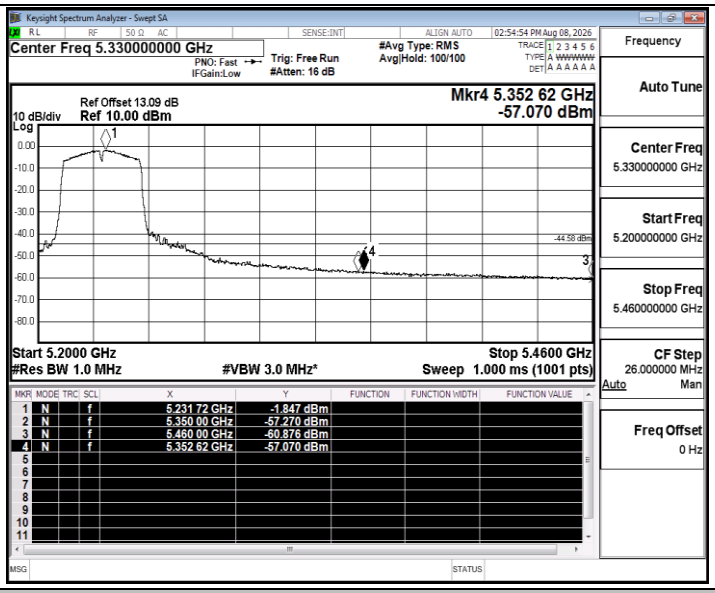
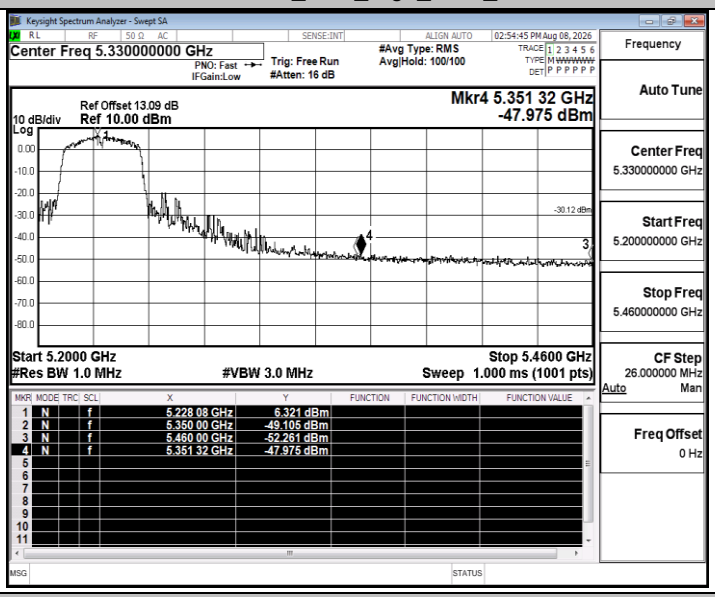
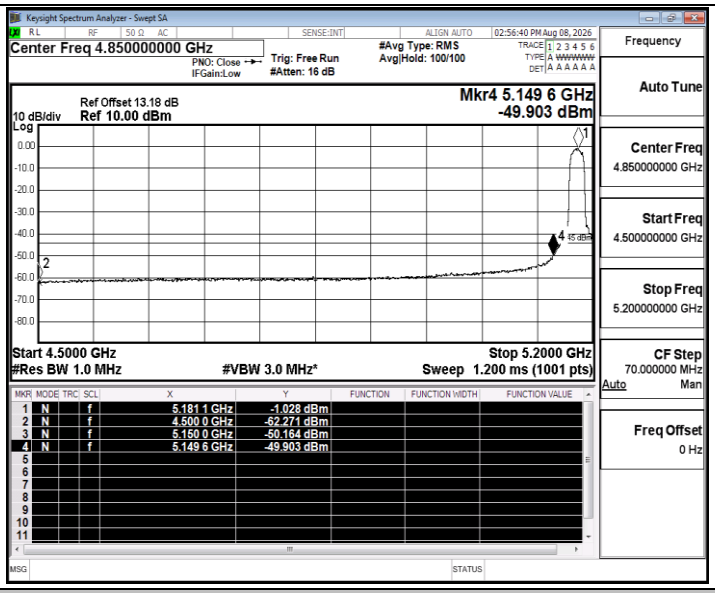


