

Appendix B

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: MagicDash 4
Test Model: MagicDash 4

Environmental Conditions

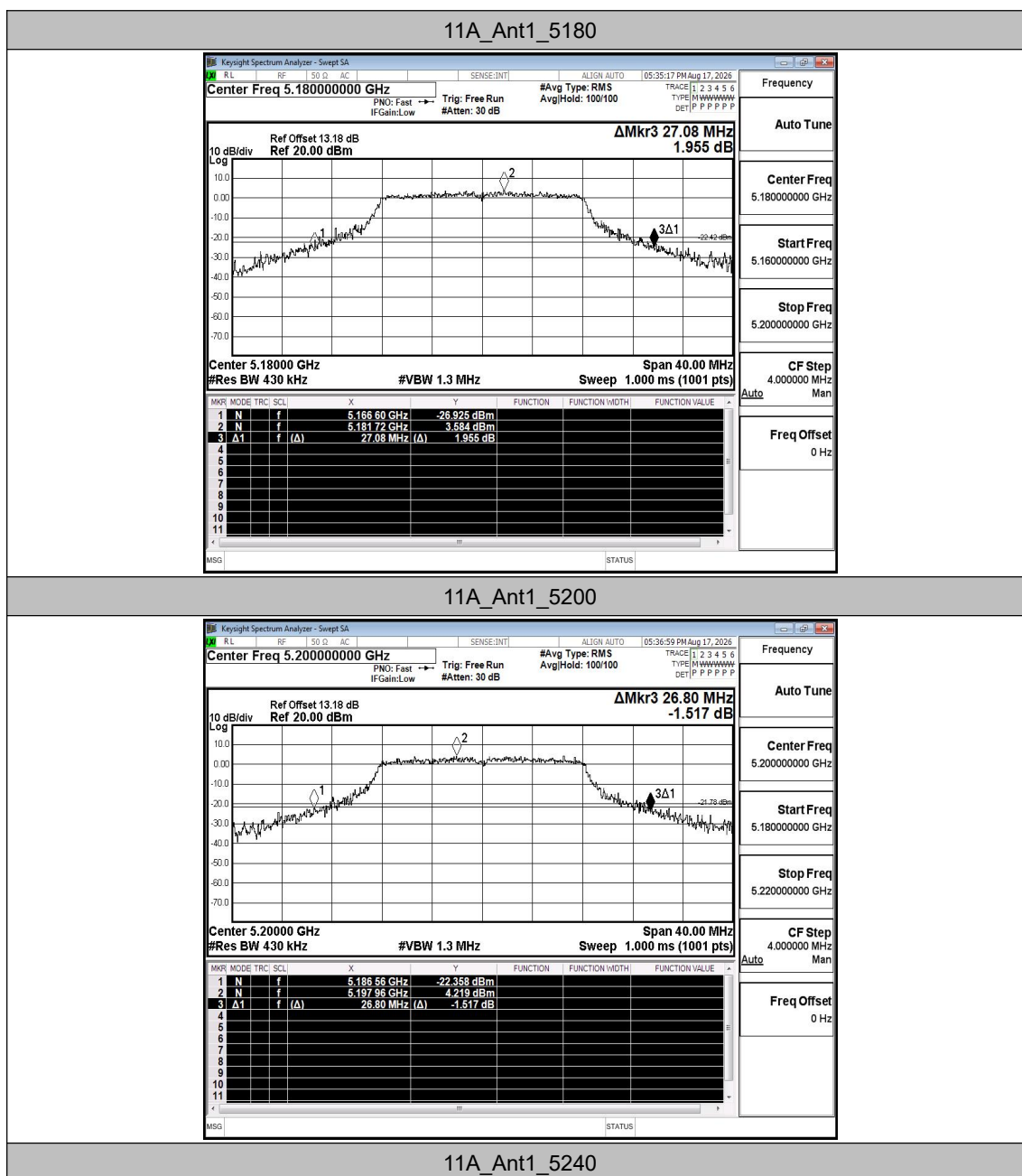
Temperature:	24.2° C
Relative Humidity:	53.3%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang Hai
Supervised by:	Fengliu Tang

