

Case No. : <u>GTS20250213022-1-04</u>	
Ambient Condition: <u>22</u> °C, <u>48</u> %RH	
According Standard: ■Part15E	
Test Date: <u>2025.2.17—2025.3.4</u>	Test Engineer: <u>Evan ouyang</u>

Appendix D.1: Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	19.840	5170.080	5189.920	---	---
		5200	19.960	5189.960	5209.920	---	---
		5240	20.080	5229.920	5250.000	---	---
11N20SISO	Ant1	5180	20.240	5169.880	5190.120	---	---
		5200	20.960	5189.360	5210.320	---	---
		5240	20.960	5229.520	5250.480	---	---
11N40SISO	Ant1	5190	40.960	5169.360	5210.320	---	---
		5230	62.000	5200.720	5262.720	---	---
11AC20SISO	Ant1	5180	20.320	5169.880	5190.200	---	---
		5200	20.320	5189.880	5210.200	---	---
		5240	20.360	5229.800	5250.160	---	---
11AC40SISO	Ant1	5190	40.400	5170.000	5210.400	---	---
		5230	40.320	5209.760	5250.080	---	---
11AC80SISO	Ant1	5210	80.800	5169.840	5250.640	---	---

Test Graphs

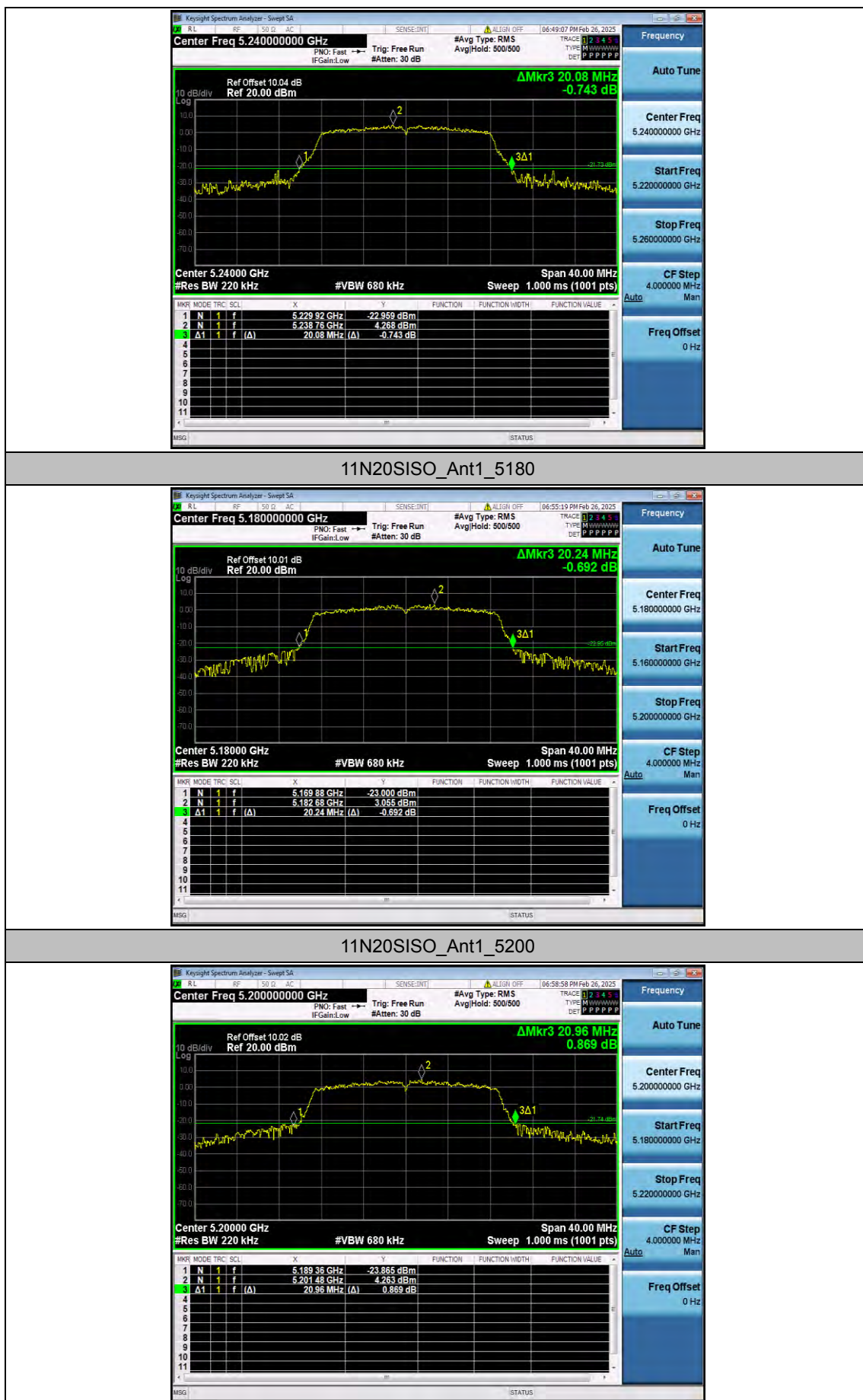
11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240



11N20SISO_Ant1_5240



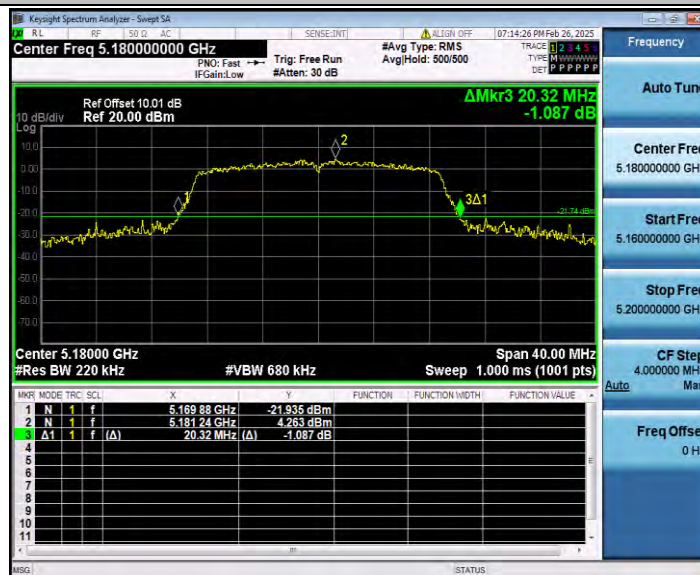
11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



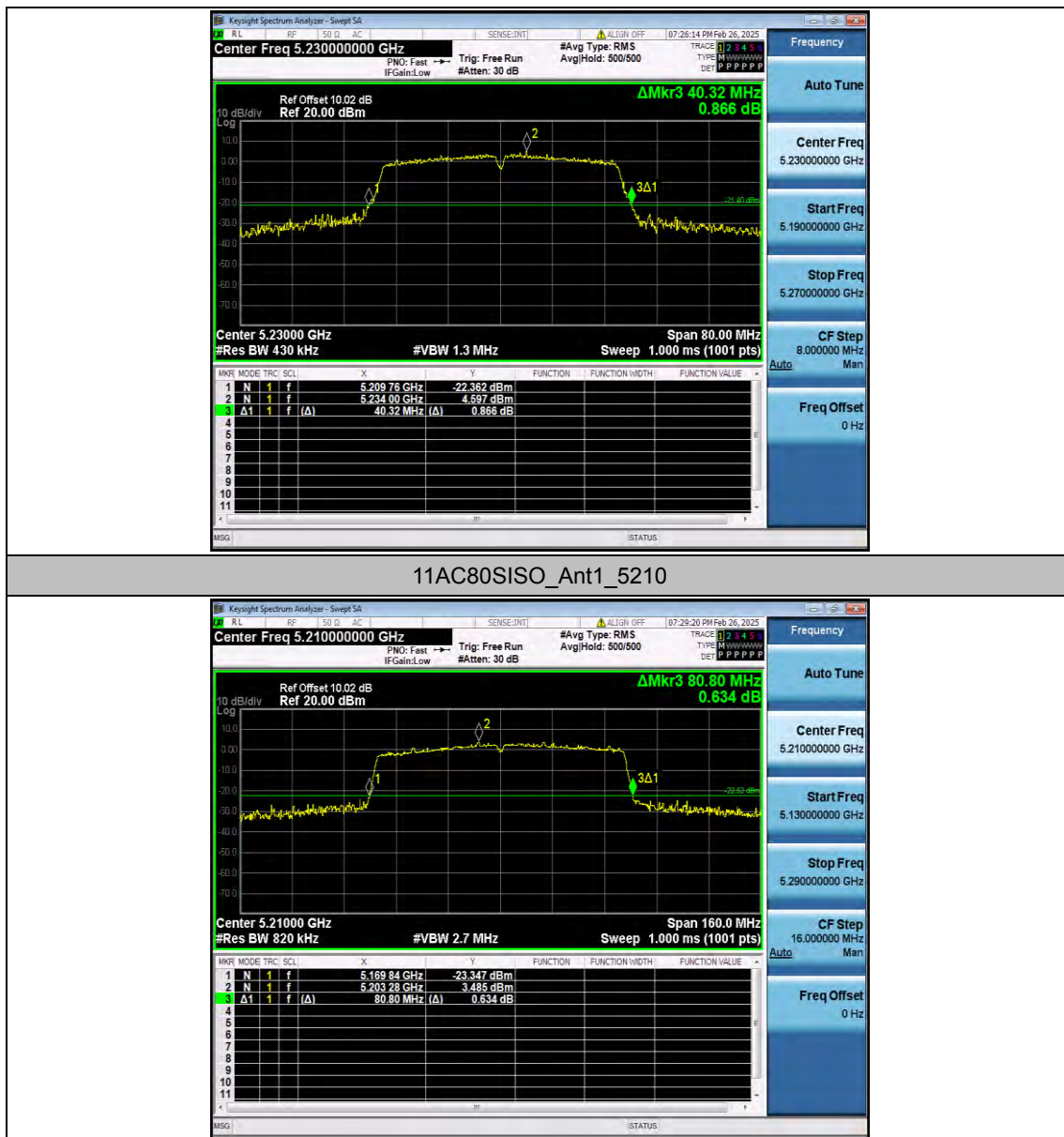
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



