

Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: Projector

Test Model: T7

Environmental Conditions

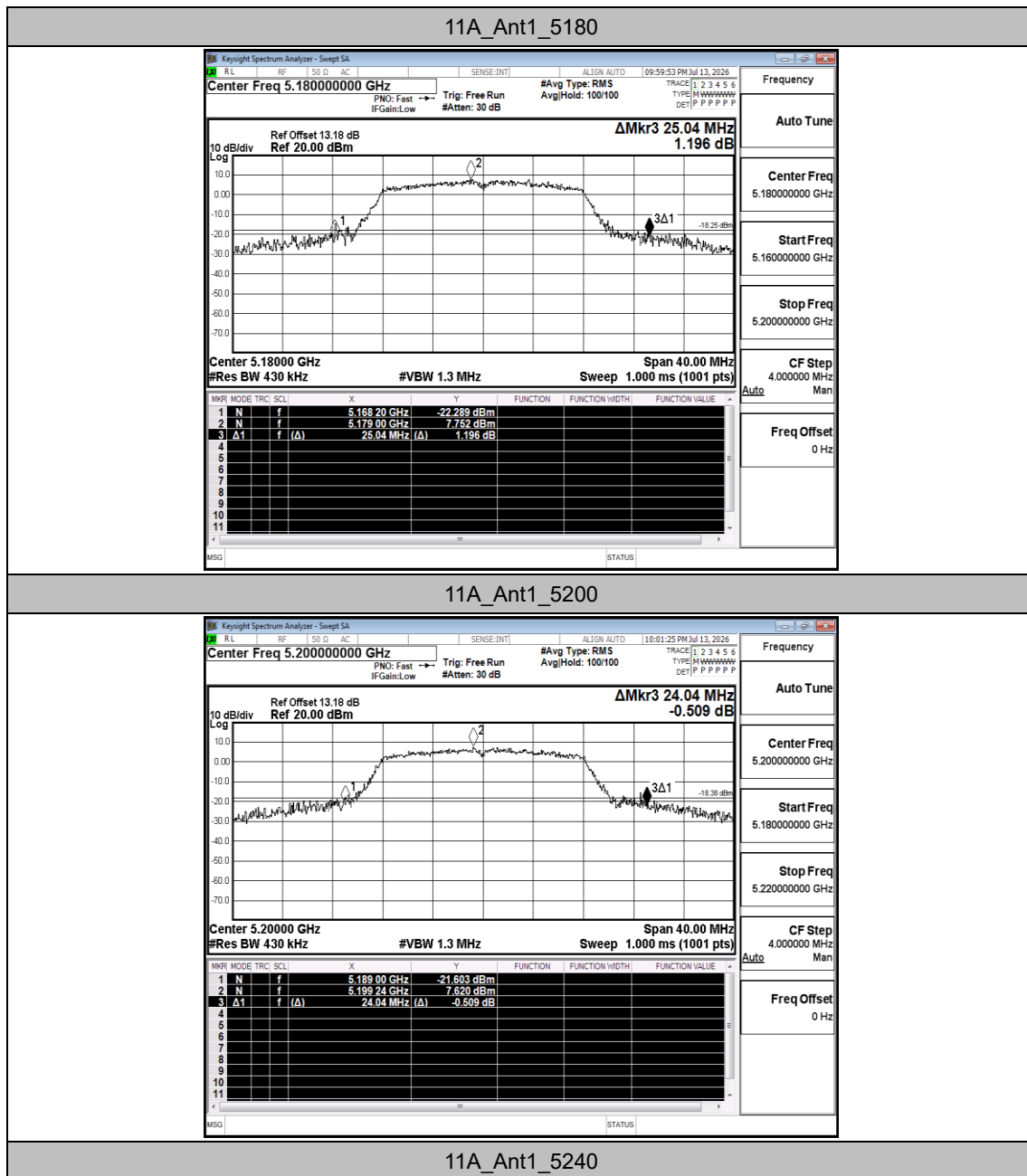
Temperature:	24.3°C
Relative Humidity:	53.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

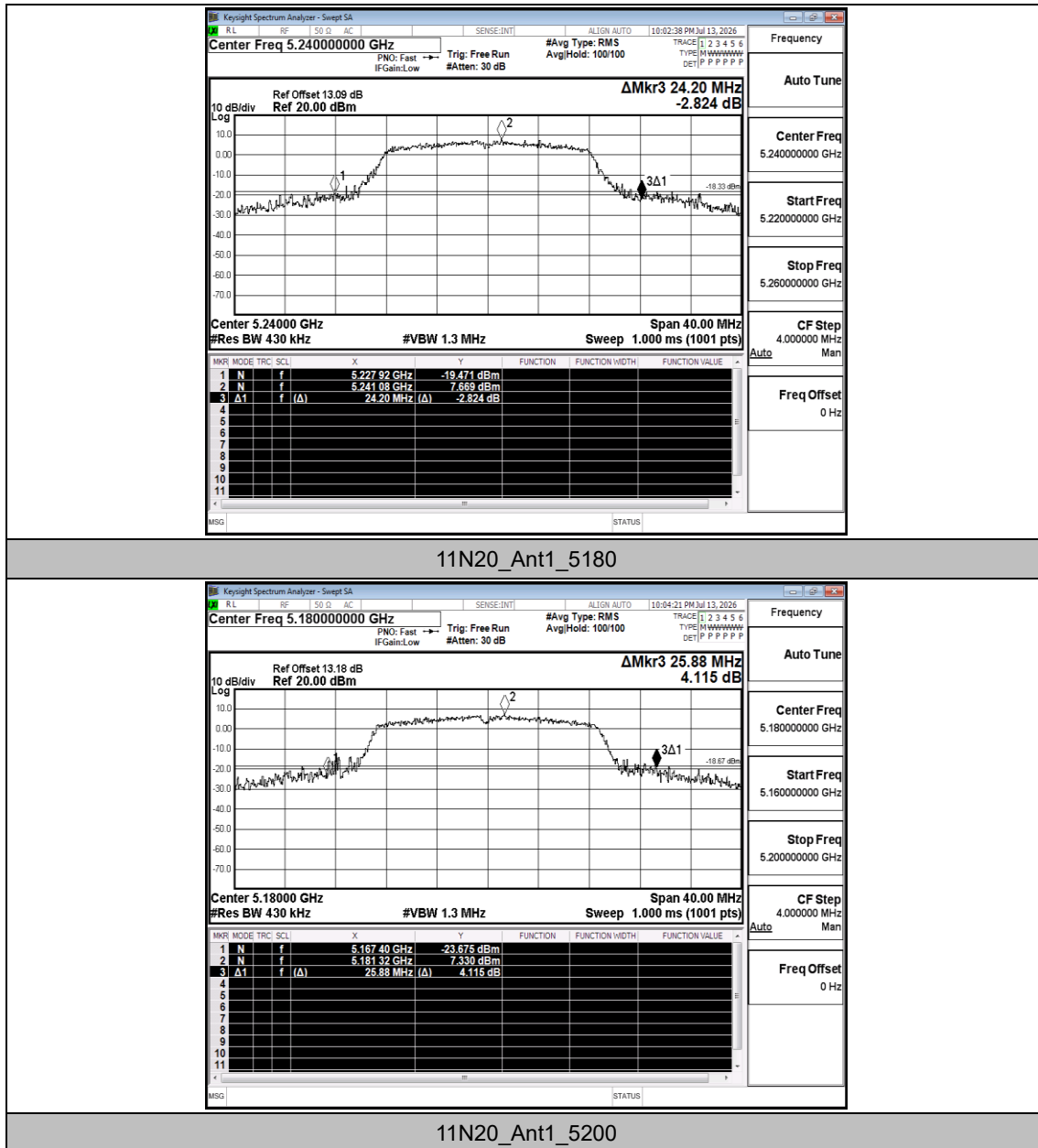
D.1 Emission Bandwidth

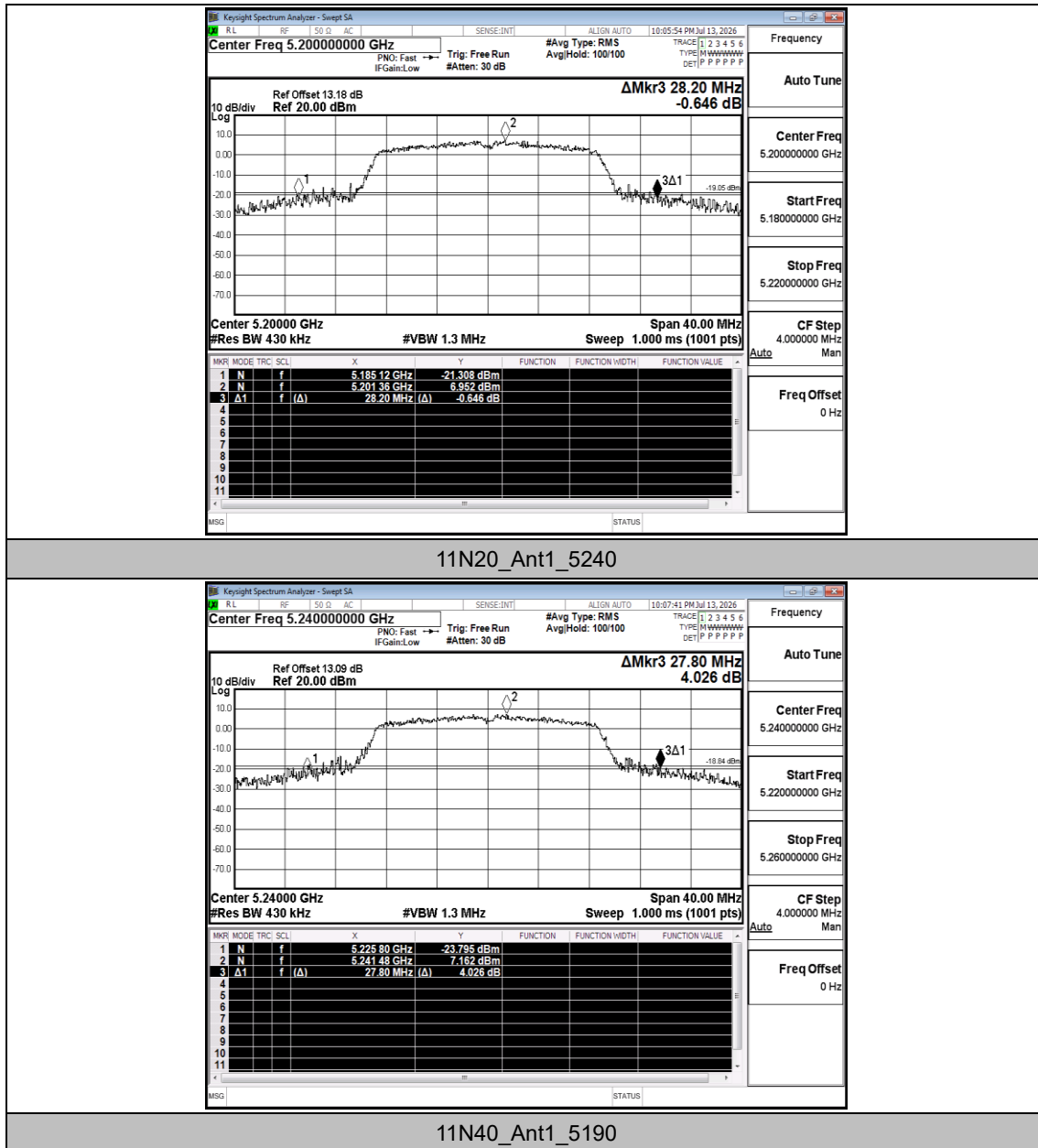
Test Result

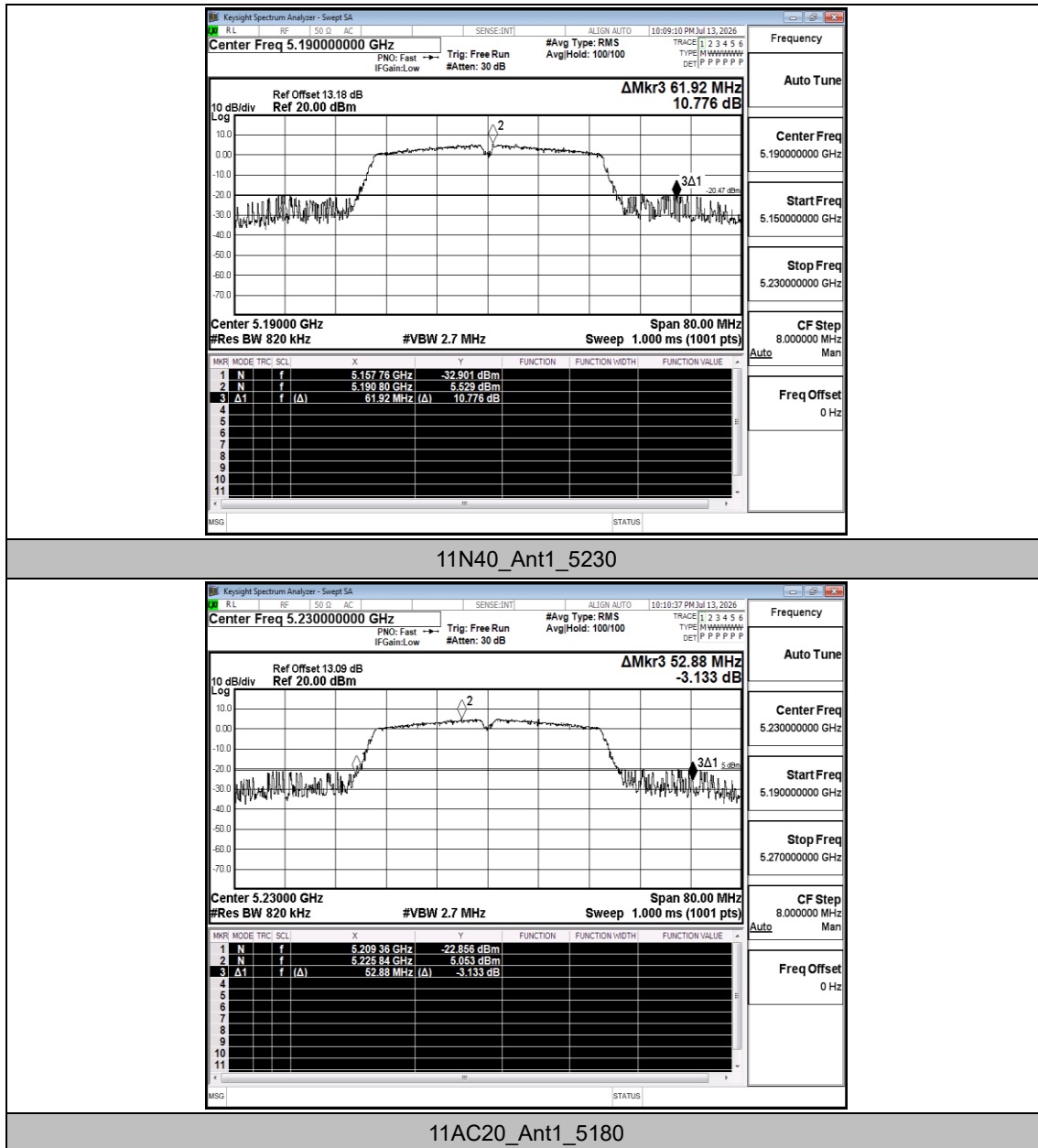
TestMode	Antenna	Freq (MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11A	Ant1	5180	25.040	5168.200	5193.240	---	---
		5200	24.040	5189.000	5213.040	---	---
		5240	24.200	5227.920	5252.120	---	---
11N20	Ant1	5180	25.880	5167.400	5193.280	---	---
		5200	28.200	5185.120	5213.320	---	---
		5240	27.800	5225.800	5253.600	---	---
11N40	Ant1	5190	61.920	5157.760	5219.680	---	---
		5230	52.880	5209.360	5262.240	---	---
11AC20	Ant1	5180	23.080	5169.040	5192.120	---	---
		5200	28.240	5185.200	5213.440	---	---
		5240	24.440	5226.720	5251.160	---	---
11AC40	Ant1	5190	40.800	5169.680	5210.480	---	---
		5230	41.040	5209.600	5250.640	---	---
11AC80	Ant1	5210	97.760	5169.360	5267.120	---	---
11AX20	Ant1	5180	27.480	5167.080	5194.560	---	---
		5200	23.600	5188.560	5212.160	---	---
		5240	27.120	5226.120	5253.240	---	---
11AX40	Ant1	5190	40.800	5169.520	5210.320	---	---
		5230	41.200	5209.440	5250.640	---	---
11AX80	Ant1	5210	82.080	5169.040	5251.120	---	---

