

Appendix Test Data

Report No.:	18220WC10218702	Test Date:	2021.10.22
Test Engineer:	<i>Tony 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	25.560	5167.48 0	5193.040	---	PASS
		5200	23.600	5188.00 0	5211.600	---	PASS
		5240	22.720	5229.12 0	5251.840	---	PASS
		5745	22.200	5734.08 0	5756.280	---	PASS
		5785	22.400	5773.92 0	5796.320	---	PASS
		5825	22.640	5814.24 0	5836.880	---	PASS
11N20SI SO	Ant1	5180	26.520	5167.24 0	5193.760	---	PASS
		5200	22.800	5188.56 0	5211.360	---	PASS
		5240	22.440	5228.88 0	5251.320	---	PASS
		5745	21.800	5734.16 0	5755.960	---	PASS
		5785	24.160	5773.40 0	5797.560	---	PASS
		5825	24.600	5814.28 0	5838.880	---	PASS
11N40SI SO	Ant1	5190	49.520	5167.84 0	5217.360	---	PASS
		5230	41.440	5209.12	5250.560	---	PASS

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				0			
		5755	41.360	5734.04 0	5775.400	---	PASS
		5795	42.160	5774.52 0	5816.680	---	PASS
11AC20S ISO	Ant1	5180	22.560	5168.88 0	5191.440	---	PASS
		5200	24.080	5187.60 0	5211.680	---	PASS
		5240	25.440	5227.16 0	5252.600	---	PASS
		5745	23.040	5734.08 0	5757.120	---	PASS
		5785	23.680	5773.24 0	5796.920	---	PASS
		5825	24.600	5813.92 0	5838.520	---	PASS
11AC40S ISO	Ant1	5190	40.880	5169.84 0	5210.720	---	PASS
		5230	41.840	5209.12 0	5250.960	---	PASS
		5755	41.440	5734.04 0	5775.480	---	PASS
		5795	44.880	5773.96 0	5818.840	---	PASS
11AC80S ISO	Ant1	5210	80.640	5169.52 0	5250.160	---	PASS
		5775	82.400	5734.68 0	5817.080	---	PASS

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Test Graphs

11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240



11A_Ant1_5745



11A_Ant1_5785



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11A_Ant1_5825



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



11N20SISO_Ant1_5745



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11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11N40SISO_Ant1_5755



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11N40SISO_Ant1_5795



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC20SISO_Ant1_5745



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11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5190



11AC40SISO Ant1 5230



11AC40SISO Ant1 5755



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11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5775



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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	17.296	5171.35 8	5188.654	---	PASS
		5200	17.259	5191.32 3	5208.582	---	PASS
		5240	17.271	5231.37 1	5248.642	---	PASS
		5745	17.102	5736.51 3	5753.615	---	PASS
		5785	17.248	5776.34 1	5793.589	---	PASS
		5825	17.154	5816.46 8	5833.622	---	PASS
11N20SI SO	Ant1	5180	18.206	5170.93 4	5189.140	---	PASS
		5200	18.238	5190.92 0	5209.158	---	PASS
		5240	18.225	5230.91 8	5249.143	---	PASS
		5745	18.031	5735.98 5	5754.016	---	PASS
		5785	18.144	5775.93 5	5794.079	---	PASS
		5825	18.237	5815.93 2	5834.169	---	PASS
11N40SI SO	Ant1	5190	36.311	5171.86 8	5208.179	---	PASS
		5230	36.328	5211.808	5248.136	---	PASS
		5755	36.214	5736.86 5	5773.079	---	PASS
		5795	36.359	5776.85 3	5813.212	---	PASS
11AC20S ISO	Ant1	5180	18.164	5170.98 6	5189.150	---	PASS
		5200	18.300	5190.83 7	5209.137	---	PASS
		5240	18.215	5230.85 8	5249.073	---	PASS

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		5745	18.182	5735.91 3	5754.095	---	PASS
		5785	18.139	5775.89 8	5794.037	---	PASS
		5825	18.249	5815.89 0	5834.139	---	PASS
11AC40S ISO	Ant1	5190	36.386	5171.85 2	5208.238	---	PASS
		5230	36.770	5211.491	5248.261	---	PASS
		5755	36.382	5736.76 9	5773.151	---	PASS
		5795	36.625	5776.67 7	5813.302	---	PASS
11AC80S ISO	Ant1	5210	75.503	5172.24 7	5247.750	---	PASS
		5775	75.754	5737.13 7	5812.891	---	PASS

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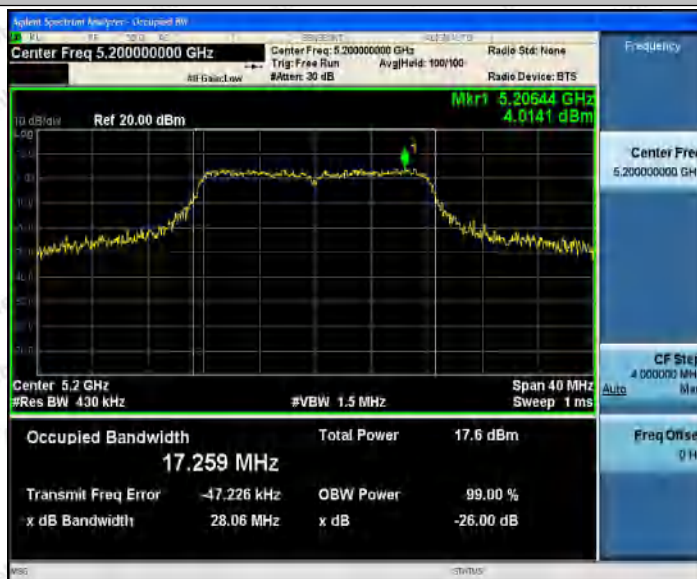
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Test Graphs

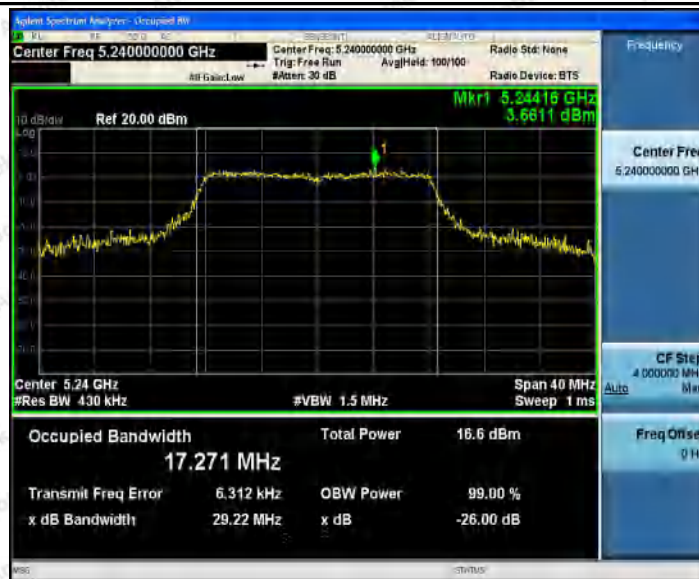
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11A_Ant1_5200



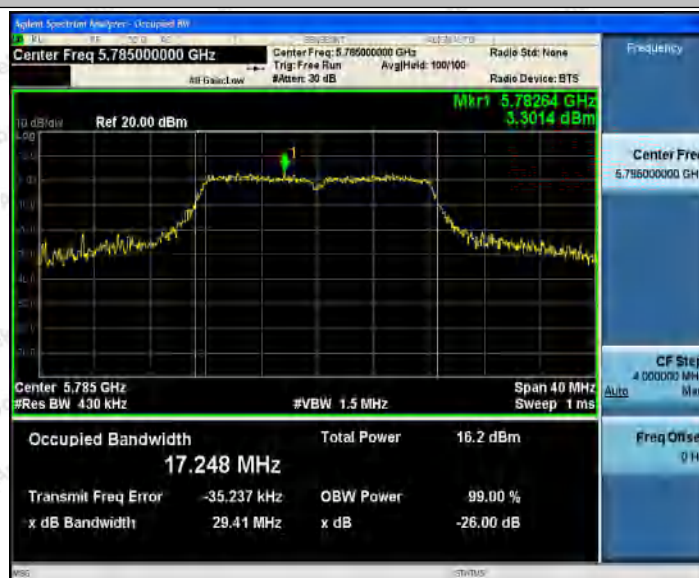
11A_Ant1_5240



11A_Ant1_5745



11A_Ant1_5785



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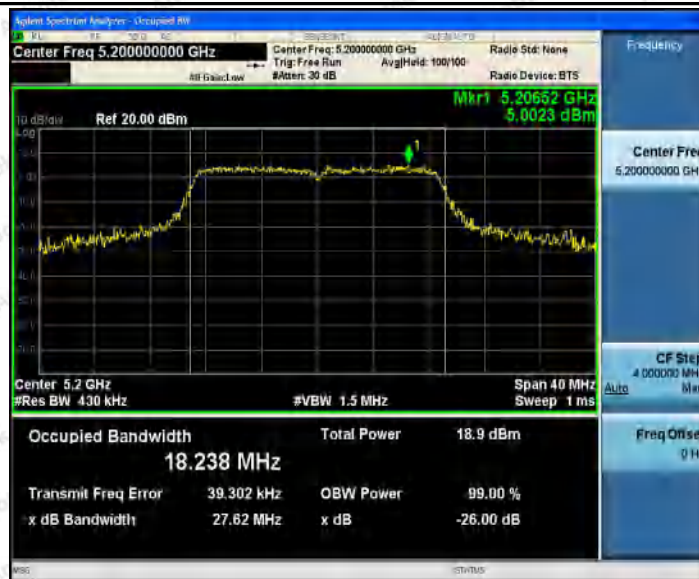
11A_Ant1_5825



