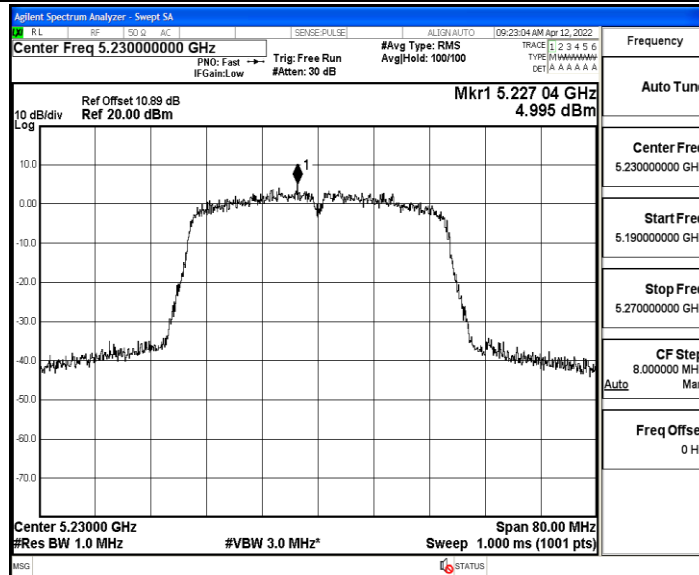
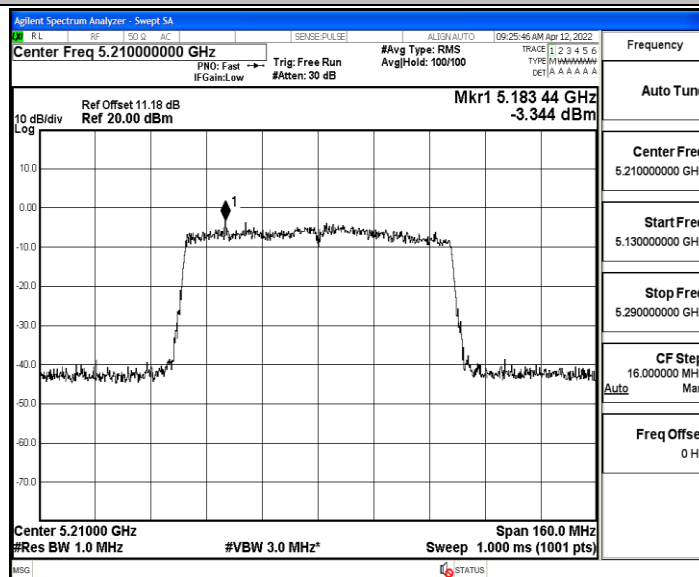


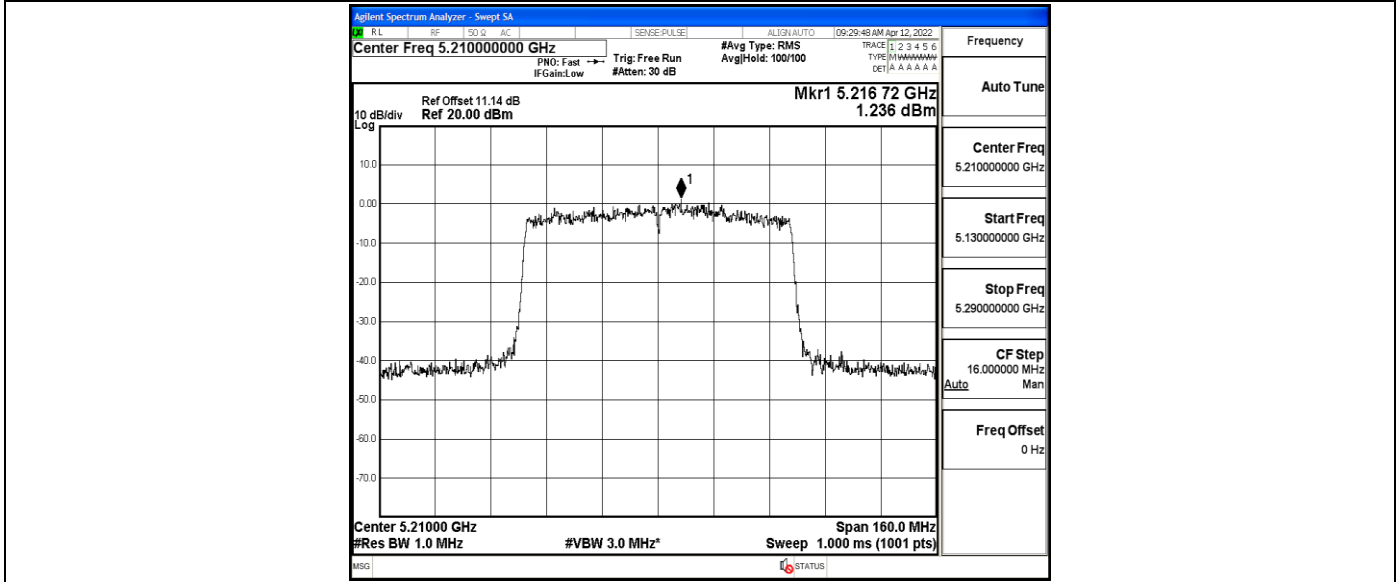
11AC40MIMO_Ant2_5230



11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210



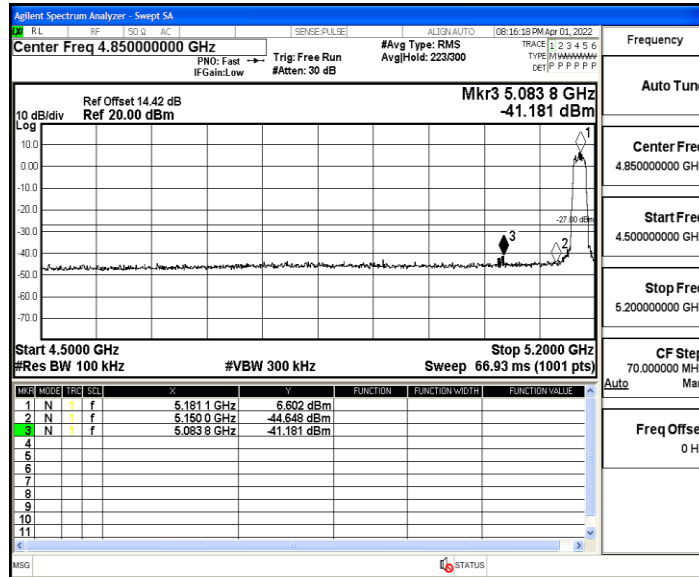
Appendix D: Band edge measurements

Test Result

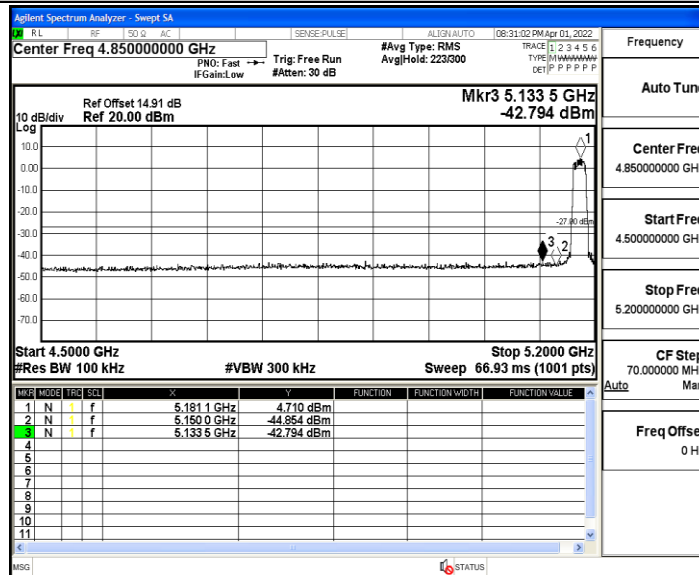
TestMode	Antenna	ChName	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-41.18	≤-27	PASS
	Ant2	Low	5180	-42.79	≤-27	PASS
	Ant1	High	5240	-43.08	≤-27	PASS
	Ant2	High	5240	-42.32	≤-27	PASS
11N20MIMO	Ant1	Low	5180	-43.55	≤-27	PASS
	Ant2	Low	5180	-41.92	≤-27	PASS
	Ant1	High	5240	-43.45	≤-27	PASS
	Ant2	High	5240	-42.76	≤-27	PASS
11N40MIMO	Ant1	Low	5190	-43.67	≤-27	PASS
	Ant2	Low	5190	-42.73	≤-27	PASS
	Ant1	High	5230	-43.2	≤-27	PASS
	Ant2	High	5230	-42.79	≤-27	PASS
11AC20MIMO	Ant1	Low	5180	-43.73	≤-27	PASS
	Ant2	Low	5180	-42.97	≤-27	PASS
	Ant1	High	5240	-43.46	≤-27	PASS
	Ant2	High	5240	-43.1	≤-27	PASS
11AC40MIMO	Ant1	Low	5190	-43.32	≤-27	PASS
	Ant2	Low	5190	-43.07	≤-27	PASS
	Ant1	High	5230	-43.86	≤-27	PASS
	Ant2	High	5230	-43.66	≤-27	PASS
11AC80MIMO	Ant1	Low	5210	-43.42	≤-27	PASS
	Ant2	Low	5210	-39.25	≤-27	PASS
	Ant1	High	5210	-44.01	≤-27	PASS
	Ant2	High	5210	-43.41	≤-27	PASS

