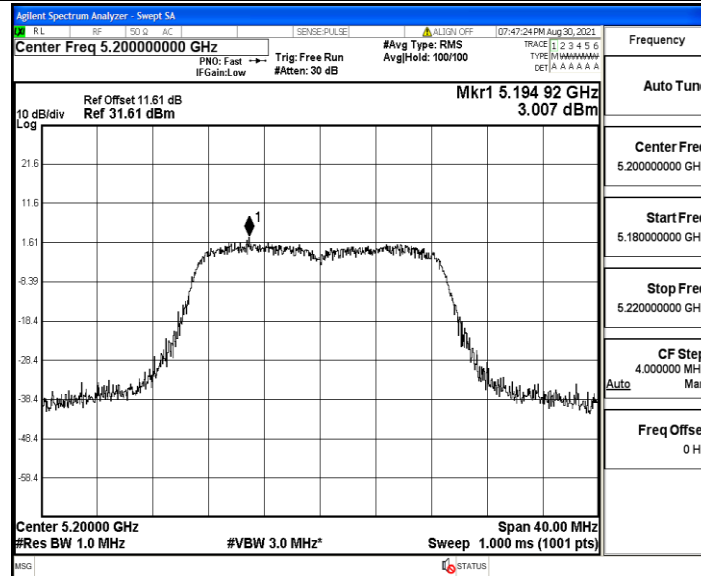
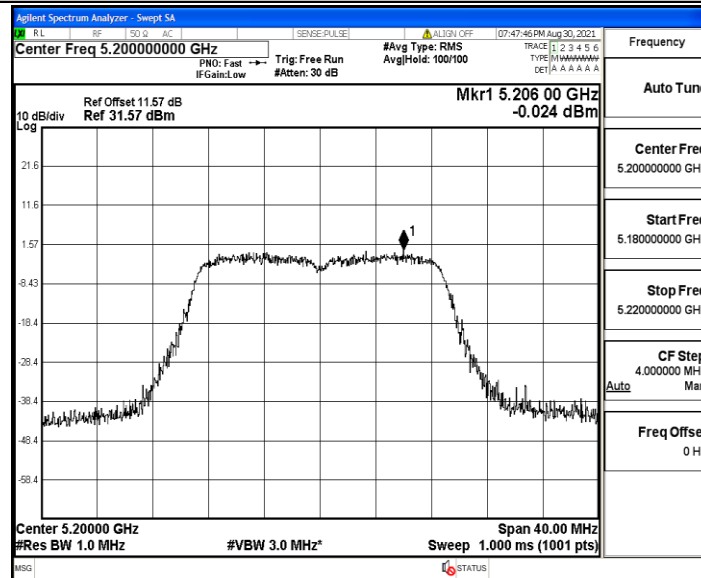
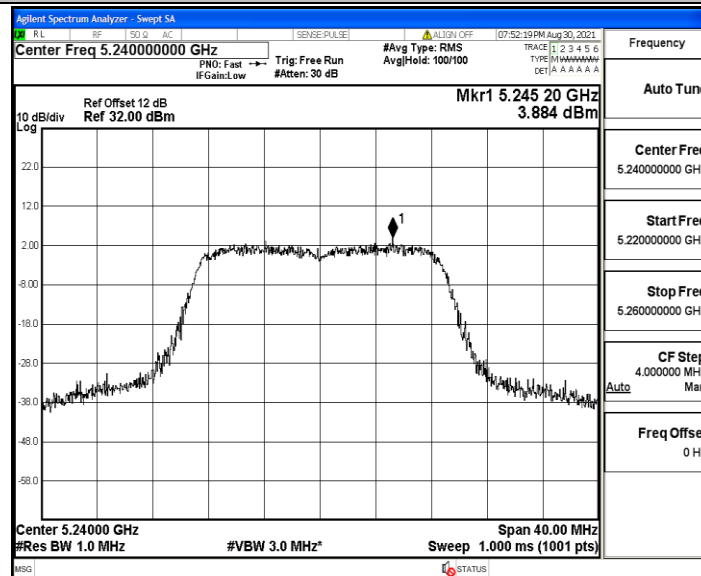




