

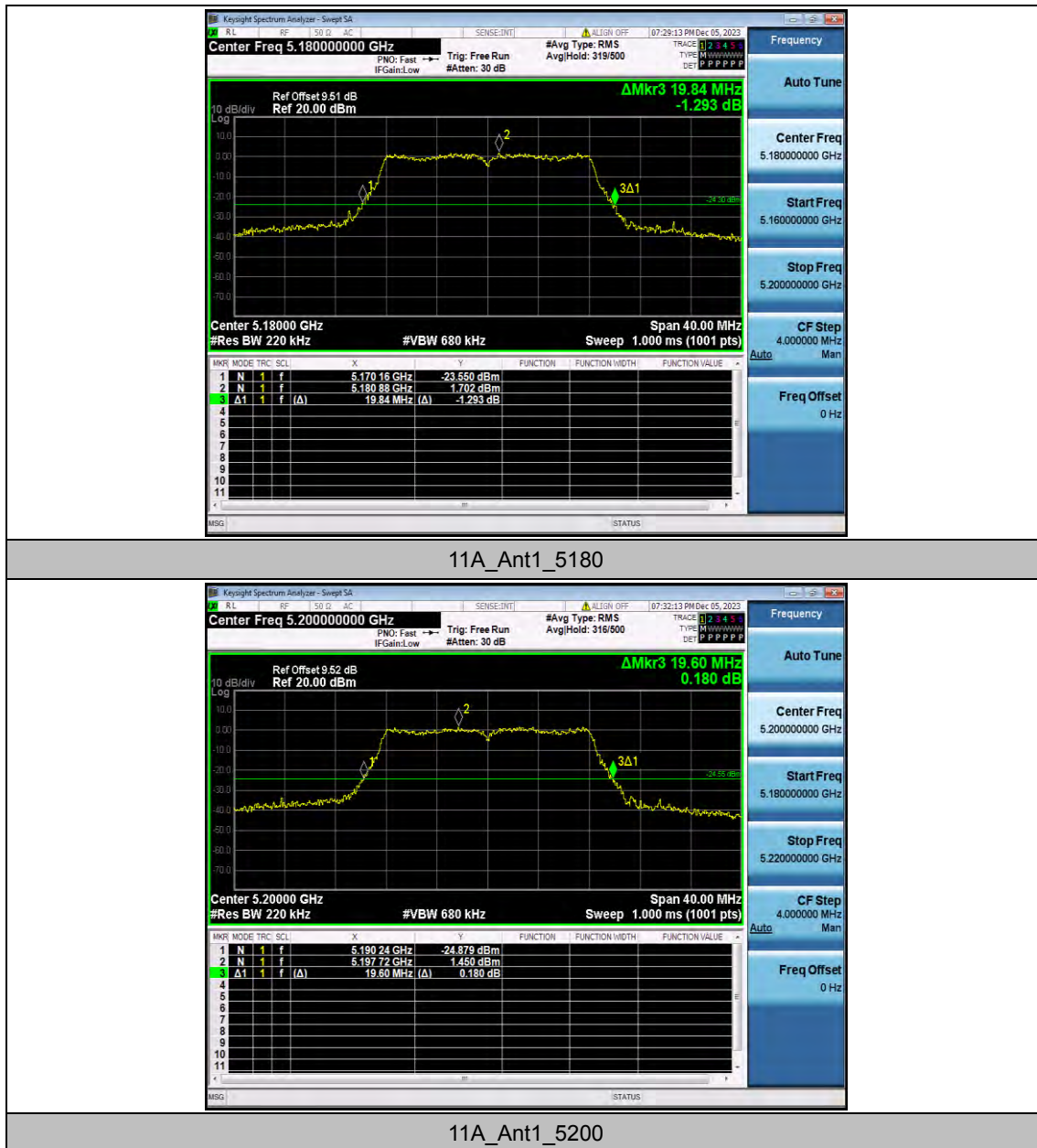
Case No. : <u>GTS20231012003-1-5</u>	
Ambient Condition: <u>23</u> °C, <u>49</u> %RH, Atmos100.1Kpa,	
Test Date: <u>2023.12.5</u>	Test Engineer: <u>Evan ouyang</u>

Appendix D.1: Emission Bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	19.840	5170.160	5190.000	---	---
		5200	19.600	5190.240	5209.840	---	---
		5240	19.840	5230.120	5249.960	---	---
11N20SISO	Ant1	5180	19.960	5170.000	5189.960	---	---
		5200	20.080	5189.880	5209.960	---	---
		5240	19.840	5230.120	5249.960	---	---
11N40SISO	Ant1	5190	40.240	5169.920	5210.160	---	---
		5230	40.000	5210.000	5250.000	---	---
11AC20SISO	Ant1	5180	19.880	5170.080	5189.960	---	---
		5200	19.880	5189.960	5209.840	---	---
		5240	19.920	5230.040	5249.960	---	---
11AC40SISO	Ant1	5190	40.320	5169.840	5210.160	---	---
		5230	40.880	5209.360	5250.240	---	---
11AC80SISO	Ant1	5210	81.120	5169.680	5250.800	---	---

Test Graphs





11A_Ant1_5240



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



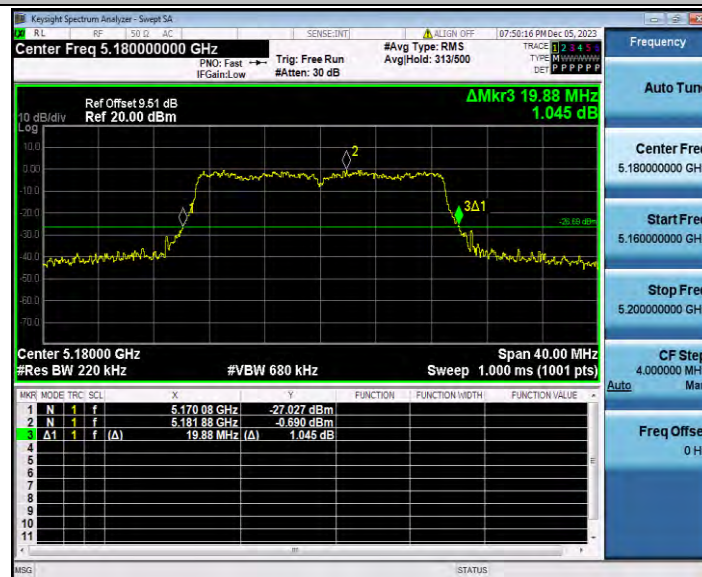
11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



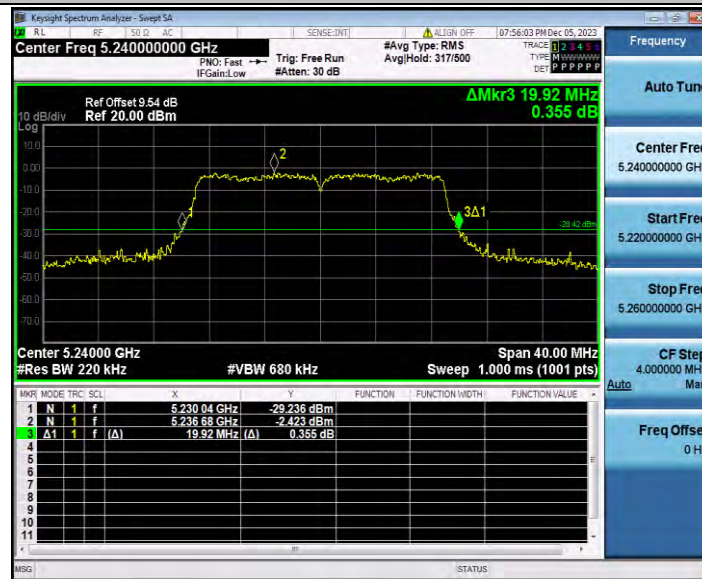
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



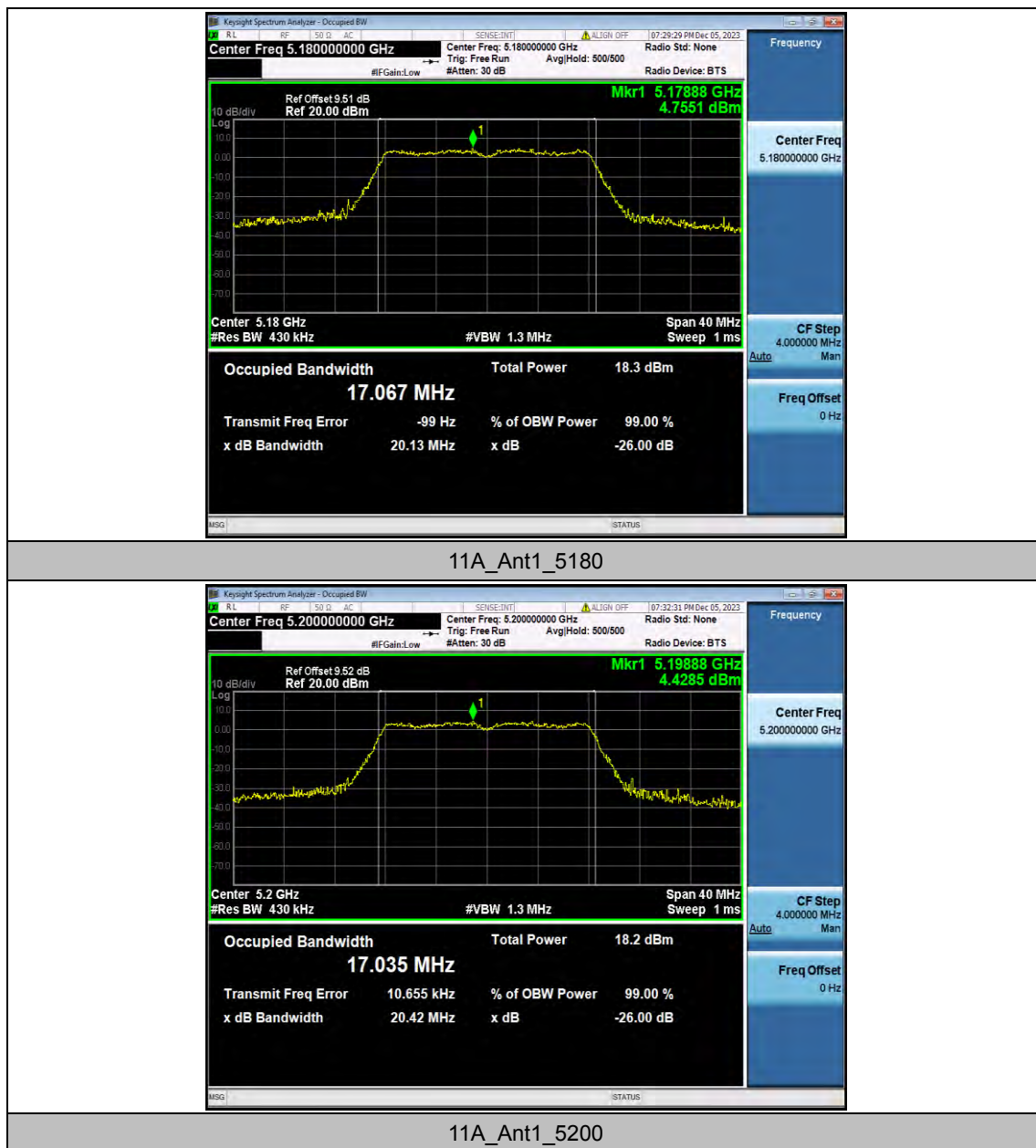
11AC80SISO_Ant1_5210

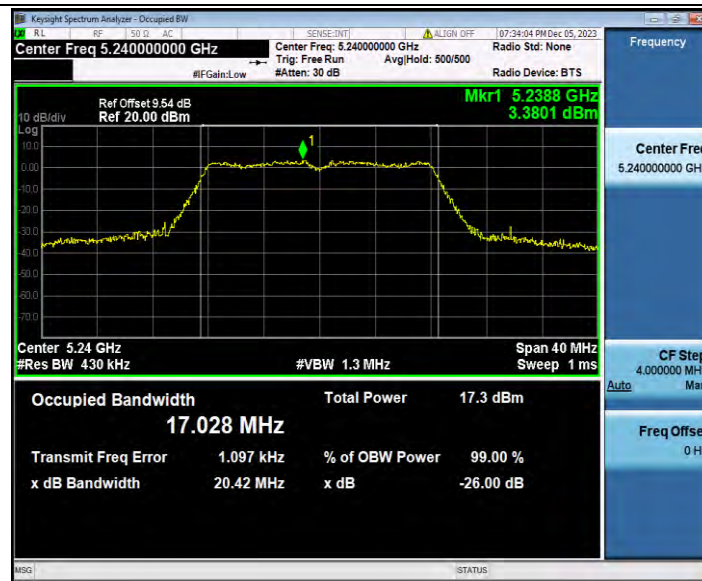
Appendix D.2: Occupied channel bandwidth

