

Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: Tablet

Test Model: HPD-AD610

Environmental Conditions

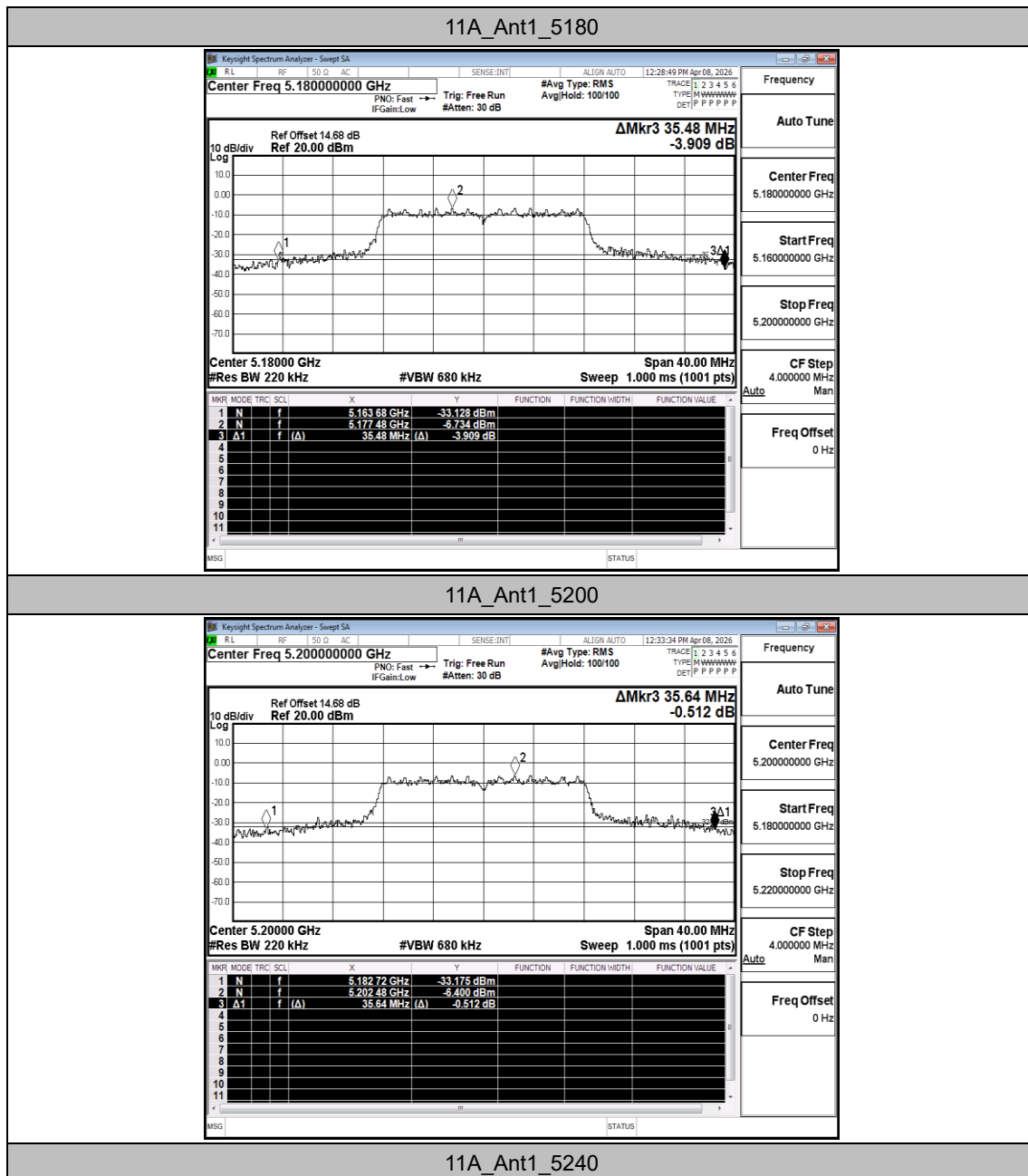
Temperature:	24.7°C
Relative Humidity:	55.2%
ATM Pressure:	100.0 kPa
Test Engineer:	Zhang hai
Supervised by:	Fengliu Tang