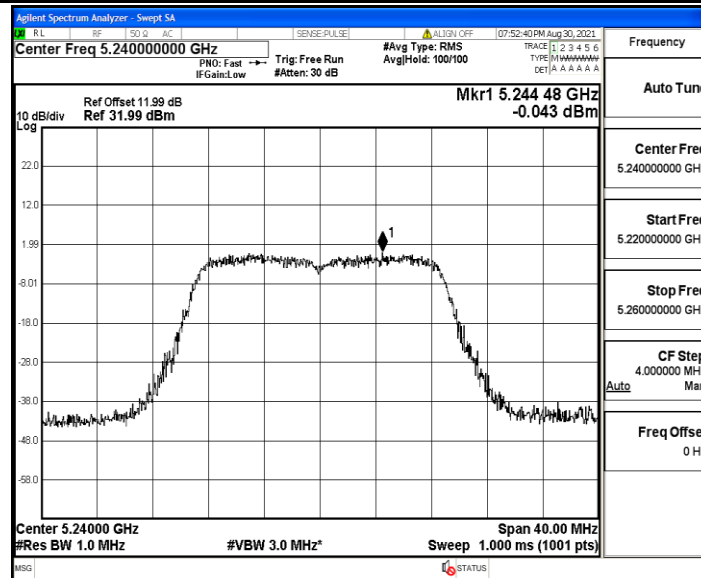
11AC20MIMO_Ant2_5200



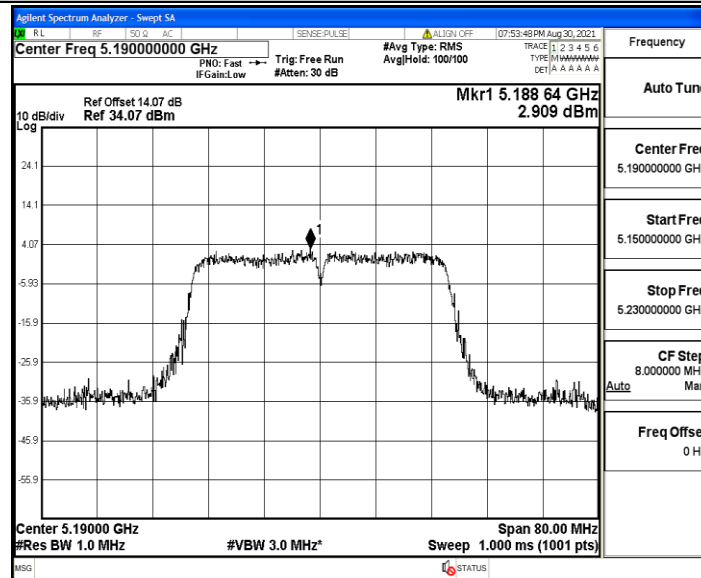
11AC20MIMO_Ant1_5240



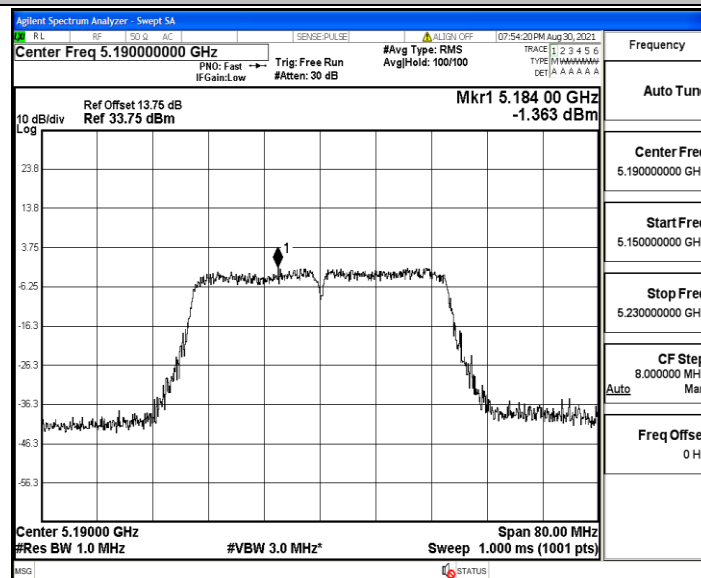
11AC20MIMO_Ant2_5240



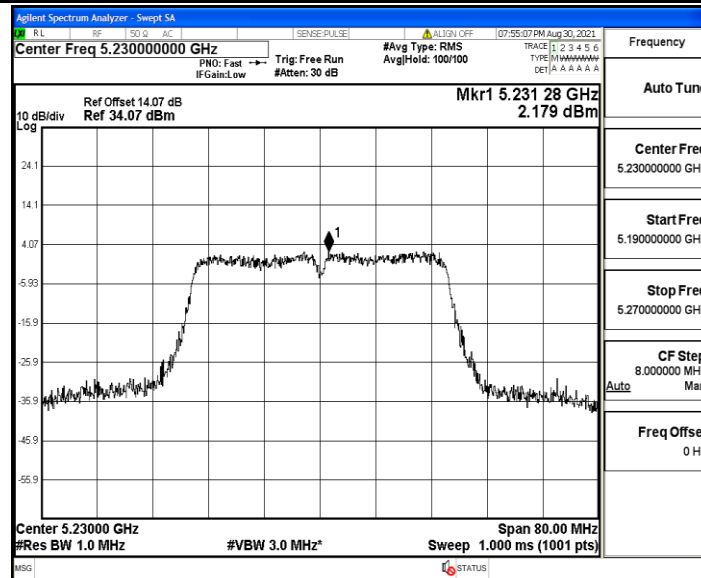
11AC40MIMO_Ant1_5190



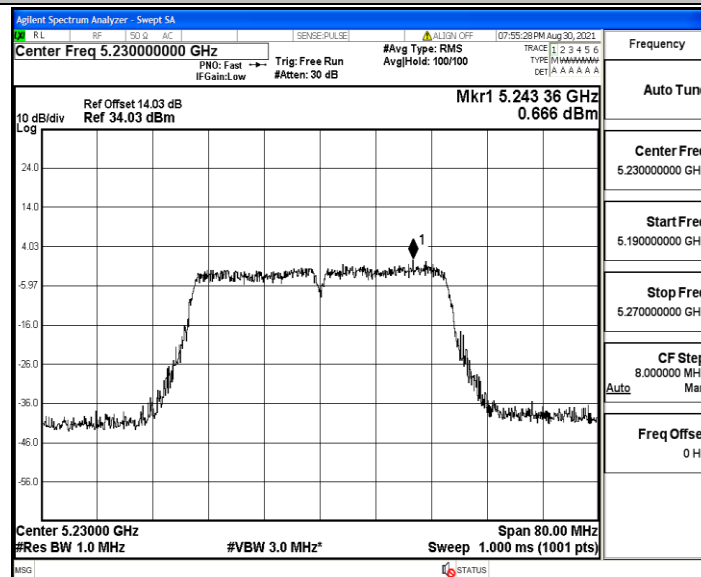
11AC40MIMO_Ant2_5190



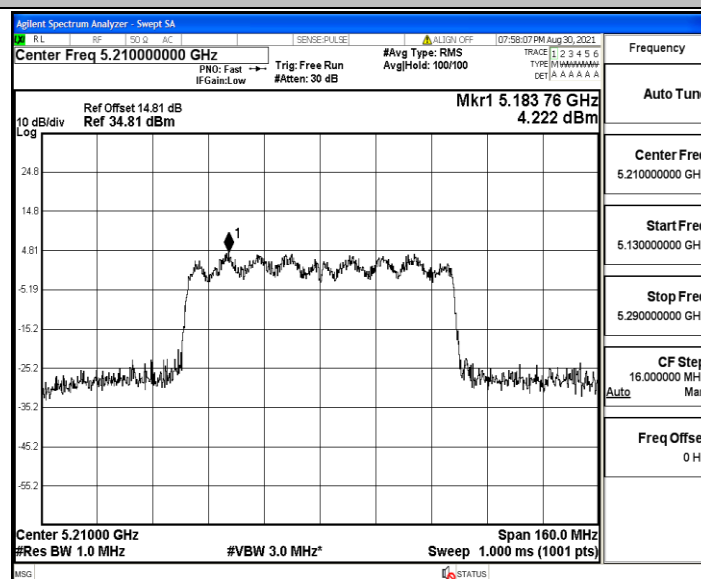
11AC40MIMO_Ant1_5230



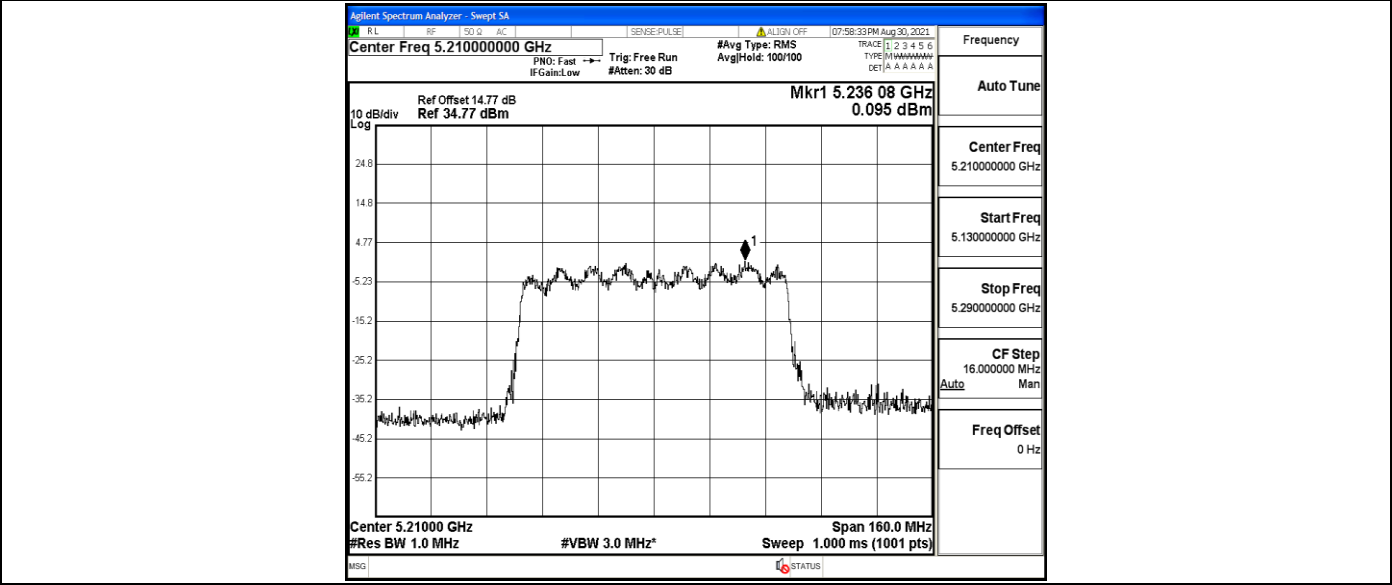
11AC40MIMO_Ant2_5230



11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210



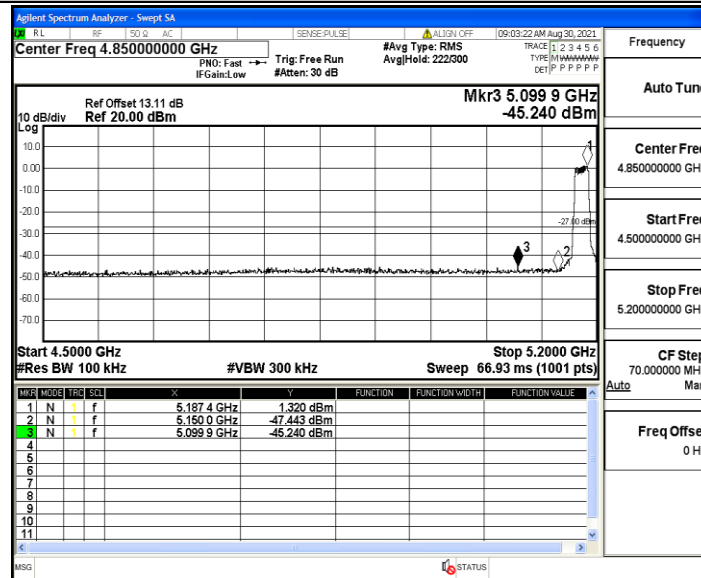
Appendix D: Band edge measurements

Test Result

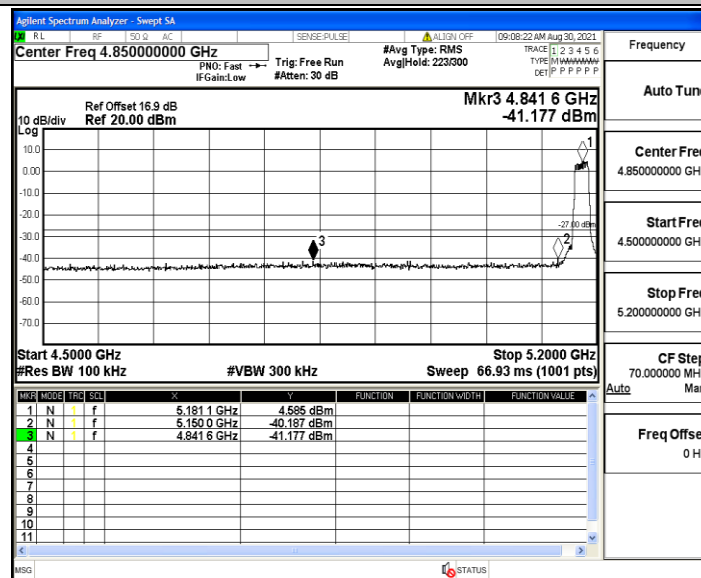
TestMode	Antenna	ChName	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-45.24	≤ -27	PASS
	Ant2	Low	5180	-41.18	≤ -27	PASS
	Ant1	High	5240	-45.14	≤ -27	PASS
	Ant2	High	5240	-40.91	≤ -27	PASS
11N20MIMO	Ant1	Low	5180	-45.35	≤ -27	PASS
	Ant2	Low	5180	-41.22	≤ -27	PASS
	Ant1	High	5240	-43.98	≤ -27	PASS
	Ant2	High	5240	-40.97	≤ -27	PASS
11N40MIMO	Ant1	Low	5190	-44.75	≤ -27	PASS
	Ant2	Low	5190	-40.94	≤ -27	PASS
	Ant1	High	5230	-44.44	≤ -27	PASS
	Ant2	High	5230	-40.98	≤ -27	PASS
11AC20MIMO	Ant1	Low	5180	-45.3	≤ -27	PASS
	Ant2	Low	5180	-41.62	≤ -27	PASS
	Ant1	High	5240	-45.15	≤ -27	PASS
	Ant2	High	5240	-39.71	≤ -27	PASS
11AC40MIMO	Ant1	Low	5190	-43.74	≤ -27	PASS
	Ant2	Low	5190	-40.55	≤ -27	PASS
	Ant1	High	5230	-44.2	≤ -27	PASS
	Ant2	High	5230	-41.53	≤ -27	PASS
11AC80MIMO	Ant1	Low	5210	-44.83	≤ -27	PASS
	Ant2	Low	5210	-39.79	≤ -27	PASS
	Ant1	High	5210	-44.67	≤ -27	PASS
	Ant2	High	5210	-41.08	≤ -27	PASS