Test Result

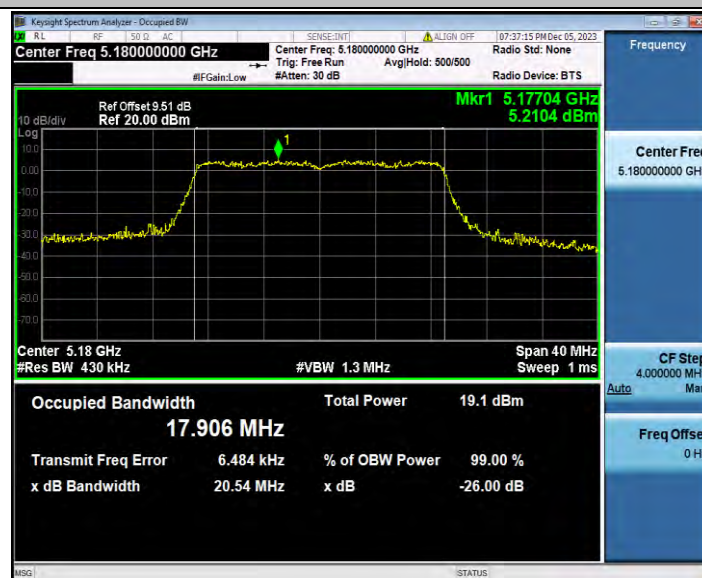
Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.067	5171.466	5188.533	---	---
		5200	17.035	5191.493	5208.528	---	---
		5240	17.028	5231.487	5248.515	---	---
11N20SISO	Ant1	5180	17.906	5171.053	5188.959	---	---
		5200	17.839	5191.065	5208.904	---	---
		5240	17.898	5231.041	5248.939	---	---
11N40SISO	Ant1	5190	36.483	5171.754	5208.237	---	---
		5230	36.446	5211.775	5248.221	---	---
11AC20SISO	Ant1	5180	17.887	5171.069	5188.956	---	---
		5200	17.880	5191.080	5208.960	---	---
		5240	17.851	5231.092	5248.943	---	---
11AC40SISO	Ant1	5190	36.517	5171.756	5208.273	---	---
		5230	36.546	5211.692	5248.238	---	---
11AC80SISO	Ant1	5210	76.443	5171.790	5248.233	---	---

Test Graphs

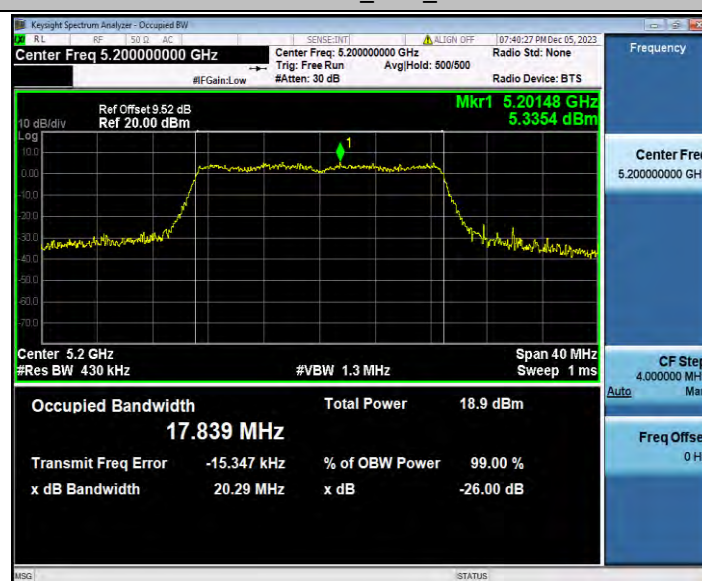




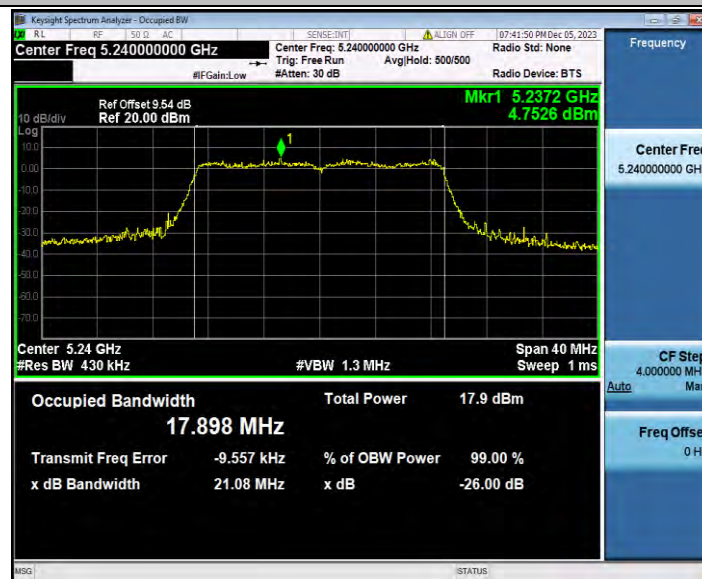
11A_Ant1_5240



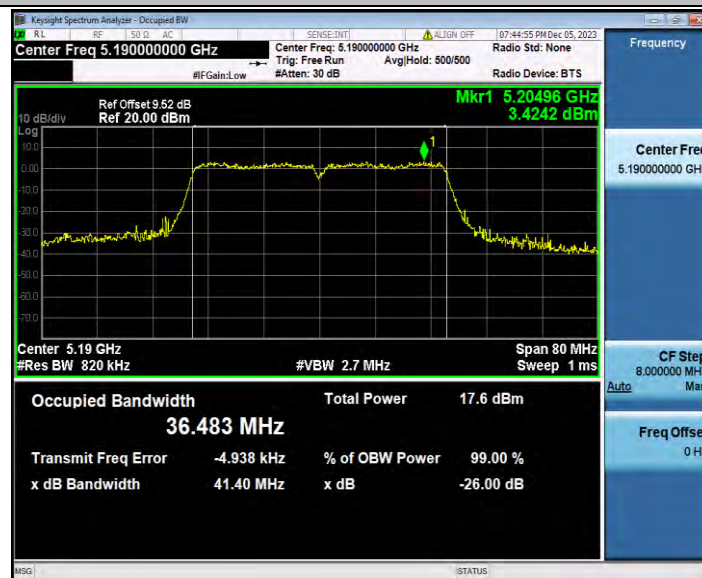
11N20SISO_Ant1_5180



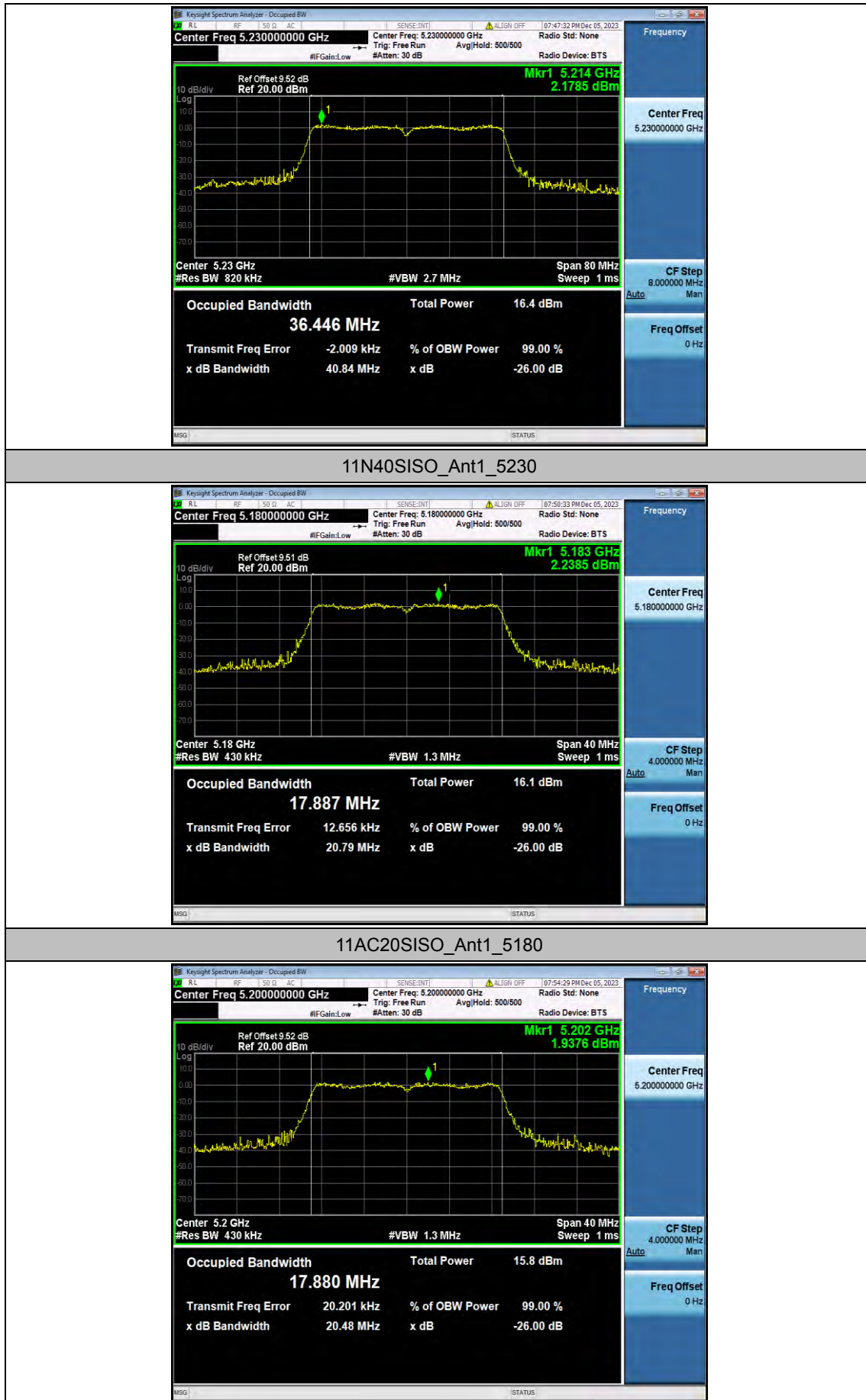
11N20SISO_Ant1_5200



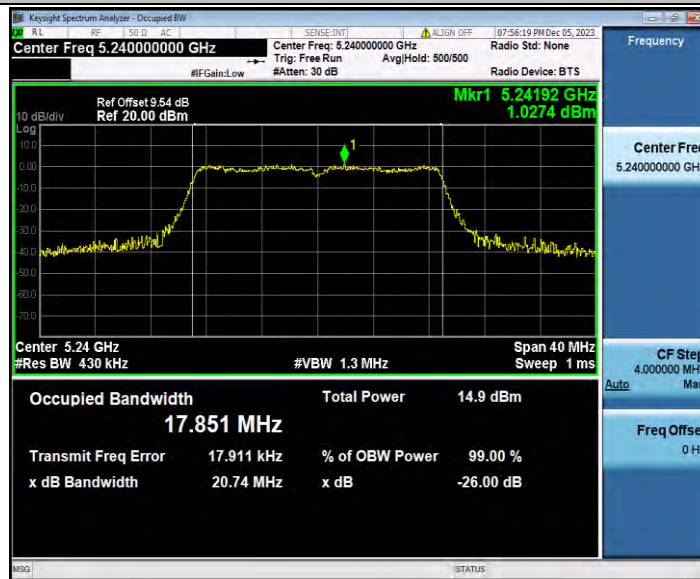
11N20SISO_Ant1_5240



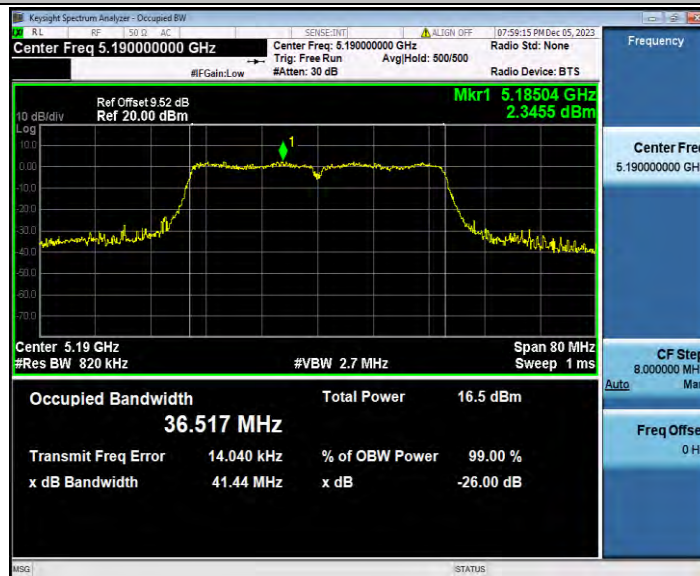
11N40SISO_Ant1_5190



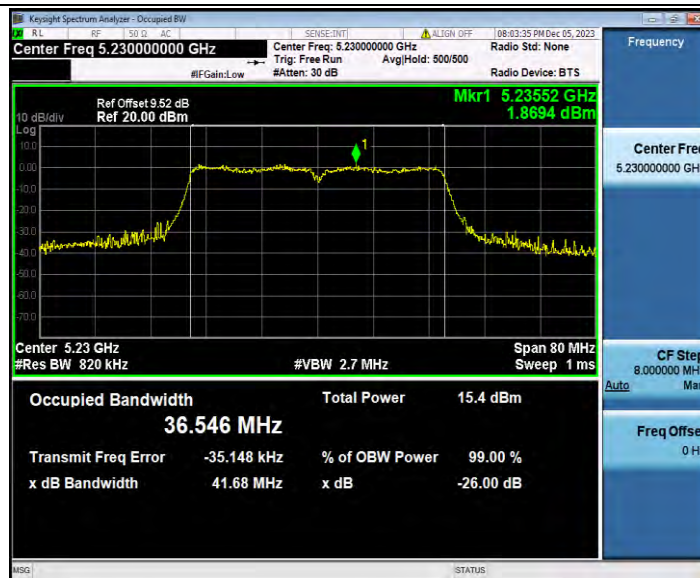
11AC20SISO_Ant1_5200



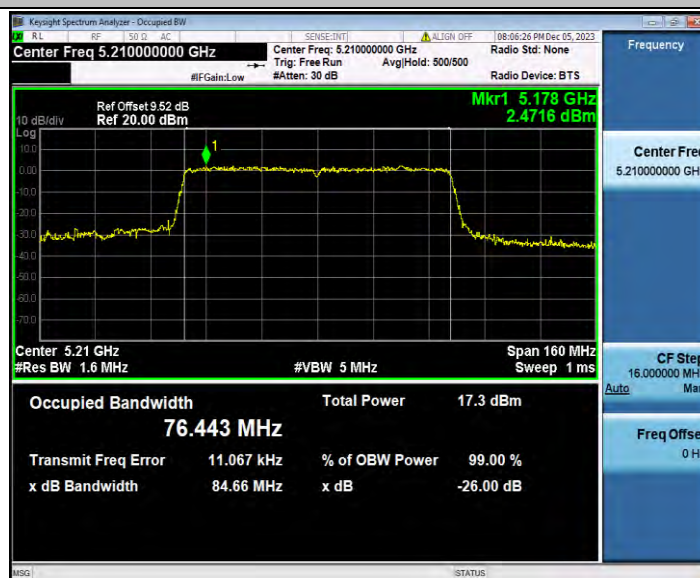
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



