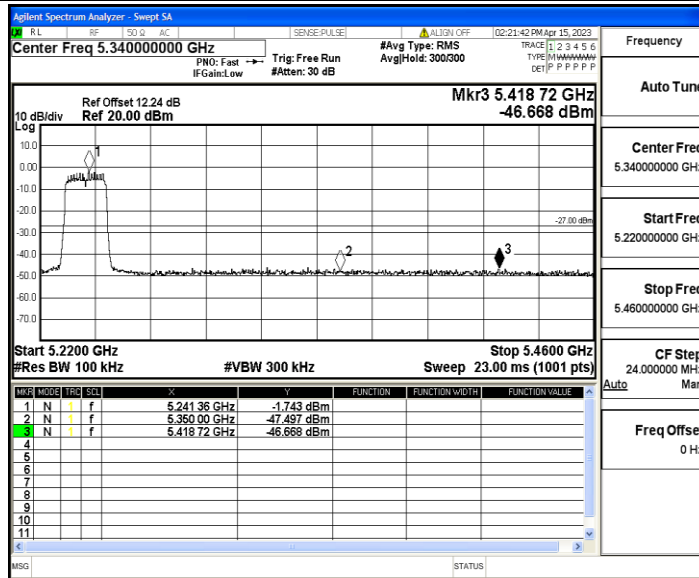
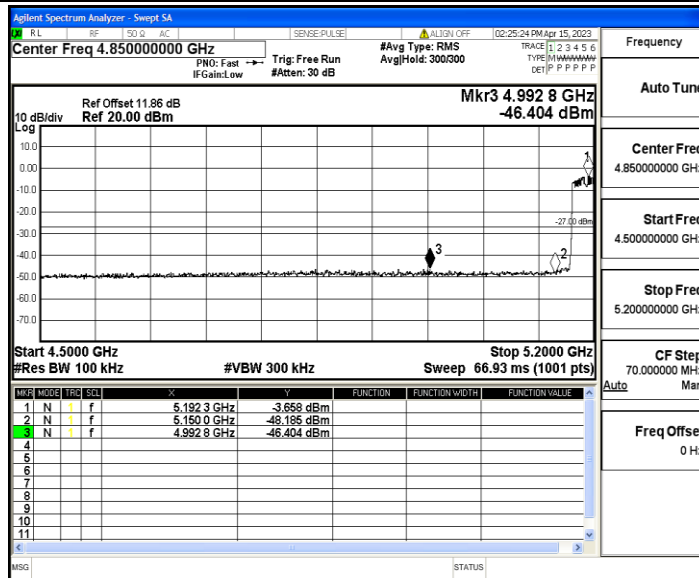