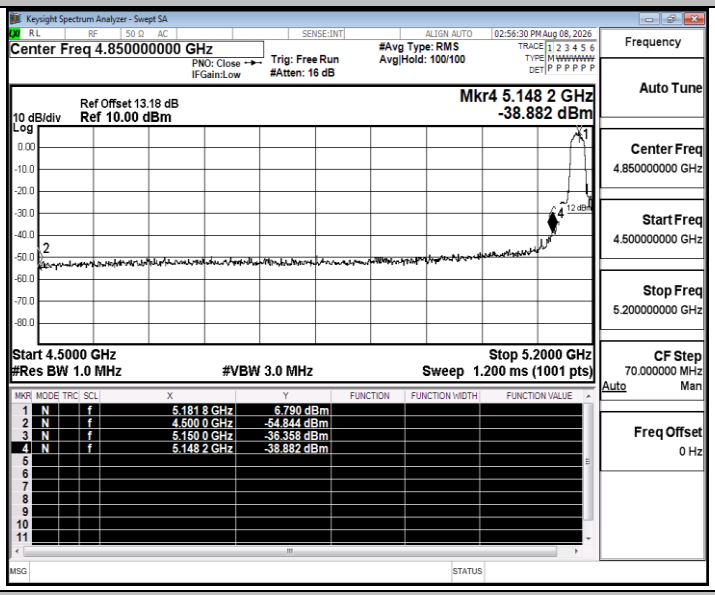
11N40SISO_Ant1_High_5230_Peak



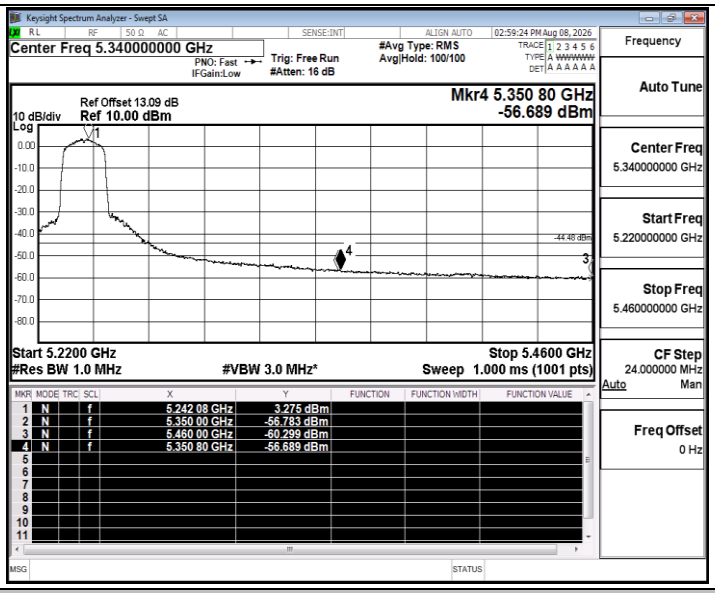
11AC20SISO_Ant1_Low_5180_AV



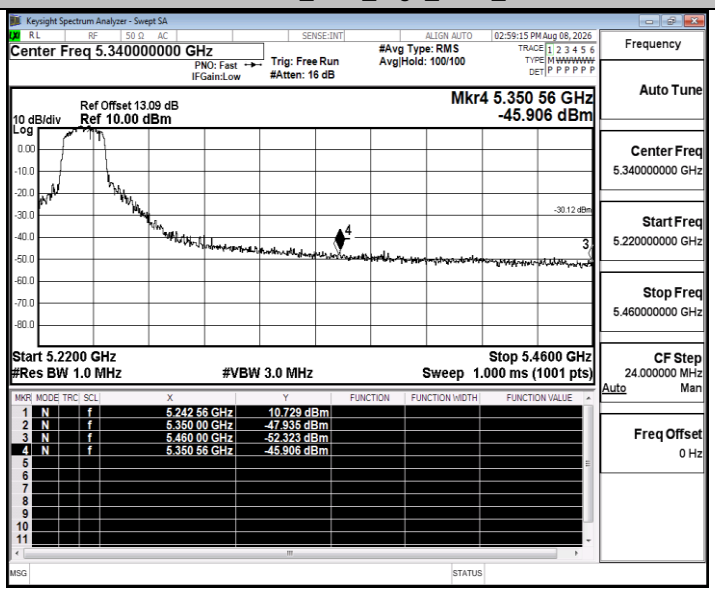
11AC20SISO_Ant1_Low_5180_Peak



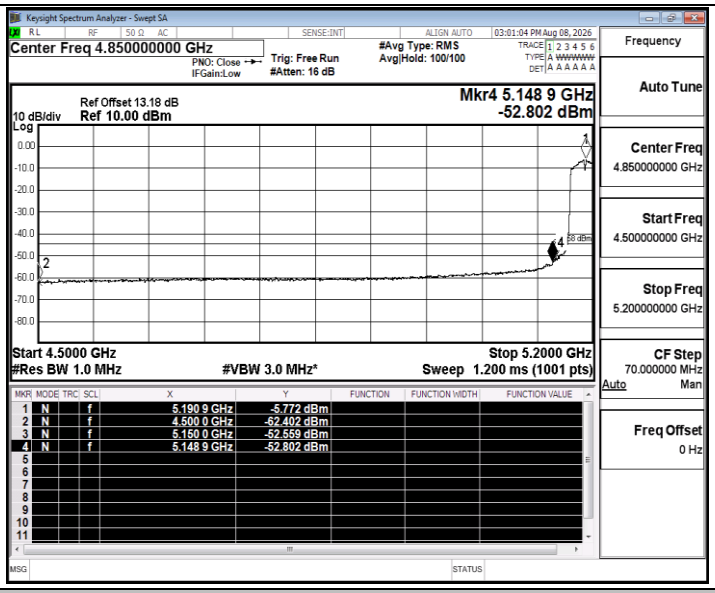
11AC20SISO_Ant1_High_5240_AV



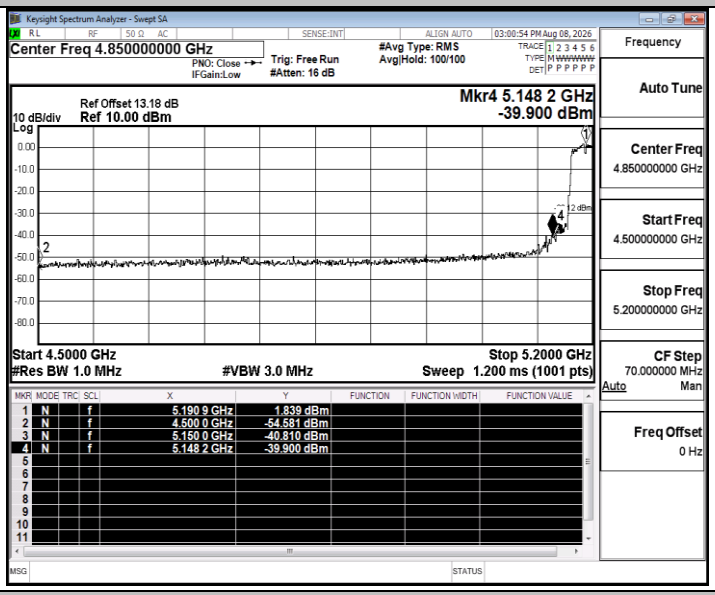
11AC20SISO_Ant1_High_5240_Peak



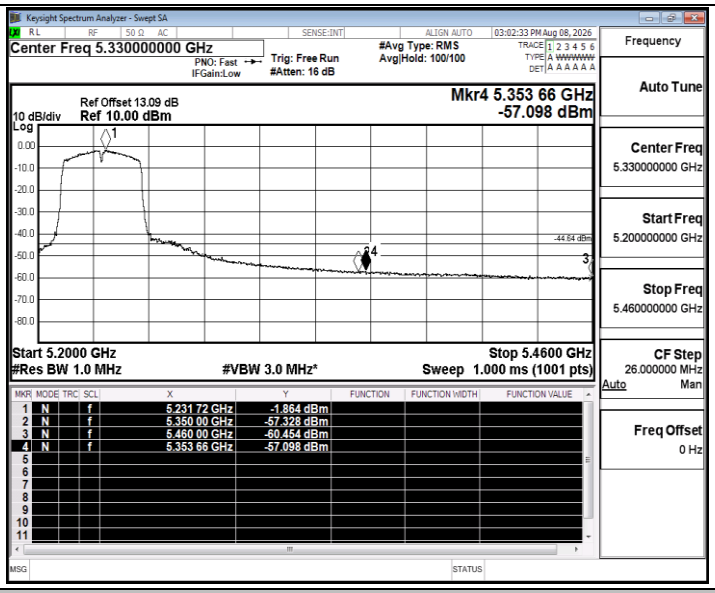
11AC40SISO_Ant1_Low_5190_AV



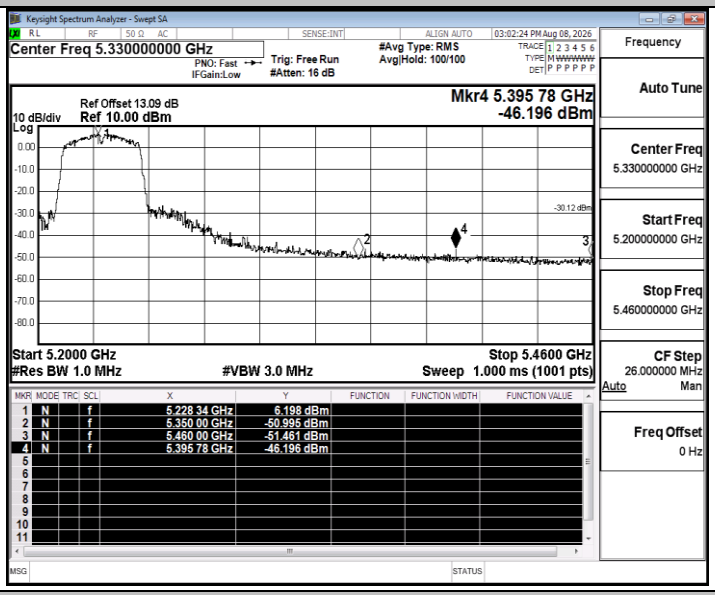
11AC40SISO_Ant1_Low_5190_Peak



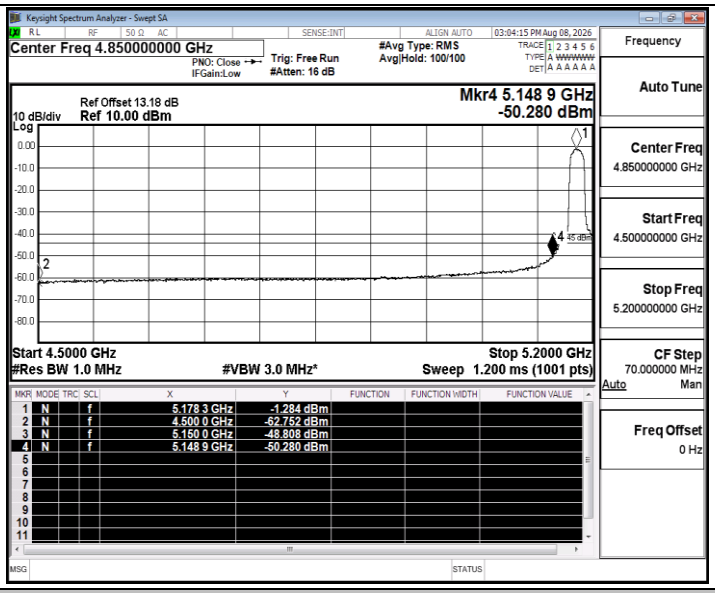
11AC40SISO_Ant1_High_5230_AV



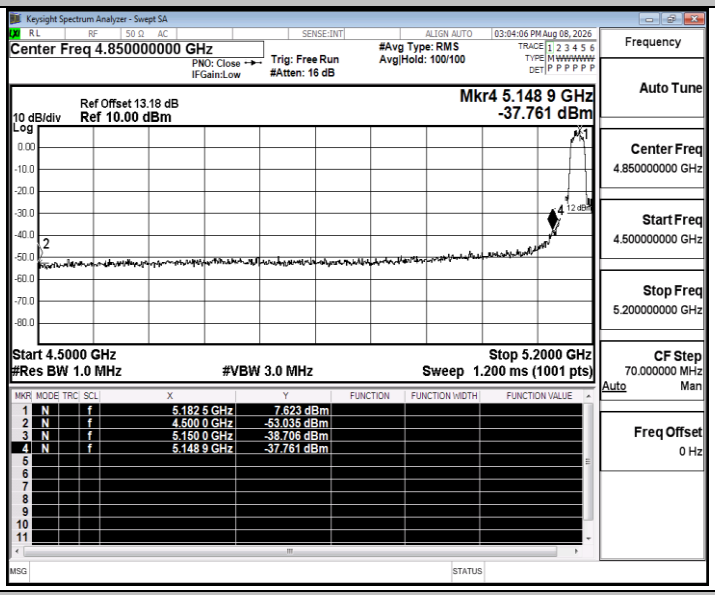
11AC40SISO_Ant1_High_5230_Peak



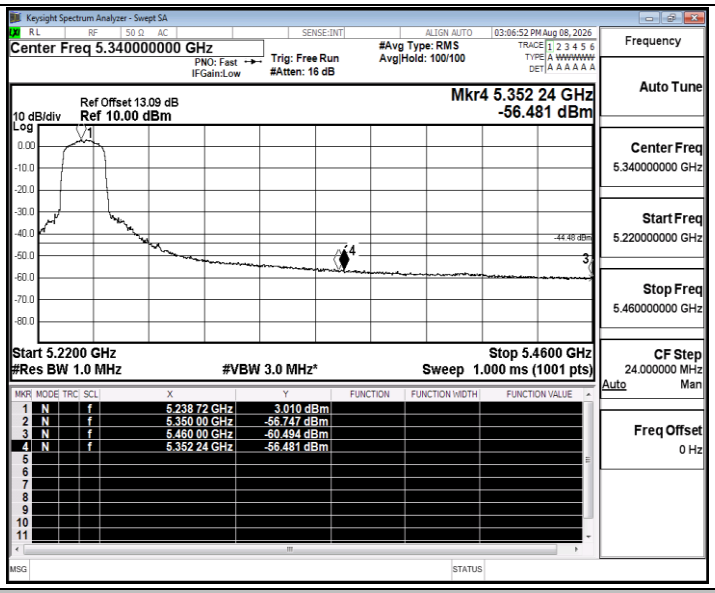
11AX20SISO_Ant1_Low_5180_AV



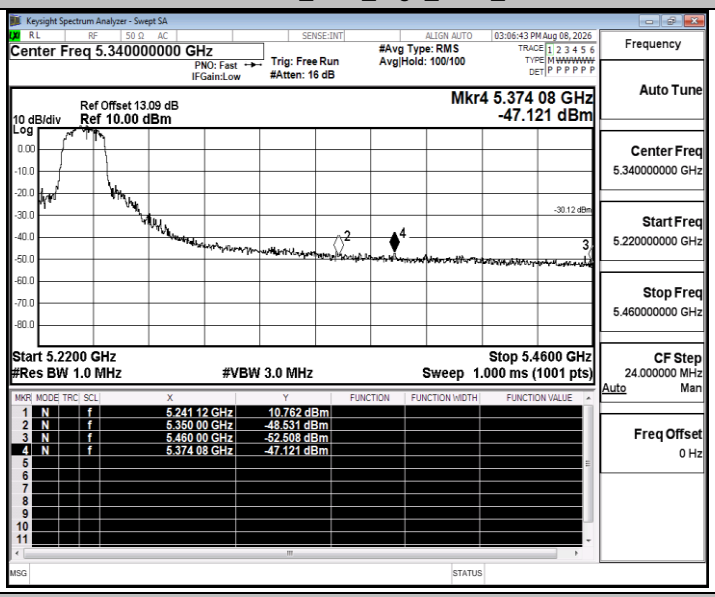
11AX20SISO_Ant1_Low_5180_Peak



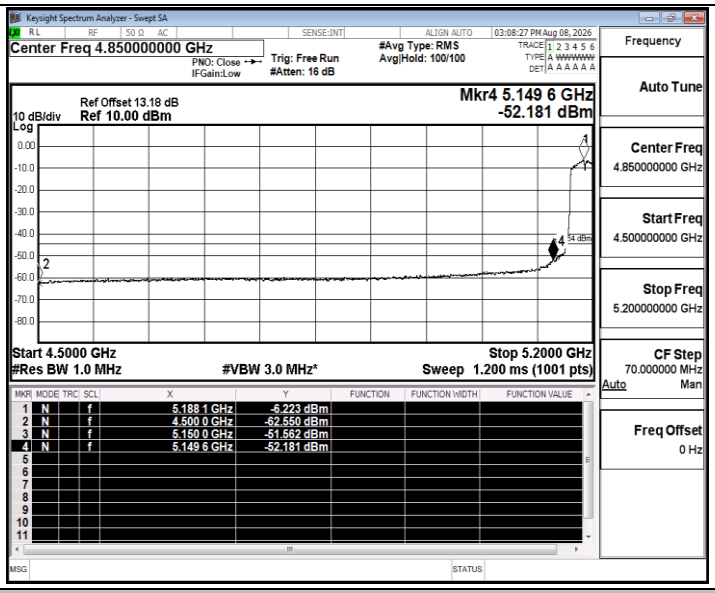
11AX20SISO_Ant1_High_5240_AV



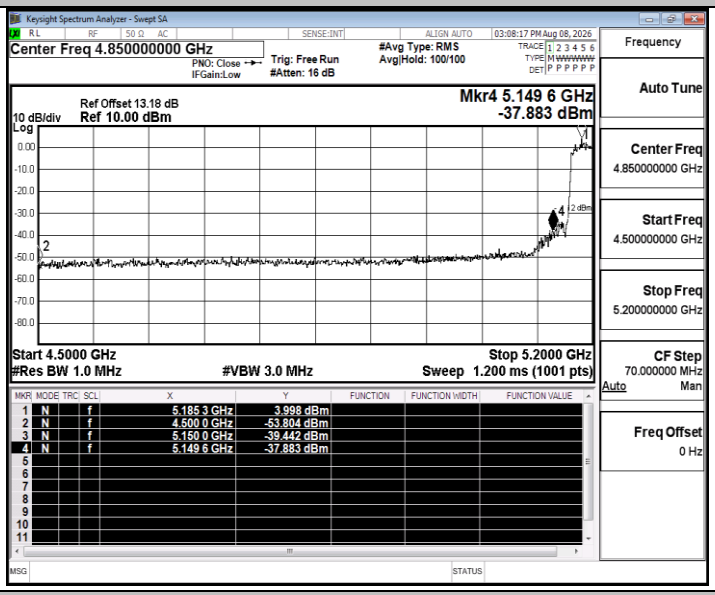
11AX20SISO_Ant1_High_5240_Peak



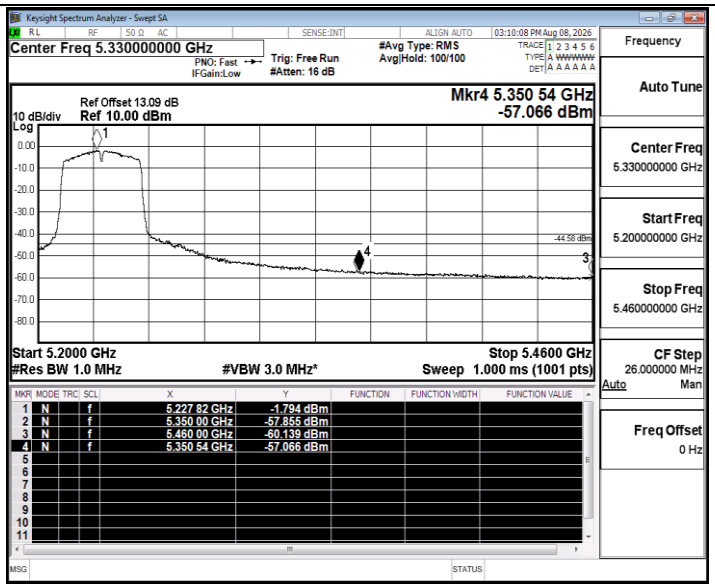
11AX40SISO_Ant1_Low_5190_AV



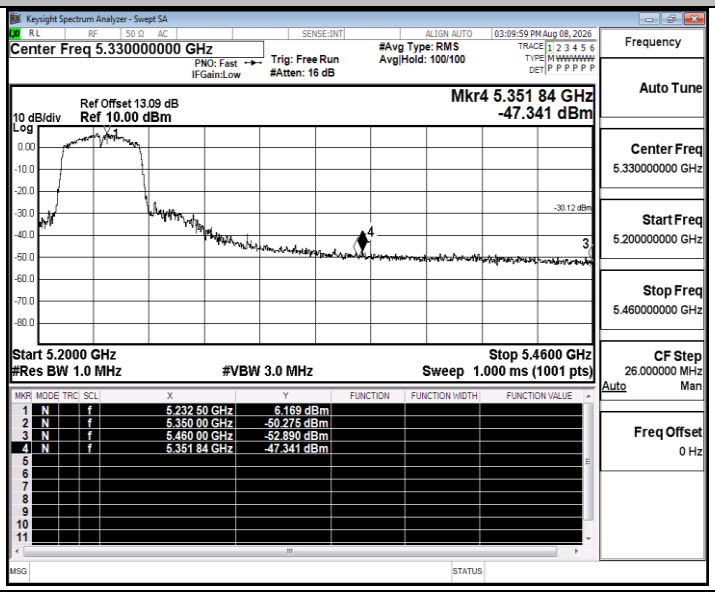
11AX40SISO_Ant1_Low_5190_Peak



11AX40SISO_Ant1_High_5230_AV



11AX40SISO_Ant1_High_5230_Peak



D.5 Frequency Stability

Test Result

Voltage								
TestMode	Antenna	Freq (MHz)	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	-20000.00	-3.861004	20	PASS
			LV	NT	-20000.00	-3.861004	20	PASS
			HV	NT	-20000.00	-3.861004	20	PASS
		5200	NV	NT	-20000.00	-3.846154	20	PASS
			LV	NT	-20000.00	-3.846154	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5240	NV	NT	-20000.00	-3.816794	20	PASS
			LV	NT	-20000.00	-3.816794	20	PASS
			HV	NT	-40000.00	-7.633588	20	PASS