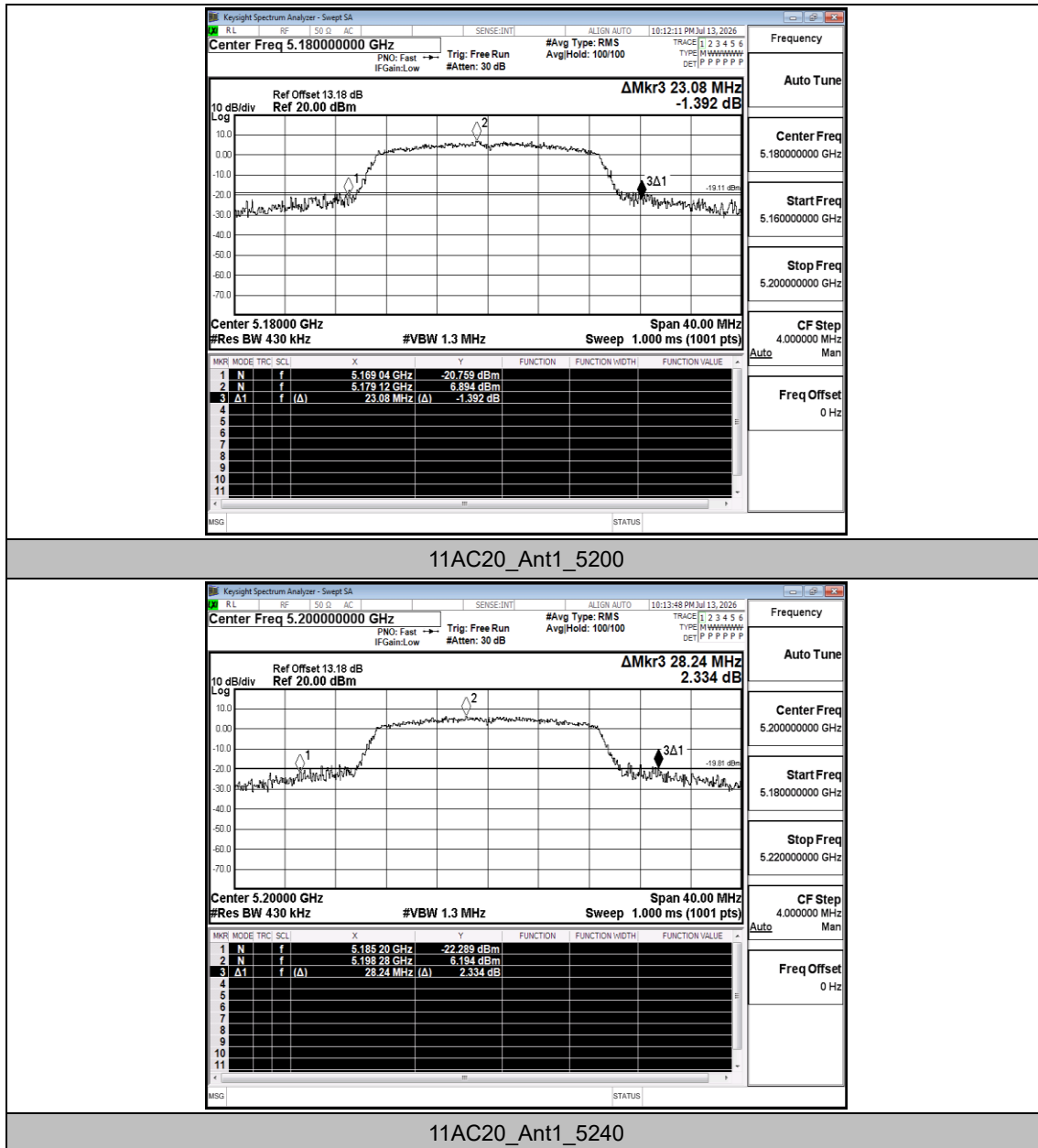
Test Graphs

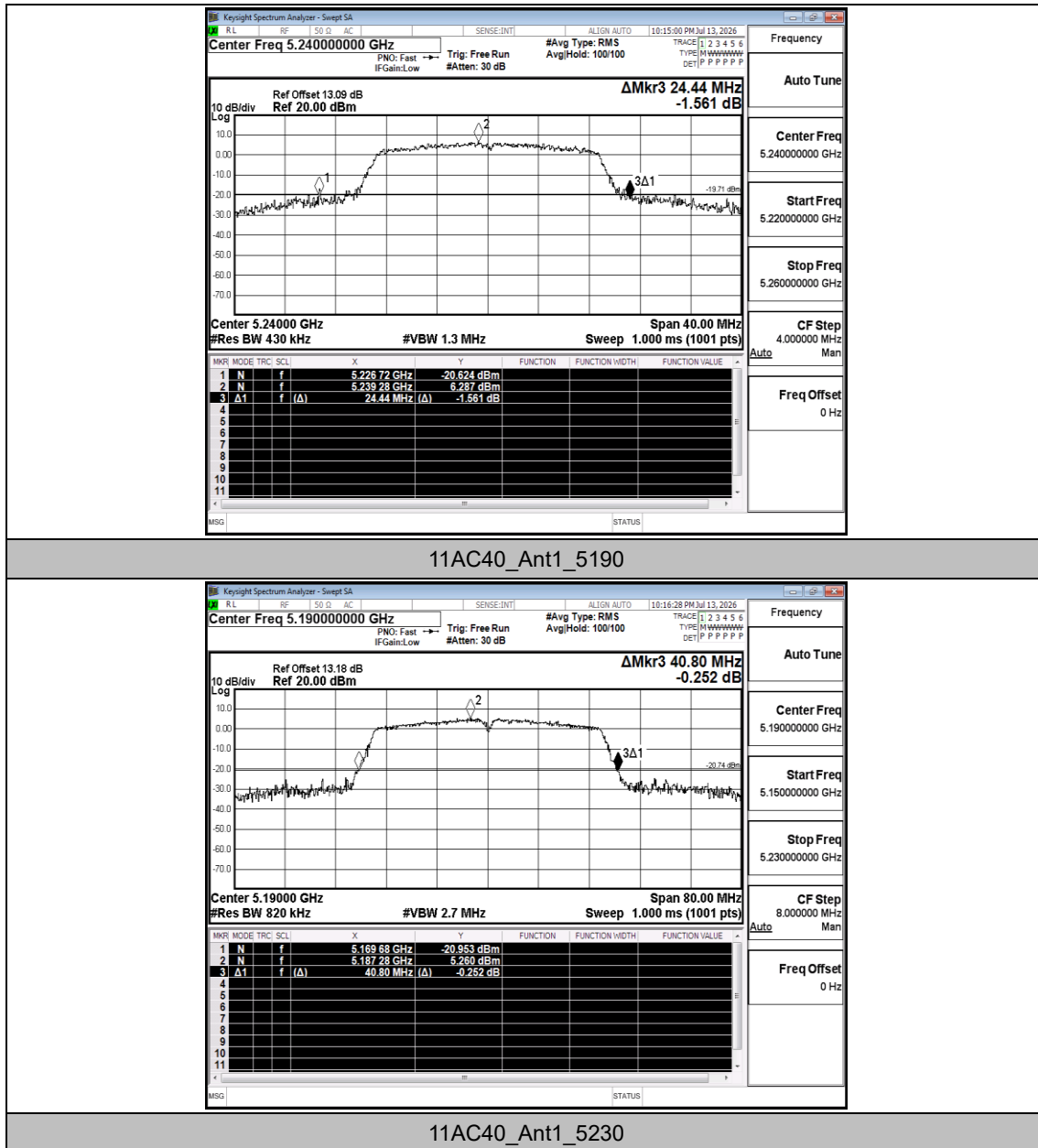


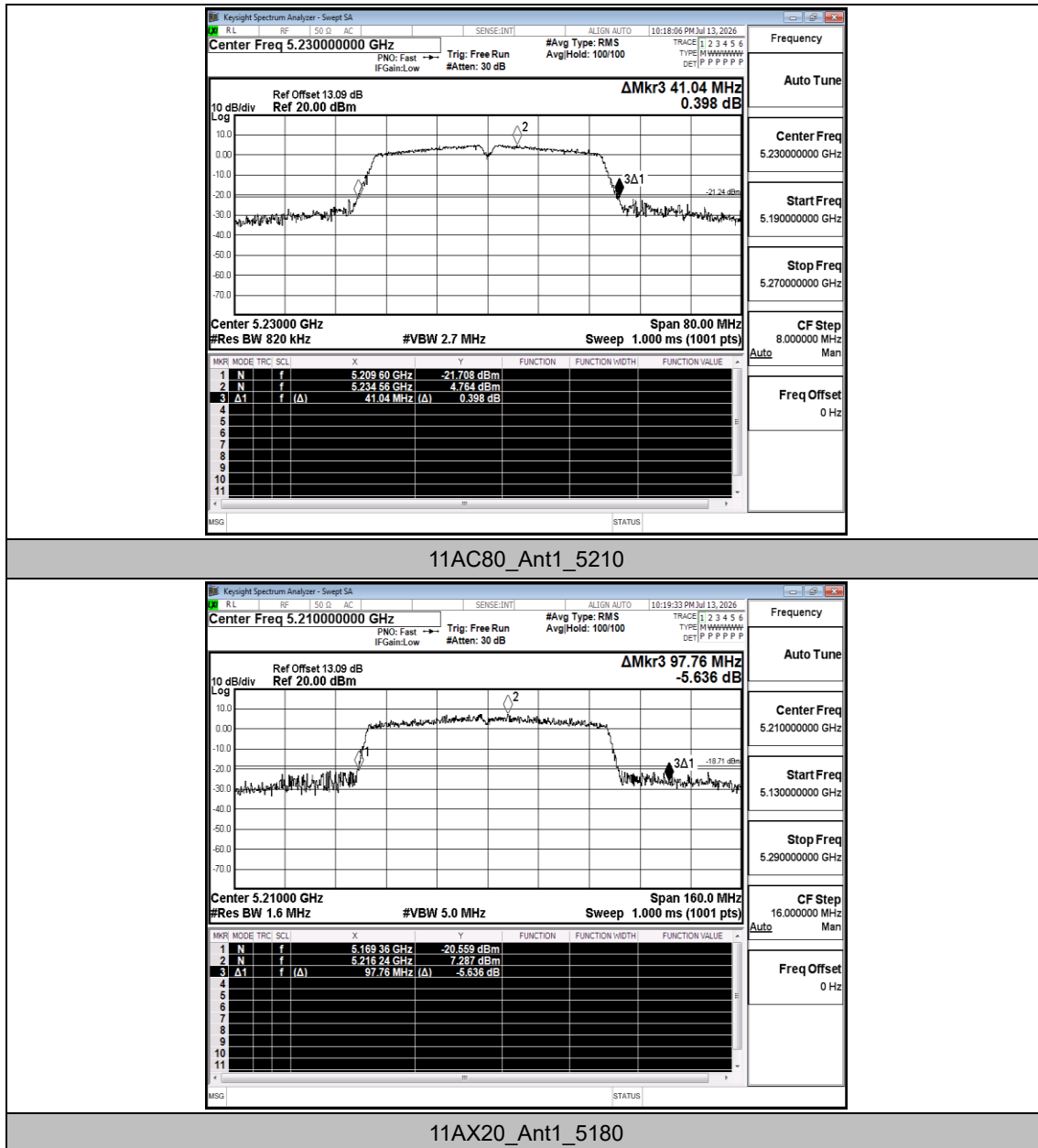


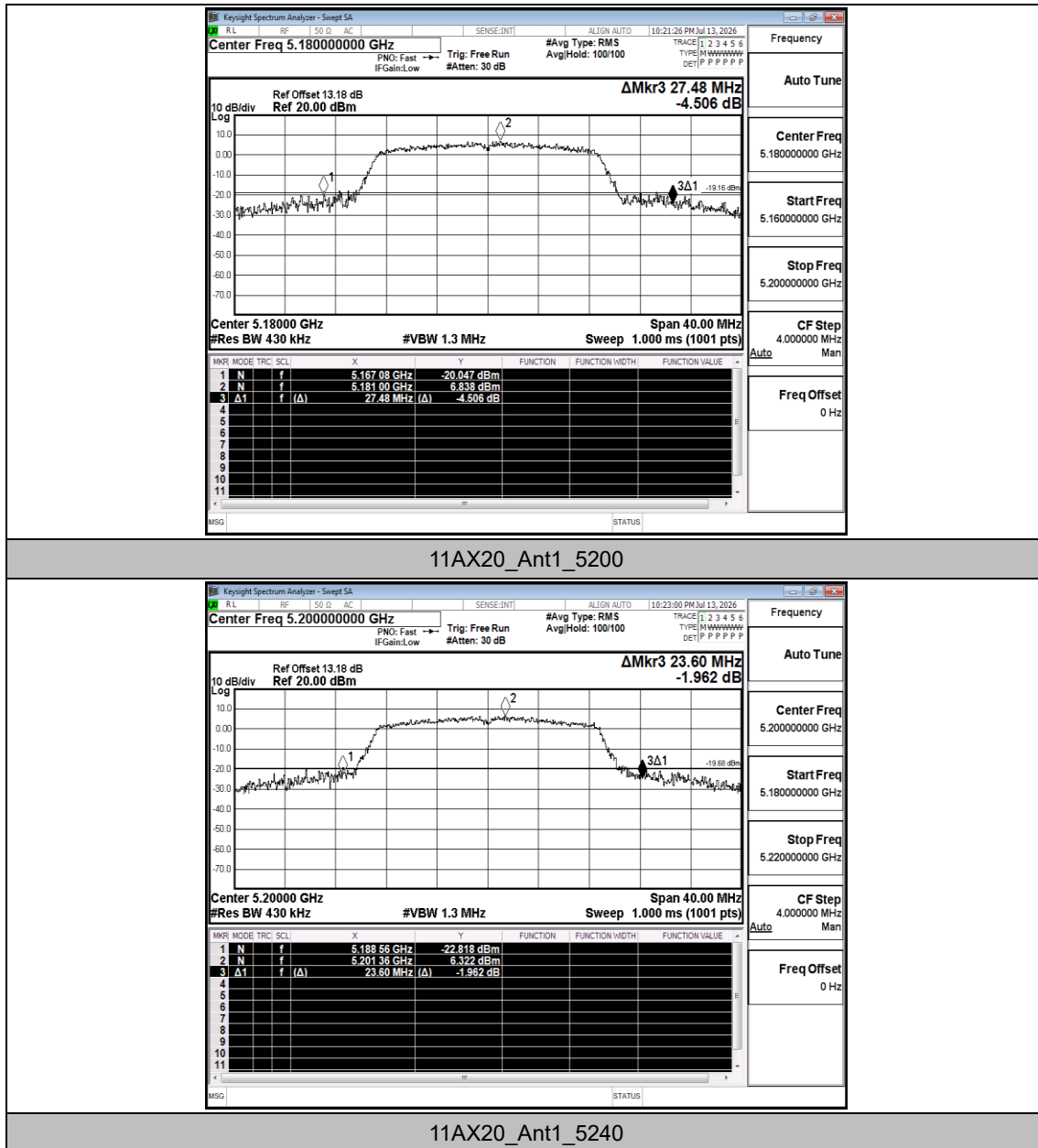


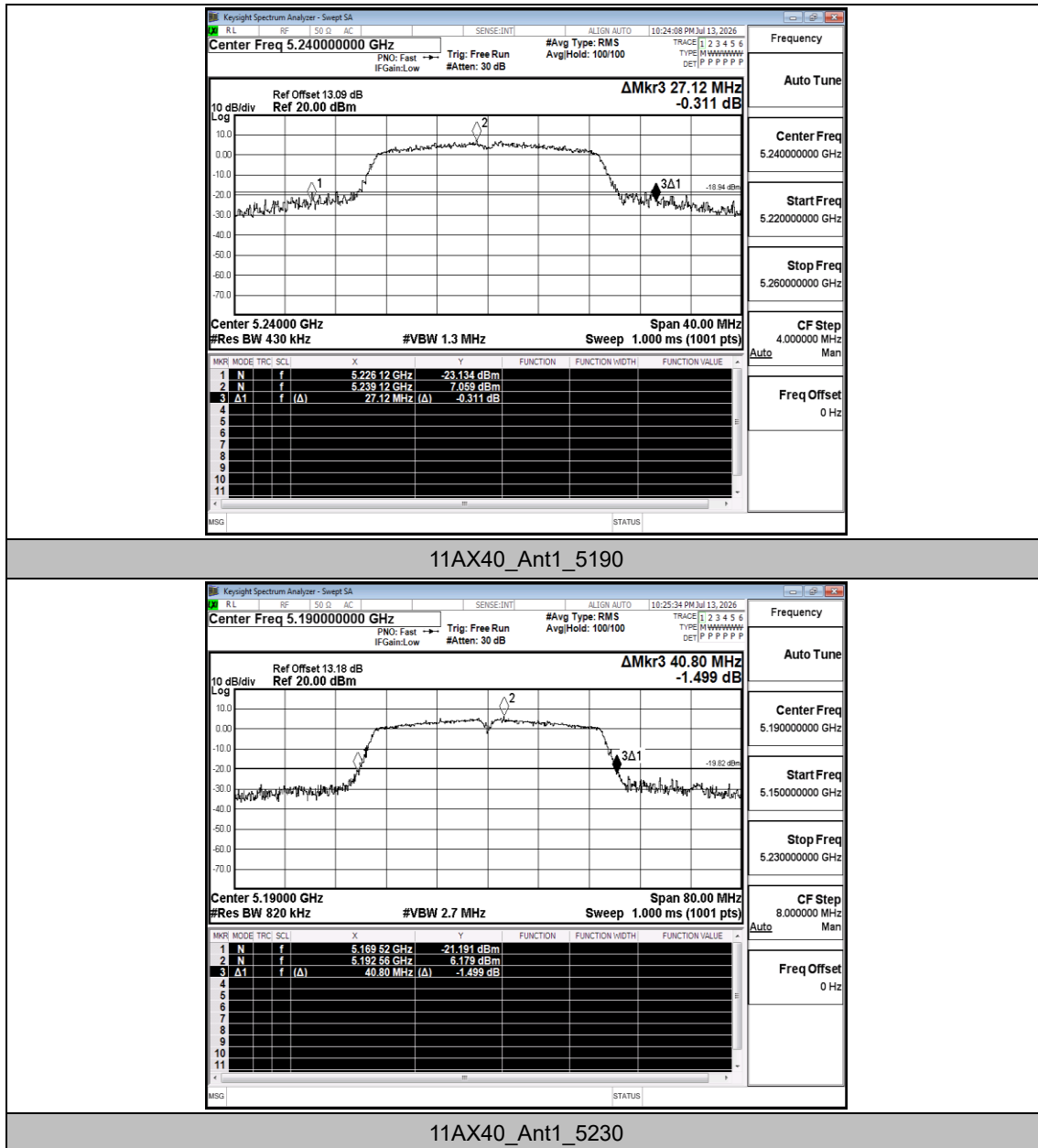


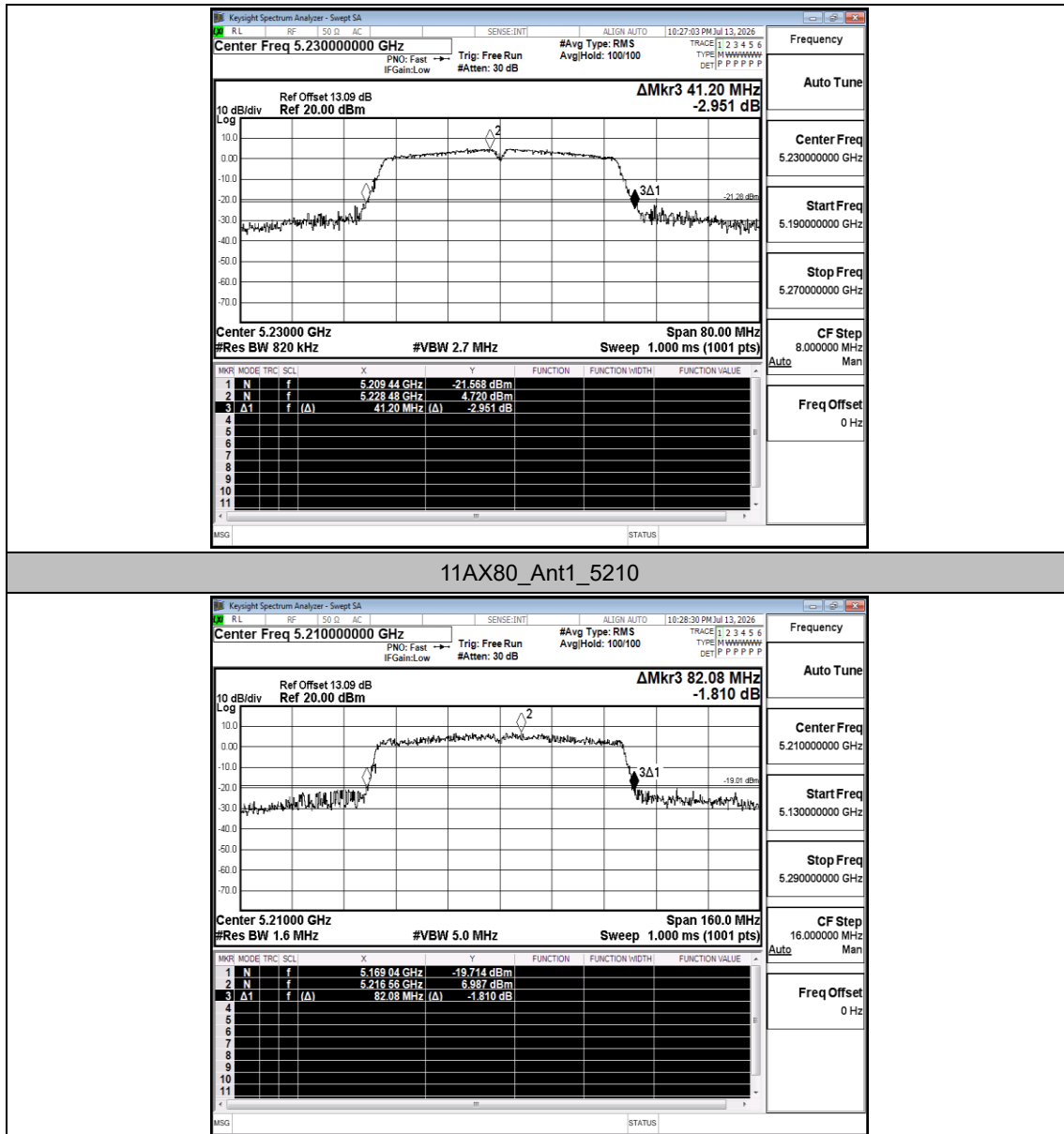












D.2 Maximum conducted output power

Test Result

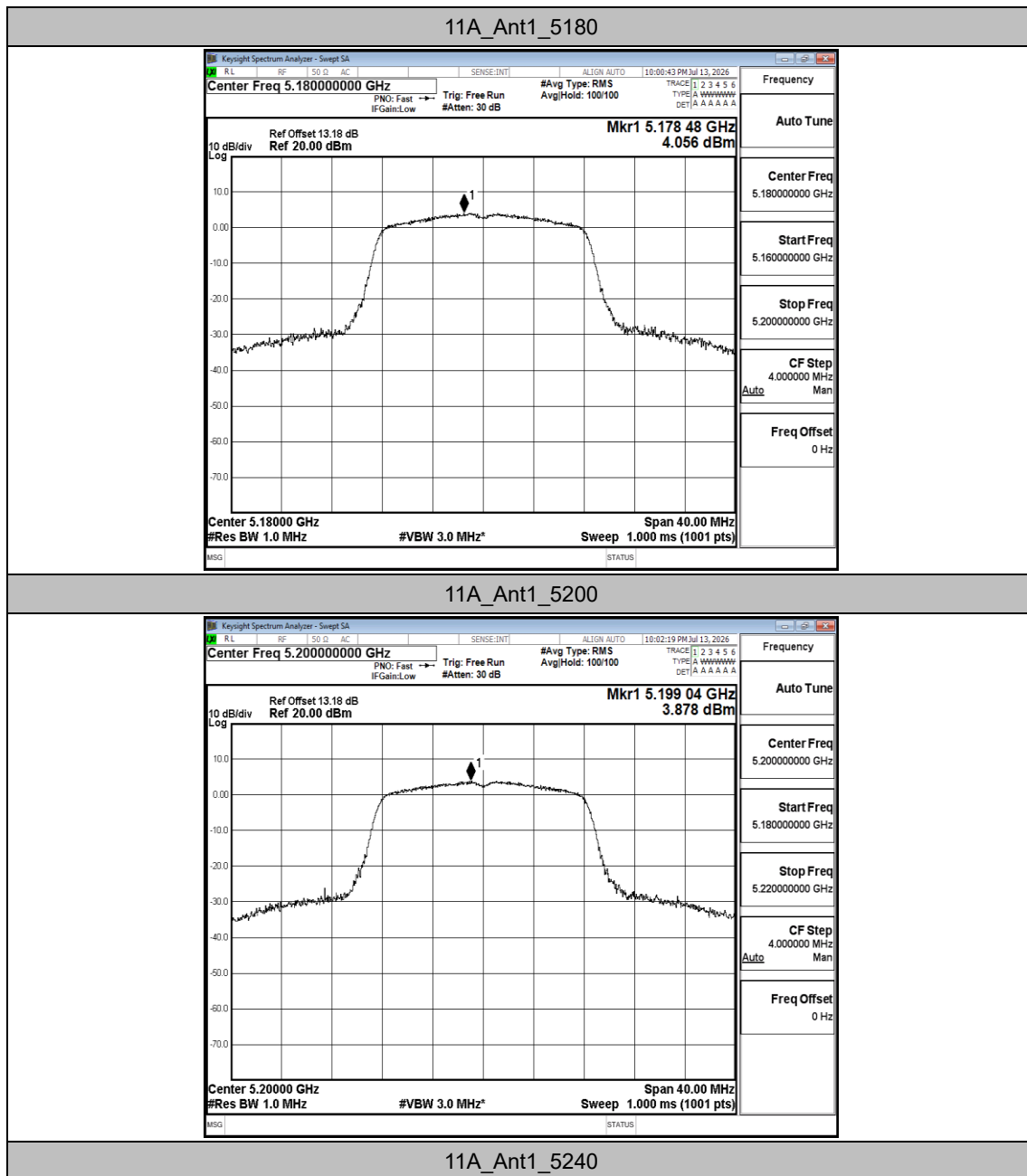
TestMode	Antenna	Freq (MHz)	TPC Mode	Measured Power [dBm]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	NA	15.34	0.15	15.49	≤23.98	PASS
		5200	NA	15.49	0.15	15.64	≤23.98	PASS
		5240	NA	15.33	0.12	15.45	≤23.98	PASS
11N20	Ant1	5180	NA	15.47	0.16	15.63	≤23.98	PASS
		5200	NA	15.27	0.13	15.40	≤23.98	PASS
		5240	NA	15.31	0.13	15.44	≤23.98	PASS
11N40	Ant1	5190	NA	14.79	0.26	15.05	≤23.98	PASS
		5230	NA	15.33	0.26	15.59	≤23.98	PASS
11AC20	Ant1	5180	NA	14.85	0.13	14.98	≤23.98	PASS
		5200	NA	14.92	0.13	15.05	≤23.98	PASS
		5240	NA	14.86	0.16	15.02	≤23.98	PASS
11AC40	Ant1	5190	NA	15.58	0.32	15.90	≤23.98	PASS
		5230	NA	15.10	0.32	15.42	≤23.98	PASS
11AC80	Ant1	5210	NA	14.93	0.63	15.56	≤23.98	PASS
11AX20	Ant1	5180	NA	15.06	0.16	15.22	≤23.98	PASS
		5200	NA	15.05	0.13	15.18	≤23.98	PASS
		5240	NA	14.70	0.13	14.83	≤23.98	PASS
11AX40	Ant1	5190	NA	15.13	0.26	15.39	≤23.98	PASS
		5230	NA	15.06	0.26	15.32	≤23.98	PASS
11AX80	Ant1	5210	NA	14.83	0.63	15.46	≤23.98	PASS