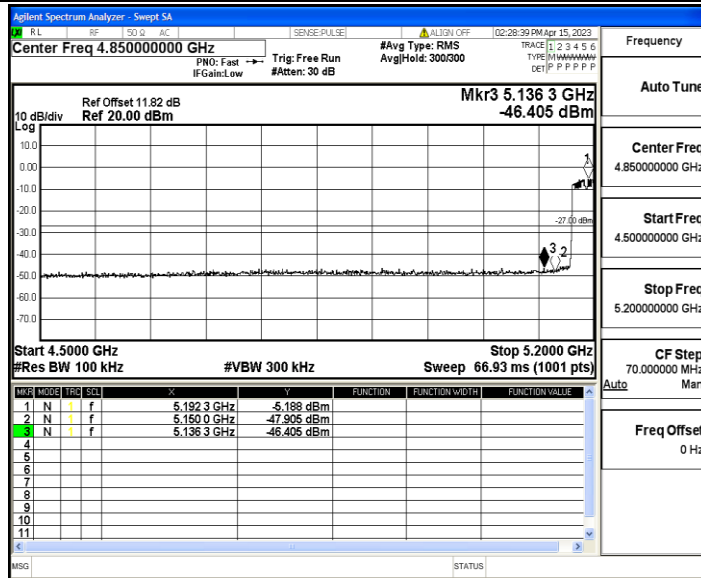
11N20MIMO\_Ant1\_High\_5240



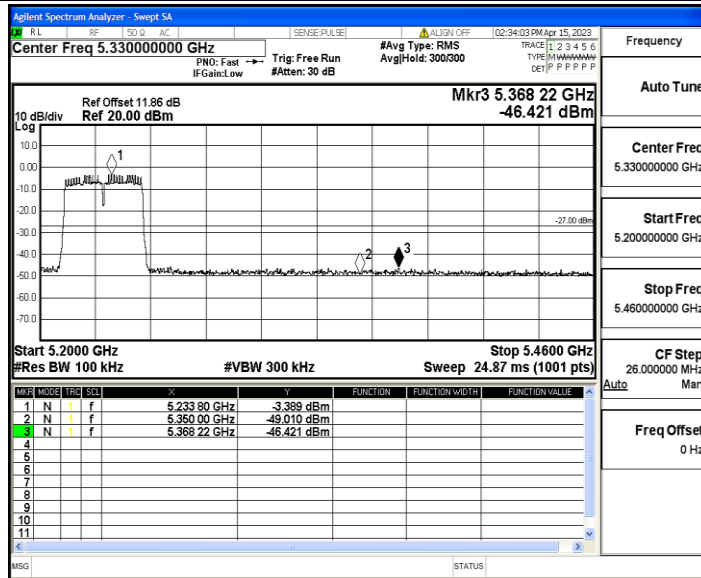
11N20MIMO\_Ant2\_High\_5240



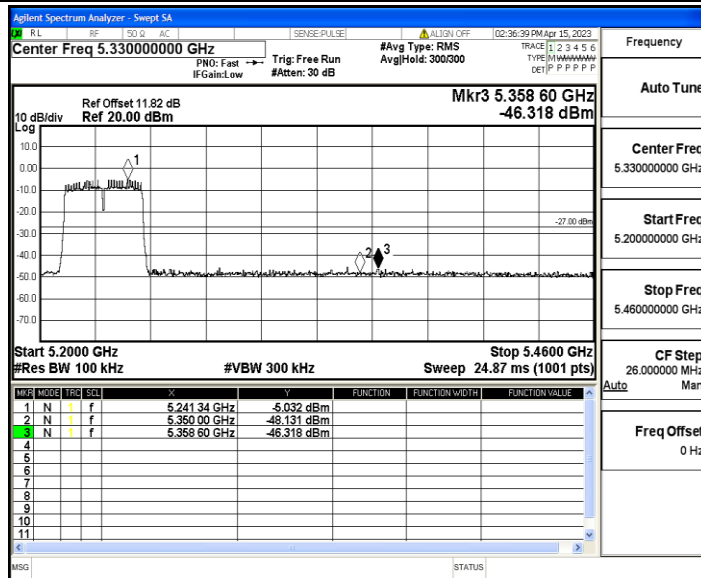
11N40MIMO\_Ant1\_Low\_5190



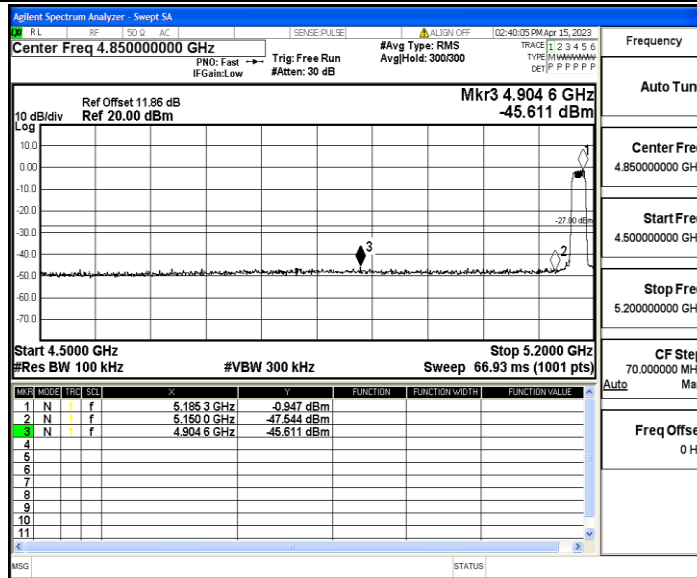
11N40MIMO\_Ant2\_Low\_5190



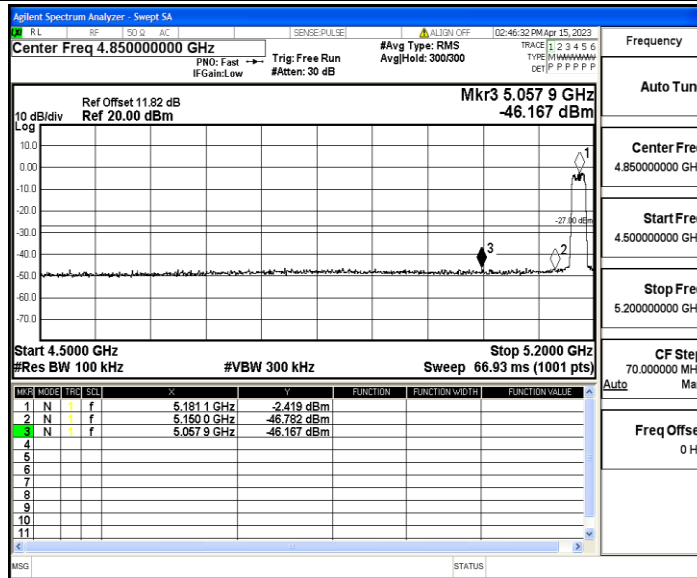
11N40MIMO\_Ant1\_High\_5230



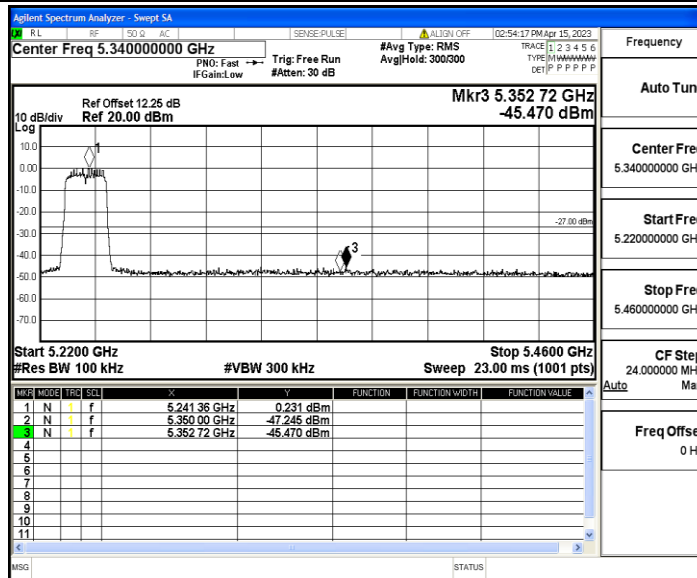
11N40MIMO\_Ant2\_High\_5230



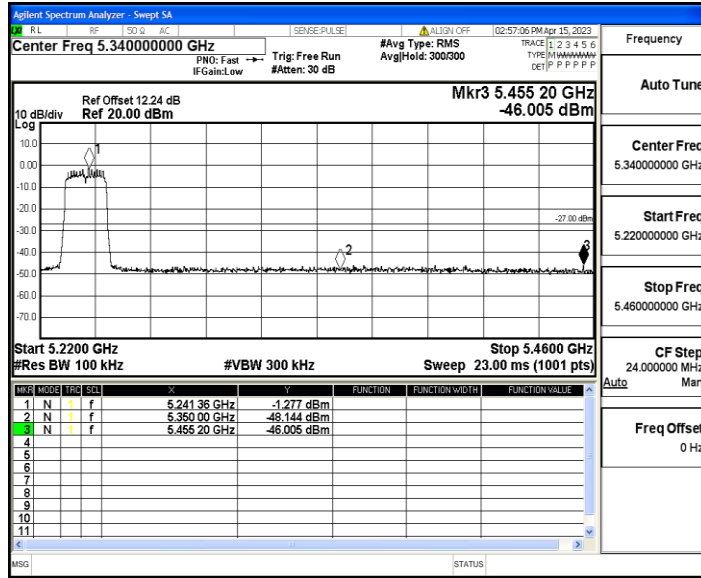
11AC20MIMO\_Ant1\_Low\_5180



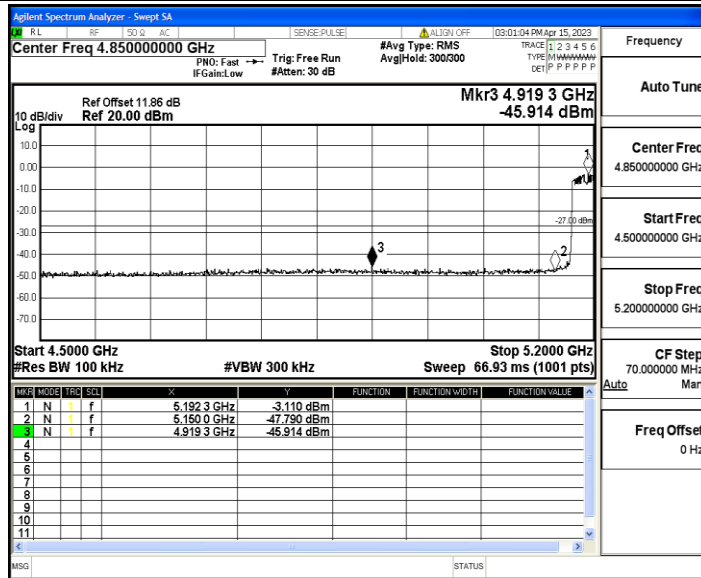
11AC20MIMO\_Ant2\_Low\_5180



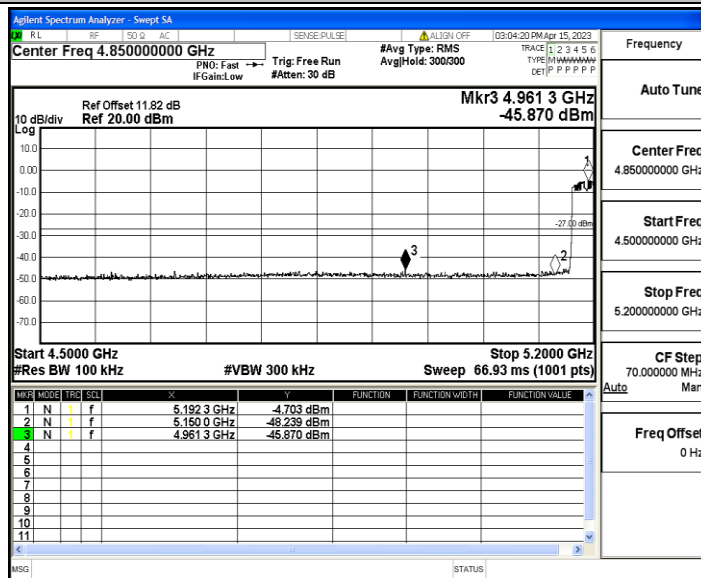
11AC20MIMO\_Ant1\_High\_5240



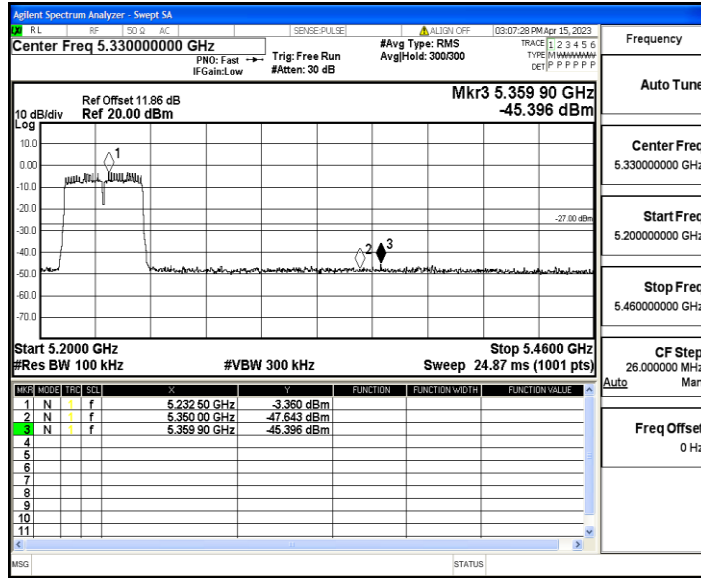
11AC20MIMO\_Ant2\_High\_5240



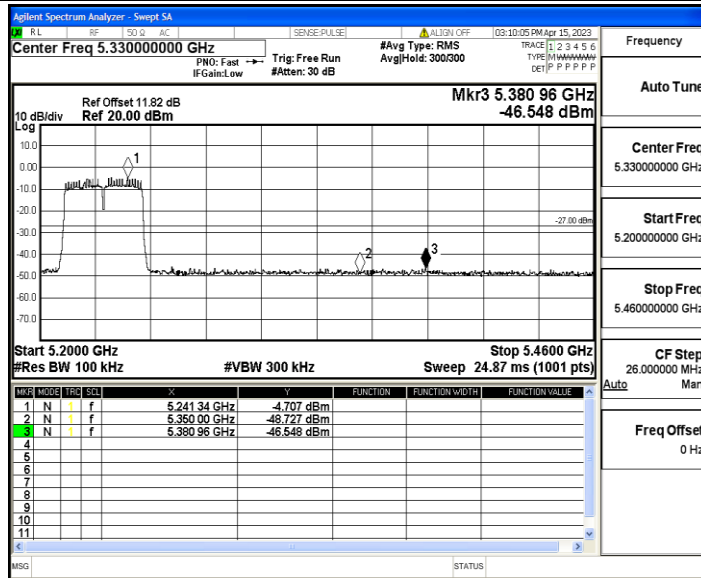
11AC40MIMO\_Ant1\_Low\_5190



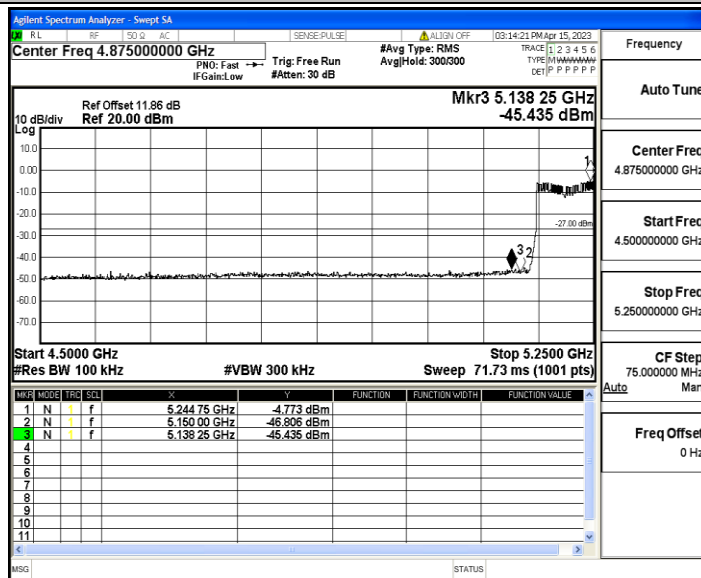
11AC40MIMO\_Ant2\_Low\_5190



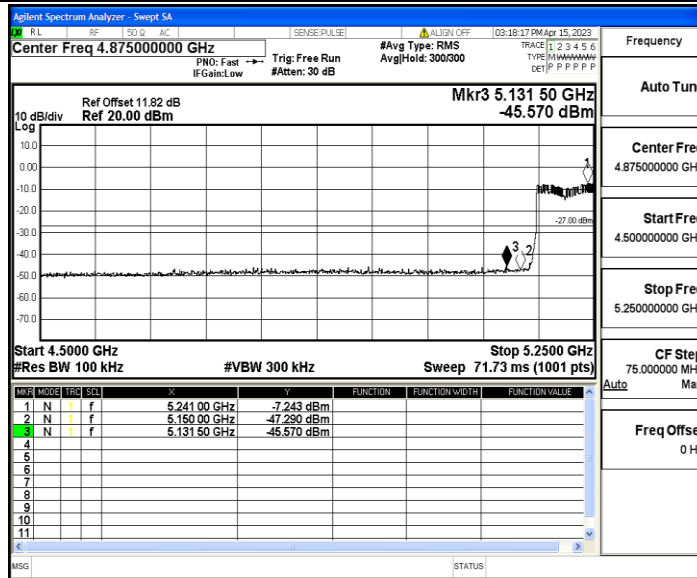
11AC40MIMO\_Ant1\_High\_5230



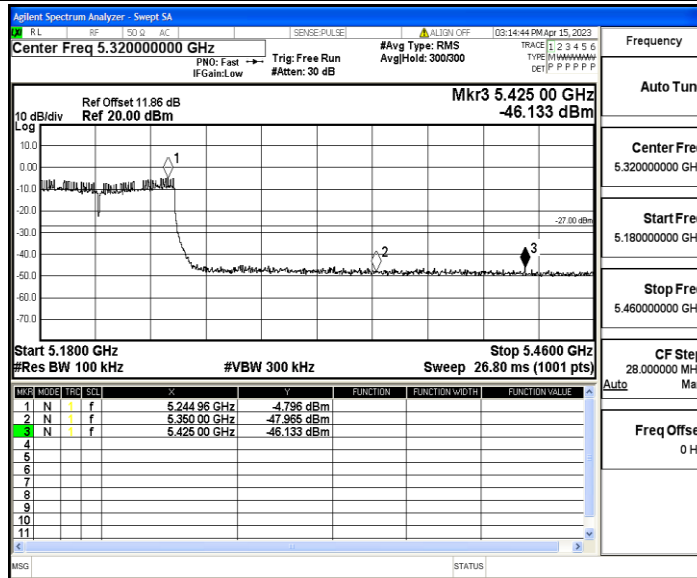
11AC40MIMO\_Ant2\_High\_5230



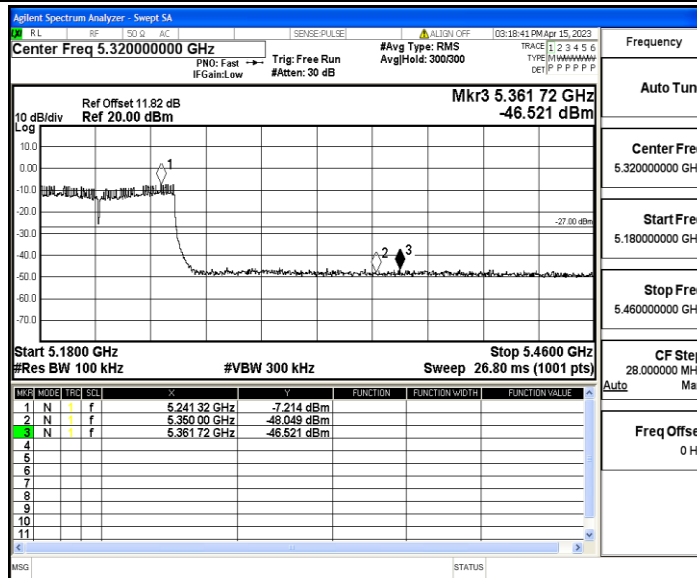
11AC80MIMO\_Ant1\_Low\_5210



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	5180.075597	5150 – 5250	PASS
5180	20	108	5180.050838	5150 – 5250	PASS
5180	50	120	5180.051604	5150 – 5250	PASS
5180	40	120	5179.919345	5150 – 5250	PASS
5180	30	120	5179.955810	5150 – 5250	PASS
5180	20	120	5179.971902	5150 – 5250	PASS
5180	10	120	5179.987826	5150 – 5250	PASS
5180	0	120	5179.992815	5150 – 5250	PASS
5180	-10	120	5179.925510	5150 – 5250	PASS
5180	-20	120	5180.078018	5150 – 5250	PASS
5180	-30	120	5179.956056	5150 – 5250	PASS

#### Ant2

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5180	20	132	5179.918809	5150 – 5250	PASS
5180	20	108	5180.024433	5150 – 5250	PASS
5180	50	120	5179.986350	5150 – 5250	PASS
5180	40	120	5179.924225	5150 – 5250	PASS
5180	30	120	5179.999901	5150 – 5250	PASS
5180	20	120	5180.080189	5150 – 5250	PASS
5180	10	120	5179.963006	5150 – 5250	PASS
5180	0	120	5179.949739	5150 – 5250	PASS
5180	-10	120	5179.909802	5150 – 5250	PASS
5180	-20	120	5180.050089	5150 – 5250	PASS
5180	-30	120	5180.092984	5150 – 5250	PASS

