

Case No. : GTS20230111005-1-13	
Ambient Condition: 25 °C, 45 %RH, Atmos100.1Kpa,	
Test Date: 2023.2.17	Test Engineer: Jenny zeng

Appendix D.1: Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	18.520	5170.680	5189.200	---	---
		5200	18.640	5190.600	5209.240	---	---
		5240	18.560	5230.640	5249.200	---	---
11N20SISO	Ant1	5180	40.000	5160.000	5200.000	---	---
		5200	19.480	5190.320	5209.800	---	---
		5240	19.520	5230.280	5249.800	---	---
11N40SISO	Ant1	5190	40.800	5169.760	5210.560	---	---
		5230	41.120	5209.600	5250.720	---	---
11AC20SISO	Ant1	5180	19.480	5170.280	5189.760	---	---
		5200	19.480	5190.320	5209.800	---	---
		5240	19.480	5230.280	5249.760	---	---
11AC40SISO	Ant1	5190	41.120	5169.600	5210.720	---	---
		5230	41.200	5209.520	5250.720	---	---
11AC80SISO	Ant1	5210	80.960	5169.520	5250.480	---	---

Test Graphs

11A_Ant1_5180



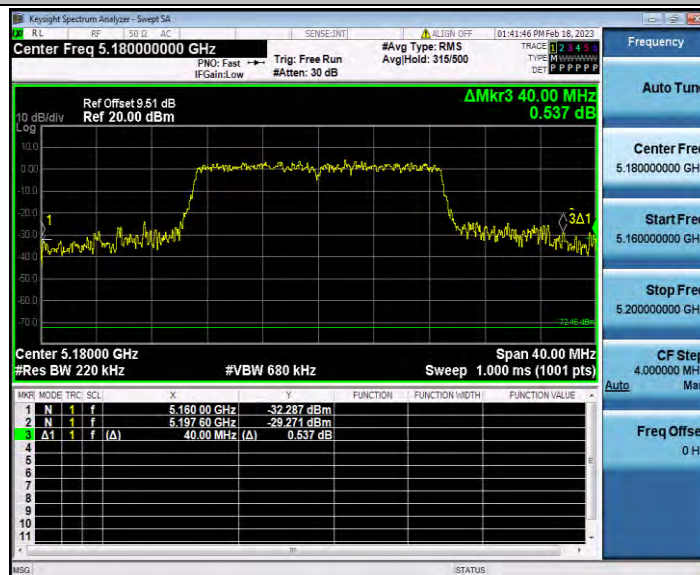
11A_Ant1_5200



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



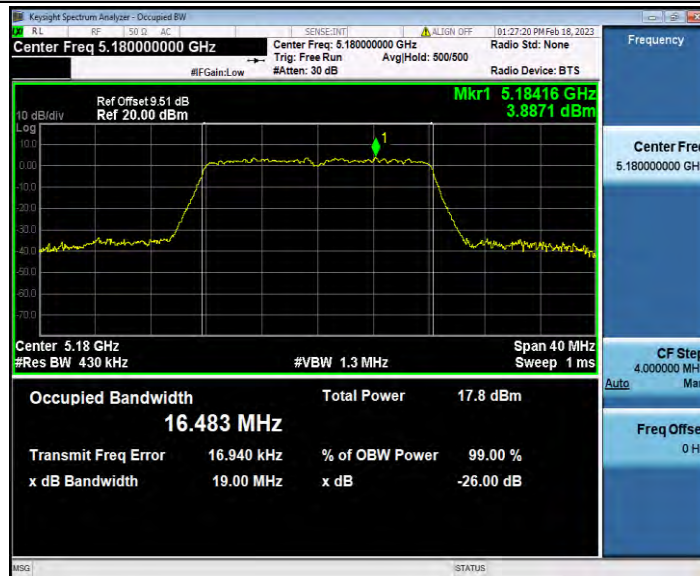
Appendix D.2: Occupied channel bandwidth

Test Result

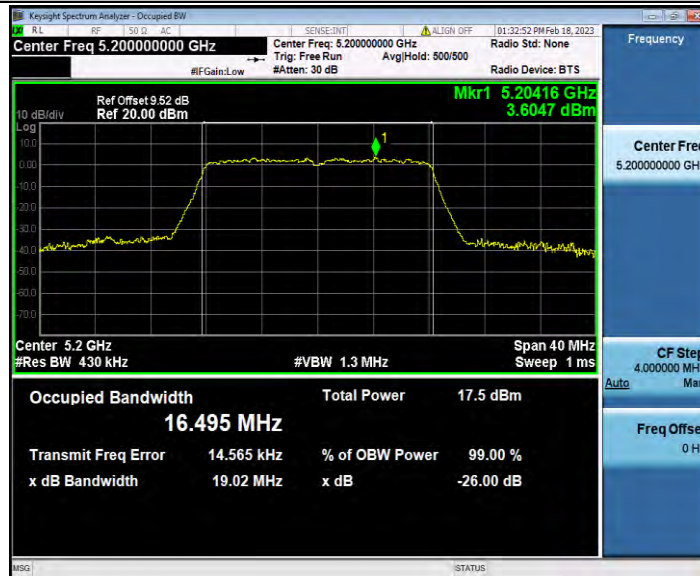
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.483	5171.775	5188.258	---	---
		5200	16.495	5191.767	5208.262	---	---
		5240	16.482	5231.764	5248.246	---	---
11N20SISO	Ant1	5180	17.614	5171.203	5188.817	---	---
		5200	17.615	5191.233	5208.848	---	---
		5240	17.621	5231.235	5248.856	---	---
11N40SISO	Ant1	5190	36.317	5171.974	5208.291	---	---
		5230	36.307	5211.931	5248.238	---	---
11AC20SISO	Ant1	5180	17.629	5171.202	5188.831	---	---
		5200	17.617	5191.239	5208.856	---	---
		5240	17.619	5231.225	5248.844	---	---
11AC40SISO	Ant1	5190	36.287	5171.963	5208.250	---	---
		5230	36.244	5211.972	5248.216	---	---
11AC80SISO	Ant1	5210	74.409	5172.944	5247.353	---	---

Test Graphs

11A_Ant1_5180



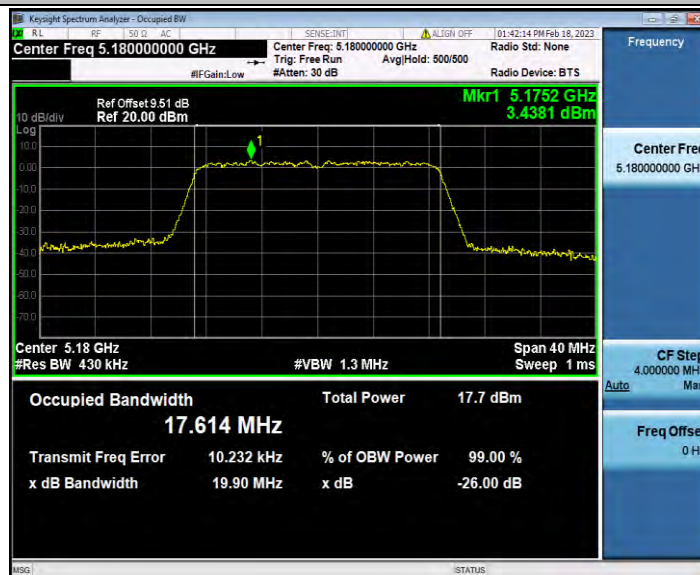
11A_Ant1_5200



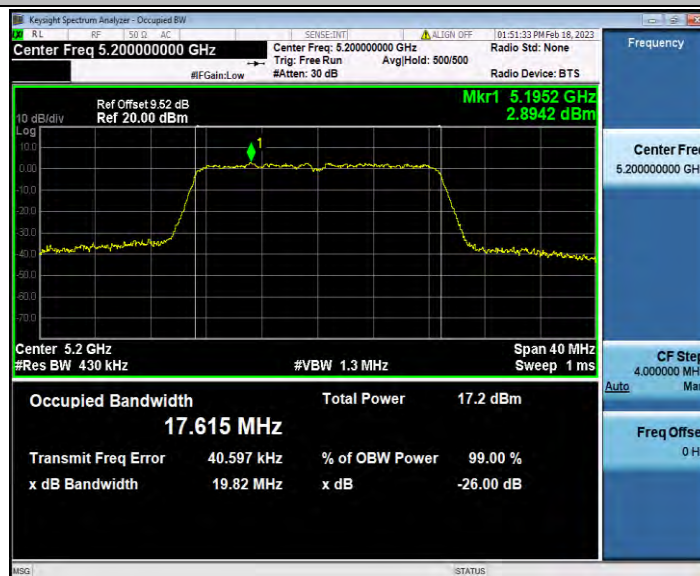
11A_Ant1_5240



11N20SISO_Ant1_5180



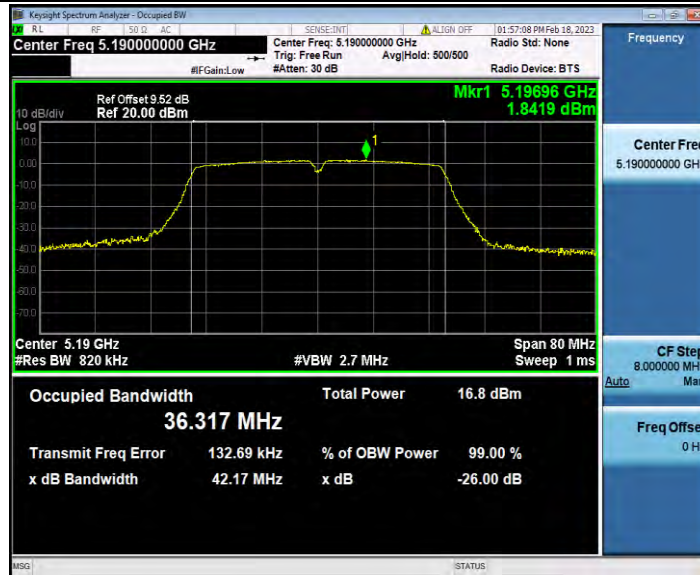
11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