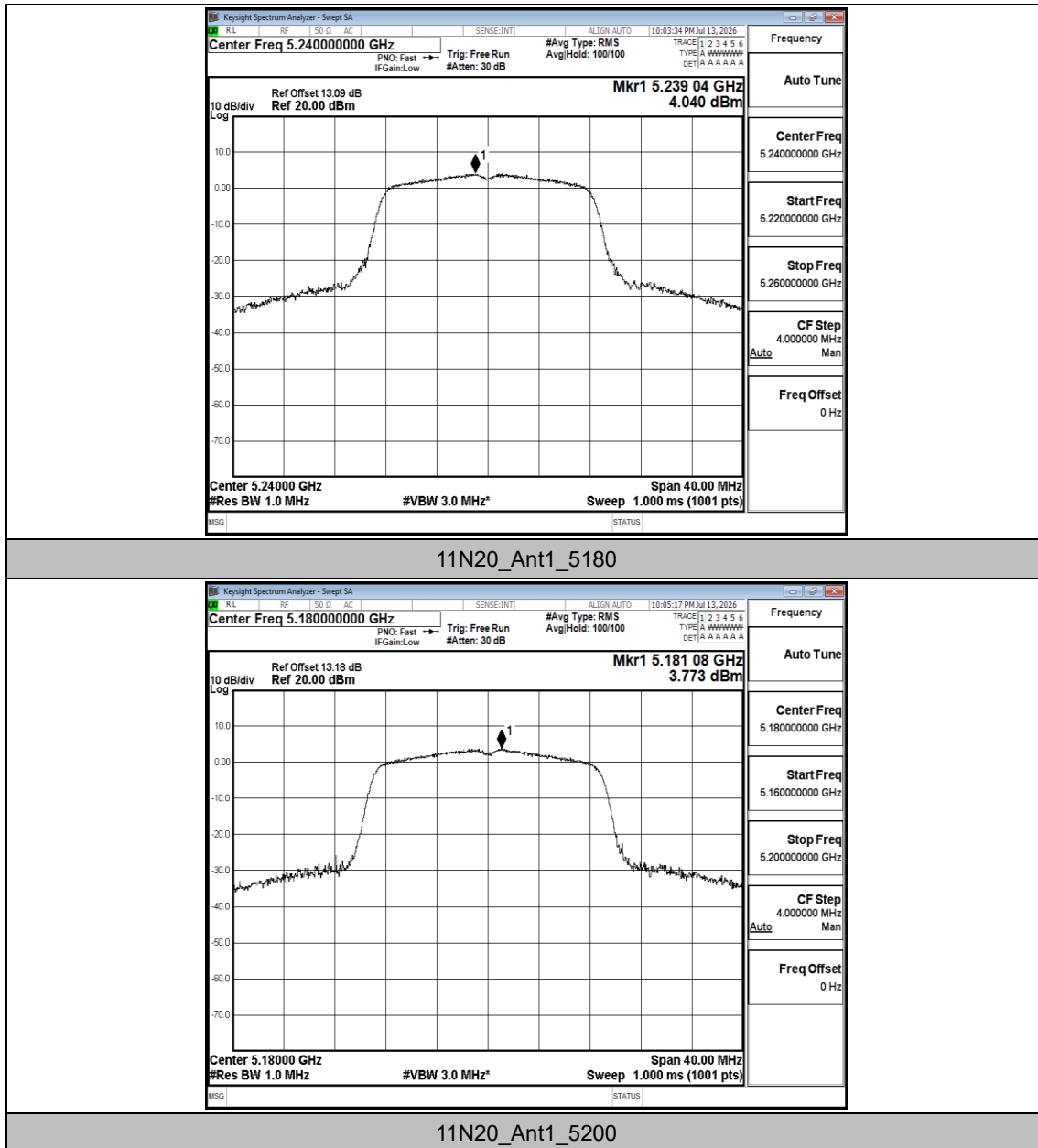
D.3 Maximum power spectral density

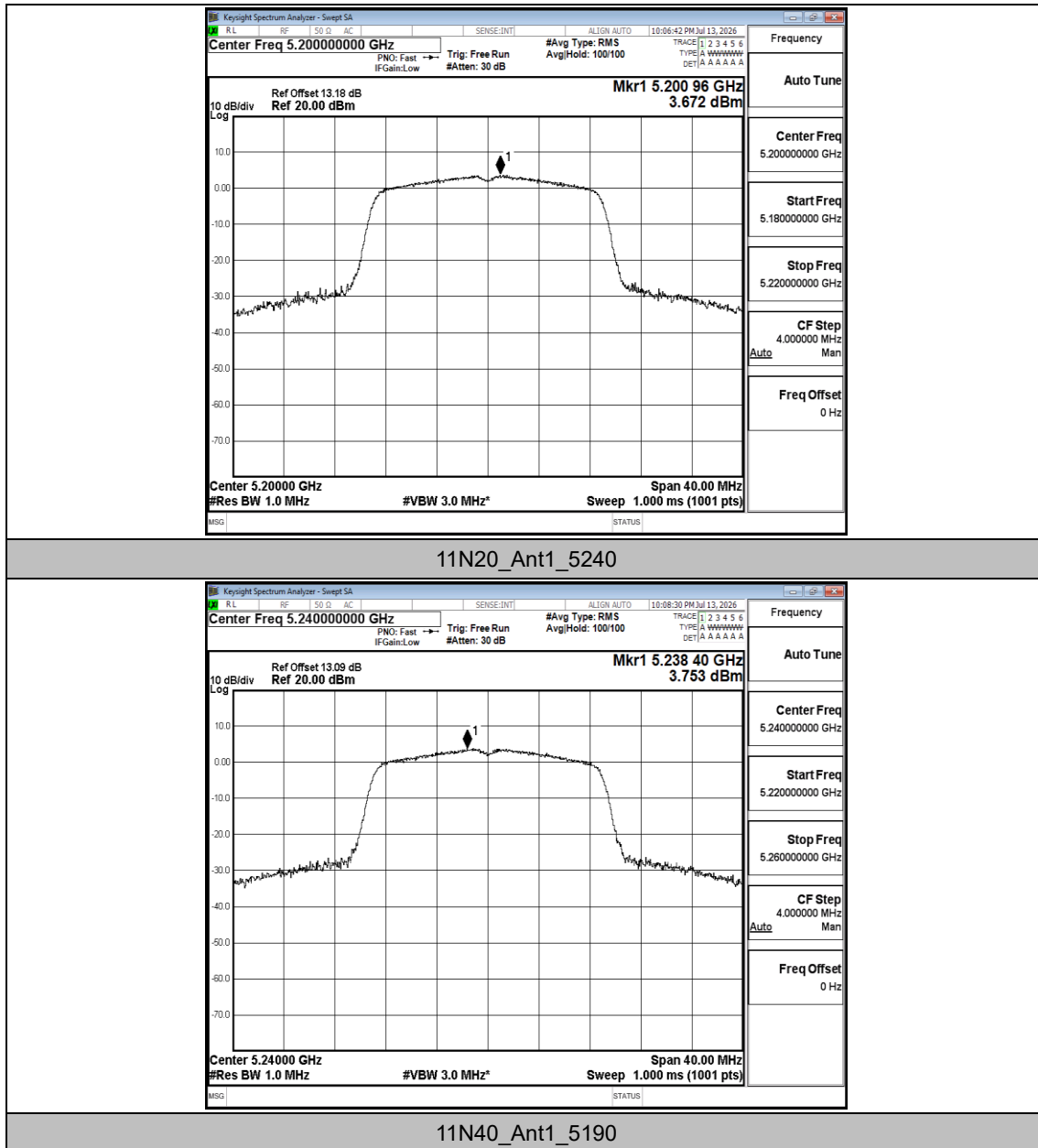
Test Result

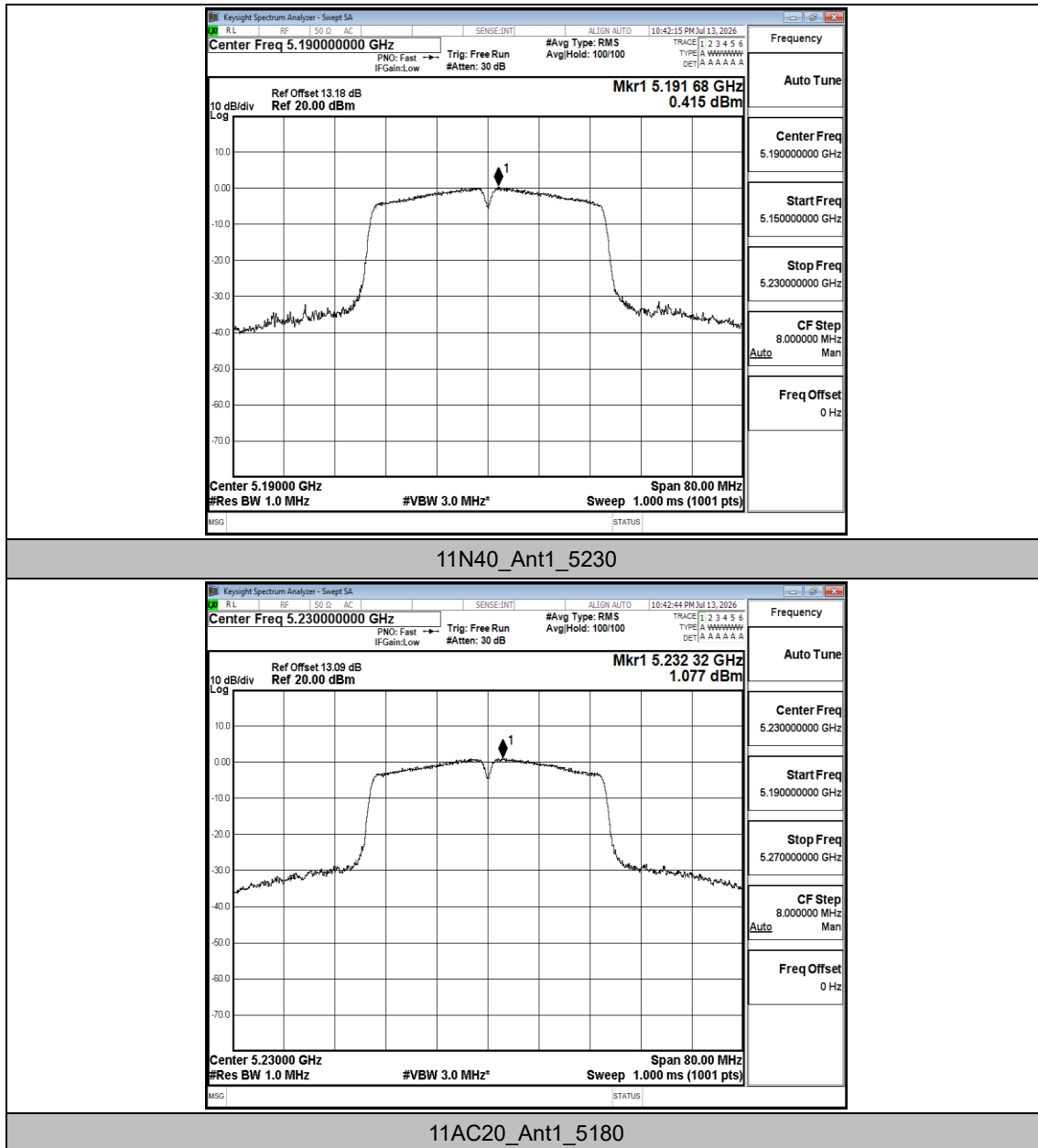
TestMode	Antenna	Freq (MHz)	Raw Data [dBm/MHz]	DC Factor	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	4.06	0.15	4.21	≤11.00	PASS
		5200	3.88	0.15	4.03	≤11.00	PASS
		5240	4.04	0.12	4.16	≤11.00	PASS
11N20	Ant1	5180	3.77	0.16	3.93	≤11.00	PASS
		5200	3.67	0.13	3.80	≤11.00	PASS
		5240	3.75	0.13	3.88	≤11.00	PASS
11N40	Ant1	5190	0.42	0.26	0.68	≤11.00	PASS
		5230	1.08	0.26	1.34	≤11.00	PASS
11AC20	Ant1	5180	3.3	0.13	3.43	≤11.00	PASS
		5200	3.19	0.13	3.32	≤11.00	PASS
		5240	3.16	0.16	3.32	≤11.00	PASS
11AC40	Ant1	5190	0.94	0.26	1.20	≤11.00	PASS
		5230	0.62	0.32	0.94	≤11.00	PASS
11AC80	Ant1	5210	-2.09	0.63	-1.46	≤11.00	PASS
11AX20	Ant1	5180	3.39	0.16	3.55	≤11.00	PASS
		5200	3.22	0.13	3.35	≤11.00	PASS
		5240	3.3	0.13	3.43	≤11.00	PASS
11AX40	Ant1	5190	0.66	0.26	0.92	≤11.00	PASS
		5230	0.6	0.26	0.86	≤11.00	PASS
11AX80	Ant1	5210	-2.17	0.63	-1.54	≤11.00	PASS

