

Appendix C

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: Aroma Diffuser

Test Model: ECOSCENT V.2 ULTRA

Environmental Conditions

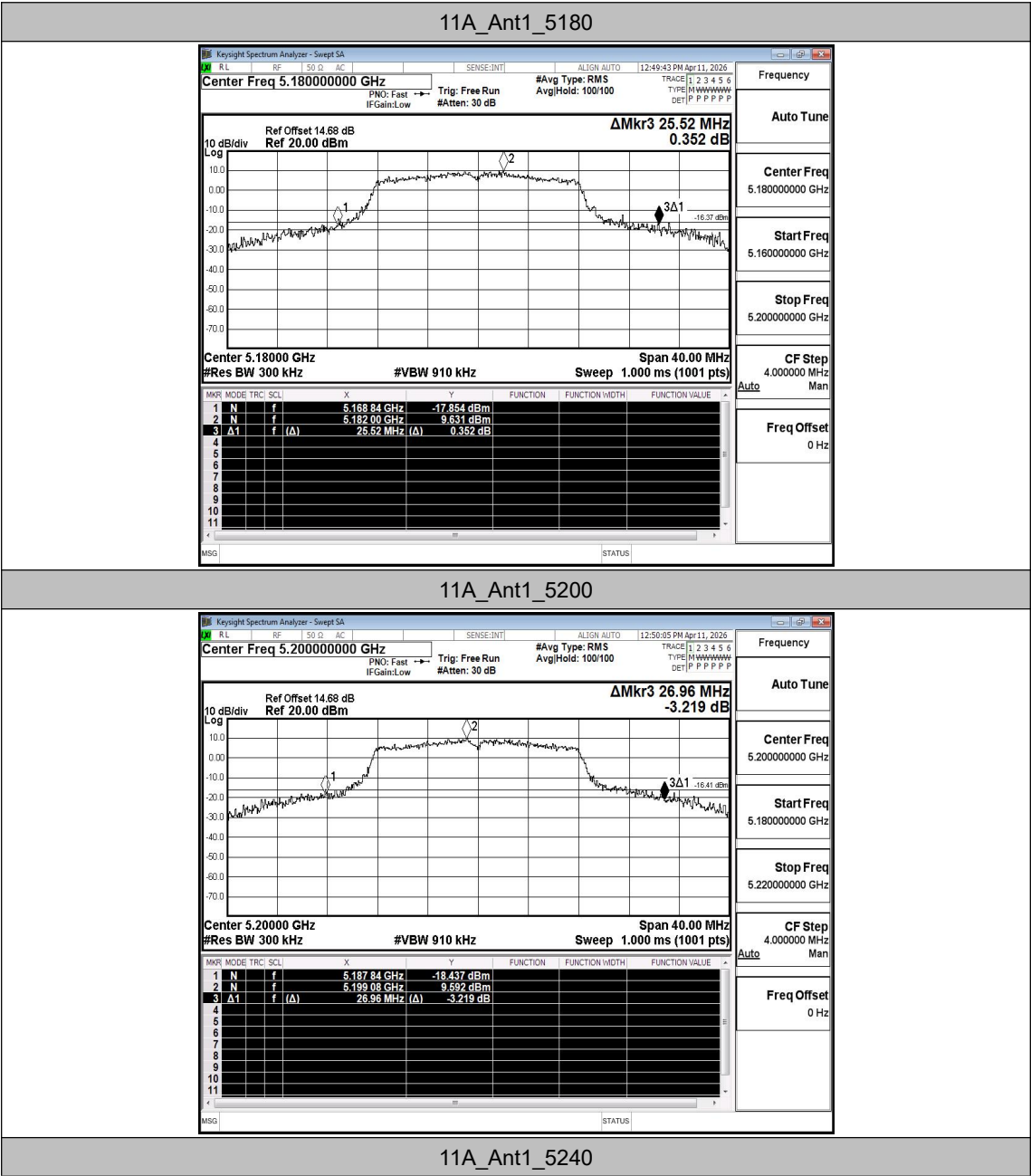
Temperature:	24.6°C
Relative Humidity:	54.5%
ATM Pressure:	100.0 kPa
Test Engineer:	zhao xing hai
Supervised by:	Fengliu Tang

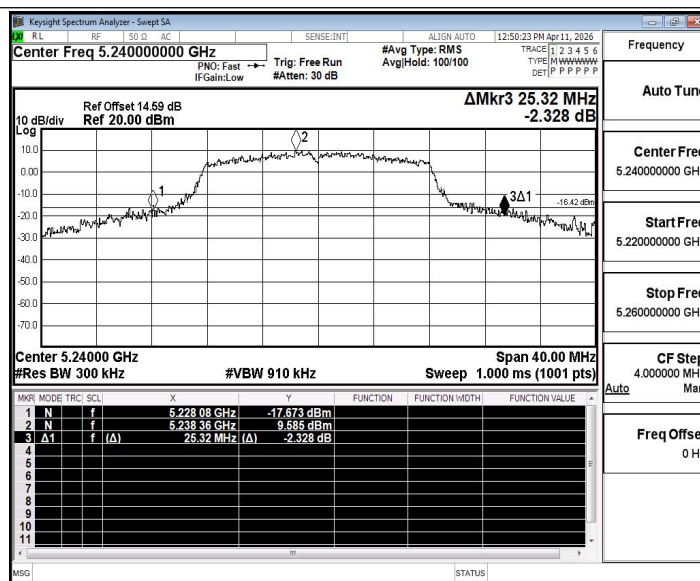
C.1 Emission Bandwidth

Test Result

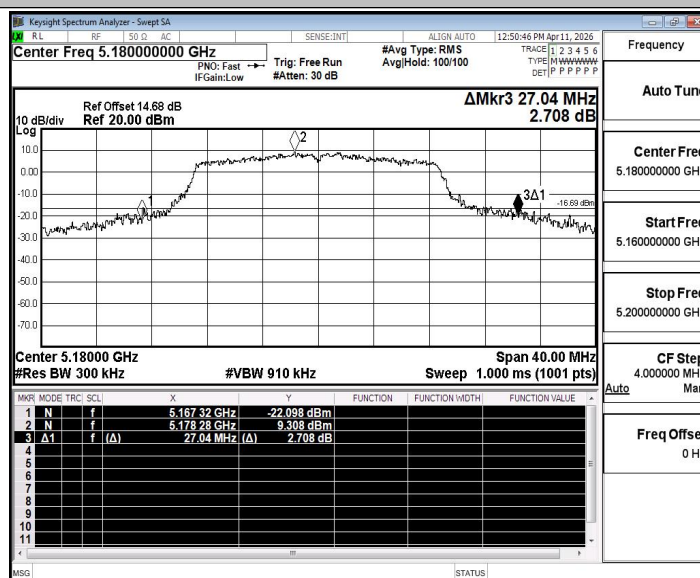
TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	25.520	5168.840	5194.360	---	---
		5200	26.960	5187.840	5214.800	---	---
		5240	25.320	5228.080	5253.400	---	---
11N20SISO	Ant1	5180	27.040	5167.320	5194.360	---	---
		5200	29.000	5186.400	5215.400	---	---
		5240	26.160	5227.480	5253.640	---	---
11N40SISO	Ant1	5190	51.760	5166.960	5218.720	---	---
		5230	54.800	5202.560	5257.360	---	---
11AC20SISO	Ant1	5180	24.120	5169.080	5193.200	---	---
		5200	24.440	5188.480	5212.920	---	---
		5240	24.680	5229.400	5254.080	---	---
11AX20SISO	Ant1	5180	21.880	5169.520	5191.400	---	---
		5200	21.560	5189.440	5211.000	---	---
		5240	21.960	5229.080	5251.040	---	---