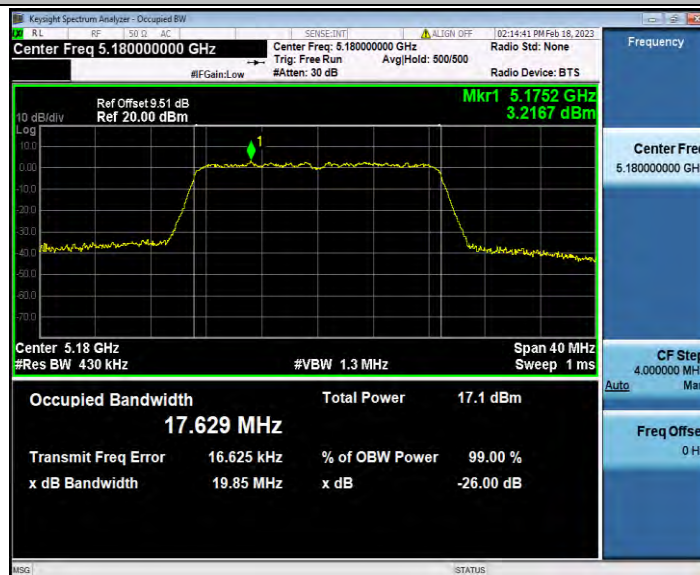
11N40SISO_Ant1_5190



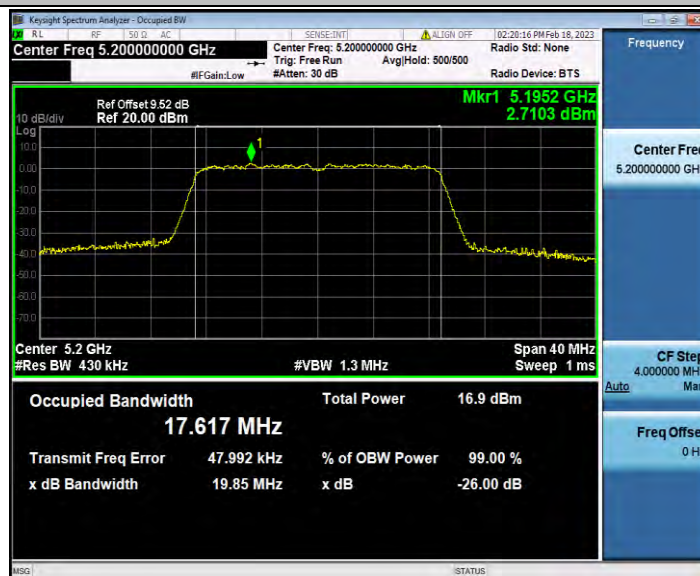
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



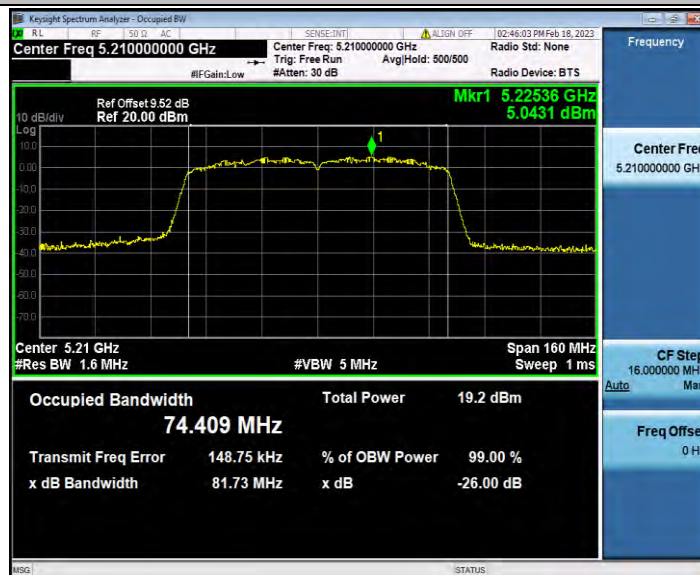
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



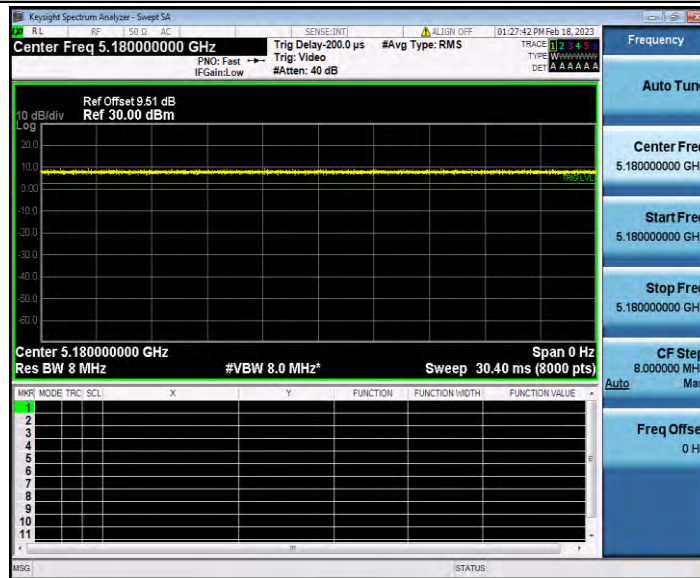
Appendix D.3: Duty Cycle

Test Result

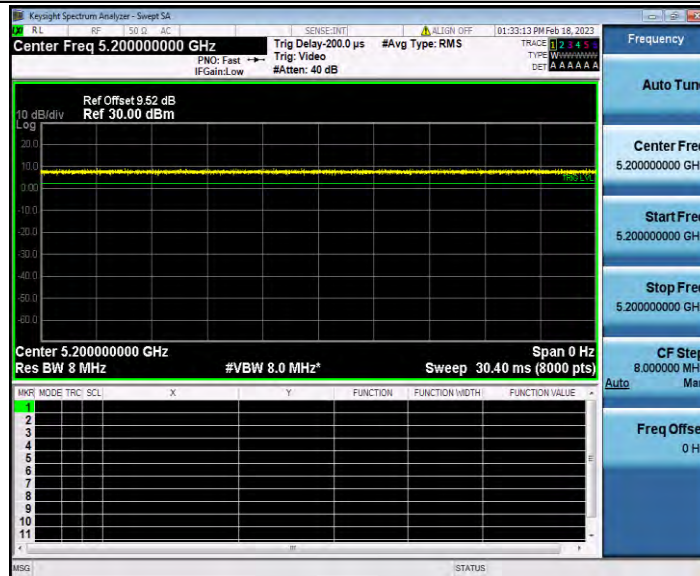
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	30.00	30.00	100.00
		5200	30.00	30.00	100.00
		5240	30.00	30.00	100.00
11N20SISO	Ant1	5180	30.00	30.00	100.00
		5200	30.00	30.00	100.00
		5240	30.00	30.00	100.00
11N40SISO	Ant1	5190	30.00	30.00	100.00
		5230	30.00	30.00	100.00
11AC20SISO	Ant1	5180	30.00	30.00	100.00
		5200	30.00	30.00	100.00
		5240	30.00	30.00	100.00
11AC40SISO	Ant1	5190	30.00	30.00	100.00
		5230	30.00	30.00	100.00
11AC80SISO	Ant1	5210	30.00	30.00	100.00