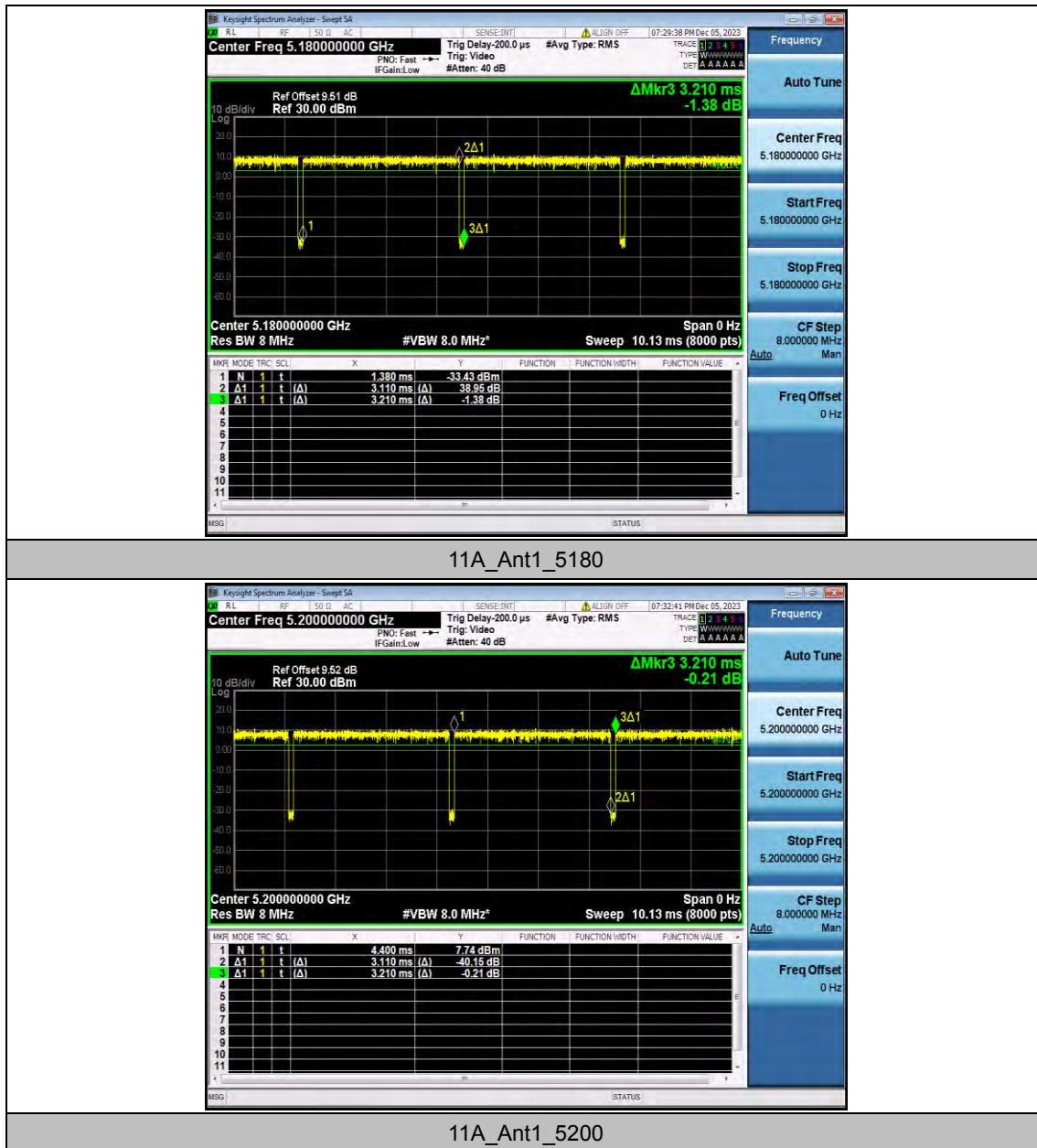
11AC80SISO_Ant1_5210

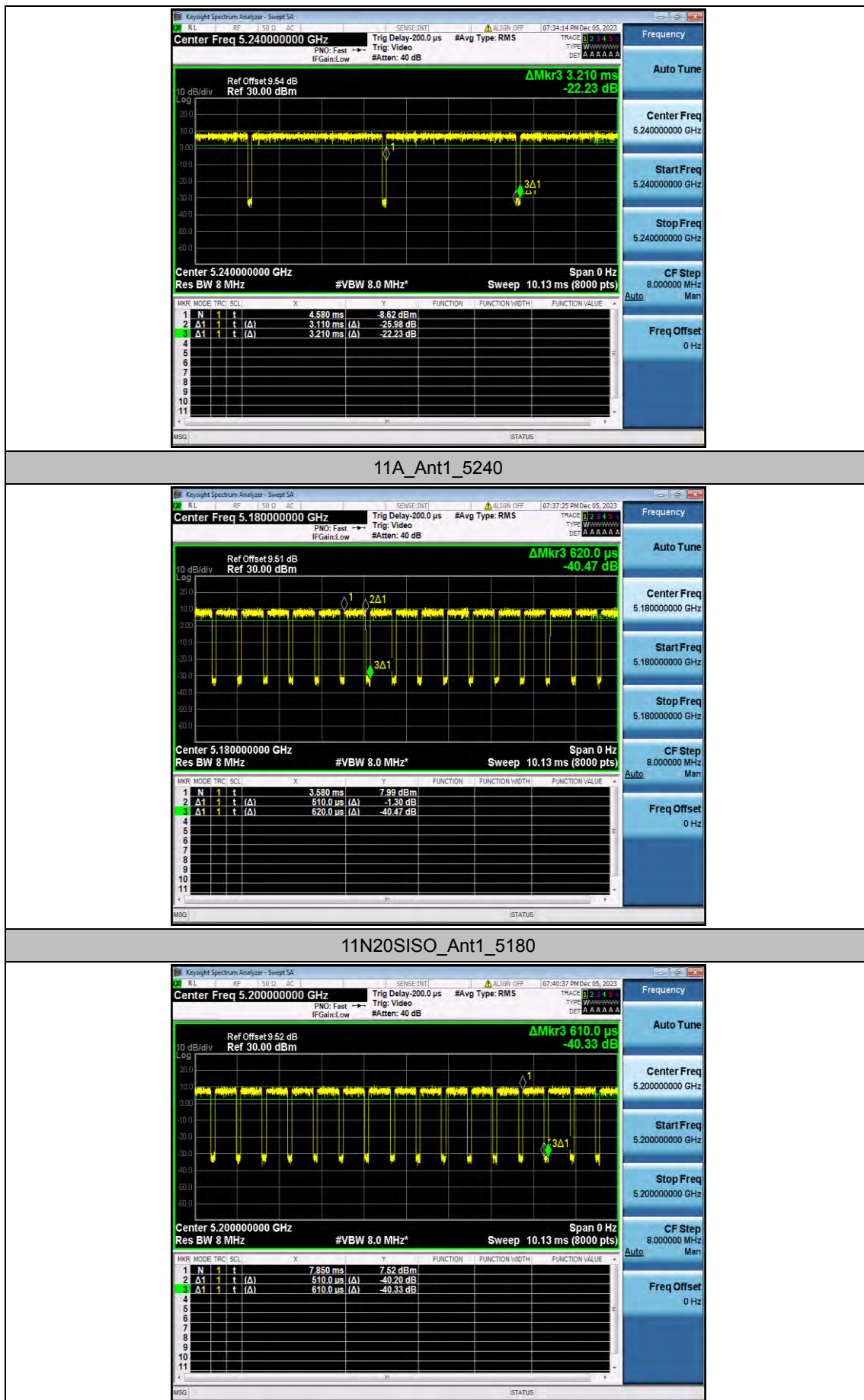
Appendix D.3: Duty Cycle

Test Result

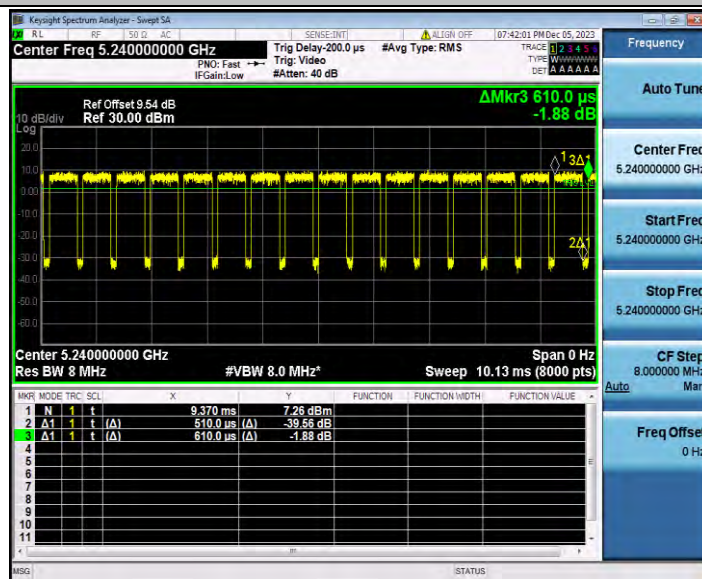
Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	3.11	3.21	96.88
		5200	3.11	3.21	96.88
		5240	3.11	3.21	96.88
11N20SISO	Ant1	5180	0.51	0.62	82.26
		5200	0.51	0.61	83.61
		5240	0.51	0.61	83.61
11N40SISO	Ant1	5190	0.26	0.37	70.27
		5230	0.26	0.37	70.27
11AC20SISO	Ant1	5180	0.43	0.54	79.63
		5200	0.43	0.54	79.63
		5240	0.43	0.54	79.63
11AC40SISO	Ant1	5190	0.21	0.31	67.74
		5230	0.21	0.31	67.74
11AC80SISO	Ant1	5210	0.12	0.23	52.17

