

Case No. : <u>GTS20230508024-1-46</u>	
Ambient Condition: <u>24</u> °C, <u>49</u> %RH, Atmos100.1Kpa,	
Test Date: <u>2023.6.6</u>	Test Engineer: <u>Jenny zeng</u>

Appendix D.1: Emission Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5180	23.600	5168.680	5192.280	---	---
		5200	24.240	5187.960	5212.200	---	---
		5240	23.480	5228.120	5251.600	---	---
11N20SISO	Ant2	5180	23.720	5168.400	5192.120	---	---
		5200	24.040	5188.000	5212.040	---	---
		5240	24.600	5227.440	5252.040	---	---
11N40SISO	Ant2	5190	45.920	5167.680	5213.600	---	---
		5230	47.200	5206.320	5253.520	---	---
11AC20SISO	Ant2	5180	24.200	5167.880	5192.080	---	---
		5200	25.600	5187.480	5213.080	---	---
		5240	25.000	5226.840	5251.840	---	---
11AC40SISO	Ant2	5190	46.480	5167.040	5213.520	---	---
		5230	46.640	5206.400	5253.040	---	---
11AC80SISO	Ant2	5210	84.800	5167.760	5252.560	---	---

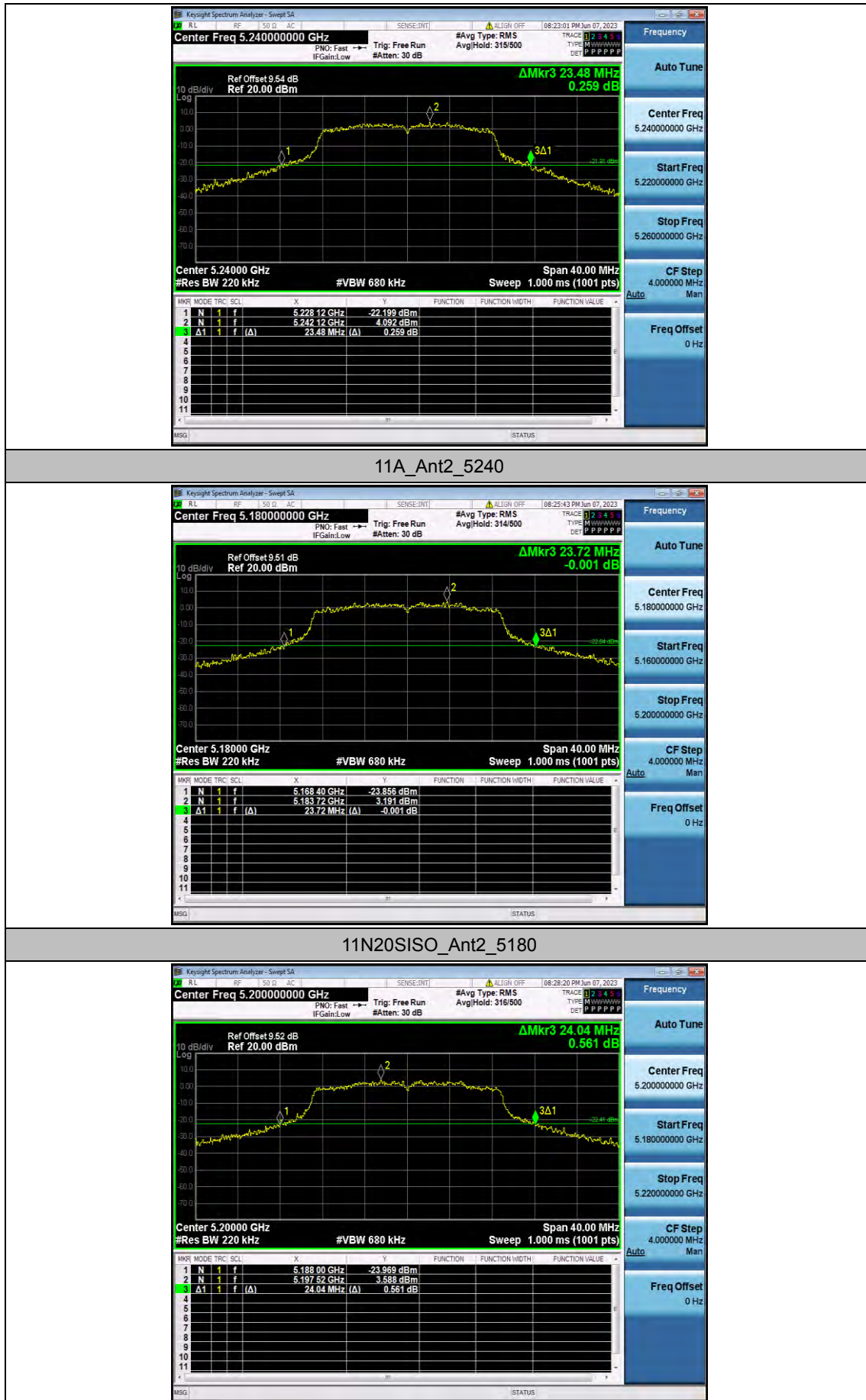
Test Graphs



11A_Ant2_5180



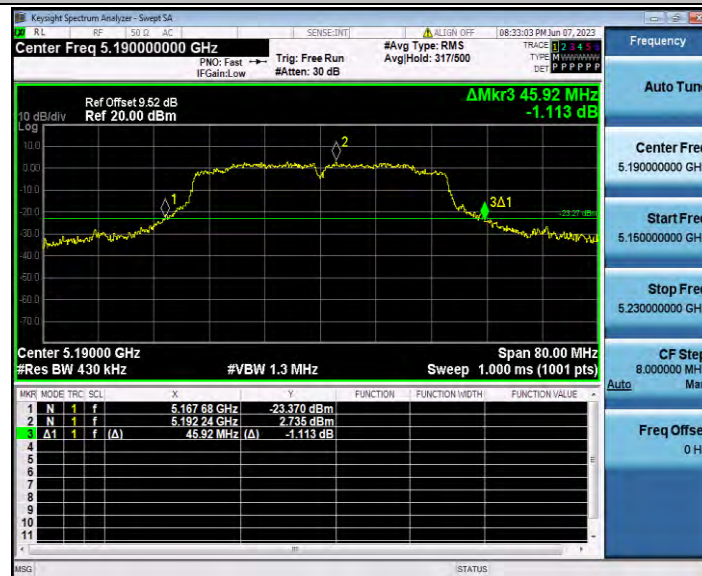
11A_Ant2_5200



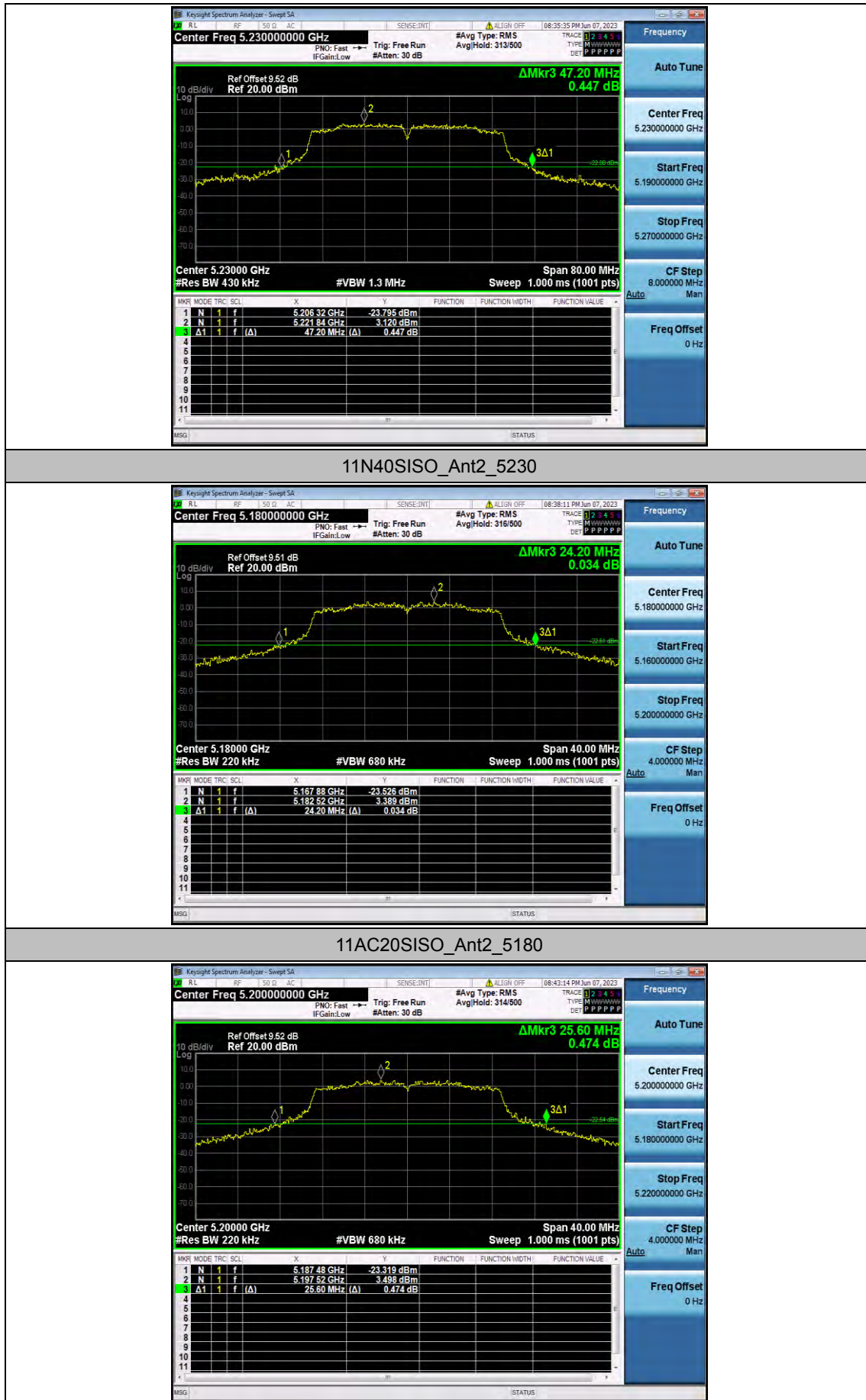