Test Graphs

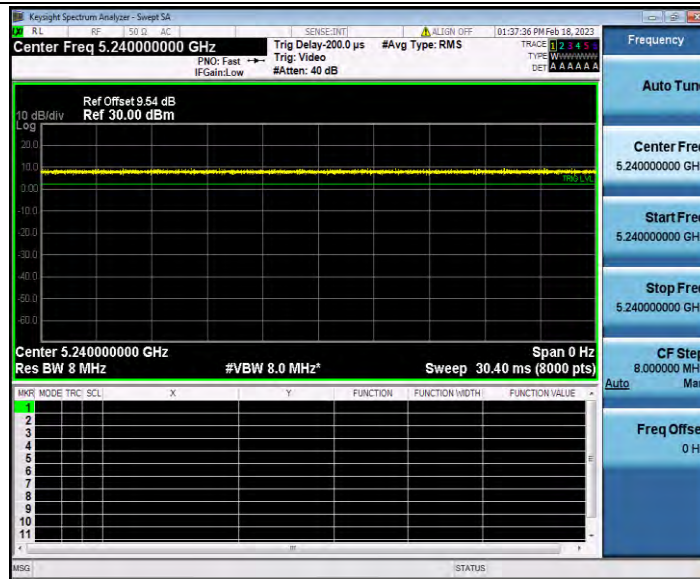
11A_Ant1_5180



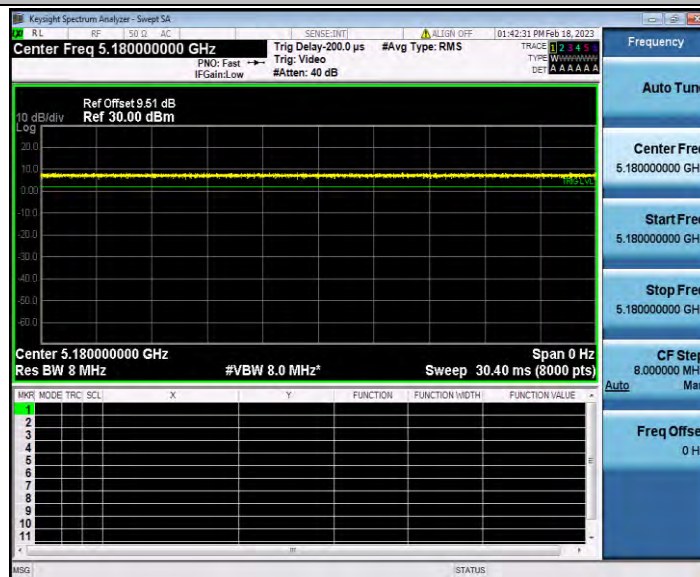
11A_Ant1_5200



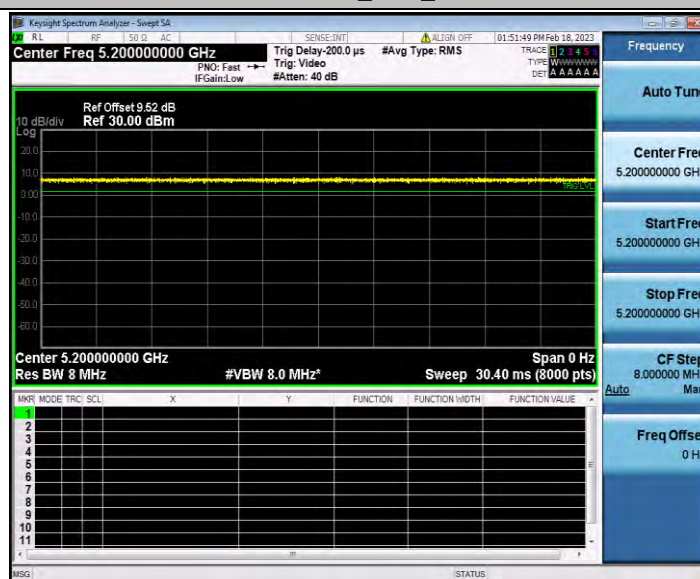
11A_Ant1_5240



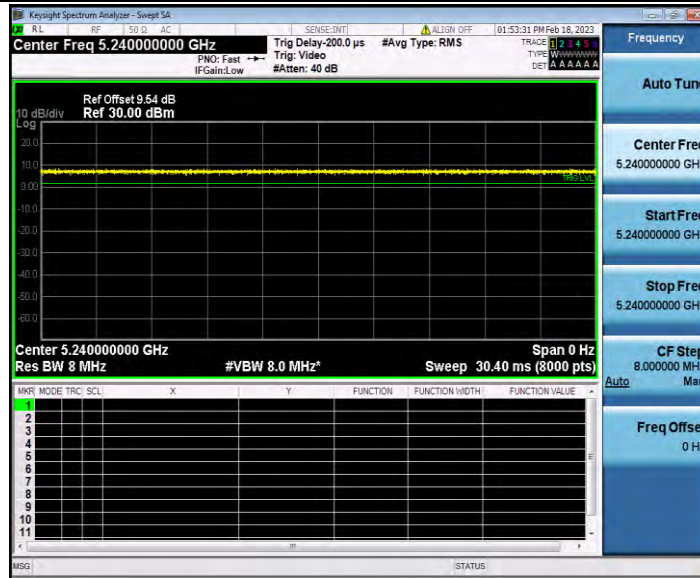
11N20SISO_Ant1_5180



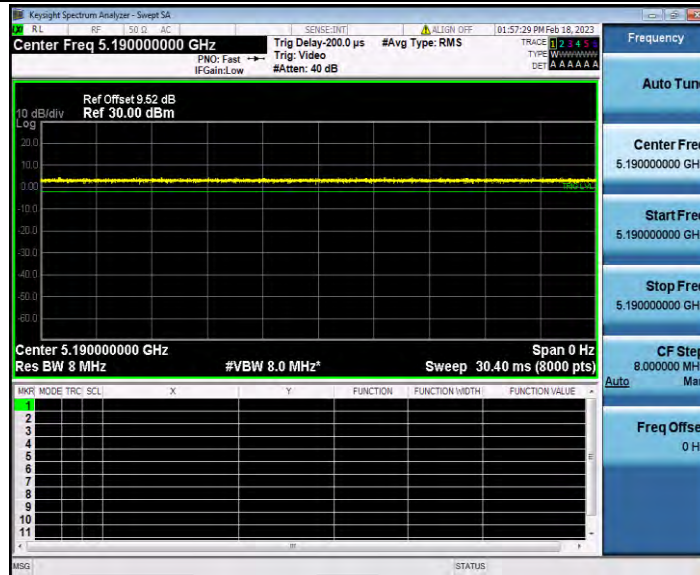
11N20SISO_Ant1_5200



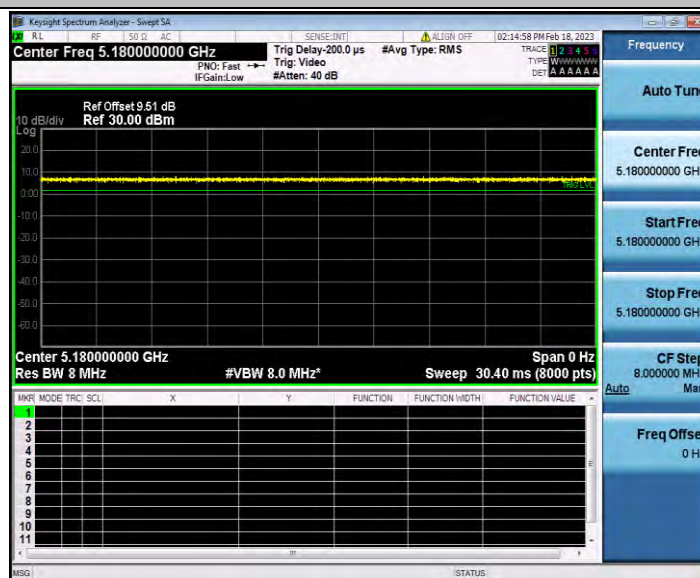
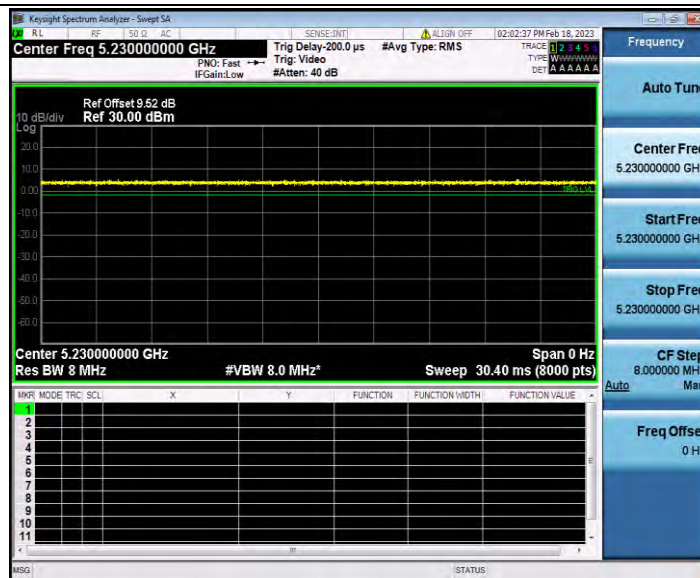
11N20SISO_Ant1_5240



