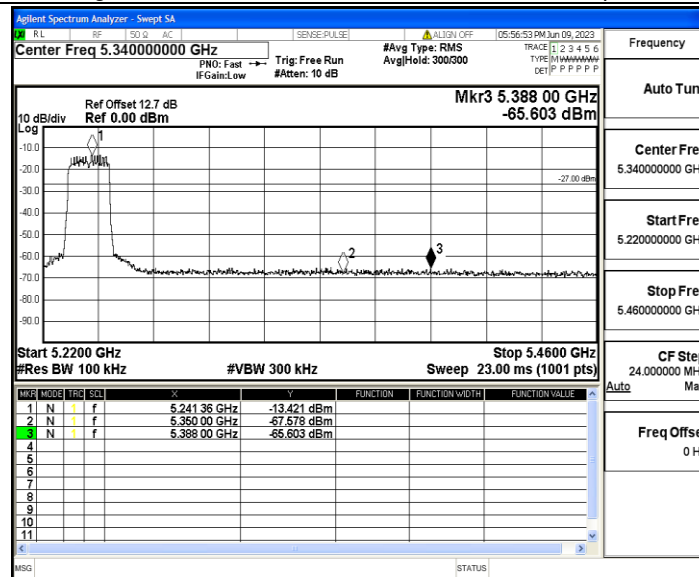
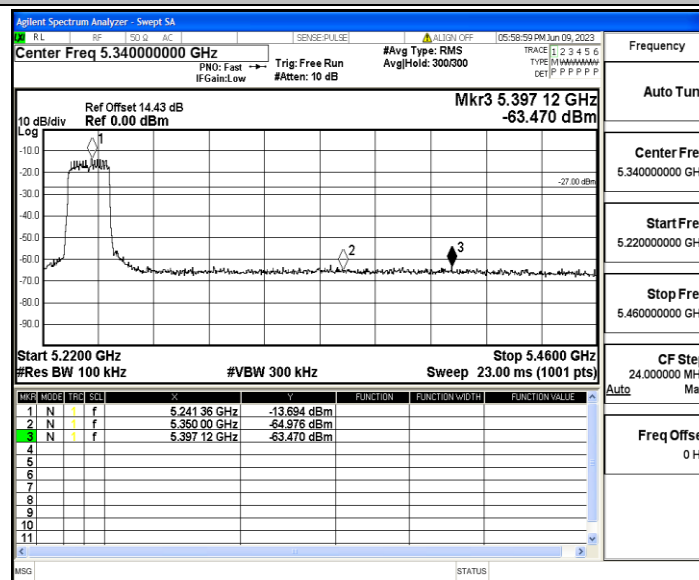
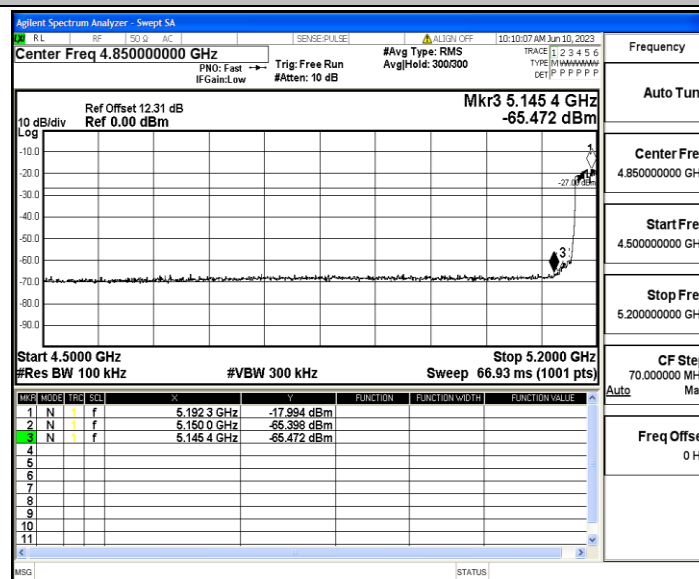