Test Graphs

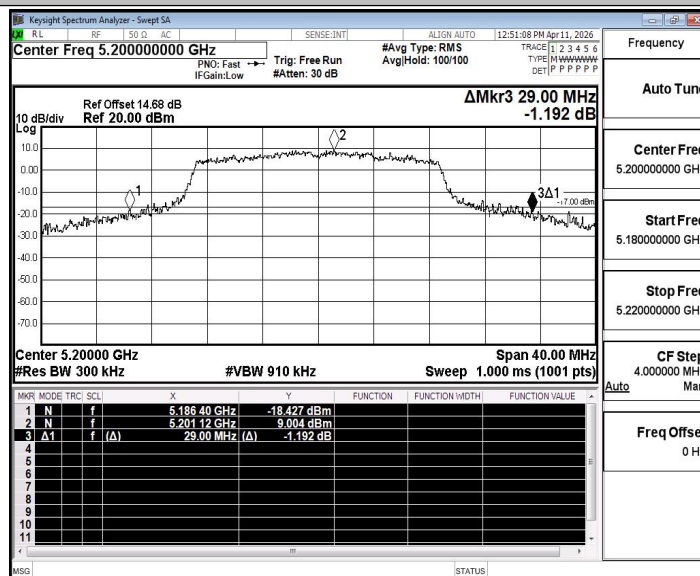




11N20SISO_Ant1_5180



11N20SISO_Ant1_5200

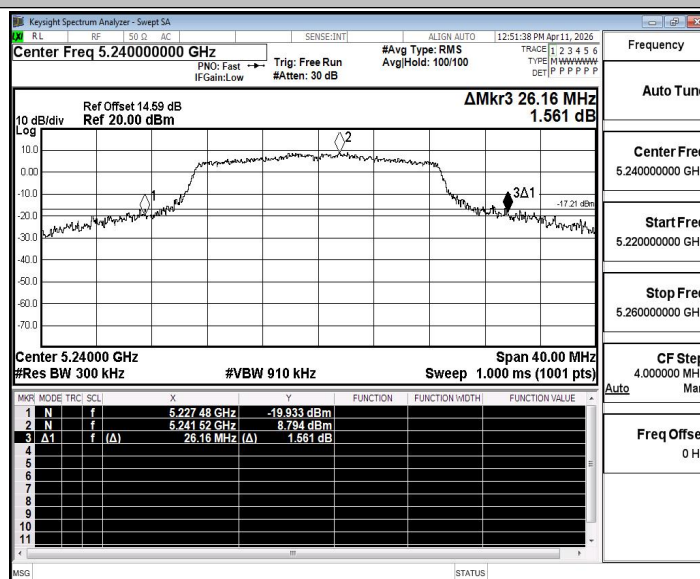


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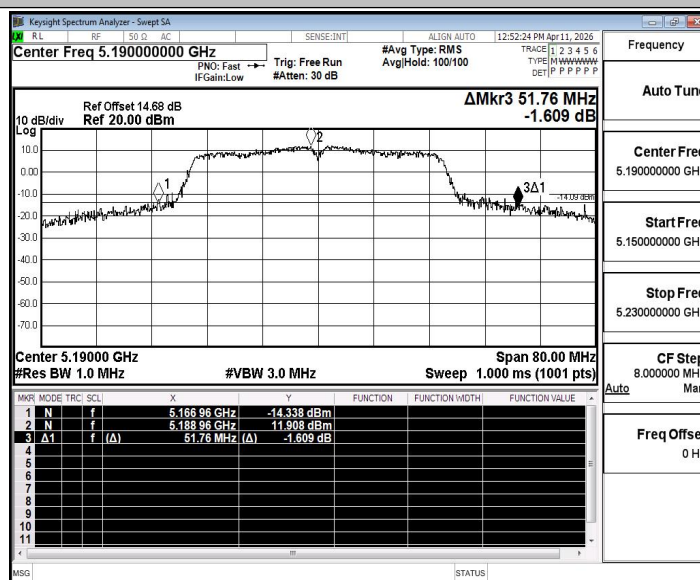
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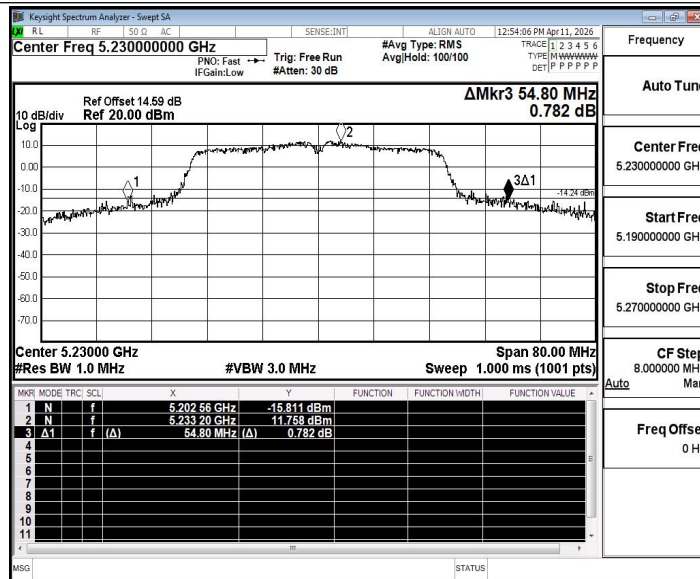
11N20SISO Ant1 5240