11N20SISO	Ant1	5180	NV	NT	-20000.00	-3.861004	20	PASS
			LV	NT	-60000.00	-11.583012	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5200	NV	NT	-60000.00	-11.538462	20	PASS
			LV	NT	-60000.00	-11.538462	20	PASS
			HV	NT	-40000.00	-7.692308	20	PASS
		5240	NV	NT	-20000.00	-3.816794	20	PASS
			LV	NT	-40000.00	-7.633588	20	PASS
			HV	NT	-20000.00	-3.816794	20	PASS
11N40SISO	Ant1	5190	NV	NT	-40000.00	-7.707129	20	PASS
			LV	NT	-40000.00	-7.707129	20	PASS
			HV	NT	-40000.00	-7.707129	20	PASS
		5230	NV	NT	-80000.00	-15.296367	20	PASS
			LV	NT	-80000.00	-15.296367	20	PASS
			HV	NT	80000.00	15.296367	20	PASS
11AC20SISO	Ant1	5180	NV	NT	0.00	0.000000	20	PASS
			LV	NT	20000.00	3.861004	20	PASS
			HV	NT	-60000.00	-11.583012	20	PASS
		5200	NV	NT	0.00	0.000000	20	PASS
			LV	NT	-40000.00	-7.692308	20	PASS
			HV	NT	-60000.00	-11.538462	20	PASS
		5240	NV	NT	-80000.00	-15.267176	20	PASS
			LV	NT	-80000.00	-15.267176	20	PASS
			HV	NT	-20000.00	-3.816794	20	PASS
11AC40SISO	Ant1	5190	NV	NT	0.00	0.000000	20	PASS

			LV	NT	-40000.00	-7.707129	20	PASS
			HV	NT	-40000.00	-7.707129	20	PASS
		5230	NV	NT	-40000.00	-7.648184	20	PASS
			LV	NT	-80000.00	-15.296367	20	PASS
			HV	NT	-80000.00	-15.296367	20	PASS
11AX20SISO	Ant1	5180	NV	NT	-80000.00	-15.444015	20	PASS
			LV	NT	-20000.00	-3.861004	20	PASS
			HV	NT	-80000.00	-15.296367	20	PASS
		5200	NV	NT	-80000.00	-15.296367	20	PASS
			LV	NT	-20000.00	-3.846154	20	PASS
			HV	NT	-40000.00	-7.692308	20	PASS
		5240	NV	NT	-40000.00	-7.692308	20	PASS
			LV	NT	-20000.00	-3.816794	20	PASS
			HV	NT	60000.00	11.450382	20	PASS
11AX40SISO	Ant1	5190	NV	NT	-80000.00	-15.414258	20	PASS
			LV	NT	-40000.00	-7.707129	20	PASS