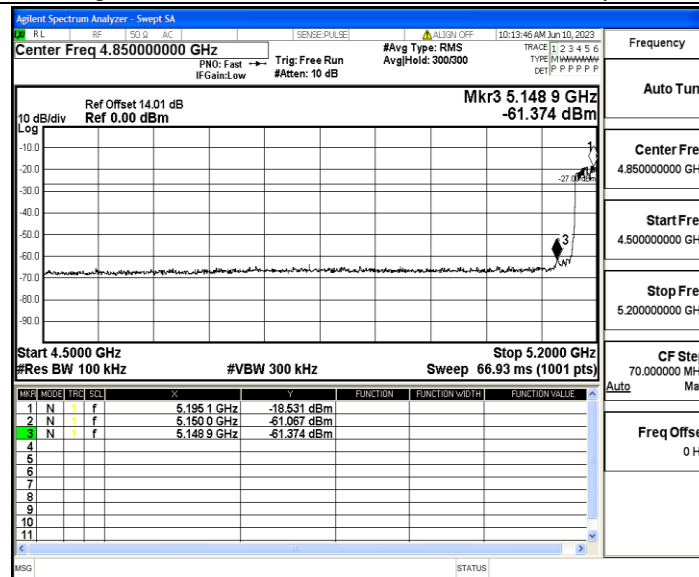
11N20MIMO_Ant2_High_5240



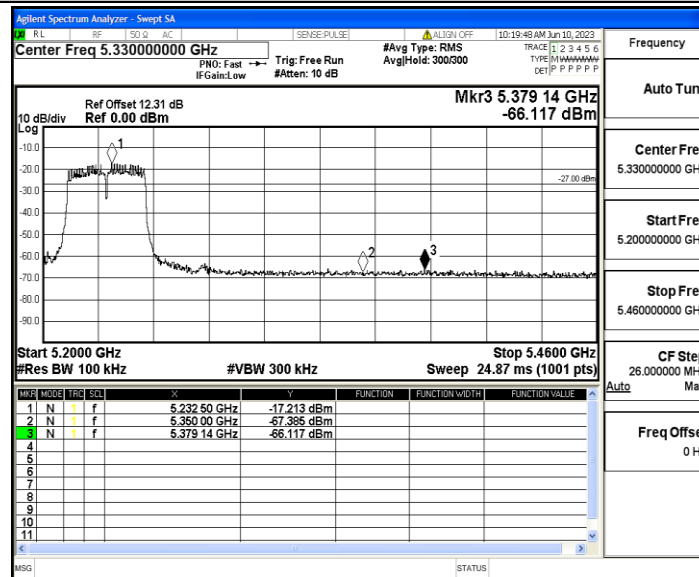
11N40MIMO_Ant1_Low_5190



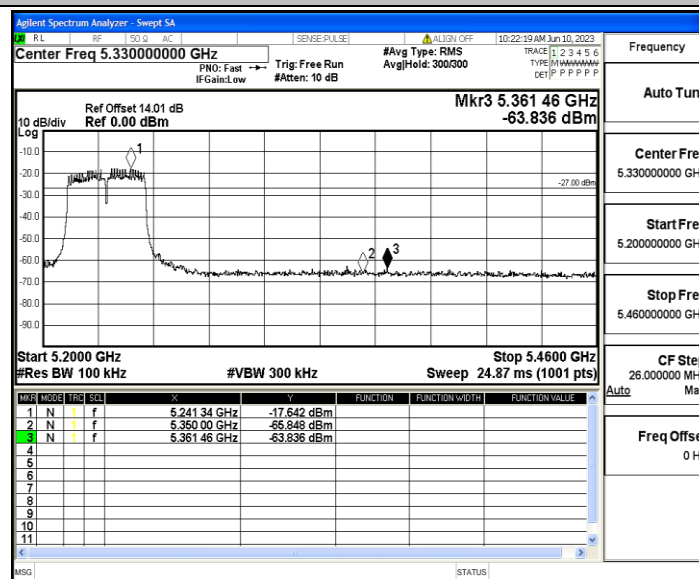
11N40MIMO_Ant2_Low_5190



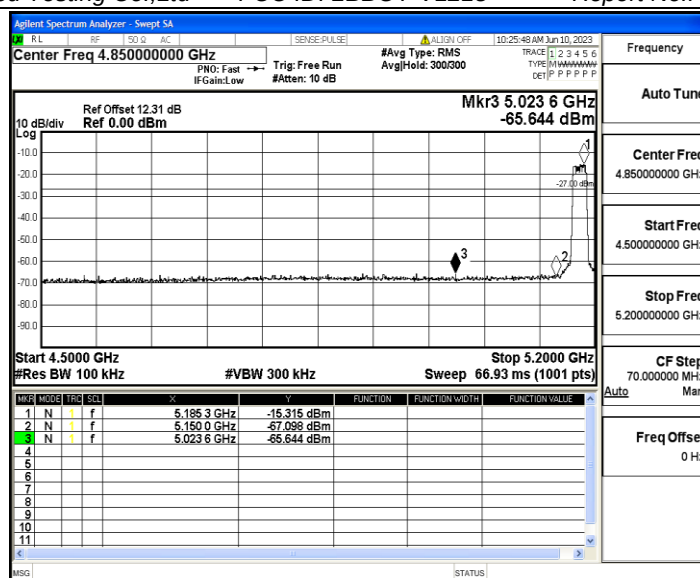
11N40MIMO_Ant1_High_5230



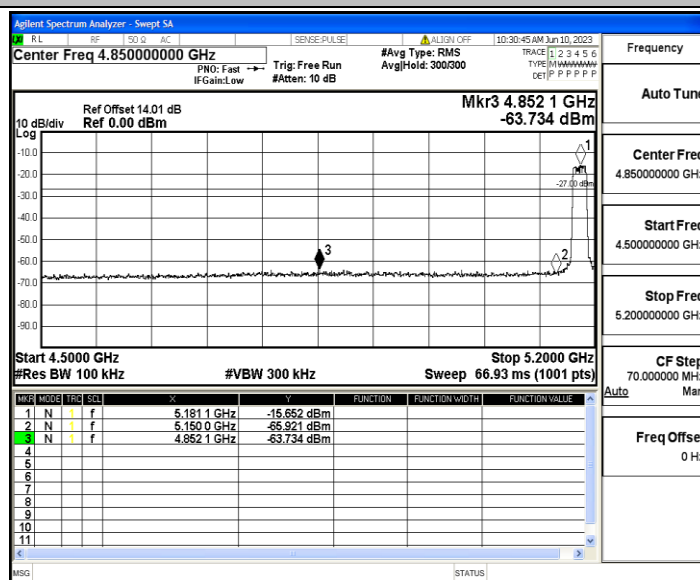
11N40MIMO_Ant2_High_5230



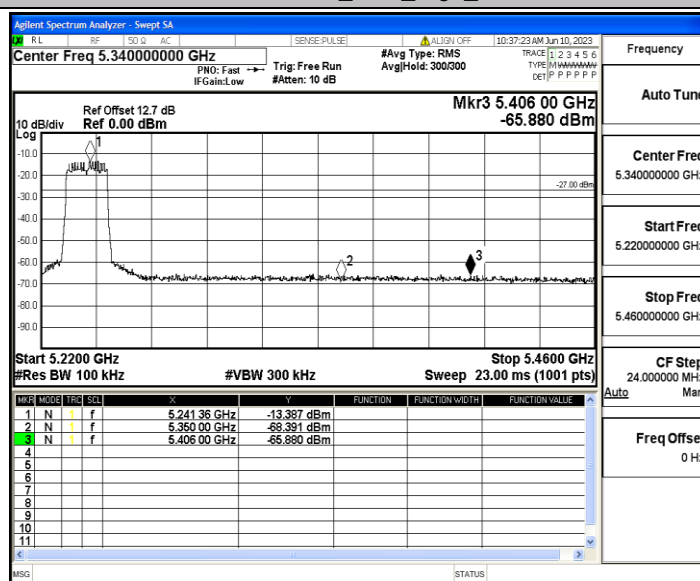
11AC20MIMO_Ant1_Low_5180



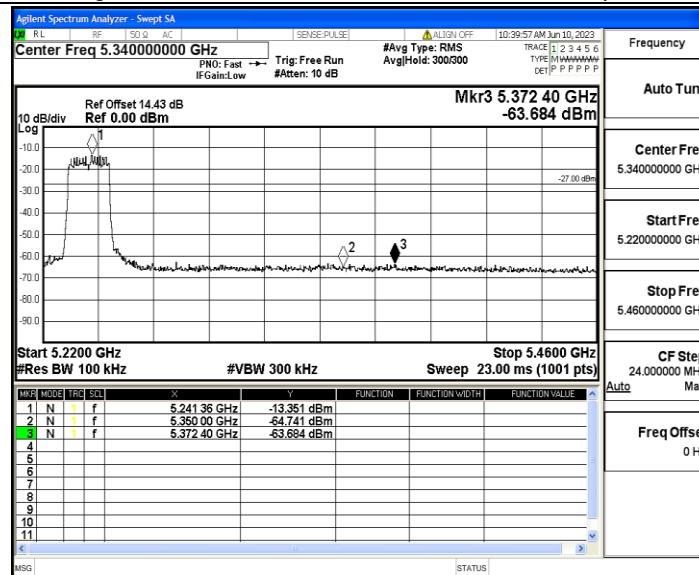
11AC20MIMO_Ant2_Low_5180



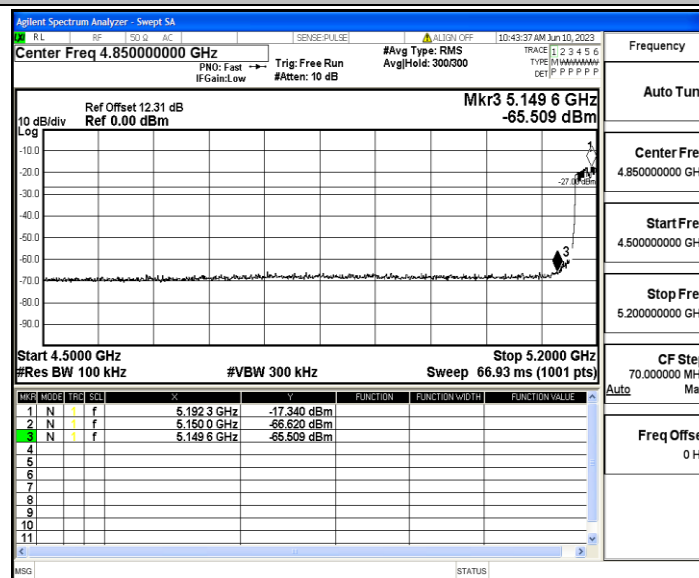
11AC20MIMO_Ant1_High_5240



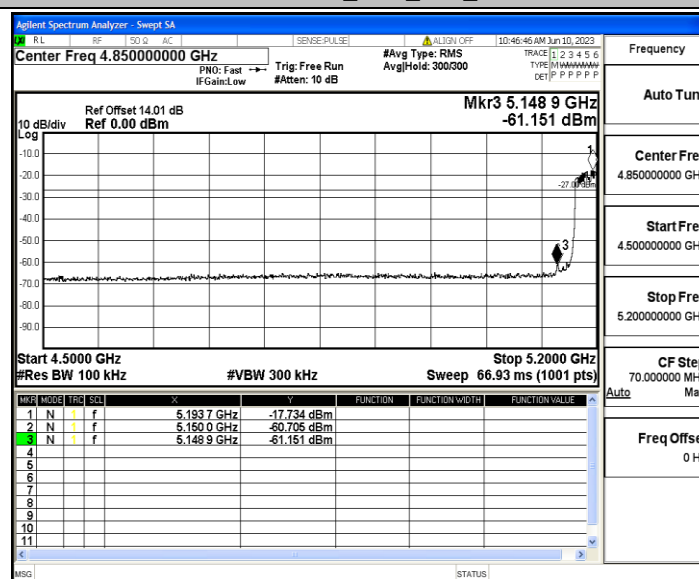
11AC20MIMO_Ant2_High_5240



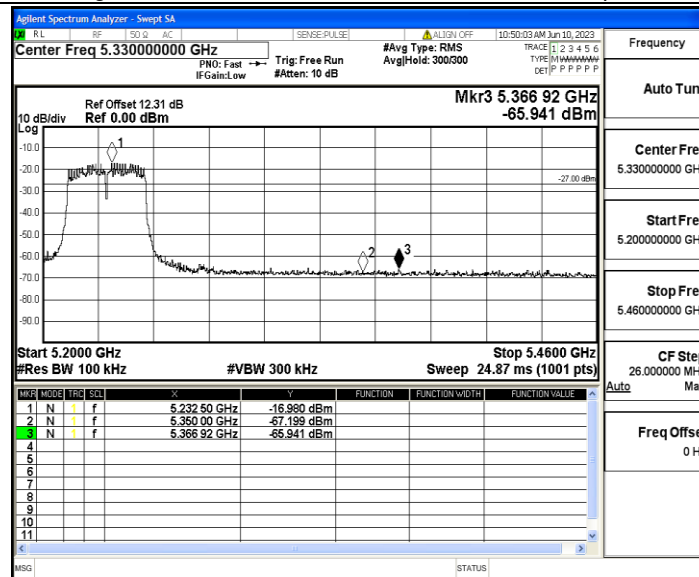
11AC40MIMO_Ant1_Low_5190



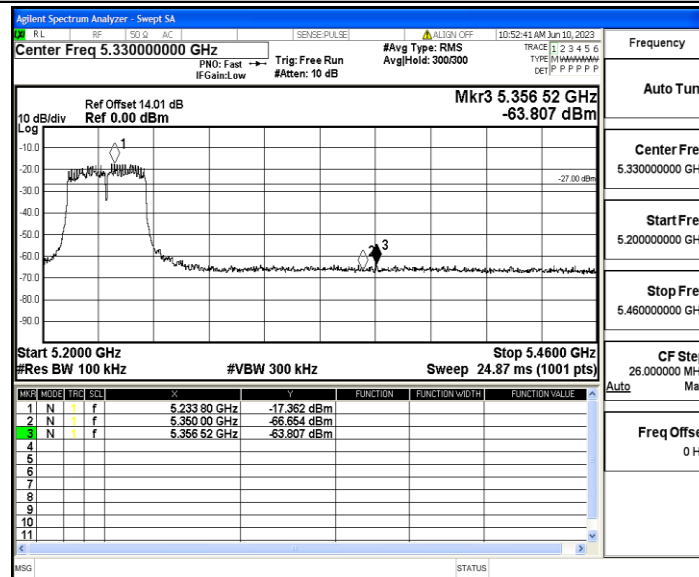
11AC40MIMO_Ant2_Low_5190



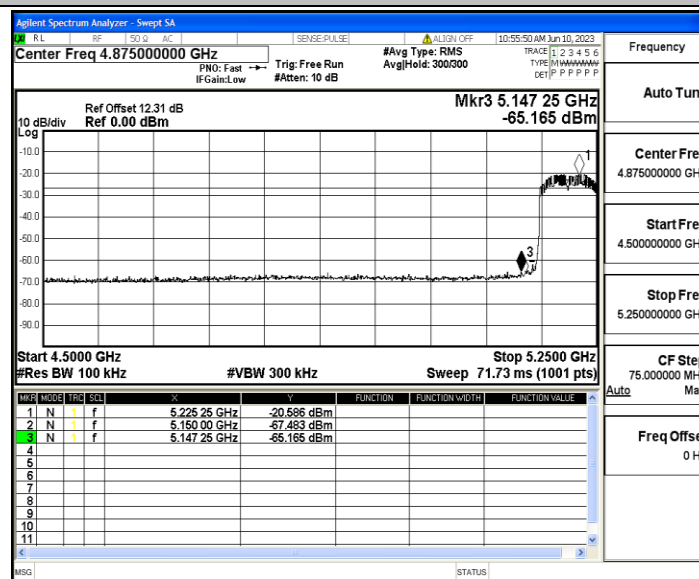
11AC40MIMO_Ant1_High_5230



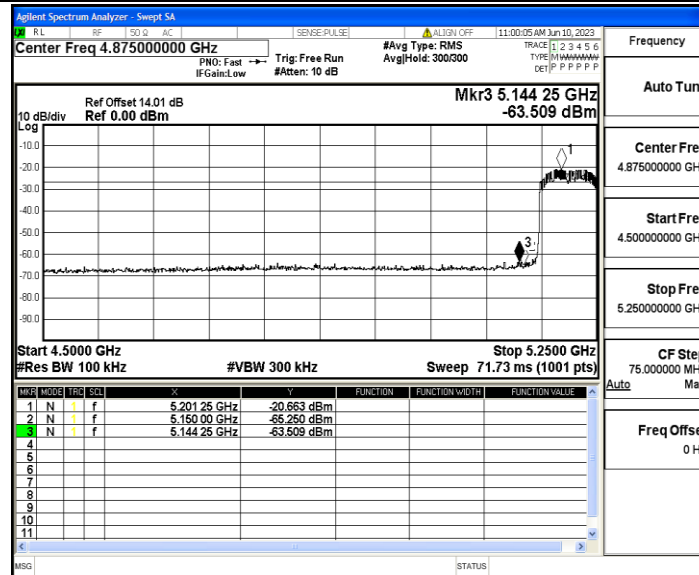
11AC40MIMO_Ant2_High_5230



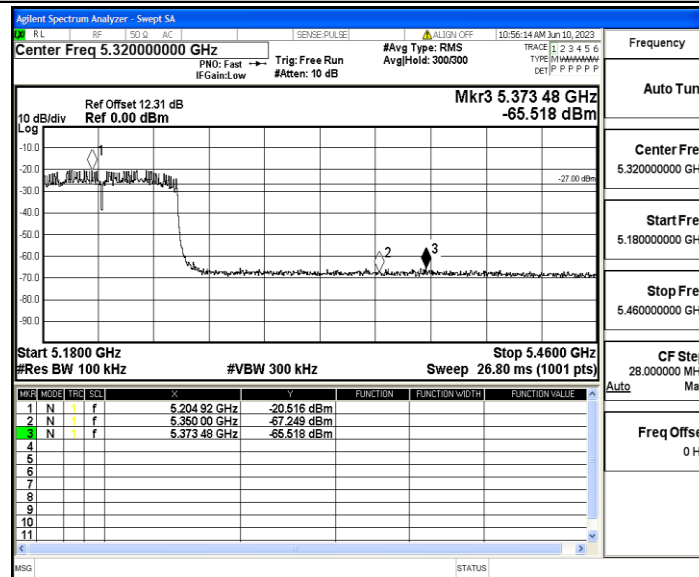
11AC80MIMO_Ant1_Low_5210



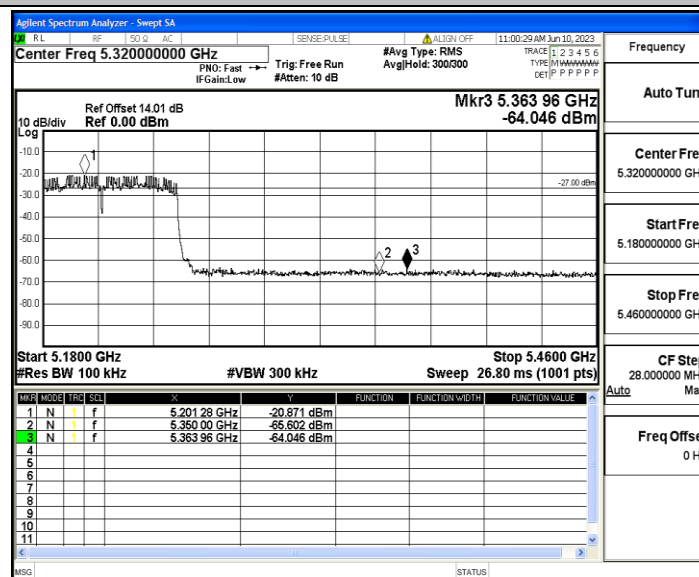
11AC80MIMO_Ant2_Low_5210



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	4.2	5179.946782	5150 – 5250	PASS
5180	20	3.5	5180.027788	5150 – 5250	PASS
5180	50	3.85	5180.045151	5150 – 5250	PASS
5180	40	3.85	5180.068073	5150 – 5250	PASS
5180	30	3.85	5180.080426	5150 – 5250	PASS