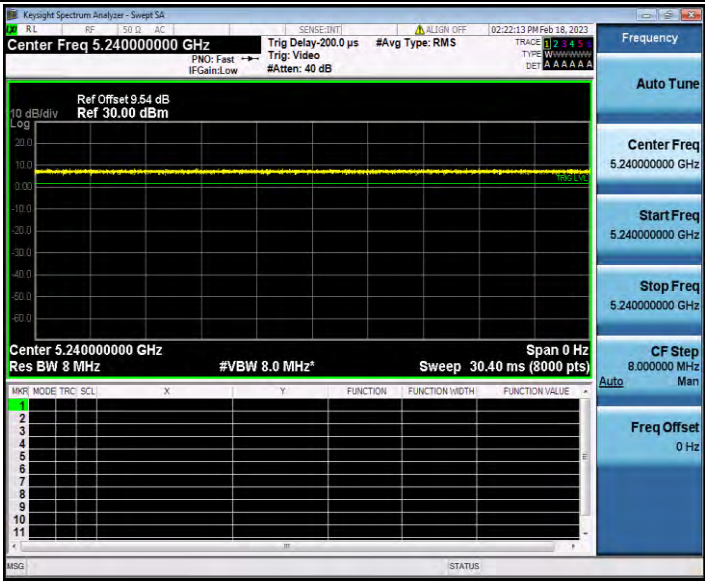
11N40SISO_Ant1_5190



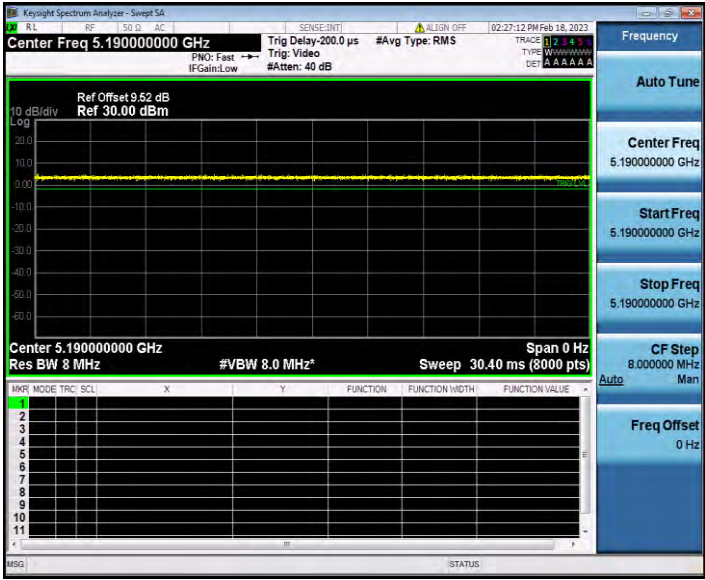
11N40SISO_Ant1_5230



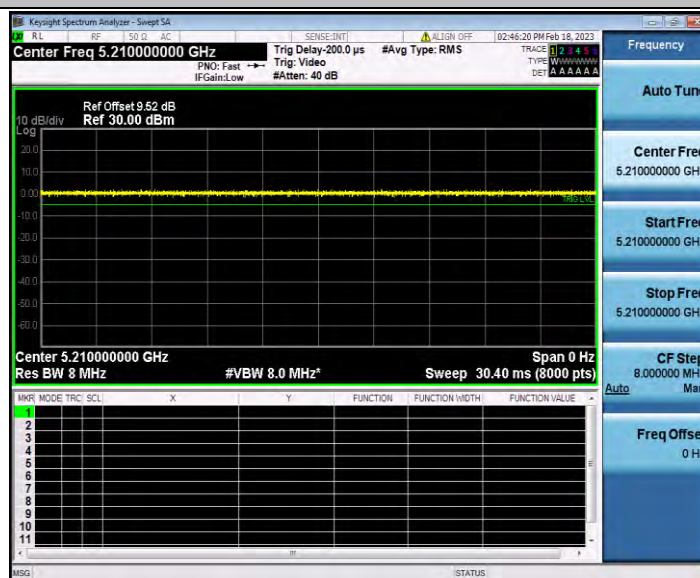
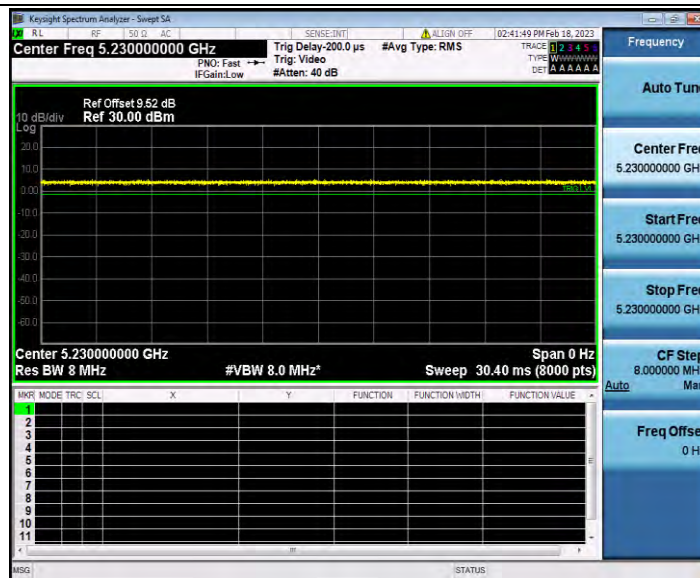
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



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	Ant1	5180	10.96	100.00	0.00	10.96	≤23.98	PASS
		5200	10.93	100.00	0.00	10.93	≤23.98	PASS
		5240	10.97	100.00	0.00	10.97	≤23.98	PASS
11N20SISO	Ant1	5180	10.68	100.00	0.00	10.68	≤23.98	PASS
		5200	10.35	100.00	0.00	10.35	≤23.98	PASS
		5240	10.47	100.00	0.00	10.47	≤23.98	PASS
11N40SISO	Ant1	5190	9.46	100.00	0.00	9.46	≤23.98	PASS
		5230	10.15	100.00	0.00	10.15	≤23.98	PASS
11AC20SISO	Ant1	5180	10.22	100.00	0.00	10.22	≤23.98	PASS
		5200	10.15	100.00	0.00	10.15	≤23.98	PASS
		5240	10.55	100.00	0.00	10.55	≤23.98	PASS
11AC40SISO	Ant1	5190	9.83	100.00	0.00	9.83	≤23.98	PASS
		5230	10.23	100.00	0.00	10.23	≤23.98	PASS
11AC80SISO	Ant1	5210	9.97	100.00	0.00	9.97	≤23.98	PASS

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

Appendix D.5: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-1.2	≤11.00	PASS
		5200	-0.99	≤11.00	PASS
		5240	-0.7	≤11.00	PASS
11N20SISO	Ant1	5180	-1.47	≤11.00	PASS
		5200	-1.72	≤11.00	PASS
		5240	-1.51	≤11.00	PASS
11N40SISO	Ant1	5190	-5.07	≤11.00	PASS
		5230	-4.32	≤11.00	PASS
11AC20SISO	Ant1	5180	-1.91	≤11.00	PASS
		5200	-1.88	≤11.00	PASS
		5240	-1.41	≤11.00	PASS
11AC40SISO	Ant1	5190	-4.7	≤11.00	PASS
		5230	-4.15	≤11.00	PASS
11AC80SISO	Ant1	5210	-7.37	≤11.00	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

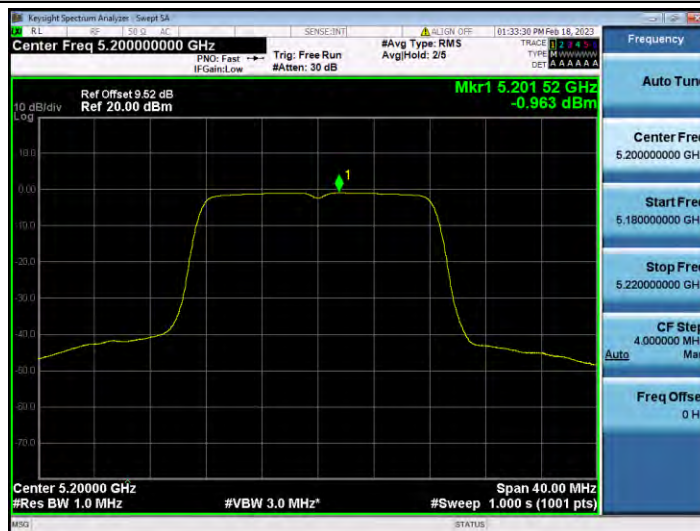
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240



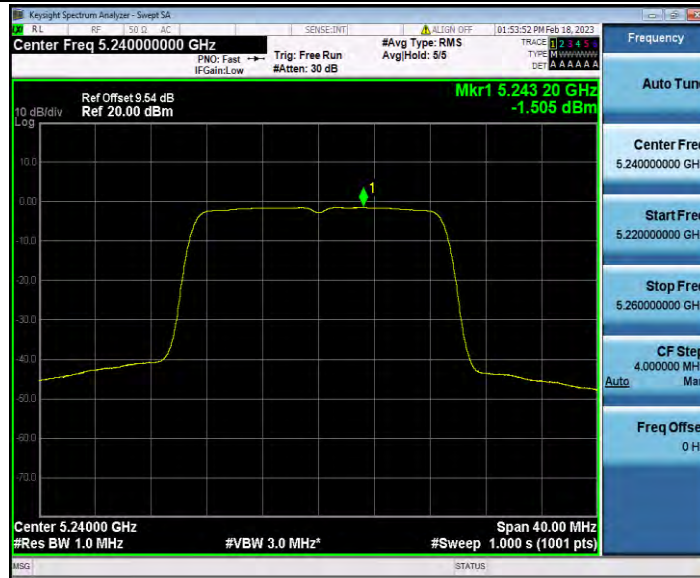
11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



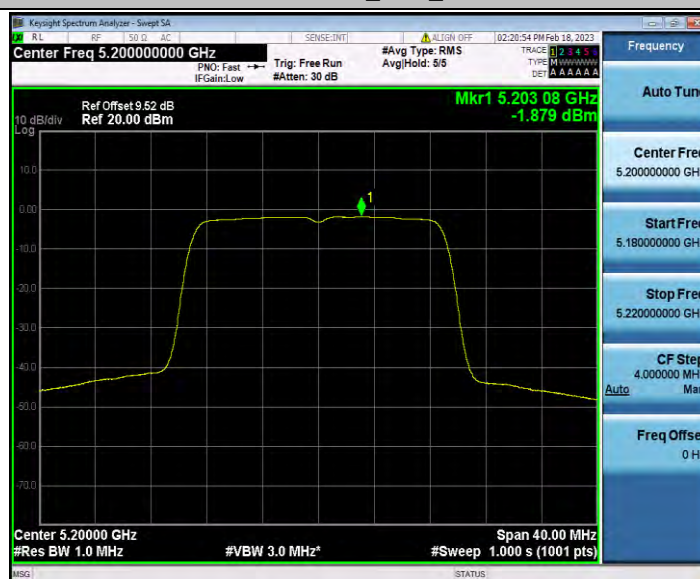
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