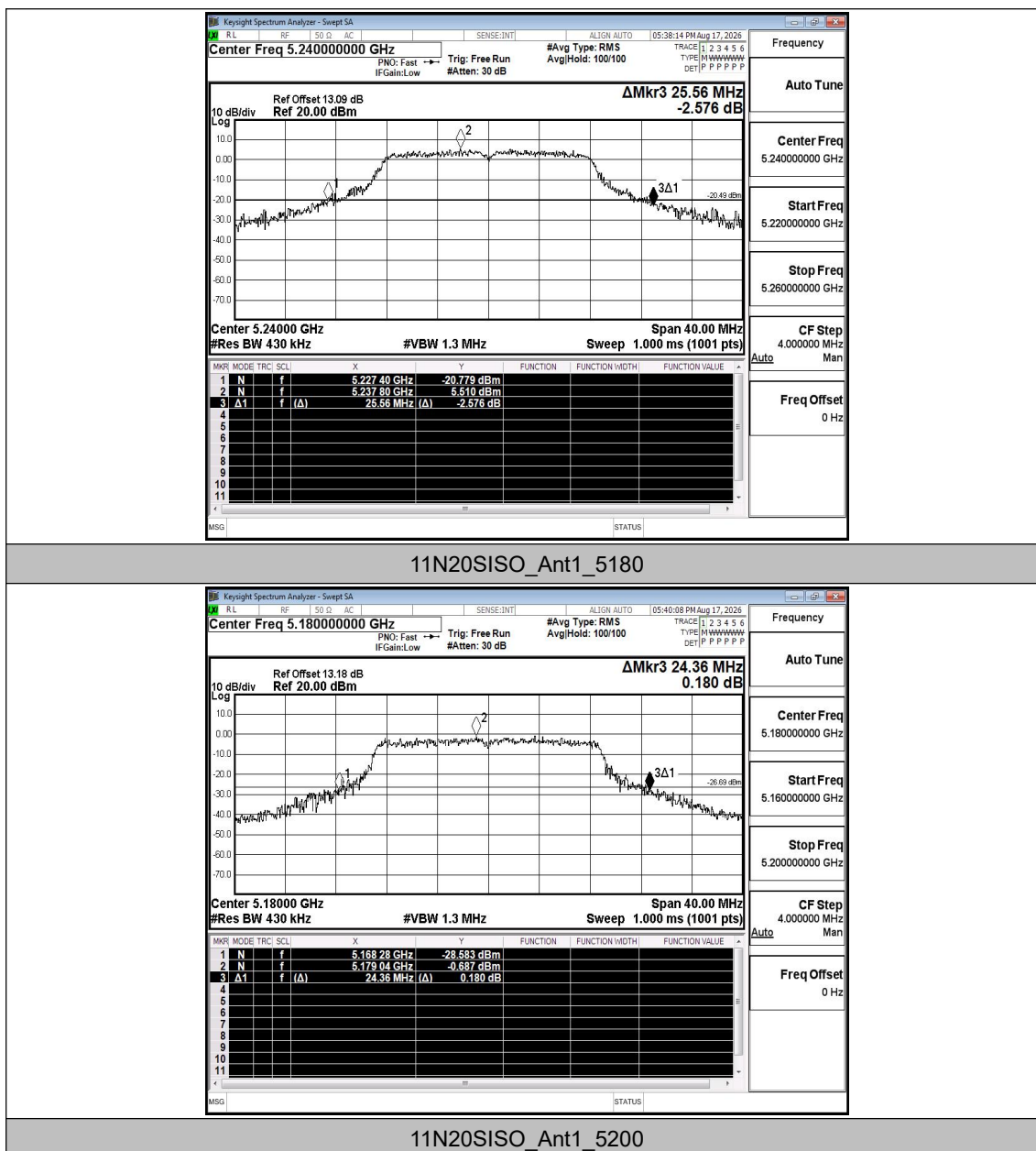
B.1 26dB Bandwidth

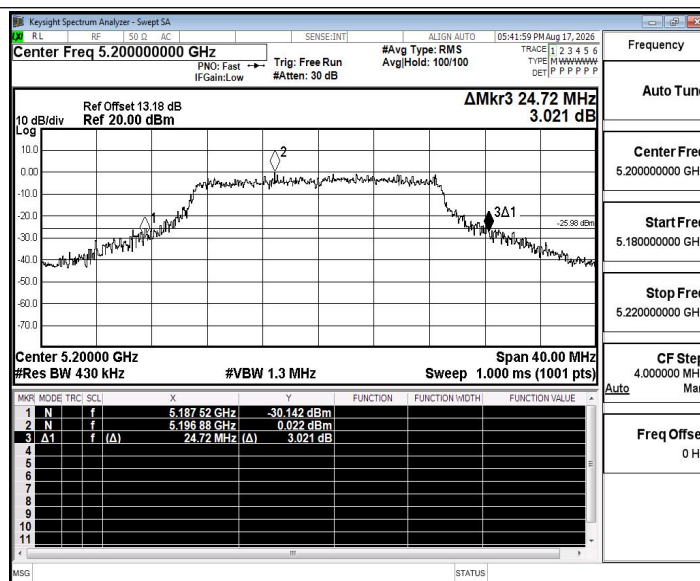
Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	27.080	5166.600	5193.680	---	---
		5200	26.800	5186.560	5213.360	---	---
		5240	25.560	5227.400	5252.960	---	---
11N20SISO	Ant1	5180	24.360	5168.280	5192.640	---	---
		5200	24.720	5187.520	5212.240	---	---
		5240	25.800	5227.840	5253.640	---	---
11N40SISO	Ant1	5190	45.040	5167.840	5212.880	---	---
		5230	43.920	5208.000	5251.920	---	---
11AC20SISO	Ant1	5180	25.680	5167.360	5193.040	---	---
		5200	26.200	5187.360	5213.560	---	---
		5240	26.840	5225.800	5252.640	---	---
11AC40SISO	Ant1	5190	45.440	5167.200	5212.640	---	---
		5230	47.200	5207.040	5254.240	---	---
11AX20SISO	Ant1	5180	27.000	5166.600	5193.600	---	---
		5200	27.680	5186.520	5214.200	---	---
		5240	28.880	5226.040	5254.920	---	---
11AX40SISO	Ant1	5190	48.000	5166.560	5214.560	---	---
		5230	53.120	5206.320	5259.440	---	---

