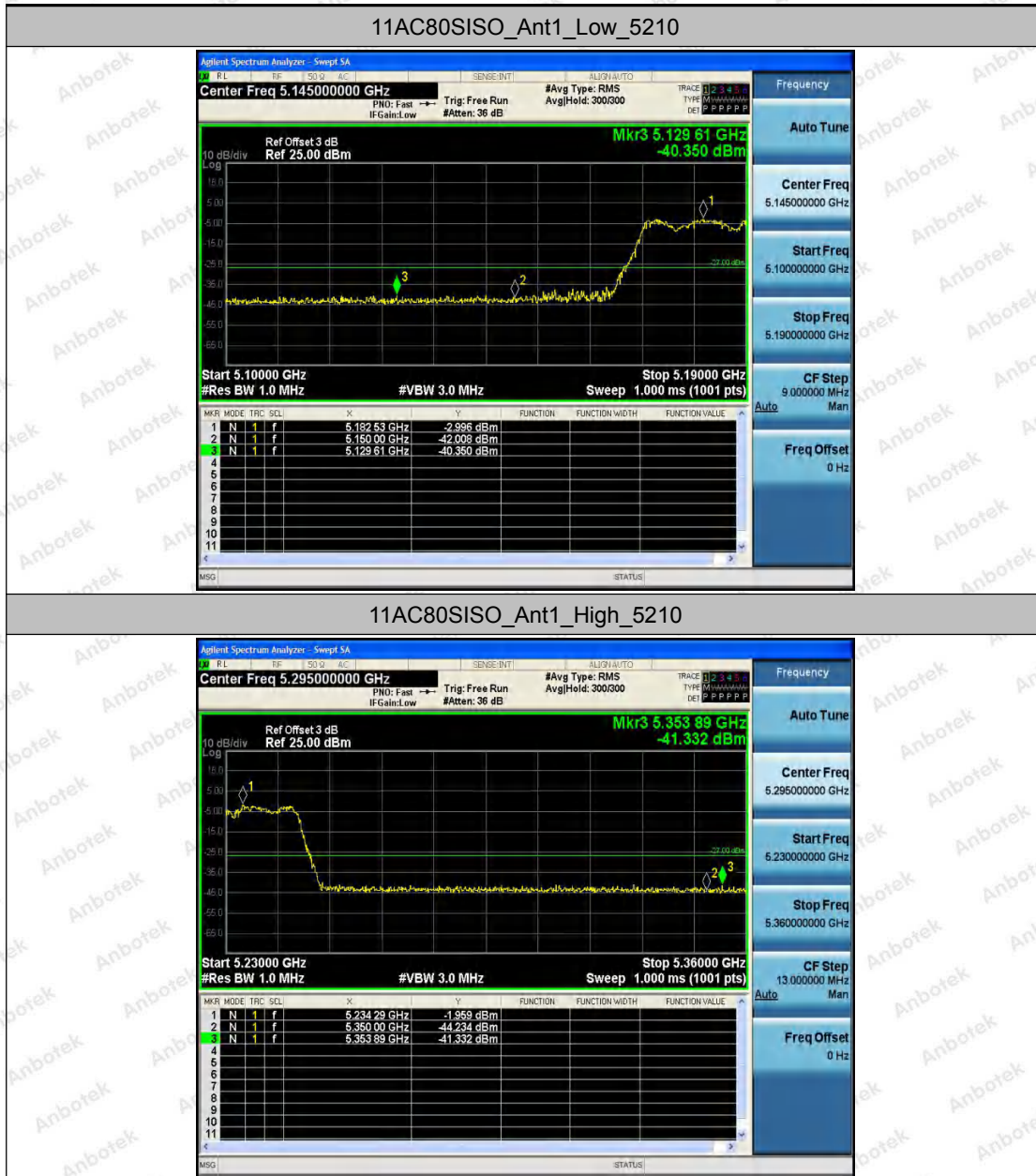


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11A_Ant1_Low_5745



11A_Ant1_High_5825



11N20SISO_Ant1_Low_5745

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11N20SISO_Ant1_High_5825



11N40SISO_Ant1_Low_5755

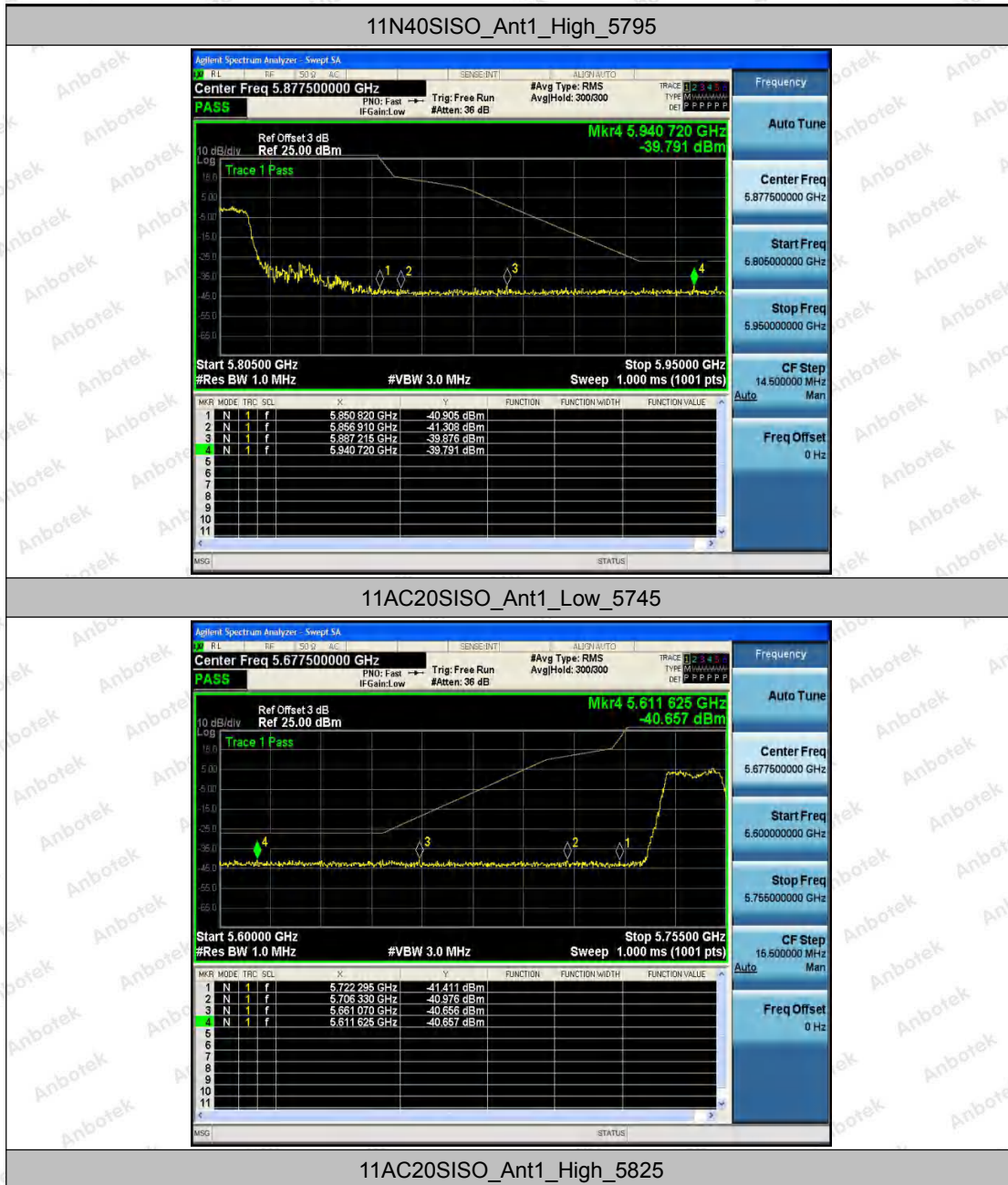


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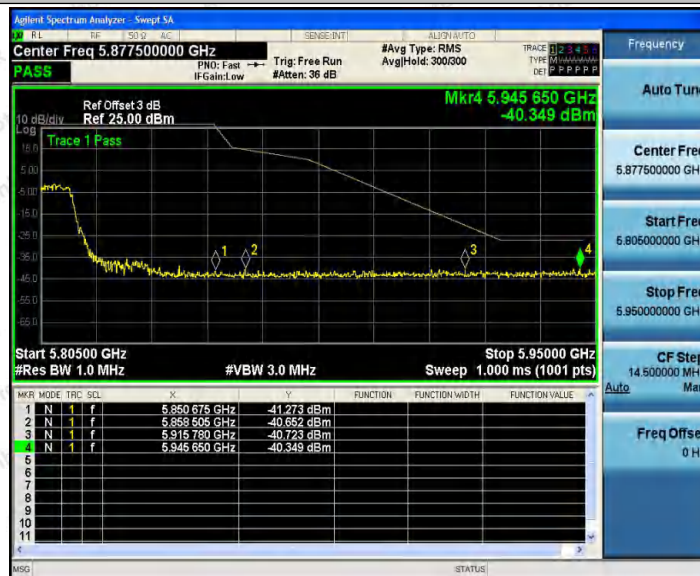
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11AC40SISO_Ant1_Low_5755