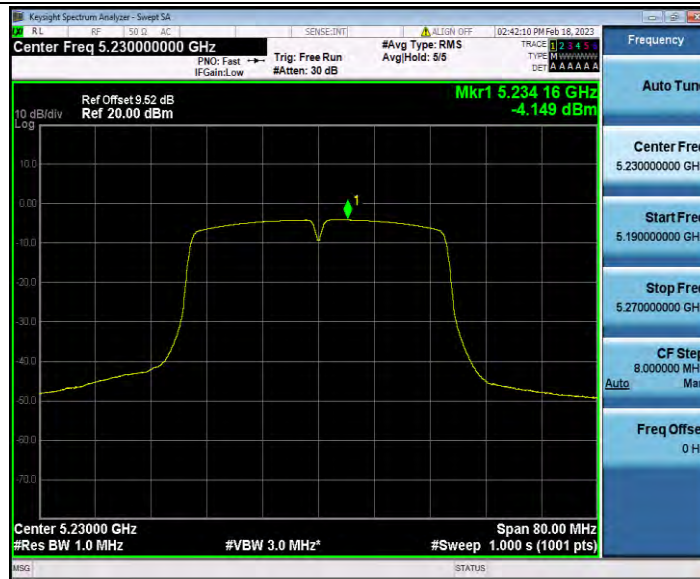
11AC20SISO_Ant1_5240



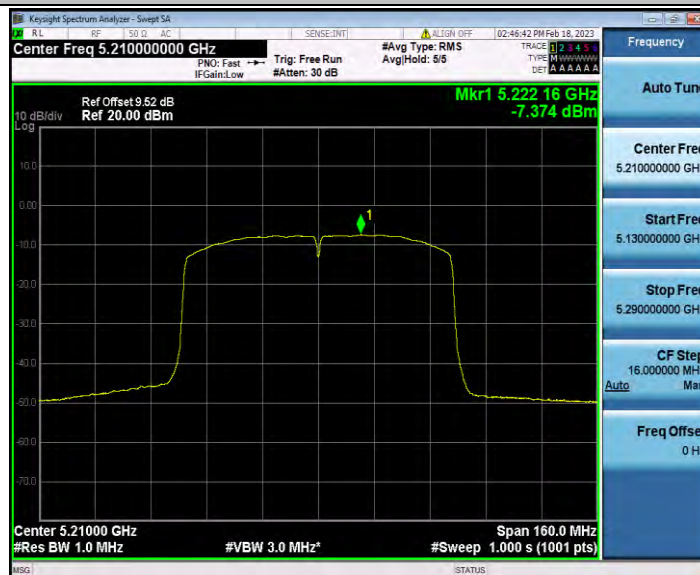
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



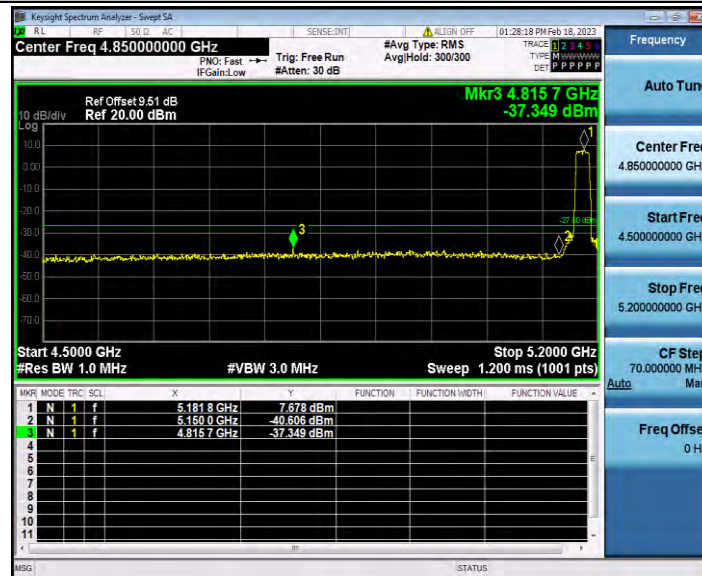
Appendix D.7: Band edge measurements

Test Result B1

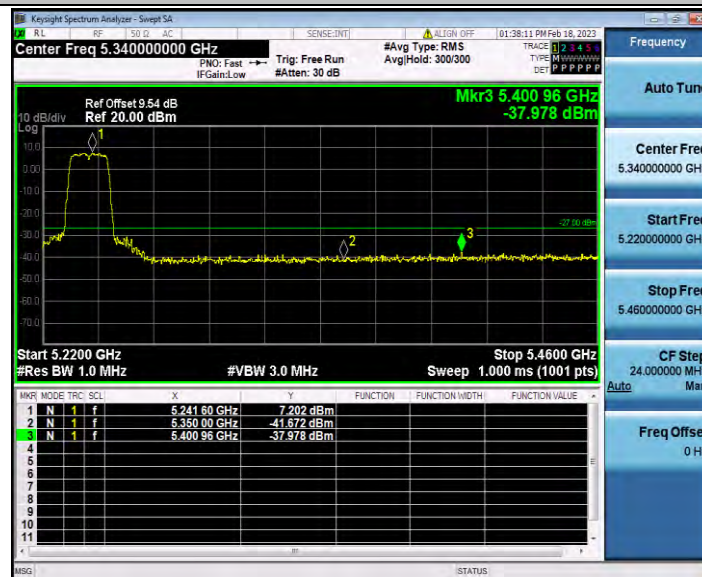
TestMode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-37.35	≤-27	PASS
		High	5240	-37.98	≤-27	PASS
11N20SISO	Ant1	Low	5180	-37.47	≤-27	PASS
		High	5240	-37.34	≤-27	PASS
11N40SISO	Ant1	Low	5190	-36.94	≤-27	PASS
		High	5230	-37.82	≤-27	PASS
11AC20SISO	Ant1	Low	5180	-37	≤-27	PASS
		High	5240	-38.5	≤-27	PASS
11AC40SISO	Ant1	Low	5190	-37.85	≤-27	PASS
		High	5230	-38.05	≤-27	PASS
11AC80SISO	Ant1	Low	5210	-35.94	≤-27	PASS
		High	5210	-38.24	≤-27	PASS