5180	20	3.85	5180.033497	5150 – 5250	PASS
5180	10	3.85	5180.087617	5150 – 5250	PASS
5180	0	3.85	5180.034409	5150 – 5250	PASS
5180	-10	3.85	5180.011353	5150 – 5250	PASS
5180	-20	3.85	5180.010211	5150 – 5250	PASS
5180	-30	3.85	5180.098999	5150 – 5250	PASS

Ant2

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5180	20	4.2	5180.041668	5150 – 5250	PASS
5180	20	3.5	5179.943812	5150 – 5250	PASS
5180	50	3.85	5179.933119	5150 – 5250	PASS
5180	40	3.85	5180.009188	5150 – 5250	PASS
5180	30	3.85	5180.064905	5150 – 5250	PASS
5180	20	3.85	5180.013739	5150 – 5250	PASS
5180	10	3.85	5180.070192	5150 – 5250	PASS
5180	0	3.85	5180.069637	5150 – 5250	PASS
5180	-10	3.85	5179.930498	5150 – 5250	PASS
5180	-20	3.85	5179.979890	5150 – 5250	PASS
5180	-30	3.85	5180.033406	5150 – 5250	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5200	20	4.2	5199.993448	5150 – 5250	PASS
5200	20	3.5	5200.073125	5150 – 5250	PASS
5200	50	3.85	5199.913046	5150 – 5250	PASS
5200	40	3.85	5199.901281	5150 – 5250	PASS
5200	30	3.85	5199.991221	5150 – 5250	PASS
5200	20	3.85	5199.983843	5150 – 5250	PASS
5200	10	3.85	5199.926193	5150 – 5250	PASS
5200	0	3.85	5200.078466	5150 – 5250	PASS
5200	-10	3.85	5200.026421	5150 – 5250	PASS
5200	-20	3.85	5199.957624	5150 – 5250	PASS
5200	-30	3.85	5200.036072	5150 – 5250	PASS