Test Graphs

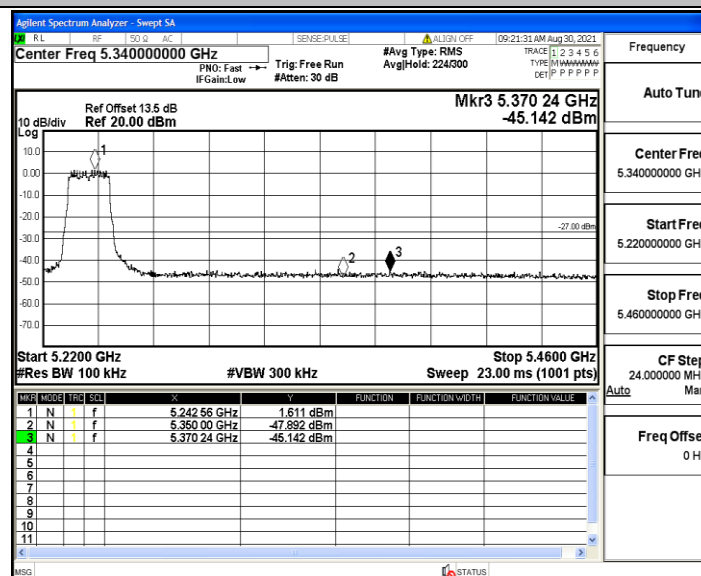
11A_Ant1_Low_5180



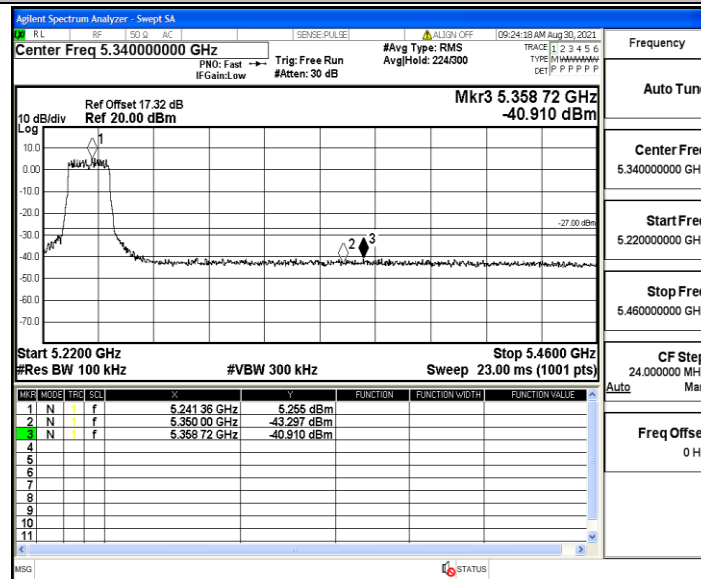
11A_Ant2_Low_5180



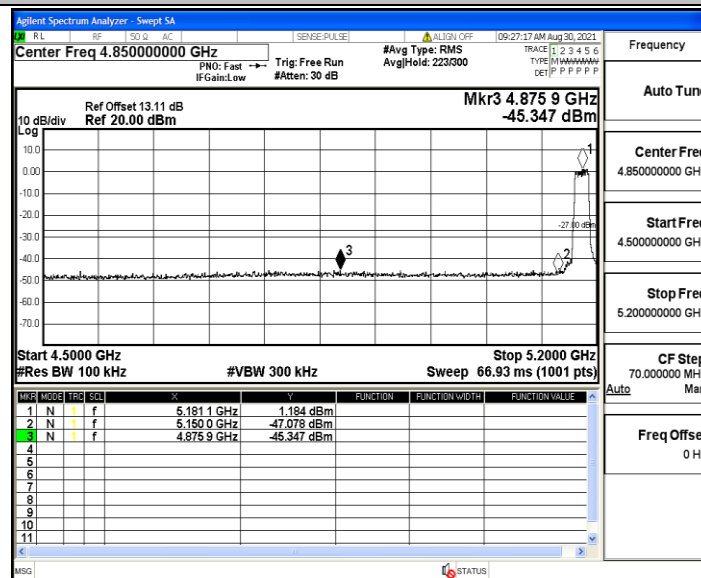
11A_Ant1_High_5240



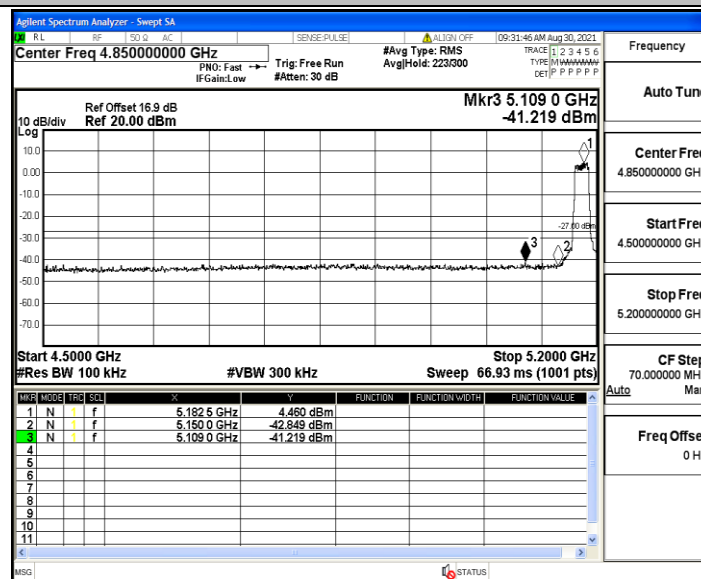
11A_Ant2_High_5240



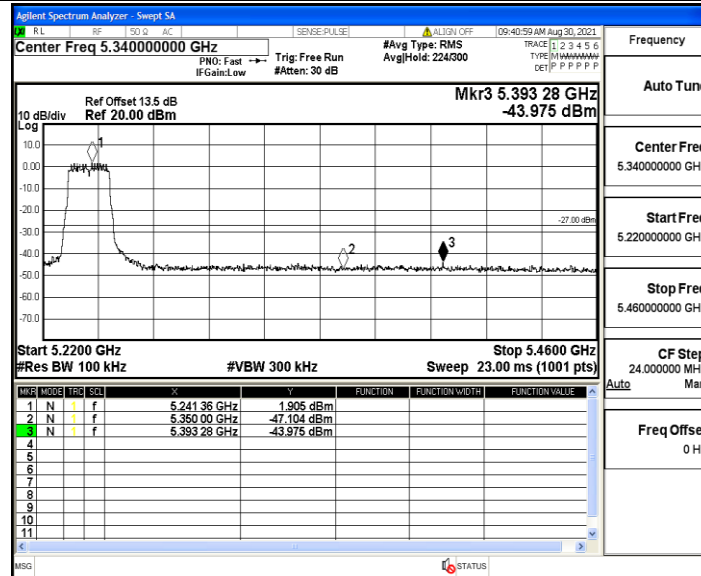
11N20MIMO_Ant1_Low_5180



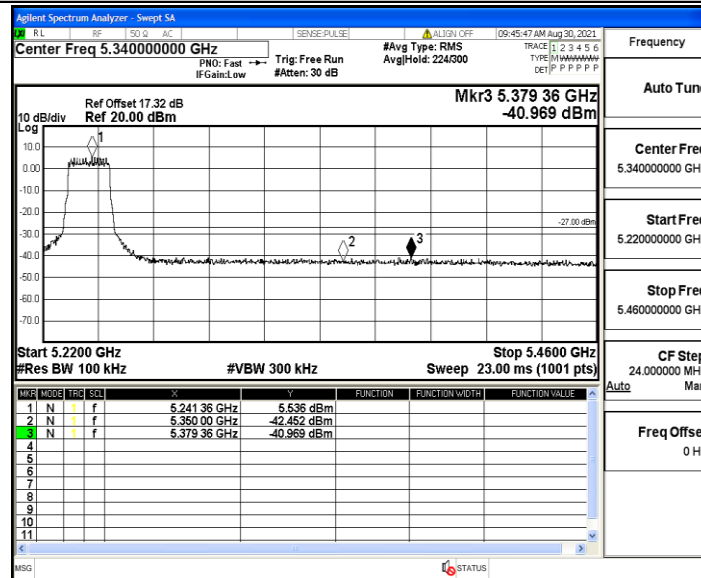
11N20MIMO_Ant2_Low_5180



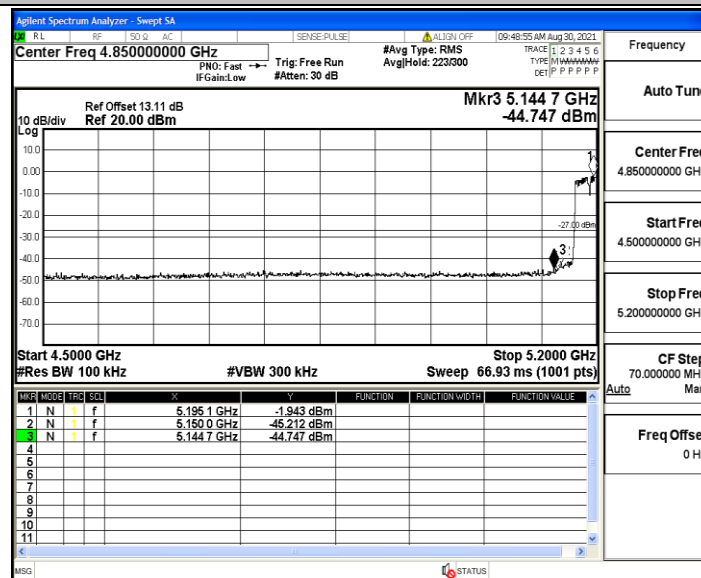
11N20MIMO_Ant1_High_5240



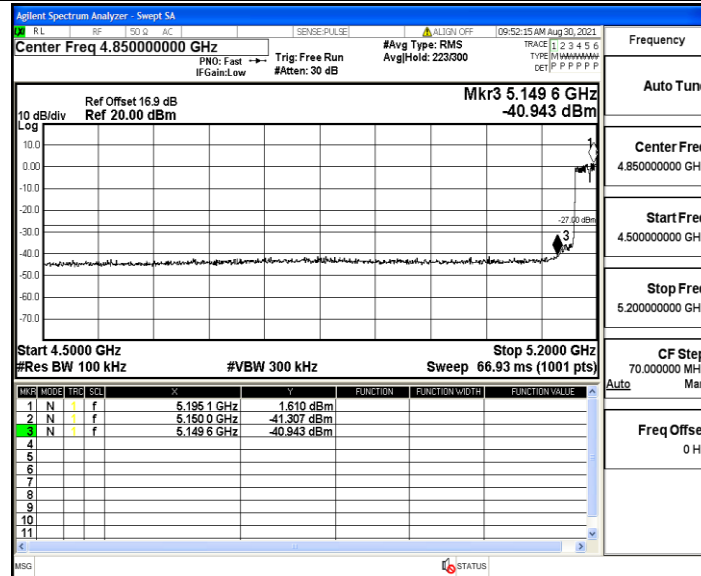
11N20MIMO_Ant2_High_5240



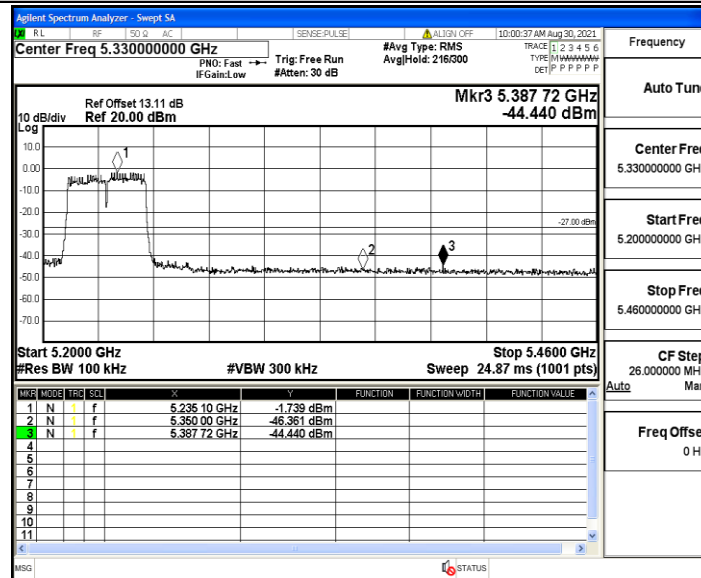
11N40MIMO_Ant1_Low_5190



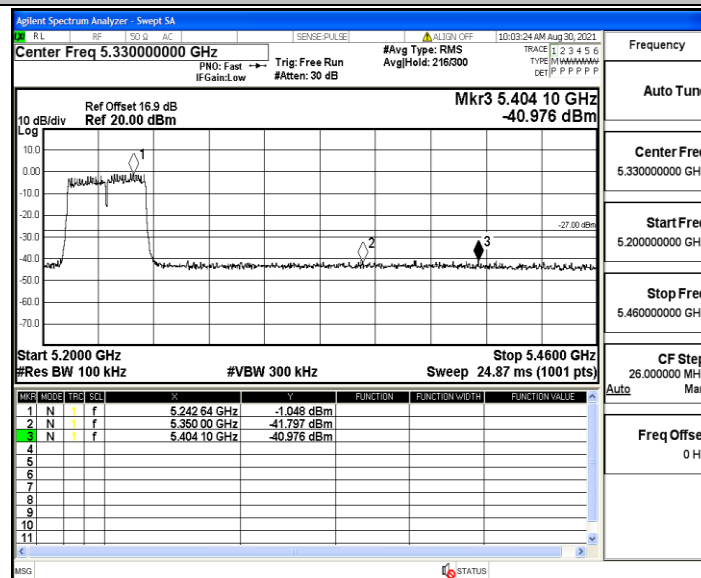
11N40MIMO_Ant2_Low_5190



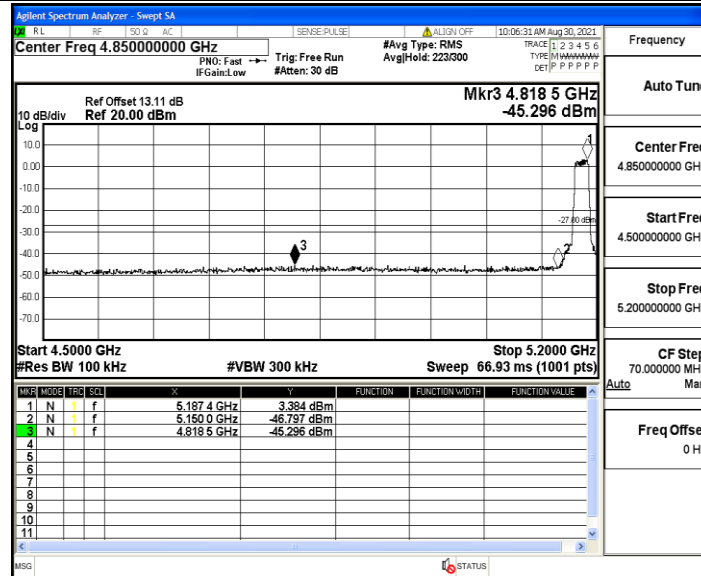
11N40MIMO_Ant1_High_5230



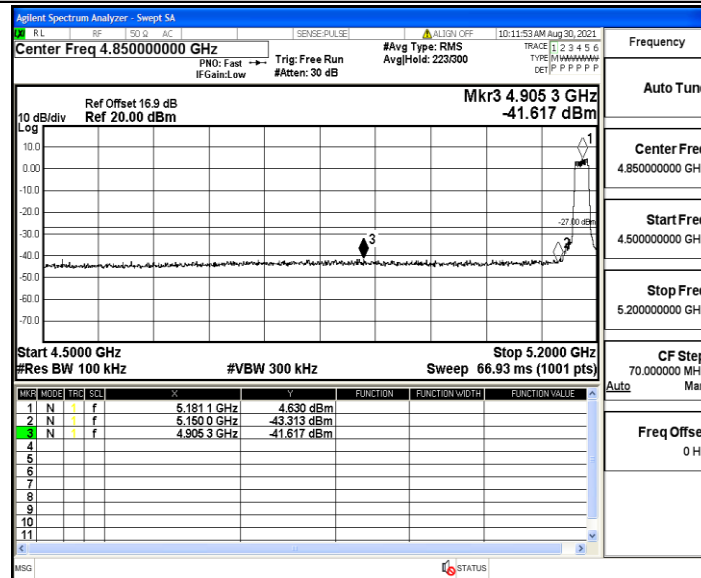
11N40MIMO_Ant2_High_5230



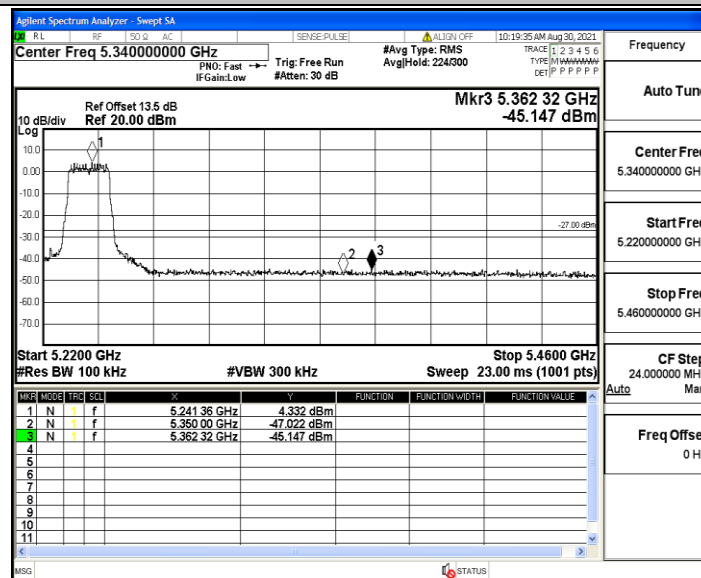
11AC20MIMO_Ant1_Low_5180



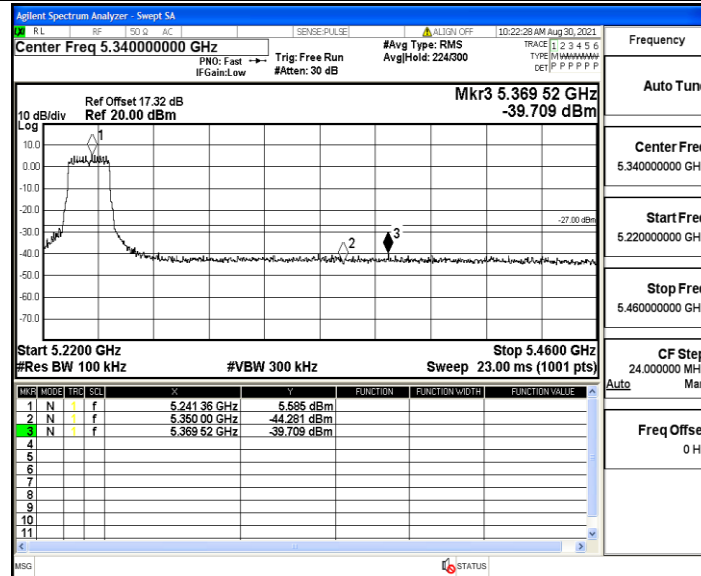
11AC20MIMO_Ant2_Low_5180



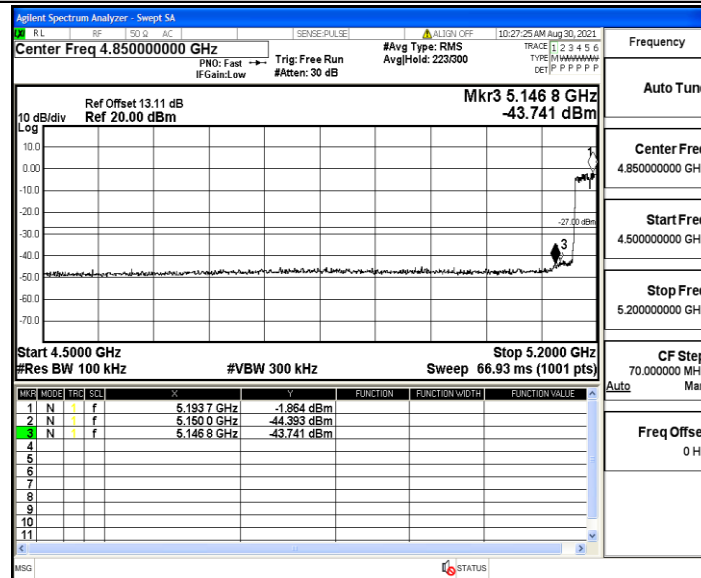
11AC20MIMO_Ant1_High_5240



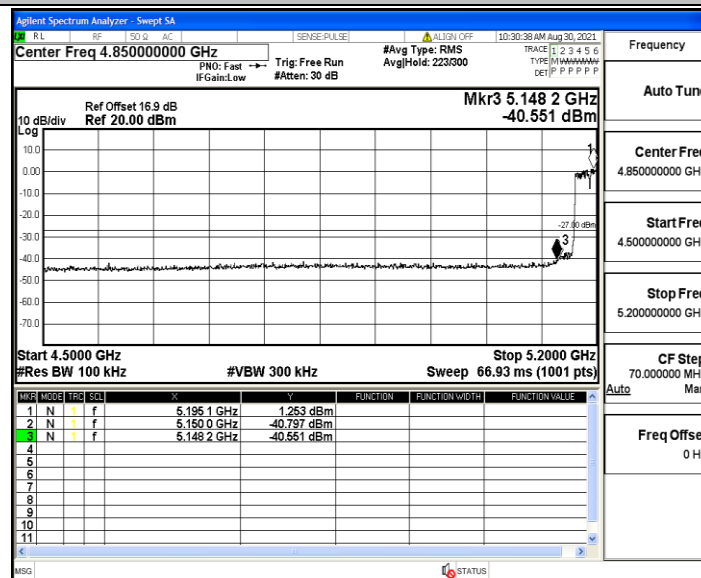
11AC20MIMO_Ant2_High_5240



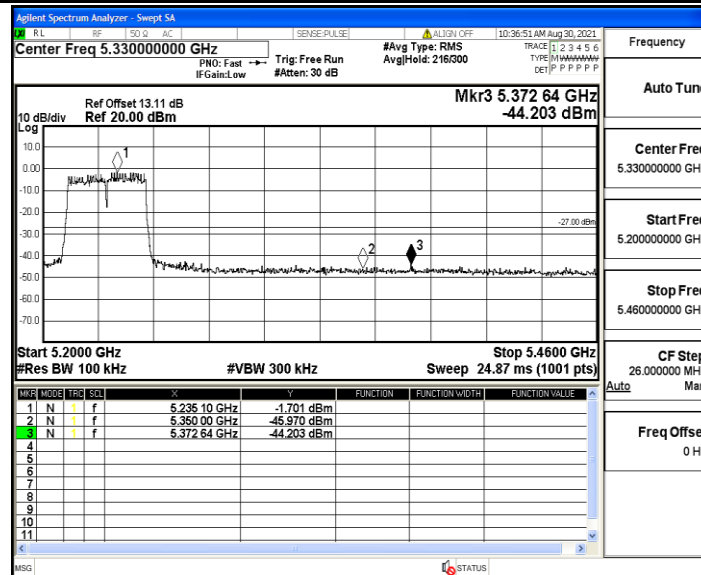
11AC40MIMO_Ant1_Low_5190



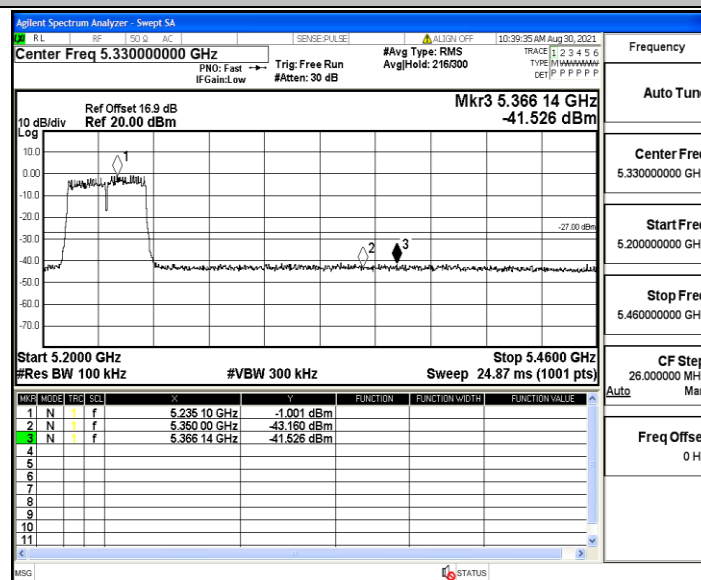
11AC40MIMO_Ant2_Low_5190



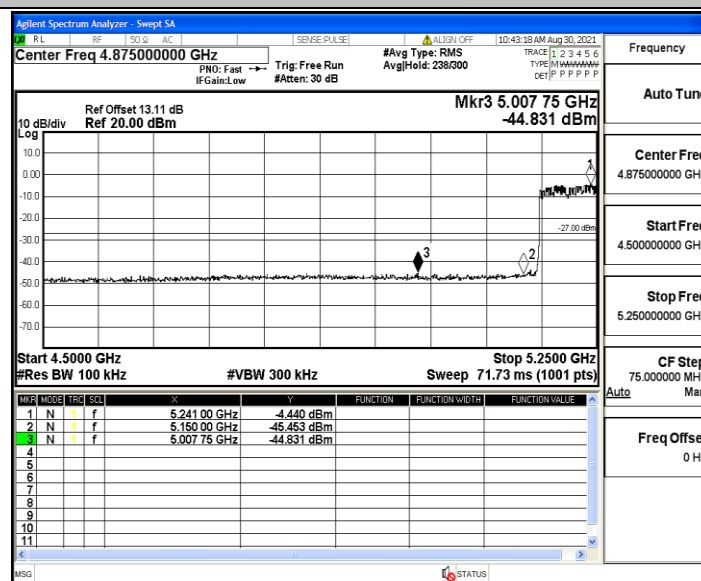
11AC40MIMO_Ant1_High_5230



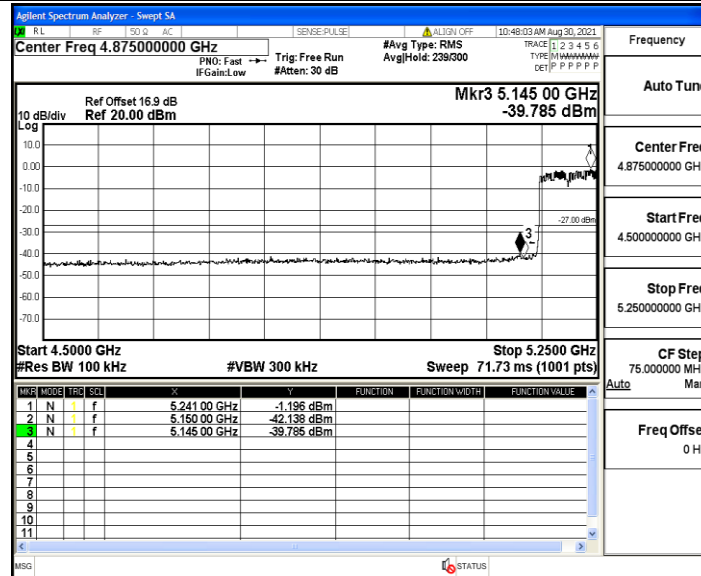
11AC40MIMO_Ant2_High_5230



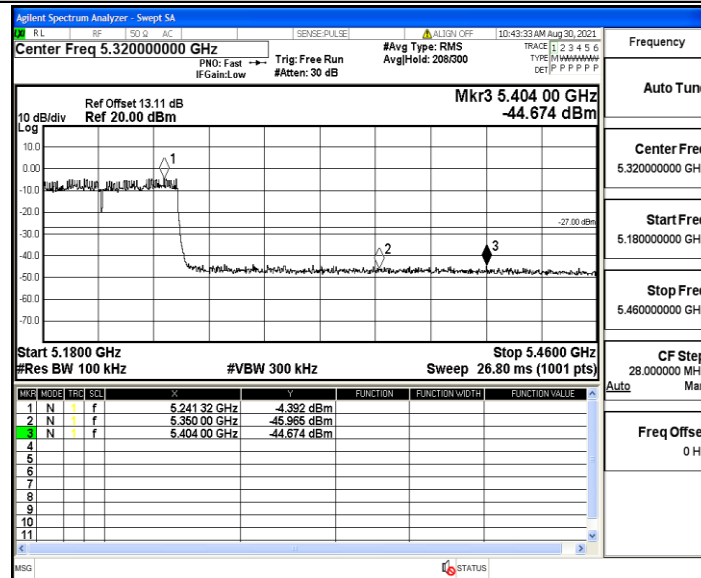
11AC80MIMO_Ant1_Low_5210



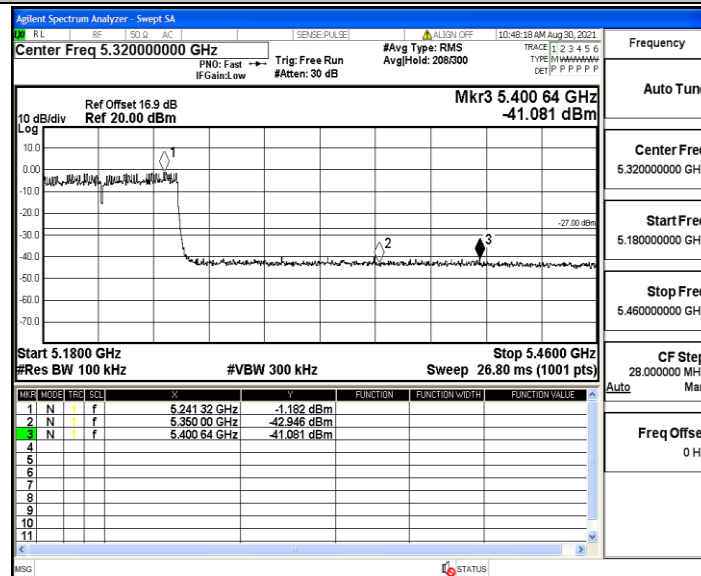
11AC80MIMO_Ant2_Low_5210



11AC80MIMO_Ant1_High_5210



11AC80MIMO_Ant2_High_5210



Appendix E: Frequency Stability

Test Result

Ant1

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5180	20	132	5180.073866	5150 – 5250	PASS
5180	20	108	5180.035451	5150 – 5250	PASS
5180	50	120	5179.975656	5150 – 5250	PASS
5180	40	120	5179.990833	5150 – 5250	PASS
5180	30	120	5180.005304	5150 – 5250	PASS
5180	20	120	5179.905093	5150 – 5250	PASS
5180	10	120	5180.081331	5150 – 5250	PASS
5180	0	120	5180.078678	5150 – 5250	PASS
5180	-10	120	5179.950793	5150 – 5250	PASS
5180	-20	120	5180.074266	5150 – 5250	PASS
5180	-30	120	5179.922133	5150 – 5250	PASS

Ant2

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5180	20	132	5180.018816	5150 – 5250	PASS
5180	20	108	5179.955436	5150 – 5250	PASS
5180	50	120	5180.037040	5150 – 5250	PASS
5180	40	120	5180.080980	5150 – 5250	PASS
5180	30	120	5179.901887	5150 – 5250	PASS
5180	20	120	5180.040593	5150 – 5250	PASS
5180	10	120	5179.916612	5150 – 5250	PASS
5180	0	120	5179.916491	5150 – 5250	PASS
5180	-10	120	5179.920223	5150 – 5250	PASS
5180	-20	120	5179.996292	5150 – 5250	PASS
