



11AC80SISO_Ant2_5530



11AC80SISO_Ant1_5610



11AC80SISO_Ant2_5610



11AC20MIMO_Ant1_5180



11AC20MIMO_Ant2_5180



11AC20MIMO_Ant1_5200



11AC20MIMO_Ant2_5200



11AC20MIMO_Ant1_5240



11AC20MIMO_Ant2_5240



11AC20MIMO_Ant1_5260



11AC20MIMO_Ant2_5260



11AC20MIMO_Ant1_5280



11AC20MIMO_Ant2_5280



11AC20MIMO_Ant1_5320



11AC20MIMO_Ant2_5320



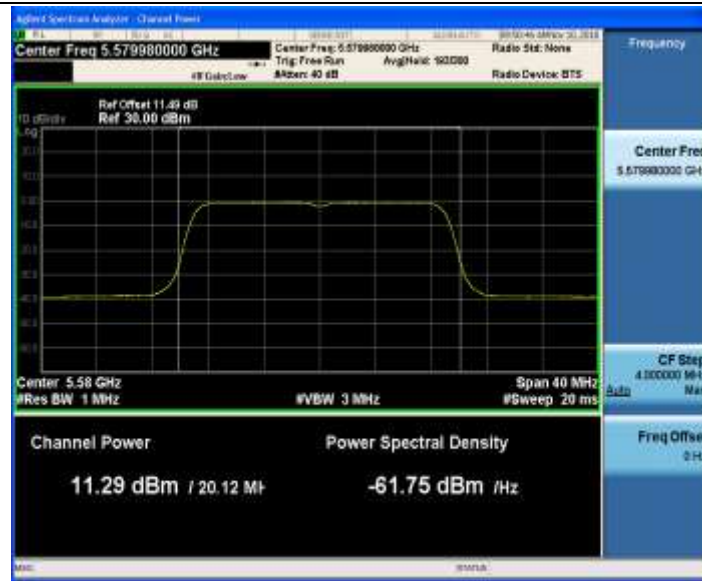
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11AC20MIMO_Ant2_5500



11AC20MIMO_Ant1_5580



11AC20MIMO_Ant2_5580



11AC20MIMO_Ant1_5700



11AC20MIMO_Ant2_5700



11AC40MIMO_Ant1_5190



11AC40MIMO_Ant2_5190



11AC40MIMO_Ant1_5230



11AC40MIMO_Ant2_5230



11AC40MIMO_Ant1_5270



11AC40MIMO_Ant2_5270



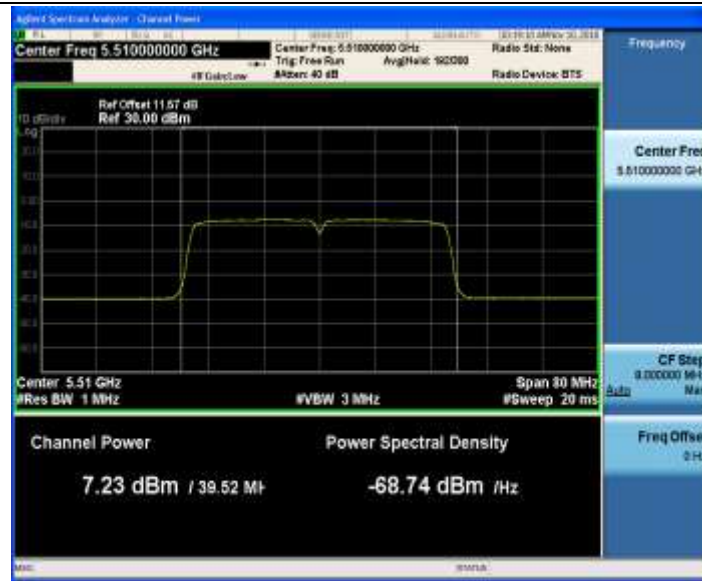
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11AC40MIMO_Ant2_5310



11AC40MIMO_Ant1_5510



11AC40MIMO_Ant2_5510



11AC40MIMO_Ant1_5550



11AC40MIMO_Ant2_5550



11AC40MIMO_Ant1_5670



11AC40MIMO_Ant2_5670



11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210



11AC80MIMO_Ant1_5290



11AC80MIMO_Ant2_5290



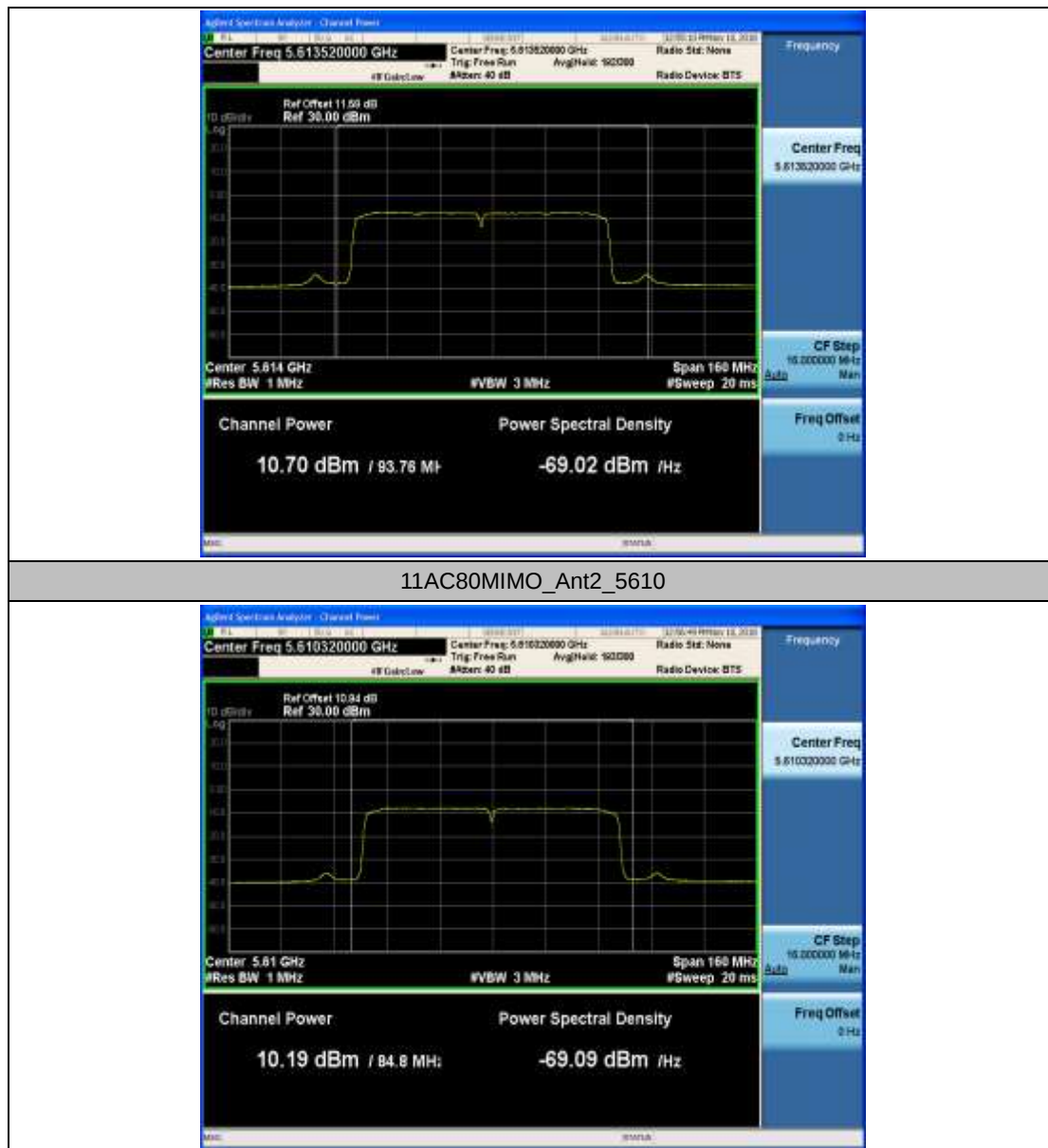
11AC80MIMO_Ant1_5530



11AC80MIMO_Ant2_5530



11AC80MIMO_Ant1_5610





Appendix E: Maximum power spectral density

Test Result

TestMode	Antenna	Channel	Result[dBm/1MHz]	Limit[dBm/1MHz]	Verdict
11A	Ant1	5180	3.49	11	PASS
	Ant2	5180	3.08	11	PASS
	Ant1	5200	3.86	11	PASS
	Ant2	5200	3.67	11	PASS
	Ant1	5240	4.16	11	PASS
	Ant2	5240	3.75	11	PASS
	Ant1	5260	4.22	11	PASS
	Ant2	5260	3.86	11	PASS
	Ant1	5280	4.33	11	PASS
	Ant2	5280	3.96	11	PASS
	Ant1	5320	5.3	11	PASS
	Ant2	5320	4.27	11	PASS
	Ant1	5500	2.38	11	PASS
	Ant2	5500	1.21	11	PASS
	Ant1	5580	4.25	11	PASS
	Ant2	5580	3.92	11	PASS
	Ant1	5700	2.75	11	PASS
	Ant2	5700	1.94	11	PASS
11N20SISO	Ant1	5180	1.13	11	PASS
	Ant2	5180	0.61	11	PASS
	Ant1	5200	1.24	11	PASS
	Ant2	5200	0.66	11	PASS
	Ant1	5240	1.71	11	PASS
	Ant2	5240	0.82	11	PASS
	Ant1	5260	1.79	11	PASS
	Ant2	5260	1.22	11	PASS
	Ant1	5280	1.63	11	PASS
	Ant2	5280	1.15	11	PASS
	Ant1	5320	2.47	11	PASS
	Ant2	5320	1.62	11	PASS
	Ant1	5500	1.94	11	PASS
	Ant2	5500	0.8	11	PASS



	Ant1	5580	1.77	11	PASS
	Ant2	5580	0.99	11	PASS
	Ant1	5700	0.32	11	PASS
	Ant2	5700	-0.43	11	PASS
11N40SISO	Ant1	5190	-3.44	11	PASS
	Ant2	5190	-3.38	11	PASS
	Ant1	5230	-1.87	11	PASS
	Ant2	5230	-1.71	11	PASS
	Ant1	5270	-1.44	11	PASS
	Ant2	5270	-1.78	11	PASS
	Ant1	5310	-4.21	11	PASS
	Ant2	5310	-4.42	11	PASS
	Ant1	5510	-4.72	11	PASS
	Ant2	5510	-4.92	11	PASS
		5550	-2.05	11	PASS
	Ant1	5670	-1.7	11	PASS
	Ant2	5670	-2.2	11	PASS
11A-CDD	Ant1	5180	1.46	11	PASS
	Ant2	5180	2.52	11	PASS
	total	5180	5.03	11	PASS
	Ant1	5200	1.92	11	PASS
	Ant2	5200	2.37	11	PASS
	total	5200	5.16	11	PASS
	Ant1	5240	2.4	11	PASS
	Ant2	5240	3.1	11	PASS
	total	5240	5.77	11	PASS
	Ant1	5260	3.22	11	PASS
	Ant2	5260	2.66	11	PASS
	total	5260	5.96	11	PASS
	Ant1	5280	3.65	11	PASS
	Ant2	5280	2.84	11	PASS
	total	5280	6.27	11	PASS
	Ant1	5320	3.86	11	PASS
	Ant2	5320	3.57	11	PASS
	total	5320	6.73	11	PASS
	Ant1	5500	0.83	11	PASS
	Ant2	5500	0.24	11	PASS



	total	5500	3.56	11	PASS
	Ant1	5580	3.17	11	PASS
	Ant2	5580	2.9	11	PASS
	total	5580	6.05	11	PASS
	Ant1	5700	2.14	11	PASS
	Ant2	5700	1.15	11	PASS
	total	5700	4.68	11	PASS
11N20MIMO	Ant1	5180	-0.83	11	PASS
	Ant2	5180	1.05	11	PASS
	total	5180	3.22	11	PASS
	Ant1	5200	-0.88	11	PASS
	Ant2	5200	0.75	11	PASS
	total	5200	3.02	11	PASS
	Ant1	5240	-0.2	11	PASS
	Ant2	5240	0.77	11	PASS
	total	5240	3.32	11	PASS
	Ant1	5260	0.05	11	PASS
	Ant2	5260	0.92	11	PASS
	total	5260	3.52	11	PASS
	Ant1	5280	0.5	11	PASS
	Ant2	5280	0.63	11	PASS
	total	5280	3.58	11	PASS
	Ant1	5320	0.79	11	PASS
	Ant2	5320	0.76	11	PASS
	total	5320	3.79	11	PASS
	Ant1	5500	0.75	11	PASS
	Ant2	5500	-0.05	11	PASS
	total	5500	3.38	11	PASS
	Ant1	5580	0.35	11	PASS
	Ant2	5580	0.31	11	PASS
	total	5580	3.34	11	PASS
	Ant1	5700	-1.28	11	PASS
	Ant2	5700	-1.51	11	PASS
	total	5700	1.62	11	PASS
11N40MIMO	Ant1	5190	-4.08	11	PASS
	Ant2	5190	-4.96	11	PASS
	total	5190	-1.54	11	PASS



	Ant1	5230	-2.91	11	PASS
	Ant2	5230	-3.27	11	PASS
	total	5230	-0.08	11	PASS
	Ant1	5270	-2.26	11	PASS
	Ant2	5270	-2.45	11	PASS
	total	5270	0.66	11	PASS
	Ant1	5310	-5.14	11	PASS
	Ant2	5310	-5.76	11	PASS
	total	5310	-2.43	11	PASS
	Ant1	5510	-5.97	11	PASS
	Ant2	5510	-6.69	11	PASS
	total	5510	-3.30	11	PASS
	Ant1	5550	-2.35	11	PASS
	Ant2	5550	-3.09	11	PASS
	total	5550	0.31	11	PASS
	Ant1	5670	-2.87	11	PASS
	Ant2	5670	-3.35	11	PASS
	total	5670	-0.09	11	PASS
11AC20SISO	Ant1	5180	1.2	11	PASS
	Ant2	5180	0.52	11	PASS
	Ant1	5200	1.2	11	PASS
	Ant2	5200	0.96	11	PASS
	Ant1	5240	1.28	11	PASS
	Ant2	5240	0.96	11	PASS
	Ant1	5260	1.28	11	PASS
	Ant2	5260	1.18	11	PASS
	Ant1	5280	1.45	11	PASS
	Ant2	5280	1.19	11	PASS
	Ant1	5320	2.25	11	PASS
	Ant2	5320	2.24	11	PASS
	Ant1	5500	1.32	11	PASS
	Ant2	5500	1	11	PASS
	Ant1	5580	1.52	11	PASS
	Ant2	5580	1.08	11	PASS
	Ant1	5700	0.18	11	PASS
	Ant2	5700	-0.39	11	PASS
11AC40SISO	Ant1	5190	-2.84	11	PASS



