

Appendix B

RF Test Data for 5.2GWIFI(Conducted Measurement)

KTM X-BOW GT2

Test Model: KTM X-BOW GT2

Environmental Conditions

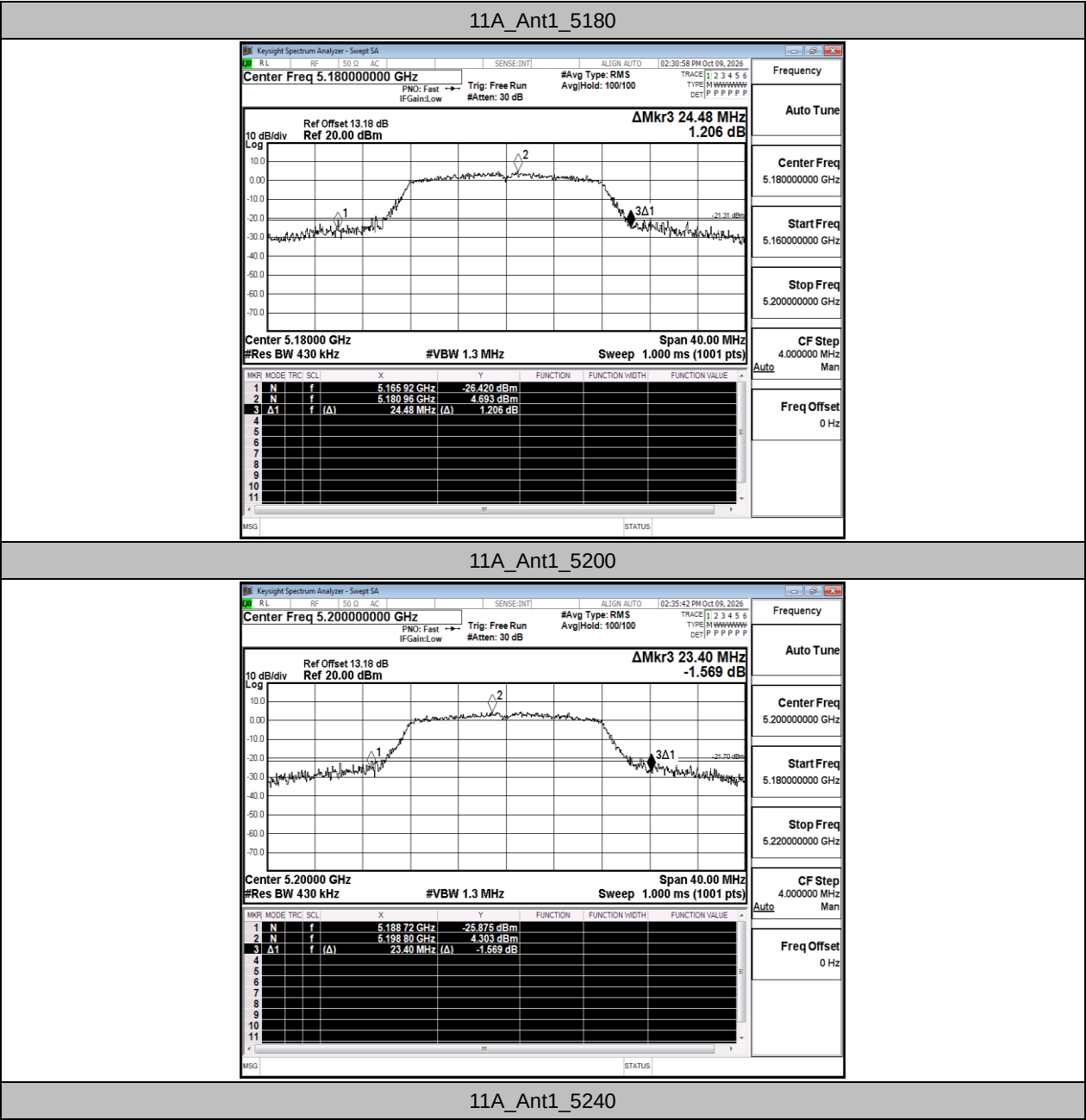
Temperature:	24.5° C
Relative Humidity:	53.8%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

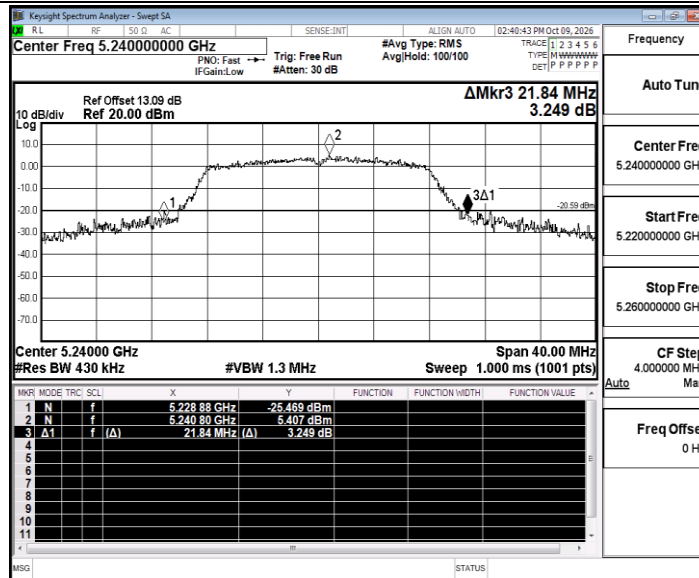
B.1 Emission Bandwidth

Test Result

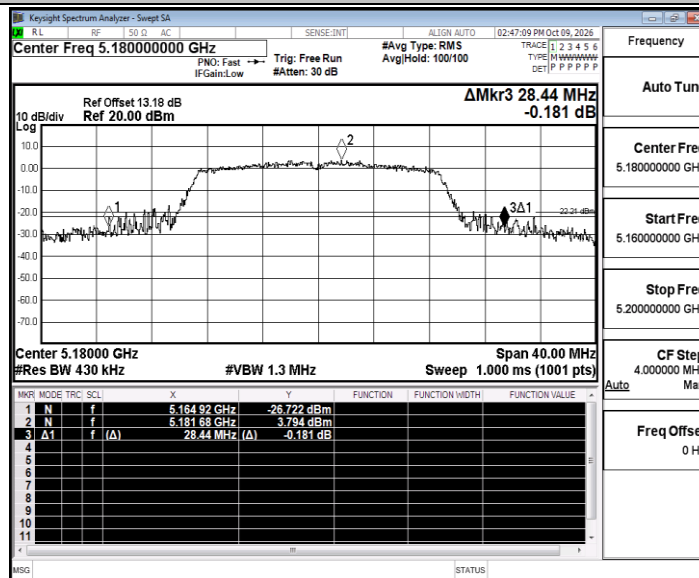
TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	24.480	5165.920	5190.400	---	---
		5200	23.400	5188.720	5212.120	---	---
		5240	21.840	5228.880	5250.720	---	---
11N20SISO	Ant1	5180	28.440	5164.920	5193.360	---	---
		5200	27.080	5186.400	5213.480	---	---
		5240	27.440	5225.800	5253.240	---	---
11N40SISO	Ant1	5190	68.160	5156.400	5224.560	---	---
		5230	61.120	5198.960	5260.080	---	---
11AC20SISO	Ant1	5180	22.120	5169.080	5191.200	---	---
		5200	20.480	5189.760	5210.240	---	---
		5240	20.680	5229.800	5250.480	---	---
11AC40SISO	Ant1	5190	41.040	5169.520	5210.560	---	---
		5230	42.400	5208.400	5250.800	---	---
11AX20SISO	Ant1	5180	20.920	5169.720	5190.640	---	---
		5200	22.400	5187.840	5210.240	---	---
		5240	22.720	5228.440	5251.160	---	---
11AX40SISO	Ant1	5190	43.840	5169.520	5213.360	---	---
		5230	43.440	5209.760	5253.200	---	---