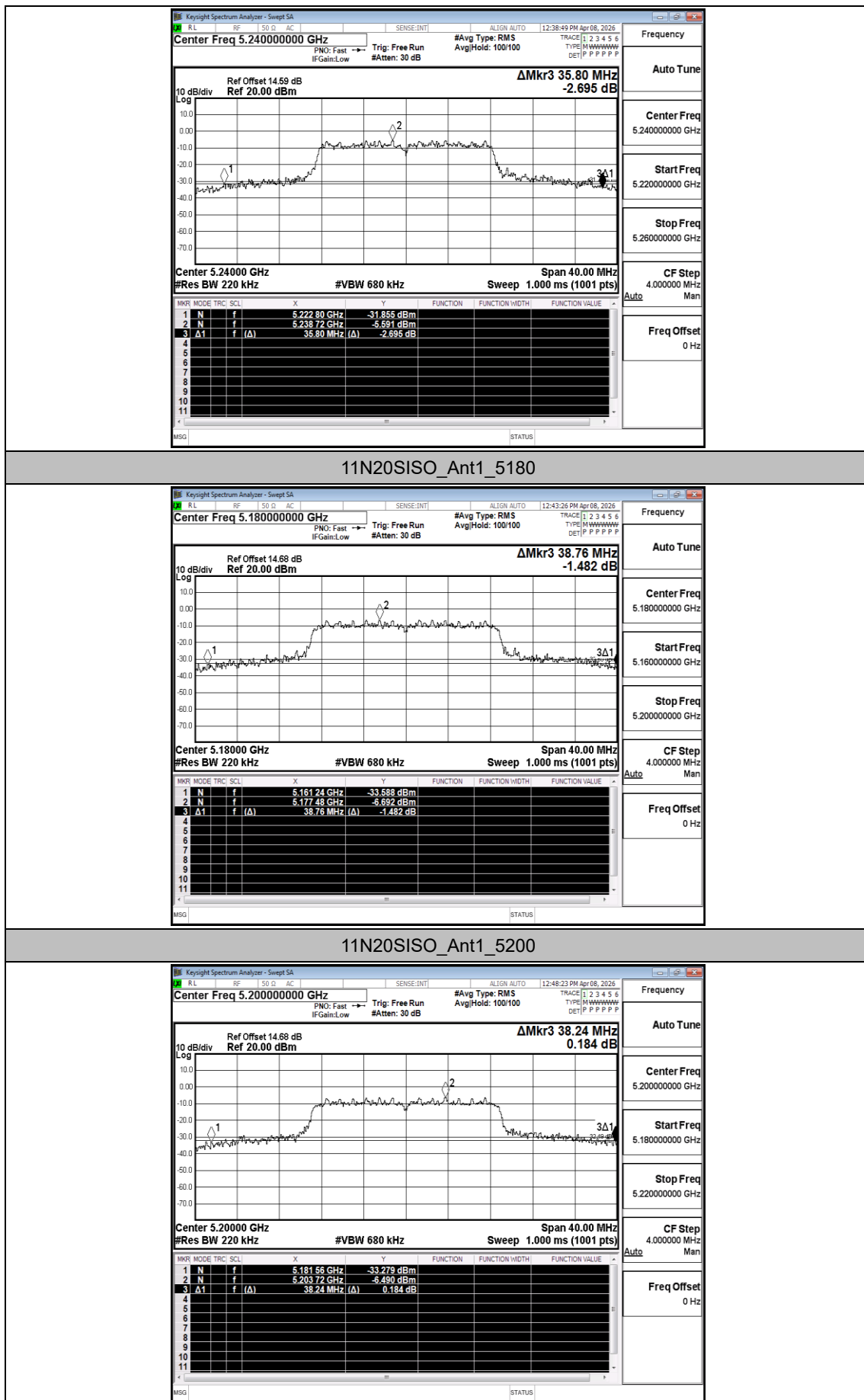
D.1 Emission Bandwidth

Test Result

TestMode	Antenna	Freq (MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit [MHz]	Verdict
11A	Ant1	5180	35.480	5163.680	5199.160	---	---
		5200	35.640	5182.720	5218.360	---	---
		5240	35.800	5222.800	5258.600	---	---
11N20SISO	Ant1	5180	38.760	5161.240	5200.000	---	---
		5200	38.240	5181.560	5219.800	---	---
		5240	39.480	5220.520	5260.000	---	---
11N40SISO	Ant1	5190	78.640	5151.360	5230.000	---	---
		5230	76.640	5193.120	5269.760	---	---
11AC20SISO	Ant1	5180	38.320	5161.120	5199.440	---	---
		5200	38.160	5181.480	5219.640	---	---
		5240	38.120	5221.560	5259.680	---	---
11AC40SISO	Ant1	5190	76.880	5152.400	5229.280	---	---
		5230	74.480	5194.960	5269.440	---	---
11AC80SISO	Ant1	5210	153.120	5136.880	5290.000	---	---

Test Graphs



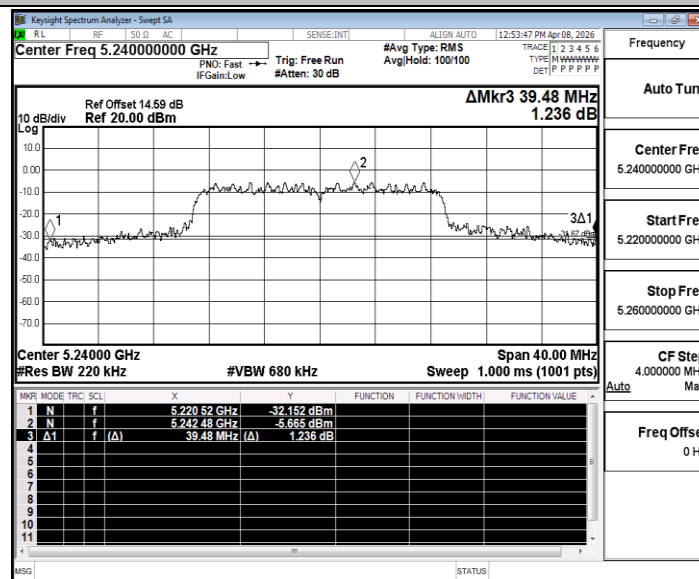


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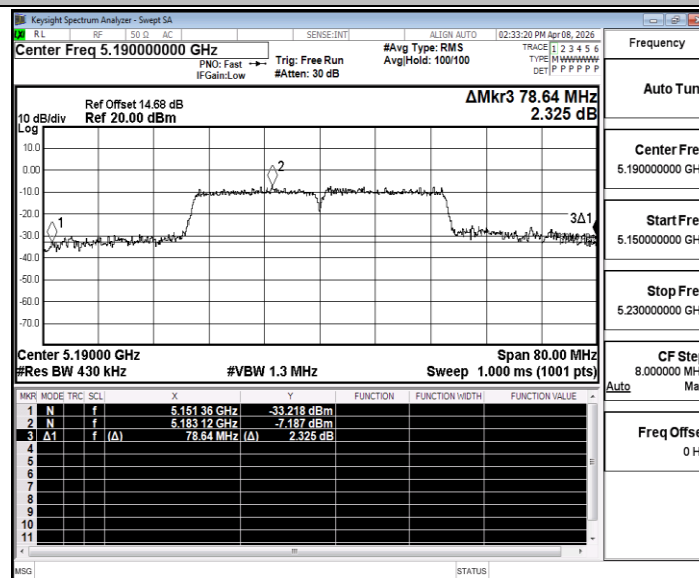
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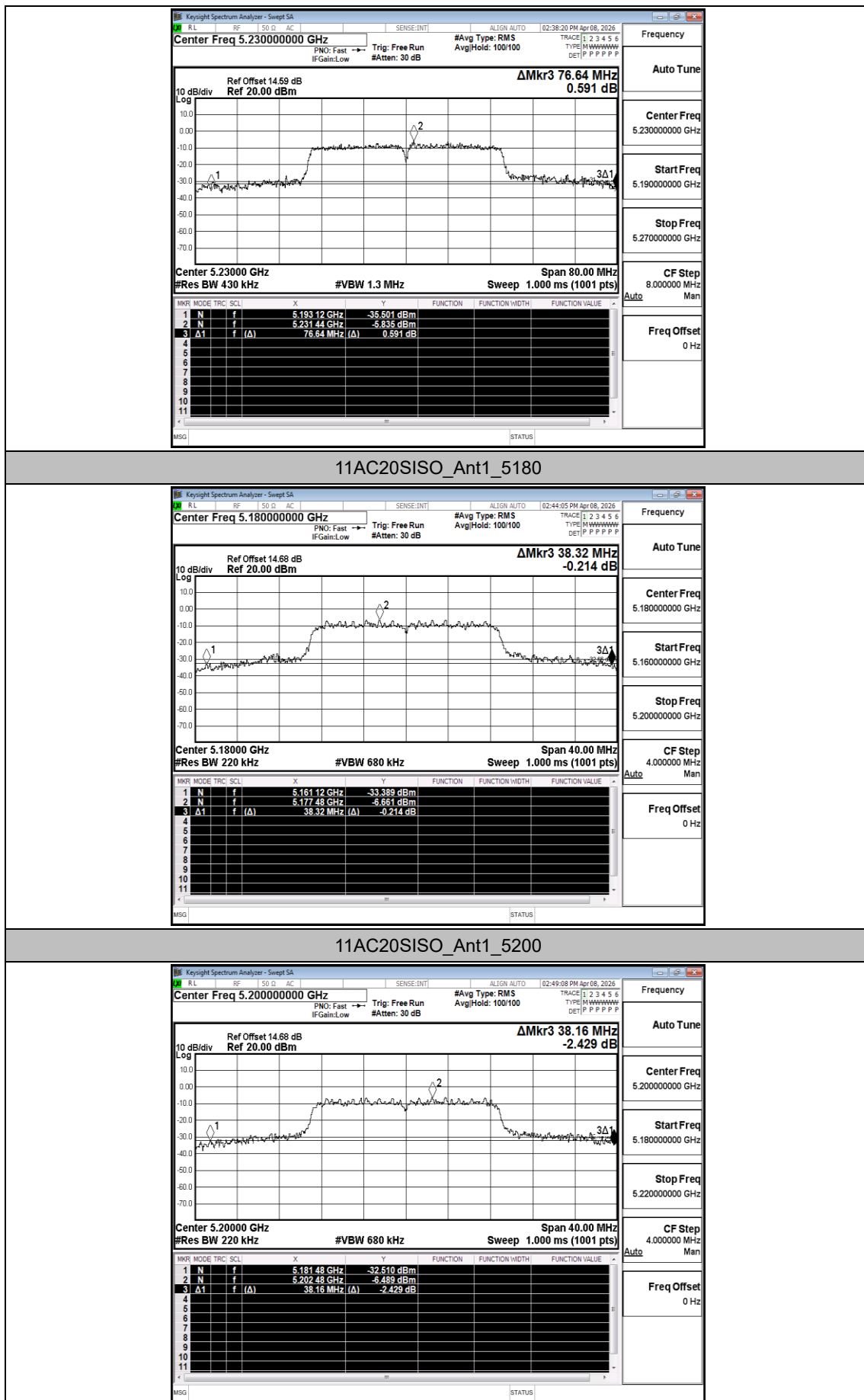
11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230