	Ant2	5190	-3.36	11	PASS
	Ant1	5230	-1.66	11	PASS
	Ant2	5230	-1.94	11	PASS
	Ant1	5270	-1.51	11	PASS
	Ant2	5270	-1.54	11	PASS
	Ant1	5310	-3.97	11	PASS
	Ant2	5310	-4.61	11	PASS
	Ant1	5510	-4.77	11	PASS
	Ant2	5510	-5.35	11	PASS
	Ant1	5550	-1.58	11	PASS
	Ant2	5550	-1.89	11	PASS
	Ant1	5670	-1.61	11	PASS
	Ant2	5670	-1.99	11	PASS
11AC80SISO	Ant1	5210	-7.41	11	PASS
	Ant2	5210	-7.97	11	PASS
	Ant1	5290	-8.56	11	PASS
	Ant2	5290	-9.2	11	PASS
	Ant1	5530	-11.48	11	PASS
	Ant2	5530	-11.89	11	PASS
	Ant1	5610	-4.23	11	PASS
	Ant2	5610	-4.5	11	PASS
11AC20MIMO	Ant1	5180	-0.45	11	PASS
	Ant2	5180	-0.38	11	PASS
	total	5180	2.60	11	PASS
	Ant1	5200	-0.42	11	PASS
	Ant2	5200	-0.21	11	PASS
	total	5200	2.70	11	PASS
	Ant1	5240	0.19	11	PASS
	Ant2	5240	0.06	11	PASS
	total	5240	3.14	11	PASS
	Ant1	5260	0.35	11	PASS
	Ant2	5260	0.49	11	PASS
	total	5260	3.43	11	PASS
	Ant1	5280	0.6	11	PASS
	Ant2	5280	0.33	11	PASS
	total	5280	3.48	11	PASS
	Ant1	5320	1.01	11	PASS



	Ant2	5320	0.79	11	PASS
	total	5320	3.91	11	PASS
	Ant1	5500	0.7	11	PASS
	Ant2	5500	0.13	11	PASS
	total	5500	3.43	11	PASS
	Ant1	5580	0.84	11	PASS
	Ant2	5580	0.48	11	PASS
	total	5580	3.67	11	PASS
	Ant1	5700	-0.8	11	PASS
	Ant2	5700	-1.17	11	PASS
	total	5700	2.03	11	PASS
11AC40MIMO	Ant1	5190	-4.5	11	PASS
	Ant2	5190	-4.38	11	PASS
	total	5190	-1.43	11	PASS
	Ant1	5230	-2.64	11	PASS
	Ant2	5230	-2.85	11	PASS
	total	5230	0.27	11	PASS
	Ant1	5270	-2.08	11	PASS
	Ant2	5270	-1.86	11	PASS
	total	5270	1.04	11	PASS
	Ant1	5310	-4.95	11	PASS
	Ant2	5310	-5.58	11	PASS
	total	5310	-2.24	11	PASS
	Ant1	5510	-6.04	11	PASS
	Ant2	5510	-6.49	11	PASS
	total	5510	-3.25	11	PASS
	Ant1	5550	-2.75	11	PASS
	Ant2	5550	-2.7	11	PASS
	total	5550	0.29	11	PASS
	Ant1	5670	-2.69	11	PASS
	Ant2	5670	-2.7	11	PASS
	total	5670	0.32	11	PASS
11AC80MIMO	Ant1	5210	-8.4	11	PASS
	Ant2	5210	-9.1	11	PASS
	total	5210	-5.73	11	PASS
	Ant1	5290	-9.28	11	PASS
	Ant2	5290	-10.12	11	PASS



	total	5290	-6.67	11	PASS
	Ant1	5530	-13.61	11	PASS
	Ant2	5530	-13.45	11	PASS
	total	5530	-10.52	11	PASS
	Ant1	5610	-5.63	11	PASS
	Ant2	5610	-5.85	11	PASS
	total	5610	-2.73	11	PASS

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



Test Graphs

11A_Ant1_5180



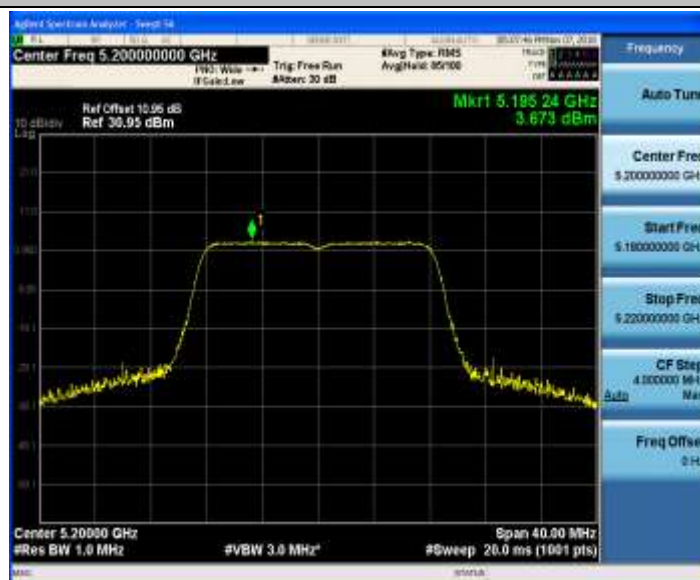
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11A_Ant1_5200



11A_Ant2_5200



11A_Ant1_5240



11A_Ant2_5240



11A_Ant1_5260



11A_Ant2_5260



11A_Ant1_5280



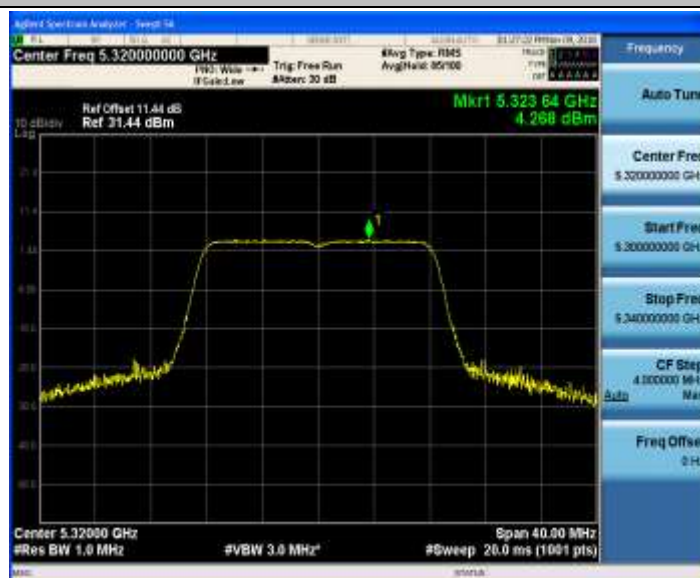
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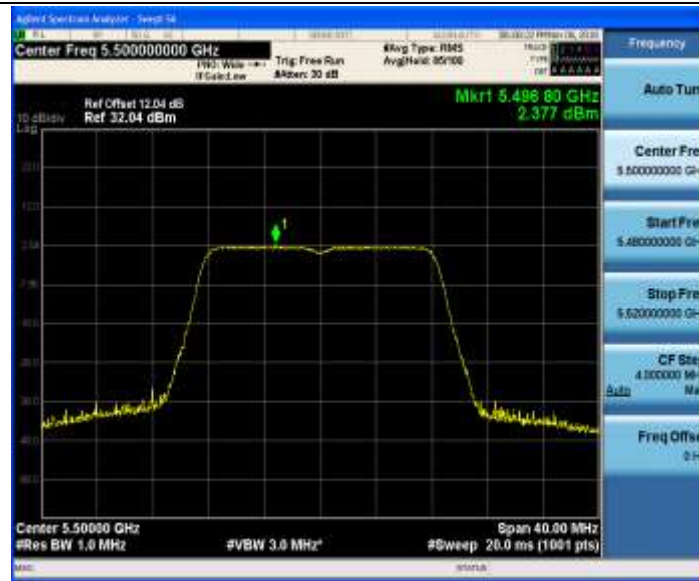
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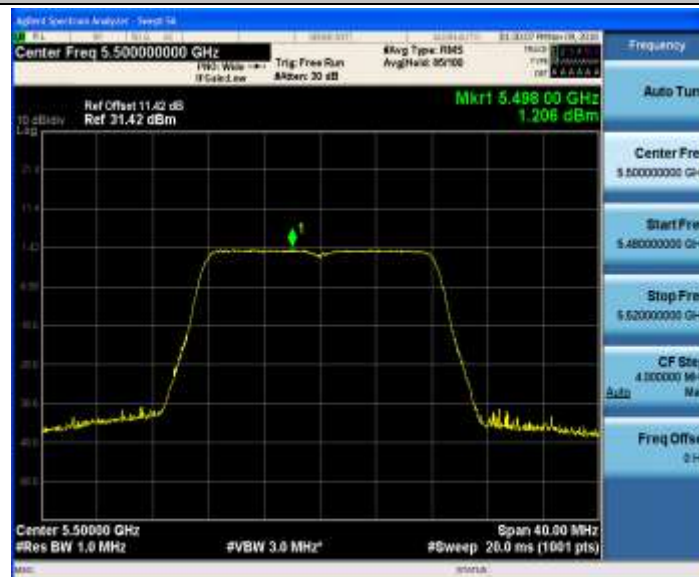
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11A_Ant1_5500



11A_Ant2_5500



11A_Ant1_5580



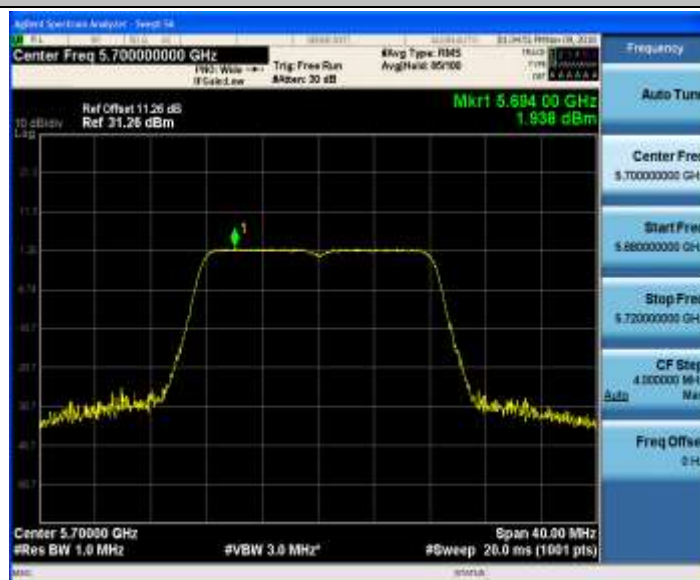
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11A_Ant1_5700



11A_Ant2_5700



11N20SISO_Ant1_5180



11N20SISO_Ant2_5180



11N20SISO_Ant1_5200



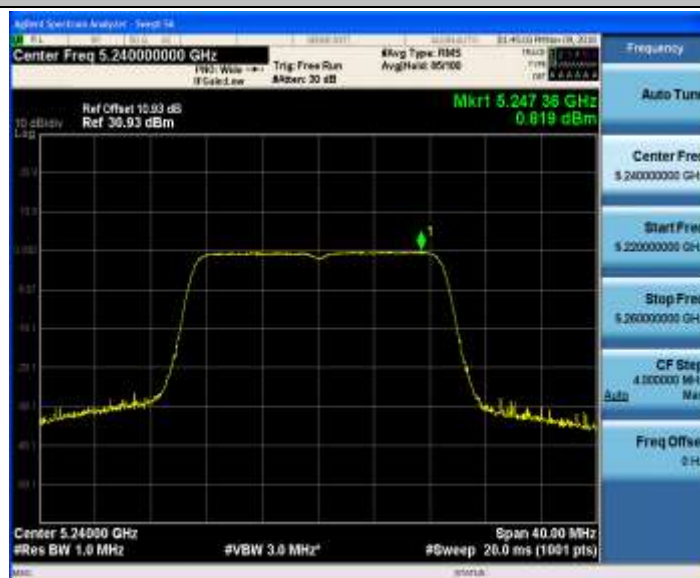
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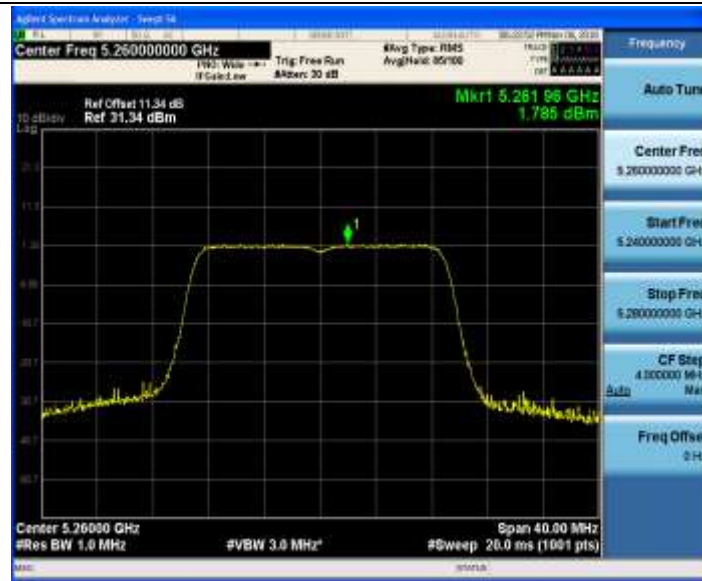
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11N20SISO_Ant2_5240



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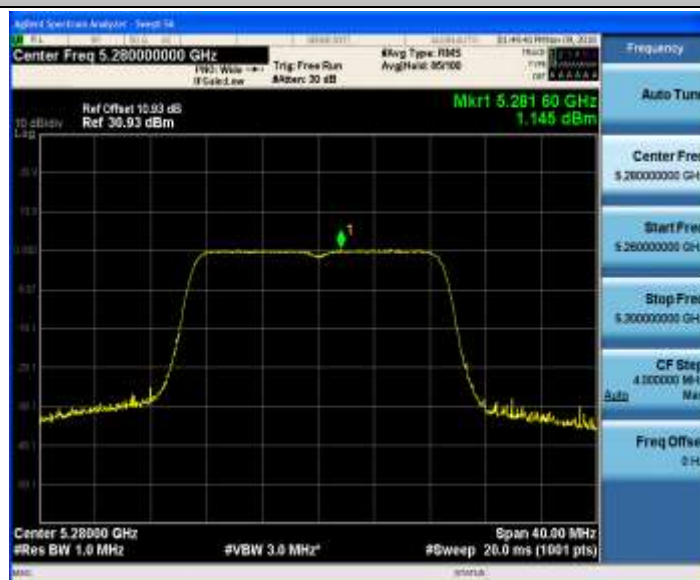
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11N20SISO_Ant1_5280