**Ant1**

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5200	20	132	5199.992628	5150 – 5250	PASS
5200	20	108	5200.092920	5150 – 5250	PASS
5200	50	120	5200.033342	5150 – 5250	PASS
5200	40	120	5200.076666	5150 – 5250	PASS
5200	30	120	5200.072388	5150 – 5250	PASS
5200	20	120	5200.017060	5150 – 5250	PASS
5200	10	120	5199.939492	5150 – 5250	PASS
5200	0	120	5200.089354	5150 – 5250	PASS
5200	-10	120	5200.066840	5150 – 5250	PASS
5200	-20	120	5199.957686	5150 – 5250	PASS
5200	-30	120	5199.948702	5150 – 5250	PASS

**Ant2**

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5200	20	132	5200.001415	5150 – 5250	PASS
5200	20	108	5200.043895	5150 – 5250	PASS
5200	50	120	5200.053216	5150 – 5250	PASS
5200	40	120	5199.997871	5150 – 5250	PASS
5200	30	120	5200.012851	5150 – 5250	PASS
5200	20	120	5200.037141	5150 – 5250	PASS
5200	10	120	5200.056677	5150 – 5250	PASS
5200	0	120	5199.999542	5150 – 5250	PASS
5200	-10	120	5200.044039	5150 – 5250	PASS
5200	-20	120	5200.071998	5150 – 5250	PASS
5200	-30	120	5200.011484	5150 – 5250	PASS



**Ant1**

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5240	20	132	5240.045476	5150 – 5250	PASS
5240	20	108	5239.996246	5150 – 5250	PASS
5240	50	120	5240.039923	5150 – 5250	PASS
5240	40	120	5240.047238	5150 – 5250	PASS
5240	30	120	5239.983292	5150 – 5250	PASS
5240	20	120	5239.964984	5150 – 5250	PASS
5240	10	120	5239.996870	5150 – 5250	PASS
5240	0	120	5240.034515	5150 – 5250	PASS
5240	-10	120	5239.922932	5150 – 5250	PASS
5240	-20	120	5240.099059	5150 – 5250	PASS
5240	-30	120	5240.003427	5150 – 5250	PASS

**Ant2**

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5240	20	132	5240.029812	5150 – 5250	PASS
5240	20	108	5240.088605	5150 – 5250	PASS
5240	50	120	5239.984034	5150 – 5250	PASS
5240	40	120	5240.069655	5150 – 5250	PASS
5240	30	120	5240.058825	5150 – 5250	PASS
5240	20	120	5240.075690	5150 – 5250	PASS
5240	10	120	5239.979211	5150 – 5250	PASS
5240	0	120	5239.976356	5150 – 5250	PASS
5240	-10	120	5240.094324	5150 – 5250	PASS
5240	-20	120	5239.943464	5150 – 5250	PASS
5240	-30	120	5240.041592	5150 – 5250	PASS