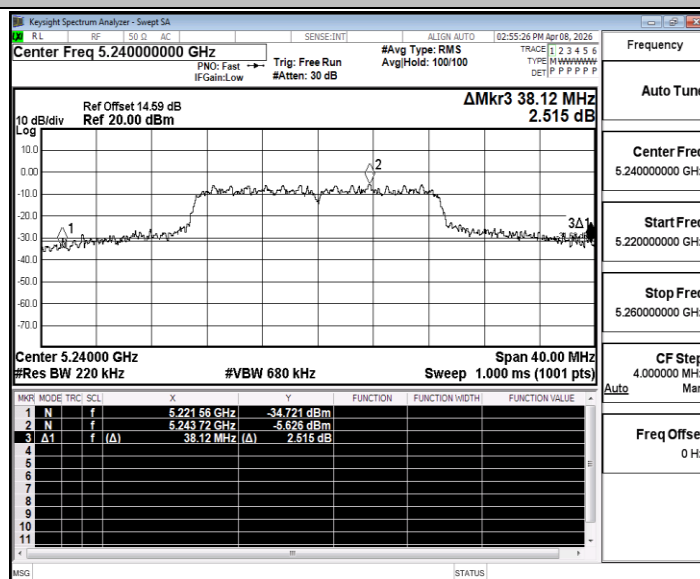


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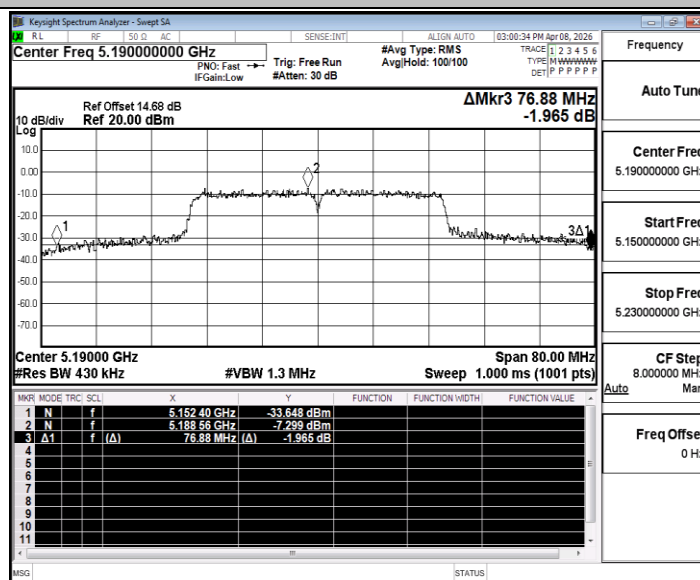
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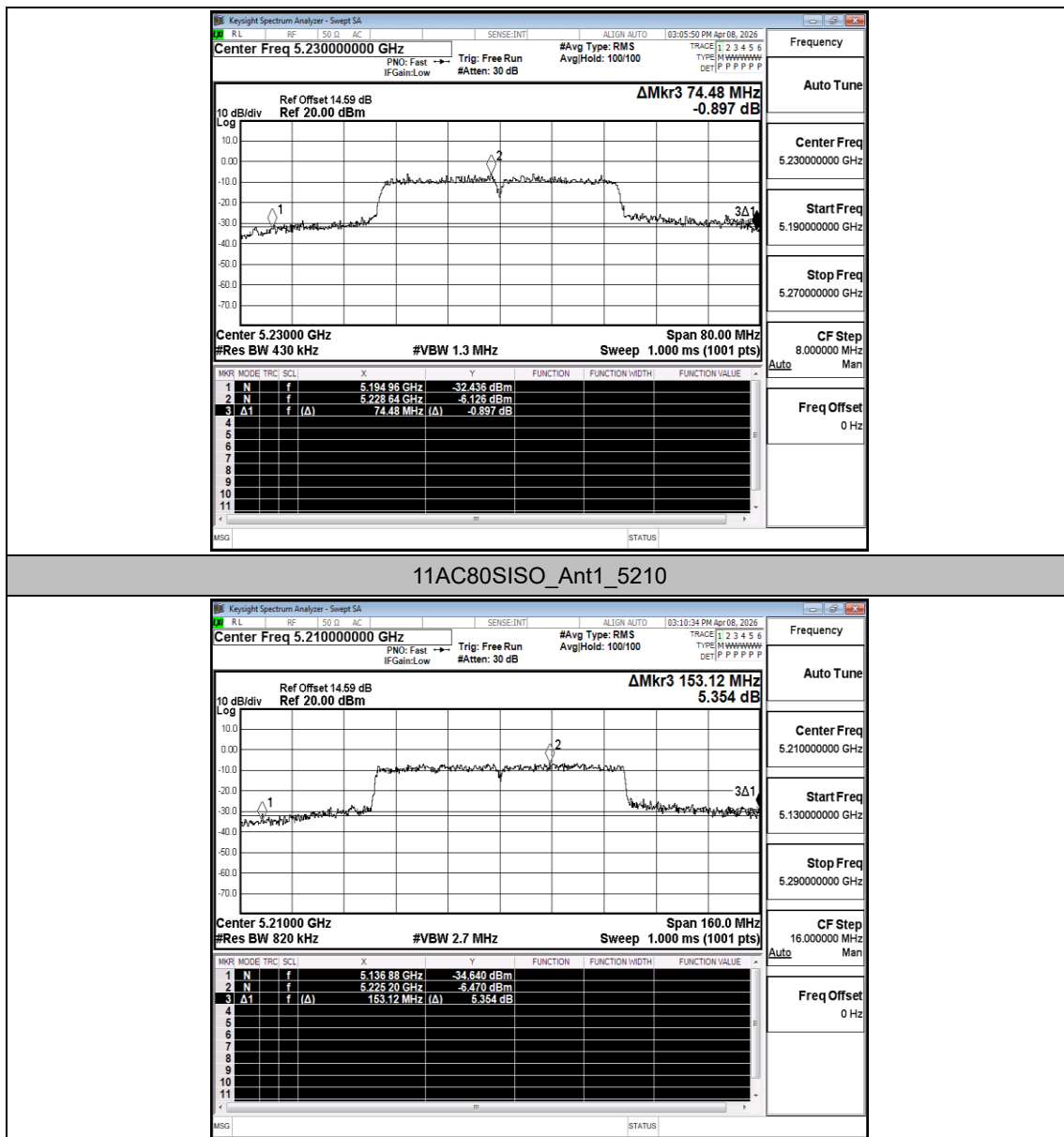
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