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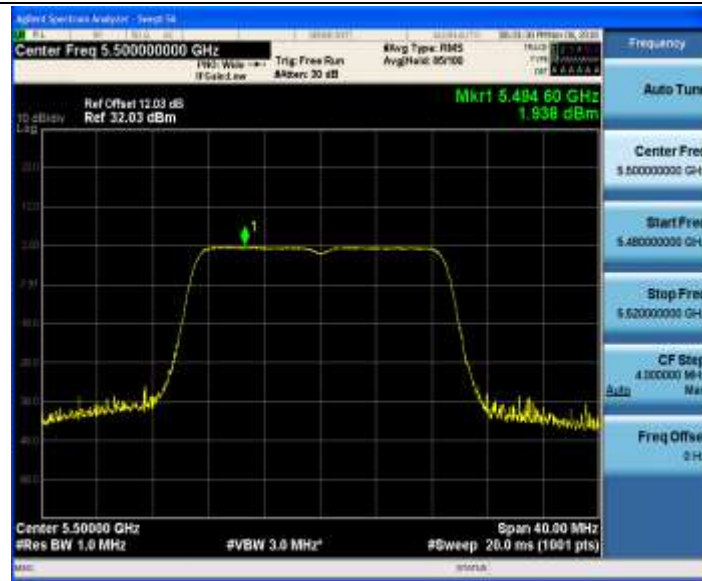
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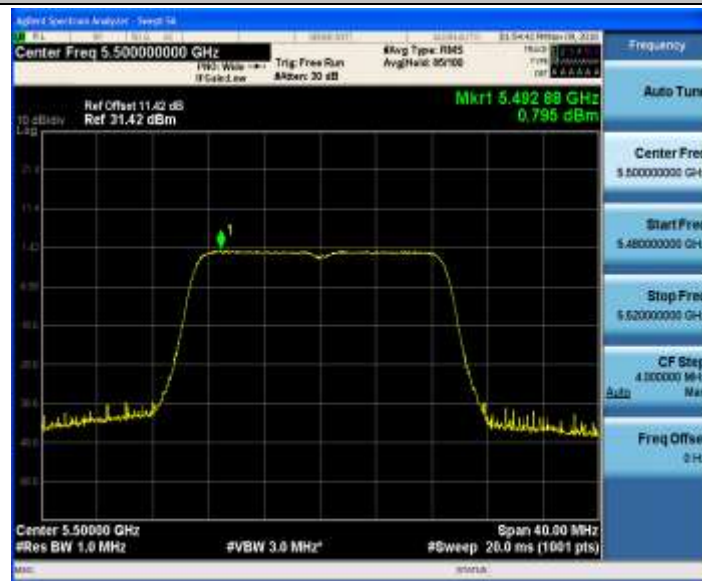
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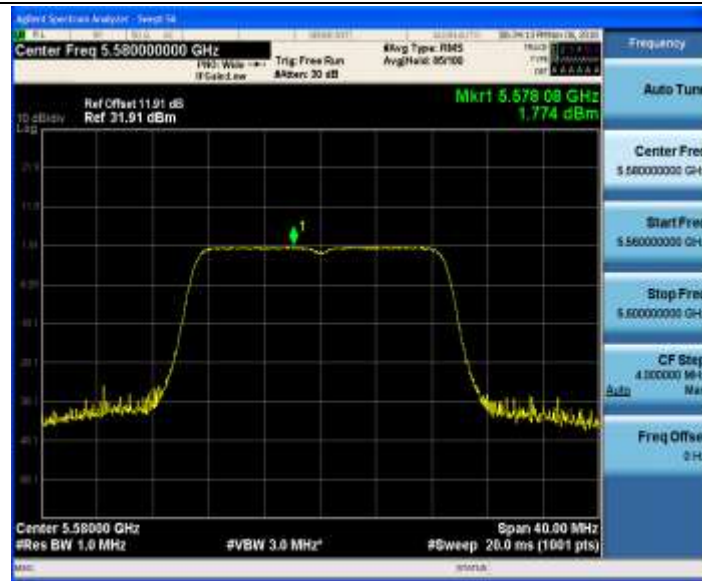
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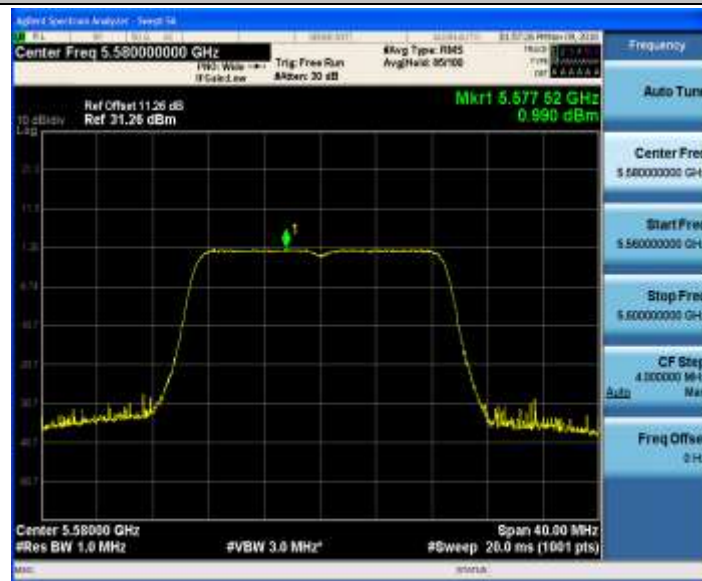
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11N20SISO_Ant1_5580



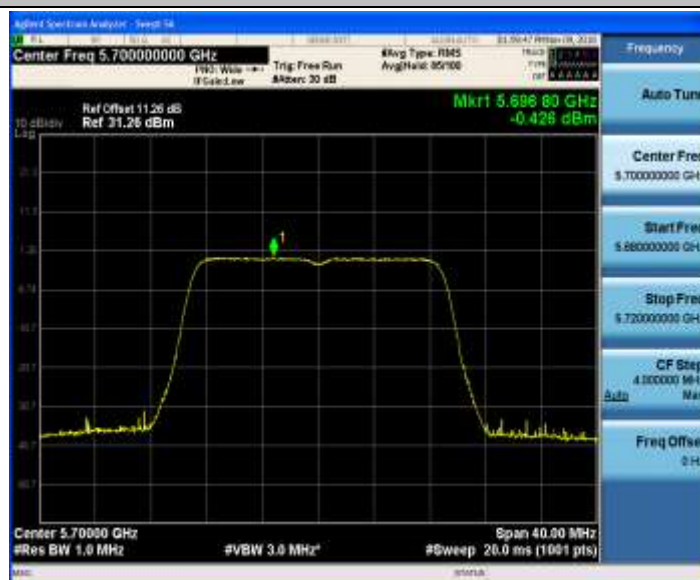
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11N20SISO_Ant1_5700



11N20SISO_Ant2_5700



11N40SISO_Ant1_5190



11N40SISO_Ant2_5190



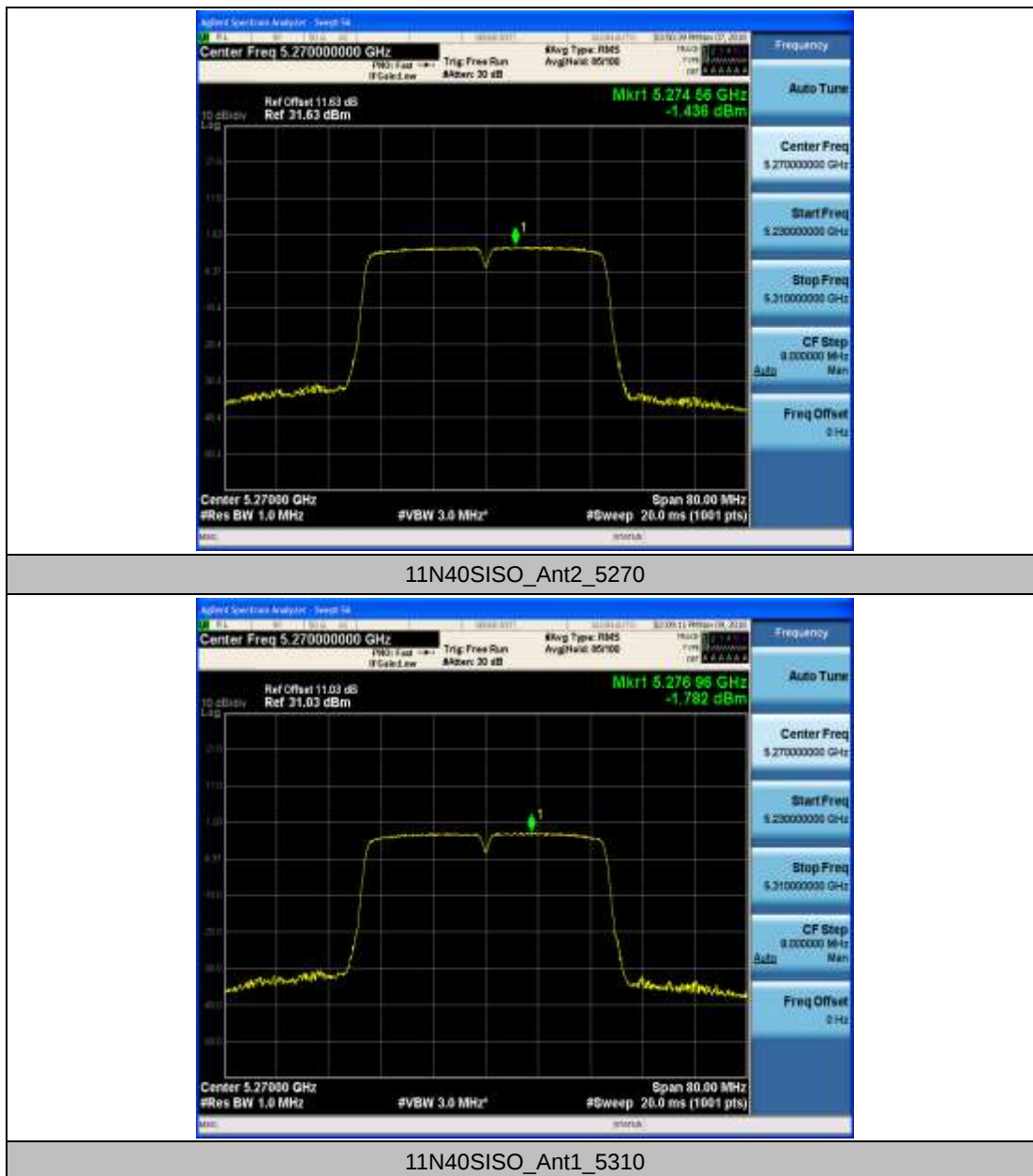
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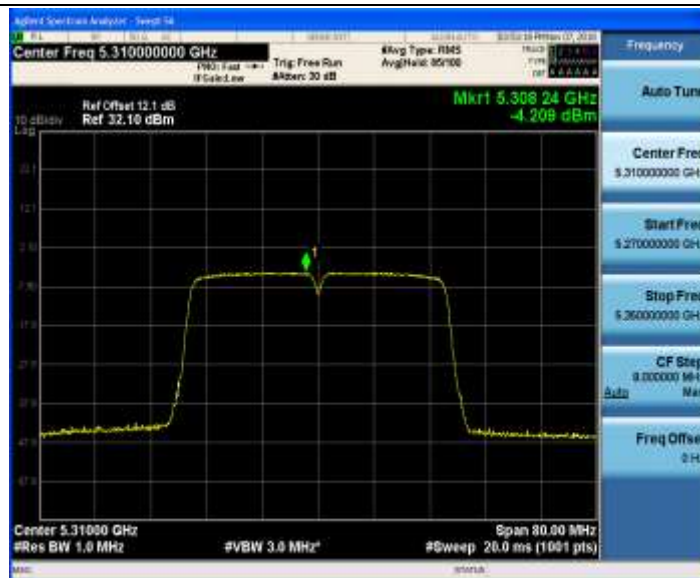


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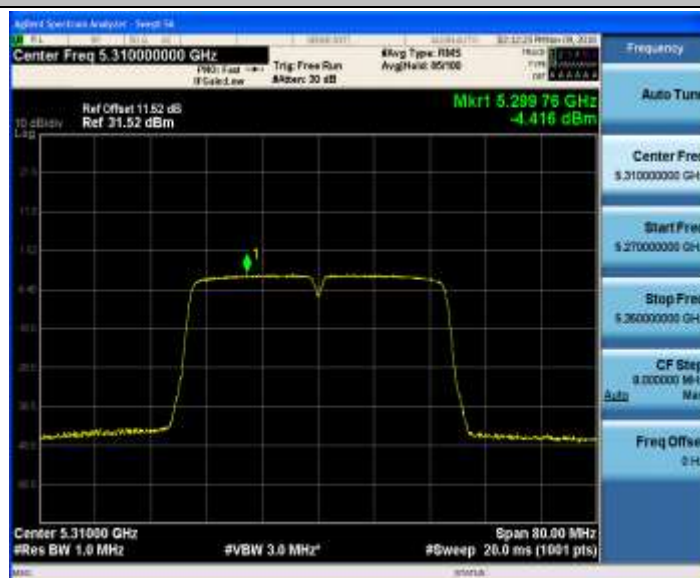


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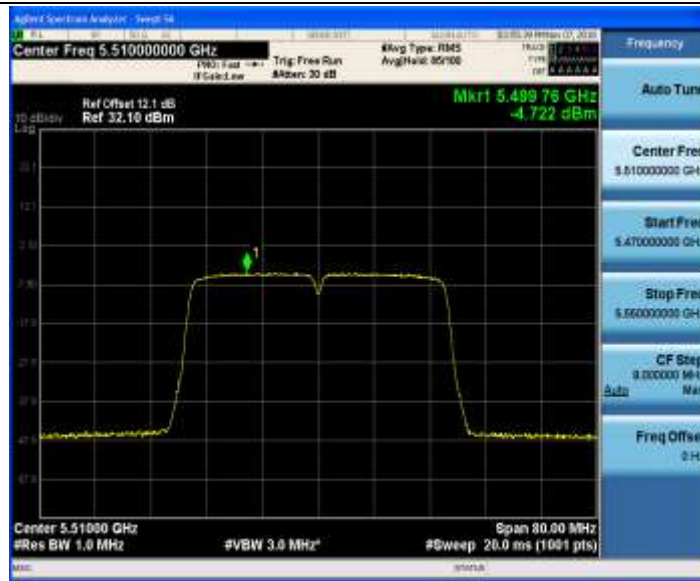