			HV	NT	0.00	0.000000	20	PASS
		5230	NV	NT	-40000.00	-7.648184	20	PASS
			LV	NT	0.00	0.000000	20	PASS
			HV	NT	-40000.00	-7.648184	20	PASS

Temperature								
TestMode	Antenna	Freq (MHz)	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	-30	-40000.00	-7.722008	20	PASS
			NV	-20	-40000.00	-7.722008	20	PASS
			NV	-10	-40000.00	-7.722008	20	PASS
			NV	0	-20000.00	-3.861004	20	PASS
			NV	10	-60000.00	-11.583012	20	PASS
			NV	20	-60000.00	-11.583012	20	PASS
			NV	30	-20000.00	-3.861004	20	PASS
			NV	40	-20000.00	-3.861004	20	PASS
			NV	50	-60000.00	-11.583012	20	PASS
		5200	NV	-30	0.00	0.000000	20	PASS
			NV	-20	20000.00	3.846154	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-40000.00	-7.692308	20	PASS
			NV	10	-20000.00	-3.846154	20	PASS
			NV	20	-20000.00	-3.846154	20	PASS
			NV	30	20000.00	3.846154	20	PASS
			NV	40	-40000.00	-7.692308	20	PASS
			NV	50	-40000.00	-7.692308	20	PASS
		5240	NV	-30	-40000.00	-7.633588	20	PASS
			NV	-20	-40000.00	-7.633588	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-60000.00	-11.450382	20	PASS
			NV	10	-20000.00	-3.816794	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-60000.00	-11.450382	20	PASS
			NV	40	-40000.00	-7.633588	20	PASS
			NV	50	-40000.00	-7.633588	20	PASS
11N20SISO	Ant1	5180	NV	-30	0.00	0.000000	20	PASS
			NV	-20	20000.00	3.861004	20	PASS
			NV	-10	-60000.00	-11.583012	20	PASS
			NV	0	20000.00	3.861004	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	40000.00	7.722008	20	PASS
			NV	30	20000.00	3.861004	20	PASS
			NV	40	-40000.00	-7.722008	20	PASS
			NV	50	-80000.00	-15.444015	20	PASS
		5200	NV	-30	40000.00	7.692308	20	PASS
			NV	-20	-20000.00	-3.846154	20	PASS