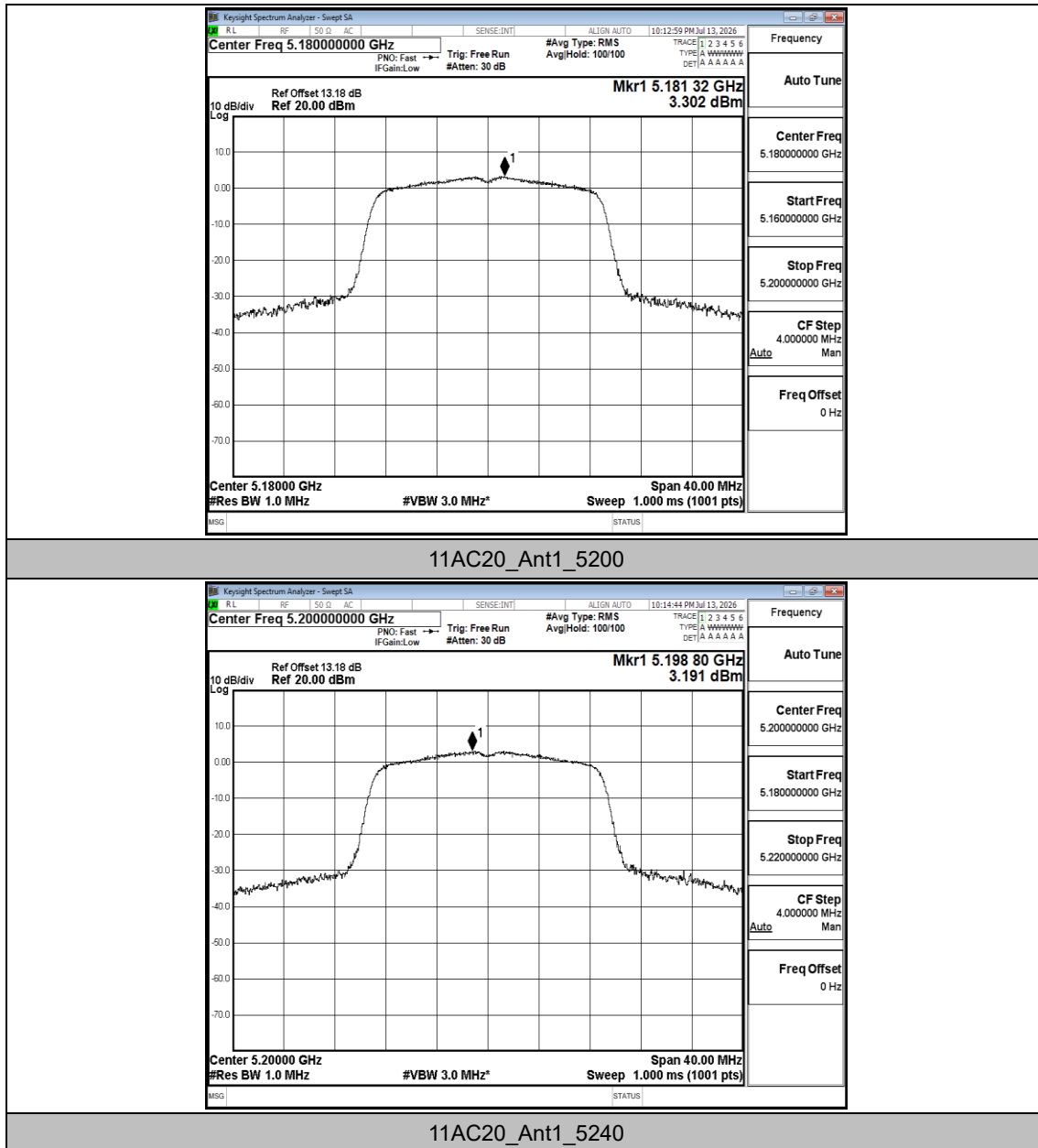
Test Graphs

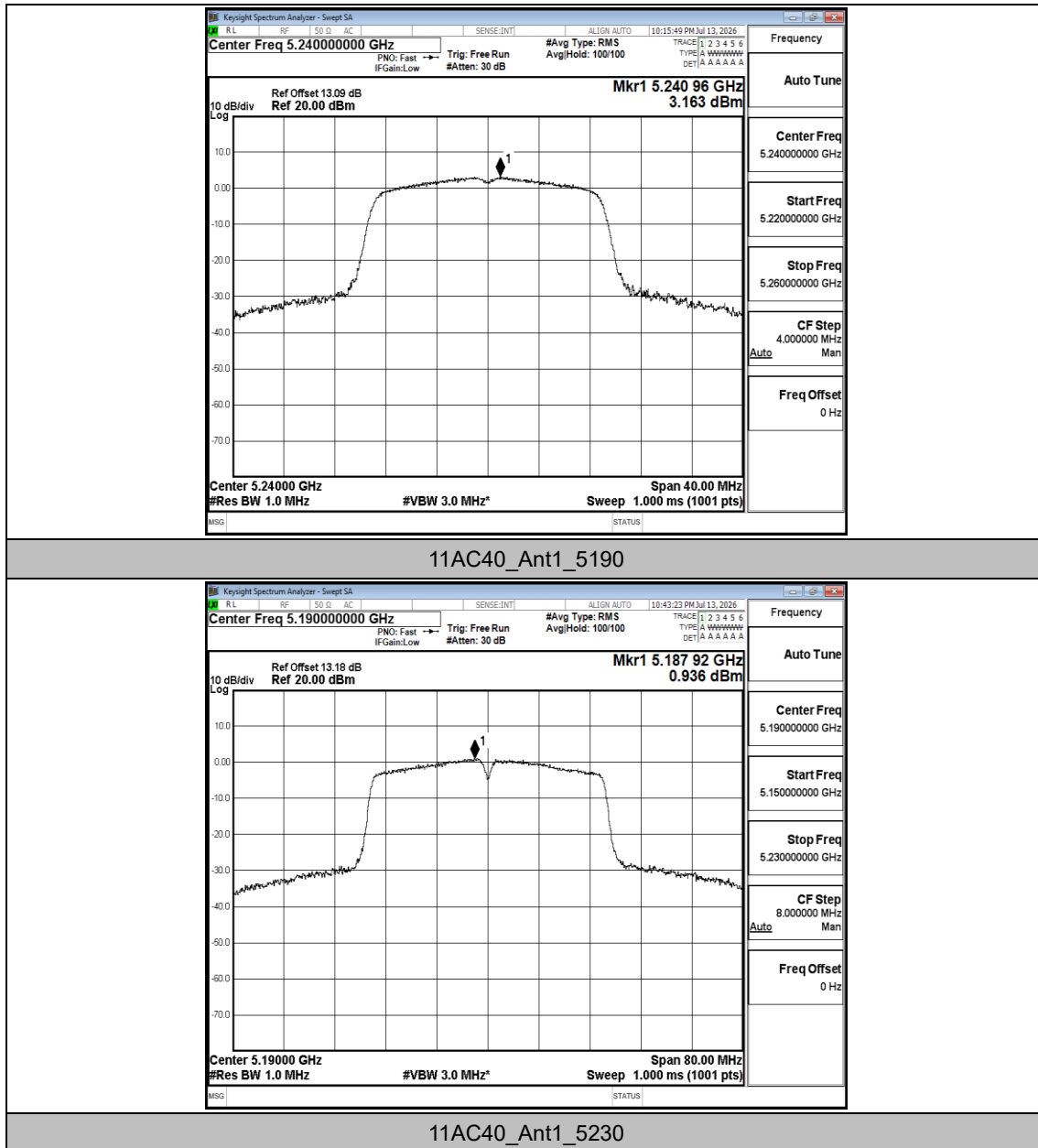


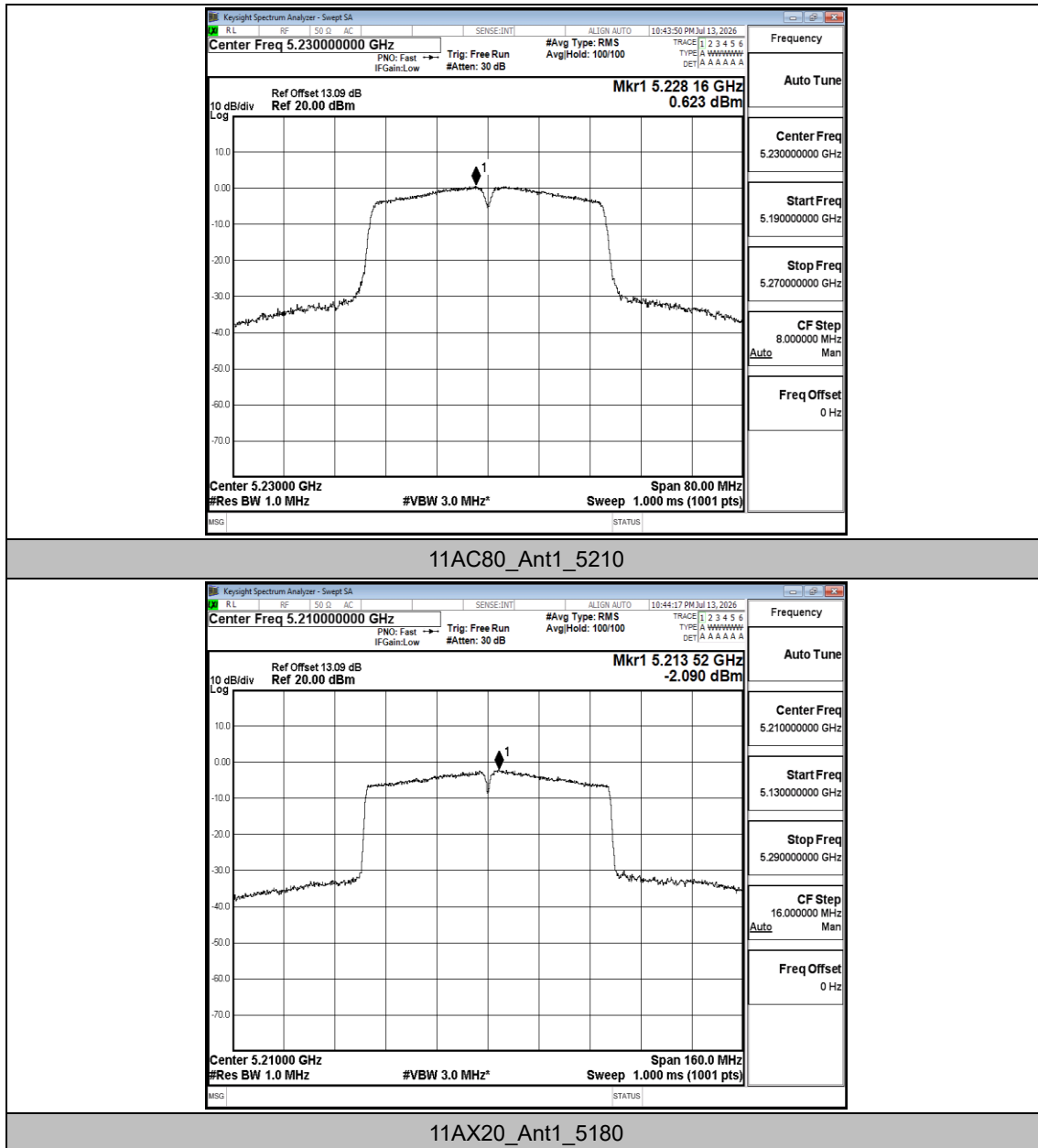


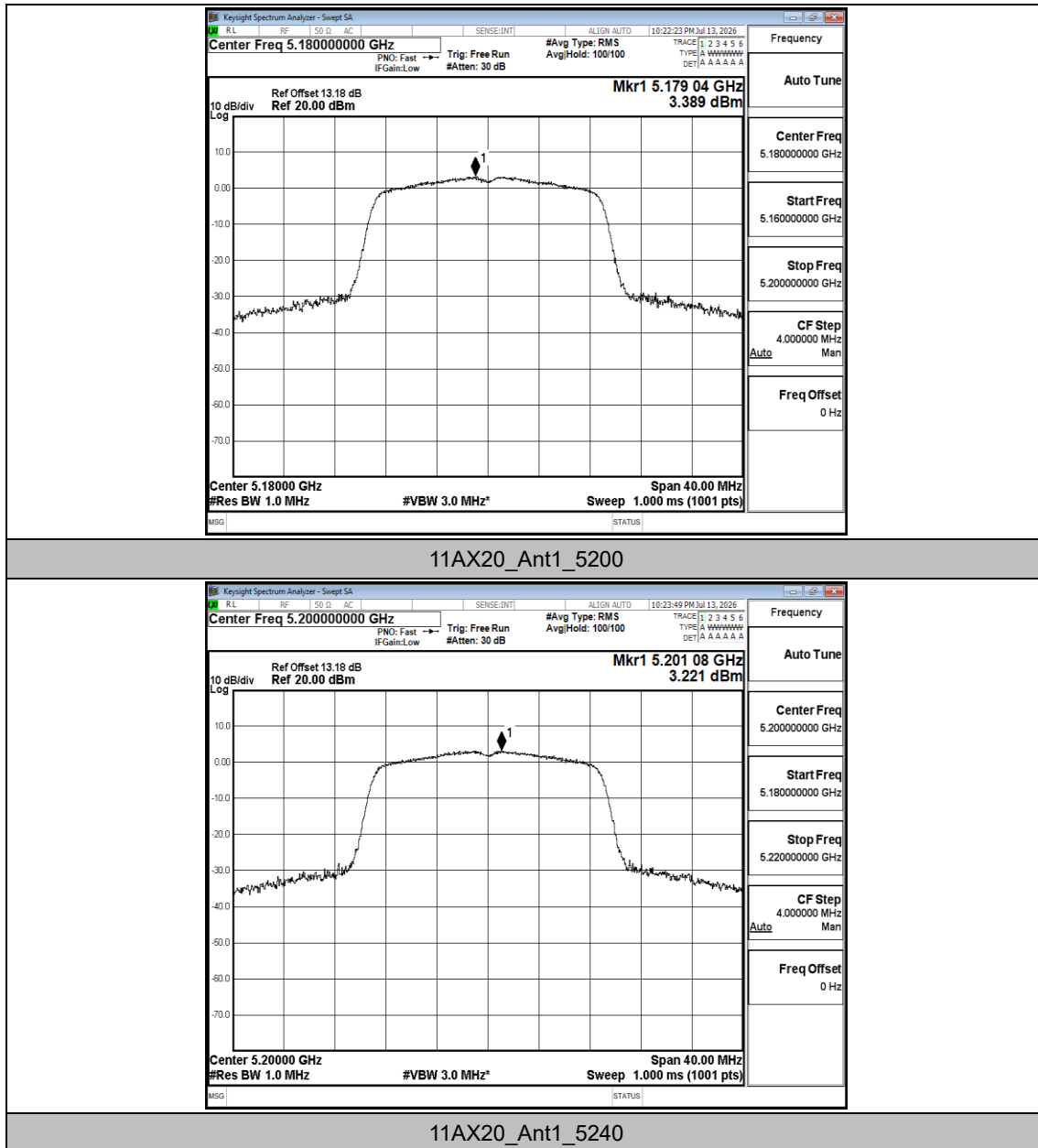


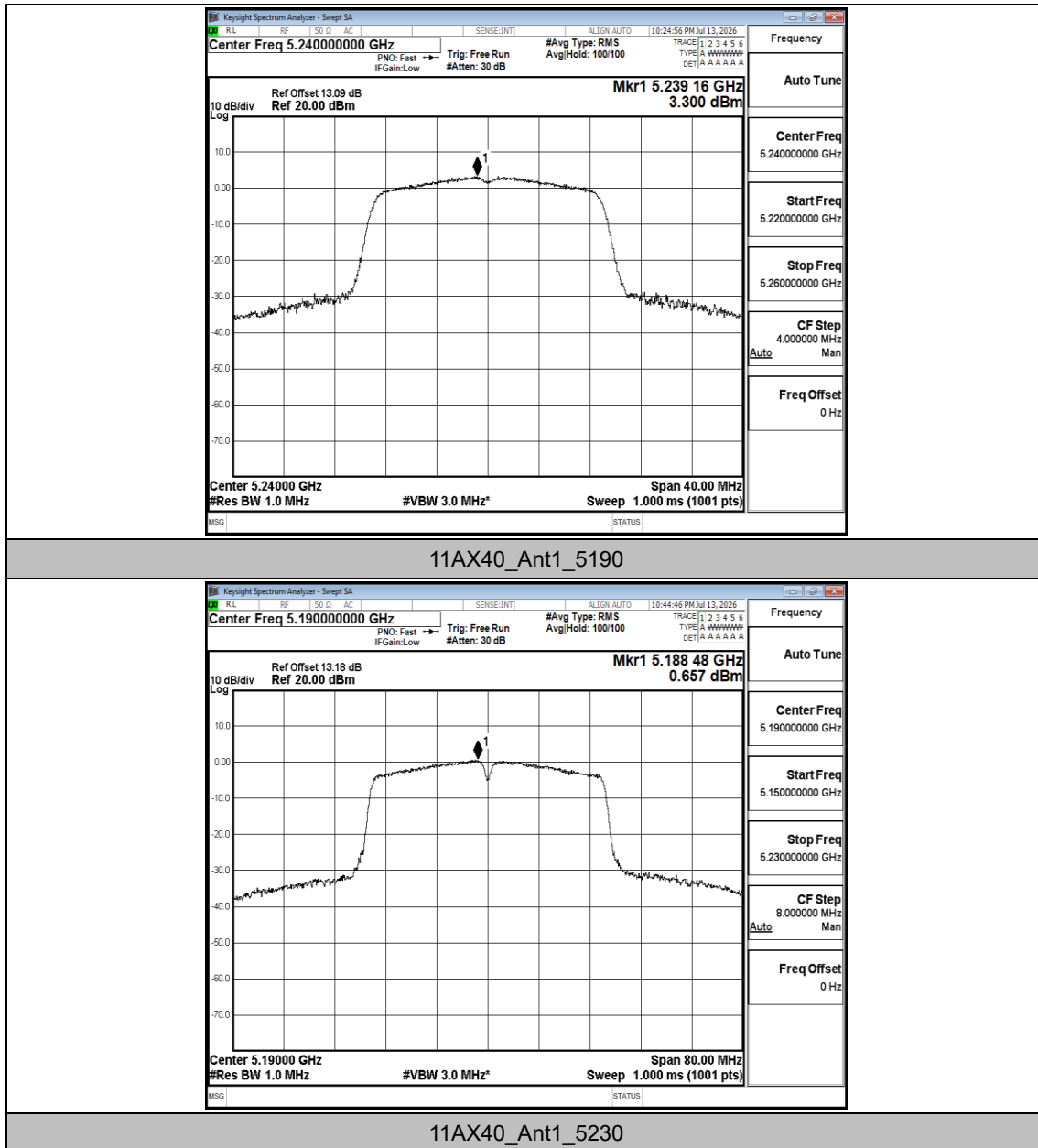


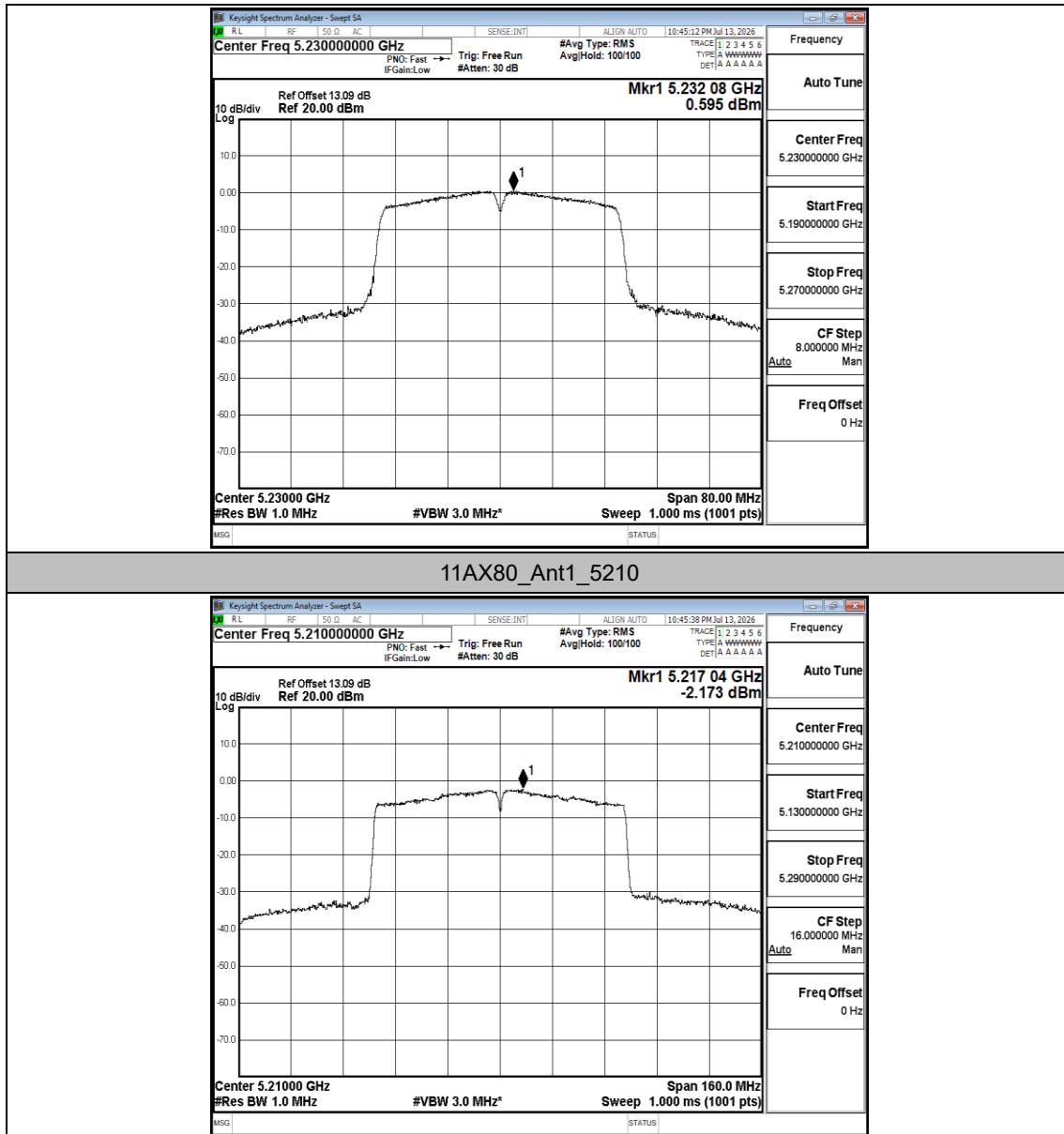












D.4 Emissions in Restricted Bands

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	-61.88	≤-45.66	4.31	0.15	37.78	≤54	PASS
				AV	5143.300	-54.97	≤-45.66	4.31	0.15	44.69	≤54	PASS
				AV	5150.000	-55.23	≤-45.66	4.31	0.15	44.43	≤54	PASS
				Peak	4500.000	-53.07	≤-31.31	4.31	0.00	46.44	≤68.2	PASS
				Peak	5149.600	-43.67	≤-31.31	4.31	0.00	55.84	≤68.2	PASS
				Peak	5150.000	-45.46	≤-31.31	4.31	0.00	54.05	≤68.2	PASS
		High	5240	AV	5350.000	-56.9	≤-45.63	4.31	0.12	42.73	≤54	PASS
				AV	5354.640	-56.53	≤-45.63	4.31	0.12	43.10	≤54	PASS
				AV	5460.000	-59.93	≤-45.63	4.31	0.12	39.70	≤54	PASS
				Peak	5350.000	-49.55	≤-31.31	4.31	0.00	49.96	≤68.2	PASS
				Peak	5360.880	-47.2	≤-31.31	4.31	0.00	52.31	≤68.2	PASS
				Peak	5460.000	-52.03	≤-31.31	4.31	0.00	47.48	≤68.2	PASS
11N20	Ant1	Low	5180	AV	4500.000	-62.27	≤-45.67	4.31	0.16	37.40	≤54	PASS
				AV	5149.600	-54.82	≤-45.67	4.31	0.16	44.85	≤54	PASS
				AV	5150.000	-54.12	≤-45.67	4.31	0.16	45.55	≤54	PASS
				Peak	4500.000	-54.09	≤-31.31	4.31	0.00	45.42	≤68.2	PASS
				Peak	5141.900	-39.99	≤-31.31	4.31	0.00	59.52	≤68.2	PASS
				Peak	5150.000	-43.18	≤-31.31	4.31	0.00	56.33	≤68.2	PASS
		High	5240	AV	5350.000	-56.92	≤-45.64	4.31	0.13	42.72	≤54	PASS
				AV	5352.000	-56.66	≤-45.64	4.31	0.13	42.98	≤54	PASS
				AV	5460.000	-60.57	≤-45.64	4.31	0.13	39.07	≤54	PASS
				Peak	5350.000	-48.27	≤-31.31	4.31	0.00	51.24	≤68.2	PASS
				Peak	5352.240	-45.53	≤-31.31	4.31	0.00	53.98	≤68.2	PASS
				Peak	5460.000	-52.13	≤-31.31	4.31	0.00	47.38	≤68.2	PASS
11N40	Ant1	Low	5190	AV	4500.000	-62.4	≤-45.77	4.31	0.26	37.37	≤54	PASS
				AV	5146.100	-47.51	≤-45.77	4.31	0.26	52.26	≤54	PASS
				AV	5150.000	-46.26	≤-45.77	4.31	0.26	53.51	≤54	PASS
				Peak	4500.000	-53.47	≤-31.31	4.31	0.00	46.04	≤68.2	PASS
				Peak	5148.900	-30.27	≤-31.31	4.31	0.00	69.24	≤68.2	FAIL
				Peak	5150.000	-35.37	≤-31.31	4.31	0.00	64.14	≤68.2	PASS
		High	5230	AV	5350.000	-57.38	≤-45.77	4.31	0.26	42.39	≤54	PASS
				AV	5350.280	-56.46	≤-45.77	4.31	0.26	43.31	≤54	PASS
				AV	5460.000	-60.75	≤-45.77	4.31	0.26	39.02	≤54	PASS
				Peak	5350.000	-49.65	≤-31.31	4.31	0.00	49.86	≤68.2	PASS

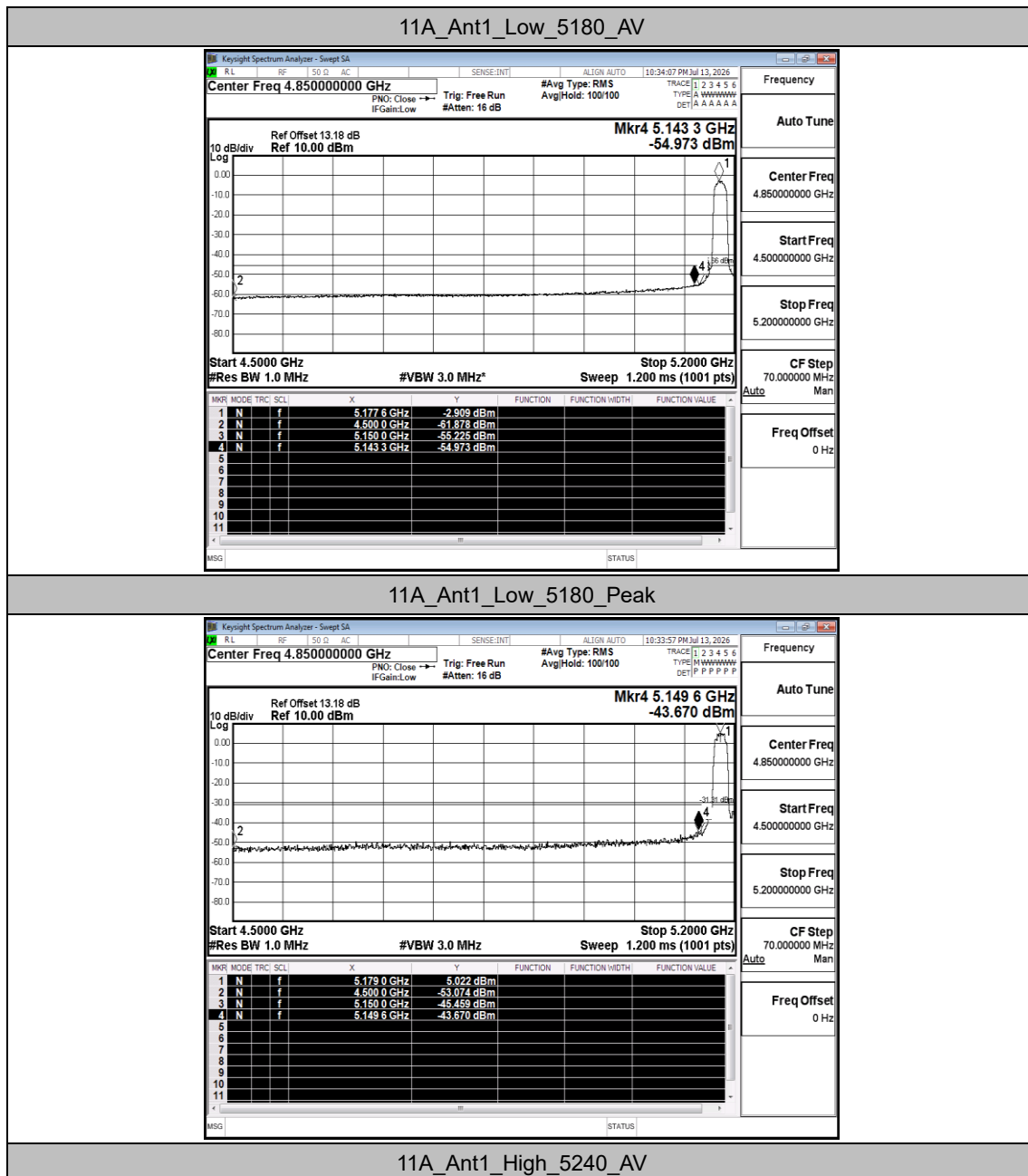