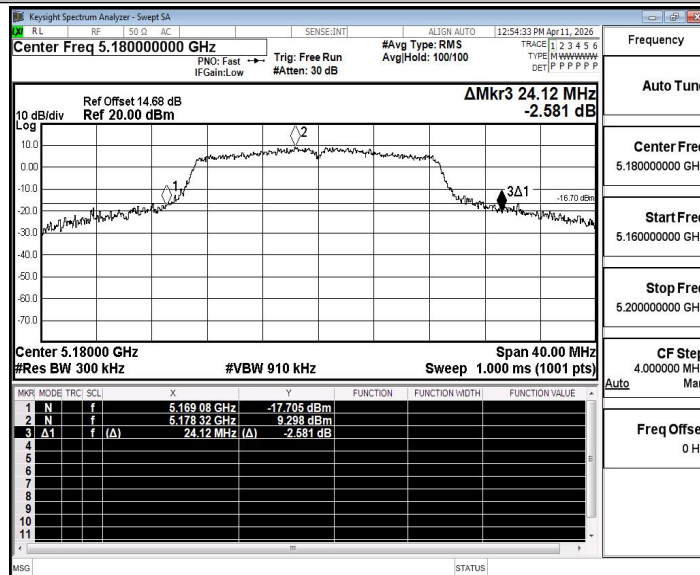
11N40SISO Ant1 5190



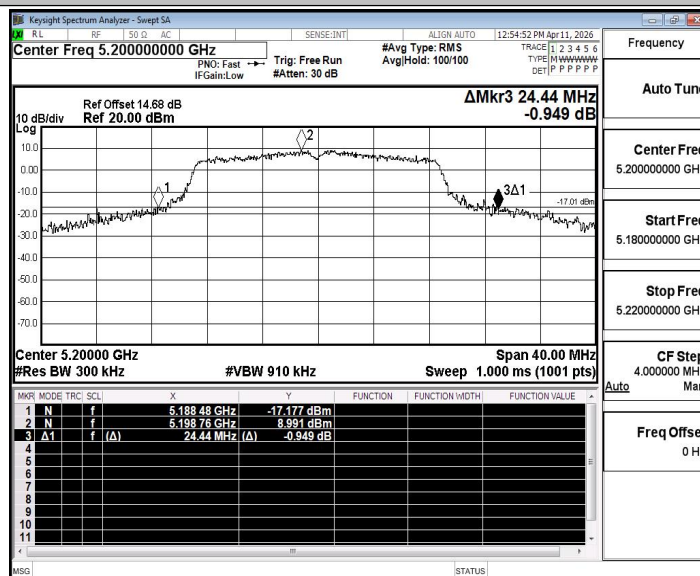
11N40SISO Ant1 5230



11AC20SISO_Ant1_5180



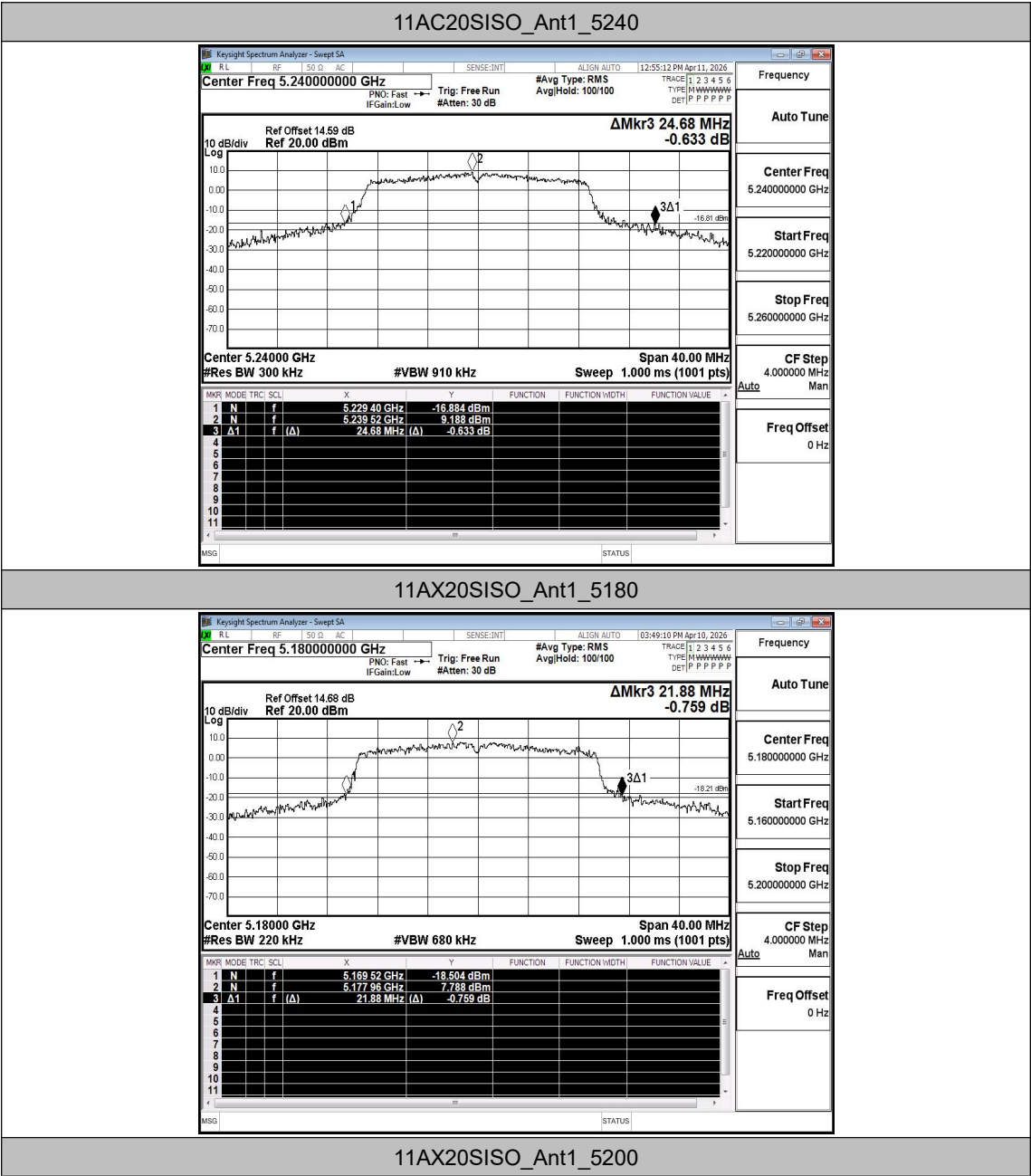
11AC20SISO_Ant1_5200

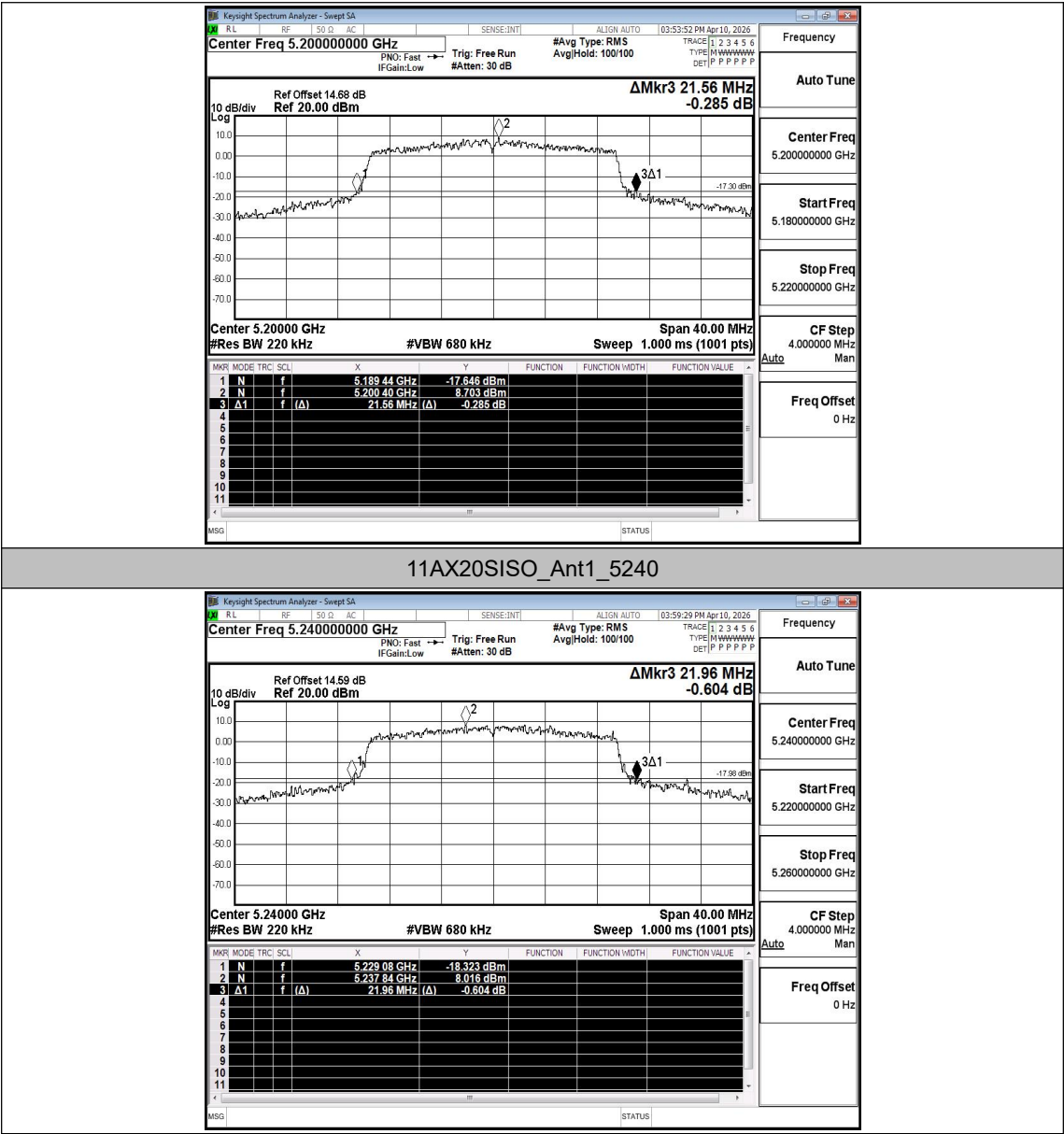


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C.2 Maximum conducted output power