**Ant1**

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5190	20	132	5189.989327	5150 – 5250	PASS
5190	20	108	5189.937203	5150 – 5250	PASS
5190	50	120	5189.945046	5150 – 5250	PASS
5190	40	120	5189.933600	5150 – 5250	PASS
5190	30	120	5189.901967	5150 – 5250	PASS
5190	20	120	5190.016509	5150 – 5250	PASS
5190	10	120	5189.962018	5150 – 5250	PASS
5190	0	120	5190.080549	5150 – 5250	PASS
5190	-10	120	5189.973366	5150 – 5250	PASS
5190	-20	120	5189.904796	5150 – 5250	PASS
5190	-30	120	5190.027934	5150 – 5250	PASS

**Ant2**

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5190	20	132	5189.958315	5150 – 5250	PASS
5190	20	108	5190.068079	5150 – 5250	PASS
5190	50	120	5189.926352	5150 – 5250	PASS
5190	40	120	5190.023285	5150 – 5250	PASS
5190	30	120	5189.983751	5150 – 5250	PASS
5190	20	120	5190.073495	5150 – 5250	PASS
5190	10	120	5190.036312	5150 – 5250	PASS
5190	0	120	5189.944236	5150 – 5250	PASS
5190	-10	120	5189.942143	5150 – 5250	PASS
5190	-20	120	5189.918188	5150 – 5250	PASS
5190	-30	120	5189.961577	5150 – 5250	PASS

**Ant1**

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5230	20	132	5230.076516	5150 – 5250	PASS
5230	20	108	5229.958970	5150 – 5250	PASS
5230	50	120	5229.942392	5150 – 5250	PASS
5230	40	120	5230.076619	5150 – 5250	PASS
5230	30	120	5229.980586	5150 – 5250	PASS
5230	20	120	5229.972742	5150 – 5250	PASS
5230	10	120	5229.921690	5150 – 5250	PASS
5230	0	120	5230.040275	5150 – 5250	PASS
5230	-10	120	5230.069588	5150 – 5250	PASS
5230	-20	120	5230.099255	5150 – 5250	PASS
5230	-30	120	5230.029528	5150 – 5250	PASS

**Ant2**

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5230	20	132	5230.066279	5150 – 5250	PASS
5230	20	108	5230.090295	5150 – 5250	PASS
5230	50	120	5230.021692	5150 – 5250	PASS
5230	40	120	5230.010816	5150 – 5250	PASS
5230	30	120	5230.067237	5150 – 5250	PASS
5230	20	120	5229.957099	5150 – 5250	PASS
5230	10	120	5230.014128	5150 – 5250	PASS
5230	0	120	5230.072515	5150 – 5250	PASS
5230	-10	120	5229.903727	5150 – 5250	PASS
5230	-20	120	5230.079340	5150 – 5250	PASS
5230	-30	120	5230.001725	5150 – 5250	PASS

**Ant1**

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5210	20	132	5209.977716	5150 – 5250	PASS
5210	20	108	5210.056950	5150 – 5250	PASS
5210	50	120	5210.006643	5150 – 5250	PASS
5210	40	120	5209.946763	5150 – 5250	PASS
5210	30	120	5210.004785	5150 – 5250	PASS
5210	20	120	5209.917099	5150 – 5250	PASS
5210	10	120	5210.044428	5150 – 5250	PASS
5210	0	120	5209.984829	5150 – 5250	PASS
5210	-10	120	5210.071863	5150 – 5250	PASS
5210	-20	120	5209.975494	5150 – 5250	PASS
5210	-30	120	5210.093108	5150 – 5250	PASS

**Ant2**

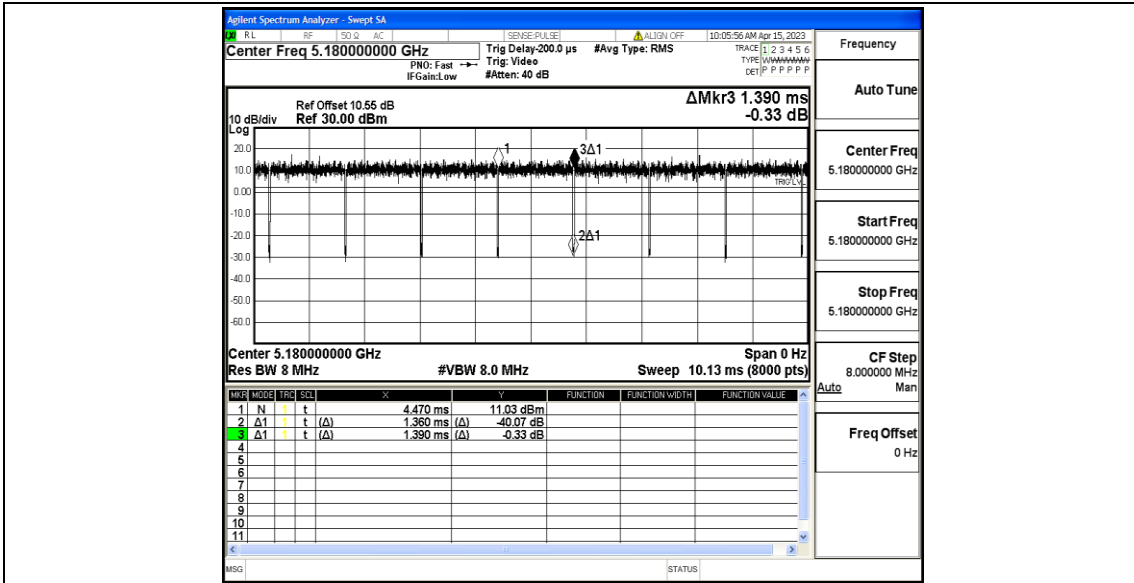
Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5210	20	132	5210.095122	5150 – 5250	PASS
5210	20	108	5209.940095	5150 – 5250	PASS
5210	50	120	5210.063439	5150 – 5250	PASS
5210	40	120	5210.074907	5150 – 5250	PASS
5210	30	120	5210.076647	5150 – 5250	PASS
5210	20	120	5210.037303	5150 – 5250	PASS
5210	10	120	5209.908693	5150 – 5250	PASS
5210	0	120	5210.037091	5150 – 5250	PASS
5210	-10	120	5209.918236	5150 – 5250	PASS
5210	-20	120	5209.908063	5150 – 5250	PASS
5210	-30	120	5210.094851	5150 – 5250	PASS

## Appendix F: Duty Cycle

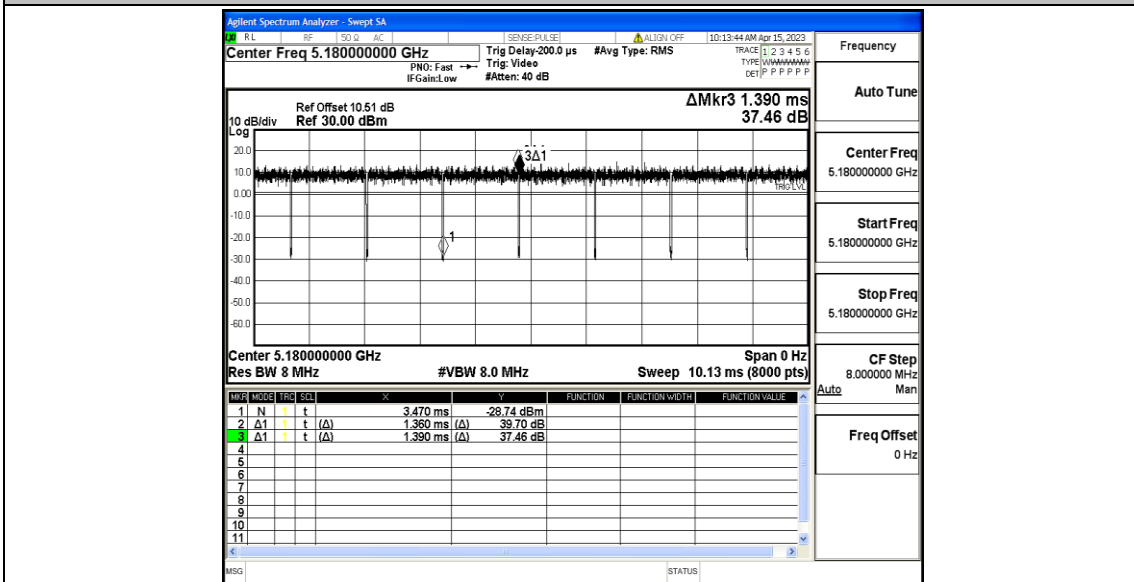
### Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T [kHz]
11A	Ant1	5180	1.36	1.39	97.84	0.74
	Ant2	5180	1.36	1.39	97.84	0.74
	Ant1	5200	1.35	1.38	97.83	0.74
	Ant2	5200	1.36	1.39	97.84	0.74
	Ant1	5240	1.36	1.38	98.55	0.74
	Ant2	5240	1.36	1.38	98.55	0.74
11N20MIMO	Ant1	5180	1.15	1.17	98.29	0.87
	Ant2	5180	1.15	1.18	97.46	0.87
	Ant1	5200	1.15	1.18	97.46	0.87
	Ant2	5200	1.15	1.18	97.46	0.87
	Ant1	5240	1.15	1.18	97.46	0.87
	Ant2	5240	1.14	1.17	97.44	0.88
11N40MIMO	Ant1	5190	0.57	0.59	96.61	1.75
	Ant2	5190	0.57	0.60	95.00	1.75
	Ant1	5230	0.57	0.59	96.61	1.75
	Ant2	5230	0.57	0.59	96.61	1.75
11AC20MIMO	Ant1	5180	1.15	1.18	97.46	0.87
	Ant2	5180	1.15	1.18	97.46	0.87
	Ant1	5200	1.15	1.18	97.46	0.87
	Ant2	5200	1.15	1.18	97.46	0.87
	Ant1	5240	1.15	1.18	97.46	0.87
	Ant2	5240	1.15	1.18	97.46	0.87
11AC40MIMO	Ant1	5190	0.58	0.61	95.08	1.72
	Ant2	5190	0.58	0.61	95.08	1.72
	Ant1	5230	0.58	0.61	95.08	1.72
	Ant2	5230	0.57	0.60	95.00	1.75
11AC80MIMO	Ant1	5210	0.29	0.31	93.55	3.45
	Ant2	5210	0.29	0.32	90.63	3.45

