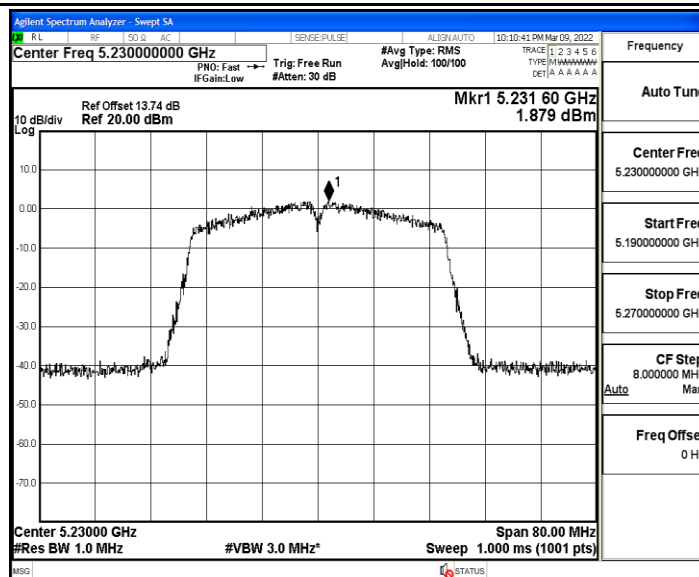
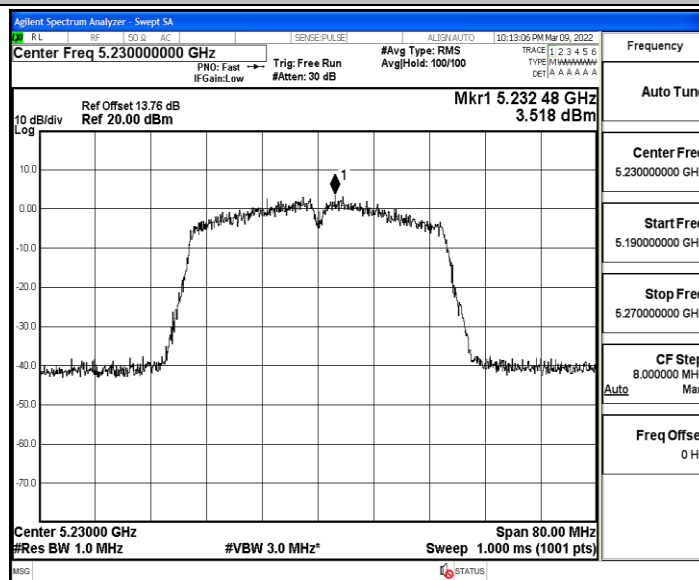
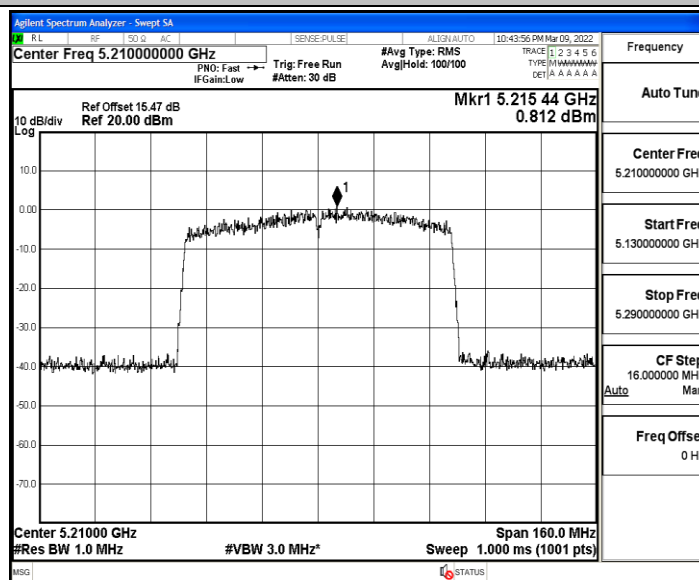




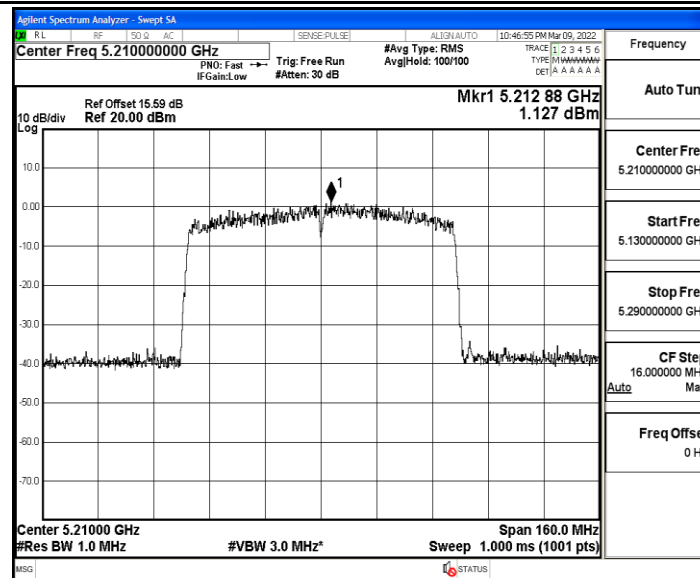
11AC40MIMO_Ant2_5230



11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210



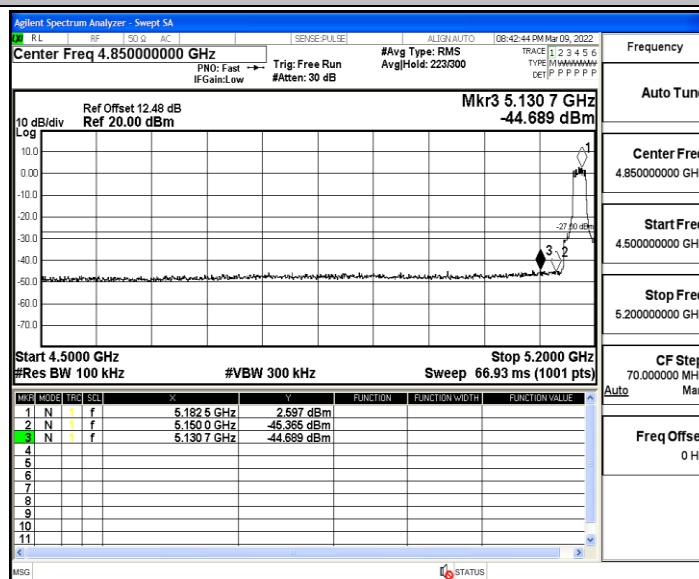
Appendix D: Band edge measurements

Test Result

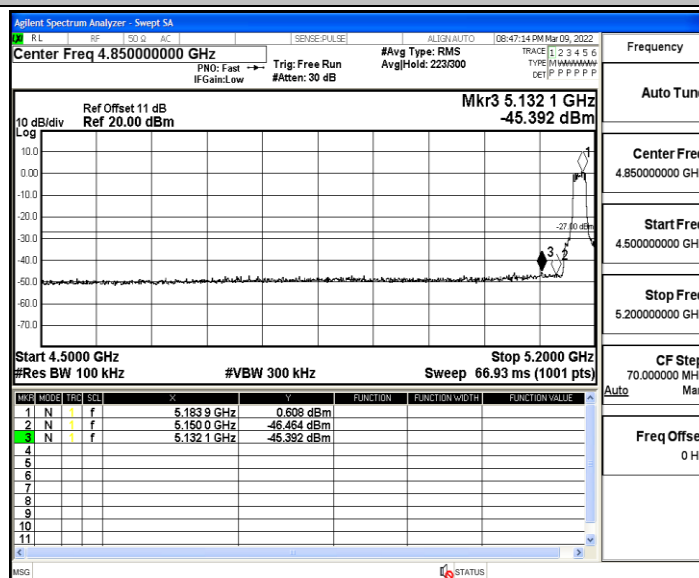
TestMode	Antenna	ChName	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-44.69	≤ -27	PASS
	Ant2	Low	5180	-45.39	≤ -27	PASS
	Ant1	High	5240	-44.22	≤ -27	PASS
	Ant2	High	5240	-46.28	≤ -27	PASS
11N20MIMO	Ant1	Low	5180	-44.76	≤ -27	PASS
	Ant2	Low	5180	-46.61	≤ -27	PASS
	Ant1	High	5240	-45.12	≤ -27	PASS
	Ant2	High	5240	-45.74	≤ -27	PASS
11N40MIMO	Ant1	Low	5190	-44.8	≤ -27	PASS
	Ant2	Low	5190	-45.97	≤ -27	PASS
	Ant1	High	5230	-44.9	≤ -27	PASS
	Ant2	High	5230	-46.99	≤ -27	PASS
11AC20MIMO	Ant1	Low	5180	-45.21	≤ -27	PASS
	Ant2	Low	5180	-46.84	≤ -27	PASS
	Ant1	High	5240	-45.45	≤ -27	PASS
	Ant2	High	5240	-46.15	≤ -27	PASS
11AC40MIMO	Ant1	Low	5190	-45.74	≤ -27	PASS
	Ant2	Low	5190	-46.84	≤ -27	PASS
	Ant1	High	5230	-44.74	≤ -27	PASS
	Ant2	High	5230	-47.13	≤ -27	PASS
11AC80MIMO	Ant1	Low	5210	-45.37	≤ -27	PASS
	Ant2	Low	5210	-46.54	≤ -27	PASS
	Ant1	High	5210	-45.94	≤ -27	PASS
	Ant2	High	5210	-47.1	≤ -27	PASS