Test Graphs

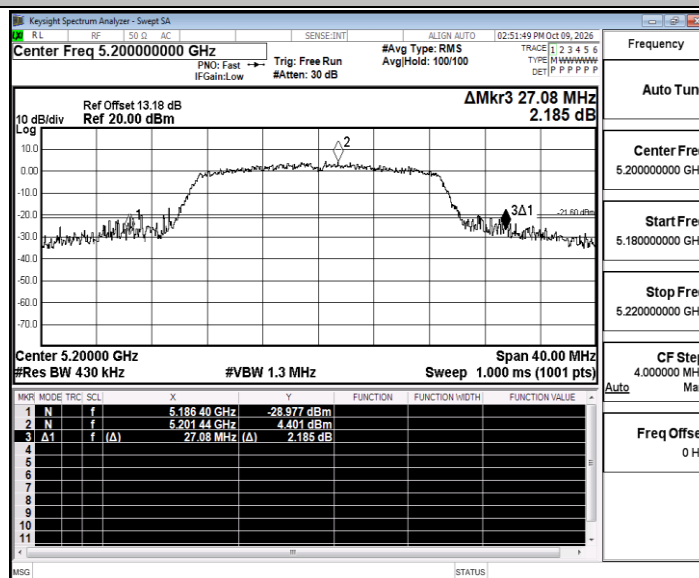




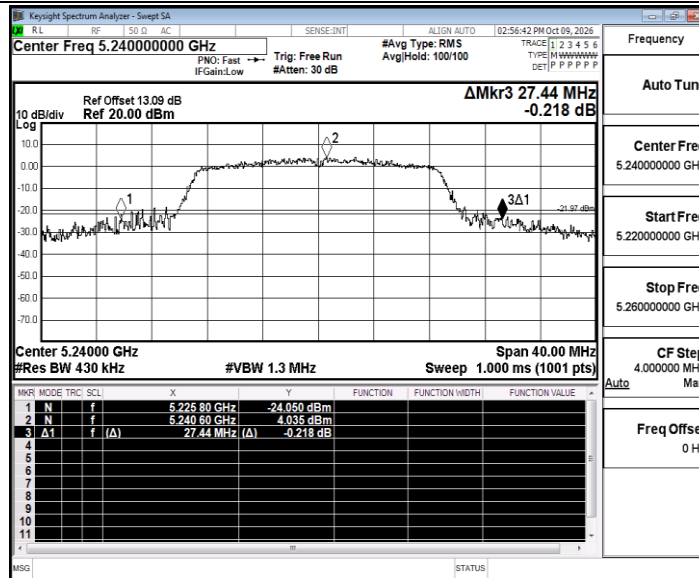
11N20SISO_Ant1_5180



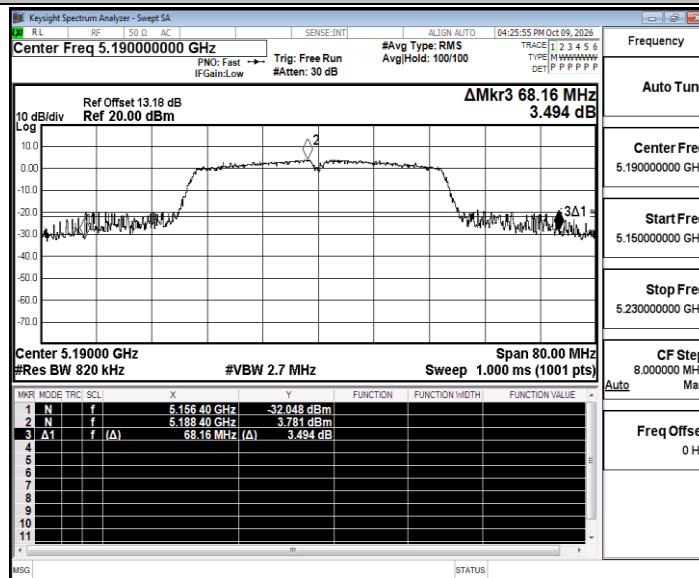
11N20SISO_Ant1_5200



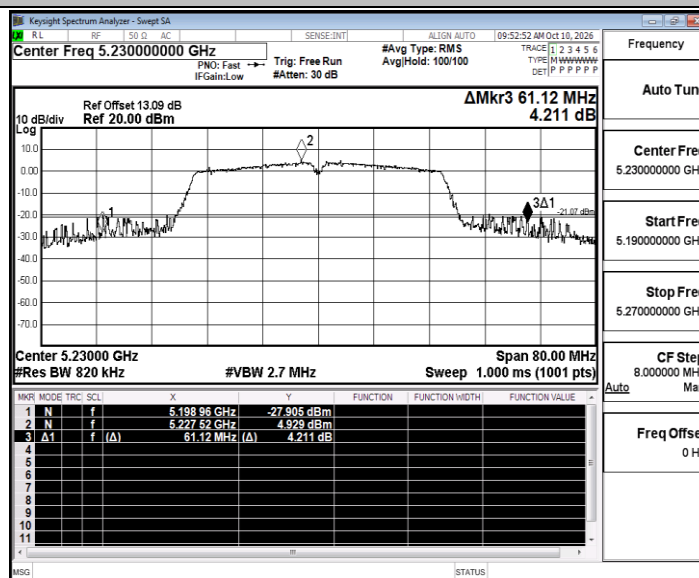
11N20SISO_Ant1_5240



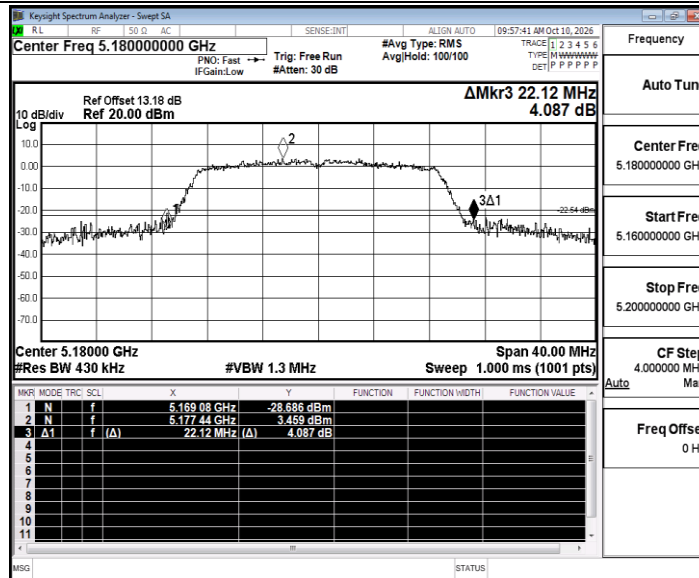
11N40SISO_Ant1_5190



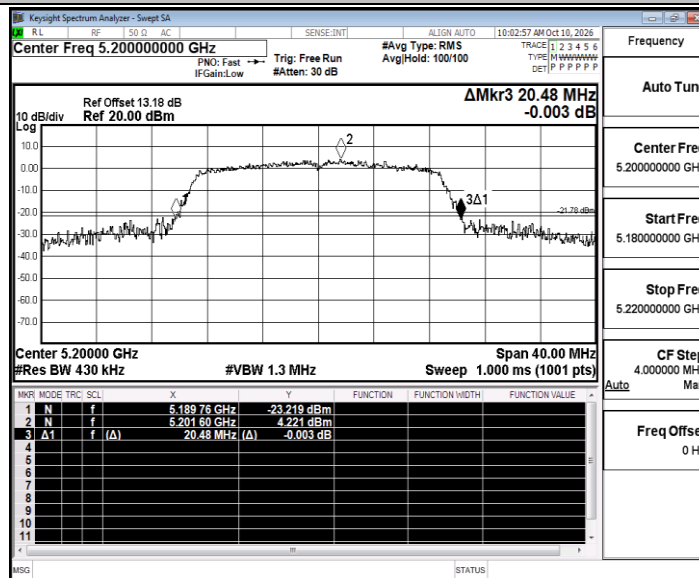
11N40SISO_Ant1_5230



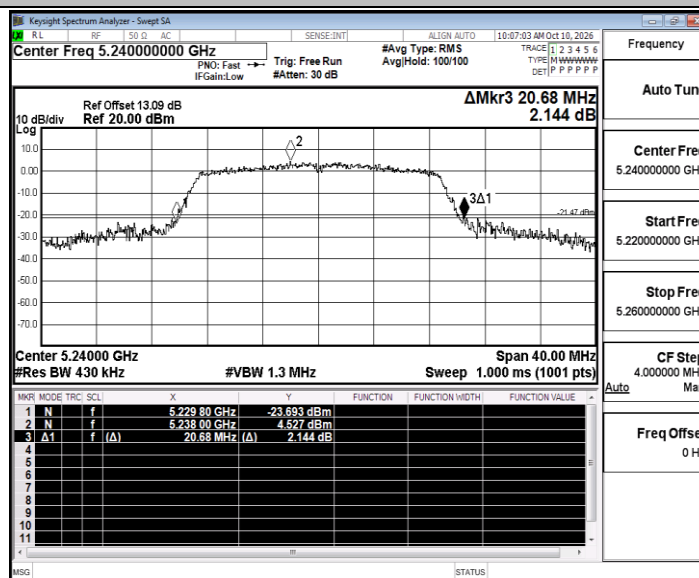
11AC20SISO_Ant1_5180



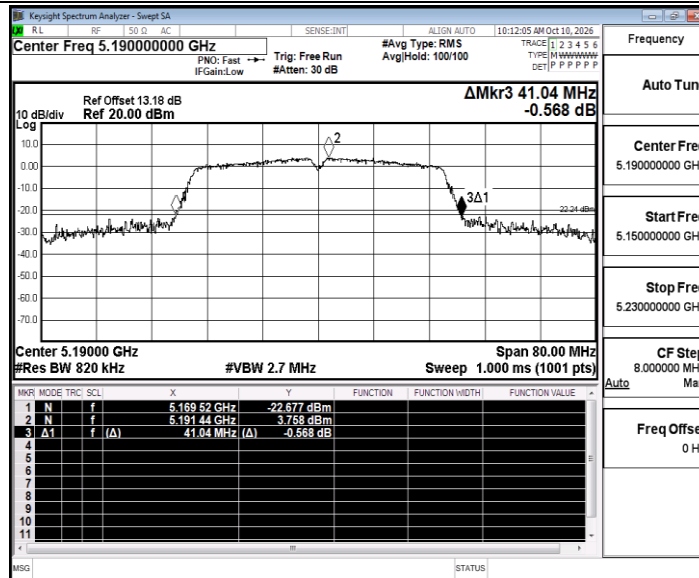
11AC20SISO_Ant1_5200



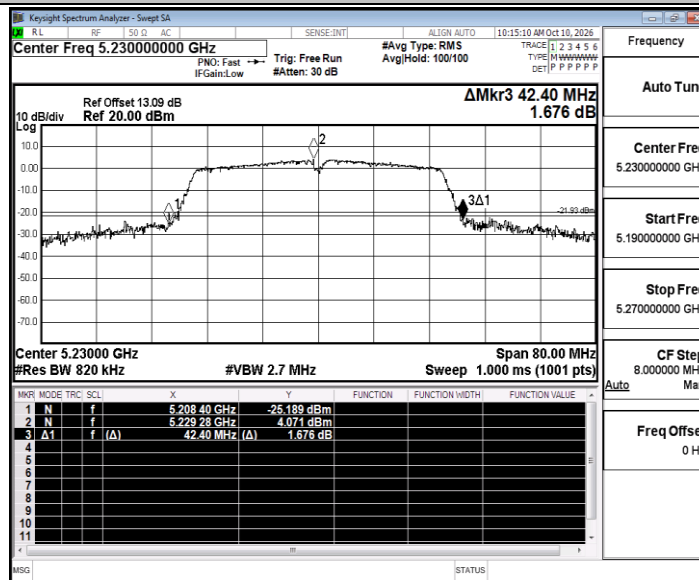
11AC20SISO_Ant1_5240



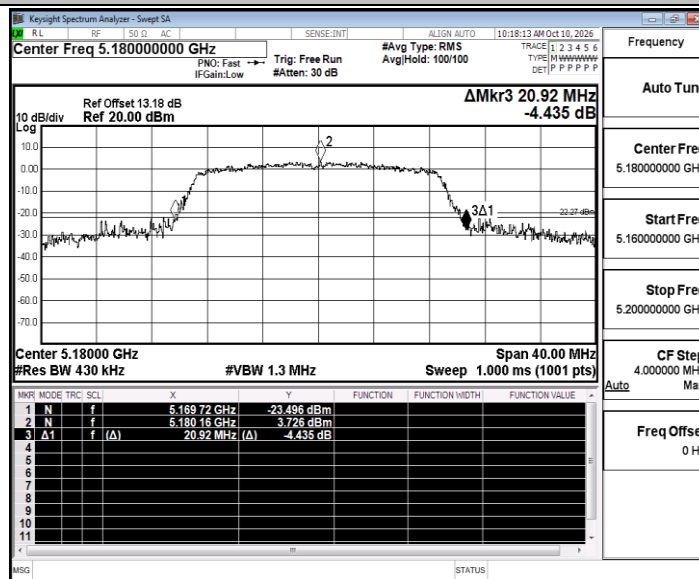
11AC40SISO_Ant1_5190



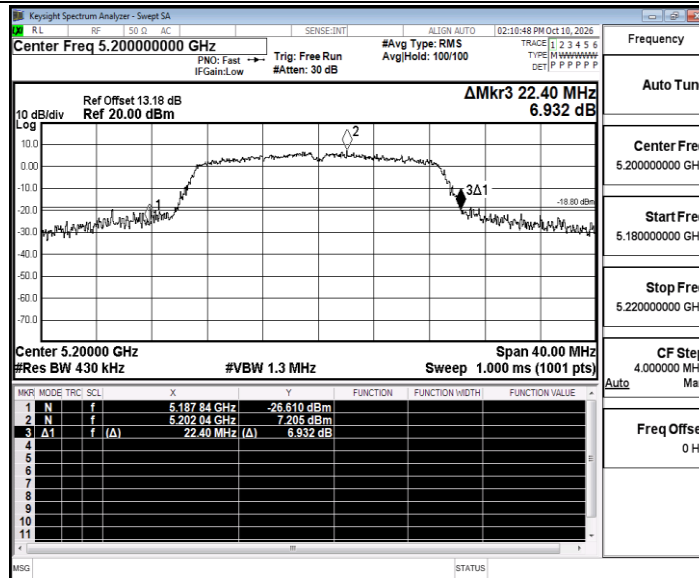
11AC40SISO_Ant1_5230



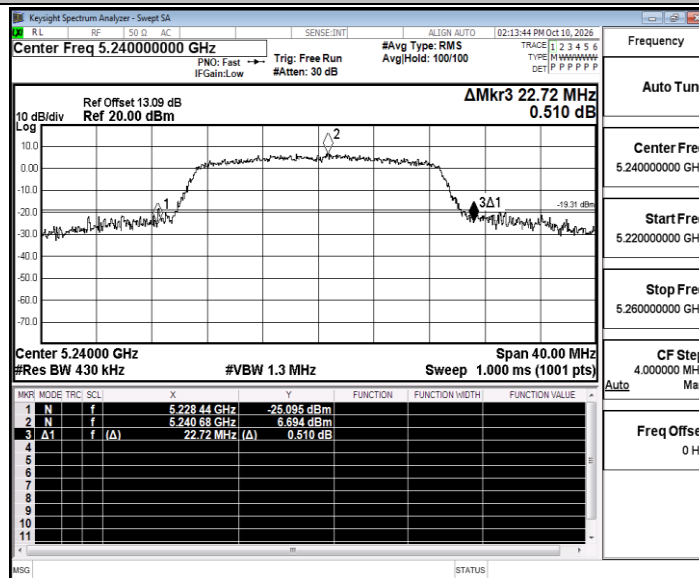
11AX20SISO_Ant1_5180



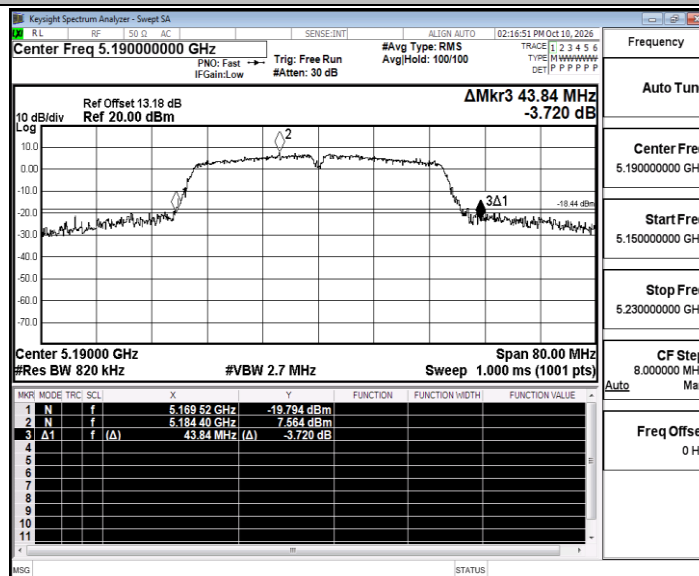
11AX20SISO_Ant1_5200



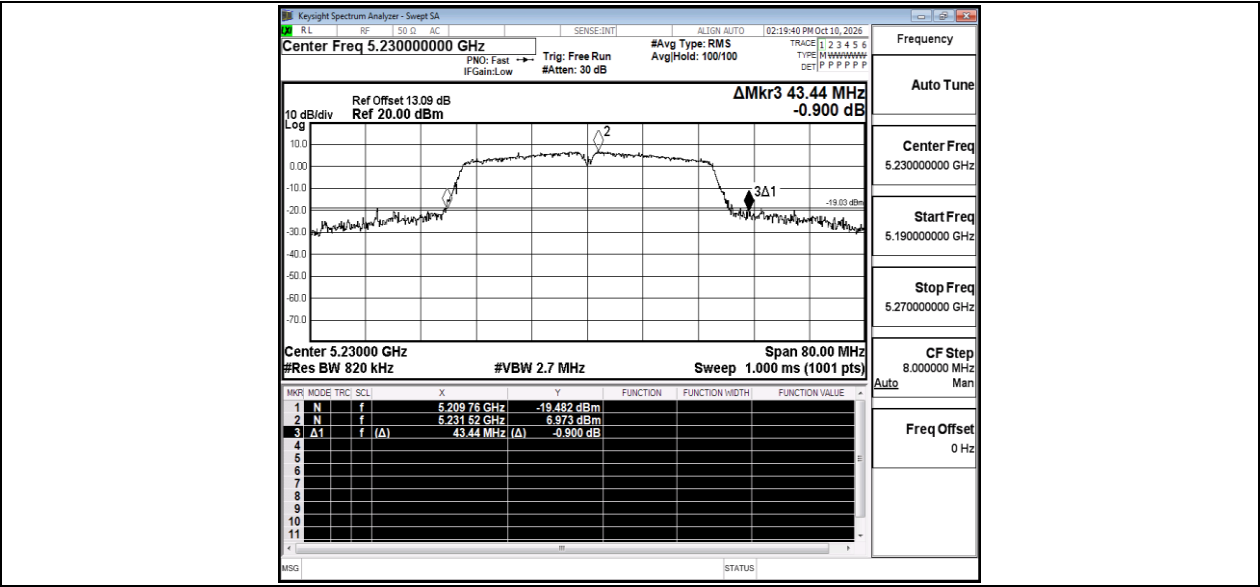
11AX20SISO_Ant1_5240



11AX40SISO_Ant1_5190



11AX40SISO_Ant1_5230



B.2 Maximum conducted output power

Test Result

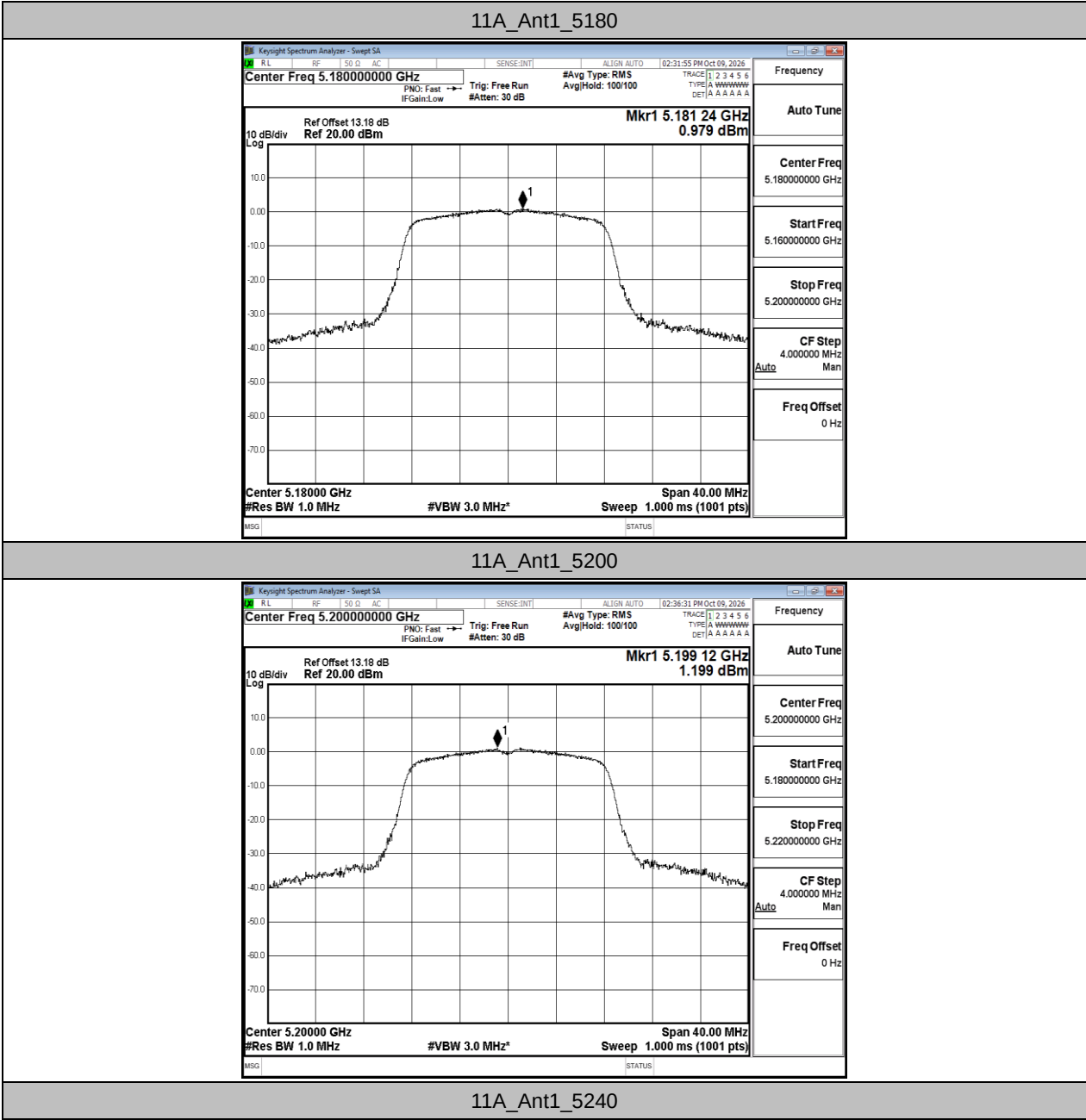
Test Mode	Antenna	Freq(MHz)	TPC Mode	Measured Power [dBm]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	NA	7.39	0.12	7.51	≤23.98	PASS
		5200	NA	7.25	0.12	7.37	≤23.98	PASS
		5240	NA	7.36	0.12	7.48	≤23.98	PASS
11N20SISO	Ant1	5180	NA	6.95	0.17	7.12	≤23.98	PASS
		5200	NA	6.93	0.17	7.1	≤23.98	PASS
		5240	NA	6.84	0.13	6.97	≤23.98	PASS
11N40SISO	Ant1	5190	NA	6.59	0.32	6.91	≤23.98	PASS