Test Graphs B1

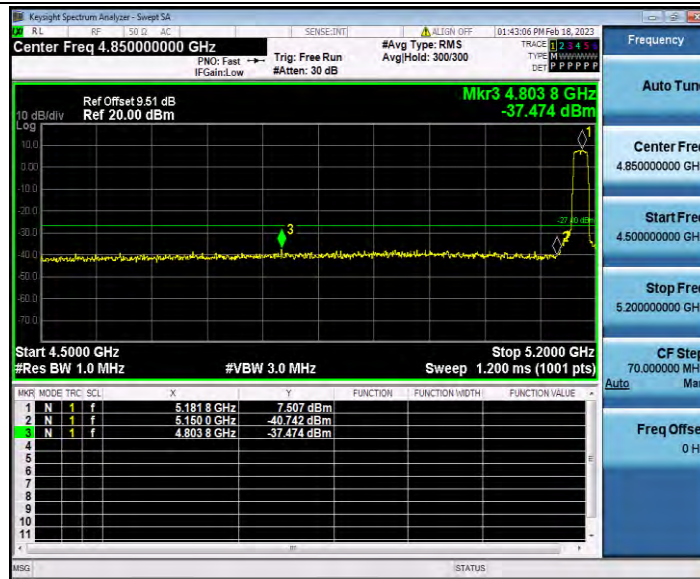
11A_Ant1_Low_5180



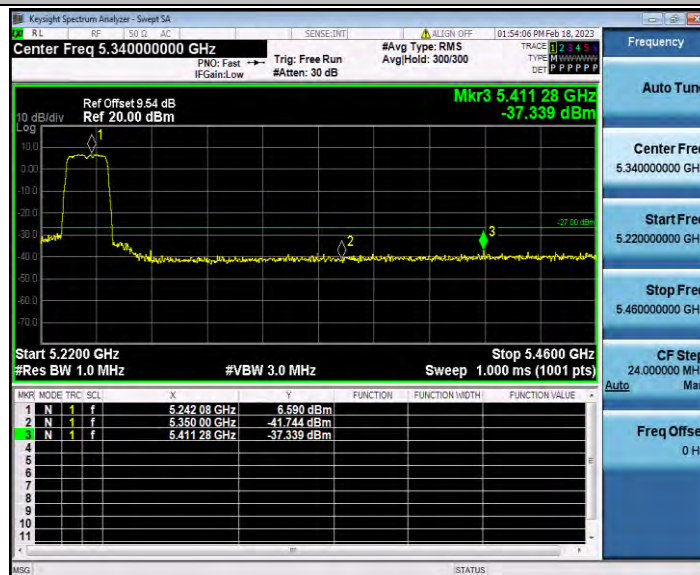
11A_Ant1_High_5240



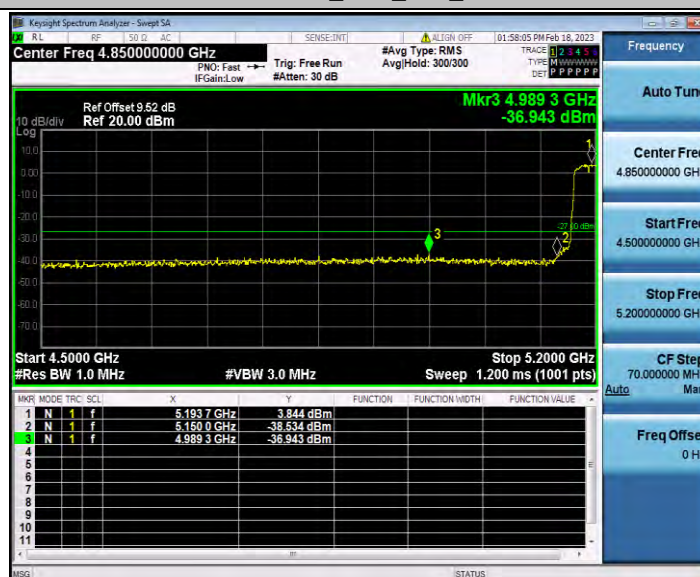
11N20SISO_Ant1_Low_5180



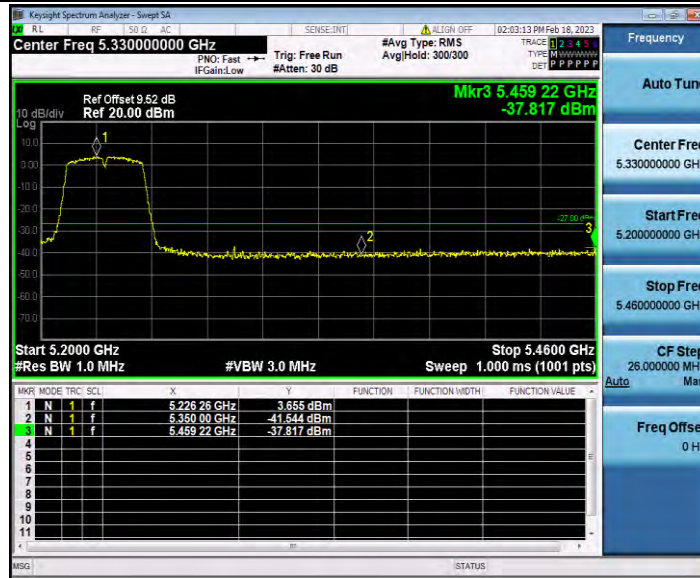
11N20SISO_Ant1_High_5240



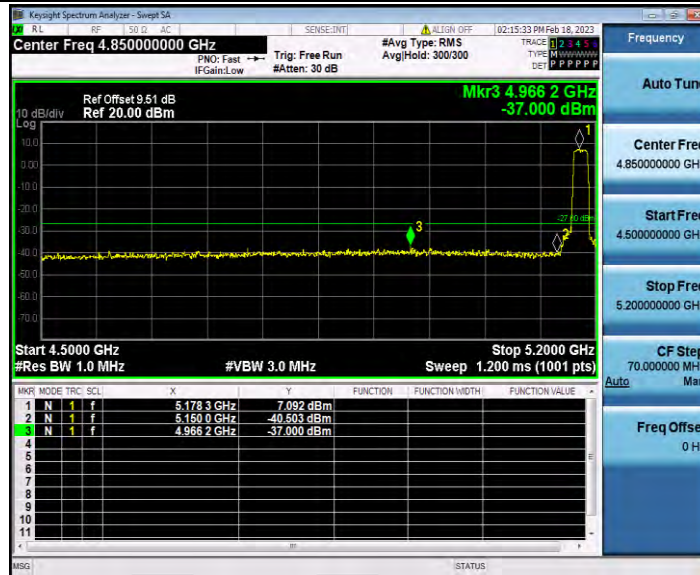
11N40SISO_Ant1_Low_5190



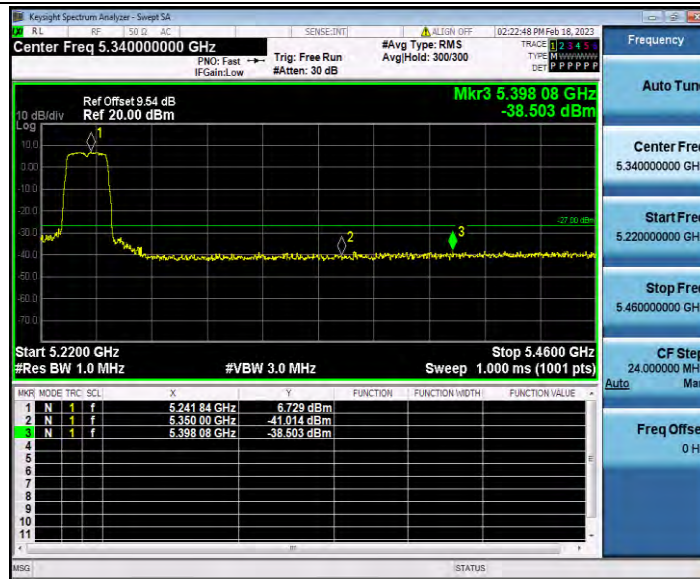
11N40SISO_Ant1_High_5230



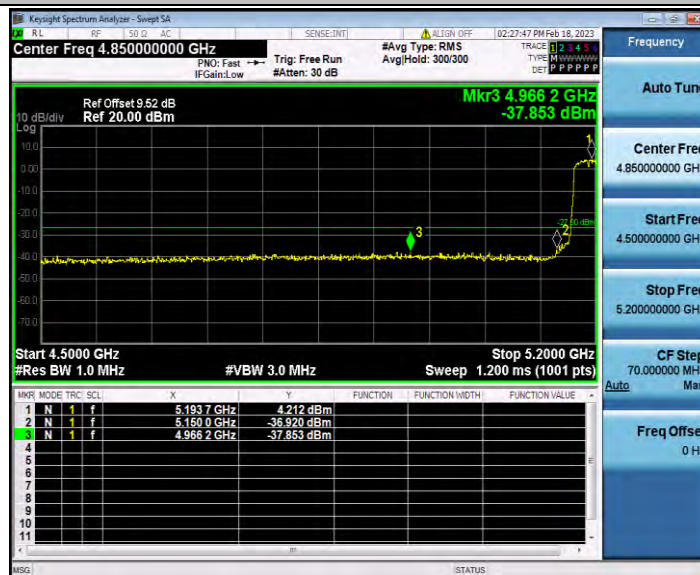
11AC20SISO_Ant1_Low_5180



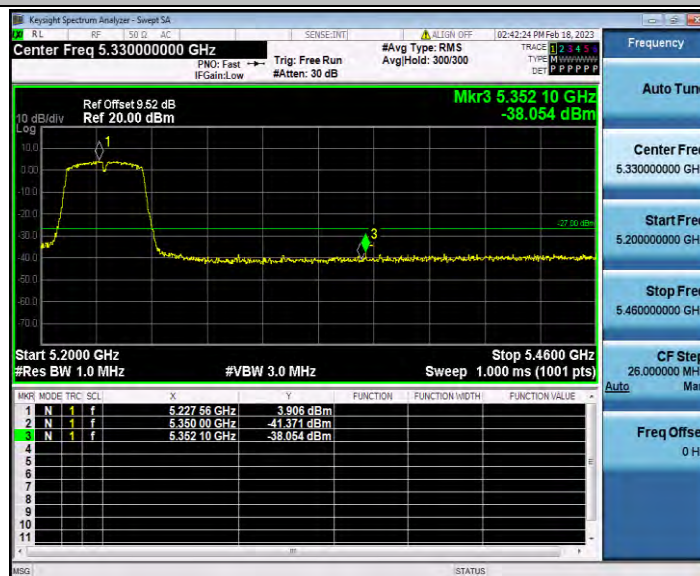
11AC20SISO_Ant1_High_5240



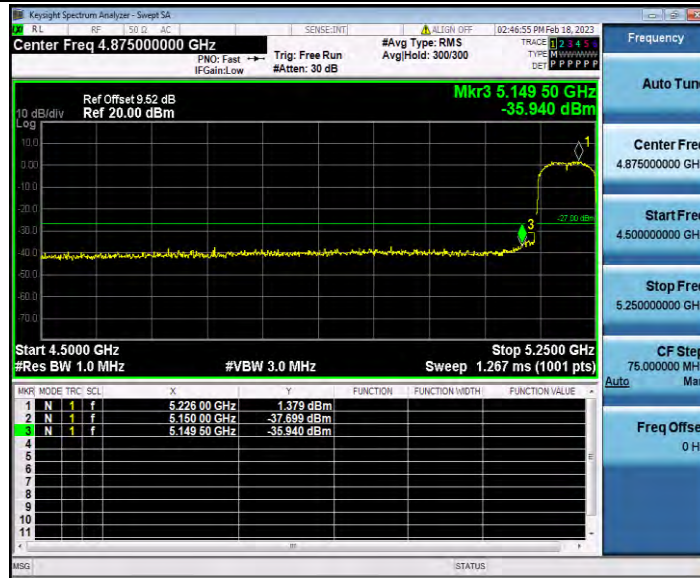
11AC40SISO_Ant1_Low_5190



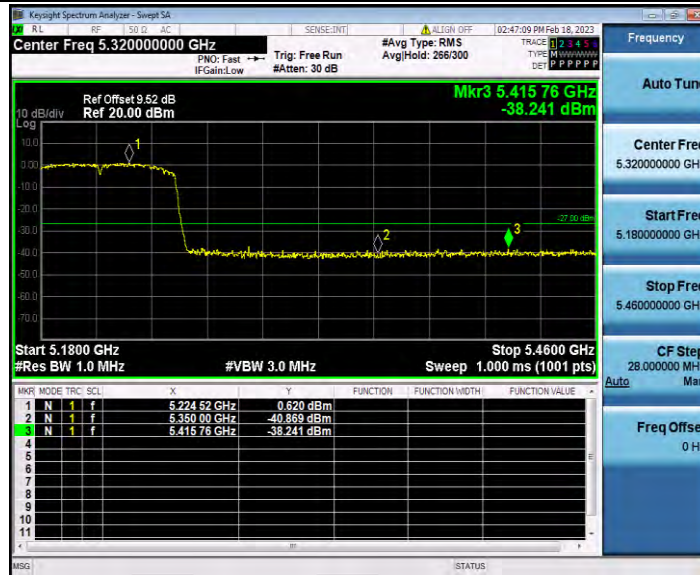
11AC40SISO_Ant1_High_5230



11AC80SISO_Ant1_Low_5210



11AC80SISO_Ant1_High_5210



Appendix D.7: Conducted Spurious Emission

Test Result

TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	30~5140	4951.1	-45.48	≤-27	PASS
			5360~40000	24231.52	-38.44	≤-27	PASS
		5200	30~5140	4793.54	-47.31	≤-27	PASS
			5360~40000	24758.1	-37.79	≤-27	PASS
		5240	30~5140	4852.14	-46.86	≤-27	PASS
			5360~40000	23521.01	-37.9	≤-27	PASS
11N20SISO	Ant1	5180	30~5140	5026.9	-46.93	≤-27	PASS
			5360~40000	26777.11	-37.87	≤-27	PASS
		5200	30~5140	1761.61	-35.74	≤-27	PASS
			5360~40000	24241.62	-37.87	≤-27	PASS
		5240	30~5140	2672.72	-47.22	≤-27	PASS
			5360~40000	24207.72	-38.34	≤-27	PASS
11N40SISO	Ant1	5190	30~5140	1746.28	-46.8	≤-27	PASS
			5360~40000	26050	-37.98	≤-27	PASS
		5230	30~5140	3170.78	-46.84	≤-27	PASS
			5360~40000	25703.04	-37.97	≤-27	PASS
11AC20SISO	Ant1	5180	30~5140	4915.16	-47.04	≤-27	PASS
			5360~40000	24258.21	-38.3	≤-27	PASS
		5200	30~5140	3176.74	-47.44	≤-27	PASS
			5360~40000	23497.93	-37.55	≤-27	PASS
		5240	30~5140	1747.98	-40.55	≤-27	PASS
			5360~40000	24176.7	-38.23	≤-27	PASS
11AC40SISO	Ant1	5190	30~5140	3255.94	-47.78	≤-27	PASS
			5360~40000	26517.43	-38.15	≤-27	PASS
		5230	30~5140	1746.45	-44.54	≤-27	PASS
			5360~40000	24817.97	-37.82	≤-27	PASS
11AC80SISO	Ant1	5210	30~5140	5133.02	-43.79	≤-27	PASS
			5360~40000	25038.69	-37.89	≤-27	PASS