				Peak	5388.760	-47.03	≤-31.31	4.31	0.00	52.48	≤68.2	PASS
				Peak	5460.000	-49.2	≤-31.31	4.31	0.00	50.31	≤68.2	PASS
11AC20	Ant1	Low	5180	AV	4500.000	-62.06	≤-45.64	4.31	0.13	37.58	≤54	PASS
				AV	5149.600	-54.24	≤-45.64	4.31	0.13	45.40	≤54	PASS
				AV	5150.000	-54.14	≤-45.64	4.31	0.13	45.50	≤54	PASS
				Peak	4500.000	-54.08	≤-31.31	4.31	0.00	45.43	≤68.2	PASS
				Peak	5148.200	-42.7	≤-31.31	4.31	0.00	56.81	≤68.2	PASS
				Peak	5150.000	-46.94	≤-31.31	4.31	0.00	52.57	≤68.2	PASS
		High	5240	AV	5350.000	-56.68	≤-45.67	4.31	0.16	42.99	≤54	PASS
				AV	5355.840	-56.41	≤-45.67	4.31	0.16	43.26	≤54	PASS
				AV	5460.000	-60.35	≤-45.67	4.31	0.16	39.32	≤54	PASS
				Peak	5350.000	-49.69	≤-31.31	4.31	0.00	49.82	≤68.2	PASS
				Peak	5353.680	-46.72	≤-31.31	4.31	0.00	52.79	≤68.2	PASS
				Peak	5460.000	-52.17	≤-31.31	4.31	0.00	47.34	≤68.2	PASS
11AC40	Ant1	Low	5190	AV	4500.000	-61.81	≤-45.77	4.31	0.26	37.96	≤54	PASS
				AV	5148.200	-47.81	≤-45.77	4.31	0.26	51.96	≤54	PASS
				AV	5150.000	-47.62	≤-45.77	4.31	0.26	52.15	≤54	PASS
				Peak	4500.000	-54.24	≤-31.31	4.31	0.00	45.27	≤68.2	PASS
				Peak	5149.600	-32.9	≤-31.31	4.31	0.00	66.61	≤68.2	PASS
				Peak	5150.000	-36.32	≤-31.31	4.31	0.00	63.19	≤68.2	PASS
		High	5230	AV	5350.000	-57.21	≤-45.83	4.31	0.32	42.62	≤54	PASS
				AV	5351.580	-56.63	≤-45.83	4.31	0.32	43.20	≤54	PASS
				AV	5460.000	-60.07	≤-45.83	4.31	0.32	39.76	≤54	PASS
				Peak	5350.000	-49.58	≤-31.31	4.31	0.00	49.93	≤68.2	PASS
				Peak	5359.640	-47.41	≤-31.31	4.31	0.00	52.10	≤68.2	PASS
				Peak	5460.000	-52.79	≤-31.31	4.31	0.00	46.72	≤68.2	PASS
11AC80	Ant1	Low	5210	AV	4500.000	-62.53	≤-46.14	4.31	0.63	37.61	≤54	PASS
				AV	5149.500	-53.07	≤-46.14	4.31	0.63	47.07	≤54	PASS
				AV	5150.000	-53.82	≤-46.14	4.31	0.63	46.32	≤54	PASS
				Peak	4500.000	-54.36	≤-31.31	4.31	0.00	45.15	≤68.2	PASS
				Peak	5148.000	-40.04	≤-31.31	4.31	0.00	59.47	≤68.2	PASS
				Peak	5150.000	-44.31	≤-31.31	4.31	0.00	55.20	≤68.2	PASS
		High	5210	AV	5350.000	-55.66	≤-46.14	4.31	0.63	44.48	≤54	PASS
				AV	5352.480	-55.27	≤-46.14	4.31	0.63	44.87	≤54	PASS
				AV	5460.000	-59.86	≤-46.14	4.31	0.63	40.28	≤54	PASS
				Peak	5350.000	-45.15	≤-31.31	4.31	0.00	54.36	≤68.2	PASS
				Peak	5354.440	-41.42	≤-31.31	4.31	0.00	58.09	≤68.2	PASS
				Peak	5460.000	-52.8	≤-31.31	4.31	0.00	46.71	≤68.2	PASS
11AX20	Ant1	Low	5180	AV	4500.000	-61.9	≤-45.67	4.31	0.16	37.77	≤54	PASS
				AV	5148.200	-54.21	≤-45.67	4.31	0.16	45.46	≤54	PASS
				AV	5150.000	-54.42	≤-45.67	4.31	0.16	45.25	≤54	PASS