Ant2

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5200	20	4.2	5199.901465	5150 – 5250	PASS
5200	20	3.5	5199.954797	5150 – 5250	PASS
5200	50	3.85	5199.927894	5150 – 5250	PASS
5200	40	3.85	5199.927362	5150 – 5250	PASS
5200	30	3.85	5200.033307	5150 – 5250	PASS
5200	20	3.85	5200.047530	5150 – 5250	PASS
5200	10	3.85	5199.919571	5150 – 5250	PASS
5200	0	3.85	5200.039391	5150 – 5250	PASS
5200	-10	3.85	5200.029928	5150 – 5250	PASS
5200	-20	3.85	5199.924949	5150 – 5250	PASS
5200	-30	3.85	5200.090702	5150 – 5250	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5240	20	4.2	5240.084592	5150 – 5250	PASS
5240	20	3.5	5240.044391	5150 – 5250	PASS
5240	50	3.85	5240.026479	5150 – 5250	PASS
5240	40	3.85	5240.087415	5150 – 5250	PASS
5240	30	3.85	5239.979800	5150 – 5250	PASS
5240	20	3.85	5239.984812	5150 – 5250	PASS
5240	10	3.85	5239.980524	5150 – 5250	PASS
5240	0	3.85	5240.050291	5150 – 5250	PASS
5240	-10	3.85	5239.969765	5150 – 5250	PASS
5240	-20	3.85	5239.900860	5150 – 5250	PASS
5240	-30	3.85	5239.903574	5150 – 5250	PASS

Ant2

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5240	20	4.2	5239.986078	5150 – 5250	PASS
5240	20	3.5	5239.966894	5150 – 5250	PASS
5240	50	3.85	5240.044984	5150 – 5250	PASS
5240	40	3.85	5239.978677	5150 – 5250	PASS
5240	30	3.85	5239.977048	5150 – 5250	PASS
5240	20	3.85	5240.004255	5150 – 5250	PASS
5240	10	3.85	5240.067198	5150 – 5250	PASS
5240	0	3.85	5239.983198	5150 – 5250	PASS
5240	-10	3.85	5240.069672	5150 – 5250	PASS
5240	-20	3.85	5239.904503	5150 – 5250	PASS
5240	-30	3.85	5239.936096	5150 – 5250	PASS

Ant1

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5190	20	4.2	5189.993164	5150 – 5250	PASS
5190	20	3.5	5190.014743	5150 – 5250	PASS
5190	50	3.85	5190.082357	5150 – 5250	PASS
5190	40	3.85	5190.028266	5150 – 5250	PASS
5190	30	3.85	5189.970818	5150 – 5250	PASS
5190	20	3.85	5189.945855	5150 – 5250	PASS
5190	10	3.85	5189.915637	5150 – 5250	PASS
5190	0	3.85	5190.002664	5150 – 5250	PASS
5190	-10	3.85	5190.078286	5150 – 5250	PASS
5190	-20	3.85	5189.955897	5150 – 5250	PASS
5190	-30	3.85	5190.025394	5150 – 5250	PASS

Ant2

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5190	20	4.2	5189.987093	5150 – 5250	PASS
5190	20	3.5	5190.033786	5150 – 5250	PASS
5190	50	3.85	5189.902165	5150 – 5250	PASS
5190	40	3.85	5190.013379	5150 – 5250	PASS
5190	30	3.85	5189.934647	5150 – 5250	PASS
5190	20	3.85	5189.916215	5150 – 5250	PASS
5190	10	3.85	5189.968508	5150 – 5250	PASS
5190	0	3.85	5189.919816	5150 – 5250	PASS
5190	-10	3.85	5189.923460	5150 – 5250	PASS
5190	-20	3.85	5190.093748	5150 – 5250	PASS
5190	-30	3.85	5190.074220	5150 – 5250	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5230	20	4.2	5229.912074	5150 – 5250	PASS
5230	20	3.5	5230.086091	5150 – 5250	PASS
5230	50	3.85	5230.015434	5150 – 5250	PASS
5230	40	3.85	5229.900206	5150 – 5250	PASS
5230	30	3.85	5230.016337	5150 – 5250	PASS
5230	20	3.85	5229.976536	5150 – 5250	PASS
5230	10	3.85	5230.077841	5150 – 5250	PASS
5230	0	3.85	5230.025593	5150 – 5250	PASS
5230	-10	3.85	5229.966610	5150 – 5250	PASS
5230	-20	3.85	5230.002236	5150 – 5250	PASS
5230	-30	3.85	5230.082385	5150 – 5250	PASS

Ant2

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5230	20	4.2	5229.963651	5150 – 5250	PASS
5230	20	3.5	5229.977789	5150 – 5250	PASS
5230	50	3.85	5229.914648	5150 – 5250	PASS
5230	40	3.85	5229.939504	5150 – 5250	PASS
5230	30	3.85	5229.972050	5150 – 5250	PASS
5230	20	3.85	5230.057440	5150 – 5250	PASS
5230	10	3.85	5229.973039	5150 – 5250	PASS
5230	0	3.85	5230.019128	5150 – 5250	PASS
5230	-10	3.85	5230.034837	5150 – 5250	PASS
5230	-20	3.85	5230.087030	5150 – 5250	PASS
5230	-30	3.85	5230.009747	5150 – 5250	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5210	20	4.2	5209.978519	5150 – 5250	PASS
5210	20	3.5	5210.073207	5150 – 5250	PASS
5210	50	3.85	5209.967113	5150 – 5250	PASS
5210	40	3.85	5209.926161	5150 – 5250	PASS
5210	30	3.85	5209.932182	5150 – 5250	PASS
5210	20	3.85	5209.915574	5150 – 5250	PASS
5210	10	3.85	5210.048143	5150 – 5250	PASS
5210	0	3.85	5210.032546	5150 – 5250	PASS
5210	-10	3.85	5209.957385	5150 – 5250	PASS
5210	-20	3.85	5210.059229	5150 – 5250	PASS
5210	-30	3.85	5210.075504	5150 – 5250	PASS

Ant2

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5210	20	4.2	5209.958256	5150 – 5250	PASS
5210	20	3.5	5210.086964	5150 – 5250	PASS
5210	50	3.85	5209.915096	5150 – 5250	PASS
5210	40	3.85	5210.094989	5150 – 5250	PASS
5210	30	3.85	5210.034883	5150 – 5250	PASS
5210	20	3.85	5209.901089	5150 – 5250	PASS
5210	10	3.85	5210.000600	5150 – 5250	PASS
5210	0	3.85	5210.027735	5150 – 5250	PASS
5210	-10	3.85	5210.067399	5150 – 5250	PASS
5210	-20	3.85	5210.056837	5150 – 5250	PASS
5210	-30	3.85	5209.999564	5150 – 5250	PASS