		5230	NA	6.73	0.26	6.99	≤23.98	PASS
11AC20SISO	Ant1	5180	NA	6.54	0.13	6.67	≤23.98	PASS
		5200	NA	6.26	0.13	6.39	≤23.98	PASS
		5240	NA	6.61	0.16	6.77	≤23.98	PASS
11AC40SISO	Ant1	5190	NA	6.55	0.26	6.81	≤23.98	PASS
		5230	NA	6.66	0.26	6.92	≤23.98	PASS
11AX20SISO	Ant1	5180	NA	7.33	0.16	7.49	≤23.98	PASS
		5200	NA	7.13	0.16	7.29	≤23.98	PASS
		5240	NA	7.25	0.16	7.41	≤23.98	PASS
11AX40SISO	Ant1	5190	NA	6.55	0.26	6.81	≤23.98	PASS
		5230	NA	6.67	0.32	6.99	≤23.98	PASS

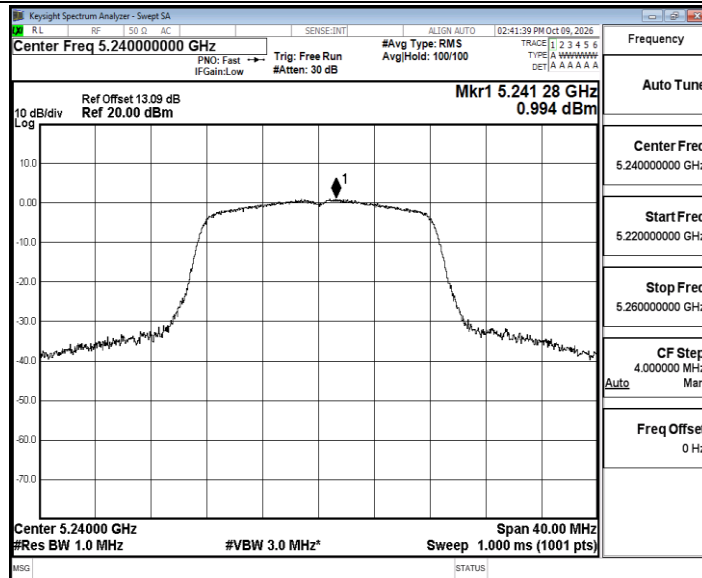
B.3 Maximum power spectral density

Test Result

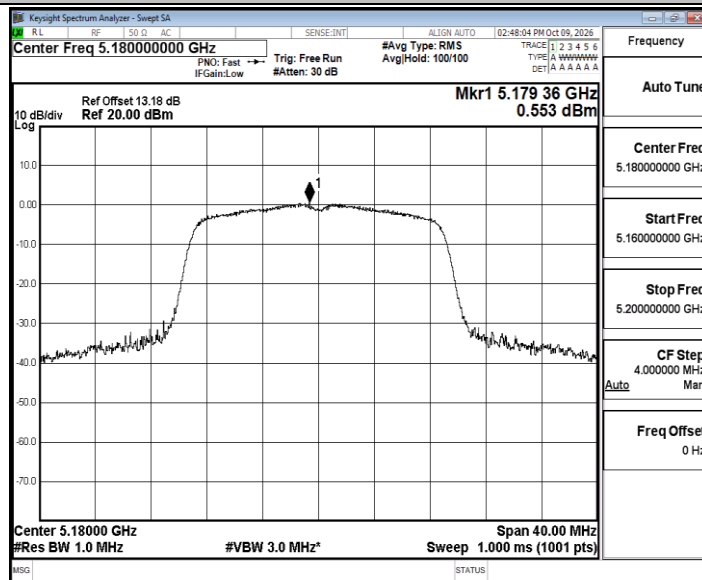
TestMode	Antenna	Freq (MHz)	Raw Data [dBm/MHz]	DC Factor	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	0.98	0.12	1.1	≤11.00	PASS
		5200	1.2	0.12	1.32	≤11.00	PASS
		5240	0.99	0.12	1.11	≤11.00	PASS
11N20SISO	Ant1	5180	0.55	0.17	0.72	≤11.00	PASS
		5200	0.81	0.17	0.98	≤11.00	PASS
		5240	0.68	0.13	0.81	≤11.00	PASS
11N40SISO	Ant1	5190	-2.5	0.32	-2.18	≤11.00	PASS
		5230	-2.34	0.26	-2.08	≤11.00	PASS
11AC20SISO	Ant1	5180	0.56	0.13	0.69	≤11.00	PASS
		5200	0.57	0.13	0.7	≤11.00	PASS
		5240	0.67	0.16	0.83	≤11.00	PASS
11AC40SISO	Ant1	5190	-2.44	0.26	-2.18	≤11.00	PASS
		5230	-2.55	0.26	-2.29	≤11.00	PASS
11AX20SISO	Ant1	5180	0.37	0.16	0.53	≤11.00	PASS
		5200	2.98	0.16	3.14	≤11.00	PASS
		5240	3.19	0.16	3.35	≤11.00	PASS
11AX40SISO	Ant1	5190	0.05	0.26	0.31	≤11.00	PASS
		5230	0.38	0.32	0.7	≤11.00	PASS