5180	-30	120	5179.989014	5150 – 5250	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5200	20	132	5199.970491	5150 – 5250	PASS
5200	20	108	5200.002041	5150 – 5250	PASS
5200	50	120	5199.992168	5150 – 5250	PASS
5200	40	120	5200.059212	5150 – 5250	PASS
5200	30	120	5200.078535	5150 – 5250	PASS
5200	20	120	5200.058973	5150 – 5250	PASS
5200	10	120	5199.998934	5150 – 5250	PASS
5200	0	120	5200.024189	5150 – 5250	PASS
5200	-10	120	5199.976397	5150 – 5250	PASS
5200	-20	120	5199.995403	5150 – 5250	PASS
5200	-30	120	5200.079082	5150 – 5250	PASS

Ant2

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5200	20	132	5200.020790	5150 – 5250	PASS
5200	20	108	5200.020551	5150 – 5250	PASS
5200	50	120	5200.075561	5150 – 5250	PASS
5200	40	120	5199.959385	5150 – 5250	PASS
5200	30	120	5199.960723	5150 – 5250	PASS
5200	20	120	5199.957127	5150 – 5250	PASS
5200	10	120	5199.919031	5150 – 5250	PASS
5200	0	120	5200.033051	5150 – 5250	PASS
5200	-10	120	5199.905861	5150 – 5250	PASS
5200	-20	120	5199.930075	5150 – 5250	PASS
5200	-30	120	5199.949115	5150 – 5250	PASS

Ant1

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5240	20	132	5240.048699	5150 – 5250	PASS
5240	20	108	5240.048374	5150 – 5250	PASS
5240	50	120	5239.911819	5150 – 5250	PASS
5240	40	120	5240.086840	5150 – 5250	PASS
5240	30	120	5240.028659	5150 – 5250	PASS
5240	20	120	5240.005716	5150 – 5250	PASS
5240	10	120	5240.066701	5150 – 5250	PASS
5240	0	120	5239.929892	5150 – 5250	PASS
5240	-10	120	5239.936133	5150 – 5250	PASS
5240	-20	120	5240.063693	5150 – 5250	PASS
5240	-30	120	5239.963025	5150 – 5250	PASS

Ant2

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5240	20	132	5239.927031	5150 – 5250	PASS
5240	20	108	5240.089791	5150 – 5250	PASS
5240	50	120	5239.964954	5150 – 5250	PASS
5240	40	120	5239.954593	5150 – 5250	PASS
5240	30	120	5239.986138	5150 – 5250	PASS
5240	20	120	5240.027612	5150 – 5250	PASS
5240	10	120	5240.087134	5150 – 5250	PASS
5240	0	120	5240.088538	5150 – 5250	PASS
5240	-10	120	5239.991238	5150 – 5250	PASS
5240	-20	120	5240.082230	5150 – 5250	PASS
5240	-30	120	5240.010042	5150 – 5250	PASS

Ant1

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5190	20	132	5189.960542	5150 – 5250	PASS
5190	20	108	5190.027093	5150 – 5250	PASS
5190	50	120	5189.924486	5150 – 5250	PASS
5190	40	120	5189.978865	5150 – 5250	PASS
5190	30	120	5189.935480	5150 – 5250	PASS
5190	20	120	5189.907647	5150 – 5250	PASS
5190	10	120	5190.075257	5150 – 5250	PASS
5190	0	120	5189.922186	5150 – 5250	PASS
5190	-10	120	5189.955891	5150 – 5250	PASS
5190	-20	120	5190.095540	5150 – 5250	PASS