Test Graphs

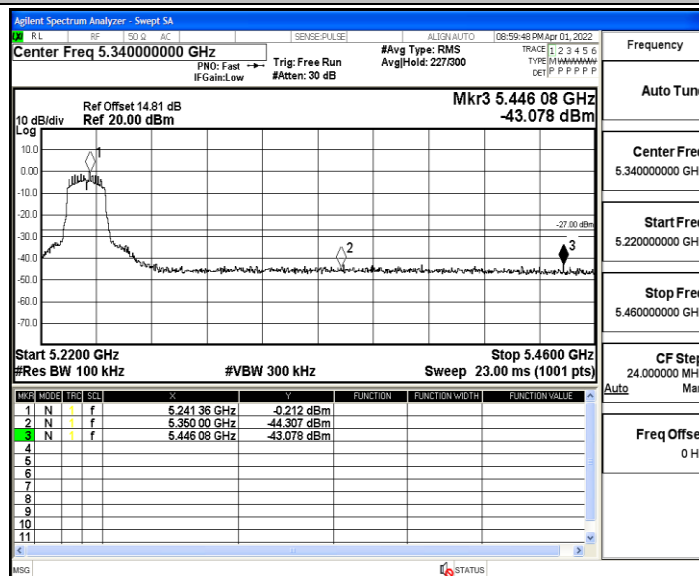
11A_Ant1_Low_5180



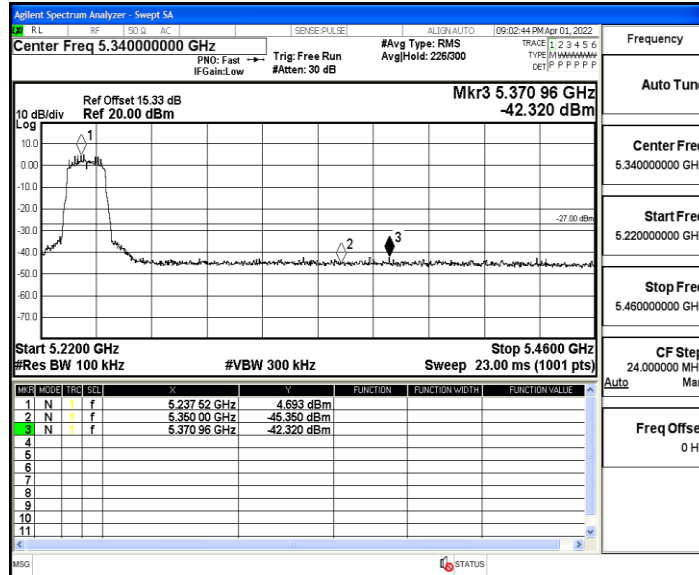
11A_Ant2_Low_5180



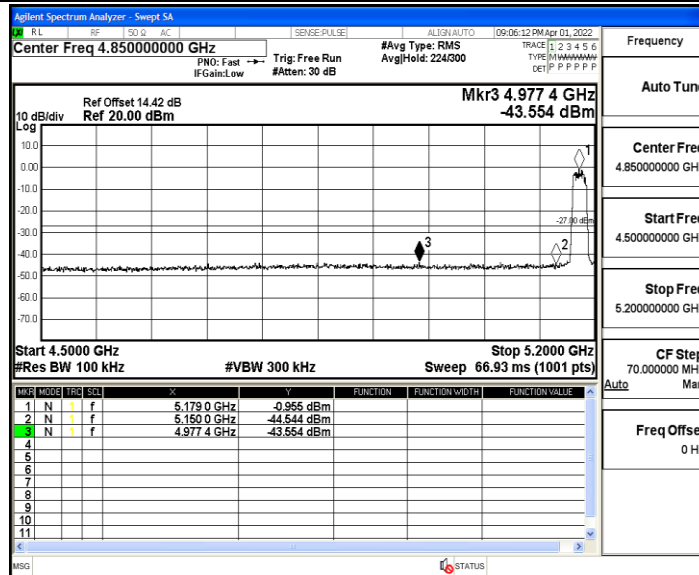
11A_Ant1_High_5240



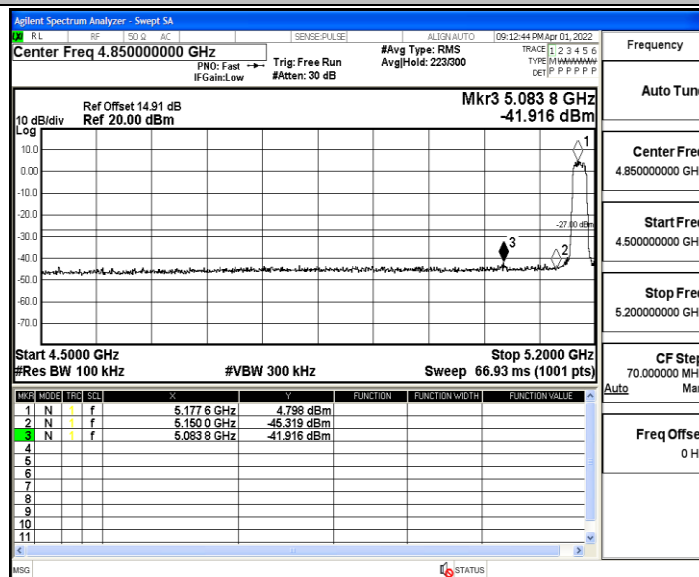
11A_Ant2_High_5240



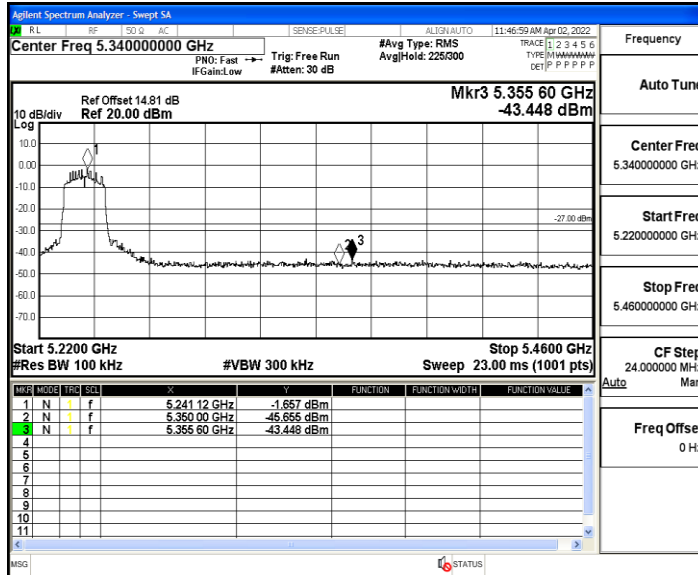
11N20MIMO_Ant1_Low_5180



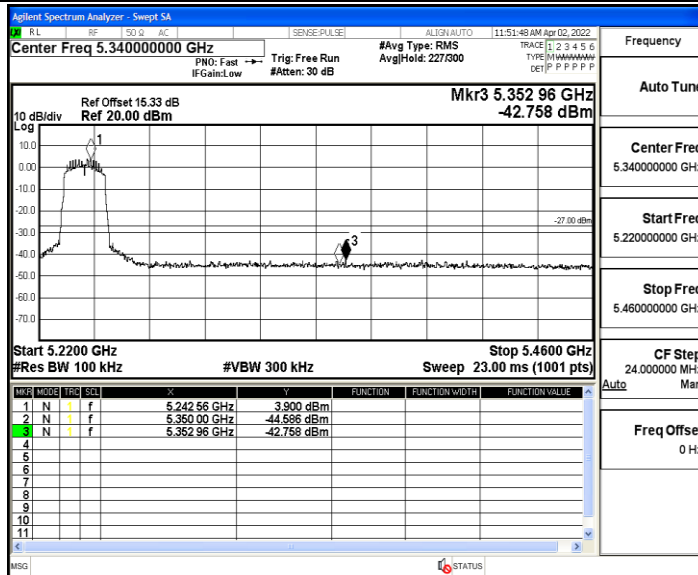
11N20MIMO_Ant2_Low_5180



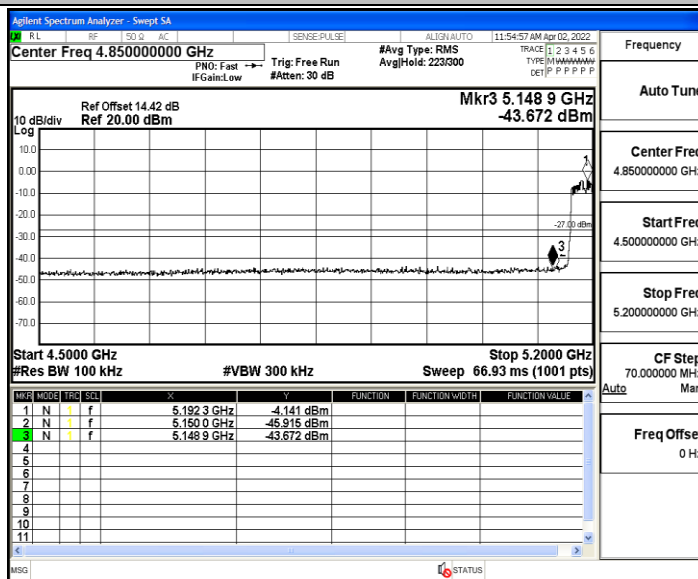
11N20MIMO_Ant1_High_5240



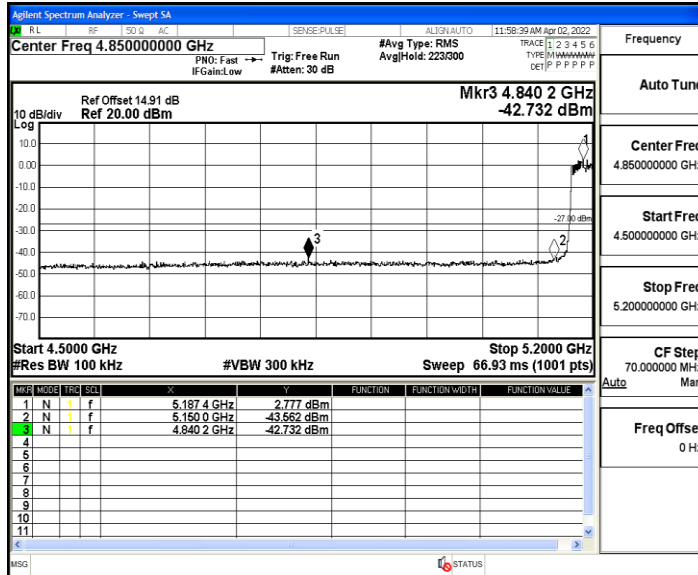
11N20MIMO_Ant2_High_5240



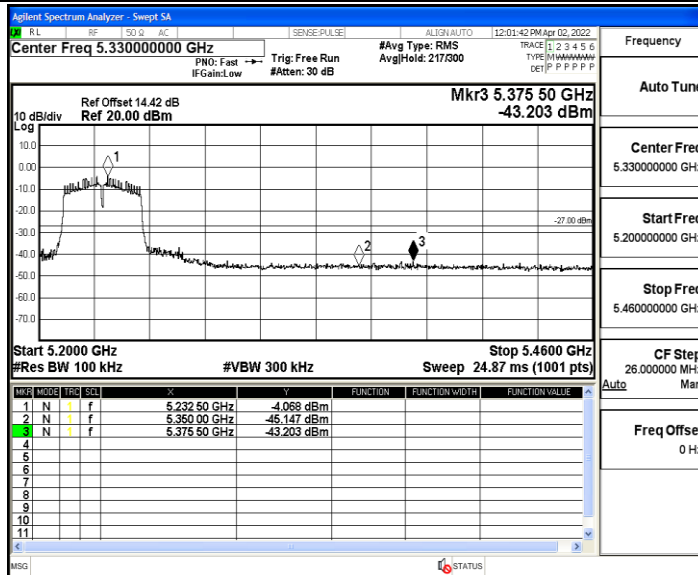
11N40MIMO_Ant1_Low_5190



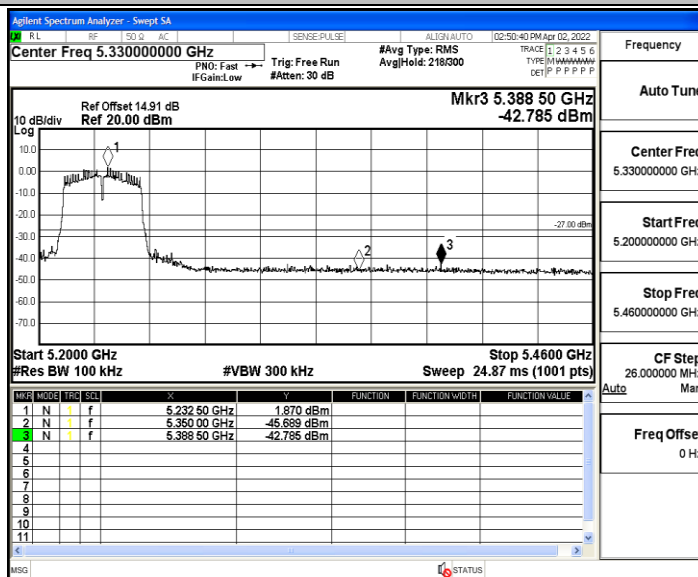
11N40MIMO_Ant2_Low_5190



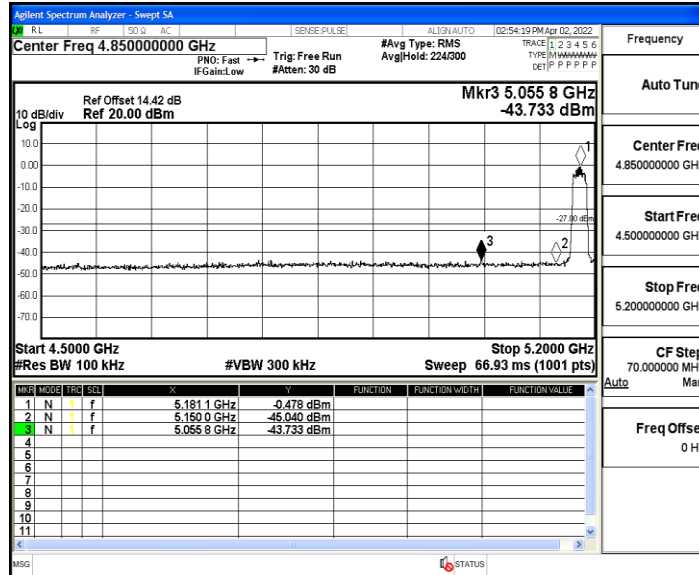
11N40MIMO_Ant1_High_5230



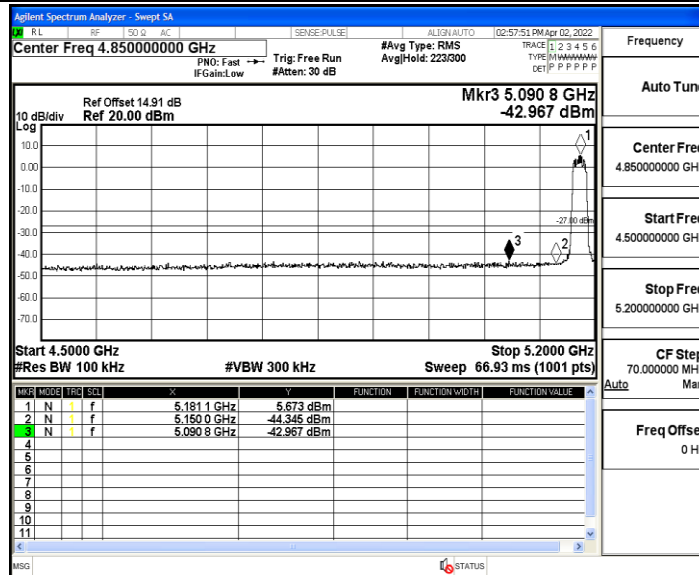
11N40MIMO_Ant2_High_5230



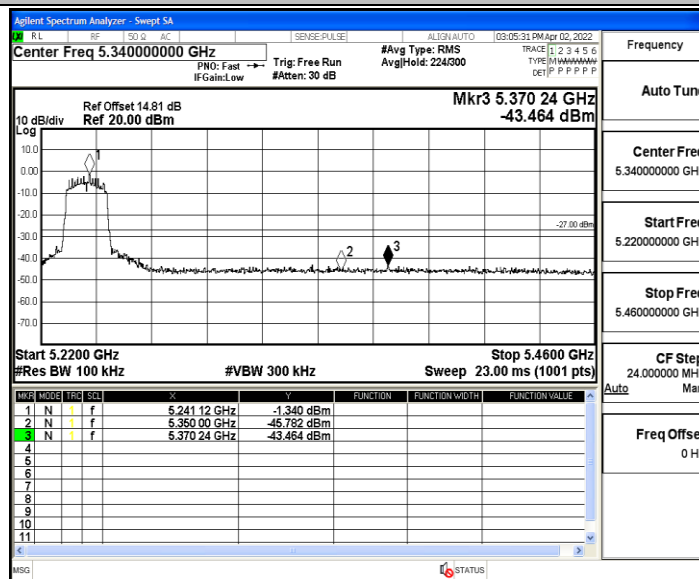
11AC20MIMO_Ant1_Low_5180



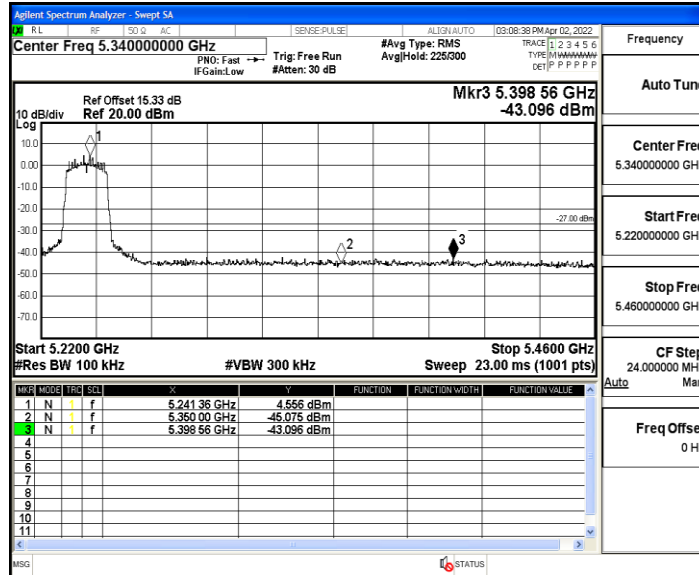
11AC20MIMO_Ant2_Low_5180



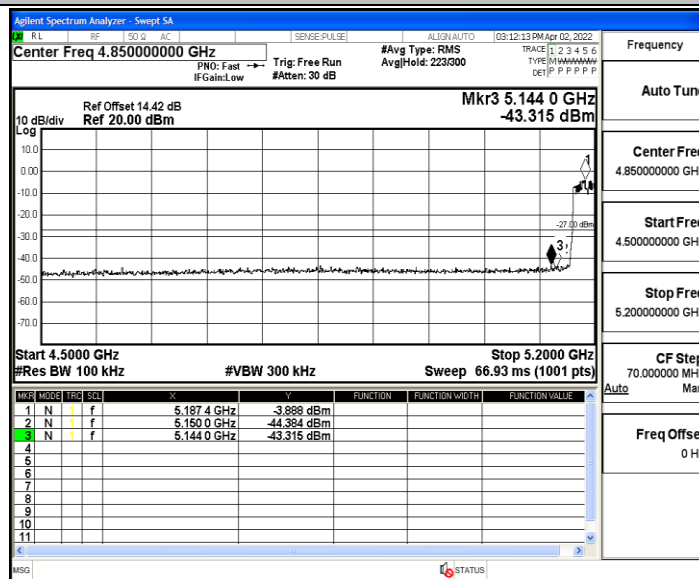
11AC20MIMO_Ant1_High_5240



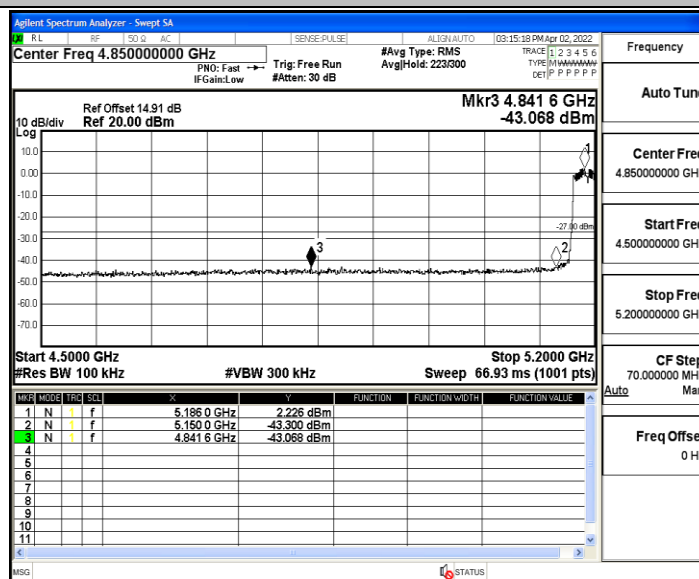
11AC20MIMO_Ant2_High_5240



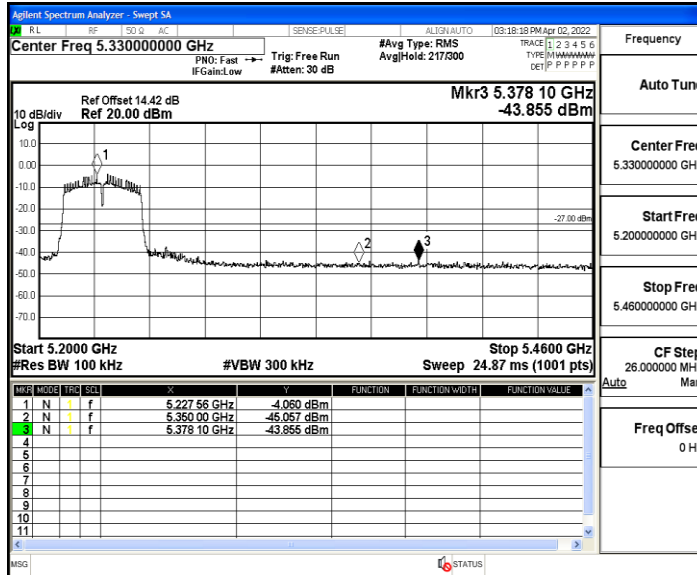
11AC40MIMO_Ant1_Low_5190



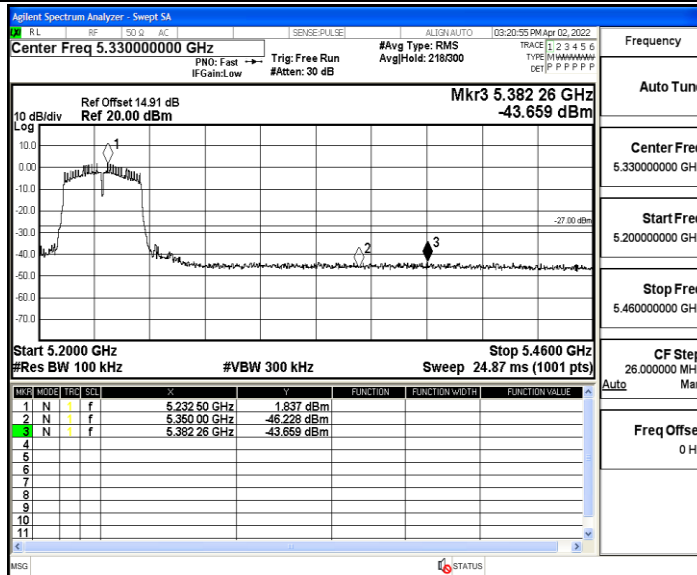
11AC40MIMO_Ant2_Low_5190



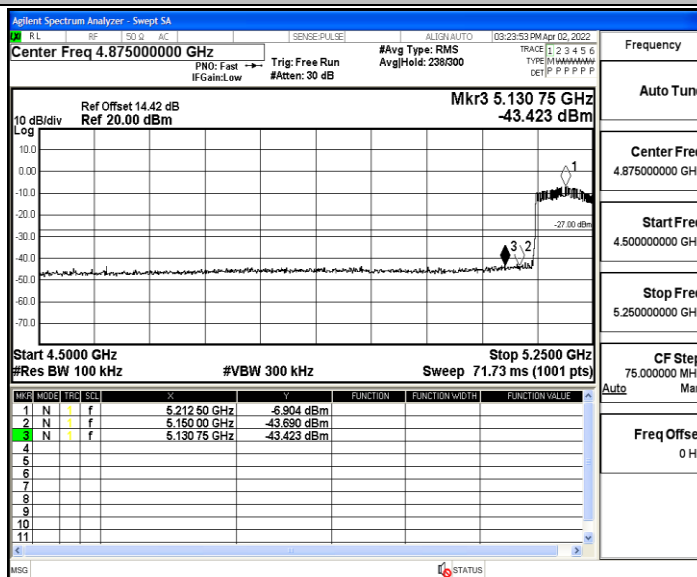
11AC40MIMO_Ant1_High_5230



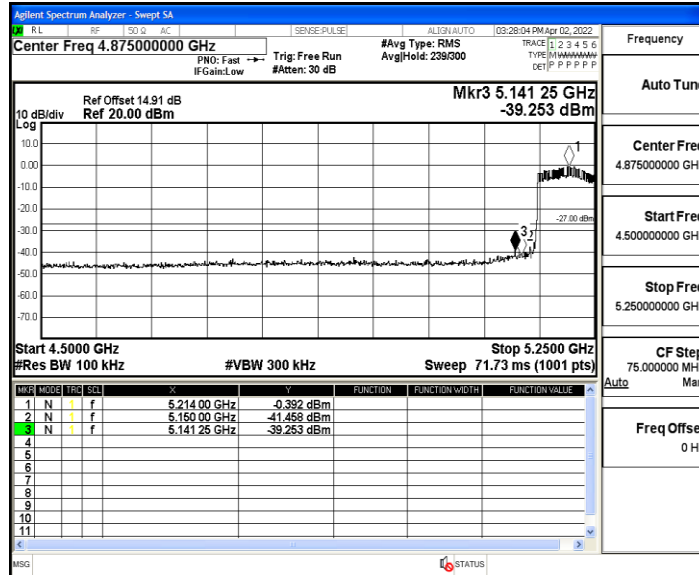
11AC40MIMO_Ant2_High_5230



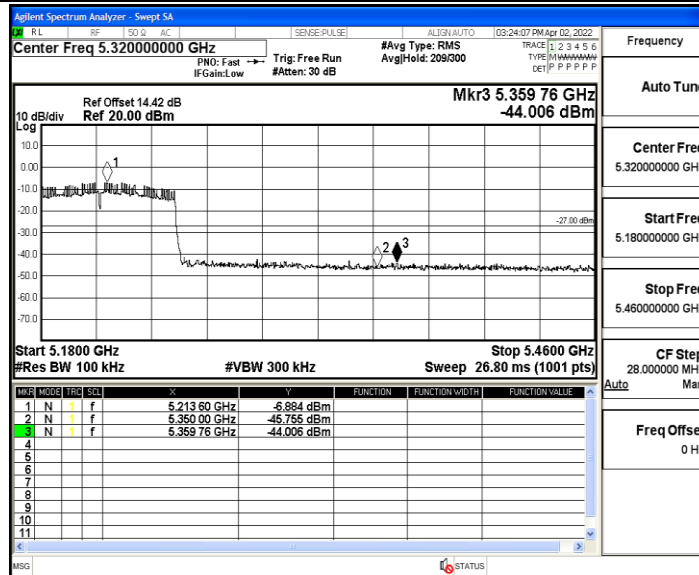