Test Graphs

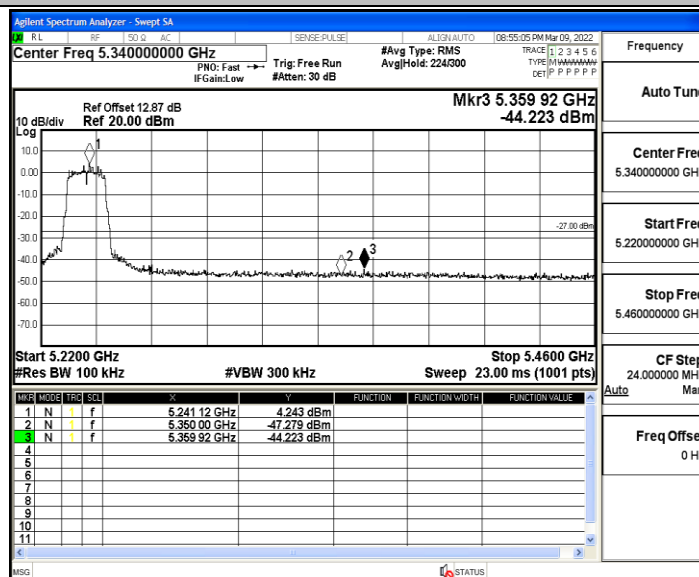
11A_Ant1_Low_5180



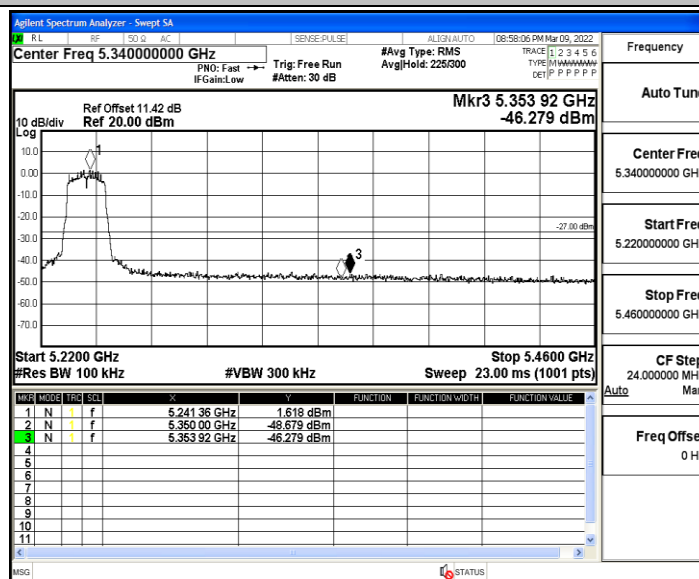
11A_Ant2_Low_5180



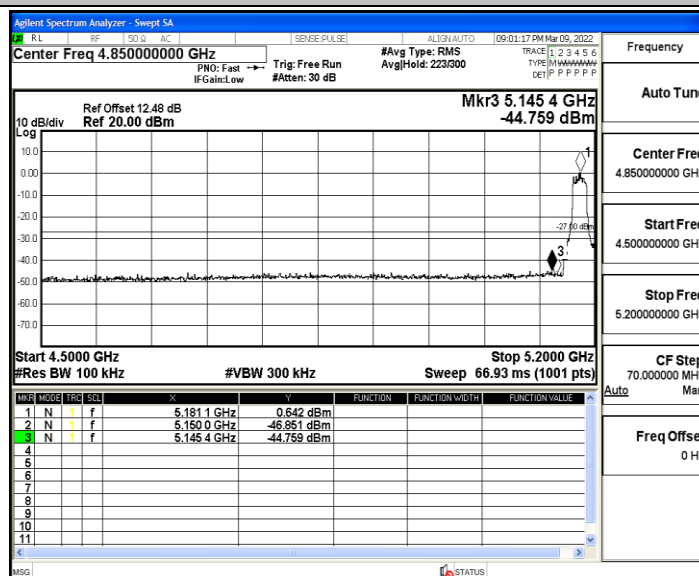
11A_Ant1_High_5240



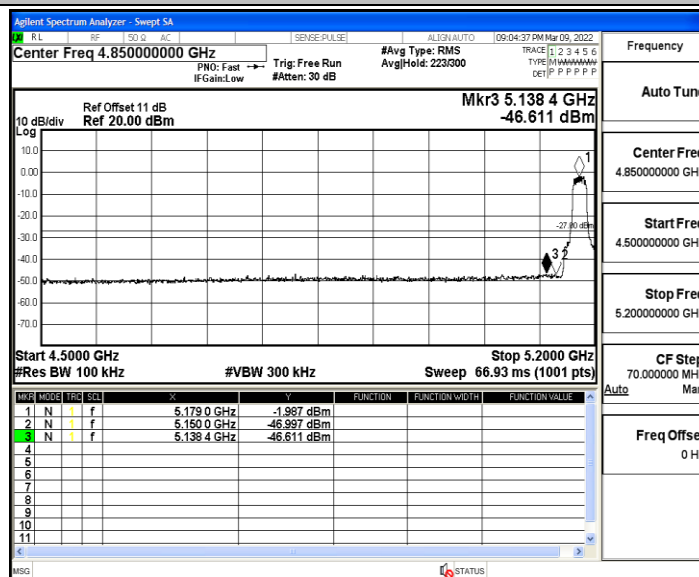
11A_Ant2_High_5240



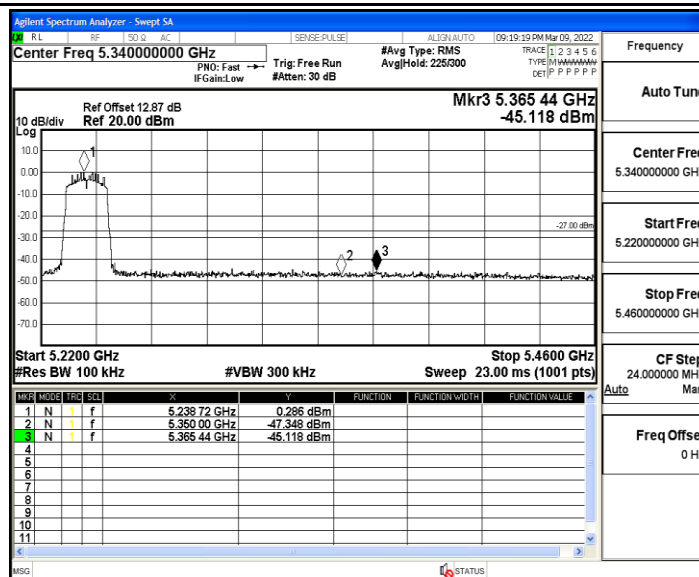
11N20MIMO_Ant1_Low_5180



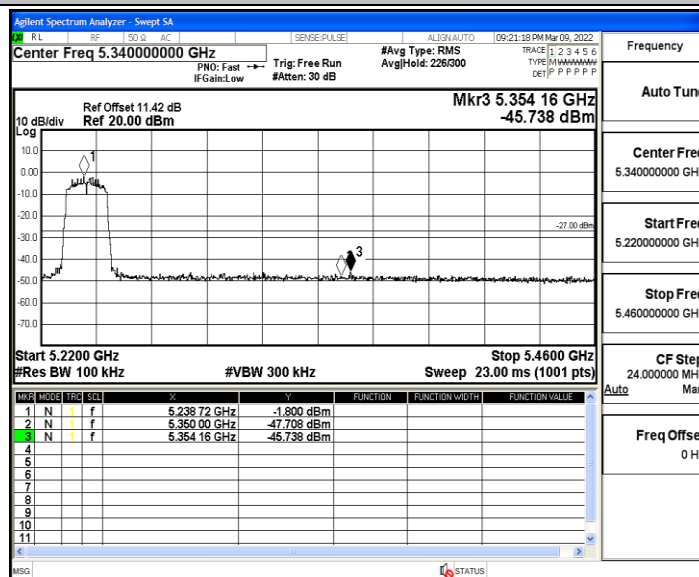
11N20MIMO_Ant2_Low_5180



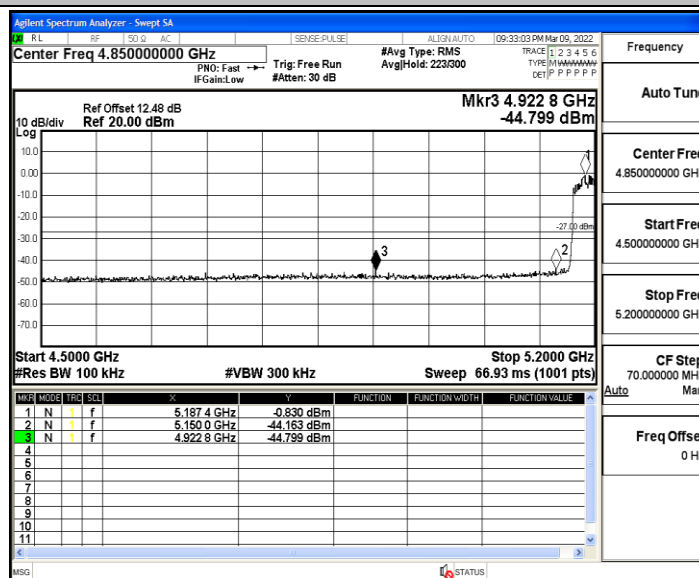
11N20MIMO_Ant1_High_5240



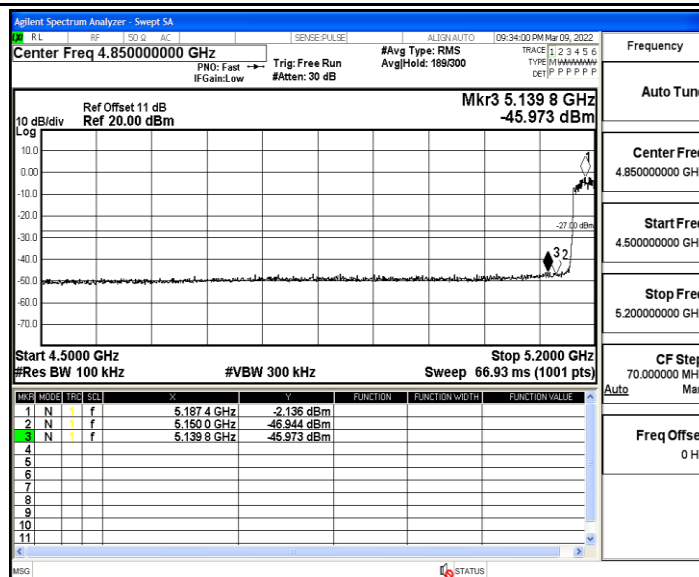
11N20MIMO_Ant2_High_5240



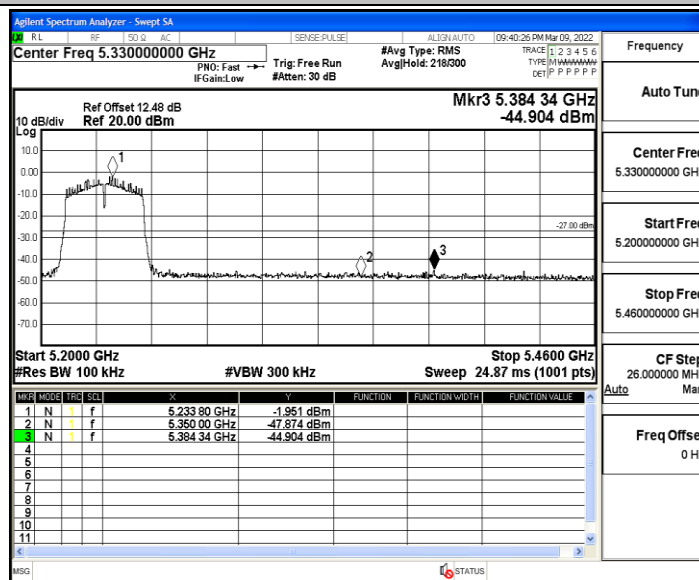
11N40MIMO_Ant1_Low_5190



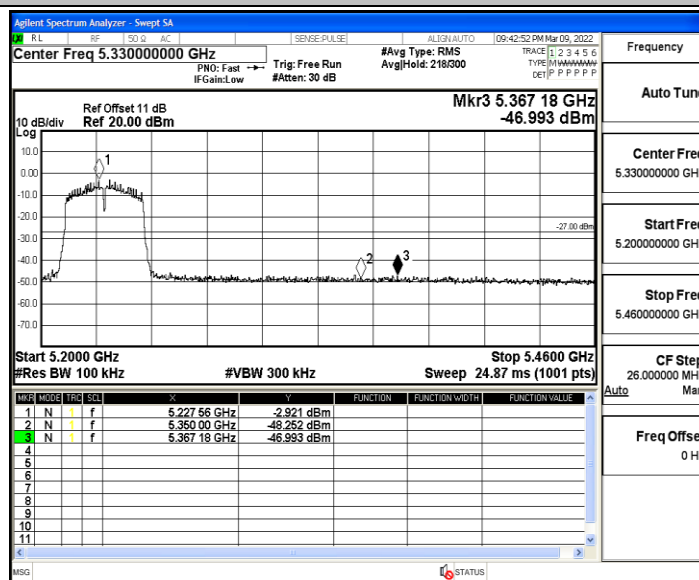
11N40MIMO_Ant2_Low_5190



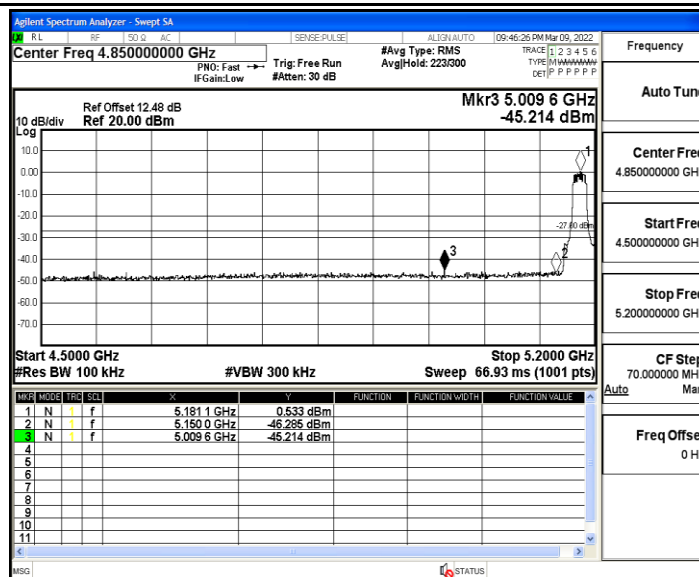
11N40MIMO_Ant1_High_5230



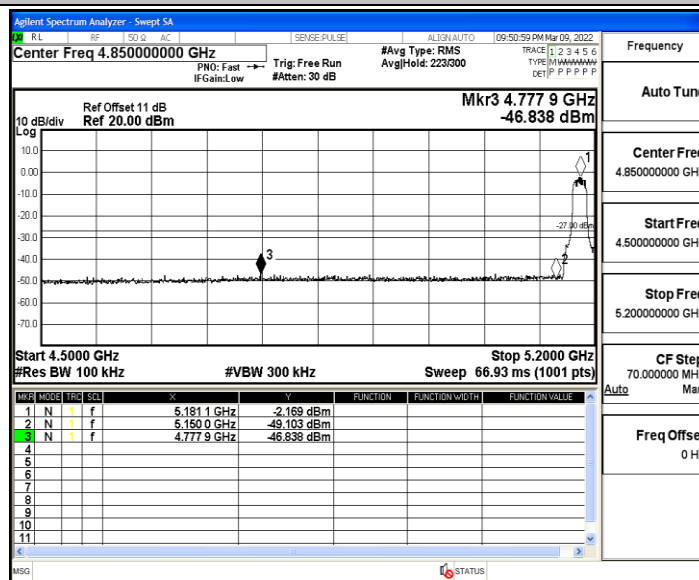
11N40MIMO_Ant2_High_5230



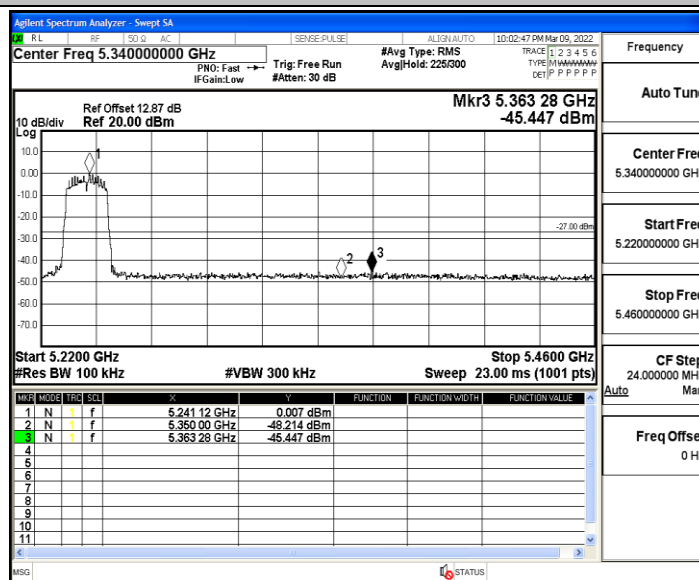
11AC20MIMO_Ant1_Low_5180



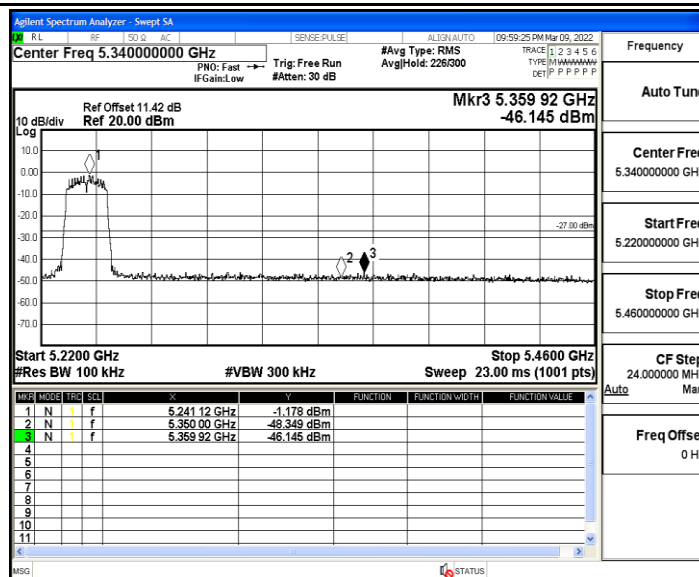
11AC20MIMO_Ant2_Low_5180



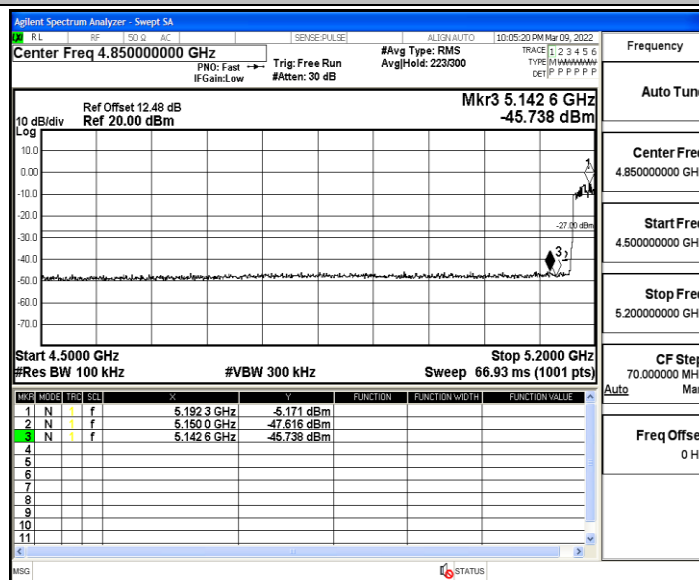
11AC20MIMO_Ant1_High_5240



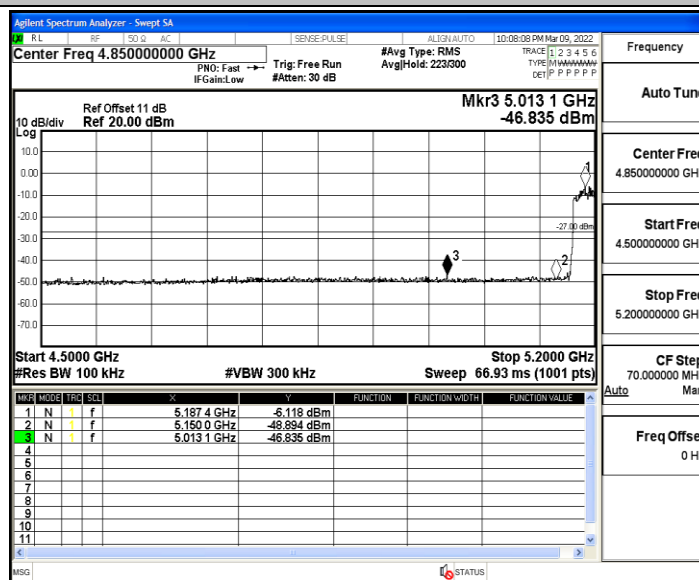
11AC20MIMO_Ant2_High_5240



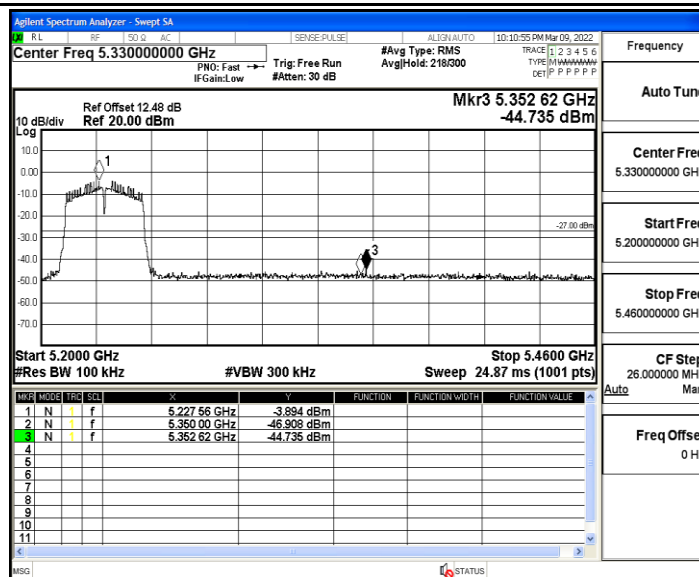
11AC40MIMO_Ant1_Low_5190



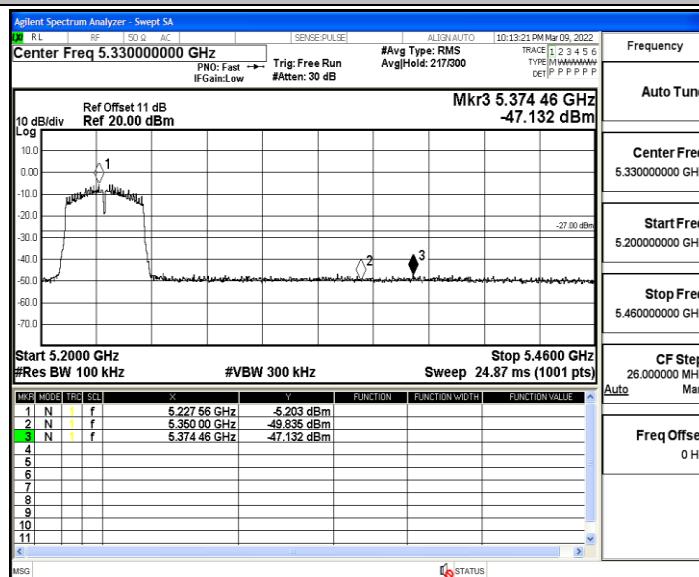
11AC40MIMO_Ant2_Low_5190



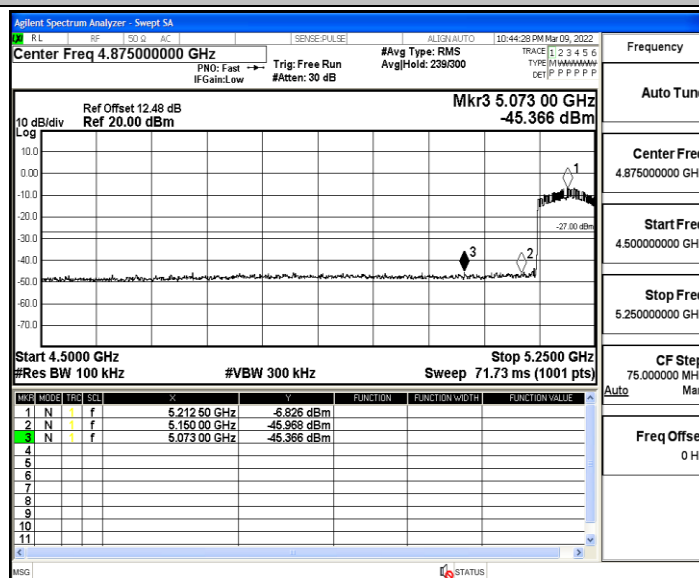
11AC40MIMO_Ant1_High_5230



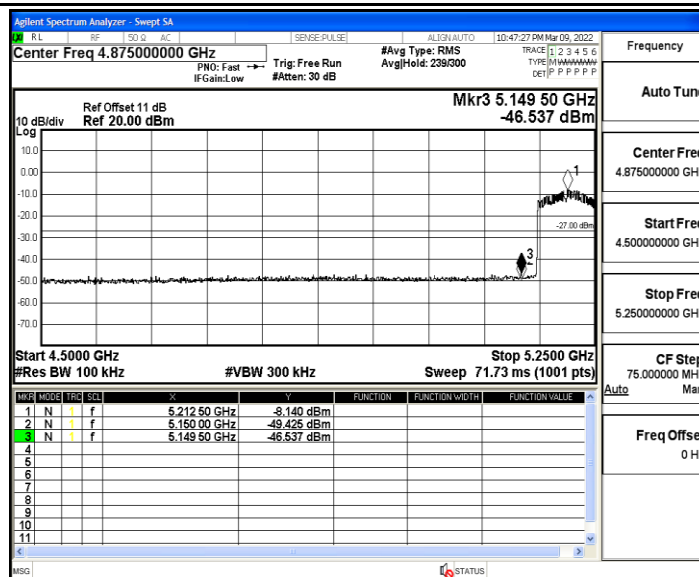
11AC40MIMO_Ant2_High_5230