Test Graphs

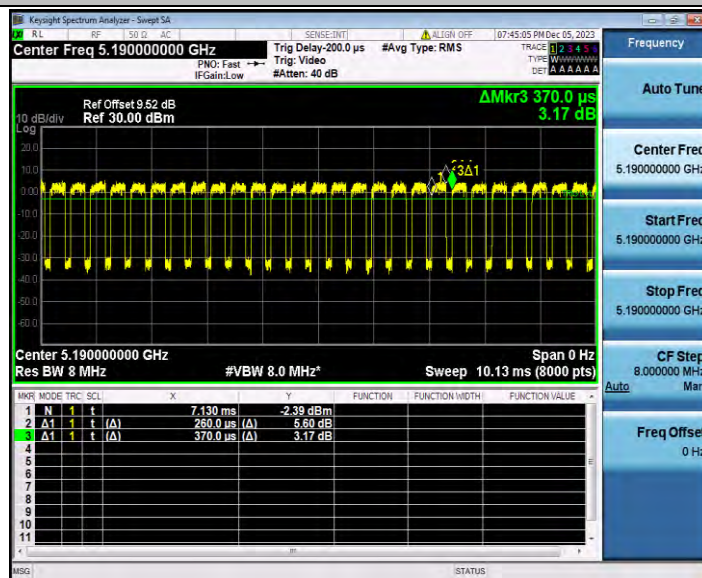




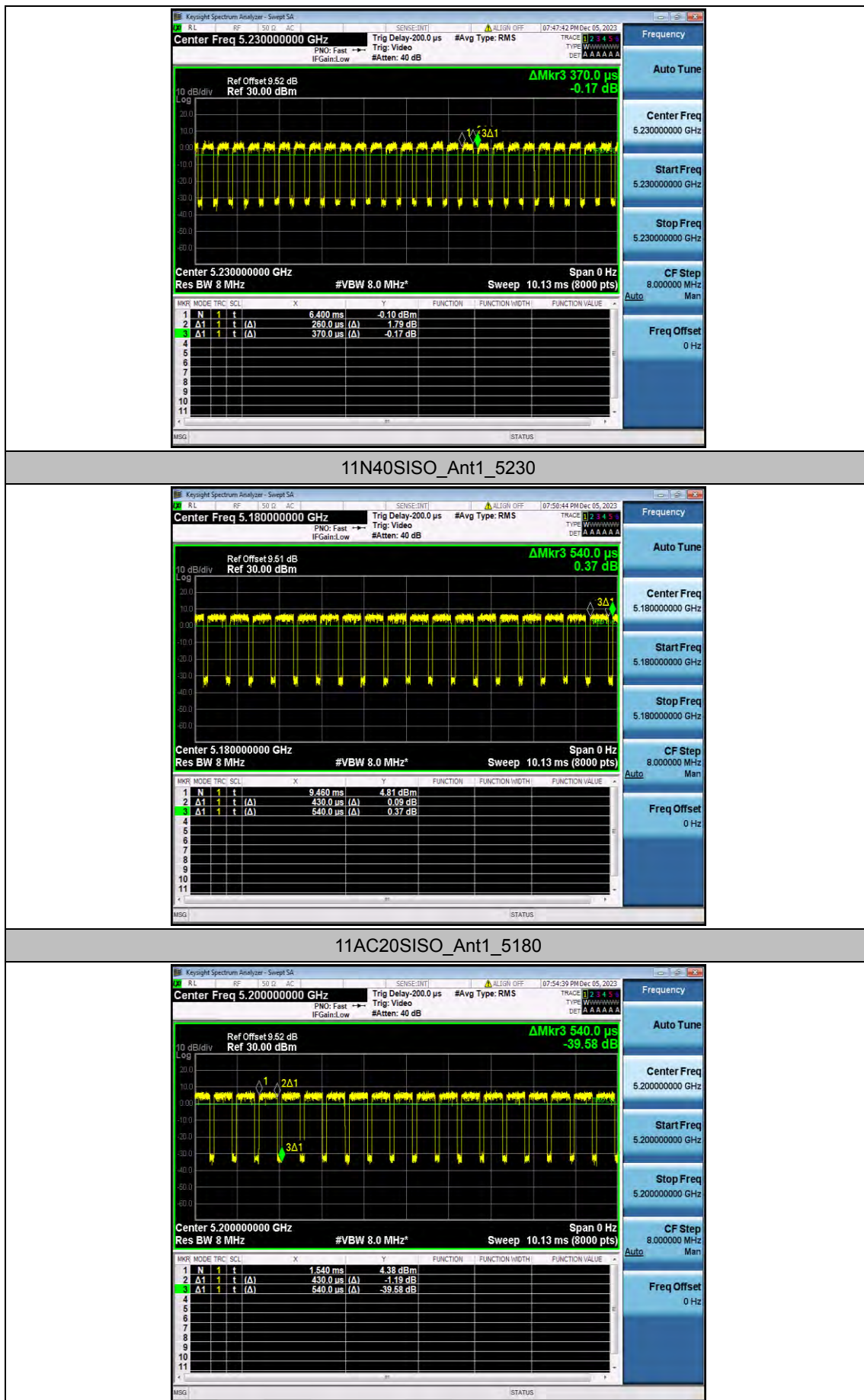
11N20SISO_Ant1_5200



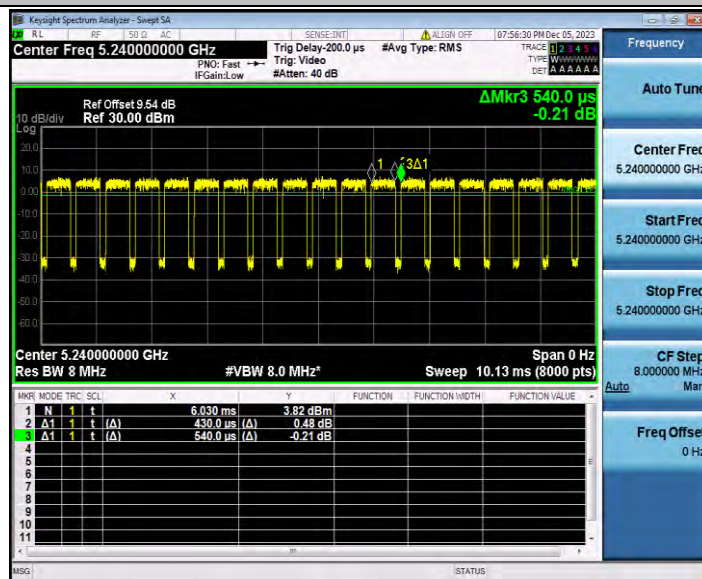
11N20SISO_Ant1_5240



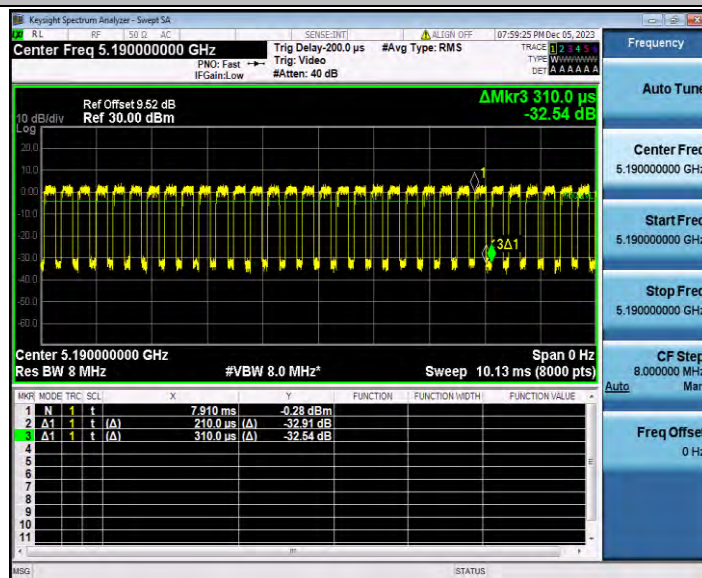
11N40SISO_Ant1_5190



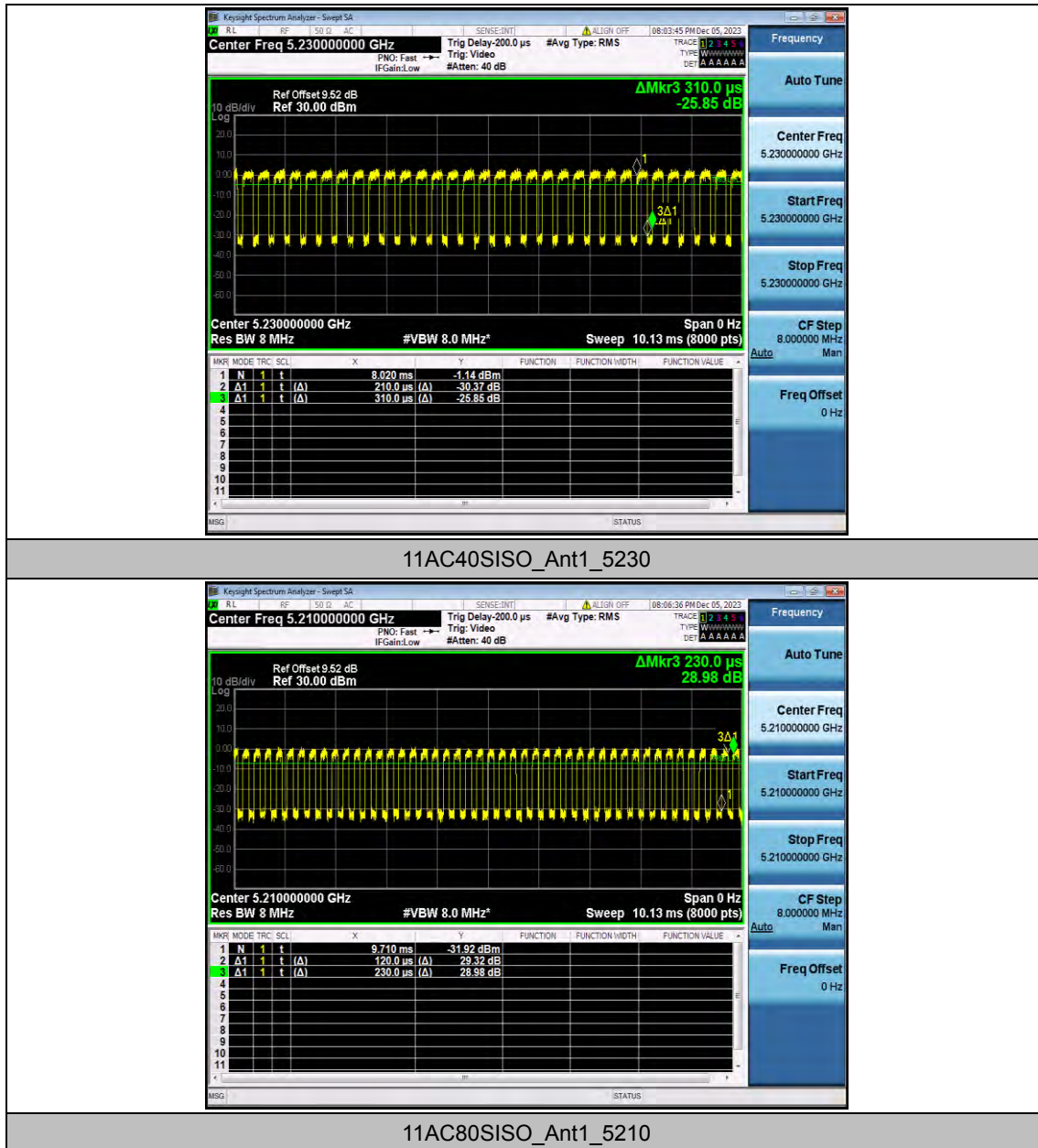
11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



Appendix D.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency[MHz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	11.56	96.88	0.14	11.70	≤23.98	PASS
		5200	11.28	96.88	0.14	11.42	≤23.98	PASS
		5240	10.31	96.88	0.14	10.45	≤23.98	PASS
11N20SISO	Ant1	5180	11.04	82.26	0.85	11.89	≤23.98	PASS
		5200	10.73	83.61	0.78	11.51	≤23.98	PASS
		5240	9.81	83.61	0.78	10.59	≤23.98	PASS
11N40SISO	Ant1	5190	8.19	70.27	1.53	9.72	≤23.98	PASS
		5230	8.07	70.27	1.53	9.60	≤23.98	PASS
11AC20SISO	Ant1	5180	8.88	79.63	0.99	9.87	≤23.98	PASS
		5200	8.58	79.63	0.99	9.57	≤23.98	PASS
		5240	8.64	79.63	0.99	9.63	≤23.98	PASS
11AC40SISO	Ant1	5190	8.97	67.74	1.69	9.66	≤23.98	PASS
		5230	7.86	67.74	1.69	9.55	≤23.98	PASS
11AC80SISO	Ant1	5210	6.18	52.17	2.83	9.01	≤23.98	PASS

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

Appendix D.5: Maximum power spectral density

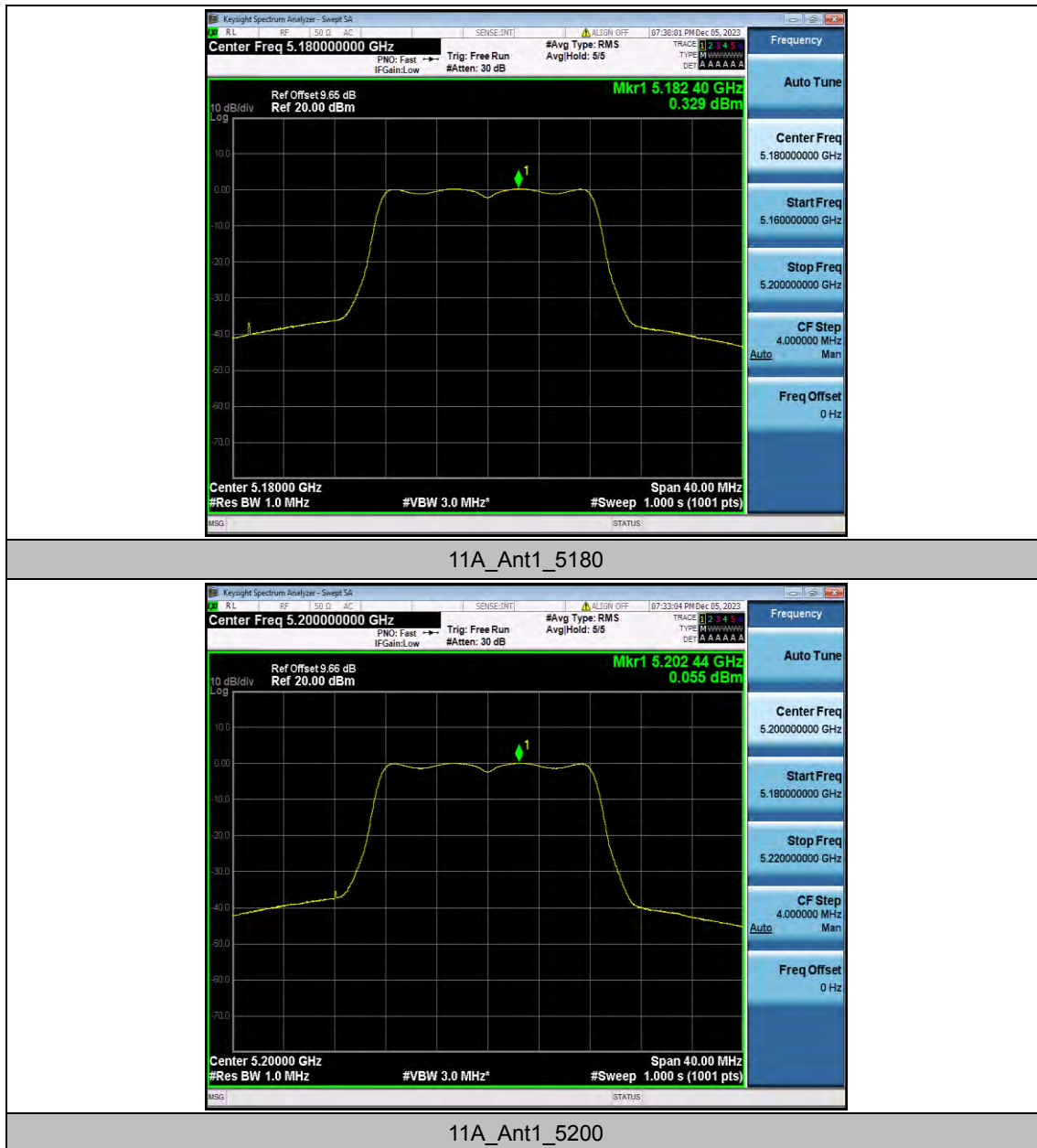
Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	0.33	≤11.00	PASS
		5200	0.06	≤11.00	PASS
		5240	-0.75	≤11.00	PASS
11N20SISO	Ant1	5180	0.43	≤11.00	PASS
		5200	0.09	≤11.00	PASS
		5240	-0.75	≤11.00	PASS
11N40SISO	Ant1	5190	-4.3	≤11.00	PASS
		5230	-5.18	≤11.00	PASS
11AC20SISO	Ant1	5180	-2.62	≤11.00	PASS
		5200	-2.88	≤11.00	PASS
		5240	-3.71	≤11.00	PASS
11AC40SISO	Ant1	5190	-5.41	≤11.00	PASS
		5230	-6.45	≤11.00	PASS
11AC80SISO	Ant1	5210	-8.33	≤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_Ant1_5200