D.2 Maximum conducted output power

Test Result

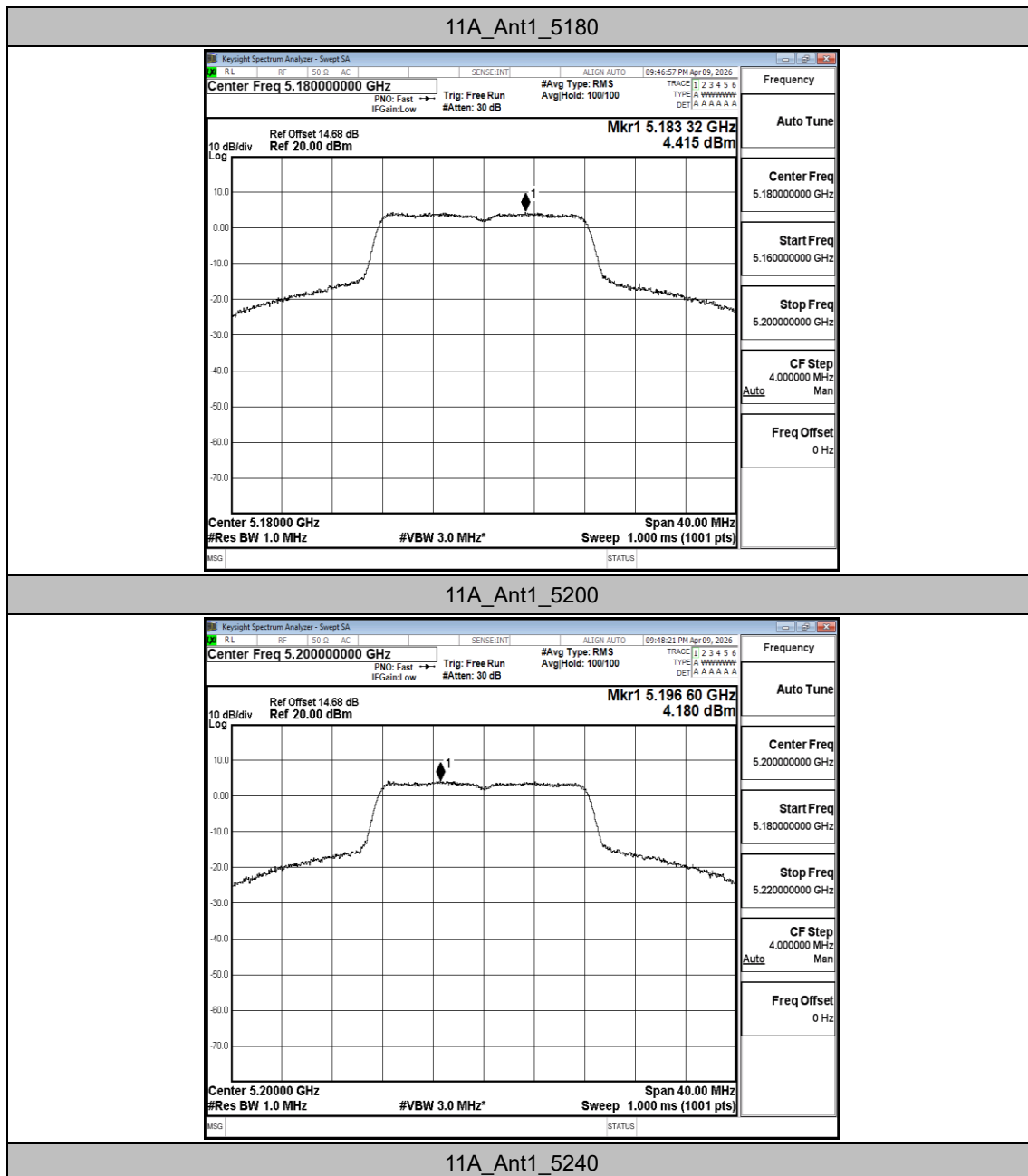
Test Mode	Antenna	Freq (MHz)	Measured Power [dBm]	DC Factor [dB]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	16.23	1.76	17.99	≤24.00	PASS
		5200	16.09	1.76	17.85	≤24.00	PASS
		5240	16.05	1.76	17.81	≤24.00	PASS
11N20SISO	Ant1	5180	16.28	2.14	18.42	≤24.00	PASS
		5200	16.02	2.14	18.16	≤24.00	PASS
		5240	15.91	2.14	18.05	≤24.00	PASS
11N40SISO	Ant1	5190	15.85	2.69	18.54	≤24.00	PASS
		5230	15.75	2.69	18.44	≤24.00	PASS
11AC20SISO	Ant1	5180	16.09	1.76	17.85	≤24.00	PASS
		5200	16.02	1.76	17.78	≤24.00	PASS
		5240	15.96	1.76	17.72	≤24.00	PASS
11AC40SISO	Ant1	5190	15.86	2.43	18.29	≤24.00	PASS
		5230	15.75	2.43	18.18	≤24.00	PASS
11AC80SISO	Ant1	5210	14.77	3.01	17.78	≤24.00	PASS