11N40SISO_Ant2_5310



11N40SISO_Ant1_5510



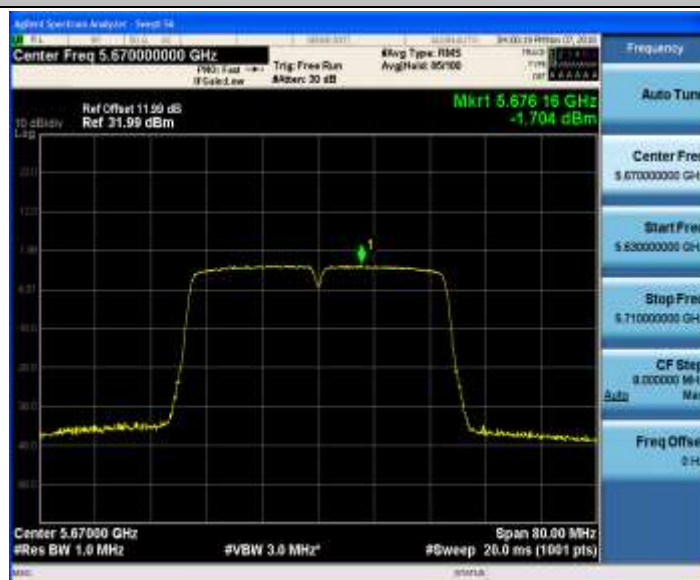
11N40SISO_Ant2_5510



11N40SISO_Ant2_5550



11N40SISO_Ant1_5670



11N40SISO_Ant2_5670



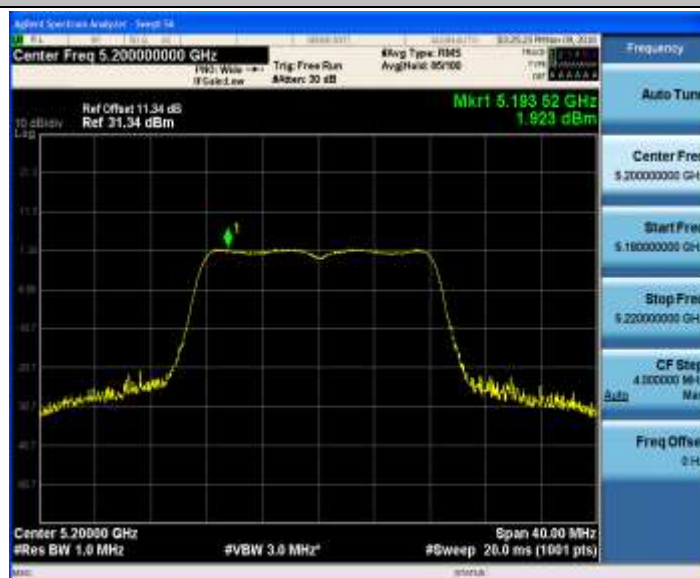
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11A-CDD_Ant2_5180



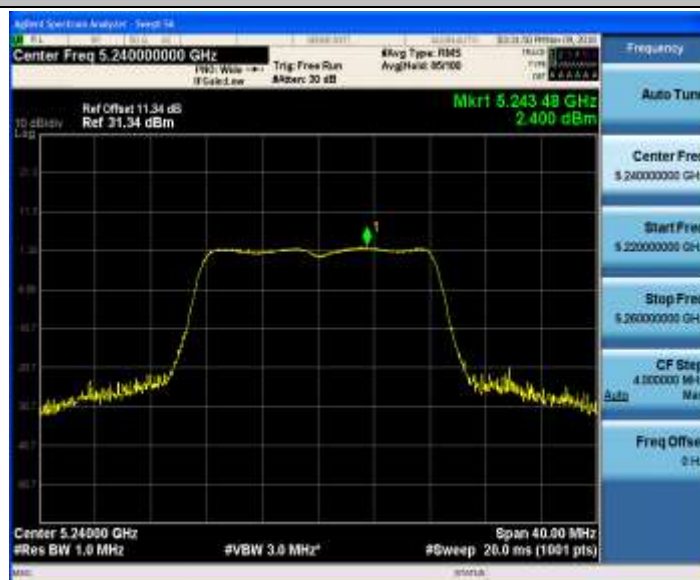
11A-CDD_Ant1_5200



11A-CDD_Ant2_5200



11A-CDD_Ant1_5240



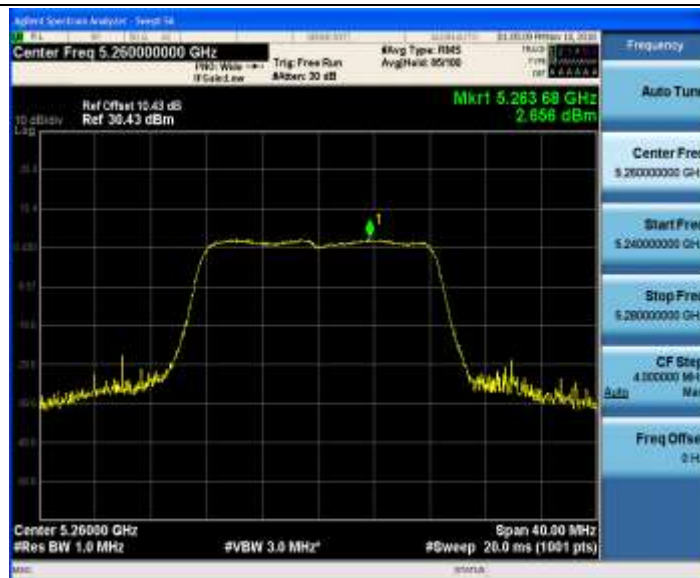
11A-CDD_Ant2_5240



11A-CDD_Ant1_5260



11A-CDD_Ant2_5260



11A-CDD_Ant1_5280



11A-CDD_Ant2_5280



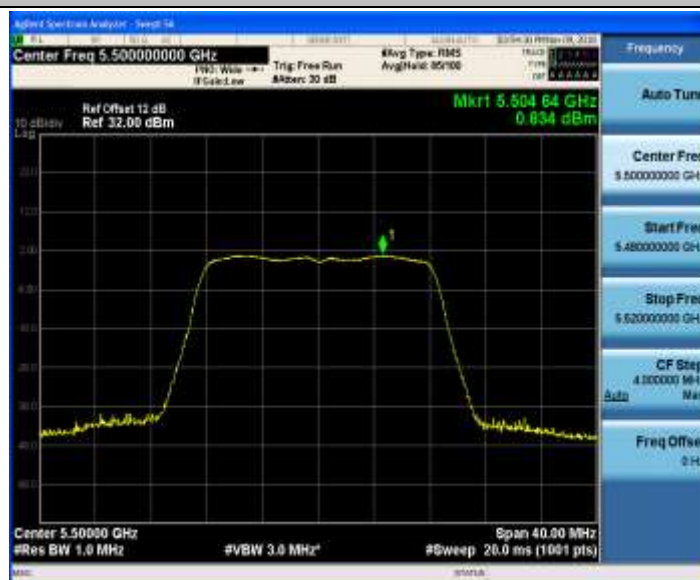
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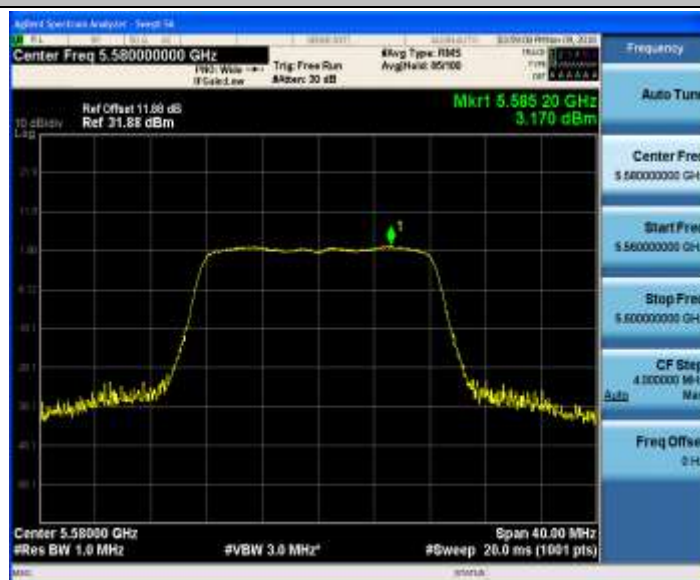
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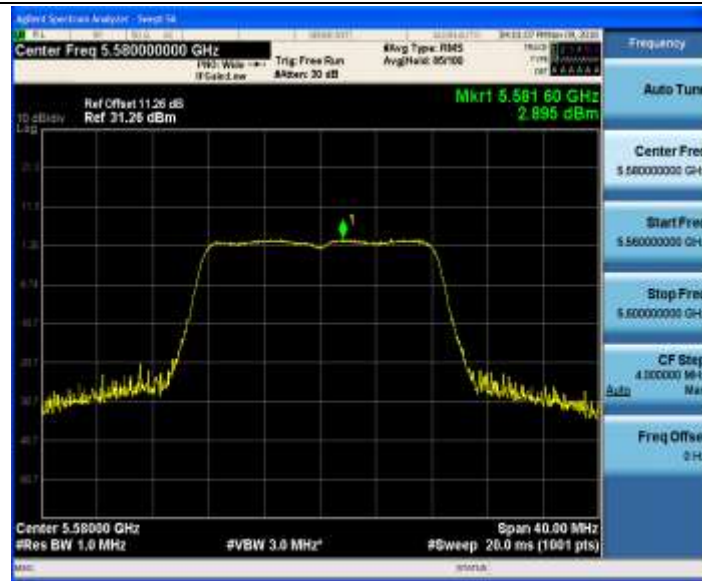
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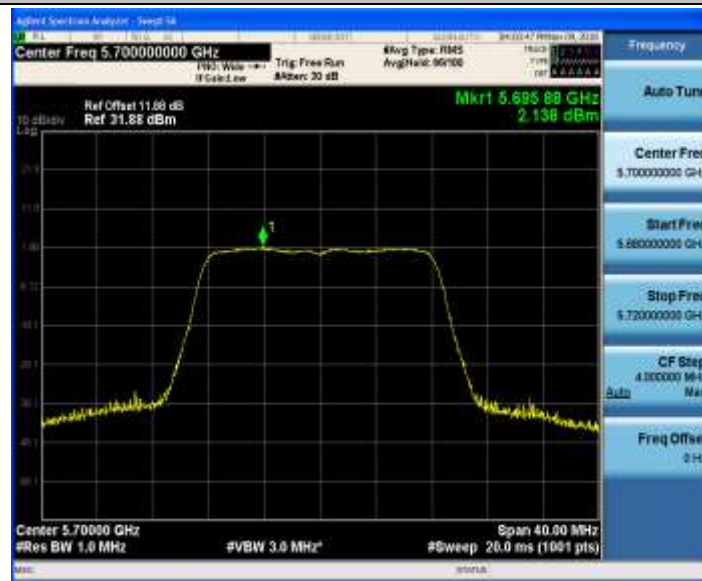
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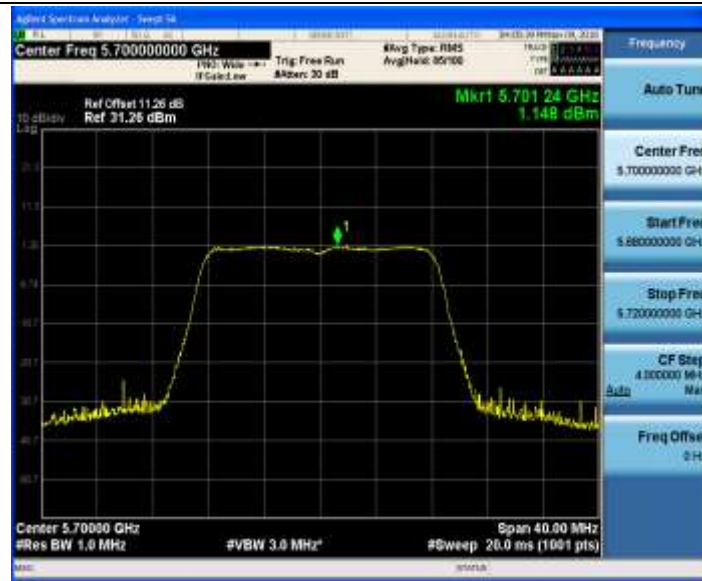
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11A-CDD_Ant1_5700



11A-CDD_Ant2_5700



11N20MIMO_Ant1_5180



11N20MIMO_Ant2_5180



11N20MIMO_Ant1_5200



11N20MIMO_Ant2_5200



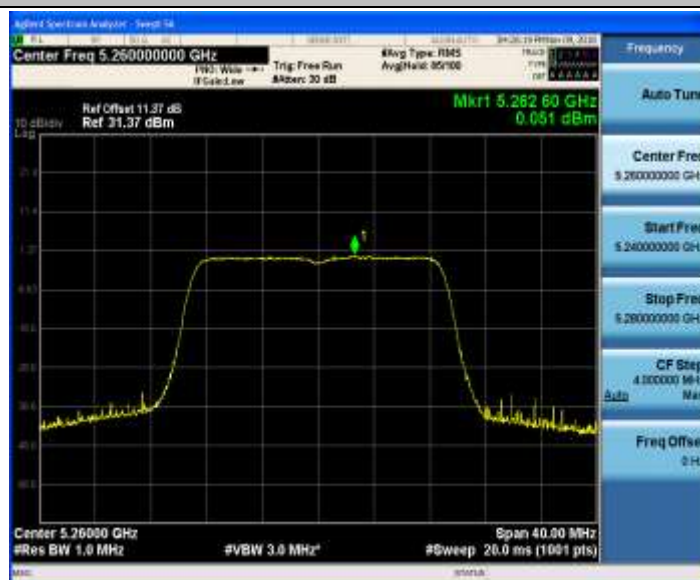
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11N20MIMO_Ant2_5240