11AC40SISO_Ant1_High_5795

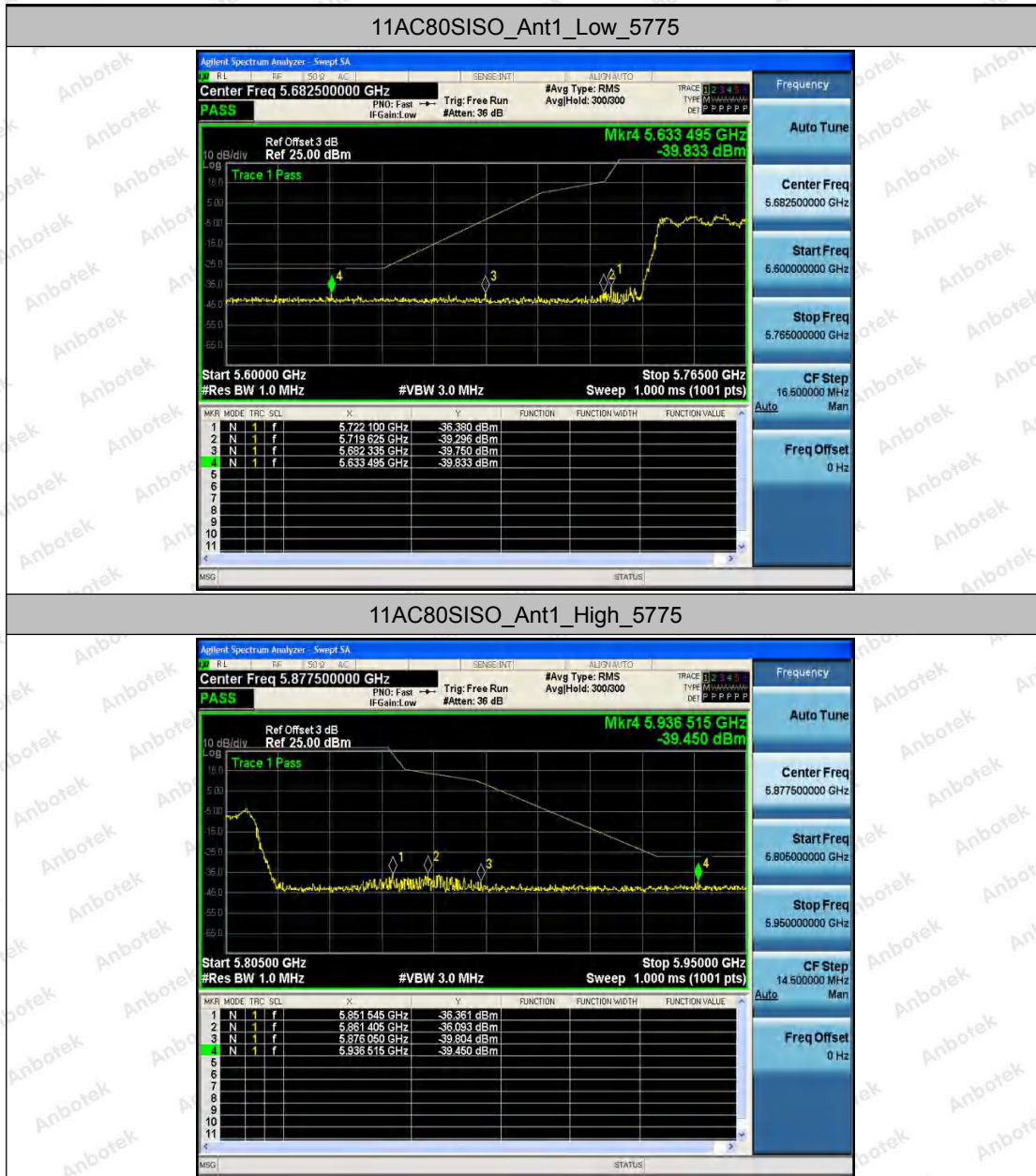


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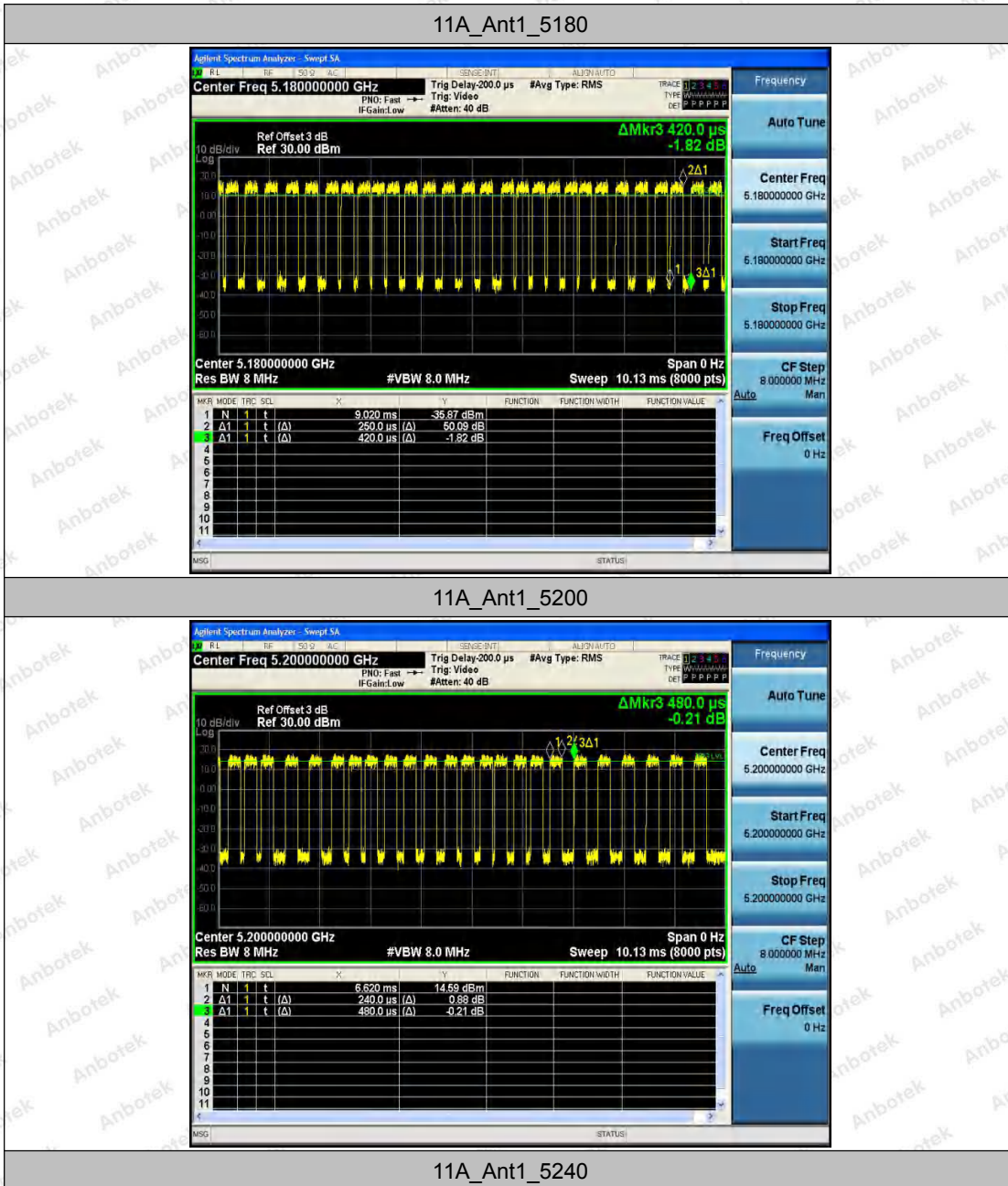
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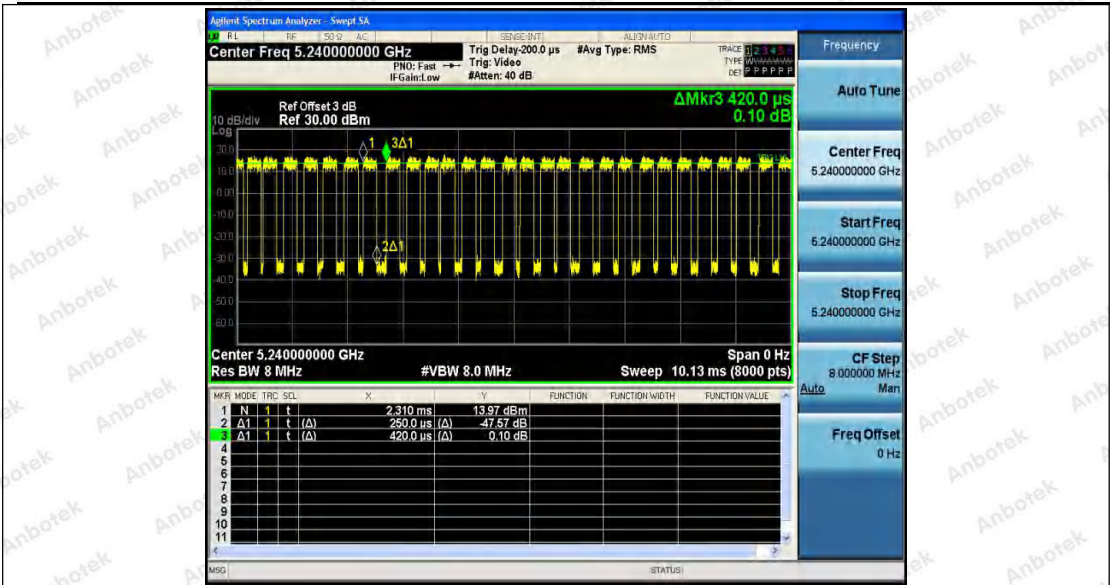
Appendix H: Duty Cycle