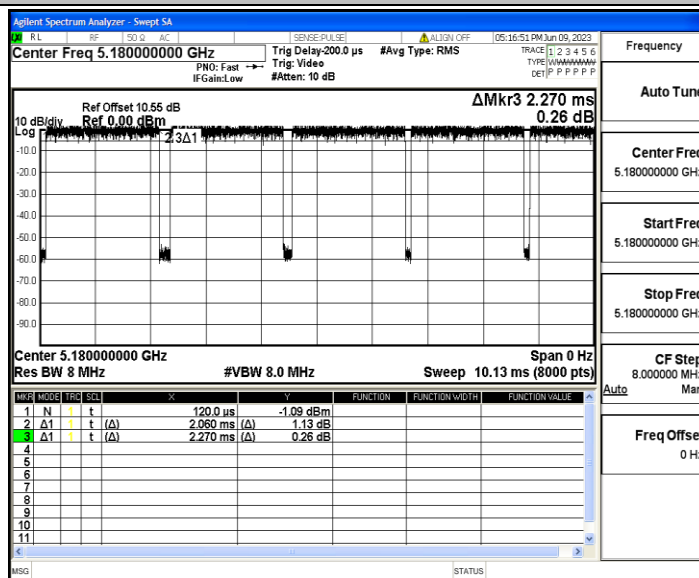
Appendix F: Duty Cycle

Test Result

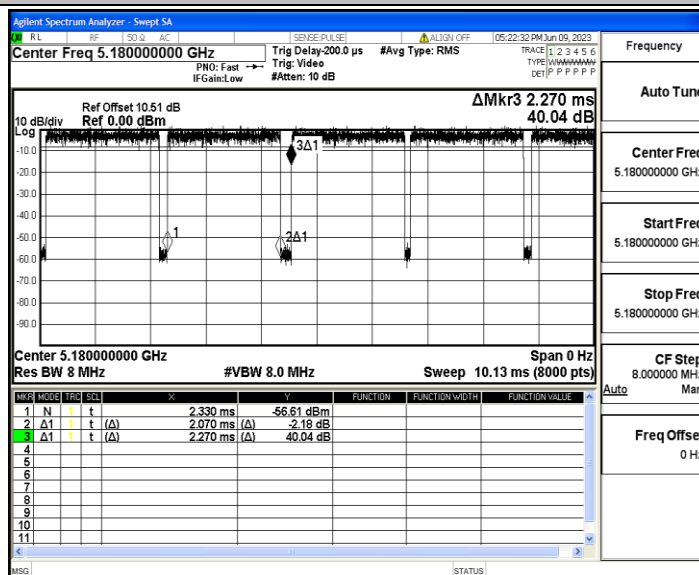
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T [kHz]
11A	Ant1	5180	2.06	2.27	90.75	0.49
	Ant2	5180	2.07	2.27	91.19	0.48
	Ant1	5200	2.06	2.25	91.56	0.49
	Ant2	5200	2.06	2.28	90.35	0.49
	Ant1	5240	2.06	2.22	92.79	0.49
	Ant2	5240	2.07	2.29	90.39	0.48
11N20MIMO	Ant1	5180	0.23	0.45	51.11	4.35
	Ant2	5180	0.23	0.46	50.00	4.35
	Ant1	5200	0.23	0.46	50.00	4.35
	Ant2	5200	0.23	0.46	50.00	4.35
	Ant1	5240	0.23	0.46	50.00	4.35
	Ant2	5240	0.23	0.46	50.00	4.35
11N40MIMO	Ant1	5190	0.12	0.36	33.33	8.33
	Ant2	5190	0.13	0.36	36.11	7.69
	Ant1	5230	0.12	0.35	34.29	8.33
	Ant2	5230	0.13	0.36	36.11	7.69
11AC20MIMO	Ant1	5180	0.20	0.45	44.44	5.00
	Ant2	5180	0.20	0.46	43.48	5.00
	Ant1	5200	0.20	0.45	44.44	5.00
	Ant2	5200	0.20	0.45	44.44	5.00
	Ant1	5240	0.20	0.45	44.44	5.00
	Ant2	5240	0.20	0.45	44.44	5.00
11AC40MIMO	Ant1	5190	0.11	0.37	29.73	9.09
	Ant2	5190	0.12	0.37	32.43	8.33
	Ant1	5230	0.11	0.37	29.73	9.09
	Ant2	5230	0.11	0.37	29.73	9.09
11AC80MIMO	Ant1	5210	0.08	0.33	24.24	12.50
	Ant2	5210	0.07	0.32	21.88	14.29