11N20MIMO_Ant1_5260



11N20MIMO_Ant2_5260



11N20MIMO_Ant1_5280



11N20MIMO_Ant2_5280



11N20MIMO_Ant1_5320



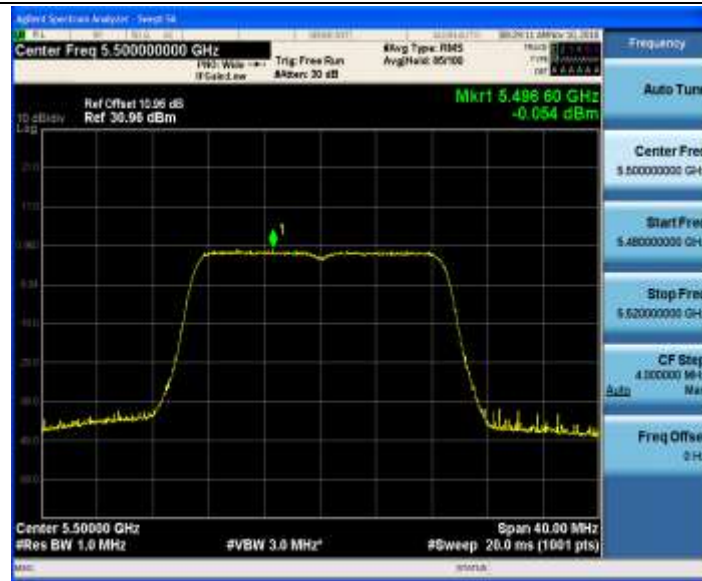
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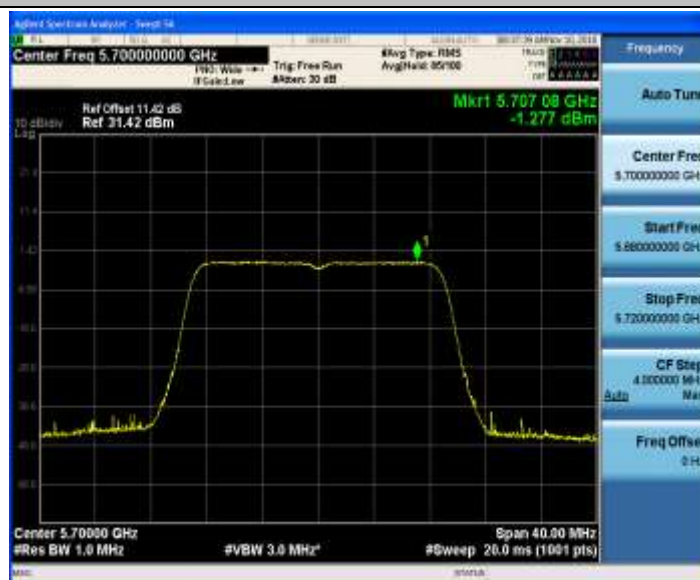
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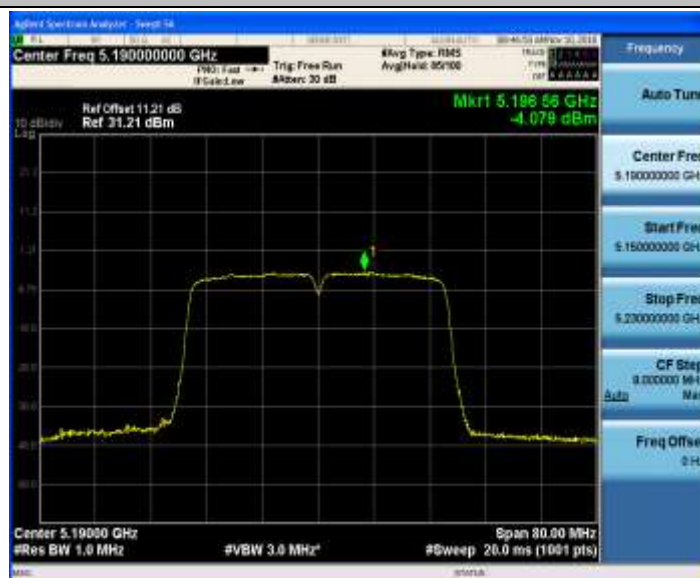
11N20MIMO_Ant1_5700