Test Result

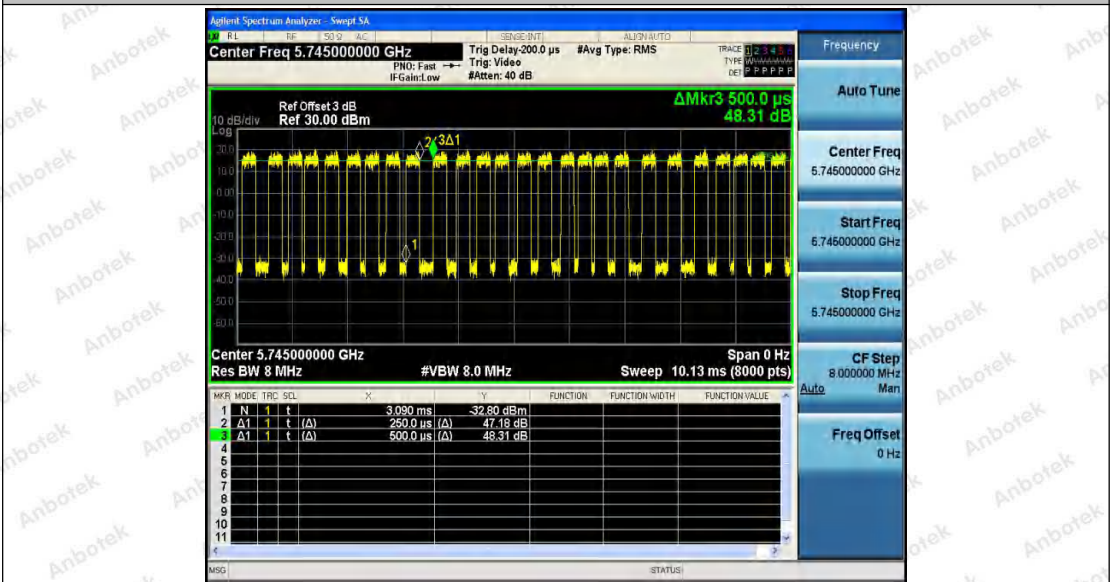
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant1	5180	0.25	0.42	59.52	---	PASS
		5200	0.24	0.48	50.00	---	PASS
		5240	0.25	0.42	59.52	---	PASS
		5745	0.25	0.50	50.00	---	PASS
		5785	0.25	0.42	59.52	---	PASS
		5825	0.25	0.42	59.52	---	PASS
11N20SISO	Ant1	5180	0.23	0.48	47.92	---	PASS
		5200	0.22	0.48	45.83	---	PASS
		5240	0.22	0.48	45.83	---	PASS
		5745	0.23	0.48	47.92	---	PASS
		5785	0.23	0.48	47.92	---	PASS
		5825	0.23	0.48	47.92	---	PASS
11N40SISO	Ant1	5190	0.13	0.67	19.40	---	PASS
		5230	0.13	0.38	34.21	---	PASS
		5755	0.13	0.79	16.46	---	PASS
		5795	0.13	0.39	33.33	---	PASS
11AC20SIS O	Ant1	5180	0.20	0.45	44.44	---	PASS
		5200	0.20	0.45	44.44	---	PASS
		5240	0.20	0.45	44.44	---	PASS
		5745	0.40	1.22	32.79	---	PASS
		5785	0.20	0.46	43.48	---	PASS
		5825	0.20	0.46	43.48	---	PASS
11AC40SIS O	Ant1	5190	0.11	0.35	31.43	---	PASS
		5230	0.12	0.36	33.33	---	PASS
		5755	0.11	0.54	20.37	---	PASS
		5795	0.11	0.51	21.57	---	PASS
11AC80SIS O	Ant1	5210	0.07	0.42	16.67	---	PASS
		5775	0.07	0.32	21.88	---	PASS