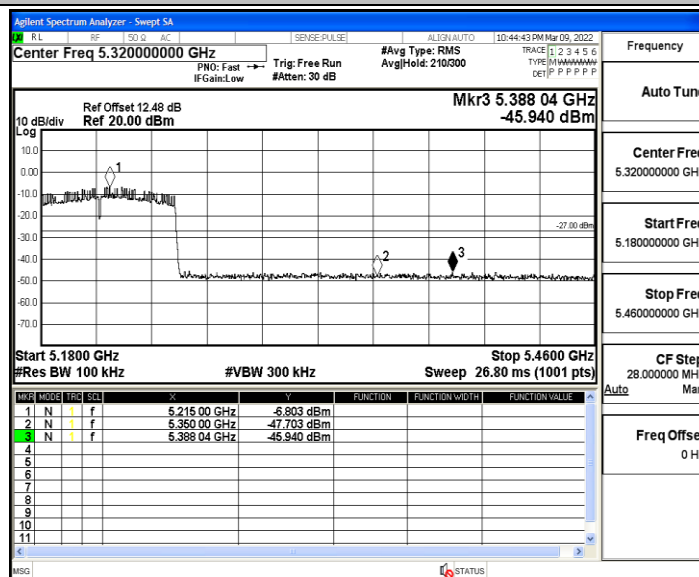
11AC80MIMO_Ant1_Low_5210



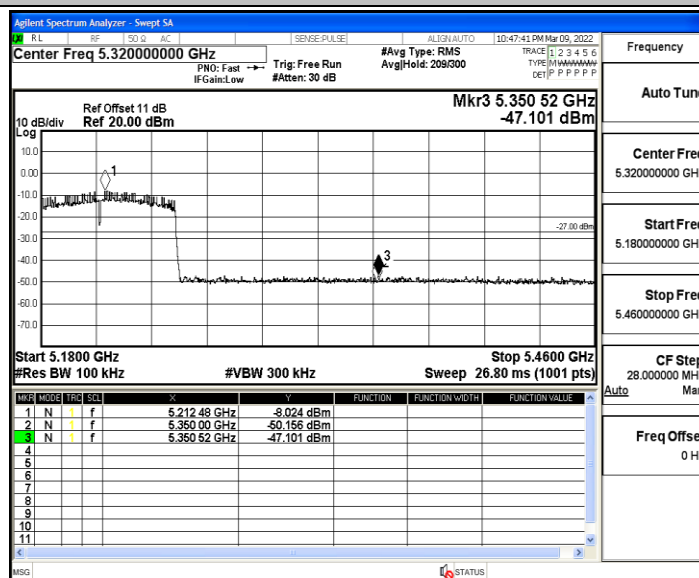
11AC80MIMO_Ant2_Low_5210



11AC80MIMO_Ant1_High_5210



11AC80MIMO_Ant2_High_5210



Appendix E: Frequency Stability

Test Result

Ant1

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5180	20	132	5180.038761	5150 – 5250	PASS
5180	20	108	5179.947018	5150 – 5250	PASS
5180	50	120	5180.028032	5150 – 5250	PASS
5180	40	120	5180.065392	5150 – 5250	PASS
5180	30	120	5180.058657	5150 – 5250	PASS
5180	20	120	5179.916658	5150 – 5250	PASS
5180	10	120	5180.044829	5150 – 5250	PASS
5180	0	120	5180.046864	5150 – 5250	PASS
5180	-10	120	5180.005970	5150 – 5250	PASS
5180	-20	120	5180.045184	5150 – 5250	PASS
5180	-30	120	5180.077203	5150 – 5250	PASS

Ant2

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5180	20	132	5179.921900	5150 – 5250	PASS
5180	20	108	5180.083034	5150 – 5250	PASS
5180	50	120	5180.084579	5150 – 5250	PASS
5180	40	120	5179.973705	5150 – 5250	PASS
5180	30	120	5179.982858	5150 – 5250	PASS
5180	20	120	5180.079578	5150 – 5250	PASS
5180	10	120	5180.083729	5150 – 5250	PASS
5180	0	120	5180.017225	5150 – 5250	PASS
5180	-10	120	5180.049368	5150 – 5250	PASS
5180	-20	120	5180.092264	5150 – 5250	PASS
5180	-30	120	5179.982618	5150 – 5250	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5200	20	132	5199.951179	5150 – 5250	PASS
5200	20	108	5200.045173	5150 – 5250	PASS