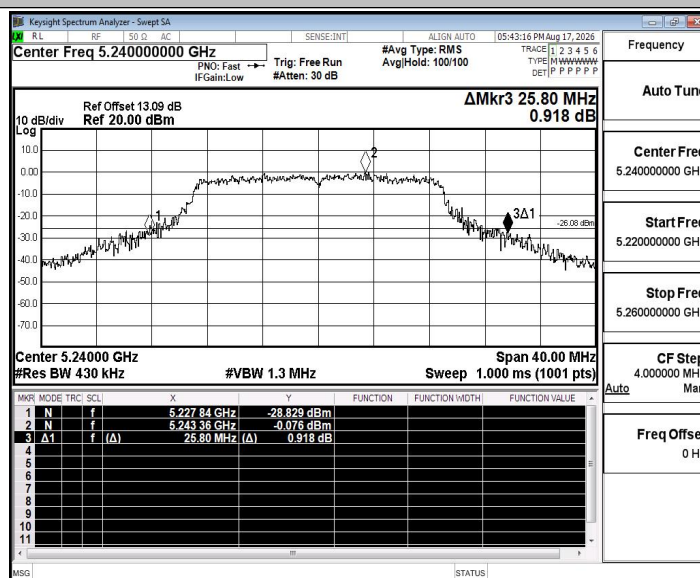
Test Graphs



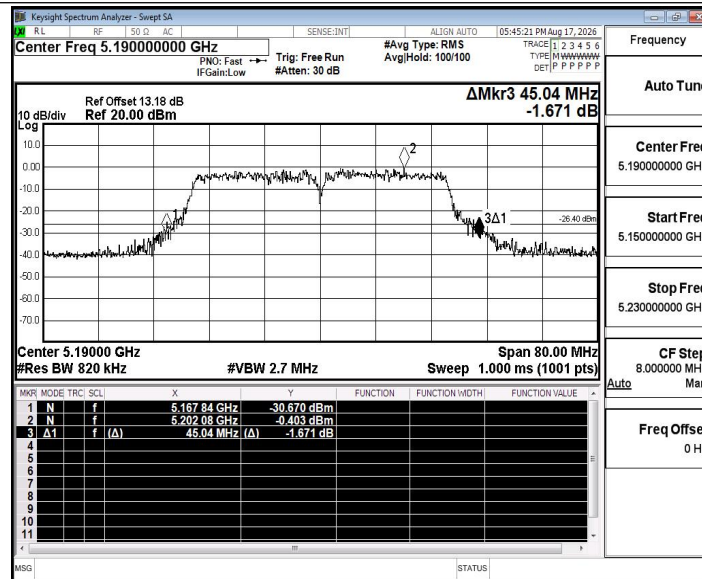




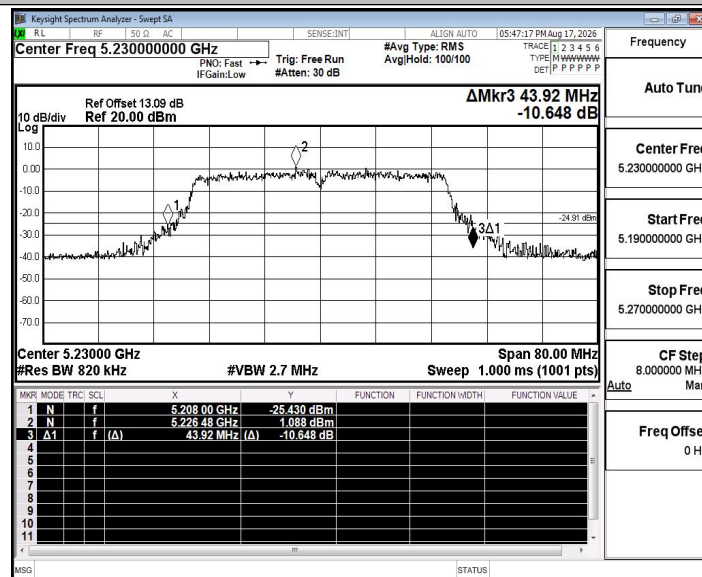
11N20SISO_Ant1_5240



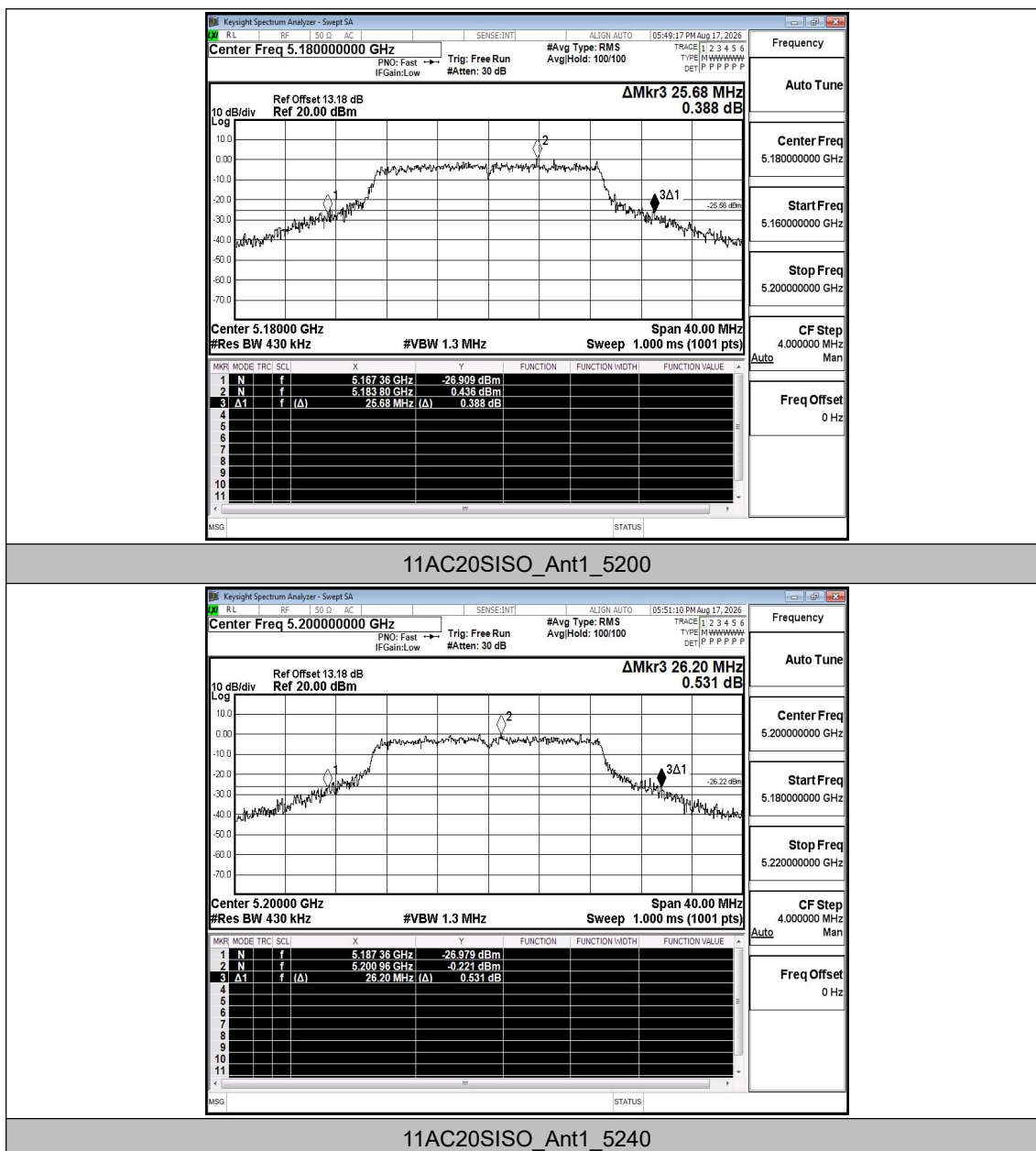
11N40SISO_Ant1_5190

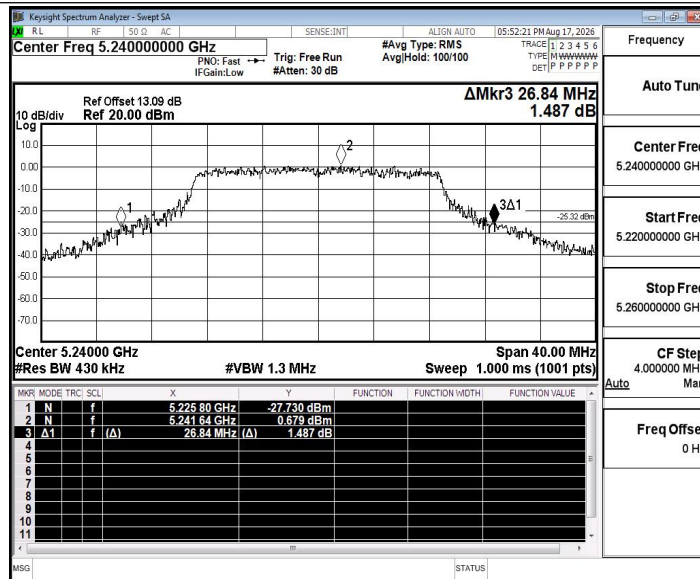


11N40SISO_Ant1_5230

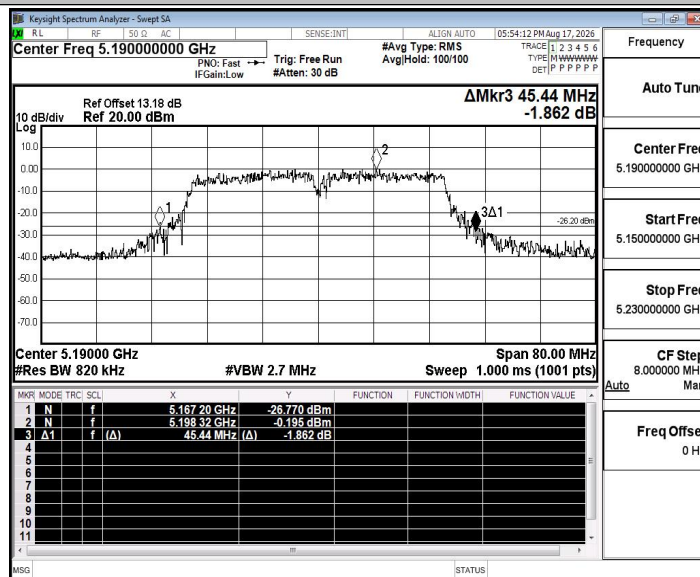


11AC20SISO_Ant1_5180

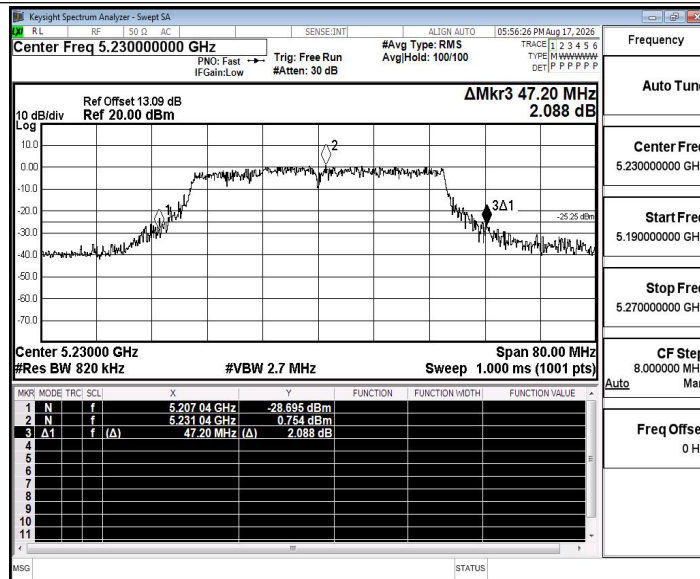




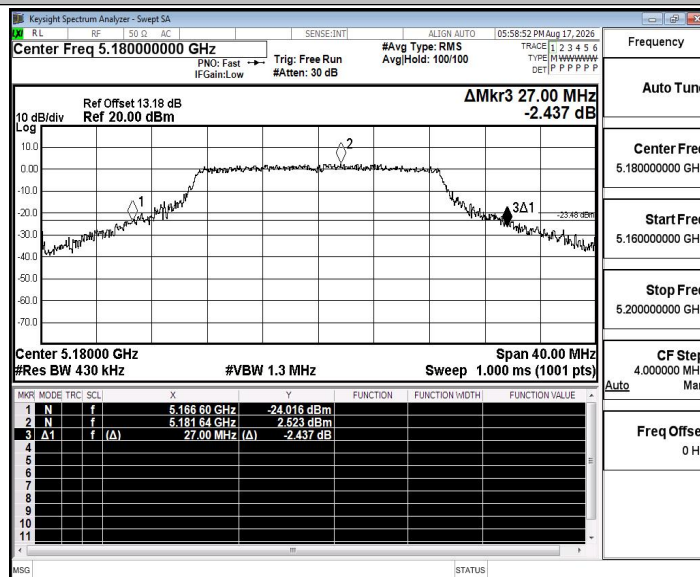
11AC40SISO_Ant1_5190



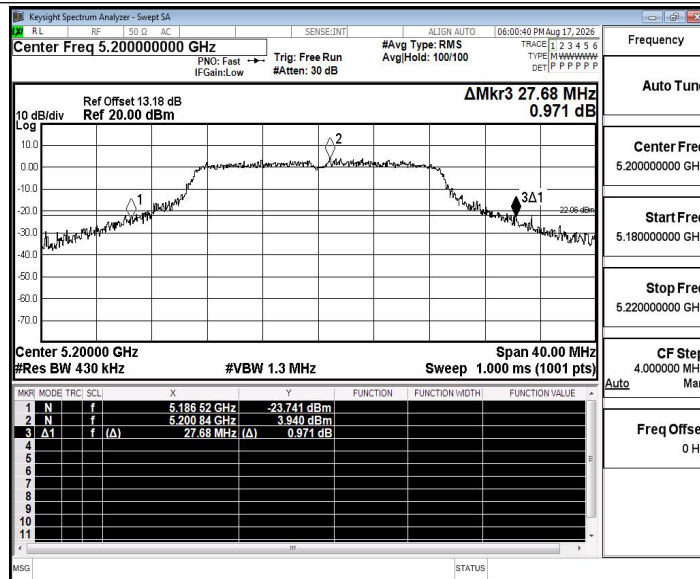
11AC40SISO_Ant1_5230



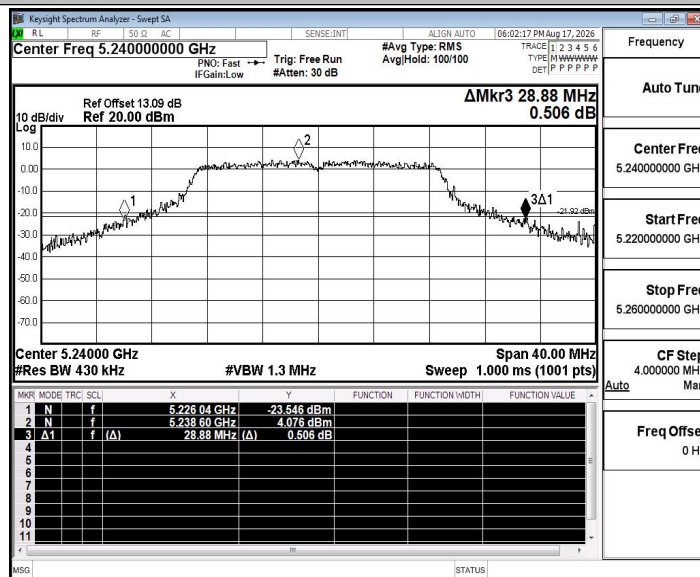
11AX20SISO_Ant1_5180



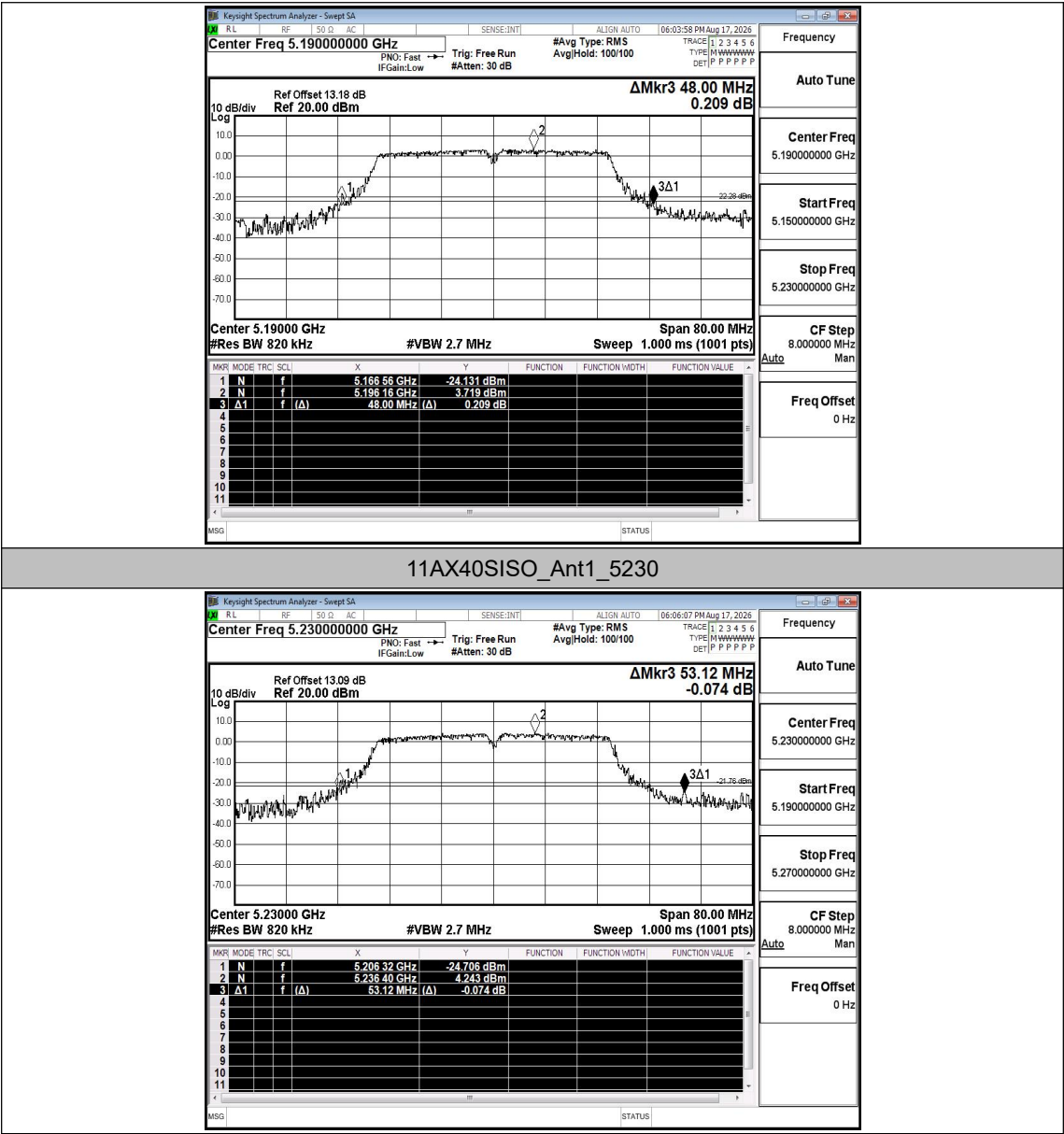
11AX20SISO_Ant1_5200



11AX20SISO_Ant1_5240



11AX40SISO_Ant1_5190



B.2 Maximum conducted output power

Test Result

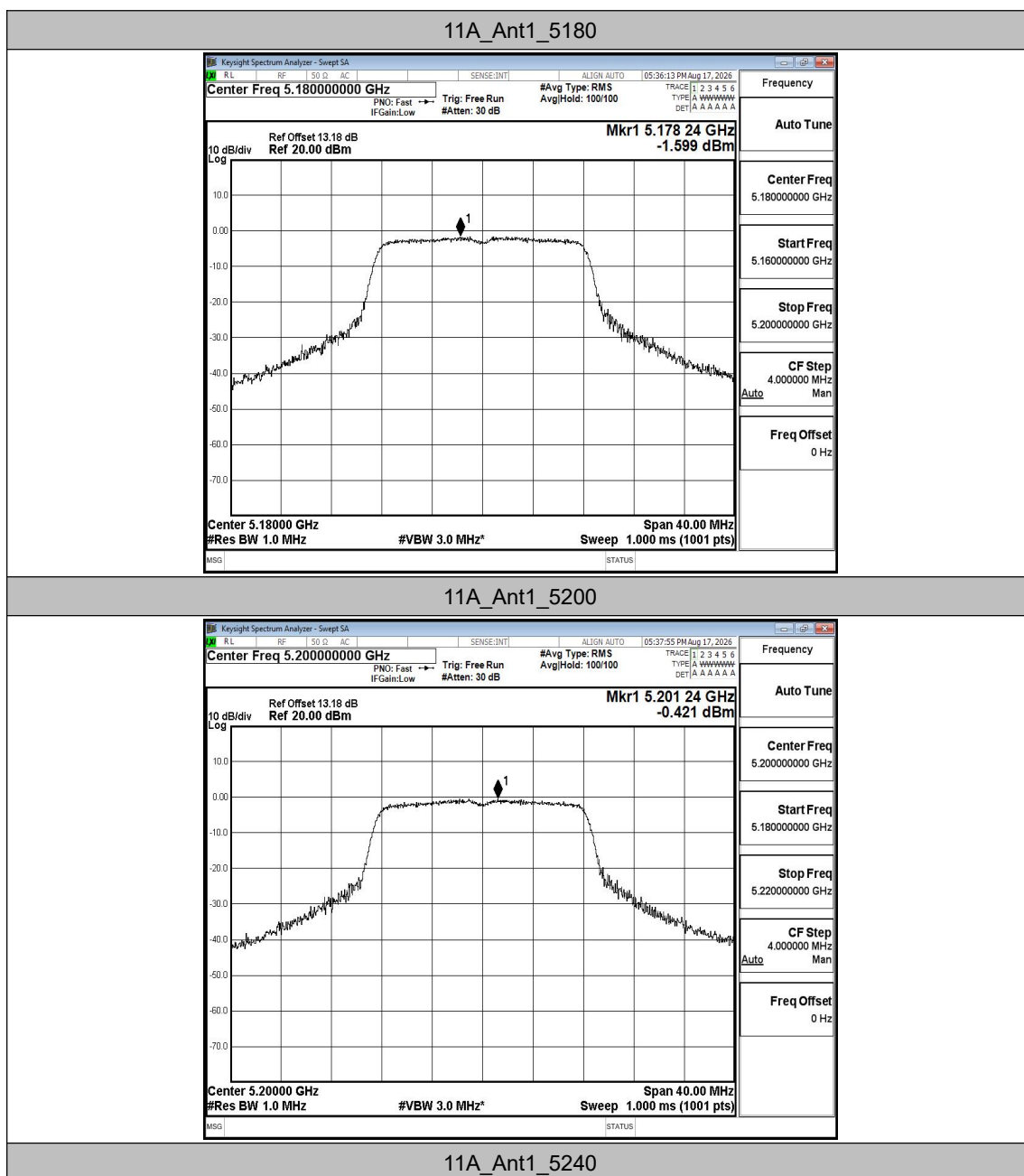