Test Graphs

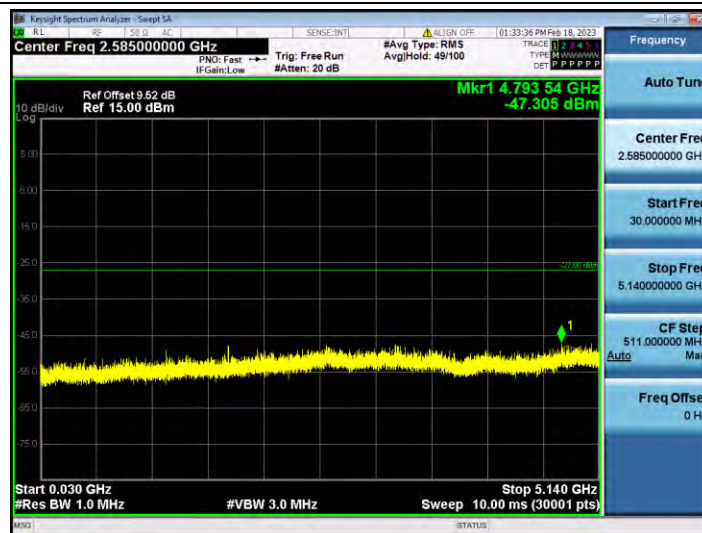
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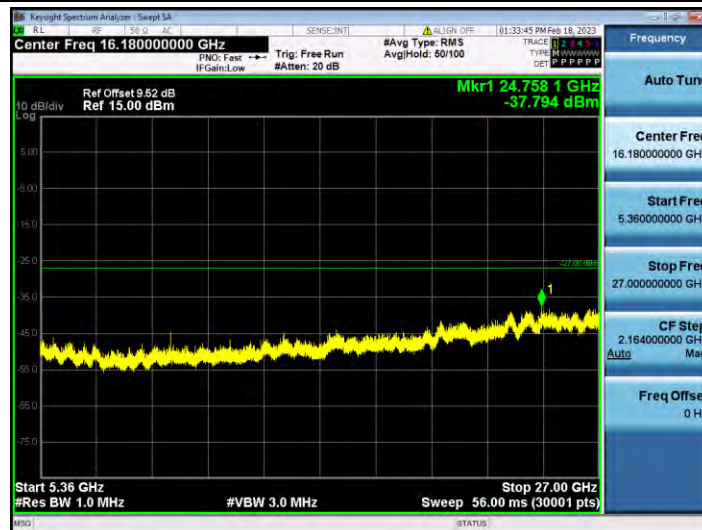
11A_Ant1_5180_5360~40000



