



Appendix D

RF Test Data for 5.2GWIFI (Conducted Measurement)

Product Name: IP PHONE

Test Model: CIP291PLUS

Environmental Conditions

Temperature:	23.2°C
Relative Humidity:	53.1%
ATM Pressure:	100.0 kPa
Test Engineer:	Jerry Chu
Supervised by:	Can Kun





D.1 Emission Bandwidth

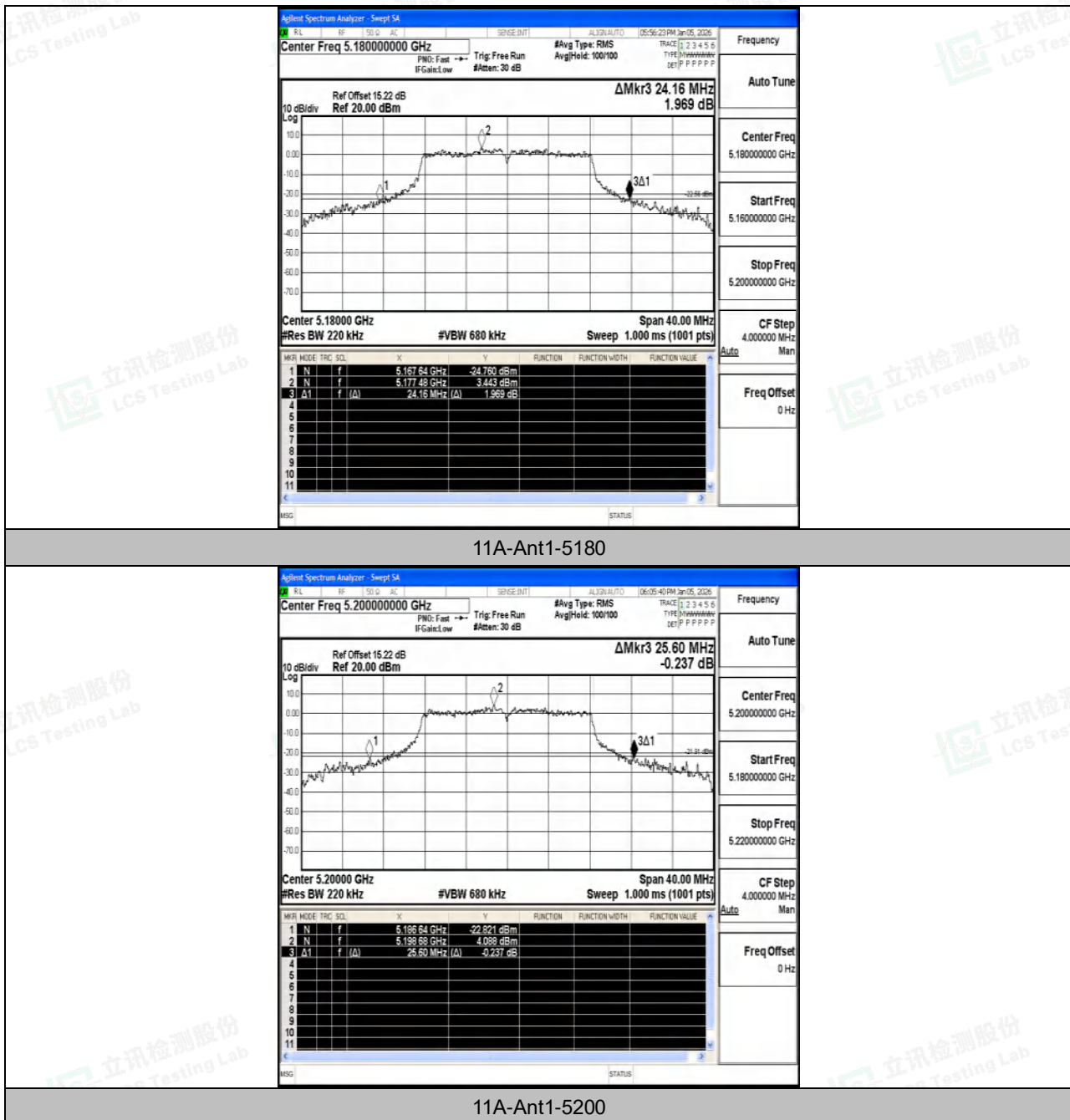
Test Result

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	24.160	5167.640	5191.800	---	---
11A	Ant1	5200	25.600	5186.640	5212.240	---	---
11A	Ant1	5240	19.240	5230.320	5249.560	---	---
11N20SISO	Ant1	5180	22.360	5168.920	5191.280	---	---
11N20SISO	Ant1	5200	23.280	5188.640	5211.920	---	---
11N20SISO	Ant1	5240	19.920	5229.960	5249.880	---	---
11N40SISO	Ant1	5190	39.920	5169.840	5209.760	---	---
11N40SISO	Ant1	5230	39.280	5210.400	5249.680	---	---
11AC20SISO	Ant1	5180	24.560	5167.080	5191.640	---	---
11AC20SISO	Ant1	5200	24.720	5187.560	5212.280	---	---
11AC20SISO	Ant1	5240	20.160	5229.880	5250.040	---	---
11AC40SISO	Ant1	5190	40.720	5169.600	5210.320	---	---
11AC40SISO	Ant1	5230	40.640	5209.760	5250.400	---	---
11AC80SISO	Ant1	5210	80.480	5169.840	5250.320	---	---





Test Graphs

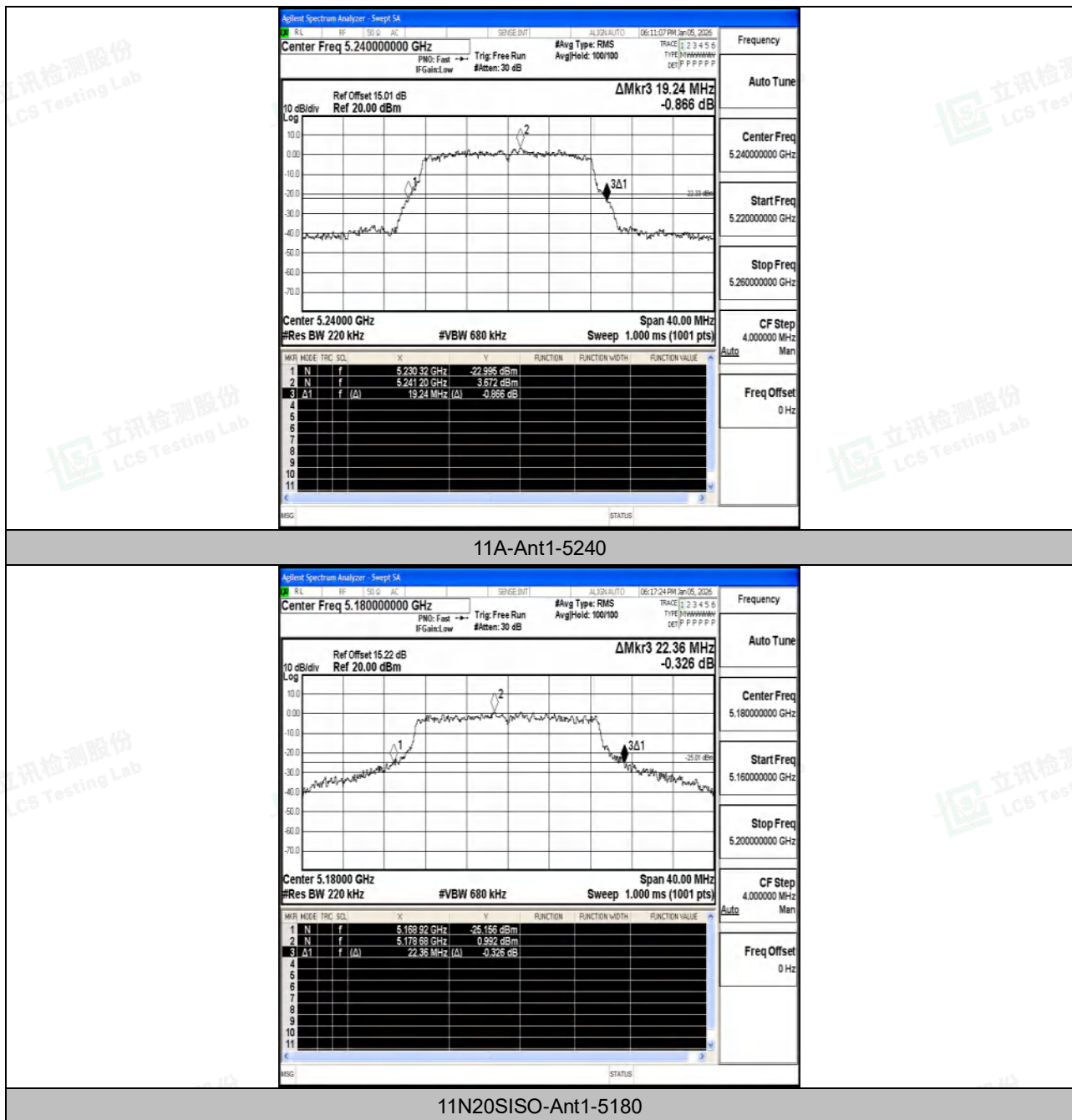


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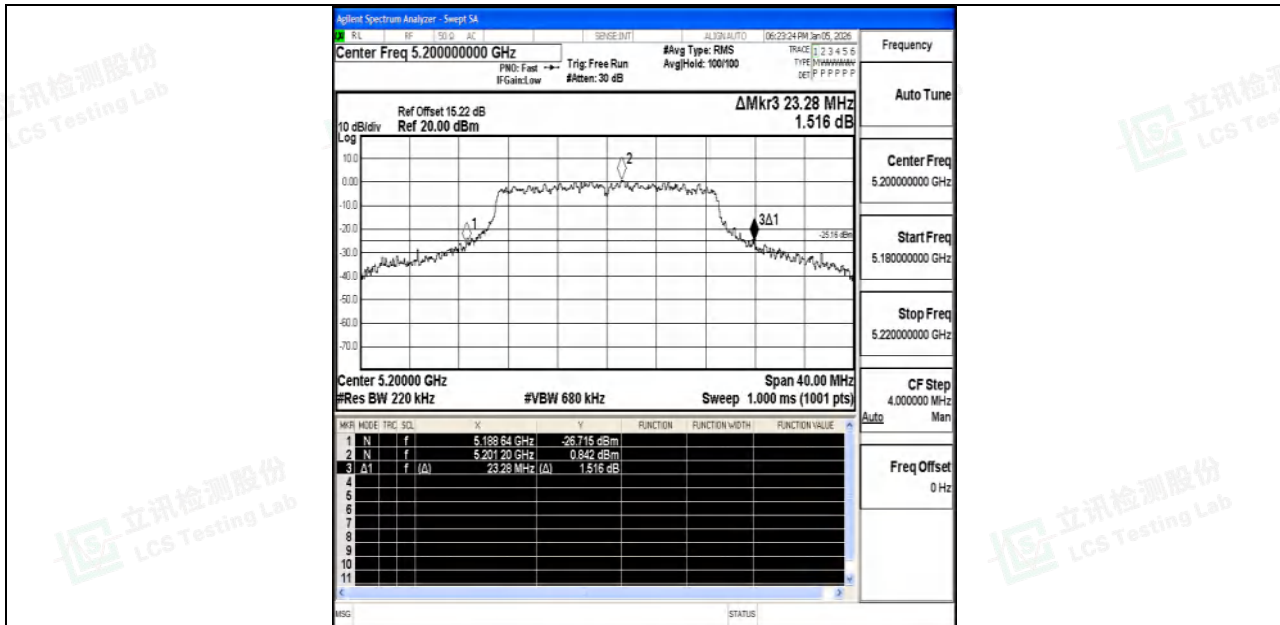


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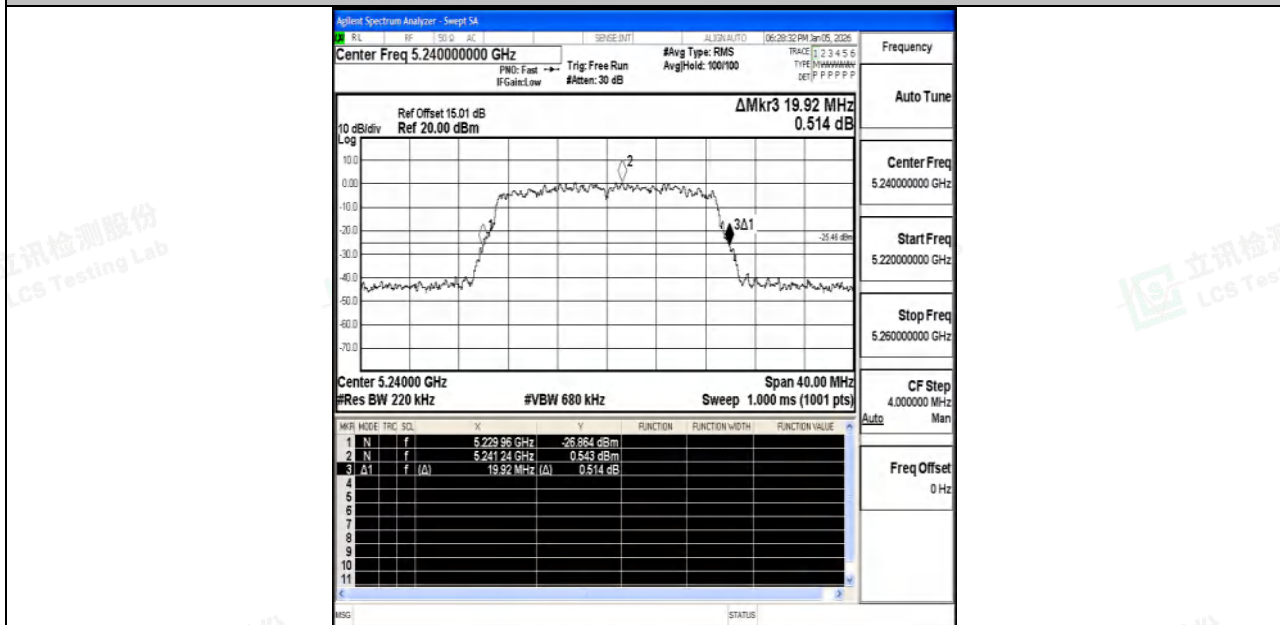
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11N20SISO-Ant1-5200



11N20SISO-Ant1-5240

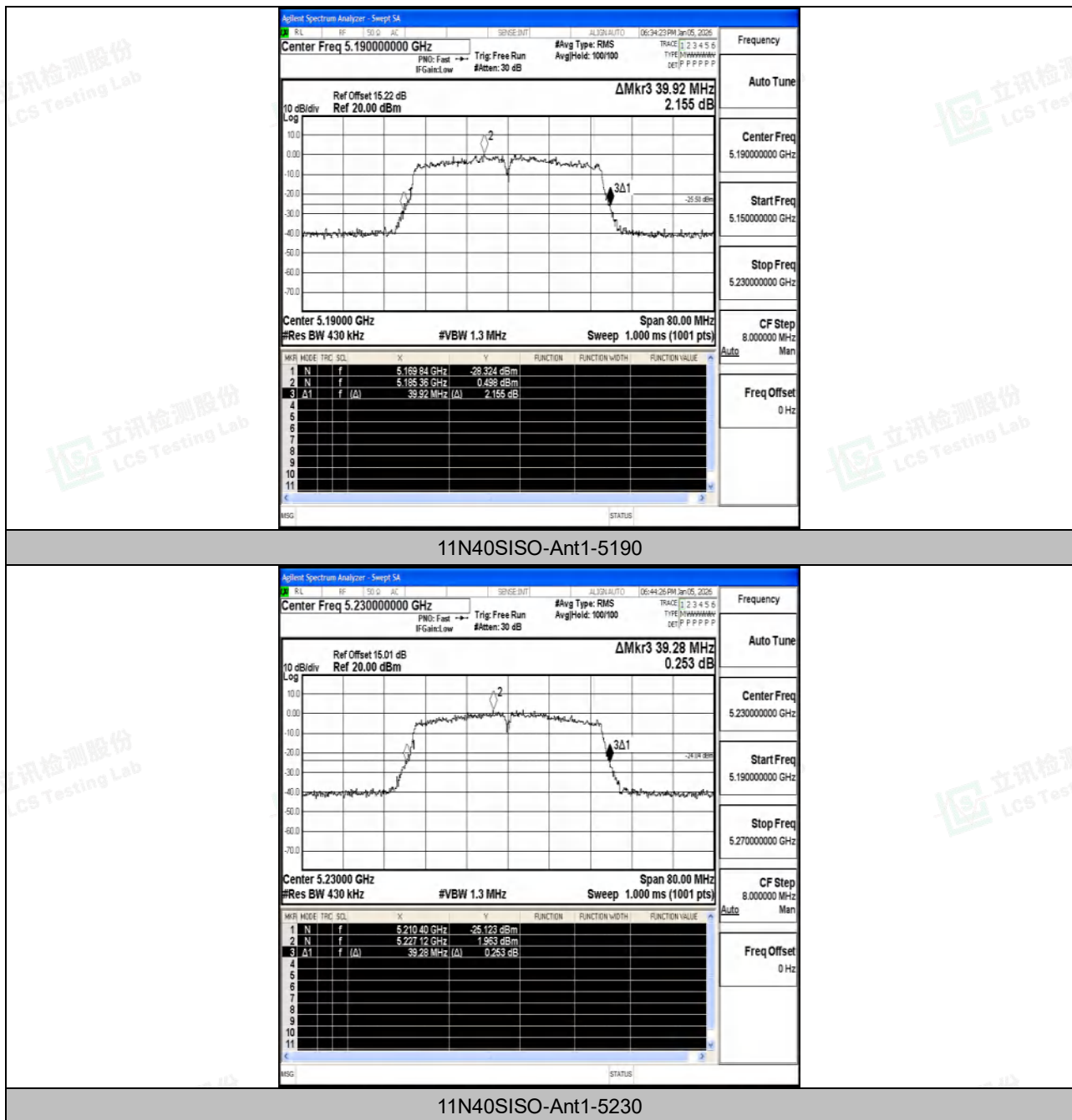


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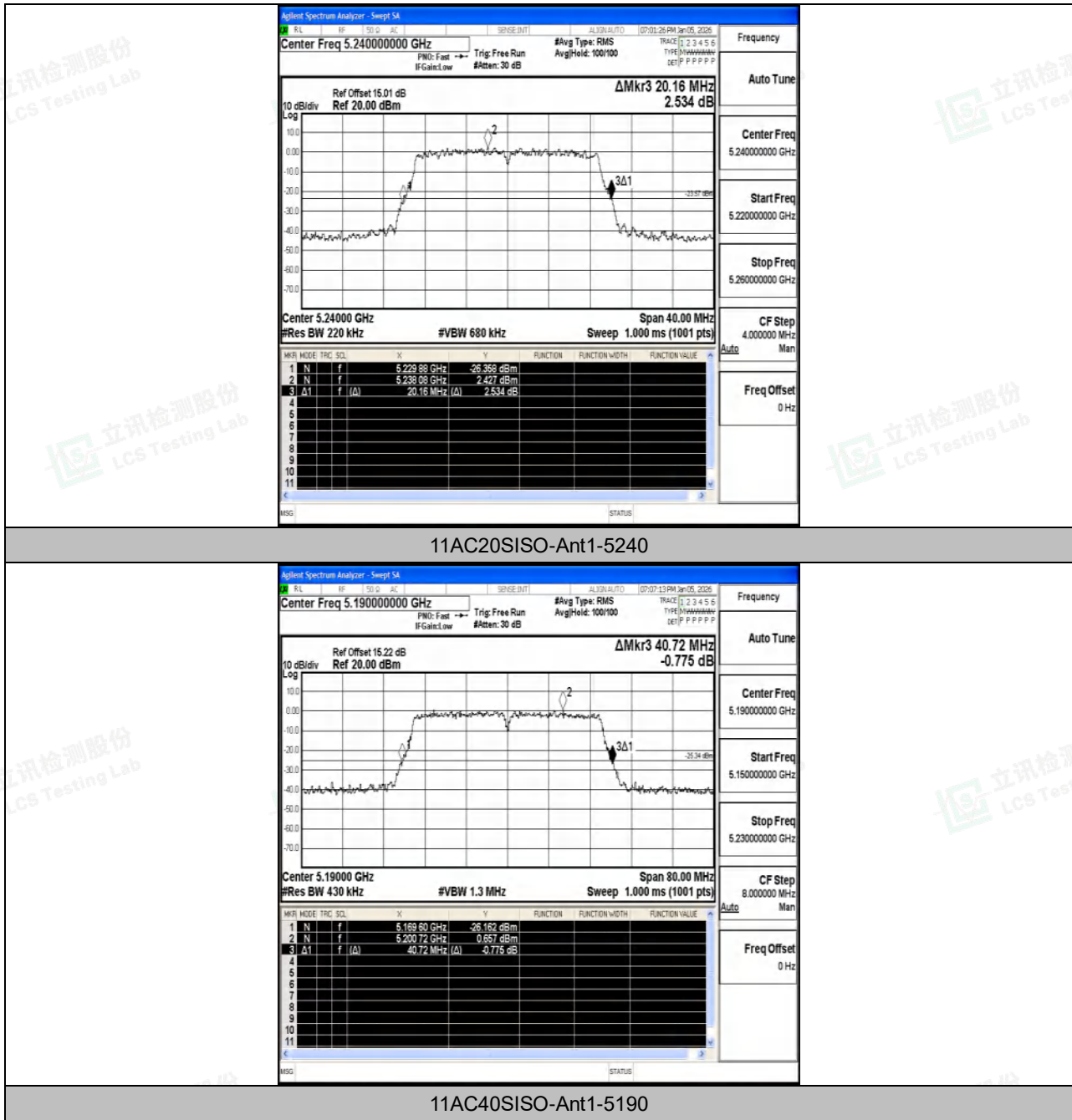


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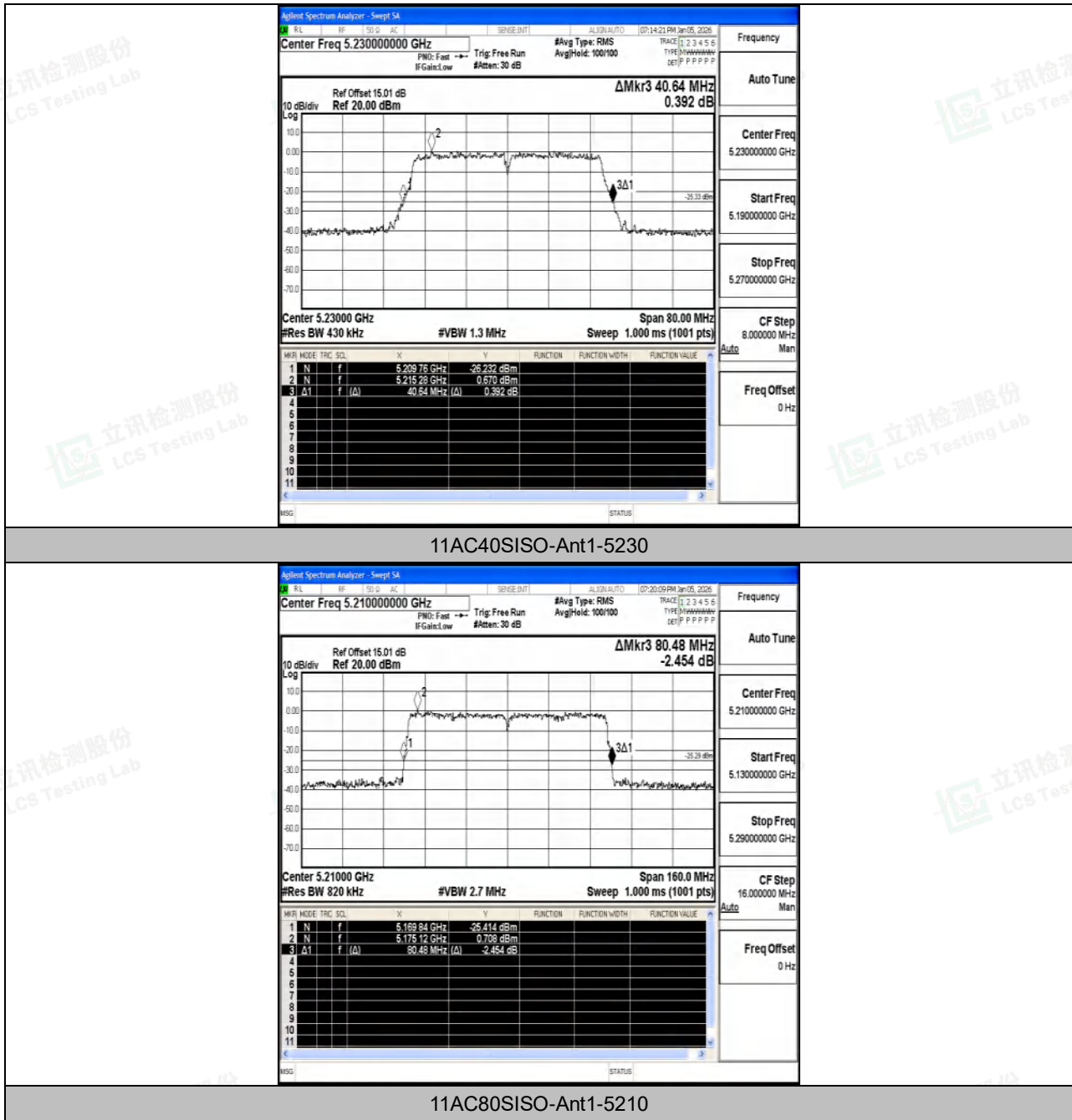


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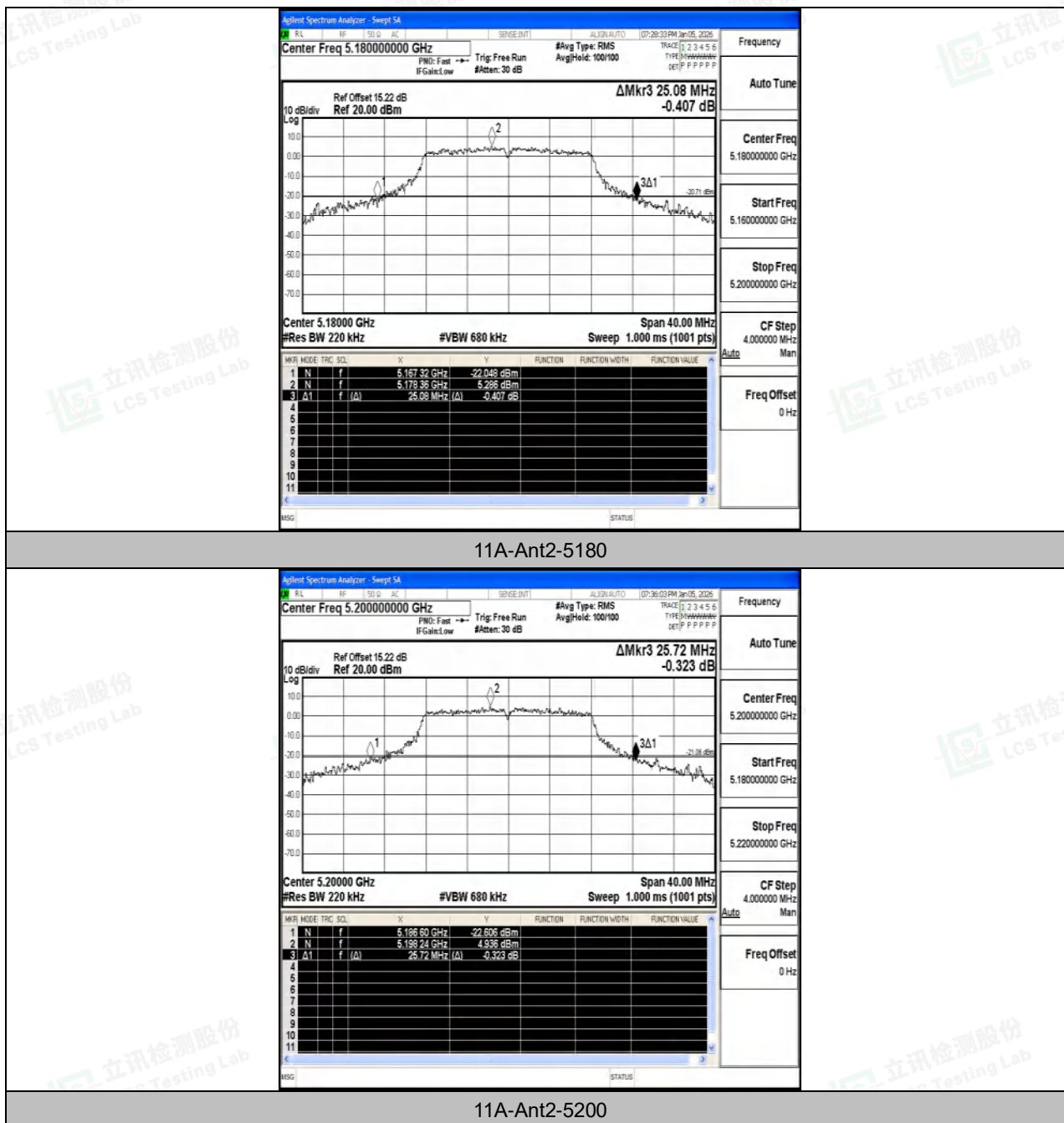
**Test Result**

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5180	25.080	5167.320	5192.400	---	---
11A	Ant2	5200	25.720	5186.600	5212.320	---	---
11A	Ant2	5240	19.800	5230.040	5249.840	---	---
11N20SISO	Ant2	5180	22.480	5168.680	5191.160	---	---
11N20SISO	Ant2	5200	23.480	5188.240	5211.720	---	---
11N20SISO	Ant2	5240	19.880	5229.920	5249.800	---	---
11N40SISO	Ant2	5190	39.600	5170.160	5209.760	---	---
11N40SISO	Ant2	5230	40.080	5210.000	5250.080	---	---
11AC20SISO	Ant2	5180	24.840	5166.920	5191.760	---	---
11AC20SISO	Ant2	5200	25.080	5187.240	5212.320	---	---
11AC20SISO	Ant2	5240	19.960	5229.920	5249.880	---	---
11AC40SISO	Ant2	5190	39.600	5170.160	5209.760	---	---
11AC40SISO	Ant2	5230	39.920	5210.000	5249.920	---	---
11AC80SISO	Ant2	5210	79.840	5170.160	5250.000	---	---





Test Graphs

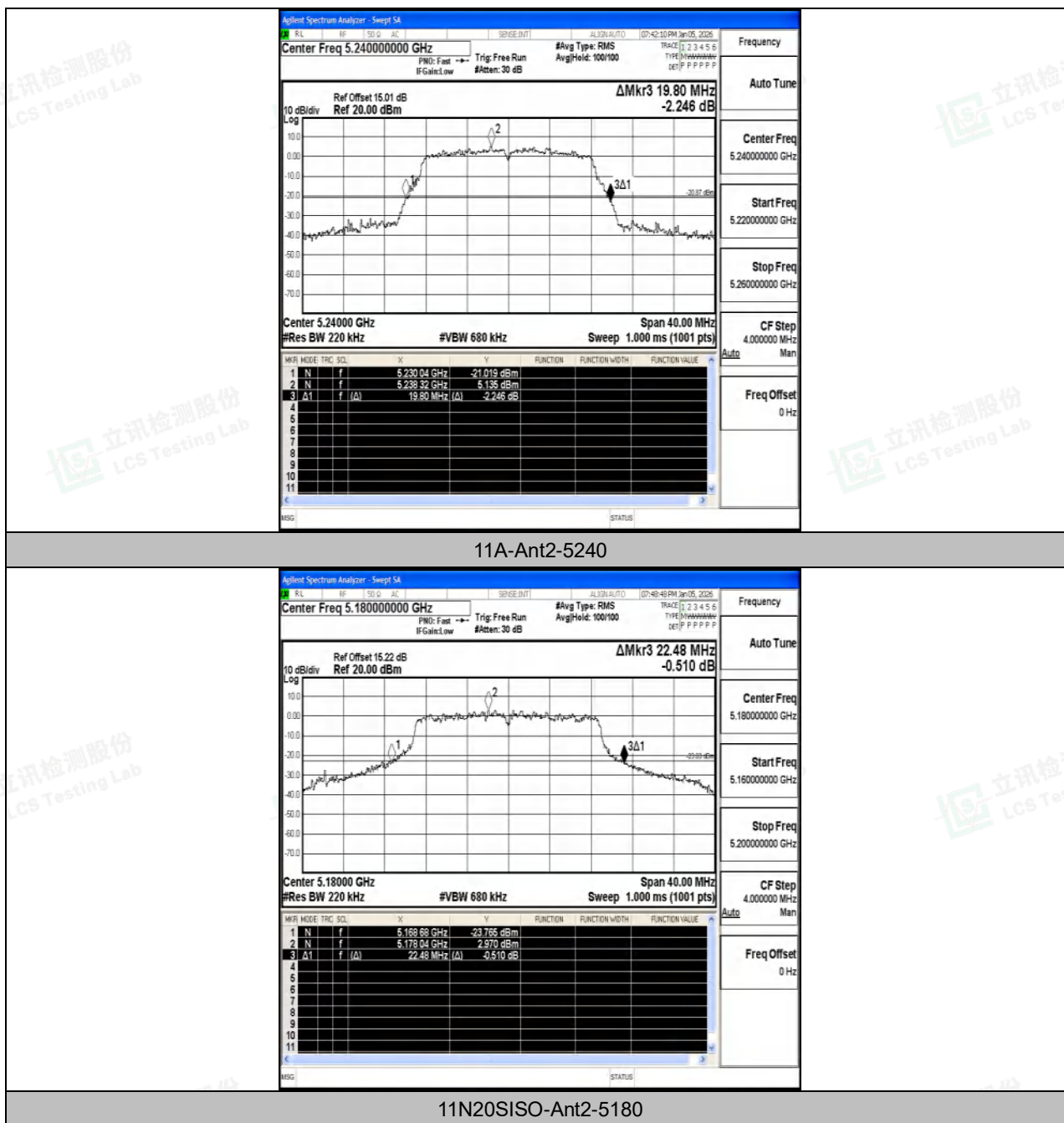


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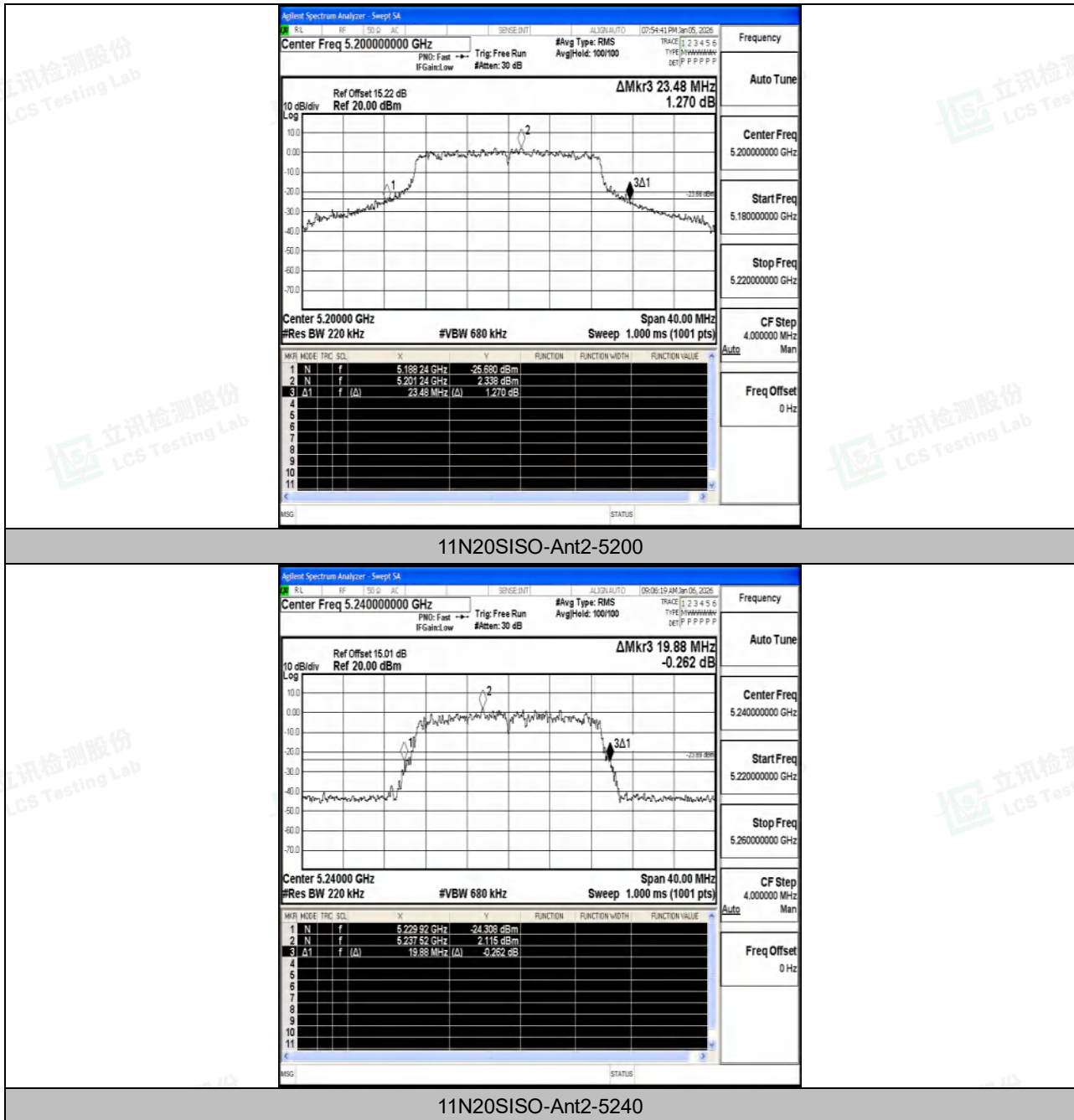


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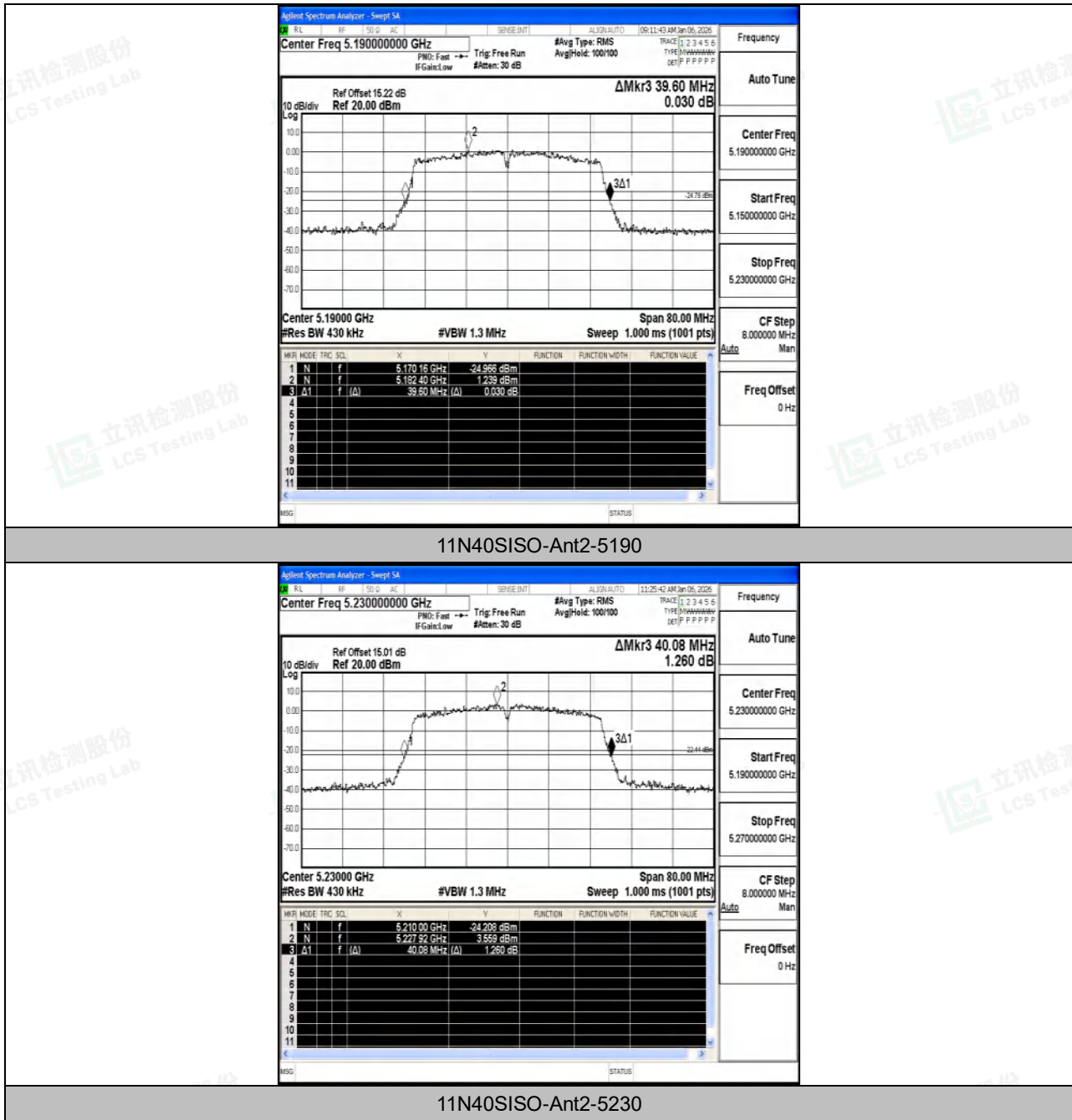