Test Graphs

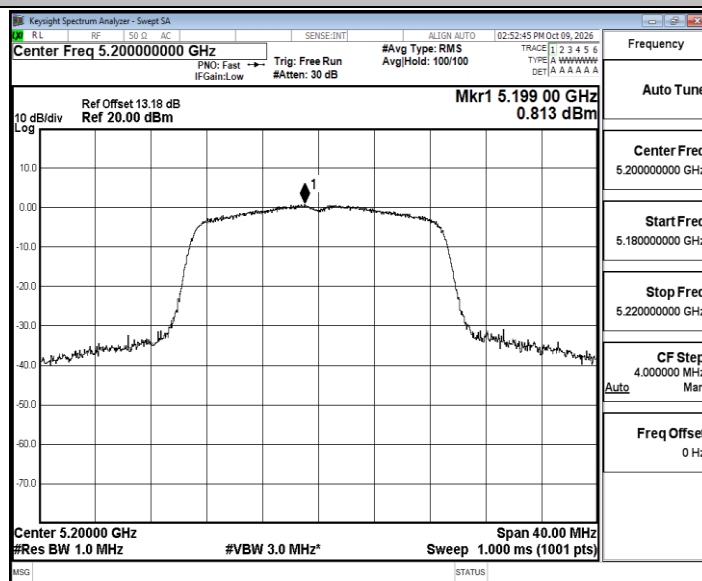




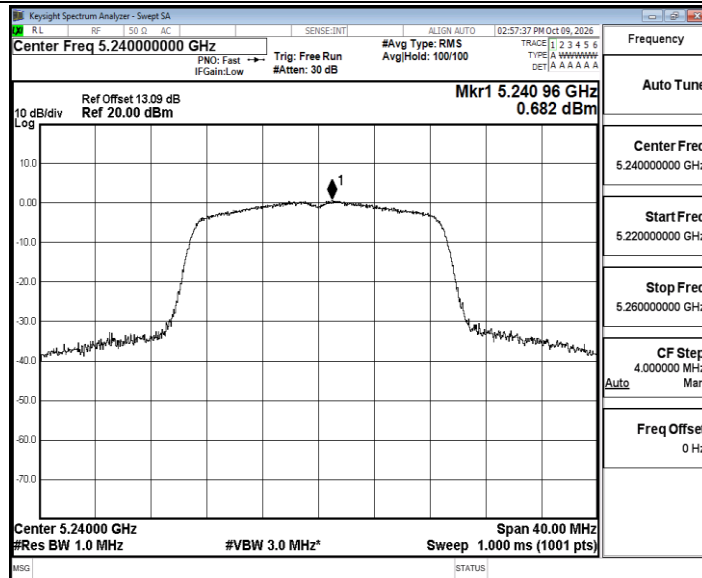
11N20SISO_Ant1_5180



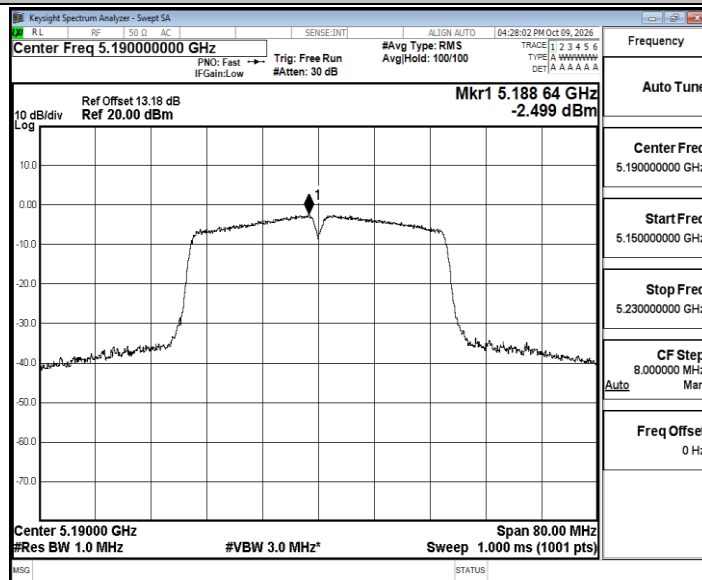
11N20SISO_Ant1_5200



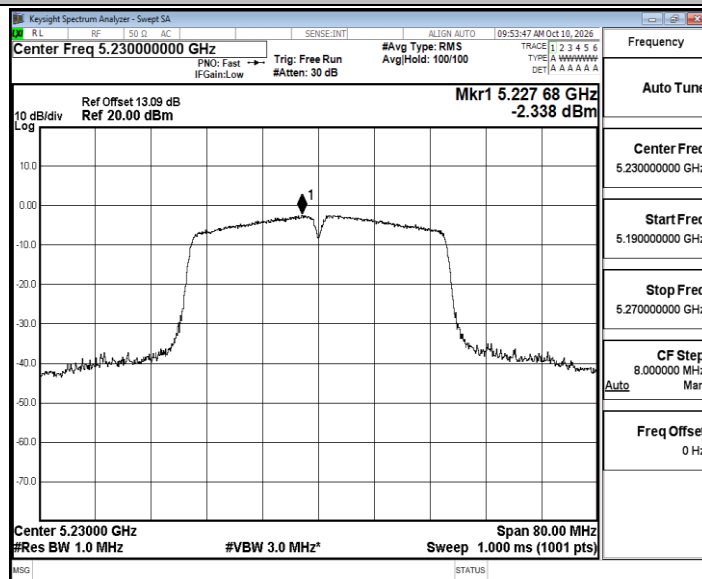
11N20SISO_Ant1_5240



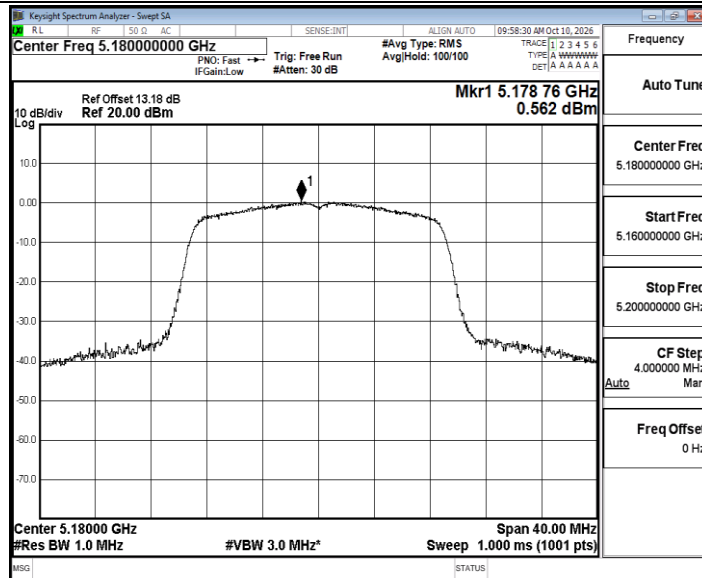
11N40SISO_Ant1_5190



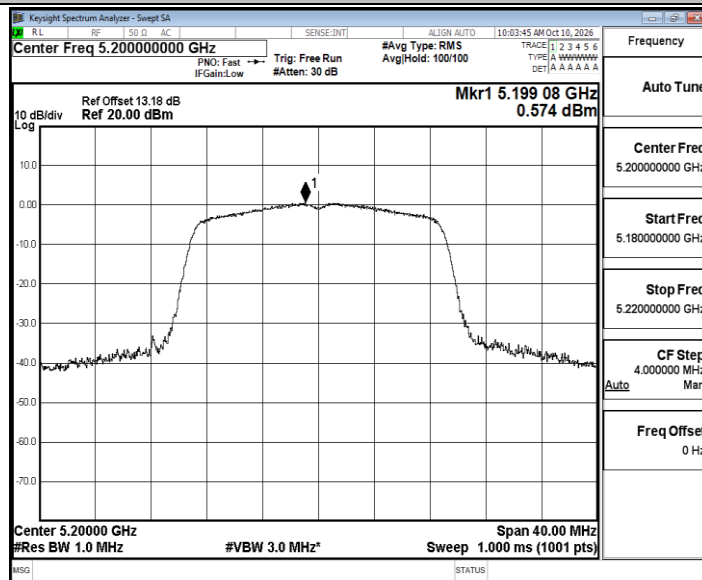
11N40SISO_Ant1_5230



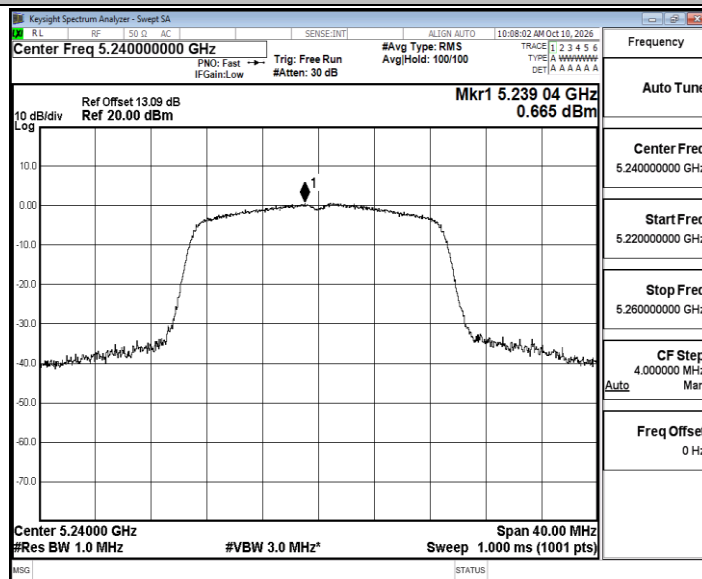
11AC20SISO_Ant1_5180



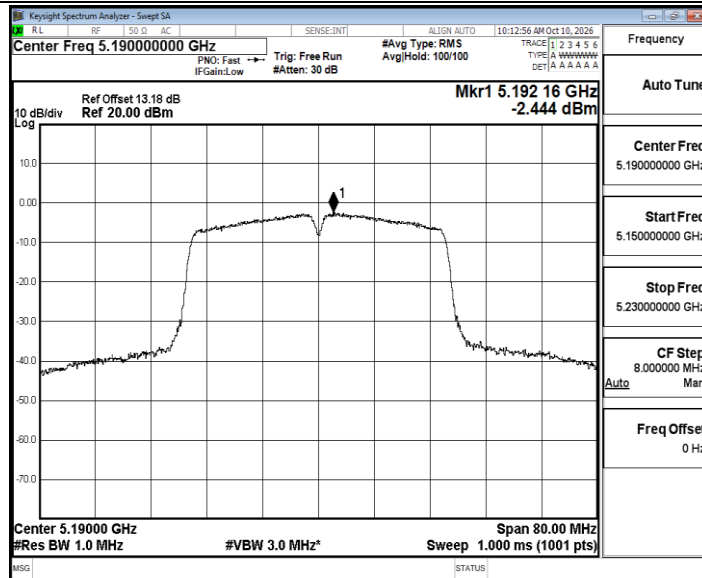
11AC20SISO_Ant1_5200



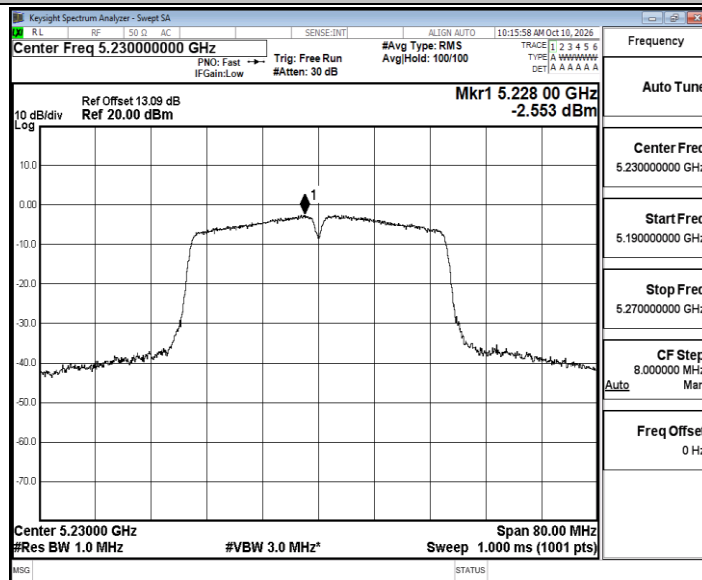
11AC20SISO_Ant1_5240



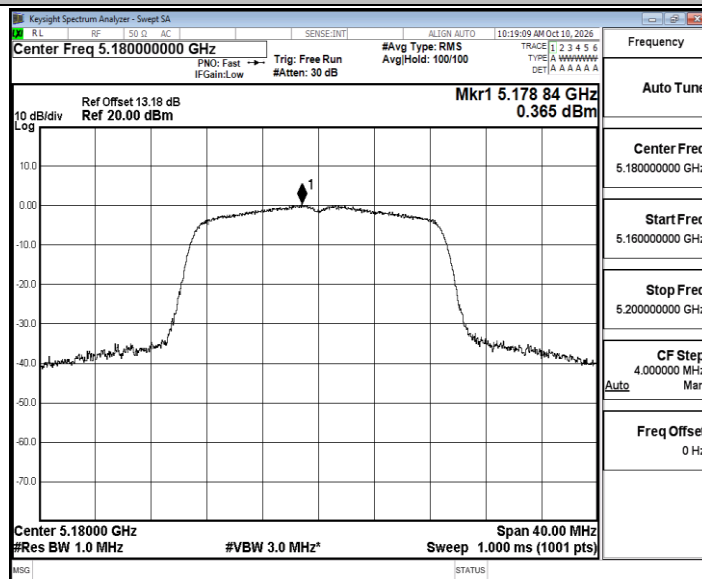
11AC40SISO_Ant1_5190



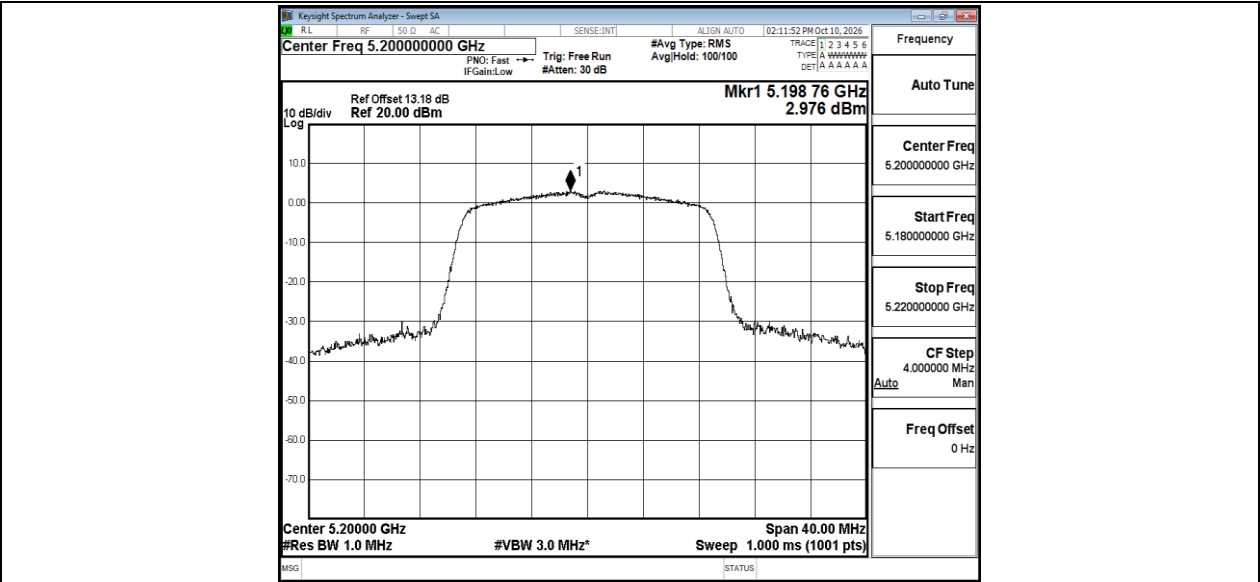
11AC40SISO_Ant1_5230



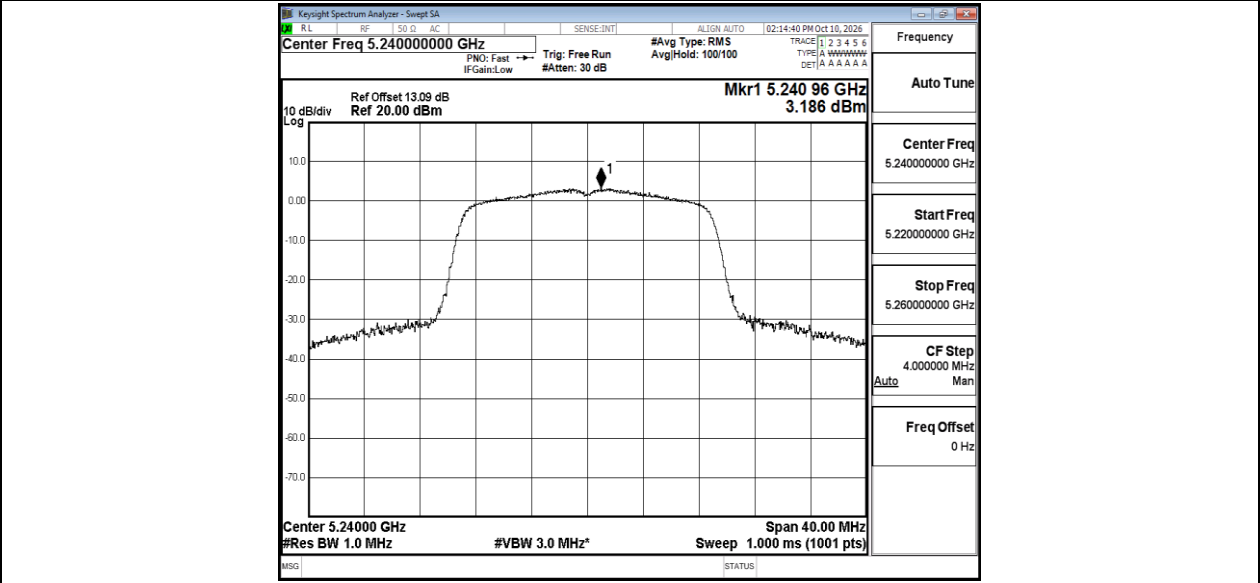
11AX20SISO_Ant1_5180



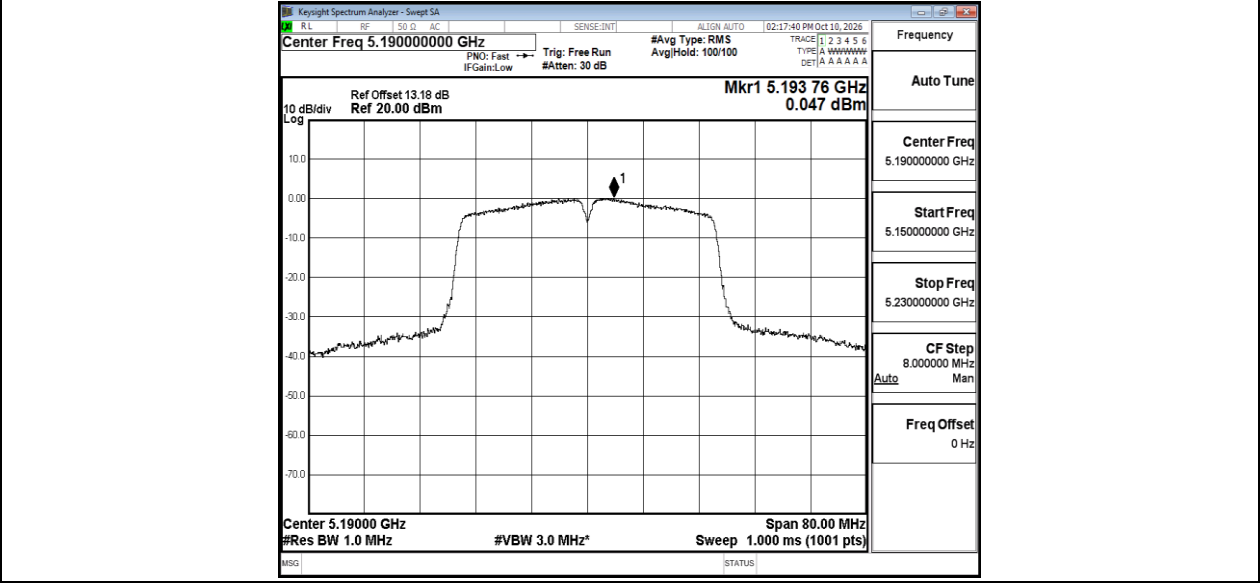
11AX20SISO_Ant1_5200



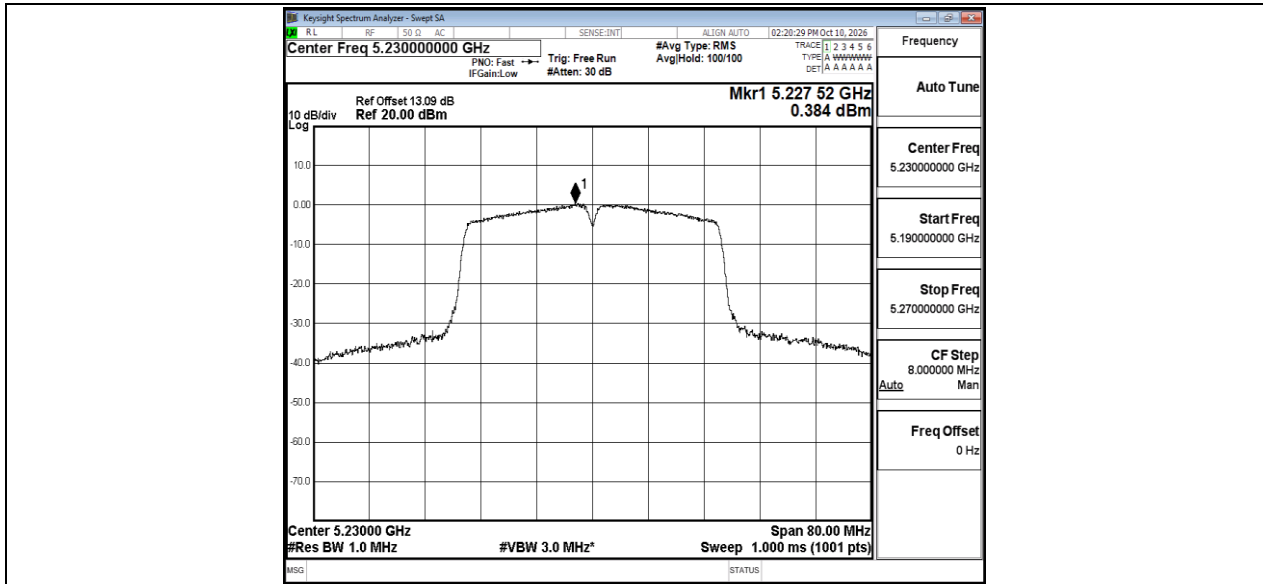
11AX20SISO_Ant1_5240



11AX40SISO_Ant1_5190



11AX40SISO_Ant1_5230



B.4 Emissions in Restricted Bands

Test Result

TestM ode	Anten na	ChNa me	Freq (MHz)	Detect or	Freq [MHz]	Result [dBm]	Limit [dBm]	Gain [dBi]	DC Factor [dB]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	Low	5180	AV	4500.000	-57.59	≤-44.32	4.91	0.12	42.67	≤54	PASS
				AV	5148.200	-49.12	≤-44.32	4.91	0.12	51.14	≤54	PASS
				AV	5150.000	-49.04	≤-44.32	4.91	0.12	51.22	≤54	PASS
				Peak	4500.000	-48.12	≤-30.00	4.91	0	52.02	≤68.2	PASS
				Peak	5148.900	-36.85	≤-30.00	4.91	0	63.29	≤68.2	PASS
				Peak	5150.000	-37.38	≤-30.00	4.91	0	62.76	≤68.2	PASS
		High	5240	AV	5350.000	-55.68	≤-44.32	4.91	0.12	44.58	≤54	PASS
				AV	5351.280	-55.38	≤-44.32	4.91	0.12	44.88	≤54	PASS
				AV	5460.000	-56.96	≤-44.32	4.91	0.12	43.30	≤54	PASS
				Peak	5350.000	-47.86	≤-30.00	4.91	0	52.28	≤68.2	PASS
				Peak	5361.120	-45.56	≤-30.00	4.91	0	54.58	≤68.2	PASS
				Peak	5460.000	-50.09	≤-30.00	4.91	0	50.05	≤68.2	PASS
11N20 SISO	Ant1	Low	5180	AV	4500.000	-58.51	≤-44.37	4.91	0.17	41.80	≤54	PASS
				AV	5149.600	-49.37	≤-44.37	4.91	0.17	50.94	≤54	PASS
				AV	5150.000	-48.38	≤-44.37	4.91	0.17	51.93	≤54	PASS
				Peak	4500.000	-49.76	≤-30.00	4.91	0	50.38	≤68.2	PASS
				Peak	5149.600	-33.19	≤-30.00	4.91	0	66.95	≤68.2	PASS