11N20SISO_Ant2_5200



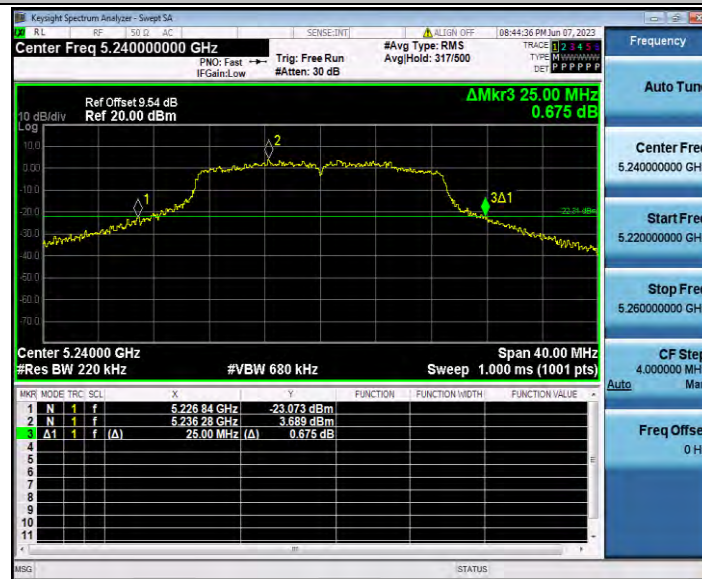
11N20SISO_Ant2_5240



11N40SISO_Ant2_5190



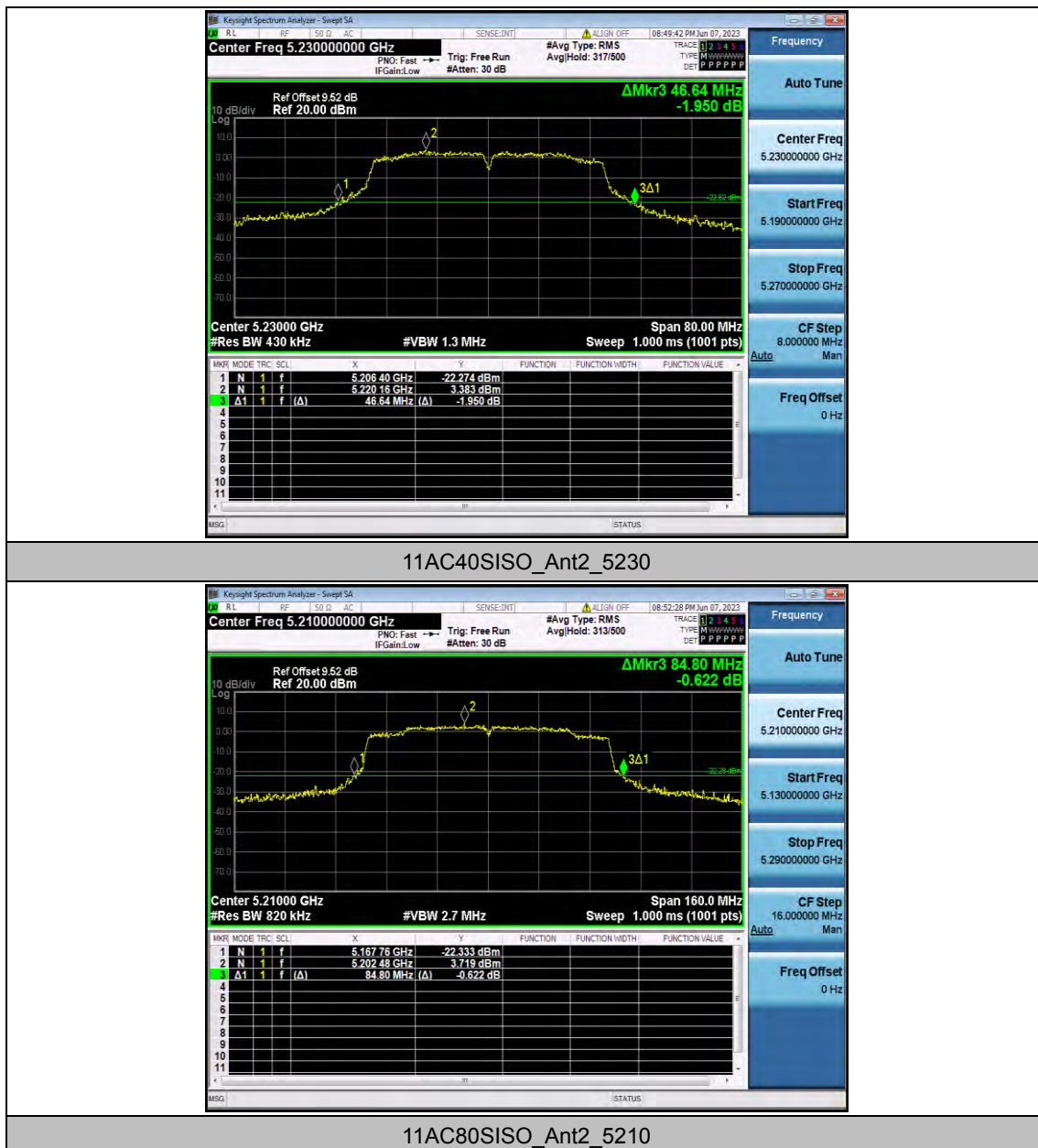
11AC20SISO_Ant2_5200



11AC20SISO_Ant2_5240



11AC40SISO_Ant2_5190

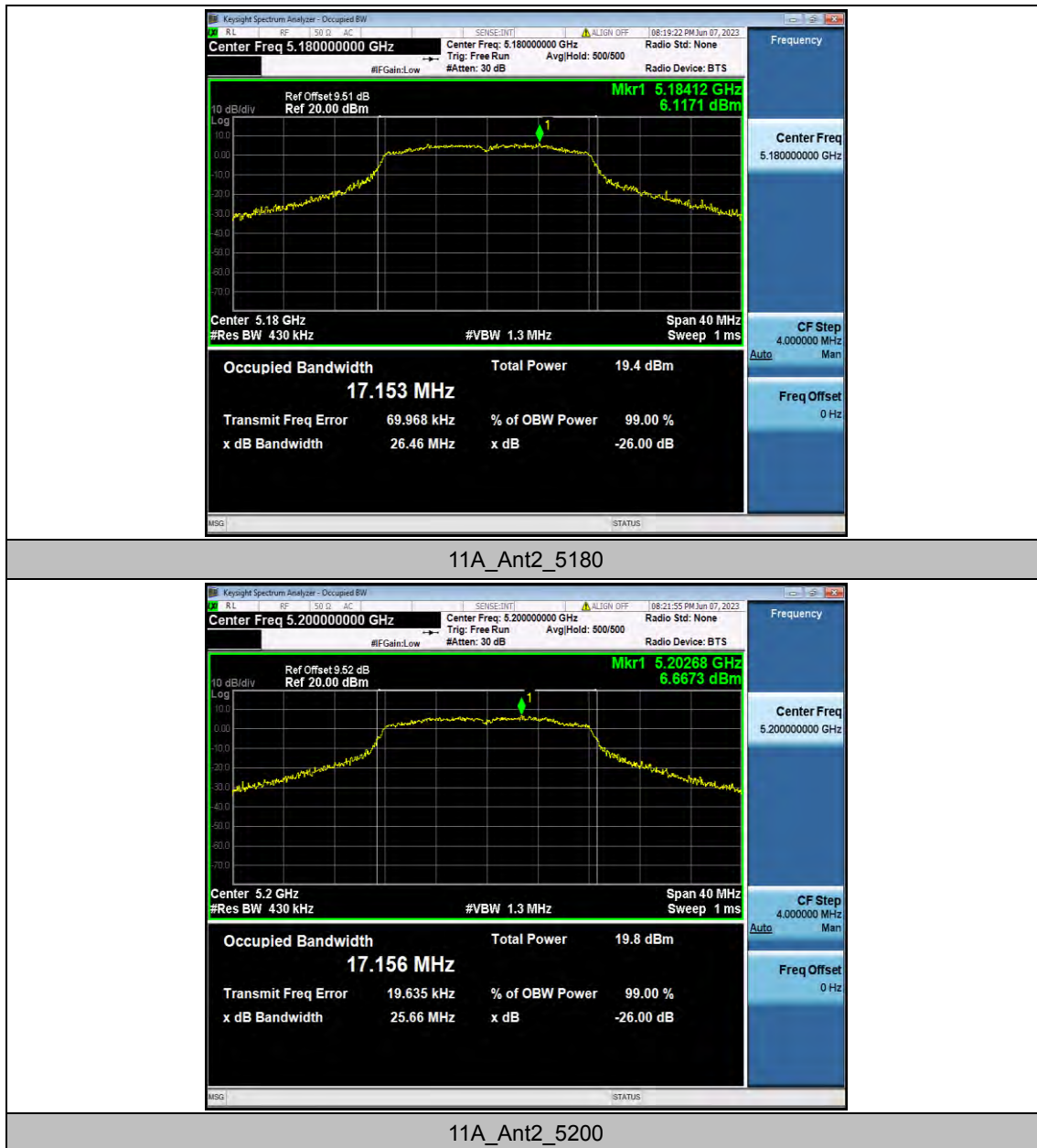


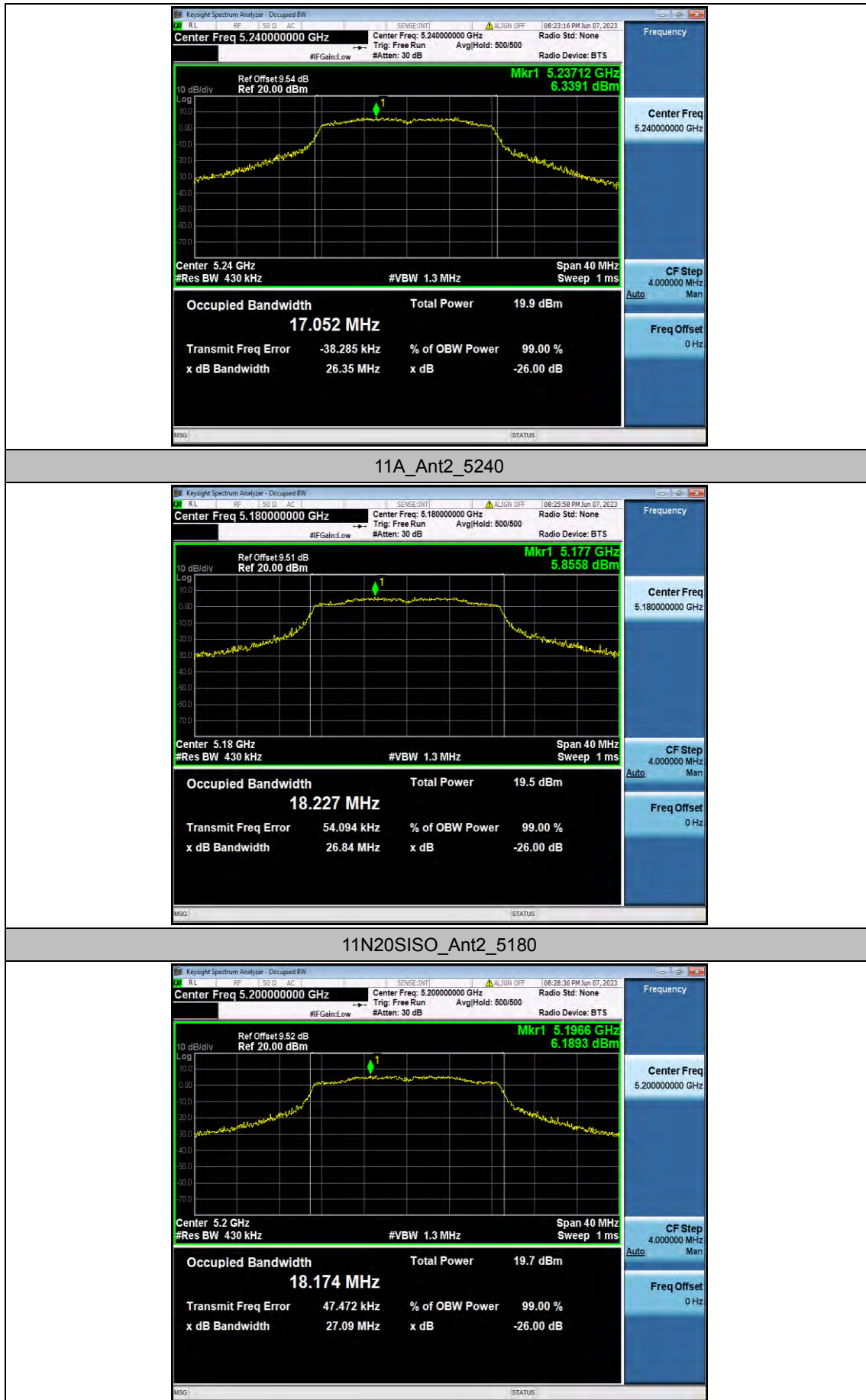
Appendix D.2: Occupied channel bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5180	17.153	5171.493	5188.646	---	---
		5200	17.156	5191.442	5208.598	---	---
		5240	17.052	5231.436	5248.488	---	---
11N20SISO	Ant2	5180	18.227	5170.941	5189.168	---	---
		5200	18.174	5190.960	5209.134	---	---
		5240	18.213	5230.871	5249.084	---	---
11N40SISO	Ant2	5190	36.429	5171.815	5208.244	---	---
		5230	36.474	5211.698	5248.172	---	---
11AC20SISO	Ant2	5180	18.168	5170.954	5189.122	---	---
		5200	18.194	5190.933	5209.127	---	---
		5240	18.215	5230.843	5249.058	---	---
11AC40SISO	Ant2	5190	36.434	5171.890	5208.324	---	---
		5230	36.433	5211.723	5248.156	---	---
11AC80SISO	Ant2	5210	74.954	5172.534	5247.488	---	---