11AC80MIMO_Ant1_Low_5210



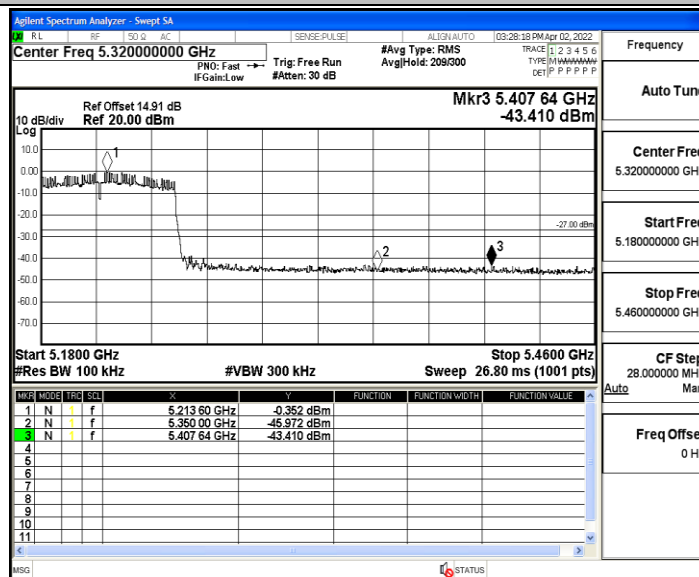
11AC80MIMO_Ant2_Low_5210



11AC80MIMO_Ant1_High_5210



11AC80MIMO_Ant2_High_5210



Appendix E: Frequency Stability

Test Result

Ant1

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5180	20	132	5180.018474	5150 – 5250	PASS
5180	20	108	5179.981247	5150 – 5250	PASS
5180	50	120	5179.957600	5150 – 5250	PASS
5180	40	120	5180.090379	5150 – 5250	PASS
5180	30	120	5180.008749	5150 – 5250	PASS
5180	20	120	5179.985507	5150 – 5250	PASS
5180	10	120	5180.009118	5150 – 5250	PASS
5180	0	120	5179.933628	5150 – 5250	PASS
5180	-10	120	5180.023170	5150 – 5250	PASS
5180	-20	120	5180.017824	5150 – 5250	PASS
5180	-30	120	5180.080196	5150 – 5250	PASS

Ant2

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5180	20	132	5180.051180	5150 – 5250	PASS
5180	20	108	5180.073924	5150 – 5250	PASS
5180	50	120	5179.960114	5150 – 5250	PASS
5180	40	120	5179.929415	5150 – 5250	PASS
5180	30	120	5180.069228	5150 – 5250	PASS
5180	20	120	5180.083548	5150 – 5250	PASS
5180	10	120	5180.085256	5150 – 5250	PASS
5180	0	120	5180.071571	5150 – 5250	PASS
5180	-10	120	5179.949614	5150 – 5250	PASS
5180	-20	120	5180.095445	5150 – 5250	PASS
5180	-30	120	5180.029971	5150 – 5250	PASS

Ant1

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5200	20	132	5199.906690	5150 – 5250	PASS
5200	20	108	5200.085503	5150 – 5250	PASS