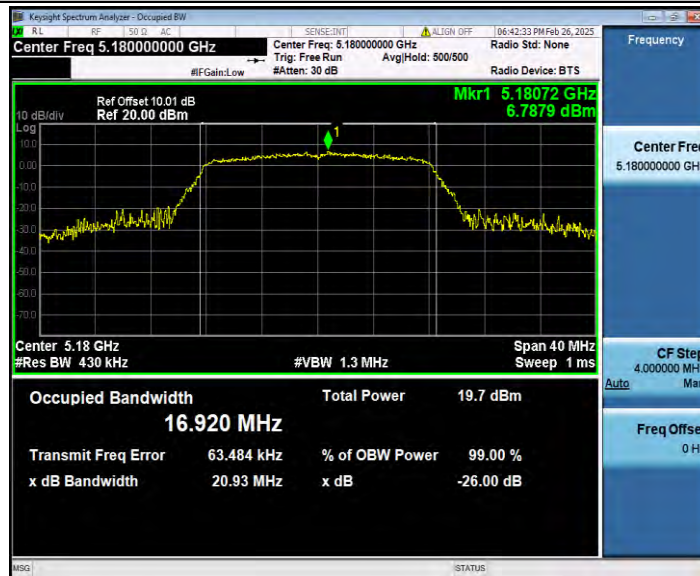
Appendix D.2: Occupied channel bandwidth

Test Result

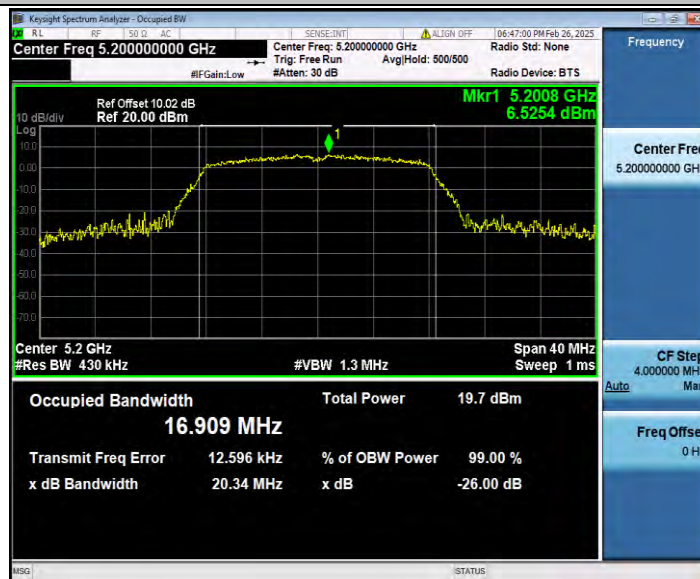
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.920	5171.6035	5188.5235	---	---
		5200	16.909	5191.5581	5208.4671	---	---
		5240	16.959	5231.5450	5248.5040	---	---
11N20SISO	Ant1	5180	17.961	5171.0348	5188.9958	---	---
		5200	18.002	5191.0169	5209.0189	---	---
		5240	17.989	5230.9810	5248.9700	---	---
11N40SISO	Ant1	5190	36.517	5171.8522	5208.3692	---	---
		5230	36.870	5211.6305	5248.5005	---	---
11AC20SISO	Ant1	5180	17.898	5171.0968	5188.9948	---	---
		5200	17.929	5191.0700	5208.9990	---	---
		5240	17.951	5231.0152	5248.9662	---	---
11AC40SISO	Ant1	5190	36.279	5171.9450	5208.2240	---	---
		5230	36.287	5211.9103	5248.1973	---	---
11AC80SISO	Ant1	5210	75.274	5172.6529	5247.9269	---	---