Test Result

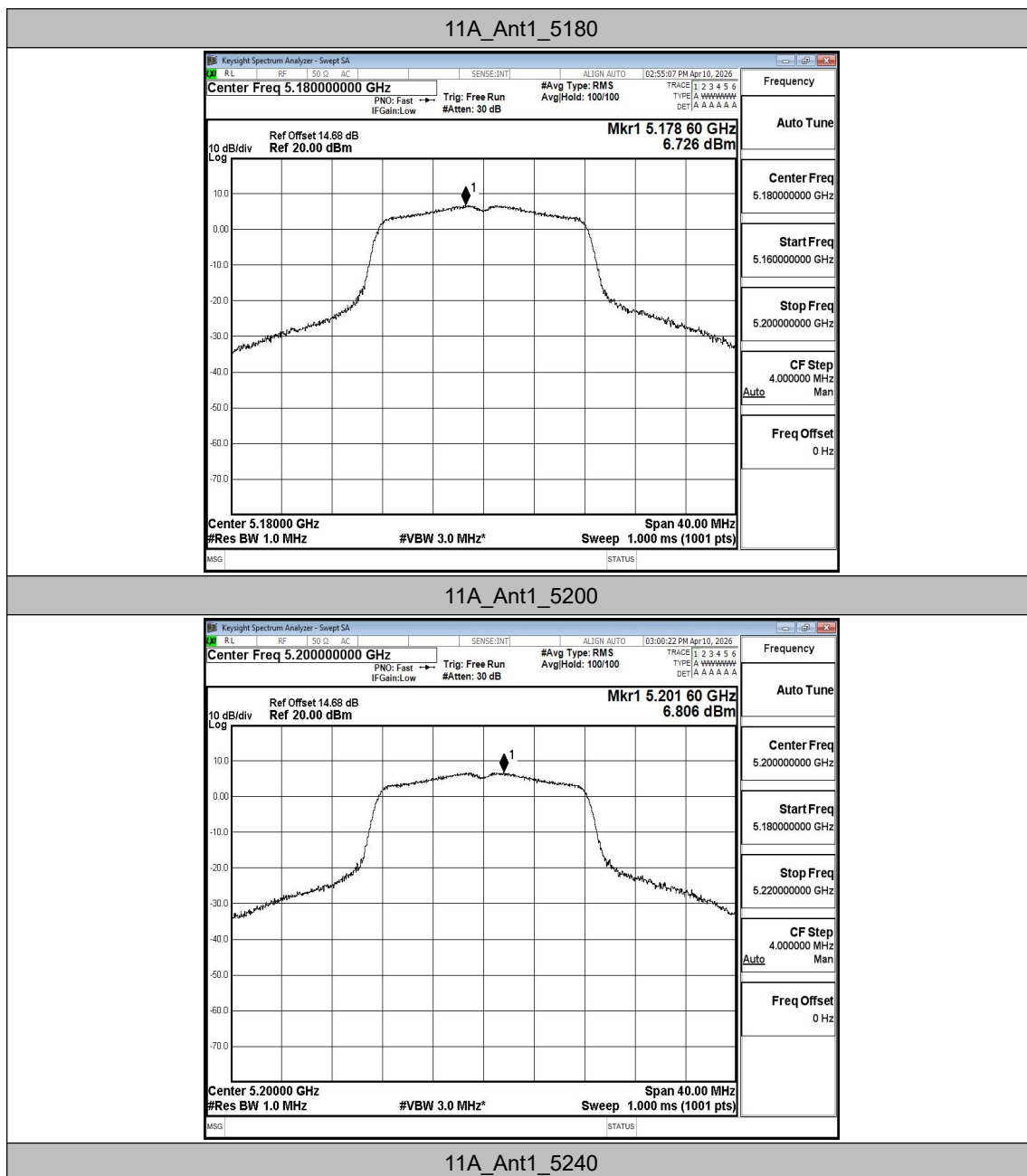
Test Mode	Antenna	Freq(MHz)	Measured Power [dBm]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	17.74	0.02	17.76	≤24.00	PASS
		5200	17.76	0.02	17.78	≤24.00	PASS
		5240	17.66	0.02	17.68	≤24.00	PASS
11N20SISO	Ant1	5180	17.77	0.03	17.80	≤24.00	PASS
		5200	17.77	0.03	17.81	≤24.00	PASS
		5240	17.70	0.03	17.73	≤24.00	PASS
11N40SISO	Ant1	5190	17.02	0.03	17.05	≤24.00	PASS
		5230	17.06	0.05	17.11	≤24.00	PASS
11AC20SISO	Ant1	5180	17.60	0.03	17.63	≤24.00	PASS
		5200	17.75	0.02	17.77	≤24.00	PASS
		5240	17.18	0.02	17.20	≤24.00	PASS
11AX20SISO	Ant1	5180	17.13	0.02	17.15	≤24.00	PASS
		5200	17.70	0.02	17.72	≤24.00	PASS
		5240	17.31	0.02	17.33	≤24.00	PASS

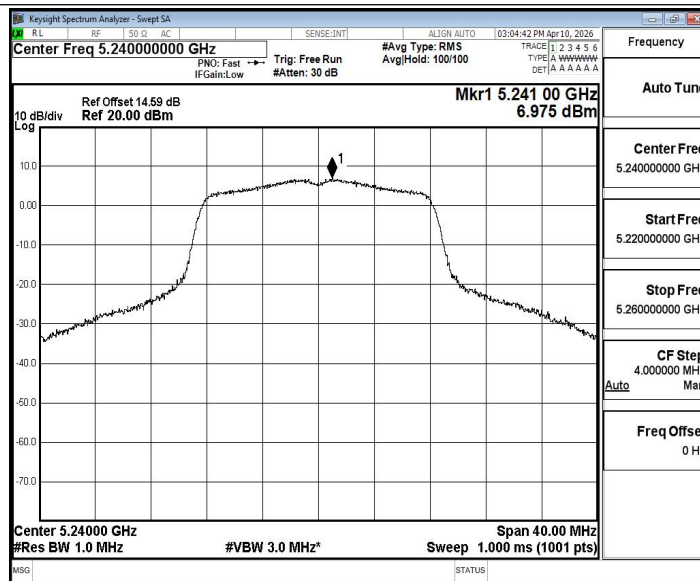
C.3 Maximum power spectral density

Test Result

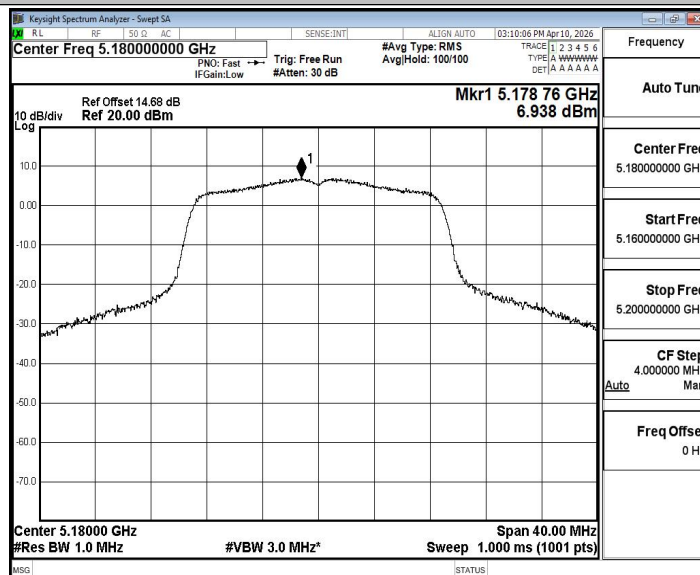
TestMode	Antenna	Freq (MHz)	Raw Data [dBm/MHz]	DC Factor	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	6.73	0.02	6.75	≤11.00	PASS
		5200	6.81	0.02	6.83	≤11.00	PASS
		5240	6.98	0.02	7.00	≤11.00	PASS
11N20SISO	Ant1	5180	6.94	0.03	6.97	≤11.00	PASS
		5200	6.87	0.03	6.90	≤11.00	PASS
		5240	6.75	0.03	6.78	≤11.00	PASS
11N40SISO	Ant1	5190	3.49	0.03	3.52	≤11.00	PASS
		5230	3.53	0.05	3.58	≤11.00	PASS
11AC20SISO	Ant1	5180	6.82	0.03	6.85	≤11.00	PASS
		5200	6.73	0.02	6.75	≤11.00	PASS
		5240	6.74	0.02	6.76	≤11.00	PASS
11AX20SISO	Ant1	5180	6.81	0.02	6.83	≤11.00	PASS
		5200	6.5	0.02	6.52	≤11.00	PASS
		5240	6.71	0.02	6.73	≤11.00	PASS