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



11N20SISO_Ant1_5245



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11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



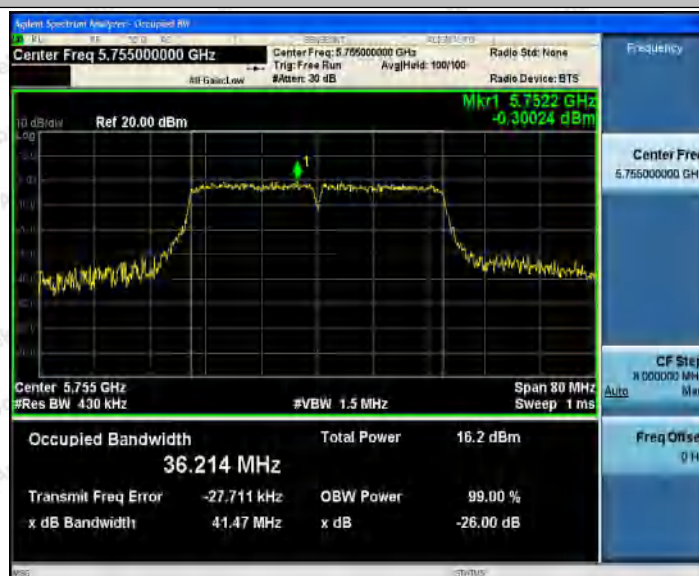
11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11N40SISO_Ant1_5755



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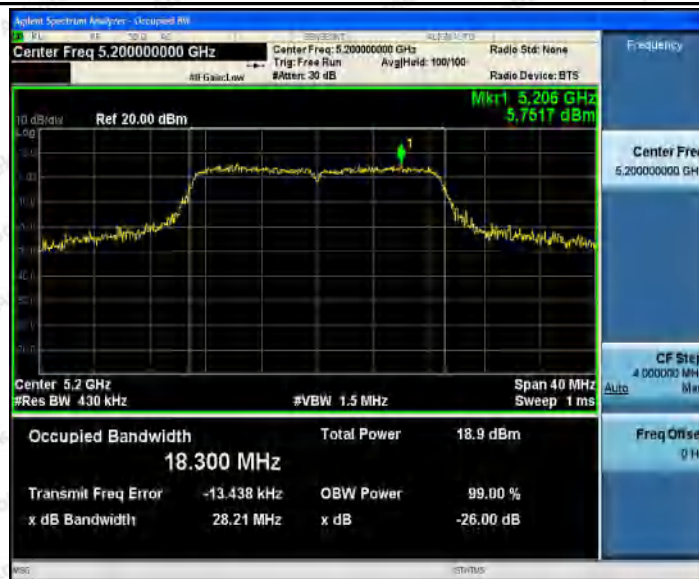
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11AC20SISO_Ant1_5180



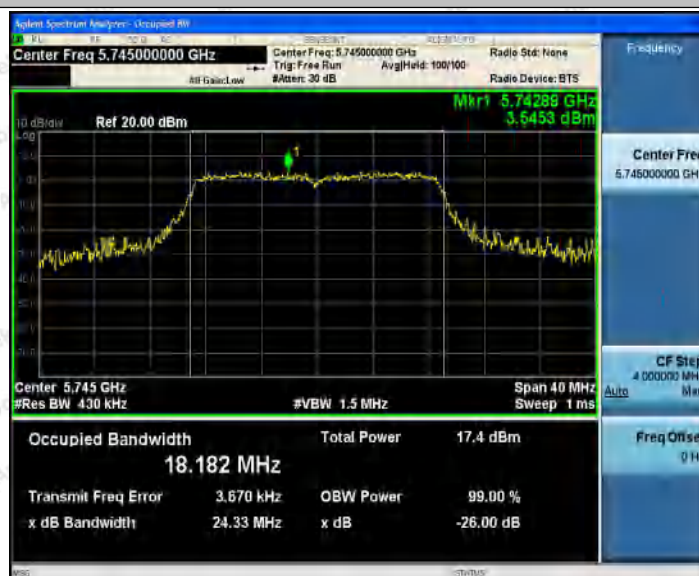
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11AC20SISO_Ant1_5240



11AC20SISO_Ant1_5745



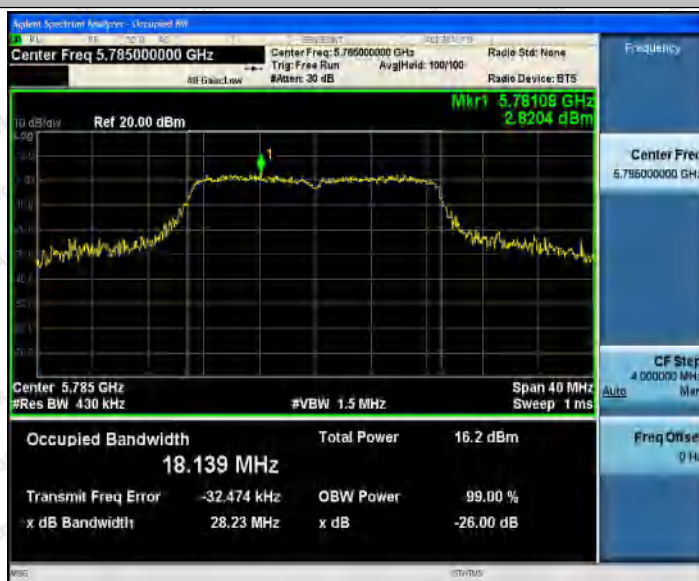
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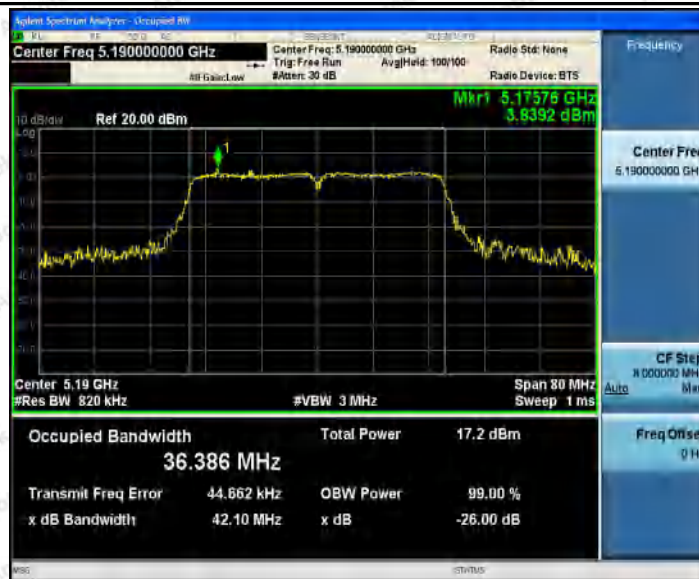
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11AC20SISO_Ant1_5825



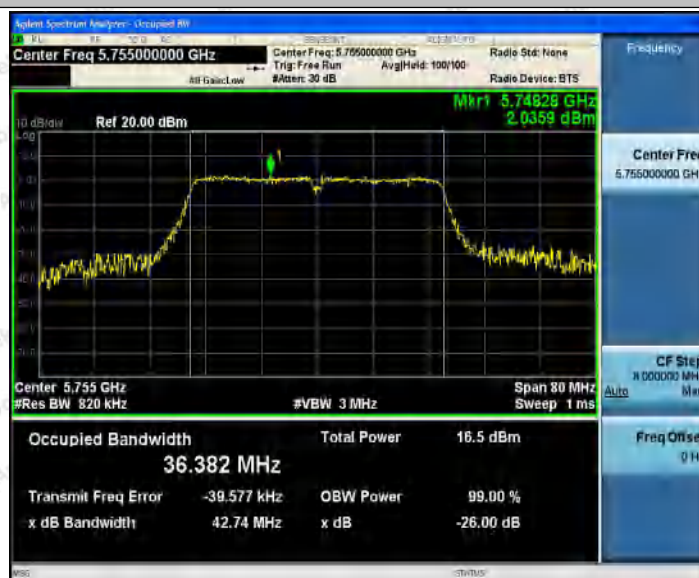
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC40SISO_Ant1_5755