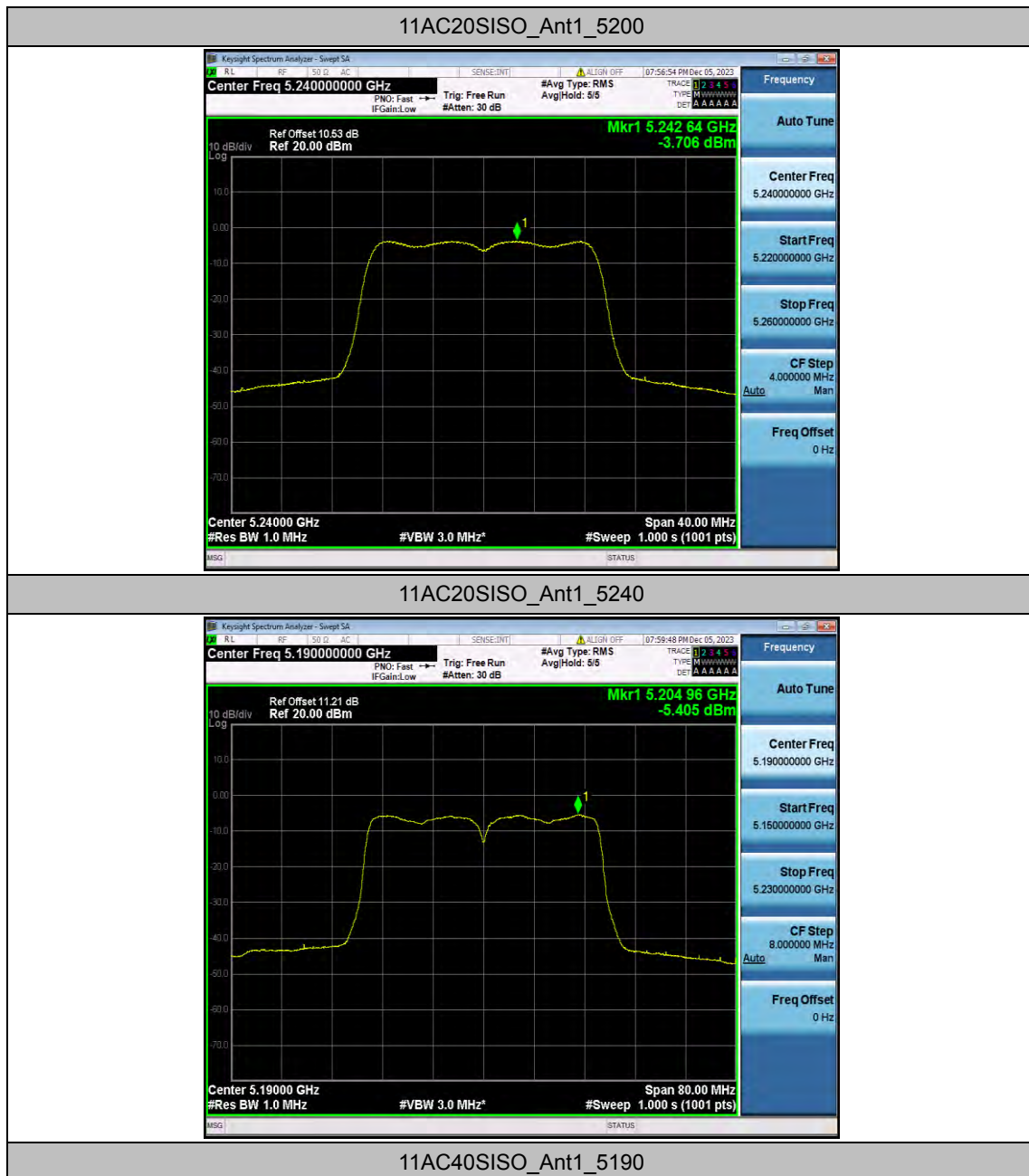


11N20SISO_Ant1_5240



11N40SISO_Ant1_5190







11AC40SISO_Ant1_5230



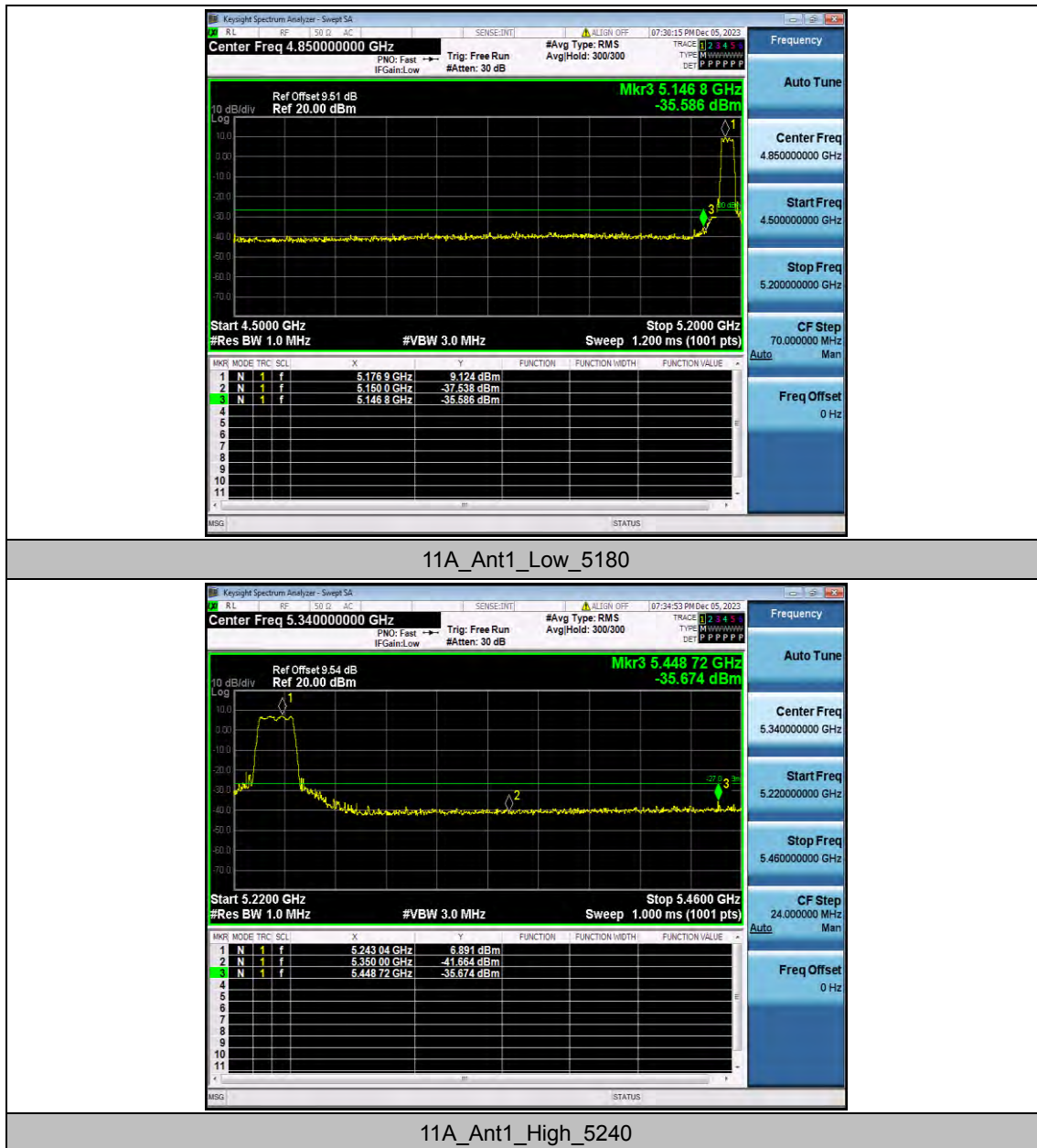
11AC80SISO_Ant1_5210

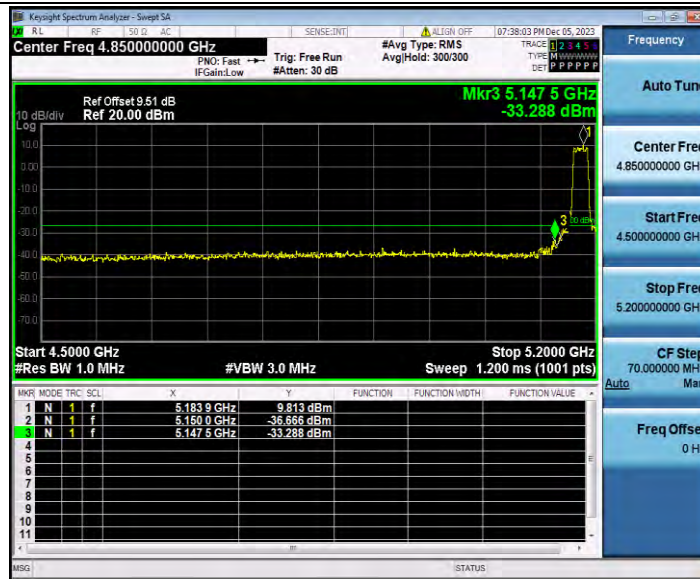
Appendix D.6: Band edge measurements

Test Result B1

Test Mode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-35.59	≤ -27	PASS
		High	5240	-35.67	≤ -27	PASS
11N20SISO	Ant1	Low	5180	-33.29	≤ -27	PASS
		High	5240	-37.77	≤ -27	PASS
11N40SISO	Ant1	Low	5190	-31.45	≤ -27	PASS
		High	5230	-37.52	≤ -27	PASS
11AC20SISO	Ant1	Low	5180	-36.4	≤ -27	PASS
		High	5240	-37.04	≤ -27	PASS
11AC40SISO	Ant1	Low	5190	-33.98	≤ -27	PASS
		High	5230	-38.13	≤ -27	PASS
11AC80SISO	Ant1	Low	5210	-30.43	≤ -27	PASS
		High	5210	-37.3	≤ -27	PASS