Test Graphs





11N20SISO_Ant2_5200



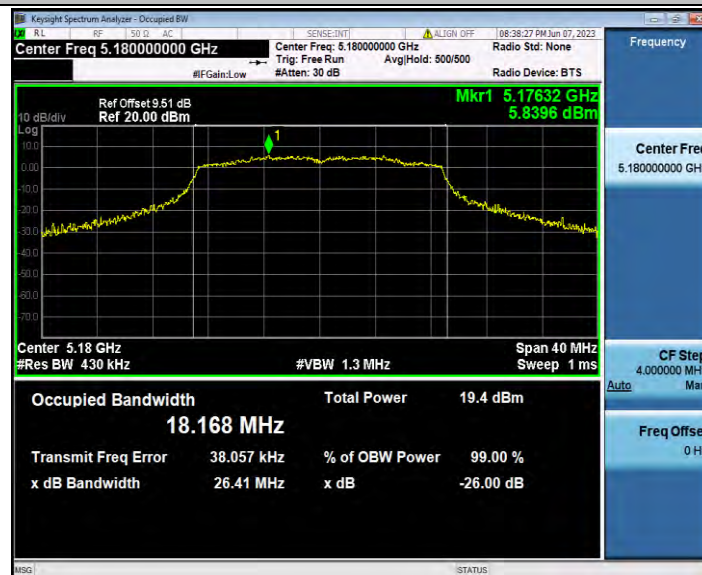
11N20SISO_Ant2_5240



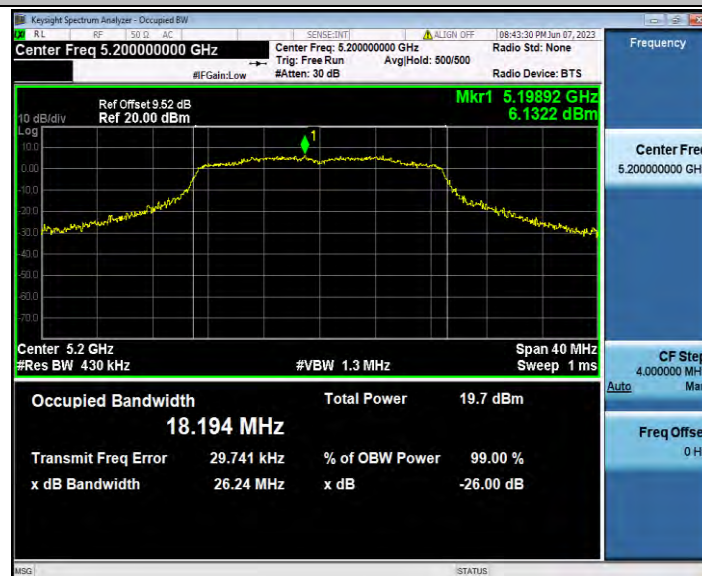
11N40SISO_Ant2_5190



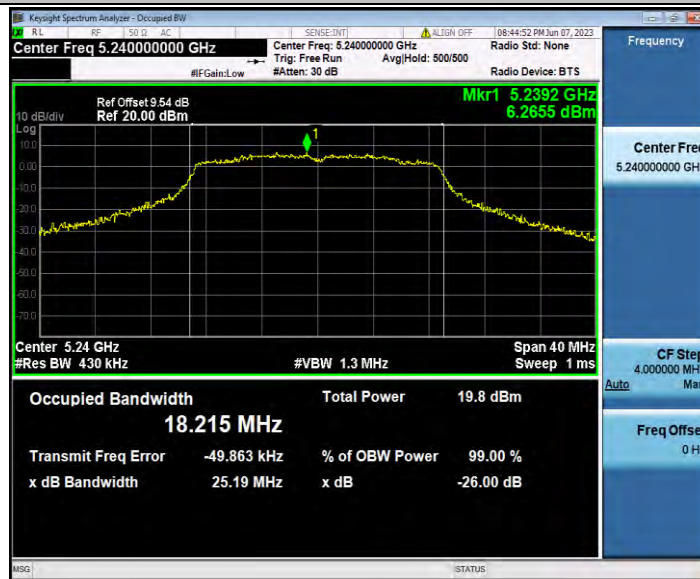
11N40SISO_Ant2_5230



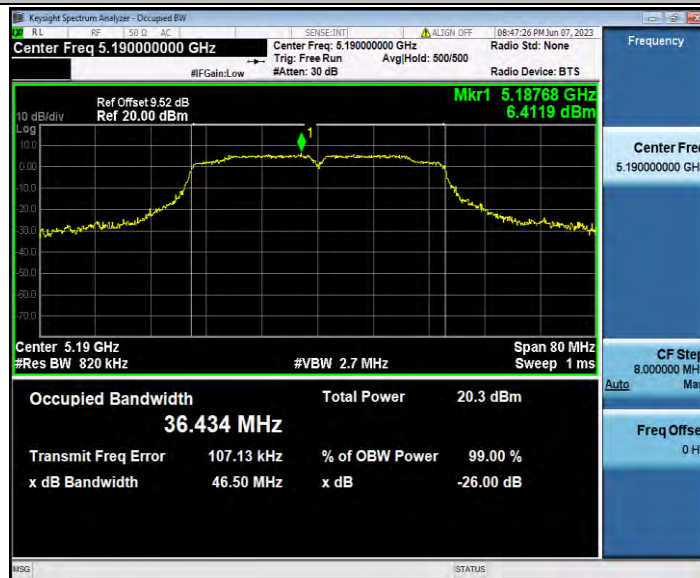
11AC20SISO_Ant2_5180



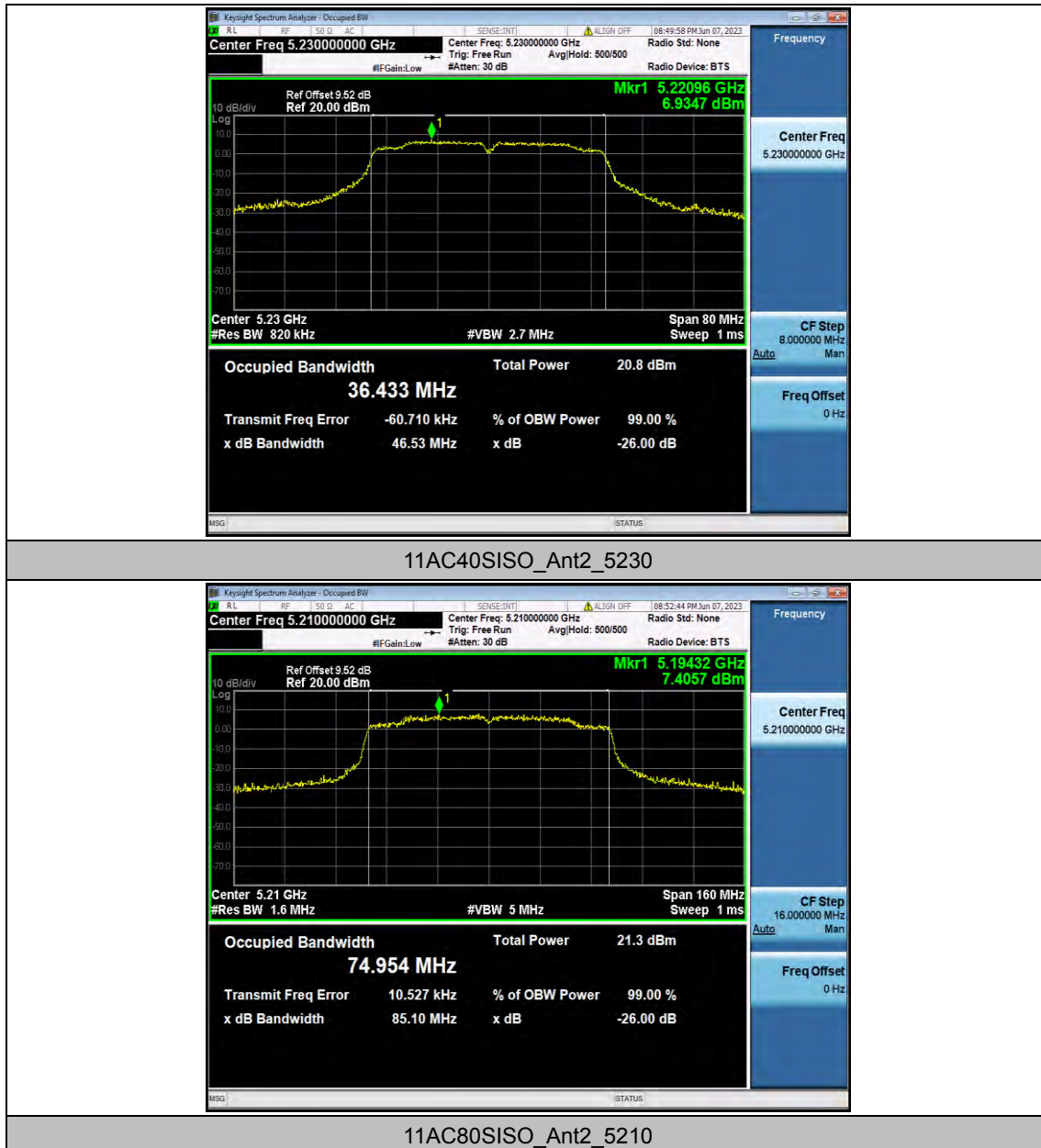
11AC20SISO_Ant2_5200



11AC20SISO_Ant2_5240



11AC40SISO_Ant2_5190

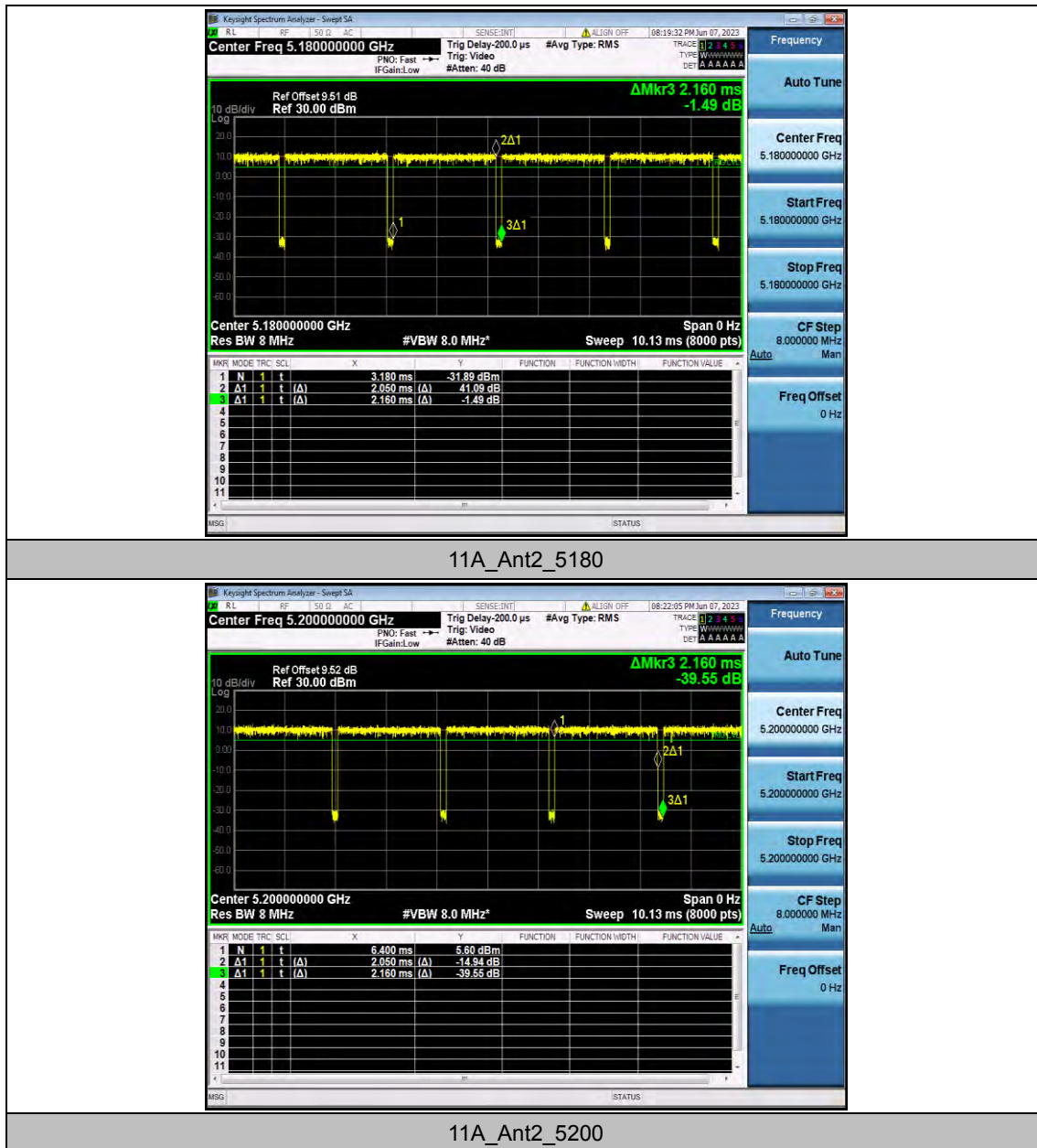


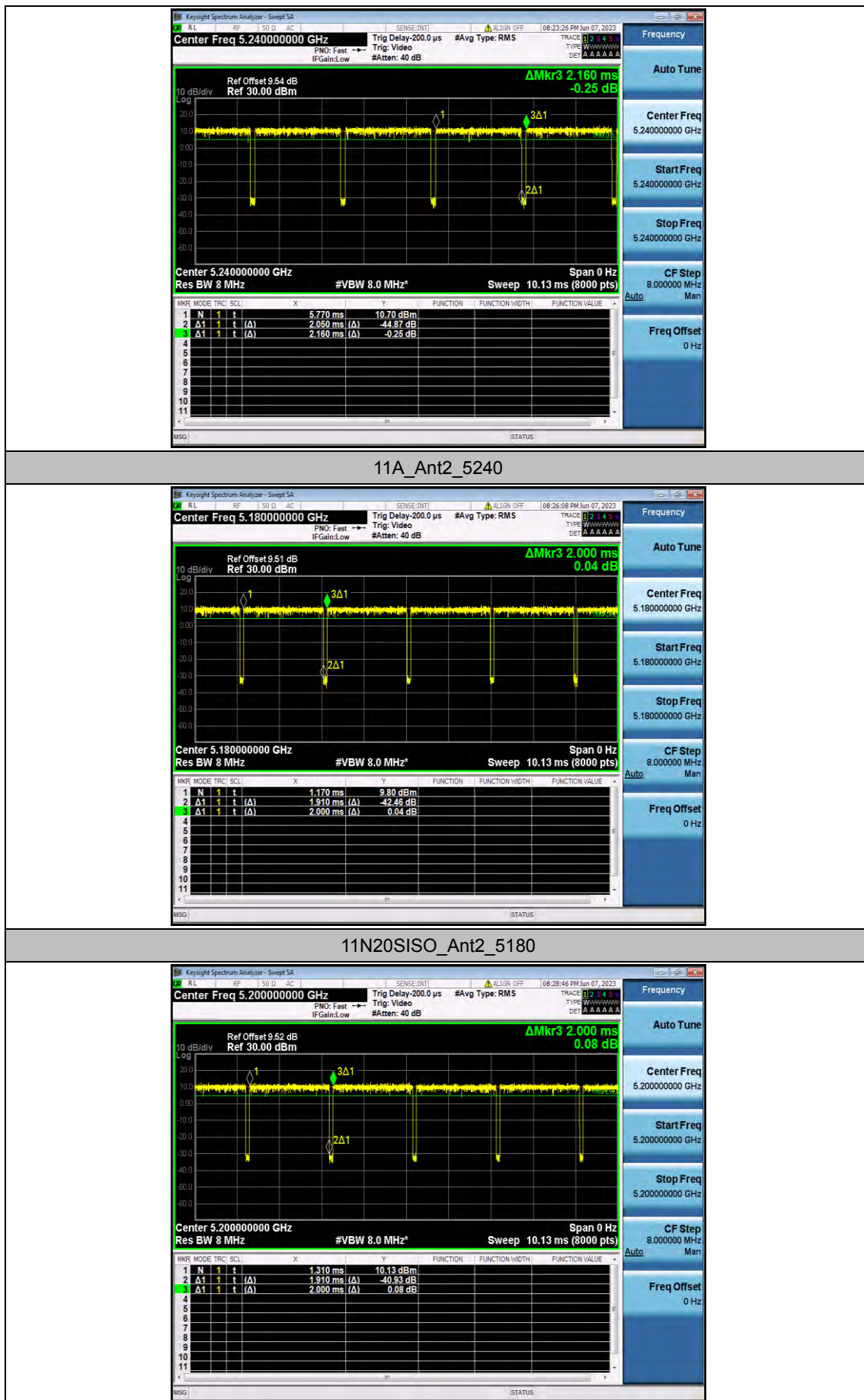
Appendix D.3: Duty Cycle

Test Result

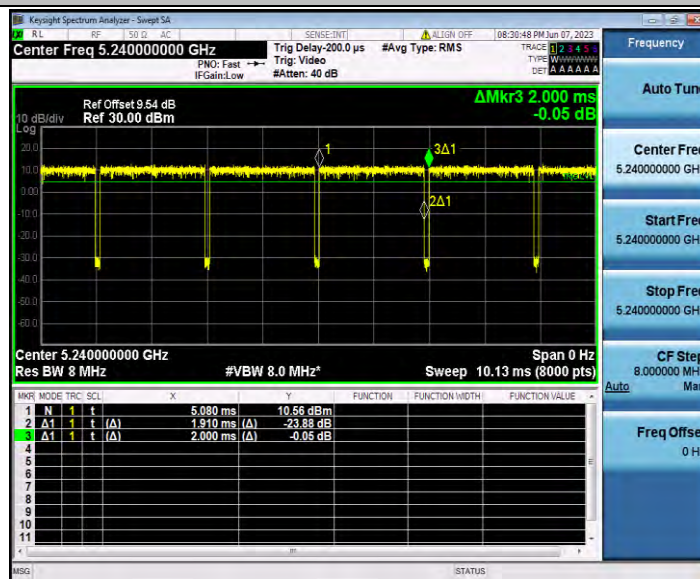
Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant2	5180	2.05	2.16	94.91
		5200	2.05	2.16	94.91
		5240	2.05	2.16	94.91
11N20SISO	Ant2	5180	1.91	2.00	95.50
		5200	1.91	2.00	95.50
		5240	1.91	2.00	95.50
11N40SISO	Ant2	5190	0.93	1.11	83.78
		5230	0.94	1.11	84.68
11AC20SISO	Ant2	5180	1.91	2.00	95.50
		5200	1.92	2.00	96.00
		5240	1.92	2.01	95.52
11AC40SISO	Ant2	5190	0.94	1.12	83.93
		5230	0.95	1.12	84.82
11AC80SISO	Ant2	5210	0.46	0.55	83.64