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11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



11AC80SISO_Ant1_5775



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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	16.400	5736.800	5753.200	0.5	PASS
		5785	16.400	5776.800	5793.200	0.5	PASS
		5825	16.400	5816.800	5833.200	0.5	PASS
11N20SI SO	Ant1	5745	17.640	5736.160	5753.800	0.5	PASS
		5785	17.400	5776.160	5793.560	0.5	PASS
		5825	17.320	5816.440	5833.760	0.5	PASS
11N40SI SO	Ant1	5755	35.600	5737.000	5772.600	0.5	PASS
		5795	35.840	5777.000	5812.840	0.5	PASS
11AC20S ISO	Ant1	5745	17.400	5736.400	5753.800	0.5	PASS
		5785	17.400	5776.160	5793.560	0.5	PASS
		5825	17.080	5816.440	5833.520	0.5	PASS
11AC40S ISO	Ant1	5755	35.600	5737.000	5772.600	0.5	PASS
		5795	35.520	5777.080	5812.600	0.5	PASS
11AC80S ISO	Ant1	5775	75.360	5737.240	5812.600	0.5	PASS

Test Graphs

11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



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11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



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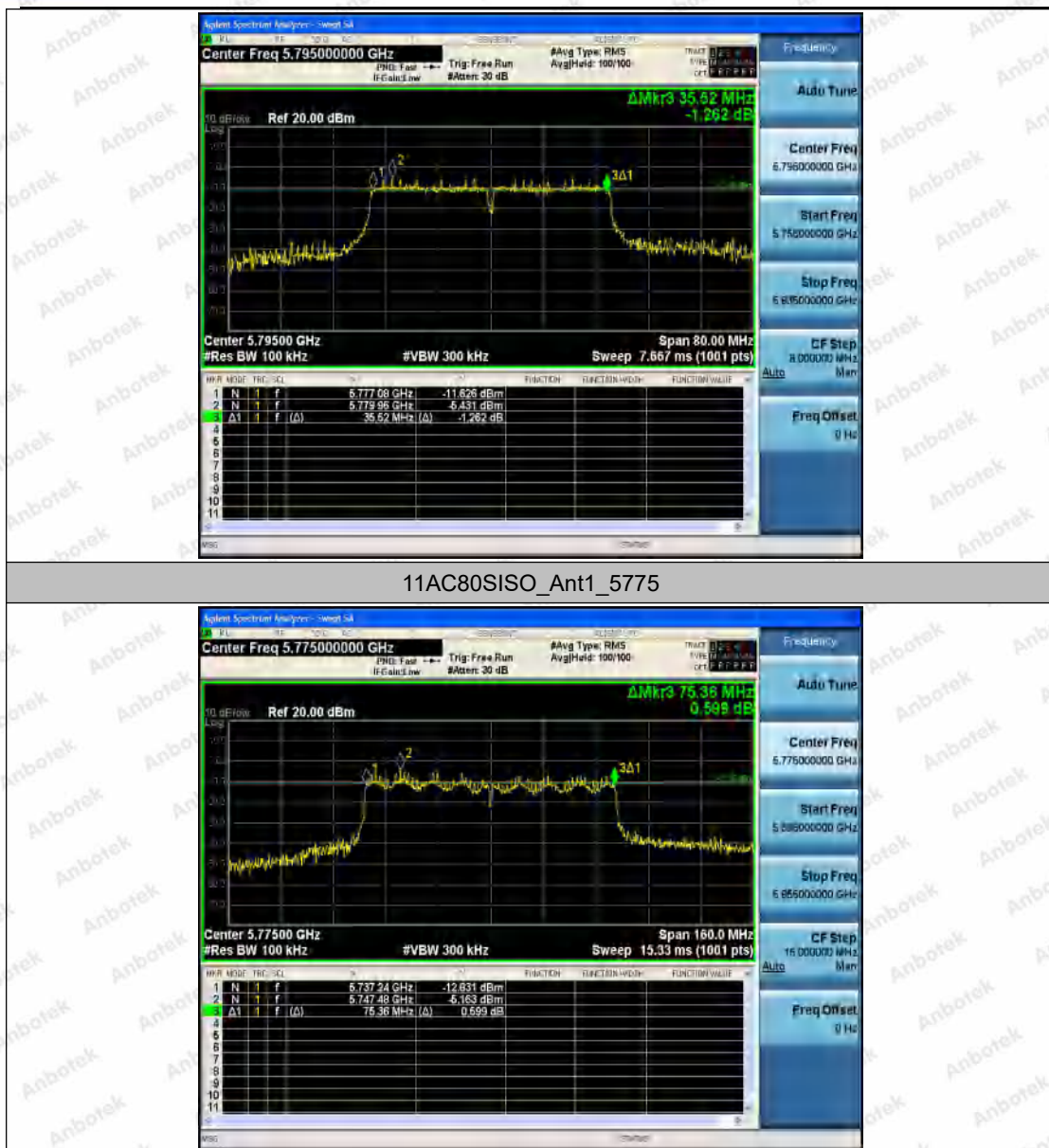
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



Appendix B: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	11.17	≤23.98	PASS
		5200	11.48	≤23.98	PASS
		5240	10.58	≤23.98	PASS
		5745	11.53	≤30	PASS
		5785	10.16	≤30	PASS
		5825	10.20	≤30	PASS
11N20SISO	Ant1	5180	11.26	≤23.98	PASS
		5200	12.76	≤23.98	PASS
		5240	11.62	≤23.98	PASS
		5745	11.32	≤30	PASS
		5785	9.98	≤30	PASS
		5825	10.27	≤30	PASS
11N40SISO	Ant1	5190	11.34	≤23.98	PASS
		5230	10.70	≤23.98	PASS
		5755	10.20	≤30	PASS
		5795	8.93	≤30	PASS
11AC20SISO	Ant1	5180	12.51	≤23.98	PASS
		5200	12.95	≤23.98	PASS
		5240	11.65	≤23.98	PASS
		5745	11.22	≤30	PASS
		5785	10.03	≤30	PASS
		5825	10.29	≤30	PASS
11AC40SISO	Ant1	5190	12.53	≤23.98	PASS
		5230	9.80	≤23.98	PASS
		5755	11.77	≤30	PASS
		5795	8.29	≤30	PASS
11AC80SISO	Ant1	5210	10.73	≤23.98	PASS
		5775	10.25	≤30	PASS

Appendix C: Maximum power spectral density

Test Result

Wifi 5.2G

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	7.76	≤11	PASS
		5200	7.7	≤11	PASS
		5240	7.24	≤11	PASS
11N20SISO	Ant1	5180	7.86	≤11	PASS
		5200	9.53	≤11	PASS
		5240	8.01	≤11	PASS
11N40SISO	Ant1	5190	4.19	≤11	PASS
		5230	3.57	≤11	PASS
11AC20SISO	Ant1	5180	9.33	≤11	PASS
		5200	8.98	≤11	PASS
		5240	7.92	≤11	PASS
11AC40SISO	Ant1	5190	3.55	≤11	PASS
		5230	3.04	≤11	PASS
11AC80SISO	Ant1	5210	1.73	≤11	PASS

Wifi 5.8G

TestMode	Antenna	Channel	Result [dBm/500KHz]	Limit [dBm/500KHz]	Verdict
11A	Ant1	5745	4.34	≤30	PASS
		5785	2.11	≤30	PASS
		5825	2.92	≤30	PASS
11N20SISO	Ant1	5745	3.75	≤30	PASS
		5785	2.77	≤30	PASS
		5825	3.92	≤30	PASS
11N40SISO	Ant1	5755	-0.86	≤30	PASS
		5795	-1.66	≤30	PASS
11AC20SISO	Ant1	5745	3.42	≤30	PASS
		5785	3.29	≤30	PASS
		5825	2.73	≤30	PASS
11AC40SISO	Ant1	5755	-1.38	≤30	PASS
		5795	-2.33	≤30	PASS
11AC80SISO	Ant1	5775	-2.51	≤30	PASS

Test Graphs

11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240



11A_Ant1_5745



11A_Ant1_5785



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11A_Ant1_5825



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



11N20SISO_Ant1_5745



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11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5190

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11N40SISO_Ant1_5230



11N40SISO_Ant1_5755



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11N40SISO_Ant1_5795



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC20SISO_Ant1_5745



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11AC40SISO_Ant1_5755



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11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