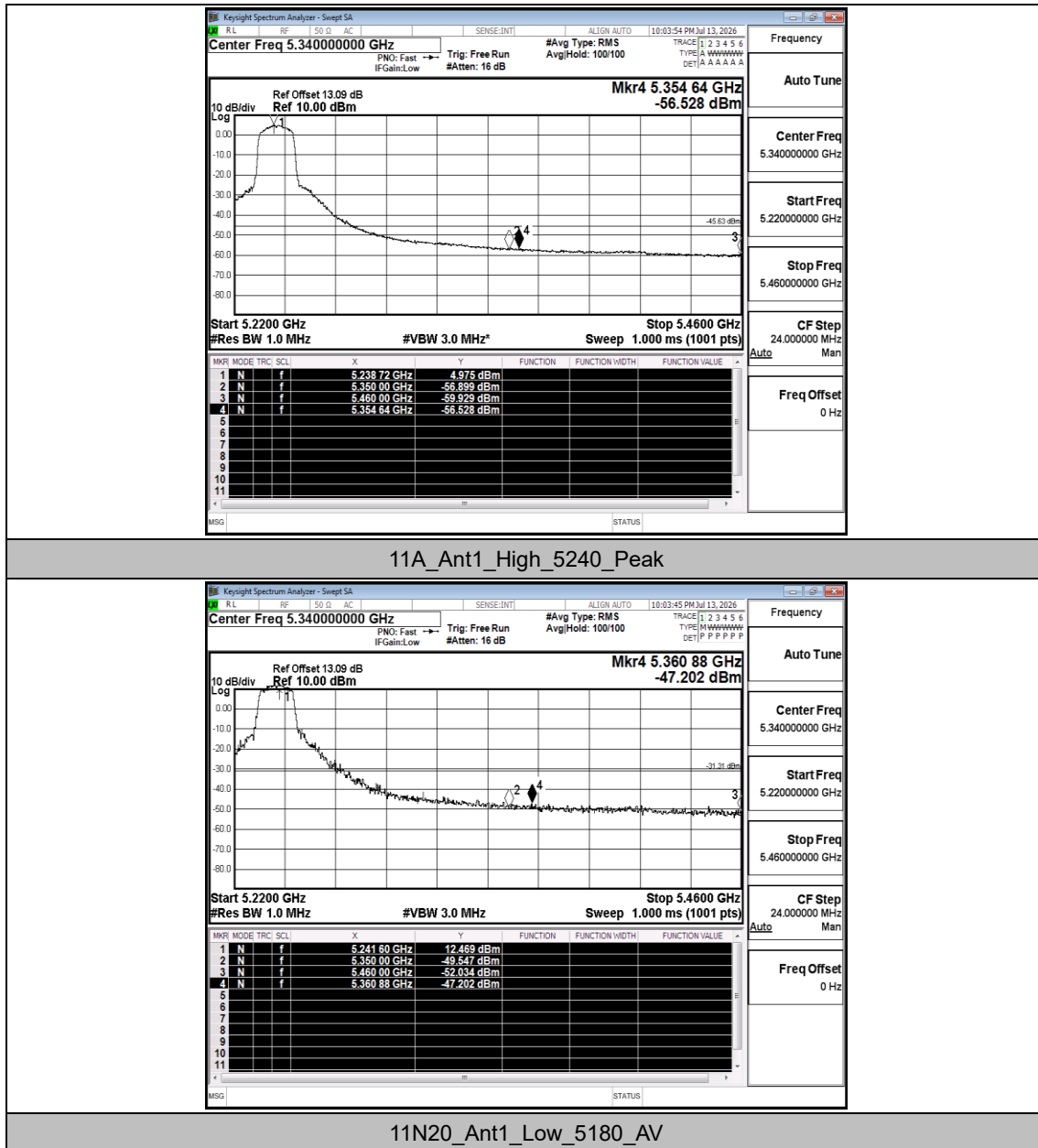
				Peak	4500.000	-52.81	≤-31.31	4.31	0.00	46.70	≤68.2	PASS
				Peak	5144.000	-44.85	≤-31.31	4.31	0.00	54.66	≤68.2	PASS
				Peak	5150.000	-43.73	≤-31.31	4.31	0.00	55.78	≤68.2	PASS
		High	5240	AV	5350.000	-56.93	≤-45.64	4.31	0.13	42.71	≤54	PASS
				AV	5350.560	-56.21	≤-45.64	4.31	0.13	43.43	≤54	PASS
				AV	5460.000	-60.19	≤-45.64	4.31	0.13	39.45	≤54	PASS
				Peak	5350.000	-49.71	≤-31.31	4.31	0.00	49.80	≤68.2	PASS
				Peak	5352.720	-46.52	≤-31.31	4.31	0.00	52.99	≤68.2	PASS
				Peak	5460.000	-52.73	≤-31.31	4.31	0.00	46.78	≤68.2	PASS
11AX40	Ant1	Low	5190	AV	4500.000	-62.33	≤-45.77	4.31	0.26	37.44	≤54	PASS
				AV	5149.600	-47.74	≤-45.77	4.31	0.26	52.03	≤54	PASS
				AV	5150.000	-48.16	≤-45.77	4.31	0.26	51.61	≤54	PASS
				Peak	4500.000	-53.66	≤-31.31	4.31	0.00	45.85	≤68.2	PASS
				Peak	5148.200	-34.4	≤-31.31	4.31	0.00	65.11	≤68.2	PASS
				Peak	5150.000	-32.86	≤-31.31	4.31	0.00	66.65	≤68.2	PASS
		High	5230	AV	5350.000	-57.32	≤-45.77	4.31	0.26	42.45	≤54	PASS
				AV	5351.840	-57.27	≤-45.77	4.31	0.26	42.50	≤54	PASS
				AV	5460.000	-60.5	≤-45.77	4.31	0.26	39.27	≤54	PASS
				Peak	5350.000	-47.86	≤-31.31	4.31	0.00	51.65	≤68.2	PASS
				Peak	5367.180	-47.39	≤-31.31	4.31	0.00	52.12	≤68.2	PASS
				Peak	5460.000	-51.61	≤-31.31	4.31	0.00	47.90	≤68.2	PASS
11AX80	Ant1	Low	5210	AV	4500.000	-62.28	≤-46.14	4.31	0.63	37.86	≤54	PASS
				AV	5149.500	-53.13	≤-46.14	4.31	0.63	47.01	≤54	PASS
				AV	5150.000	-52.77	≤-46.14	4.31	0.63	47.37	≤54	PASS
				Peak	4500.000	-54.15	≤-31.31	4.31	0.00	45.36	≤68.2	PASS
				Peak	5135.250	-41.6	≤-31.31	4.31	0.00	57.91	≤68.2	PASS
				Peak	5150.000	-43.34	≤-31.31	4.31	0.00	56.17	≤68.2	PASS
		High	5210	AV	5350.000	-54.64	≤-46.14	4.31	0.63	45.50	≤54	PASS
				AV	5354.440	-54.89	≤-46.14	4.31	0.63	45.25	≤54	PASS
				AV	5460.000	-60.53	≤-46.14	4.31	0.63	39.61	≤54	PASS
				Peak	5350.000	-46.32	≤-31.31	4.31	0.00	53.19	≤68.2	PASS
				Peak	5355.000	-41.03	≤-31.31	4.31	0.00	58.48	≤68.2	PASS
				Peak	5460.000	-51.69	≤-31.31	4.31	0.00	47.82	≤68.2	PASS

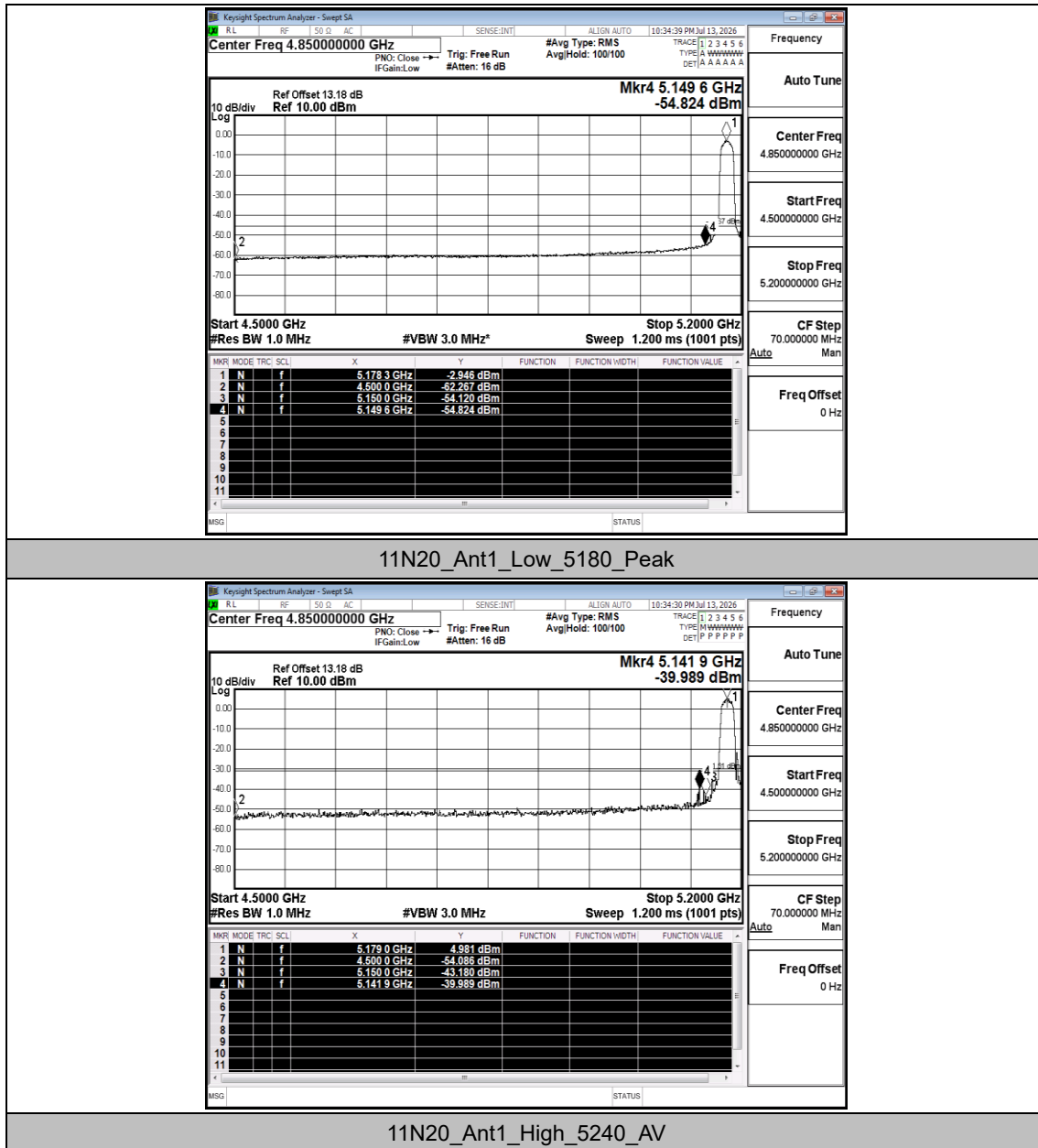
Note:

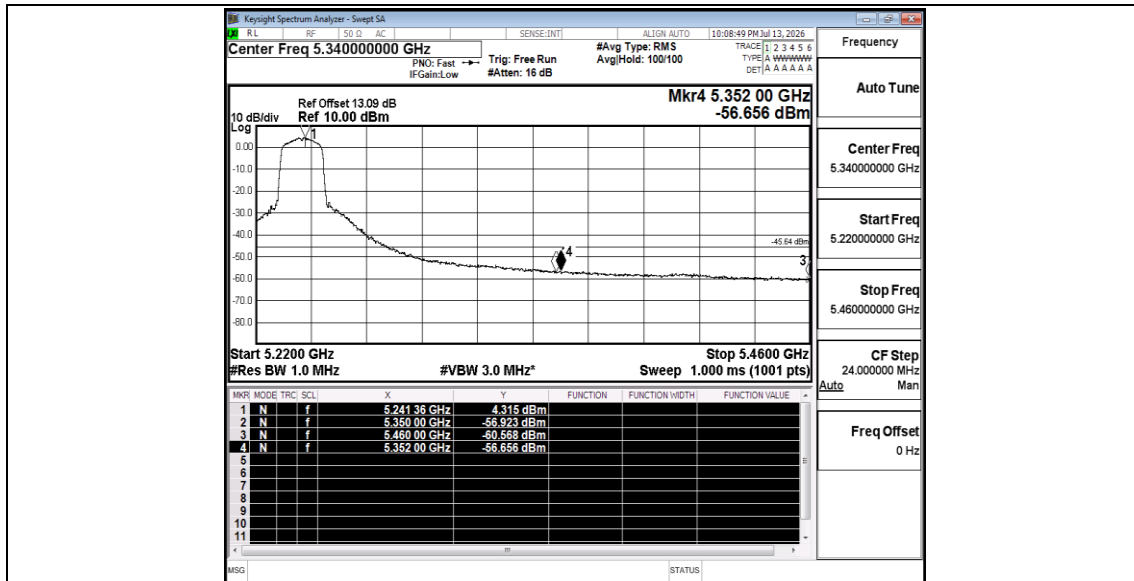
1. The Antenna Gain is compensated in the graph.