			NV	-10	-40000.00	-7.692308	20	PASS
			NV	0	-40000.00	-7.692308	20	PASS
			NV	10	-20000.00	-3.846154	20	PASS
			NV	20	-20000.00	-3.846154	20	PASS
			NV	30	20000.00	3.846154	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-60000.00	-11.538462	20	PASS
		5240	NV	-30	-80000.00	-15.267176	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-40000.00	-7.633588	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	20000.00	3.816794	20	PASS
			NV	20	20000.00	3.816794	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-20000.00	-3.816794	20	PASS
			NV	50	-60000.00	-11.450382	20	PASS
11N40SISO	Ant1	5190	NV	-30	0.00	0.000000	20	PASS
			NV	-20	80000.00	15.414258	20	PASS
			NV	-10	-80000.00	-15.414258	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	80000.00	15.414258	20	PASS
			NV	20	80000.00	15.414258	20	PASS
			NV	30	80000.00	15.414258	20	PASS
			NV	40	80000.00	15.414258	20	PASS
			NV	50	80000.00	15.414258	20	PASS
		5230	NV	-30	40000.00	7.648184	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-40000.00	-7.648184	20	PASS
			NV	0	40000.00	7.648184	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-40000.00	-7.648184	20	PASS
			NV	30	-40000.00	-7.648184	20	PASS
			NV	40	-40000.00	-7.648184	20	PASS
			NV	50	-40000.00	-7.648184	20	PASS
11AC20SISO	Ant1	5180	NV	-30	-40000.00	-7.722008	20	PASS
			NV	-20	-20000.00	-3.861004	20	PASS
			NV	-10	-20000.00	-3.861004	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	20000.00	3.861004	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	20000.00	3.861004	20	PASS

			NV	40	-60000.00	-11.583012	20	PASS
			NV	50	-40000.00	-7.722008	20	PASS
		5200	NV	-30	-40000.00	-7.692308	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	20000.00	3.846154	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-60000.00	-11.538462	20	PASS
			NV	20	-40000.00	-7.692308	20	PASS
			NV	30	-60000.00	-11.538462	20	PASS
			NV	40	40000.00	7.692308	20	PASS
			NV	50	60000.00	11.538462	20	PASS
		5240	NV	-30	-100000.00	-19.083969	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	-40000.00	-7.633588	20	PASS
			NV	10	-60000.00	-11.450382	20	PASS
			NV	20	100000.00	19.083969	20	PASS
			NV	30	-40000.00	-7.633588	20	PASS
			NV	40	-80000.00	-15.267176	20	PASS
			NV	50	-60000.00	-11.450382	20	PASS
11AC40SISO	Ant1	5190	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-40000.00	-7.707129	20	PASS
			NV	-10	40000.00	7.707129	20	PASS
			NV	0	0.00	0.000000	20	PASS
			NV	10	-80000.00	-15.414258	20	PASS
			NV	20	-80000.00	-15.414258	20	PASS
			NV	30	-80000.00	-15.414258	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-40000.00	-7.707129	20	PASS
		5230	NV	-30	-40000.00	-7.707129	20	PASS
			NV	-20	-40000.00	-7.707129	20	PASS
			NV	-10	0.00	0.000000	20	PASS
			NV	0	40000.00	7.648184	20	PASS
			NV	10	-40000.00	-7.648184	20	PASS
			NV	20	0.00	0.000000	20	PASS
			NV	30	-40000.00	-7.648184	20	PASS
			NV	40	0.00	0.000000	20	PASS
			NV	50	-40000.00	-7.648184	20	PASS
11AX20SISO	Ant1	5180	NV	-30	-20000.00	-3.861004	20	PASS
			NV	-20	-40000.00	-7.722008	20	PASS
			NV	-10	-40000.00	-7.722008	20	PASS

			NV	0	-20000.00	-3.861004	20	PASS
			NV	10	-40000.00	-7.722008	20	PASS
			NV	20	40000.00	7.722008	20	PASS
			NV	30	-20000.00	-3.861004	20	PASS
			NV	40	-40000.00	-7.722008	20	PASS
			NV	50	-40000.00	-7.722008	20	PASS
		5200	NV	-30	80000.00	15.384615	20	PASS
			NV	-20	40000.00	7.692308	20	PASS
			NV	-10	-20000.00	-3.846154	20	PASS
			NV	0	40000.00	7.692308	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-60000.00	-11.538462	20	PASS
			NV	30	-20000.00	-3.846154	20	PASS
			NV	40	-20000.00	-3.846154	20	PASS
			NV	50	100000.00	19.230769	20	PASS
		5240	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	-100000.00	-19.083969	20	PASS
			NV	0	-60000.00	-11.450382	20	PASS
			NV	10	-20000.00	-3.816794	20	PASS
			NV	20	-80000.00	-15.267176	20	PASS
			NV	30	-60000.00	-11.450382	20	PASS
			NV	40	-60000.00	-11.450382	20	PASS
			NV	50	20000.00	3.816794	20	PASS
11AX40SISO	Ant1	5190	NV	-30	0.00	0.000000	20	PASS
			NV	-20	-40000.00	-7.707129	20	PASS
			NV	-10	40000.00	7.707129	20	PASS
			NV	0	80000.00	15.414258	20	PASS
			NV	10	0.00	0.000000	20	PASS
			NV	20	-80000.00	-15.414258	20	PASS
			NV	30	0.00	0.000000	20	PASS
			NV	40	-40000.00	-7.707129	20	PASS
			NV	50	-80000.00	-15.414258	20	PASS
		5230	NV	-30	0.00	0.000000	20	PASS
			NV	-20	0.00	0.000000	20	PASS
			NV	-10	80000.00	15.296367	20	PASS
			NV	0	40000.00	7.648184	20	PASS
			NV	10	80000.00	15.296367	20	PASS
			NV	20	80000.00	15.296367	20	PASS
			NV	30	80000.00	15.296367	20	PASS
			NV	40	80000.00	15.296367	20	PASS

			NV	50	80000.00	15.296367	20	PASS

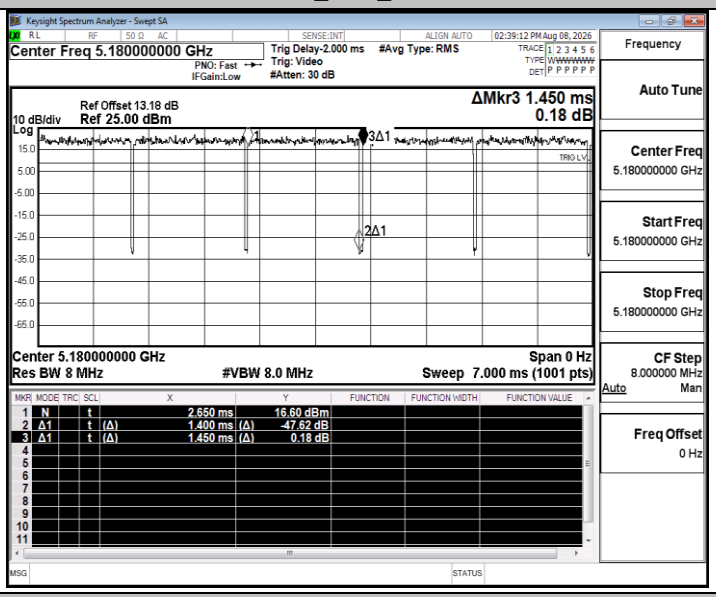
D.6 Duty Cycle

Test Result

TestMode	Antenna	Freq (MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factor	Limit	Verdict
11A	Ant1	5180	1.40	1.45	96.55	0.15	---	---
		5200	1.39	1.44	96.53	0.15	---	---
		5240	1.38	1.43	96.50	0.15	---	---
11N20SISO	Ant1	5180	1.30	1.34	97.01	0.13	---	---
		5200	1.30	1.34	97.01	0.13	---	---
		5240	1.30	1.34	97.01	0.13	---	---
11N40SISO	Ant1	5190	0.65	0.70	92.86	0.32	---	---
		5230	0.65	0.69	94.20	0.26	---	---
11AC20SISO	Ant1	5180	1.31	1.35	97.04	0.13	---	---
		5200	1.31	1.35	97.04	0.13	---	---
		5240	1.31	1.36	96.32	0.16	---	---
11AC40SISO	Ant1	5190	0.65	0.69	94.20	0.26	---	---
		5230	0.65	0.70	92.86	0.32	---	---
11AX20SISO	Ant1	5180	1.32	1.36	97.06	0.13	---	---
		5200	1.31	1.36	96.32	0.16	---	---
		5240	1.31	1.36	96.32	0.16	---	---
11AX40SISO	Ant1	5190	0.65	0.70	92.86	0.32	---	---
		5230	0.65	0.69	94.20	0.26	---	---