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	-35.33	≤-27	PASS
		High	5240	-44.79	≤-27	PASS
11N20SI SO	Ant1	Low	5180	-34.76	≤-27	PASS
		High	5240	-44.61	≤-27	PASS
11N40SI SO	Ant1	Low	5190	-28.15	≤-27	PASS
		High	5230	-44.05	≤-27	PASS
11AC20S ISO	Ant1	Low	5180	-34.17	≤-27	PASS
		High	5240	-43.95	≤-27	PASS
11AC40S ISO	Ant1	Low	5190	-29.11	≤-27	PASS
		High	5230	-44.51	≤-27	PASS
11AC80S ISO	Ant1	Low	5210	-27.9	≤-27	PASS
		High	5210	-43.75	≤-27	PASS

TestMode	Antenna	ChName	Channel	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-43.25	≤4.25	PASS
				5700~5720	-33.71	≤15.37	PASS
				5720~5725	-26.48	≤25.78	PASS
				5755~5650	-43.65	≤-27	PASS
		High	5825	5850~5855	-32.77	≤21.98	PASS
				5855~5875	-34.03	≤10.48	PASS
				5875~5925	-43.79	≤-26.22	PASS
				5925~5950	-43.38	≤-27	PASS
11N20SI SO	Ant1	Low	5745	5650~5700	-42.01	≤7.00	PASS
				5700~5720	-33.35	≤14.46	PASS
				5720~5725	-20.79	≤25.43	PASS
				5755~5650	-43.7	≤-27	PASS
		High	5825	5850~5855	-33.13	≤15.83	PASS
				5855~5875	-36.21	≤10.39	PASS
				5875~5925	-43.35	≤8.30	PASS
				5925~5950	-43.66	≤-27	PASS
11N40SI SO	Ant1	Low	5755	5650~5700	-39.41	≤6.71	PASS
				5700~5720	-29.04	≤15.58	PASS
				5720~5725	-28.18	≤26.09	PASS
				5745~5650	-43.49	≤-27	PASS
		High	5795	5850~5855	-37.81	≤16.48	PASS

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				5855~5875	-41.61	≤10.70	PASS
				5875~5925	-43.36	≤-17.00	PASS
				5925~5950	-43.57	≤-27	PASS
11AC20S ISO	Ant1	Low	5745	5650~5700	-42.47	≤-16.28	PASS
				5700~5720	-32.54	≤15.59	PASS
				5720~5725	-23.76	≤24.72	PASS
				5755~5650	-42.99	≤-27	PASS
		High	5825	5850~5855	-31.61	≤16.51	PASS
				5855~5875	-33.54	≤10.39	PASS
				5875~5925	-42.94	≤-19.23	PASS
				5925~5950	-43.51	≤-27	PASS
11AC40S ISO	Ant1	Low	5755	5650~5700	-40.82	≤8.31	PASS
				5700~5720	-31.52	≤15.48	PASS
				5720~5725	-28.18	≤22.26	PASS
				5745~5650	-42.99	≤-27	PASS
		High	5795	5850~5855	-38.07	≤16.15	PASS
				5855~5875	-42	≤10.53	PASS
				5875~5925	-43.96	≤-8.09	PASS
				5925~5950	-43.8	≤-27	PASS
11AC80S ISO	Ant1	Low	5775	5650~5700	-33.01	≤0.10	PASS
				5700~5720	-28.52	≤15.59	PASS
				5720~5725	-26.02	≤26.41	PASS
				5765~5650	-41.61	≤-27	PASS
		High	5775	5850~5855	-29.49	≤24.08	PASS
				5855~5875	-27.55	≤11.43	PASS
				5875~5925	-35.85	≤-26.65	PASS
				5925~5950	-42.97	≤-27	PASS

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Test Graphs

11A_Ant1_Low_5180



11A_Ant1_High_5240



11N20SISO_Ant1_Low_5180



11N20SISO_Ant1_High_5240



11N40SISO_Ant1_Low_5190



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11N40SISO_Ant1_High_5230



11AC20SISO_Ant1_Low_5180



11AC20SISO_Ant1_High_5240

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11AC40SISO_Ant1_Low_5190



11AC40SISO_Ant1_High_5230



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11AC80SISO_Ant1_Low_5210



11AC80SISO_Ant1_High_5210



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11A_Ant1_Low_5745



11A_Ant1_High_5825



11N20SISO_Ant1_Low_5745



11N20SISO_Ant1_High_5825



11N40SISO_Ant1_Low_5755



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11N40SISO_Ant1_High_5795



11AC20SISO_Ant1_Low_5745



11AC20SISO_Ant1_High_5825

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11AC40SISO_Ant1_Low_5755



11AC40SISO_Ant1_High_5795



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11AC80SISO_Ant1_Low_5775



11AC80SISO_Ant1_High_5775



Appendix E: Duty Cycle

Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant1	5180	2.06	2.19	94.06	---	PASS
		5200	2.07	2.24	92.41	---	PASS
		5240	2.06	2.18	94.50	---	PASS
		5745	2.06	2.23	92.38	---	PASS
		5785	2.06	2.23	92.38	---	PASS
		5825	2.07	2.20	94.09	---	PASS
11N20SISO	Ant1	5180	1.92	2.08	92.31	---	PASS
		5200	1.92	2.06	93.20	---	PASS
		5240	1.92	2.04	94.12	---	PASS
		5745	1.92	2.09	91.87	---	PASS
		5785	1.92	2.08	92.31	---	PASS
		5825	1.92	2.07	92.75	---	PASS
11N40SISO	Ant1	5190	0.94	1.11	84.68	---	PASS
		5230	0.94	1.12	83.93	---	PASS
		5755	0.94	1.10	85.45	---	PASS
		5795	0.94	1.11	84.68	---	PASS
11AC20SISO	Ant1	5180	1.94	2.07	93.72	---	PASS
		5200	1.94	2.10	92.38	---	PASS
		5240	1.93	2.06	93.69	---	PASS
		5745	1.93	2.02	95.54	---	PASS
		5785	1.93	2.08	92.79	---	PASS
		5825	1.93	2.09	92.34	---	PASS
11AC40SISO	Ant1	5190	0.95	1.10	86.36	---	PASS
		5230	0.95	1.12	84.82	---	PASS
		5755	0.96	1.13	84.96	---	PASS
		5795	0.95	1.06	89.62	---	PASS
11AC80SISO	Ant1	5210	0.46	0.64	71.88	---	PASS
		5775	0.46	0.63	73.02	---	PASS

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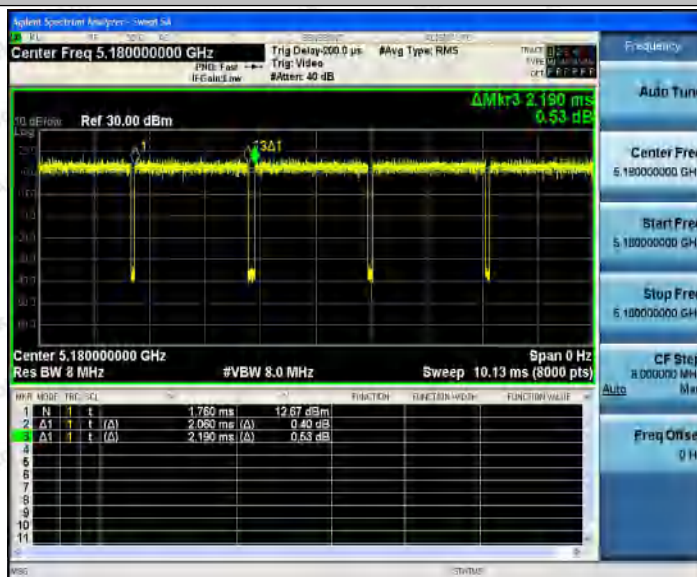
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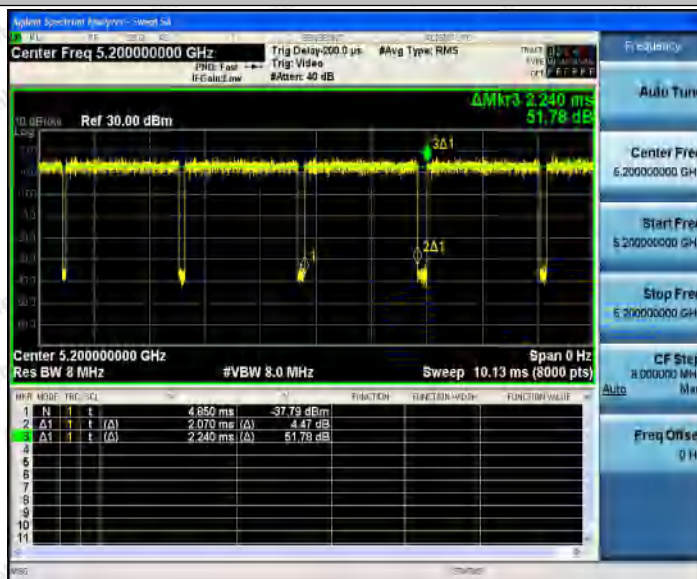
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Test Graphs