Test Graphs

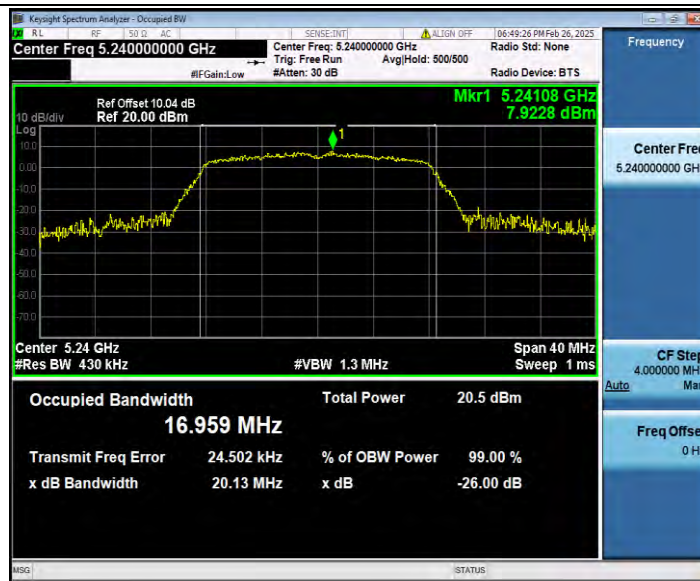
11A_Ant1_5180



11A_Ant1_5200



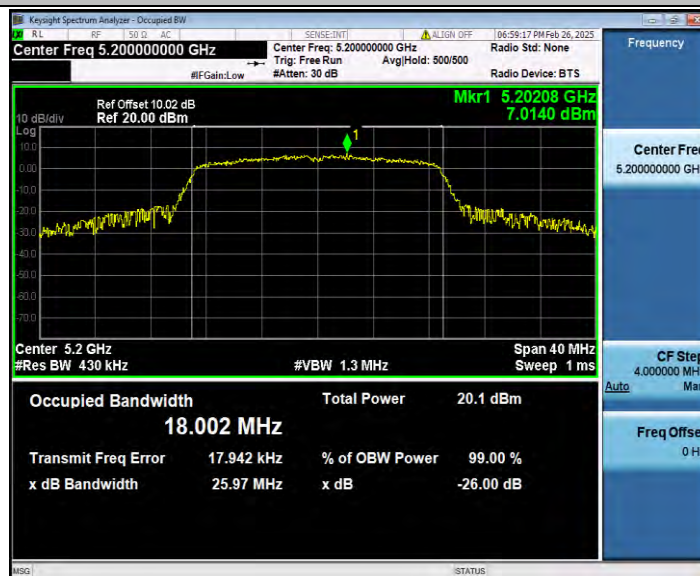
11A_Ant1_5240



11N20SISO_Ant1_5180



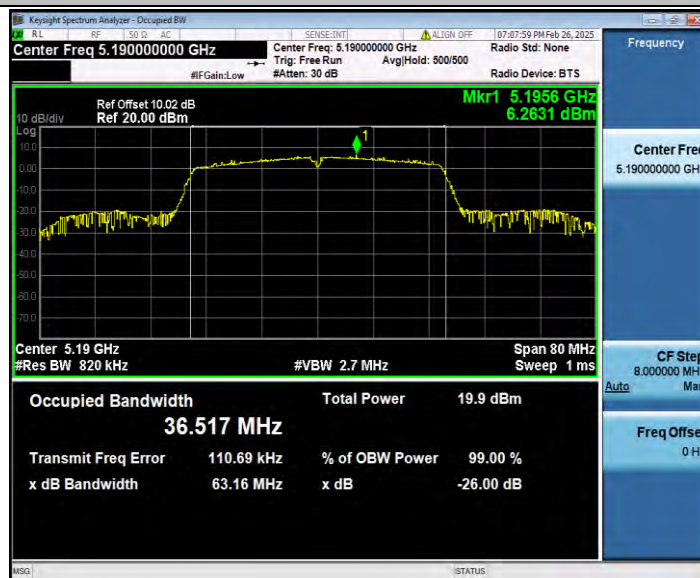
11N20SISO_Ant1_5200



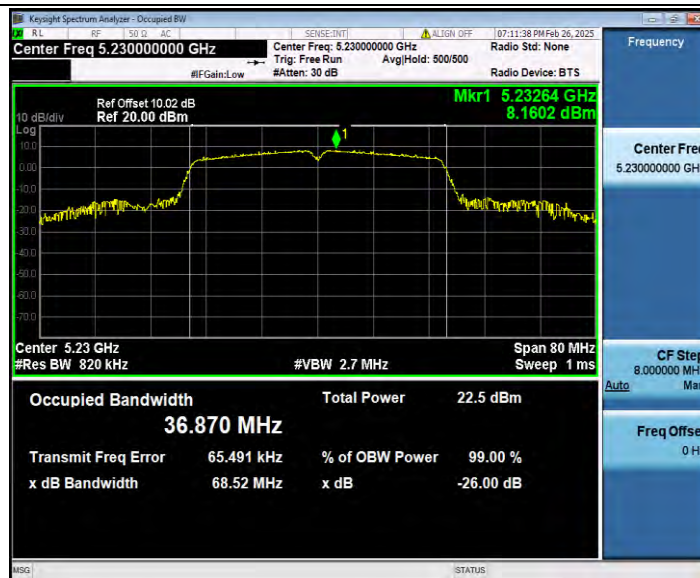
11N20SISO_Ant1_5240



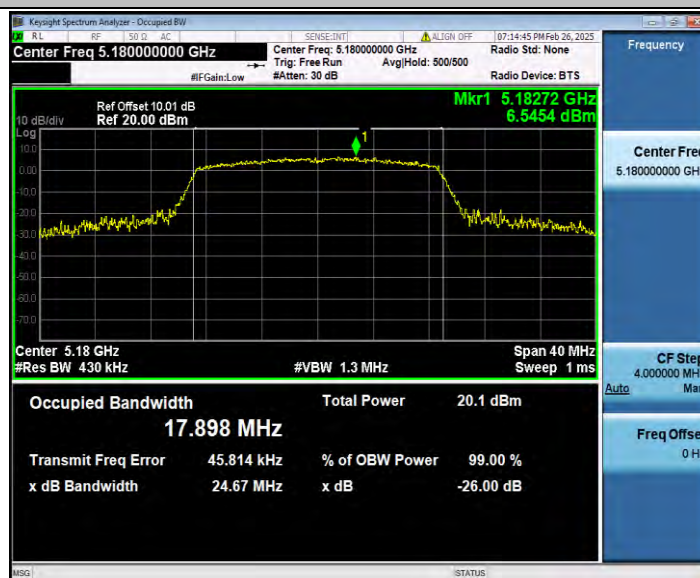
11N40SISO_Ant1_5190



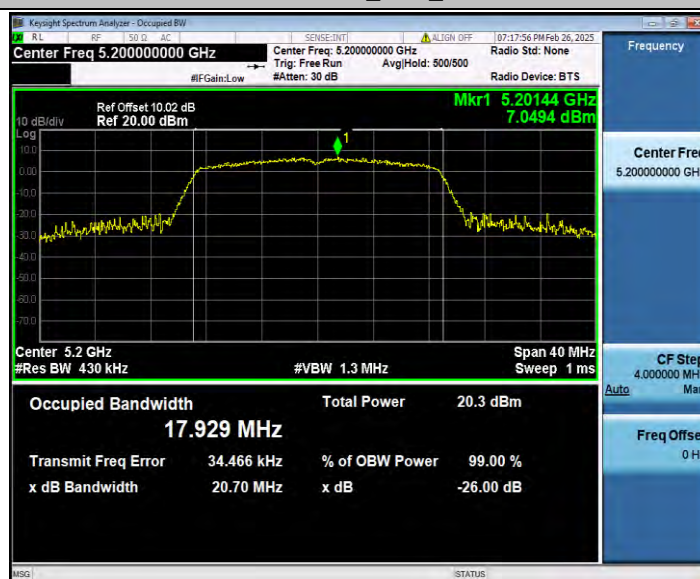
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



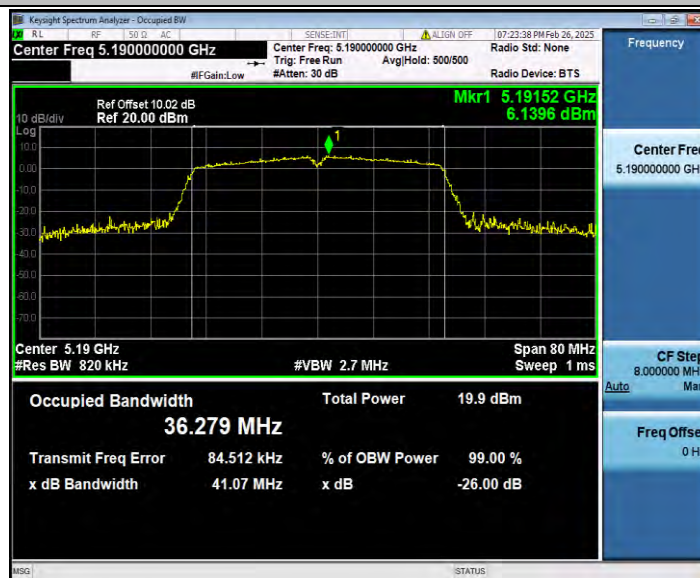
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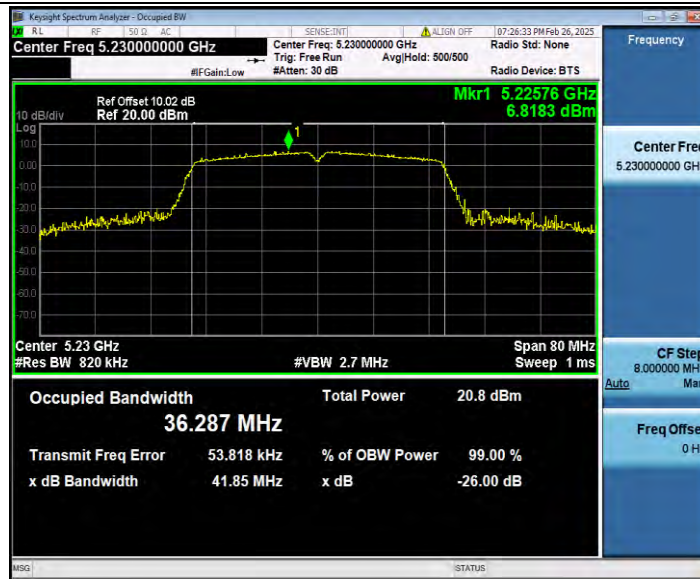
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210