Test Graphs

11A_Ant1_5180



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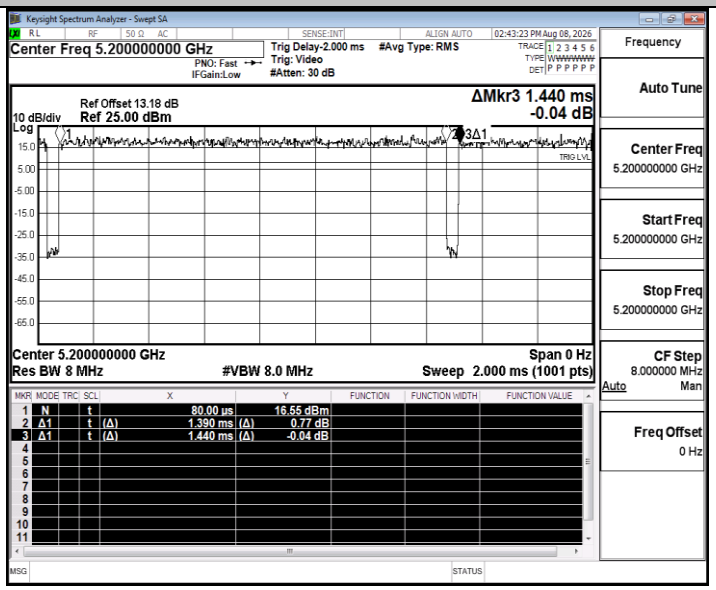

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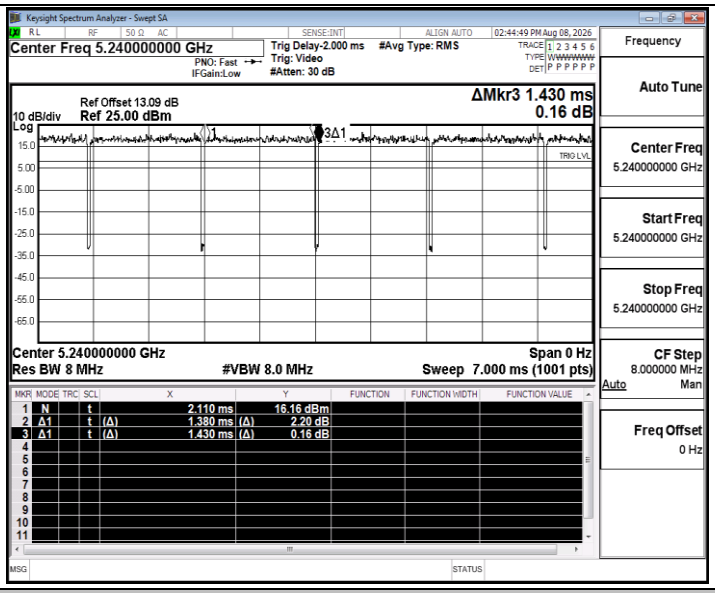

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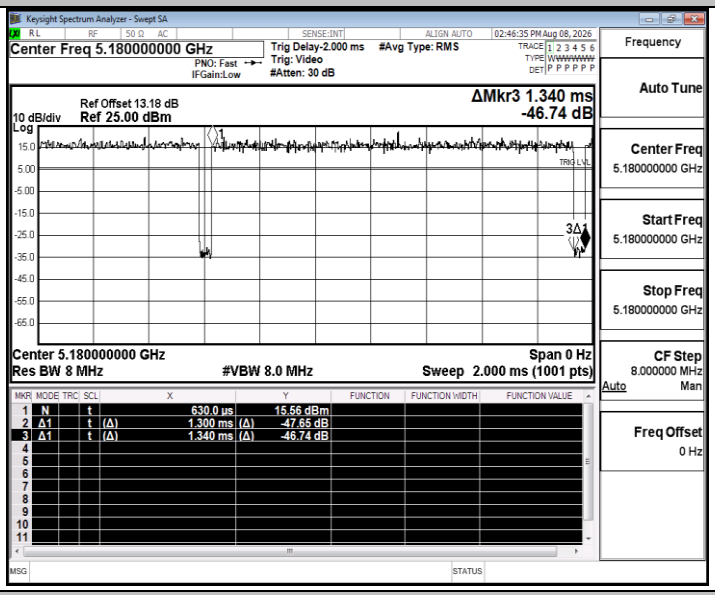

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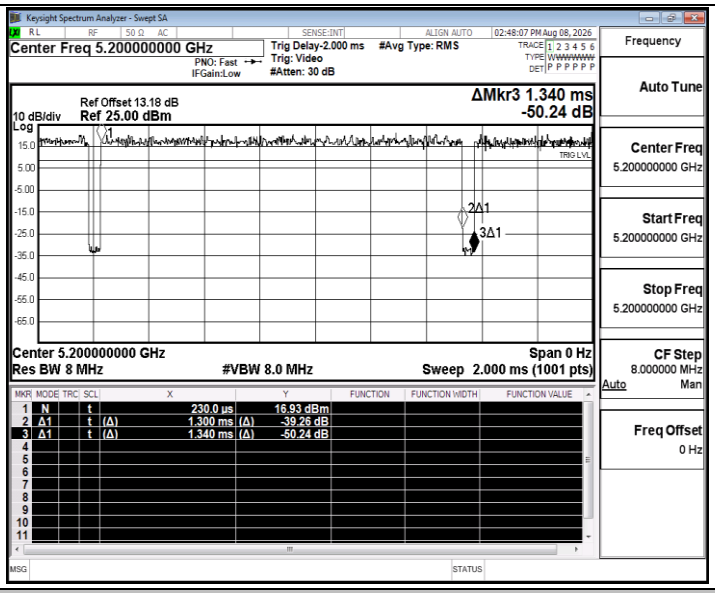

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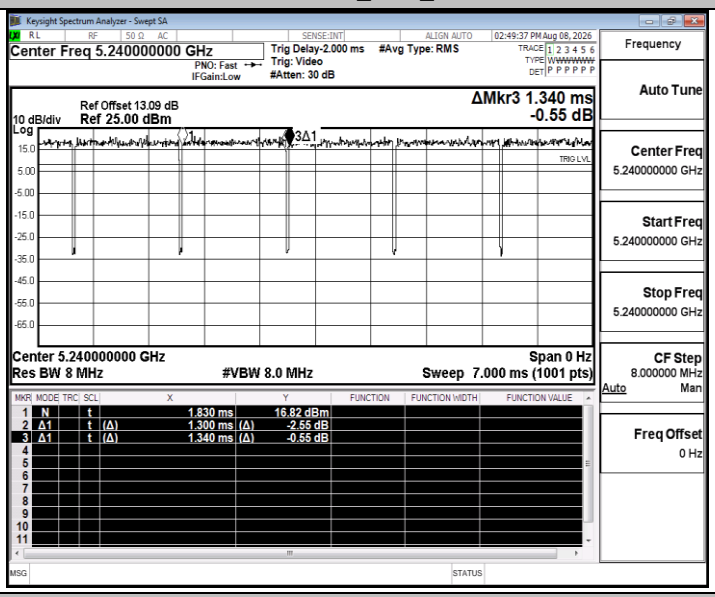

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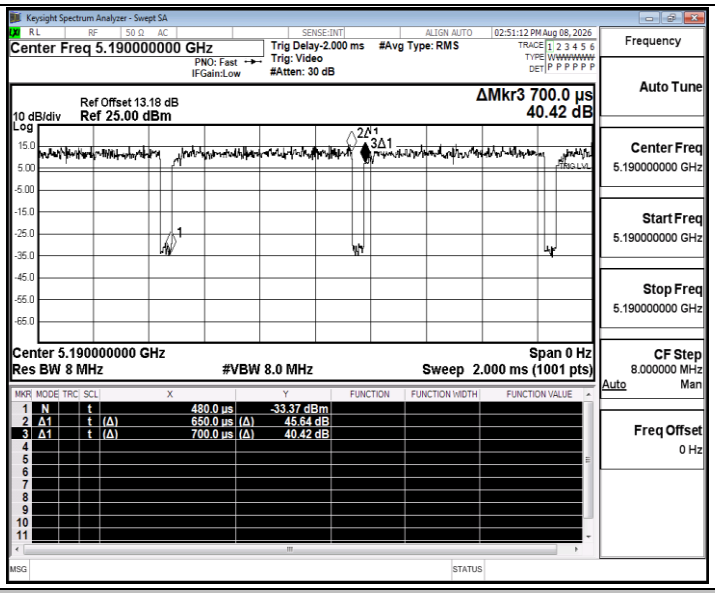