Test Graphs

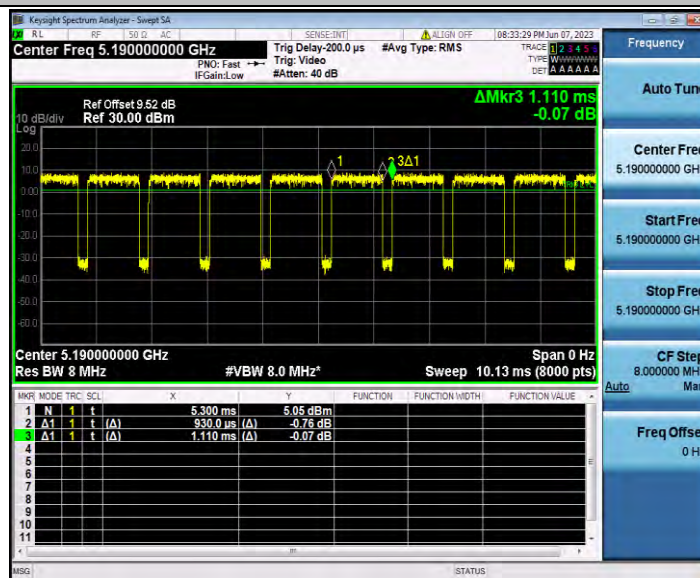




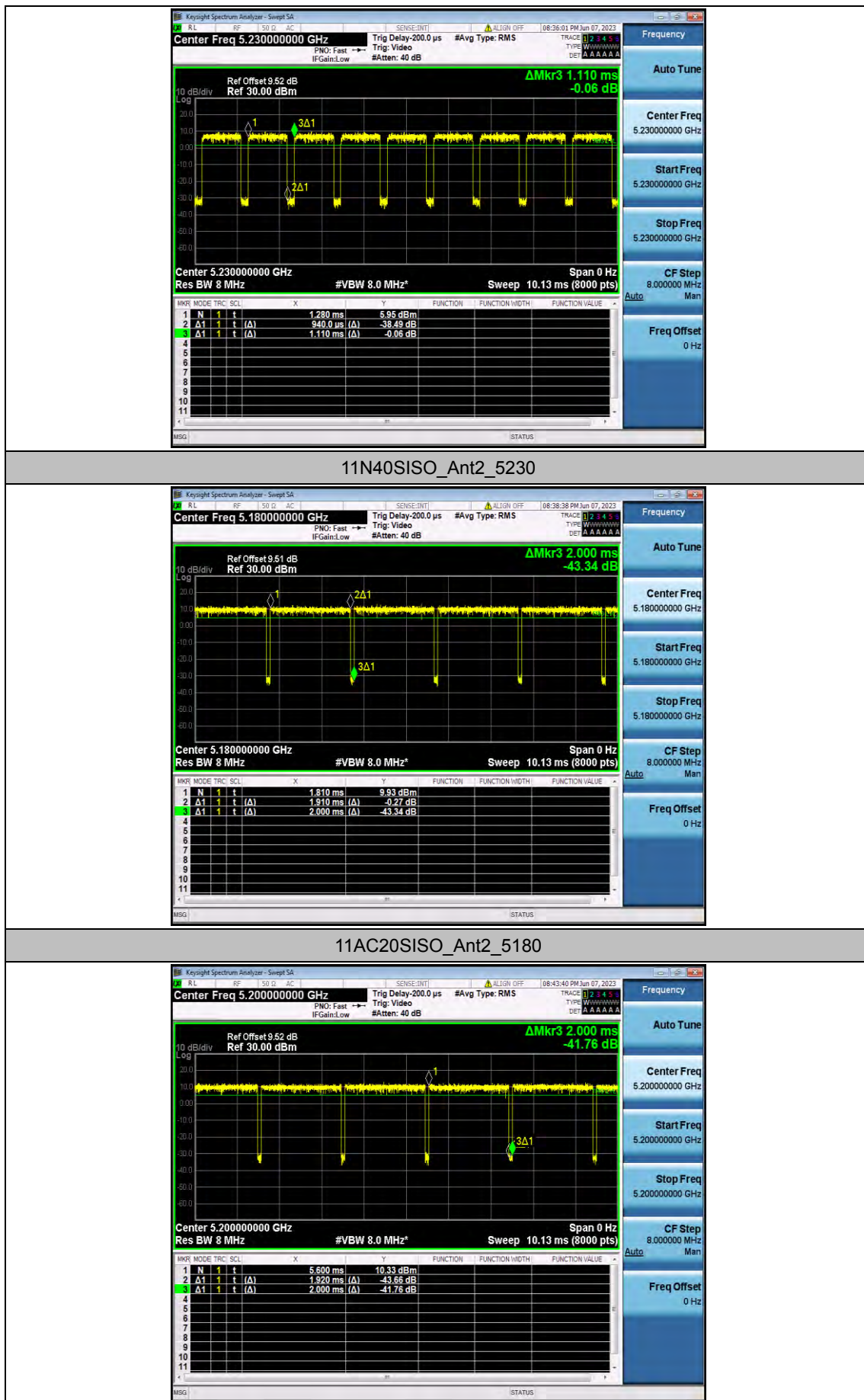
11N20SISO_Ant2_5200



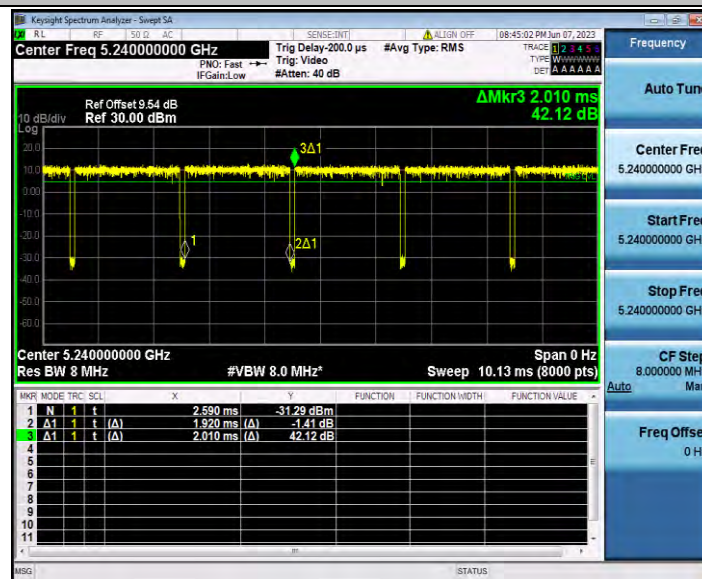
11N20SISO_Ant2_5240



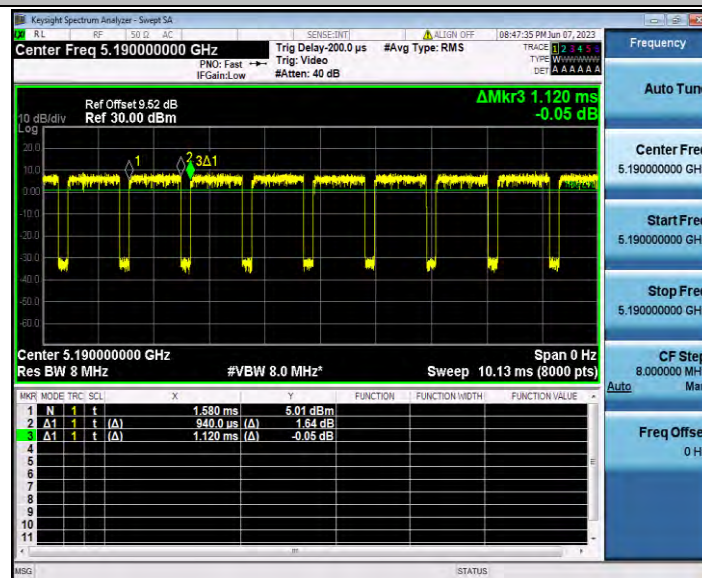
11N40SISO_Ant2_5190



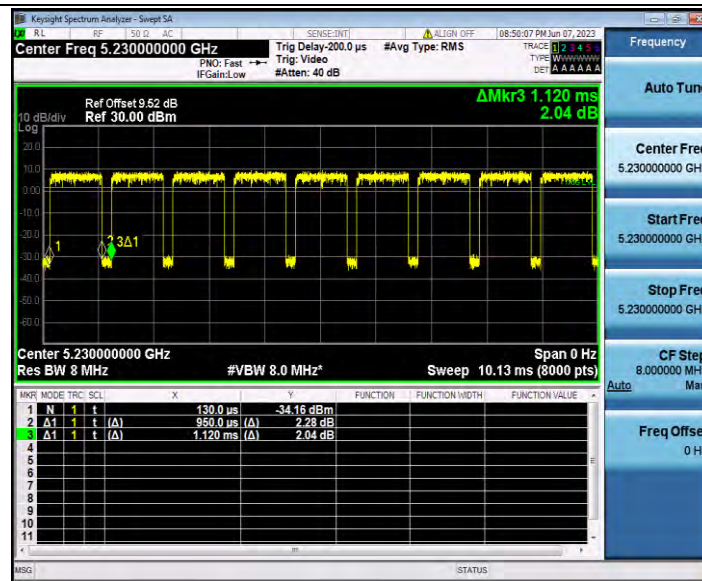
11AC20SISO_Ant2_5200



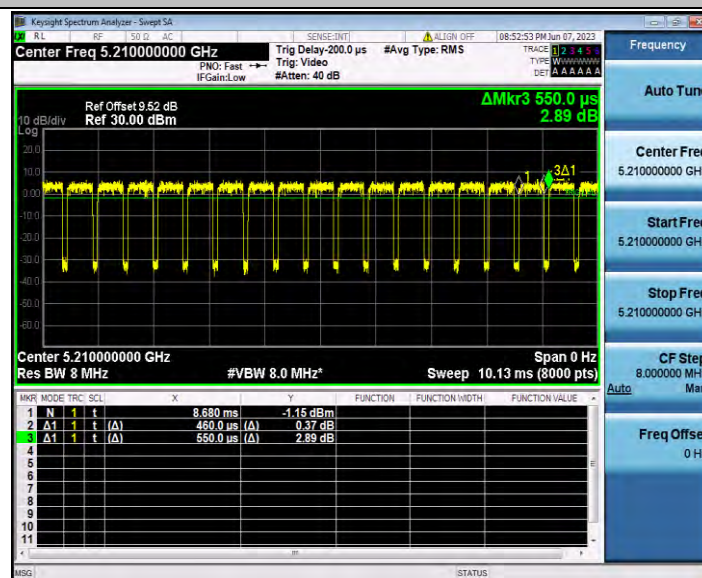
11AC20SISO_Ant2_5240



11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



11AC80SISO_Ant2_5210

Appendix D.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency[M Hz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant2	5180	12.29	94.91	0.23	12.52	≤23.98	PASS
		5200	12.67	94.91	0.23	12.90	≤23.98	PASS
		5240	12.82	94.91	0.23	13.05	≤23.98	PASS
11N20SISO	Ant2	5180	12.37	95.50	0.20	12.57	≤23.98	PASS
		5200	12.62	95.50	0.20	12.82	≤23.98	PASS
		5240	12.74	95.50	0.20	12.94	≤23.98	PASS
11N40SISO	Ant2	5190	11.94	83.78	0.77	12.71	≤23.98	PASS
		5230	12.35	84.68	0.72	13.07	≤23.98	PASS
11AC20SISO	Ant2	5180	12.34	95.50	0.20	12.54	≤23.98	PASS
		5200	12.59	96.00	0.18	12.77	≤23.98	PASS
		5240	12.72	95.52	0.20	12.92	≤23.98	PASS
11AC40SISO	Ant2	5190	11.91	83.93	0.76	12.67	≤23.98	PASS
		5230	12.46	84.82	0.72	13.18	≤23.98	PASS
11AC80SISO	Ant2	5210	11.77	83.64	0.78	12.55	≤23.98	PASS

Note: The Duty Cycle Factor is compensated in the graph.