Test Graphs

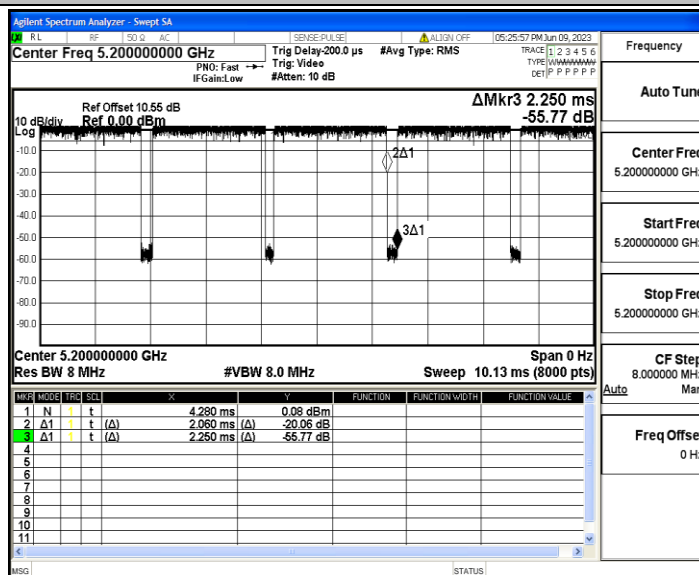
11A_Ant1_5180



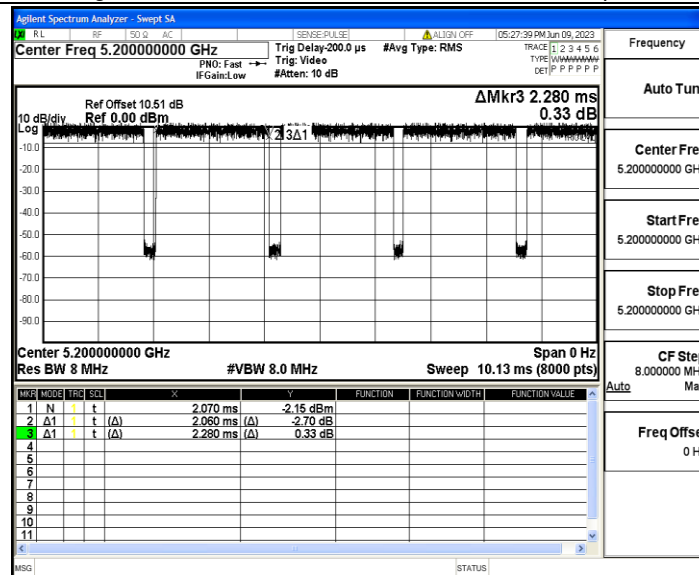
11A_Ant2_5180



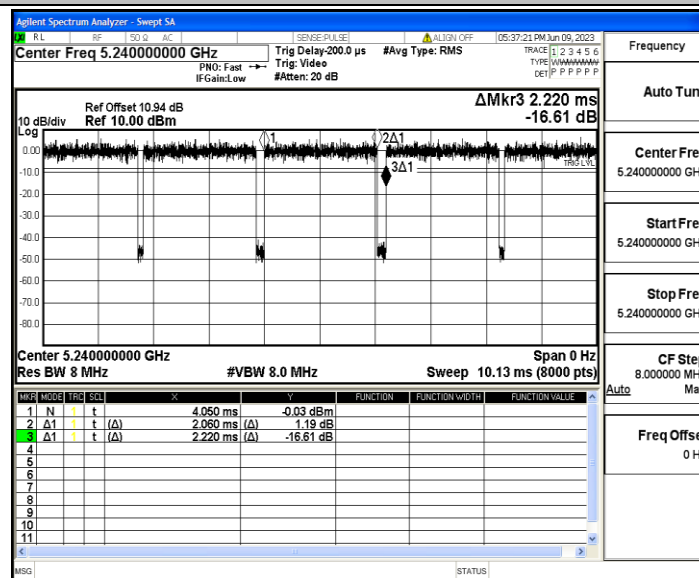
11A_Ant1_5200



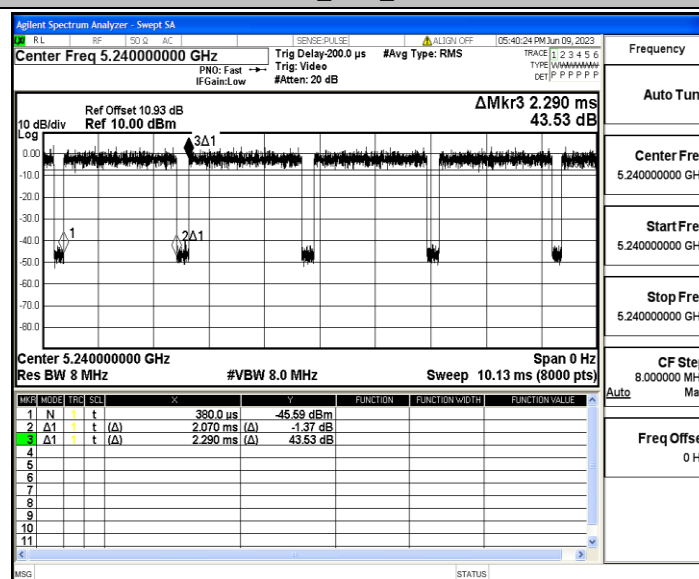
11A_Ant2_5200



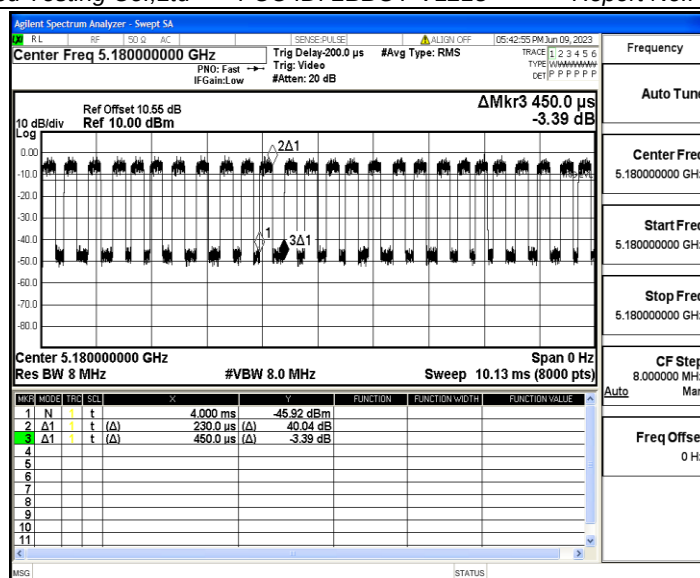
11A_Ant1_5240



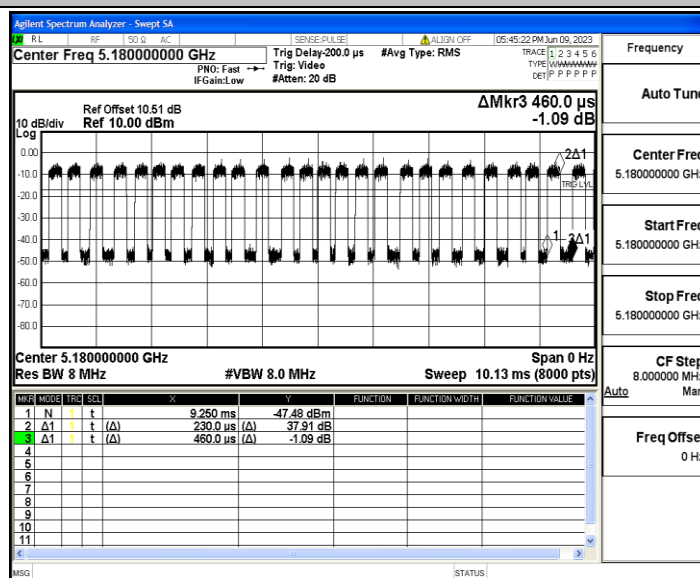
11A_Ant2_5240



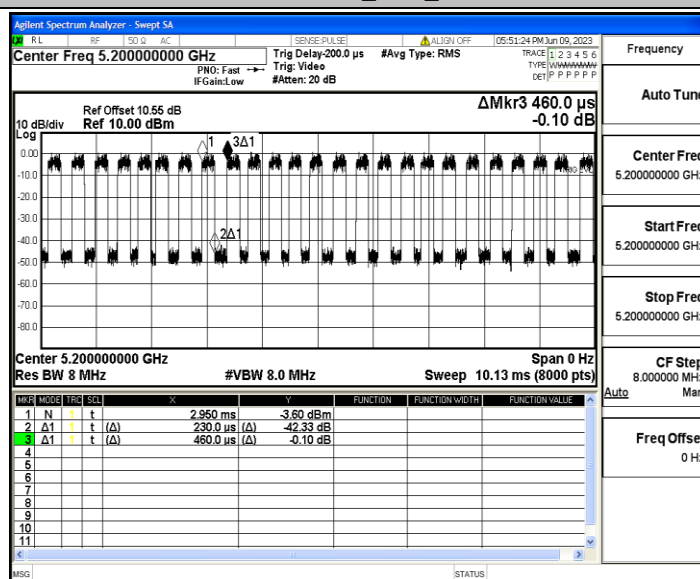
11N20MIMO_Ant1_5180



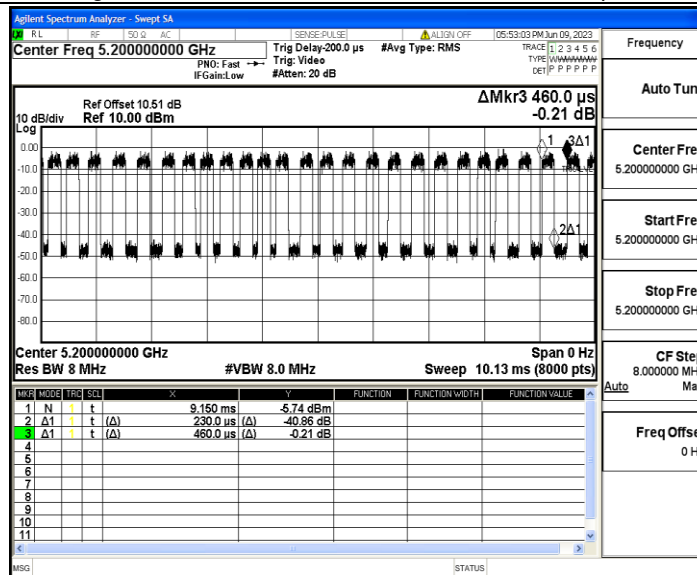
11N20MIMO_Ant2_5180



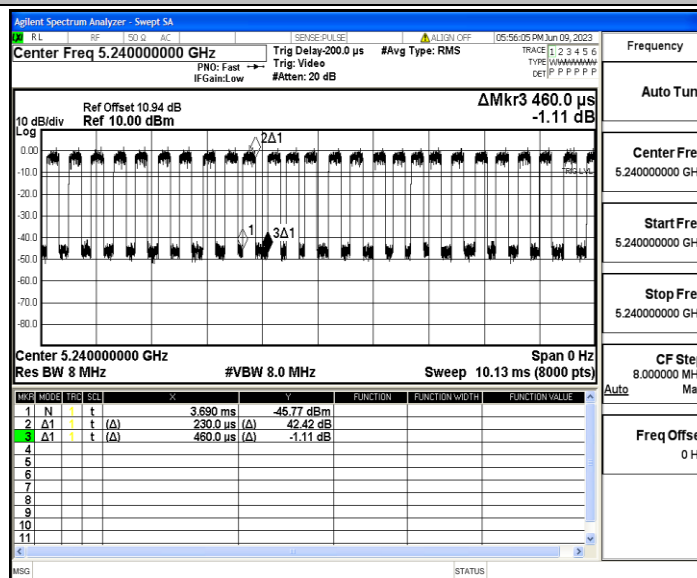
11N20MIMO_Ant1_5200



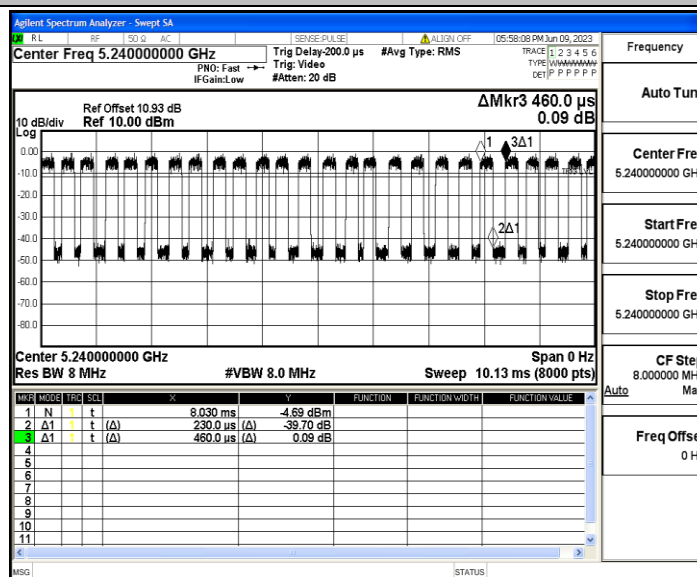
11N20MIMO_Ant2_5200