Test Graphs

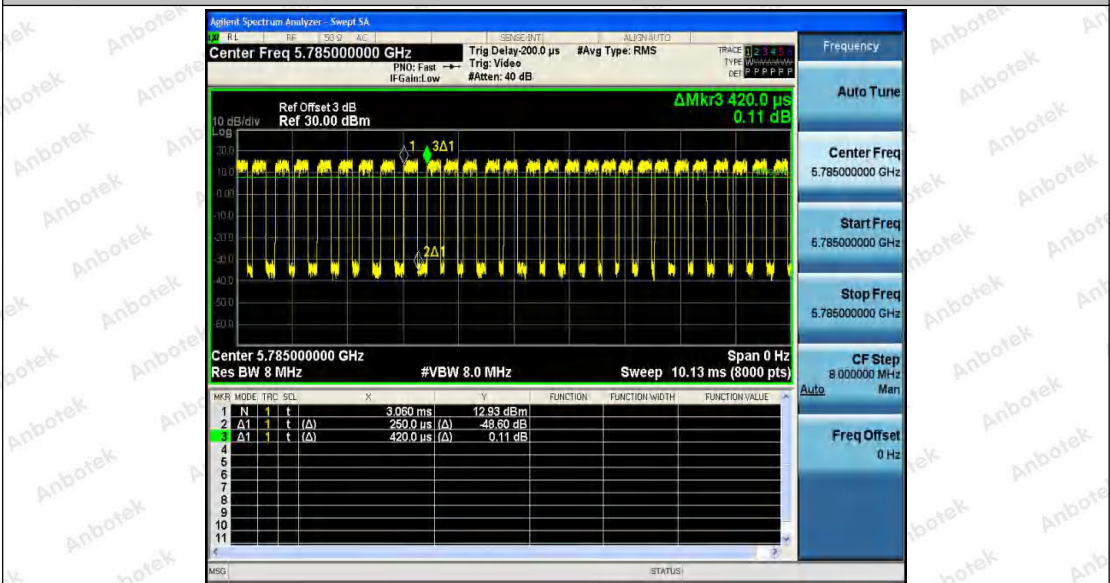




11A_Ant1_5745



11A_Ant1_5785

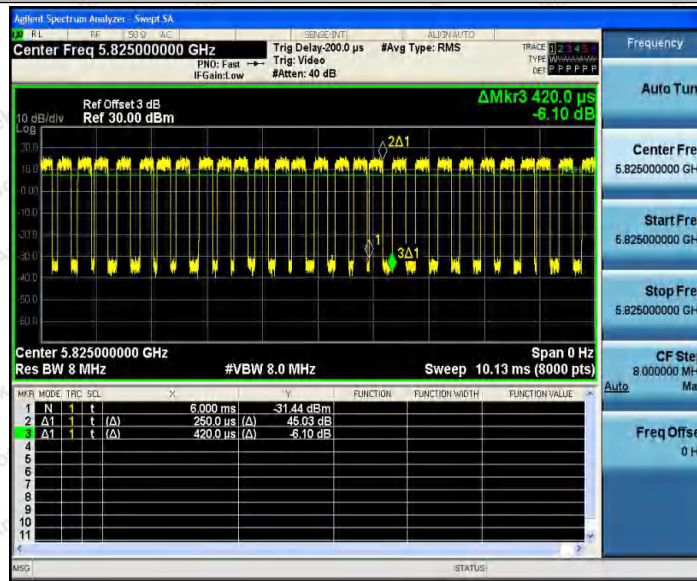


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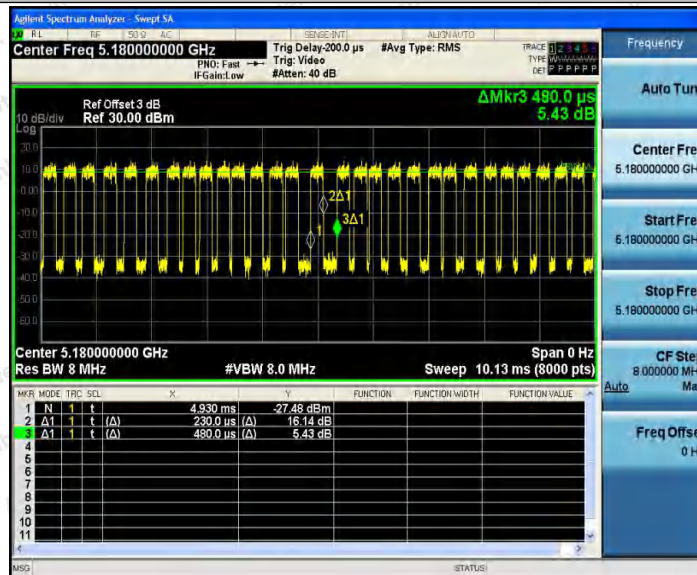
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11A_Ant1_5825



11N20SISO_Ant1_5180



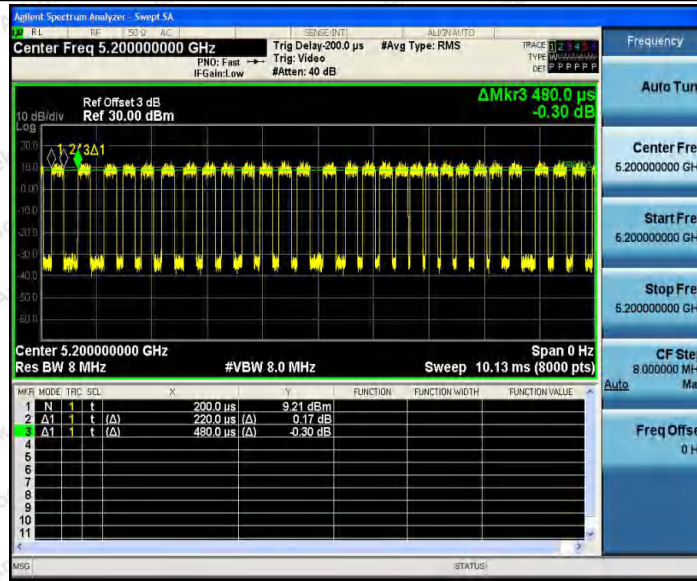
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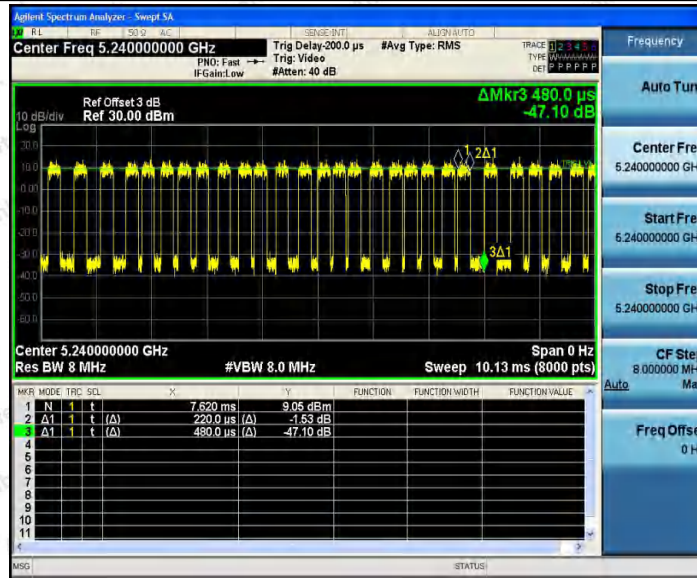
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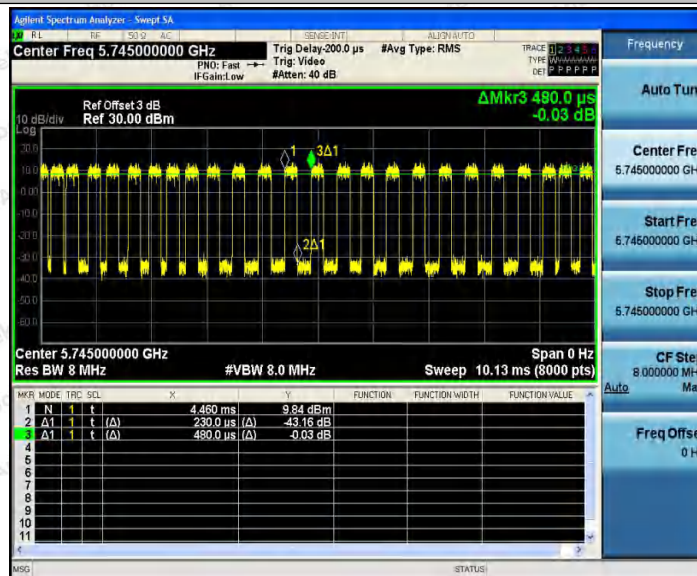
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11N20SISO_Ant1_5240