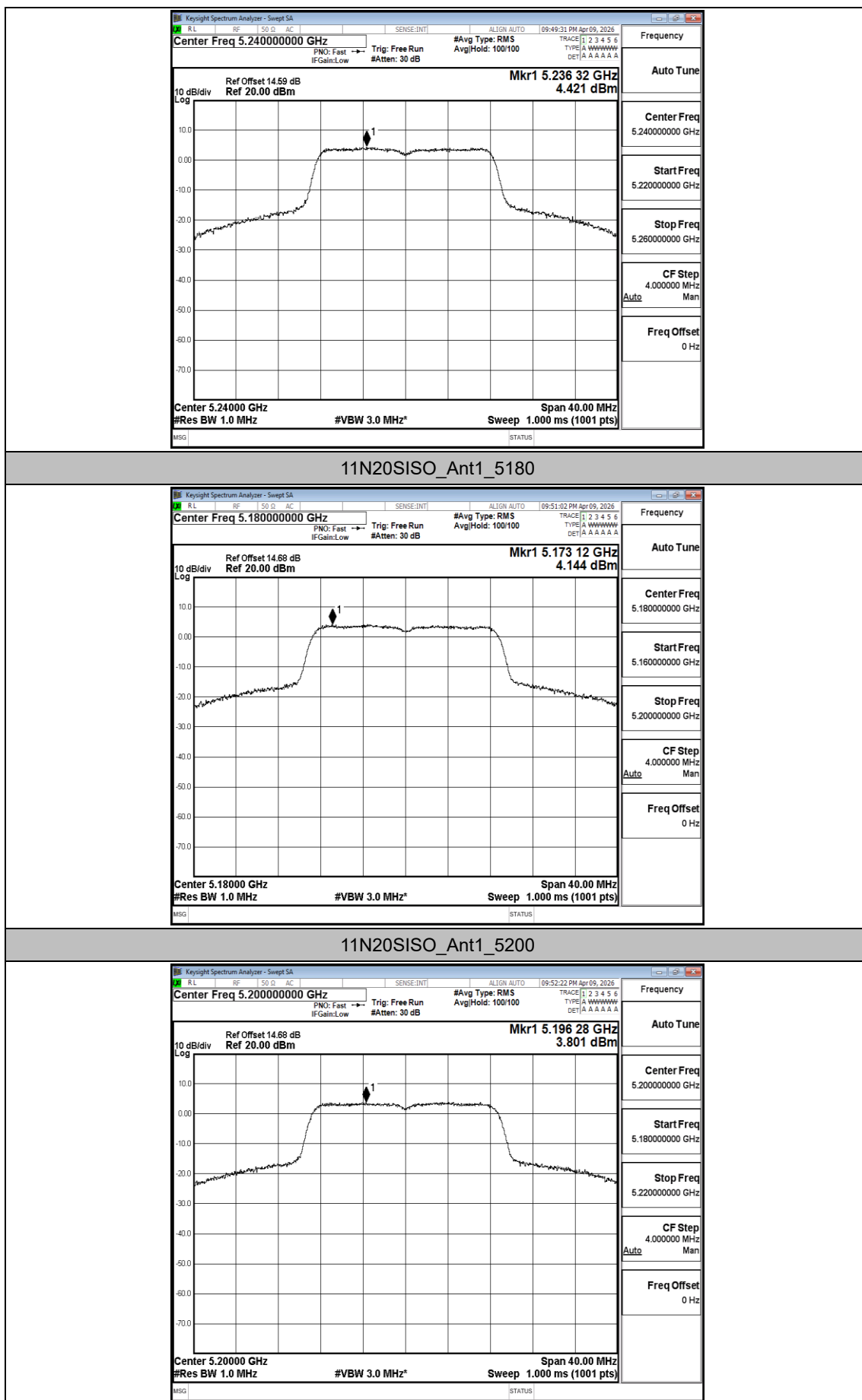
D.3 Maximum power spectral density

Test Result

TestMode	Antenna	Freq (MHz)	Raw Data [dBm/MHz]	DC Factor	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5180	4.42	1.76	6.18	≤11.00	PASS
		5200	4.18	2.14	6.32	≤11.00	PASS
		5240	4.42	1.76	6.18	≤11.00	PASS
11N20SISO	Ant1	5180	4.14	2.14	6.28	≤11.00	PASS
		5200	3.8	2.14	5.94	≤11.00	PASS
		5240	3.62	2.14	5.76	≤11.00	PASS
11N40SISO	Ant1	5190	0.72	2.69	3.41	≤11.00	PASS
		5230	0.88	3.01	3.89	≤11.00	PASS
11AC20SISO	Ant1	5180	3.96	2.00	5.96	≤11.00	PASS
		5200	3.83	2.00	5.83	≤11.00	PASS
		5240	3.82	1.76	5.58	≤11.00	PASS
11AC40SISO	Ant1	5190	0.9	2.43	3.33	≤11.00	PASS
		5230	1.06	2.22	3.28	≤11.00	PASS
11AC80SISO	Ant1	5210	-3.01	3.01	0.00	≤11.00	PASS

Test Graphs



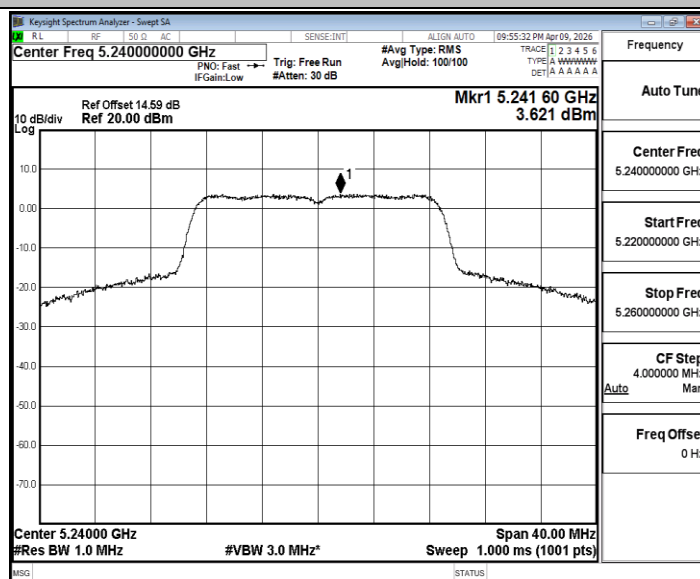


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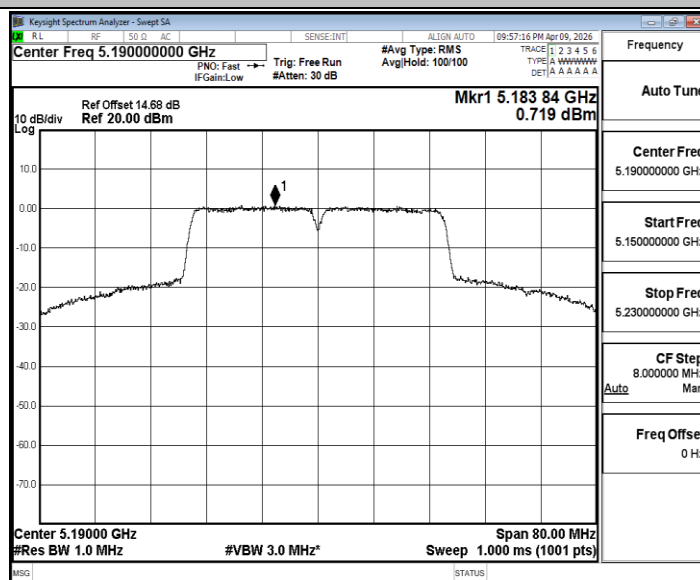
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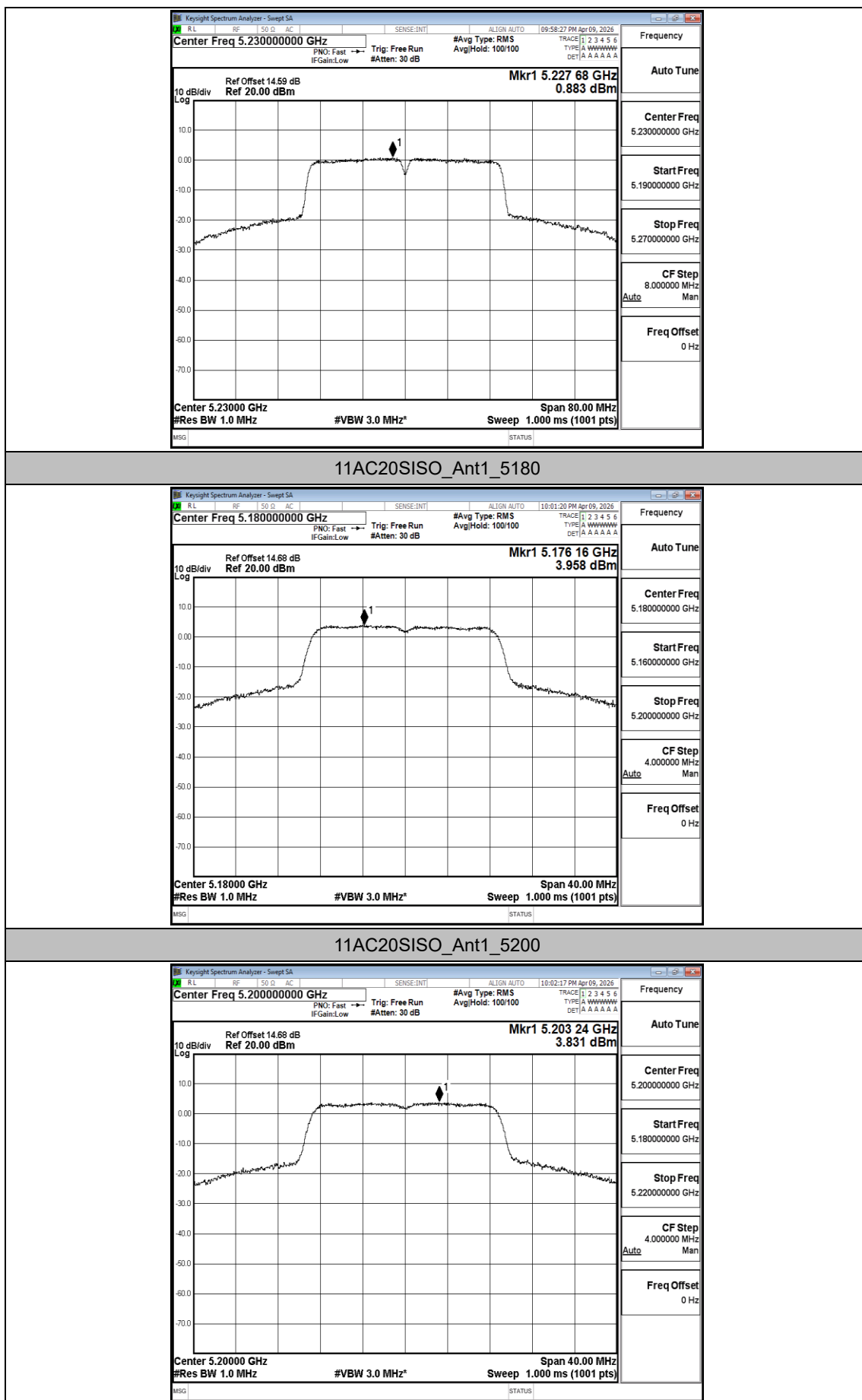
11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230