5200	50	120	5200.090171	5150 – 5250	PASS
5200	40	120	5200.016191	5150 – 5250	PASS
5200	30	120	5199.961758	5150 – 5250	PASS
5200	20	120	5200.080363	5150 – 5250	PASS
5200	10	120	5199.966385	5150 – 5250	PASS
5200	0	120	5200.048020	5150 – 5250	PASS
5200	-10	120	5200.077674	5150 – 5250	PASS
5200	-20	120	5199.904079	5150 – 5250	PASS
5200	-30	120	5199.937209	5150 – 5250	PASS

Ant2

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5200	20	132	5199.936205	5150 – 5250	PASS
5200	20	108	5200.051780	5150 – 5250	PASS
5200	50	120	5199.963072	5150 – 5250	PASS
5200	40	120	5199.935744	5150 – 5250	PASS
5200	30	120	5200.051765	5150 – 5250	PASS
5200	20	120	5200.014381	5150 – 5250	PASS
5200	10	120	5199.929902	5150 – 5250	PASS
5200	0	120	5200.089856	5150 – 5250	PASS
5200	-10	120	5199.911287	5150 – 5250	PASS
5200	-20	120	5200.079522	5150 – 5250	PASS
5200	-30	120	5199.927106	5150 – 5250	PASS

Ant1

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5240	20	132	5239.913108	5150 – 5250	PASS
5240	20	108	5239.963898	5150 – 5250	PASS
5240	50	120	5239.947635	5150 – 5250	PASS
5240	40	120	5239.932350	5150 – 5250	PASS
5240	30	120	5239.923261	5150 – 5250	PASS
5240	20	120	5240.060684	5150 – 5250	PASS
5240	10	120	5239.912821	5150 – 5250	PASS
5240	0	120	5240.034052	5150 – 5250	PASS
5240	-10	120	5239.952802	5150 – 5250	PASS
5240	-20	120	5240.046228	5150 – 5250	PASS
5240	-30	120	5240.093429	5150 – 5250	PASS