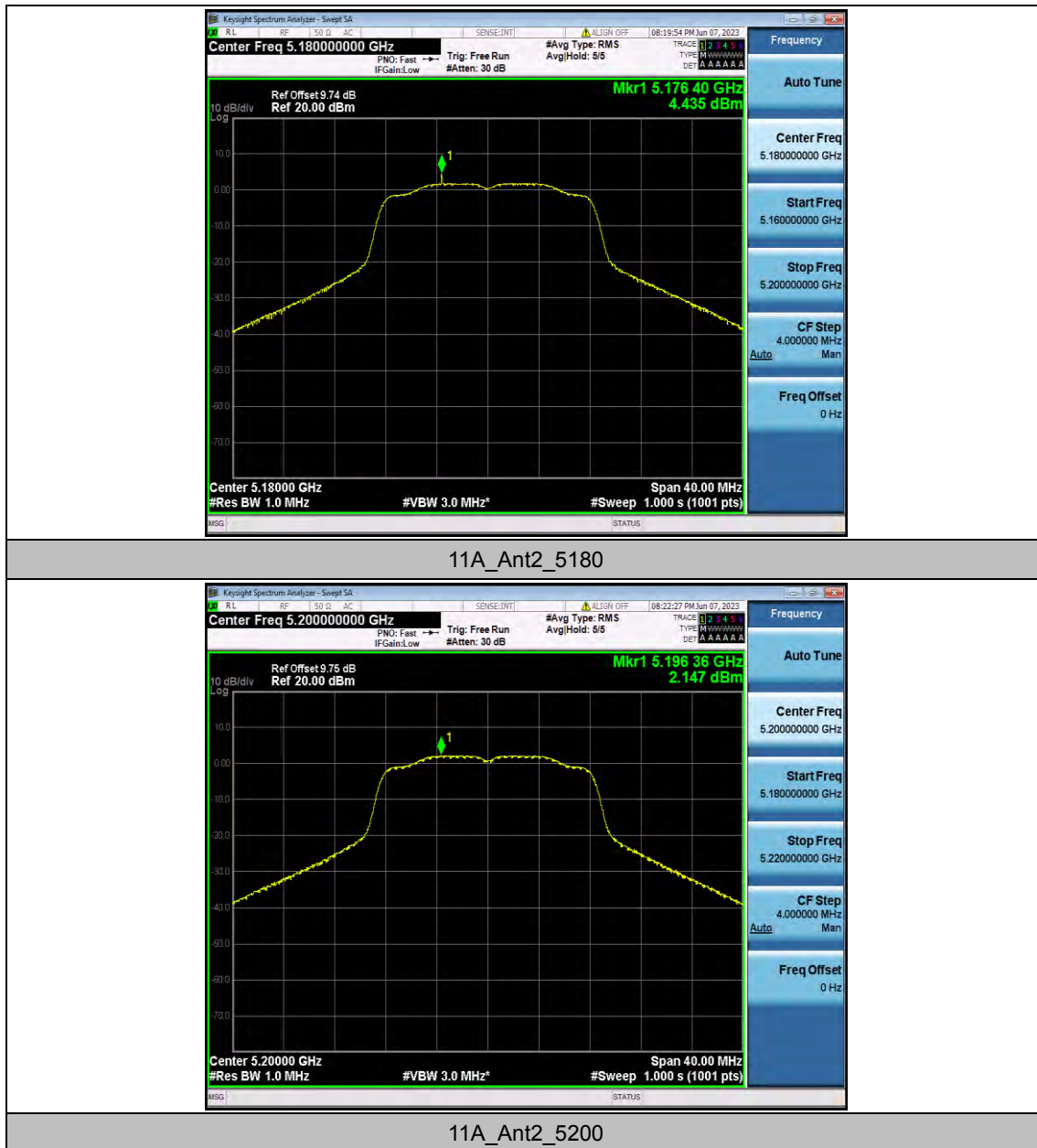
Appendix D.5: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant2	5180	4.44	≤ 11.00	PASS
		5200	2.15	≤ 11.00	PASS
		5240	2.38	≤ 11.00	PASS
11N20SISO	Ant2	5180	1.49	≤ 11.00	PASS
		5200	1.72	≤ 11.00	PASS
		5240	2.06	≤ 11.00	PASS
11N40SISO	Ant2	5190	-1.11	≤ 11.00	PASS
		5230	-0.46	≤ 11.00	PASS
11AC20SISO	Ant2	5180	1.58	≤ 11.00	PASS
		5200	1.7	≤ 11.00	PASS
		5240	2.08	≤ 11.00	PASS
11AC40SISO	Ant2	5190	-0.47	≤ 11.00	PASS
		5230	-0.47	≤ 11.00	PASS
11AC80SISO	Ant2	5210	-3.95	≤ 11.00	PASS

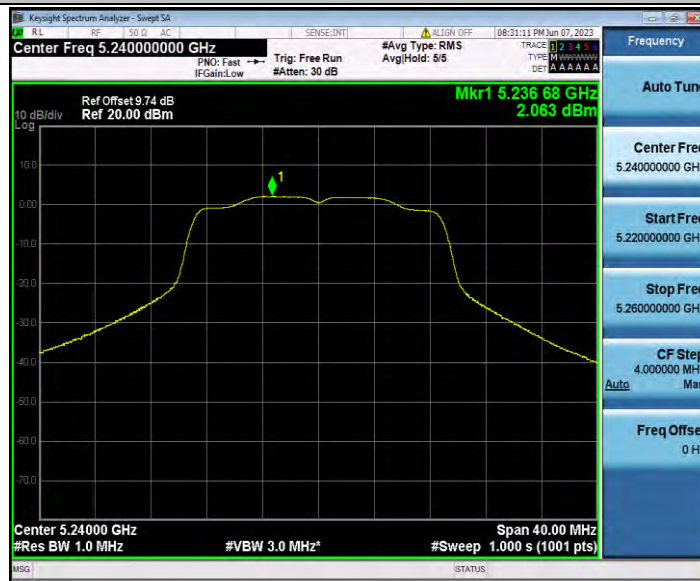
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
 2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