Test Graphs

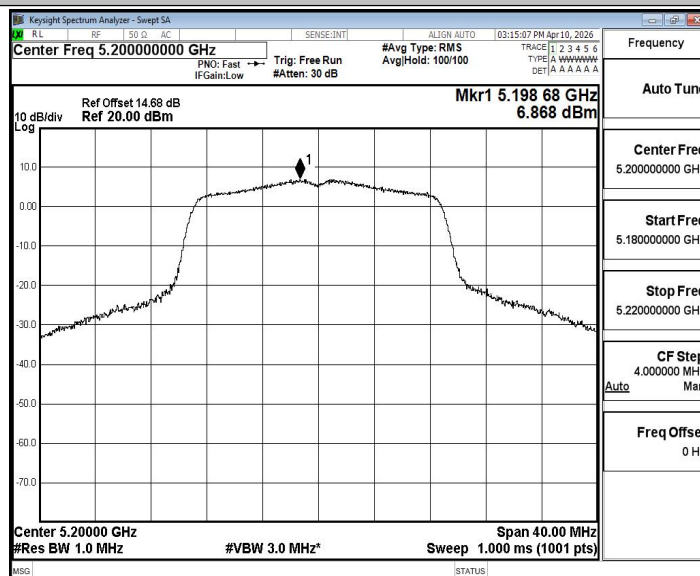




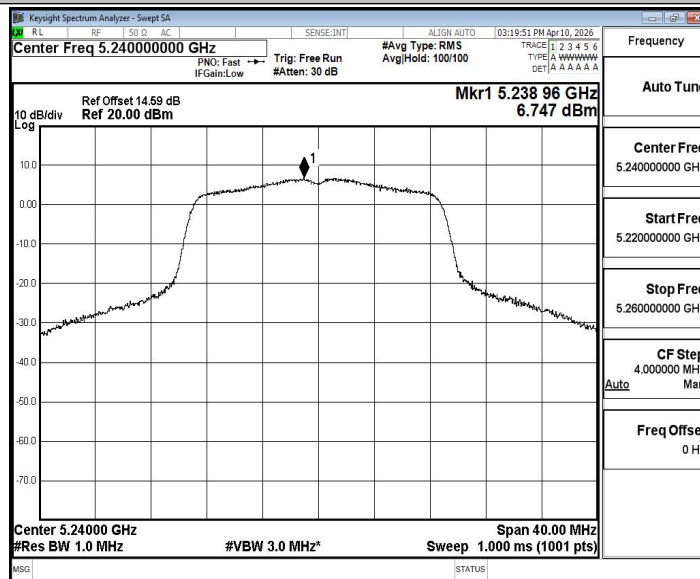
11N20SISO_Ant1_5180



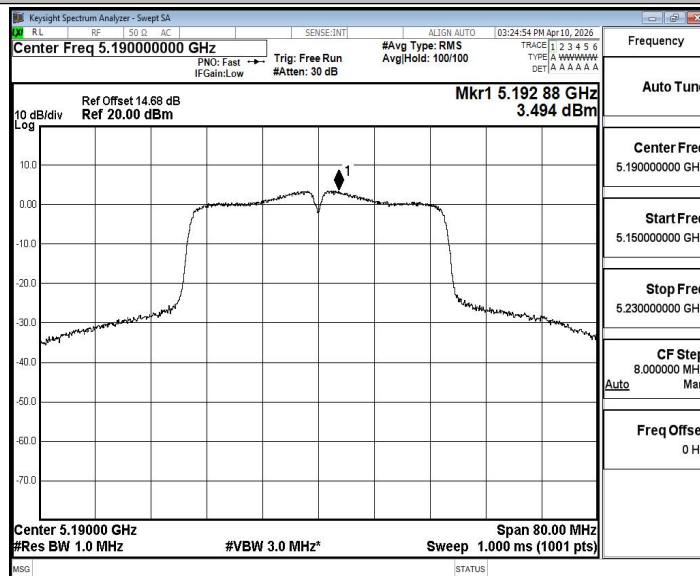
11N20SISO_Ant1_5200



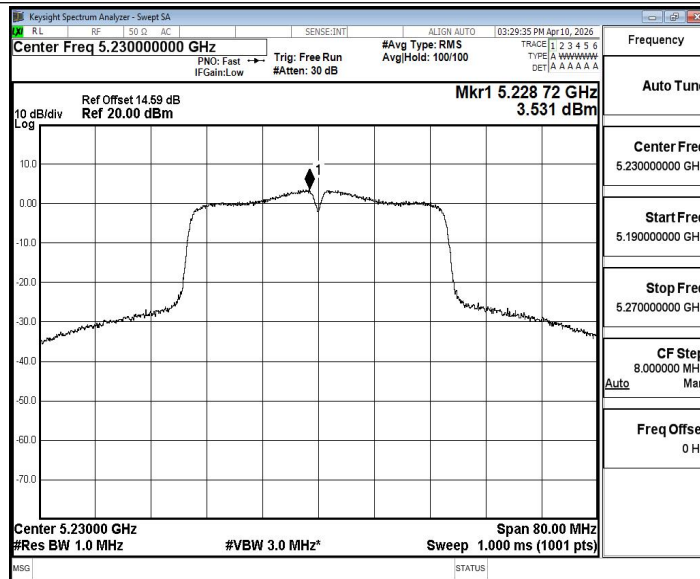
11N20SISO_Ant1_5240



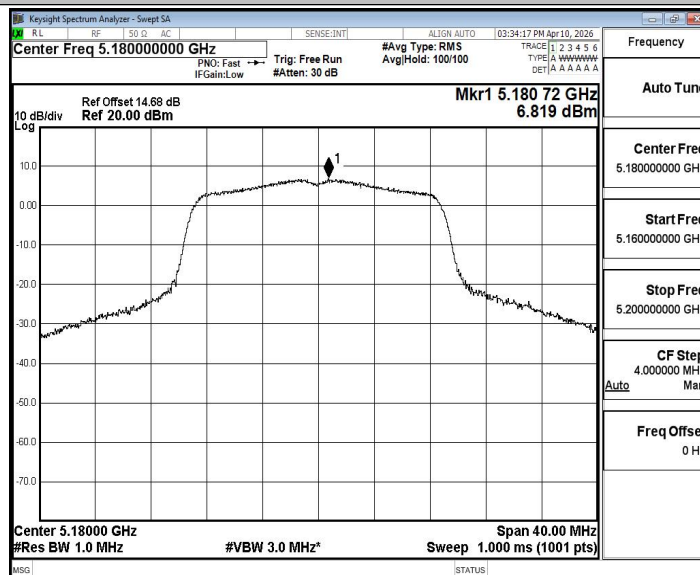
11N40SISO_Ant1_5190



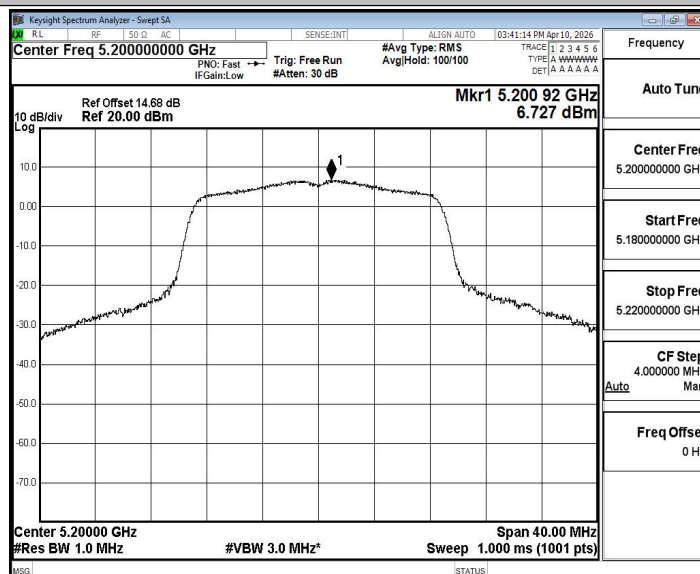
11N40SISO_Ant1_5230



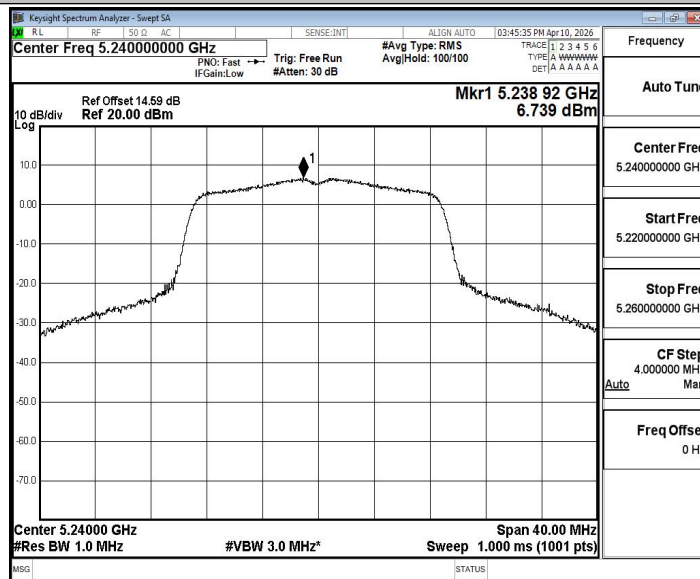
11AC20SISO_Ant1_5180



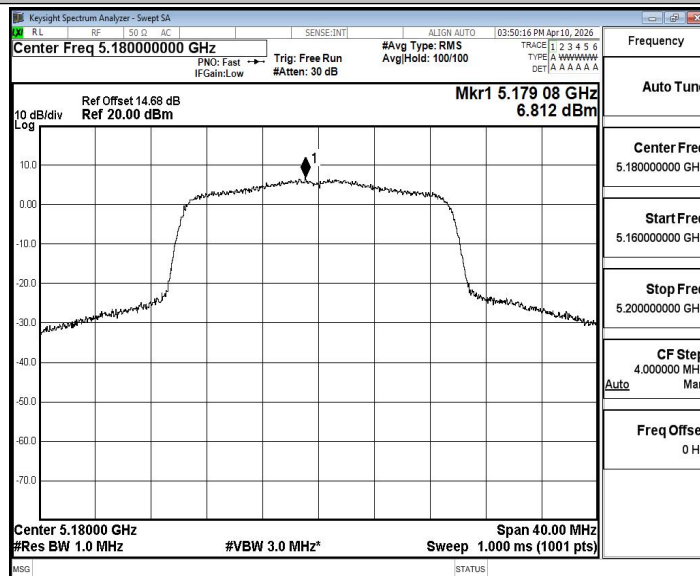
11AC20SISO_Ant1_5200



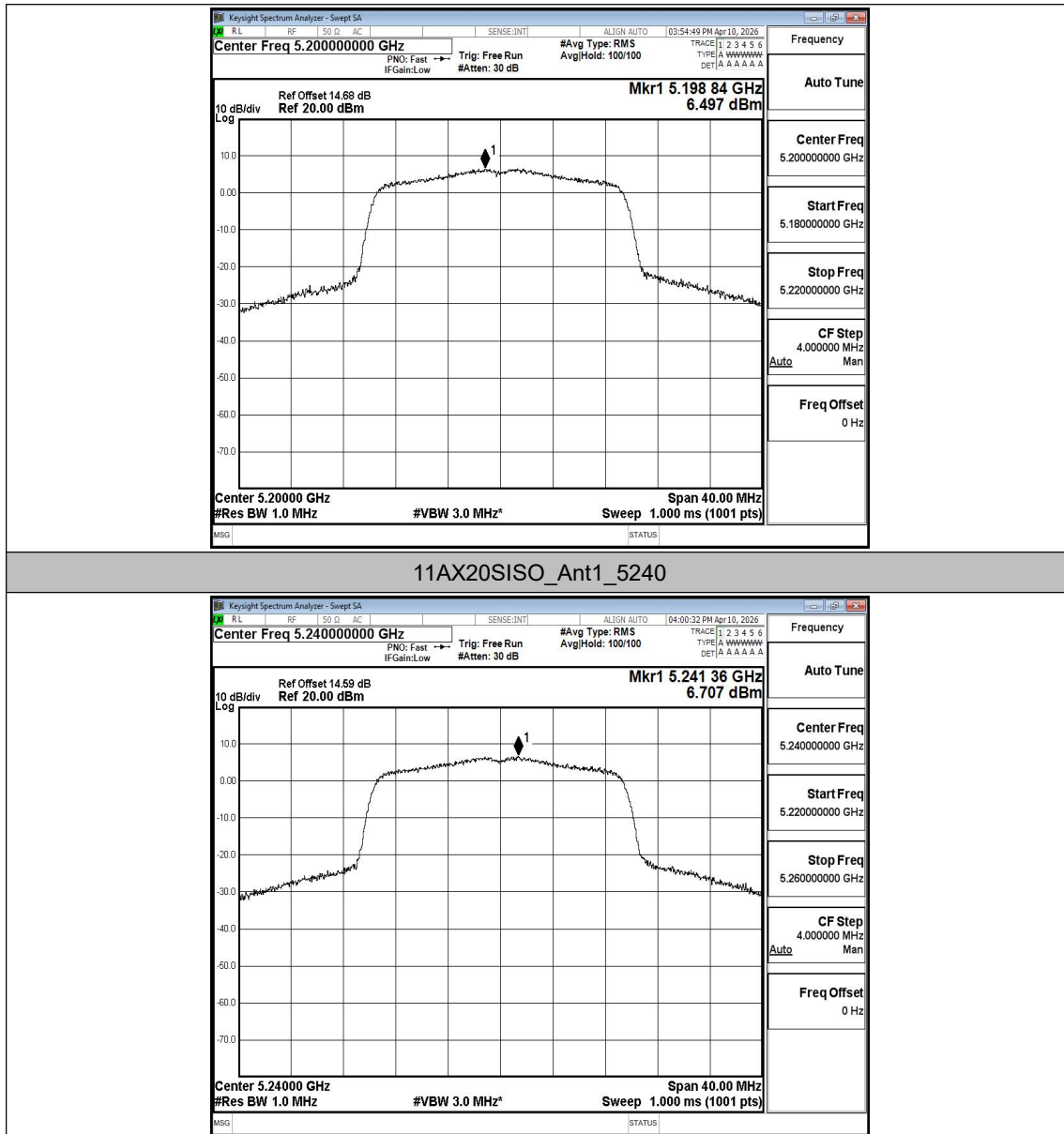
11AC20SISO_Ant1_5240



11AX20SISO_Ant1_5180



11AX20SISO_Ant1_5200



C.4 Emissions in Restricted Bands

Test Result

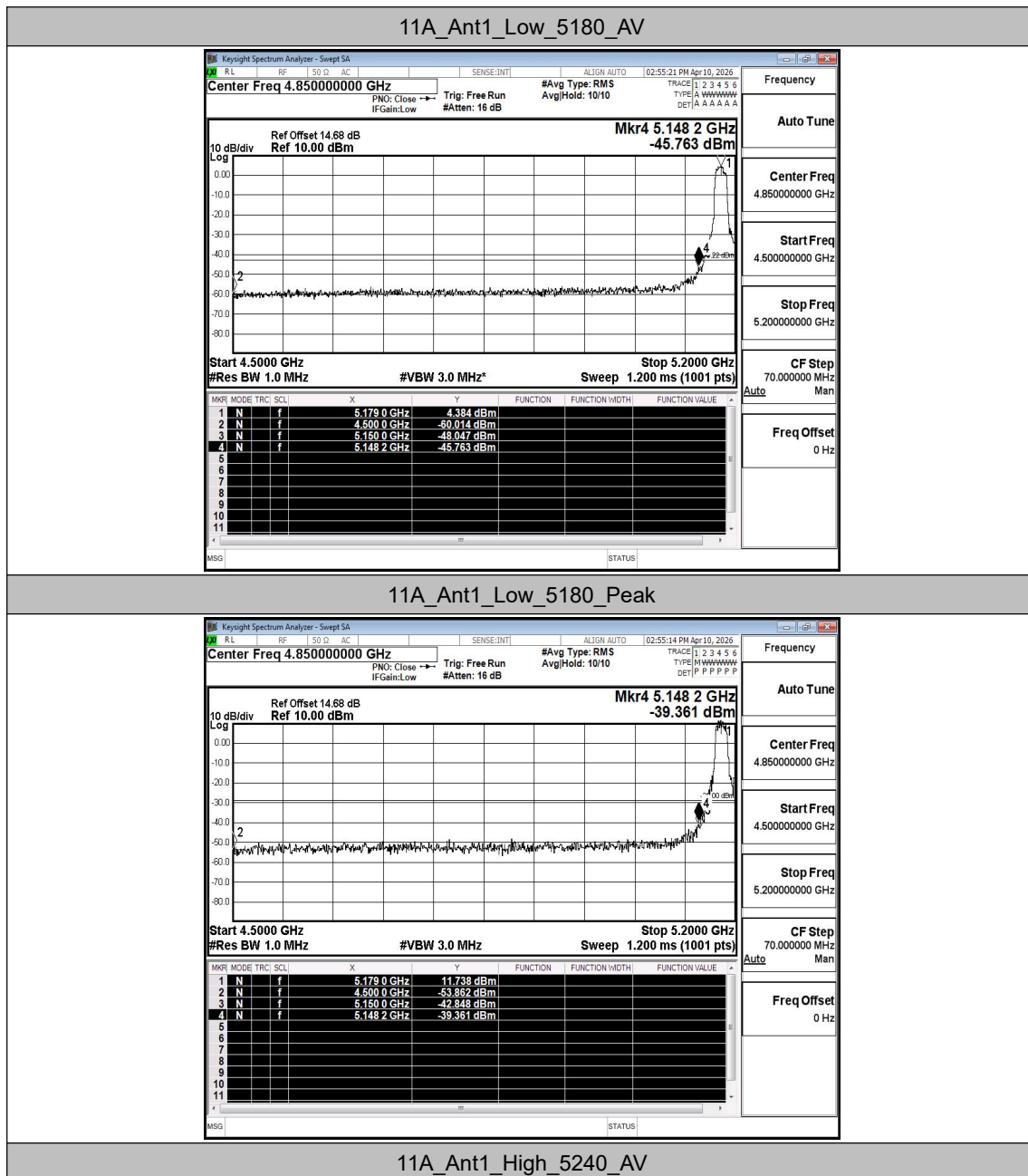
TestMode	Antenna	ChName	Freq (MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Gain [dBi]	DC Factor [dB]	Result [dBUV/m]	Limit [dBUV/m]	Verdict
11A	Ant1	Low	5180	AV	4500.000	-60.01	≤-43.22	2.00	0.02	37.21	≤54	PASS
				AV	5148.200	-45.76	≤-43.22	2.00	0.02	51.46	≤54	PASS
				AV	5150.000	-48.05	≤-43.22	2.00	0.02	49.17	≤54	PASS
				Peak	4500.000	-53.86	≤-29.00	2.00	0.00	43.34	≤68.2	PASS
				Peak	5148.200	-39.36	≤-29.00	2.00	0.00	57.84	≤68.2	PASS
				Peak	5150.000	-42.85	≤-29.00	2.00	0.00	54.35	≤68.2	PASS
		High	5240	AV	5350.000	-57.61	≤-43.22	2.00	0.02	39.61	≤54	PASS
				AV	5387.040	-56.72	≤-43.22	2.00	0.02	40.50	≤54	PASS
				AV	5460.000	-59.23	≤-43.22	2.00	0.02	37.99	≤54	PASS
				Peak	5350.000	-54.14	≤-29.00	2.00	0.00	43.06	≤68.2	PASS
				Peak	5370.960	-48.69	≤-29.00	2.00	0.00	48.51	≤68.2	PASS