11N20SISO_Ant1_5745

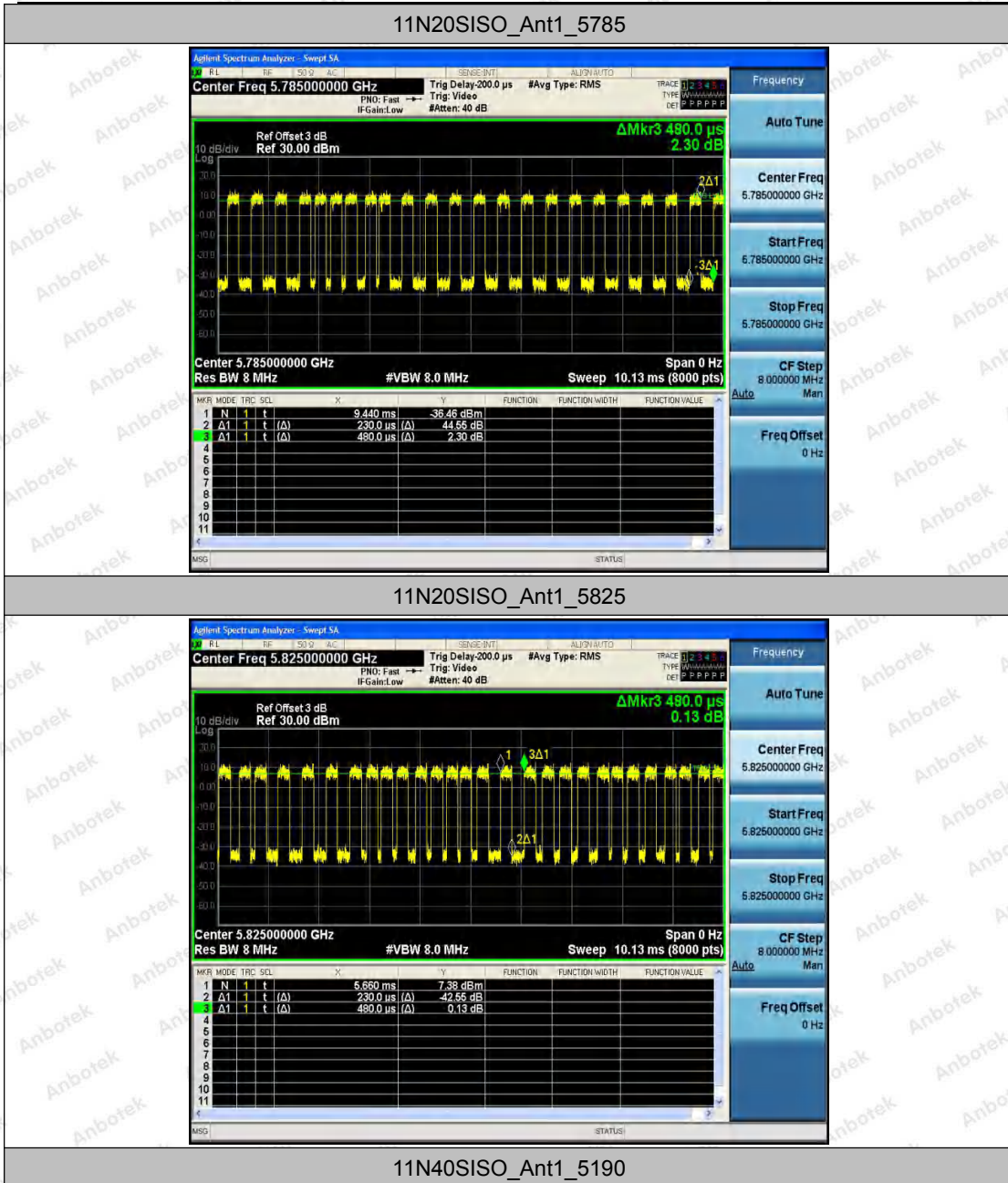


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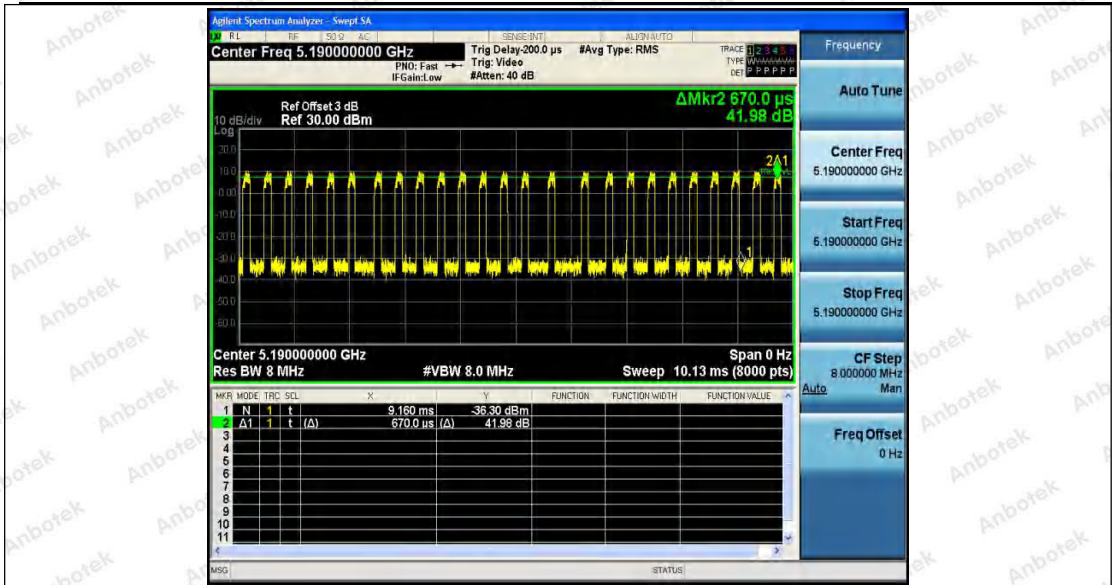


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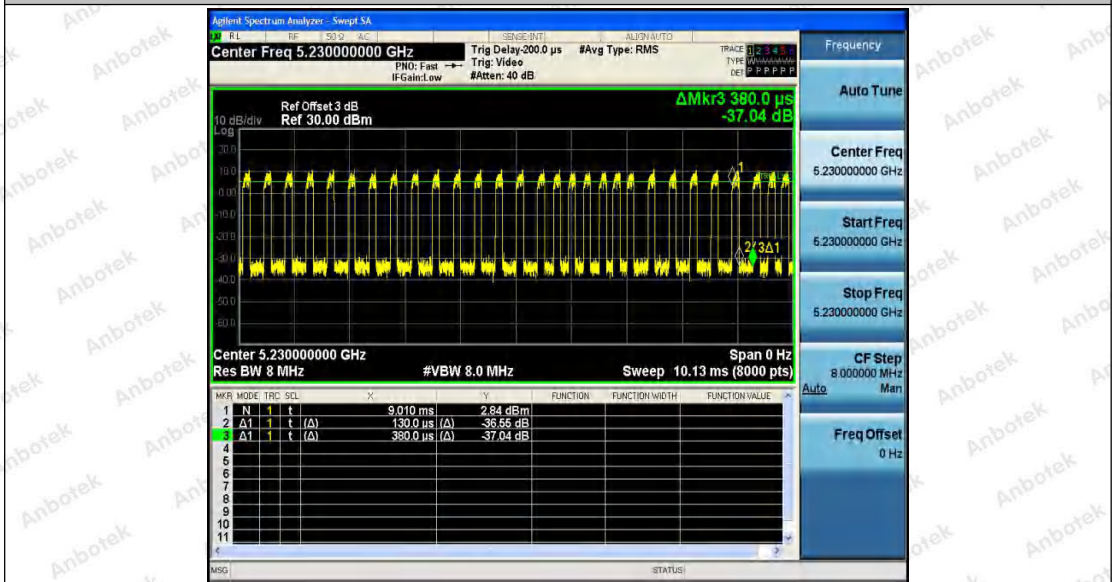
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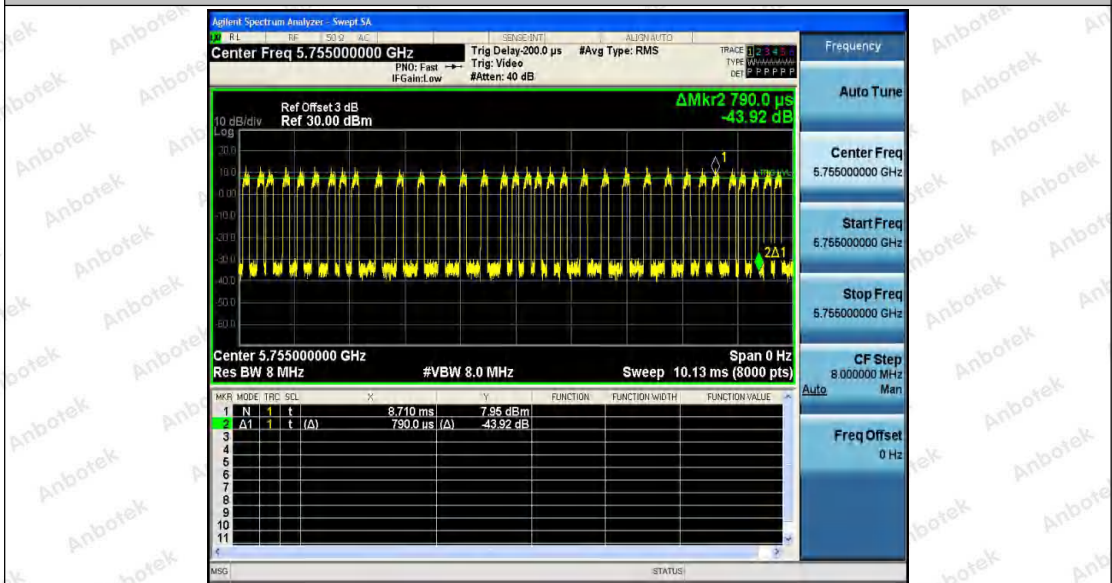
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11N40SISO_Ant1_5230