				Peak	5150.000	-32.19	≤-30.00	4.91	0	67.95	≤68.2	PASS
		High	5240	AV	5350.000	-55.72	≤-44.33	4.91	0.13	44.55	≤54	PASS
				AV	5351.520	-55.41	≤-44.33	4.91	0.13	44.86	≤54	PASS
				AV	5460.000	-56.88	≤-44.33	4.91	0.13	43.39	≤54	PASS
				Peak	5350.000	-45.66	≤-30.00	4.91	0	54.48	≤68.2	PASS
				Peak	5350.080	-45.66	≤-30.00	4.91	0	54.48	≤68.2	PASS
				Peak	5460.000	-48.29	≤-30.00	4.91	0	51.85	≤68.2	PASS
11N40 SISO	Ant1	Low	5190	AV	4500.000	-58.67	≤-44.52	4.91	0.32	41.79	≤54	PASS
				AV	5148.900	-51.12	≤-44.52	4.91	0.32	49.34	≤54	PASS
				AV	5150.000	-52.08	≤-44.52	4.91	0.32	48.38	≤54	PASS
				Peak	4500.000	-49.15	≤-30.00	4.91	0	50.99	≤68.2	PASS
				Peak	5149.600	-41.66	≤-30.00	4.91	0	58.48	≤68.2	PASS
				Peak	5150.000	-41.42	≤-30.00	4.91	0	58.72	≤68.2	PASS
		High	5230	AV	5350.000	-55.54	≤-44.46	4.91	0.26	44.86	≤54	PASS
				AV	5357.040	-55.31	≤-44.46	4.91	0.26	45.09	≤54	PASS
				AV	5460.000	-57.33	≤-44.46	4.91	0.26	43.07	≤54	PASS
				Peak	5350.000	-47.5	≤-30.00	4.91	0	52.64	≤68.2	PASS
				Peak	5358.860	-45.63	≤-30.00	4.91	0	54.51	≤68.2	PASS
				Peak	5460.000	-49.26	≤-30.00	4.91	0	50.88	≤68.2	PASS
11AC 20SIS	Ant1	Low	5180	AV	4500.000	-58.47	≤-44.33	4.91	0.13	41.80	≤54	PASS
				AV	5149.600	-50.82	≤-44.33	4.91	0.13	49.45	≤54	PASS

O				AV	5150.000	-50.36	≤-44.33	4.91	0.13	49.91	≤54	PASS
				Peak	4500.000	-49.62	≤-30.00	4.91	0	50.52	≤68.2	PASS
				Peak	5147.500	-36.83	≤-30.00	4.91	0	63.31	≤68.2	PASS
				Peak	5150.000	-42.48	≤-30.00	4.91	0	57.66	≤68.2	PASS
		High	5240	AV	5350.000	-55.92	≤-44.36	4.91	0.16	44.38	≤54	PASS
				AV	5352.720	-55.39	≤-44.36	4.91	0.16	44.91	≤54	PASS
				AV	5460.000	-57.55	≤-44.36	4.91	0.16	42.75	≤54	PASS
				Peak	5350.000	-47.12	≤-30.00	4.91	0	53.02	≤68.2	PASS
				Peak	5355.120	-45.6	≤-30.00	4.91	0	54.54	≤68.2	PASS
				Peak	5460.000	-48.13	≤-30.00	4.91	0	52.01	≤68.2	PASS
11AC 40SIS O	Ant1	Low	5190	AV	4500.000	-58.28	≤-44.46	4.91	0.26	42.12	≤54	PASS
				AV	5149.600	-55.58	≤-44.46	4.91	0.26	44.82	≤54	PASS
				AV	5150.000	-56.09	≤-44.46	4.91	0.26	44.31	≤54	PASS
				Peak	4500.000	-49.24	≤-30.00	4.91	0	50.90	≤68.2	PASS
				Peak	5148.900	-33.78	≤-30.00	4.91	0	66.36	≤68.2	PASS
				Peak	5150.000	-33.35	≤-30.00	4.91	0	66.79	≤68.2	PASS