Test Mode	Antenna	Freq(MHz)	Measured Power [dBm]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	10.80	1.76	12.56	≤23.98	PASS
		5200	10.98	1.78	12.76	≤23.98	PASS
		5240	11.95	1.78	13.73	≤23.98	PASS
11N20SISO	Ant1	5180	-0.27	7.35	7.08	≤23.98	PASS
		5200	0.11	7.39	7.50	≤23.98	PASS
		5240	1.25	7.35	8.60	≤23.98	PASS
11N40SISO	Ant1	5190	-2.20	9.47	7.27	≤23.98	PASS
		5230	-1.16	9.47	8.31	≤23.98	PASS
11AC20SISO	Ant1	5180	0.02	7.89	7.91	≤23.98	PASS
		5200	0.74	8.08	8.82	≤23.98	PASS
		5240	2.12	8.08	10.20	≤23.98	PASS
11AC40SISO	Ant1	5190	-1.98	10.49	8.51	≤23.98	PASS
		5230	-0.56	10.49	9.93	≤23.98	PASS
11AX20SISO	Ant1	5180	9.97	1.88	11.85	≤23.98	PASS
		5200	10.39	1.86	12.25	≤23.98	PASS
		5240	11.43	2.11	13.54	≤23.98	PASS
11AX40SISO	Ant1	5190	9.06	3.19	12.25	≤23.98	PASS
		5230	9.89	3.21	13.10	≤23.98	PASS