11N40SISO_Ant1_5755

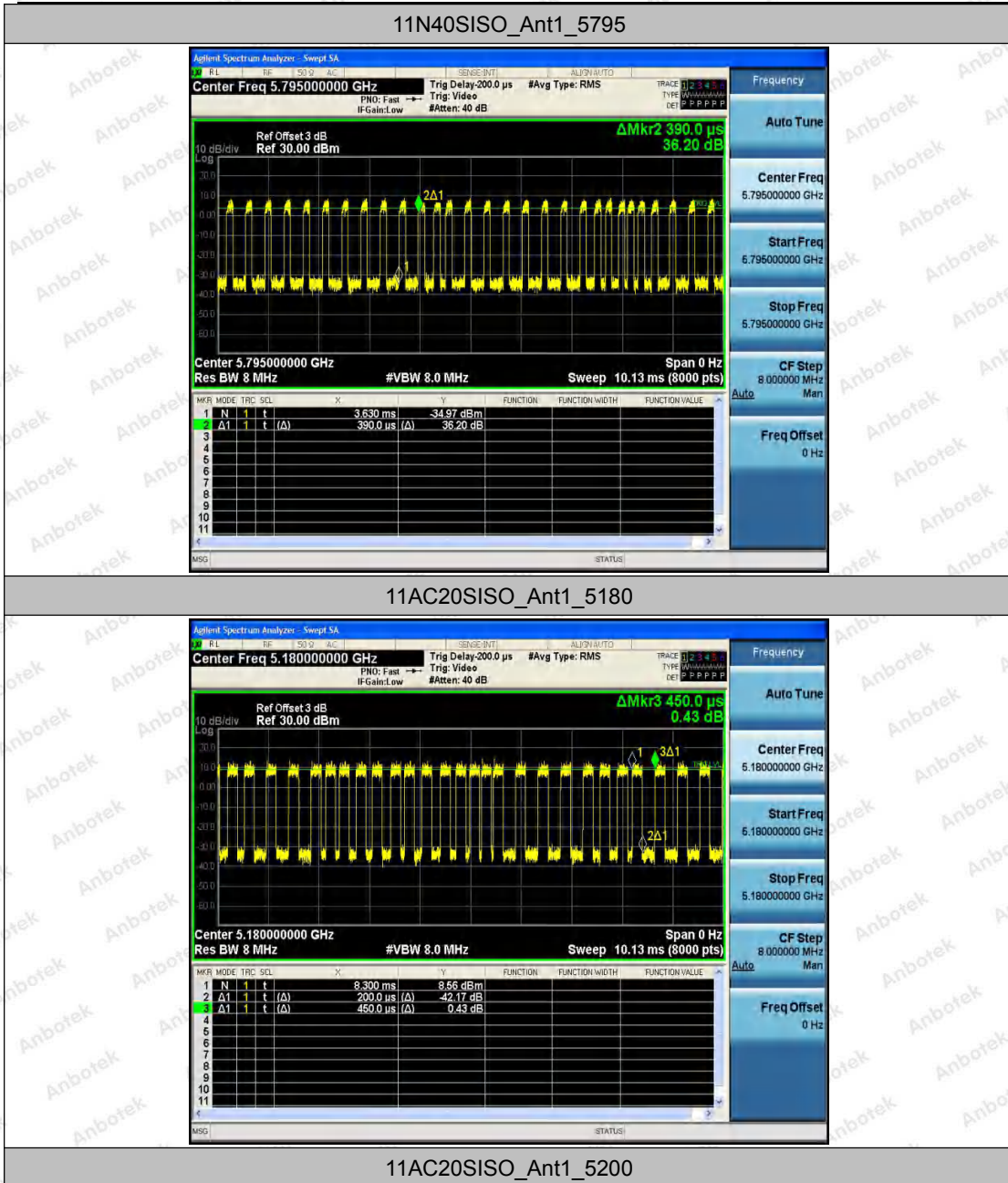


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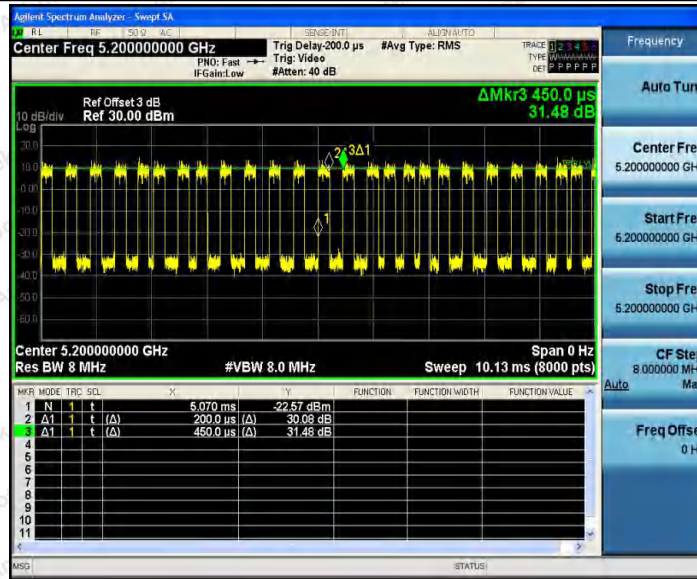


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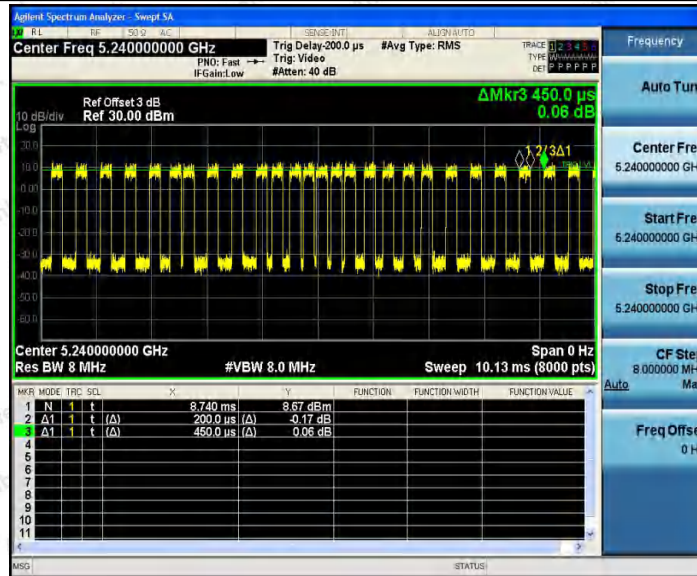
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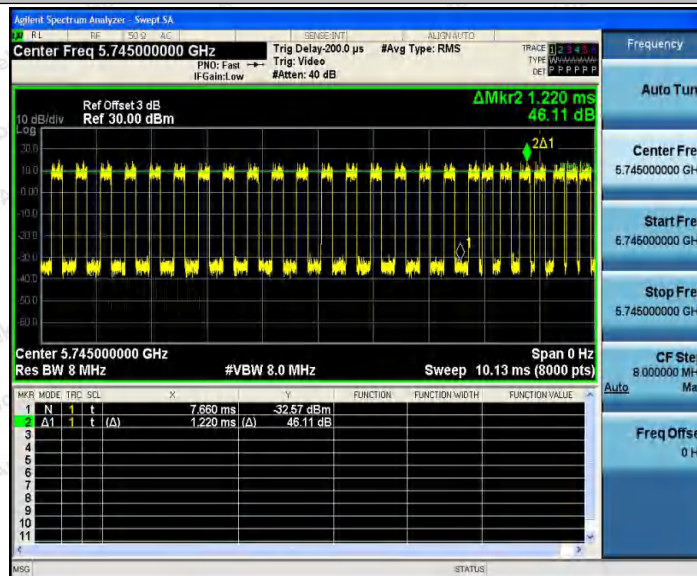
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11AC20SISO_Ant1_5240