11N20MIMO_Ant2_5700



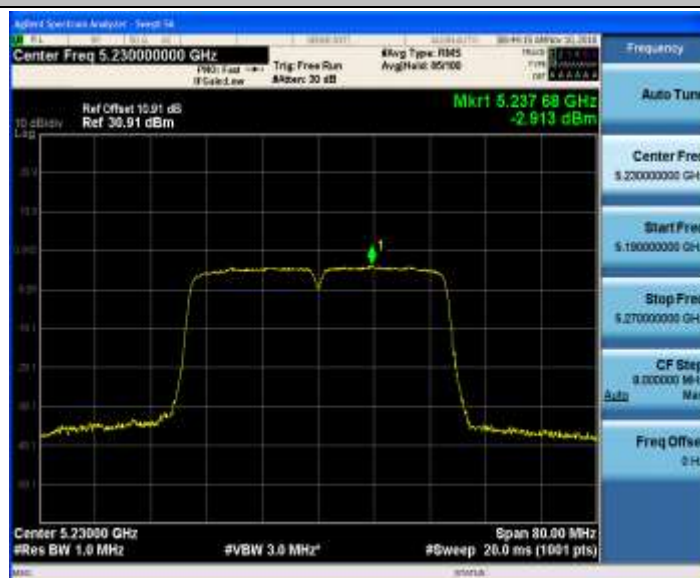
11N40MIMO_Ant1_5190



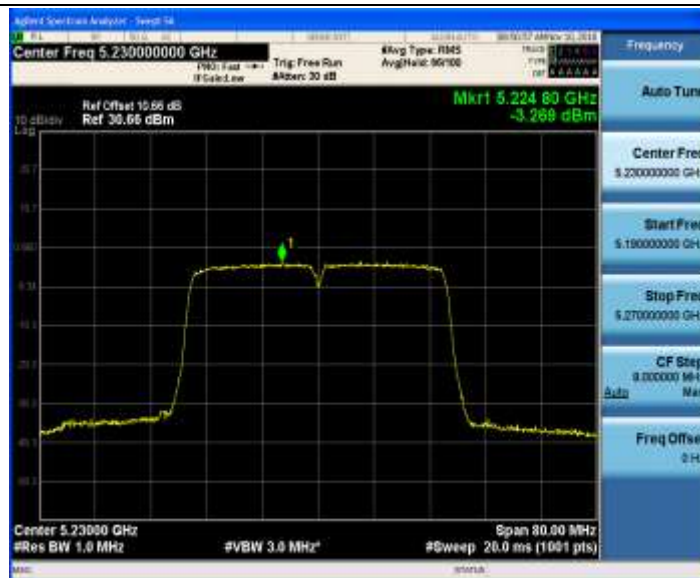
11N40MIMO_Ant2_5190



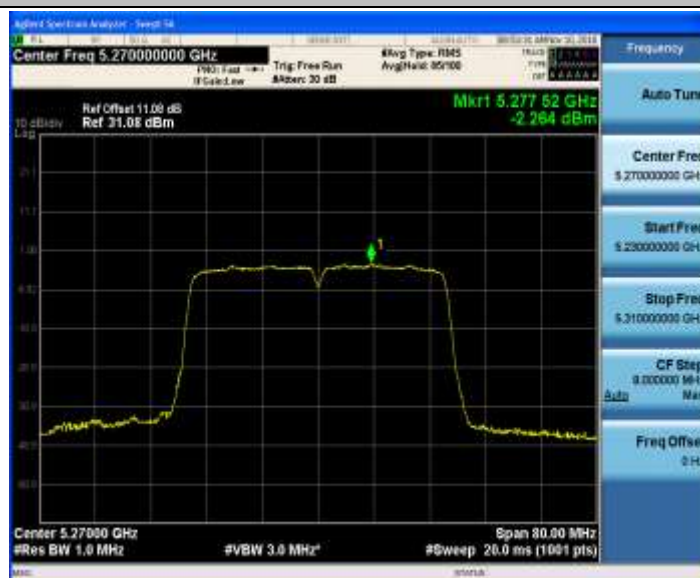
11N40MIMO_Ant1_5230



11N40MIMO_Ant2_5230



11N40MIMO_Ant1_5270



11N40MIMO_Ant2_5270



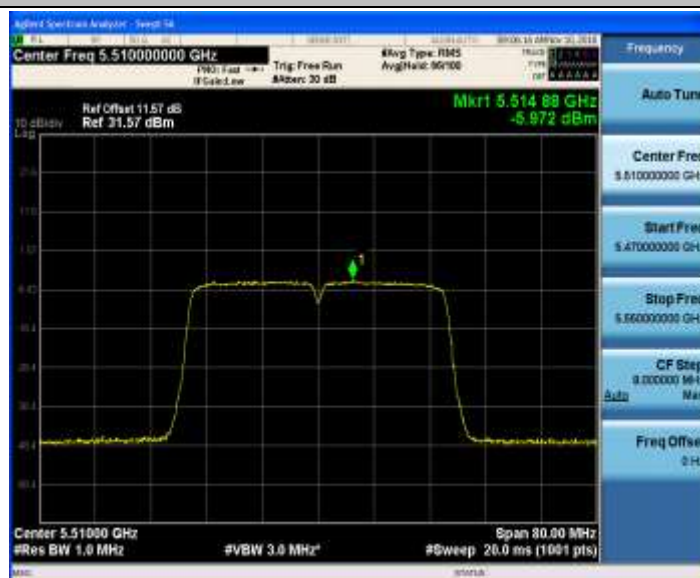
11N40MIMO_Ant1_5310



11N40MIMO_Ant2_5310



11N40MIMO_Ant1_5510



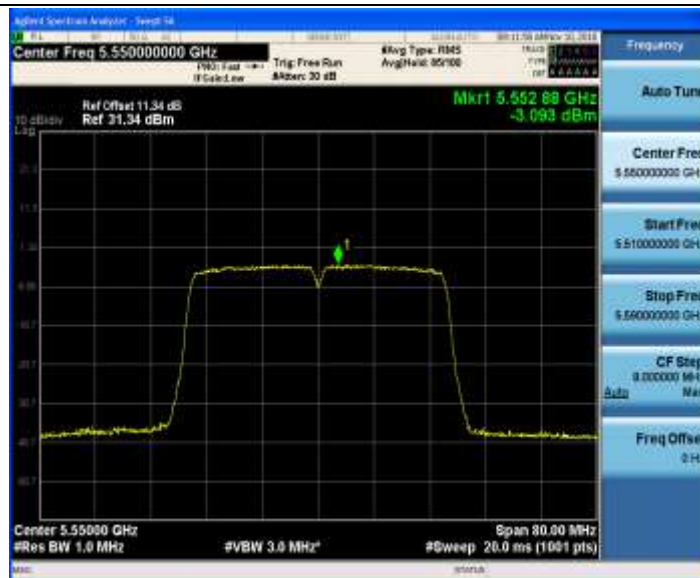
11N40MIMO_Ant2_5510



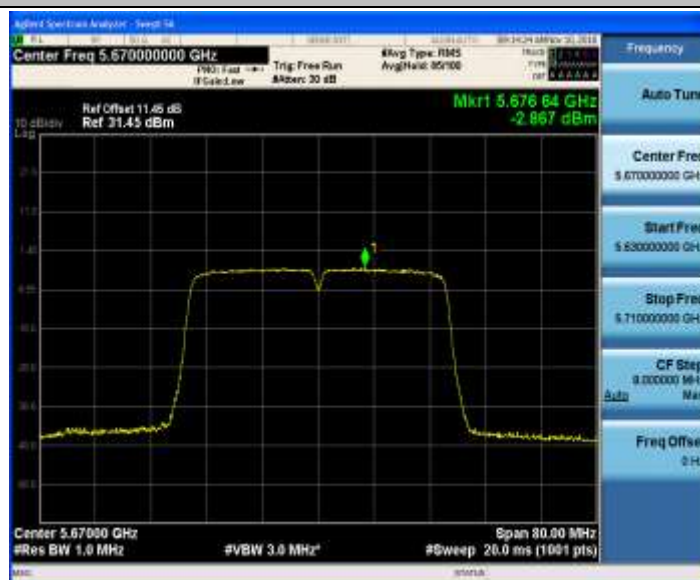
11N40MIMO_Ant1_5550



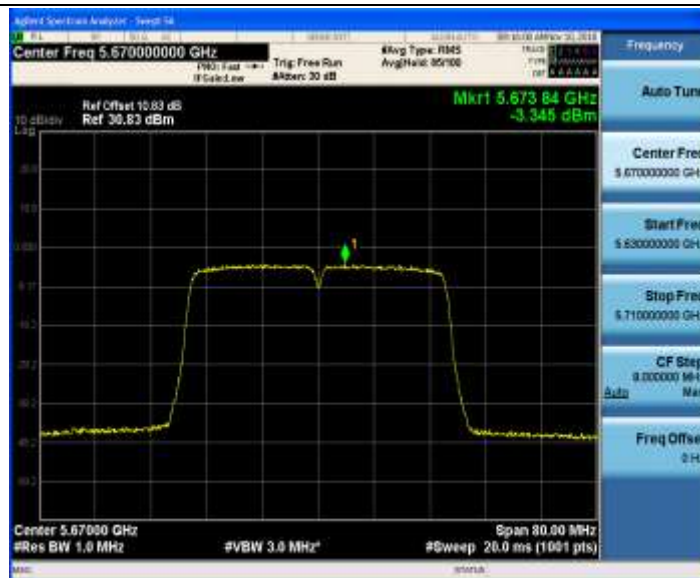
11N40MIMO_Ant2_5550



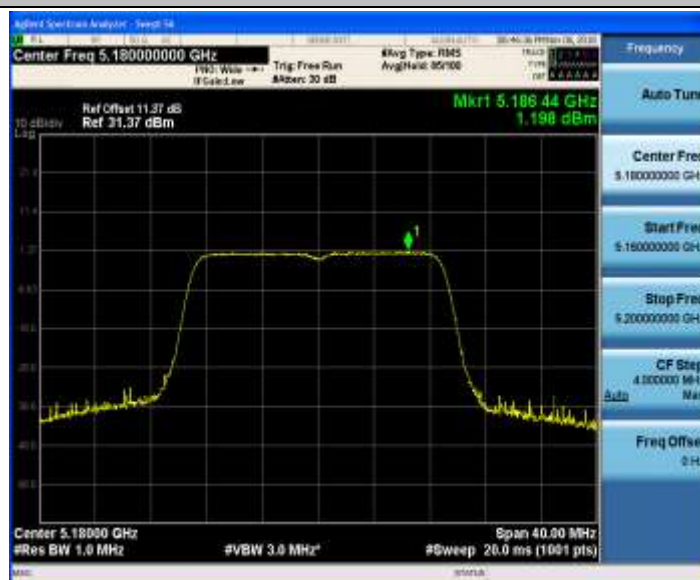
11N40MIMO_Ant1_5670



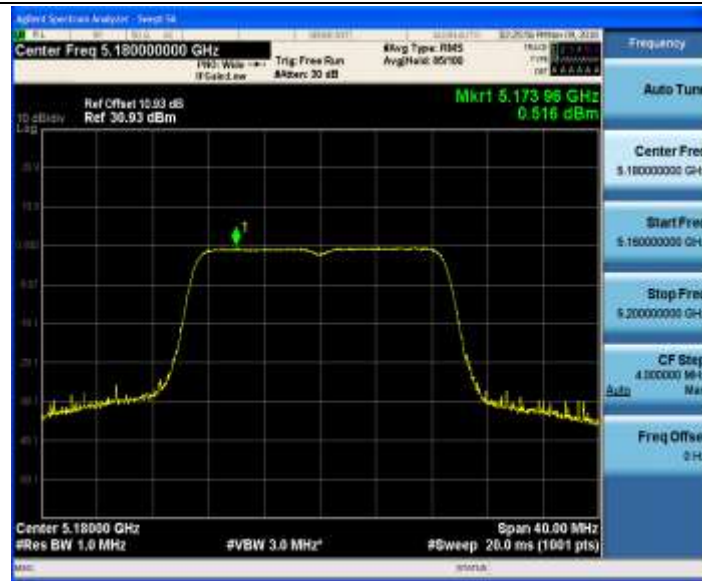
11N40MIMO_Ant2_5670



11AC20SISO_Ant1_5180



11AC20SISO_Ant2_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant2_5200



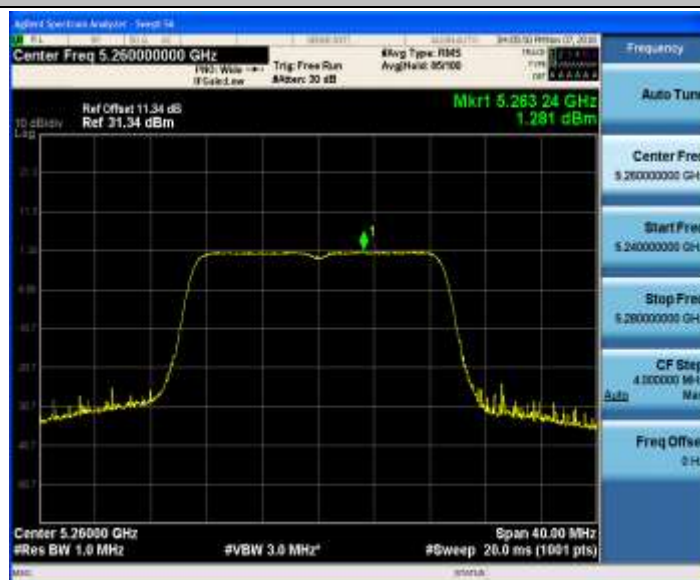
11AC20SISO_Ant1_5240



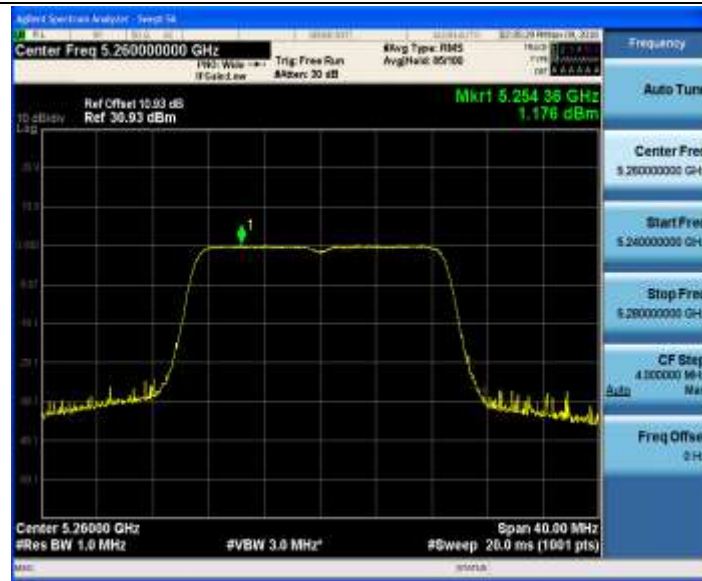
11AC20SISO_Ant2_5240



11AC20SISO_Ant1_5260



11AC20SISO_Ant2_5260



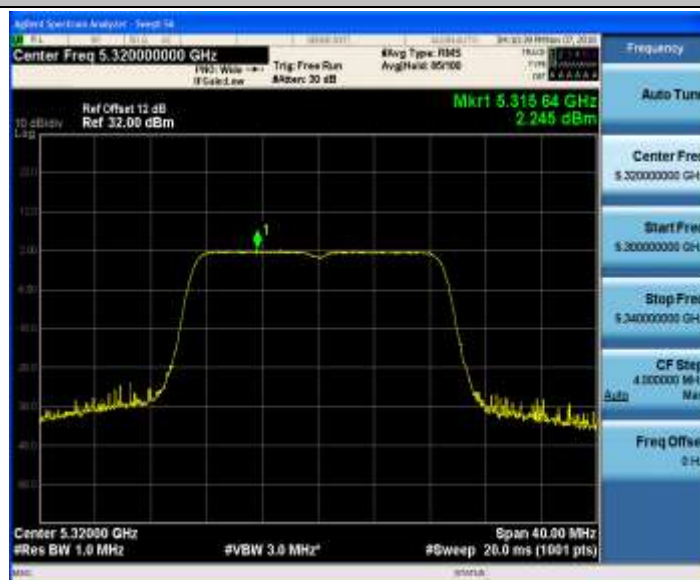
11AC20SISO_Ant1_5280



11AC20SISO_Ant2_5280



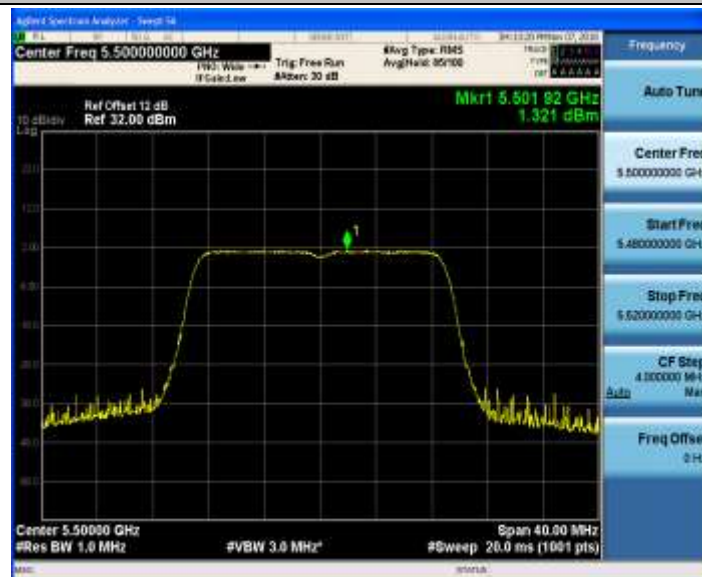
11AC20SISO_Ant1_5320



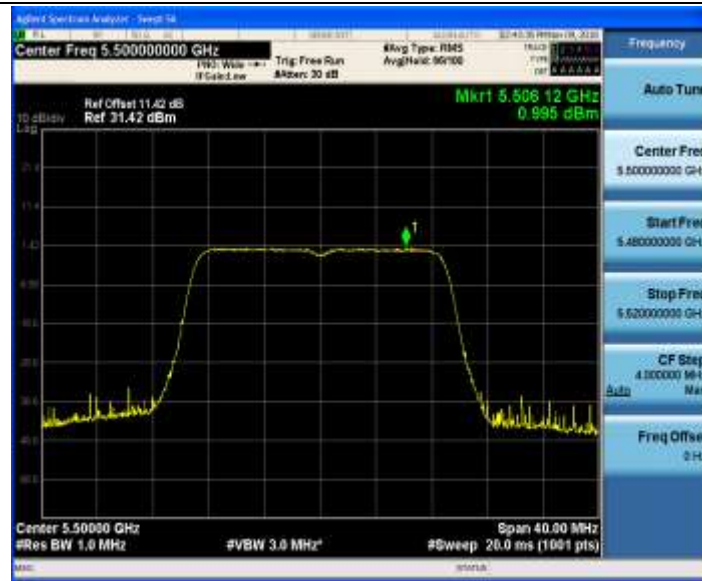
11AC20SISO_Ant2_5320



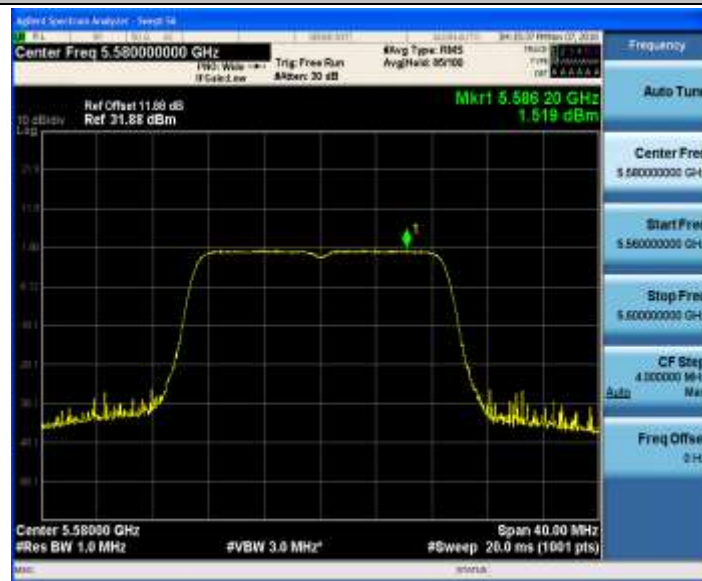
11AC20SISO_Ant1_5500



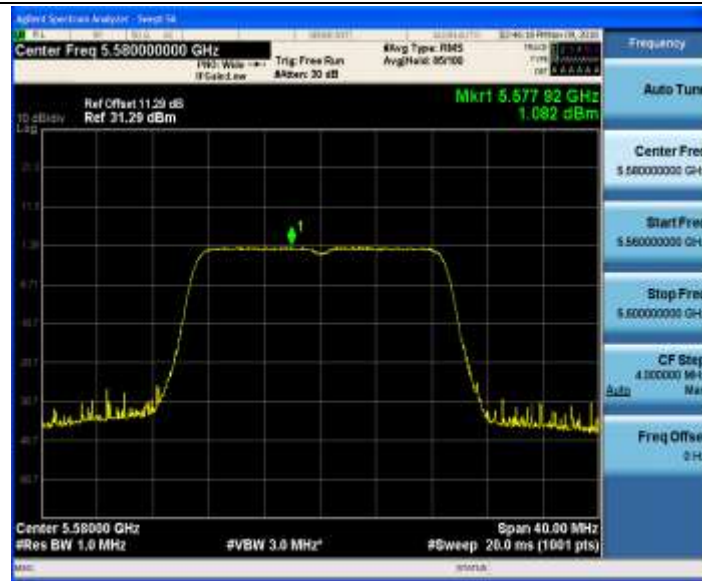
11AC20SISO_Ant2_5500



11AC20SISO_Ant1_5580



11AC20SISO_Ant2_5580



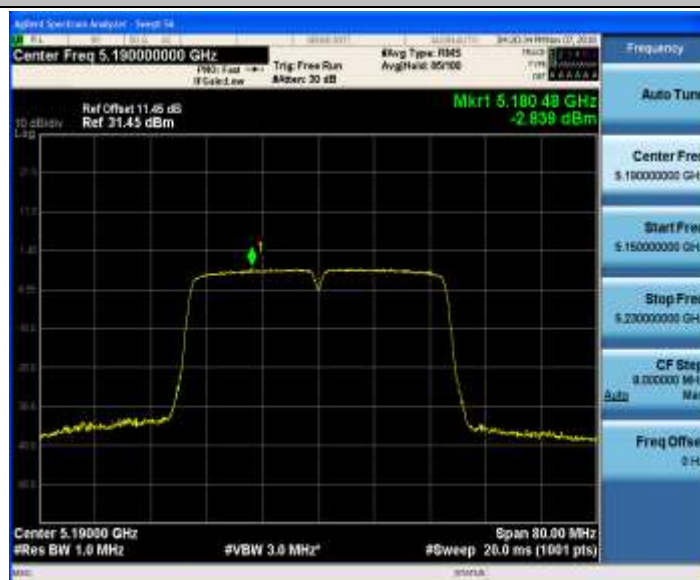
11AC20SISO_Ant1_5700



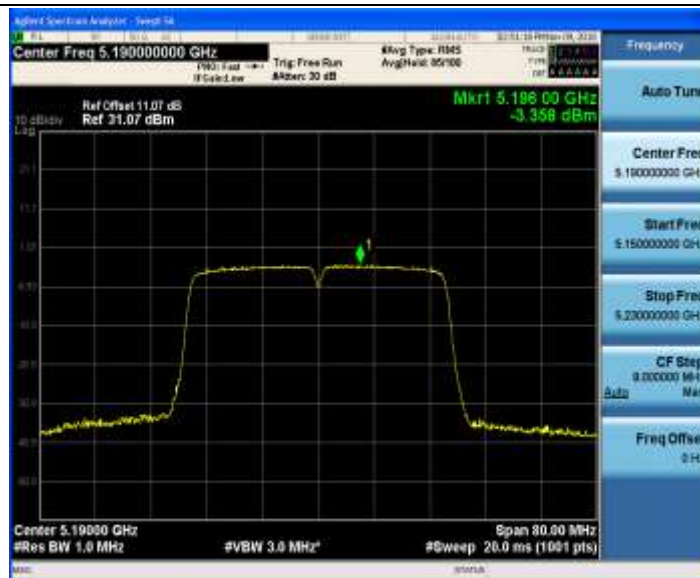
11AC20SISO_Ant2_5700



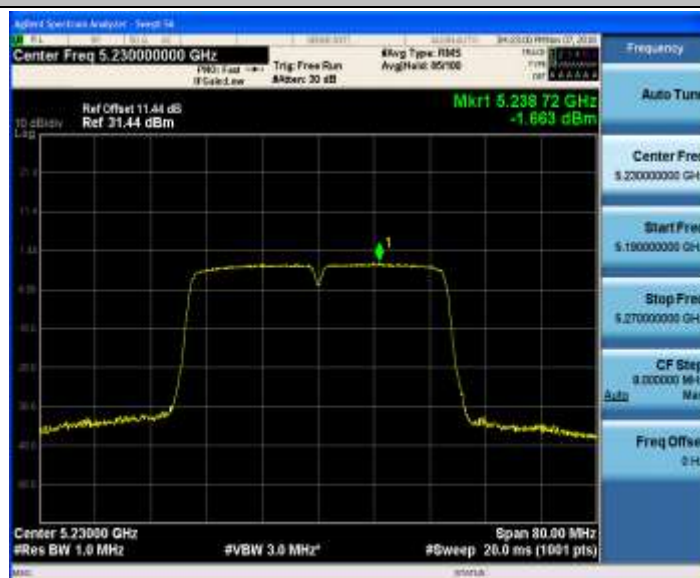
11AC40SISO_Ant1_5190



11AC40SISO_Ant2_5190



11AC40SISO_Ant1_5230



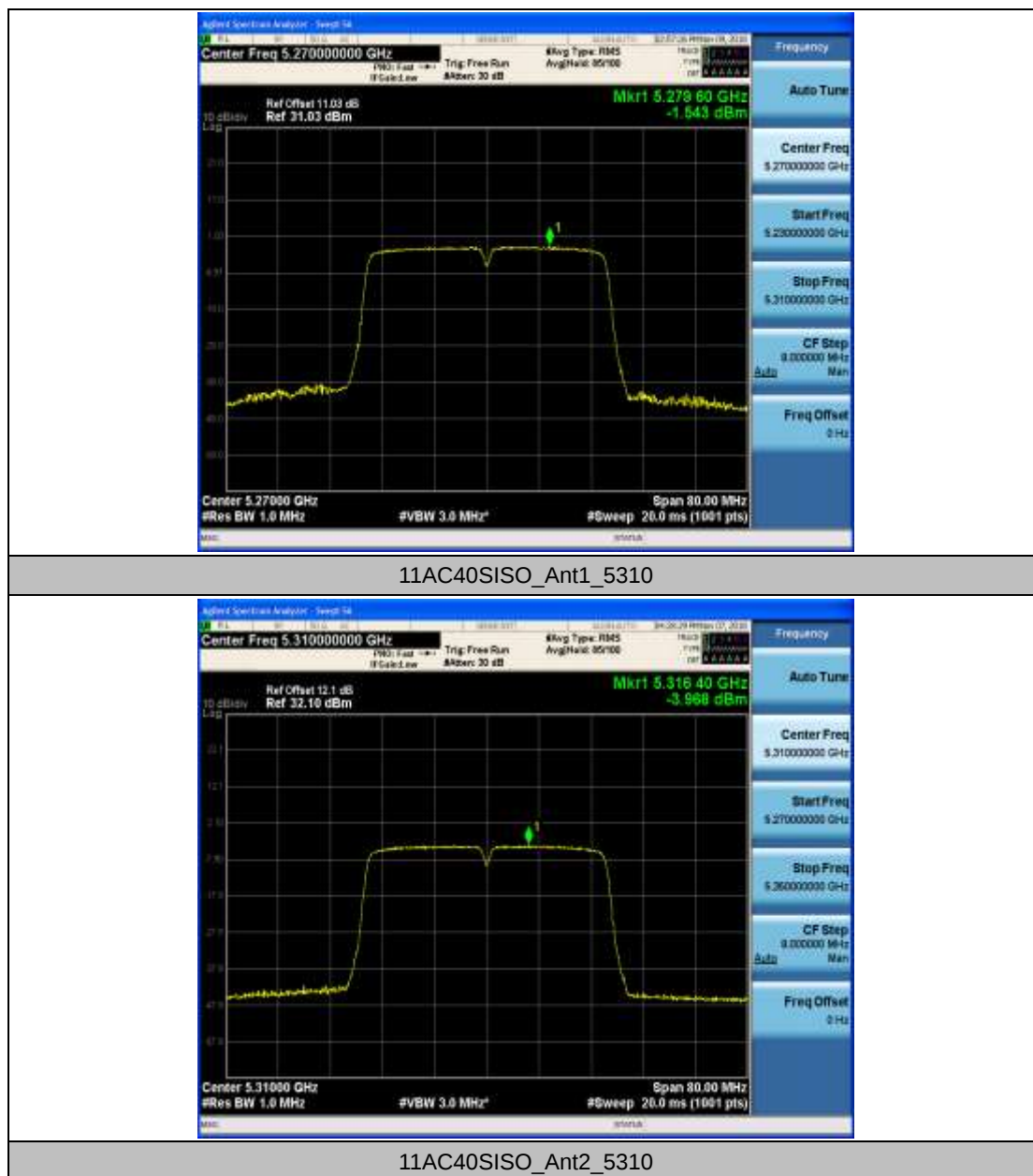
11AC40SISO_Ant2_5230



11AC40SISO_Ant1_5270



11AC40SISO_Ant2_5270





11AC40SISO_Ant1_5510