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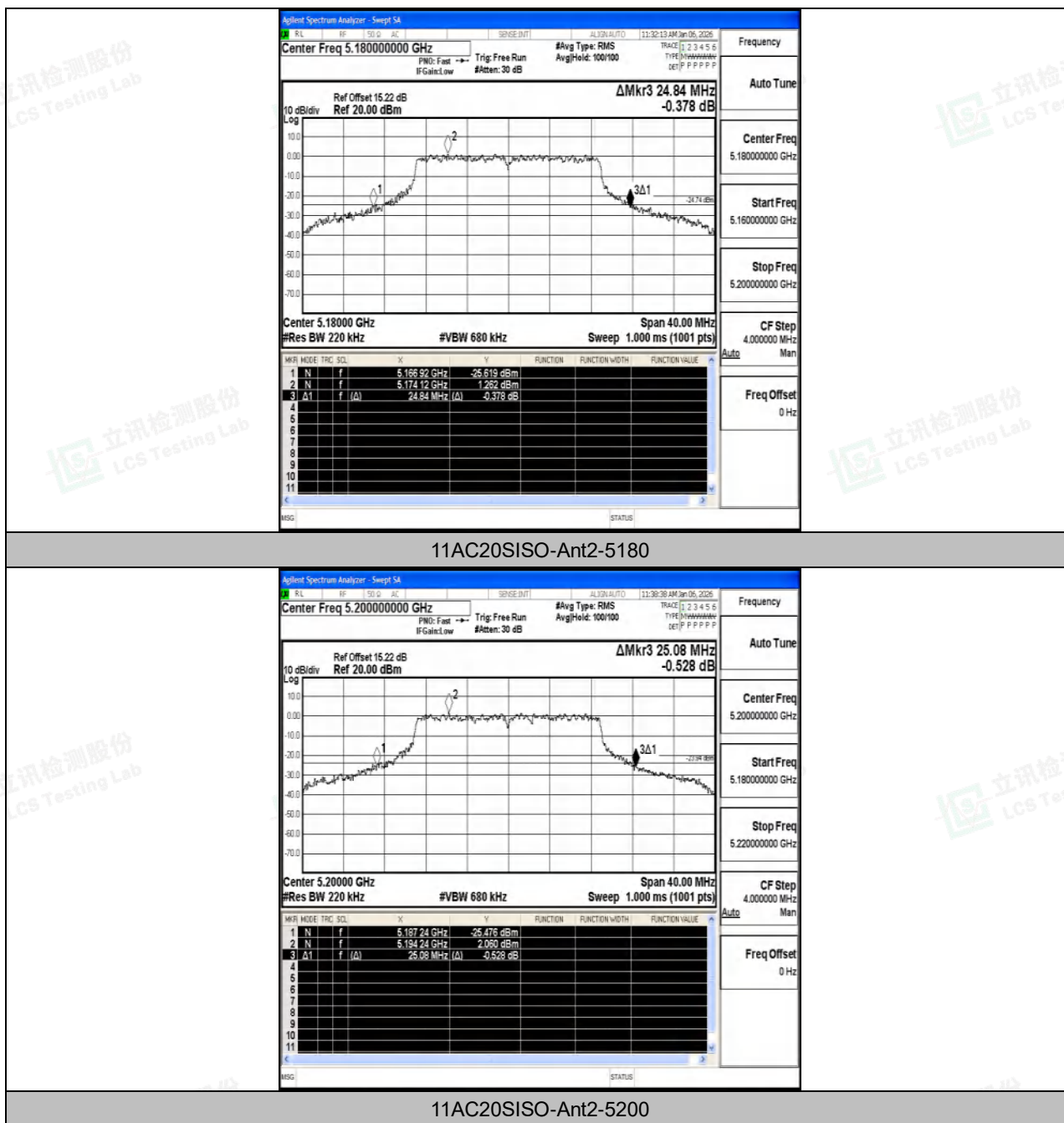


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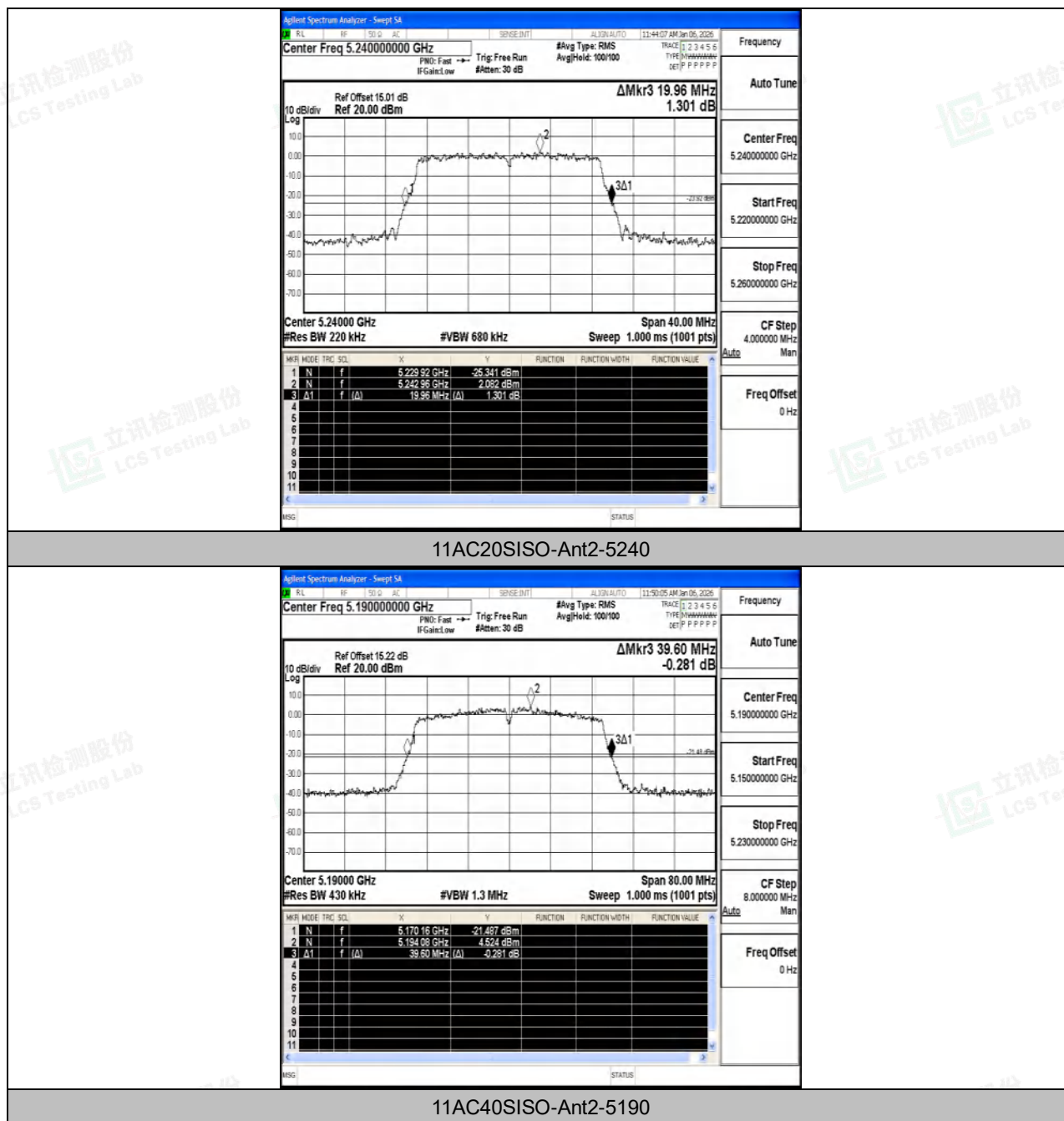


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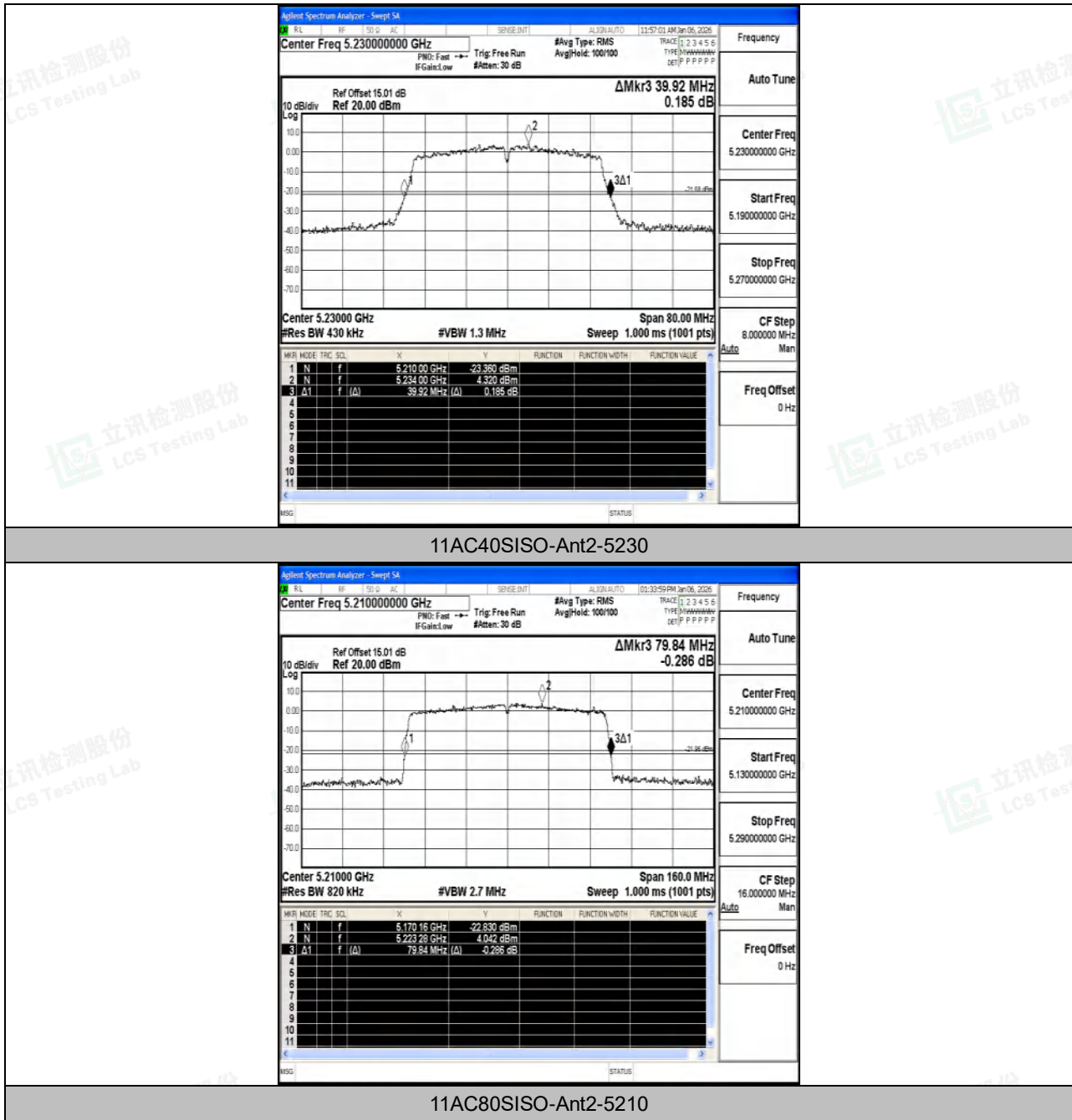


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D.2 Maximum Conducted Output Power

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	11A	5180	Ant1	13.35	0.12	13.47	24	Pass
NVNT	11A	5200	Ant1	13.43	0.12	13.55	24	Pass
NVNT	11A	5240	Ant1	12.7	0.09	12.79	24	Pass
NVNT	11N20SISO	5180	Ant1	13.76	1.46	15.22	24	Pass
NVNT	11N20SISO	5200	Ant1	13.42	1.05	14.47	24	Pass
NVNT	11N20SISO	5240	Ant1	13.23	1.05	14.28	24	Pass
NVNT	11N40SISO	5190	Ant1	12.22	3.59	15.81	24	Pass
NVNT	11N40SISO	5230	Ant1	12.61	3.31	15.92	24	Pass
NVNT	11AC20SISO	5180	Ant1	13.63	0.79	14.42	24	Pass
NVNT	11AC20SISO	5200	Ant1	13.22	1.09	14.31	24	Pass
NVNT	11AC20SISO	5240	Ant1	13.09	1.03	14.12	24	Pass
NVNT	11AC40SISO	5190	Ant1	12.65	2.22	14.87	24	Pass
NVNT	11AC40SISO	5230	Ant1	12.64	3.24	15.88	24	Pass
NVNT	11AC80SISO	5210	Ant1	12.08	3.36	15.44	24	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted Power (dBm)	Duty Factor (dB)	Total Power (dBm)	Limit (dBm)	Verdict
NVNT	11A	5180	Ant2	15.24	0.09	15.33	24	Pass
NVNT	11A	5200	Ant2	14.71	0.12	14.83	24	Pass
NVNT	11A	5240	Ant2	14.45	0.12	14.57	24	Pass
NVNT	11N20SISO	5180	Ant2	14.68	0.1	14.78	24	Pass
NVNT	11N20SISO	5200	Ant2	14.52	0.1	14.62	24	Pass
NVNT	11N20SISO	5240	Ant2	14.18	0.13	14.31	24	Pass
NVNT	11N40SISO	5190	Ant2	13.19	0.26	13.45	24	Pass
NVNT	11N40SISO	5230	Ant2	13.24	0.2	13.44	24	Pass
NVNT	11AC20SISO	5180	Ant2	12.76	1.09	13.85	24	Pass
NVNT	11AC20SISO	5200	Ant2	12.54	0.79	13.33	24	Pass
NVNT	11AC20SISO	5240	Ant2	12.06	0.79	12.85	24	Pass
NVNT	11AC40SISO	5190	Ant2	13.51	0.2	13.71	24	Pass
NVNT	11AC40SISO	5230	Ant2	13.29	0.2	13.49	24	Pass
NVNT	11AC80SISO	5210	Ant2	13.2	0.51	13.71	24	Pass



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**MIMO**

Condition	Mode	Frequency (MHz)	Total Power (dBm)			Limit (dBm)	Verdict
			Ant1	Ant2	Ant1+Ant2		
NVNT	11N20SISO	5180	15.22	14.78	18.02	24	Pass
NVNT	11N20SISO	5200	14.47	14.62	17.56	24	Pass
NVNT	11N20SISO	5240	14.28	14.31	17.31	24	Pass
NVNT	11N40SISO	5190	15.81	13.45	17.80	24	Pass
NVNT	11N40SISO	5230	15.92	13.44	17.86	24	Pass
NVNT	11AC20SISO	5180	14.42	13.85	17.15	24	Pass
NVNT	11AC20SISO	5200	14.31	13.33	16.86	24	Pass
NVNT	11AC20SISO	5240	14.12	12.85	16.54	24	Pass
NVNT	11AC40SISO	5190	14.87	13.71	17.34	24	Pass
NVNT	11AC40SISO	5230	15.88	13.49	17.86	24	Pass
NVNT	11AC80SISO	5210	15.44	13.71	17.67	24	Pass





D.3 Maximum Power Spectral Density Level

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD(dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	11A	5180	Ant1	3.15	0.12	3.27	11	Pass
NVNT	11A	5200	Ant1	3.1	0.12	3.22	11	Pass
NVNT	11A	5240	Ant1	2.76	0.09	2.85	11	Pass
NVNT	11N20SISO	5180	Ant1	-1.7	1.46	-0.24	11	Pass
NVNT	11N20SISO	5200	Ant1	-1.86	1.05	-0.81	11	Pass
NVNT	11N20SISO	5240	Ant1	-1.74	1.05	-0.69	11	Pass
NVNT	11N40SISO	5190	Ant1	-6.09	3.59	-2.5	11	Pass
NVNT	11N40SISO	5230	Ant1	-4.61	3.31	-1.3	11	Pass
NVNT	11AC20SISO	5180	Ant1	0.45	0.79	1.24	11	Pass
NVNT	11AC20SISO	5200	Ant1	0.06	1.09	1.15	11	Pass
NVNT	11AC20SISO	5240	Ant1	0.26	1.03	1.29	11	Pass
NVNT	11AC40SISO	5190	Ant1	-4.68	2.22	-2.46	11	Pass
NVNT	11AC40SISO	5230	Ant1	-4.71	3.24	-1.47	11	Pass
NVNT	11AC80SISO	5210	Ant1	-8.64	3.36	-5.28	11	Pass

Condition	Mode	Frequency (MHz)	Antenna	Conducted PSD (dBm/MHz)	Duty Factor (dB)	Total PSD (dBm/MHz)	Limit (dBm/MHz)	Verdict
NVNT	11A	5180	Ant2	4.85	0.09	4.94	11	Pass
NVNT	11A	5200	Ant2	4.12	0.12	4.24	11	Pass
NVNT	11A	5240	Ant2	4.13	0.12	4.25	11	Pass
NVNT	11N20SISO	5180	Ant2	1.26	0.1	1.36	11	Pass
NVNT	11N20SISO	5200	Ant2	1.43	0.1	1.53	11	Pass
NVNT	11N20SISO	5240	Ant2	3.61	0.13	3.74	11	Pass
NVNT	11N40SISO	5190	Ant2	-0.24	0.26	0.02	11	Pass
NVNT	11N40SISO	5230	Ant2	0.58	0.2	0.78	11	Pass
NVNT	11AC20SISO	5180	Ant2	-0.37	1.09	0.72	11	Pass
NVNT	11AC20SISO	5200	Ant2	-0.56	0.79	0.23	11	Pass
NVNT	11AC20SISO	5240	Ant2	0.54	0.79	1.33	11	Pass
NVNT	11AC40SISO	5190	Ant2	0.8	0.2	1	11	Pass
NVNT	11AC40SISO	5230	Ant2	0.26	0.2	0.46	11	Pass
NVNT	11AC80SISO	5210	Ant2	-2.89	0.51	-2.38	11	Pass



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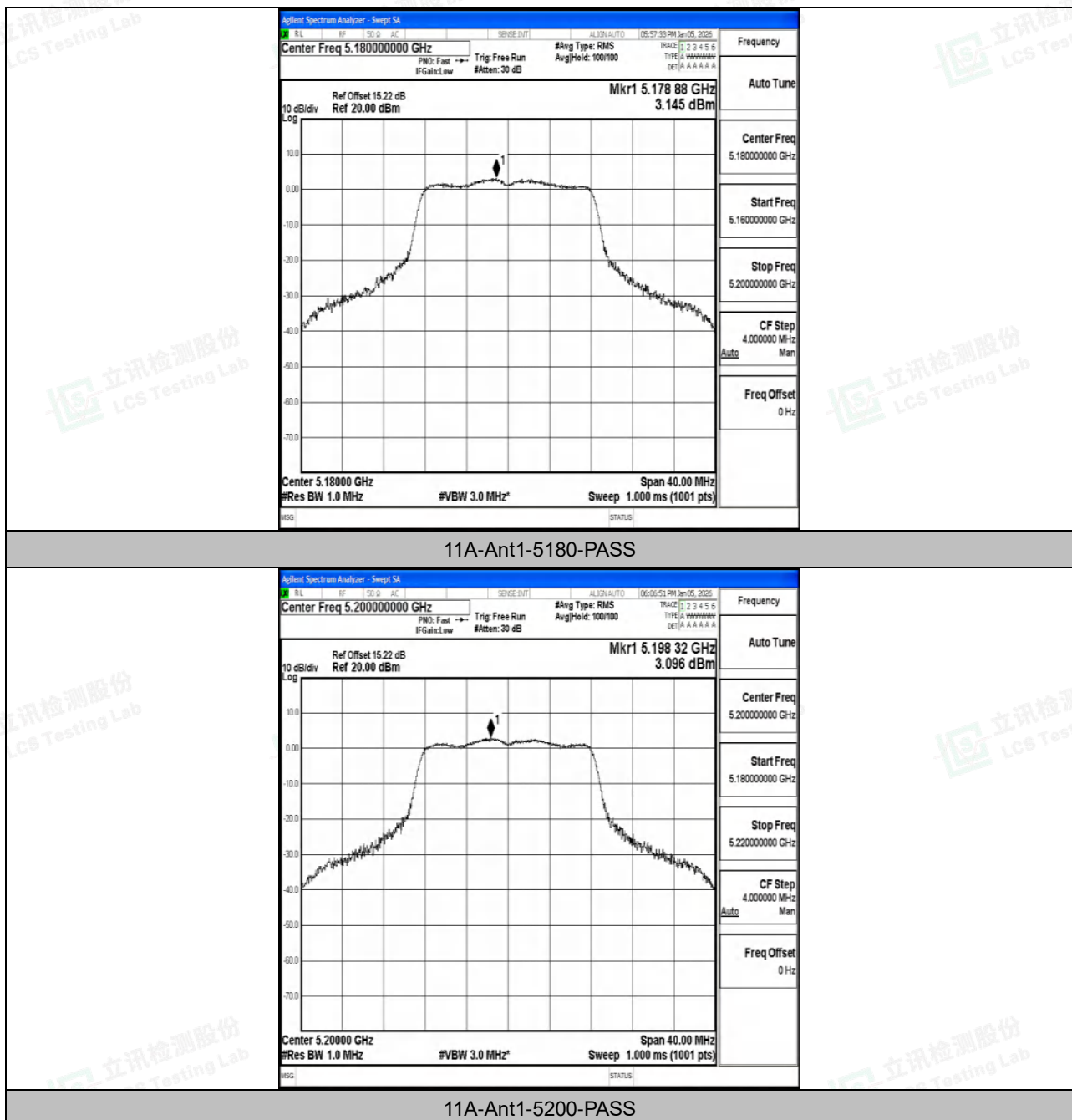
MIMO

Condition	Mode	Frequency (MHz)	Total PSD (dBm/MHz)			Limit (dBm/MHz)	Verdict
			Ant1	Ant2	Ant1+Ant2		
NVNT	11N20SISO	5180	-0.24	1.36	3.64	8.69	Pass
NVNT	11N20SISO	5200	-0.81	1.53	3.53	8.69	Pass
NVNT	11N20SISO	5240	-0.69	3.74	5.08	8.69	Pass
NVNT	11N40SISO	5190	-2.5	0.02	1.95	8.69	Pass
NVNT	11N40SISO	5230	-1.3	0.78	2.87	8.69	Pass
NVNT	11AC20SISO	5180	1.24	0.72	4.00	8.69	Pass
NVNT	11AC20SISO	5200	1.15	0.23	3.72	8.69	Pass
NVNT	11AC20SISO	5240	1.29	1.33	4.32	8.69	Pass
NVNT	11AC40SISO	5190	-2.46	1	2.62	8.69	Pass
NVNT	11AC40SISO	5230	-1.47	0.46	2.61	8.69	Pass
NVNT	11AC80SISO	5210	-5.28	-2.38	-0.58	8.69	Pass





Test Graphs

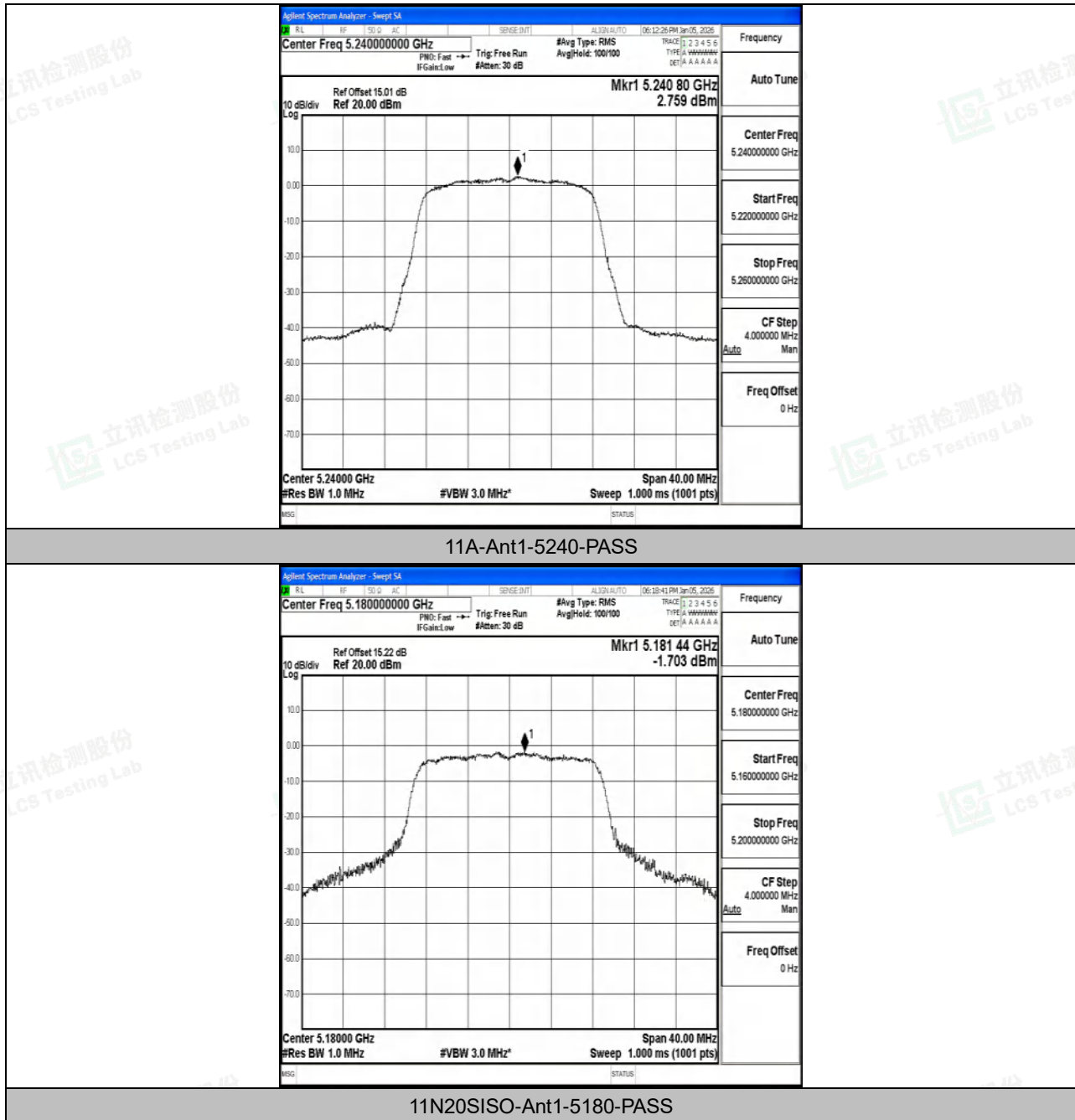


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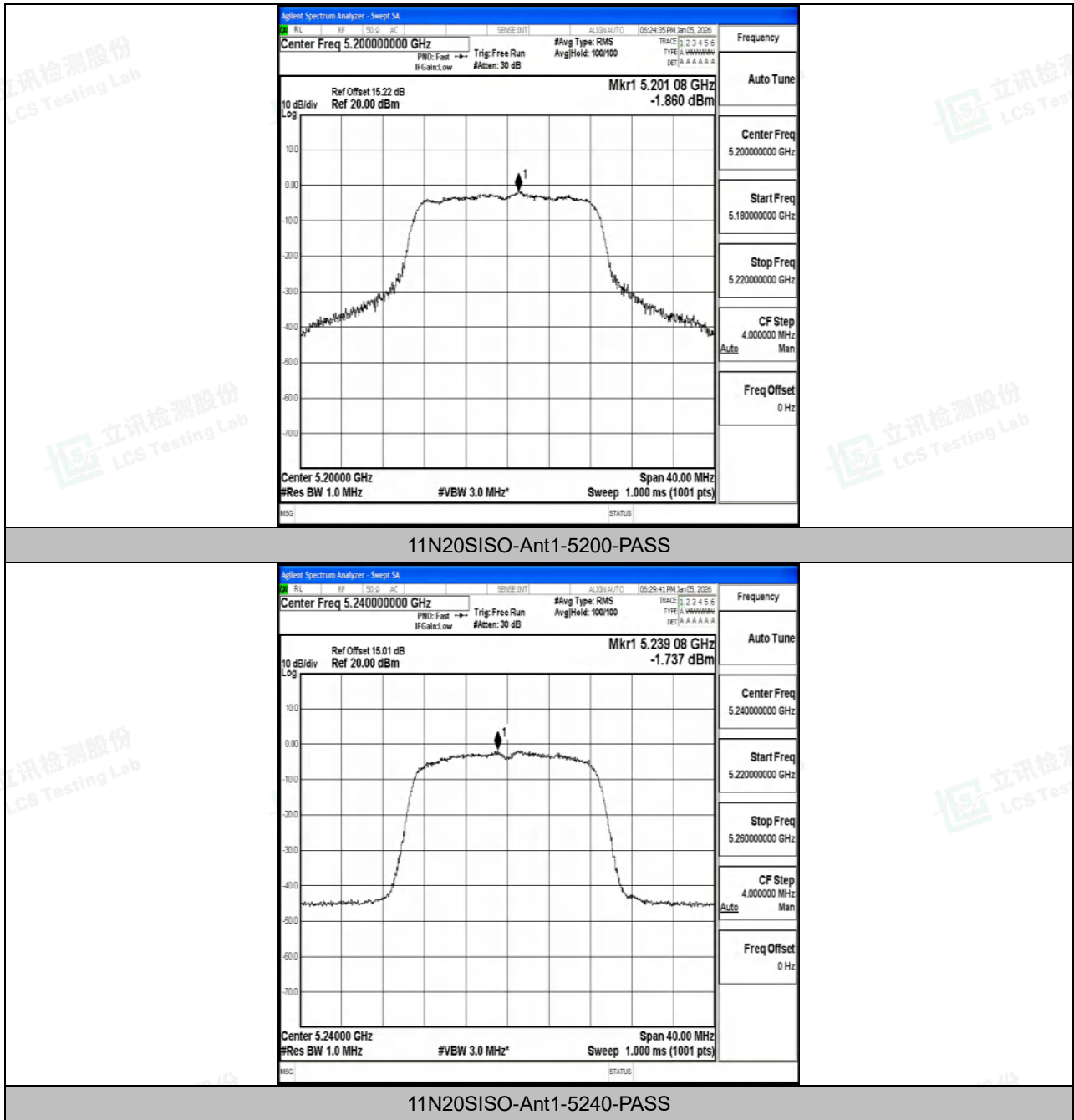


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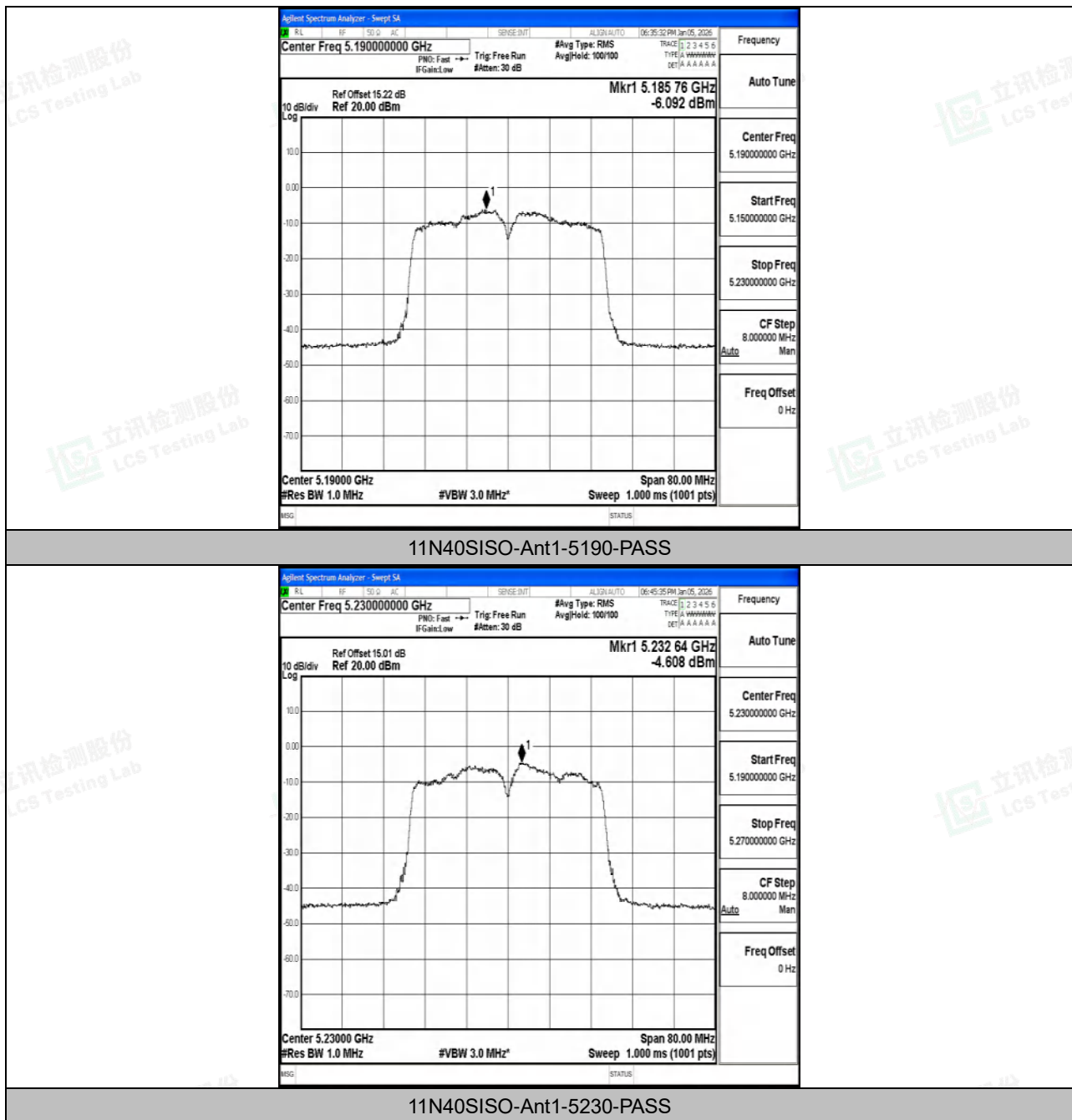