5200	50	120	5199.933951	5150 – 5250	PASS
5200	40	120	5200.006070	5150 – 5250	PASS
5200	30	120	5199.915211	5150 – 5250	PASS
5200	20	120	5200.026466	5150 – 5250	PASS
5200	10	120	5199.975087	5150 – 5250	PASS
5200	0	120	5199.994145	5150 – 5250	PASS
5200	-10	120	5199.999288	5150 – 5250	PASS
5200	-20	120	5199.989317	5150 – 5250	PASS
5200	-30	120	5199.996602	5150 – 5250	PASS

Ant2

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5200	20	132	5200.026143	5150 – 5250	PASS
5200	20	108	5199.993047	5150 – 5250	PASS
5200	50	120	5200.056216	5150 – 5250	PASS
5200	40	120	5200.060857	5150 – 5250	PASS
5200	30	120	5199.907026	5150 – 5250	PASS
5200	20	120	5200.015356	5150 – 5250	PASS
5200	10	120	5199.955251	5150 – 5250	PASS
5200	0	120	5199.909684	5150 – 5250	PASS
5200	-10	120	5200.079342	5150 – 5250	PASS
5200	-20	120	5199.916921	5150 – 5250	PASS
5200	-30	120	5200.069090	5150 – 5250	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5240	20	132	5240.009002	5150 – 5250	PASS
5240	20	108	5239.923872	5150 – 5250	PASS
5240	50	120	5239.975841	5150 – 5250	PASS
5240	40	120	5240.091656	5150 – 5250	PASS
5240	30	120	5240.077480	5150 – 5250	PASS
5240	20	120	5239.945055	5150 – 5250	PASS
5240	10	120	5240.013525	5150 – 5250	PASS
5240	0	120	5240.097679	5150 – 5250	PASS
5240	-10	120	5239.918964	5150 – 5250	PASS
5240	-20	120	5239.935050	5150 – 5250	PASS
5240	-30	120	5239.998525	5150 – 5250	PASS