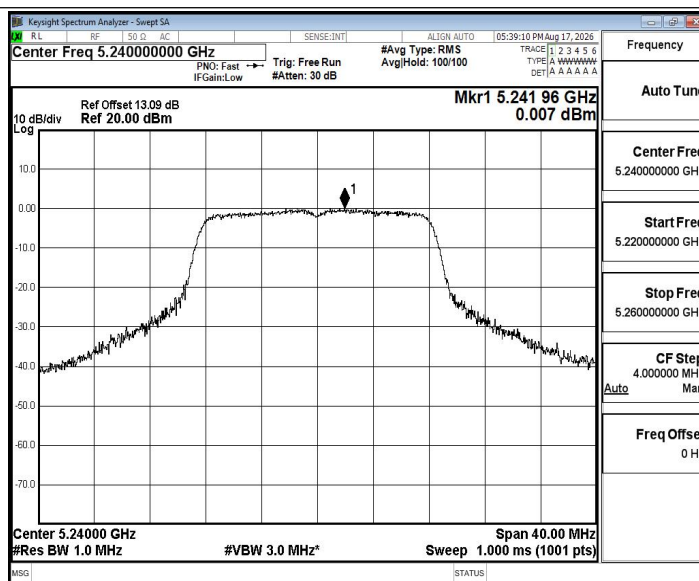
B.3 Maximum power spectral density

Test Result

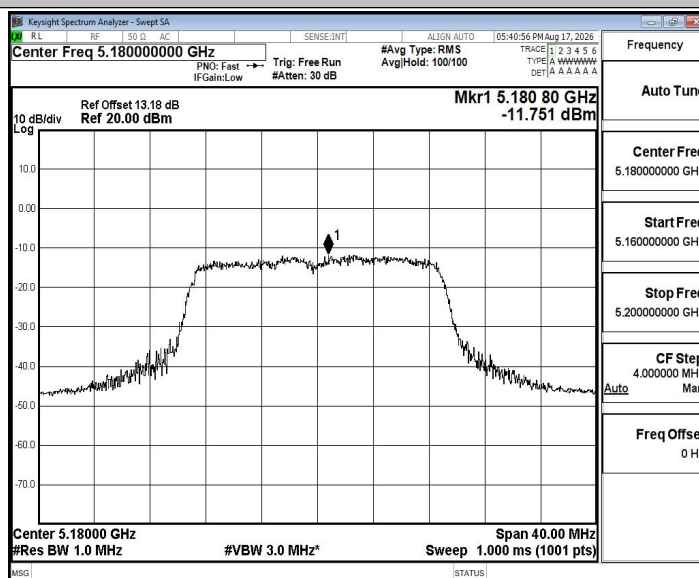
TestMode	Antenna	Freq (MHz)	Raw Data [dBm/MHz]	DC Factor	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	-1.6	1.76	0.16	≤11.00	PASS
		5200	-0.42	1.78	1.36	≤11.00	PASS
		5240	0.01	1.78	1.79	≤11.00	PASS
11N20SISO	Ant1	5180	-11.75	7.35	-4.40	≤11.00	PASS
		5200	-10.76	7.39	-3.37	≤11.00	PASS
		5240	-10.07	7.35	-2.72	≤11.00	PASS
11N40SISO	Ant1	5190	-15.4	9.47	-5.93	≤11.00	PASS
		5230	-14.64	9.47	-5.17	≤11.00	PASS
11AC20SISO	Ant1	5180	-11.53	7.89	-3.64	≤11.00	PASS
		5200	-11.13	8.08	-3.05	≤11.00	PASS
		5240	-9.25	8.08	-1.17	≤11.00	PASS
11AC40SISO	Ant1	5190	-15.95	10.49	-5.46	≤11.00	PASS
		5230	-14.73	10.49	-4.24	≤11.00	PASS
11AX20SISO	Ant1	5180	-2.2	1.88	-0.32	≤11.00	PASS
		5200	-1.84	1.86	0.02	≤11.00	PASS
		5240	-1.2	2.11	0.91	≤11.00	PASS
11AX40SISO	Ant1	5190	-6.21	3.19	-3.02	≤11.00	PASS
		5230	-5.49	3.21	-2.28	≤11.00	PASS