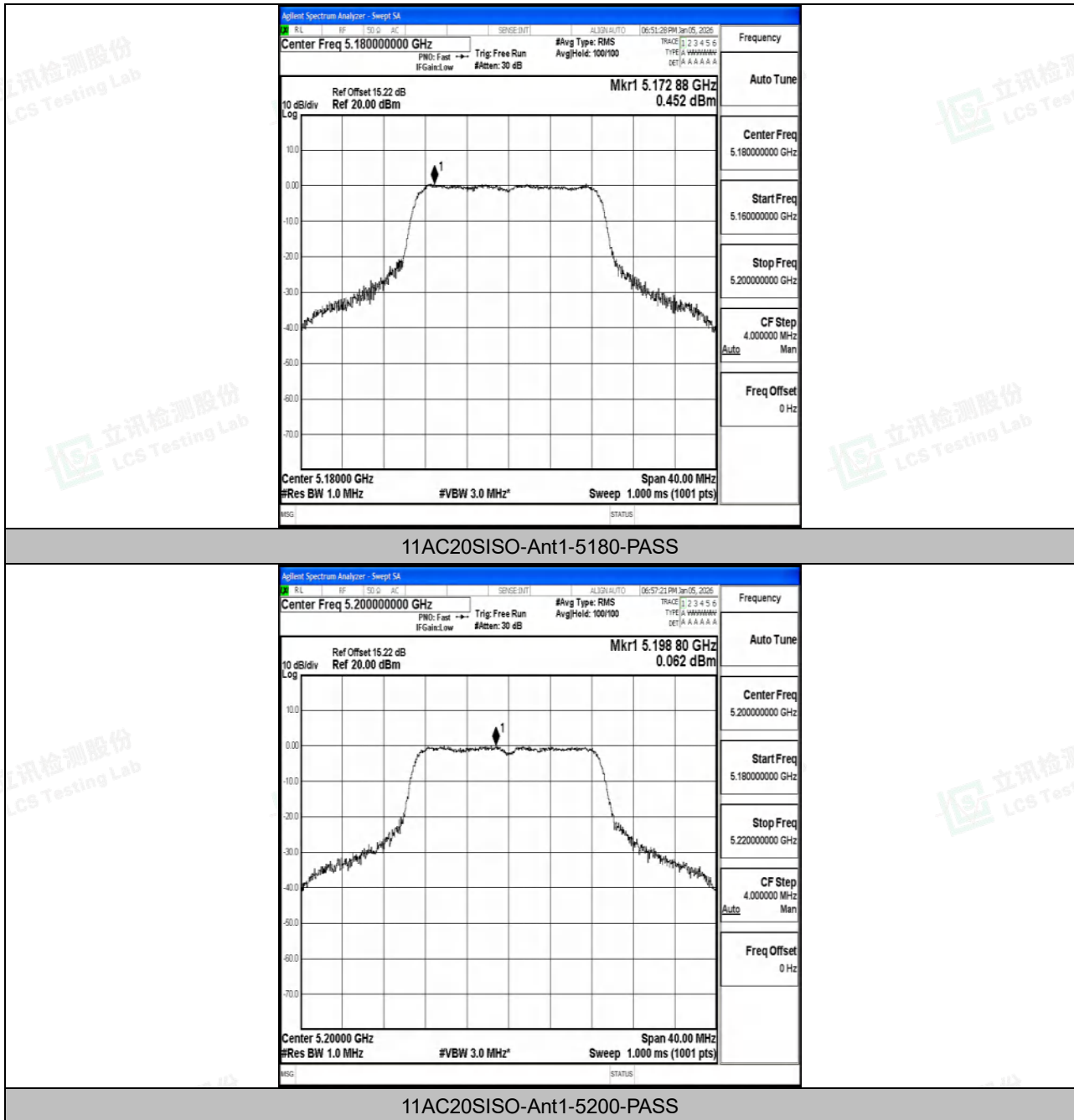
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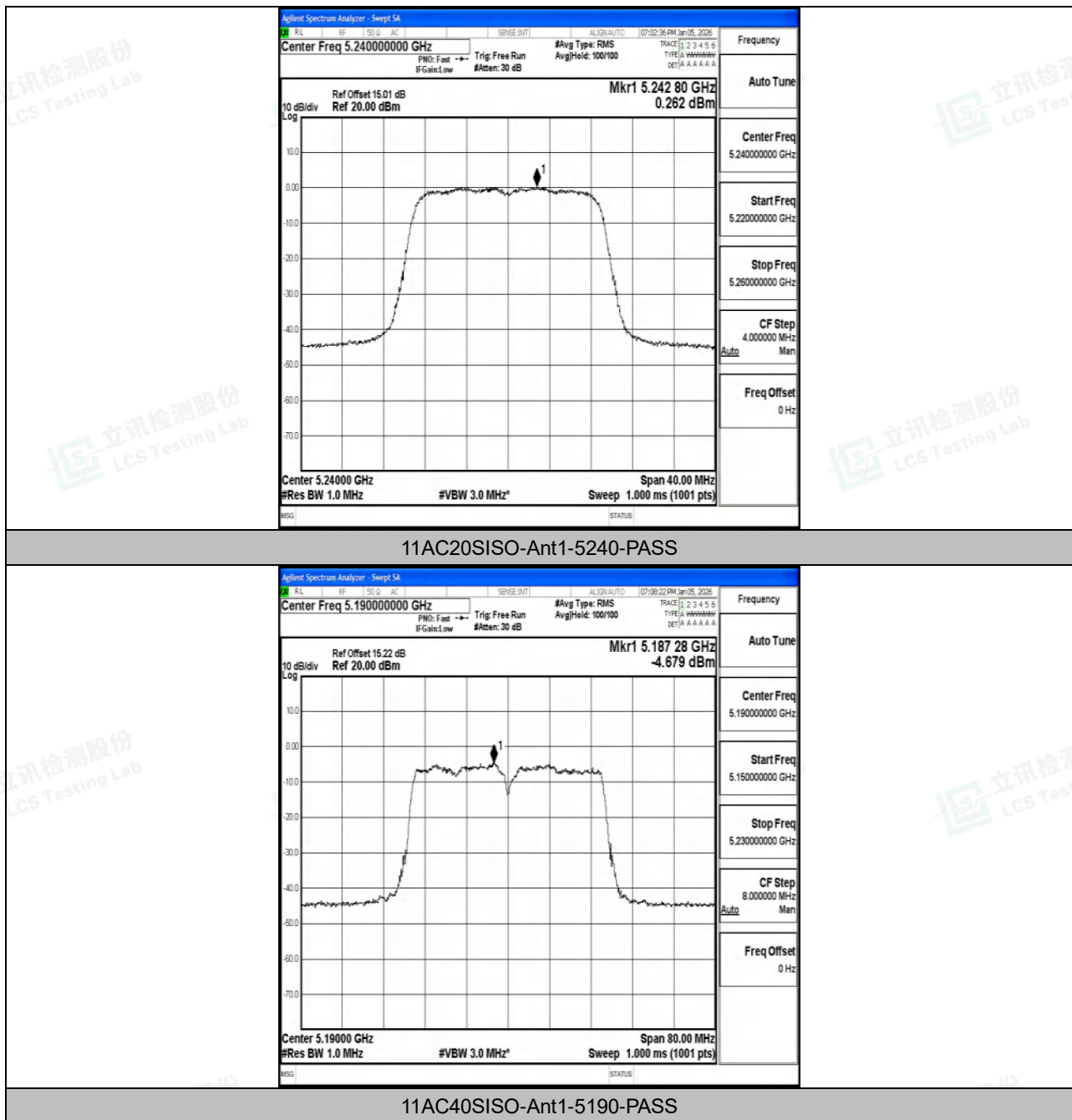
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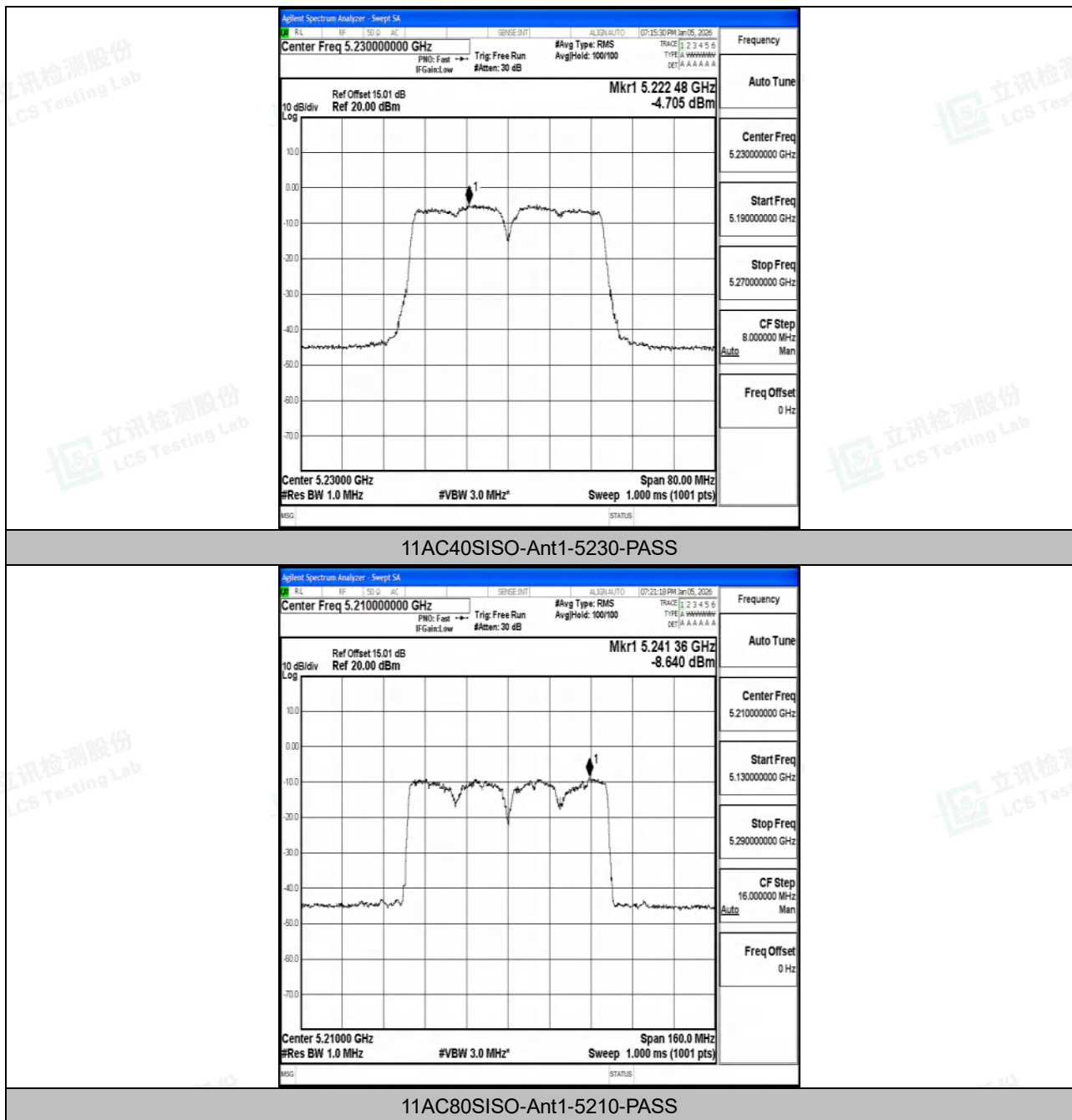
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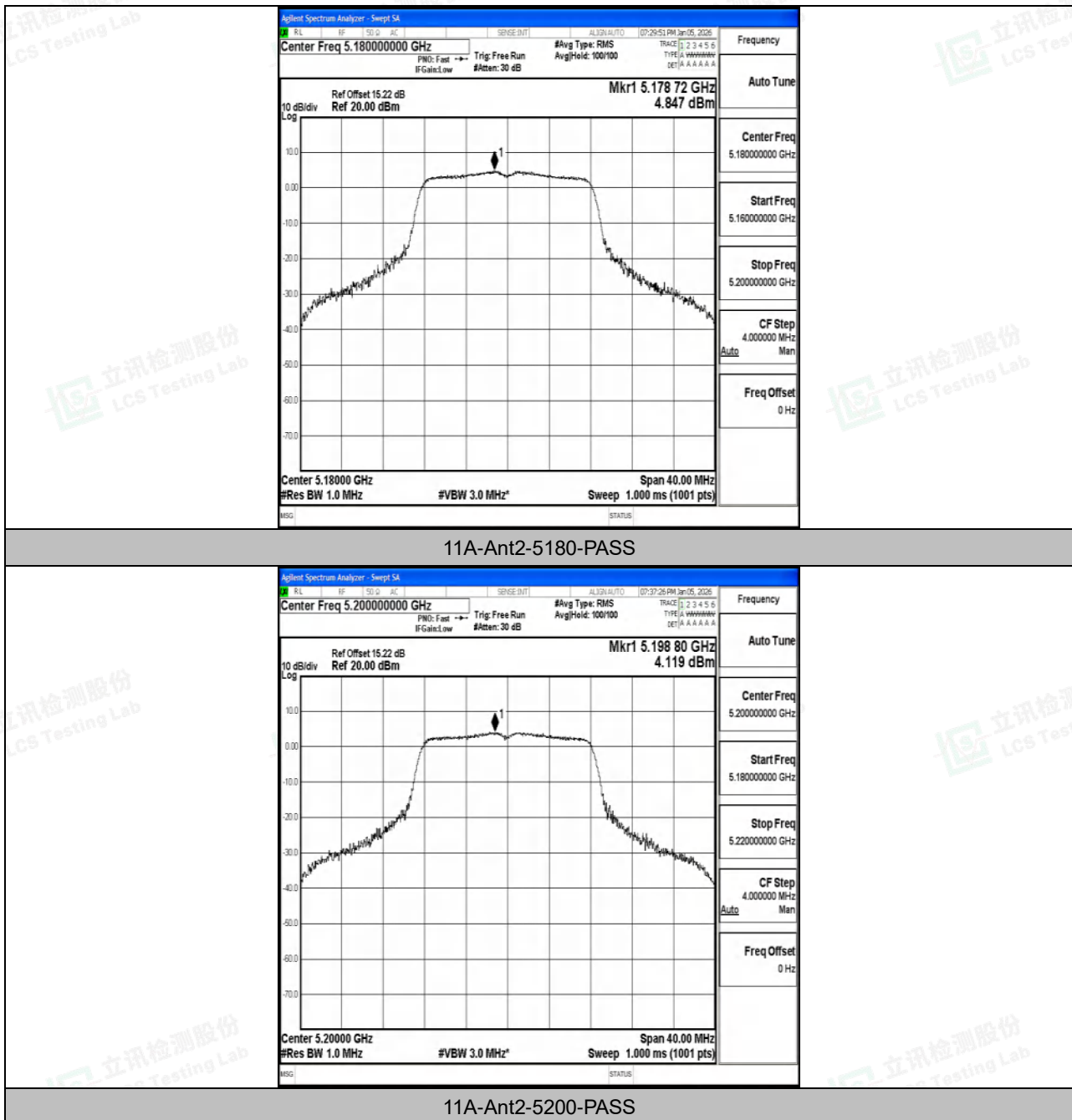
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Test Graphs

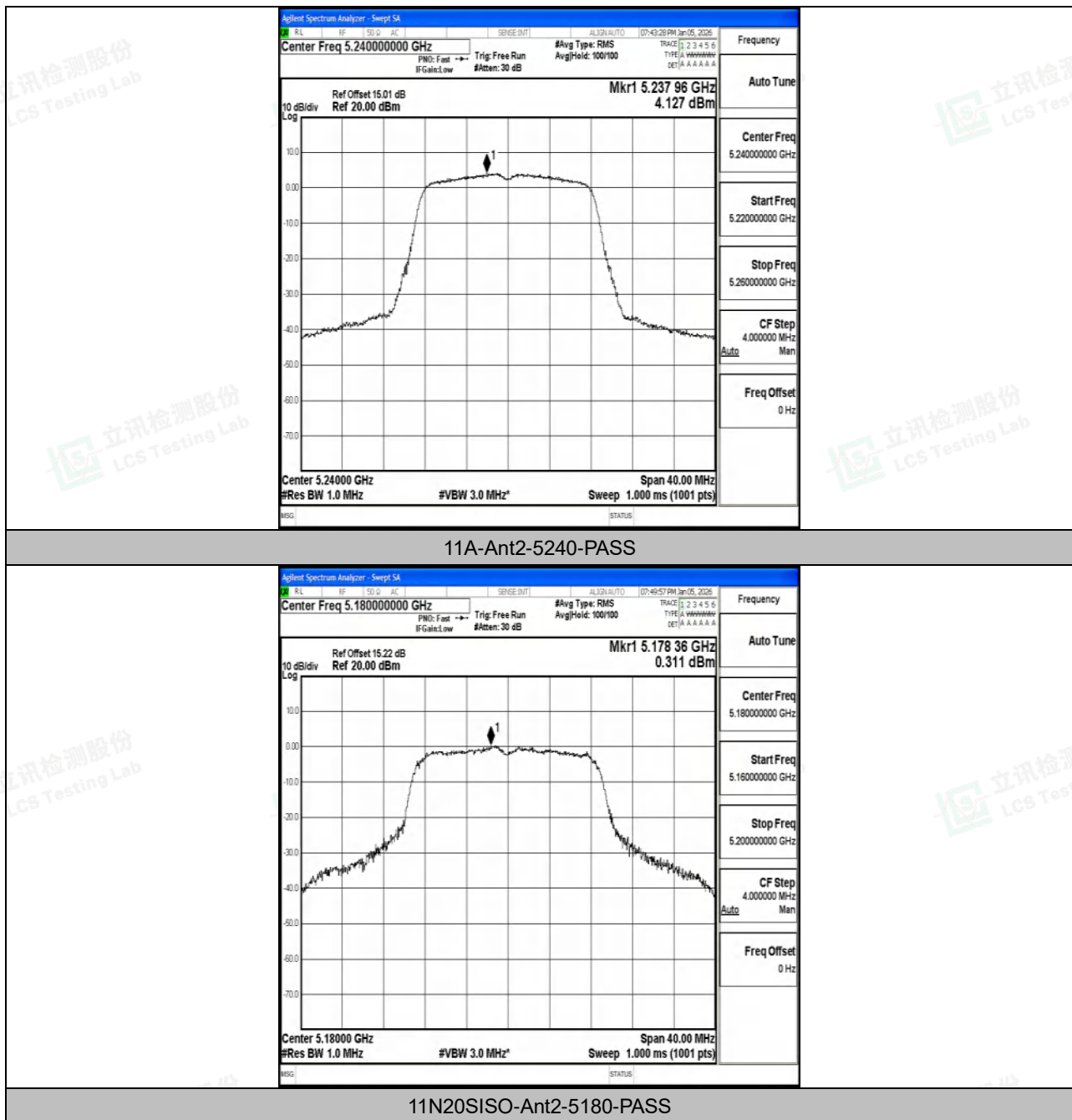


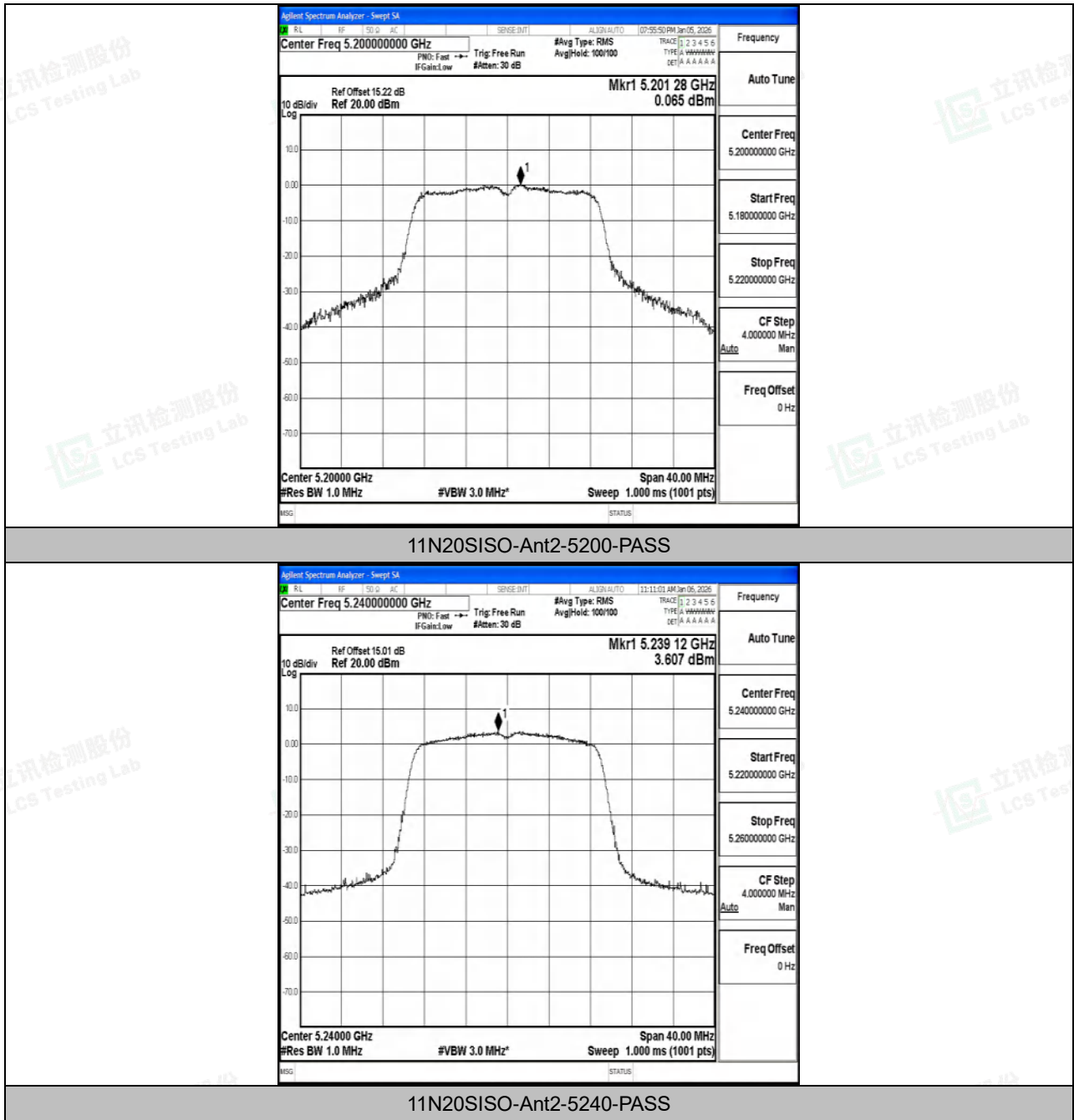
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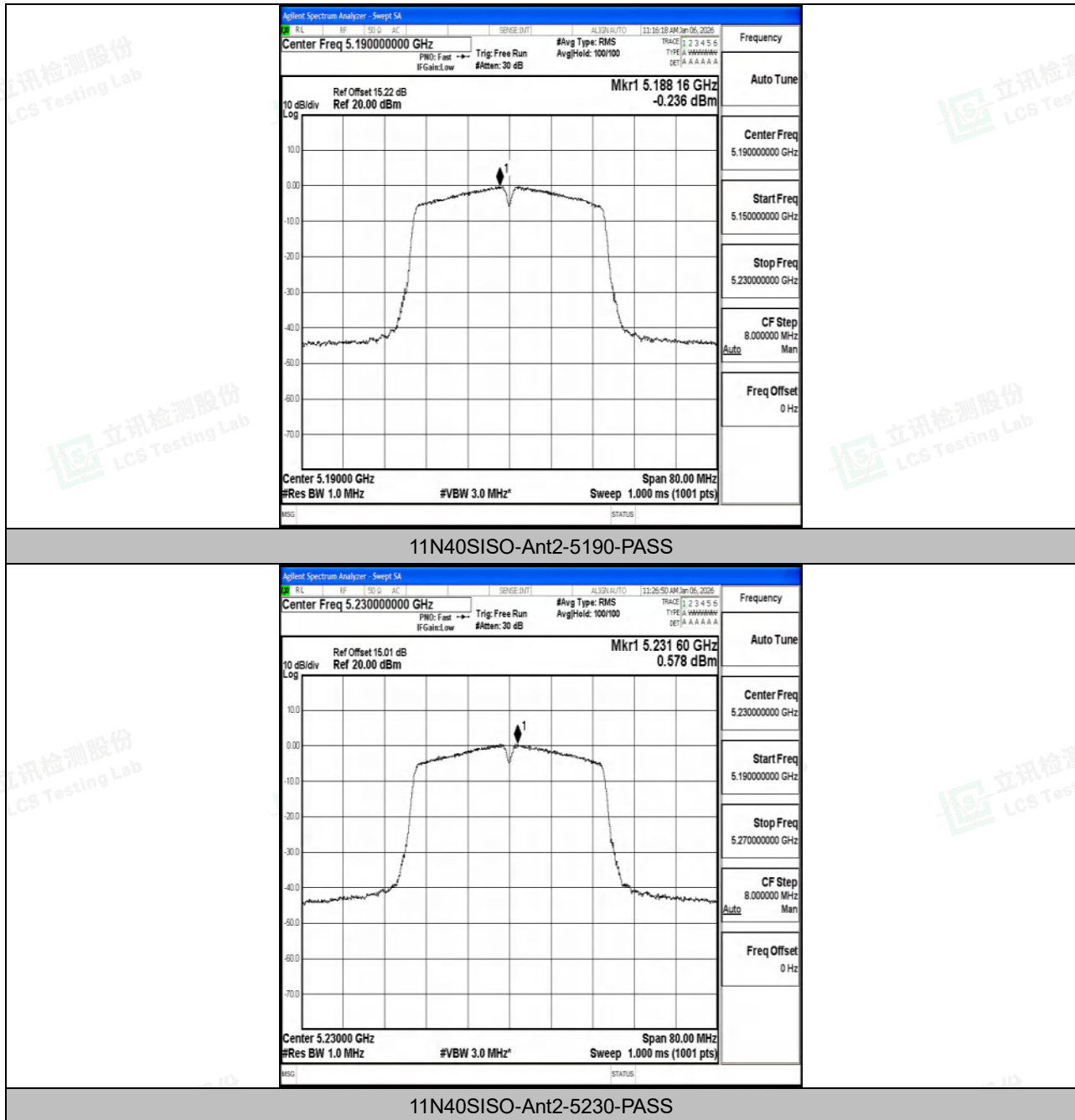
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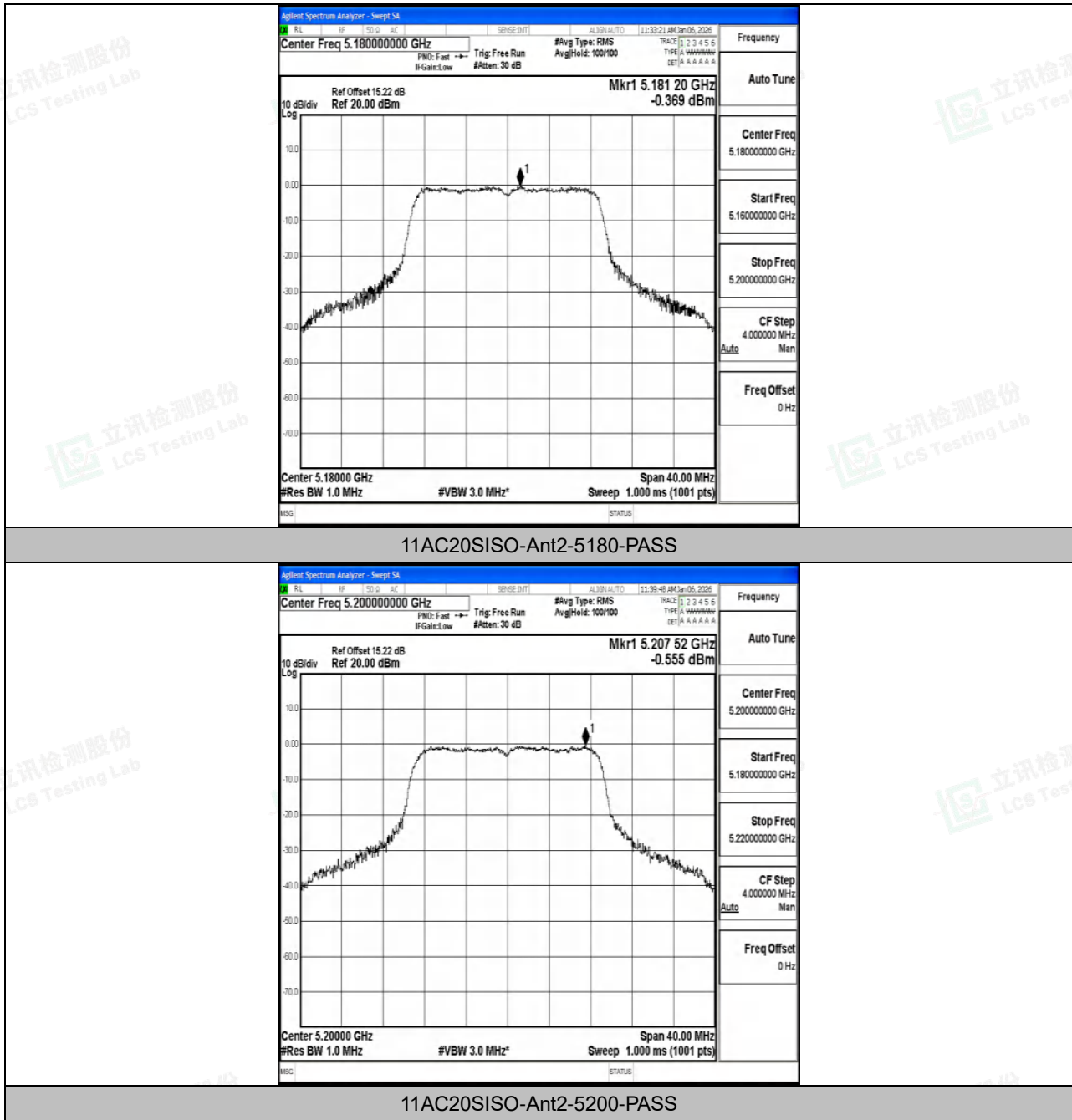
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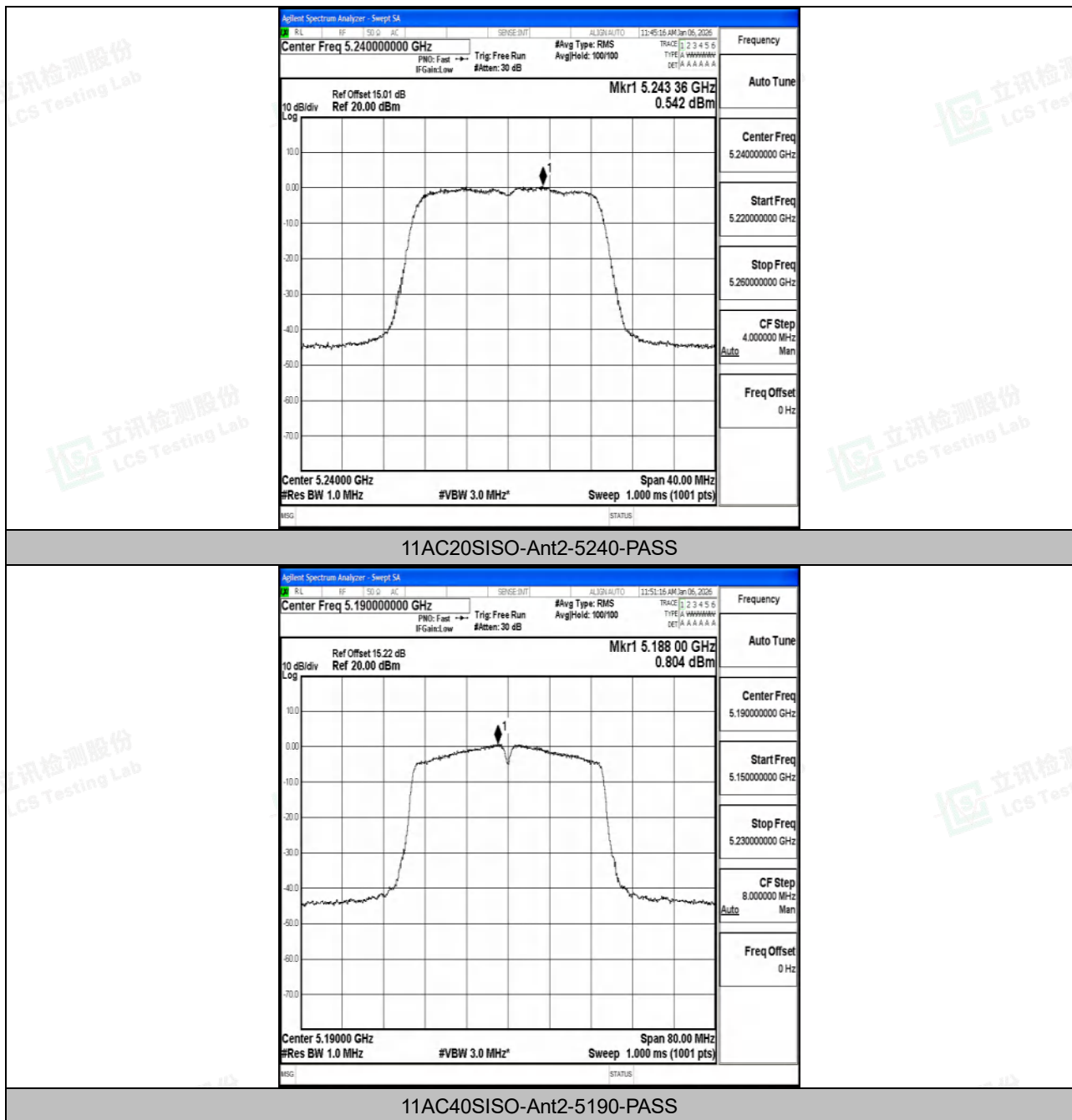


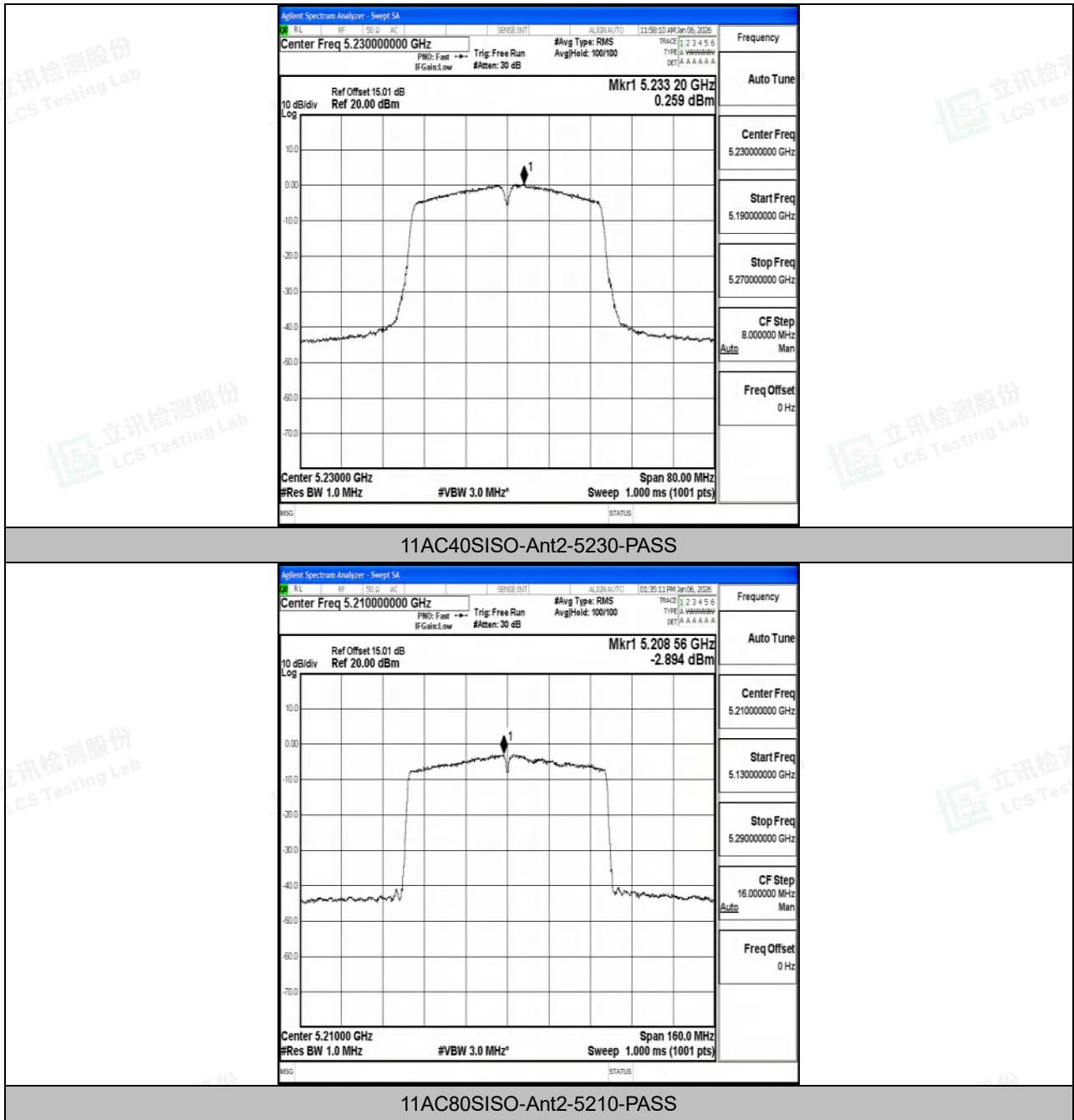
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D.4 Emissions in Restricted Bands

Test Result

TestMode	Antenna	Channel	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	Low	5180	Peak	4500.000	-46.32	≤-21.20	48.88	≤74	PASS
11A	Ant1	Low	5180	Peak	5150.000	-39.49	≤-21.20	55.71	≤74	PASS
11A	Ant1	Low	5180	Peak	5106.900	-38.73	≤-21.20	56.47	≤74	PASS
11A	Ant1	Low	5180	AV	4500.000	-52.72	≤-41.20	42.48	≤54	PASS
11A	Ant1	Low	5180	AV	5150.000	-45.85	≤-41.20	49.35	≤54	PASS
11A	Ant1	Low	5180	AV	5149.600	-45.8	≤-41.20	49.40	≤54	PASS
11A	Ant1	High	5240	Peak	5350.000	-40.92	≤-21.20	54.28	≤74	PASS
11A	Ant1	High	5240	Peak	5460.000	-44.83	≤-21.20	50.37	≤74	PASS
11A	Ant1	High	5240	Peak	5361.840	-39.5	≤-21.20	55.70	≤74	PASS
11A	Ant1	High	5240	AV	5350.000	-50.45	≤-41.20	44.75	≤54	PASS
11A	Ant1	High	5240	AV	5460.000	-52.22	≤-41.20	42.98	≤54	PASS
11A	Ant1	High	5240	AV	5350.080	-50.45	≤-41.20	44.75	≤54	PASS
11N20SISO	Ant1	Low	5180	Peak	4500.000	-46.24	≤-21.20	48.96	≤74	PASS
11N20SISO	Ant1	Low	5180	Peak	5150.000	-41.83	≤-21.20	53.37	≤74	PASS
11N20SISO	Ant1	Low	5180	Peak	5141.900	-39.84	≤-21.20	55.36	≤74	PASS
11N20SISO	Ant1	Low	5180	AV	4500.000	-51.25	≤-41.20	43.95	≤54	PASS
11N20SISO	Ant1	Low	5180	AV	5150.000	-46.35	≤-41.20	48.85	≤54	PASS
11N20SISO	Ant1	Low	5180	AV	5146.800	-45.74	≤-41.20	49.46	≤54	PASS
11N20SISO	Ant1	High	5240	Peak	5350.000	-44.28	≤-21.20	50.92	≤74	PASS
11N20SISO	Ant1	High	5240	Peak	5460.000	-45.83	≤-21.20	49.37	≤74	PASS
11N20SISO	Ant1	High	5240	Peak	5435.040	-42.61	≤-21.20	52.59	≤74	PASS
11N20SISO	Ant1	High	5240	AV	5350.000	-49.91	≤-41.20	45.29	≤54	PASS
11N20SISO	Ant1	High	5240	AV	5460.000	-51.47	≤-41.20	43.73	≤54	PASS
11N20SISO	Ant1	High	5240	AV	5352.480	-49.6	≤-41.20	45.60	≤54	PASS
11N40SISO	Ant1	Low	5190	Peak	4500.000	-45.31	≤-21.20	49.89	≤74	PASS
11N40SISO	Ant1	Low	5190	Peak	5150.000	-42.2	≤-21.20	53.00	≤74	PASS
11N40SISO	Ant1	Low	5190	Peak	5144.000	-40.29	≤-21.20	54.91	≤74	PASS
11N40SISO	Ant1	Low	5190	AV	4500.000	-50.72	≤-41.20	44.48	≤54	PASS
11N40SISO	Ant1	Low	5190	AV	5150.000	-46.45	≤-41.20	48.75	≤54	PASS
11N40SISO	Ant1	Low	5190	AV	5147.500	-45.81	≤-41.20	49.39	≤54	PASS
11N40SISO	Ant1	High	5230	Peak	5350.000	-45.22	≤-21.20	49.98	≤74	PASS
11N40SISO	Ant1	High	5230	Peak	5460.000	-46.21	≤-21.20	48.99	≤74	PASS
11N40SISO	Ant1	High	5230	Peak	5365.620	-41.84	≤-21.20	53.36	≤74	PASS
11N40SISO	Ant1	High	5230	AV	5350.000	-50.58	≤-41.20	44.62	≤54	PASS
11N40SISO	Ant1	High	5230	AV	5460.000	-51.04	≤-41.20	44.16	≤54	PASS
11N40SISO	Ant1	High	5230	AV	5383.820	-49.65	≤-41.20	45.55	≤54	PASS
11AC20SISO	Ant1	Low	5180	Peak	4500.000	-46.54	≤-21.20	48.66	≤74	PASS



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11AC20SISO	Ant1	Low	5180	Peak	5150.000	-41.68	≤-21.20	53.52	≤74	PASS
11AC20SISO	Ant1	Low	5180	Peak	5132.800	-39.04	≤-21.20	56.16	≤74	PASS
11AC20SISO	Ant1	Low	5180	AV	4500.000	-51.67	≤-41.20	43.53	≤54	PASS
11AC20SISO	Ant1	Low	5180	AV	5150.000	-46.08	≤-41.20	49.12	≤54	PASS
11AC20SISO	Ant1	Low	5180	AV	5148.900	-46.15	≤-41.20	49.05	≤54	PASS
11AC20SISO	Ant1	High	5240	Peak	5350.000	-44.76	≤-21.20	50.44	≤74	PASS
11AC20SISO	Ant1	High	5240	Peak	5460.000	-45.76	≤-21.20	49.44	≤74	PASS
11AC20SISO	Ant1	High	5240	Peak	5351.760	-41.86	≤-21.20	53.34	≤74	PASS
11AC20SISO	Ant1	High	5240	AV	5350.000	-50.74	≤-41.20	44.46	≤54	PASS
11AC20SISO	Ant1	High	5240	AV	5460.000	-51.39	≤-41.20	43.81	≤54	PASS
11AC20SISO	Ant1	High	5240	AV	5352.960	-49.6	≤-41.20	45.60	≤54	PASS
11AC40SISO	Ant1	Low	5190	Peak	4500.000	-45.79	≤-21.20	49.41	≤74	PASS
11AC40SISO	Ant1	Low	5190	Peak	5150.000	-40.97	≤-21.20	54.23	≤74	PASS
11AC40SISO	Ant1	Low	5190	Peak	5146.100	-39.66	≤-21.20	55.54	≤74	PASS
11AC40SISO	Ant1	Low	5190	AV	4500.000	-50.89	≤-41.20	44.31	≤54	PASS
11AC40SISO	Ant1	Low	5190	AV	5150.000	-45.56	≤-41.20	49.64	≤54	PASS
11AC40SISO	Ant1	Low	5190	AV	5147.500	-45.25	≤-41.20	49.95	≤54	PASS
11AC40SISO	Ant1	High	5230	Peak	5350.000	-43.08	≤-21.20	52.12	≤74	PASS
11AC40SISO	Ant1	High	5230	Peak	5460.000	-46.14	≤-21.20	49.06	≤74	PASS
11AC40SISO	Ant1	High	5230	Peak	5364.580	-42.68	≤-21.20	52.52	≤74	PASS
11AC40SISO	Ant1	High	5230	AV	5350.000	-50.62	≤-41.20	44.58	≤54	PASS
11AC40SISO	Ant1	High	5230	AV	5460.000	-50.79	≤-41.20	44.41	≤54	PASS
11AC40SISO	Ant1	High	5230	AV	5370.040	-49.6	≤-41.20	45.60	≤54	PASS
11AC80SISO	Ant1	Low	5210	Peak	4500.000	-45.81	≤-21.20	49.39	≤74	PASS
11AC80SISO	Ant1	Low	5210	Peak	5150.000	-39.14	≤-21.20	56.06	≤74	PASS
11AC80SISO	Ant1	Low	5210	Peak	5117.250	-35.79	≤-21.20	59.41	≤74	PASS
11AC80SISO	Ant1	High	5210	Peak	5350.000	-44.37	≤-21.20	50.83	≤74	PASS
11AC80SISO	Ant1	High	5210	Peak	5460.000	-44.69	≤-21.20	50.51	≤74	PASS
11AC80SISO	Ant1	High	5210	Peak	5452.720	-42.95	≤-21.20	52.25	≤74	PASS
11AC80SISO	Ant1	Low	5210	AV	4500.000	-50.49	≤-41.20	44.71	≤54	PASS
11AC80SISO	Ant1	Low	5210	AV	5150.000	-43.95	≤-41.20	51.25	≤54	PASS
11AC80SISO	Ant1	Low	5210	AV	5116.500	-41.96	≤-41.20	53.24	≤54	PASS
11AC80SISO	Ant1	High	5210	AV	5350.000	-50.83	≤-41.20	44.37	≤54	PASS
11AC80SISO	Ant1	High	5210	AV	5460.000	-50.37	≤-41.20	44.83	≤54	PASS
11AC80SISO	Ant1	High	5210	AV	5350.240	-49.53	≤-41.20	45.67	≤54	PASS

Note:

1. The Antenna Gain is compensated in the graph.
2. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



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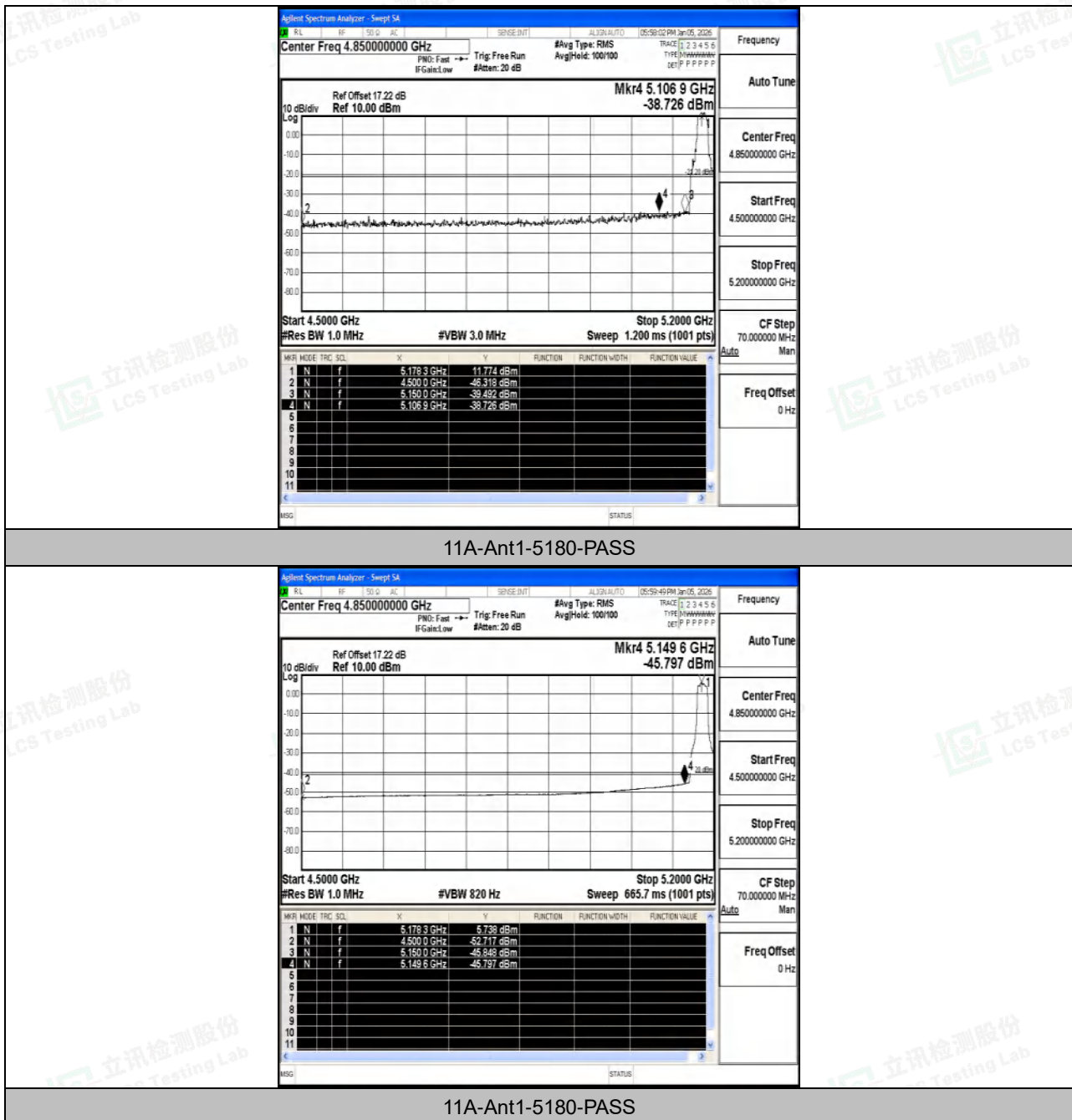
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Test Graphs

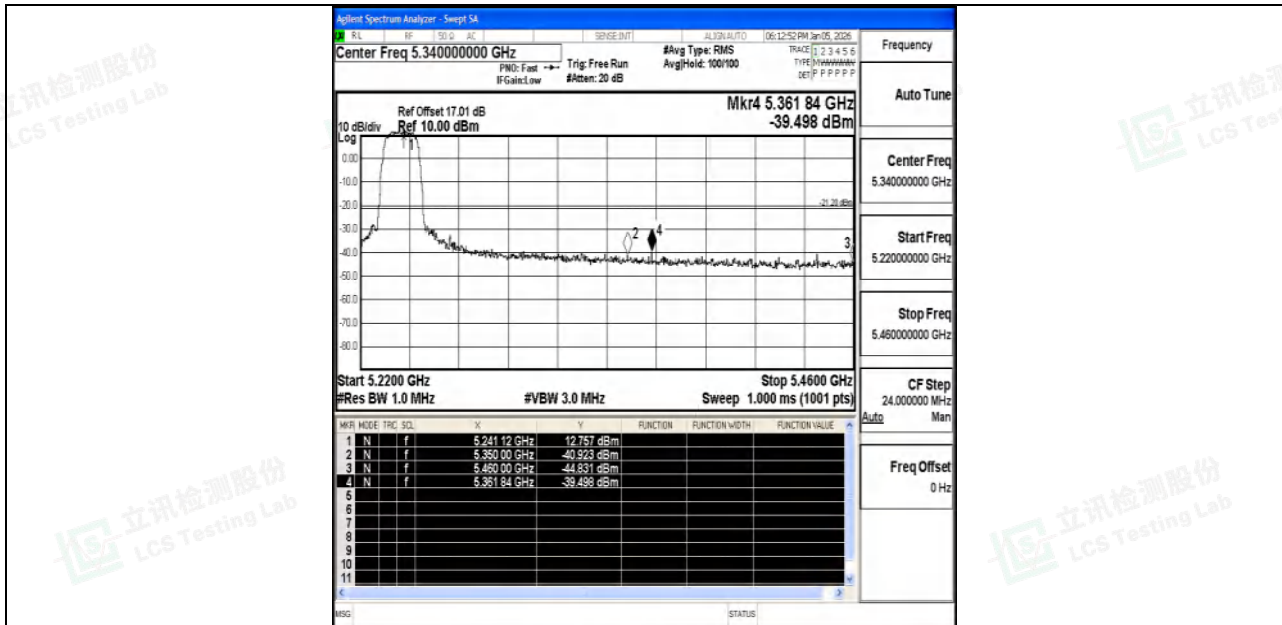


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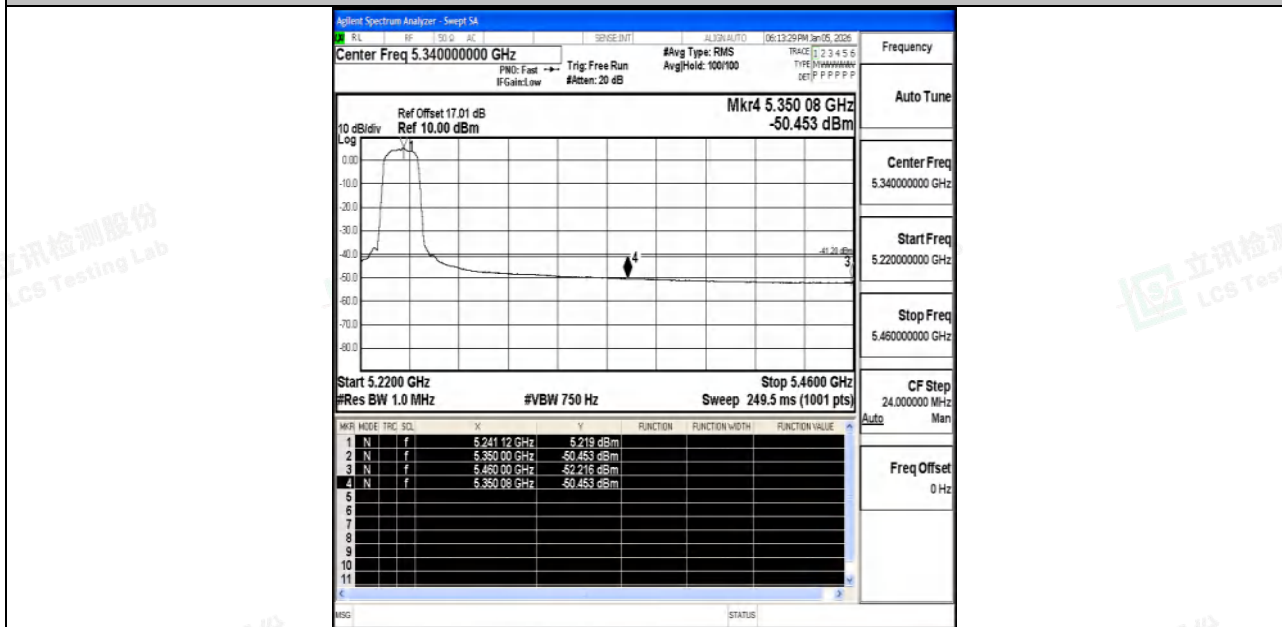
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11A-Ant1-5240-PASS



11A-Ant1-5240-PASS

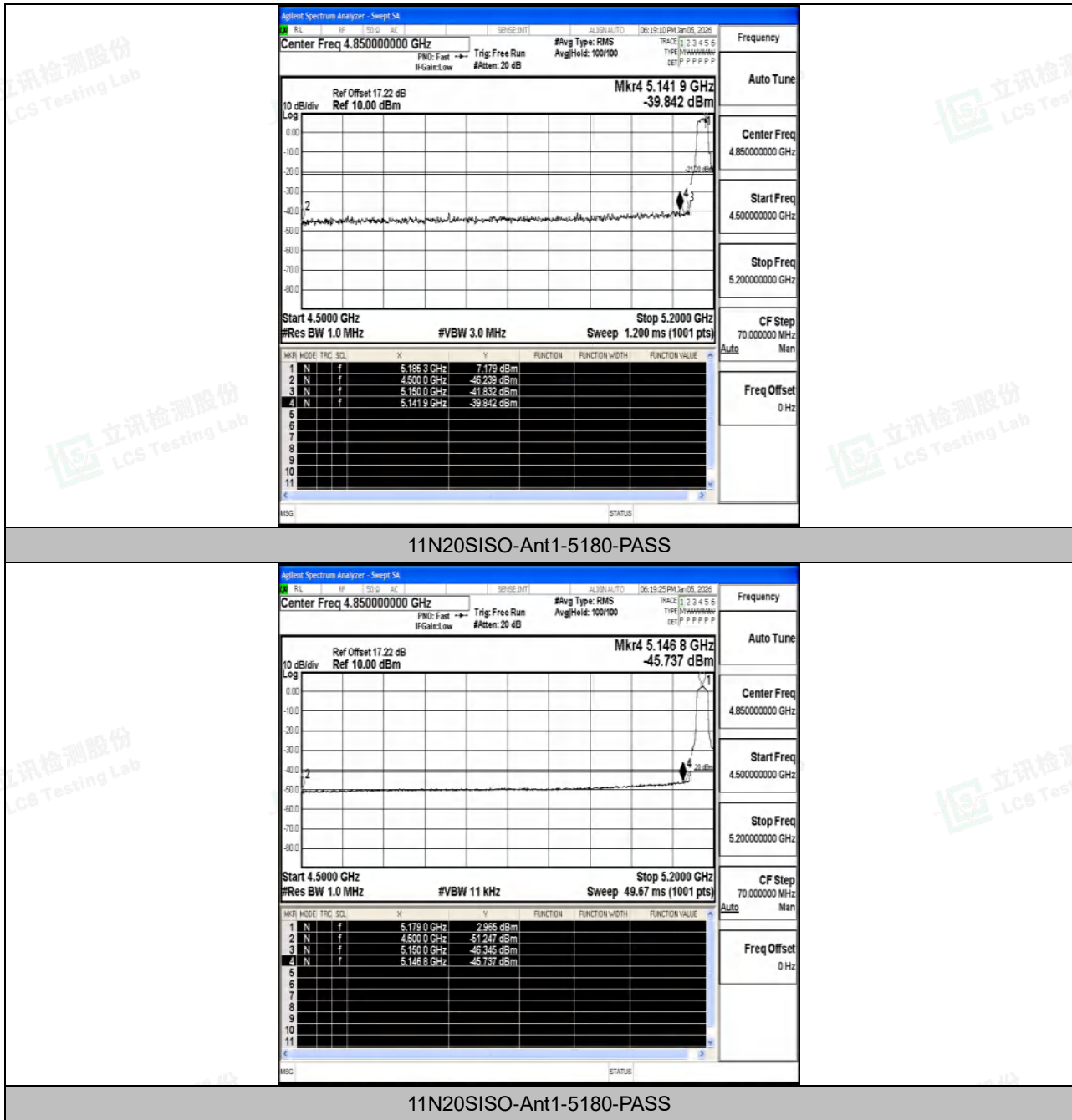


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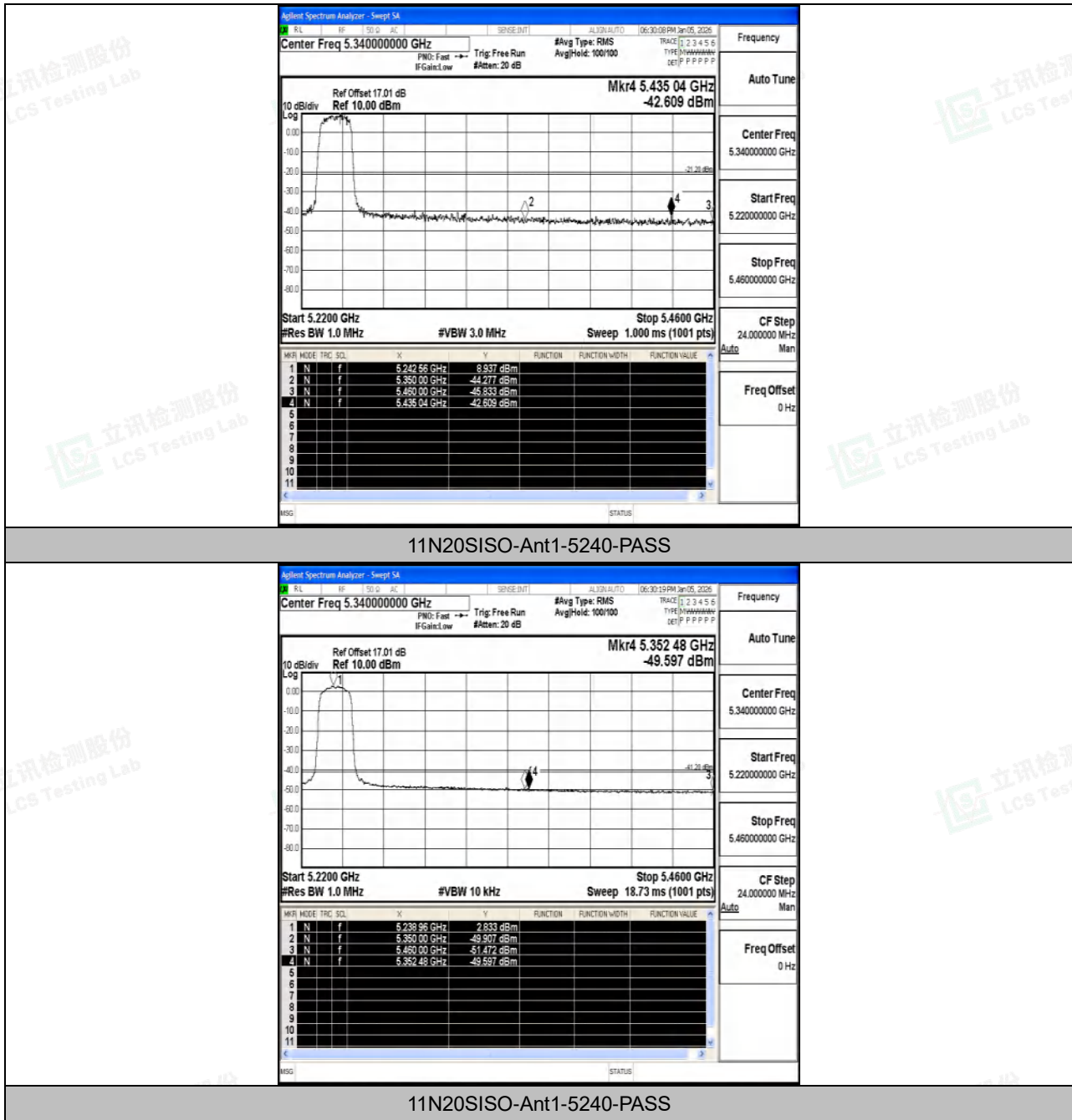


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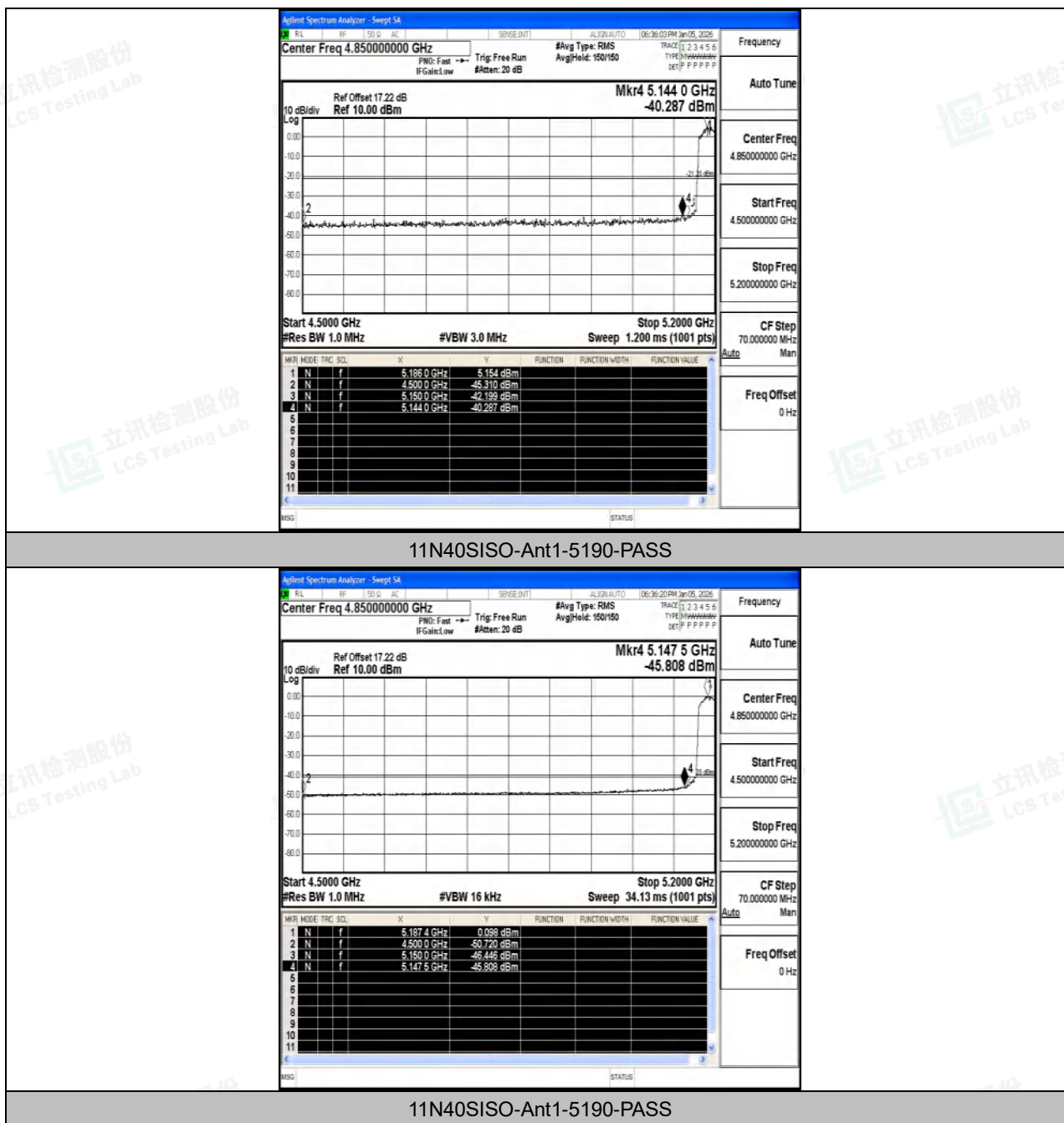


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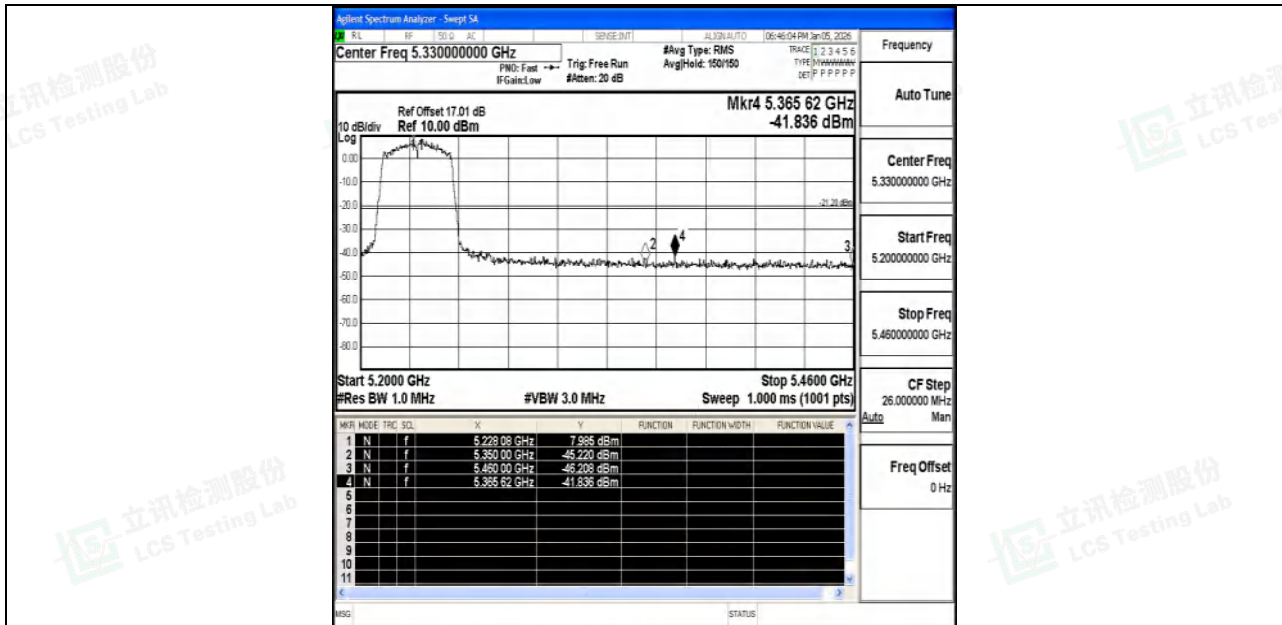


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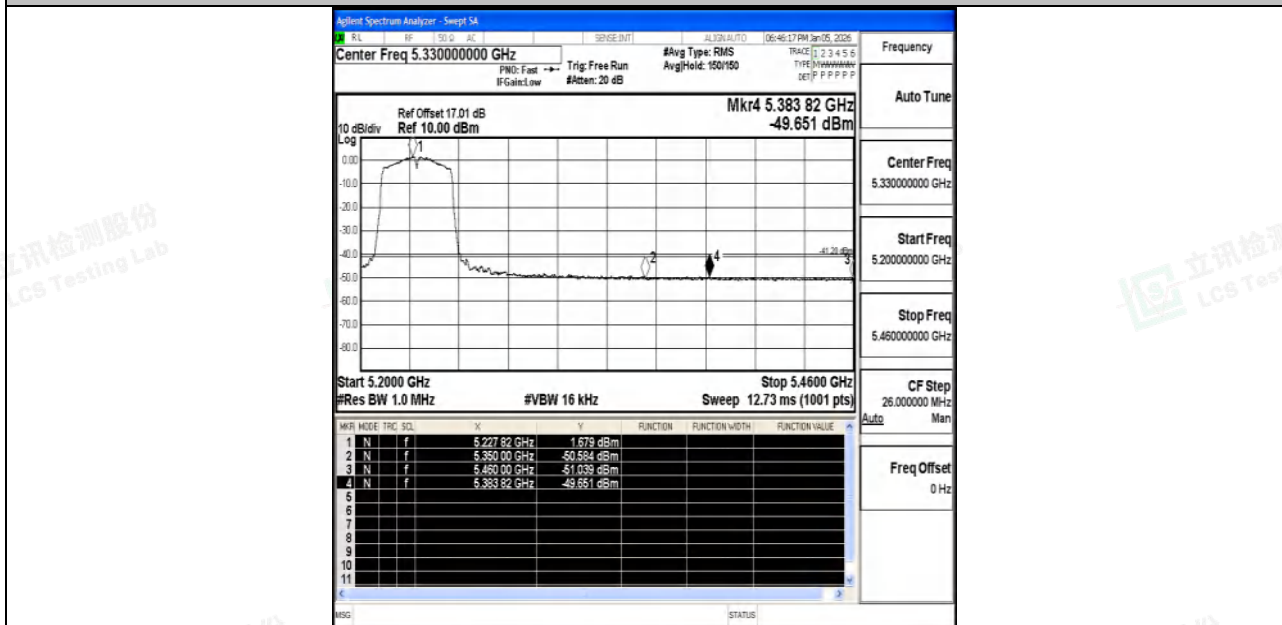
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11N40SISO-Ant1-5230-PASS



11N40SISO-Ant1-5230-PASS

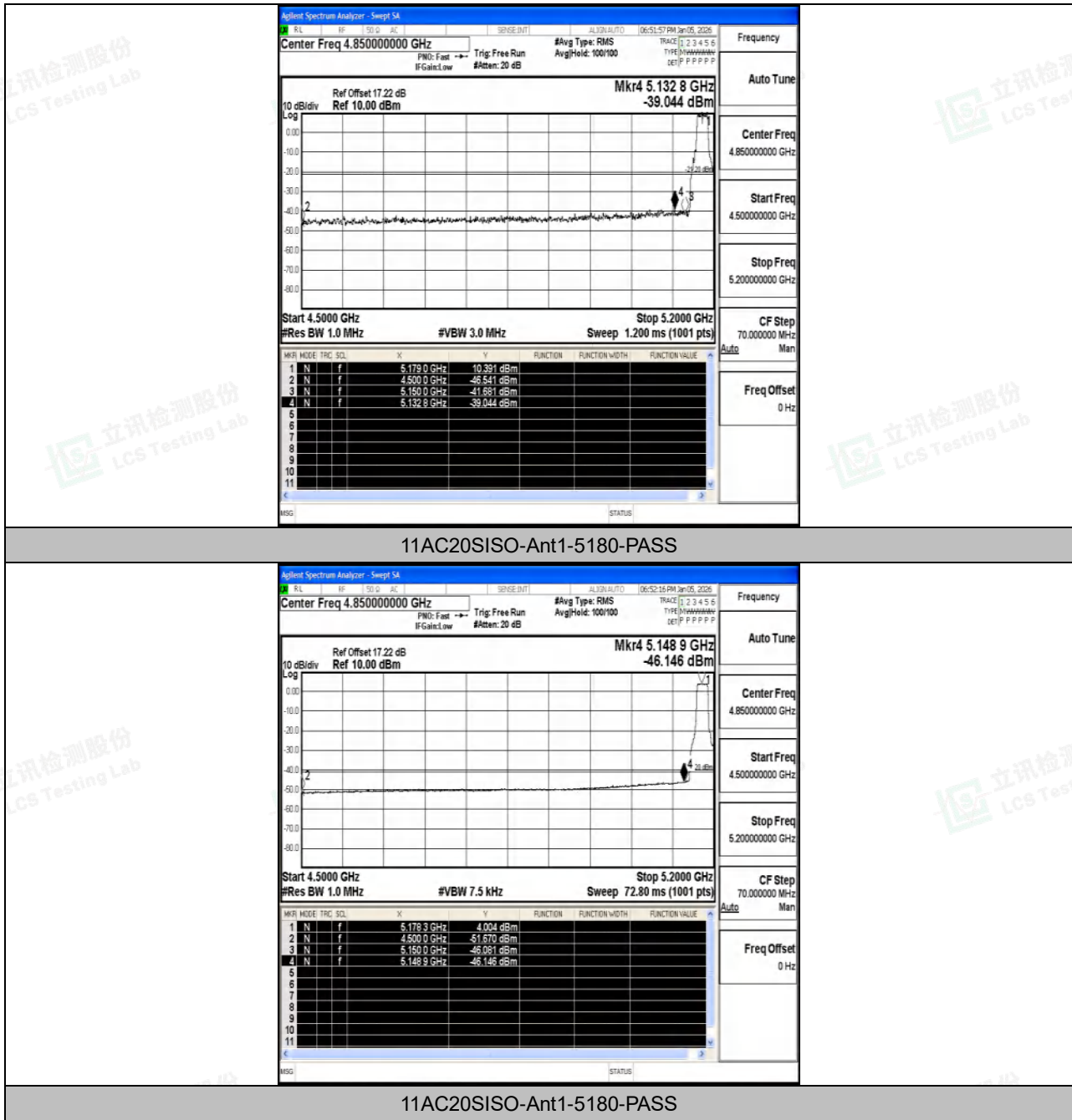


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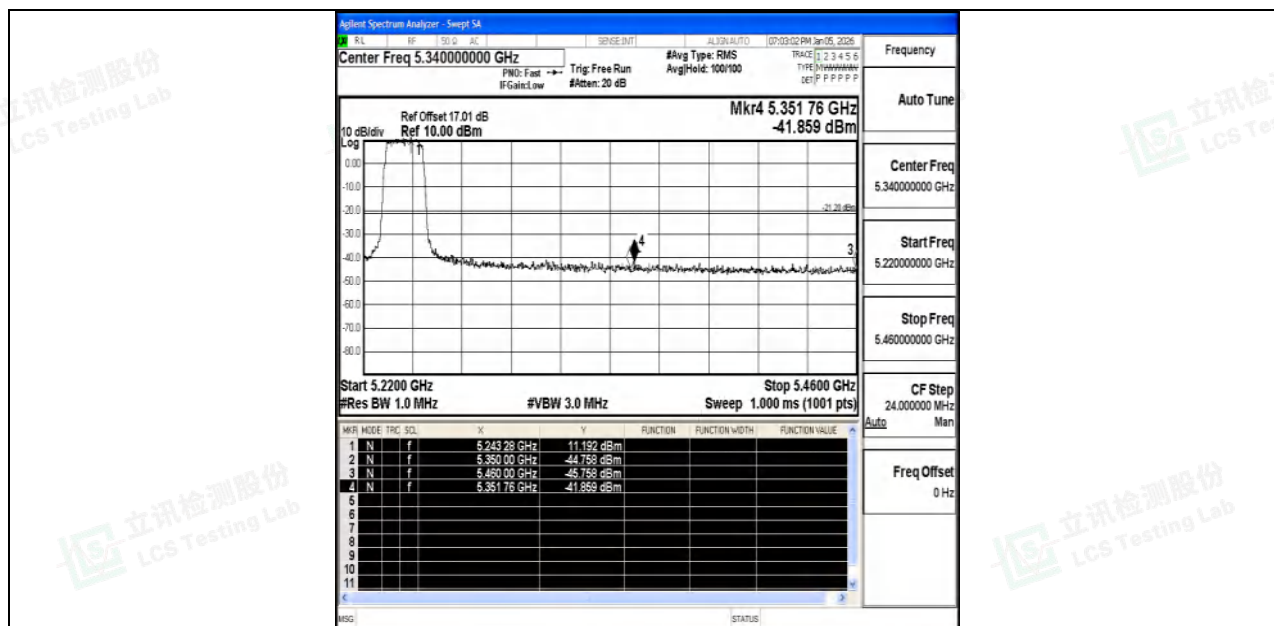


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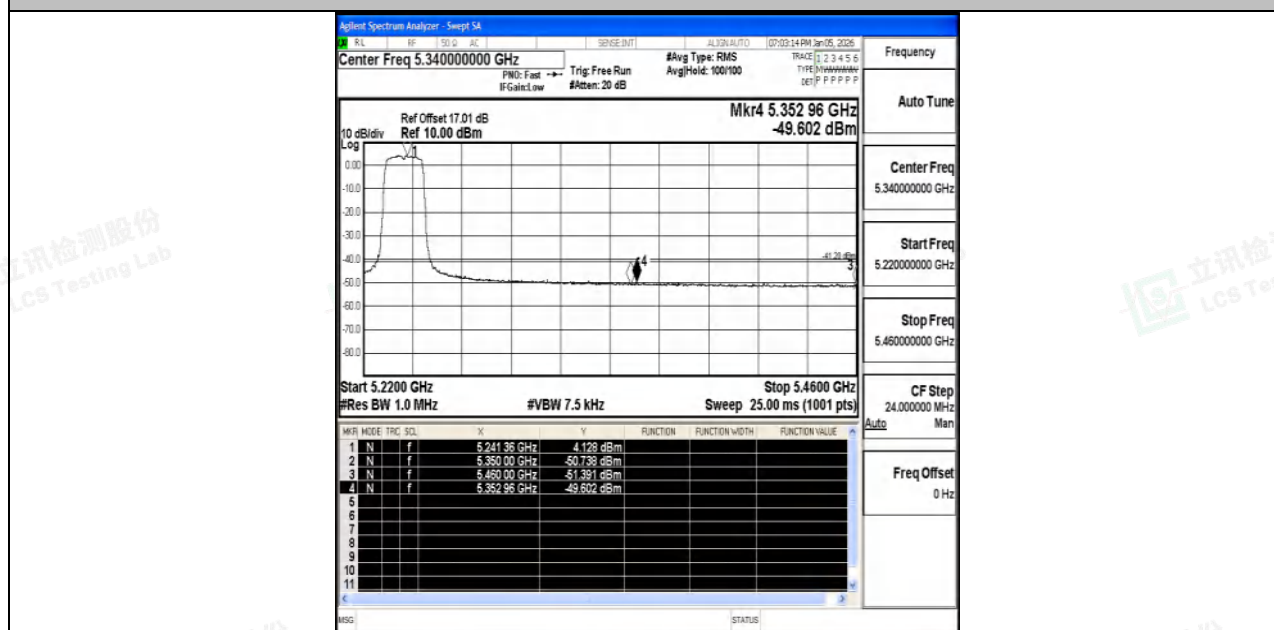
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11AC20SISO-Ant1-5240-PASS



11AC20SISO-Ant1-5240-PASS

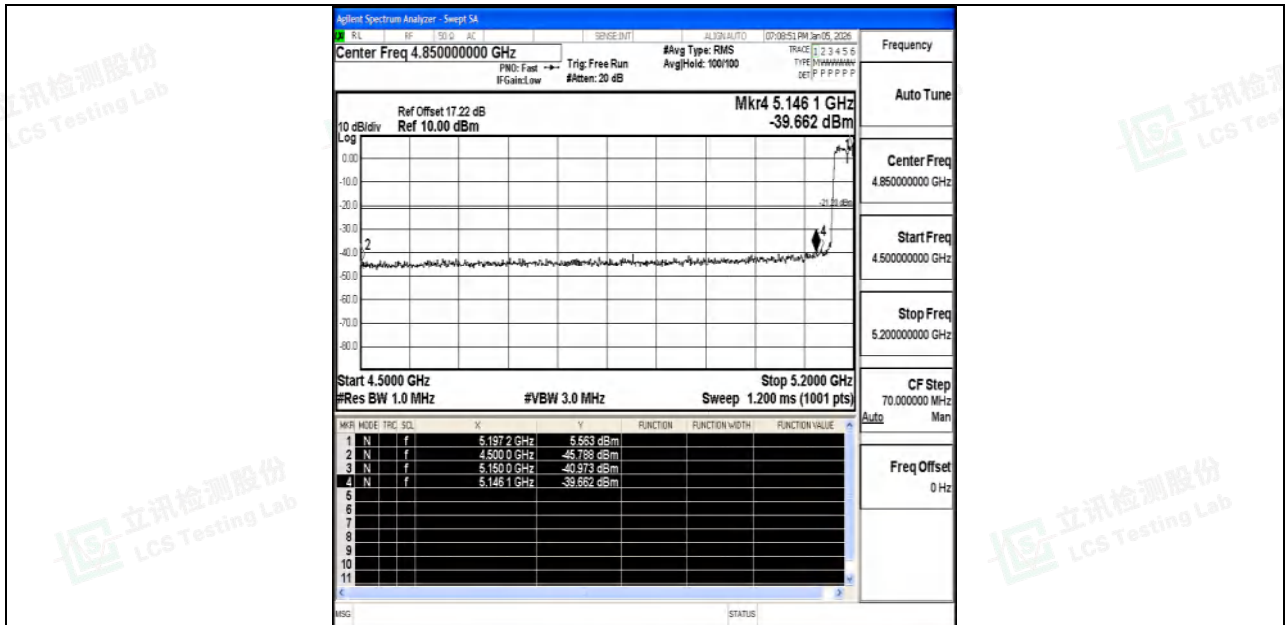


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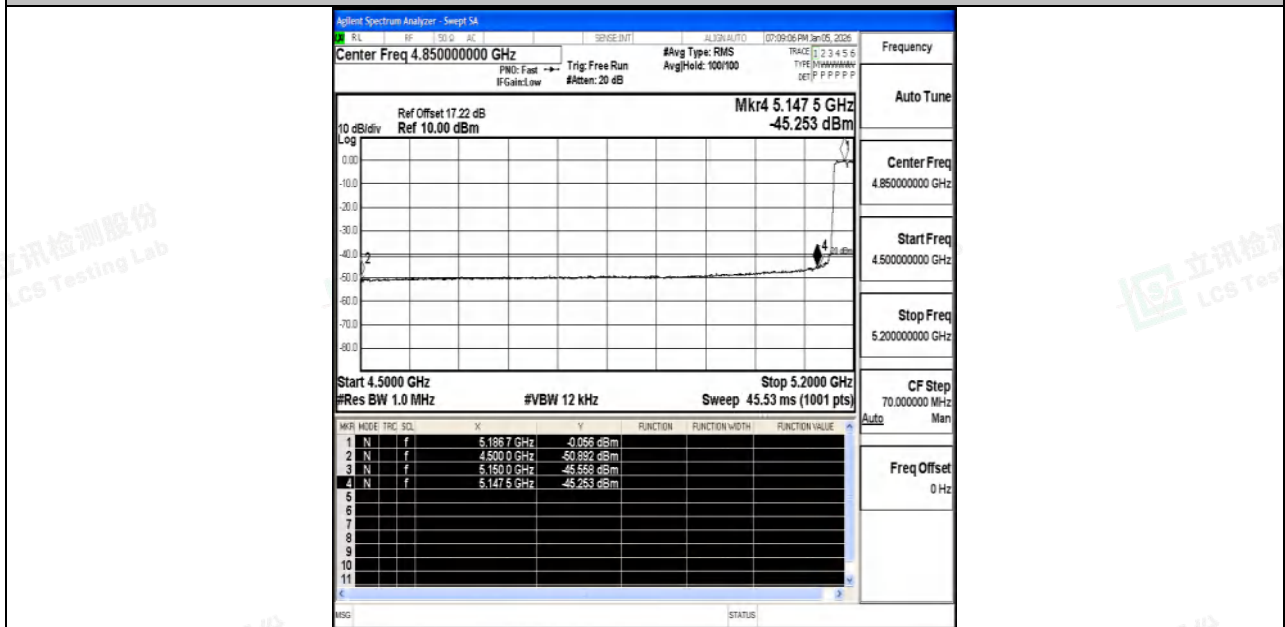
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11AC40SISO-Ant1-5190-PASS