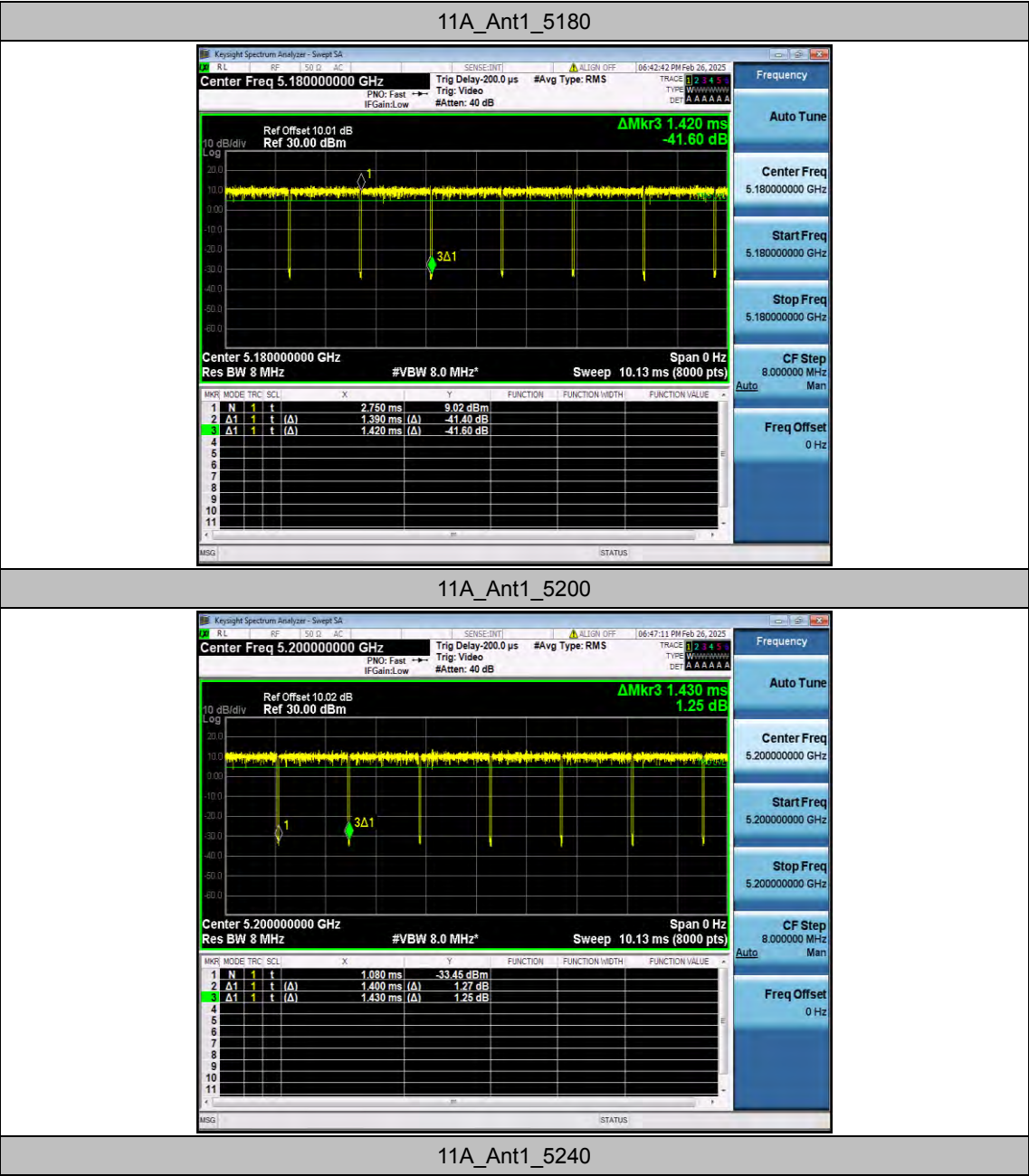


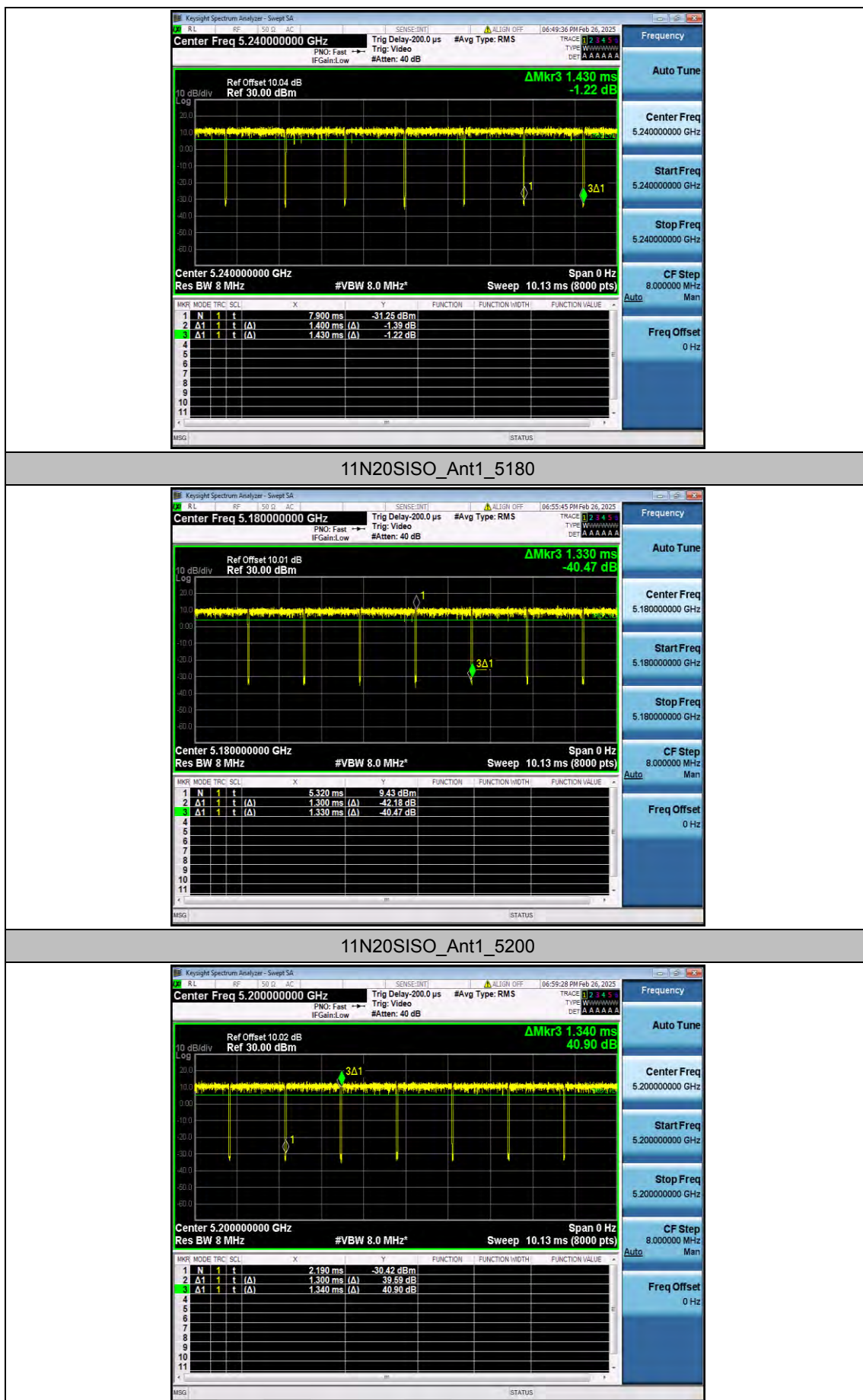
Appendix D.3: Duty Cycle

Test Result

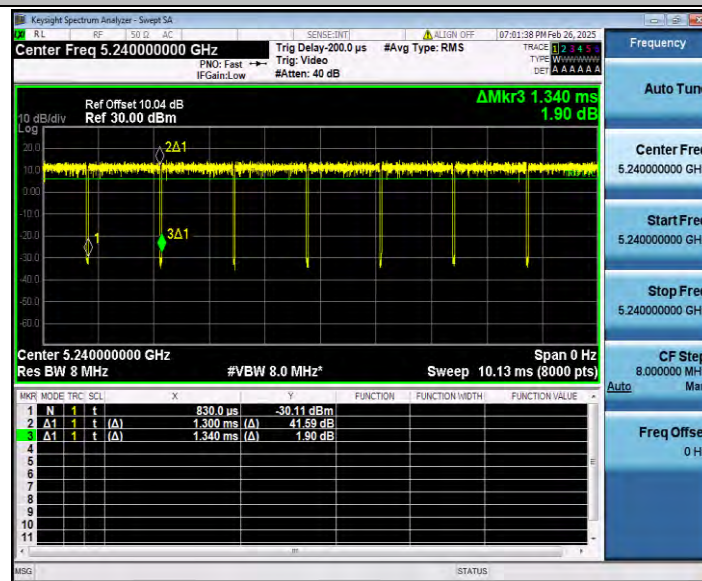
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5180	1.39	1.42	97.89	0.09	0.72
		5200	1.40	1.43	97.90	0.09	0.71
		5240	1.40	1.43	97.90	0.09	0.71
11N20SISO	Ant1	5180	1.30	1.33	97.74	0.10	0.77
		5200	1.30	1.34	97.01	0.13	0.77
		5240	1.30	1.34	97.01	0.13	0.77
11N40SISO	Ant1	5190	0.65	0.68	95.59	0.20	1.54
		5230	0.65	0.68	95.59	0.20	1.54
11AC20SISO	Ant1	5180	1.31	1.34	97.76	0.10	0.76
		5200	1.31	1.34	97.76	0.10	0.76
		5240	1.31	1.35	97.04	0.13	0.76
11AC40SISO	Ant1	5190	0.65	0.69	94.20	0.26	1.54
		5230	0.65	0.68	95.59	0.20	1.54
11AC80SISO	Ant1	5210	0.33	0.36	91.67	0.38	3.03