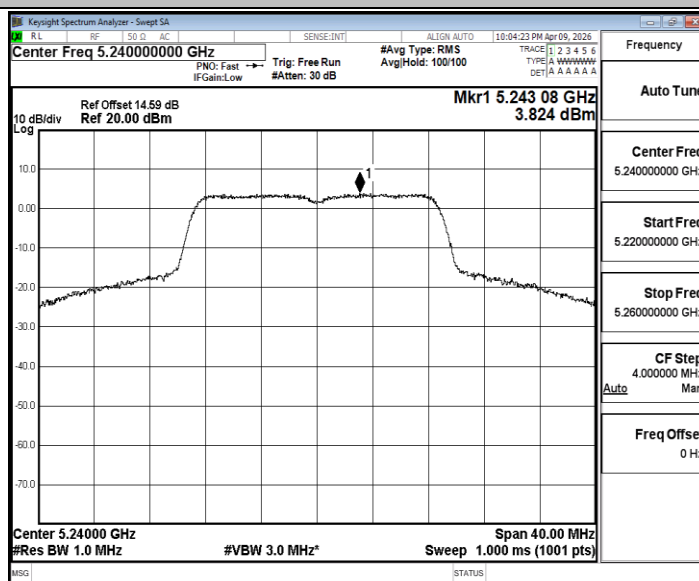


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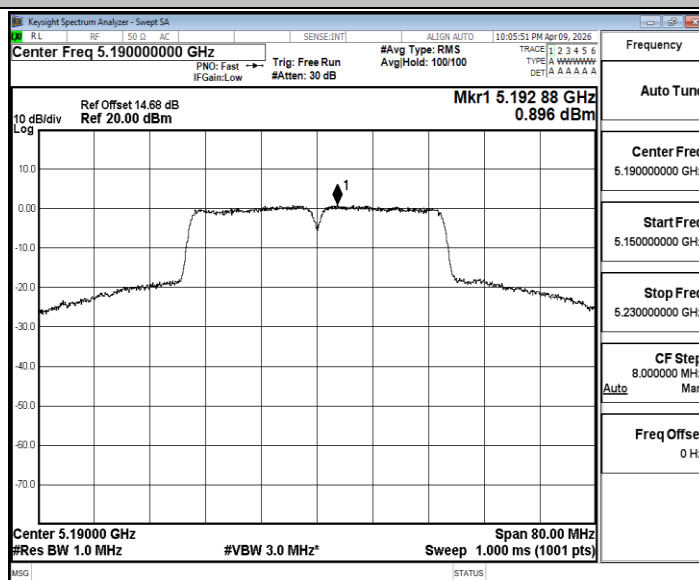
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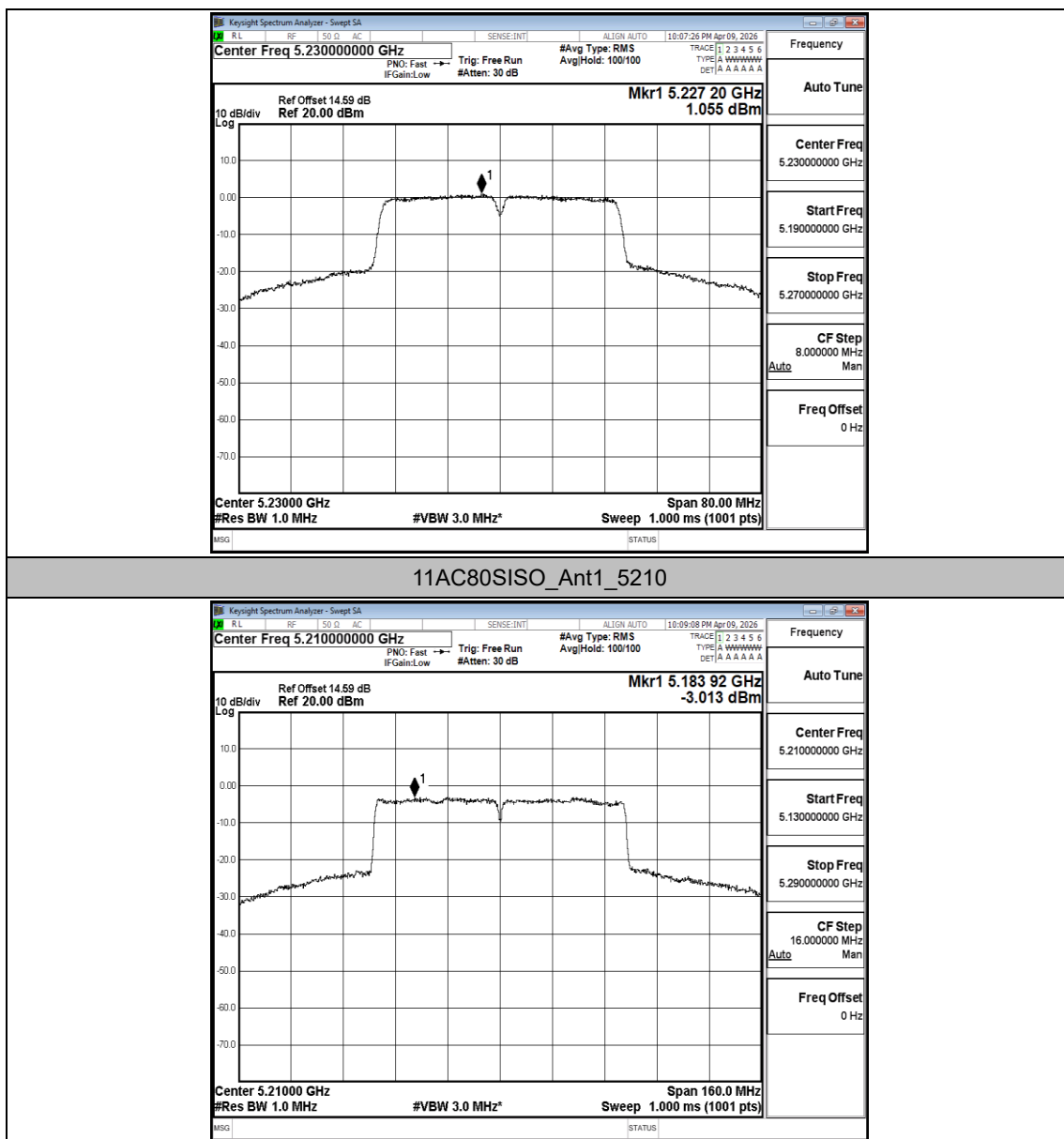
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