11AC40SISO-Ant1-5190-PASS

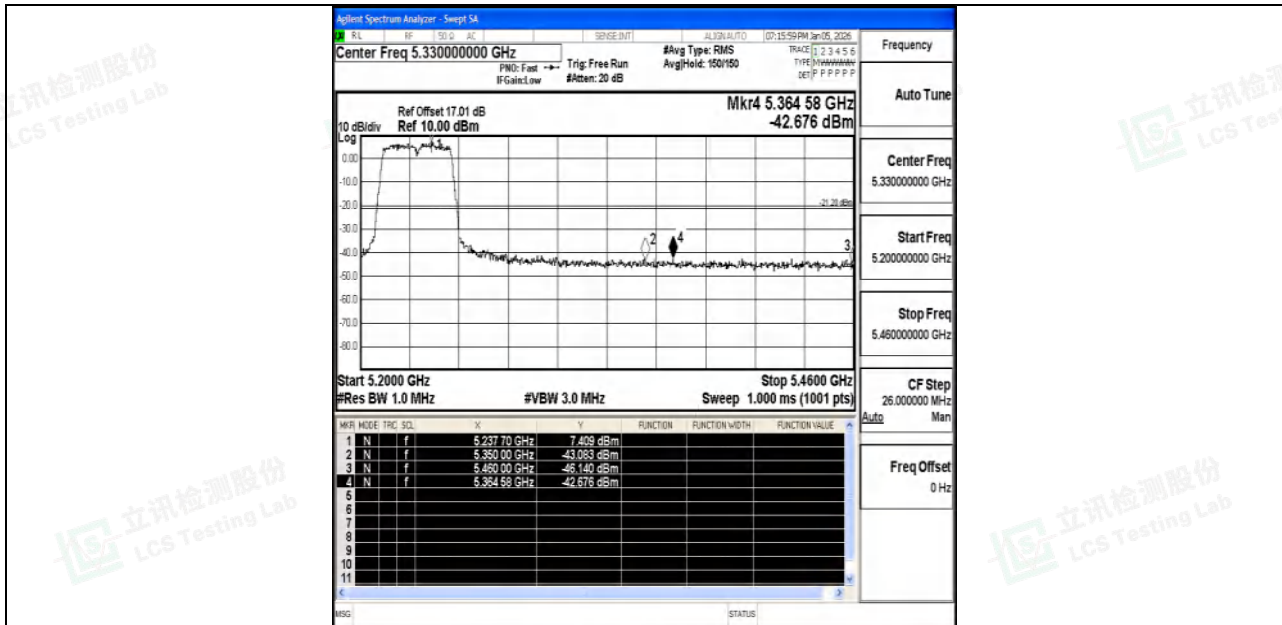


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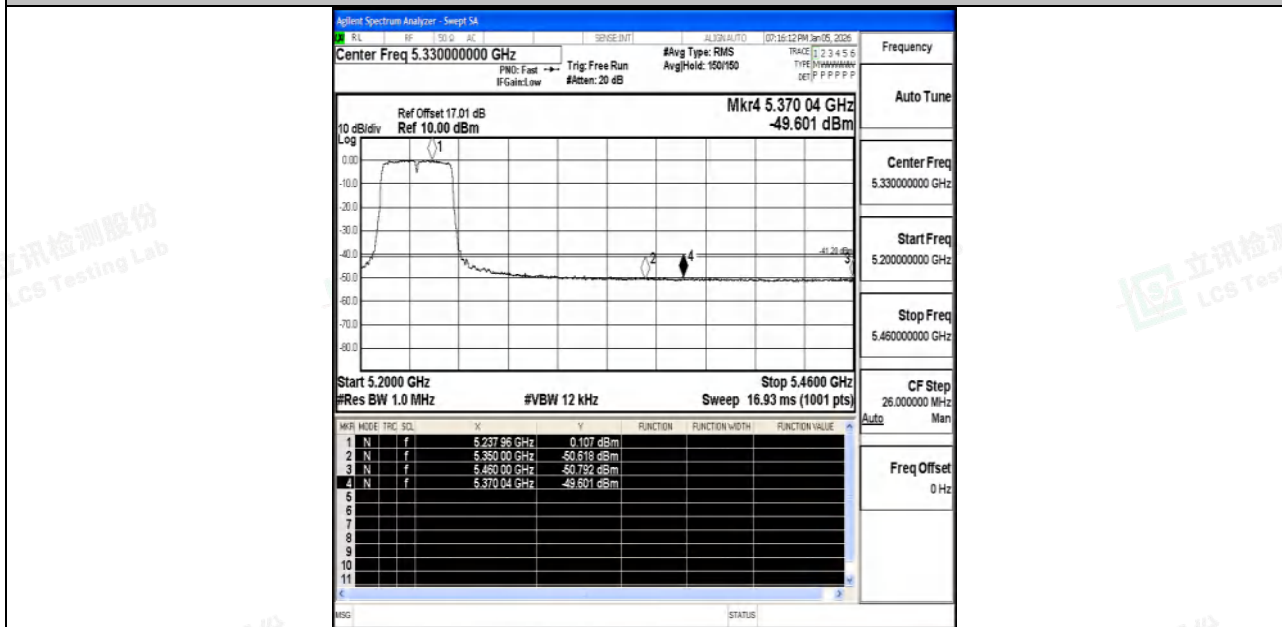
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11AC40SISO-Ant1-5230-PASS



11AC40SISO-Ant1-5230-PASS

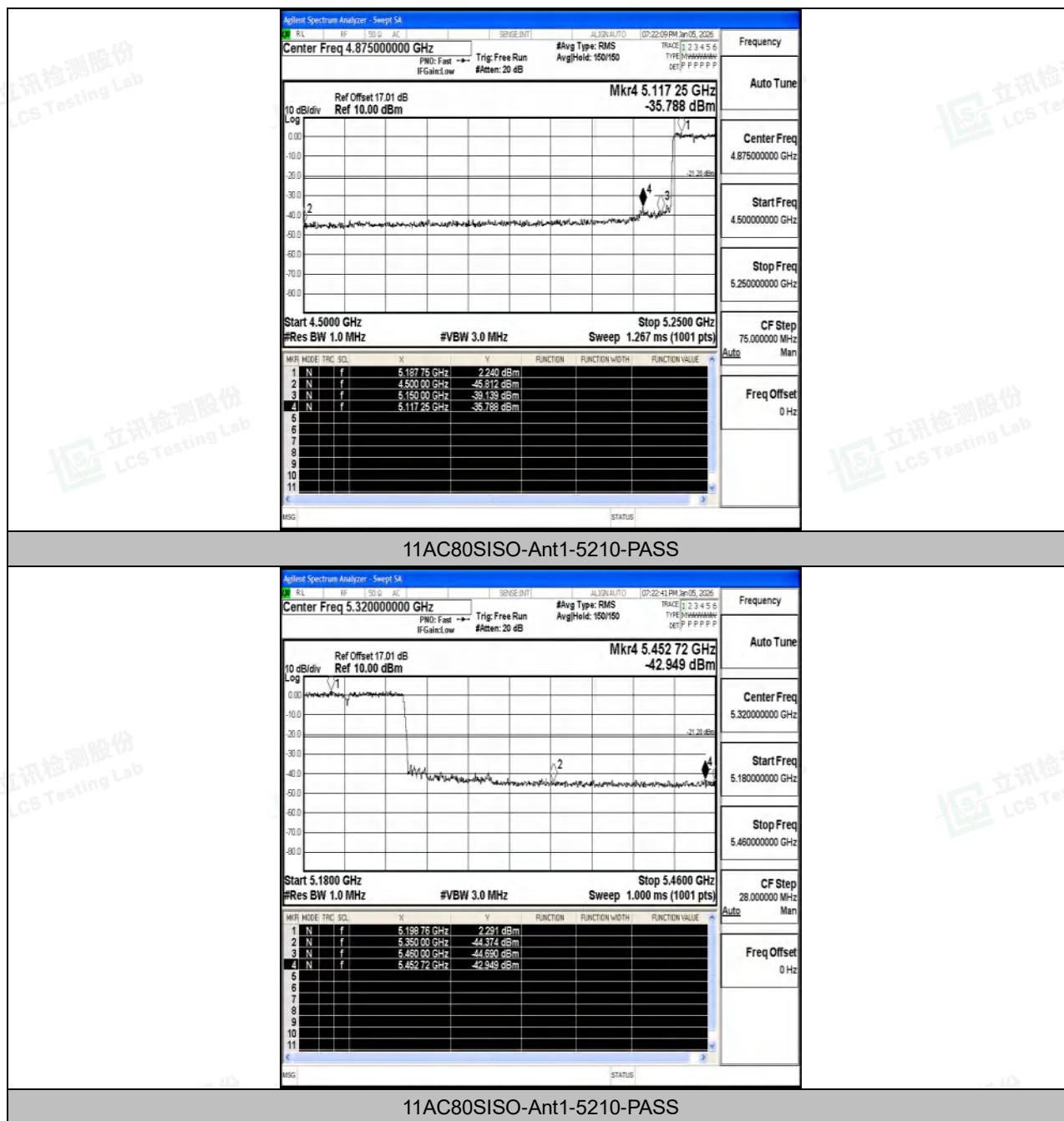


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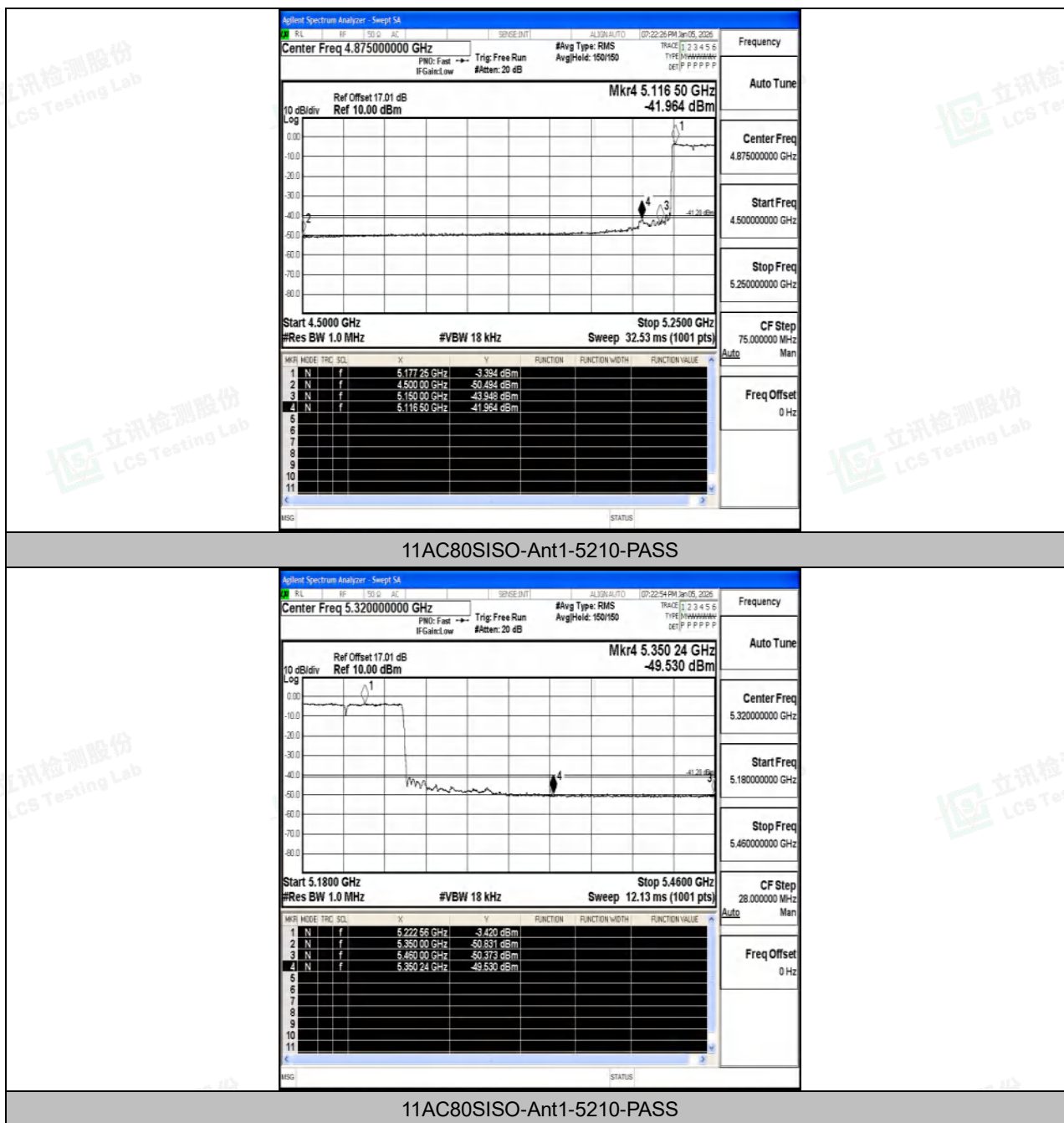


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**Test Result**

TestMode	Antenna	Channel Name	Frequency [MHz]	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant2	Low	5180	Peak	4500.000	-44.93	≤-21.20	50.27	≤74	PASS
11A	Ant2	Low	5180	Peak	5150.000	-38.85	≤-21.20	56.35	≤74	PASS
11A	Ant2	Low	5180	Peak	5128.600	-38.34	≤-21.20	56.86	≤74	PASS
11A	Ant2	Low	5180	AV	4500.000	-53.01	≤-41.20	42.19	≤54	PASS
11A	Ant2	Low	5180	AV	5150.000	-45.43	≤-41.20	49.77	≤54	PASS
11A	Ant2	Low	5180	AV	5144.700	-45.53	≤-41.20	49.67	≤54	PASS
11A	Ant2	High	5240	Peak	5350.000	-43.96	≤-21.20	51.24	≤74	PASS
11A	Ant2	High	5240	Peak	5460.000	-45.73	≤-21.20	49.47	≤74	PASS
11A	Ant2	High	5240	Peak	5361.600	-41.69	≤-21.20	53.51	≤74	PASS
11A	Ant2	High	5240	AV	5350.000	-50.88	≤-41.20	44.32	≤54	PASS
11A	Ant2	High	5240	AV	5460.000	-51.98	≤-41.20	43.22	≤54	PASS
11A	Ant2	High	5240	AV	5350.800	-50.76	≤-41.20	44.44	≤54	PASS
11N20SISO	Ant2	Low	5180	Peak	4500.000	-46.9	≤-21.20	48.30	≤74	PASS
11N20SISO	Ant2	Low	5180	Peak	5150.000	-40.79	≤-21.20	54.41	≤74	PASS
11N20SISO	Ant2	Low	5180	Peak	5118.100	-39.83	≤-21.20	55.37	≤74	PASS
11N20SISO	Ant2	Low	5180	AV	4500.000	-50.76	≤-41.20	44.44	≤54	PASS
11N20SISO	Ant2	Low	5180	AV	5150.000	-45.79	≤-41.20	49.41	≤54	PASS
11N20SISO	Ant2	Low	5180	AV	5144.700	-45.71	≤-41.20	49.49	≤54	PASS
11N20SISO	Ant2	High	5240	Peak	5350.000	-44.53	≤-21.20	50.67	≤74	PASS
11N20SISO	Ant2	High	5240	Peak	5460.000	-46.05	≤-21.20	49.15	≤74	PASS
11N20SISO	Ant2	High	5240	Peak	5352.960	-41.73	≤-21.20	53.47	≤74	PASS
11N20SISO	Ant2	High	5240	AV	5350.000	-50.86	≤-41.20	44.34	≤54	PASS
11N20SISO	Ant2	High	5240	AV	5460.000	-52.35	≤-41.20	42.85	≤54	PASS
11N20SISO	Ant2	High	5240	AV	5351.280	-50.71	≤-41.20	44.49	≤54	PASS
11N40SISO	Ant2	Low	5190	Peak	4500.000	-44.99	≤-21.20	50.21	≤74	PASS
11N40SISO	Ant2	Low	5190	Peak	5150.000	-41.47	≤-21.20	53.73	≤74	PASS
11N40SISO	Ant2	Low	5190	Peak	5146.800	-38.79	≤-21.20	56.41	≤74	PASS
11N40SISO	Ant2	Low	5190	AV	4500.000	-52.5	≤-41.20	42.70	≤54	PASS
11N40SISO	Ant2	Low	5190	AV	5150.000	-46.52	≤-41.20	48.68	≤54	PASS
11N40SISO	Ant2	Low	5190	AV	5148.200	-46.56	≤-41.20	48.64	≤54	PASS
11N40SISO	Ant2	High	5230	Peak	5350.000	-43.58	≤-21.20	51.62	≤74	PASS
11N40SISO	Ant2	High	5230	Peak	5460.000	-45.76	≤-21.20	49.44	≤74	PASS
11N40SISO	Ant2	High	5230	Peak	5366.400	-41.85	≤-21.20	53.35	≤74	PASS
11N40SISO	Ant2	High	5230	AV	5350.000	-51.23	≤-41.20	43.97	≤54	PASS
11N40SISO	Ant2	High	5230	AV	5460.000	-52.22	≤-41.20	42.98	≤54	PASS
11N40SISO	Ant2	High	5230	AV	5351.840	-50.93	≤-41.20	44.27	≤54	PASS
11AC20SISO	Ant2	Low	5180	Peak	4500.000	-46.8	≤-21.20	48.40	≤74	PASS



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11AC20SISO	Ant2	Low	5180	Peak	5150.000	-40.75	≤-21.20	54.45	≤74	PASS
11AC20SISO	Ant2	Low	5180	Peak	5141.900	-38.84	≤-21.20	56.36	≤74	PASS
11AC20SISO	Ant2	Low	5180	AV	4500.000	-51.35	≤-41.20	43.85	≤54	PASS
11AC20SISO	Ant2	Low	5180	AV	5150.000	-46.86	≤-41.20	48.34	≤54	PASS
11AC20SISO	Ant2	Low	5180	AV	5149.600	-46.71	≤-41.20	48.49	≤54	PASS
11AC20SISO	Ant2	High	5240	Peak	5350.000	-43.59	≤-21.20	51.61	≤74	PASS
11AC20SISO	Ant2	High	5240	Peak	5460.000	-47.04	≤-21.20	48.16	≤74	PASS
11AC20SISO	Ant2	High	5240	Peak	5384.640	-41.82	≤-21.20	53.38	≤74	PASS
11AC20SISO	Ant2	High	5240	AV	5350.000	-50.6	≤-41.20	44.60	≤54	PASS
11AC20SISO	Ant2	High	5240	AV	5460.000	-51.28	≤-41.20	43.92	≤54	PASS
11AC20SISO	Ant2	High	5240	AV	5353.440	-50.08	≤-41.20	45.12	≤54	PASS
11AC40SISO	Ant2	Low	5190	Peak	4500.000	-44.08	≤-21.20	51.12	≤74	PASS
11AC40SISO	Ant2	Low	5190	Peak	5150.000	-39.64	≤-21.20	55.56	≤74	PASS
11AC40SISO	Ant2	Low	5190	Peak	5137.700	-37.99	≤-21.20	57.21	≤74	PASS
11AC40SISO	Ant2	Low	5190	AV	4500.000	-52.55	≤-41.20	42.65	≤54	PASS
11AC40SISO	Ant2	Low	5190	AV	5150.000	-46.24	≤-41.20	48.96	≤54	PASS
11AC40SISO	Ant2	Low	5190	AV	5148.900	-46.21	≤-41.20	48.99	≤54	PASS
11AC40SISO	Ant2	High	5230	Peak	5350.000	-44.07	≤-21.20	51.13	≤74	PASS
11AC40SISO	Ant2	High	5230	Peak	5460.000	-45.77	≤-21.20	49.43	≤74	PASS
11AC40SISO	Ant2	High	5230	Peak	5359.640	-41.51	≤-21.20	53.69	≤74	PASS
11AC40SISO	Ant2	High	5230	AV	5350.000	-51.04	≤-41.20	44.16	≤54	PASS
11AC40SISO	Ant2	High	5230	AV	5460.000	-52.23	≤-41.20	42.97	≤54	PASS
11AC40SISO	Ant2	High	5230	AV	5351.840	-50.92	≤-41.20	44.28	≤54	PASS
11AC80SISO	Ant2	Low	5210	Peak	4500.000	-45.01	≤-21.20	50.19	≤74	PASS
11AC80SISO	Ant2	Low	5210	Peak	5150.000	-35.84	≤-21.20	59.36	≤74	PASS
11AC80SISO	Ant2	Low	5210	Peak	5145.000	-35.07	≤-21.20	60.13	≤74	PASS
11AC80SISO	Ant2	High	5210	Peak	5350.000	-45.9	≤-21.20	49.30	≤74	PASS
11AC80SISO	Ant2	High	5210	Peak	5460.000	-46.04	≤-21.20	49.16	≤74	PASS
11AC80SISO	Ant2	High	5210	Peak	5356.400	-41.84	≤-21.20	53.36	≤74	PASS
11AC80SISO	Ant2	Low	5210	AV	4500.000	-52.55	≤-41.20	42.65	≤54	PASS
11AC80SISO	Ant2	Low	5210	AV	5150.000	-43.19	≤-41.20	52.01	≤54	PASS
11AC80SISO	Ant2	Low	5210	AV	5149.500	-43.08	≤-41.20	52.12	≤54	PASS
11AC80SISO	Ant2	High	5210	AV	5350.000	-51.04	≤-41.20	44.16	≤54	PASS
11AC80SISO	Ant2	High	5210	AV	5460.000	-52.23	≤-41.20	42.97	≤54	PASS
11AC80SISO	Ant2	High	5210	AV	5358.920	-50.75	≤-41.20	44.45	≤54	PASS

Note:

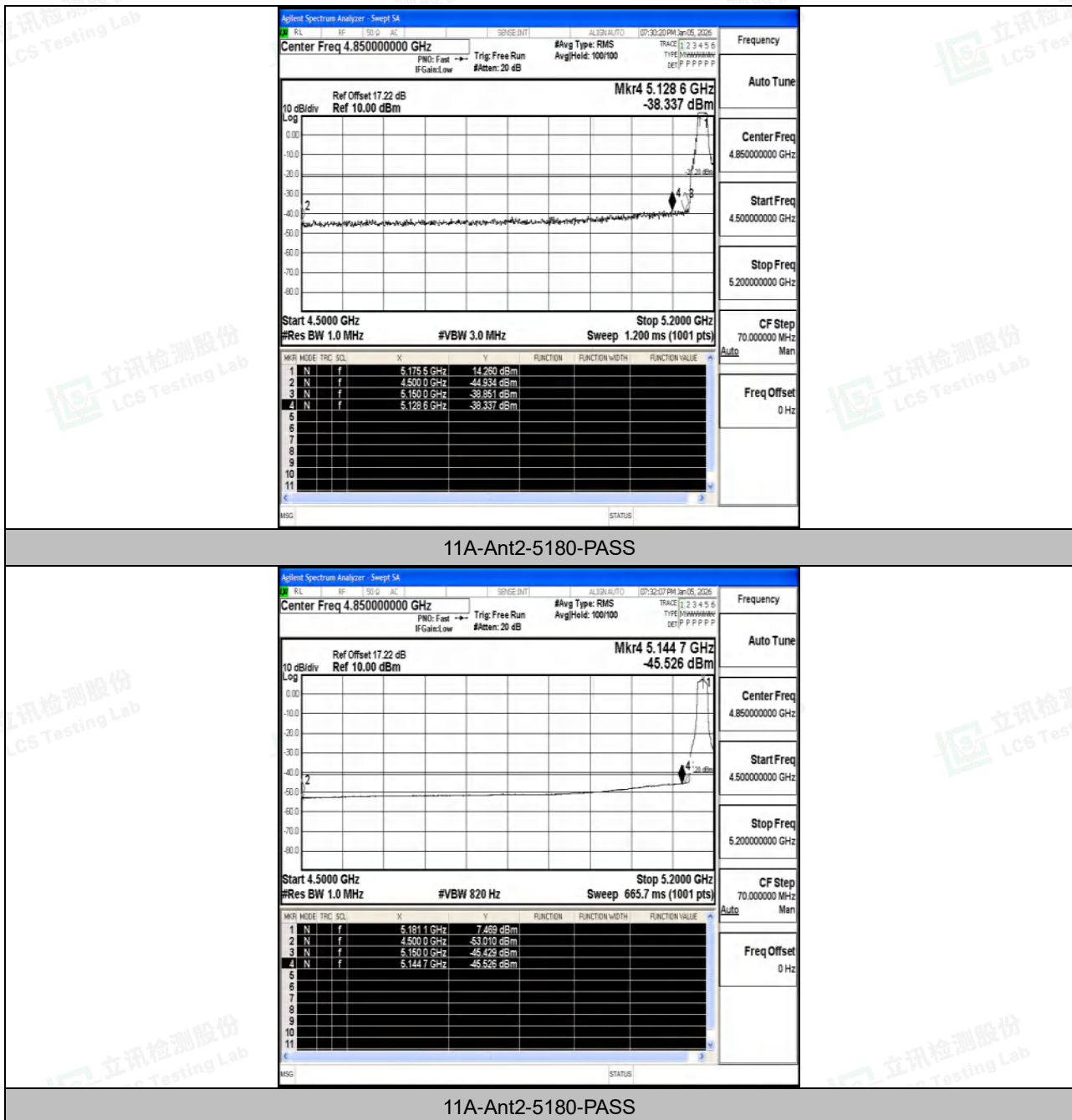
3. The Antenna Gain is compensated in the graph.
4. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.



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Test Graphs

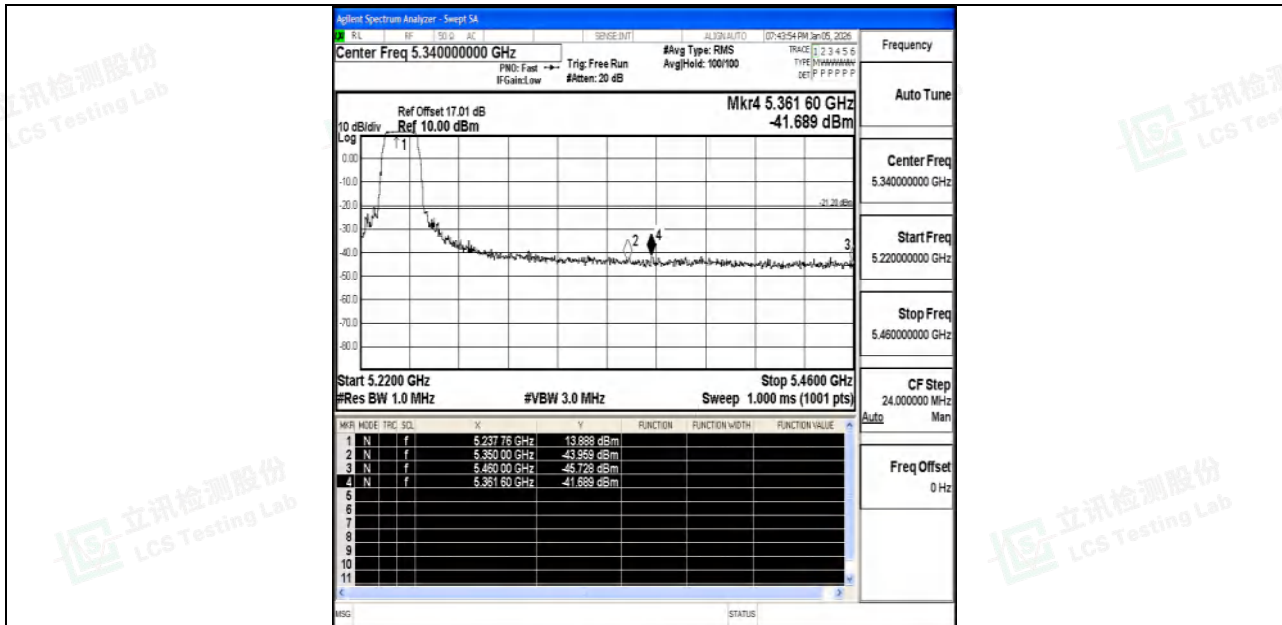


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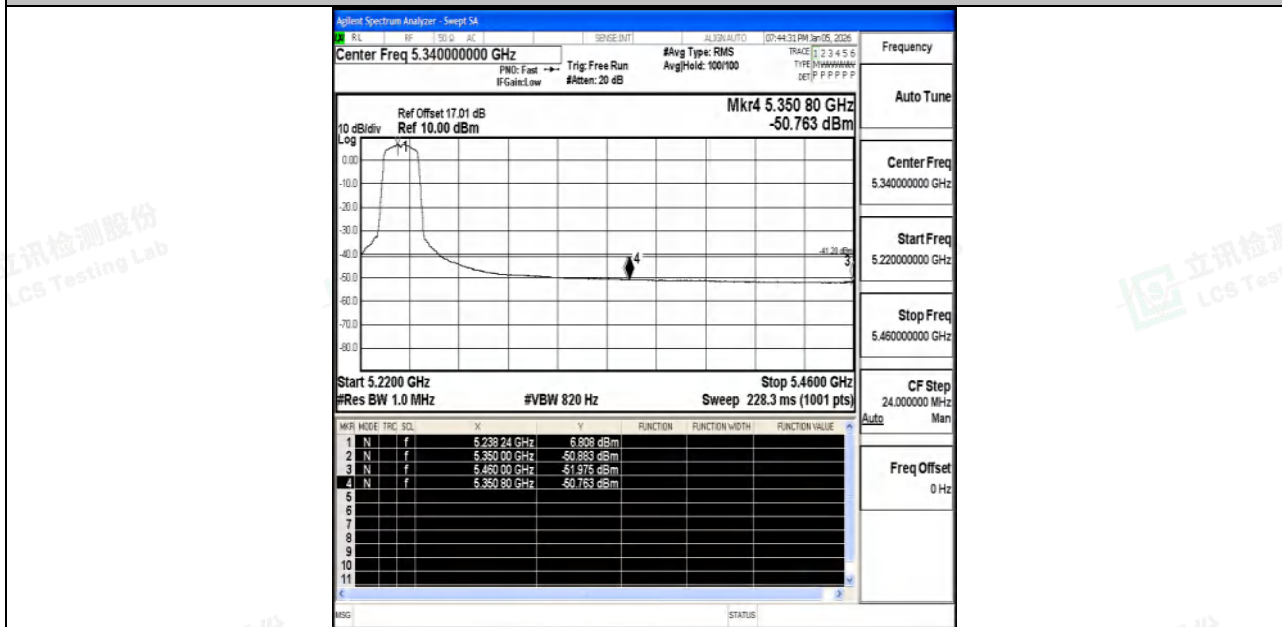
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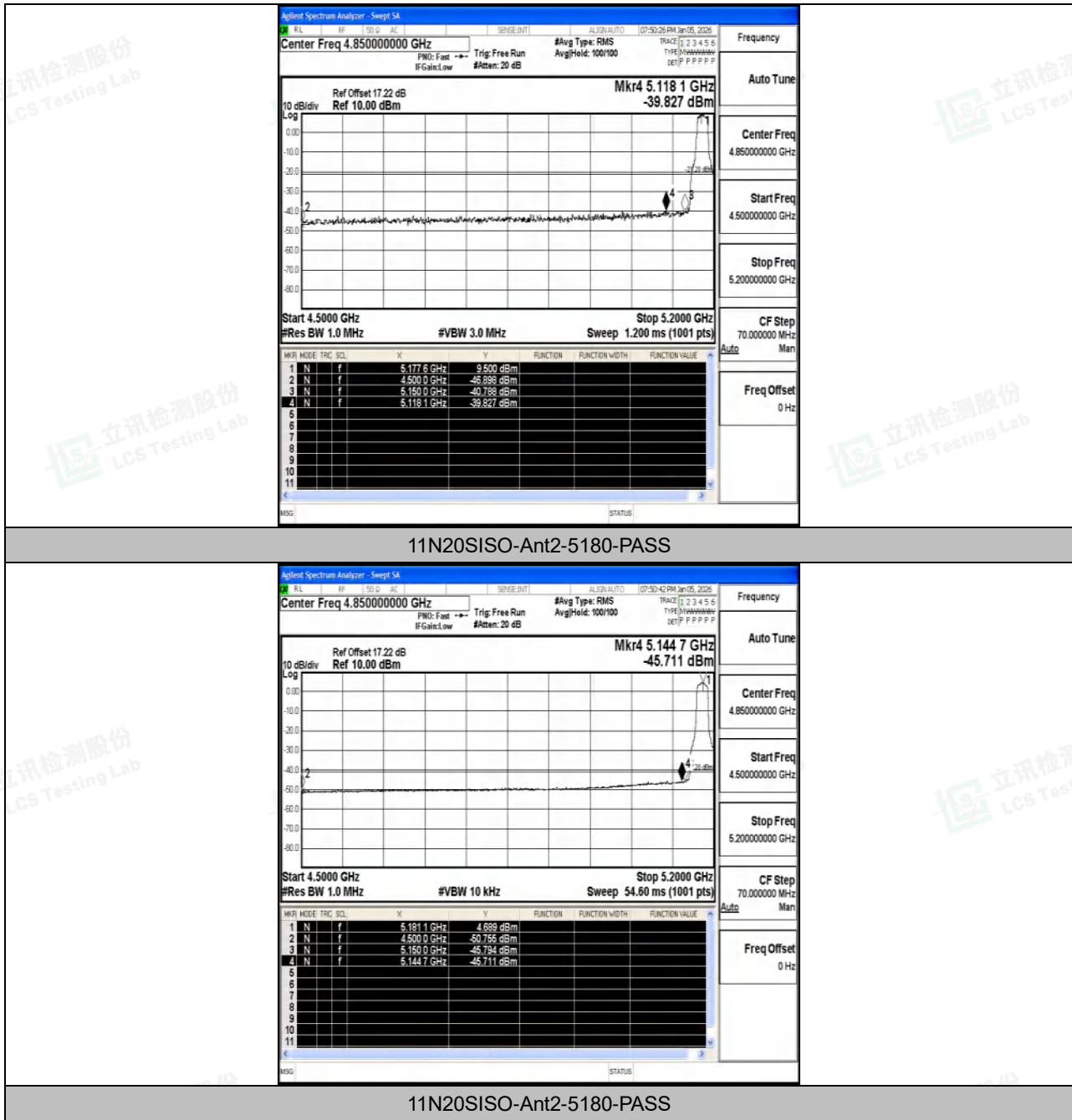


11A-Ant2-5240-PASS



11A-Ant2-5240-PASS



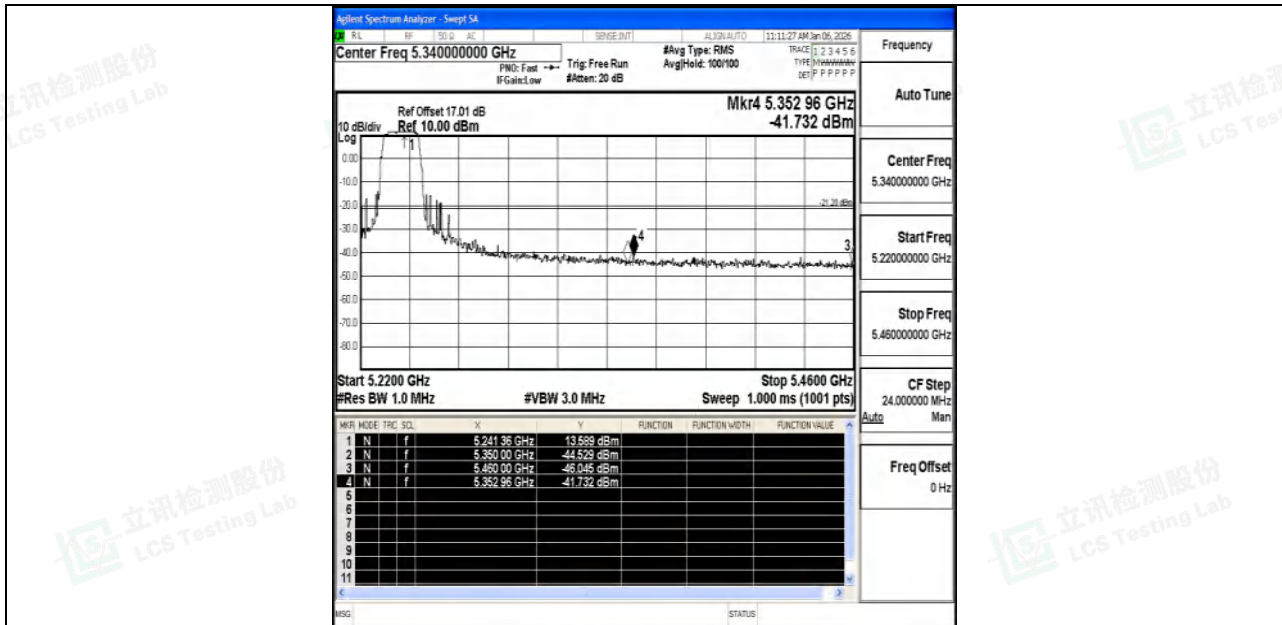


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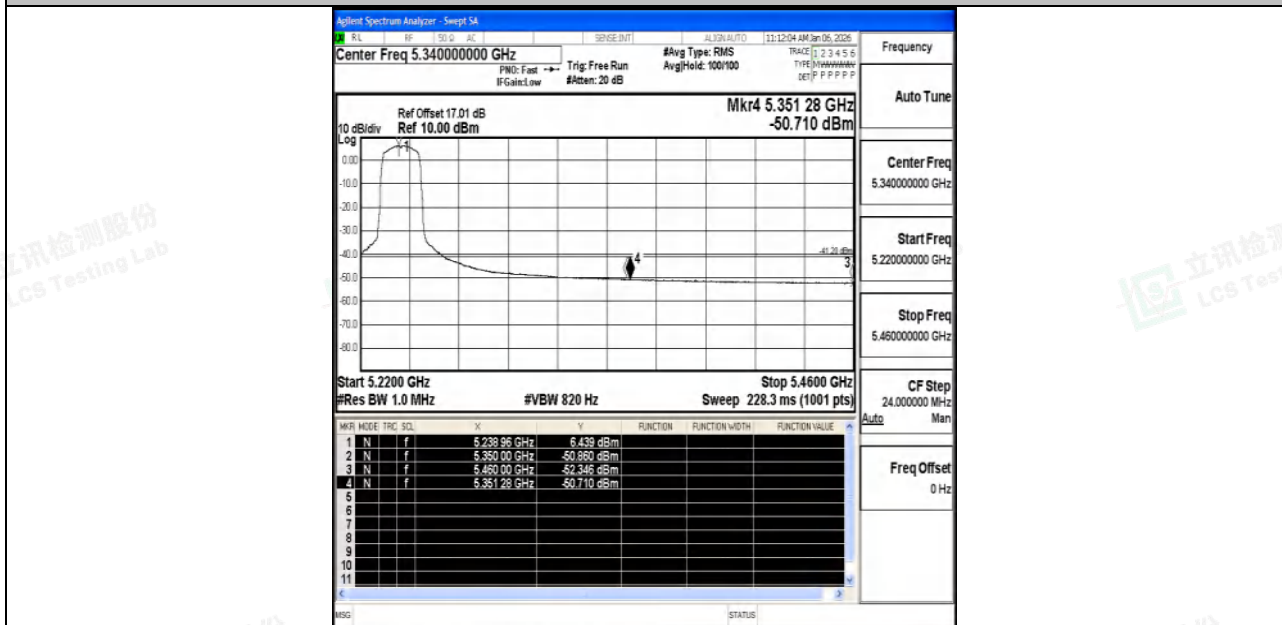
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11N20SISO-Ant2-5240-PASS