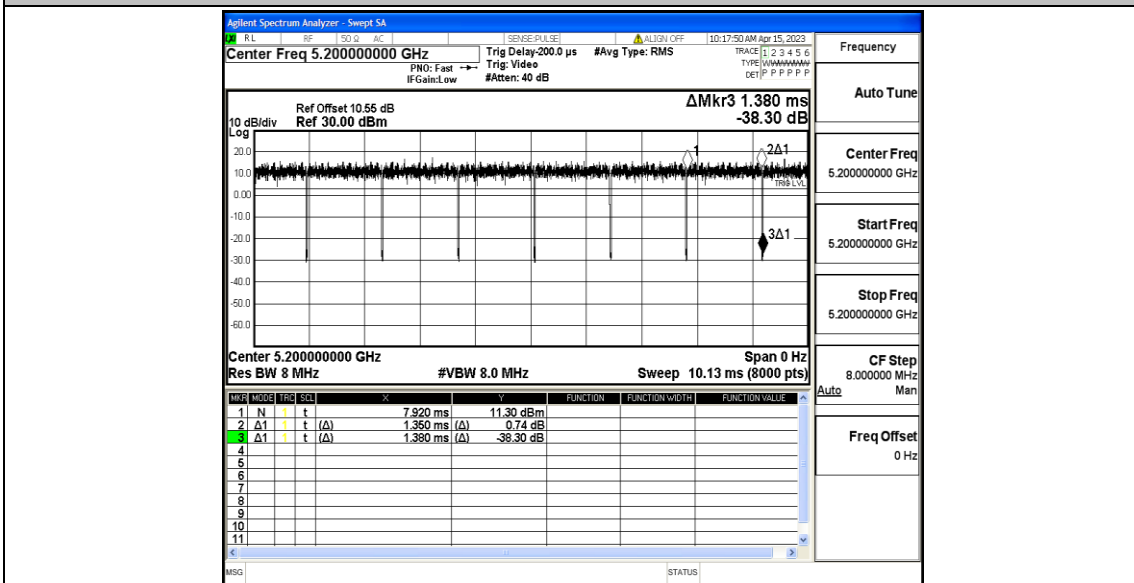
Test Graphs



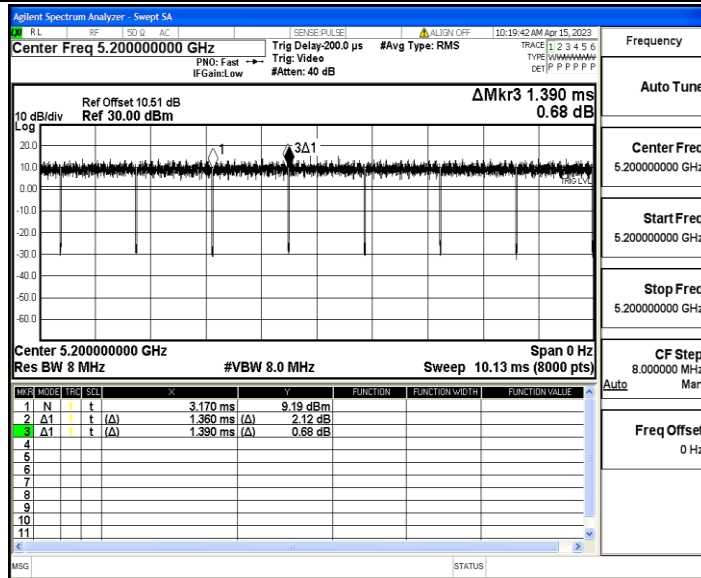
11A\_Ant1\_5180



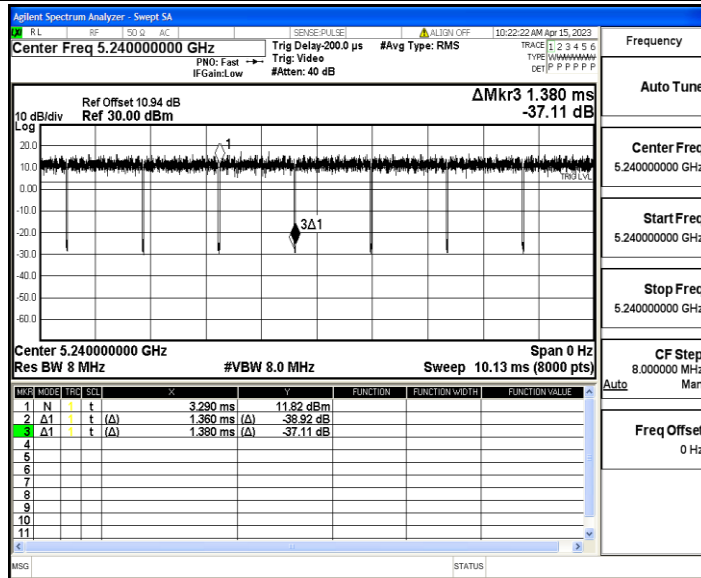
11A\_Ant2\_5180



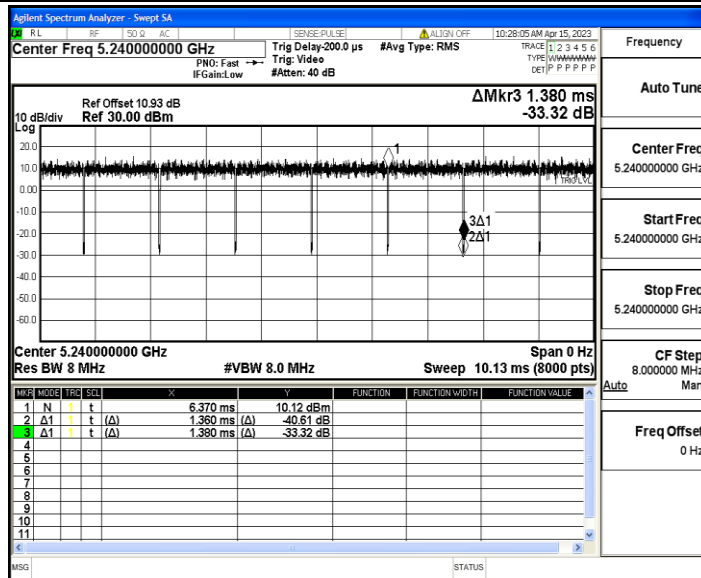
11A\_Ant1\_5200



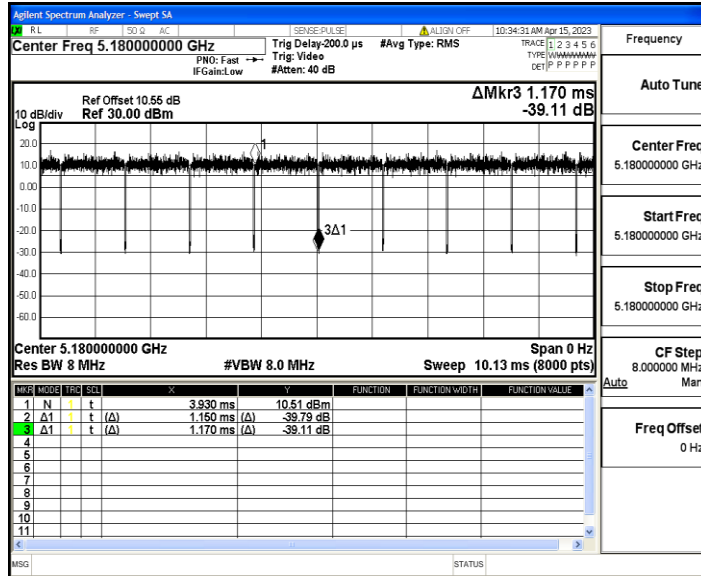
11A\_Ant2\_5200



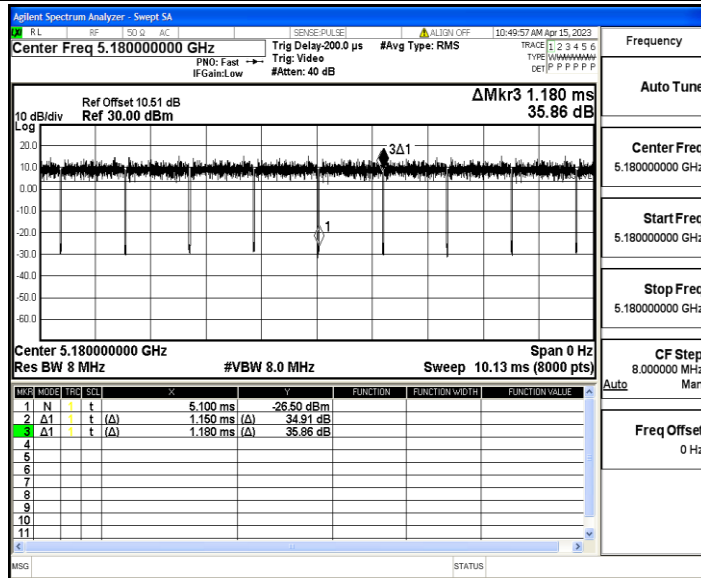
11A\_Ant1\_5240



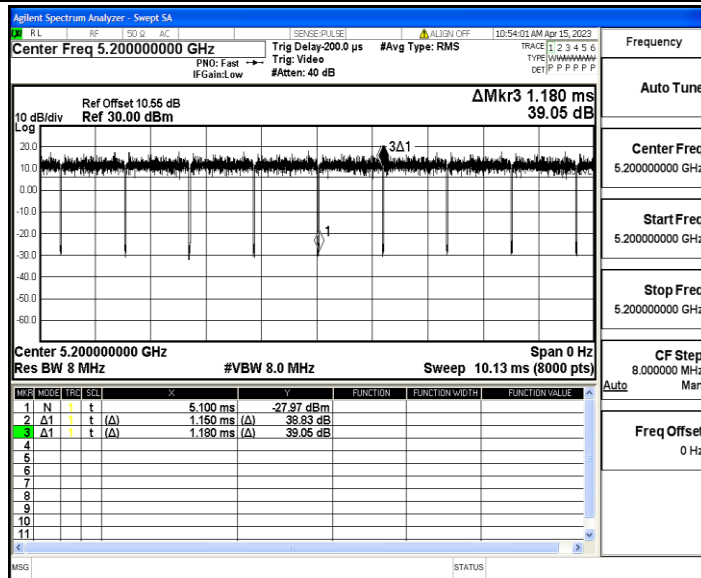
11A\_Ant2\_5240



11N20MIMO\_Ant1\_5180