11AC40SISO_Ant2_5510



11AC40SISO_Ant1_5550



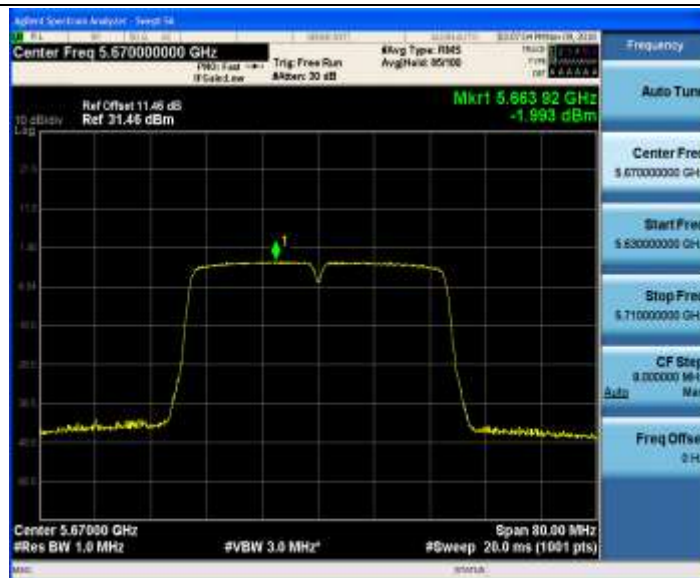
11AC40SISO_Ant2_5550



11AC40SISO_Ant1_5670



11AC40SISO_Ant2_5670



11AC80SISO_Ant1_5210



11AC80SISO_Ant2_5210



11AC80SISO_Ant1_5290



11AC80SISO_Ant2_5290



11AC80SISO_Ant1_5530



11AC80SISO_Ant2_5530



11AC80SISO_Ant1_5610



11AC80SISO_Ant2_5610



11AC20MIMO_Ant1_5180



11AC20MIMO_Ant2_5180



11AC20MIMO_Ant1_5200



11AC20MIMO_Ant2_5200



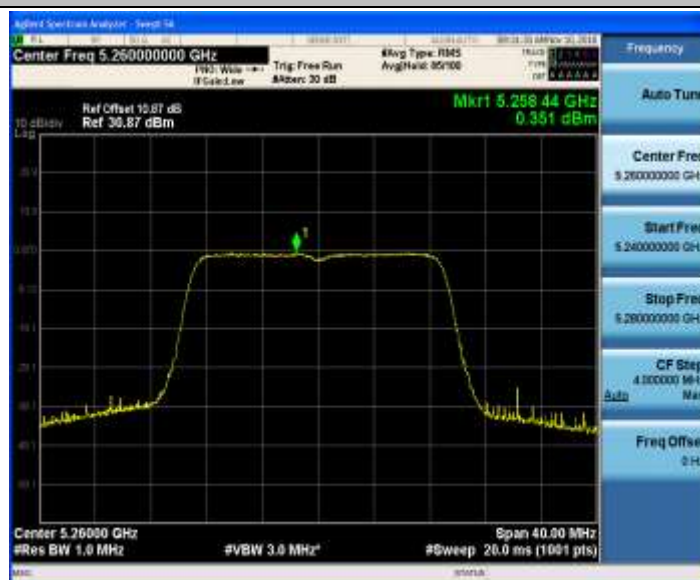
11AC20MIMO_Ant1_5240



11AC20MIMO_Ant2_5240



11AC20MIMO_Ant1_5260



11AC20MIMO_Ant2_5260



11AC20MIMO_Ant1_5280



11AC20MIMO_Ant2_5280



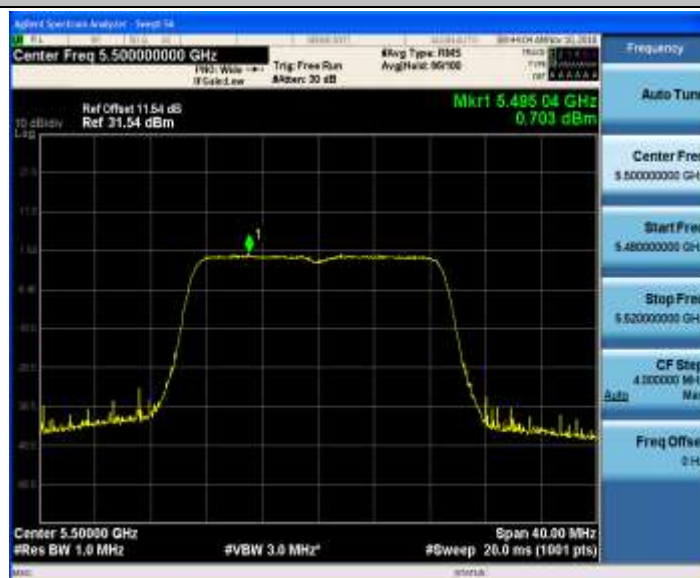
11AC20MIMO_Ant1_5320



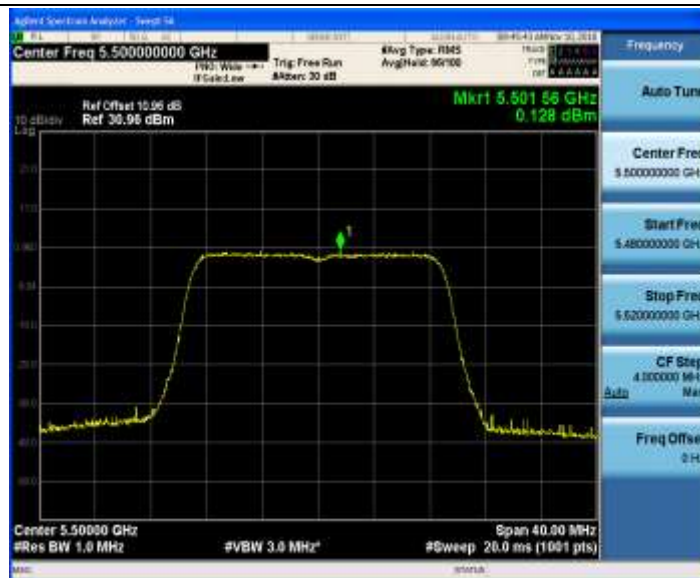
11AC20MIMO_Ant2_5320



11AC20MIMO_Ant1_5500



11AC20MIMO_Ant2_5500



11AC20MIMO_Ant1_5580



11AC20MIMO_Ant2_5580



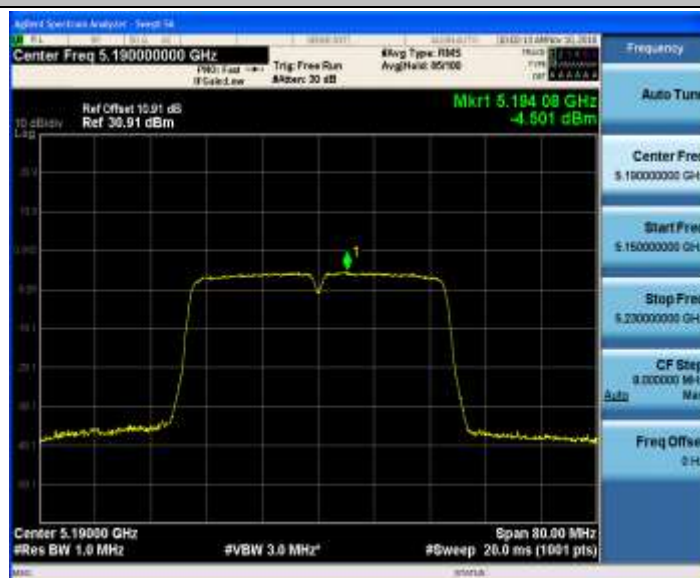
11AC20MIMO_Ant1_5700



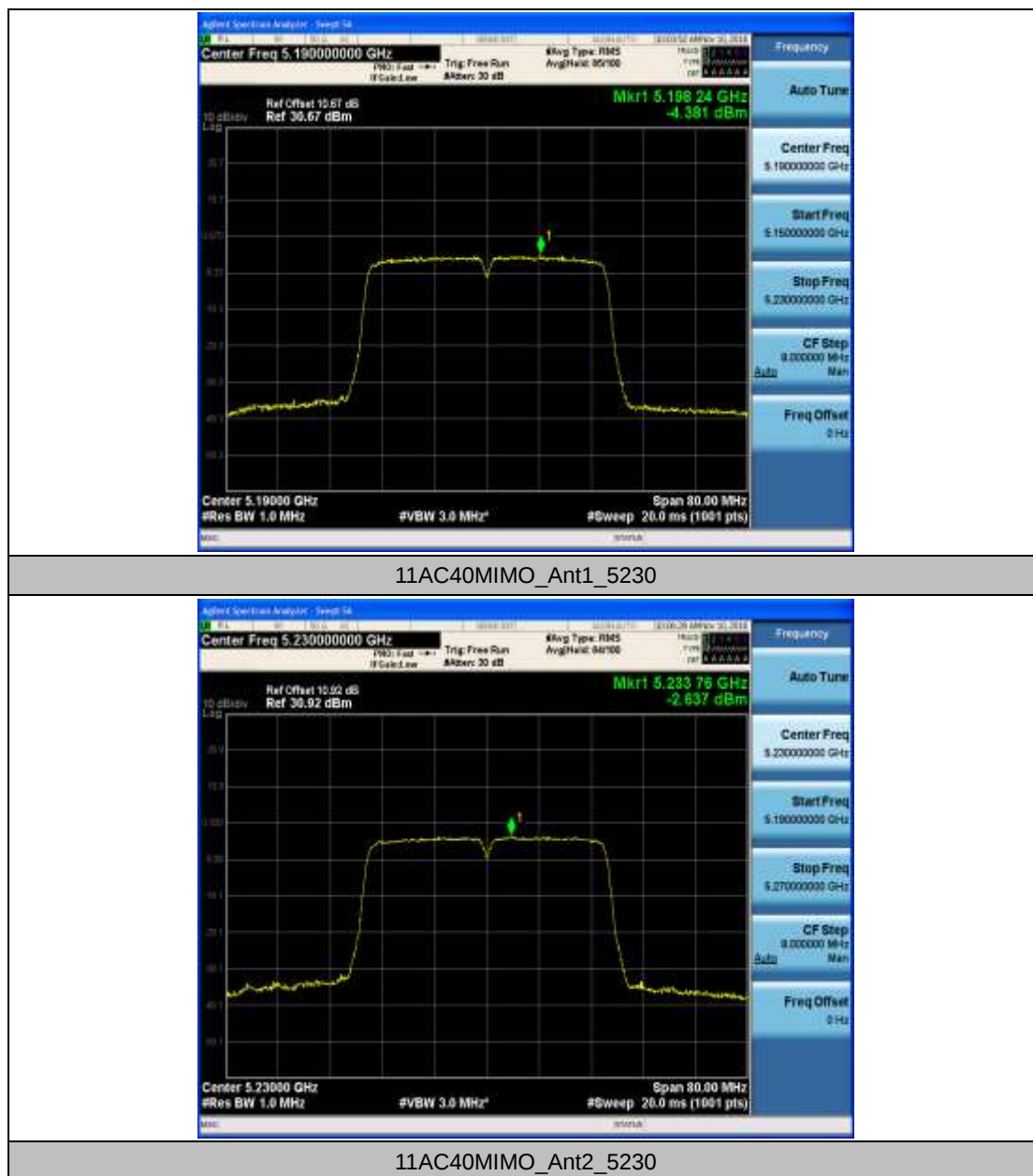
11AC20MIMO_Ant2_5700

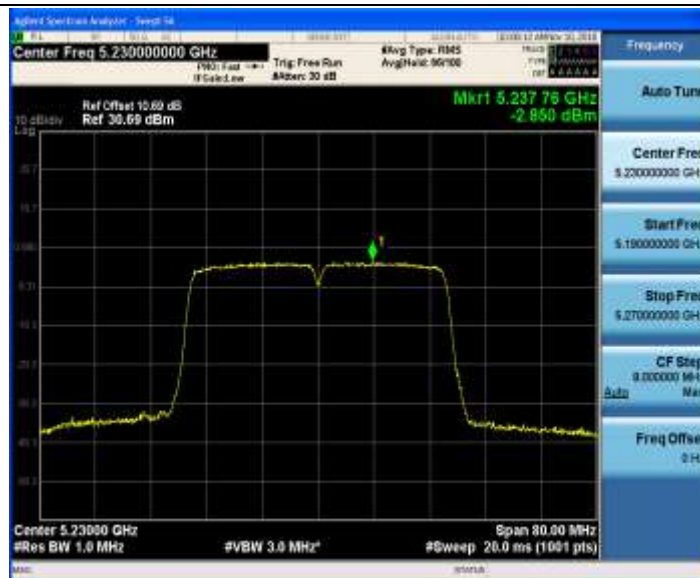


11AC40MIMO_Ant1_5190



11AC40MIMO_Ant2_5190





11AC40MIMO_Ant1_5270



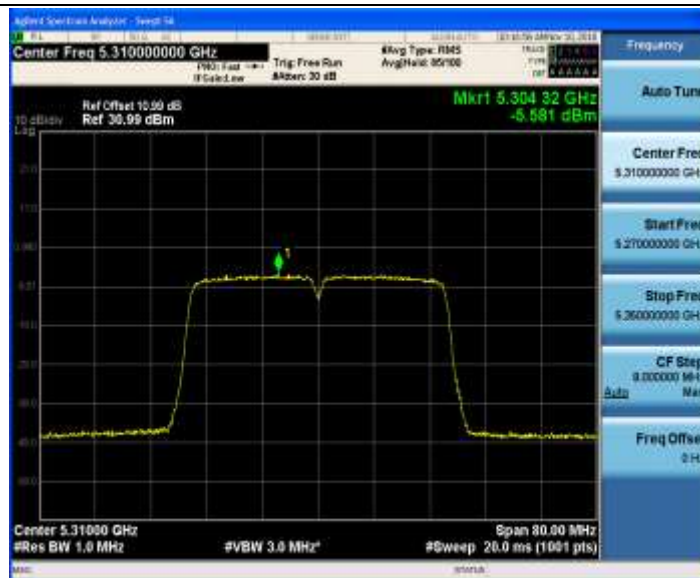
11AC40MIMO_Ant2_5270



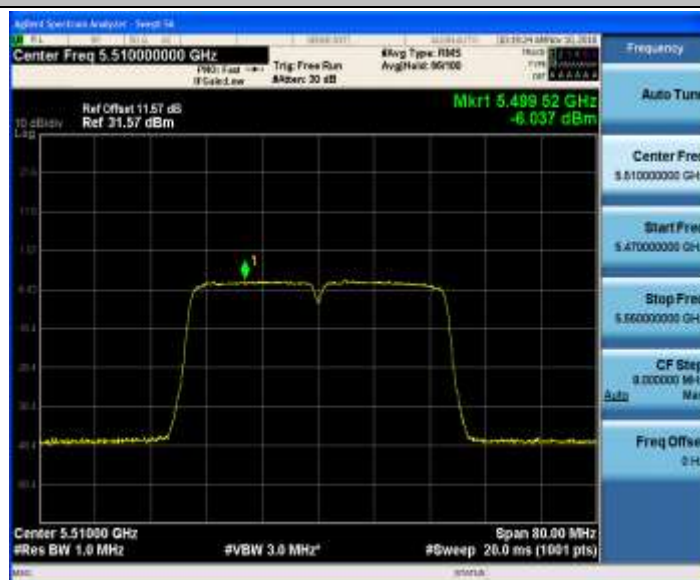
11AC40MIMO_Ant1_5310



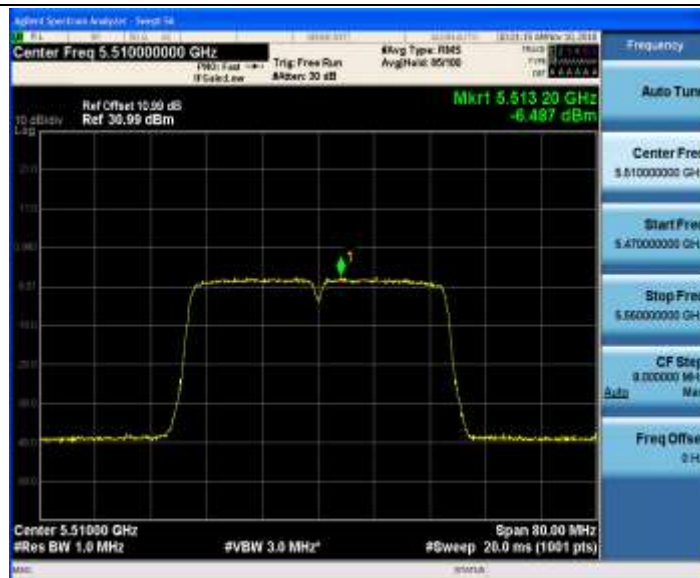
11AC40MIMO_Ant2_5310



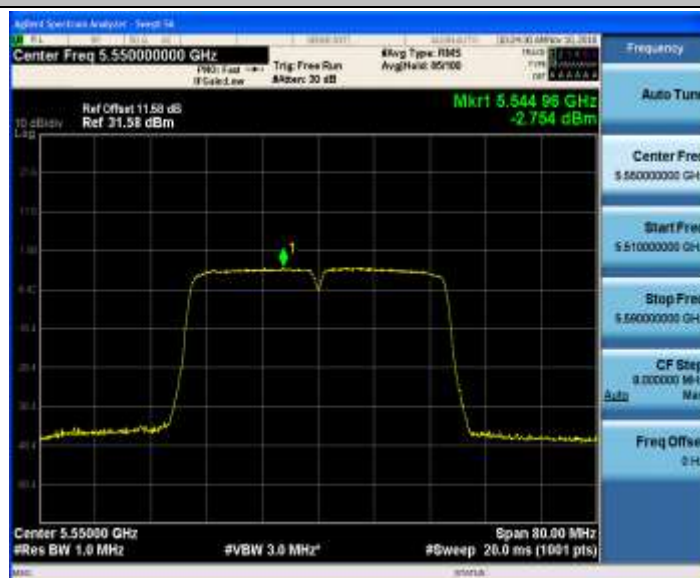
11AC40MIMO_Ant1_5510



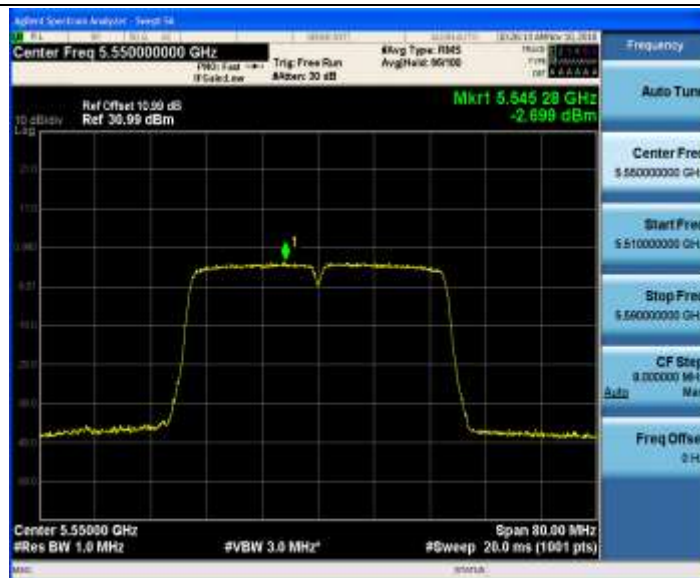
11AC40MIMO_Ant2_5510



11AC40MIMO_Ant1_5550



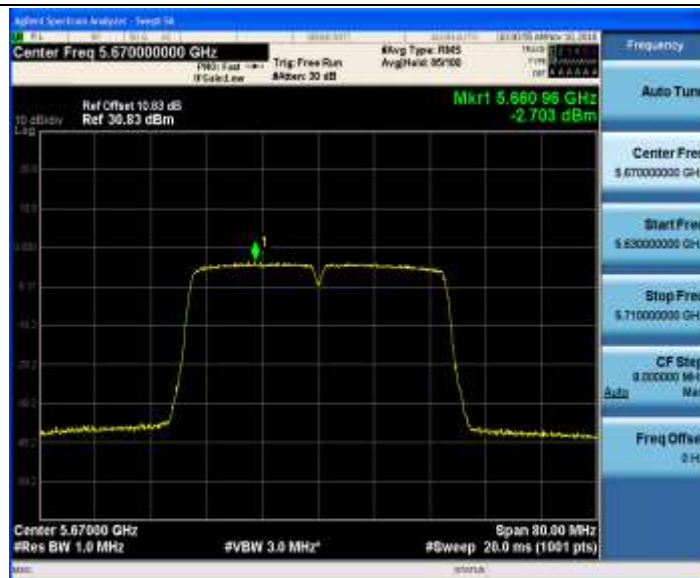
11AC40MIMO_Ant2_5550



11AC40MIMO_Ant1_5670



11AC40MIMO_Ant2_5670



11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210



11AC80MIMO_Ant1_5290



11AC80MIMO_Ant2_5290



11AC80MIMO_Ant1_5530



11AC80MIMO_Ant2_5530



11AC80MIMO_Ant1_5610