				Peak	5460.000	-54.98	≤-29.00	2.00	0.00	42.22	≤68.2	PASS
11N20SISO	Ant1	Low	5180	AV	4500.000	-60.7	≤-43.23	2.00	0.03	36.53	≤54	PASS
				AV	5147.500	-46.62	≤-43.23	2.00	0.03	50.61	≤54	PASS
				AV	5150.000	-47.83	≤-43.23	2.00	0.03	49.40	≤54	PASS
				Peak	4500.000	-52.75	≤-29.00	2.00	0.00	44.45	≤68.2	PASS
				Peak	5149.600	-37.03	≤-29.00	2.00	0.00	60.17	≤68.2	PASS
				Peak	5150.000	-35.7	≤-29.00	2.00	0.00	61.50	≤68.2	PASS
		High	5240	AV	5350.000	-57.87	≤-43.23	2.00	0.03	39.36	≤54	PASS
				AV	5380.080	-56.34	≤-43.23	2.00	0.03	40.89	≤54	PASS
				AV	5460.000	-60.38	≤-43.23	2.00	0.03	36.85	≤54	PASS
				Peak	5350.000	-54.73	≤-29.00	2.00	0.00	42.47	≤68.2	PASS
				Peak	5357.280	-48.52	≤-29.00	2.00	0.00	48.68	≤68.2	PASS
				Peak	5460.000	-54.52	≤-29.00	2.00	0.00	42.68	≤68.2	PASS
11N40SISO	Ant1	Low	5190	AV	4500.000	-62.28	≤-43.23	2.00	0.03	34.95	≤54	PASS
				AV	5148.900	-47.37	≤-43.23	2.00	0.03	49.86	≤54	PASS
				AV	5150.000	-47.28	≤-43.23	2.00	0.03	49.95	≤54	PASS
				Peak	4500.000	-57.15	≤-29.00	2.00	0.00	40.05	≤68.2	PASS
				Peak	5149.600	-38.43	≤-29.00	2.00	0.00	58.77	≤68.2	PASS
				Peak	5150.000	-40.5	≤-29.00	2.00	0.00	56.70	≤68.2	PASS
		High	5230	AV	5350.000	-58.57	≤-43.25	2.00	0.05	38.68	≤54	PASS
				AV	5369.520	-56.42	≤-43.25	2.00	0.05	40.83	≤54	PASS
				AV	5460.000	-60.75	≤-43.25	2.00	0.05	36.50	≤54	PASS
				Peak	5350.000	-52.97	≤-29.00	2.00	0.00	44.23	≤68.2	PASS
				Peak	5427.240	-49.13	≤-29.00	2.00	0.00	48.07	≤68.2	PASS
				Peak	5460.000	-55.52	≤-29.00	2.00	0.00	41.68	≤68.2	PASS