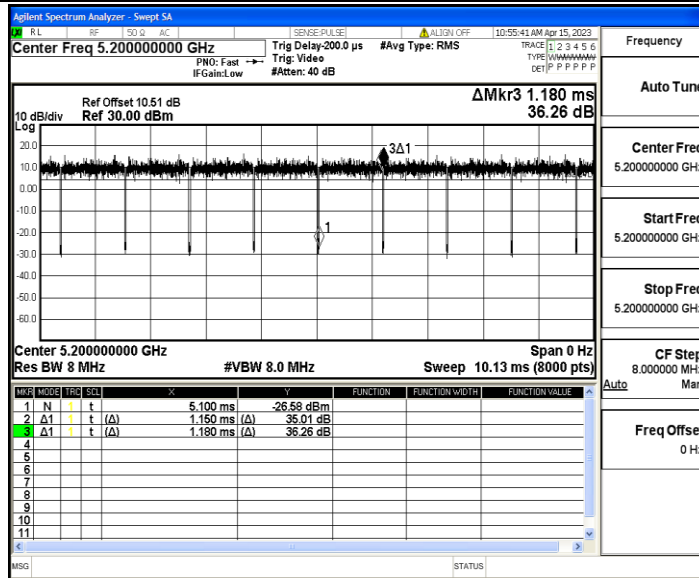


11N20MIMO\_Ant2\_5180

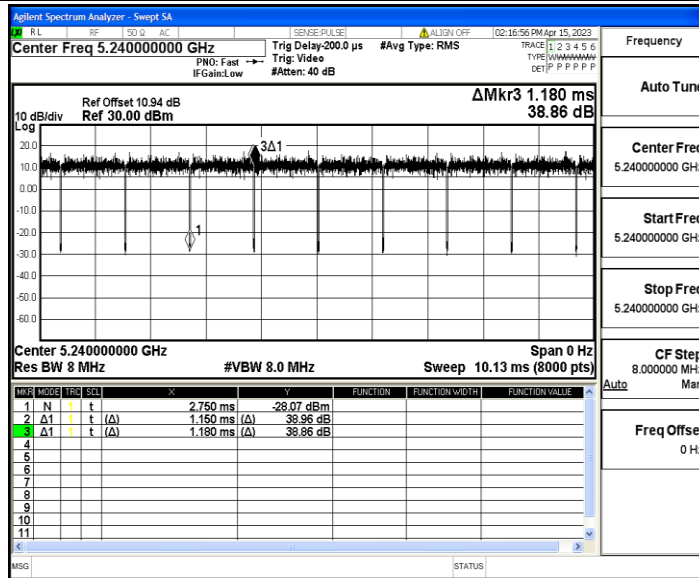


11N20MIMO\_Ant1\_5200

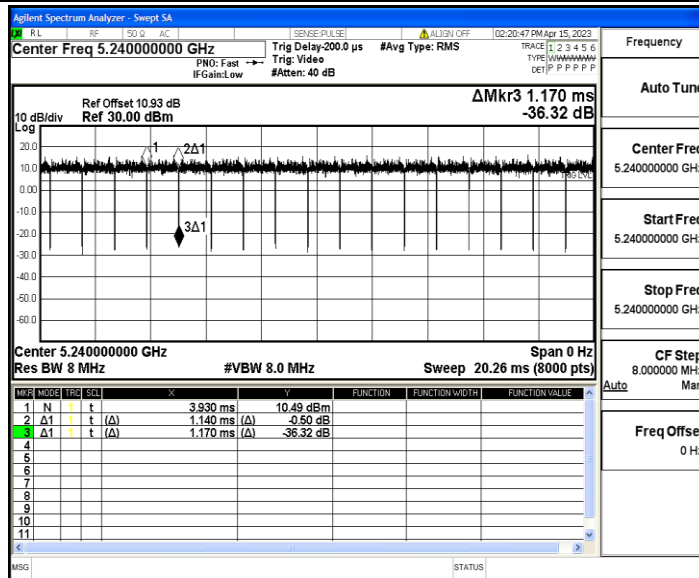




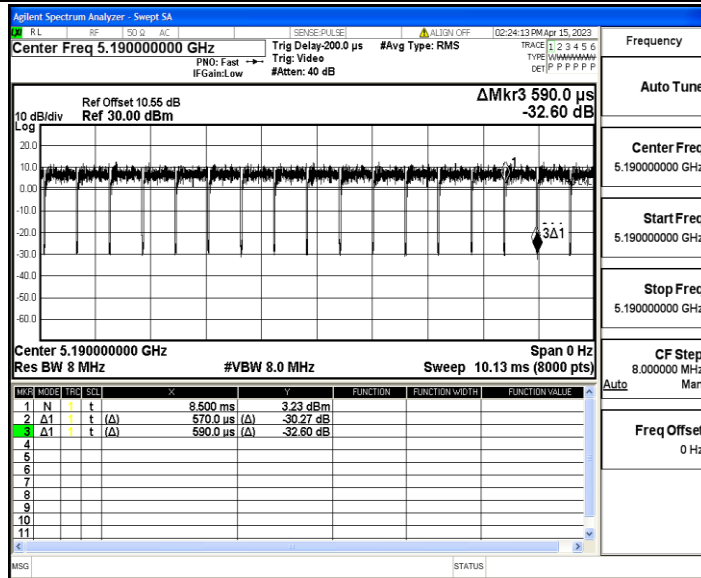
11N20MIMO\_Ant2\_5200



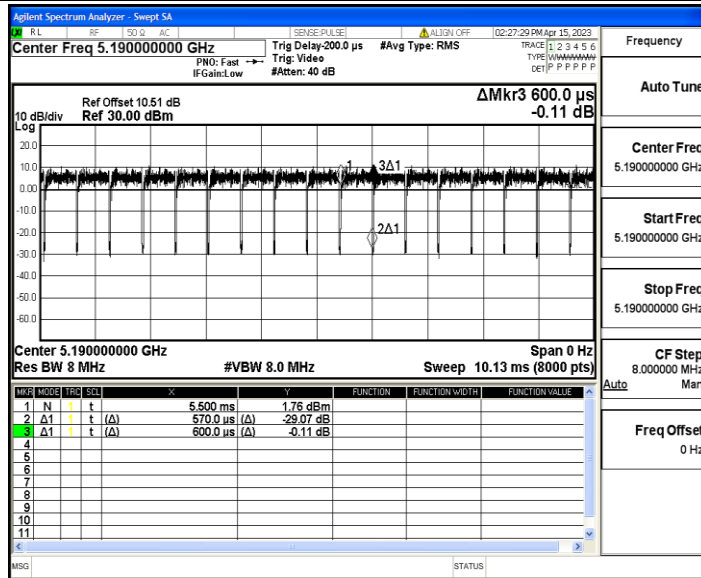
11N20MIMO\_Ant1\_5240



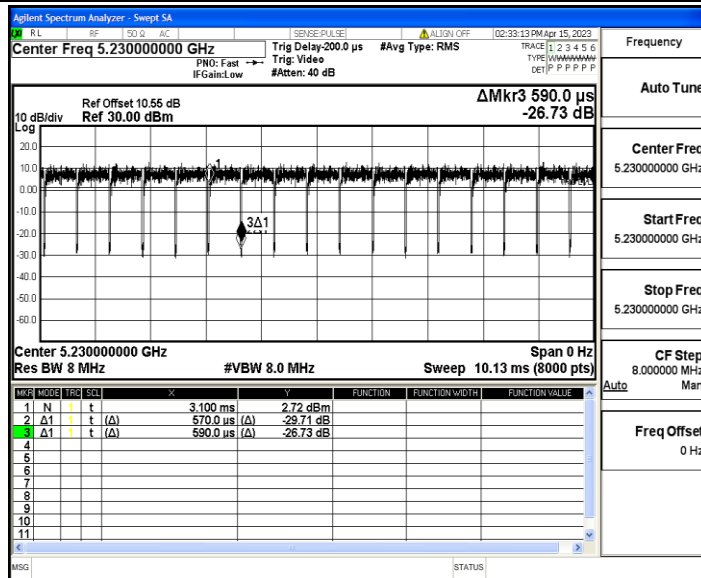
11N20MIMO\_Ant2\_5240



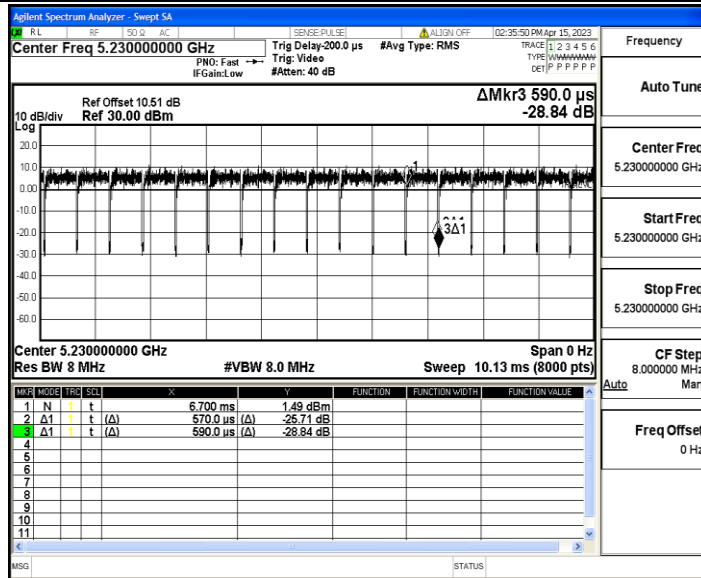
11N40MIMO\_Ant1\_5190