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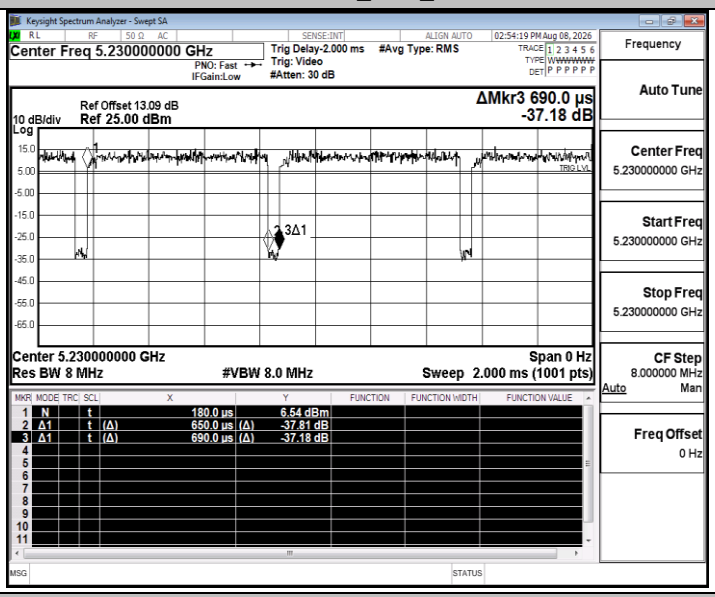

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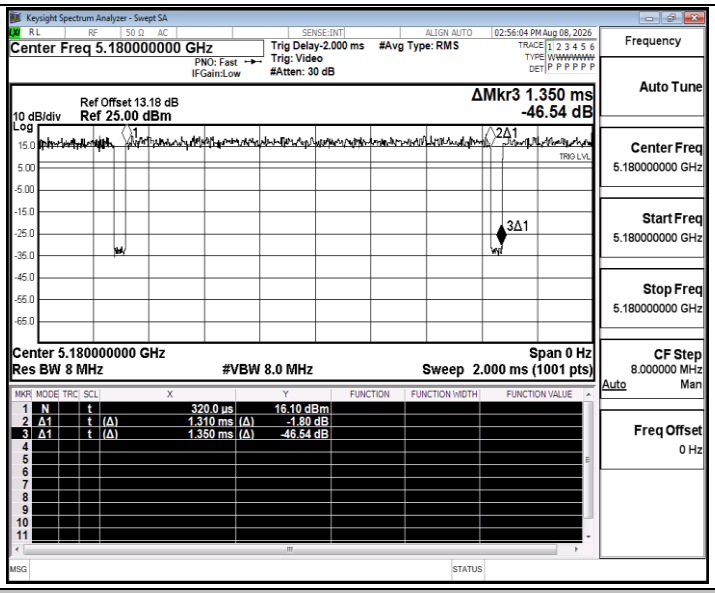

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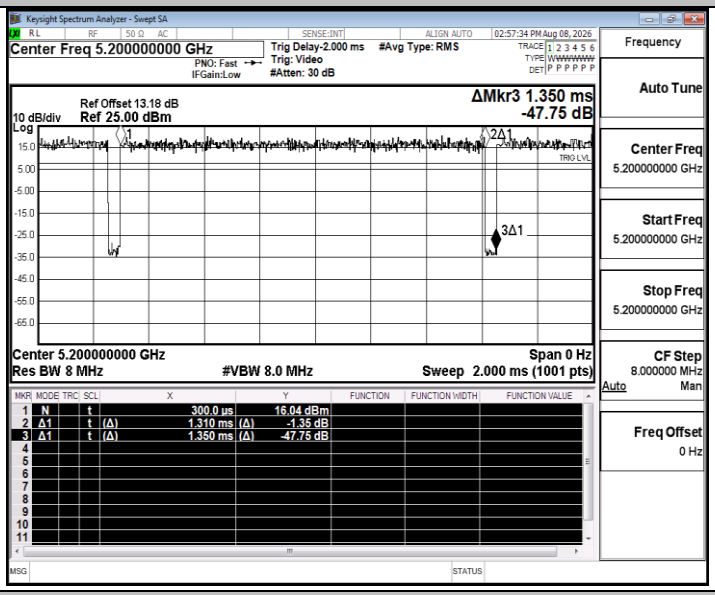

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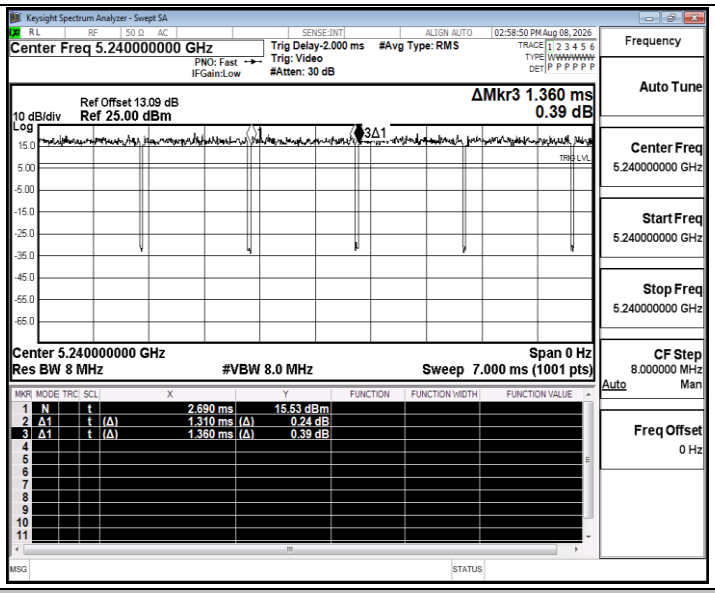

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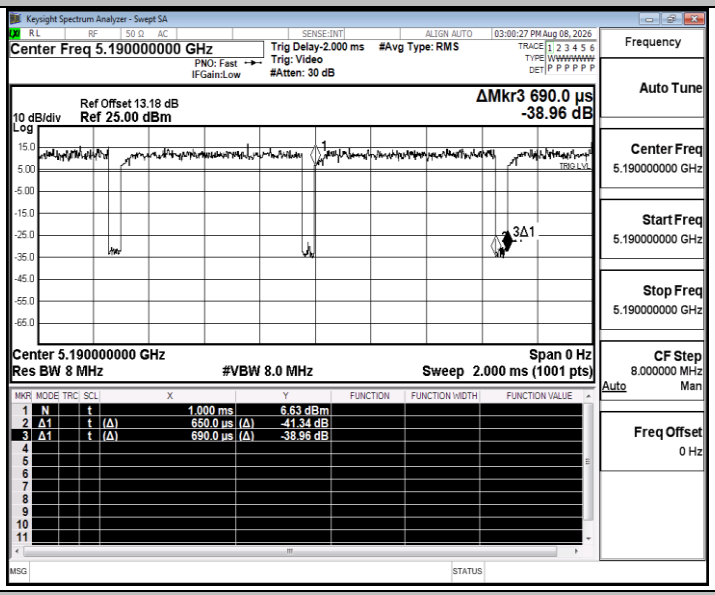