D.4 Emissions in Restricted Bands

Test Result

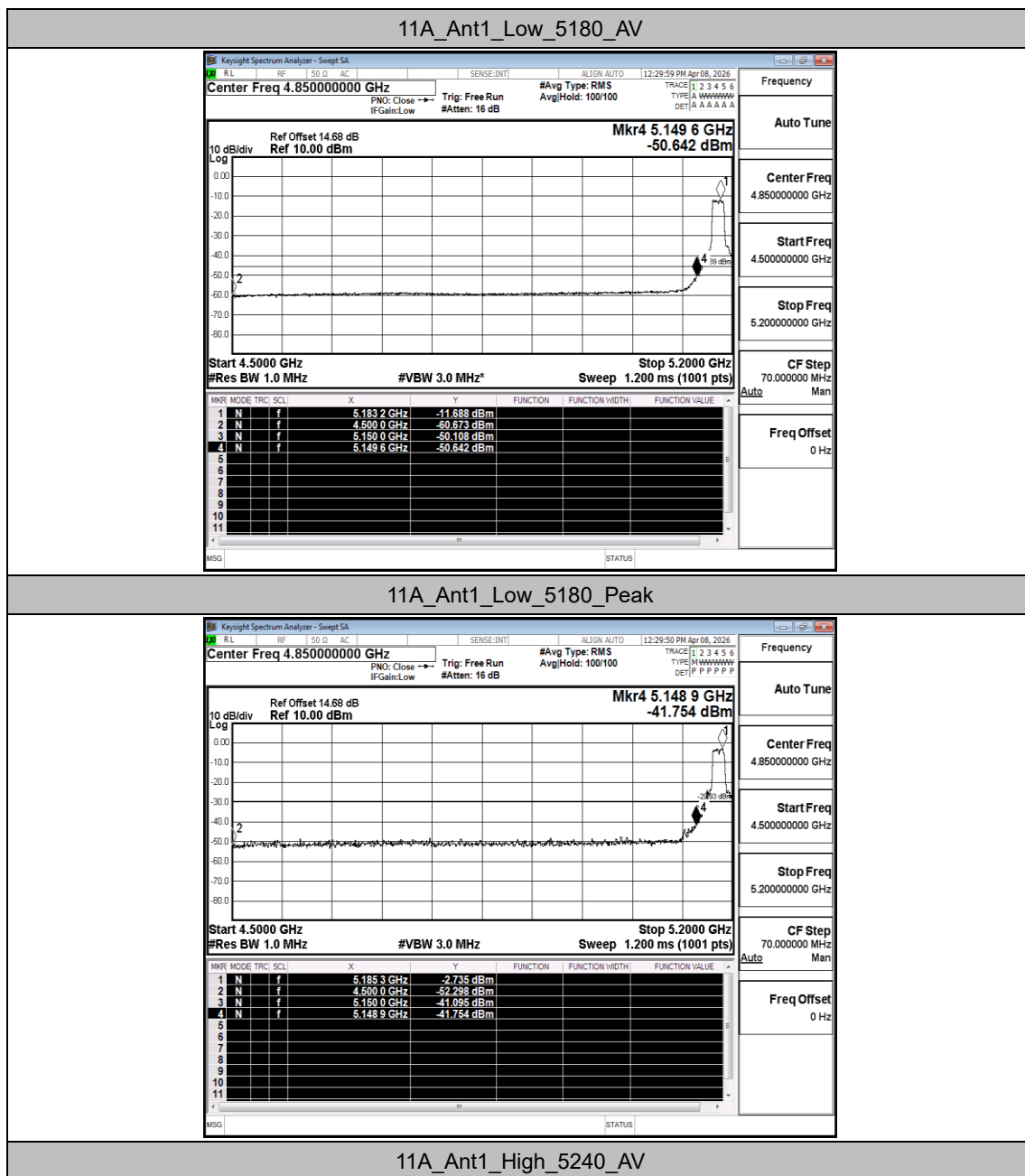
TestMode	Antenna	ChName	Freq (MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Gain [dBi]	DC Factor [dB]	Result [dBUV/m]	Limit [dBUV/m]	Verdict
11A	Ant1	Low	5180	AV	4500.000	-60.67	≤-45.89	2.93	1.76	39.22	≤54	PASS
				AV	5149.600	-50.64	≤-45.89	2.93	1.76	49.25	≤54	PASS
				AV	5150.000	-50.11	≤-45.89	2.93	1.76	49.78	≤54	PASS
				Peak	4500.000	-52.3	≤-29.93	2.93	0.00	45.83	≤68.2	PASS
				Peak	5148.900	-41.75	≤-29.93	2.93	0.00	56.38	≤68.2	PASS
				Peak	5150.000	-41.1	≤-29.93	2.93	0.00	57.03	≤68.2	PASS
		High	5240	AV	5350.000	-59.35	≤-45.89	2.93	1.76	40.54	≤54	PASS
				AV	5350.320	-59.18	≤-45.89	2.93	1.76	40.71	≤54	PASS
				AV	5460.000	-60.39	≤-45.89	2.93	1.76	39.50	≤54	PASS
				Peak	5350.000	-49.56	≤-29.93	2.93	0.00	48.57	≤68.2	PASS
				Peak	5376.000	-48.71	≤-29.93	2.93	0.00	49.42	≤68.2	PASS
				Peak	5460.000	-53.59	≤-29.93	2.93	0.00	44.54	≤68.2	PASS
11N20SISO	Ant1	Low	5180	AV	4500.000	-61.02	≤-46.27	2.93	2.14	39.25	≤54	PASS
				AV	5149.600	-48.88	≤-46.27	2.93	2.14	51.39	≤54	PASS
				AV	5150.000	-48.84	≤-46.27	2.93	2.14	51.43	≤54	PASS
				Peak	4500.000	-52.07	≤-29.93	2.93	0.00	46.06	≤68.2	PASS
				Peak	5146.800	-39.07	≤-29.93	2.93	0.00	59.06	≤68.2	PASS
				Peak	5150.000	-38.28	≤-29.93	2.93	0.00	59.85	≤68.2	PASS
		High	5240	AV	5350.000	-60.08	≤-46.27	2.93	2.14	40.19	≤54	PASS
				AV	5368.080	-59.28	≤-46.27	2.93	2.14	40.99	≤54	PASS
				AV	5460.000	-60.62	≤-46.27	2.93	2.14	39.65	≤54	PASS
				Peak	5350.000	-52.65	≤-29.93	2.93	0.00	45.48	≤68.2	PASS
				Peak	5350.800	-49.58	≤-29.93	2.93	0.00	48.55	≤68.2	PASS
				Peak	5460.000	-52.02	≤-29.93	2.93	0.00	46.11	≤68.2	PASS
11N40SISO	Ant1	Low	5190	AV	4500.000	-60.83	≤-46.82	2.93	2.69	39.99	≤54	PASS
				AV	5146.800	-55.97	≤-46.82	2.93	2.69	44.85	≤54	PASS
				AV	5150.000	-55.44	≤-46.82	2.93	2.69	45.38	≤54	PASS
				Peak	4500.000	-52	≤-29.93	2.93	0.00	46.13	≤68.2	PASS
				Peak	5147.500	-45.62	≤-29.93	2.93	0.00	52.51	≤68.2	PASS
				Peak	5150.000	-45.95	≤-29.93	2.93	0.00	52.18	≤68.2	PASS
		High	5230	AV	5350.000	-59.04	≤-47.14	2.93	3.01	42.10	≤54	PASS
				AV	5352.360	-58.47	≤-47.14	2.93	3.01	42.67	≤54	PASS
				AV	5460.000	-60.23	≤-47.14	2.93	3.01	40.91	≤54	PASS
				Peak	5350.000	-50.35	≤-29.93	2.93	0.00	47.78	≤68.2	PASS
				Peak	5376.540	-48.2	≤-29.93	2.93	0.00	49.93	≤68.2	PASS
				Peak	5460.000	-52.09	≤-29.93	2.93	0.00	46.04	≤68.2	PASS