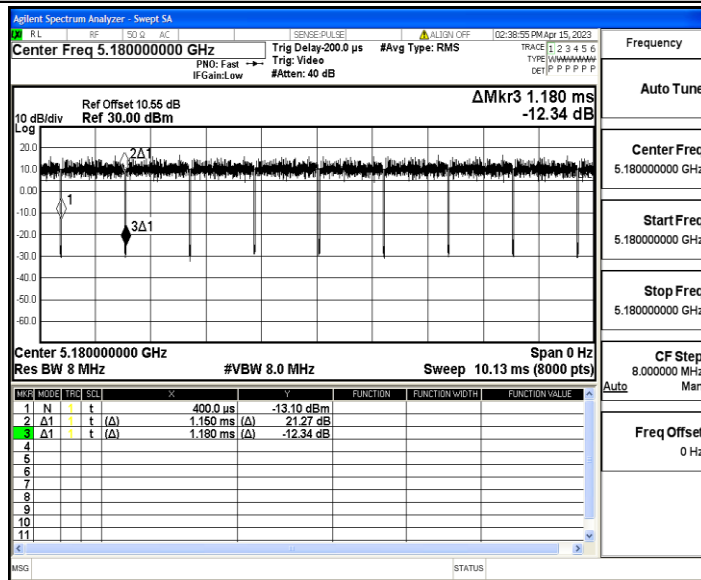
11N40MIMO\_Ant2\_5190



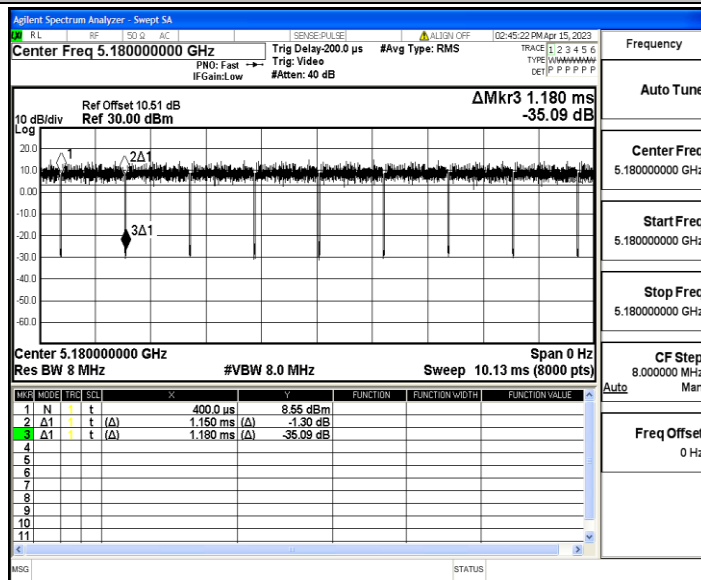
11N40MIMO\_Ant1\_5230



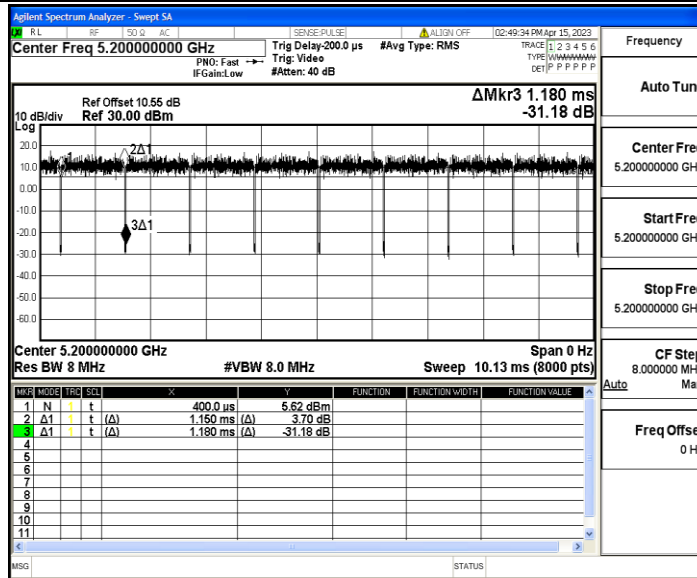
11N40MIMO\_Ant2\_5230



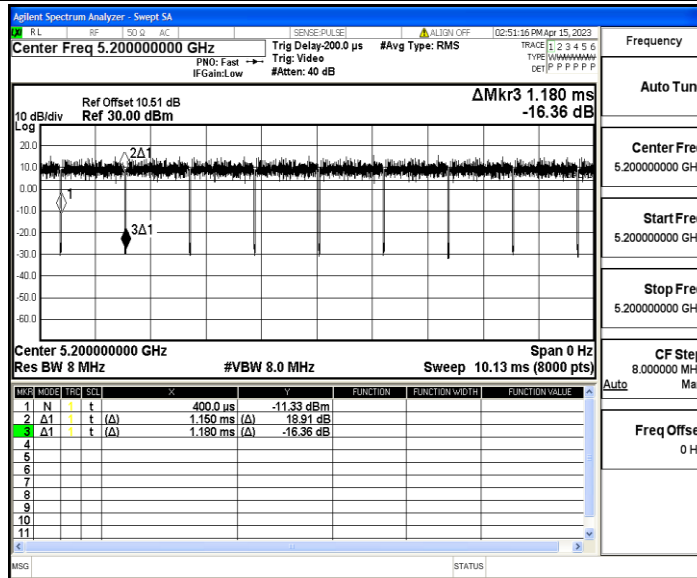
11AC20MIMO\_Ant1\_5180



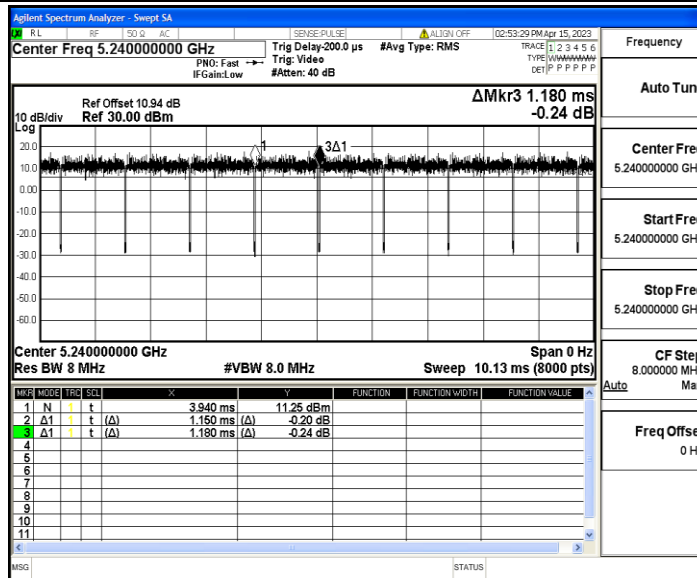
11AC20MIMO\_Ant2\_5180



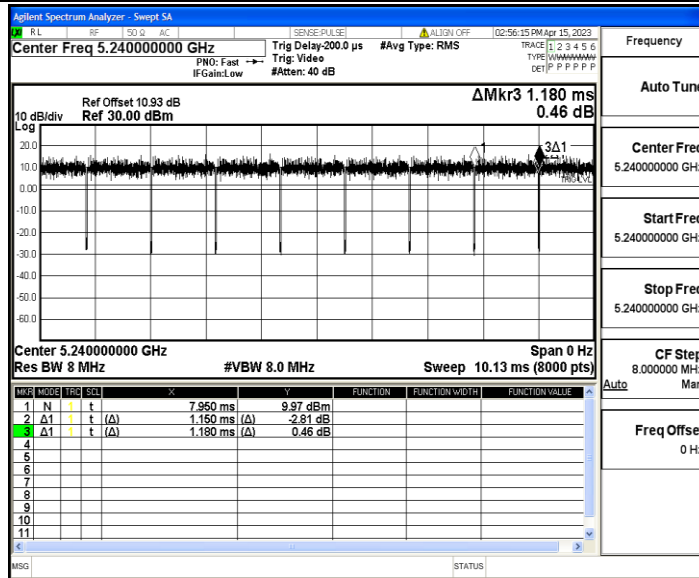
11AC20MIMO\_Ant1\_5200



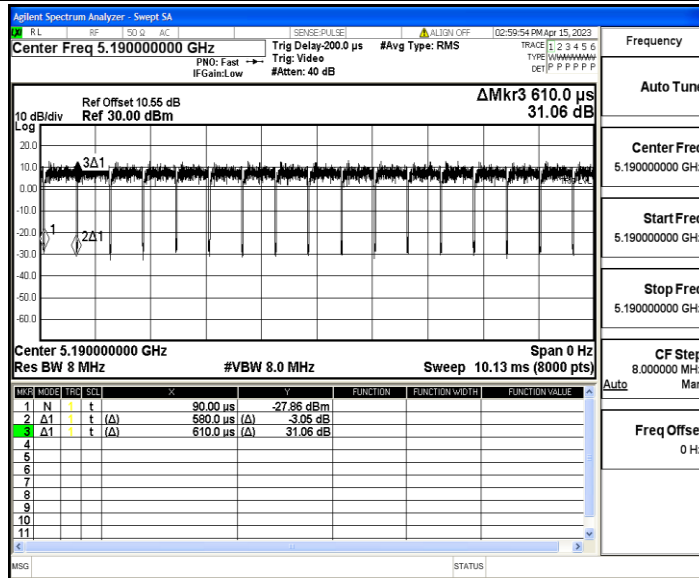