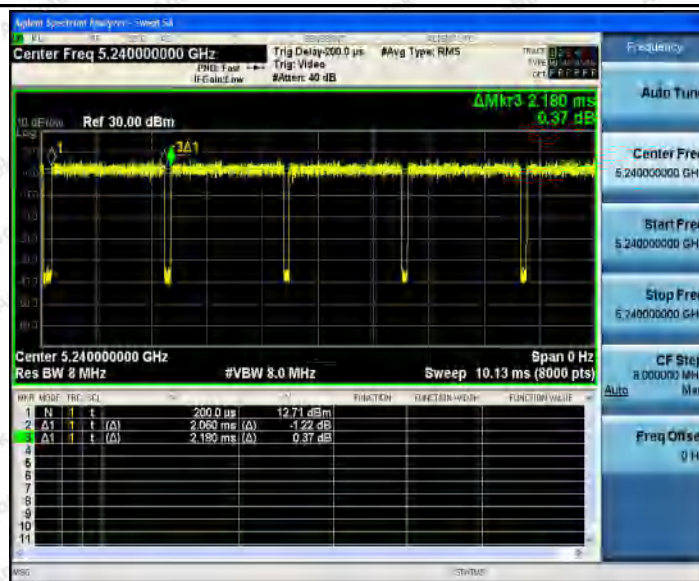
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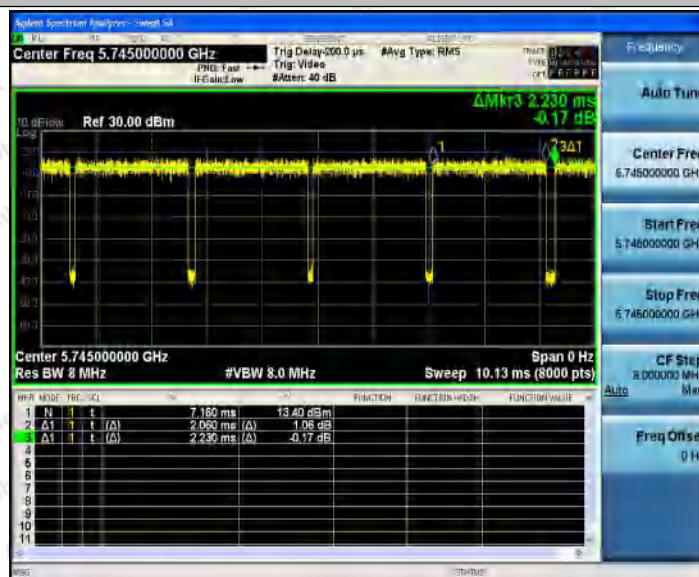
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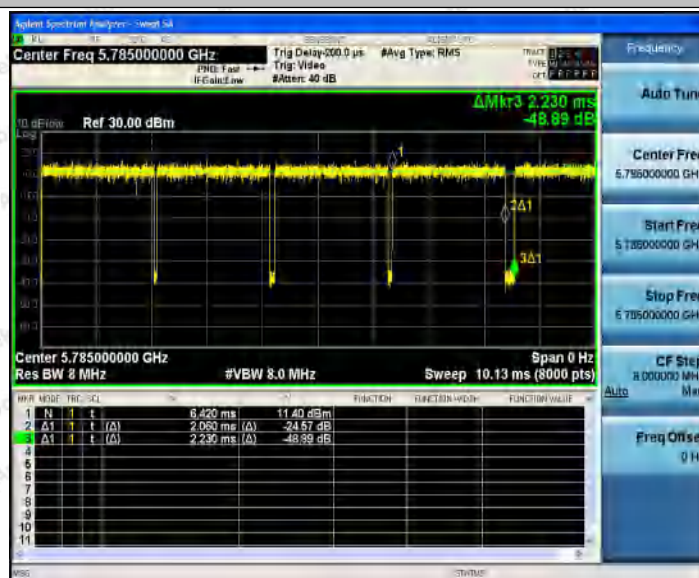
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11A_Ant1_5745



11A_Ant1_5785



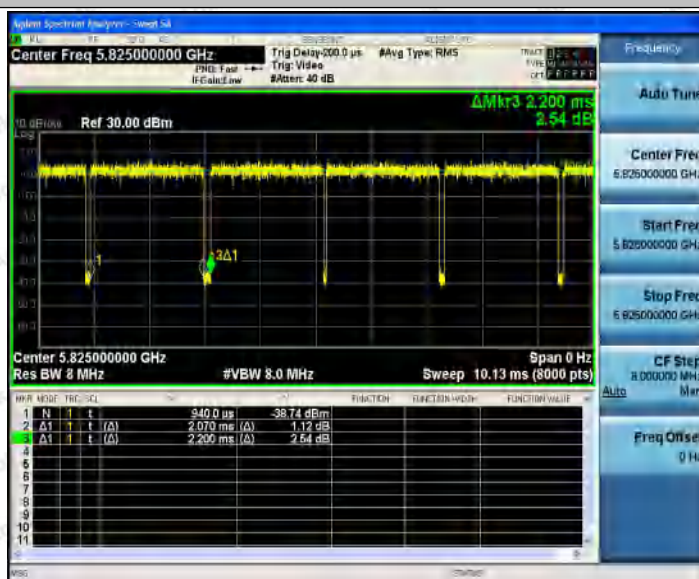
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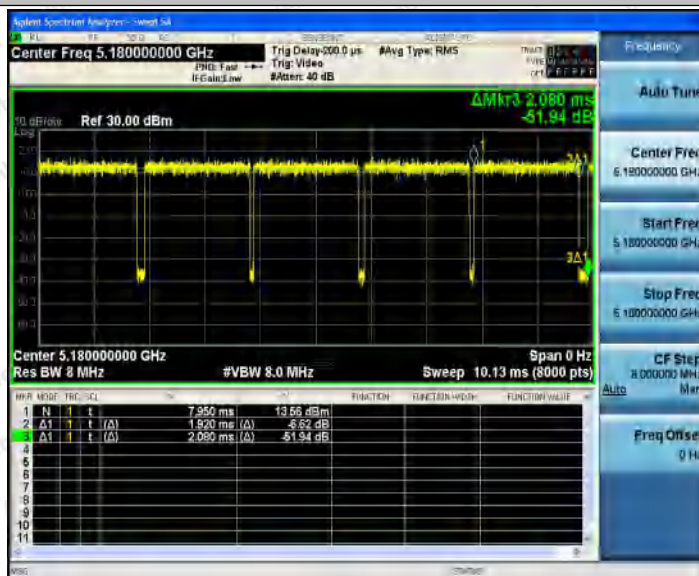
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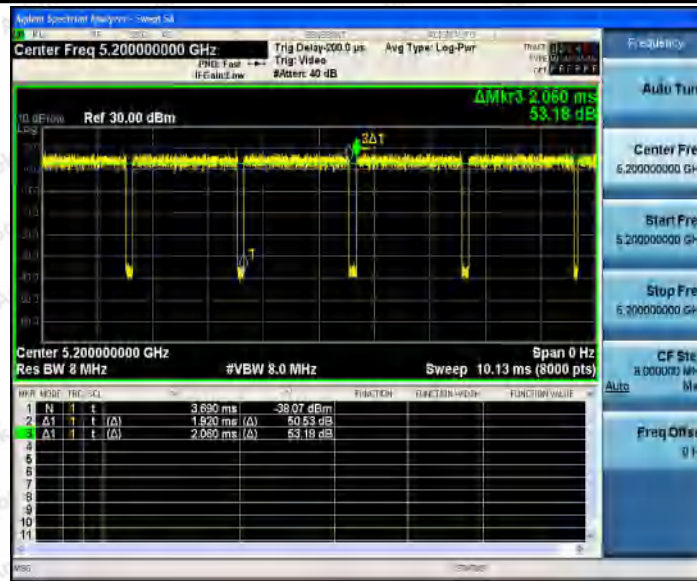
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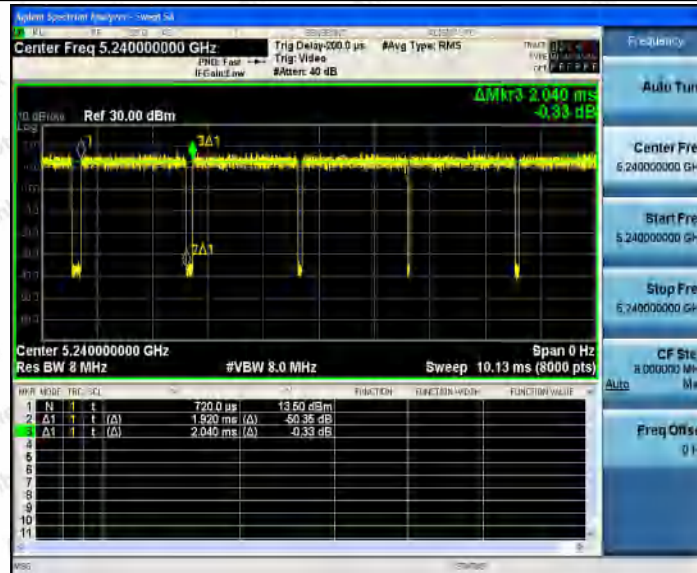
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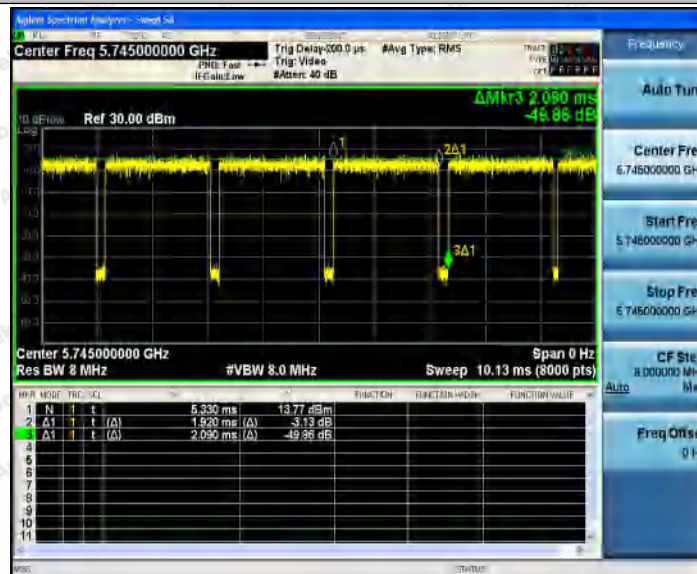
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11N20SISO_Ant1_5240