Ant2

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5240	20	132	5239.987904	5150 – 5250	PASS
5240	20	108	5239.978865	5150 – 5250	PASS
5240	50	120	5239.906198	5150 – 5250	PASS
5240	40	120	5239.979017	5150 – 5250	PASS
5240	30	120	5240.032868	5150 – 5250	PASS
5240	20	120	5240.058221	5150 – 5250	PASS
5240	10	120	5239.983012	5150 – 5250	PASS
5240	0	120	5239.949393	5150 – 5250	PASS
5240	-10	120	5239.910658	5150 – 5250	PASS
5240	-20	120	5239.924118	5150 – 5250	PASS
5240	-30	120	5240.084524	5150 – 5250	PASS

Ant1

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5190	20	132	5189.994825	5150 – 5250	PASS
5190	20	108	5190.066245	5150 – 5250	PASS
5190	50	120	5190.090278	5150 – 5250	PASS
5190	40	120	5189.942764	5150 – 5250	PASS
5190	30	120	5189.977739	5150 – 5250	PASS
5190	20	120	5190.061692	5150 – 5250	PASS
5190	10	120	5189.900814	5150 – 5250	PASS
5190	0	120	5189.951281	5150 – 5250	PASS
5190	-10	120	5189.983303	5150 – 5250	PASS
5190	-20	120	5190.046956	5150 – 5250	PASS
5190	-30	120	5189.979069	5150 – 5250	PASS

Ant2

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5190	20	132	5189.962470	5150 – 5250	PASS
5190	20	108	5190.007872	5150 – 5250	PASS
5190	50	120	5190.010276	5150 – 5250	PASS
5190	40	120	5190.020968	5150 – 5250	PASS
5190	30	120	5190.022096	5150 – 5250	PASS
5190	20	120	5190.074648	5150 – 5250	PASS
5190	10	120	5189.938666	5150 – 5250	PASS
5190	0	120	5189.914870	5150 – 5250	PASS
5190	-10	120	5190.033449	5150 – 5250	PASS
5190	-20	120	5189.970461	5150 – 5250	PASS
5190	-30	120	5189.910075	5150 – 5250	PASS

Ant1

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5230	20	132	5230.023290	5150 – 5250	PASS
5230	20	108	5229.987862	5150 – 5250	PASS
5230	50	120	5230.032083	5150 – 5250	PASS
5230	40	120	5229.986934	5150 – 5250	PASS
5230	30	120	5229.977680	5150 – 5250	PASS
5230	20	120	5229.925519	5150 – 5250	PASS
5230	10	120	5229.957973	5150 – 5250	PASS
5230	0	120	5229.982881	5150 – 5250	PASS
5230	-10	120	5229.943154	5150 – 5250	PASS
5230	-20	120	5229.927744	5150 – 5250	PASS
5230	-30	120	5229.954586	5150 – 5250	PASS

Ant2

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5230	20	132	5230.018407	5150 – 5250	PASS
5230	20	108	5230.004987	5150 – 5250	PASS
5230	50	120	5230.058661	5150 – 5250	PASS
5230	40	120	5229.980983	5150 – 5250	PASS
5230	30	120	5229.987094	5150 – 5250	PASS
5230	20	120	5230.053473	5150 – 5250	PASS
5230	10	120	5229.925120	5150 – 5250	PASS
5230	0	120	5229.913866	5150 – 5250	PASS
5230	-10	120	5229.962566	5150 – 5250	PASS
5230	-20	120	5230.053537	5150 – 5250	PASS
5230	-30	120	5230.037549	5150 – 5250	PASS

Ant1

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5210	20	132	5210.042884	5150 – 5250	PASS
5210	20	108	5209.910067	5150 – 5250	PASS
5210	50	120	5210.025488	5150 – 5250	PASS
5210	40	120	5210.098218	5150 – 5250	PASS
5210	30	120	5210.088683	5150 – 5250	PASS
5210	20	120	5210.068217	5150 – 5250	PASS
5210	10	120	5209.966225	5150 – 5250	PASS
5210	0	120	5210.034368	5150 – 5250	PASS
5210	-10	120	5209.954834	5150 – 5250	PASS
5210	-20	120	5210.028074	5150 – 5250	PASS
5210	-30	120	5209.956869	5150 – 5250	PASS

Ant2

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5210	20	132	5210.045115	5150 – 5250	PASS
5210	20	108	5209.941607	5150 – 5250	PASS
5210	50	120	5210.069957	5150 – 5250	PASS
5210	40	120	5209.963374	5150 – 5250	PASS
5210	30	120	5209.940676	5150 – 5250	PASS
5210	20	120	5210.081033	5150 – 5250	PASS
5210	10	120	5210.039135	5150 – 5250	PASS
5210	0	120	5210.001816	5150 – 5250	PASS
5210	-10	120	5209.930930	5150 – 5250	PASS
5210	-20	120	5209.985740	5150 – 5250	PASS
5210	-30	120	5209.935792	5150 – 5250	PASS

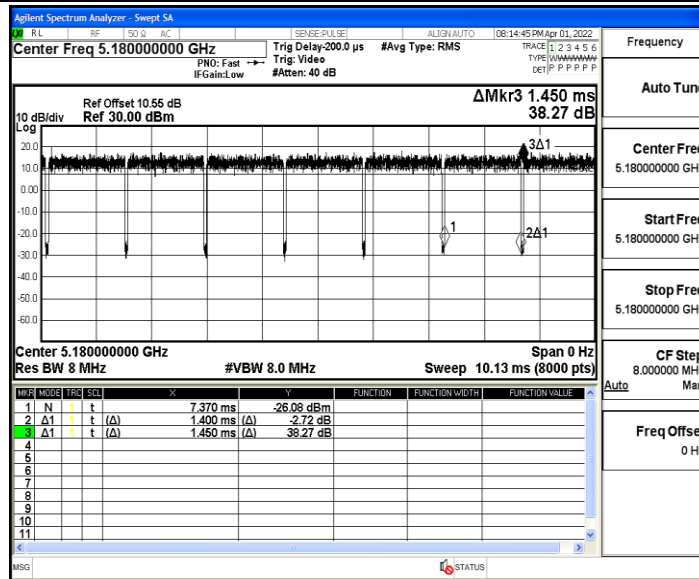
Appendix F: Duty Cycle

Test Result

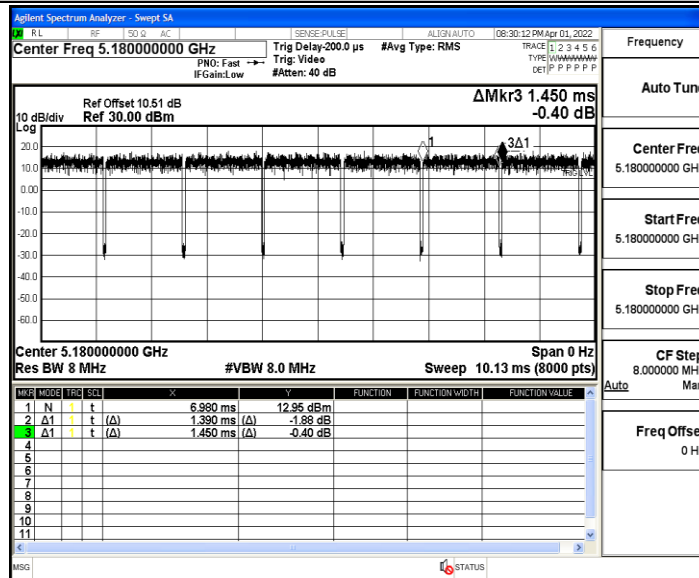
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T [KHz]
11A	Ant1	5180	1.40	1.45	96.55	0.71
	Ant2	5180	1.39	1.45	95.86	0.72
	Ant1	5200	1.39	1.44	96.53	0.72
	Ant2	5200	1.39	1.45	95.86	0.72
	Ant1	5240	1.39	1.45	95.86	0.72
	Ant2	5240	1.39	1.44	96.53	0.72
11N20MIMO	Ant1	5180	1.30	1.36	95.59	0.77
	Ant2	5180	1.30	1.35	96.30	0.77
	Ant1	5200	1.30	1.36	95.59	0.77
	Ant2	5200	1.30	1.35	96.30	0.77
	Ant1	5240	1.30	1.35	96.30	0.77
	Ant2	5240	1.30	1.35	96.30	0.77
11N40MIMO	Ant1	5190	0.65	0.70	92.86	1.54
	Ant2	5190	0.65	0.70	92.86	1.54
	Ant1	5230	0.65	0.71	91.55	1.54
	Ant2	5230	0.65	0.70	92.86	1.54
11AC20MIMO	Ant1	5180	1.31	1.37	95.62	0.76
	Ant2	5180	1.32	1.37	96.35	0.76
	Ant1	5200	1.31	1.36	96.32	0.76
	Ant2	5200	1.31	1.37	95.62	0.76
	Ant1	5240	1.31	1.37	95.62	0.76
	Ant2	5240	1.31	1.37	95.62	0.76
11AC40MIMO	Ant1	5190	0.65	0.70	92.86	1.54
	Ant2	5190	0.65	0.70	92.86	1.54
	Ant1	5230	0.65	0.71	91.55	1.54
	Ant2	5230	0.65	0.71	91.55	1.54
11AC80MIMO	Ant1	5210	0.32	0.38	84.21	3.13
	Ant2	5210	0.32	0.37	86.49	3.13