Test Graphs

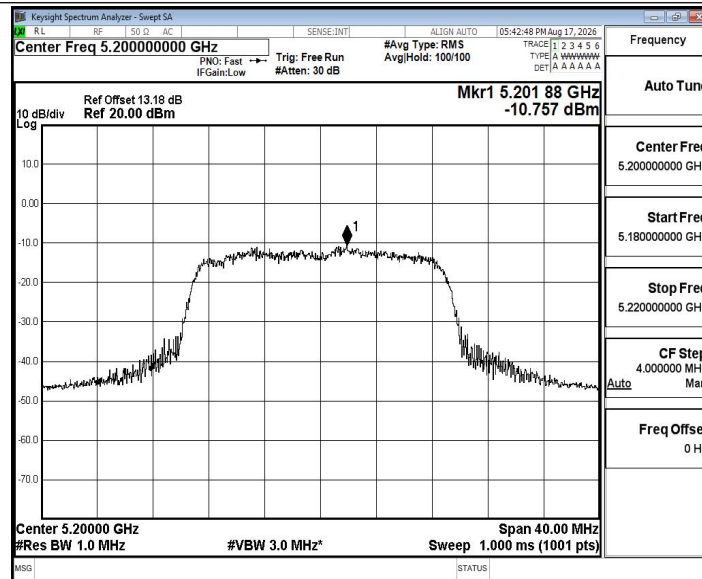




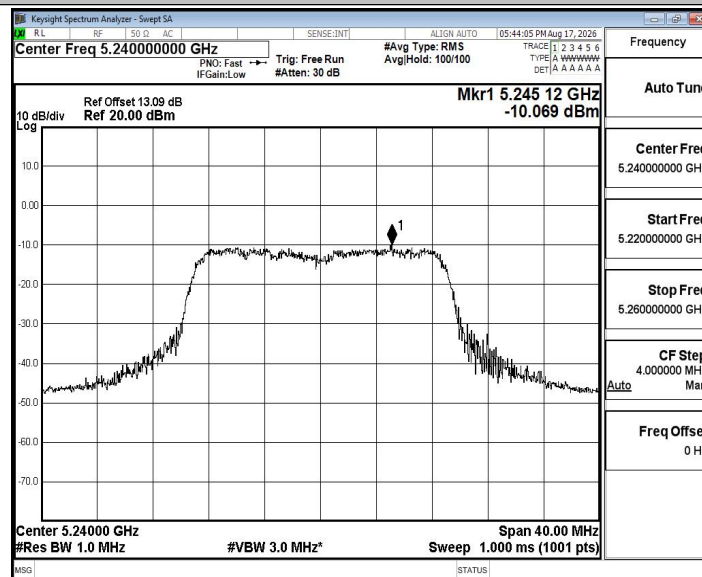
11N20SISO_Ant1_5180



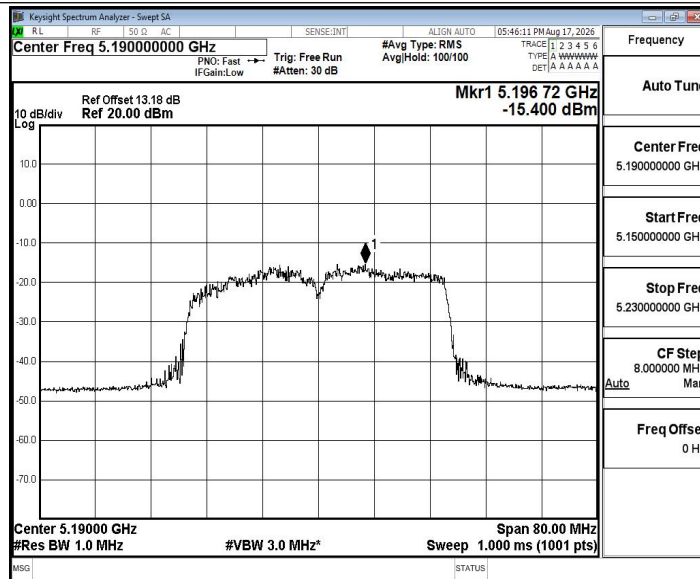
11N20SISO_Ant1_5200



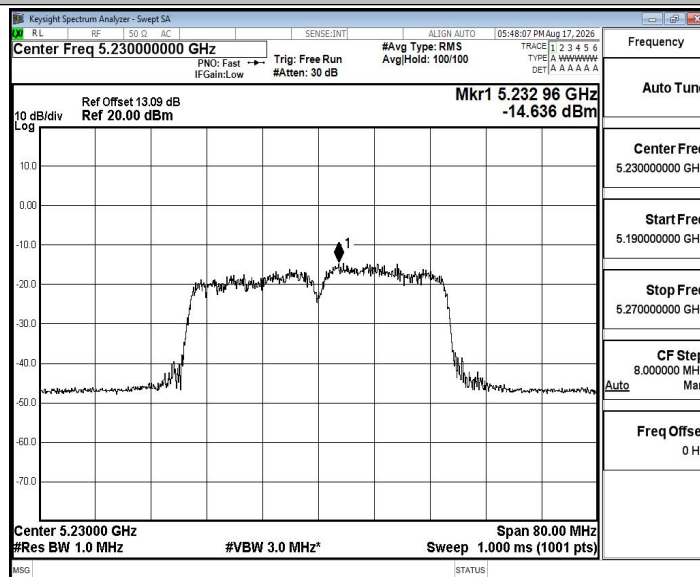
11N20SISO_Ant1_5240



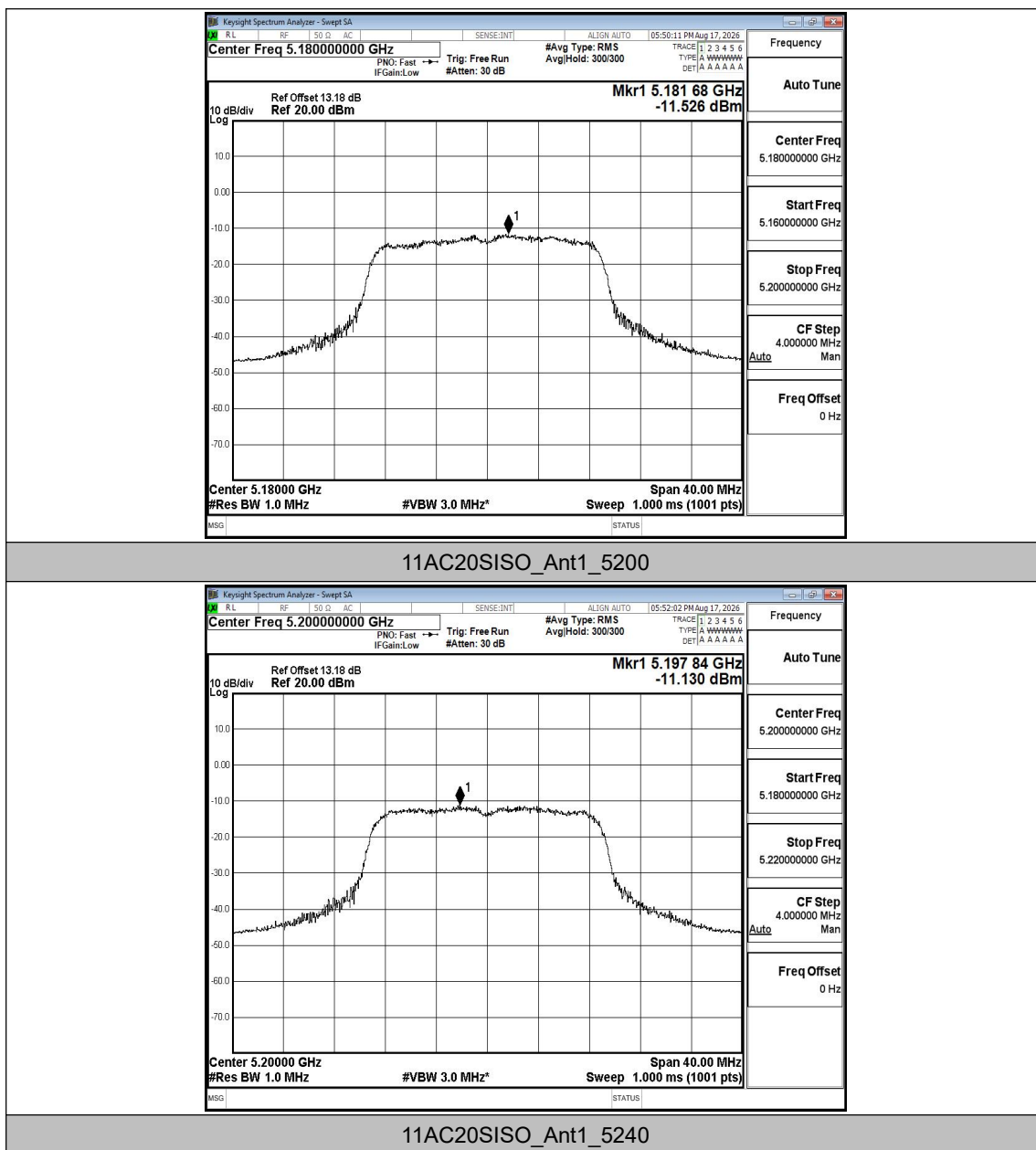
11N40SISO_Ant1_5190

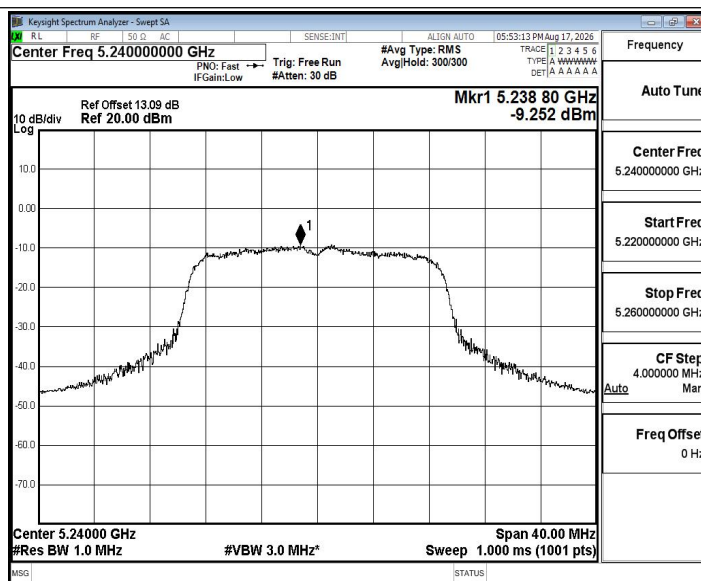


11N40SISO_Ant1_5230

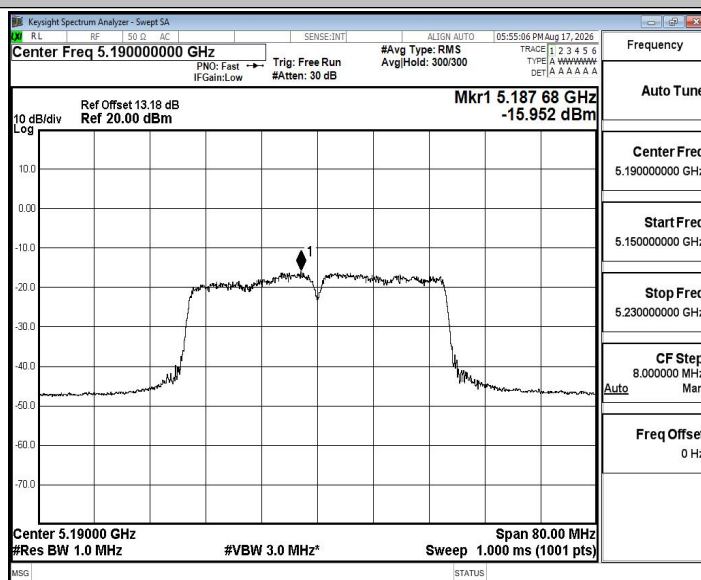


11AC20SISO_Ant1_5180

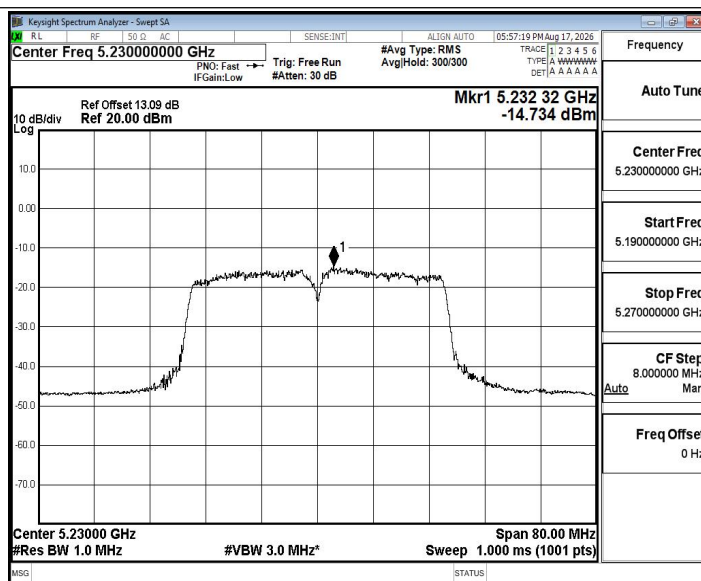




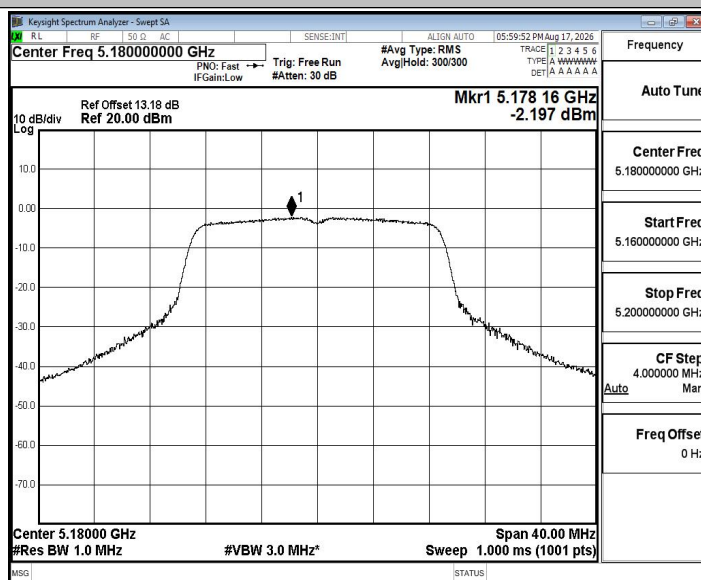
11AC40SISO_Ant1_5190



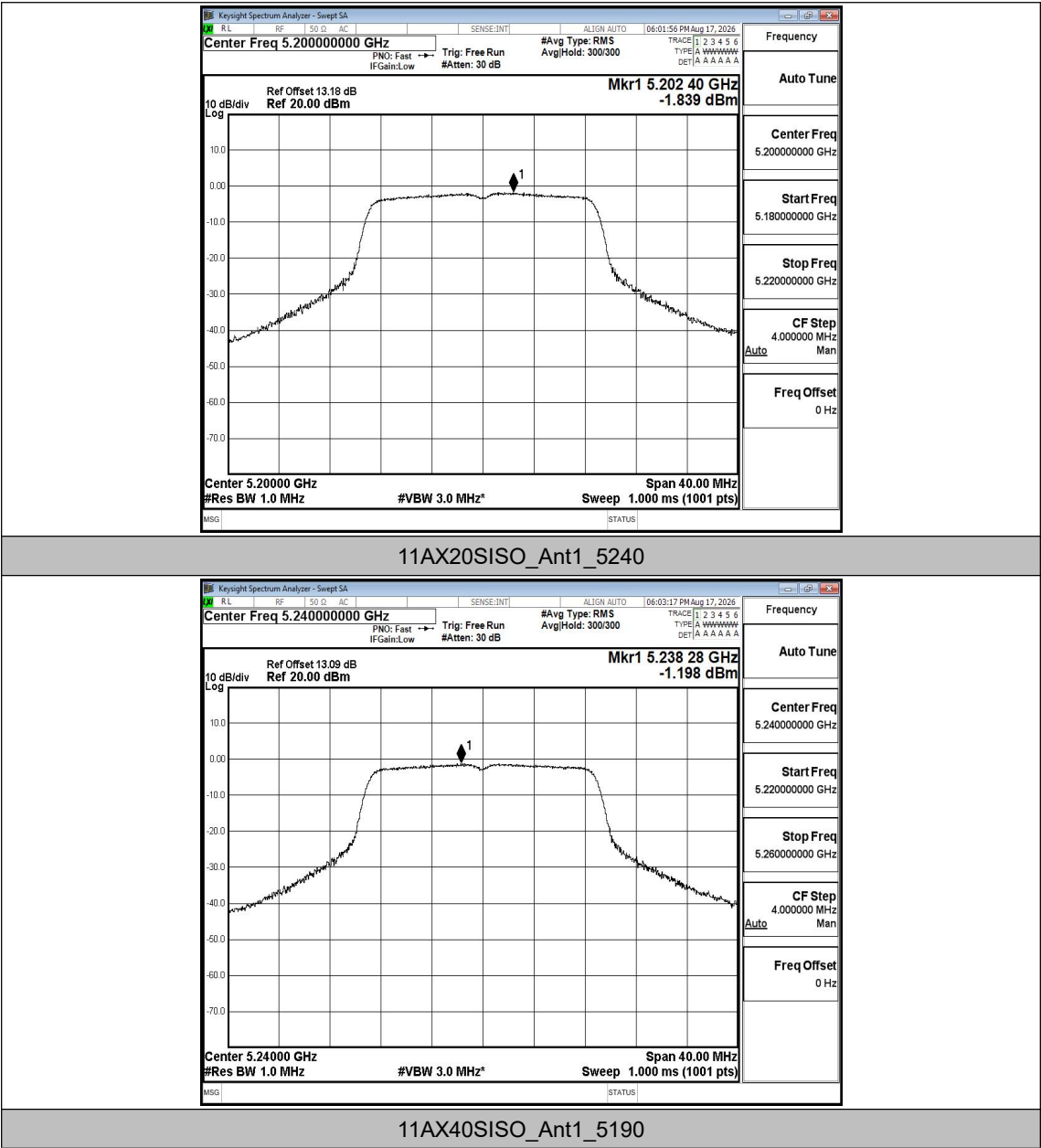
11AC40SISO_Ant1_5230



11AX20SISO_Ant1_5180



11AX20SISO_Ant1_5200



B.4 Emissions in Restricted Bands

Test Result

TestMode	Antenna	ChName	Freq (MHz)	Detector	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	-62.07	≤-46.95	3.99	1.76	38.88	≤54	PASS
				AV	5149.600	-52.43	≤-46.95	3.99	1.76	48.52	≤54	PASS
				AV	5150.000	-52.38	≤-46.95	3.99	1.76	48.57	≤54	PASS
				Peak	4500.000	-54.41	≤-30.99	3.99	0.00	44.78	≤68.2	PASS
				Peak	5149.600	-36.48	≤-30.99	3.99	0.00	62.71	≤68.2	PASS
				Peak	5150.000	-36.08	≤-30.99	3.99	0.00	63.11	≤68.2	PASS
		High	5240	AV	5350.000	-57.14	≤-46.97	3.99	1.78	43.83	≤54	PASS
				AV	5432.880	-54.96	≤-46.97	3.99	1.78	46.01	≤54	PASS
				AV	5460.000	-56.27	≤-46.97	3.99	1.78	44.70	≤54	PASS
				Peak	5350.000	-47.87	≤-30.99	3.99	0.00	51.32	≤68.2	PASS
				Peak	5442.480	-44.51	≤-30.99	3.99	0.00	54.68	≤68.2	PASS
				Peak	5460.000	-47.83	≤-30.99	3.99	0.00	51.36	≤68.2	PASS
11N20SISO	Ant1	Low	5180	AV	4500.000	-61.98	≤-52.54	3.99	7.35	44.56	≤54	PASS
				AV	5147.500	-58.42	≤-52.54	3.99	7.35	48.12	≤54	PASS
				AV	5150.000	-58.65	≤-52.54	3.99	7.35	47.89	≤54	PASS
				Peak	4500.000	-53.61	≤-30.99	3.99	0.00	45.58	≤68.2	PASS
				Peak	5141.900	-47.75	≤-30.99	3.99	0.00	51.44	≤68.2	PASS
				Peak	5150.000	-47.6	≤-30.99	3.99	0.00	51.59	≤68.2	PASS
		High	5240	AV	5350.000	-60.82	≤-52.54	3.99	7.35	45.72	≤54	PASS
				AV	5406.240	-60.18	≤-52.54	3.99	7.35	46.36	≤54	PASS