11N20SISO_Ant1_5745



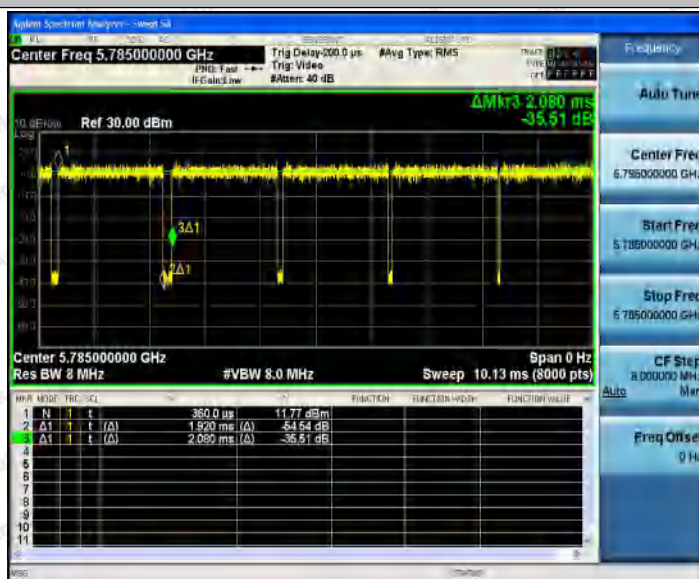
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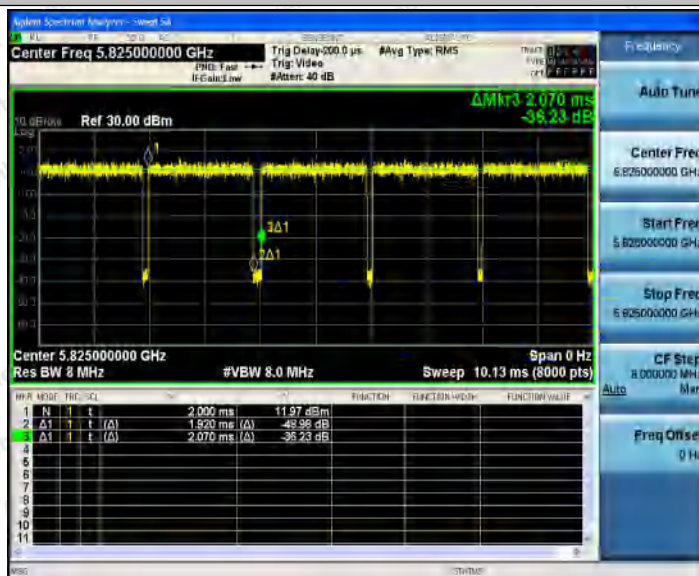
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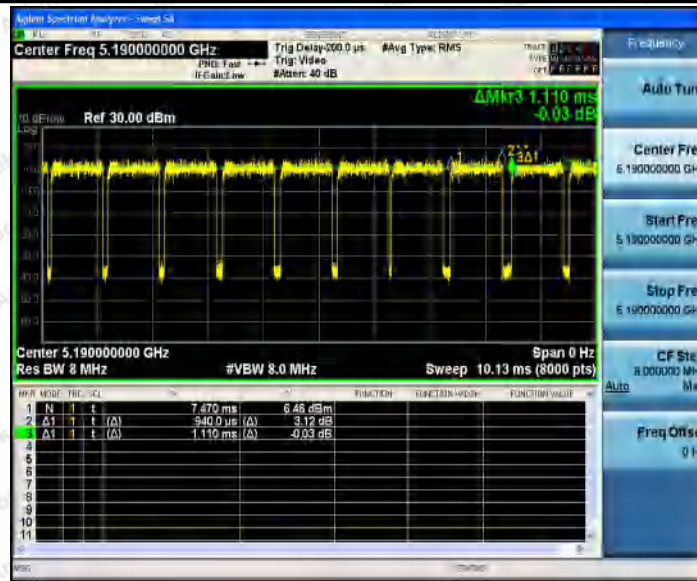
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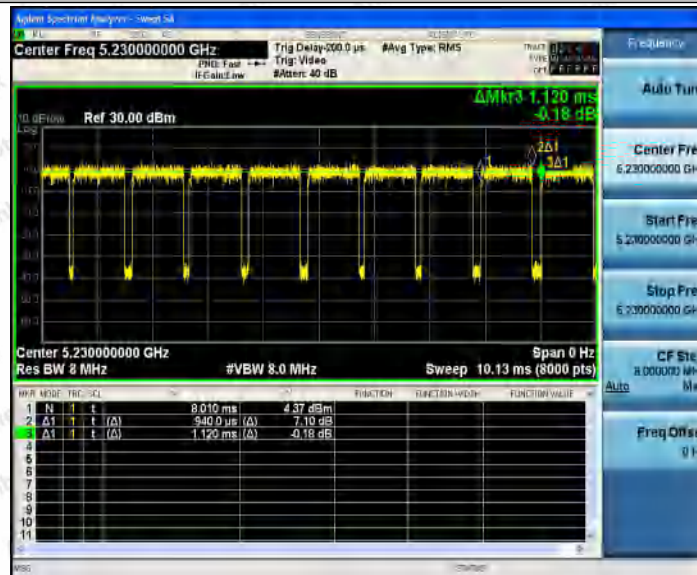
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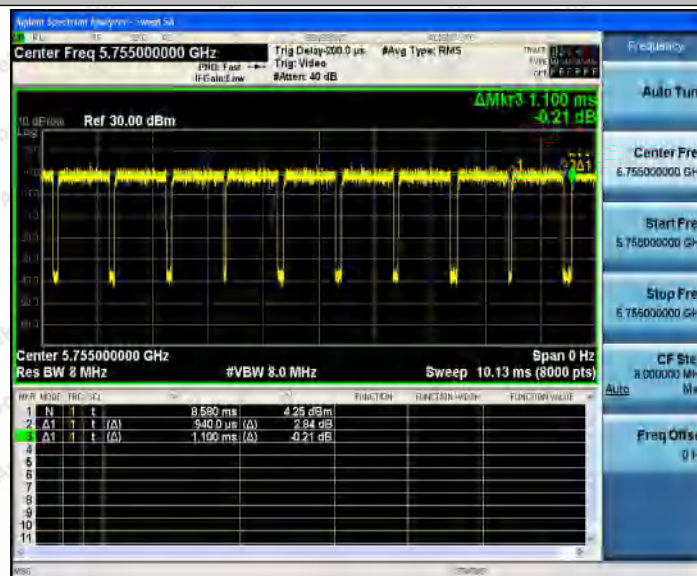
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11N40SISO_Ant1_5230