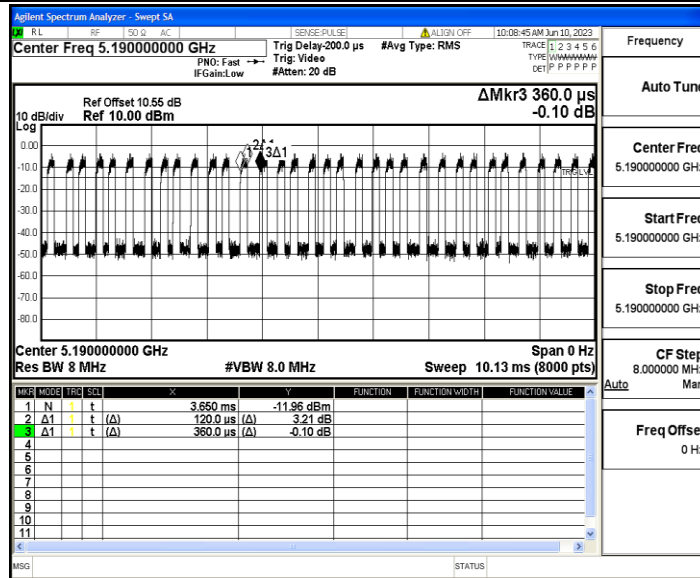
11N20MIMO_Ant1_5240



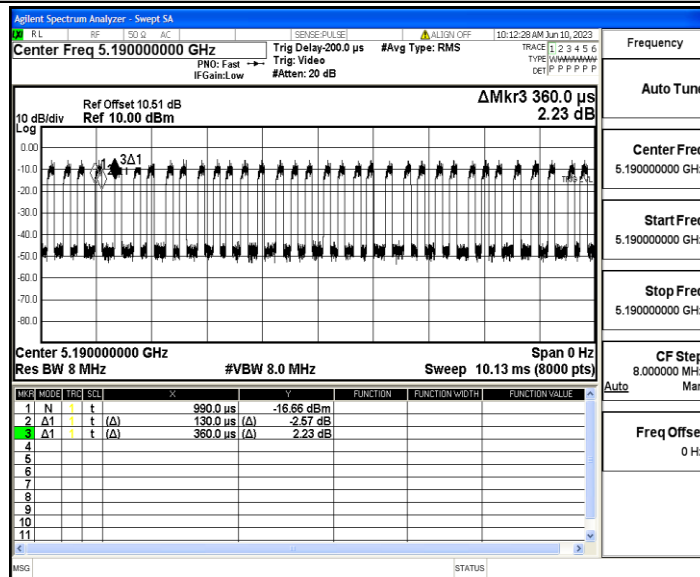
11N20MIMO_Ant2_5240



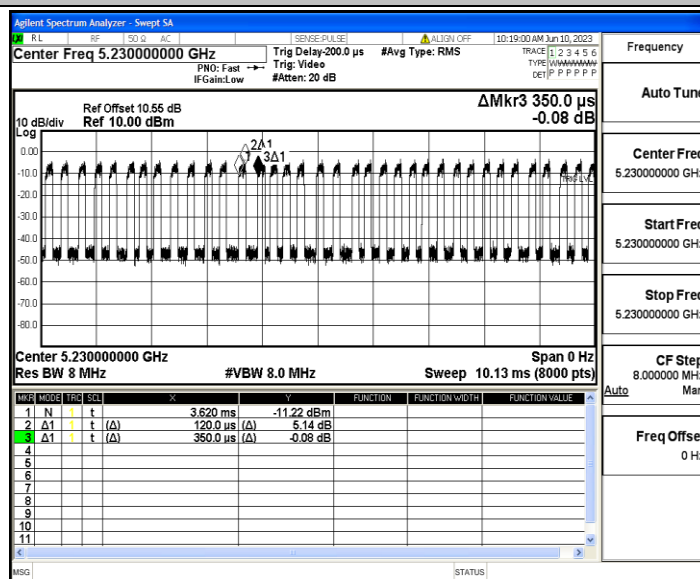
11N40MIMO_Ant1_5190



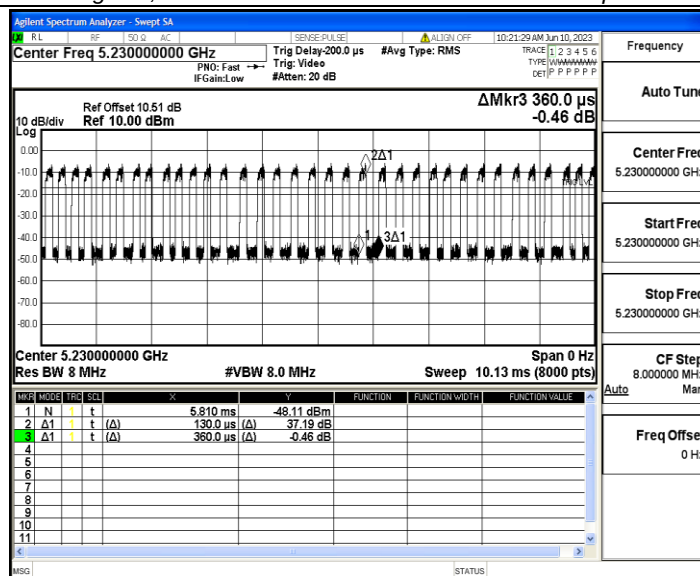
11N40MIMO_Ant2_5190



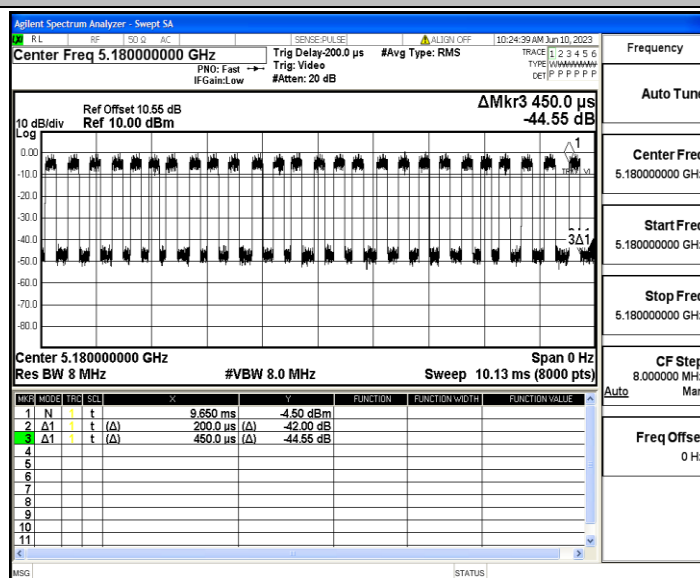
11N40MIMO_Ant1_5230



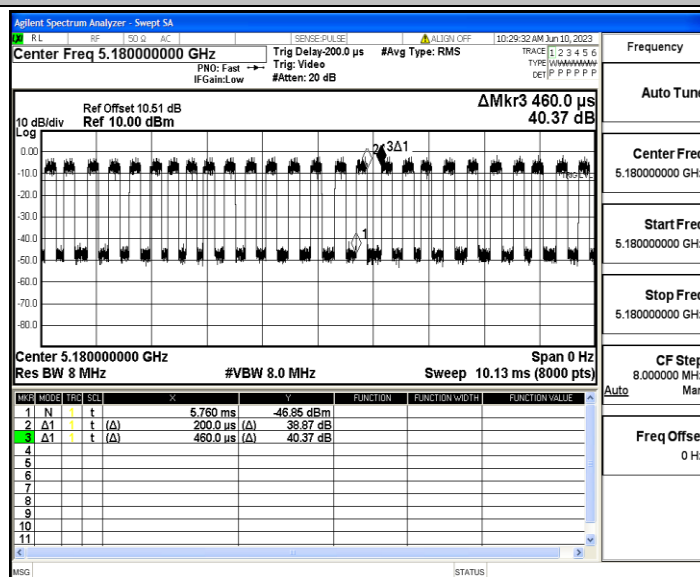
11N40MIMO_Ant2_5230



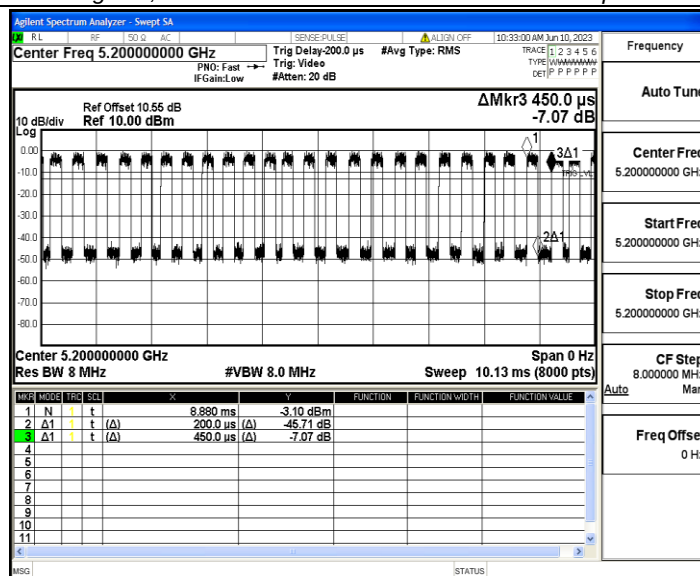
11AC20MIMO_Ant1_5180



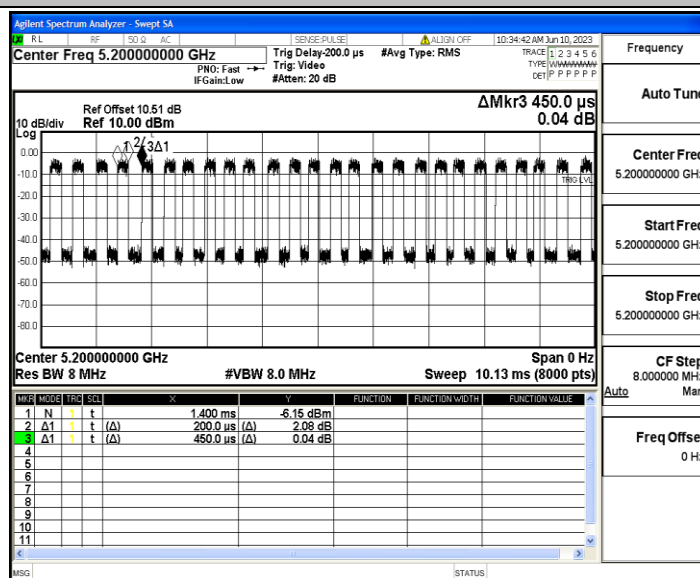
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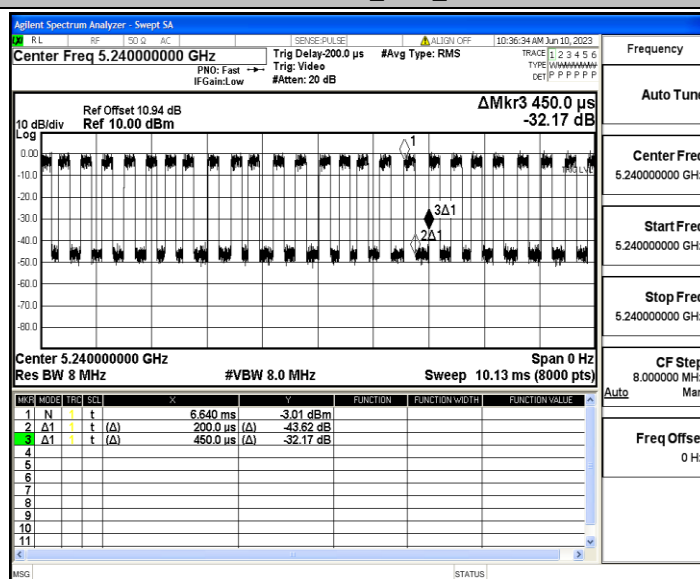
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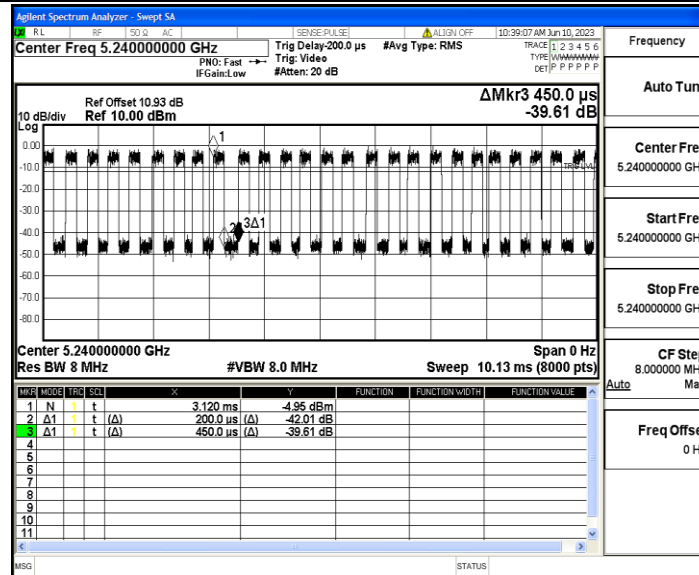