5190	-30	120	5189.937932	5150 – 5250	PASS

Ant2

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5190	20	132	5189.983541	5150 – 5250	PASS
5190	20	108	5190.053858	5150 – 5250	PASS
5190	50	120	5189.908893	5150 – 5250	PASS
5190	40	120	5189.933598	5150 – 5250	PASS
5190	30	120	5189.988531	5150 – 5250	PASS
5190	20	120	5190.092594	5150 – 5250	PASS
5190	10	120	5190.055379	5150 – 5250	PASS
5190	0	120	5190.039353	5150 – 5250	PASS
5190	-10	120	5190.064199	5150 – 5250	PASS
5190	-20	120	5190.077283	5150 – 5250	PASS
5190	-30	120	5190.037614	5150 – 5250	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5230	20	132	5229.980122	5150 – 5250	PASS
5230	20	108	5230.097791	5150 – 5250	PASS
5230	50	120	5230.057263	5150 – 5250	PASS
5230	40	120	5230.069624	5150 – 5250	PASS
5230	30	120	5230.059338	5150 – 5250	PASS
5230	20	120	5230.057333	5150 – 5250	PASS
5230	10	120	5229.912581	5150 – 5250	PASS
5230	0	120	5230.043708	5150 – 5250	PASS
5230	-10	120	5230.062987	5150 – 5250	PASS
5230	-20	120	5230.016366	5150 – 5250	PASS
5230	-30	120	5229.923542	5150 – 5250	PASS

Ant2

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5230	20	132	5229.903311	5150 – 5250	PASS
5230	20	108	5230.074923	5150 – 5250	PASS
5230	50	120	5229.954262	5150 – 5250	PASS
5230	40	120	5229.905362	5150 – 5250	PASS
5230	30	120	5230.075595	5150 – 5250	PASS
5230	20	120	5230.039682	5150 – 5250	PASS
5230	10	120	5229.937780	5150 – 5250	PASS
5230	0	120	5229.940692	5150 – 5250	PASS
5230	-10	120	5230.066174	5150 – 5250	PASS
5230	-20	120	5230.022185	5150 – 5250	PASS
5230	-30	120	5230.023591	5150 – 5250	PASS

Ant1

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5210	20	132	5210.065221	5150 – 5250	PASS
5210	20	108	5210.033188	5150 – 5250	PASS
5210	50	120	5209.981090	5150 – 5250	PASS
5210	40	120	5210.031372	5150 – 5250	PASS
5210	30	120	5209.974165	5150 – 5250	PASS
5210	20	120	5210.090891	5150 – 5250	PASS
5210	10	120	5209.999510	5150 – 5250	PASS
5210	0	120	5209.989403	5150 – 5250	PASS
5210	-10	120	5209.981721	5150 – 5250	PASS
5210	-20	120	5210.009896	5150 – 5250	PASS
5210	-30	120	5210.027493	5150 – 5250	PASS

Ant2

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5210	20	132	5210.012337	5150 – 5250	PASS
5210	20	108	5209.933505	5150 – 5250	PASS
5210	50	120	5209.998630	5150 – 5250	PASS
5210	40	120	5209.992284	5150 – 5250	PASS
5210	30	120	5209.902360	5150 – 5250	PASS
5210	20	120	5210.003533	5150 – 5250	PASS
5210	10	120	5209.926397	5150 – 5250	PASS
5210	0	120	5209.958078	5150 – 5250	PASS
5210	-10	120	5209.930212	5150 – 5250	PASS
5210	-20	120	5210.061029	5150 – 5250	PASS
5210	-30	120	5210.070095	5150 – 5250	PASS