Test Graphs

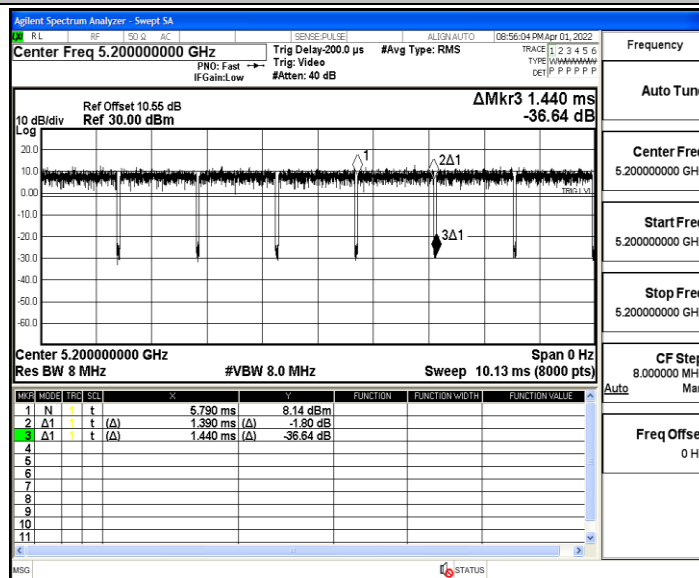
11A_Ant1_5180



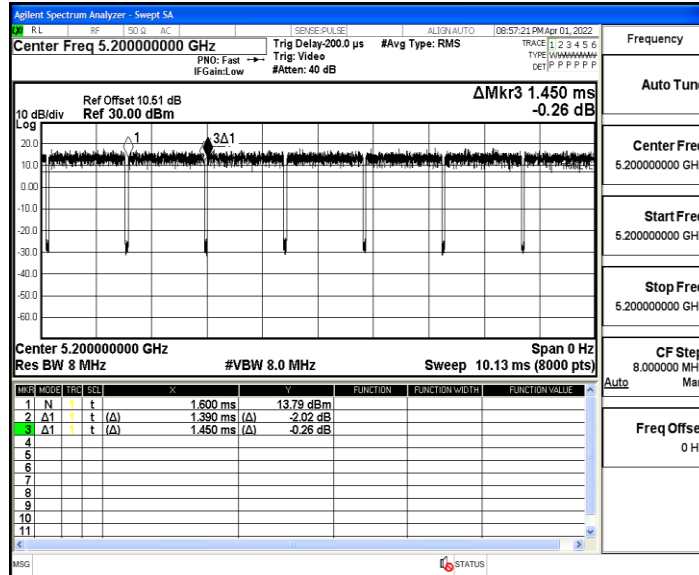
11A_Ant2_5180



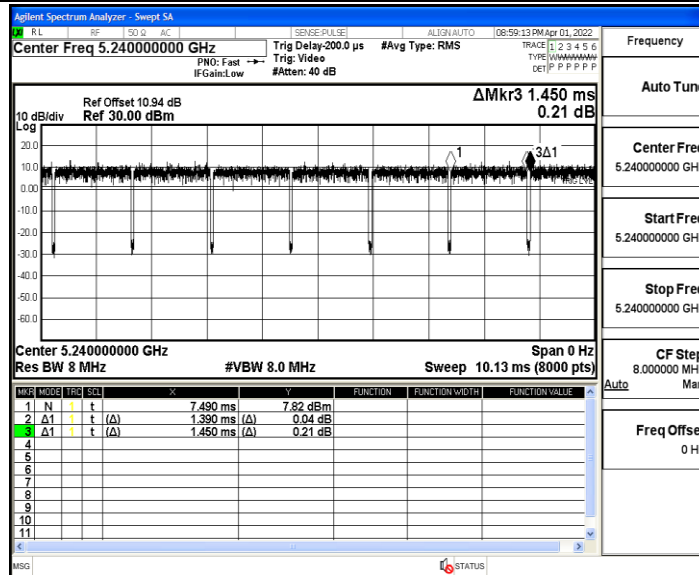
11A_Ant1_5200



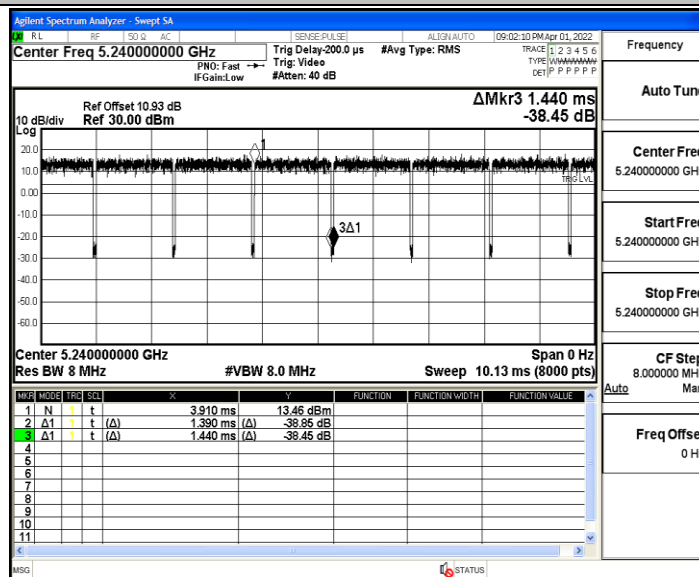
11A_Ant2_5200



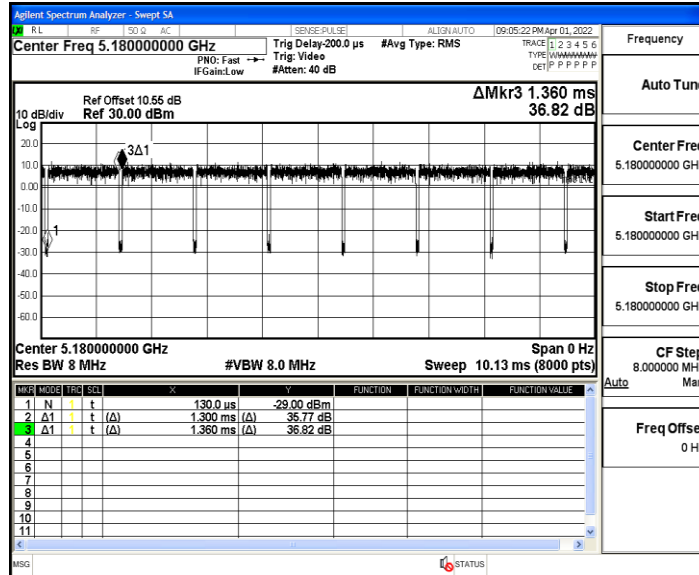
11A_Ant1_5240



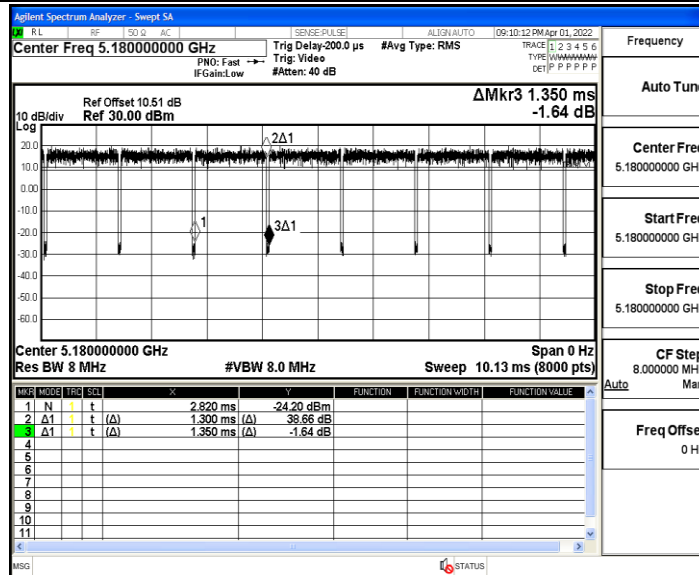
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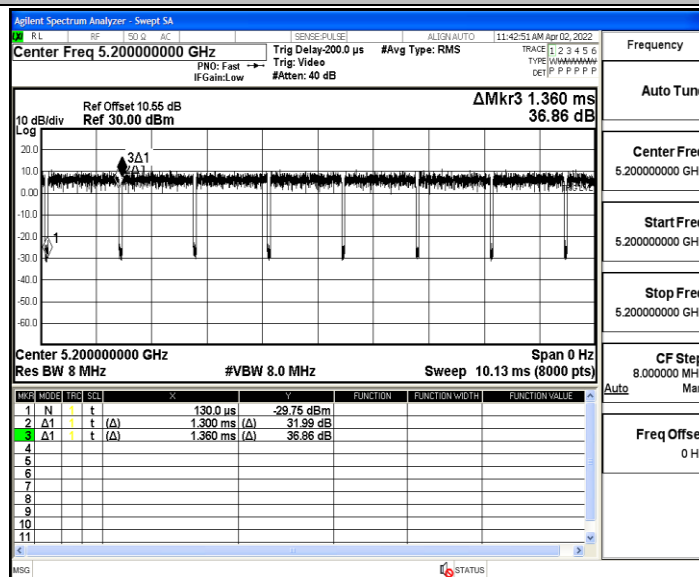
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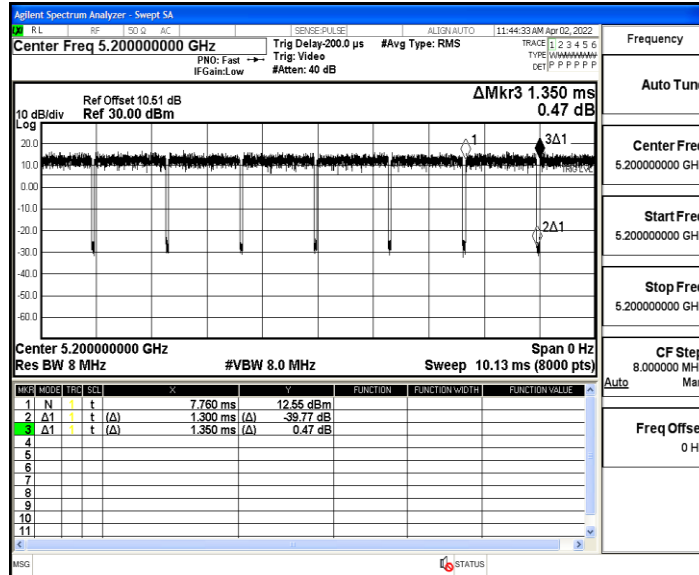
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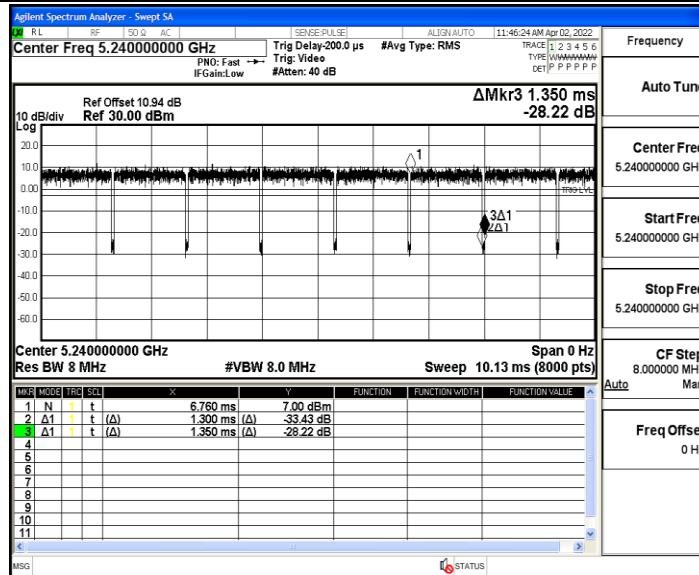
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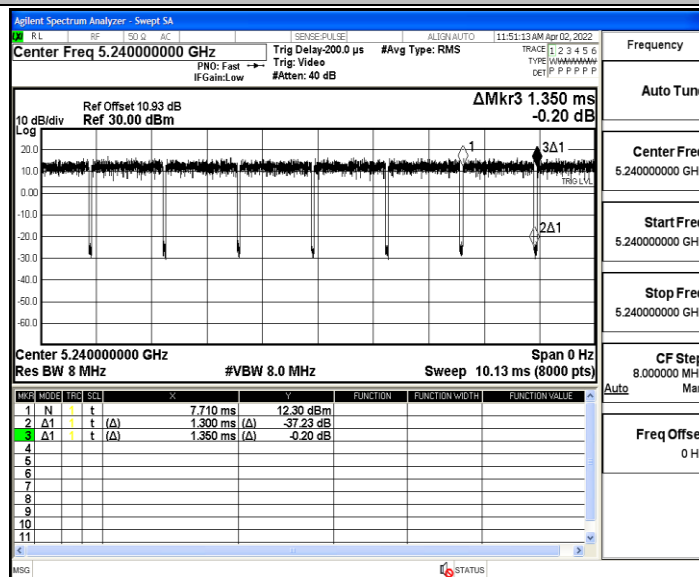