Ant2

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5240	20	132	5240.015042	5150 – 5250	PASS
5240	20	108	5240.096569	5150 – 5250	PASS
5240	50	120	5240.023634	5150 – 5250	PASS
5240	40	120	5240.002698	5150 – 5250	PASS
5240	30	120	5240.041251	5150 – 5250	PASS
5240	20	120	5239.932346	5150 – 5250	PASS
5240	10	120	5240.039278	5150 – 5250	PASS
5240	0	120	5240.095623	5150 – 5250	PASS
5240	-10	120	5239.987111	5150 – 5250	PASS
5240	-20	120	5239.973295	5150 – 5250	PASS
5240	-30	120	5240.063060	5150 – 5250	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5190	20	132	5189.932460	5150 – 5250	PASS
5190	20	108	5189.984234	5150 – 5250	PASS
5190	50	120	5189.969437	5150 – 5250	PASS
5190	40	120	5190.062528	5150 – 5250	PASS
5190	30	120	5189.960950	5150 – 5250	PASS
5190	20	120	5190.089142	5150 – 5250	PASS
5190	10	120	5190.037950	5150 – 5250	PASS
5190	0	120	5190.095965	5150 – 5250	PASS
5190	-10	120	5189.937288	5150 – 5250	PASS
5190	-20	120	5189.951026	5150 – 5250	PASS
5190	-30	120	5189.964020	5150 – 5250	PASS

Ant2

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5190	20	132	5190.064348	5150 – 5250	PASS
5190	20	108	5189.993472	5150 – 5250	PASS
5190	50	120	5190.051191	5150 – 5250	PASS
5190	40	120	5190.070519	5150 – 5250	PASS
5190	30	120	5190.075719	5150 – 5250	PASS
5190	20	120	5189.947010	5150 – 5250	PASS
5190	10	120	5190.023645	5150 – 5250	PASS
5190	0	120	5189.920705	5150 – 5250	PASS
5190	-10	120	5189.968355	5150 – 5250	PASS
5190	-20	120	5189.913175	5150 – 5250	PASS
5190	-30	120	5190.011676	5150 – 5250	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5230	20	132	5230.047186	5150 – 5250	PASS
5230	20	108	5230.034898	5150 – 5250	PASS
5230	50	120	5229.907449	5150 – 5250	PASS
5230	40	120	5230.080818	5150 – 5250	PASS
5230	30	120	5230.031846	5150 – 5250	PASS
5230	20	120	5230.023877	5150 – 5250	PASS
5230	10	120	5230.002687	5150 – 5250	PASS
5230	0	120	5230.056044	5150 – 5250	PASS
5230	-10	120	5229.921143	5150 – 5250	PASS
5230	-20	120	5230.075873	5150 – 5250	PASS
5230	-30	120	5230.008220	5150 – 5250	PASS

Ant2

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5230	20	132	5229.978393	5150 – 5250	PASS
5230	20	108	5229.922206	5150 – 5250	PASS
5230	50	120	5229.920756	5150 – 5250	PASS
5230	40	120	5229.966490	5150 – 5250	PASS
5230	30	120	5229.986292	5150 – 5250	PASS
5230	20	120	5229.969348	5150 – 5250	PASS
5230	10	120	5229.978549	5150 – 5250	PASS
5230	0	120	5230.095556	5150 – 5250	PASS
5230	-10	120	5229.981115	5150 – 5250	PASS
5230	-20	120	5230.037525	5150 – 5250	PASS
5230	-30	120	5230.076837	5150 – 5250	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5210	20	132	5209.988077	5150 – 5250	PASS
5210	20	108	5209.978660	5150 – 5250	PASS
5210	50	120	5210.041724	5150 – 5250	PASS
5210	40	120	5210.087455	5150 – 5250	PASS
5210	30	120	5210.077491	5150 – 5250	PASS
5210	20	120	5209.987536	5150 – 5250	PASS
5210	10	120	5210.032519	5150 – 5250	PASS
5210	0	120	5209.961059	5150 – 5250	PASS
5210	-10	120	5210.027002	5150 – 5250	PASS
5210	-20	120	5209.958224	5150 – 5250	PASS
5210	-30	120	5210.074068	5150 – 5250	PASS

Ant2

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5210	20	132	5209.962093	5150 – 5250	PASS
5210	20	108	5210.081194	5150 – 5250	PASS
5210	50	120	5210.047116	5150 – 5250	PASS
5210	40	120	5210.011841	5150 – 5250	PASS
5210	30	120	5210.077073	5150 – 5250	PASS
5210	20	120	5210.009451	5150 – 5250	PASS
5210	10	120	5210.072373	5150 – 5250	PASS
5210	0	120	5210.086283	5150 – 5250	PASS
5210	-10	120	5210.057682	5150 – 5250	PASS
5210	-20	120	5210.039974	5150 – 5250	PASS
5210	-30	120	5210.062919	5150 – 5250	PASS

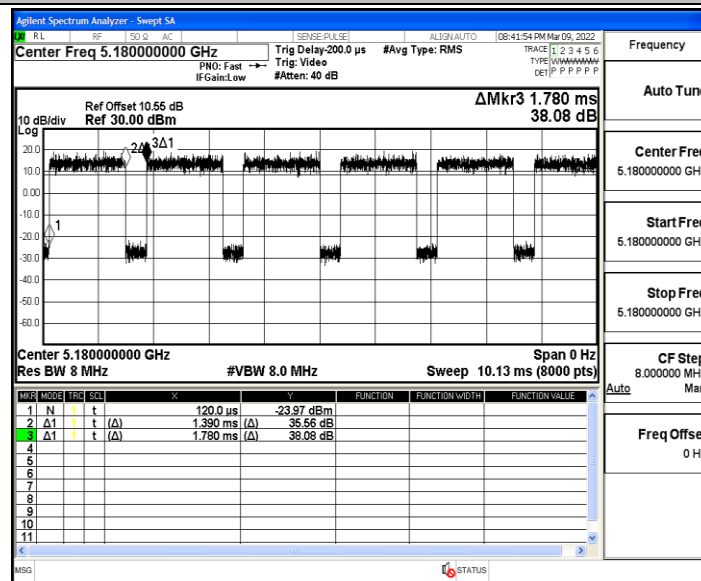
Appendix F: Duty Cycle

Test Result

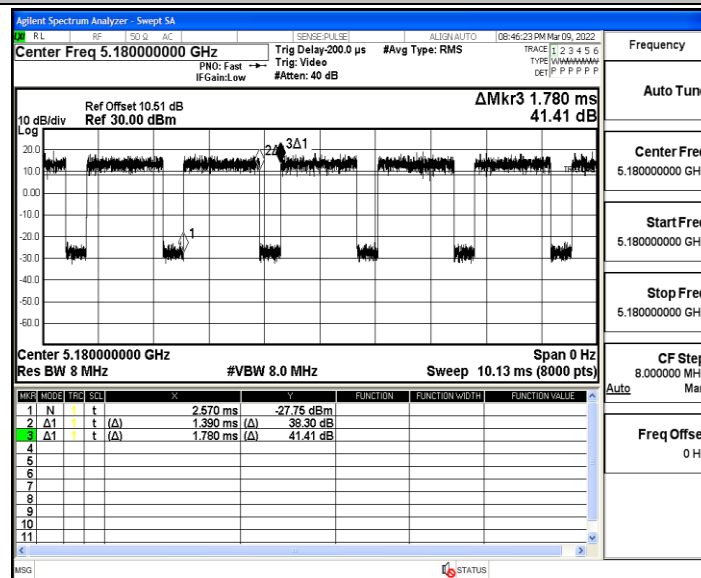
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T[kHz]
11A	Ant1	5180	1.39	1.78	78.09	0.72
	Ant2	5180	1.39	1.78	78.09	0.72
	Ant1	5200	1.39	1.78	78.09	0.72
	Ant2	5200	1.39	1.78	78.09	0.72
	Ant1	5240	1.40	1.77	79.10	0.71
	Ant2	5240	1.39	1.77	78.53	0.72
11N20MIMO	Ant1	5180	1.30	1.69	76.92	0.77
	Ant2	5180	1.30	1.69	76.92	0.77
	Ant1	5200	1.30	1.69	76.92	0.77
	Ant2	5200	1.30	1.69	76.92	0.77
	Ant1	5240	1.30	1.69	76.92	0.77
	Ant2	5240	1.30	1.67	77.84	0.77
11N40MIMO	Ant1	5190	0.65	1.04	62.50	1.54
	Ant2	5190	0.65	1.05	61.90	1.54
	Ant1	5230	0.64	1.04	61.54	1.56
	Ant2	5230	0.65	1.04	62.50	1.54
11AC20MIMO	Ant1	5180	0.68	1.07	63.55	1.47
	Ant2	5180	0.68	1.07	63.55	1.47
	Ant1	5200	0.68	1.08	62.96	1.47
	Ant2	5200	0.68	1.07	63.55	1.47
	Ant1	5240	0.67	1.07	62.62	1.49
	Ant2	5240	0.68	1.08	62.96	1.47
11AC40MIMO	Ant1	5190	0.35	0.74	47.30	2.86
	Ant2	5190	0.35	0.74	47.30	2.86
	Ant1	5230	0.35	0.73	47.95	2.86
	Ant2	5230	0.35	0.74	47.30	2.86
11AC80MIMO	Ant1	5210	0.19	0.59	32.20	5.26
	Ant2	5210	0.18	0.58	31.03	5.56