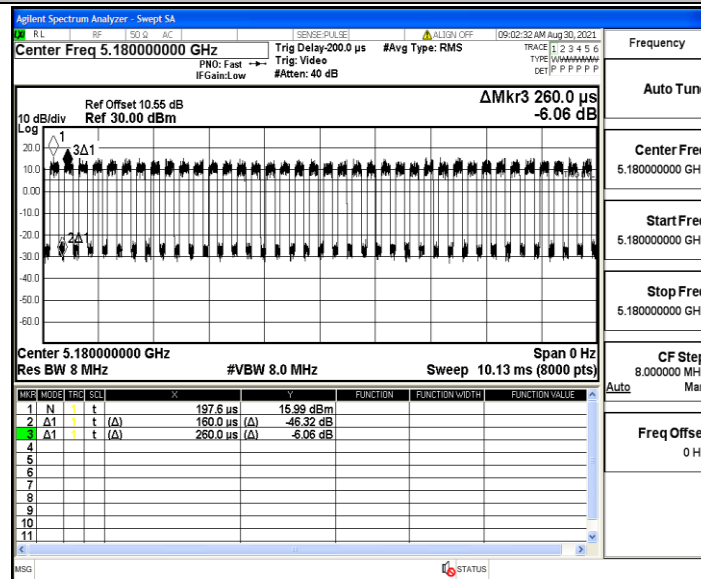
Appendix F: Duty Cycle

Test Result

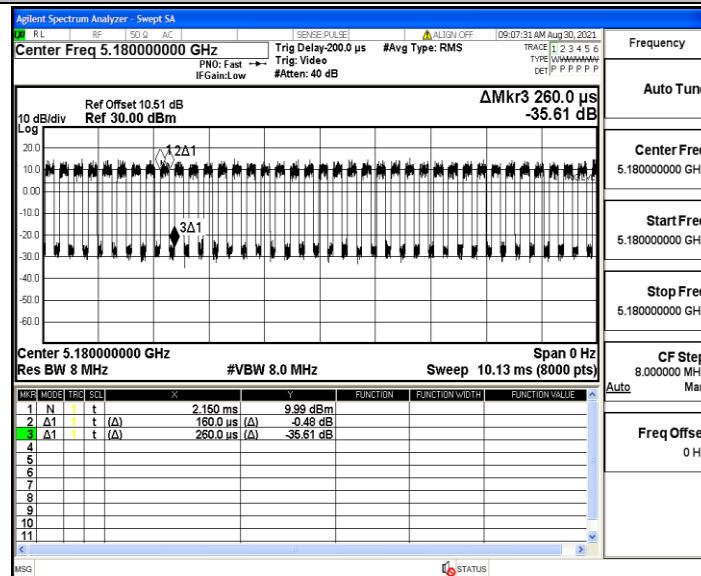
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/B [KHz]
11A	Ant1	5180	0.16	0.26	61.54	3.8
	Ant2	5180	0.16	0.26	61.54	3.8
	Ant1	5200	0.17	0.27	62.96	3.7
	Ant2	5200	0.17	0.27	62.96	3.7
	Ant1	5240	0.16	0.26	61.54	3.8
	Ant2	5240	0.16	0.26	61.54	3.8
11N20MIMO	Ant1	5180	0.16	0.26	61.54	3.8
	Ant2	5180	0.16	0.26	61.54	3.8
	Ant1	5200	0.16	0.26	61.54	3.8
	Ant2	5200	0.16	0.26	61.54	3.8
	Ant1	5240	0.16	0.26	61.54	3.8
	Ant2	5240	0.17	0.27	62.96	3.7
11N40MIMO	Ant1	5190	0.10	0.20	50.00	5
	Ant2	5190	0.10	0.20	50.00	5
	Ant1	5230	0.10	0.20	50.00	5
	Ant2	5230	0.10	0.20	50.00	5
11AC20MIMO	Ant1	5180	0.36	0.46	78.26	2.2
	Ant2	5180	0.36	0.46	78.26	2.2
	Ant1	5200	0.36	0.46	78.26	2.2
	Ant2	5200	0.36	0.46	78.26	2.2
	Ant1	5240	0.36	0.46	78.26	2.2
	Ant2	5240	0.36	0.46	78.26	2.2
11AC40MIMO	Ant1	5190	0.08	0.18	44.44	5.6
	Ant2	5190	0.09	0.19	47.37	5.3
	Ant1	5230	0.08	0.18	44.44	5.6
	Ant2	5230	0.08	0.18	44.44	5.6
11AC80MIMO	Ant1	5210	0.06	0.16	37.50	6.3
	Ant2	5210	0.06	0.16	37.50	6.3