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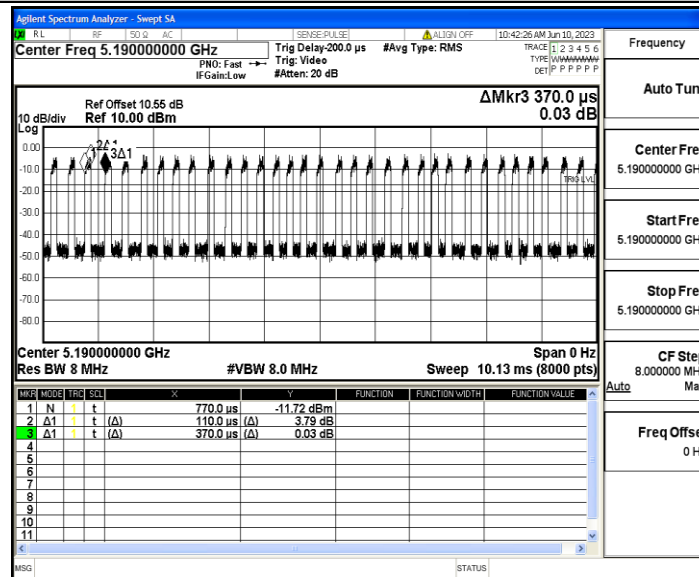
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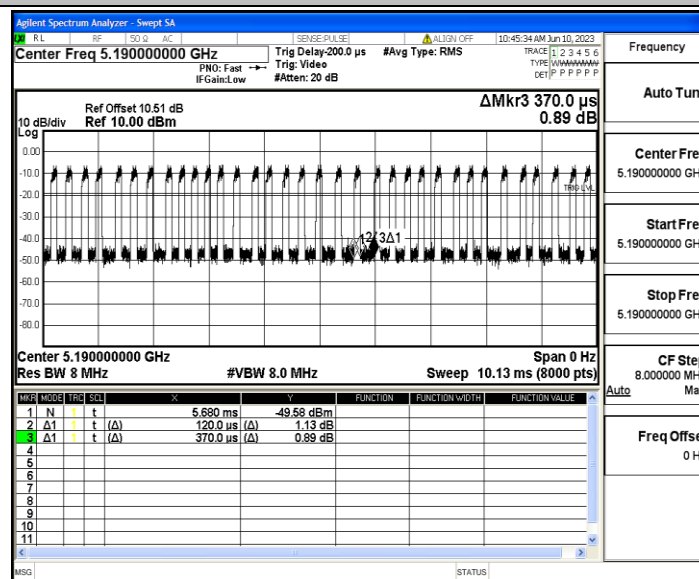
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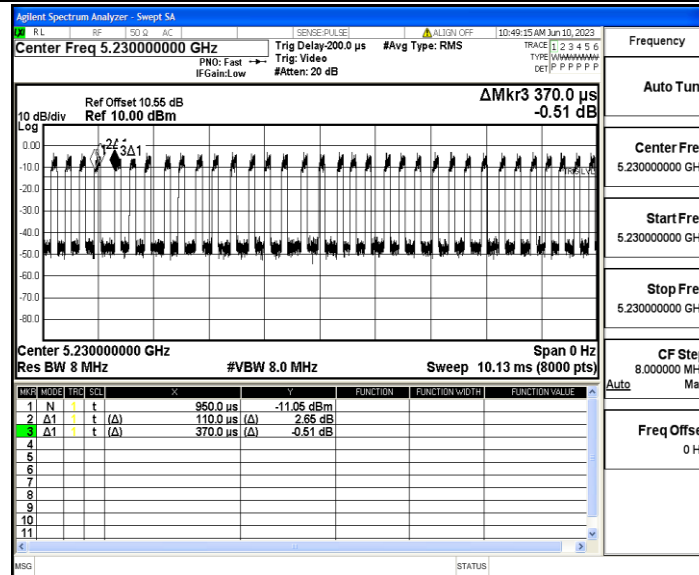
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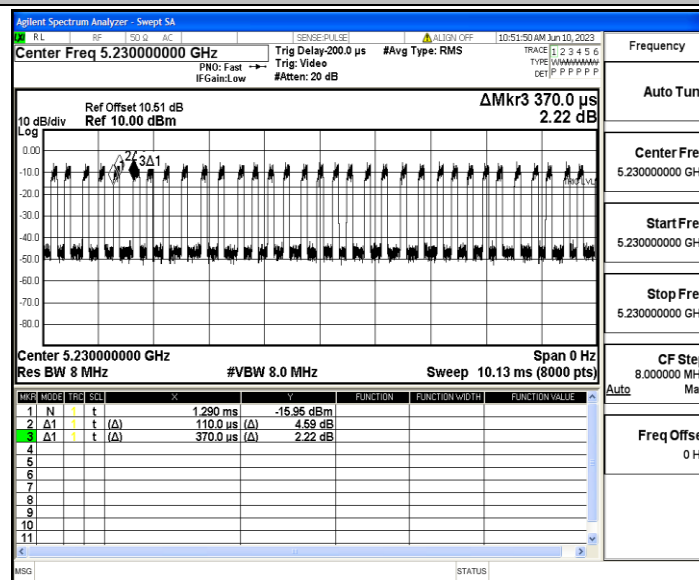
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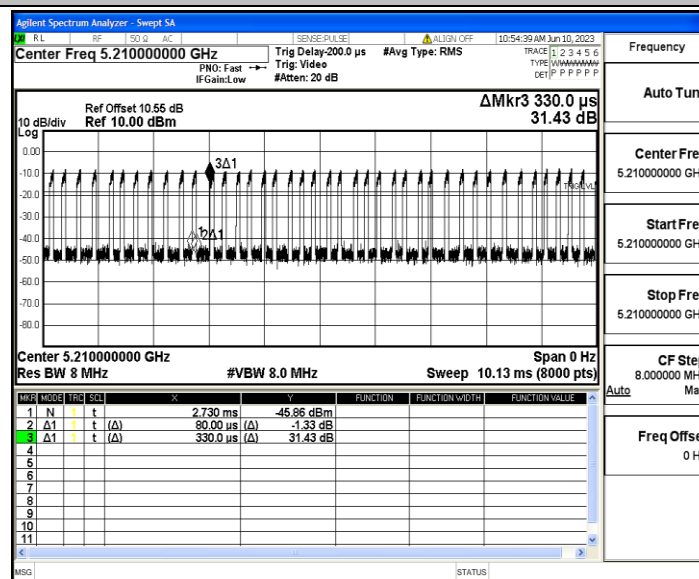
11AC40MIMO_Ant1_5230



11AC40MIMO_Ant2_5230



11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210