Test Graphs

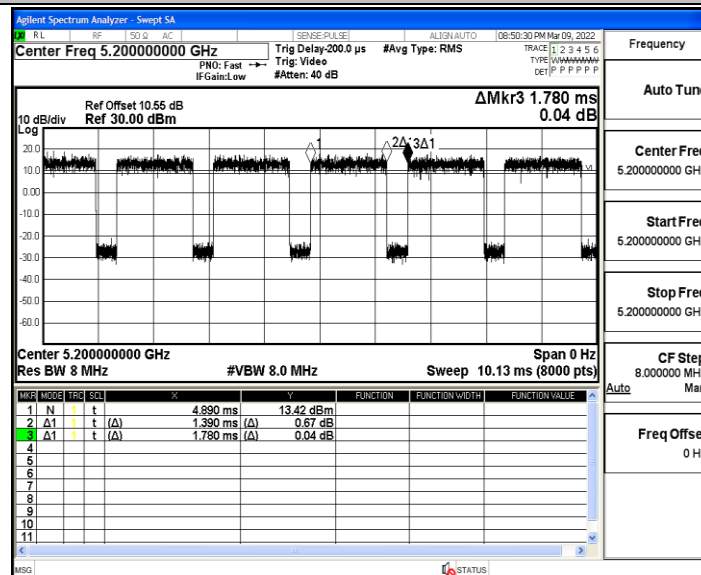
11A_Ant1_5180



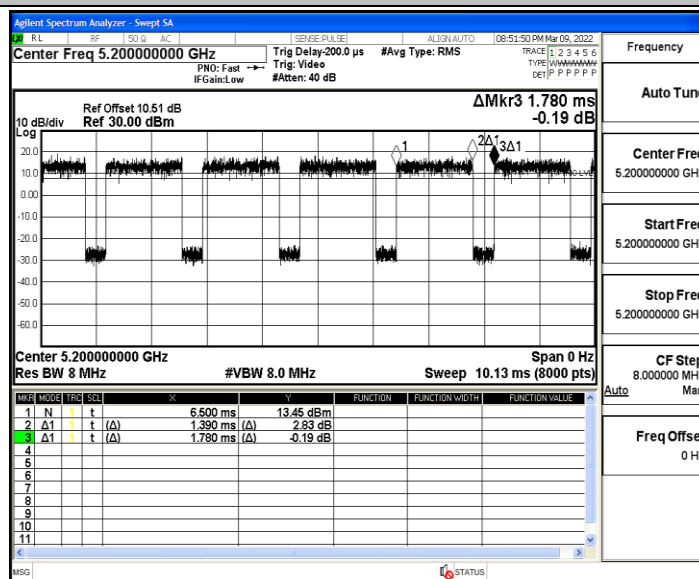
11A_Ant2_5180



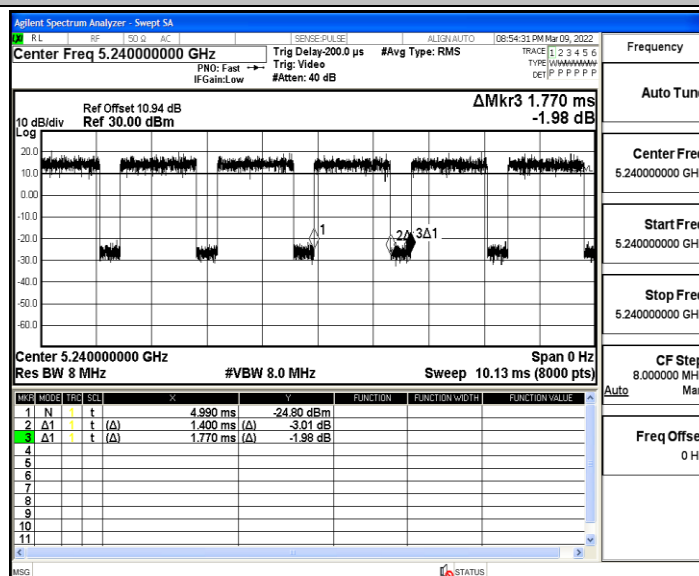
11A_Ant1_5200



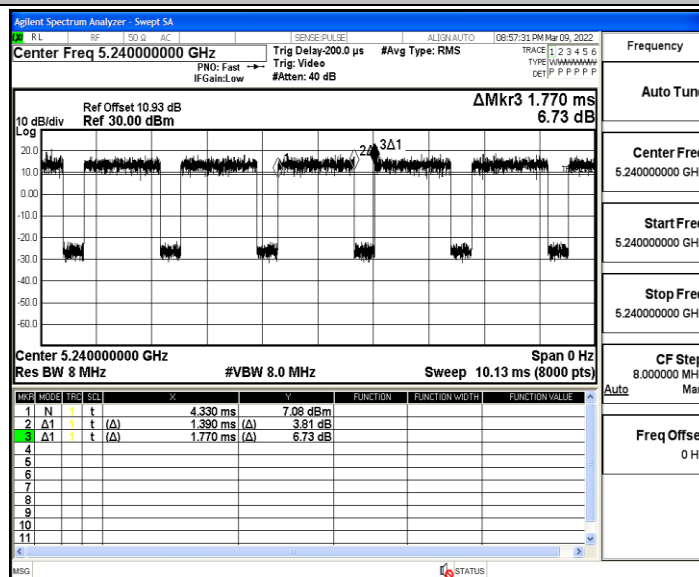
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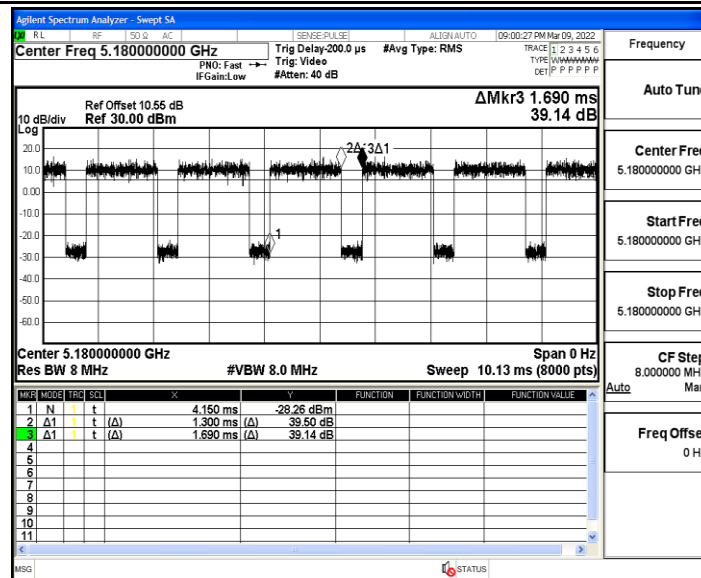
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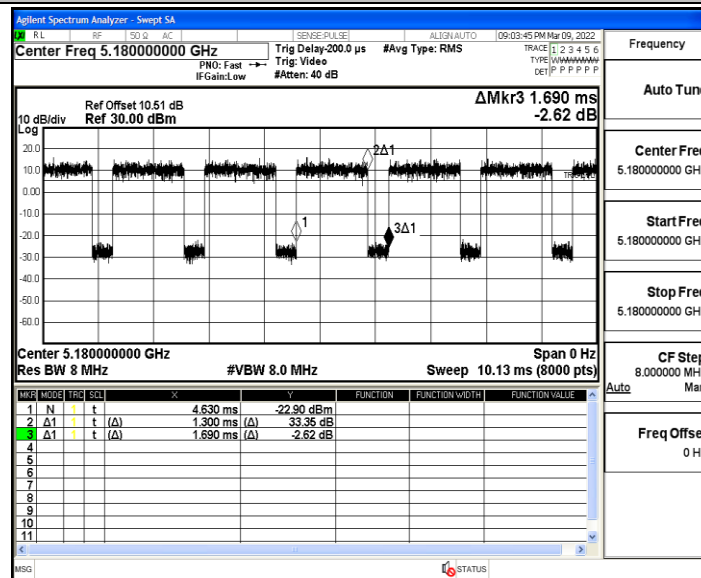
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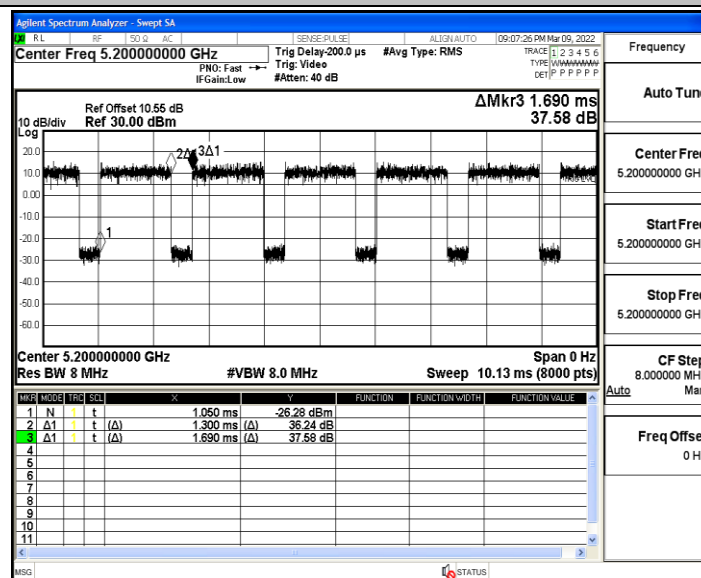
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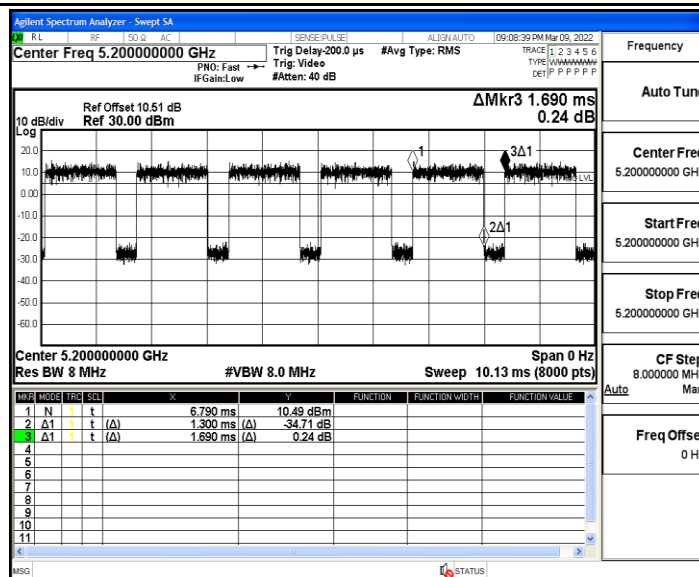
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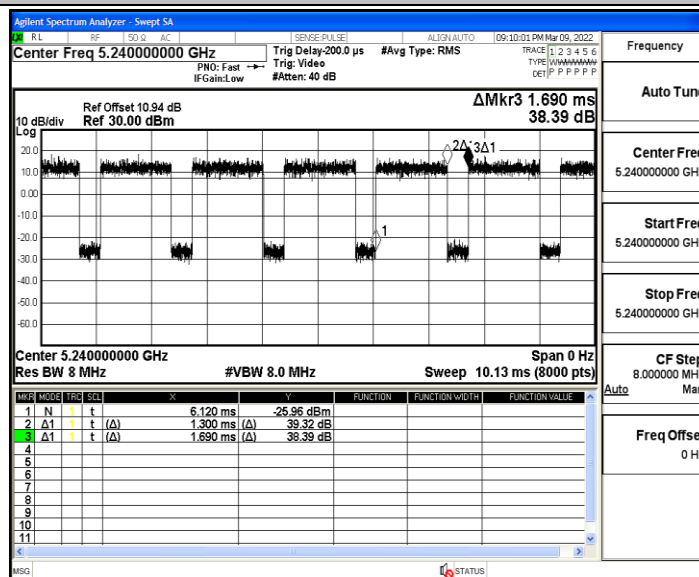
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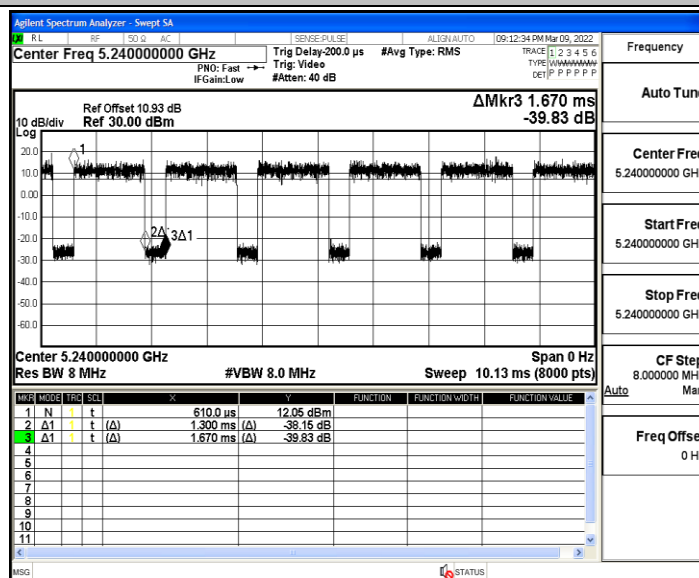