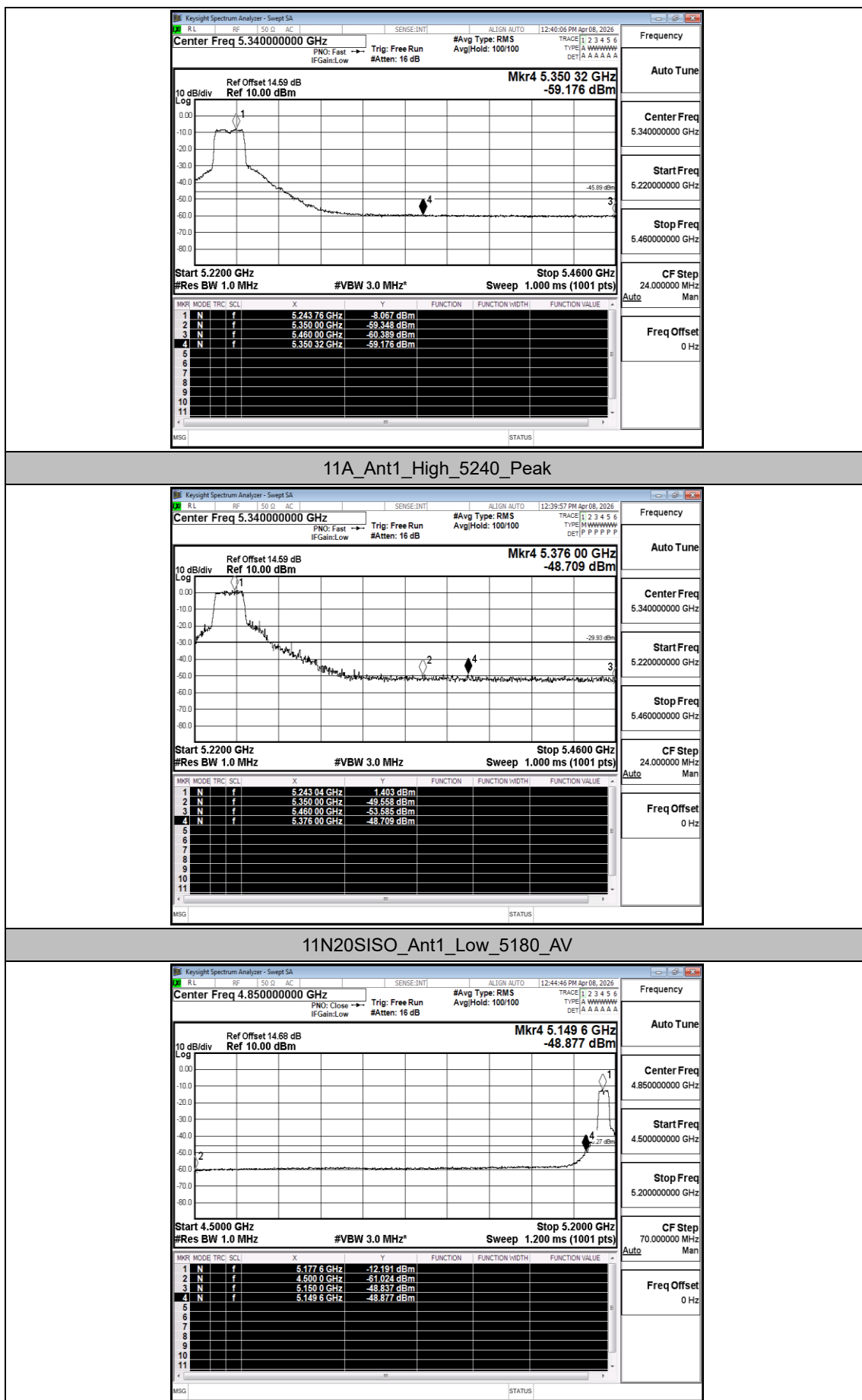
11AC20SISO	Ant1	Low	5180	AV	4500.000	-60.7	≤-46.13	2.93	2.00	39.43	≤54	PASS
				AV	5149.600	-48.95	≤-46.13	2.93	2.00	51.18	≤54	PASS
				AV	5150.000	-49.1	≤-46.13	2.93	2.00	51.03	≤54	PASS
				Peak	4500.000	-53.08	≤-29.93	2.93	0.00	45.05	≤68.2	PASS
				Peak	5148.200	-36.88	≤-29.93	2.93	0.00	61.25	≤68.2	PASS
				Peak	5150.000	-40.05	≤-29.93	2.93	0.00	58.08	≤68.2	PASS
		High	5240	AV	5350.000	-60.11	≤-45.89	2.93	1.76	39.78	≤54	PASS
				AV	5374.560	-59.36	≤-45.89	2.93	1.76	40.53	≤54	PASS
				AV	5460.000	-60.16	≤-45.89	2.93	1.76	39.73	≤54	PASS
				Peak	5350.000	-52.13	≤-29.93	2.93	0.00	46.00	≤68.2	PASS
				Peak	5400.240	-49.91	≤-29.93	2.93	0.00	48.22	≤68.2	PASS
				Peak	5460.000	-52.47	≤-29.93	2.93	0.00	45.66	≤68.2	PASS
11AC40SISO	Ant1	Low	5190	AV	4500.000	-60.35	≤-46.56	2.93	2.43	40.21	≤54	PASS
				AV	5147.500	-55.71	≤-46.56	2.93	2.43	44.85	≤54	PASS
				AV	5150.000	-55.56	≤-46.56	2.93	2.43	45.00	≤54	PASS
				Peak	4500.000	-51.77	≤-29.93	2.93	0.00	46.36	≤68.2	PASS
				Peak	5145.400	-45.03	≤-29.93	2.93	0.00	53.10	≤68.2	PASS
				Peak	5150.000	-45.74	≤-29.93	2.93	0.00	52.39	≤68.2	PASS
		High	5230	AV	5350.000	-59.21	≤-46.35	2.93	2.22	41.14	≤54	PASS
				AV	5351.580	-58.55	≤-46.35	2.93	2.22	41.80	≤54	PASS
				AV	5460.000	-60.3	≤-46.35	2.93	2.22	40.05	≤54	PASS
				Peak	5350.000	-50.46	≤-29.93	2.93	0.00	47.67	≤68.2	PASS
				Peak	5352.100	-47.54	≤-29.93	2.93	0.00	50.59	≤68.2	PASS
				Peak	5460.000	-51.75	≤-29.93	2.93	0.00	46.38	≤68.2	PASS
11AC80SISO	Ant1	Low	5210	AV	4500.000	-60.97	≤-47.14	2.93	3.01	40.17	≤54	PASS
				AV	5147.250	-50.73	≤-47.14	2.93	3.01	50.41	≤54	PASS
				AV	5150.000	-50.83	≤-47.14	2.93	3.01	50.31	≤54	PASS
				Peak	4500.000	-51.74	≤-29.93	2.93	0.00	46.39	≤68.2	PASS
				Peak	5129.250	-38.4	≤-29.93	2.93	0.00	59.73	≤68.2	PASS
				Peak	5150.000	-38.53	≤-29.93	2.93	0.00	59.60	≤68.2	PASS
		High	5210	AV	5350.000	-56.44	≤-47.14	2.93	3.01	44.70	≤54	PASS
				AV	5353.880	-56.29	≤-47.14	2.93	3.01	44.85	≤54	PASS
				AV	5460.000	-60.25	≤-47.14	2.93	3.01	40.89	≤54	PASS
				Peak	5350.000	-47.86	≤-29.93	2.93	0.00	50.27	≤68.2	PASS
				Peak	5350.800	-44.13	≤-29.93	2.93	0.00	54.00	≤68.2	PASS
				Peak	5460.000	-53.12	≤-29.93	2.93	0.00	45.01	≤68.2	PASS

Note:

1. The Antenna Gain is compensated in the graph.

Test Graphs





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