11N20SISO-Ant2-5240-PASS

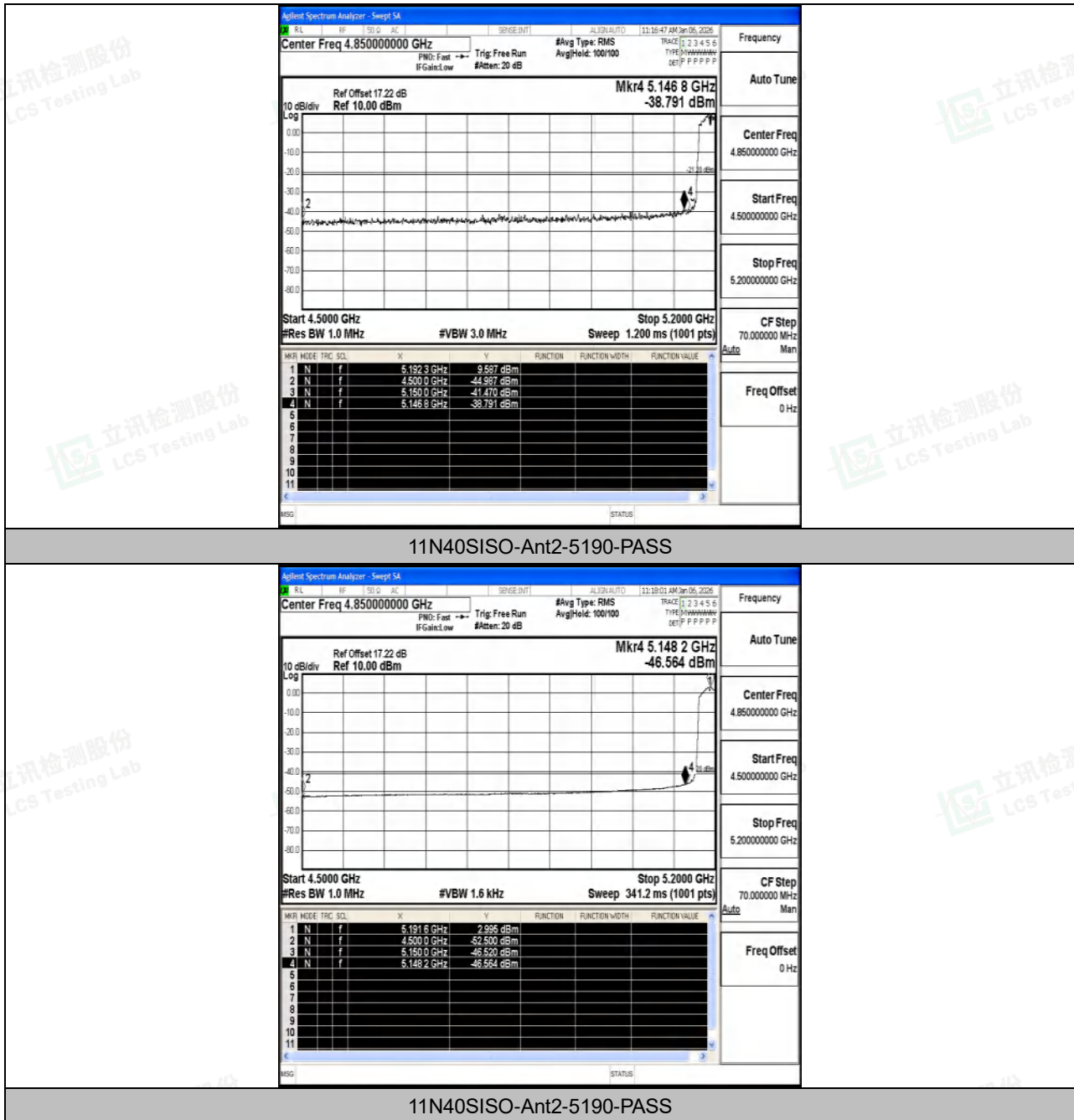


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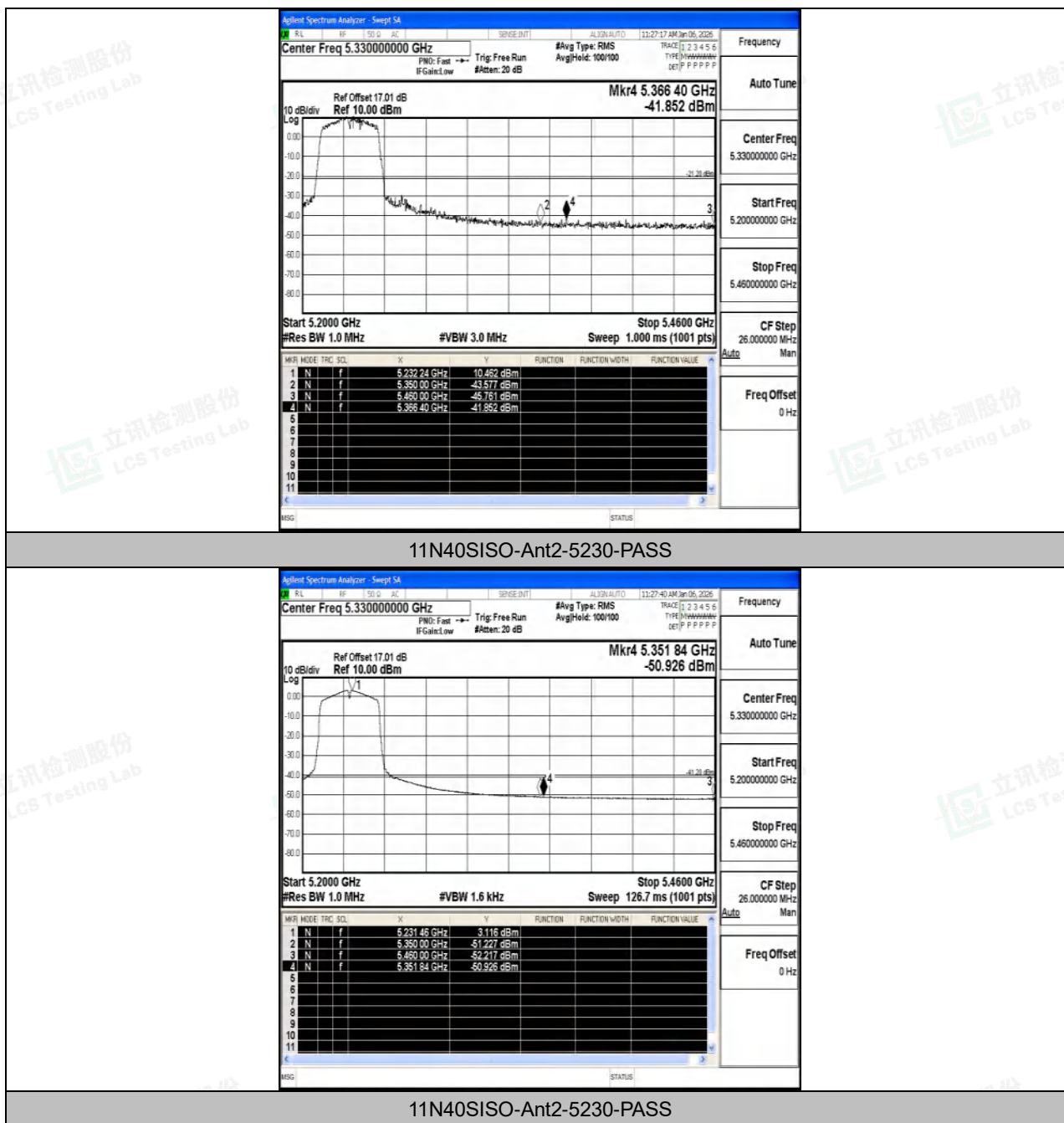


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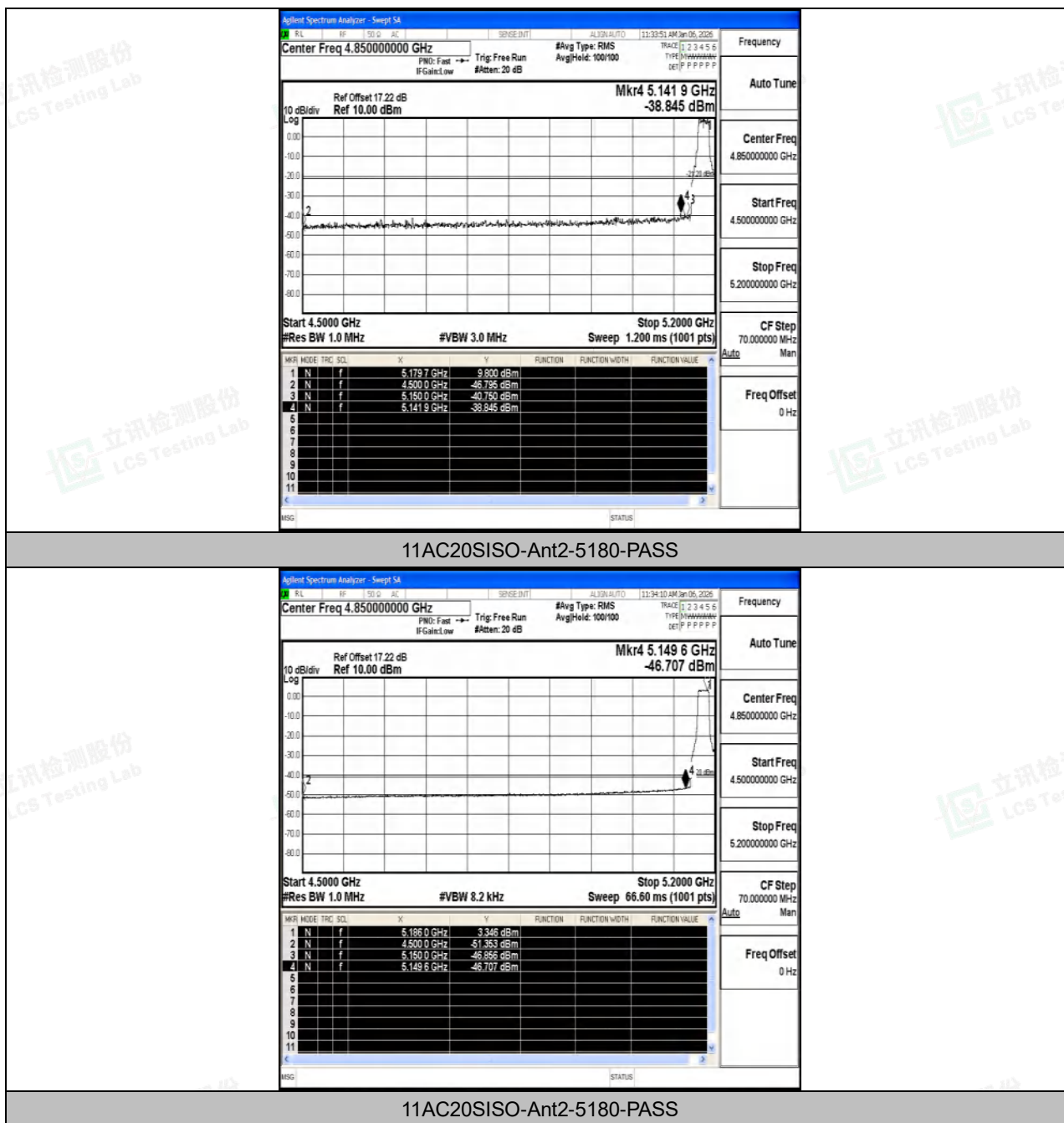


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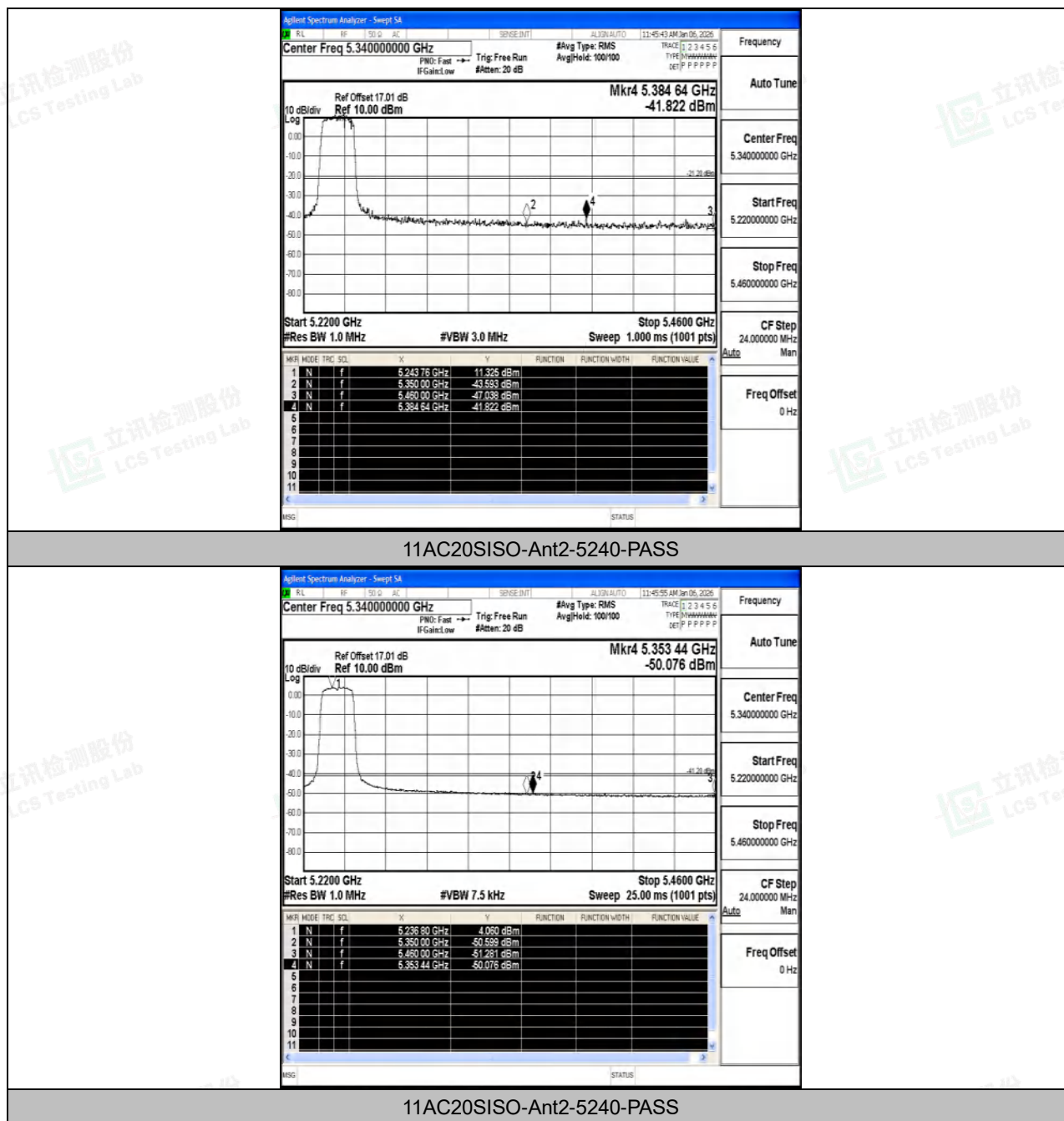


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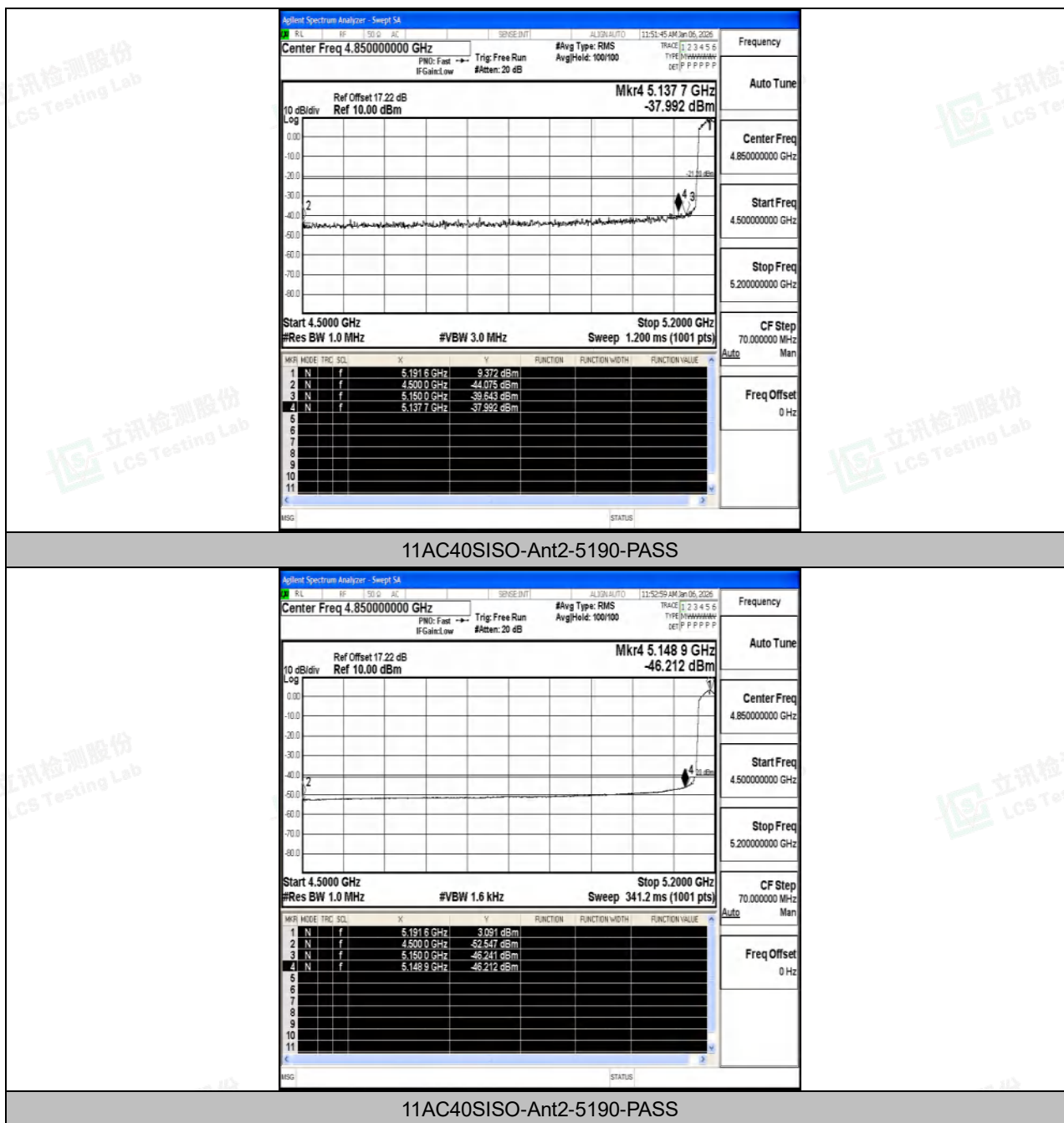


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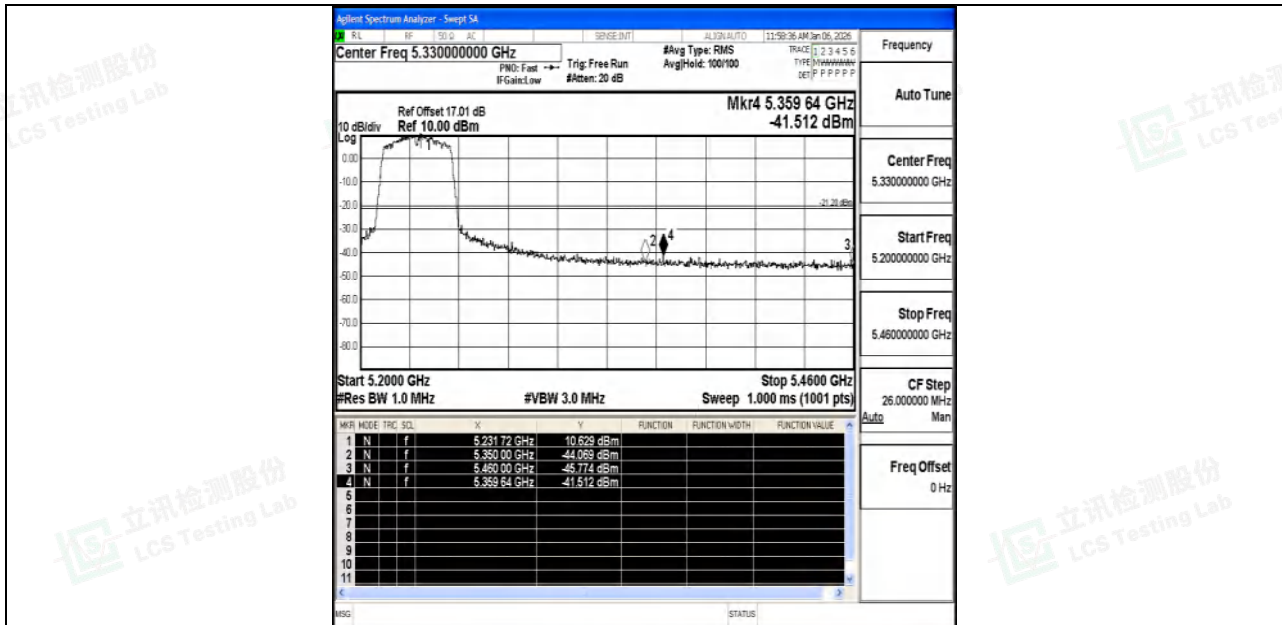


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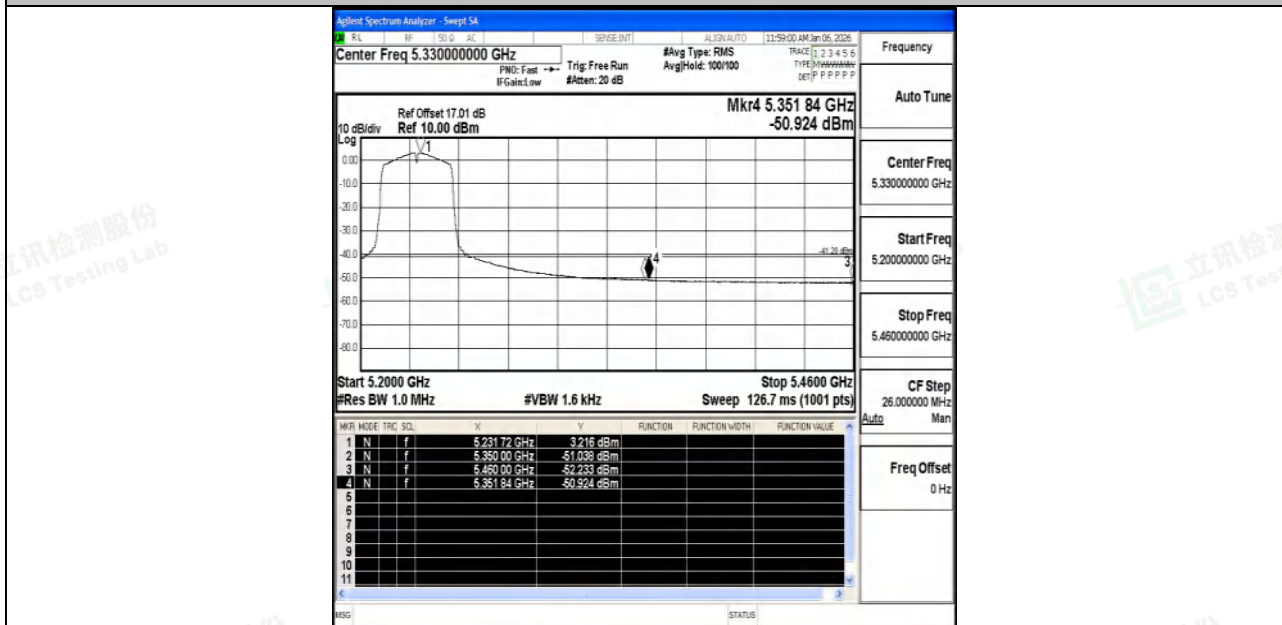
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11AC40SISO-Ant2-5230-PASS



11AC40SISO-Ant2-5230-PASS

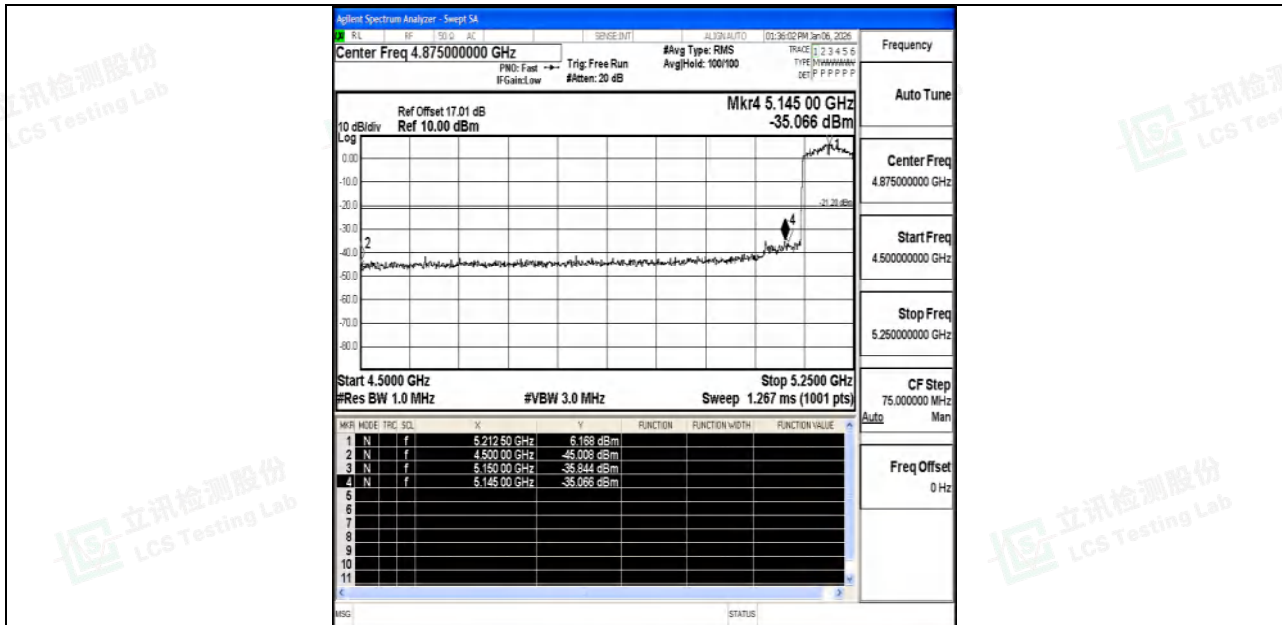


Shenzhen LCS Compliance Testing Laboratory Ltd.

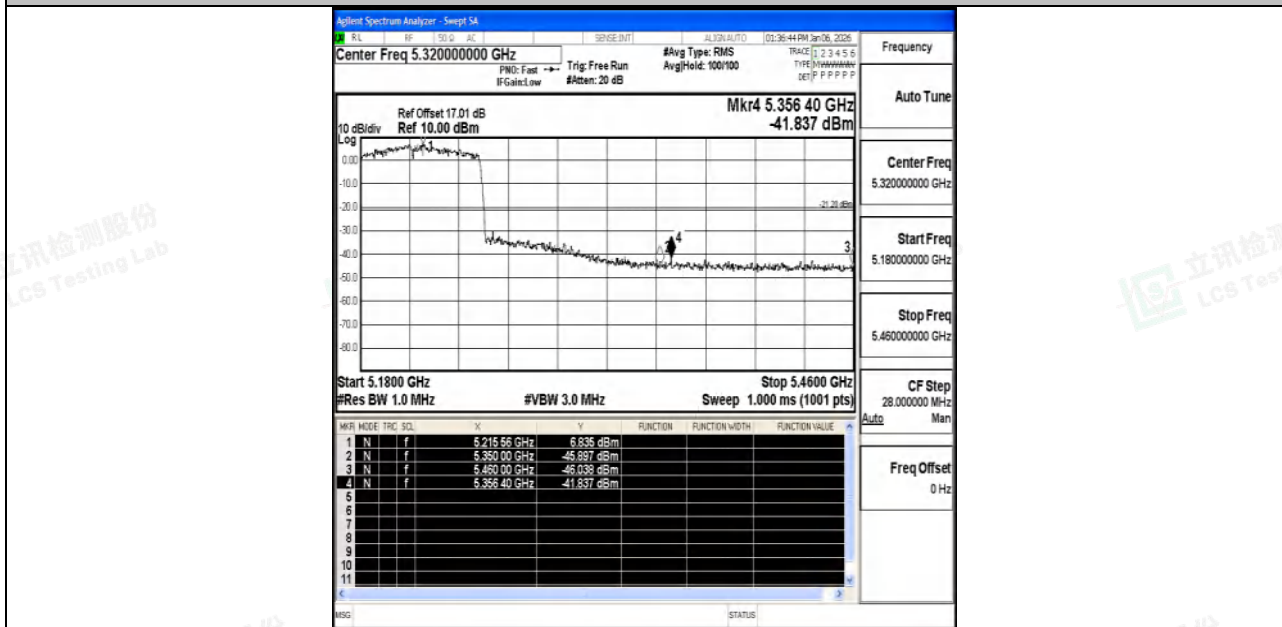
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11AC80SISO-Ant2-5210-PASS



11AC80SISO-Ant2-5210-PASS

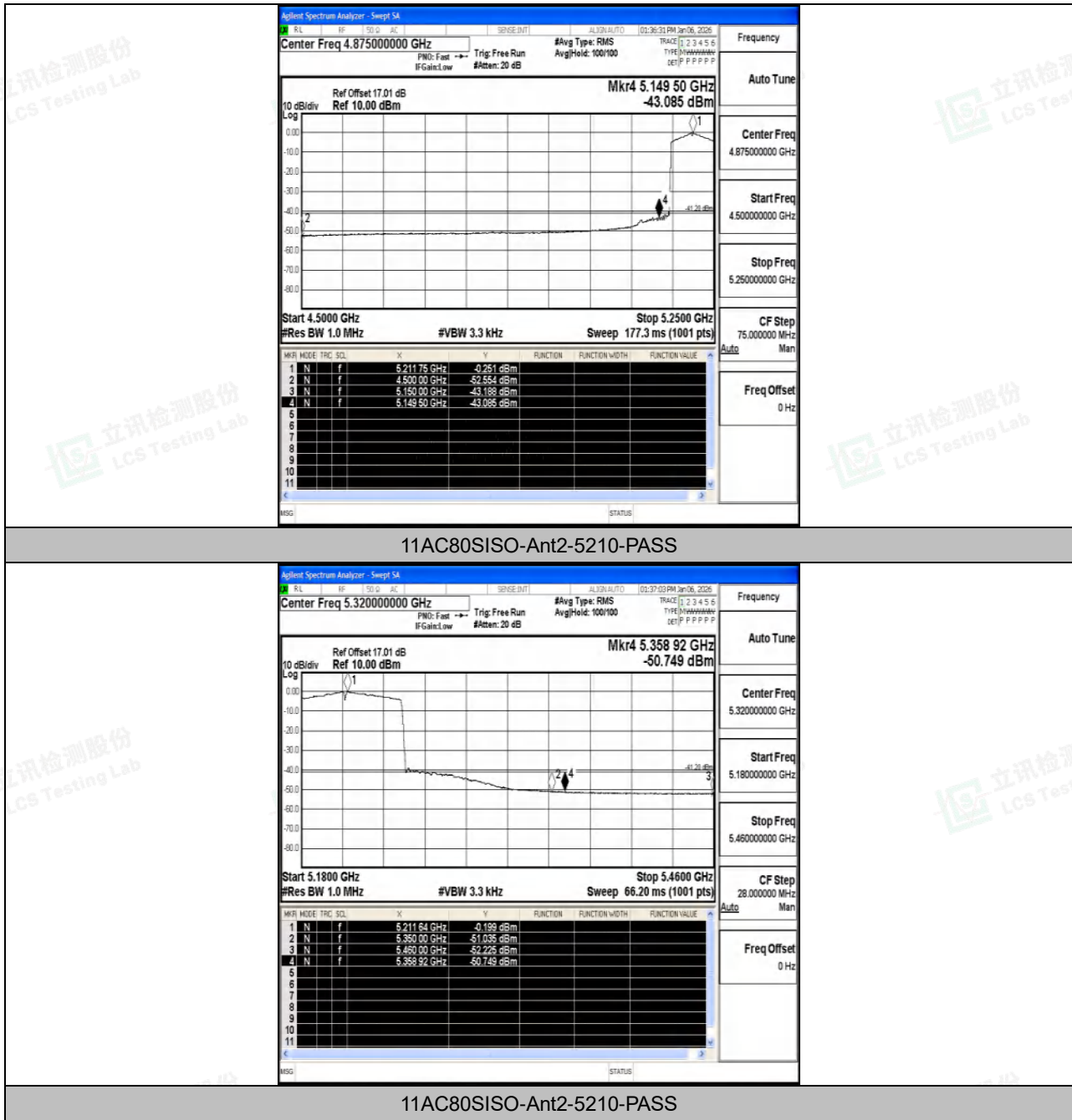


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MIMO

Condition	Mode	Frequency (MHz)	Ant1 Power (dBm)	Ant2 Power (dBm)	Gain (dBi)	Total E (dBuV/m)	Detector	Limit (dBuV/m)	Verdict
NVNT	n20	5180	-49.59	-49.63	8.31	56.94	Peak	74	Pass
NVNT	n20	5180	-57.48	-57.79	8.31	48.92	Average	54	Pass
NVNT	n20	5180	-40.57	-39.67	8.31	66.45	Peak	74	Pass
NVNT	n20	5180	-53.17	-53.36	8.31	53.28	Average	54	Pass
NVNT	n20	5180	-42.75	-41.57	8.31	64.43	Peak	74	Pass
NVNT	n20	5180	-53.71	-53.94	8.31	52.72	Average	54	Pass
NVNT	n20	5240	-48.29	-47.92	8.31	58.45	Peak	74	Pass
NVNT	n20	5240	-56.89	-57.25	8.31	49.48	Average	54	Pass
NVNT	n20	5240	-46.39	-44.75	8.31	61.05	Peak	74	Pass
NVNT	n20	5240	-56.95	-56.9	8.31	49.62	Average	54	Pass
NVNT	n20	5240	-49.59	-48.11	8.31	57.76	Peak	74	Pass
NVNT	n20	5240	-57.47	-58.12	8.31	48.77	Average	54	Pass
NVNT	n40	5190	-48.88	-49.68	8.31	57.29	Peak	74	Pass
NVNT	n40	5190	-58.14	-57.14	8.31	48.94	Average	54	Pass
NVNT	n40	5190	-40.37	-37.39	8.31	67.92	Peak	74	Pass
NVNT	n40	5190	-52.55	-52.63	8.31	53.96	Average	54	Pass
NVNT	n40	5190	-41.01	-42.3	8.31	64.94	Peak	74	Pass
NVNT	n40	5190	-52.19	-56.12	8.31	52.82	Average	54	Pass
NVNT	n40	5230	-50.78	-48.96	8.31	56.77	Peak	74	Pass
NVNT	n40	5230	-57.28	-56.72	8.31	49.56	Average	54	Pass
NVNT	n40	5230	-46.21	-46.76	8.31	60.07	Peak	74	Pass
NVNT	n40	5230	-56.56	-56.45	8.31	50.04	Average	54	Pass
NVNT	n40	5230	-49.01	-47.67	8.31	58.26	Peak	74	Pass
NVNT	n40	5230	-57.85	-57.71	8.31	48.77	Average	54	Pass
NVNT	ac20	5180	-49	-49.1	8.31	57.50	Peak	74	Pass
NVNT	ac20	5180	-58.2	-57.9	8.31	48.50	Average	54	Pass
NVNT	ac20	5180	-41.1	-40.7	8.31	65.65	Peak	74	Pass
NVNT	ac20	5180	-54.1	-53.9	8.31	52.55	Average	54	Pass
NVNT	ac20	5180	-43.8	-42.9	8.31	63.22	Peak	74	Pass
NVNT	ac20	5180	-53.3	-53.3	8.31	53.25	Average	54	Pass
NVNT	ac20	5240	-51.3	-49	8.31	56.55	Peak	74	Pass
NVNT	ac20	5240	-56.1	-56.9	8.31	50.07	Average	54	Pass
NVNT	ac20	5240	-46.5	-47	8.31	59.81	Peak	74	Pass
NVNT	ac20	5240	-56.5	-56.5	8.31	50.05	Average	54	Pass
NVNT	ac20	5240	-47.9	-48.4	8.31	58.41	Peak	74	Pass
NVNT	ac20	5240	-58.4	-57.5	8.31	48.62	Average	54	Pass



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NVNT	ac40	5190	-48.7	-48	8.31	58.21	Peak	74	Pass
NVNT	ac40	5190	-57.5	-58.5	8.31	48.58	Average	54	Pass
NVNT	ac40	5190	-41	-40.7	8.31	65.70	Peak	74	Pass
NVNT	ac40	5190	-53.1	-53.2	8.31	53.40	Average	54	Pass
NVNT	ac40	5190	-45.3	-41.1	8.31	63.84	Peak	74	Pass
NVNT	ac40	5190	-53.1	-53.3	8.31	53.35	Average	54	Pass
NVNT	ac40	5230	-49.6	-49	8.31	57.26	Peak	74	Pass
NVNT	ac40	5230	-57.2	-58	8.31	48.97	Average	54	Pass
NVNT	ac40	5230	-46	-45.3	8.31	60.91	Peak	74	Pass
NVNT	ac40	5230	-56.8	-57	8.31	49.65	Average	54	Pass
NVNT	ac40	5230	-49.8	-49.5	8.31	56.90	Peak	74	Pass
NVNT	ac40	5230	-57.6	-57.8	8.31	48.85	Average	54	Pass
NVNT	ac80	5210	-48.3	-47.2	8.31	58.83	Peak	74	Pass
NVNT	ac80	5210	-56.1	-57	8.31	50.02	Average	54	Pass
NVNT	ac80	5210	-46.3	-46.8	8.31	60.01	Peak	74	Pass
NVNT	ac80	5210	-55.3	-55.5	8.31	51.15	Average	54	Pass
NVNT	ac80	5210	-49.2	-48.5	8.31	57.71	Peak	74	Pass
NVNT	ac80	5210	-56.9	-58.4	8.31	48.96	Average	54	Pass
NVNT	ac80	5210	-49.6	-48.5	8.31	57.53	Peak	74	Pass
NVNT	ac80	5210	-57.7	-59	8.31	48.25	Average	54	Pass
NVNT	ac80	5210	-42.1	-41	8.31	65.03	Peak	74	Pass
NVNT	ac80	5210	-54.1	-53.9	8.31	52.55	Average	54	Pass
NVNT	ac80	5210	-41.4	-42.2	8.31	64.77	Peak	74	Pass
NVNT	ac80	5210	-53.6	-54.1	8.31	52.71	Average	54	Pass





D.5 Frequency Stability

Test Result

TestMode	Antenna	Frequenc y[MHz]	Voltage [Vdc]	Temperat ure (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	-60000.00	-11.583012	20	PASS
11A	Ant1	5180	LV	NT	-60000.00	-11.583012	20	PASS
11A	Ant1	5180	HV	NT	-60000.00	-11.583012	20	PASS
11A	Ant1	5200	NV	NT	-60000.00	-11.538462	20	PASS
11A	Ant1	5200	LV	NT	-40000.00	-7.692308	20	PASS
11A	Ant1	5200	HV	NT	-60000.00	-11.538462	20	PASS
11A	Ant1	5240	NV	NT	-80000.00	-15.267176	20	PASS
11A	Ant1	5240	LV	NT	-80000.00	-15.267176	20	PASS
11A	Ant1	5240	HV	NT	-80000.00	-15.267176	20	PASS
11N20SISO	Ant1	5180	NV	NT	-40000.00	-7.722008	20	PASS
11N20SISO	Ant1	5180	LV	NT	-40000.00	-7.722008	20	PASS
11N20SISO	Ant1	5180	HV	NT	-60000.00	-11.583012	20	PASS
11N20SISO	Ant1	5200	NV	NT	-60000.00	-11.538462	20	PASS
11N20SISO	Ant1	5200	LV	NT	-40000.00	-7.692308	20	PASS
11N20SISO	Ant1	5200	HV	NT	-60000.00	-11.538462	20	PASS
11N20SISO	Ant1	5240	NV	NT	-40000.00	-7.633588	20	PASS
11N20SISO	Ant1	5240	LV	NT	-40000.00	-7.633588	20	PASS
11N20SISO	Ant1	5240	HV	NT	-60000.00	-11.450382	20	PASS
11N40SISO	Ant1	5190	NV	NT	0.00	0.000000	20	PASS
11N40SISO	Ant1	5190	LV	NT	-40000.00	-7.707129	20	PASS
11N40SISO	Ant1	5190	HV	NT	0.00	0.000000	20	PASS
11N40SISO	Ant1	5230	NV	NT	0.00	0.000000	20	PASS
11N40SISO	Ant1	5230	LV	NT	-40000.00	-7.648184	20	PASS
11N40SISO	Ant1	5230	HV	NT	0.00	0.000000	20	PASS
11AC20SISO	Ant1	5180	NV	NT	-60000.00	-11.583012	20	PASS
11AC20SISO	Ant1	5180	LV	NT	-40000.00	-7.722008	20	PASS
11AC20SISO	Ant1	5180	HV	NT	-60000.00	-11.583012	20	PASS
11AC20SISO	Ant1	5200	NV	NT	-60000.00	-11.538462	20	PASS
11AC20SISO	Ant1	5200	LV	NT	-60000.00	-11.538462	20	PASS
11AC20SISO	Ant1	5200	HV	NT	-40000.00	-7.692308	20	PASS
11AC20SISO	Ant1	5240	NV	NT	-40000.00	-7.633588	20	PASS
11AC20SISO	Ant1	5240	LV	NT	-40000.00	-7.633588	20	PASS
11AC20SISO	Ant1	5240	HV	NT	-40000.00	-7.633588	20	PASS
11AC40SISO	Ant1	5190	NV	NT	-40000.00	-7.707129	20	PASS
11AC40SISO	Ant1	5190	LV	NT	-40000.00	-7.707129	20	PASS
11AC40SISO	Ant1	5190	HV	NT	-40000.00	-7.707129	20	PASS
11AC40SISO	Ant1	5230	NV	NT	-40000.00	-7.648184	20	PASS



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11AC40SISO	Ant1	5230	LV	NT	-40000.00	-7.648184	20	PASS
11AC40SISO	Ant1	5230	HV	NT	-40000.00	-7.648184	20	PASS
11AC80SISO	Ant1	5210	NV	NT	-80000.00	-15.355086	20	PASS
11AC80SISO	Ant1	5210	LV	NT	-80000.00	-15.355086	20	PASS
11AC80SISO	Ant1	5210	HV	NT	0.00	0.000000	20	PASS