Test Graphs B1

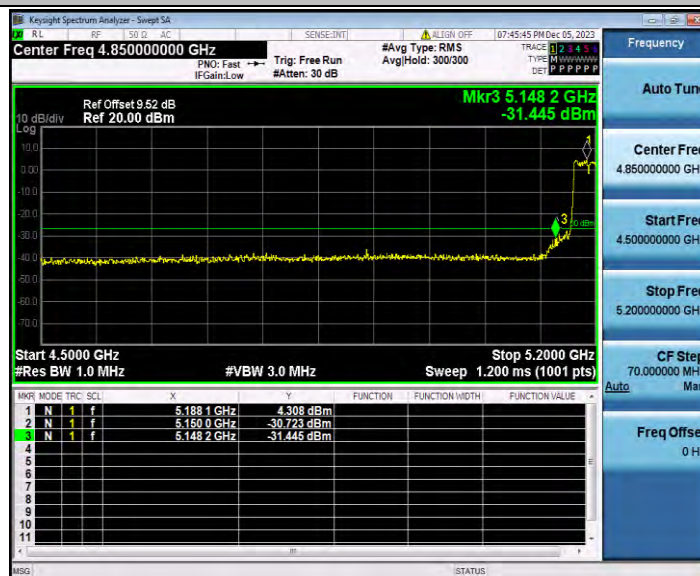




11N20SISO_Ant1_Low_5180



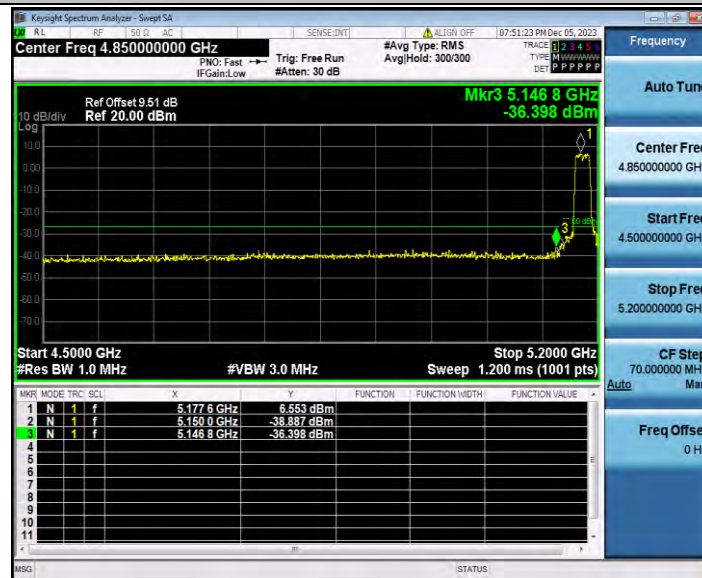
11N20SISO_Ant1_High_5240



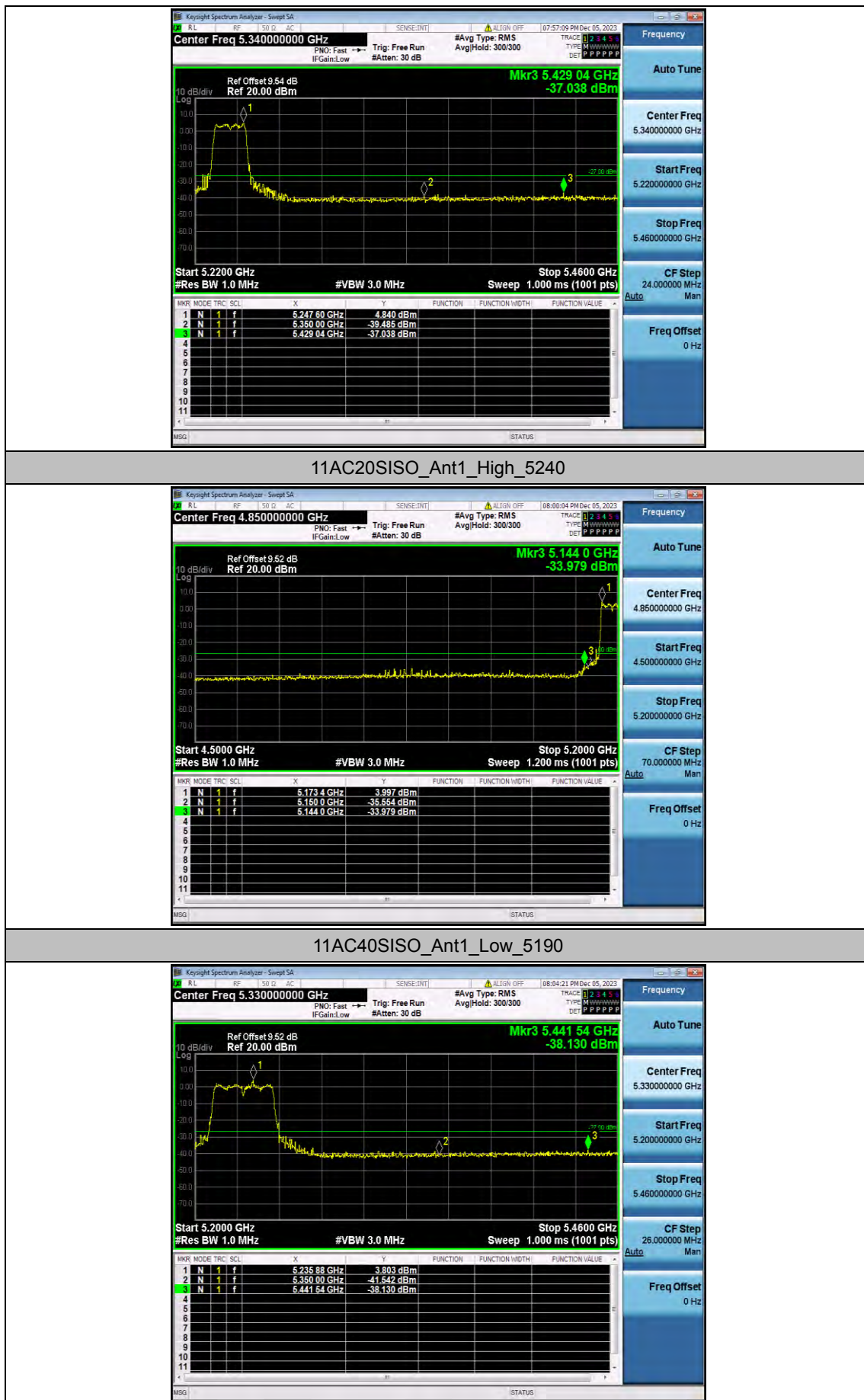
11N40SISO_Ant1_Low_5190



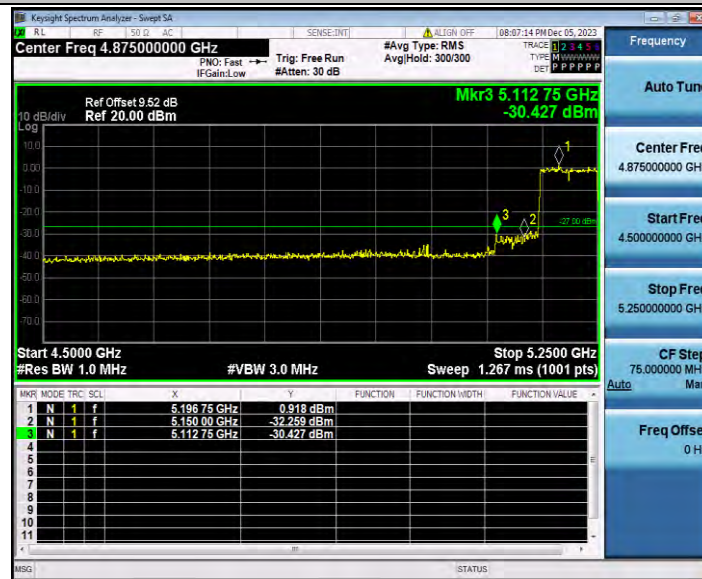
11N40SISO_Ant1_High_5230



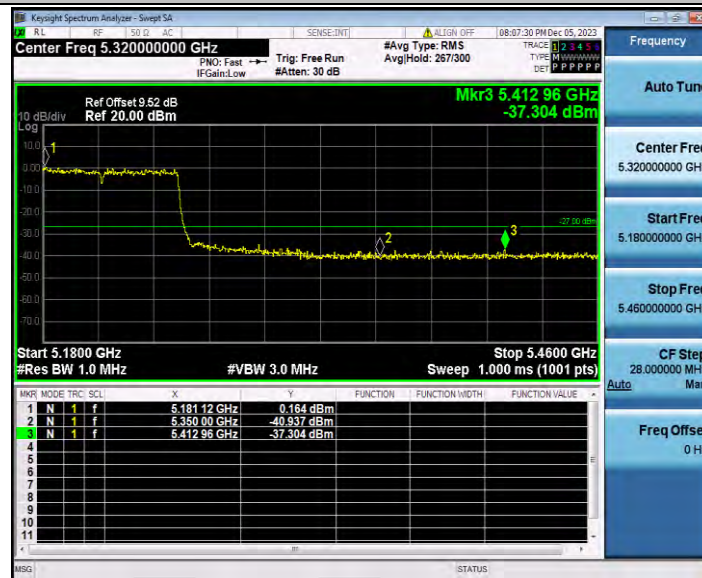
11AC20SISO_Ant1_Low_5180



11AC40SISO_Ant1_High_5230



11AC80SISO_Ant1_Low_5210



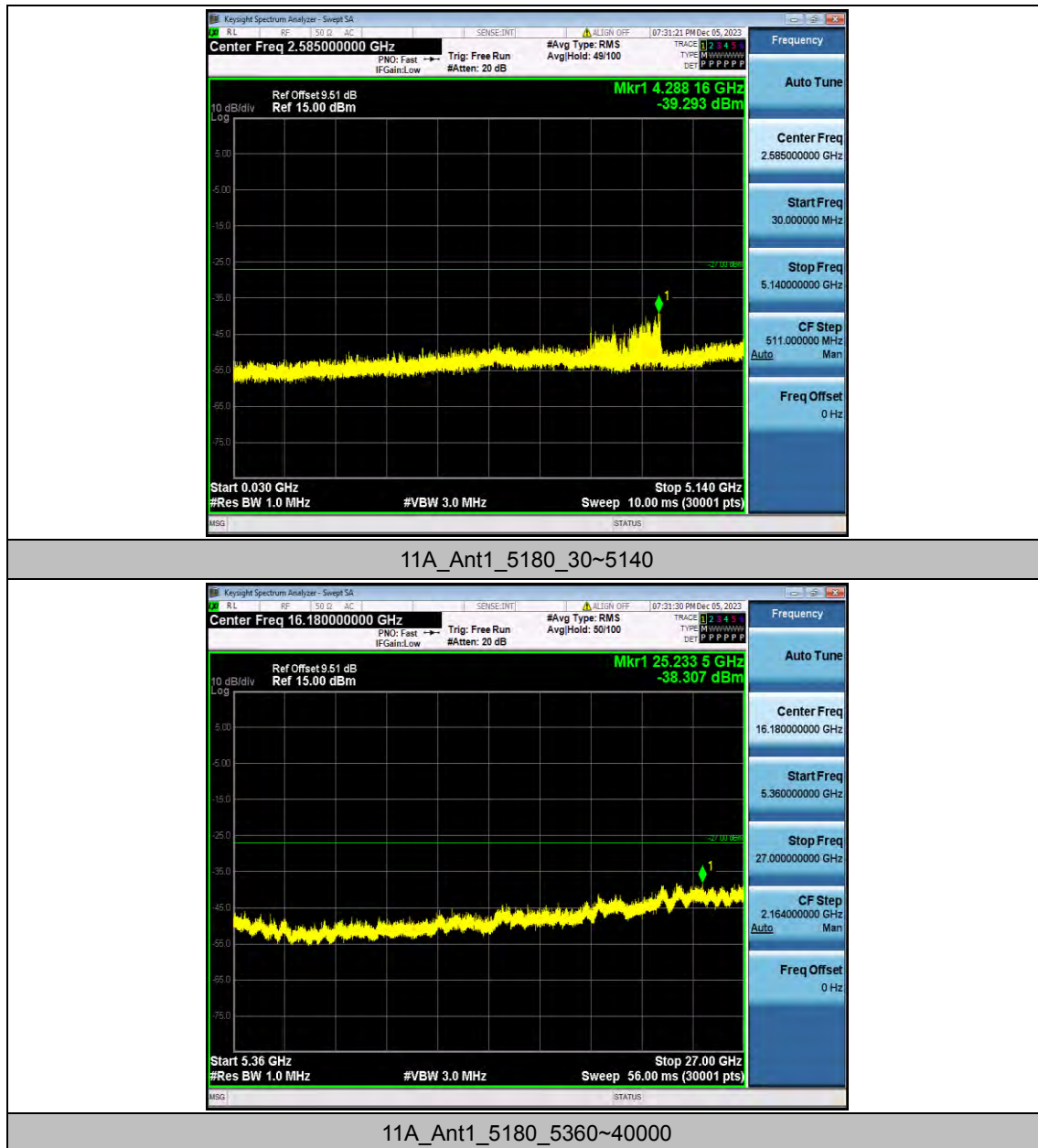
11AC80SISO_Ant1_High_5210

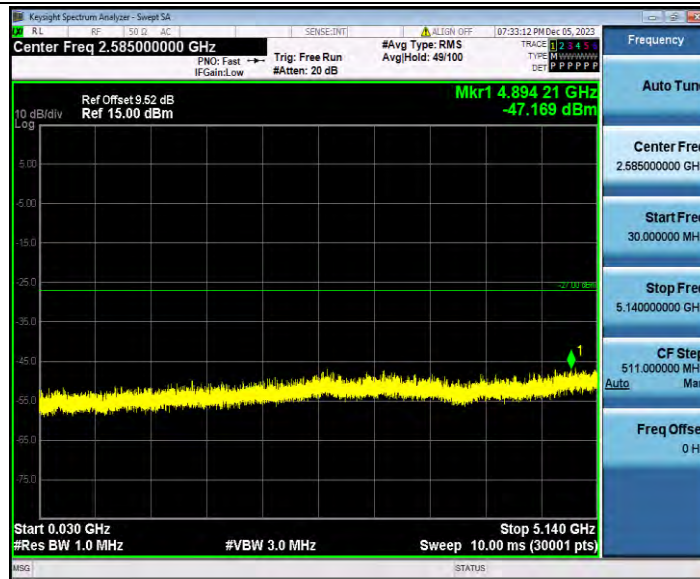
Appendix D.7: Conducted Spurious Emission

Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	30~5140	4288.16	-39.29	≤-27	PASS
			5360~40000	25233.45	-38.31	≤-27	PASS
		5200	30~5140	4894.21	-47.17	≤-27	PASS
			5360~40000	23593.86	-37.89	≤-27	PASS
		5240	30~5140	5108.15	-46.03	≤-27	PASS
			5360~40000	25083.42	-38.27	≤-27	PASS
11N20SISO	Ant1	5180	30~5140	5135.4	-37.82	≤-27	PASS
			5360~40000	26488.57	-37.97	≤-27	PASS
		5200	30~5140	4284.59	-36.6	≤-27	PASS
			5360~40000	26647.99	-37.96	≤-27	PASS
		5240	30~5140	5042.23	-46.15	≤-27	PASS
			5360~40000	5935.62	-37.61	≤-27	PASS
11N40SISO	Ant1	5190	30~5140	5139.49	-40.06	≤-27	PASS
			5360~40000	23541.21	-37.42	≤-27	PASS
		5230	30~5140	4688.45	-46.38	≤-27	PASS
			5360~40000	25575.37	-37.94	≤-27	PASS
11AC20SISO	Ant1	5180	30~5140	4857.59	-45.98	≤-27	PASS
			5360~40000	24274.8	-37.88	≤-27	PASS
		5200	30~5140	4972.9	-47.16	≤-27	PASS
			5360~40000	24194.73	-38.16	≤-27	PASS
		5240	30~5140	4938.33	-47.09	≤-27	PASS
			5360~40000	24230.8	-37.55	≤-27	PASS
11AC40SISO	Ant1	5190	30~5140	4354.25	-37.75	≤-27	PASS
			5360~40000	26567.2	-37.79	≤-27	PASS
		5230	30~5140	4270.28	-38.7	≤-27	PASS
			5360~40000	25169.98	-37.21	≤-27	PASS
11AC80SISO	Ant1	5210	30~5140	5119.56	-32.64	≤-27	PASS
			5360~40000	5753.13	-36.25	≤-27	PASS