Test Graphs

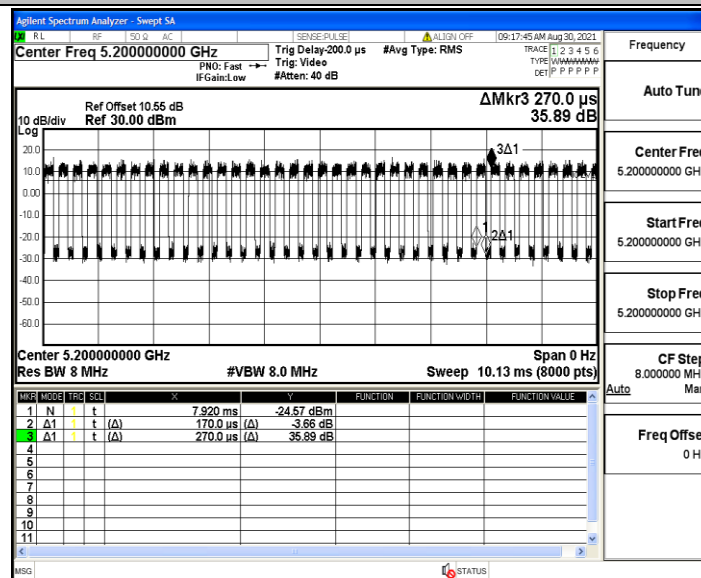
11A_Ant1_5180



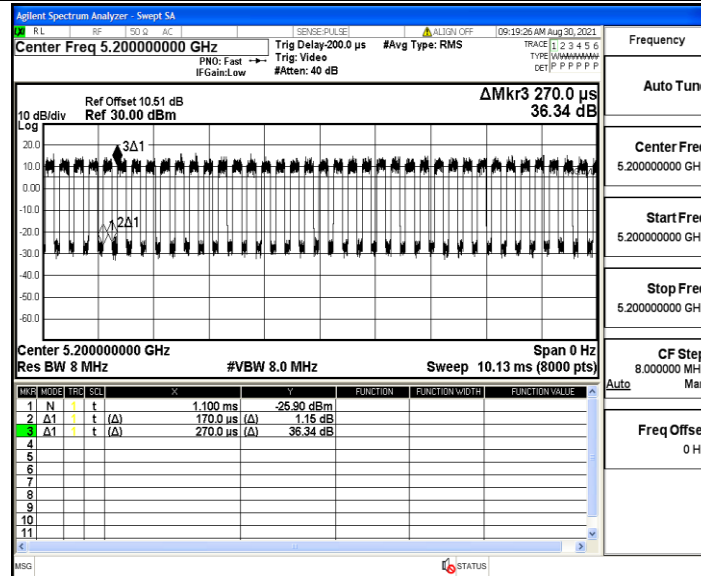
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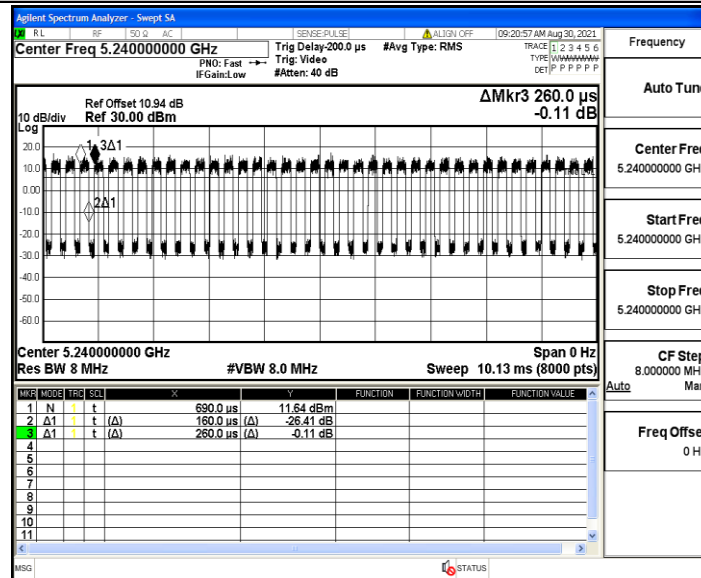
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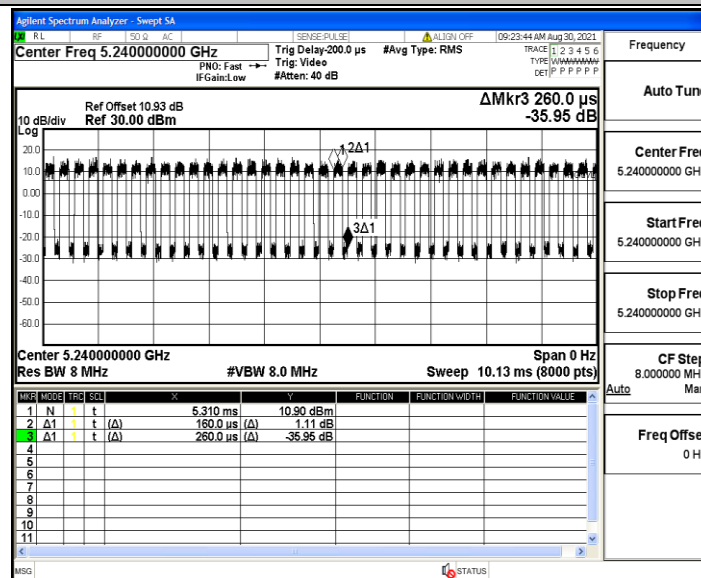
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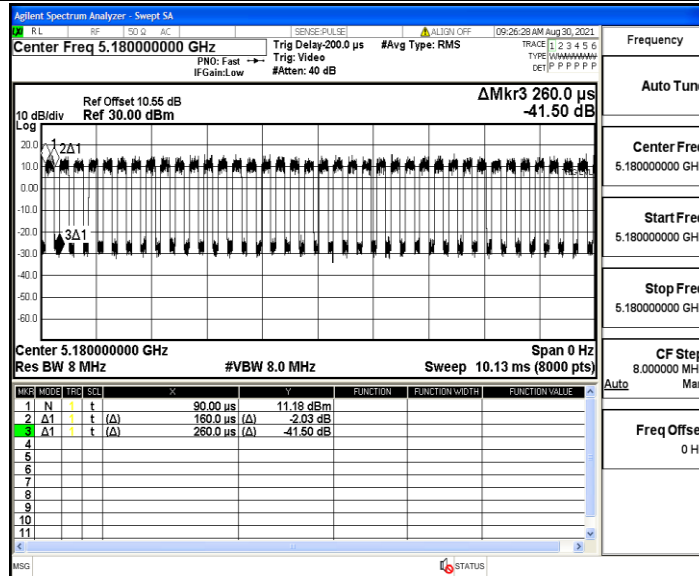
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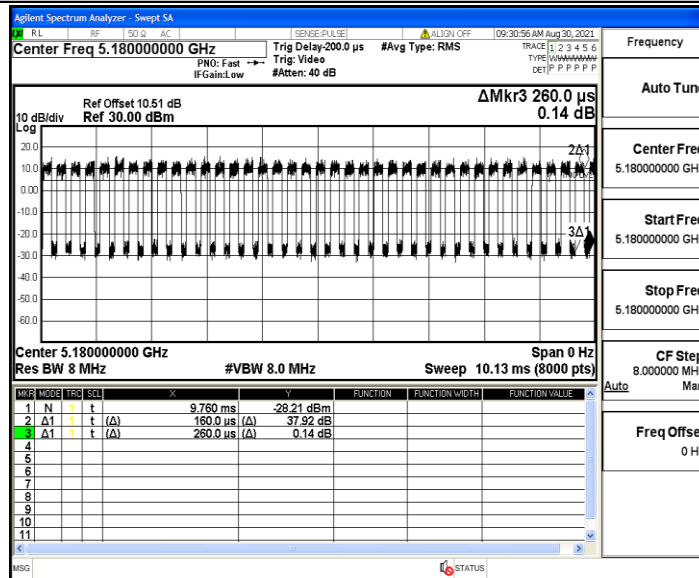
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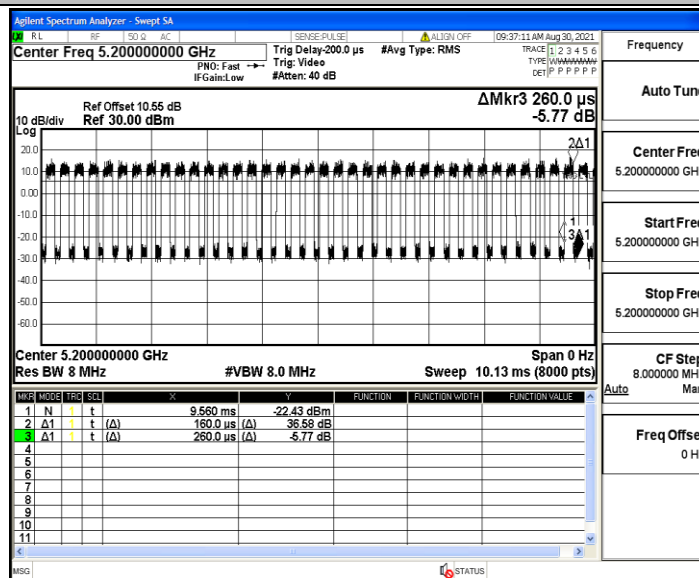
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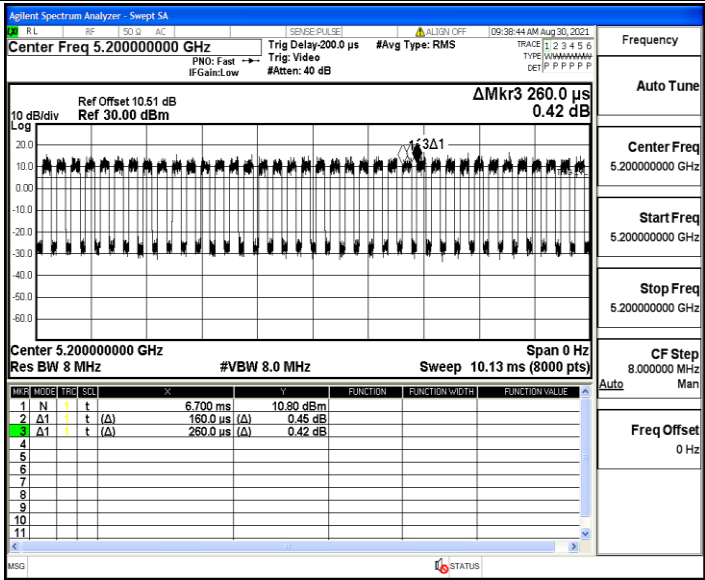
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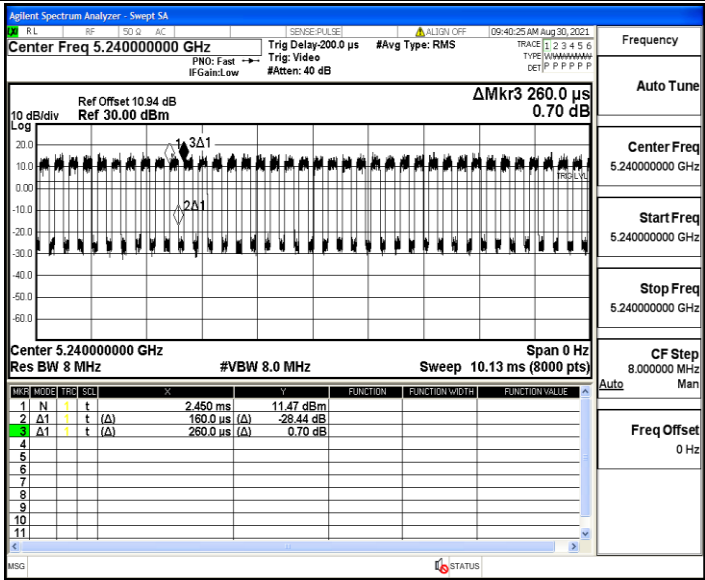
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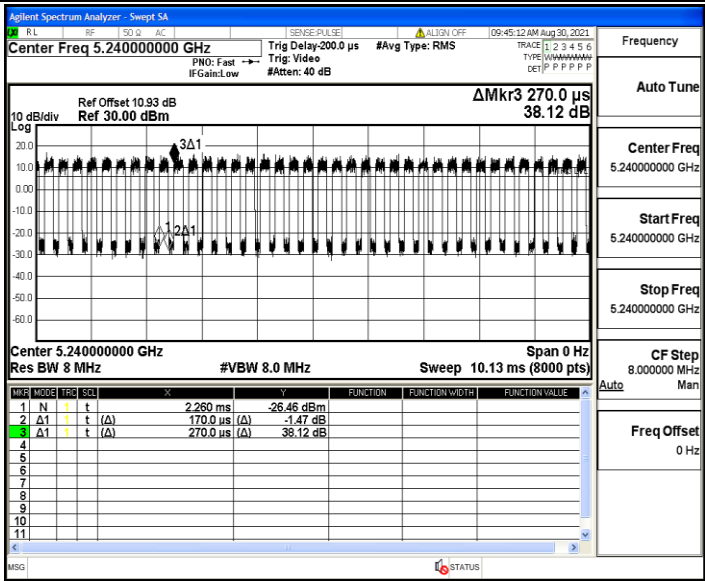
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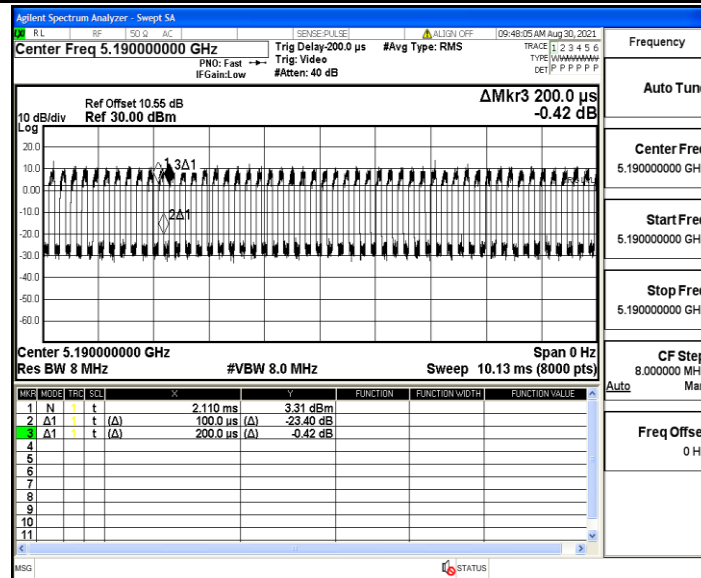
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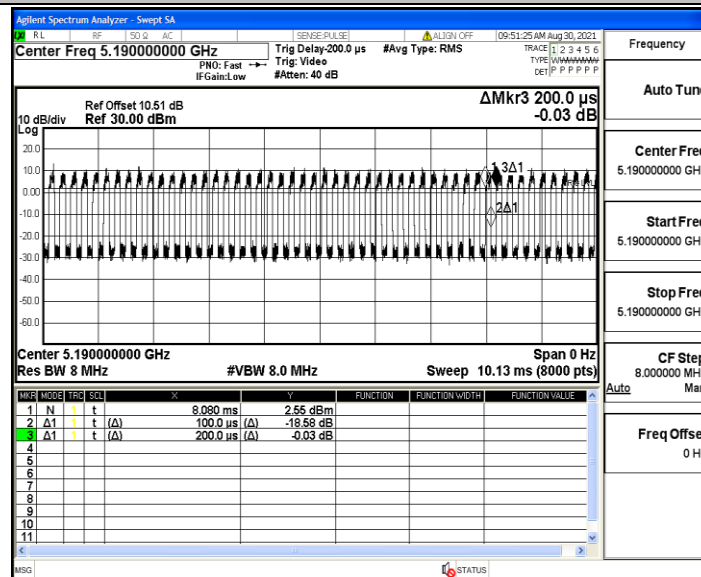
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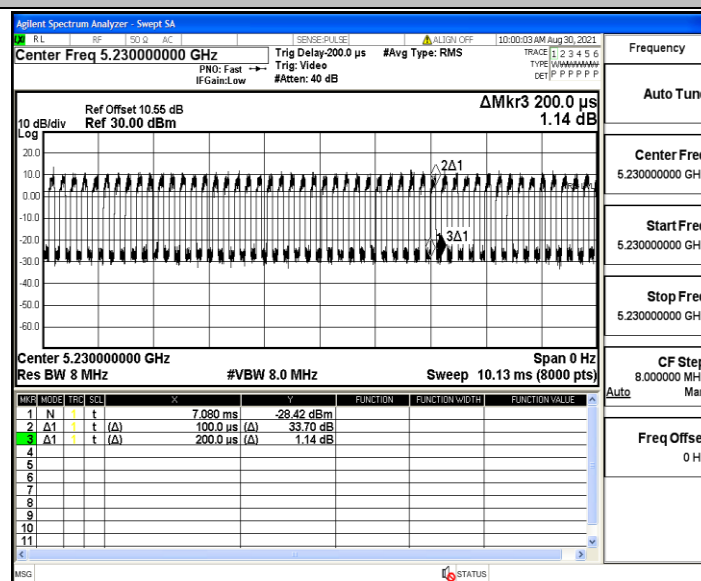
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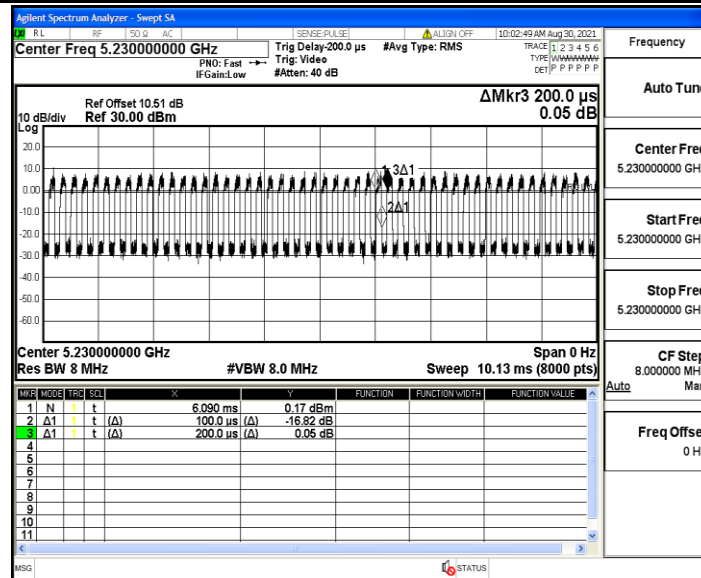