Test Graphs

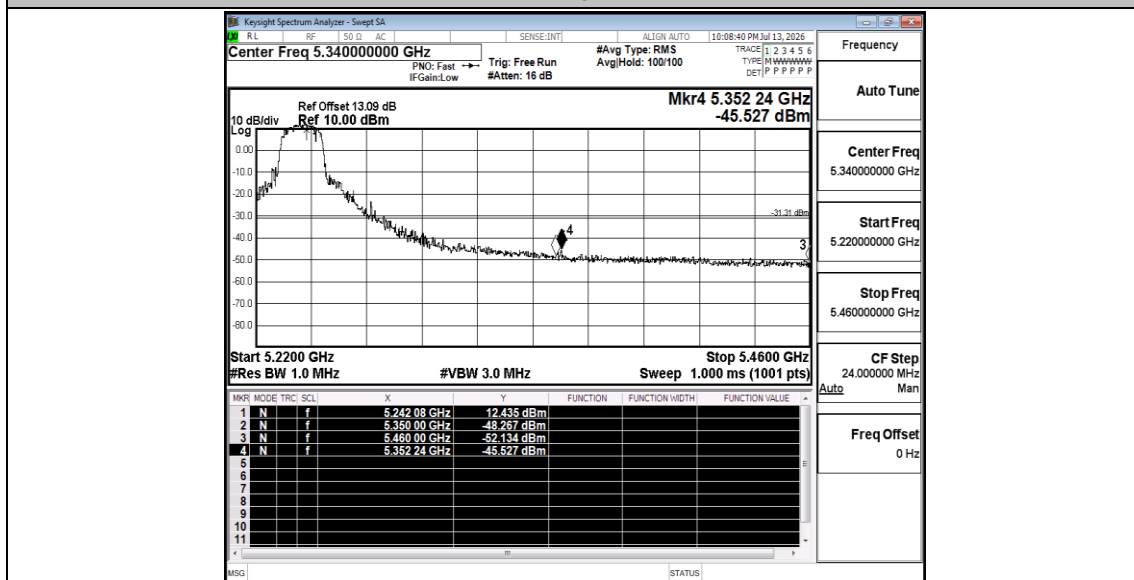




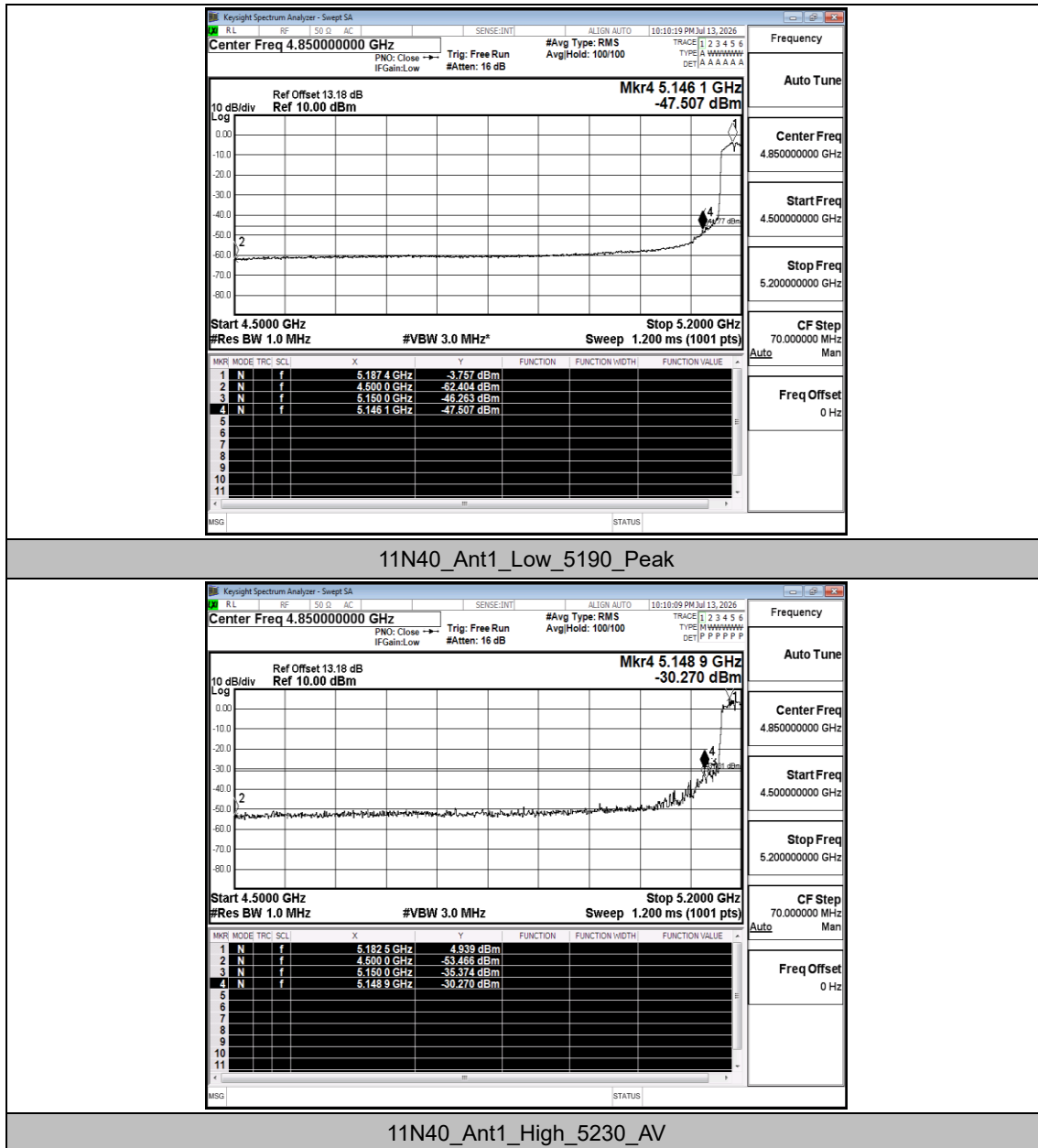


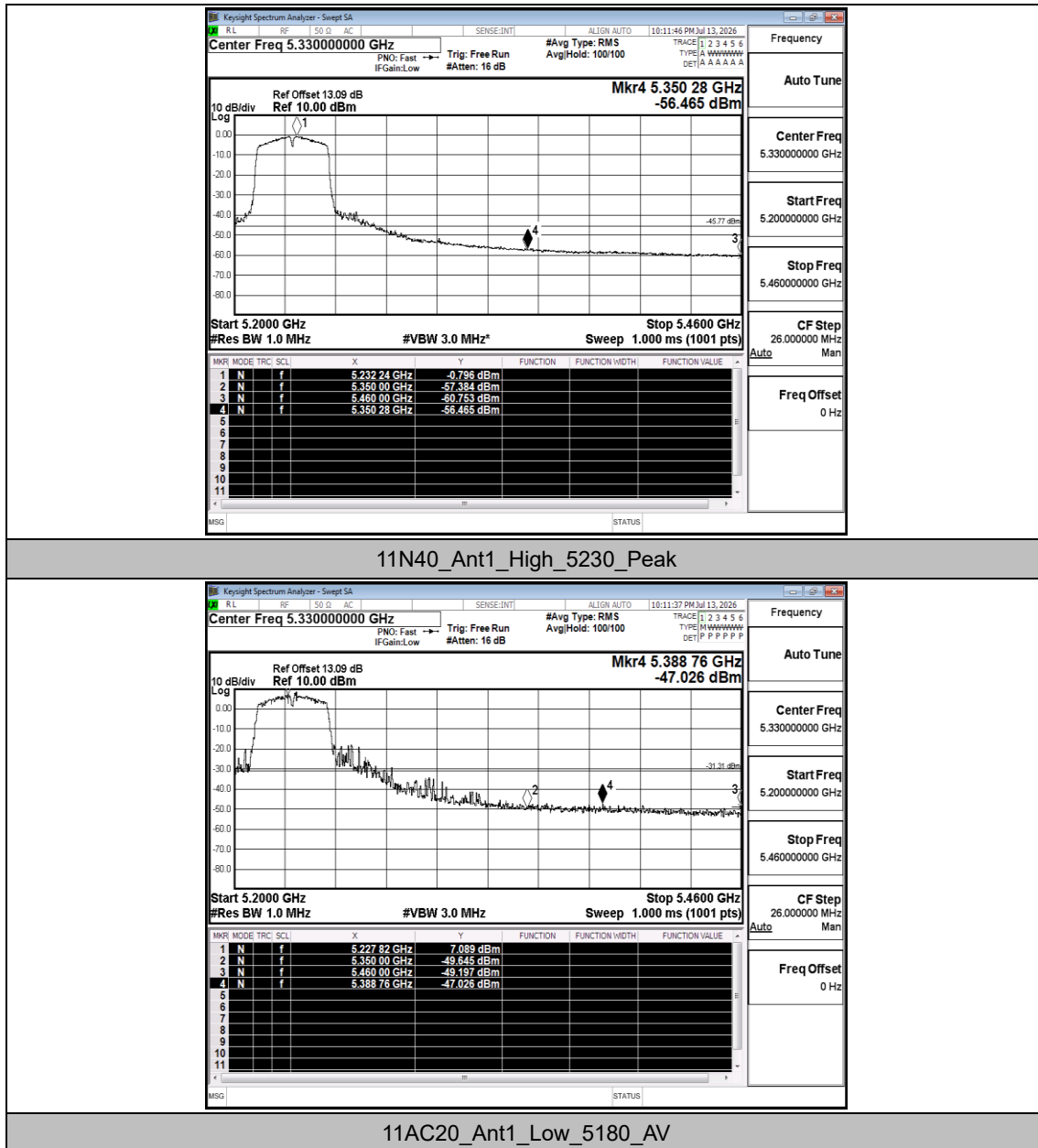


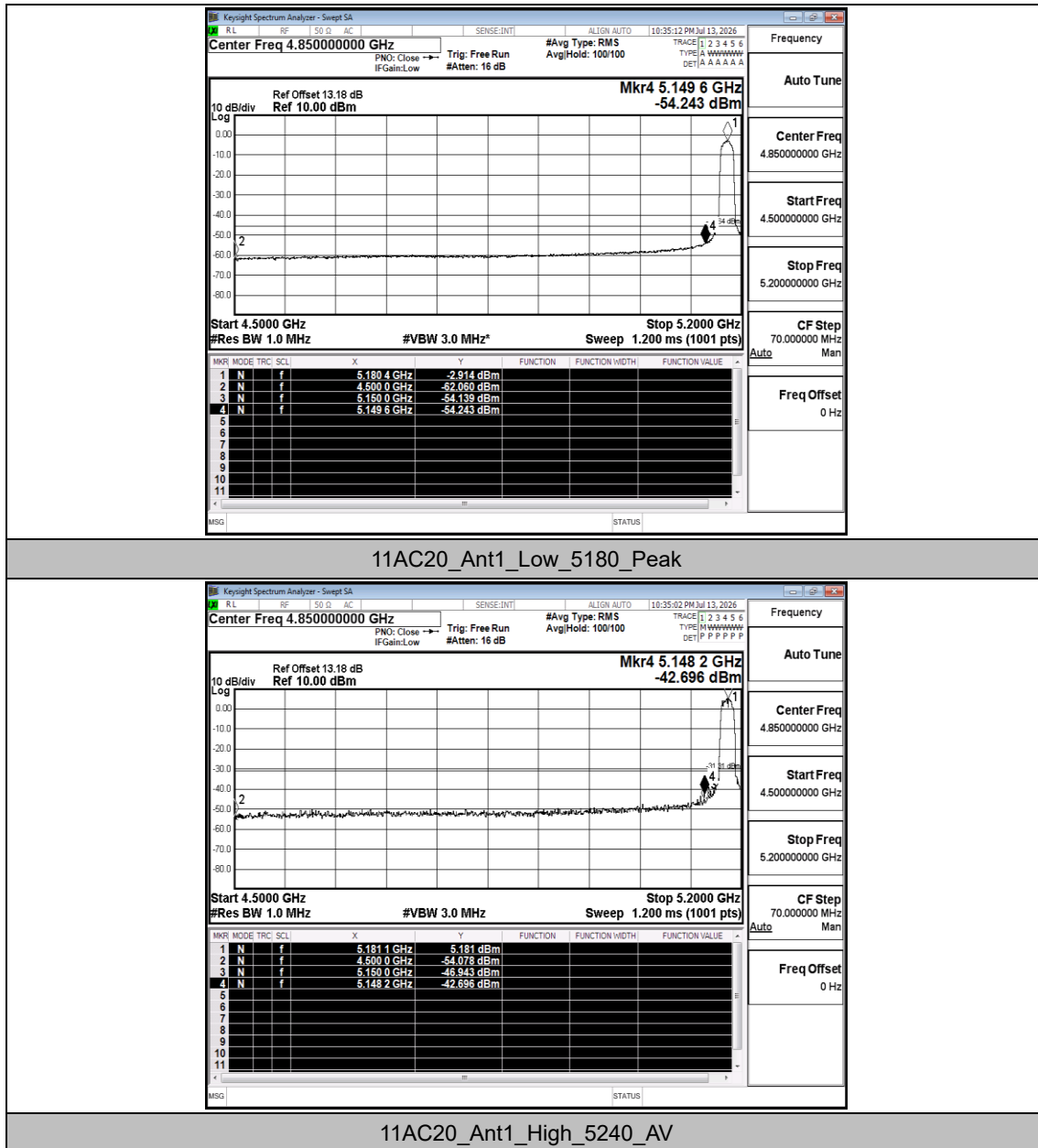
11N20_Ant1_High_5240_Peak

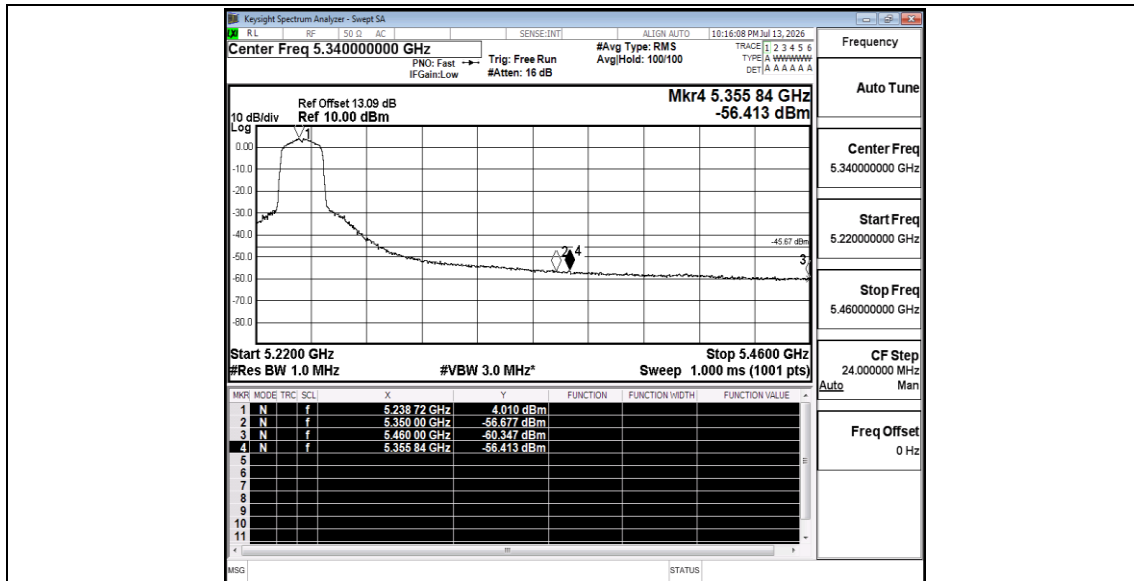


11N40_Ant1_Low_5190_AV

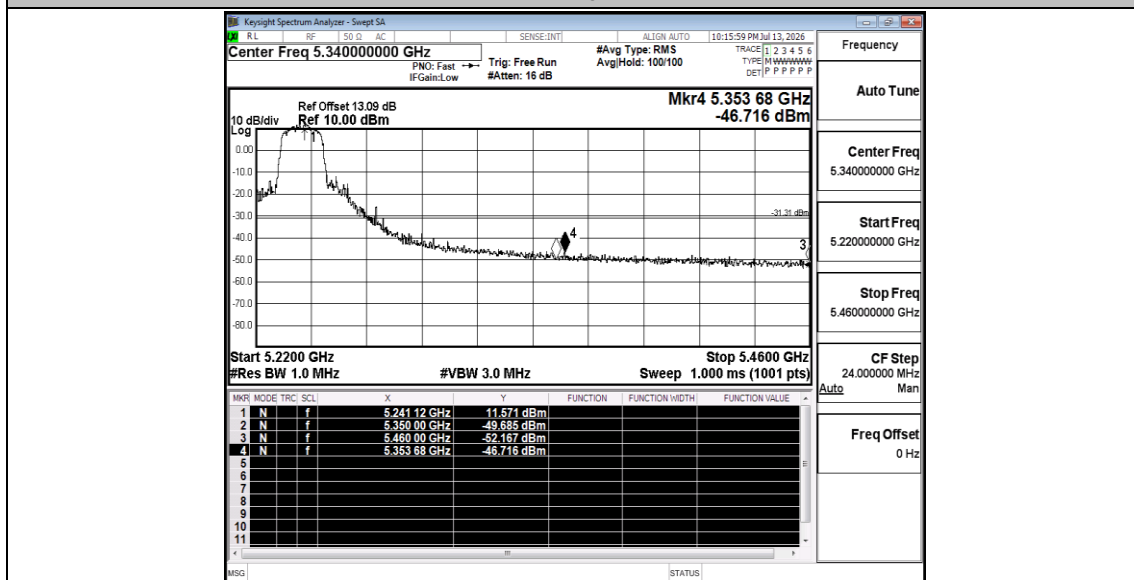








11AC20_Ant1_High_5240_Peak



11AC40_Ant1_Low_5190_AV