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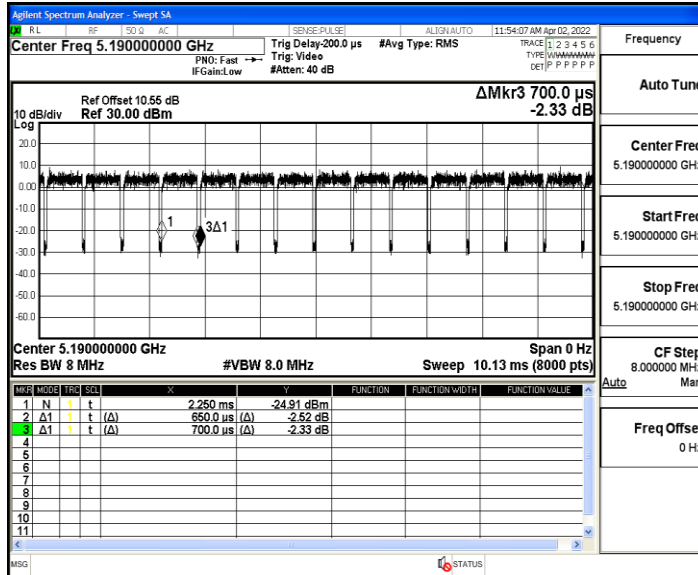
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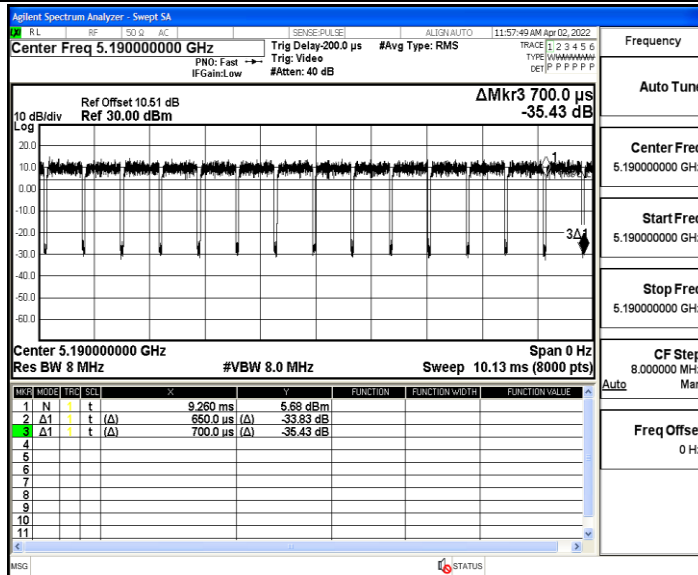
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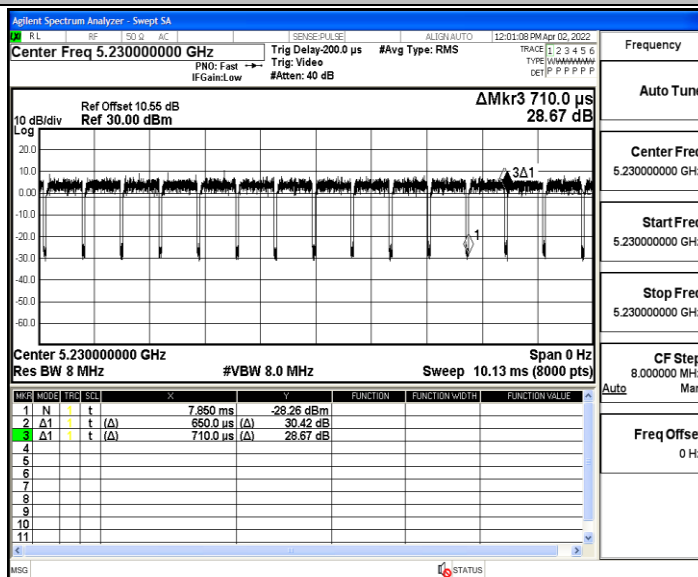
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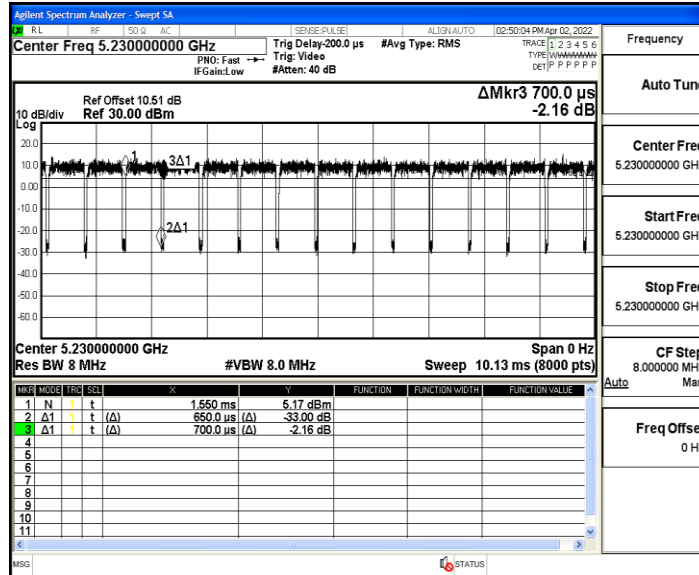
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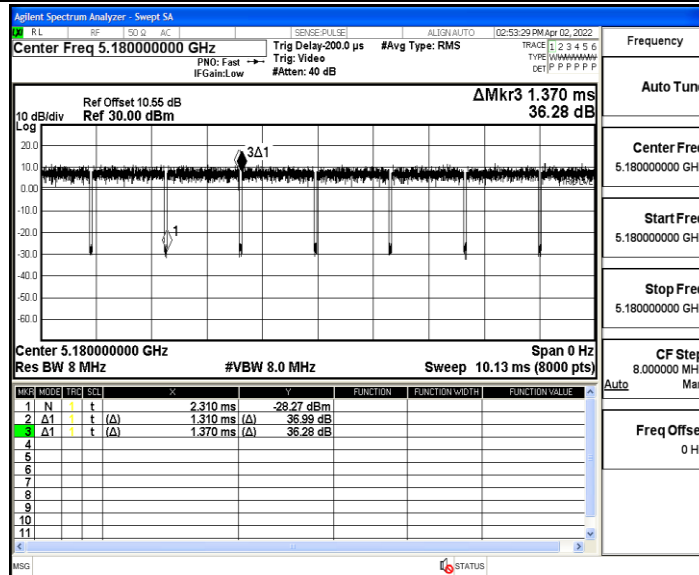
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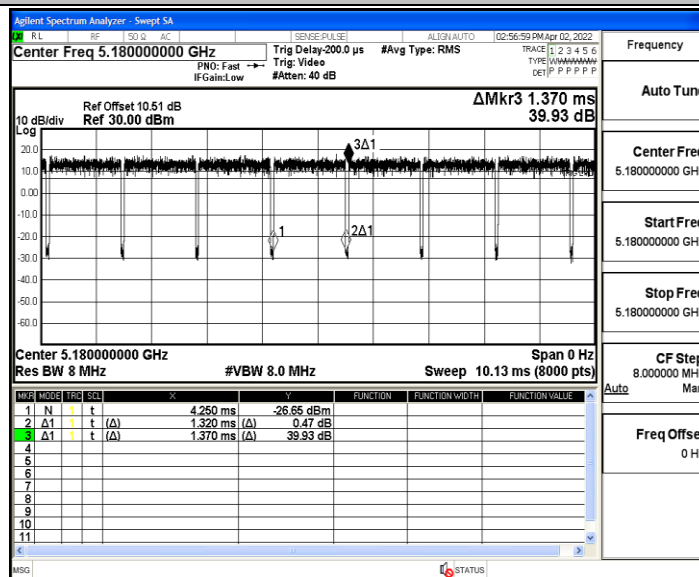
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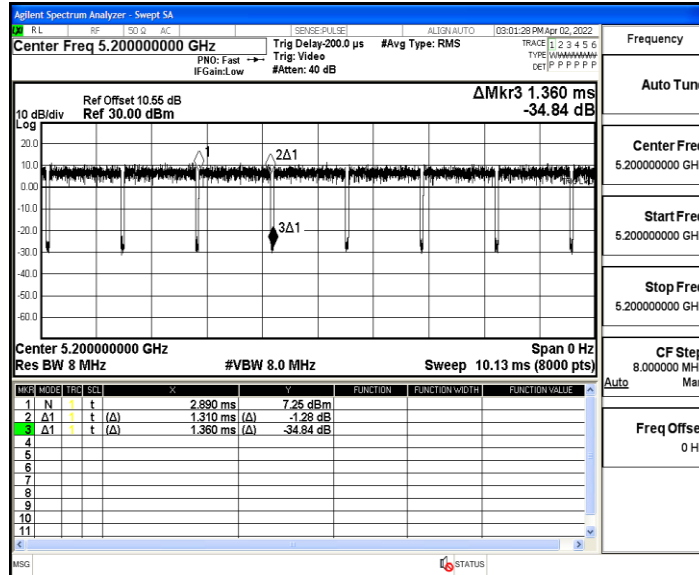
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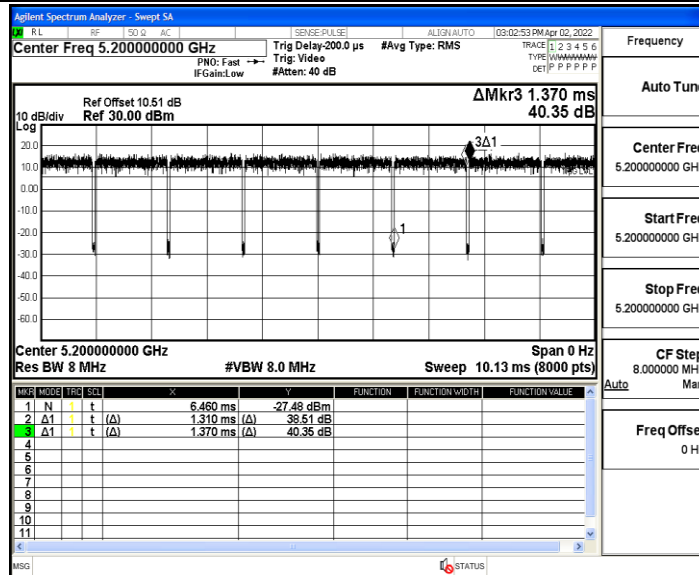