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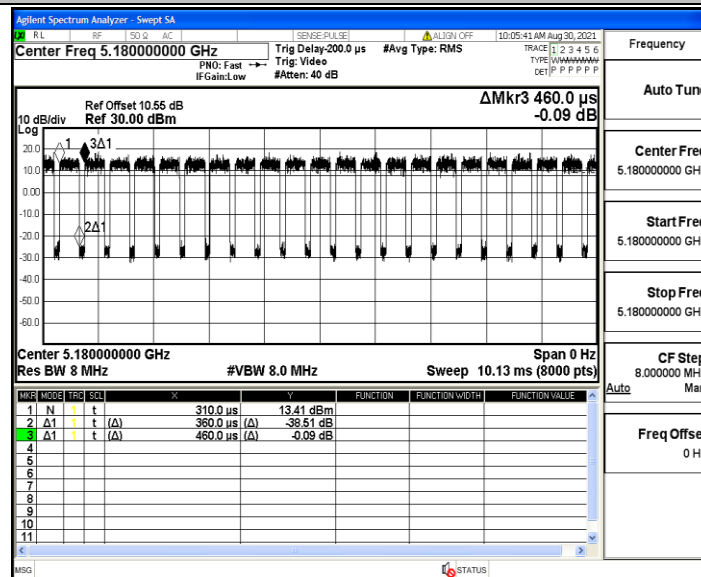
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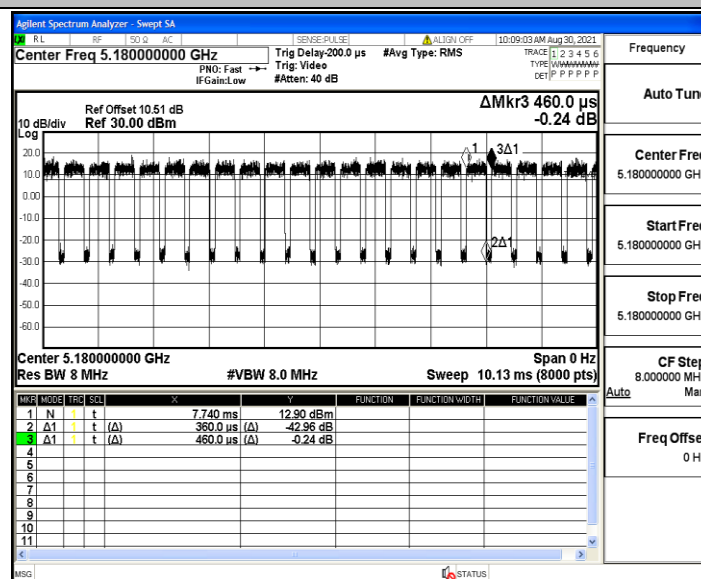
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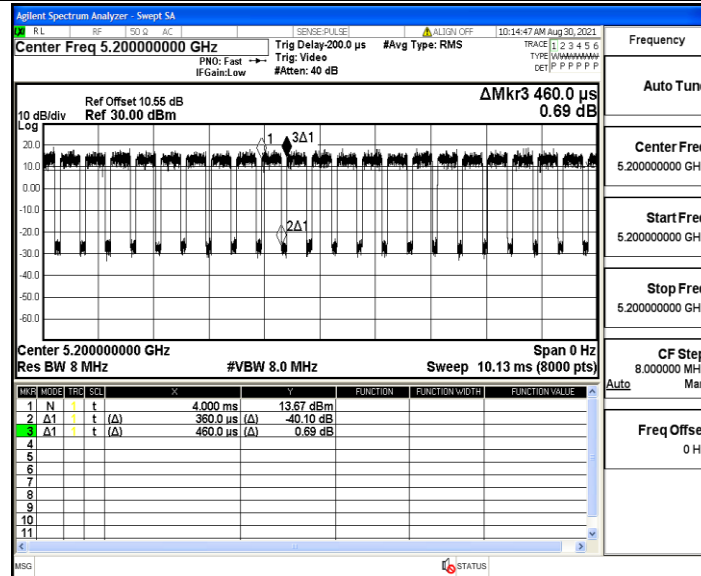
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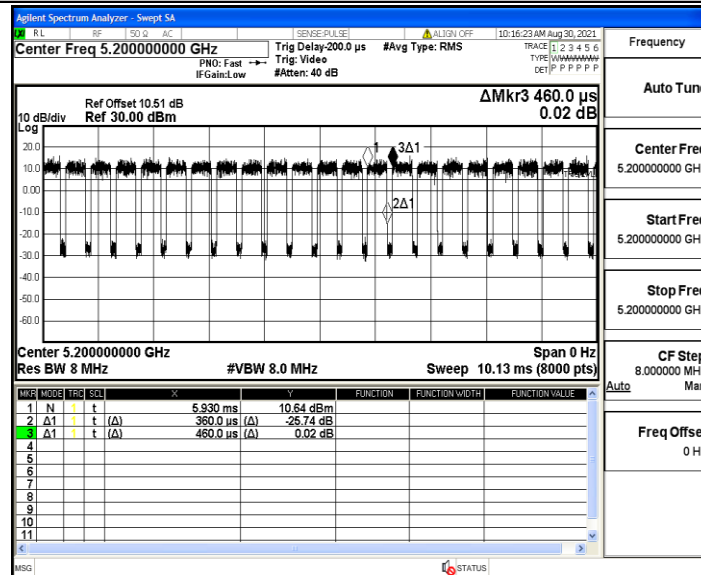
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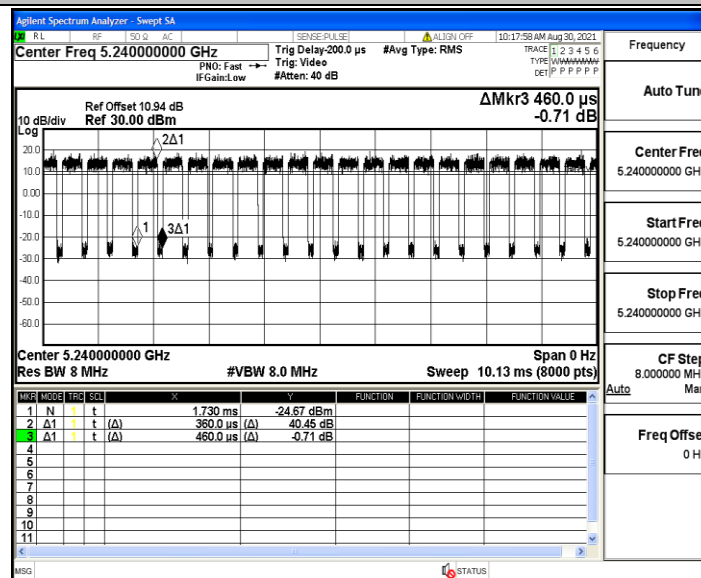
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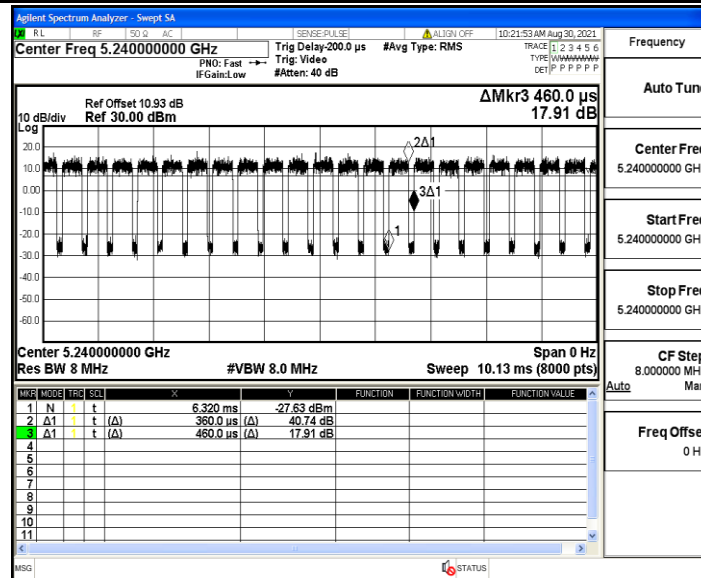
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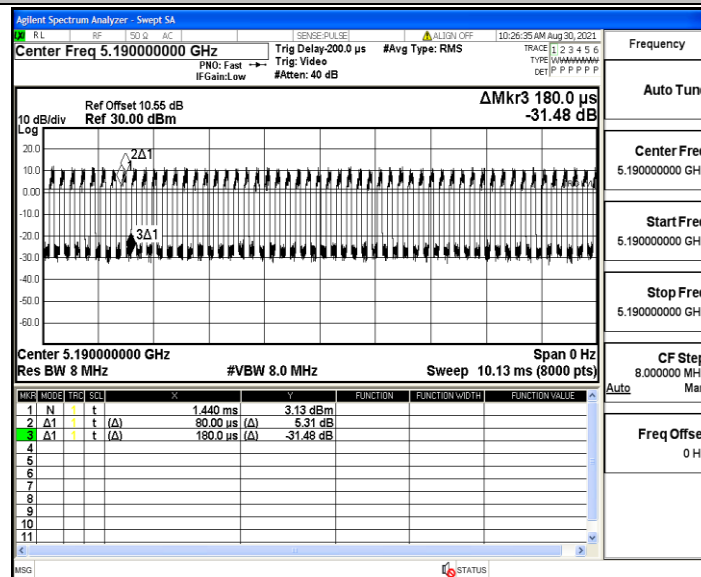
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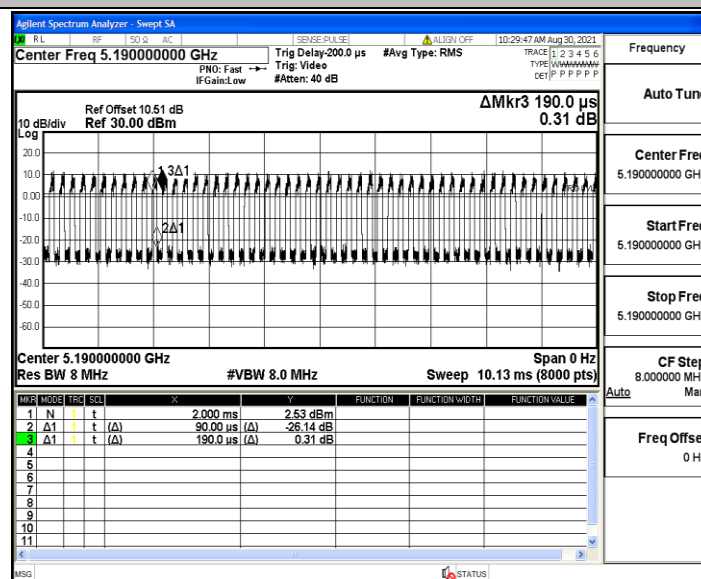
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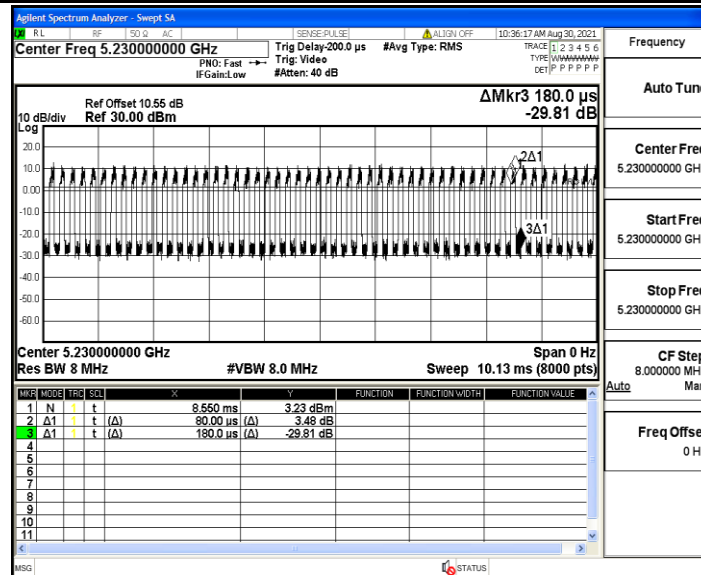
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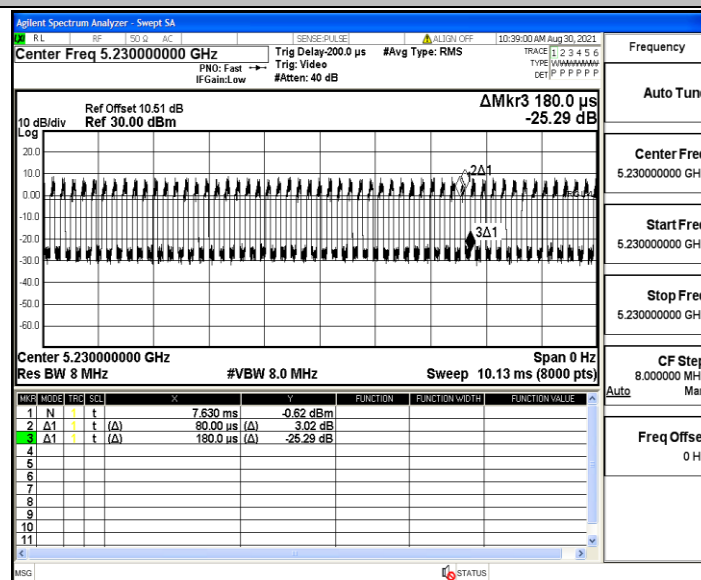
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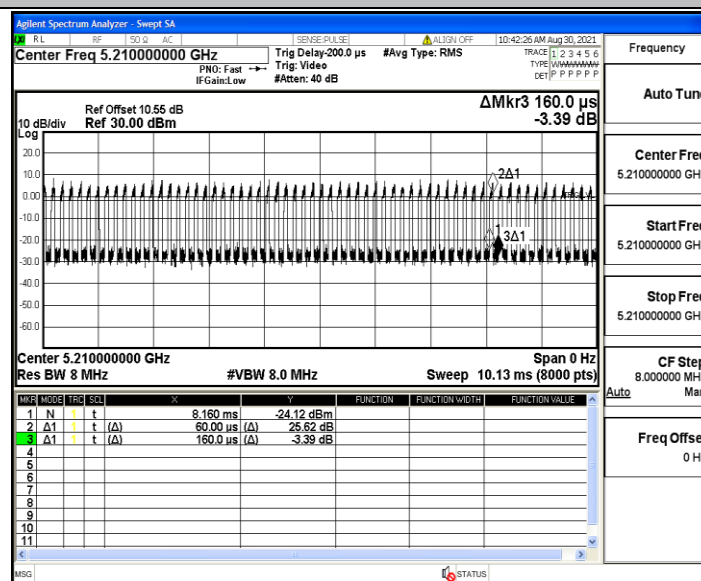
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11AC40MIMO_Ant2_5230



11AC80MIMO_Ant1_5210



11AC80MIMO_Ant2_5210