Test Graphs

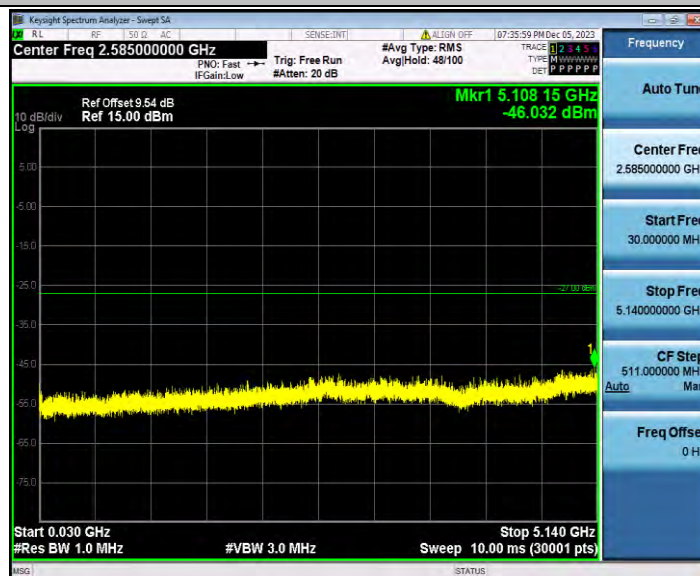




11A_Ant1_5200_30~5140



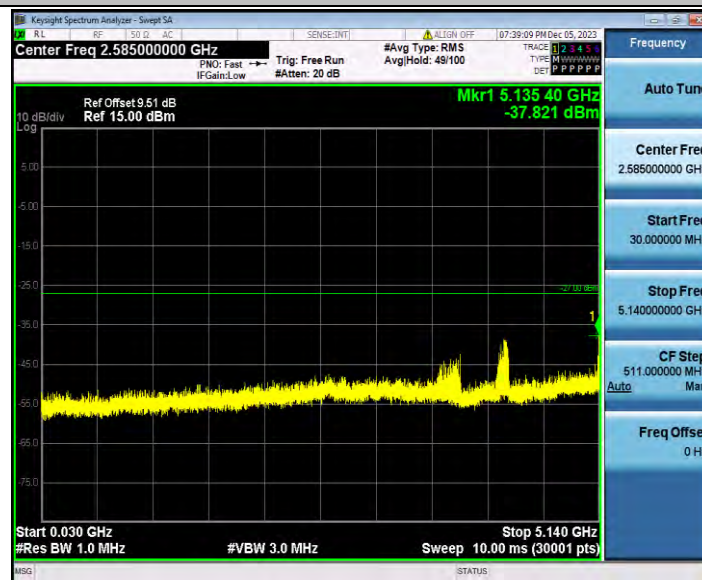
11A_Ant1_5200_5360~40000



11A_Ant1_5240_30~5140



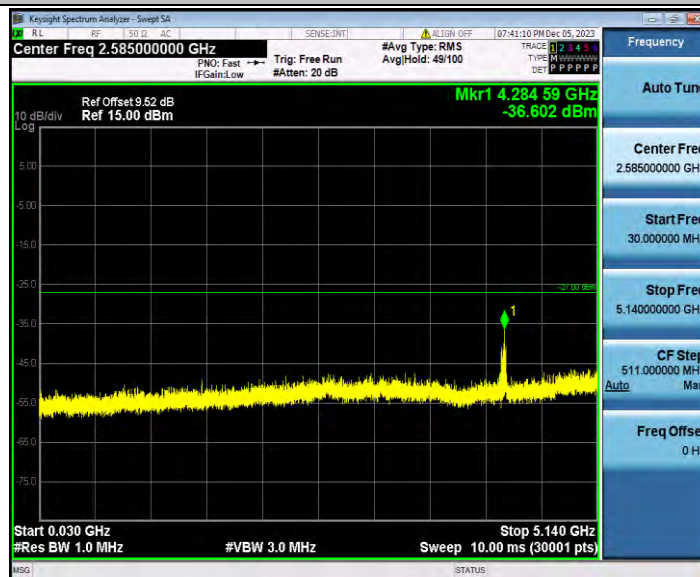
11A_Ant1_5240_5360~40000



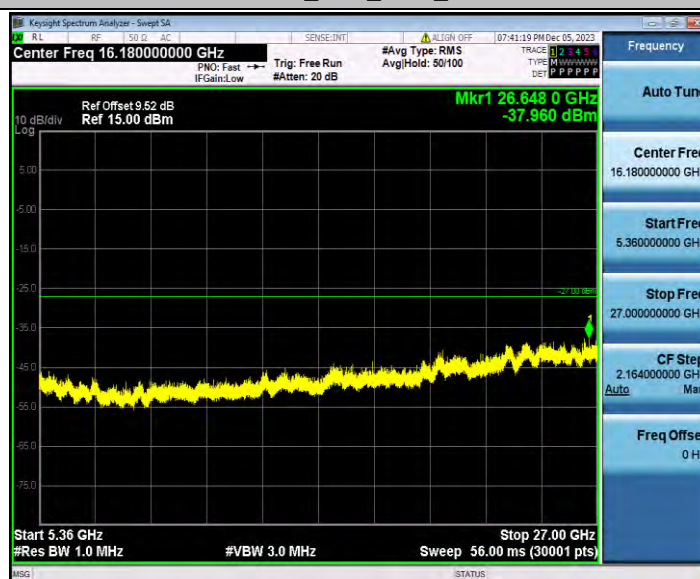
11N20SISO_Ant1_5180_30~5140



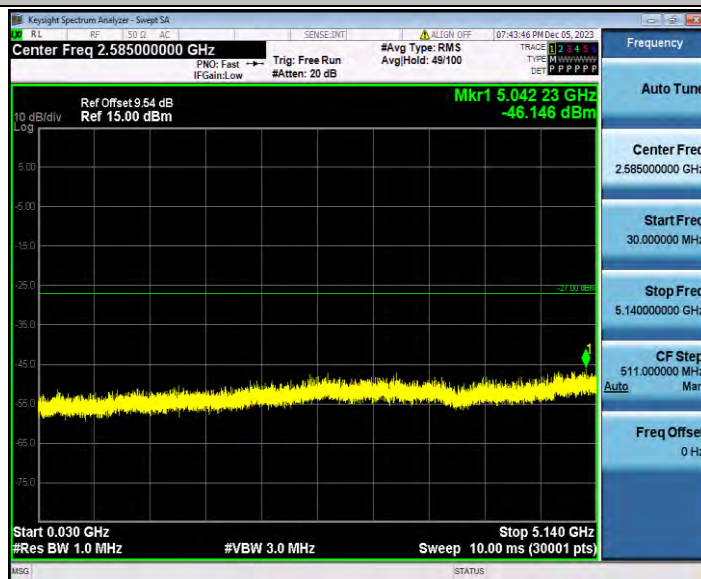
11N20SISO_Ant1_5180_5360~40000



11N20SISO_Ant1_5200_30~5140



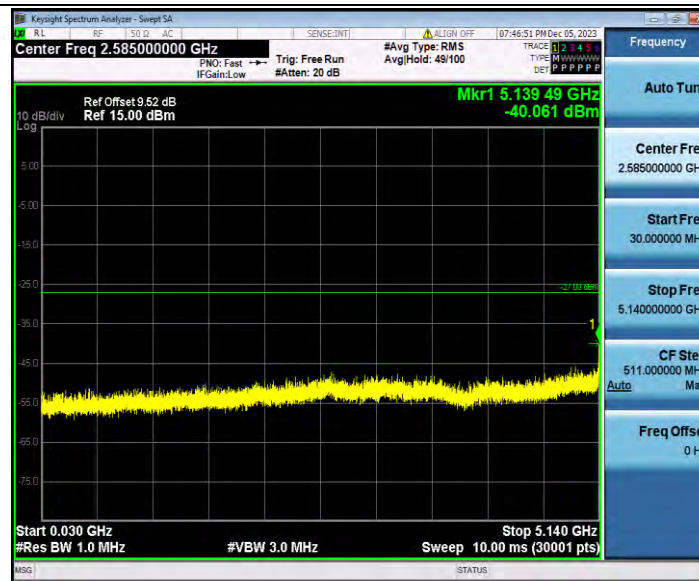
11N20SISO_Ant1_5200_5360~40000



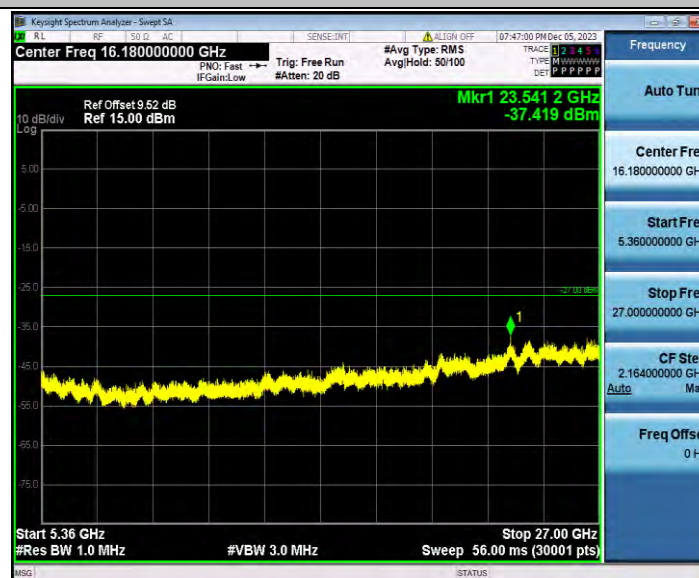
11N20SISO_Ant1_5240_30~5140



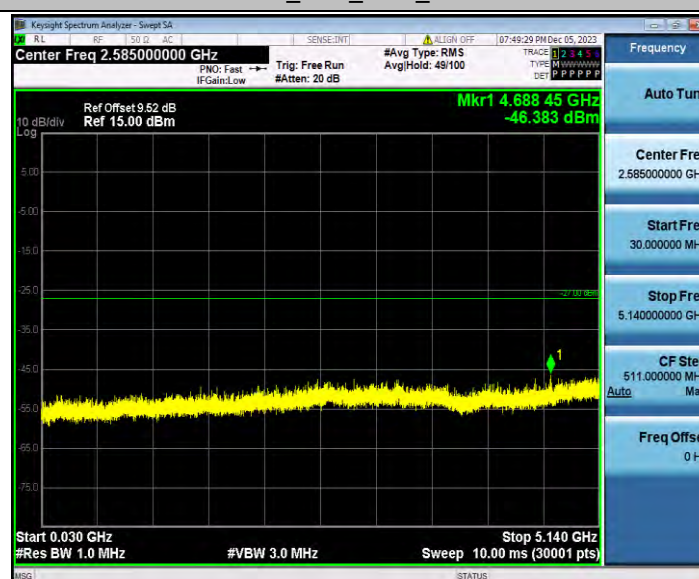
11N20SISO_Ant1_5240_5360~40000



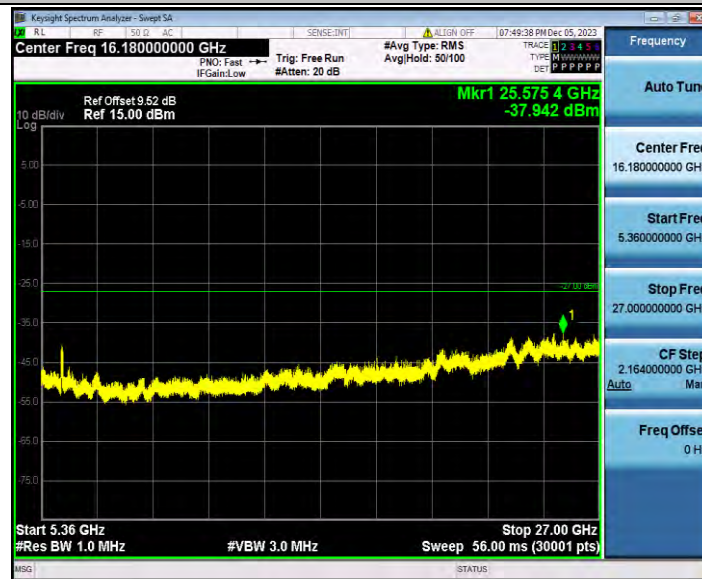
11N40SISO_Ant1_5190_30~5140



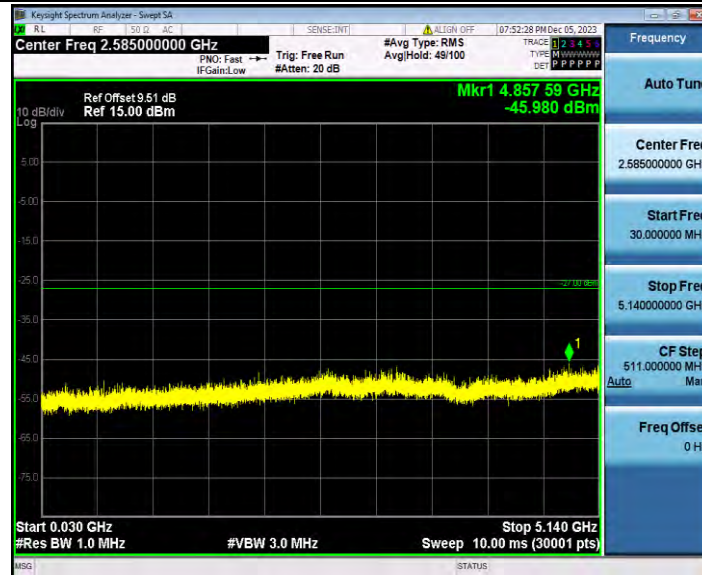
11N40SISO_Ant1_5190_5360~40000



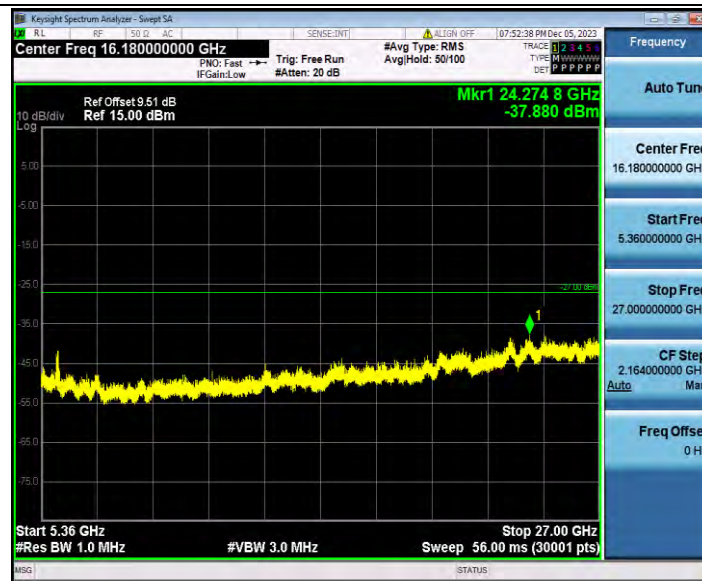
11N40SISO_Ant1_5230_30~5140



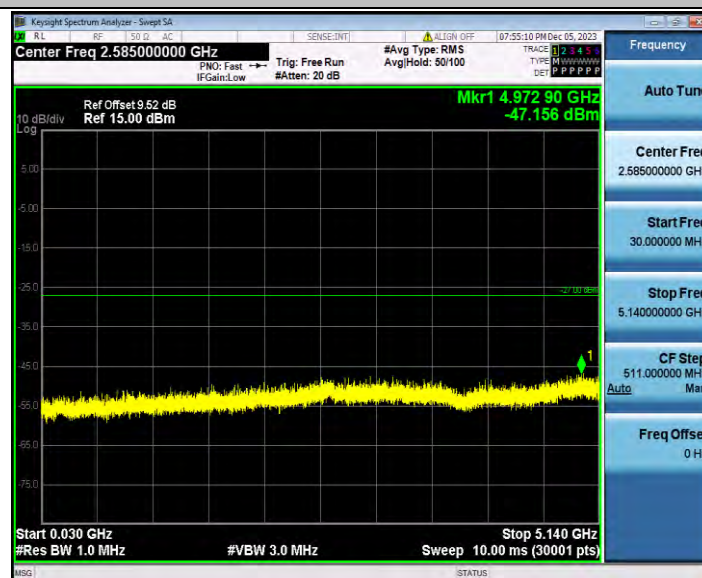
11N40SISO_Ant1_5230_5360~40000



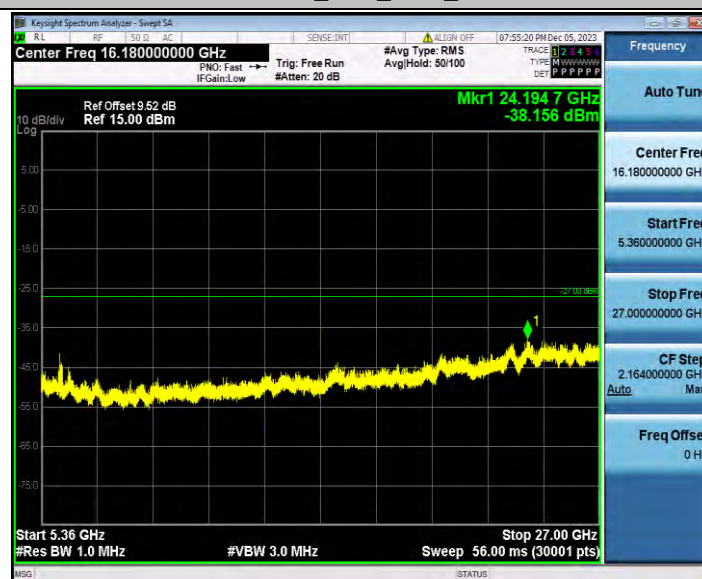
11AC20SISO_Ant1_5180_30~5140



11AC20SISO_Ant1_5180_5360~40000



11AC20SISO_Ant1_5200_30~5140



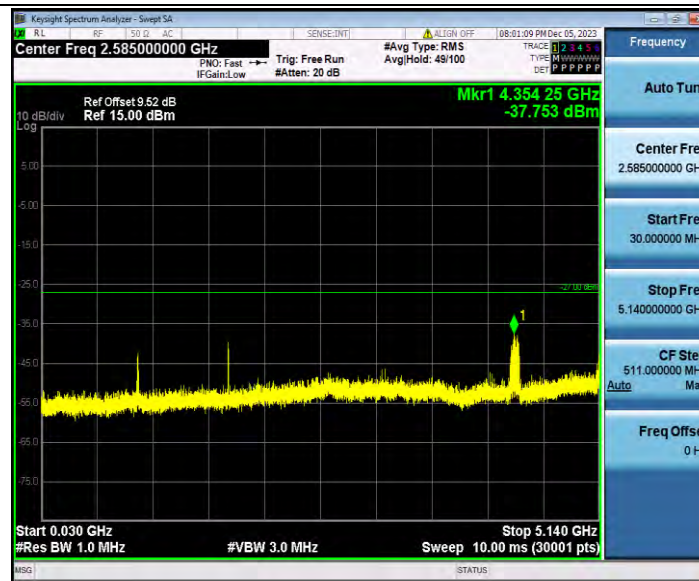
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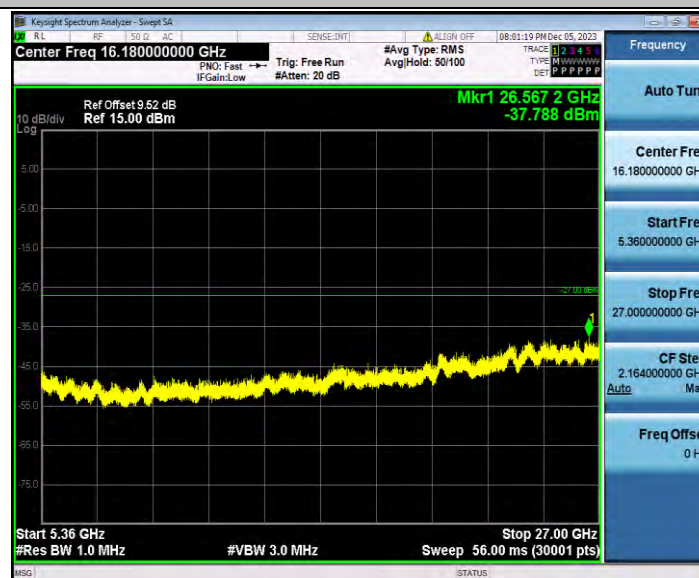
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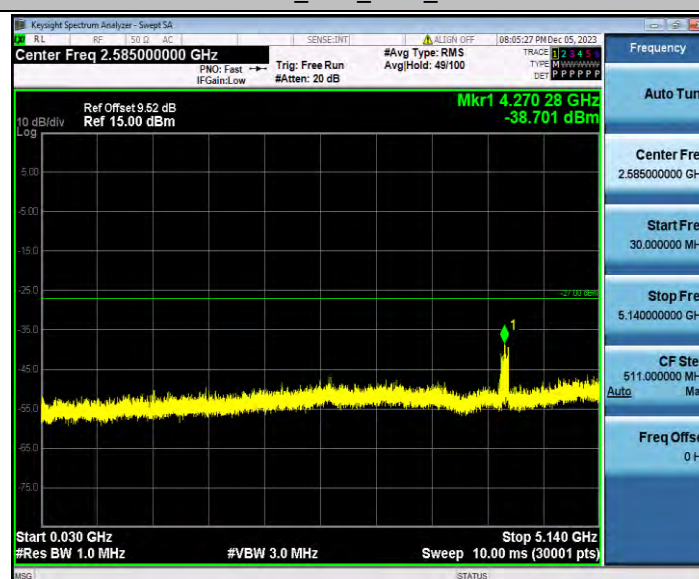
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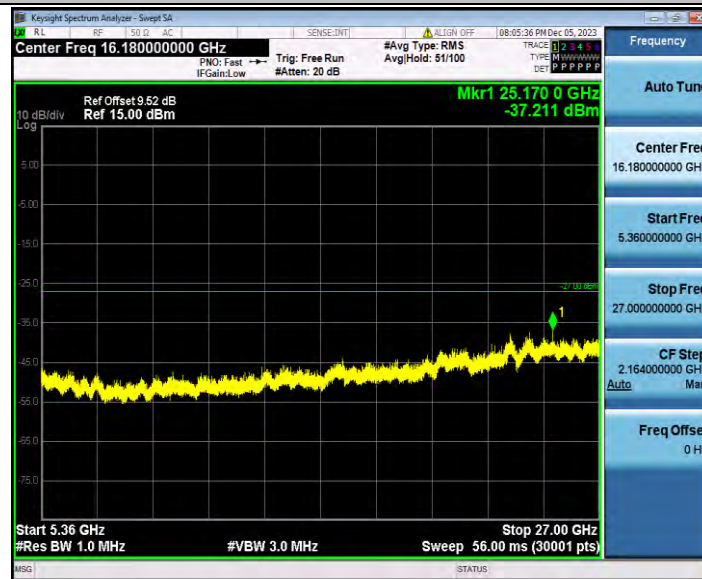
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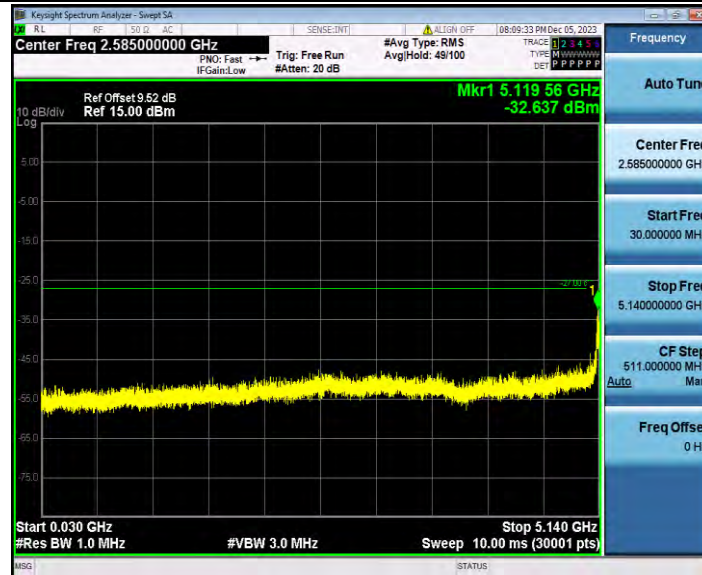
11AC40SISO_Ant1_5190_5360~40000



11AC40SISO_Ant1_5230_30~5140



11AC40SISO_Ant1_5230_5360~40000



11AC80SISO_Ant1_5210_30~5140