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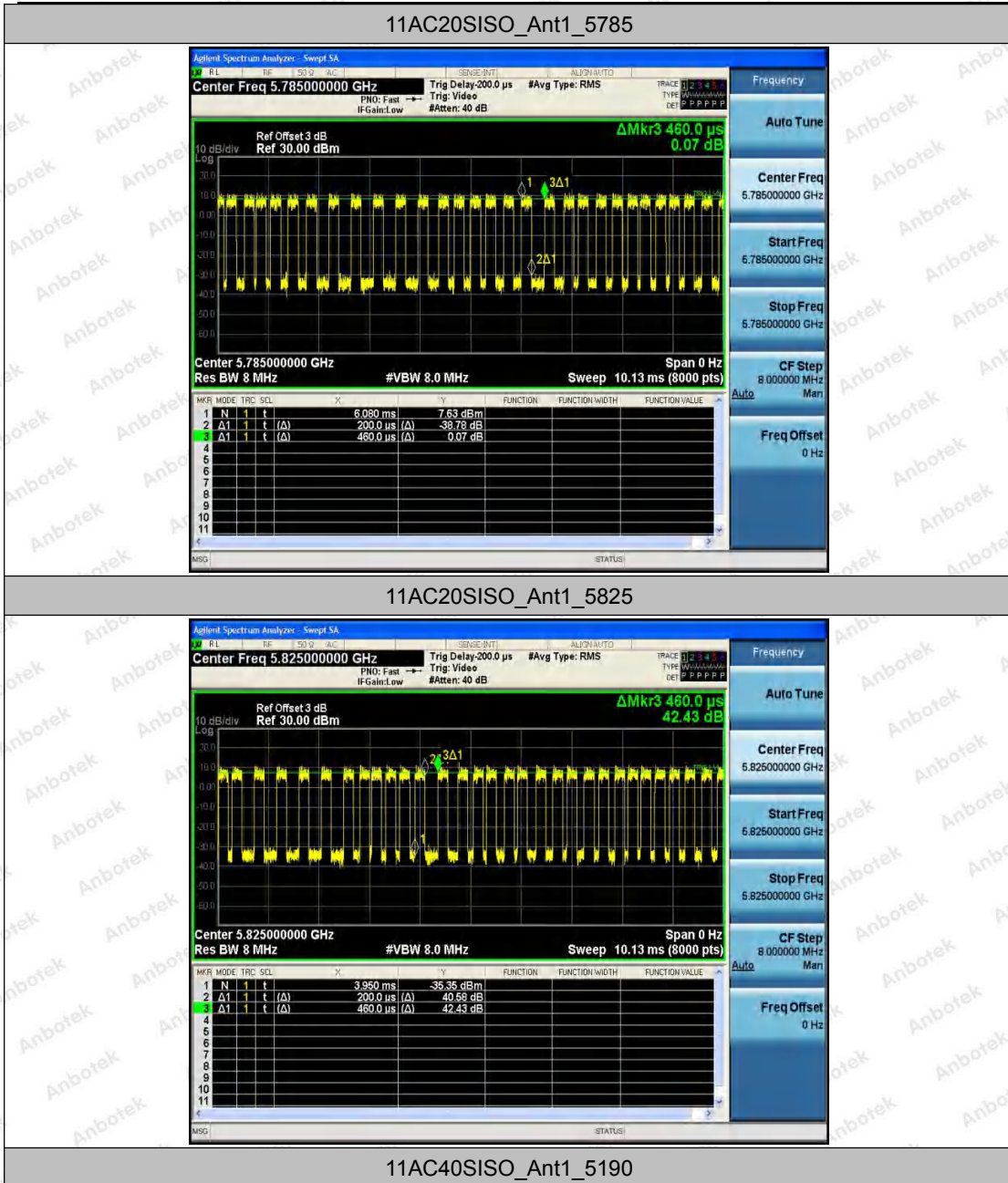


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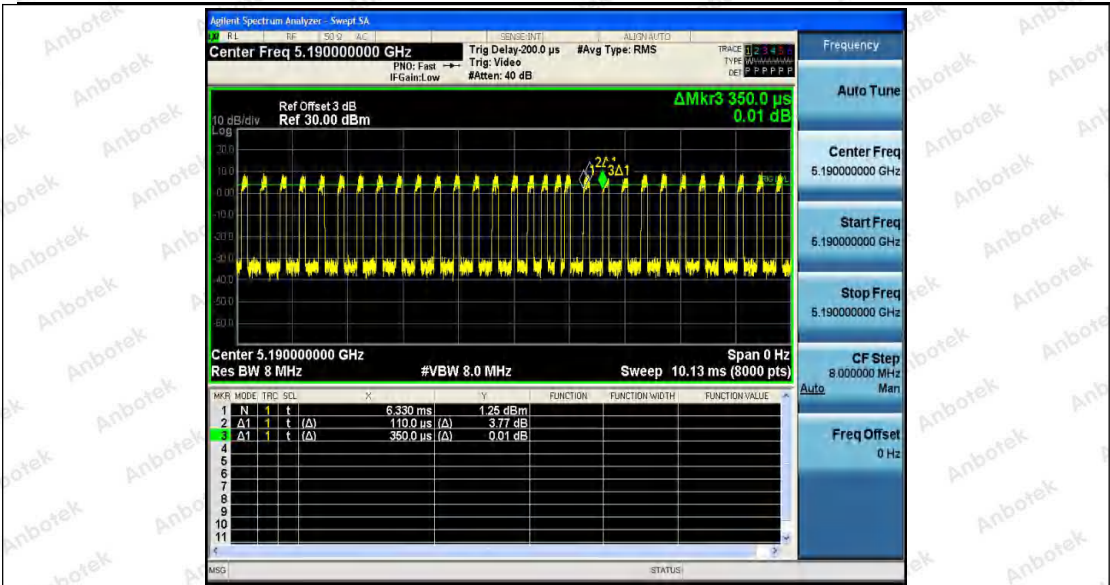