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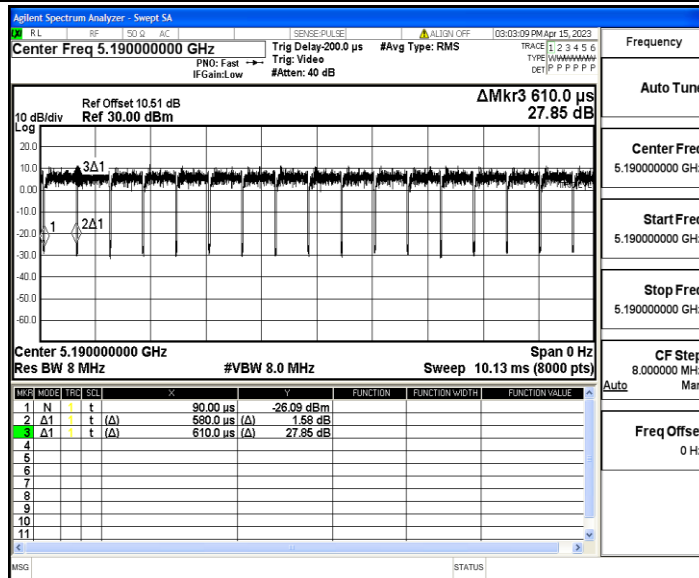
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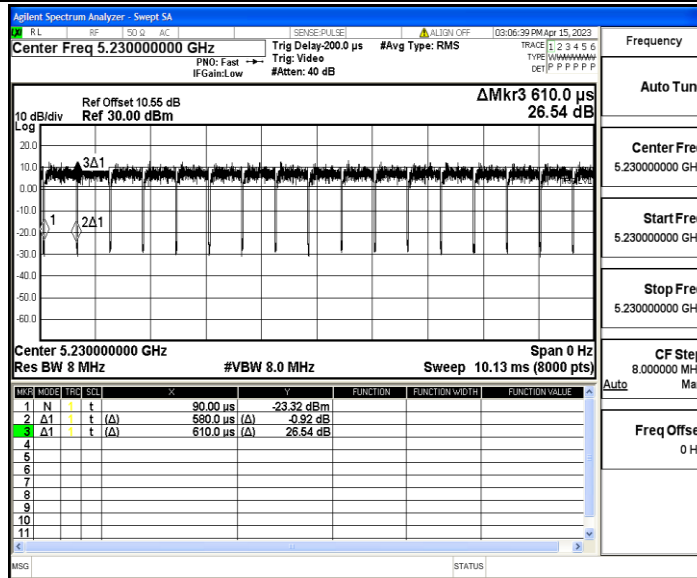
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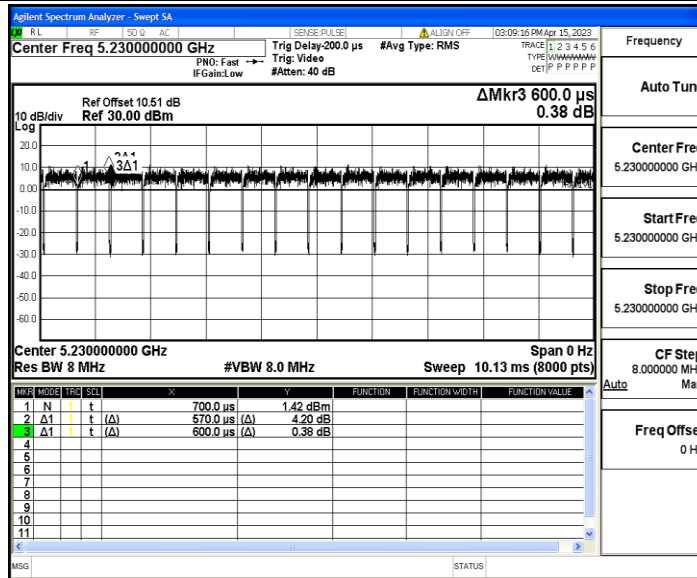
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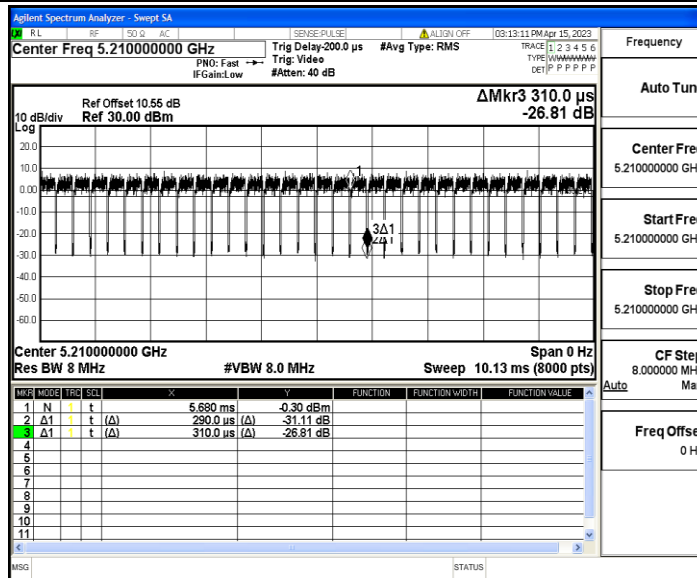
11AC40MIMO\_Ant2\_5190



11AC40MIMO\_Ant1\_5230



11AC40MIMO\_Ant2\_5230



11AC80MIMO\_Ant1\_5210