Test Graphs

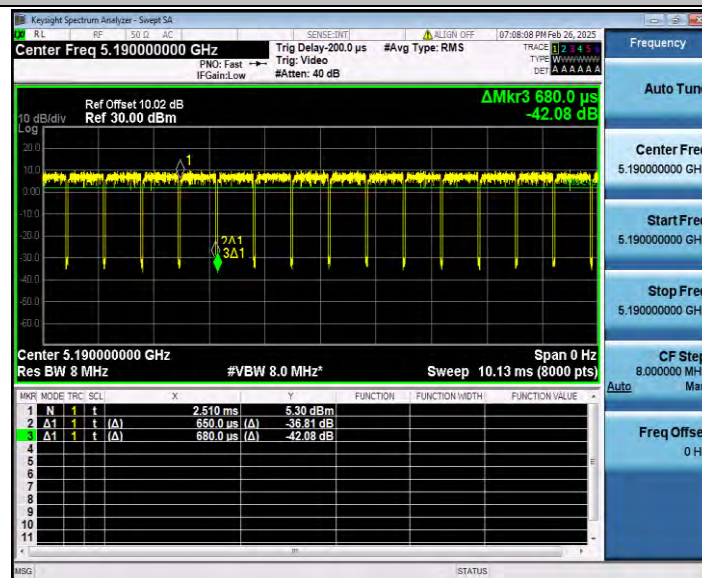




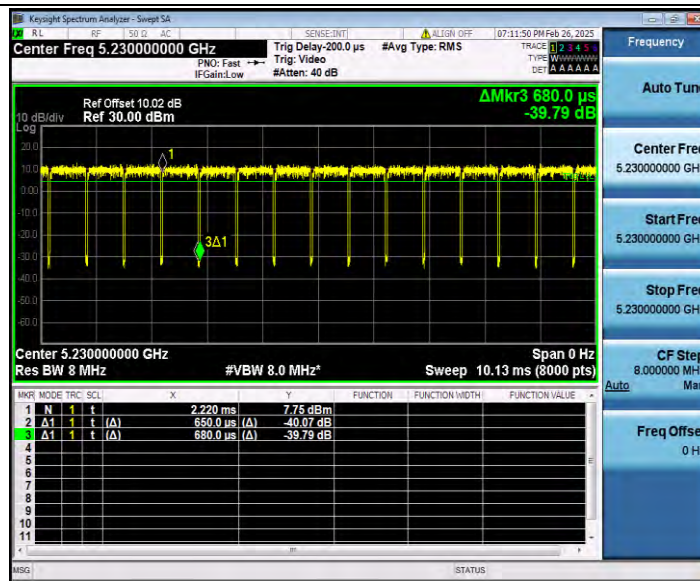
11N20SISO_Ant1_5240



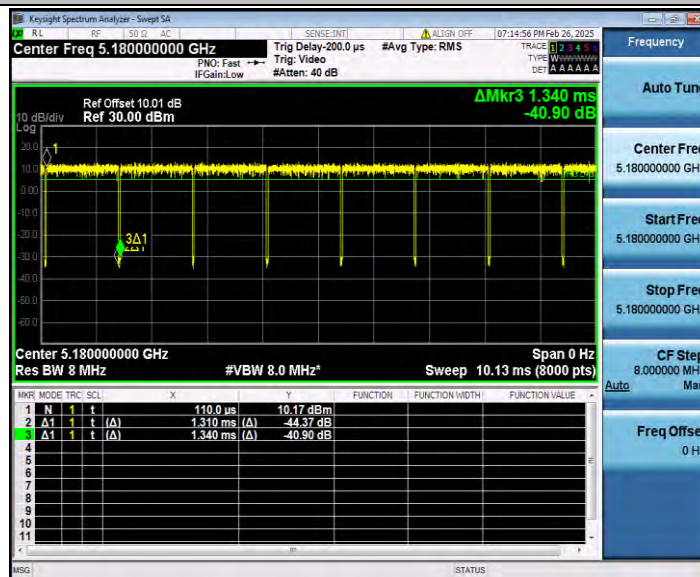
11N40SISO_Ant1_5190



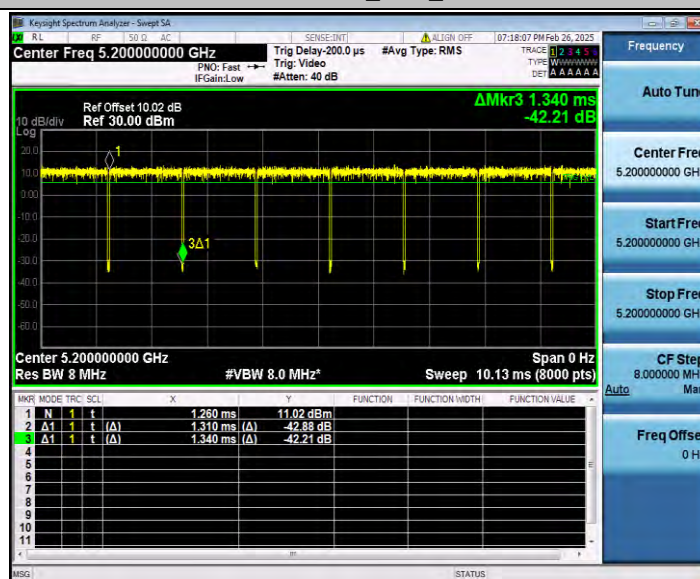
11N40SISO_Ant1_5230



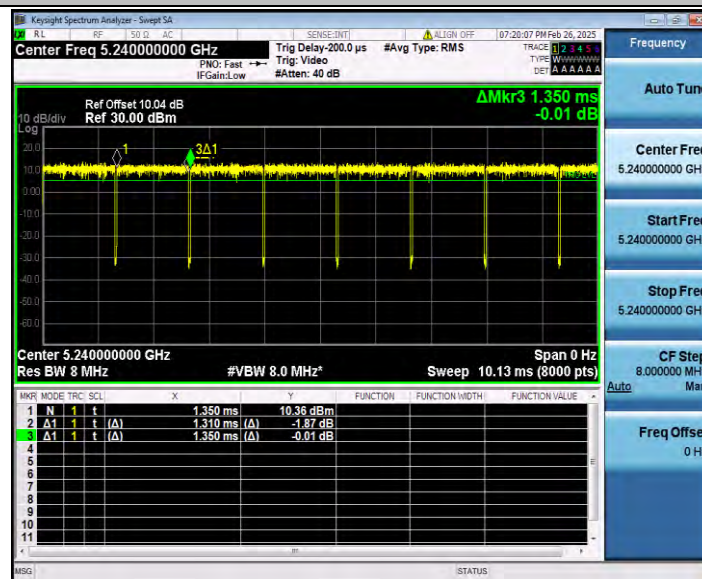
11AC20SISO_Ant1_5180



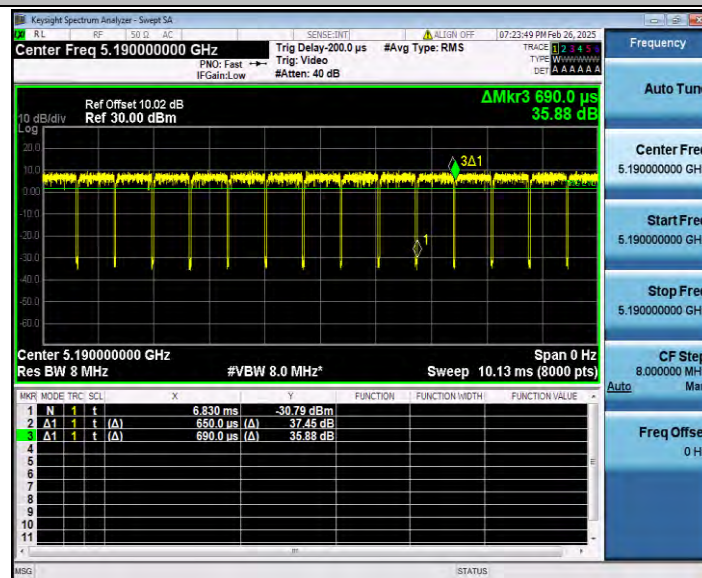
11AC20SISO_Ant1_5200



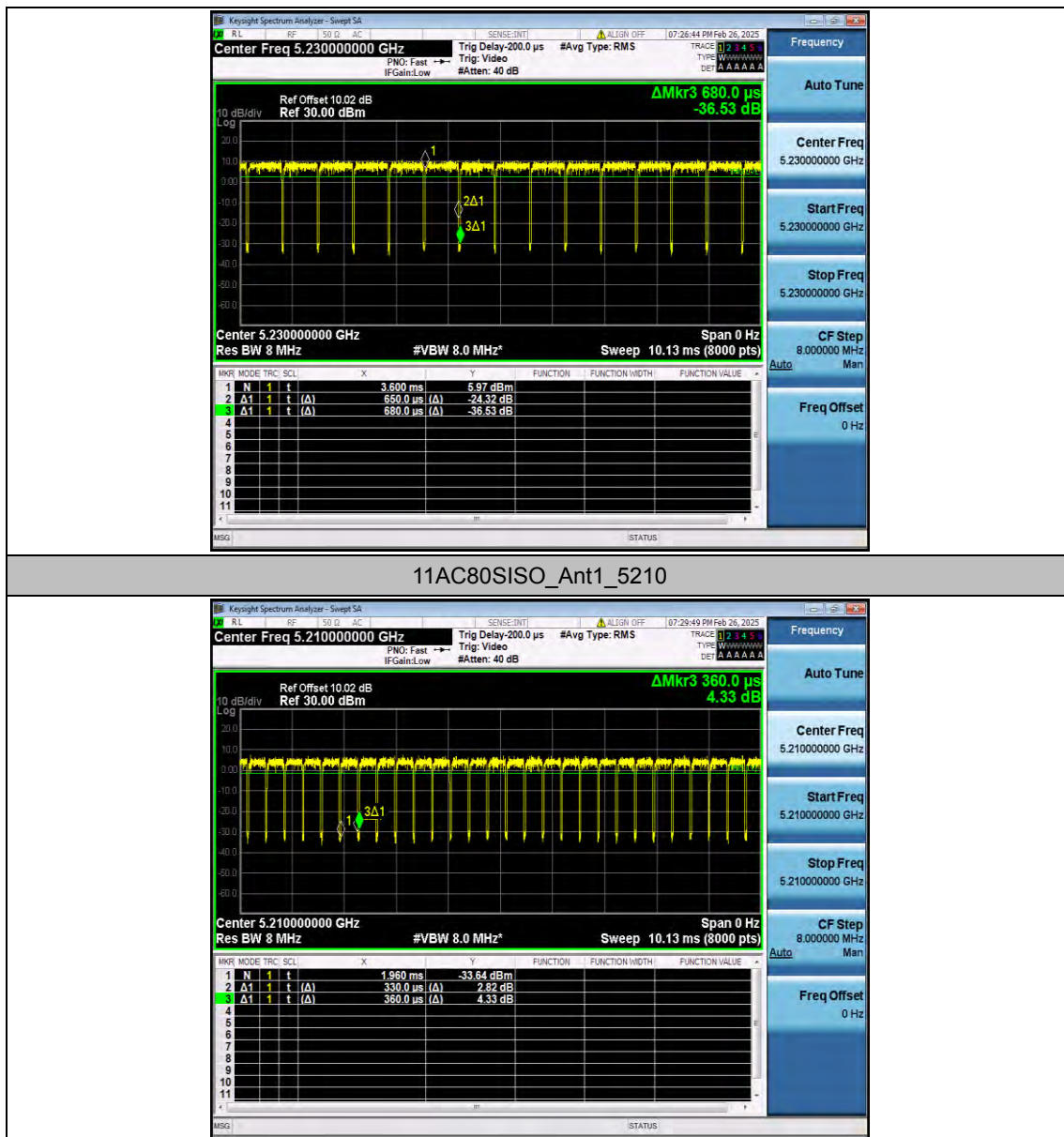
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



Appendix D.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Freq(MHz)	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	12.41	97.89	0.09	12.50	≤23.98	PASS
		5200	12.83	97.90	0.09	12.92	≤23.98	PASS
		5240	13.63	97.90	0.09	13.72	≤23.98	PASS
11N20SISO	Ant1	5180	11.98	97.74	0.10	12.08	≤23.98	PASS
		5200	13.35	97.01	0.13	13.48	≤23.98	PASS
		5240	13.92	97.01	0.13	14.05	≤23.98	PASS
11N40SISO	Ant1	5190	12.38	95.59	0.20	12.58	≤23.98	PASS
		5230	14.97	95.59	0.20	15.17	≤23.98	PASS
11AC20SISO	Ant1	5180	13.20	97.76	0.10	13.30	≤23.98	PASS
		5200	13.40	97.76	0.10	13.50	≤23.98	PASS
		5240	13.27	97.04	0.13	13.40	≤23.98	PASS
11AC40SISO	Ant1	5190	12.31	94.20	0.26	12.57	≤23.98	PASS
		5230	13.28	95.59	0.20	13.48	≤23.98	PASS
11AC80SISO	Ant1	5210	12.23	91.67	0.38	12.61	≤23.98	PASS