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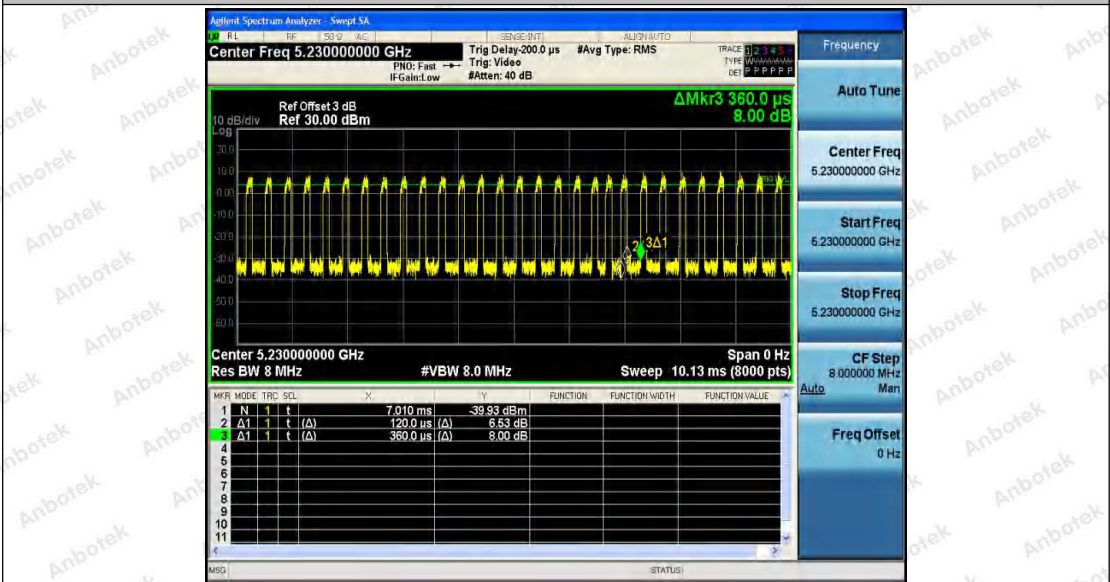
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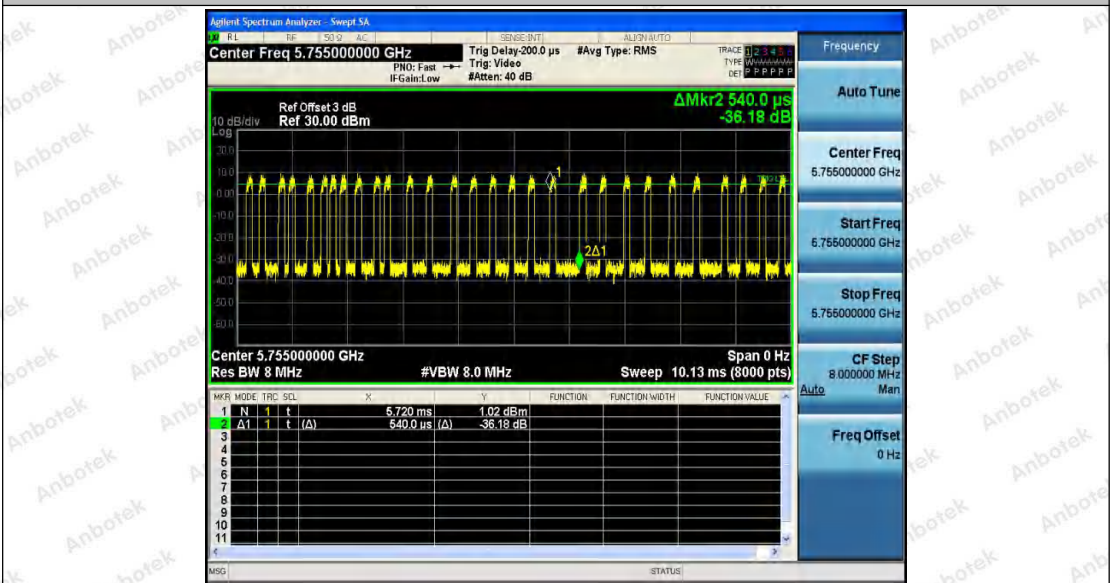
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11AC40SISO_Ant1_5230



11AC40SISO_Ant1_5755

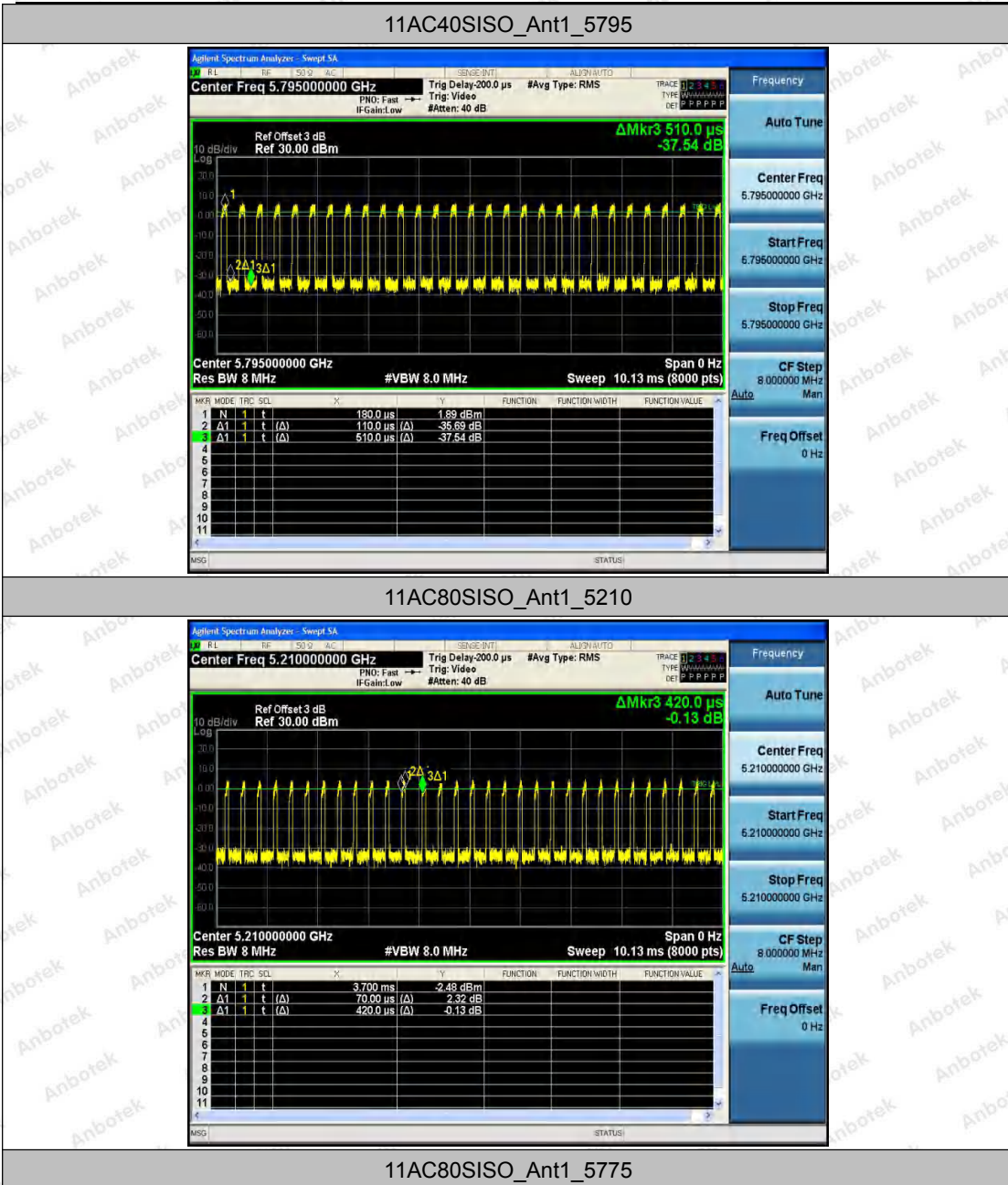


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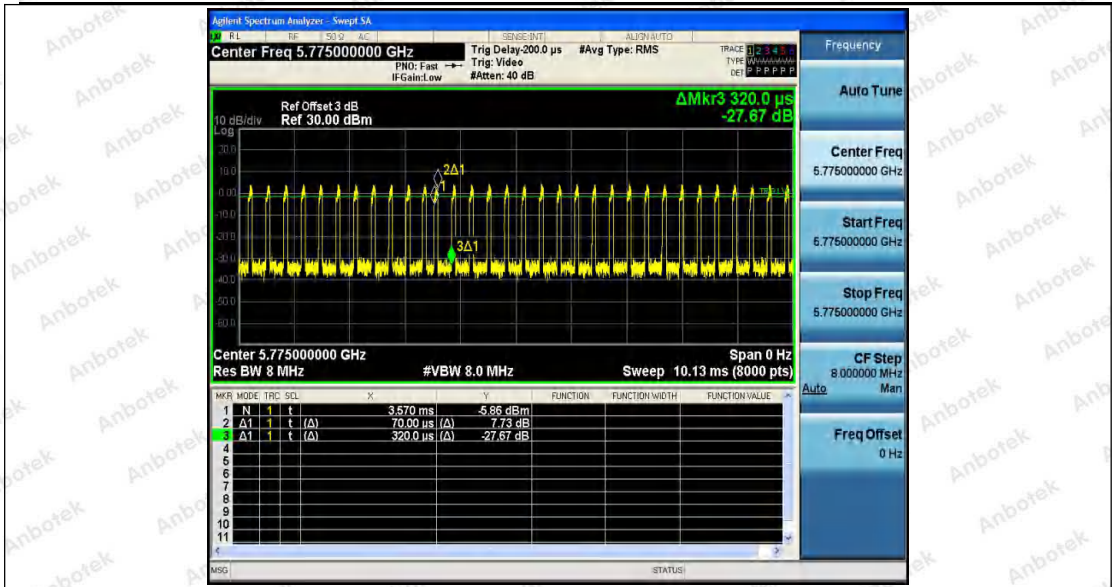
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