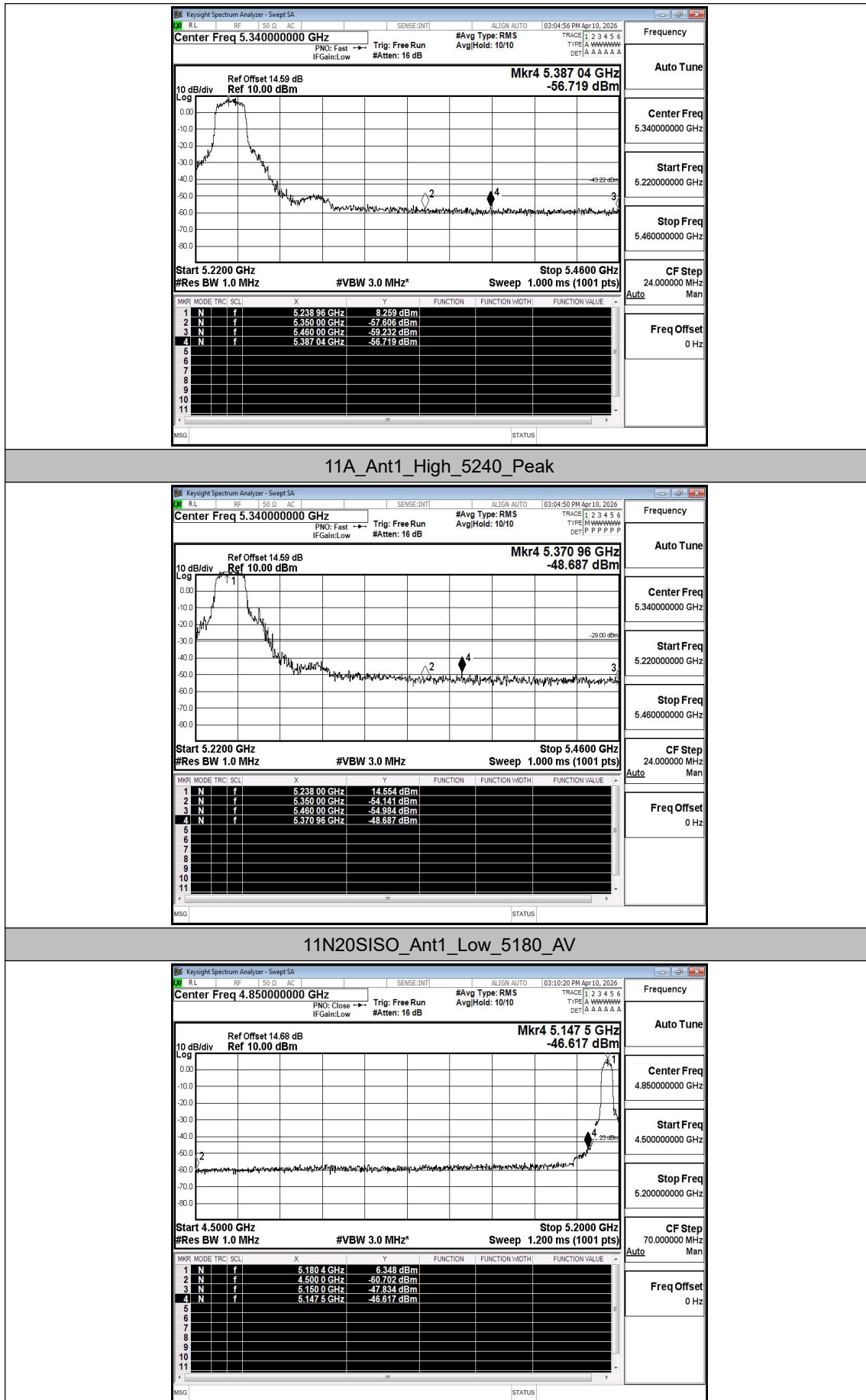
11AC20SISO	Ant1	Low	5180	AV	4500.000	-61.45	≤-43.23	2.00	0.03	35.78	≤54	PASS
				AV	5148.900	-45.4	≤-43.23	2.00	0.03	51.83	≤54	PASS
				AV	5150.000	-45.7	≤-43.23	2.00	0.03	51.53	≤54	PASS
				Peak	4500.000	-52.82	≤-29.00	2.00	0.00	44.38	≤68.2	PASS
				Peak	5148.900	-37.83	≤-29.00	2.00	0.00	59.37	≤68.2	PASS
				Peak	5150.000	-40.95	≤-29.00	2.00	0.00	56.25	≤68.2	PASS
		High	5240	AV	5350.000	-57.98	≤-43.22	2.00	0.02	39.24	≤54	PASS
				AV	5351.280	-56.03	≤-43.22	2.00	0.02	41.19	≤54	PASS
				AV	5460.000	-59.67	≤-43.22	2.00	0.02	37.55	≤54	PASS
				Peak	5350.000	-50.14	≤-29.00	2.00	0.00	47.06	≤68.2	PASS
				Peak	5360.160	-48.36	≤-29.00	2.00	0.00	48.84	≤68.2	PASS
				Peak	5460.000	-54.93	≤-29.00	2.00	0.00	42.27	≤68.2	PASS
11AX20SISO	Ant1	Low	5180	AV	4500.000	-59.08	≤-43.22	2.00	0.02	38.14	≤54	PASS
				AV	5149.600	-44.71	≤-43.22	2.00	0.02	52.51	≤54	PASS
				AV	5150.000	-45.21	≤-43.22	2.00	0.02	52.01	≤54	PASS
				Peak	4500.000	-54.2	≤-29.00	2.00	0.00	43.00	≤68.2	PASS
				Peak	5149.600	-34.77	≤-29.00	2.00	0.00	62.43	≤68.2	PASS
				Peak	5150.000	-37.68	≤-29.00	2.00	0.00	59.52	≤68.2	PASS
		High	5240	AV	5350.000	-58.86	≤-43.22	2.00	0.02	38.36	≤54	PASS
				AV	5401.680	-56.11	≤-43.22	2.00	0.02	41.11	≤54	PASS
				AV	5460.000	-61.59	≤-43.22	2.00	0.02	35.63	≤54	PASS
				Peak	5350.000	-53.27	≤-29.00	2.00	0.00	43.93	≤68.2	PASS
				Peak	5384.400	-49.6	≤-29.00	2.00	0.00	47.60	≤68.2	PASS
				Peak	5460.000	-53.83	≤-29.00	2.00	0.00	43.37	≤68.2	PASS