				AV	5460.000	-60.4	≤-52.54	3.99	7.35	46.14	≤54	PASS
				Peak	5350.000	-50.19	≤-30.99	3.99	0.00	49.00	≤68.2	PASS
				Peak	5421.600	-47.9	≤-30.99	3.99	0.00	51.29	≤68.2	PASS
				Peak	5460.000	-51.19	≤-30.99	3.99	0.00	48.00	≤68.2	PASS
11N40SISO	Ant1	Low	5190	AV	4500.000	-62.13	≤-54.66	3.99	9.47	46.53	≤54	PASS
				AV	5143.300	-58.87	≤-54.66	3.99	9.47	49.79	≤54	PASS
				AV	5150.000	-59.07	≤-54.66	3.99	9.47	49.59	≤54	PASS
				Peak	4500.000	-53.47	≤-30.99	3.99	0.00	45.72	≤68.2	PASS
				Peak	5149.600	-46.12	≤-30.99	3.99	0.00	53.07	≤68.2	PASS
				Peak	5150.000	-47.67	≤-30.99	3.99	0.00	51.52	≤68.2	PASS
		High	5230	AV	5350.000	-60.66	≤-54.66	3.99	9.47	48.00	≤54	PASS
				AV	5406.960	-60.51	≤-54.66	3.99	9.47	48.15	≤54	PASS
				AV	5460.000	-61.37	≤-54.66	3.99	9.47	47.29	≤54	PASS
				Peak	5350.000	-49.8	≤-30.99	3.99	0.00	49.39	≤68.2	PASS
				Peak	5356.260	-46.76	≤-30.99	3.99	0.00	52.43	≤68.2	PASS

				Peak	5460.000	-51.25	≤-30.99	3.99	0.00	47.94	≤68.2	PASS
11AC20SISO	Ant1	Low	5180	AV	4500.000	-62.27	≤-53.08	3.99	7.89	44.81	≤54	PASS
				AV	5148.200	-58.63	≤-53.08	3.99	7.89	48.45	≤54	PASS
				AV	5150.000	-59.07	≤-53.08	3.99	7.89	48.01	≤54	PASS
				Peak	4500.000	-53.2	≤-30.99	3.99	0.00	45.99	≤68.2	PASS
				Peak	4999.100	-46.54	≤-30.99	3.99	0.00	52.65	≤68.2	PASS
				Peak	5150.000	-50.42	≤-30.99	3.99	0.00	48.77	≤68.2	PASS
		High	5240	AV	5350.000	-60.58	≤-53.27	3.99	8.08	46.69	≤54	PASS
				AV	5417.520	-59.32	≤-53.27	3.99	8.08	47.95	≤54	PASS
				AV	5460.000	-59.87	≤-53.27	3.99	8.08	47.40	≤54	PASS
				Peak	5350.000	-49.08	≤-30.99	3.99	0.00	50.11	≤68.2	PASS
				Peak	5433.360	-41.45	≤-30.99	3.99	0.00	57.74	≤68.2	PASS
				Peak	5460.000	-48.29	≤-30.99	3.99	0.00	50.90	≤68.2	PASS
11AC40SISO	Ant1	Low	5190	AV	4500.000	-62.15	≤-55.68	3.99	10.49	47.53	≤54	PASS
				AV	5147.500	-58.96	≤-55.68	3.99	10.49	50.72	≤54	PASS
				AV	5150.000	-58.88	≤-55.68	3.99	10.49	50.80	≤54	PASS
				Peak	4500.000	-52.71	≤-30.99	3.99	0.00	46.48	≤68.2	PASS