11N40SISO_Ant1_5755



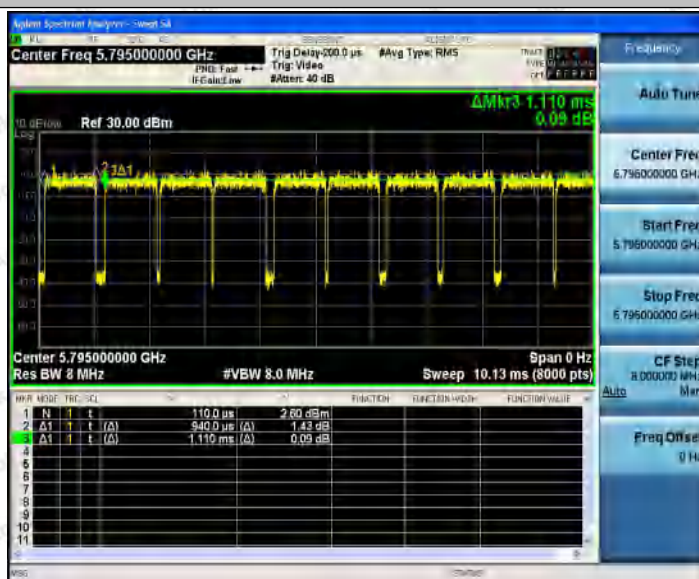
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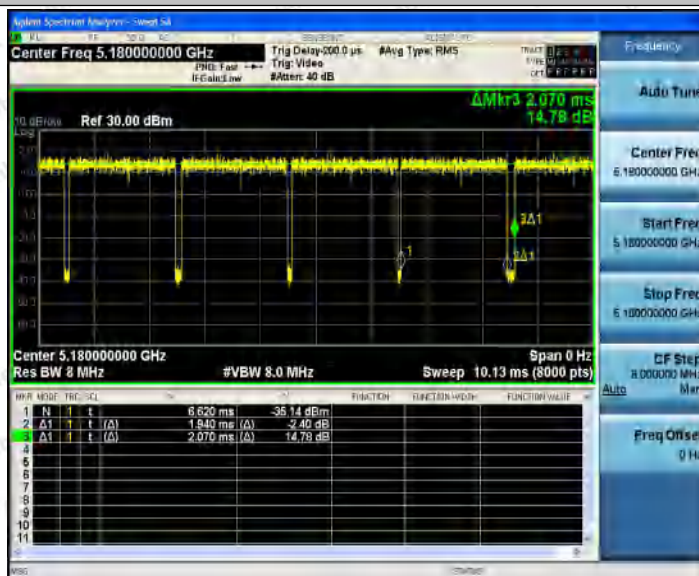
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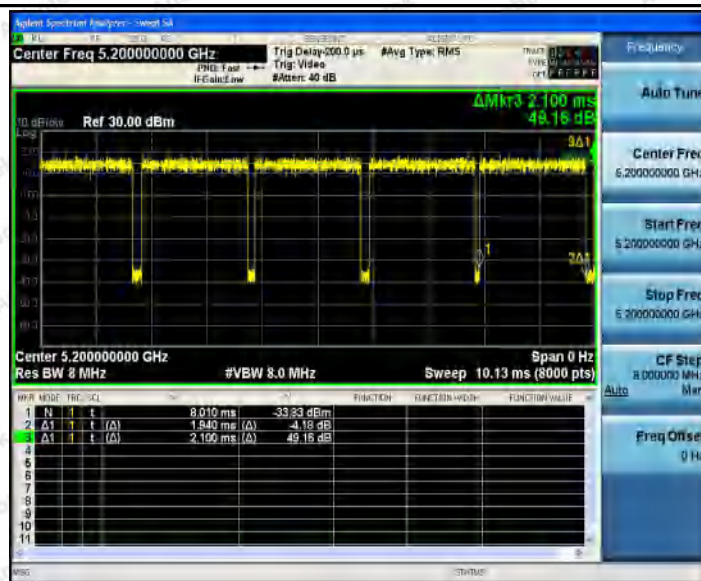
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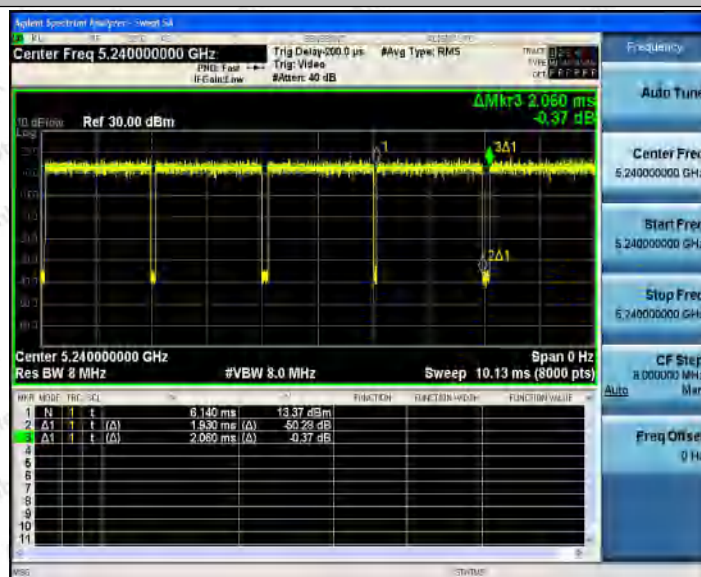
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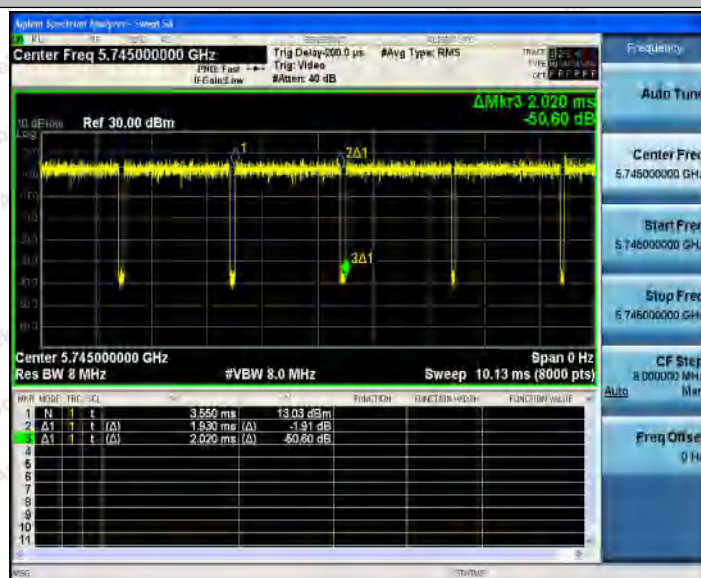
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11AC20SISO_Ant1_5240