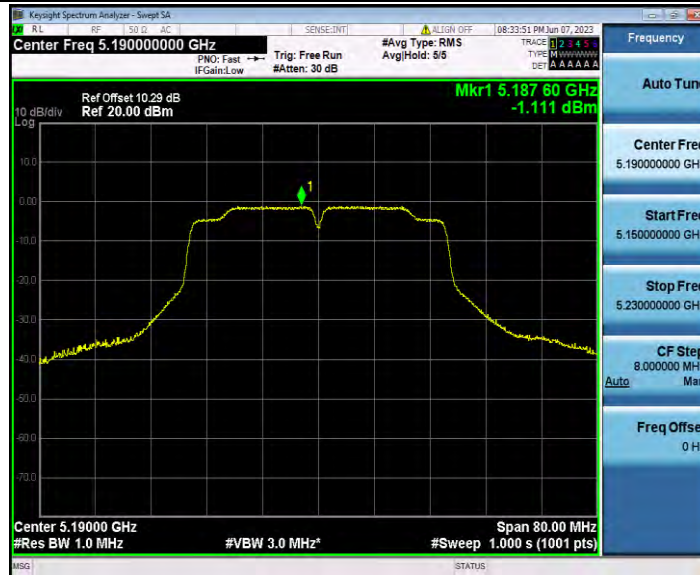




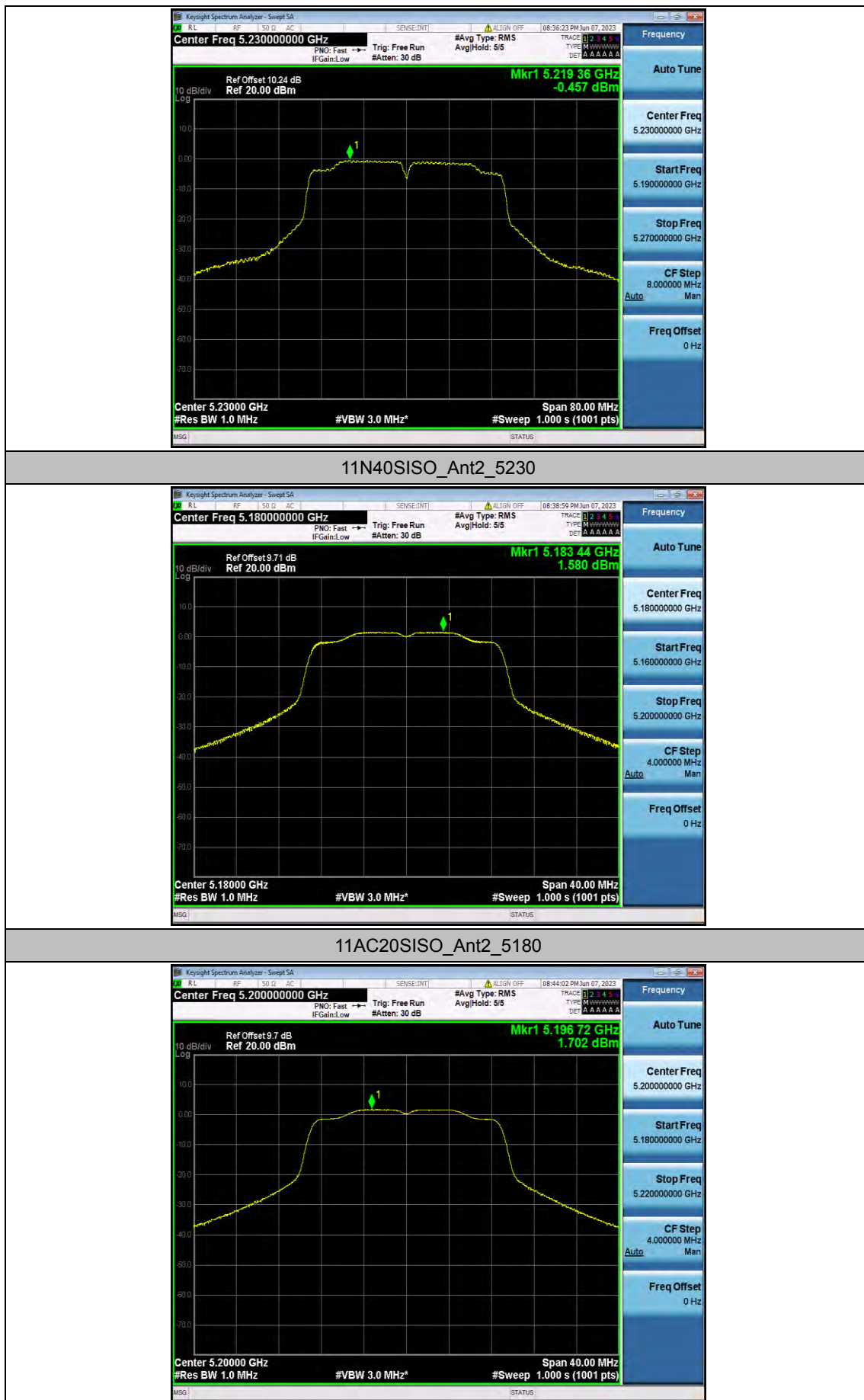
11N20SISO_Ant2_5200



11N20SISO_Ant2_5240



11N40SISO_Ant2_5190



11AC20SISO_Ant2_5200



11AC20SISO_Ant2_5240



11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



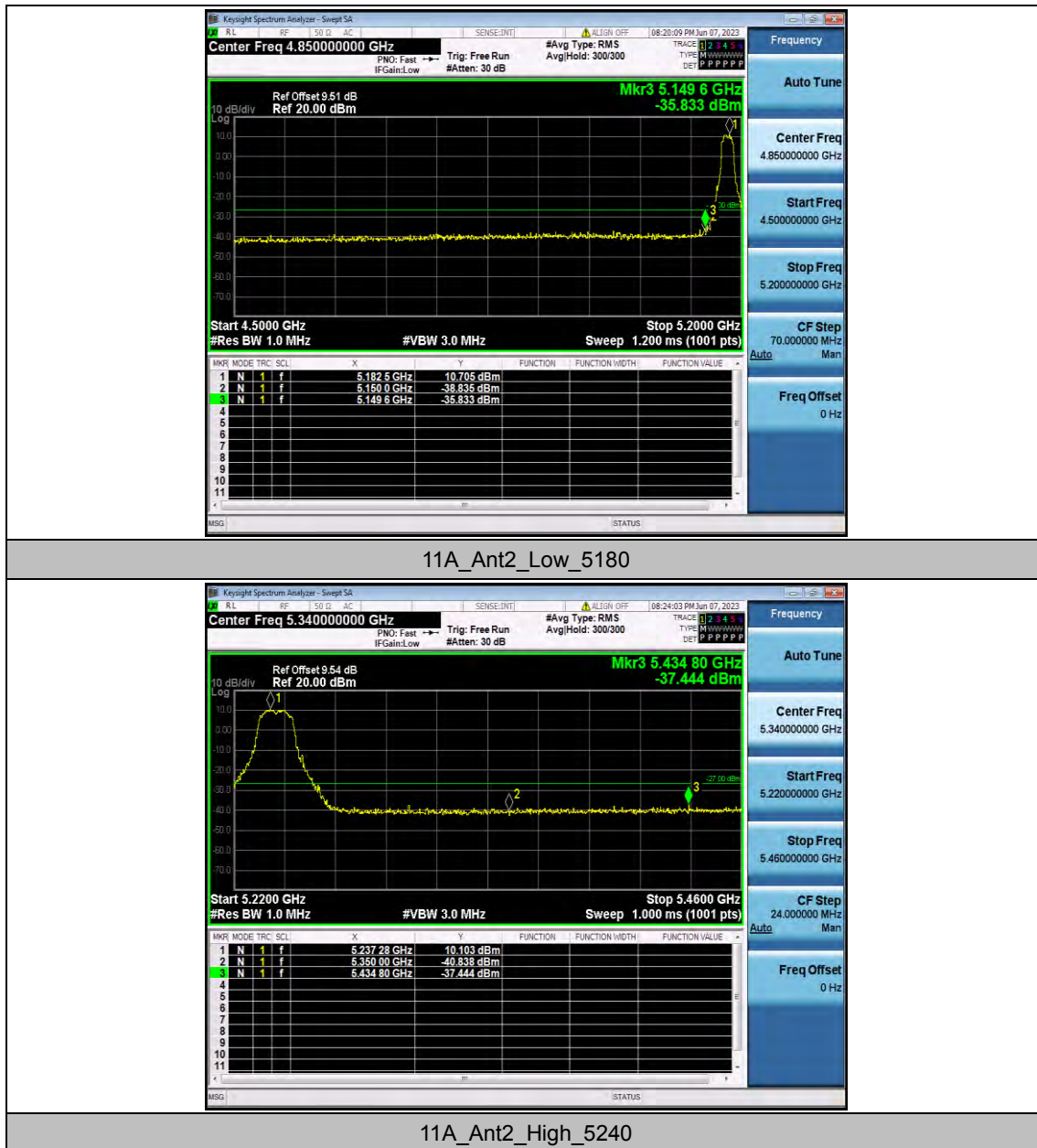
11AC80SISO_Ant2_5210

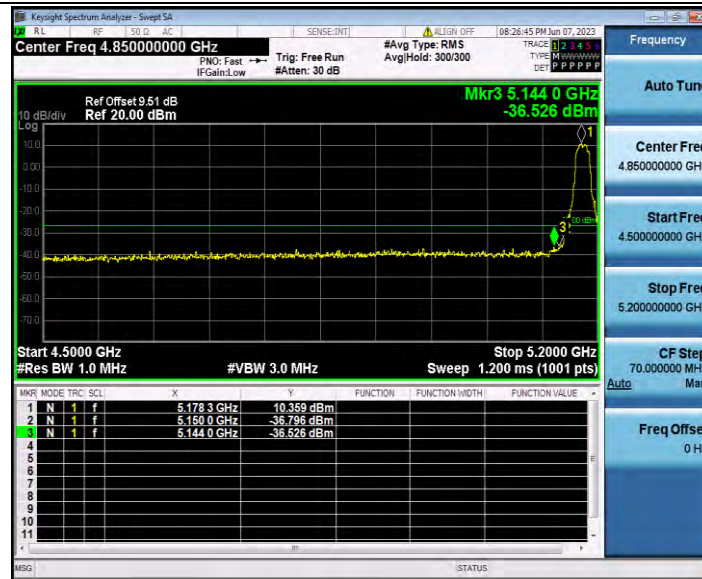
Appendix D.6: Band edge measurements

Test Result B1

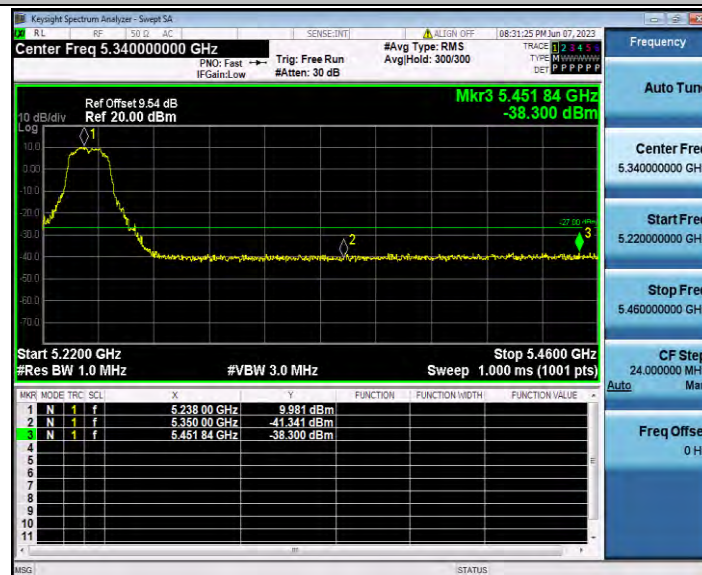
Test Mode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant2	Low	5180	-35.83	≤ -27	PASS
		High	5240	-37.44	≤ -27	PASS
11N20SISO	Ant2	Low	5180	-36.53	≤ -27	PASS
		High	5240	-38.3	≤ -27	PASS
11N40SISO	Ant2	Low	5190	-30.49	≤ -27	PASS
		High	5230	-38.14	≤ -27	PASS
11AC20SISO	Ant2	Low	5180	-35.07	≤ -27	PASS
		High	5240	-37.55	≤ -27	PASS
11AC40SISO	Ant2	Low	5190	-29.48	≤ -27	PASS
		High	5230	-38.34	≤ -27	PASS
11AC80SISO	Ant2	Low	5210	-29.05	≤ -27	PASS
		High	5210	-37.77	≤ -27	PASS