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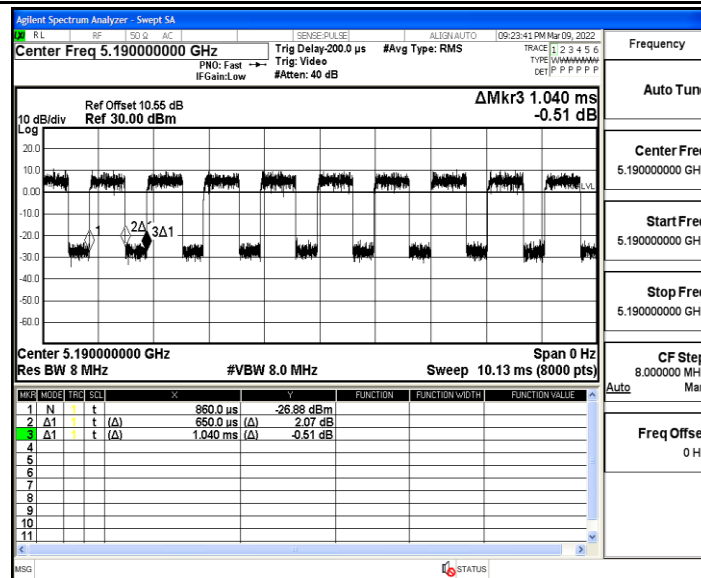
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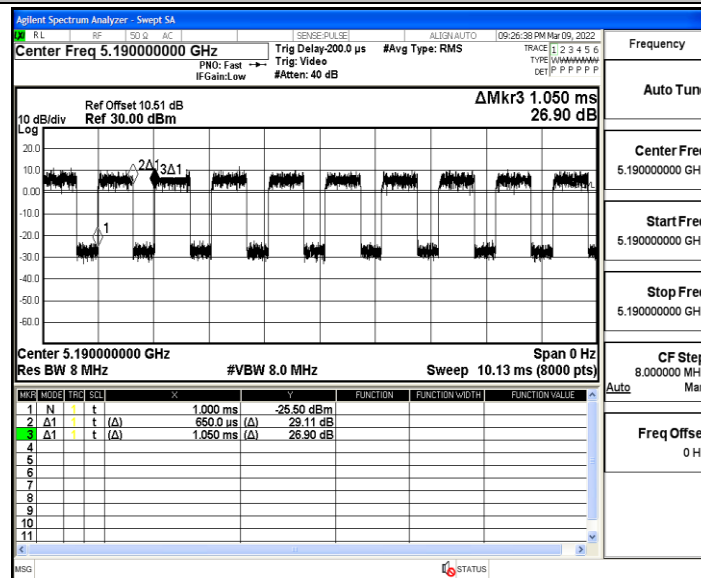
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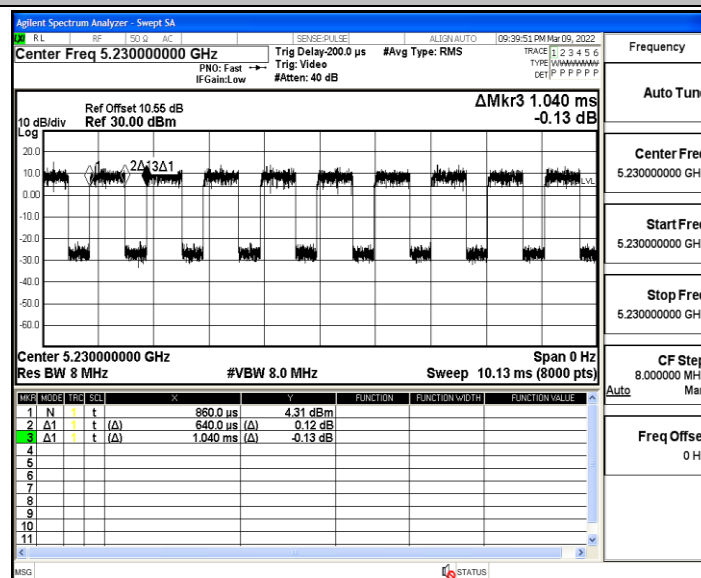
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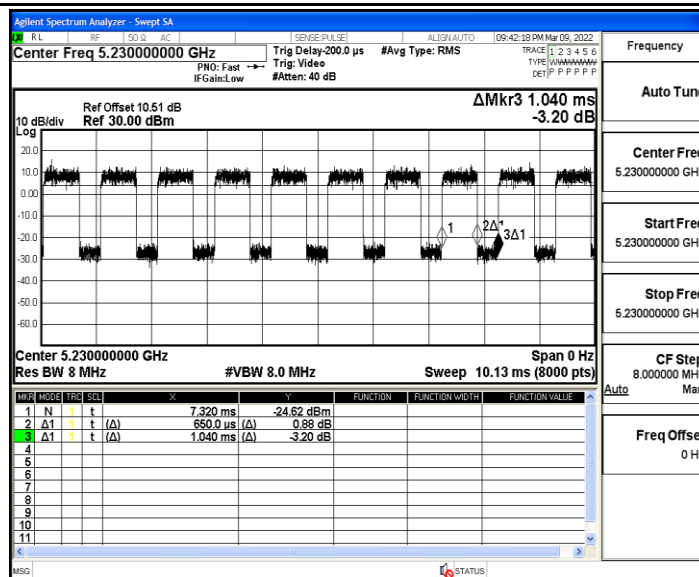
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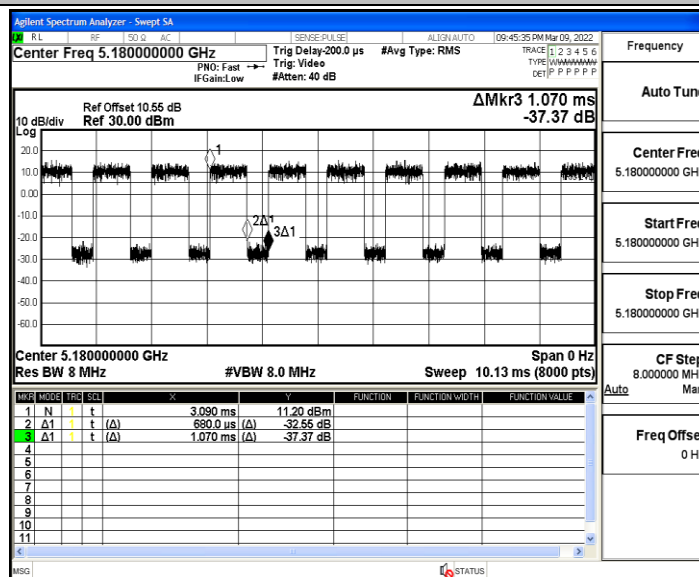
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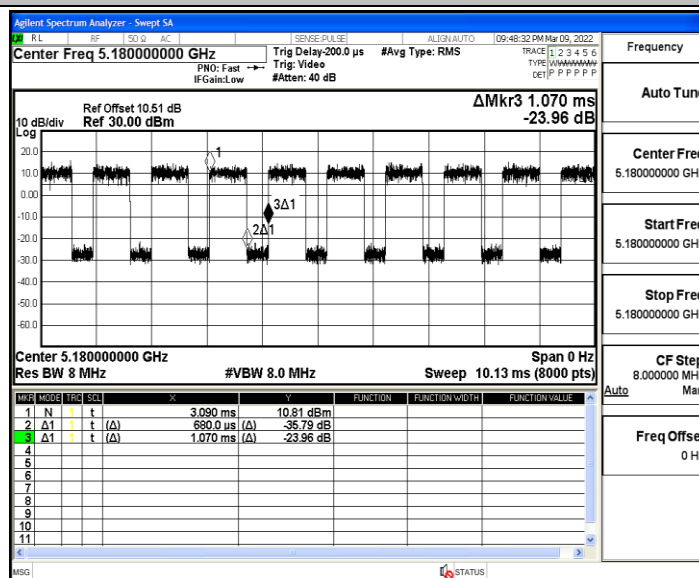
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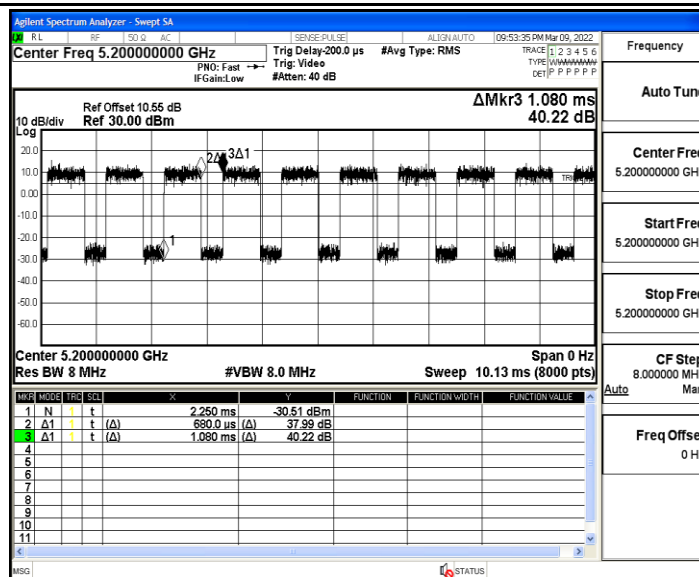
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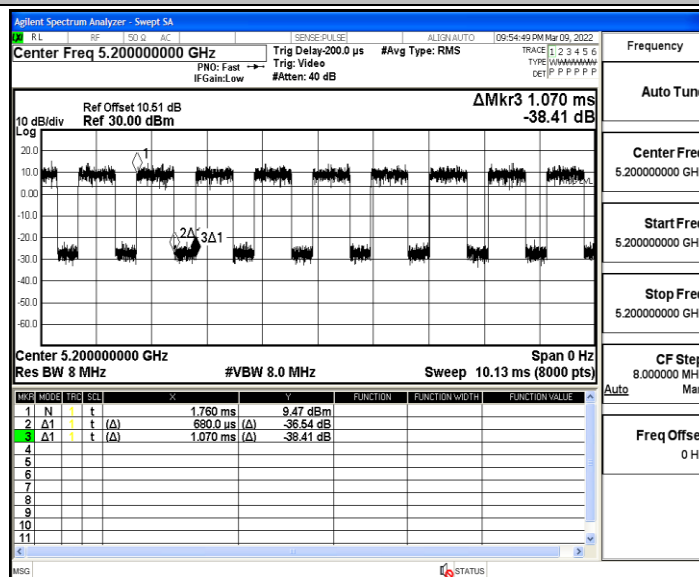