11AC20SISO_Ant1_5745



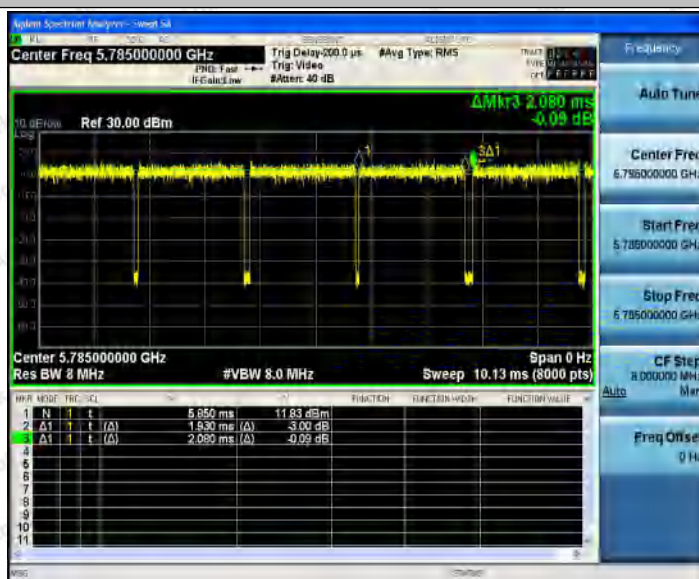
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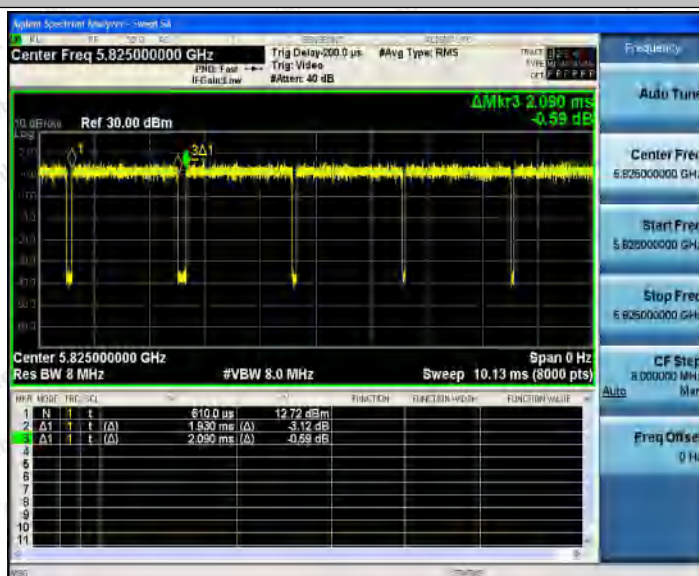
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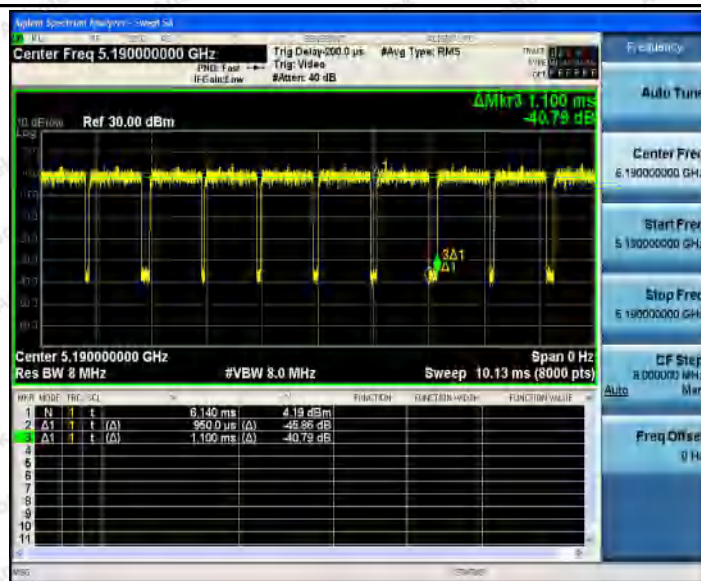
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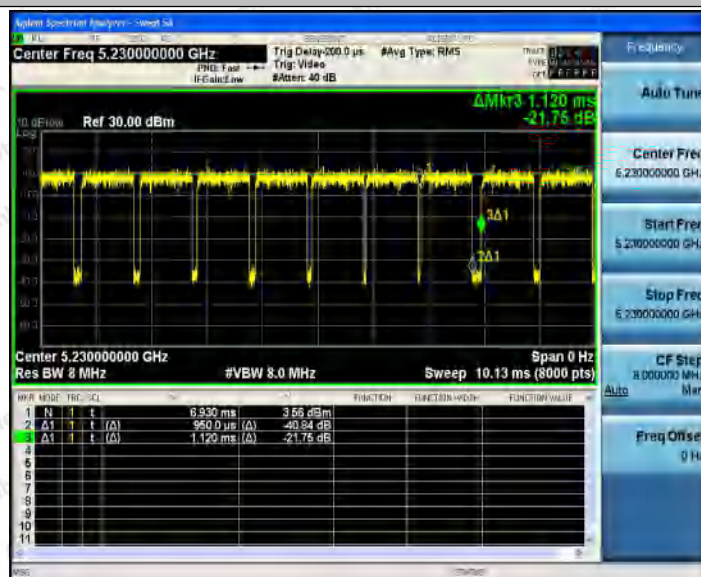
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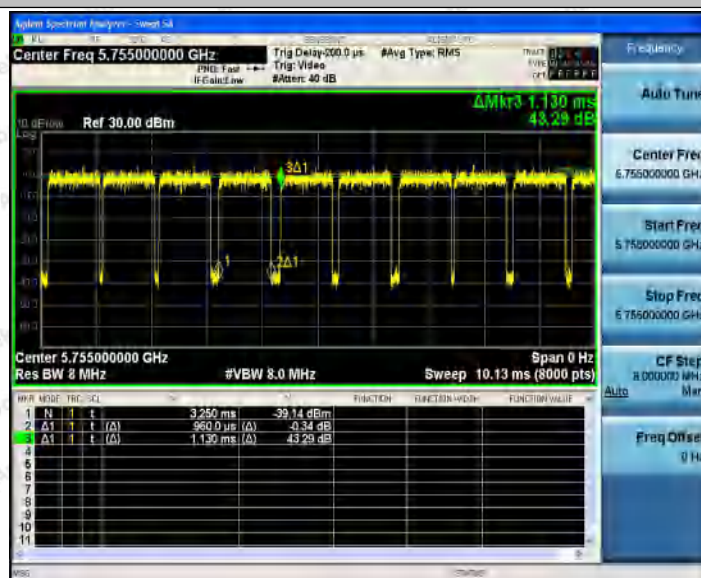
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11AC40SISO_Ant1_5230



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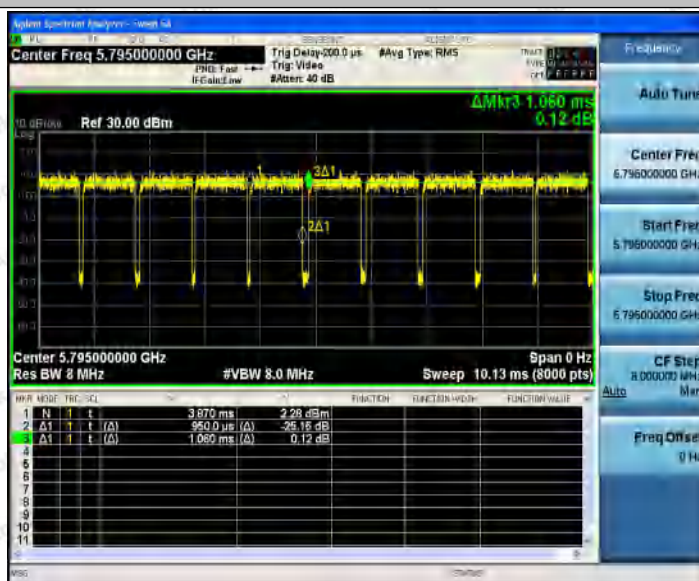
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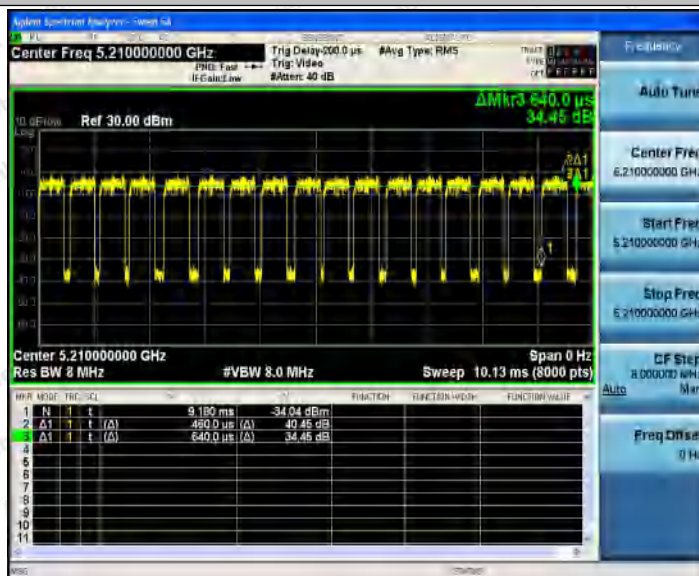
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11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5210



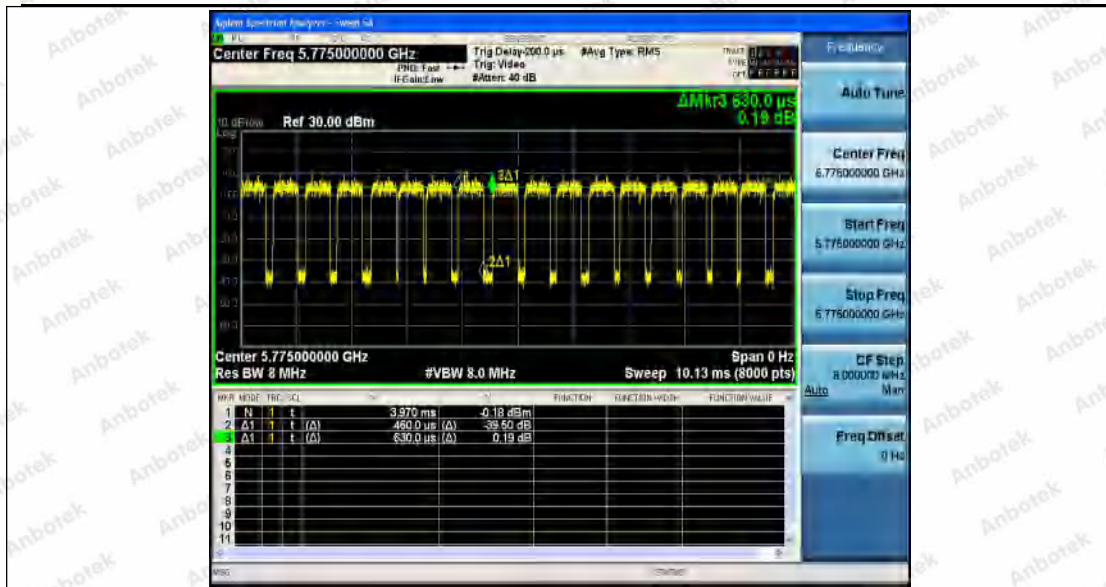
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