Test Graphs B1

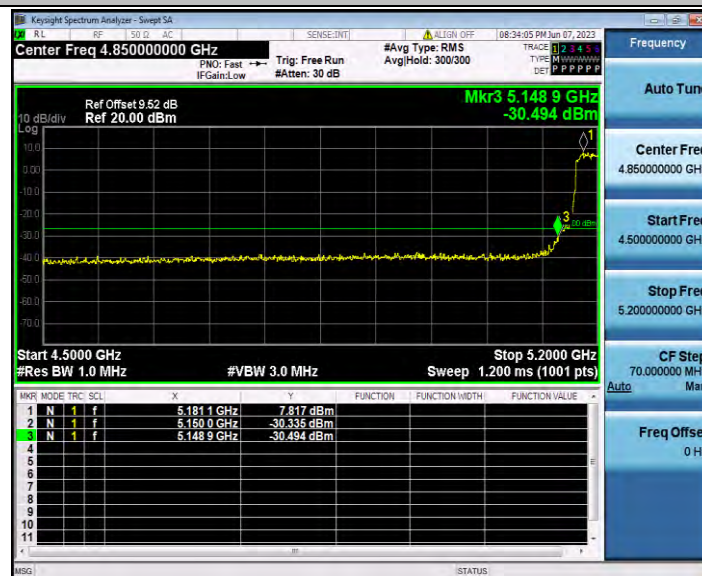




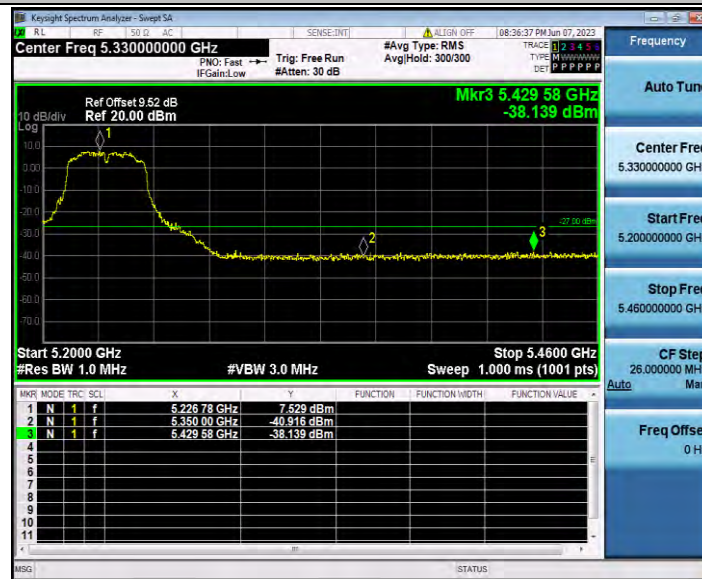
11N20SISO_Ant2_Low_5180



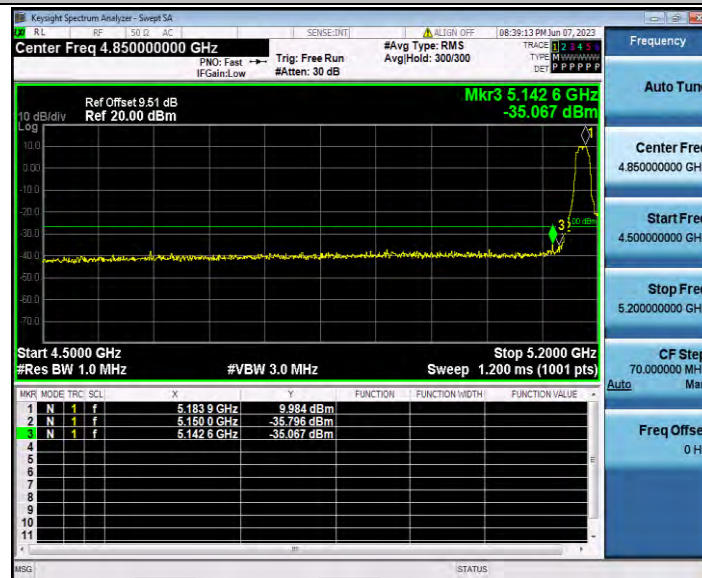
11N20SISO_Ant2_High_5240



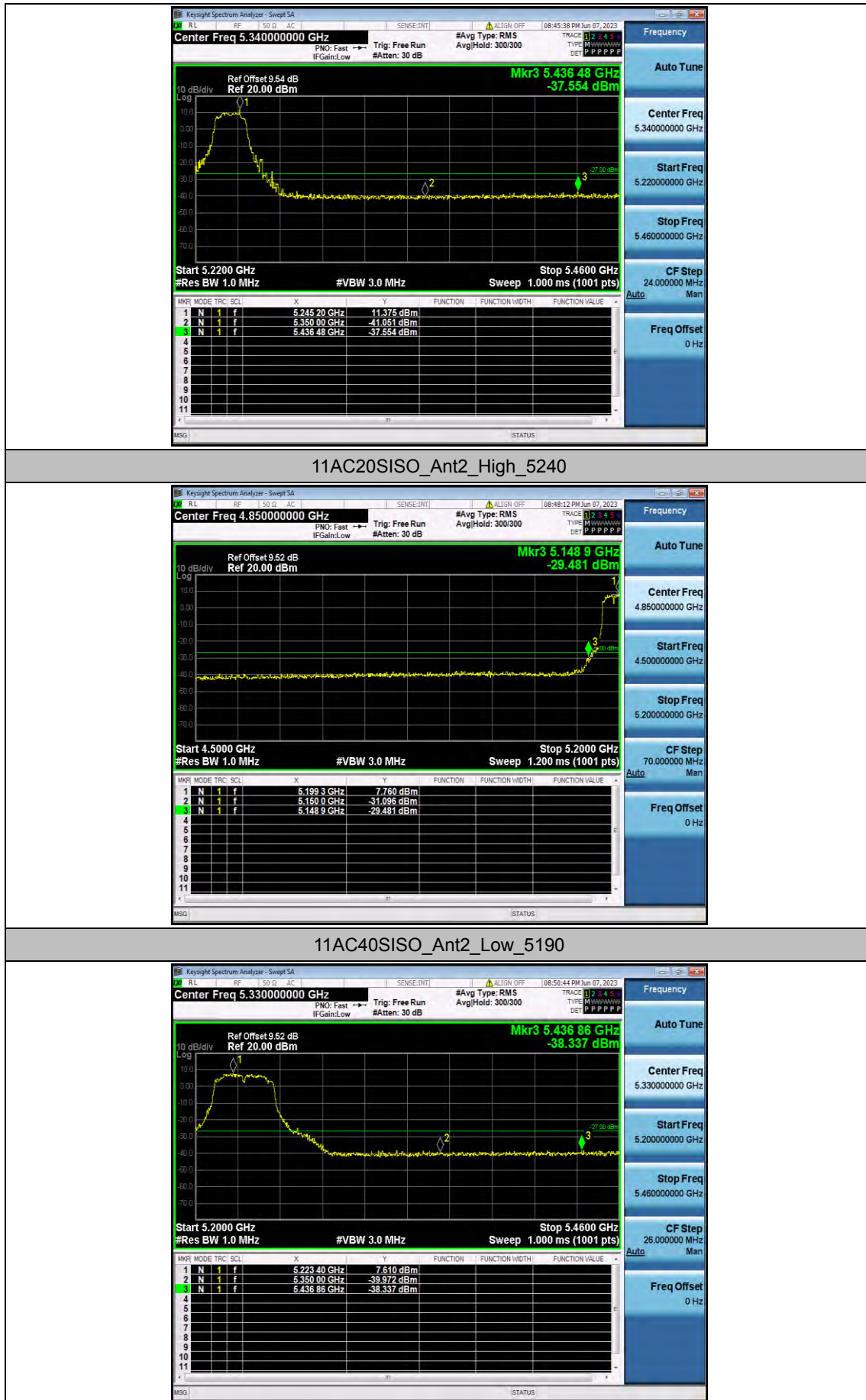
11N40SISO_Ant2_Low_5190



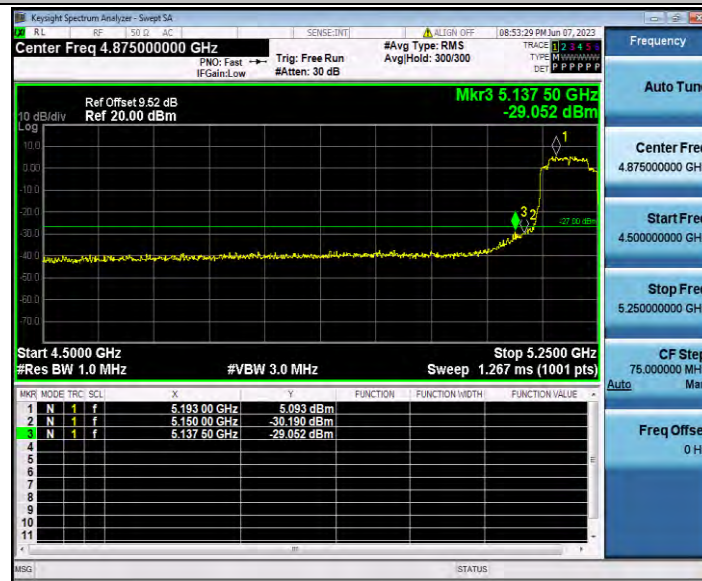
11N40SISO_Ant2_High_5230



11AC20SISO_Ant2_Low_5180



11AC40SISO_Ant2_High_5230



11AC80SISO_Ant2_Low_5210



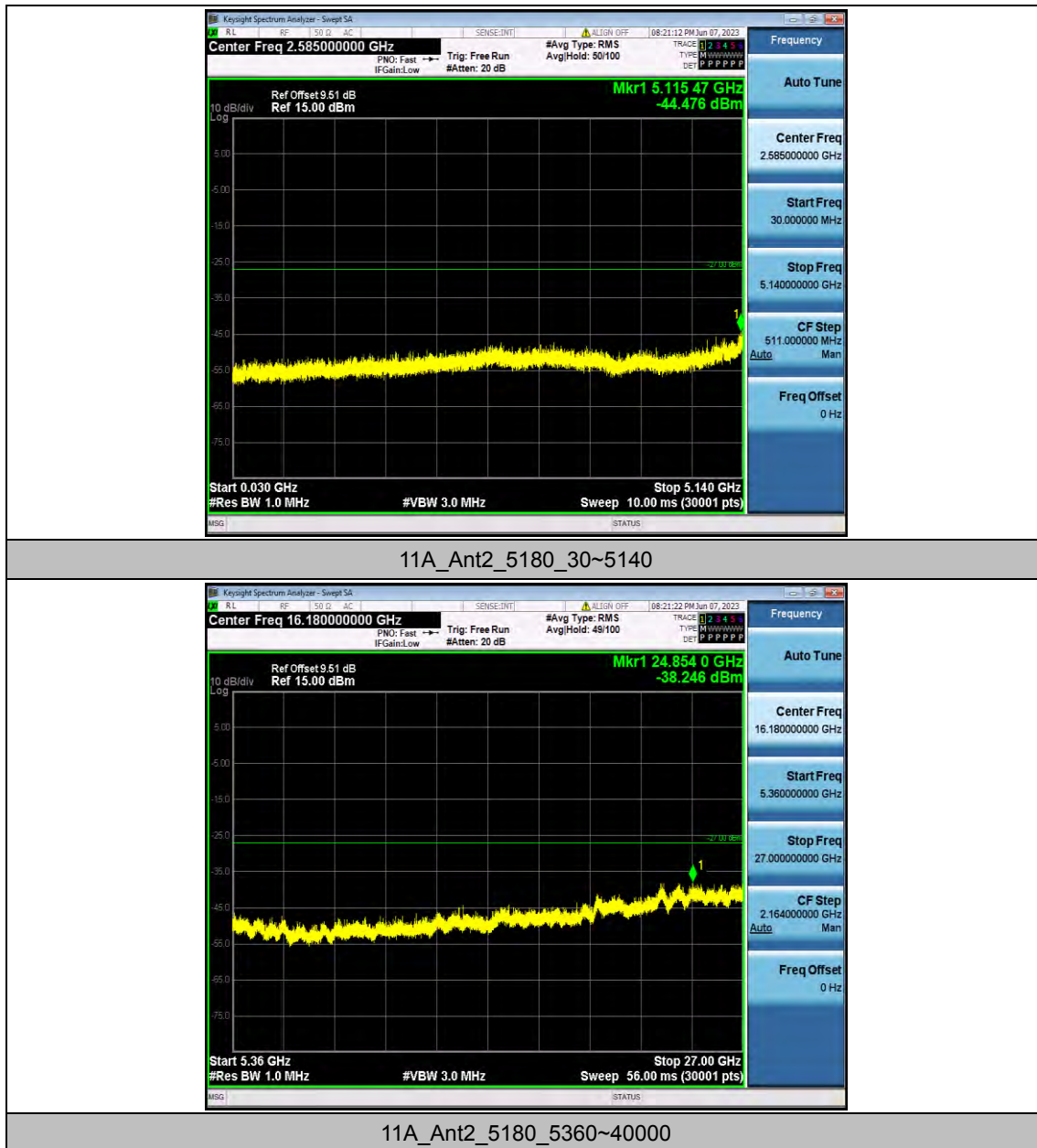
11AC80SISO_Ant2_High_5210

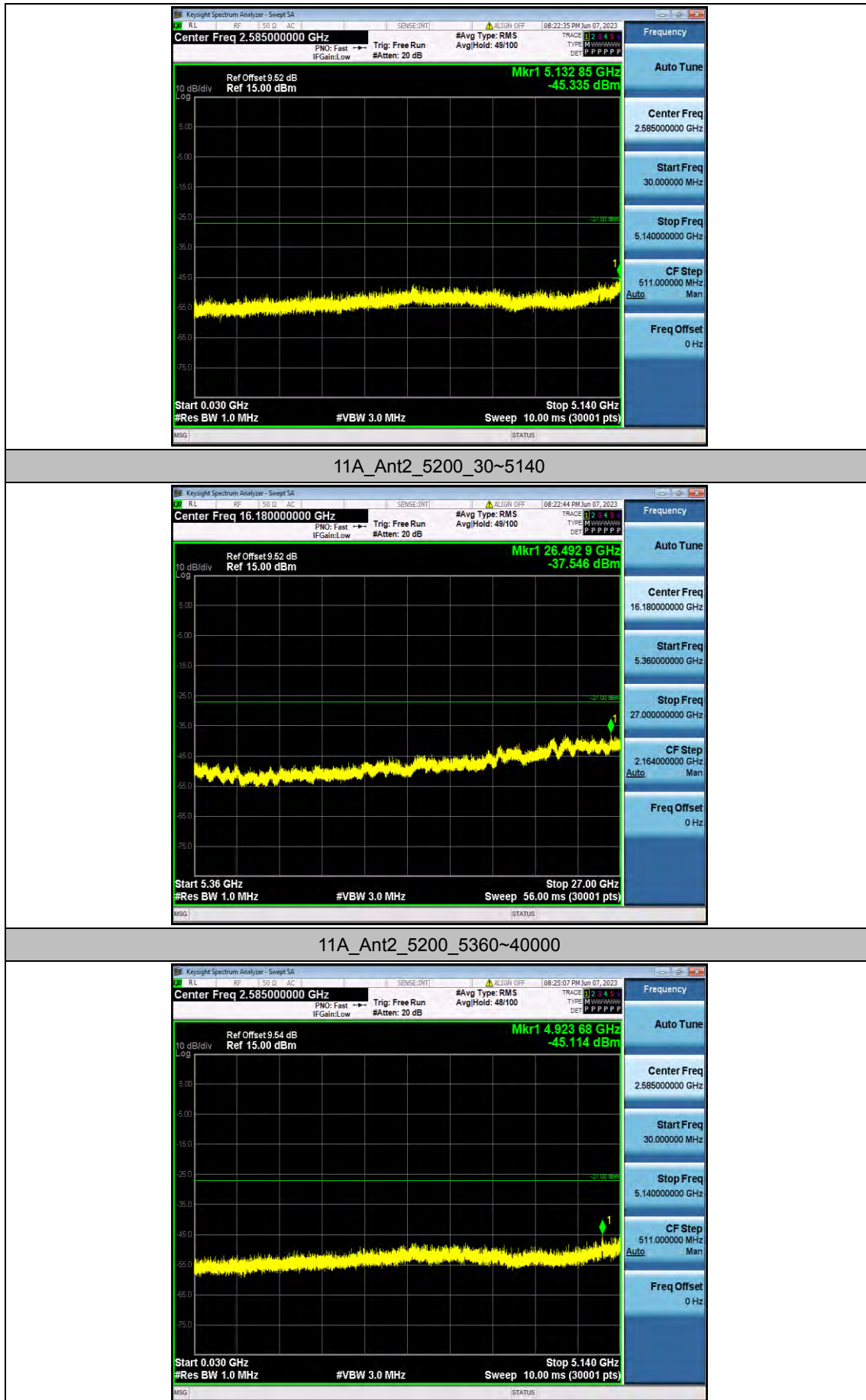
Appendix D.7: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant2	5180	30~5140	5115.47	-44.48	≤-27	PASS
			5360~40000	24854.03	-38.25	≤-27	PASS
		5200	30~5140	5132.85	-45.34	≤-27	PASS
			5360~40000	26492.9	-37.55	≤-27	PASS
		5240	30~5140	4923.68	-45.11	≤-27	PASS
			5360~40000	25175.03	-37.51	≤-27	PASS
11N20SISO	Ant2	5180	30~5140	5134.55	-37.59	≤-27	PASS
			5360~40000	24229.36	-37.92	≤-27	PASS
		5200	30~5140	5135.91	-44.3	≤-27	PASS
			5360~40000	26030.53	-38.06	≤-27	PASS
		5240	30~5140	4922.31	-44.61	≤-27	PASS
			5360~40000	26954.56	-37.93	≤-27	PASS
11N40SISO	Ant2	5190	30~5140	5133.87	-38.69	≤-27	PASS
			5360~40000	26101.22	-37.81	≤-27	PASS
		5230	30~5140	5138.3	-44.19	≤-27	PASS
			5360~40000	24828.07	-37.67	≤-27	PASS
11AC20SISO	Ant2	5180	30~5140	5138.47	-42.61	≤-27	PASS
			5360~40000	24273.36	-37.73	≤-27	PASS
		5200	30~5140	5138.47	-44.41	≤-27	PASS
			5360~40000	23552.75	-37.98	≤-27	PASS
		5240	30~5140	4924.19	-45.3	≤-27	PASS
			5360~40000	24287.79	-37.84	≤-27	PASS
11AC40SISO	Ant2	5190	30~5140	5137.96	-40.62	≤-27	PASS
			5360~40000	24973.05	-38.46	≤-27	PASS
		5230	30~5140	5137.1	-44.51	≤-27	PASS
			5360~40000	24243.06	-37.43	≤-27	PASS
11AC80SISO	Ant2	5210	30~5140	5133.36	-32.81	≤-27	PASS
			5360~40000	24861.97	-37.49	≤-27	PASS