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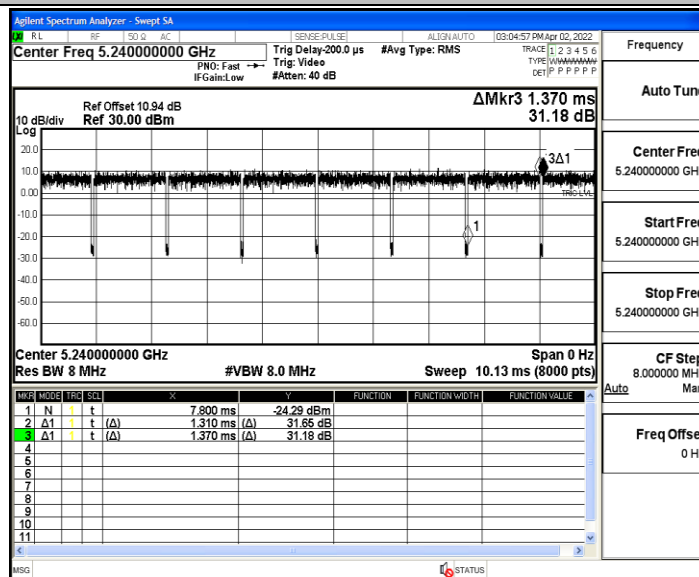
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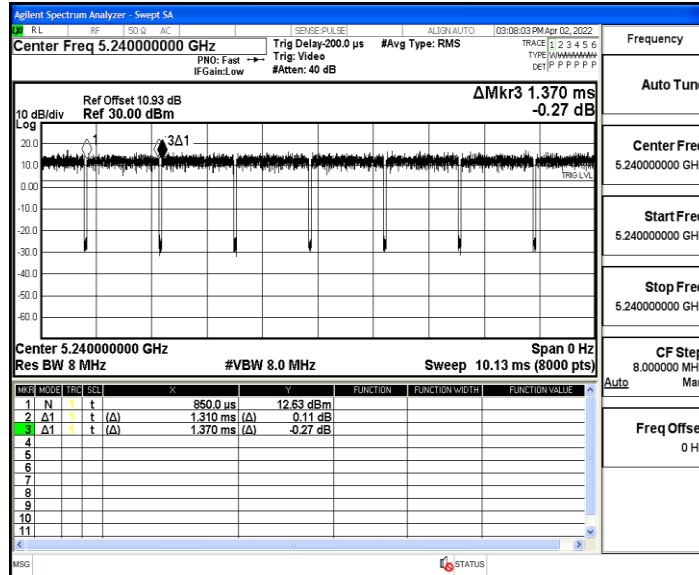
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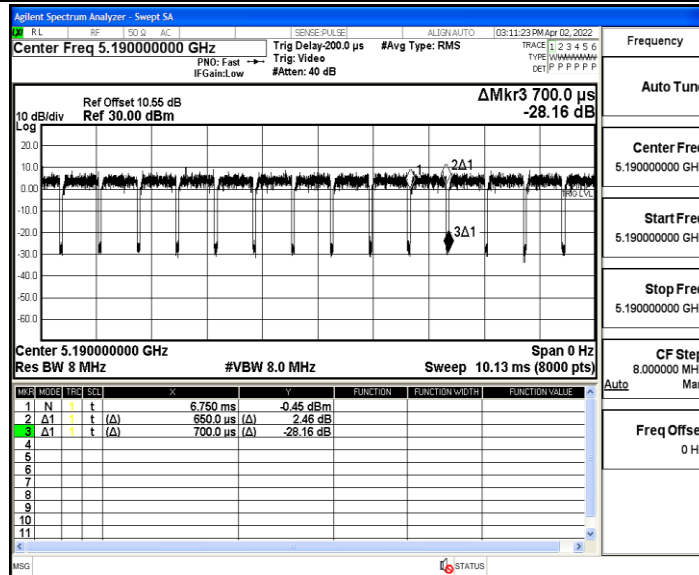
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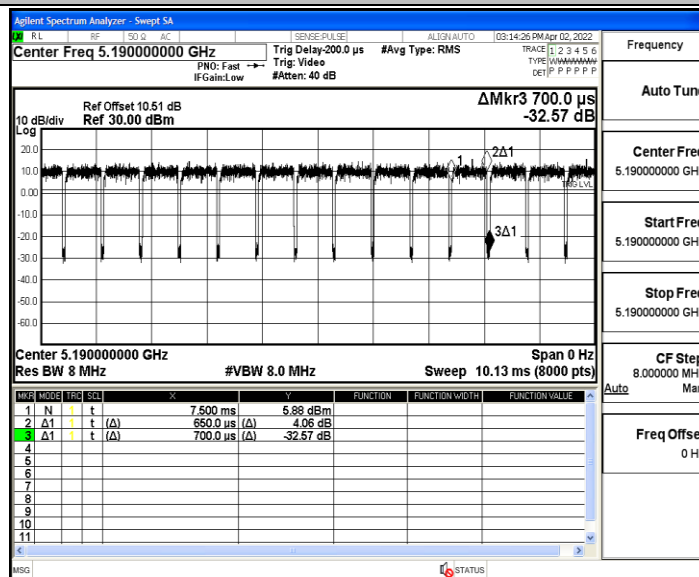
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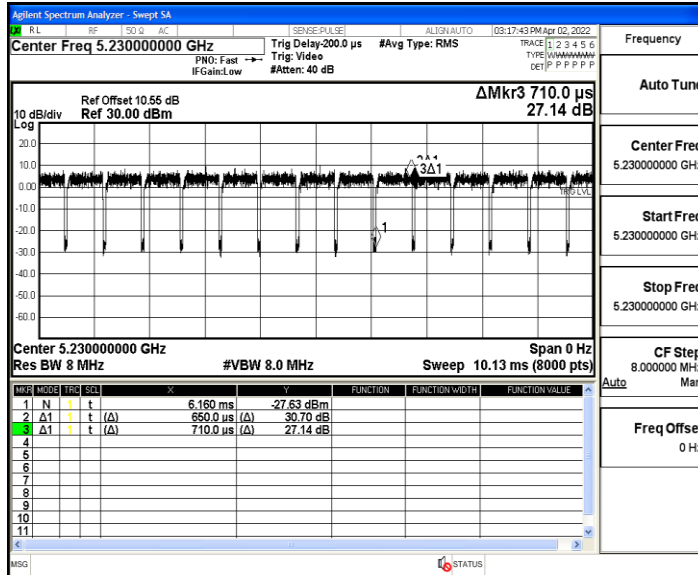
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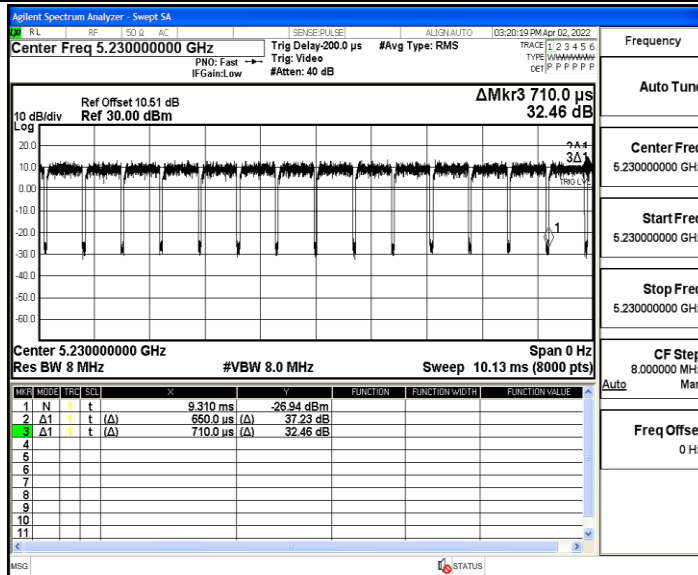
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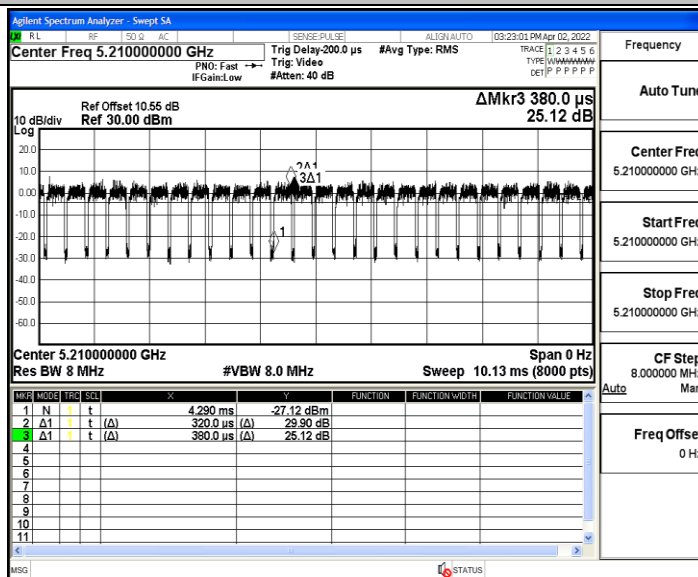
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11AC40MIMO_Ant2_5230



11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210