Appendix D.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	1.86	≤11.00	PASS
		5200	2.31	≤11.00	PASS
		5240	3.01	≤11.00	PASS
11N20SISO	Ant1	5180	1.31	≤11.00	PASS
		5200	2.81	≤11.00	PASS
		5240	3.42	≤11.00	PASS
11N40SISO	Ant1	5190	-0.88	≤11.00	PASS
		5230	1.69	≤11.00	PASS
11AC20SISO	Ant1	5180	2.72	≤11.00	PASS
		5200	2.81	≤11.00	PASS
		5240	2.69	≤11.00	PASS
11AC40SISO	Ant1	5190	-0.77	≤11.00	PASS
		5230	-0.02	≤11.00	PASS
11AC80SISO	Ant1	5210	-3.78	≤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

11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240



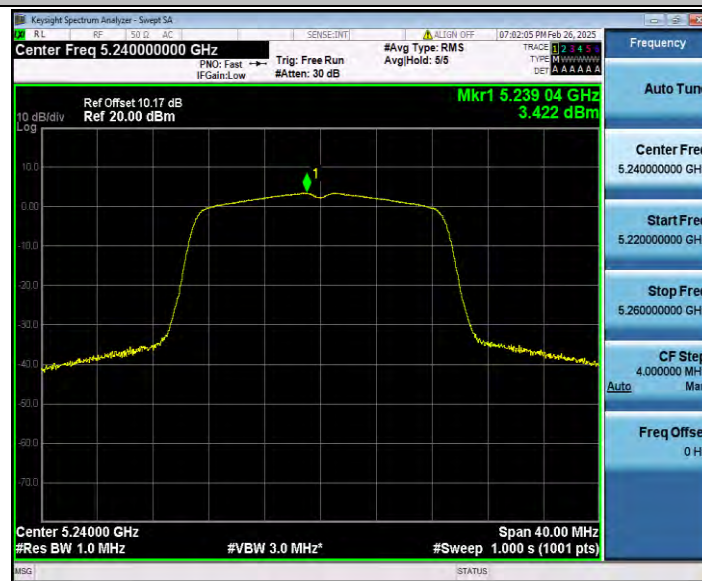
11N20SISO_Ant1_5180



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



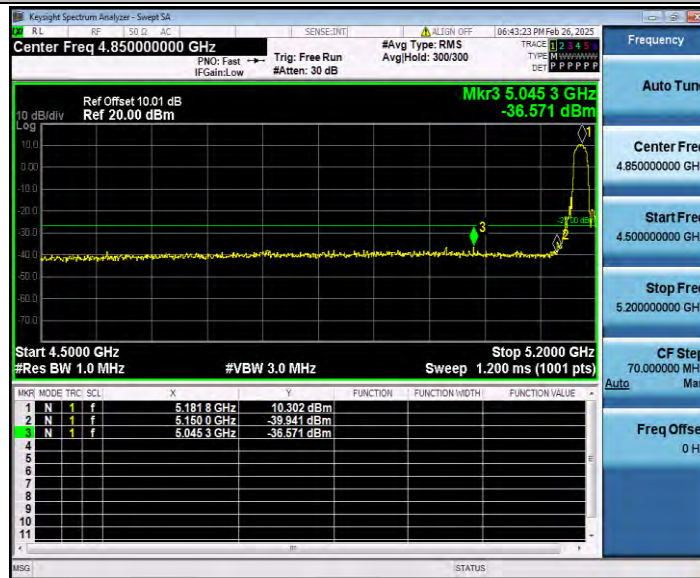
Appendix D.6: Band edge measurements

Test Result B1

TestMode	Antenna	ChName	Freq(MHz)	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-36.57	≤ -27	PASS
		High	5240	-37.71	≤ -27	PASS
11N20SISO	Ant1	Low	5180	-34.15	≤ -27	PASS
		High	5240	-37.04	≤ -27	PASS
11N40SISO	Ant1	Low	5190	-27.18	≤ -27	PASS
		High	5230	-37.01	≤ -27	PASS
11AC20SISO	Ant1	Low	5180	-35.58	≤ -27	PASS
		High	5240	-37.53	≤ -27	PASS
11AC40SISO	Ant1	Low	5190	-28.41	≤ -27	PASS
		High	5230	-37.09	≤ -27	PASS
11AC80SISO	Ant1	Low	5210	-31.63	≤ -27	PASS
		High	5210	-37.41	≤ -27	PASS