11AC80MIMO_Ant2_5610





Appendix F: Frequency Stability

Test Result

Voltage								
TestMod e	Antenn a	Channe l	Voltage [Vdc]	Temper ature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	0	0	20	PASS
			LV	NT	45000	8.687259	20	PASS
			HV	NT	15000	2.895753	20	PASS
	Ant2	5180	NV	NT	15000	2.895753	20	PASS
			LV	NT	0	0	20	PASS
			HV	NT	15000	2.895753	20	PASS
	Ant1	5700	NV	NT	0	0	20	PASS
			LV	NT	0	0	20	PASS
			HV	NT	15000	2.631579	20	PASS
	Ant2	5700	NV	NT	0	0	20	PASS
			LV	NT	-15000	-2.631579	20	PASS
			HV	NT	30000	5.263158	20	PASS

Temperature								
TestMod e	Antenn a	Channe l	Voltage [Vdc]	Temper ature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	-30	15000	2.895753	20	PASS
			NV	-20	30000	5.791506	20	PASS
			NV	-10	15000	2.895753	20	PASS
			NV	0	-15000	-2.895753	20	PASS
			NV	10	-30000	-5.791506	20	PASS
			NV	20	-15000	-2.895753	20	PASS
			NV	30	30000	5.791506	20	PASS
			NV	40	60000	11.583012	20	PASS
			NV	50	0	0	20	PASS
	Ant2	5180	NV	-30	30000	5.791506	20	PASS
			NV	-20	45000	8.687259	20	PASS
			NV	-10	30000	5.791506	20	PASS
			NV	0	15000	2.895753	20	PASS
			NV	10	15000	2.895753	20	PASS



			NV	20	0	0	20	PASS
			NV	30	30000	5.791506	20	PASS
			NV	40	45000	8.687259	20	PASS
			NV	50	0	0	20	PASS
	Ant1	5700	NV	-30	0	0	20	PASS
			NV	-20	15000	2.631579	20	PASS
			NV	-10	0	0	20	PASS
			NV	0	-15000	-2.631579	20	PASS
			NV	10	-45000	-7.894737	20	PASS
			NV	20	30000	5.263158	20	PASS
			NV	30	30000	5.263158	20	PASS
			NV	40	30000	5.263158	20	PASS
			NV	50	15000	2.631579	20	PASS
	Ant2	5700	NV	-30	30000	5.263158	20	PASS
			NV	-20	0	0	20	PASS
			NV	-10	0	0	20	PASS
			NV	0	30000	5.263158	20	PASS
			NV	10	15000	2.631579	20	PASS
			NV	20	0	0	20	PASS
			NV	30	30000	5.263158	20	PASS
			NV	40	15000	2.631579	20	PASS
			NV	50	15000	2.631579	20	PASS

END