Test Graphs





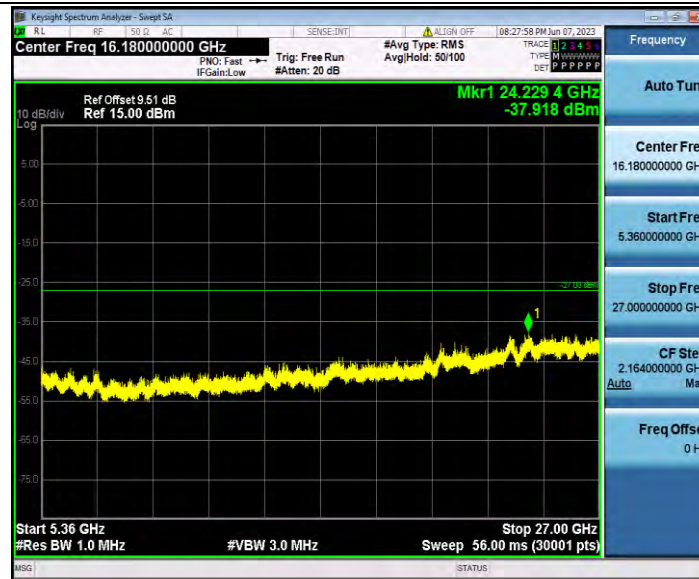
11A_Ant2_5240_30~5140



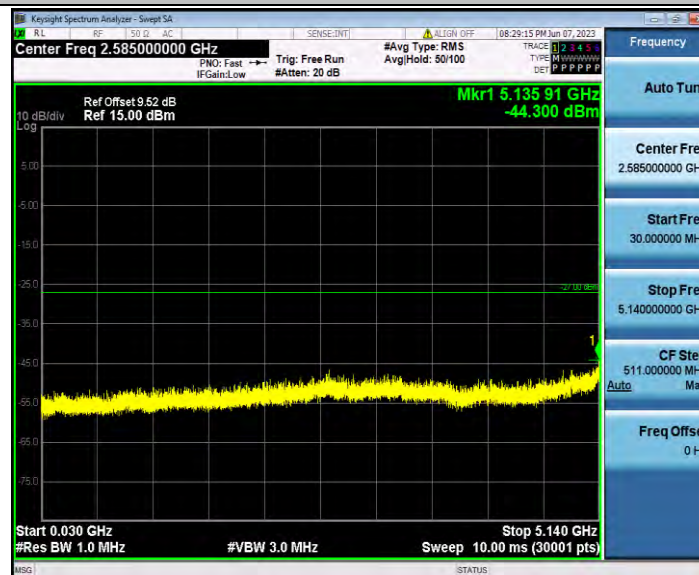
11A_Ant2_5240_5360~40000



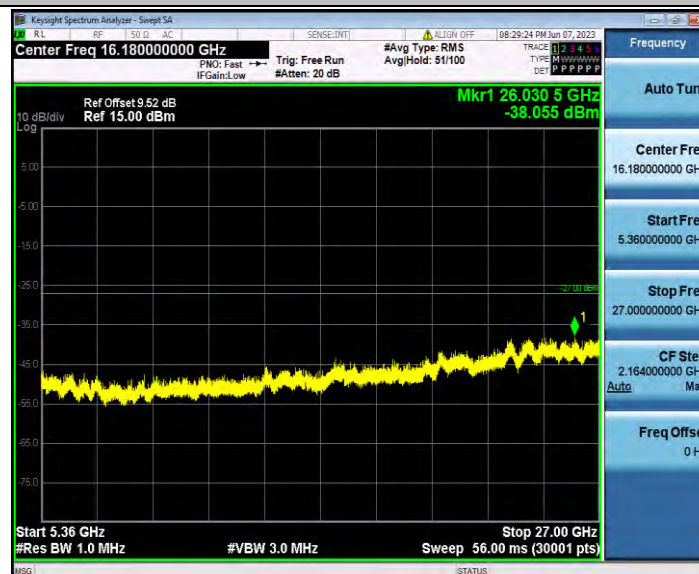
11N20SISO_Ant2_5180_30~5140



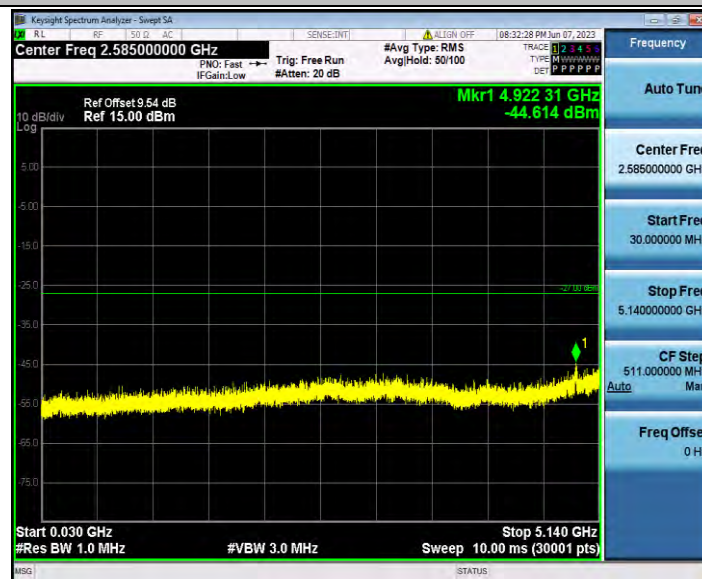
11N20SISO_Ant2_5180_5360~40000



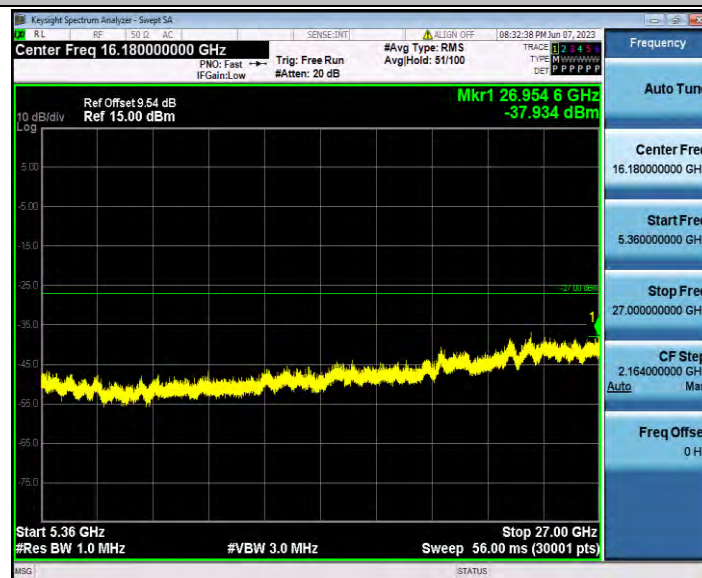
11N20SISO_Ant2_5200_30~5140



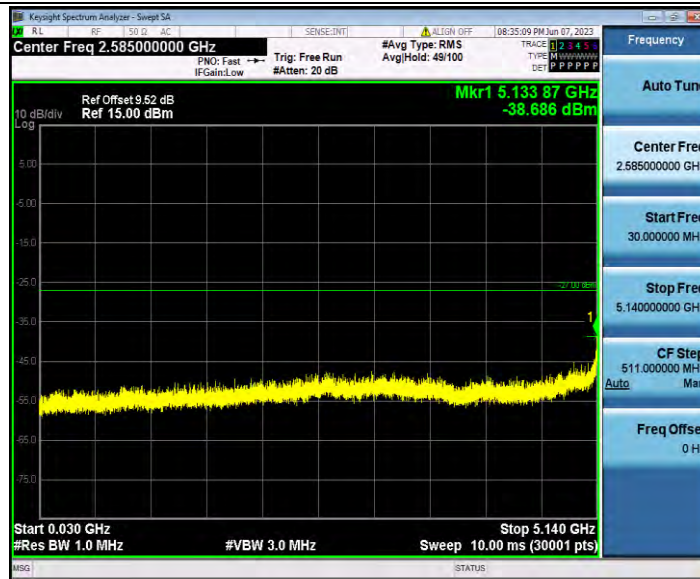
11N20SISO_Ant2_5200_5360~40000



11N20SISO_Ant2_5240_30~5140



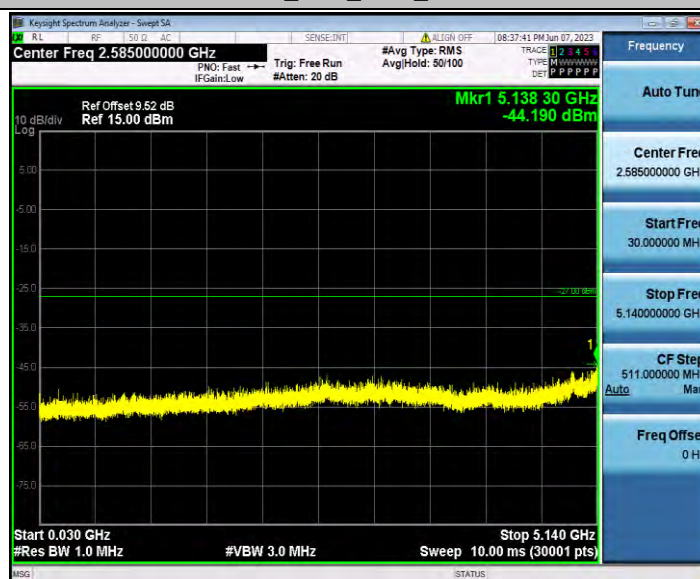
11N20SISO_Ant2_5240_5360~40000



11N40SISO_Ant2_5190_30~5140



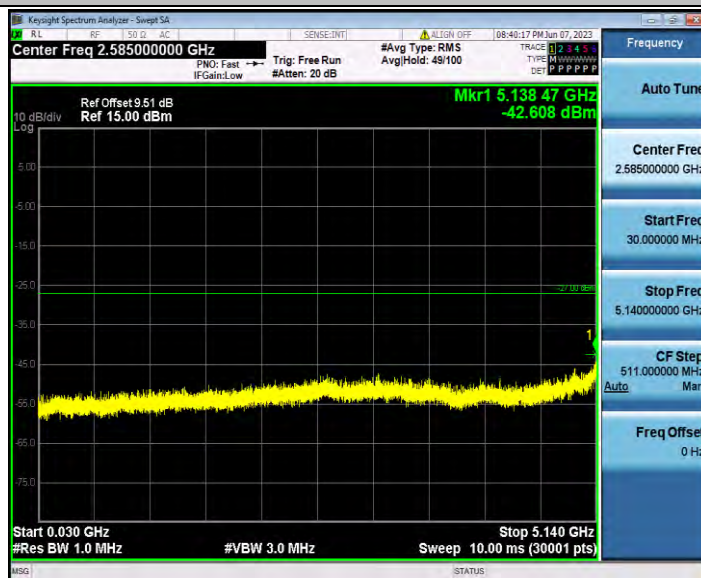
11N40SISO_Ant2_5190_5360~40000



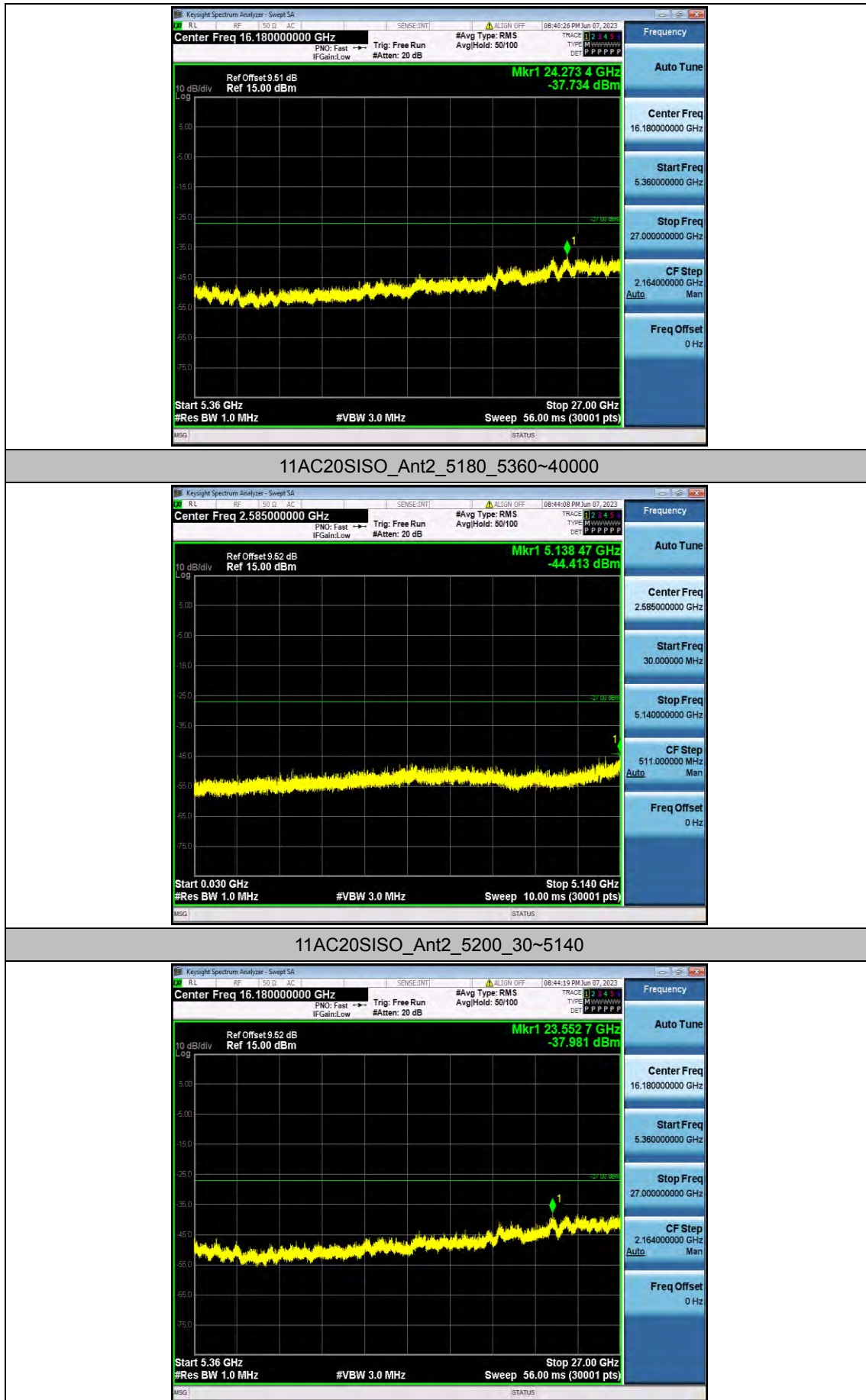
11N40SISO_Ant2_5230_30~5140



11N40SISO_Ant2_5230_5360~40000



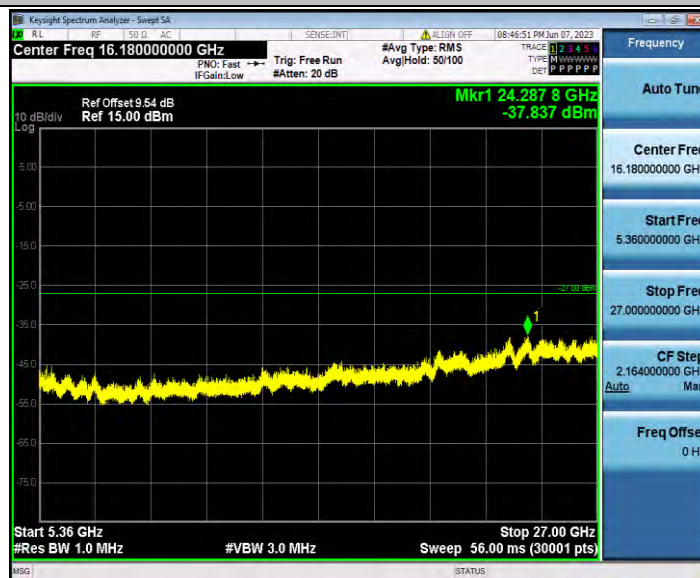
11AC20SISO_Ant2_5180_30~5140



11AC20SISO_Ant2_5200_5360~40000



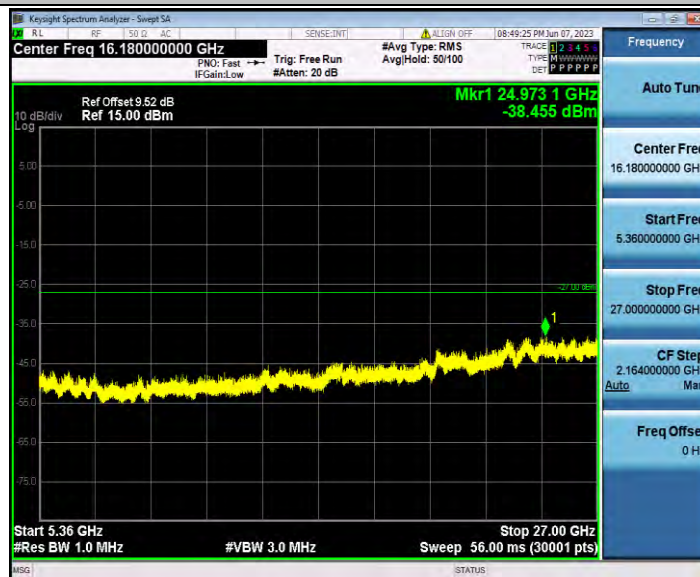
11AC20SISO_Ant2_5240_30~5140



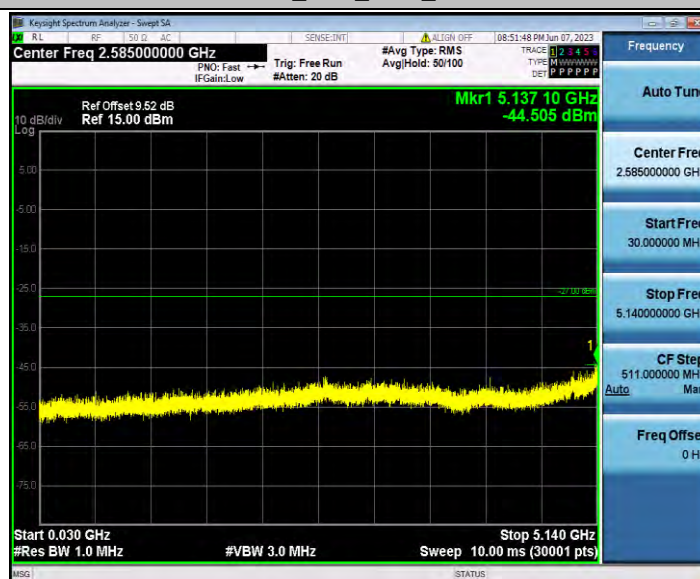
11AC20SISO_Ant2_5240_5360~40000



11AC40SISO_Ant2_5190_30~5140



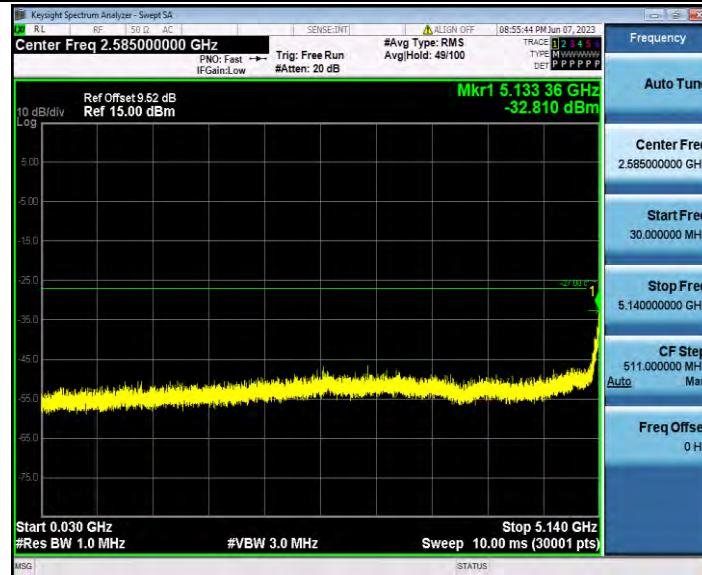
11AC40SISO_Ant2_5190_5360~40000



11AC40SISO_Ant2_5230_30~5140



11AC40SISO_Ant2_5230_5360~40000



11AC80SISO_Ant2_5210_30~5140