Test Graphs B1

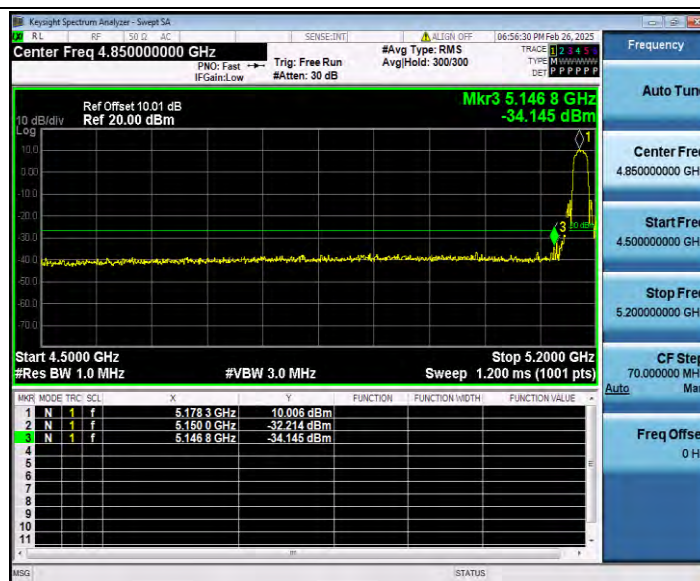
11A_Ant1_Low_5180



11A_Ant1_High_5240



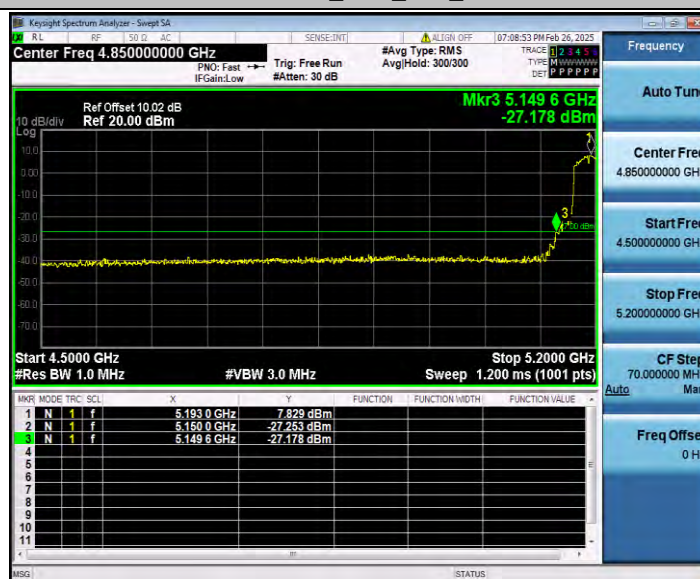
11N20SISO_Ant1_Low_5180



11N20SISO_Ant1_High_5240



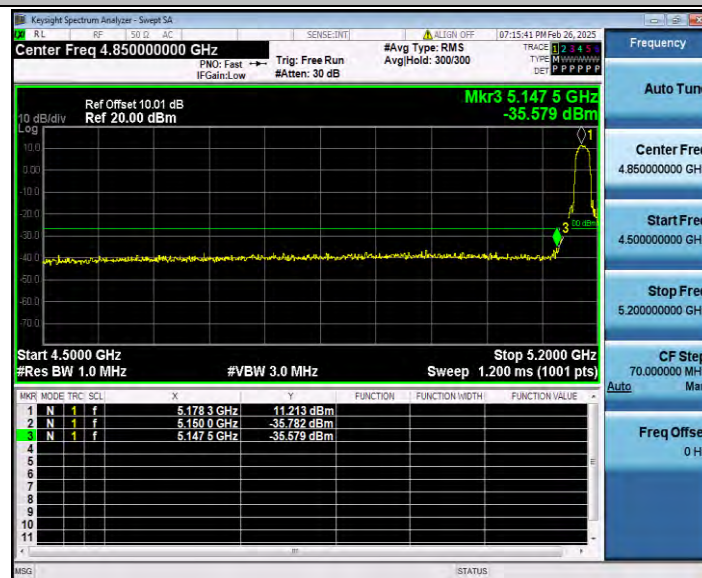
11N40SISO_Ant1_Low_5190



11N40SISO_Ant1_High_5230



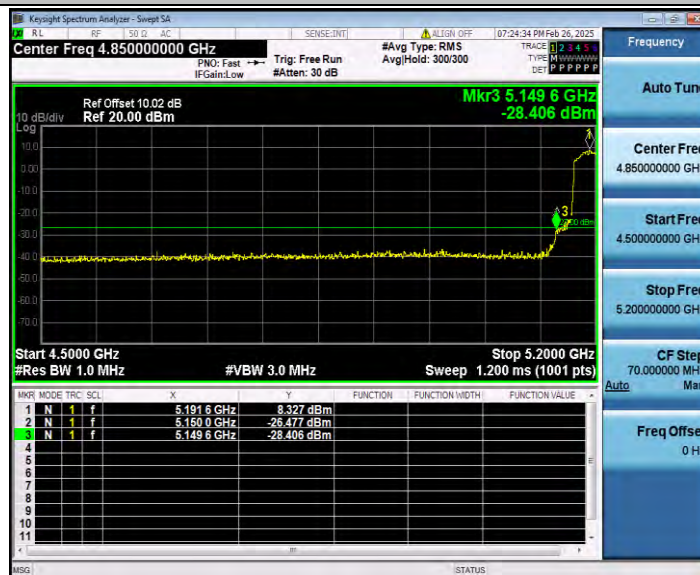
11AC20SISO_Ant1_Low_5180



11AC20SISO_Ant1_High_5240



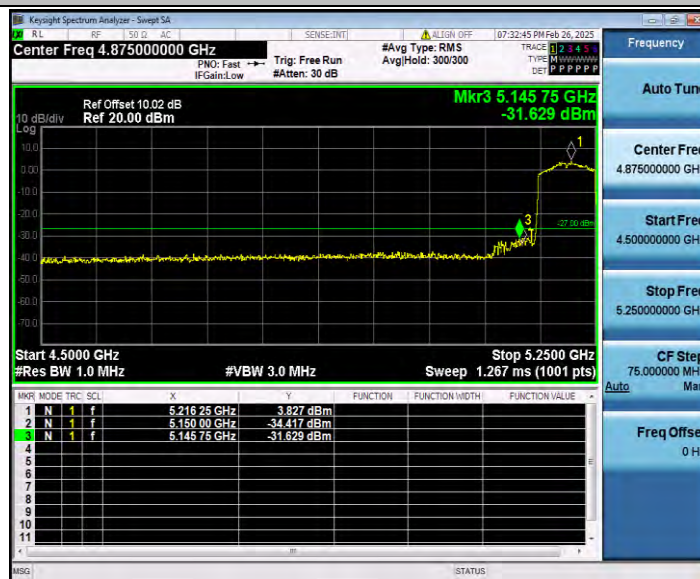
11AC40SISO_Ant1_Low_5190



11AC40SISO_Ant1_High_5230



11AC80SISO_Ant1_Low_5210



11AC80SISO_Ant1_High_5210



Appendix D.7: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	30~5140	5139.15	-44.49	≤-27	PASS
			5360~27000	26056.5	-37.61	≤-27	PASS
		5200	30~5140	5011.57	-45.93	≤-27	PASS
			5360~27000	26531.85	-37.3	≤-27	PASS
		5240	30~5140	4994.54	-46.01	≤-27	PASS
			5360~27000	26958.16	-37.44	≤-27	PASS
11N20SISO	Ant1	5180	30~5140	5131.31	-44.82	≤-27	PASS
			5360~27000	23526.06	-37.11	≤-27	PASS
		5200	30~5140	5079.02	-46.33	≤-27	PASS
			5360~27000	24230.08	-37.09	≤-27	PASS
		5240	30~5140	4895.06	-46.75	≤-27	PASS
			5360~27000	26716.52	-37.37	≤-27	PASS
11N40SISO	Ant1	5190	30~5140	5134.72	-35.15	≤-27	PASS
			5360~27000	26084.63	-36.96	≤-27	PASS
		5230	30~5140	5138.64	-45.15	≤-27	PASS
			5360~27000	24243.06	-37.34	≤-27	PASS
11AC20SISO	Ant1	5180	30~5140	5138.3	-42.45	≤-27	PASS
			5360~27000	24279.85	-37.24	≤-27	PASS
		5200	30~5140	4997.94	-46.28	≤-27	PASS
			5360~27000	24209.16	-36.81	≤-27	PASS
		5240	30~5140	5123.65	-45.5	≤-27	PASS
			5360~27000	25162.76	-37.32	≤-27	PASS
11AC40SISO	Ant1	5190	30~5140	5138.81	-40.61	≤-27	PASS
			5360~27000	26811.01	-37.09	≤-27	PASS
		5230	30~5140	3310.45	-46.27	≤-27	PASS
			5360~27000	26755.47	-37.42	≤-27	PASS
11AC80SISO	Ant1	5210	30~5140	5124.5	-29.36	≤-27	PASS
			5360~27000	24279.13	-37	≤-27	PASS