TestMode	Antenna	Frequency [MHz]	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	-30	-60000.00	-11.583012	20	PASS
11A	Ant1	5180	NV	-20	-60000.00	-11.583012	20	PASS
11A	Ant1	5180	NV	-10	-60000.00	-11.583012	20	PASS
11A	Ant1	5180	NV	0	-60000.00	-11.583012	20	PASS
11A	Ant1	5180	NV	10	-60000.00	-11.583012	20	PASS
11A	Ant1	5180	NV	20	-60000.00	-11.583012	20	PASS
11A	Ant1	5180	NV	30	-60000.00	-11.583012	20	PASS
11A	Ant1	5180	NV	40	-60000.00	-11.583012	20	PASS
11A	Ant1	5180	NV	50	-60000.00	-11.583012	20	PASS
11A	Ant1	5200	NV	-30	-60000.00	-11.538462	20	PASS
11A	Ant1	5200	NV	-20	-60000.00	-11.538462	20	PASS
11A	Ant1	5200	NV	-10	-60000.00	-11.538462	20	PASS
11A	Ant1	5200	NV	0	-60000.00	-11.538462	20	PASS
11A	Ant1	5200	NV	10	-60000.00	-11.538462	20	PASS
11A	Ant1	5200	NV	20	-60000.00	-11.538462	20	PASS
11A	Ant1	5200	NV	30	-60000.00	-11.538462	20	PASS
11A	Ant1	5200	NV	40	-60000.00	-11.538462	20	PASS
11A	Ant1	5200	NV	50	-60000.00	-11.538462	20	PASS
11A	Ant1	5240	NV	-30	-80000.00	-15.267176	20	PASS
11A	Ant1	5240	NV	-20	-60000.00	-11.450382	20	PASS
11A	Ant1	5240	NV	-10	-60000.00	-11.450382	20	PASS
11A	Ant1	5240	NV	0	-80000.00	-15.267176	20	PASS
11A	Ant1	5240	NV	10	-80000.00	-15.267176	20	PASS
11A	Ant1	5240	NV	20	-80000.00	-15.267176	20	PASS
11A	Ant1	5240	NV	30	-80000.00	-15.267176	20	PASS
11A	Ant1	5240	NV	40	-80000.00	-15.267176	20	PASS
11A	Ant1	5240	NV	50	-80000.00	-15.267176	20	PASS
11N20SISO	Ant1	5180	NV	-30	-40000.00	-7.722008	20	PASS
11N20SISO	Ant1	5180	NV	-20	-60000.00	-11.583012	20	PASS
11N20SISO	Ant1	5180	NV	-10	-80000.00	-15.444015	20	PASS
11N20SISO	Ant1	5180	NV	0	-40000.00	-7.722008	20	PASS
11N20SISO	Ant1	5180	NV	10	-60000.00	-11.583012	20	PASS
11N20SISO	Ant1	5180	NV	20	-80000.00	-15.444015	20	PASS
11N20SISO	Ant1	5180	NV	30	-60000.00	-11.583012	20	PASS



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11N20SISO	Ant1	5180	NV	40	-80000.00	-15.444015	20	PASS
11N20SISO	Ant1	5180	NV	50	-20000.00	-3.861004	20	PASS
11N20SISO	Ant1	5200	NV	-30	-40000.00	-7.692308	20	PASS
11N20SISO	Ant1	5200	NV	-20	-60000.00	-11.538462	20	PASS
11N20SISO	Ant1	5200	NV	-10	-40000.00	-7.692308	20	PASS
11N20SISO	Ant1	5200	NV	0	-20000.00	-3.846154	20	PASS
11N20SISO	Ant1	5200	NV	10	-40000.00	-7.692308	20	PASS
11N20SISO	Ant1	5200	NV	20	-40000.00	-7.692308	20	PASS
11N20SISO	Ant1	5200	NV	30	-40000.00	-7.692308	20	PASS
11N20SISO	Ant1	5200	NV	40	-40000.00	-7.692308	20	PASS
11N20SISO	Ant1	5200	NV	50	-60000.00	-11.538462	20	PASS
11N20SISO	Ant1	5240	NV	-30	-40000.00	-7.633588	20	PASS
11N20SISO	Ant1	5240	NV	-20	-40000.00	-7.633588	20	PASS
11N20SISO	Ant1	5240	NV	-10	-80000.00	-15.267176	20	PASS
11N20SISO	Ant1	5240	NV	0	-80000.00	-15.267176	20	PASS
11N20SISO	Ant1	5240	NV	10	-60000.00	-11.450382	20	PASS
11N20SISO	Ant1	5240	NV	20	-20000.00	-3.816794	20	PASS
11N20SISO	Ant1	5240	NV	30	-60000.00	-11.450382	20	PASS
11N20SISO	Ant1	5240	NV	40	-60000.00	-11.450382	20	PASS
11N20SISO	Ant1	5240	NV	50	-60000.00	-11.450382	20	PASS
11N40SISO	Ant1	5190	NV	-30	-40000.00	-7.707129	20	PASS
11N40SISO	Ant1	5190	NV	-20	0.00	0.000000	20	PASS
11N40SISO	Ant1	5190	NV	-10	-40000.00	-7.707129	20	PASS
11N40SISO	Ant1	5190	NV	0	0.00	0.000000	20	PASS
11N40SISO	Ant1	5190	NV	10	-40000.00	-7.707129	20	PASS
11N40SISO	Ant1	5190	NV	20	0.00	0.000000	20	PASS
11N40SISO	Ant1	5190	NV	30	0.00	0.000000	20	PASS
11N40SISO	Ant1	5190	NV	40	0.00	0.000000	20	PASS
11N40SISO	Ant1	5190	NV	50	-80000.00	-15.414258	20	PASS
11N40SISO	Ant1	5230	NV	-30	-40000.00	-7.648184	20	PASS
11N40SISO	Ant1	5230	NV	-20	0.00	0.000000	20	PASS
11N40SISO	Ant1	5230	NV	-10	0.00	0.000000	20	PASS
11N40SISO	Ant1	5230	NV	0	-40000.00	-7.648184	20	PASS
11N40SISO	Ant1	5230	NV	10	-40000.00	-7.648184	20	PASS
11N40SISO	Ant1	5230	NV	20	-40000.00	-7.648184	20	PASS
11N40SISO	Ant1	5230	NV	30	-80000.00	-15.296367	20	PASS
11N40SISO	Ant1	5230	NV	40	-40000.00	-7.648184	20	PASS
11N40SISO	Ant1	5230	NV	50	-40000.00	-7.648184	20	PASS
11AC20SISO	Ant1	5180	NV	-30	-40000.00	-7.722008	20	PASS
11AC20SISO	Ant1	5180	NV	-20	-40000.00	-7.722008	20	PASS
11AC20SISO	Ant1	5180	NV	-10	-40000.00	-7.722008	20	PASS
11AC20SISO	Ant1	5180	NV	0	-40000.00	-7.722008	20	PASS



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11AC20SISO	Ant1	5180	NV	10	-80000.00	-15.444015	20	PASS
11AC20SISO	Ant1	5180	NV	20	-40000.00	-7.722008	20	PASS
11AC20SISO	Ant1	5180	NV	30	-60000.00	-11.583012	20	PASS
11AC20SISO	Ant1	5180	NV	40	-60000.00	-11.583012	20	PASS
11AC20SISO	Ant1	5180	NV	50	-40000.00	-7.722008	20	PASS
11AC20SISO	Ant1	5200	NV	-30	-60000.00	-11.538462	20	PASS
11AC20SISO	Ant1	5200	NV	-20	-60000.00	-11.538462	20	PASS
11AC20SISO	Ant1	5200	NV	-10	-40000.00	-7.692308	20	PASS
11AC20SISO	Ant1	5200	NV	0	-60000.00	-11.538462	20	PASS
11AC20SISO	Ant1	5200	NV	10	-60000.00	-11.538462	20	PASS
11AC20SISO	Ant1	5200	NV	20	-60000.00	-11.538462	20	PASS
11AC20SISO	Ant1	5200	NV	30	-60000.00	-11.538462	20	PASS
11AC20SISO	Ant1	5200	NV	40	-60000.00	-11.538462	20	PASS
11AC20SISO	Ant1	5200	NV	50	-80000.00	-15.384615	20	PASS
11AC20SISO	Ant1	5240	NV	-30	-40000.00	-7.633588	20	PASS
11AC20SISO	Ant1	5240	NV	-20	-60000.00	-11.450382	20	PASS
11AC20SISO	Ant1	5240	NV	-10	-40000.00	-7.633588	20	PASS
11AC20SISO	Ant1	5240	NV	0	-40000.00	-7.633588	20	PASS
11AC20SISO	Ant1	5240	NV	10	-40000.00	-7.633588	20	PASS
11AC20SISO	Ant1	5240	NV	20	-40000.00	-7.633588	20	PASS
11AC20SISO	Ant1	5240	NV	30	-40000.00	-7.633588	20	PASS
11AC20SISO	Ant1	5240	NV	40	-40000.00	-7.633588	20	PASS
11AC20SISO	Ant1	5240	NV	50	-60000.00	-11.450382	20	PASS
11AC40SISO	Ant1	5190	NV	-30	-80000.00	-15.414258	20	PASS
11AC40SISO	Ant1	5190	NV	-20	-80000.00	-15.414258	20	PASS
11AC40SISO	Ant1	5190	NV	-10	-80000.00	-15.414258	20	PASS
11AC40SISO	Ant1	5190	NV	0	-40000.00	-7.707129	20	PASS
11AC40SISO	Ant1	5190	NV	10	-80000.00	-15.414258	20	PASS
11AC40SISO	Ant1	5190	NV	20	-80000.00	-15.414258	20	PASS
11AC40SISO	Ant1	5190	NV	30	-80000.00	-15.414258	20	PASS
11AC40SISO	Ant1	5190	NV	40	-80000.00	-15.414258	20	PASS
11AC40SISO	Ant1	5190	NV	50	-40000.00	-7.707129	20	PASS
11AC40SISO	Ant1	5230	NV	-30	-40000.00	-7.648184	20	PASS
11AC40SISO	Ant1	5230	NV	-20	-40000.00	-7.648184	20	PASS
11AC40SISO	Ant1	5230	NV	-10	-80000.00	-15.296367	20	PASS
11AC40SISO	Ant1	5230	NV	0	-40000.00	-7.648184	20	PASS
11AC40SISO	Ant1	5230	NV	10	-40000.00	-7.648184	20	PASS
11AC40SISO	Ant1	5230	NV	20	-40000.00	-7.648184	20	PASS
11AC40SISO	Ant1	5230	NV	30	-40000.00	-7.648184	20	PASS
11AC40SISO	Ant1	5230	NV	40	-40000.00	-7.648184	20	PASS
11AC40SISO	Ant1	5230	NV	50	-40000.00	-7.648184	20	PASS
11AC80SISO	Ant1	5210	NV	-30	-80000.00	-15.355086	20	PASS



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11AC80SISO	Ant1	5210	NV	-20	-80000.00	-15.355086	20	PASS
11AC80SISO	Ant1	5210	NV	-10	-80000.00	-15.355086	20	PASS
11AC80SISO	Ant1	5210	NV	0	0.00	0.000000	20	PASS
11AC80SISO	Ant1	5210	NV	10	0.00	0.000000	20	PASS
11AC80SISO	Ant1	5210	NV	20	-80000.00	-15.355086	20	PASS
11AC80SISO	Ant1	5210	NV	30	0.00	0.000000	20	PASS
11AC80SISO	Ant1	5210	NV	40	0.00	0.000000	20	PASS
11AC80SISO	Ant1	5210	NV	50	-80000.00	-15.355086	20	PASS



**Test Result**

TestMode	Antenna	Frequenc y[MHz]	Voltage [Vdc]	Temperat ure (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant2	5180	NV	NT	-80000.00	-15.444015	20	PASS
11A	Ant2	5180	LV	NT	-60000.00	-11.583012	20	PASS
11A	Ant2	5180	HV	NT	-60000.00	-11.583012	20	PASS
11A	Ant2	5200	NV	NT	-60000.00	-11.538462	20	PASS
11A	Ant2	5200	LV	NT	-60000.00	-11.538462	20	PASS
11A	Ant2	5200	HV	NT	-60000.00	-11.538462	20	PASS
11A	Ant2	5240	NV	NT	-60000.00	-11.450382	20	PASS
11A	Ant2	5240	LV	NT	-60000.00	-11.450382	20	PASS
11A	Ant2	5240	HV	NT	-60000.00	-11.450382	20	PASS
11N20SISO	Ant2	5180	NV	NT	-40000.00	-7.722008	20	PASS
11N20SISO	Ant2	5180	LV	NT	-60000.00	-11.583012	20	PASS
11N20SISO	Ant2	5180	HV	NT	-60000.00	-11.583012	20	PASS
11N20SISO	Ant2	5200	NV	NT	-80000.00	-15.384615	20	PASS
11N20SISO	Ant2	5200	LV	NT	-80000.00	-15.384615	20	PASS
11N20SISO	Ant2	5200	HV	NT	-80000.00	-15.384615	20	PASS
11N20SISO	Ant2	5240	NV	NT	-60000.00	-11.450382	20	PASS
11N20SISO	Ant2	5240	LV	NT	-40000.00	-7.633588	20	PASS
11N20SISO	Ant2	5240	HV	NT	-60000.00	-11.450382	20	PASS
11N40SISO	Ant2	5190	NV	NT	-40000.00	-7.707129	20	PASS
11N40SISO	Ant2	5190	LV	NT	-40000.00	-7.707129	20	PASS
11N40SISO	Ant2	5190	HV	NT	-40000.00	-7.707129	20	PASS
11N40SISO	Ant2	5230	NV	NT	-80000.00	-15.296367	20	PASS
11N40SISO	Ant2	5230	LV	NT	-40000.00	-7.648184	20	PASS
11N40SISO	Ant2	5230	HV	NT	-80000.00	-15.296367	20	PASS
11AC20SISO	Ant2	5180	NV	NT	-60000.00	-11.583012	20	PASS
11AC20SISO	Ant2	5180	LV	NT	-60000.00	-11.583012	20	PASS
11AC20SISO	Ant2	5180	HV	NT	-60000.00	-11.583012	20	PASS
11AC20SISO	Ant2	5200	NV	NT	-60000.00	-11.538462	20	PASS
11AC20SISO	Ant2	5200	LV	NT	-60000.00	-11.538462	20	PASS
11AC20SISO	Ant2	5200	HV	NT	-40000.00	-7.692308	20	PASS
11AC20SISO	Ant2	5240	NV	NT	-40000.00	-7.633588	20	PASS
11AC20SISO	Ant2	5240	LV	NT	-60000.00	-11.450382	20	PASS
11AC20SISO	Ant2	5240	HV	NT	-60000.00	-11.450382	20	PASS
11AC40SISO	Ant2	5190	NV	NT	-40000.00	-7.707129	20	PASS
11AC40SISO	Ant2	5190	LV	NT	-80000.00	-15.414258	20	PASS
11AC40SISO	Ant2	5190	HV	NT	-40000.00	-7.707129	20	PASS
11AC40SISO	Ant2	5230	NV	NT	-40000.00	-7.648184	20	PASS
11AC40SISO	Ant2	5230	LV	NT	0.00	0.000000	20	PASS



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11AC40SISO	Ant2	5230	HV	NT	-80000.00	-15.296367	20	PASS
11AC80SISO	Ant2	5210	NV	NT	-80000.00	-15.355086	20	PASS
11AC80SISO	Ant2	5210	LV	NT	-80000.00	-15.355086	20	PASS
11AC80SISO	Ant2	5210	HV	NT	-80000.00	-15.355086	20	PASS

TestMode	Antenna	Frequenc y[MHz]	Voltage [Vdc]	Temperat ure (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant2	5180	NV	-30	-60000.00	-11.583012	20	PASS
11A	Ant2	5180	NV	-20	-60000.00	-11.583012	20	PASS
11A	Ant2	5180	NV	-10	-60000.00	-11.583012	20	PASS
11A	Ant2	5180	NV	0	-60000.00	-11.583012	20	PASS
11A	Ant2	5180	NV	10	-60000.00	-11.583012	20	PASS
11A	Ant2	5180	NV	20	-60000.00	-11.583012	20	PASS
11A	Ant2	5180	NV	30	-60000.00	-11.583012	20	PASS
11A	Ant2	5180	NV	40	-60000.00	-11.583012	20	PASS
11A	Ant2	5180	NV	50	-60000.00	-11.583012	20	PASS
11A	Ant2	5200	NV	-30	-80000.00	-15.384615	20	PASS
11A	Ant2	5200	NV	-20	-60000.00	-11.538462	20	PASS
11A	Ant2	5200	NV	-10	-60000.00	-11.538462	20	PASS
11A	Ant2	5200	NV	0	-60000.00	-11.538462	20	PASS
11A	Ant2	5200	NV	10	-60000.00	-11.538462	20	PASS
11A	Ant2	5200	NV	20	-60000.00	-11.538462	20	PASS
11A	Ant2	5200	NV	30	-60000.00	-11.538462	20	PASS
11A	Ant2	5200	NV	40	-60000.00	-11.538462	20	PASS
11A	Ant2	5200	NV	50	-60000.00	-11.538462	20	PASS
11A	Ant2	5240	NV	-30	-60000.00	-11.450382	20	PASS
11A	Ant2	5240	NV	-20	-60000.00	-11.450382	20	PASS
11A	Ant2	5240	NV	-10	-60000.00	-11.450382	20	PASS
11A	Ant2	5240	NV	0	-60000.00	-11.450382	20	PASS
11A	Ant2	5240	NV	10	-60000.00	-11.450382	20	PASS
11A	Ant2	5240	NV	20	-60000.00	-11.450382	20	PASS
11A	Ant2	5240	NV	30	-60000.00	-11.450382	20	PASS
11A	Ant2	5240	NV	40	-60000.00	-11.450382	20	PASS
11A	Ant2	5240	NV	50	-60000.00	-11.450382	20	PASS
11N20SISO	Ant2	5180	NV	-30	-40000.00	-7.722008	20	PASS
11N20SISO	Ant2	5180	NV	-20	-60000.00	-11.583012	20	PASS
11N20SISO	Ant2	5180	NV	-10	-80000.00	-15.444015	20	PASS
11N20SISO	Ant2	5180	NV	0	-80000.00	-15.444015	20	PASS
11N20SISO	Ant2	5180	NV	10	-60000.00	-11.583012	20	PASS
11N20SISO	Ant2	5180	NV	20	-80000.00	-15.444015	20	PASS
11N20SISO	Ant2	5180	NV	30	-60000.00	-11.583012	20	PASS
11N20SISO	Ant2	5180	NV	40	-60000.00	-11.583012	20	PASS



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11N20SISO	Ant2	5180	NV	50	-40000.00	-7.722008	20	PASS
11N20SISO	Ant2	5200	NV	-30	-60000.00	-11.538462	20	PASS
11N20SISO	Ant2	5200	NV	-20	-80000.00	-15.384615	20	PASS
11N20SISO	Ant2	5200	NV	-10	-80000.00	-15.384615	20	PASS
11N20SISO	Ant2	5200	NV	0	-40000.00	-7.692308	20	PASS
11N20SISO	Ant2	5200	NV	10	-40000.00	-7.692308	20	PASS
11N20SISO	Ant2	5200	NV	20	-60000.00	-11.538462	20	PASS
11N20SISO	Ant2	5200	NV	30	-60000.00	-11.538462	20	PASS
11N20SISO	Ant2	5200	NV	40	-60000.00	-11.538462	20	PASS
11N20SISO	Ant2	5200	NV	50	-40000.00	-7.692308	20	PASS
11N20SISO	Ant2	5240	NV	-30	-40000.00	-7.633588	20	PASS
11N20SISO	Ant2	5240	NV	-20	-60000.00	-11.450382	20	PASS
11N20SISO	Ant2	5240	NV	-10	-60000.00	-11.450382	20	PASS
11N20SISO	Ant2	5240	NV	0	-60000.00	-11.450382	20	PASS
11N20SISO	Ant2	5240	NV	10	-60000.00	-11.450382	20	PASS
11N20SISO	Ant2	5240	NV	20	-60000.00	-11.450382	20	PASS
11N20SISO	Ant2	5240	NV	30	-60000.00	-11.450382	20	PASS
11N20SISO	Ant2	5240	NV	40	-80000.00	-15.267176	20	PASS
11N20SISO	Ant2	5240	NV	50	-60000.00	-11.450382	20	PASS
11N40SISO	Ant2	5190	NV	-30	-40000.00	-7.707129	20	PASS
11N40SISO	Ant2	5190	NV	-20	-40000.00	-7.707129	20	PASS
11N40SISO	Ant2	5190	NV	-10	-40000.00	-7.707129	20	PASS
11N40SISO	Ant2	5190	NV	0	-40000.00	-7.707129	20	PASS
11N40SISO	Ant2	5190	NV	10	-40000.00	-7.707129	20	PASS
11N40SISO	Ant2	5190	NV	20	-40000.00	-7.707129	20	PASS
11N40SISO	Ant2	5190	NV	30	-40000.00	-7.707129	20	PASS
11N40SISO	Ant2	5190	NV	40	-40000.00	-7.707129	20	PASS
11N40SISO	Ant2	5190	NV	50	-40000.00	-7.707129	20	PASS
11N40SISO	Ant2	5230	NV	-30	-80000.00	-15.296367	20	PASS
11N40SISO	Ant2	5230	NV	-20	0.00	0.000000	20	PASS
11N40SISO	Ant2	5230	NV	-10	-40000.00	-7.648184	20	PASS
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11N40SISO	Ant2	5230	NV	40	-40000.00	-7.648184	20	PASS
11N40SISO	Ant2	5230	NV	50	-40000.00	-7.648184	20	PASS
11AC20SISO	Ant2	5180	NV	-30	-40000.00	-7.722008	20	PASS
11AC20SISO	Ant2	5180	NV	-20	-60000.00	-11.583012	20	PASS
11AC20SISO	Ant2	5180	NV	-10	-40000.00	-7.722008	20	PASS
11AC20SISO	Ant2	5180	NV	0	-60000.00	-11.583012	20	PASS
11AC20SISO	Ant2	5180	NV	10	-40000.00	-7.722008	20	PASS



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11AC20SISO	Ant2	5180	NV	20	-60000.00	-11.583012	20	PASS
11AC20SISO	Ant2	5180	NV	30	-60000.00	-11.583012	20	PASS
11AC20SISO	Ant2	5180	NV	40	-60000.00	-11.583012	20	PASS
11AC20SISO	Ant2	5180	NV	50	-60000.00	-11.583012	20	PASS
11AC20SISO	Ant2	5200	NV	-30	-60000.00	-11.538462	20	PASS
11AC20SISO	Ant2	5200	NV	-20	-60000.00	-11.538462	20	PASS
11AC20SISO	Ant2	5200	NV	-10	-80000.00	-15.384615	20	PASS
11AC20SISO	Ant2	5200	NV	0	-60000.00	-11.538462	20	PASS
11AC20SISO	Ant2	5200	NV	10	-40000.00	-7.692308	20	PASS
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11AC20SISO	Ant2	5200	NV	30	-60000.00	-11.538462	20	PASS
11AC20SISO	Ant2	5200	NV	40	-40000.00	-7.692308	20	PASS
11AC20SISO	Ant2	5200	NV	50	-40000.00	-7.692308	20	PASS
11AC20SISO	Ant2	5240	NV	-30	-60000.00	-11.450382	20	PASS
11AC20SISO	Ant2	5240	NV	-20	-60000.00	-11.450382	20	PASS
11AC20SISO	Ant2	5240	NV	-10	-20000.00	-3.816794	20	PASS
11AC20SISO	Ant2	5240	NV	0	-40000.00	-7.633588	20	PASS
11AC20SISO	Ant2	5240	NV	10	-60000.00	-11.450382	20	PASS
11AC20SISO	Ant2	5240	NV	20	-60000.00	-11.450382	20	PASS
11AC20SISO	Ant2	5240	NV	30	-40000.00	-7.633588	20	PASS
11AC20SISO	Ant2	5240	NV	40	-40000.00	-7.633588	20	PASS
11AC20SISO	Ant2	5240	NV	50	-40000.00	-7.633588	20	PASS
11AC40SISO	Ant2	5190	NV	-30	-80000.00	-15.414258	20	PASS
11AC40SISO	Ant2	5190	NV	-20	-80000.00	-15.414258	20	PASS
11AC40SISO	Ant2	5190	NV	-10	-40000.00	-7.707129	20	PASS
11AC40SISO	Ant2	5190	NV	0	-40000.00	-7.707129	20	PASS
11AC40SISO	Ant2	5190	NV	10	-80000.00	-15.414258	20	PASS
11AC40SISO	Ant2	5190	NV	20	-40000.00	-7.707129	20	PASS
11AC40SISO	Ant2	5190	NV	30	-80000.00	-15.414258	20	PASS
11AC40SISO	Ant2	5190	NV	40	-40000.00	-7.707129	20	PASS
11AC40SISO	Ant2	5190	NV	50	-40000.00	-7.707129	20	PASS
11AC40SISO	Ant2	5230	NV	-30	-40000.00	-7.648184	20	PASS
11AC40SISO	Ant2	5230	NV	-20	-40000.00	-7.648184	20	PASS
11AC40SISO	Ant2	5230	NV	-10	-40000.00	-7.648184	20	PASS
11AC40SISO	Ant2	5230	NV	0	-80000.00	-15.296367	20	PASS
11AC40SISO	Ant2	5230	NV	10	-40000.00	-7.648184	20	PASS
11AC40SISO	Ant2	5230	NV	20	-80000.00	-15.296367	20	PASS
11AC40SISO	Ant2	5230	NV	30	-80000.00	-15.296367	20	PASS
11AC40SISO	Ant2	5230	NV	40	-40000.00	-7.648184	20	PASS
11AC40SISO	Ant2	5230	NV	50	-40000.00	-7.648184	20	PASS
11AC80SISO	Ant2	5210	NV	-30	-80000.00	-15.355086	20	PASS
11AC80SISO	Ant2	5210	NV	-20	-80000.00	-15.355086	20	PASS



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11AC80SISO	Ant2	5210	NV	-10	-80000.00	-15.355086	20	PASS
11AC80SISO	Ant2	5210	NV	0	-80000.00	-15.355086	20	PASS
11AC80SISO	Ant2	5210	NV	10	-80000.00	-15.355086	20	PASS
11AC80SISO	Ant2	5210	NV	20	-80000.00	-15.355086	20	PASS
11AC80SISO	Ant2	5210	NV	30	-80000.00	-15.355086	20	PASS
11AC80SISO	Ant2	5210	NV	40	-80000.00	-15.355086	20	PASS
11AC80SISO	Ant2	5210	NV	50	-80000.00	-15.355086	20	PASS





D.6 Duty Cycle

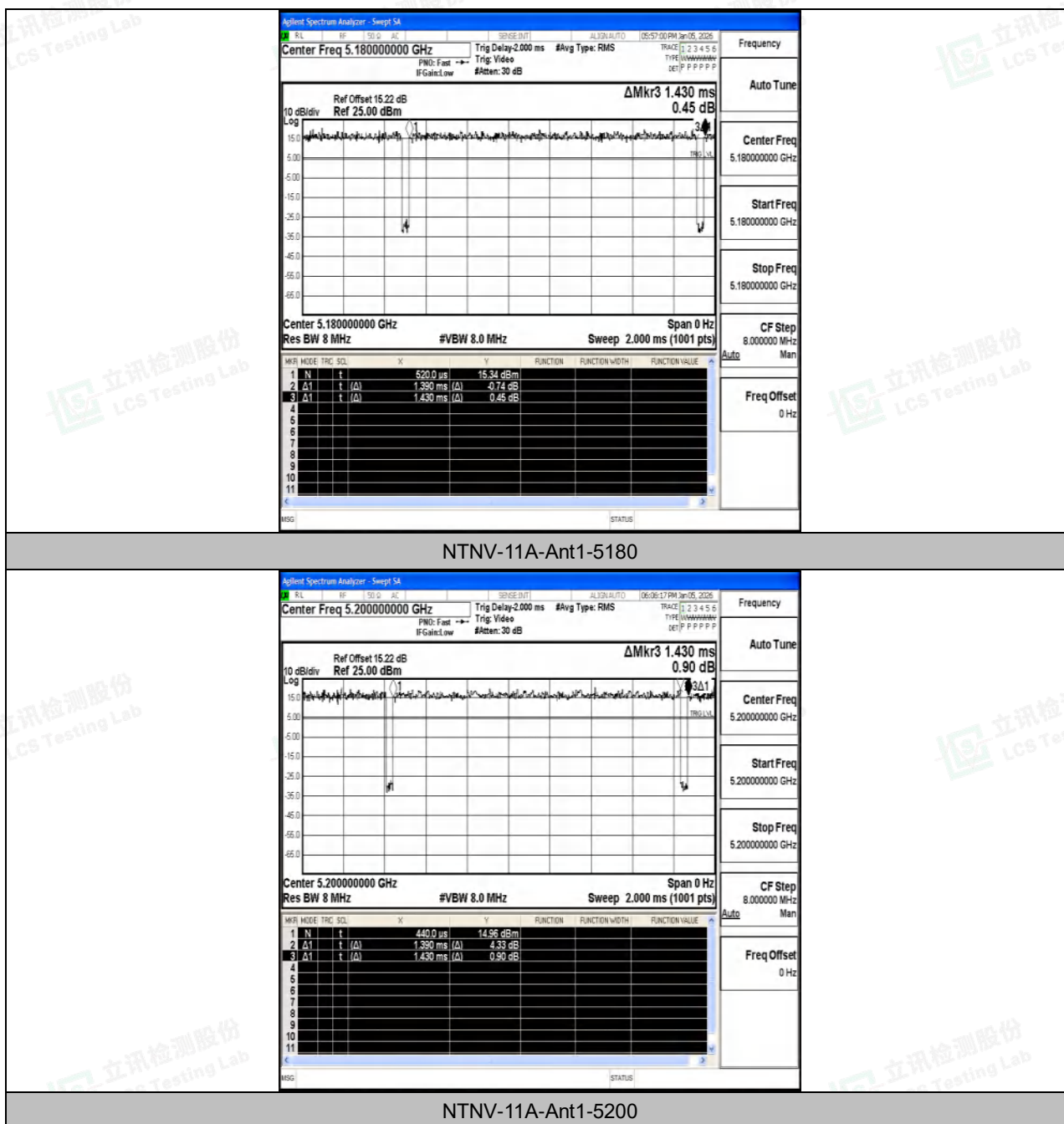
Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Dc Factor [%]	1/T
11A	Ant1	5180	1.39	1.43	97.20	0.12	0.72
11A	Ant1	5200	1.39	1.43	97.20	0.12	0.72
11A	Ant1	5240	1.40	1.43	97.90	0.09	0.71
11N20SISO	Ant1	5180	0.10	0.14	71.43	1.46	10.00
11N20SISO	Ant1	5200	0.11	0.14	78.57	1.05	9.09
11N20SISO	Ant1	5240	0.11	0.14	78.57	1.05	9.09
11N40SISO	Ant1	5190	0.07	0.16	43.75	3.59	14.29
11N40SISO	Ant1	5230	0.07	0.15	46.67	3.31	14.29
11AC20SISO	Ant1	5180	0.15	0.18	83.33	0.79	6.67
11AC20SISO	Ant1	5200	0.14	0.18	77.78	1.09	7.14
11AC20SISO	Ant1	5240	0.15	0.19	78.95	1.03	6.67
11AC40SISO	Ant1	5190	0.09	0.15	60.00	2.22	11.11
11AC40SISO	Ant1	5230	0.09	0.19	47.37	3.24	11.11
11AC80SISO	Ant1	5210	0.06	0.13	46.15	3.36	16.67





Test Graphs

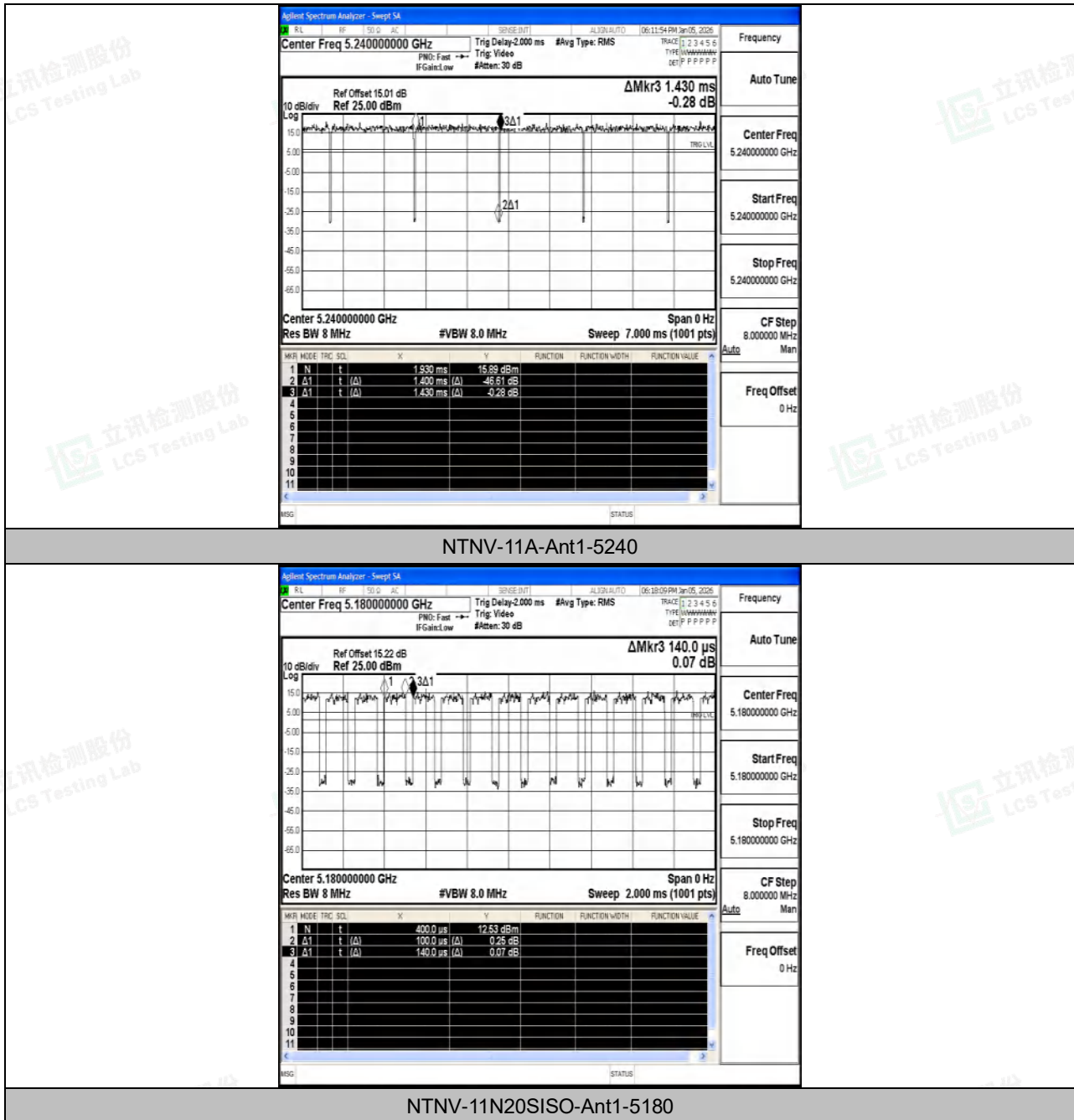


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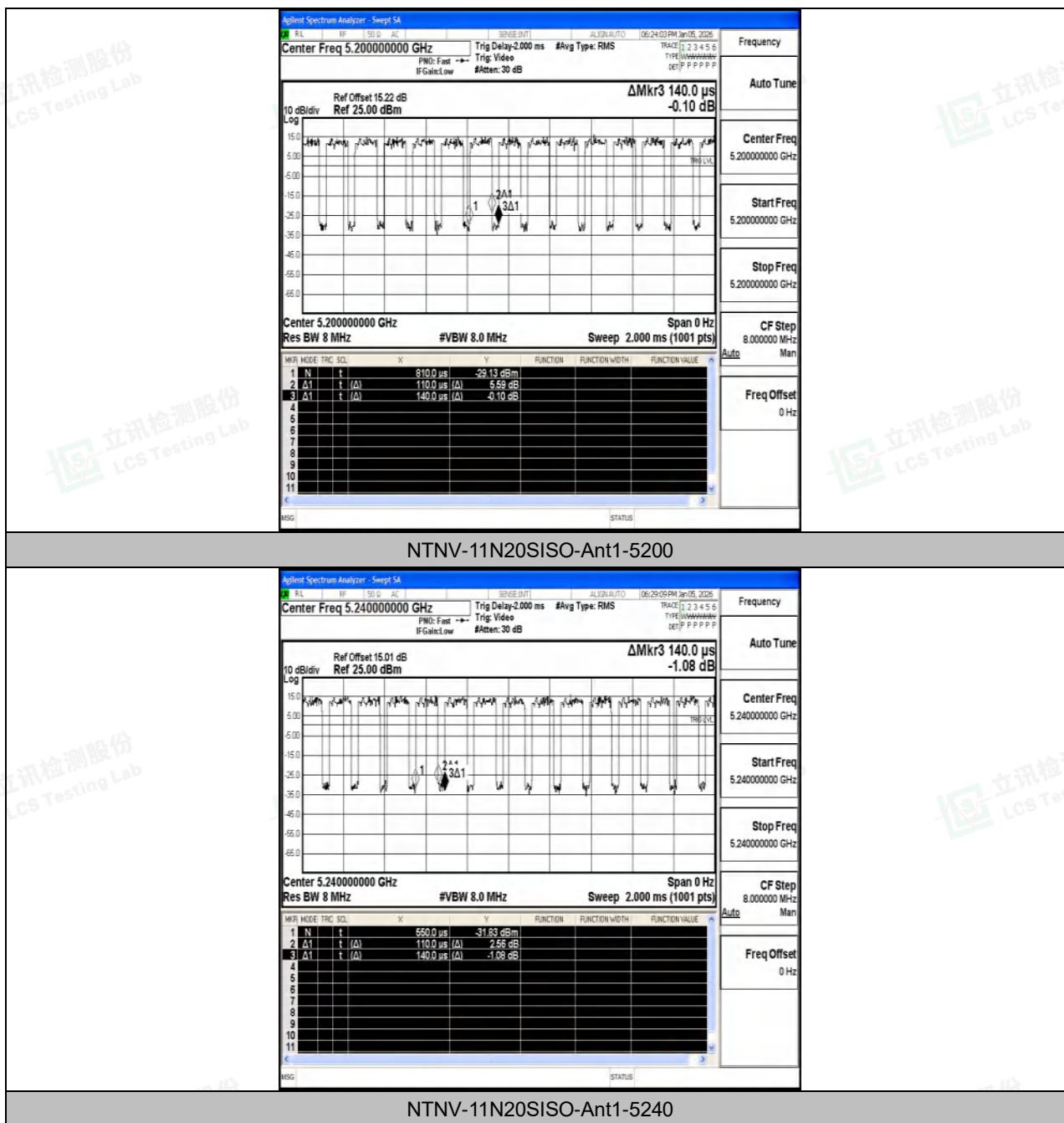


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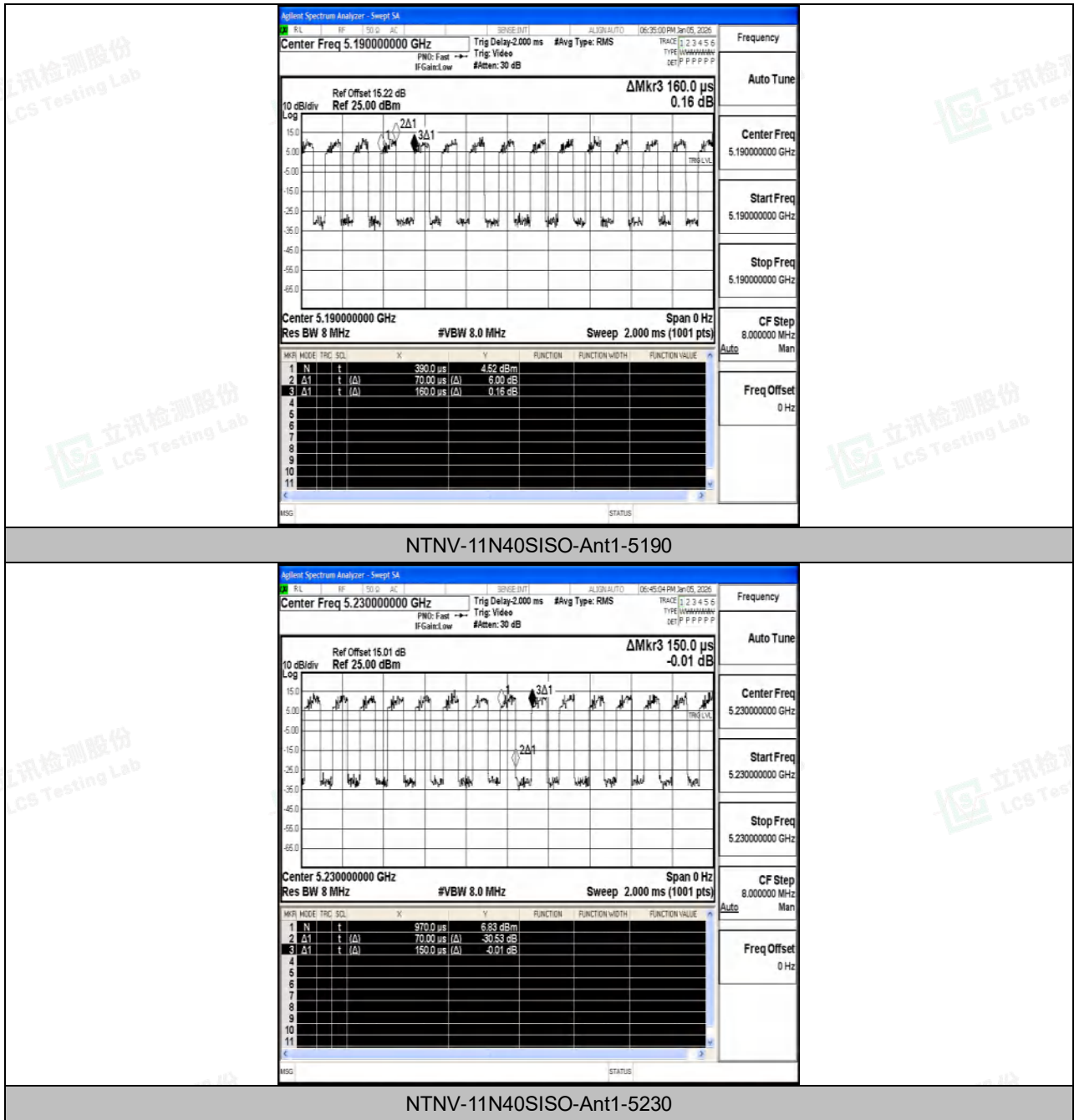