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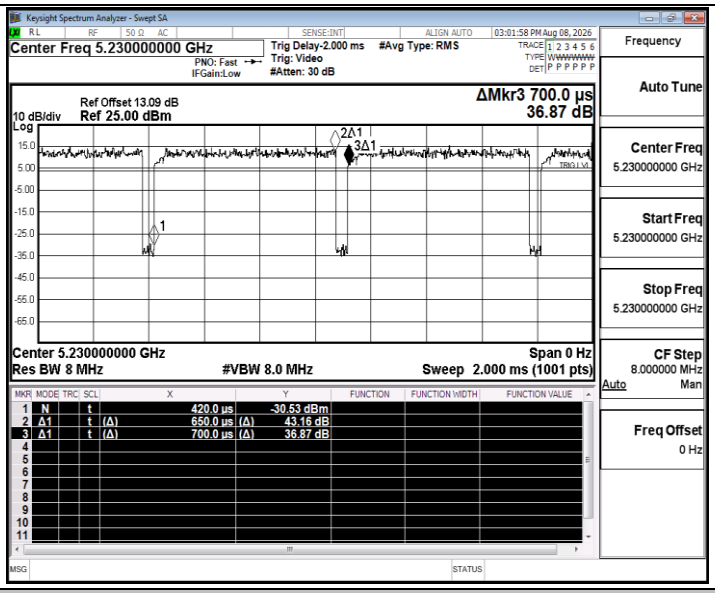

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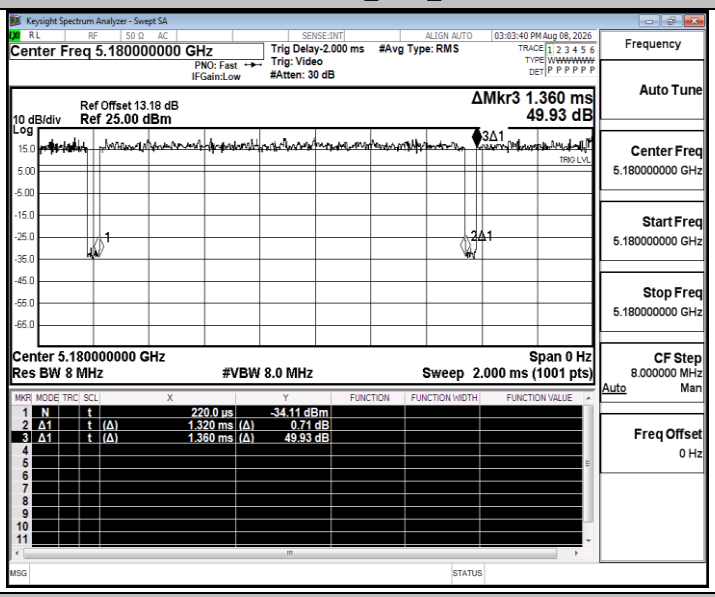

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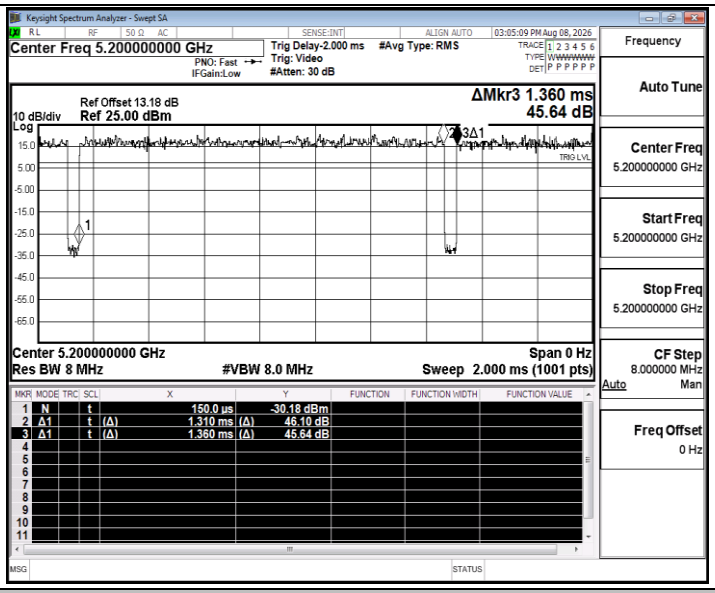

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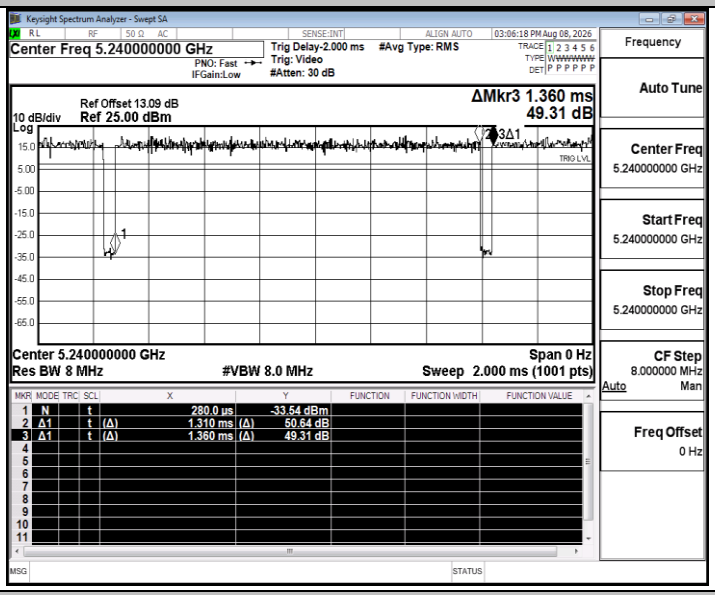

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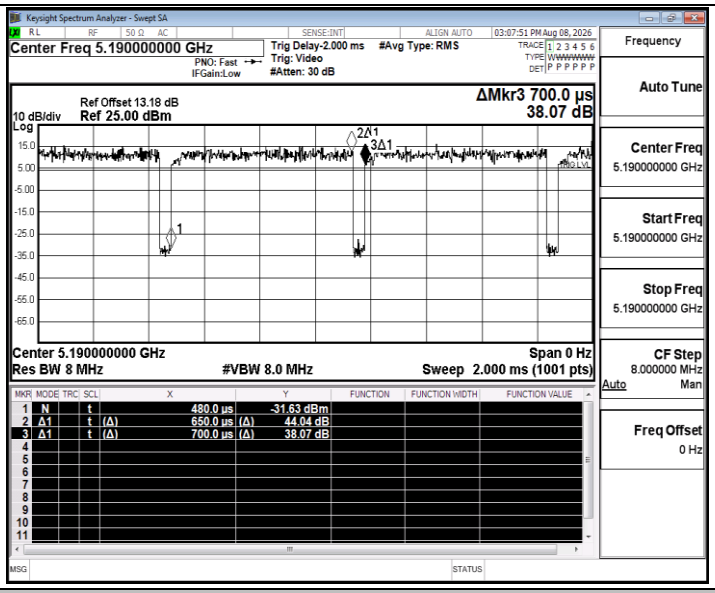
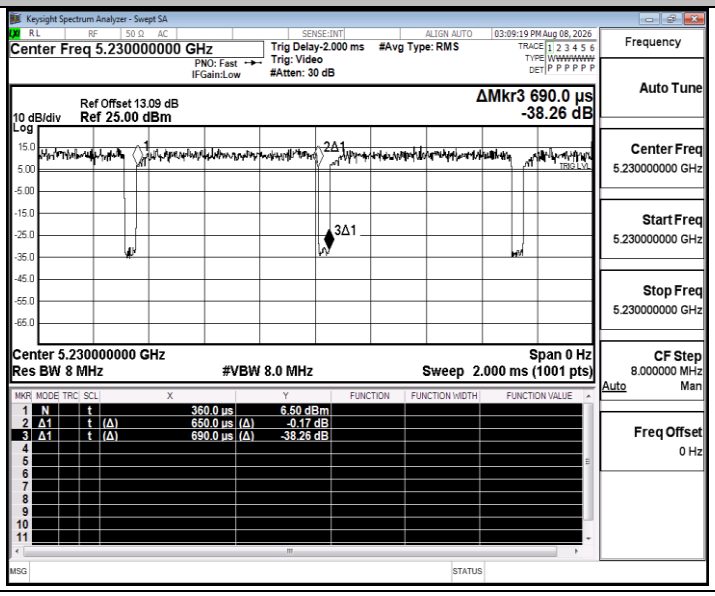
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