		High	5230	AV	5350.000	-55.82	≤-44.46	4.91	0.26	44.58	≤54	PASS
				AV	5353.920	-55.5	≤-44.46	4.91	0.26	44.90	≤54	PASS
				AV	5460.000	-57.35	≤-44.46	4.91	0.26	43.05	≤54	PASS
				Peak	5350.000	-47.85	≤-30.00	4.91	0	52.29	≤68.2	PASS
				Peak	5371.080	-45.62	≤-30.00	4.91	0	54.52	≤68.2	PASS
				Peak	5460.000	-48.55	≤-30.00	4.91	0	51.59	≤68.2	PASS
11AX 20SIS O	Ant1	Low	5180	AV	4500.000	-57.64	≤-44.36	4.91	0.16	42.66	≤54	PASS
				AV	5149.600	-50.33	≤-44.36	4.91	0.16	49.97	≤54	PASS
				AV	5150.000	-50.28	≤-44.36	4.91	0.16	50.02	≤54	PASS
				Peak	4500.000	-49.61	≤-30.00	4.91	0	50.53	≤68.2	PASS
				Peak	5149.600	-38.67	≤-30.00	4.91	0	61.47	≤68.2	PASS
				Peak	5150.000	-37.33	≤-30.00	4.91	0	62.81	≤68.2	PASS
		High	5240	AV	5350.000	-55.16	≤-44.36	4.91	0.16	45.14	≤54	PASS
				AV	5351.520	-54.39	≤-44.36	4.91	0.16	45.91	≤54	PASS
				AV	5460.000	-57.35	≤-44.36	4.91	0.16	42.95	≤54	PASS
				Peak	5350.000	-47.34	≤-30.00	4.91	0	52.80	≤68.2	PASS
				Peak	5372.640	-44.17	≤-30.00	4.91	0	55.97	≤68.2	PASS
				Peak	5460.000	-48.79	≤-30.00	4.91	0	51.35	≤68.2	PASS
11AX 40SIS O	Ant1	Low	5190	AV	4500.000	-57.73	≤-44.46	4.91	0.26	42.67	≤54	PASS
				AV	5149.600	-52.06	≤-44.46	4.91	0.26	48.34	≤54	PASS
				AV	5150.000	-52.28	≤-44.46	4.91	0.26	48.12	≤54	PASS
				Peak	4500.000	-49.75	≤-30.00	4.91	0	50.39	≤68.2	PASS
				Peak	5141.200	-41.38	≤-30.00	4.91	0	58.76	≤68.2	PASS
				Peak	5150.000	-44.5	≤-30.00	4.91	0	55.64	≤68.2	PASS
		High	5230	AV	5350.000	-54.56	≤-44.52	4.91	0.32	45.90	≤54	PASS
				AV	5352.100	-54.25	≤-44.52	4.91	0.32	46.21	≤54	PASS
				AV	5460.000	-57.09	≤-44.52	4.91	0.32	43.37	≤54	PASS
				Peak	5350.000	-46.81	≤-30.00	4.91	0	53.33	≤68.2	PASS

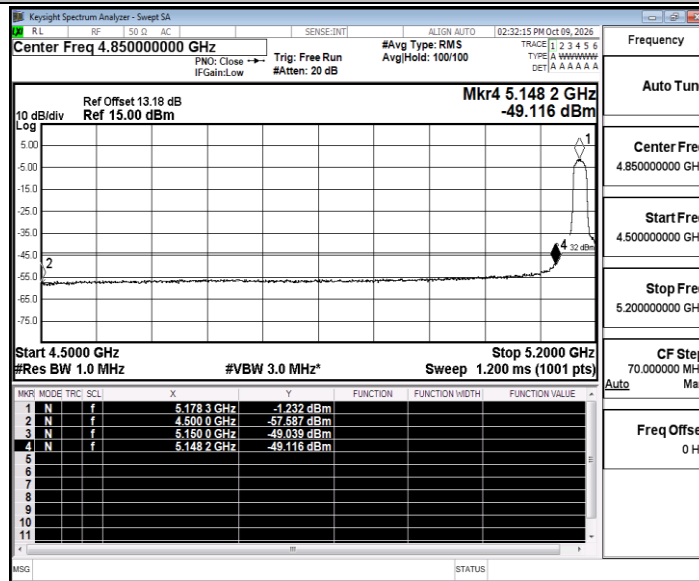
				Peak	5372.640	-45.13	≤-30.00	4.91	0	55.01	≤68.2	PASS
				Peak	5460.000	-48.57	≤-30.00	4.91	0	51.57	≤68.2	PASS

Note:

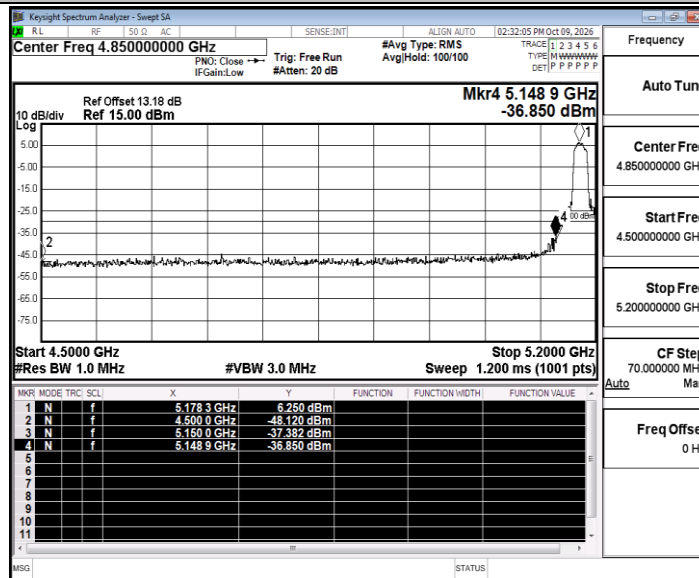
- 1. The Antenna Gain is compensated in the graph.

Test Graphs

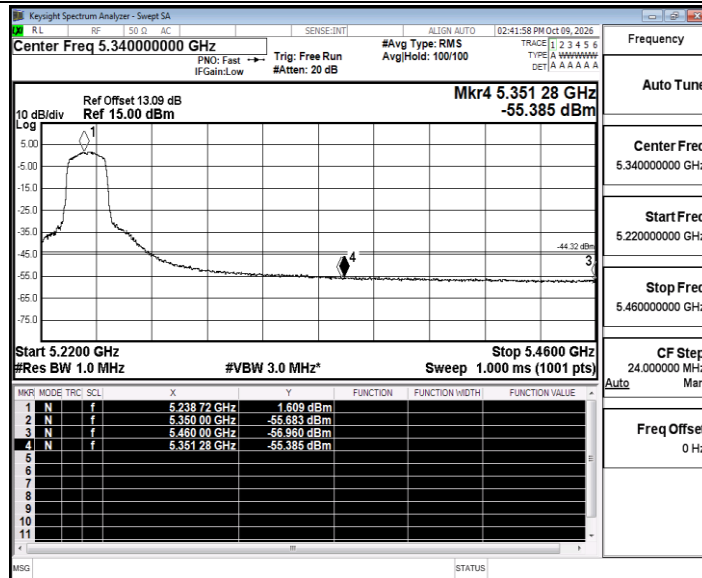
11A_Ant1_Low_5180_AV



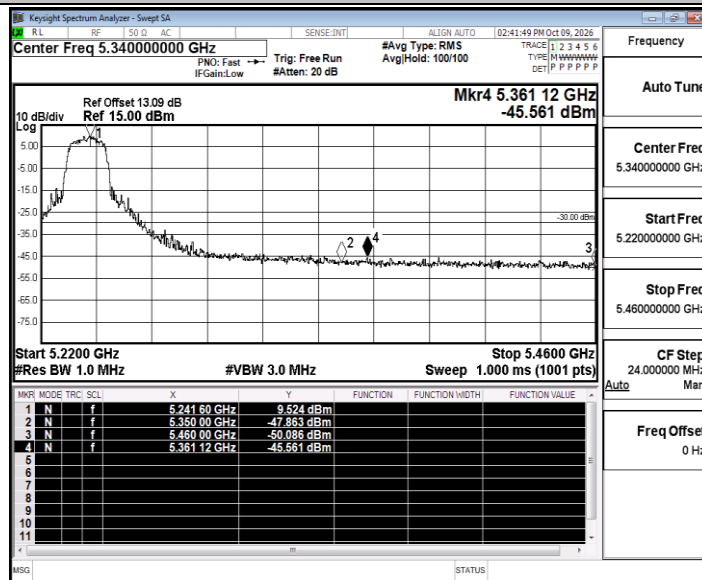
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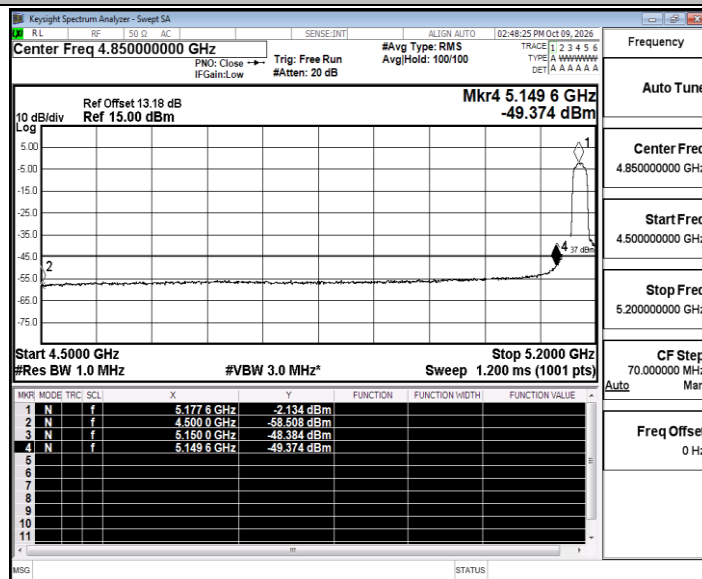
11A_Ant1_High_5240_AV