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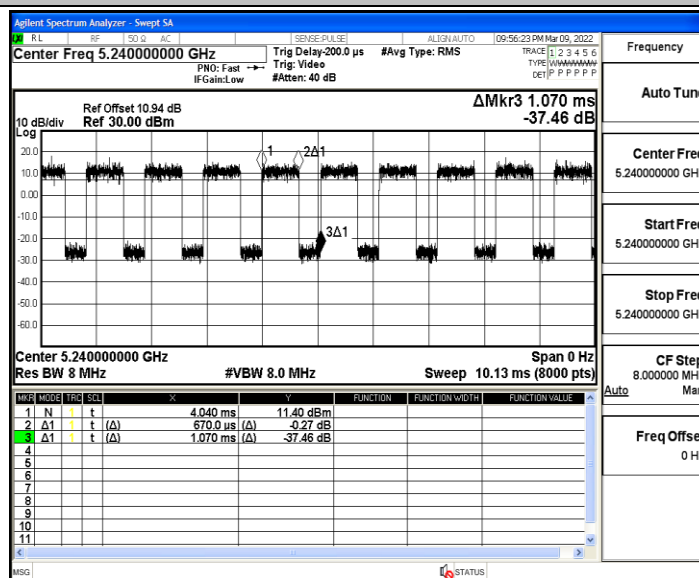
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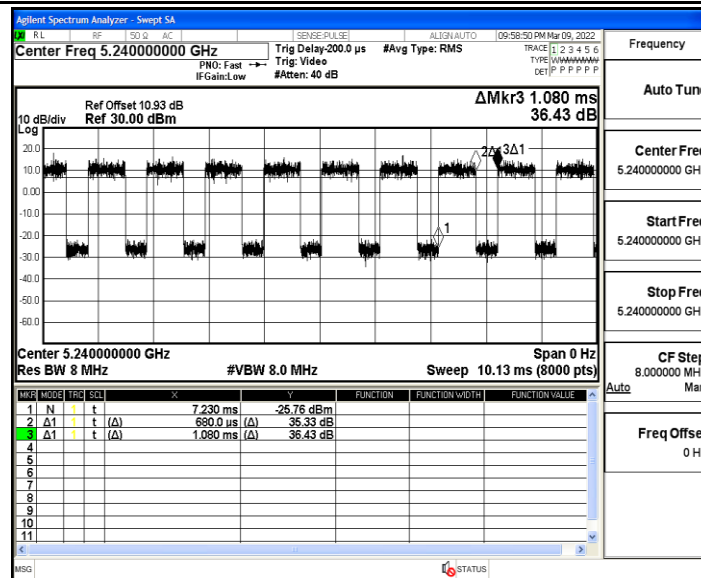
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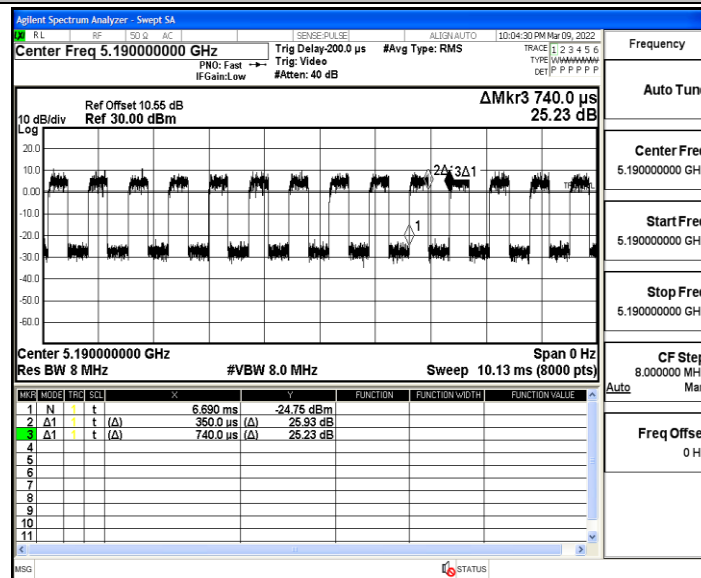
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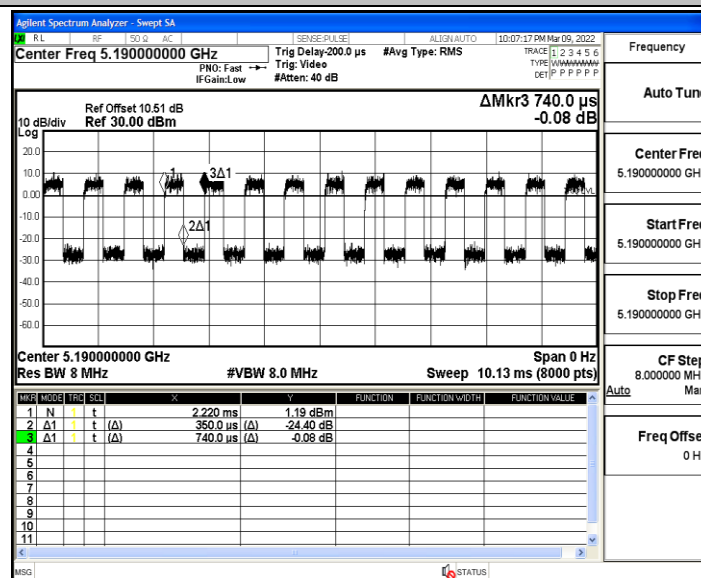
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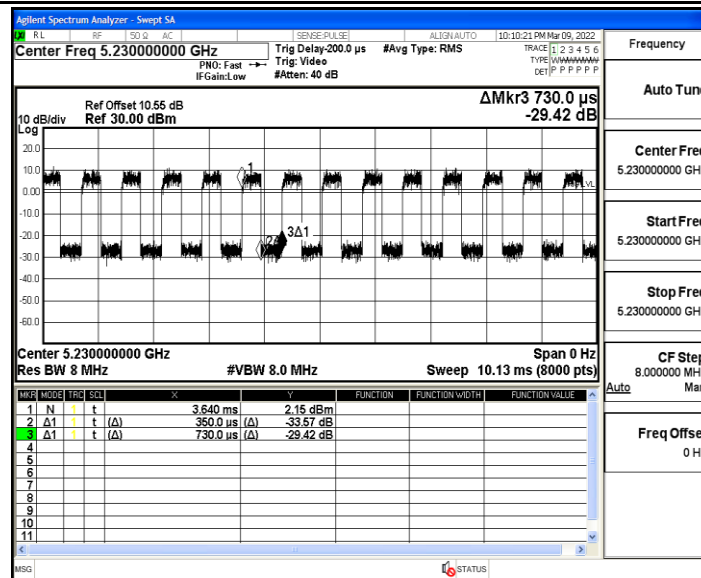
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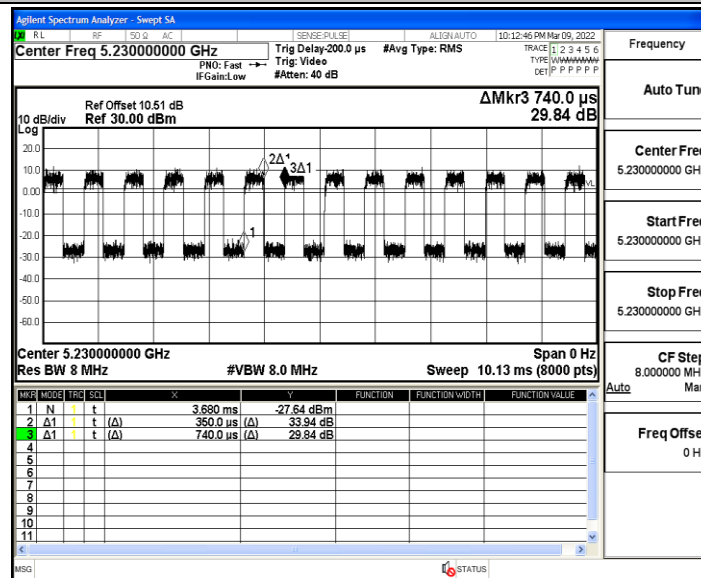
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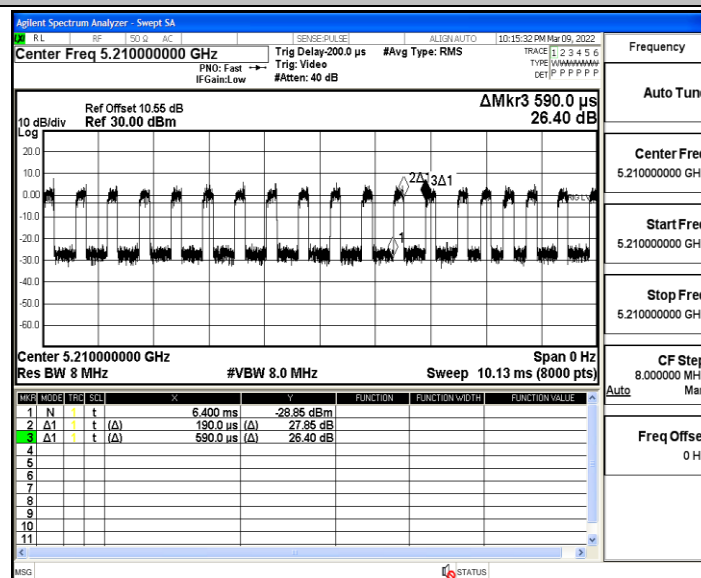
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11AC40MIMO_Ant2_5230



11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210