Test Graphs

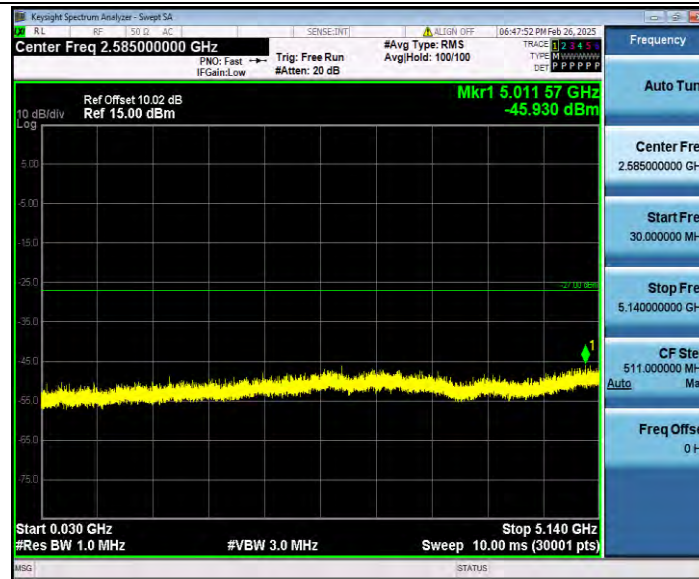
11A_Ant1_5180_30~5140



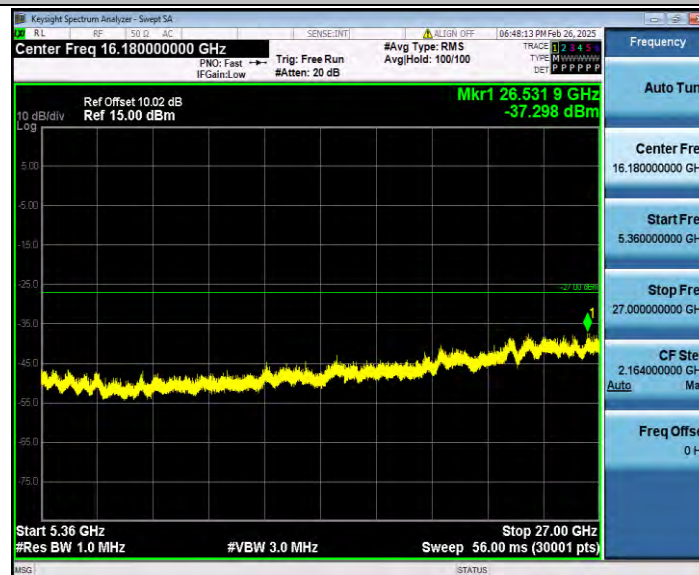
11A_Ant1_5180_5360~27000



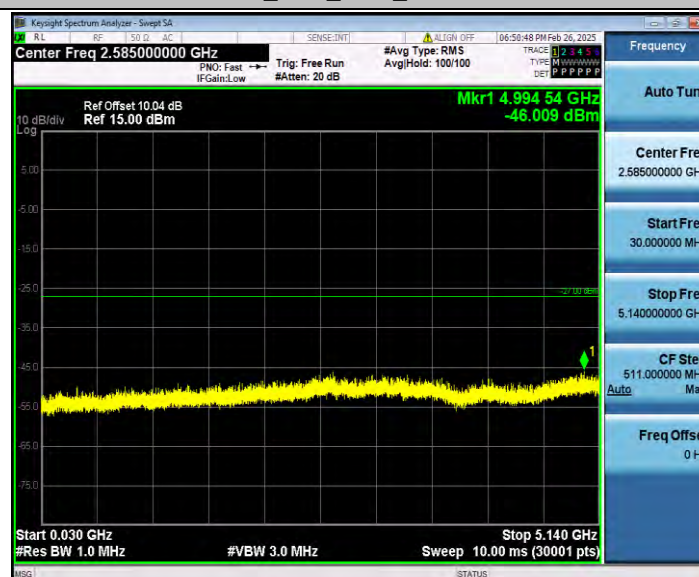
11A_Ant1_5200_30~5140



11A_Ant1_5200_5360~27000



11A_Ant1_5240_30~5140



11A_Ant1_5240_5360~27000



11N20SISO_Ant1_5180_30~5140



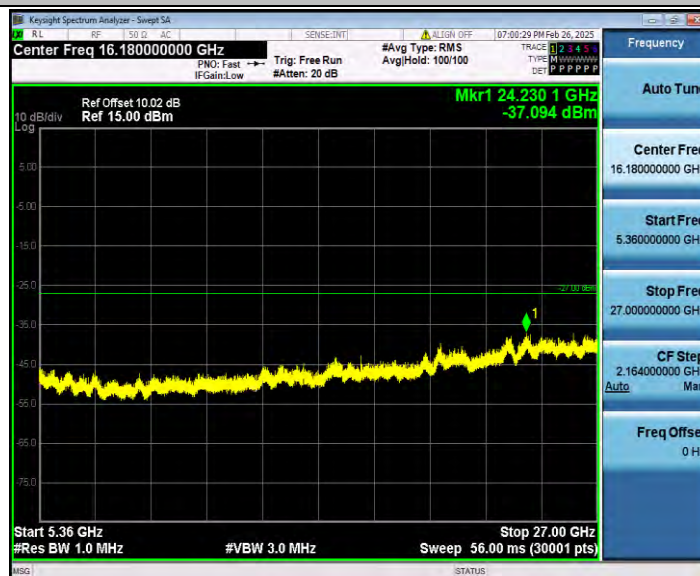
11N20SISO_Ant1_5180_5360~27000



11N20SISO_Ant1_5200_30~5140



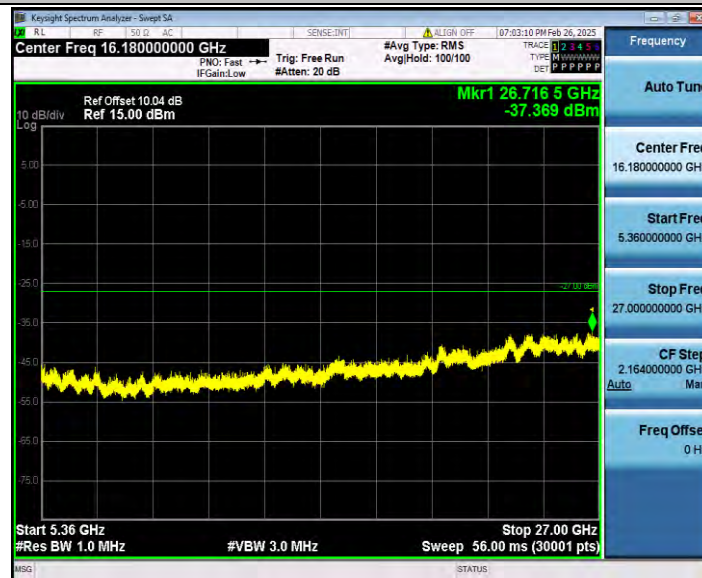
11N20SISO_Ant1_5200_5360~27000



11N20SISO_Ant1_5240_30~5140



11N20SISO_Ant1_5240_5360~27000



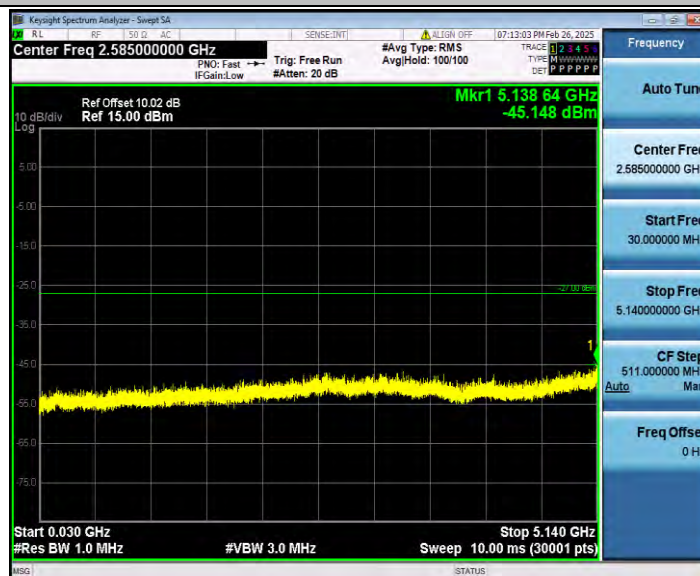
11N40SISO_Ant1_5190_30~5140

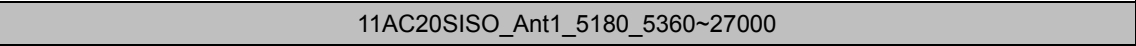
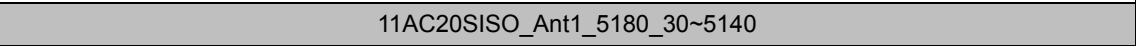


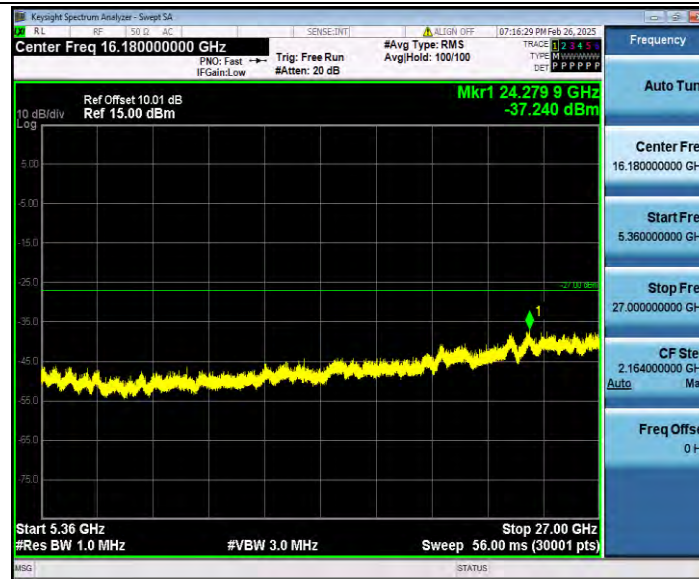
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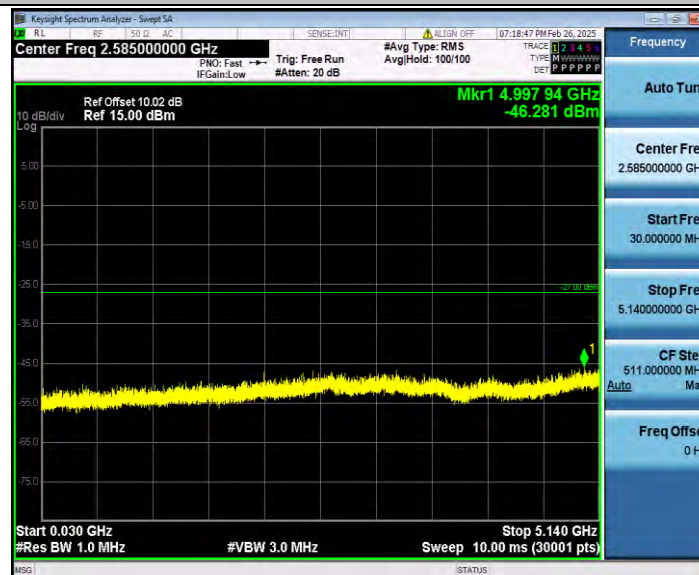
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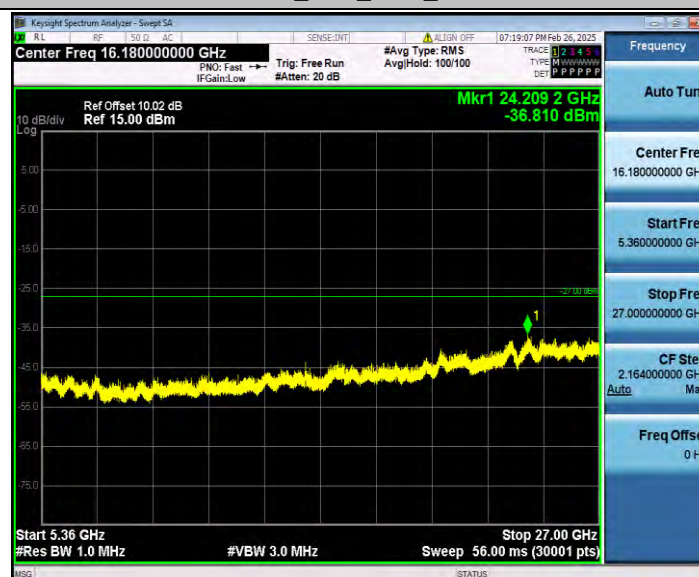




11AC20SISO_Ant1_5200_30~5140



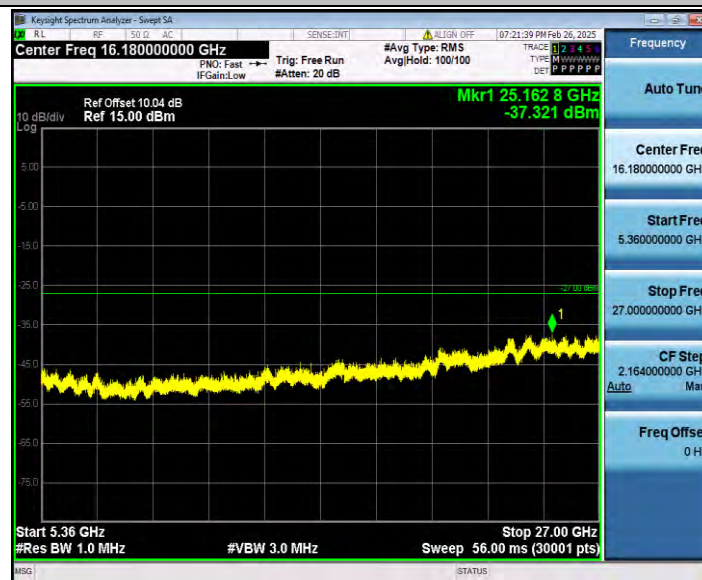
11AC20SISO_Ant1_5200_5360~27000



11AC20SISO_Ant1_5240_30~5140



11AC20SISO_Ant1_5240_5360~27000



11AC40SISO_Ant1_5190_30~5140



11AC40SISO_Ant1_5190_5360~27000



11AC40SISO_Ant1_5230_30~5140