Note:

1. The Antenna Gain is compensated in the graph.

Test Graphs



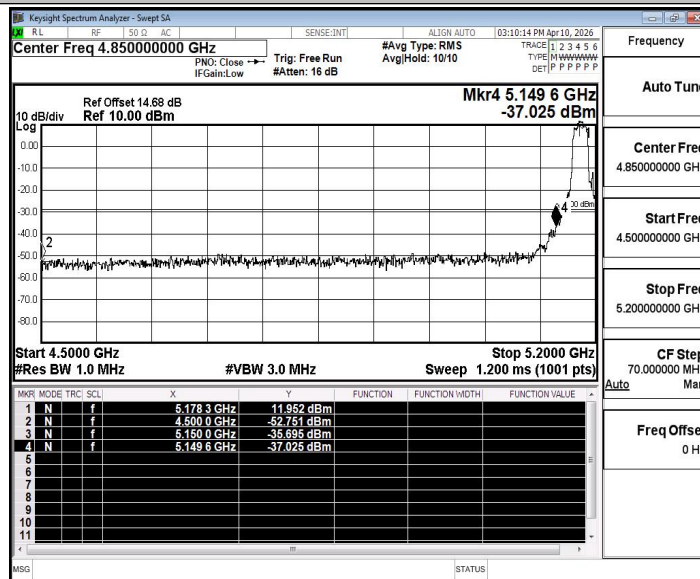


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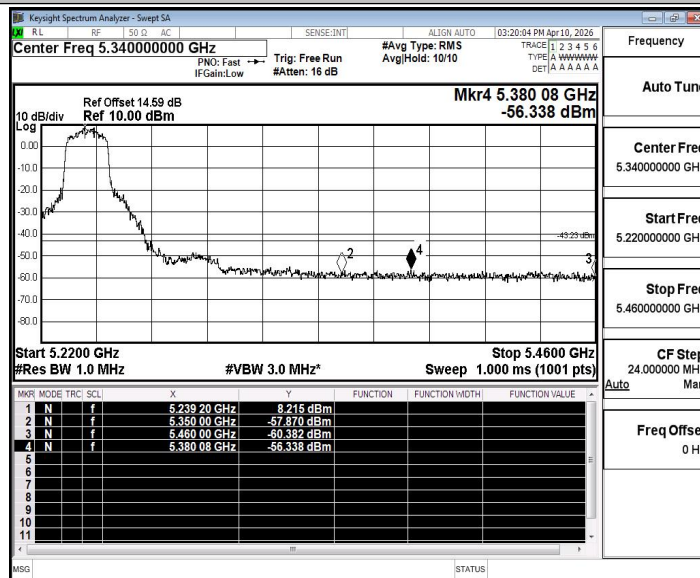
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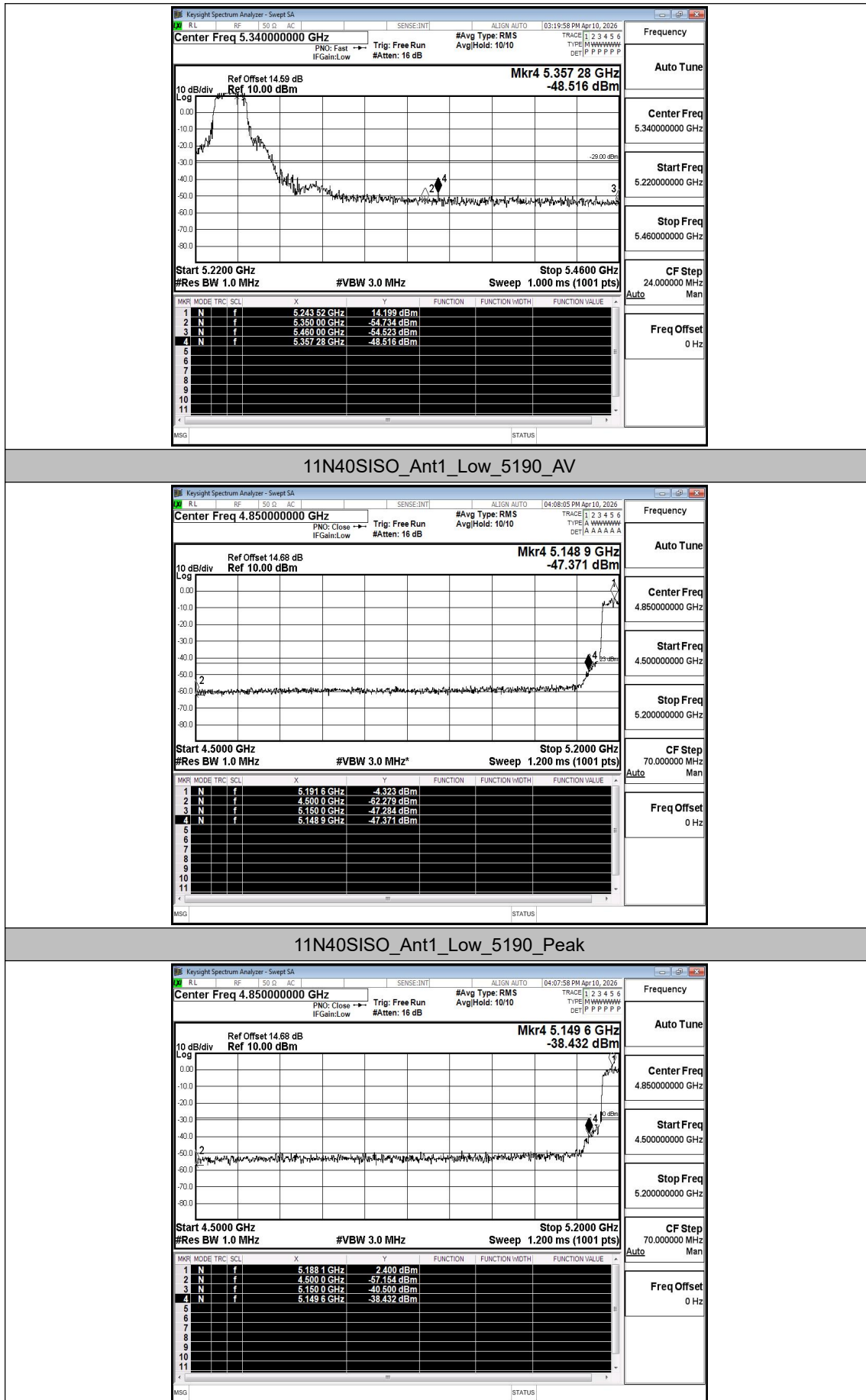
11N20SISO_Ant1_Low_5180_Peak



11N20SISO_Ant1_High_5240_AV



11N20SISO_Ant1_High_5240_Peak



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