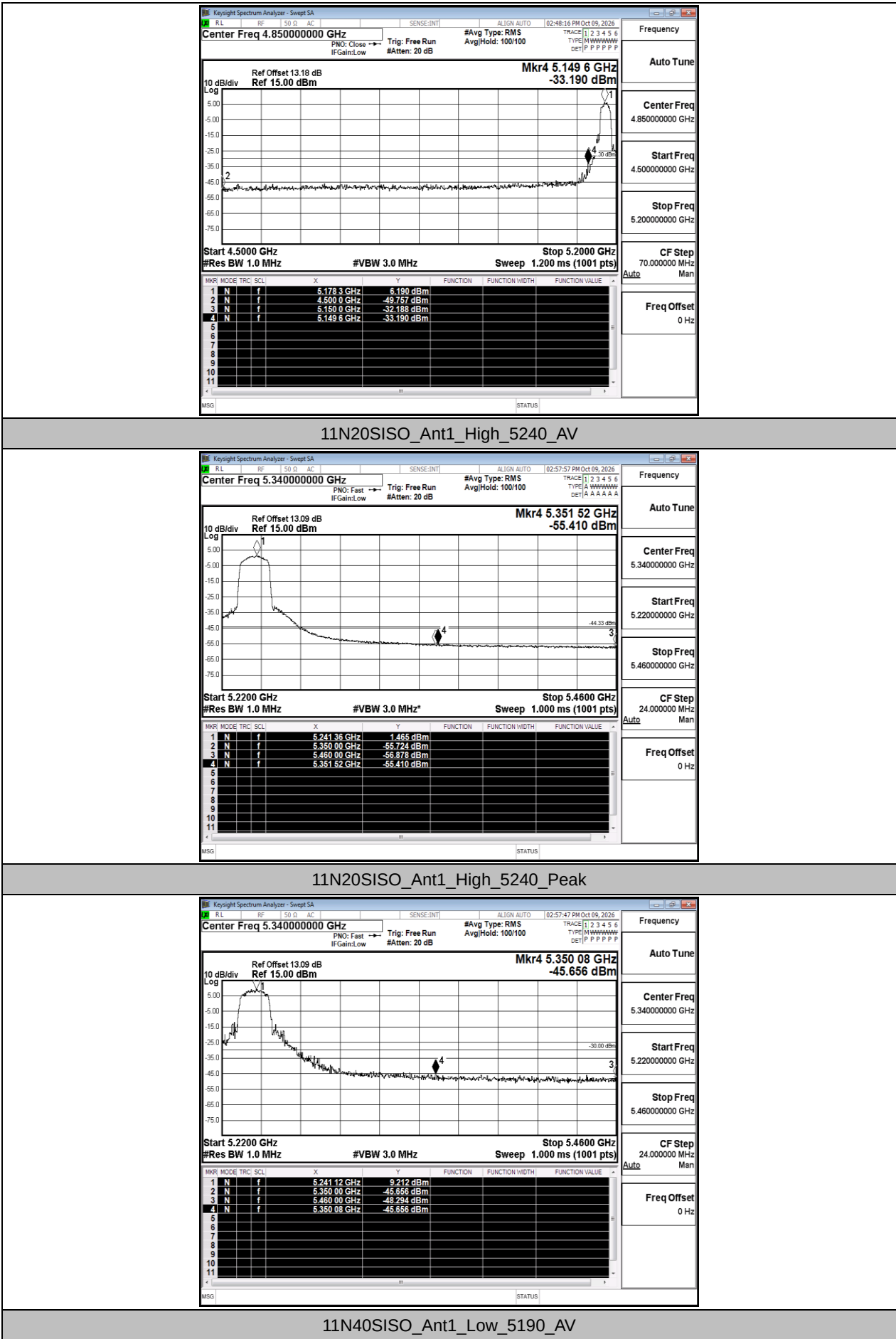
11A_Ant1_High_5240_Peak

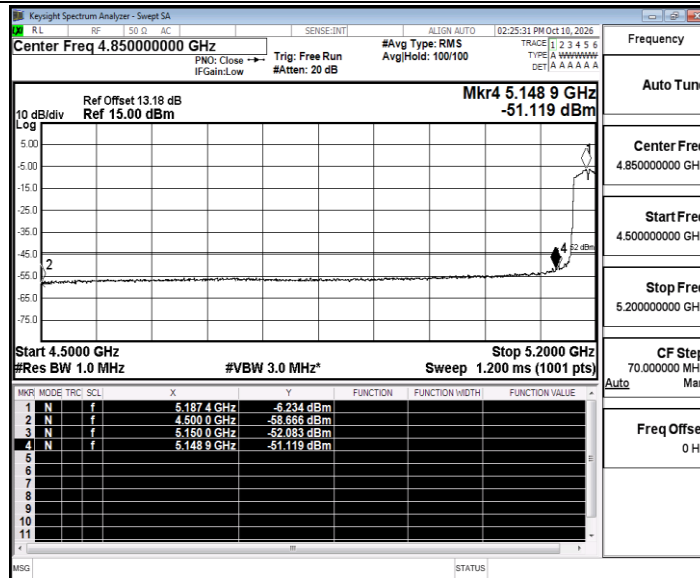


11N20SISO_Ant1_Low_5180_AV

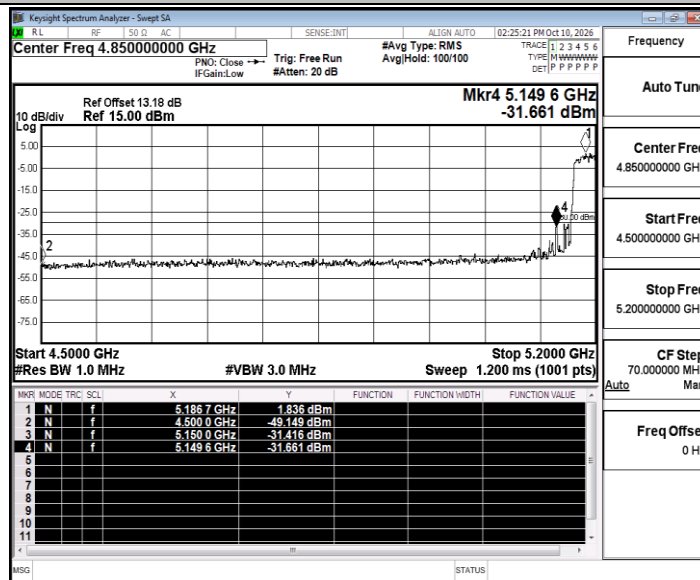


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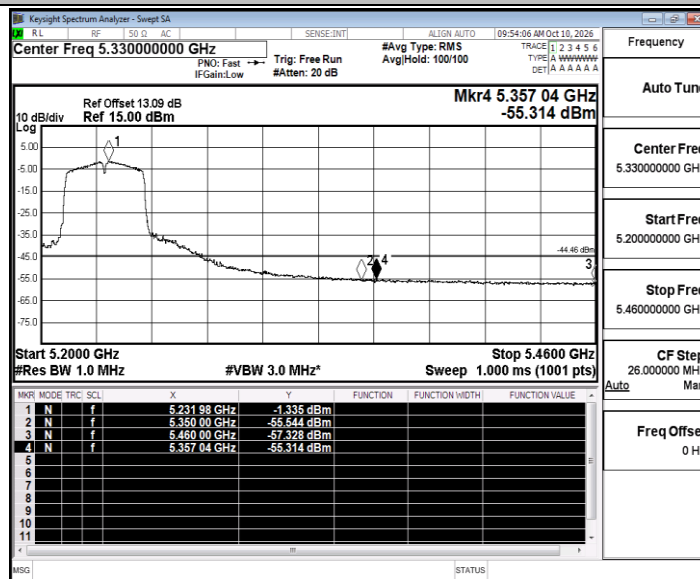




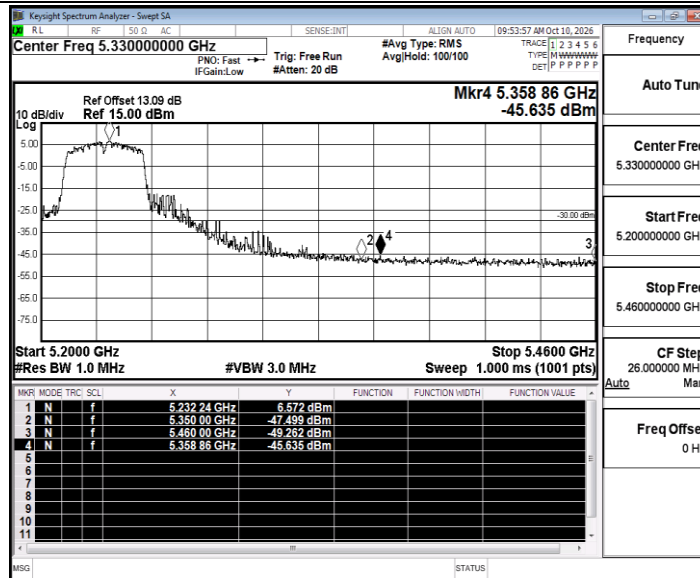
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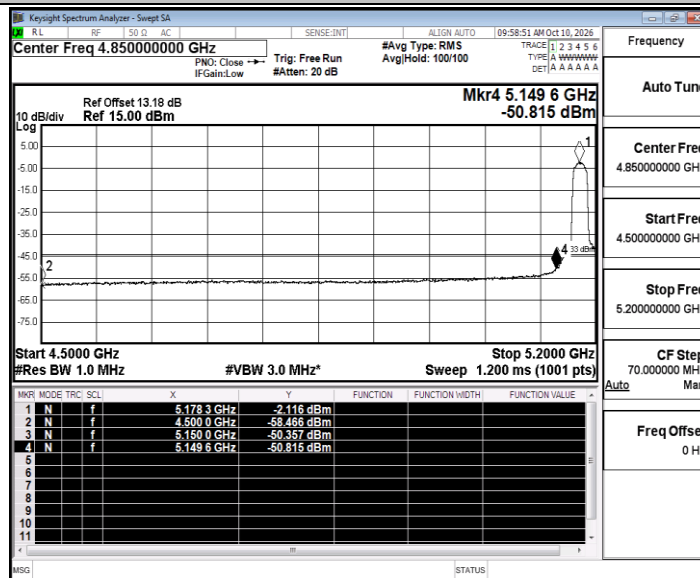
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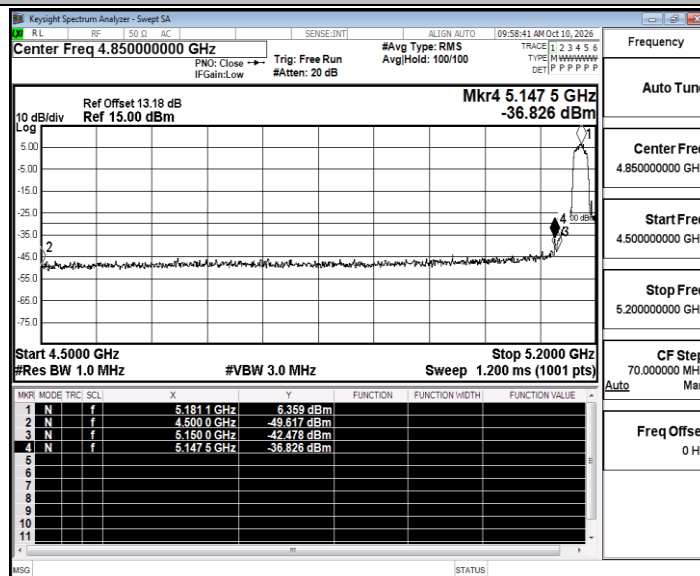
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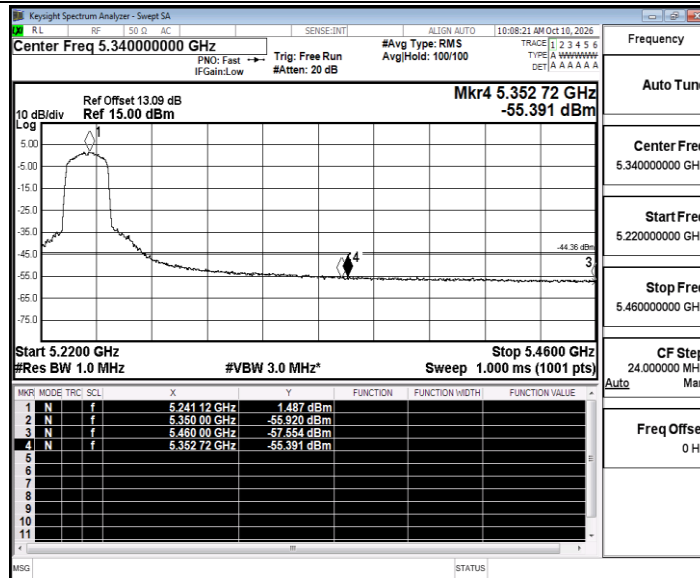
11AC20SISO_Ant1_Low_5180_AV