				Peak	5145.400	-40.9	≤-30.99	3.99	0.00	58.29	≤68.2	PASS
				Peak	5150.000	-44.1	≤-30.99	3.99	0.00	55.09	≤68.2	PASS
		High	5230	AV	5350.000	-60.55	≤-55.68	3.99	10.49	49.13	≤54	PASS
				AV	5418.400	-60.02	≤-55.68	3.99	10.49	49.66	≤54	PASS
				AV	5460.000	-60.54	≤-55.68	3.99	10.49	49.14	≤54	PASS
				Peak	5350.000	-49.63	≤-30.99	3.99	0.00	49.56	≤68.2	PASS
				Peak	5398.900	-41	≤-30.99	3.99	0.00	58.19	≤68.2	PASS
				Peak	5460.000	-47.53	≤-30.99	3.99	0.00	51.66	≤68.2	PASS
11AX20SISO	Ant1	Low	5180	AV	4500.000	-62.73	≤-47.07	3.99	1.88	38.34	≤54	PASS
				AV	5146.800	-53.44	≤-47.07	3.99	1.88	47.63	≤54	PASS
				AV	5150.000	-53.45	≤-47.07	3.99	1.88	47.62	≤54	PASS
				Peak	4500.000	-53.54	≤-30.99	3.99	0.00	45.65	≤68.2	PASS
				Peak	5146.800	-37.14	≤-30.99	3.99	0.00	62.05	≤68.2	PASS
				Peak	5150.000	-38.88	≤-30.99	3.99	0.00	60.31	≤68.2	PASS
		High	5240	AV	5350.000	-57.41	≤-47.30	3.99	2.11	43.89	≤54	PASS
				AV	5424.960	-55.51	≤-47.30	3.99	2.11	45.79	≤54	PASS
				AV	5460.000	-56.98	≤-47.30	3.99	2.11	44.32	≤54	PASS
				Peak	5350.000	-46.6	≤-30.99	3.99	0.00	52.59	≤68.2	PASS
				Peak	5455.440	-45.29	≤-30.99	3.99	0.00	53.90	≤68.2	PASS
				Peak	5460.000	-48.42	≤-30.99	3.99	0.00	50.77	≤68.2	PASS
11AX40SISO	Ant1	Low	5190	AV	4500.000	-62.14	≤-48.38	3.99	3.19	40.24	≤54	PASS
				AV	5148.200	-51.37	≤-48.38	3.99	3.19	51.01	≤54	PASS
				AV	5150.000	-50.47	≤-48.38	3.99	3.19	51.91	≤54	PASS
				Peak	4500.000	-53.77	≤-30.99	3.99	0.00	45.42	≤68.2	PASS
				Peak	5149.600	-35.21	≤-30.99	3.99	0.00	63.98	≤68.2	PASS

				Peak	5150.000	-35	≤-30.99	3.99	0.00	64.19	≤68.2	PASS
				AV	5350.000	-57.88	≤-48.40	3.99	3.21	44.52	≤54	PASS
				AV	5421.000	-56.16	≤-48.40	3.99	3.21	46.24	≤54	PASS
				AV	5460.000	-57.2	≤-48.40	3.99	3.21	45.20	≤54	PASS
		High	5230	Peak	5350.000	-46.77	≤-30.99	3.99	0.00	52.42	≤68.2	PASS
				Peak	5429.320	-44.28	≤-30.99	3.99	0.00	54.91	≤68.2	PASS
				Peak	5460.000	-47.47	≤-30.99	3.99	0.00	51.72	≤68.2	PASS

Note:

1. The Antenna Gain is compensated in the graph.

Test Graphs