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Scan code to check authenticity

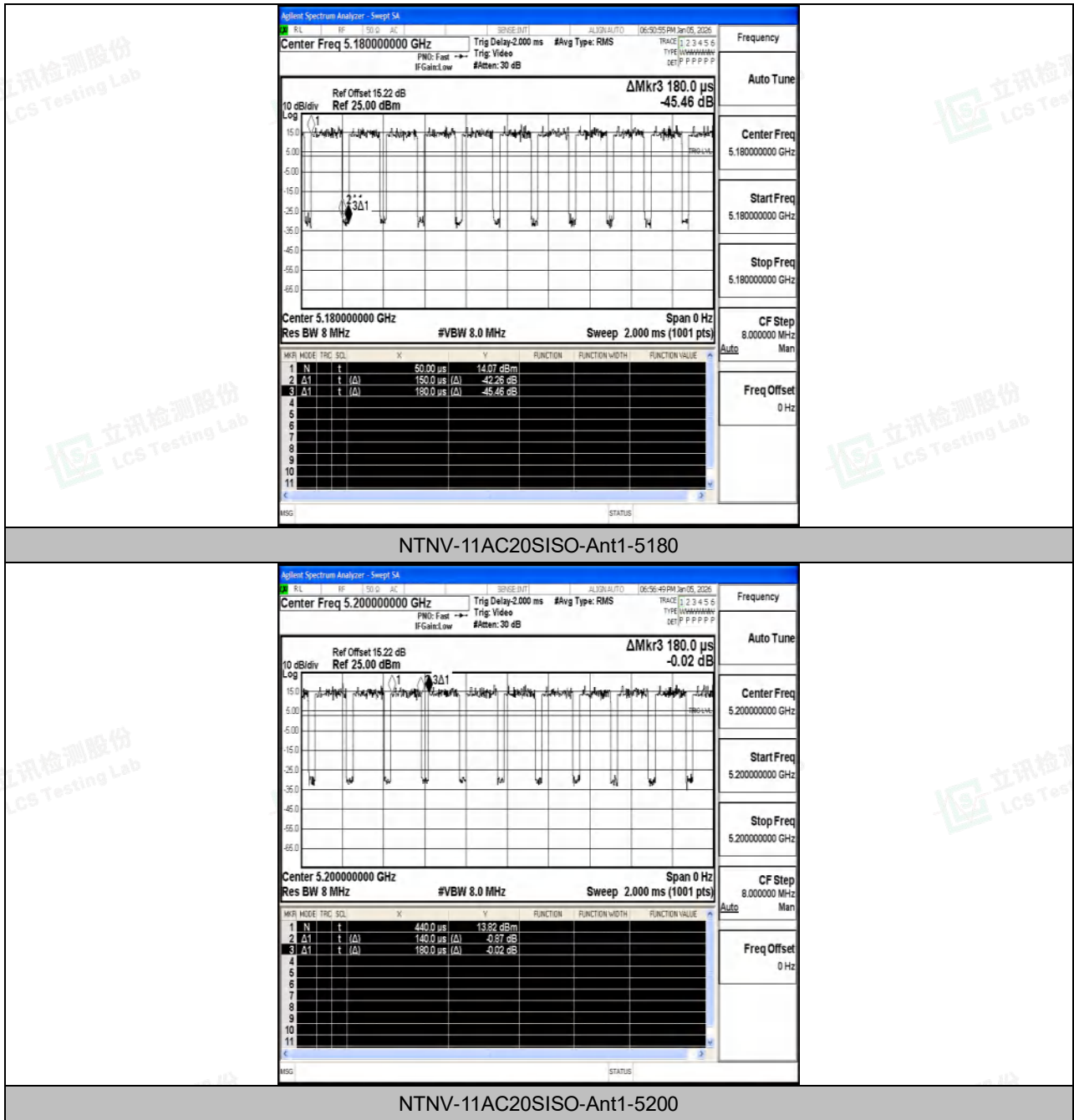


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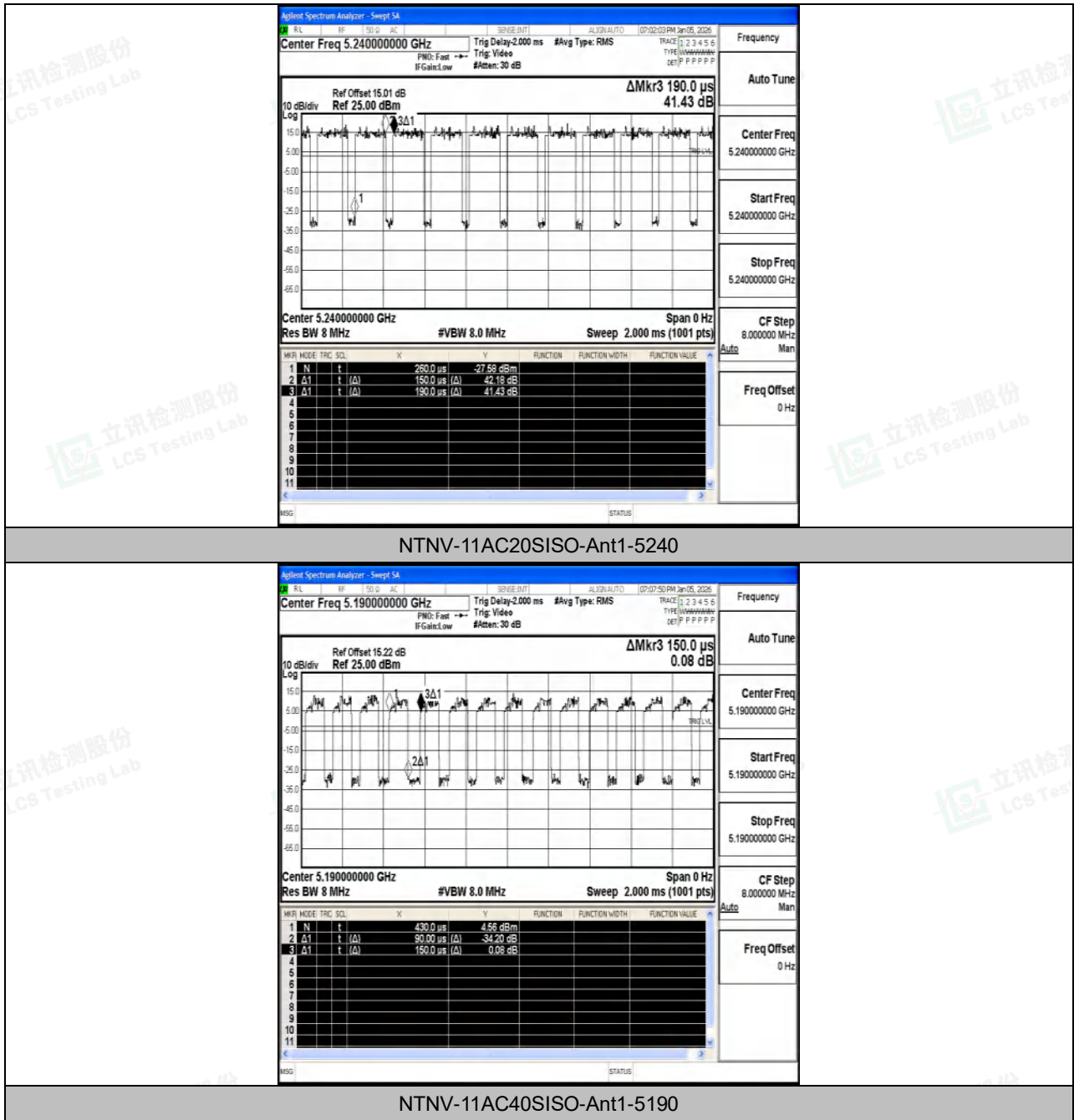


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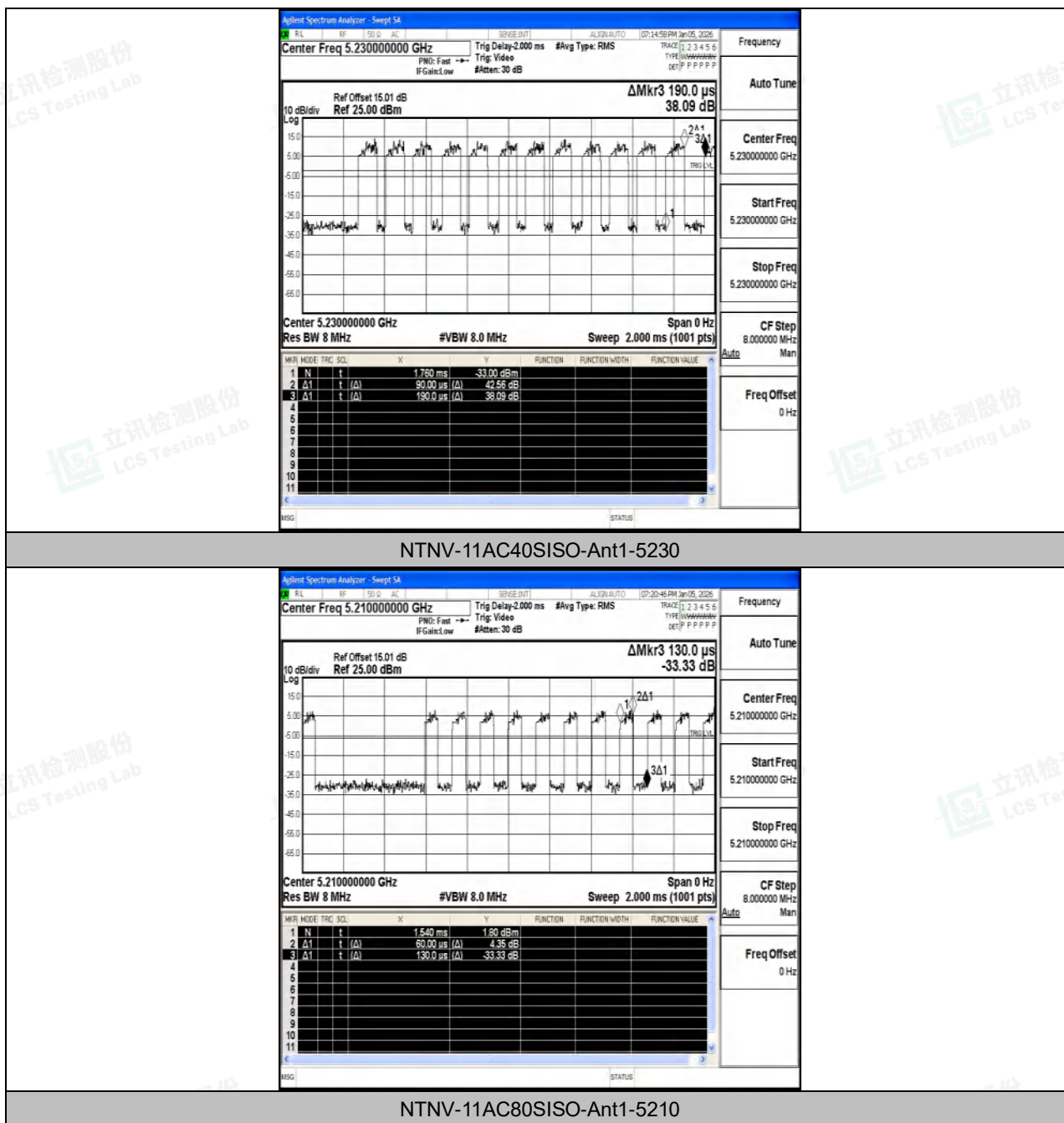


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Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Dc Factor [%]	1/T
11A	Ant2	5180	1.39	1.42	97.89	0.09	0.72
11A	Ant2	5200	1.38	1.42	97.18	0.12	0.72
11A	Ant2	5240	1.39	1.43	97.20	0.12	0.72
11N20SISO	Ant2	5180	1.30	1.33	97.74	0.10	0.77
11N20SISO	Ant2	5200	1.30	1.33	97.74	0.10	0.77
11N20SISO	Ant2	5240	1.30	1.34	97.01	0.13	0.77
11N40SISO	Ant2	5190	0.65	0.69	94.20	0.26	1.54
11N40SISO	Ant2	5230	0.65	0.68	95.59	0.20	1.54
11AC20SISO	Ant2	5180	0.14	0.18	77.78	1.09	7.14
11AC20SISO	Ant2	5200	0.15	0.18	83.33	0.79	6.67
11AC20SISO	Ant2	5240	0.15	0.18	83.33	0.79	6.67
11AC40SISO	Ant2	5190	0.65	0.68	95.59	0.20	1.54
11AC40SISO	Ant2	5230	0.65	0.68	95.59	0.20	1.54
11AC80SISO	Ant2	5210	0.32	0.36	88.89	0.51	3.13



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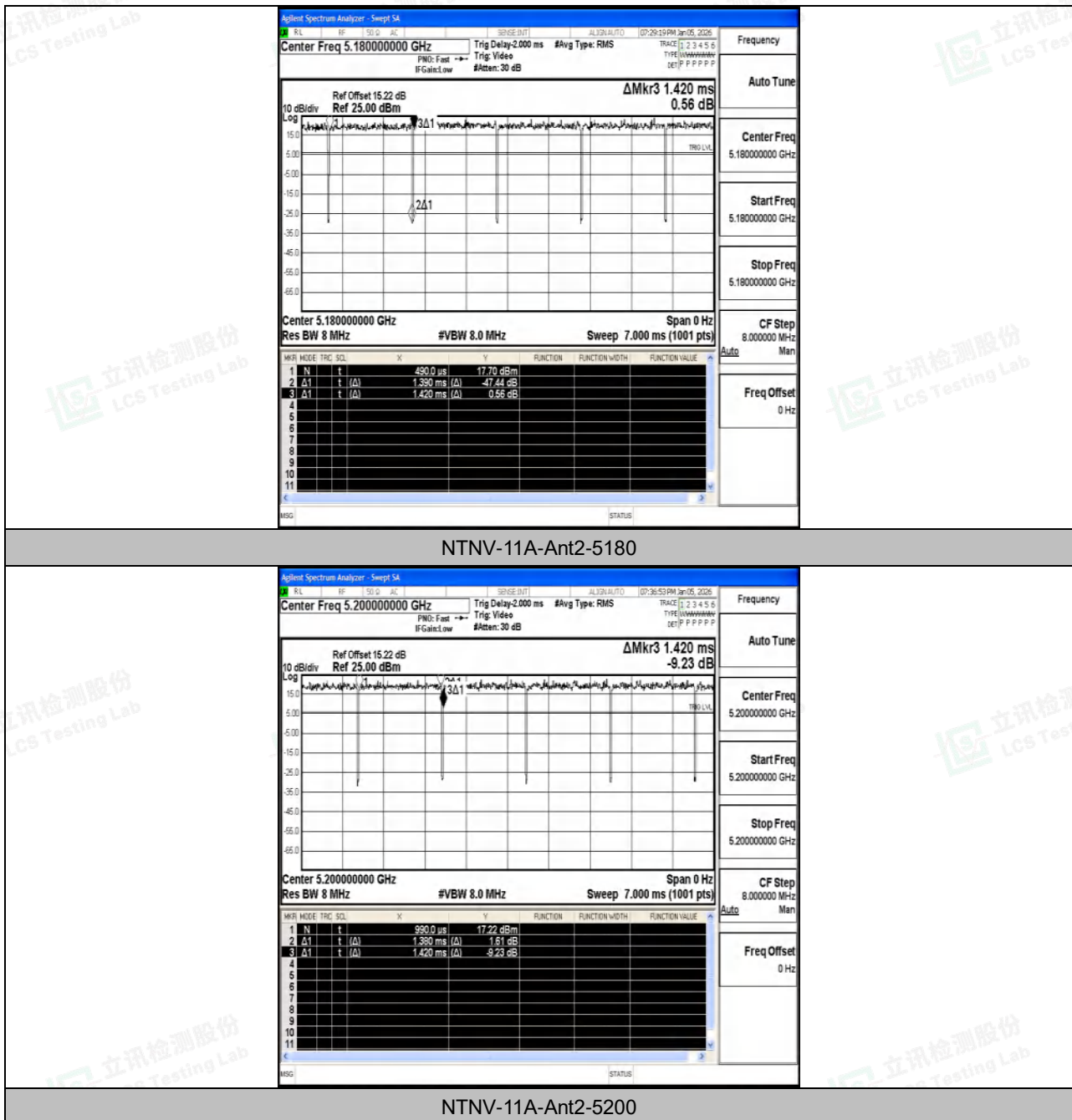
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Test Graphs

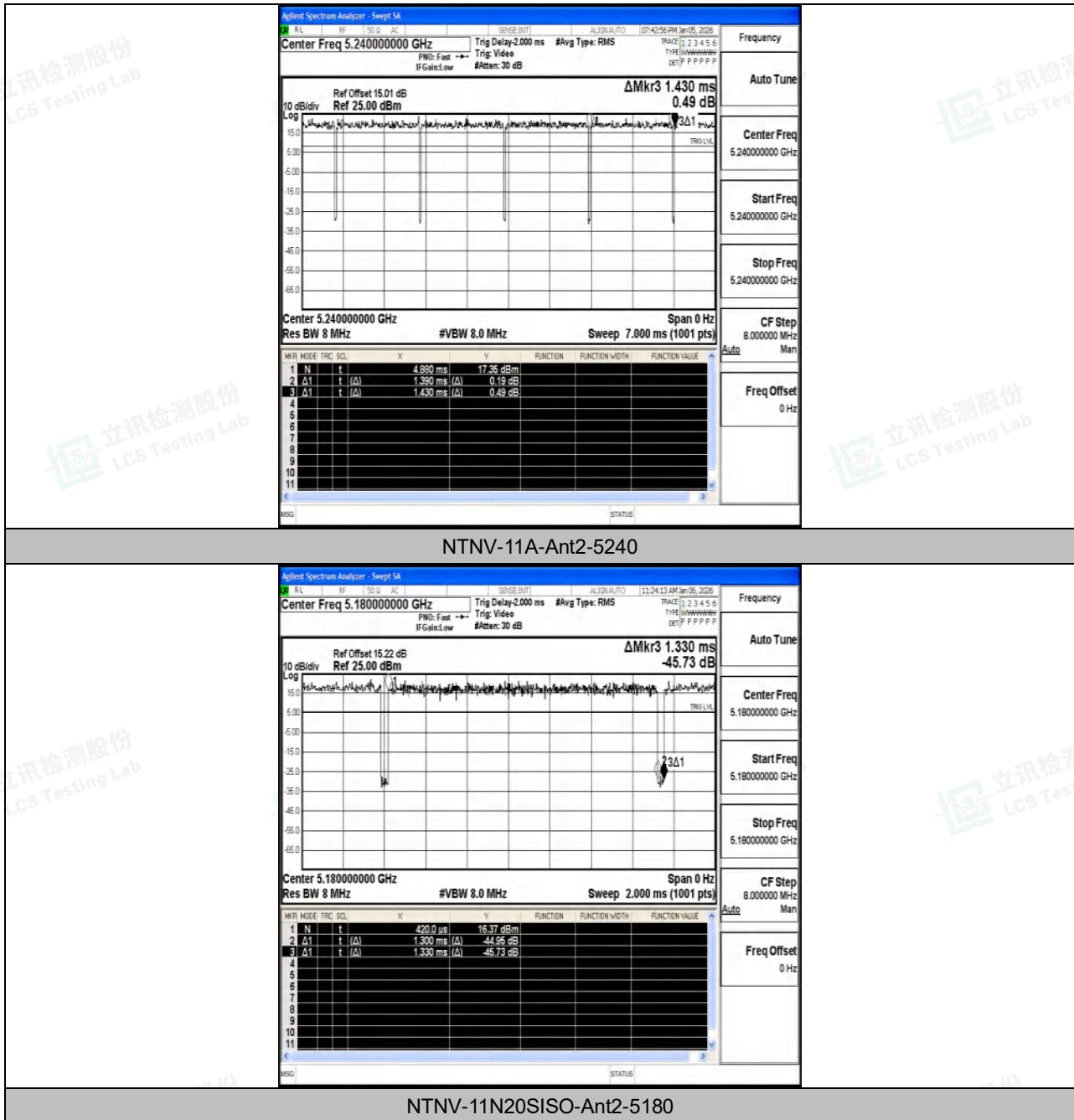


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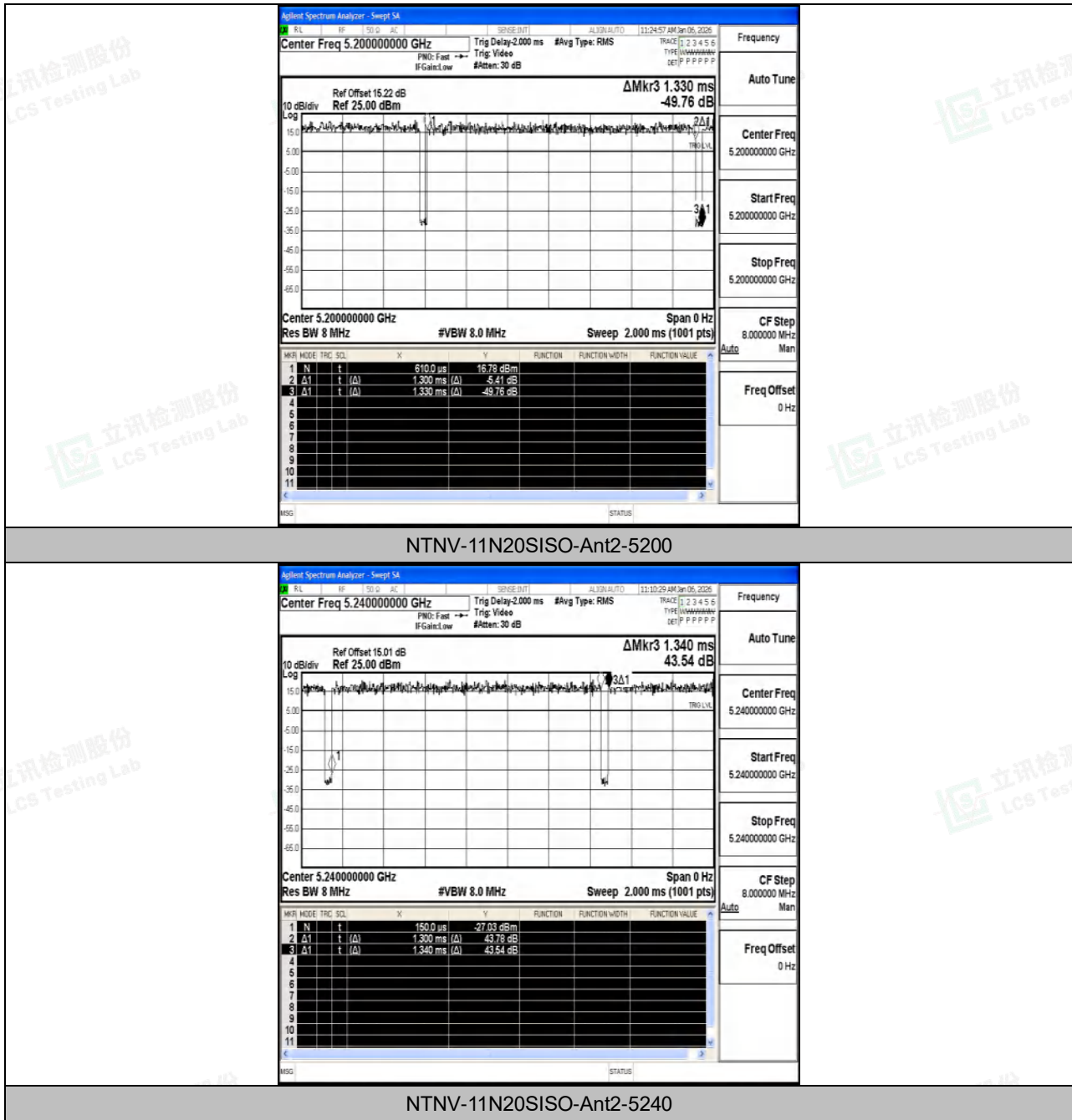


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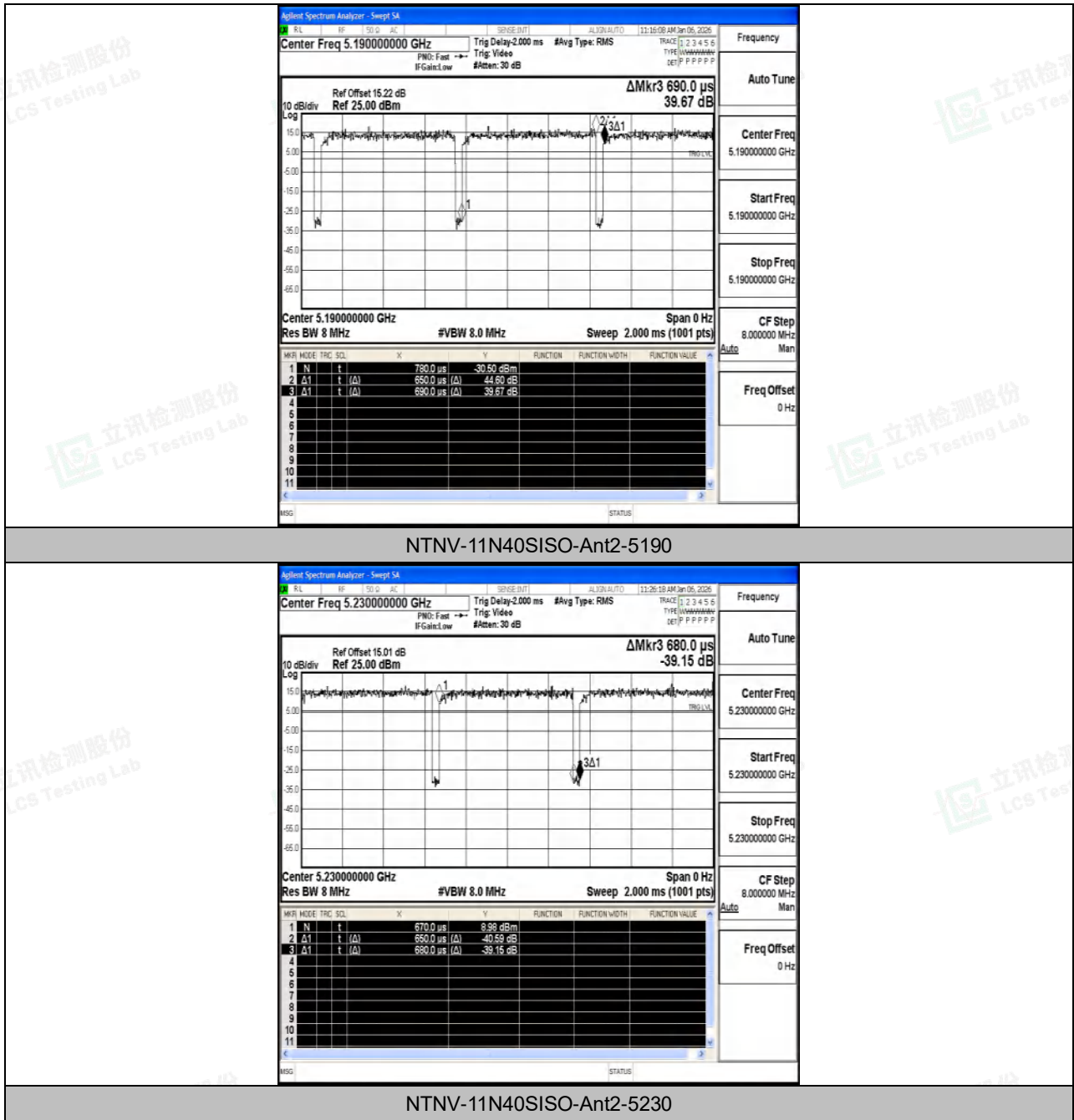


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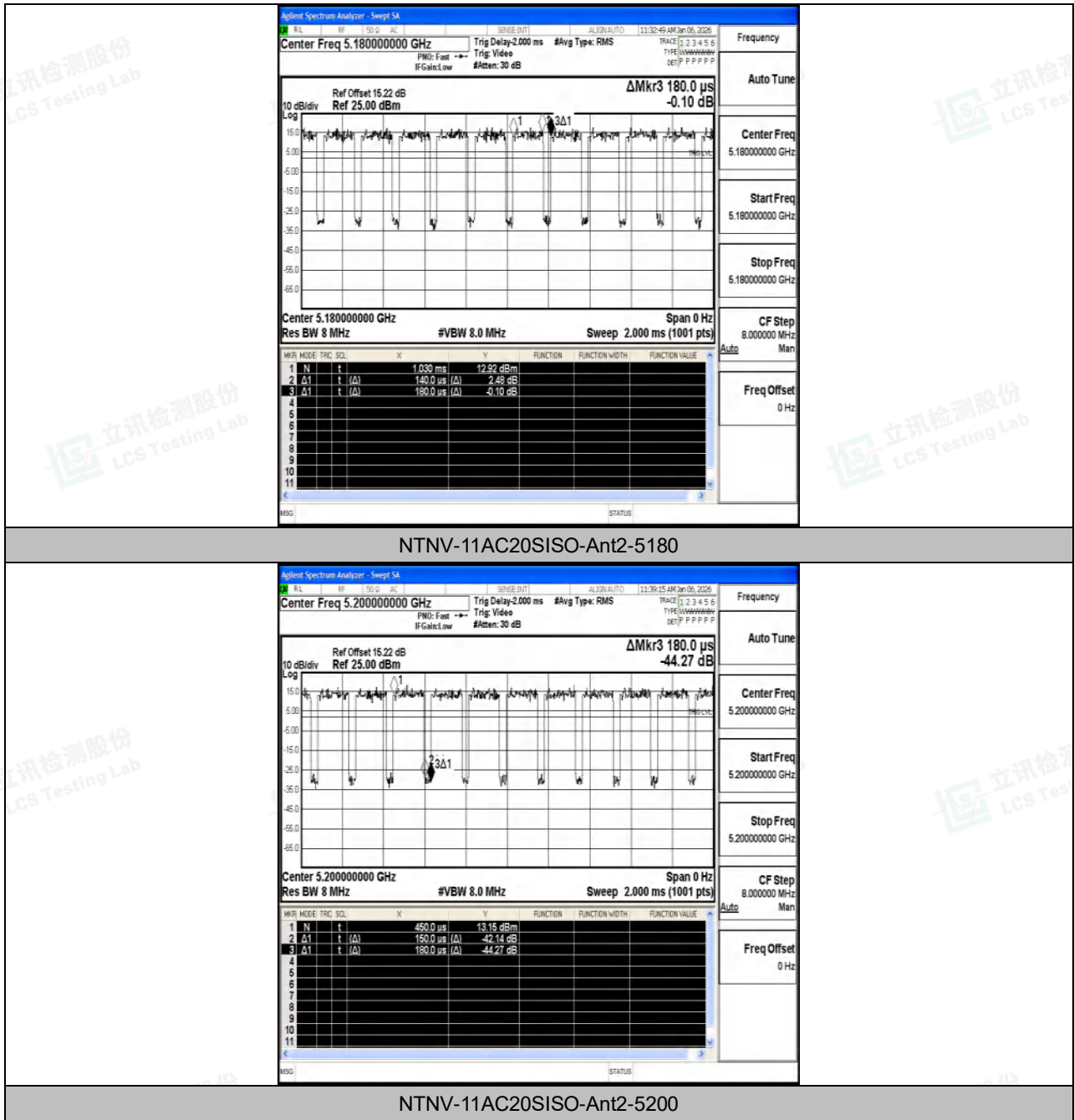


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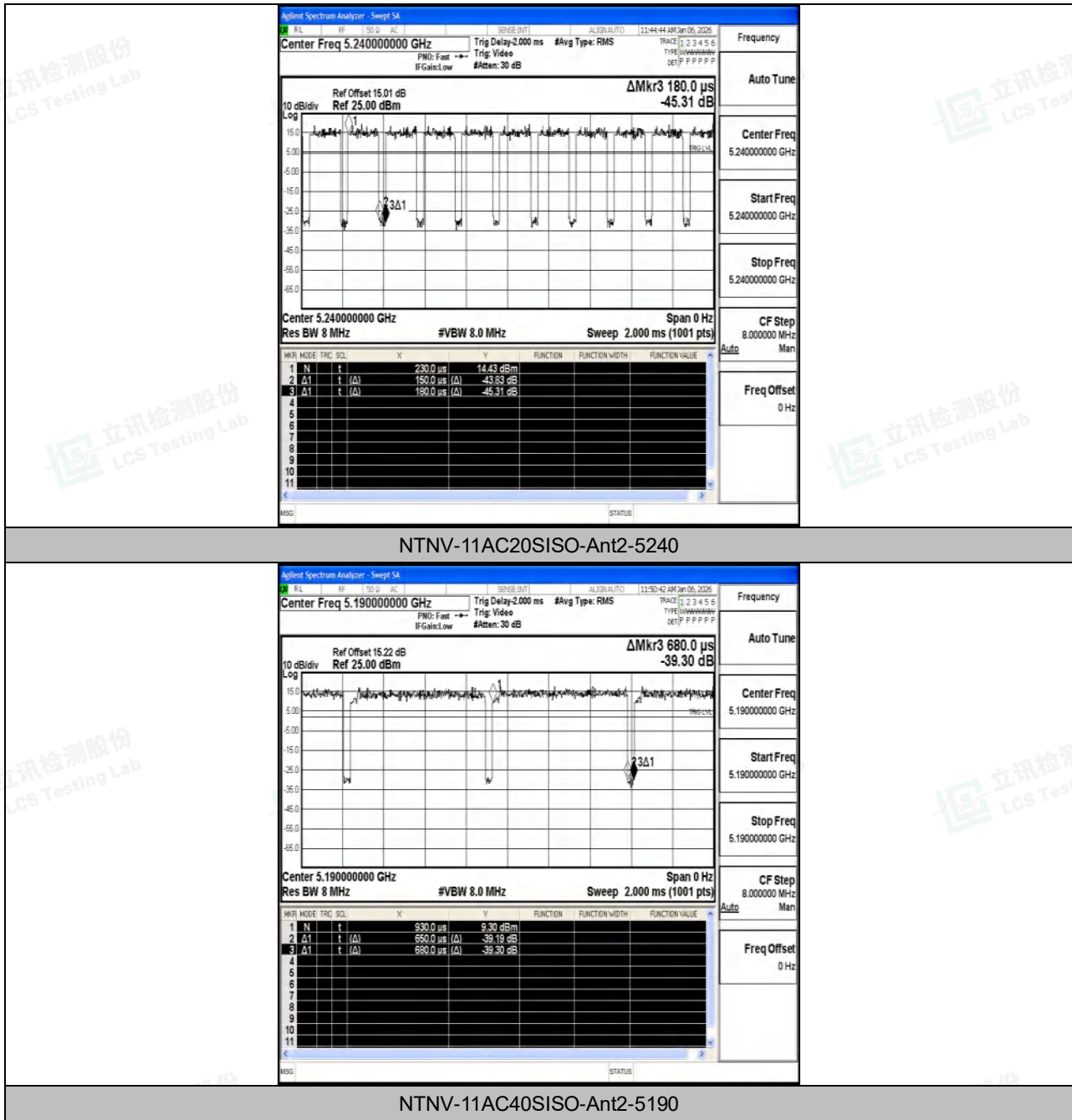


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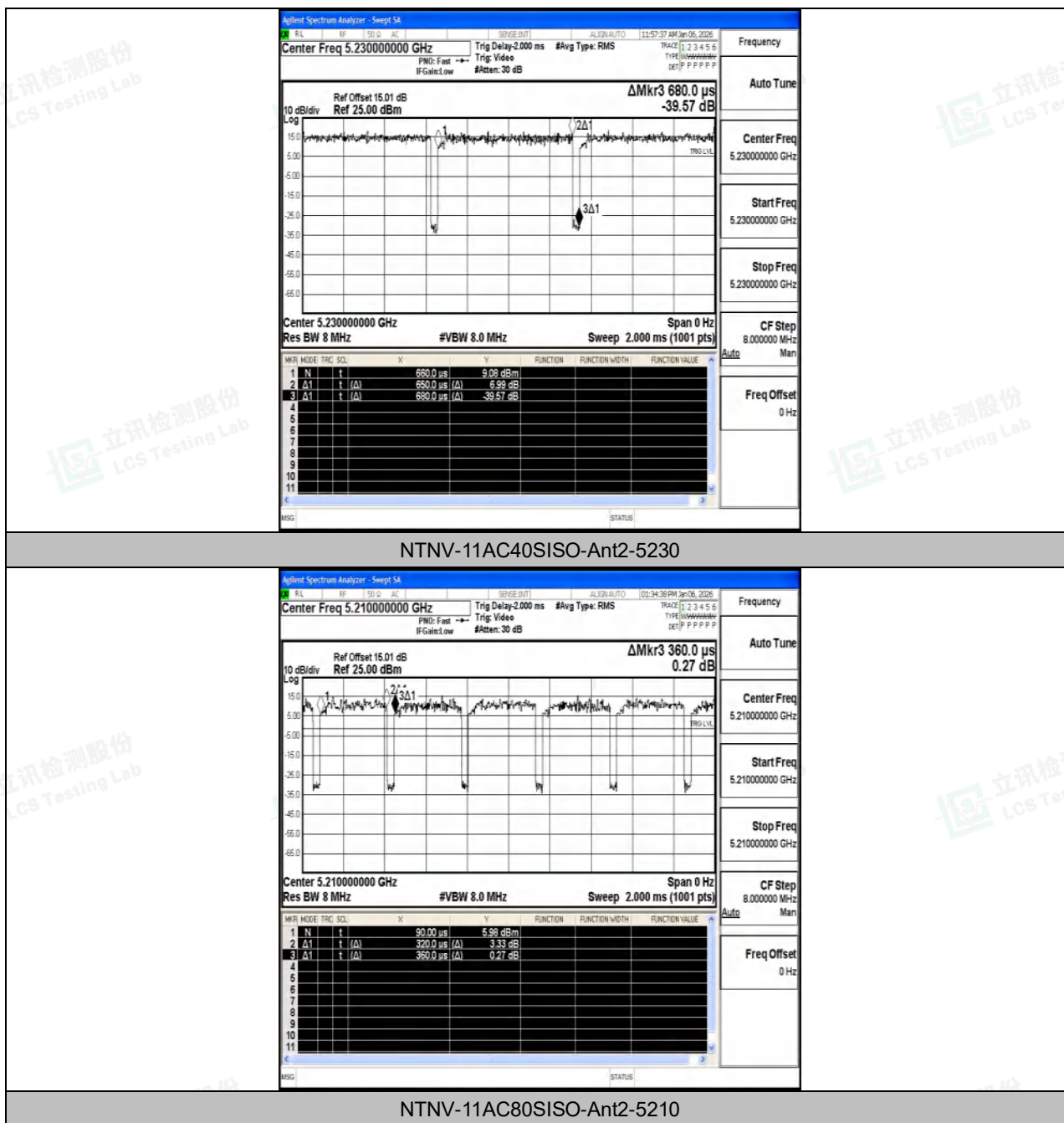


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