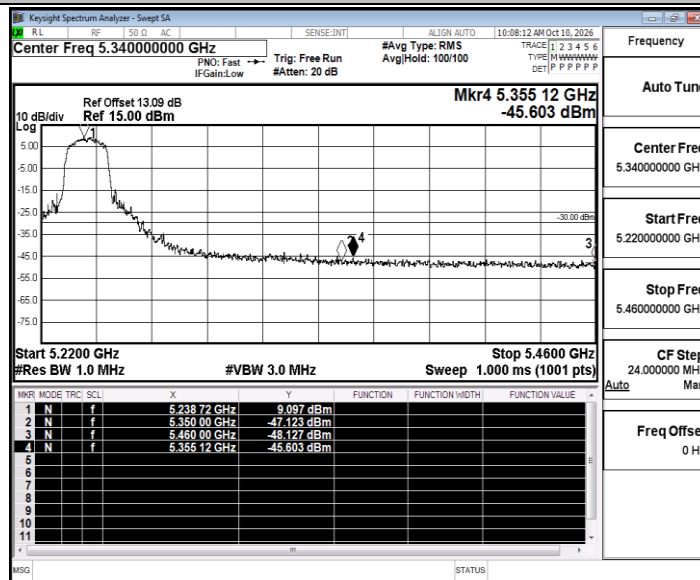
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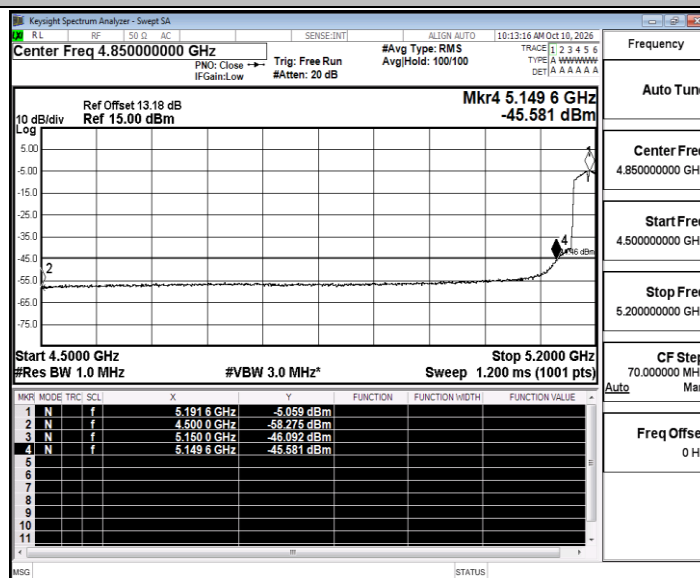
11AC20SISO_Ant1_High_5240_AV



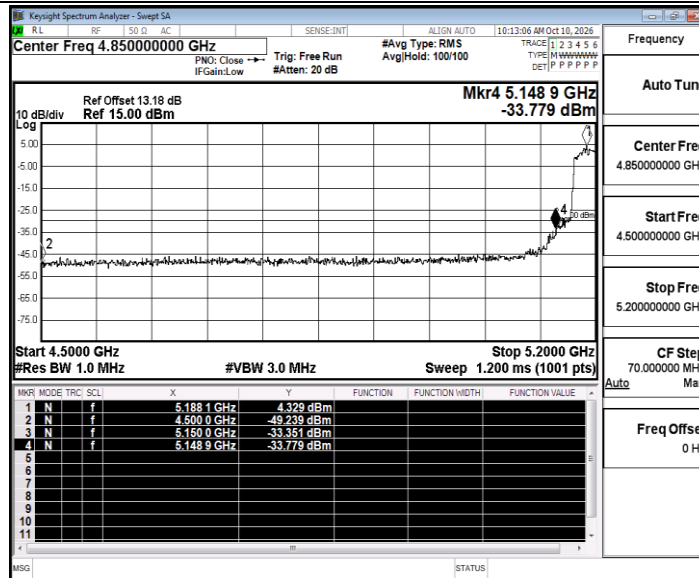
11AC20SISO_Ant1_High_5240_Peak



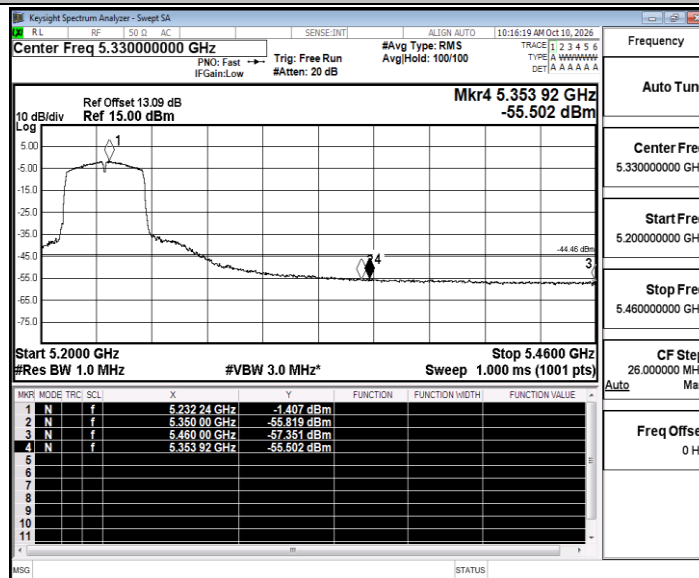
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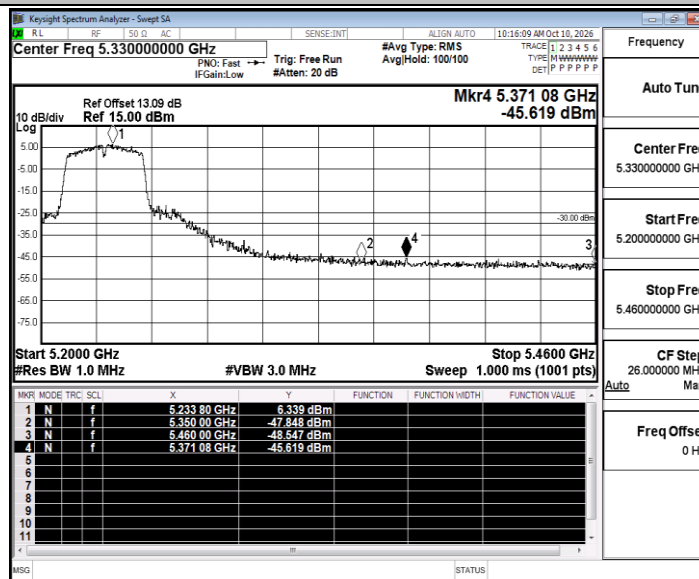
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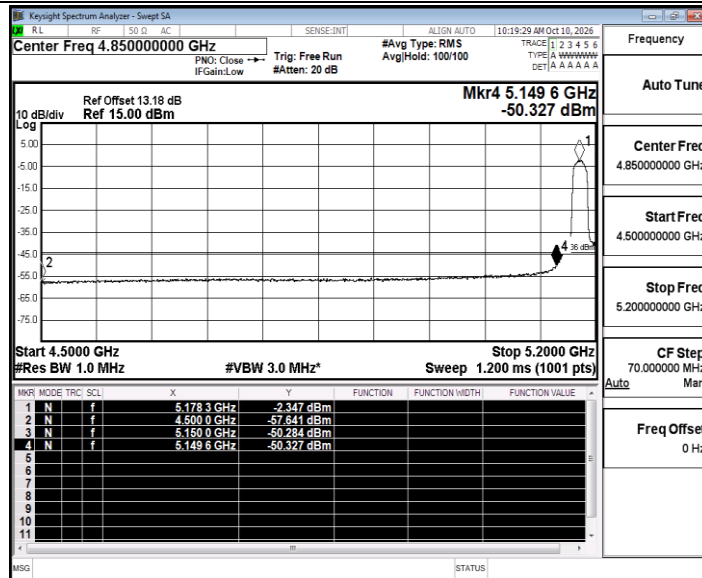
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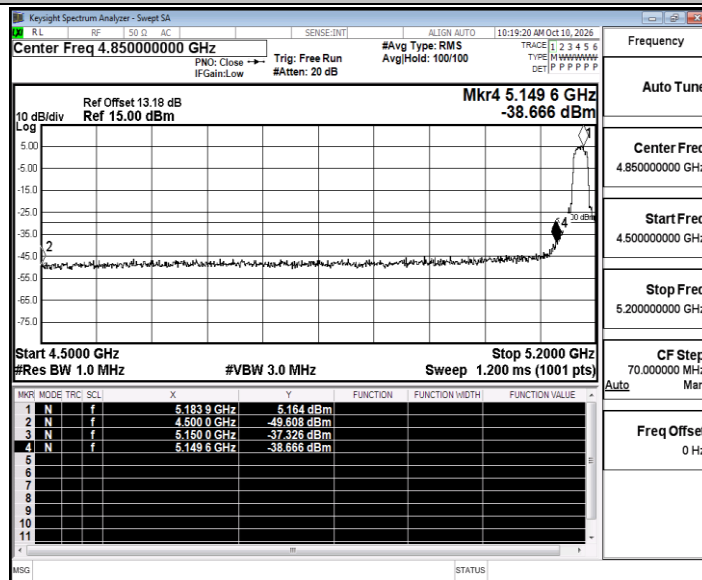
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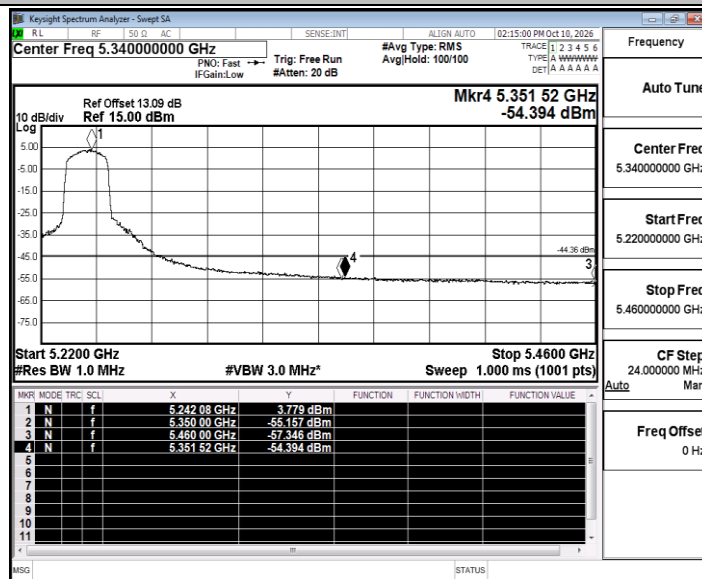
11AX20SISO_Ant1_Low_5180_AV



11AX20SISO_Ant1_Low_5180_Peak



11AX20SISO_Ant1_High_5240_AV



11AX20SISO_Ant1_High_5240_Peak