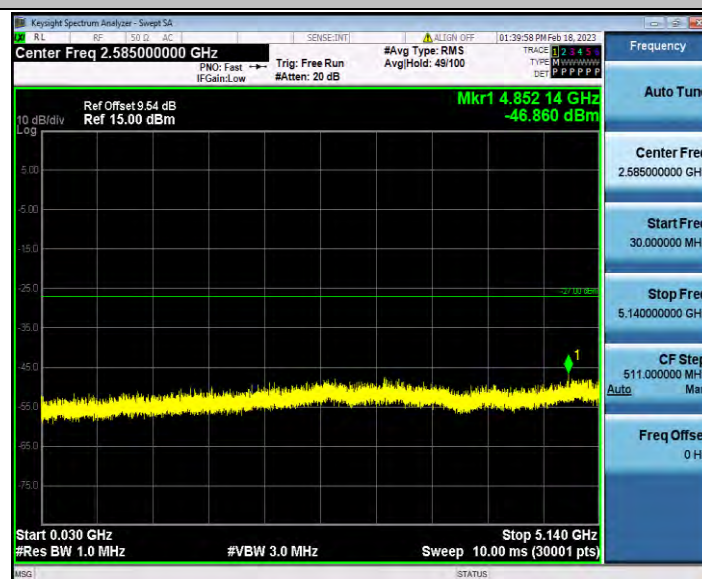
11A_Ant1_5200_30~5140



11A_Ant1_5200_5360~40000



11A_Ant1_5240_30~5140



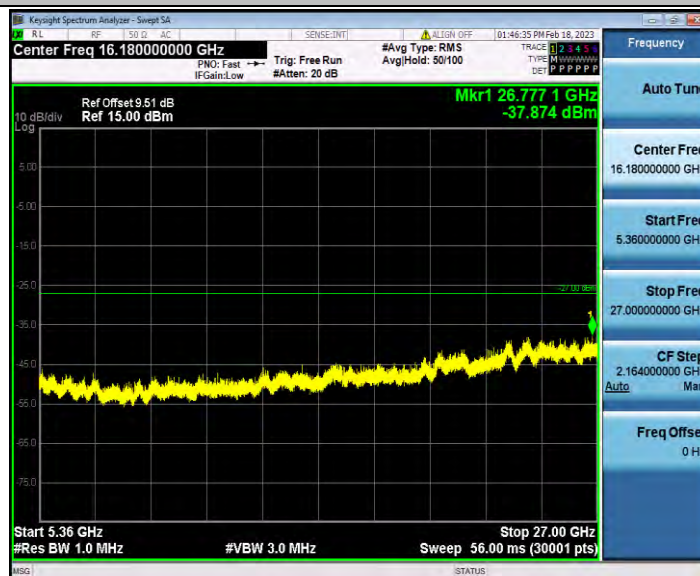
11A_Ant1_5240_5360~40000



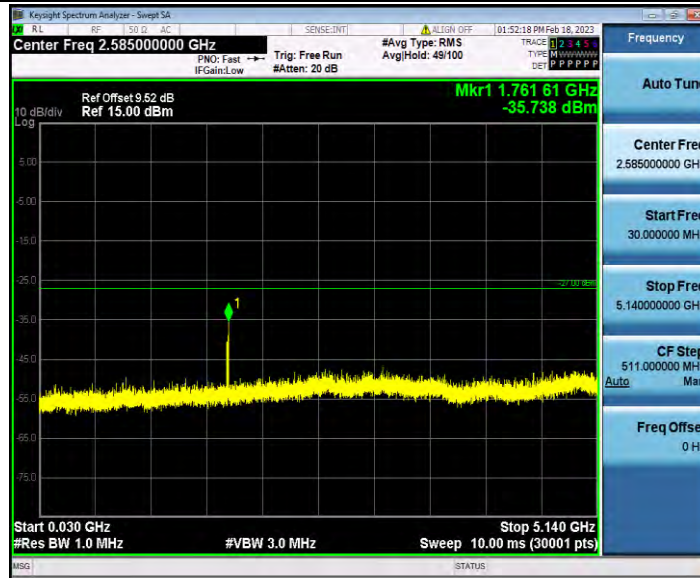
11N20SISO_Ant1_5180_30~5140



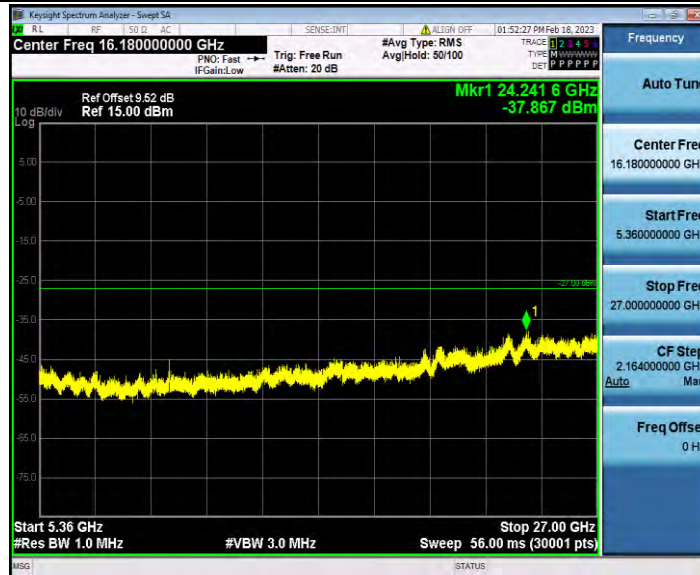
11N20SISO_Ant1_5180_5360~40000



11N20SISO_Ant1_5200_30~5140



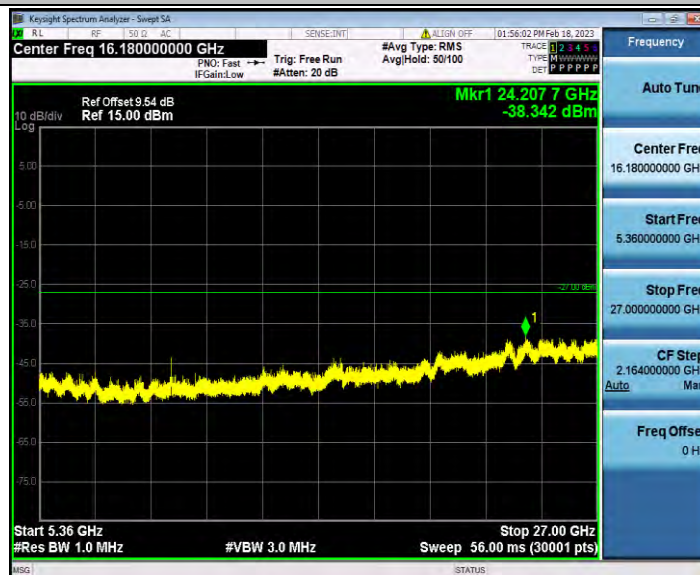
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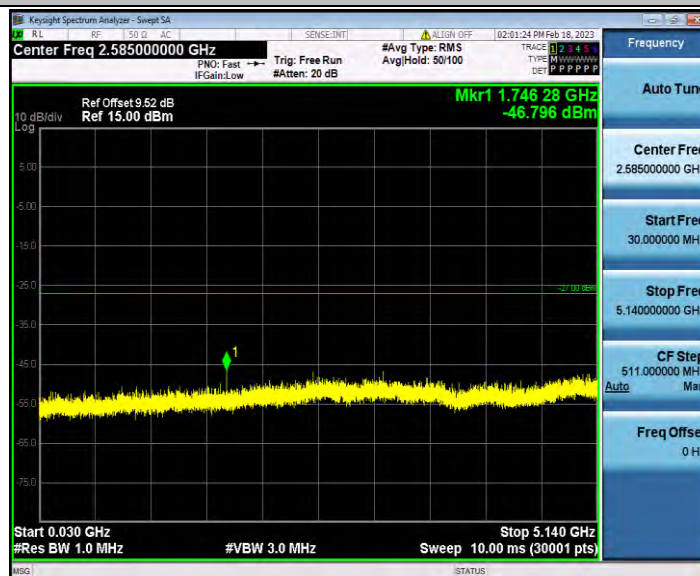
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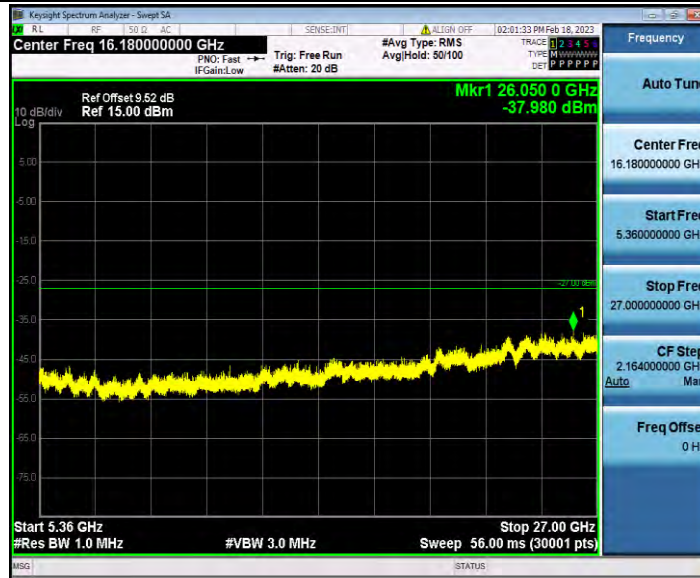
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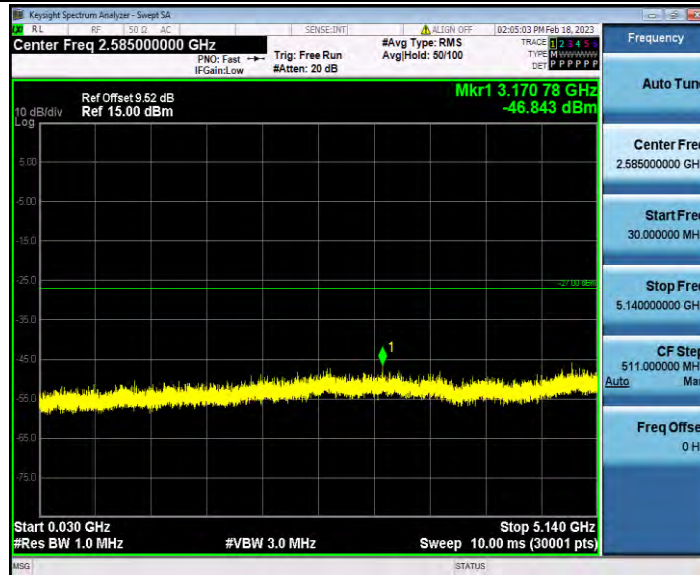
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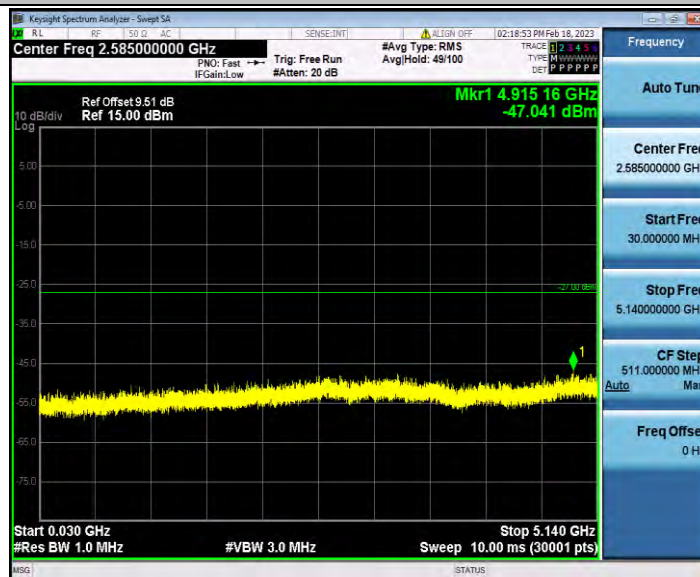
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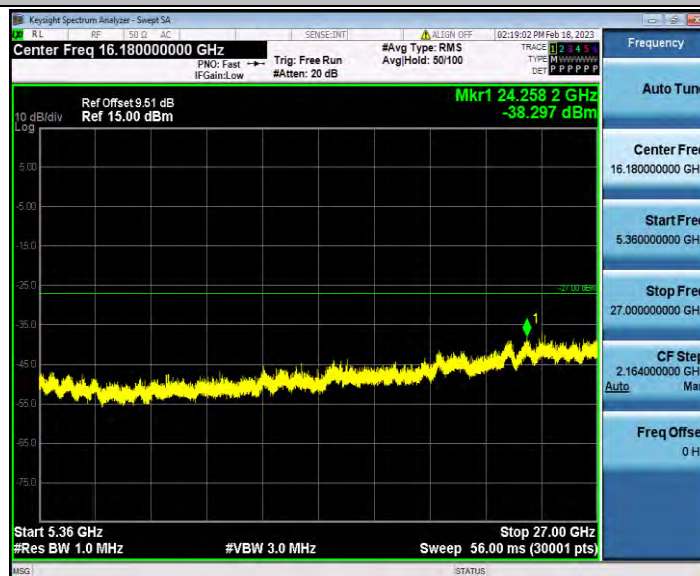
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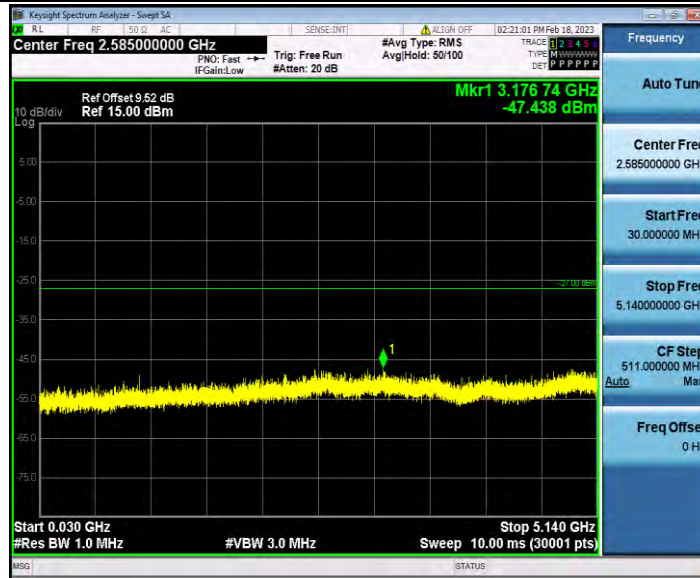
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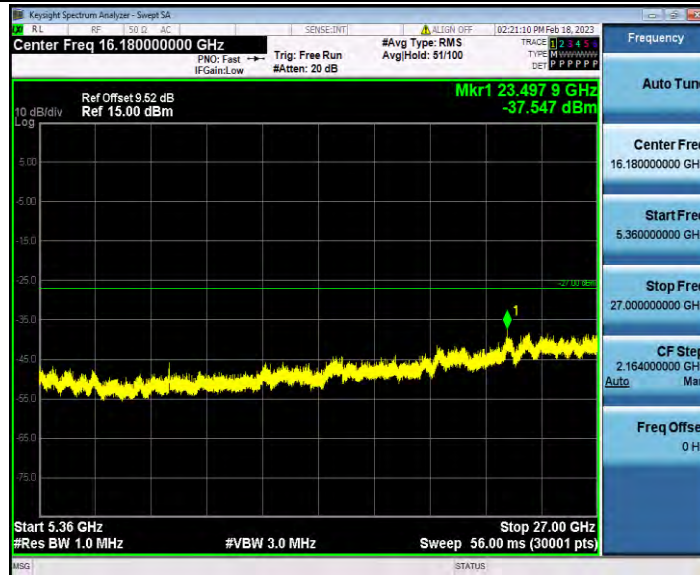
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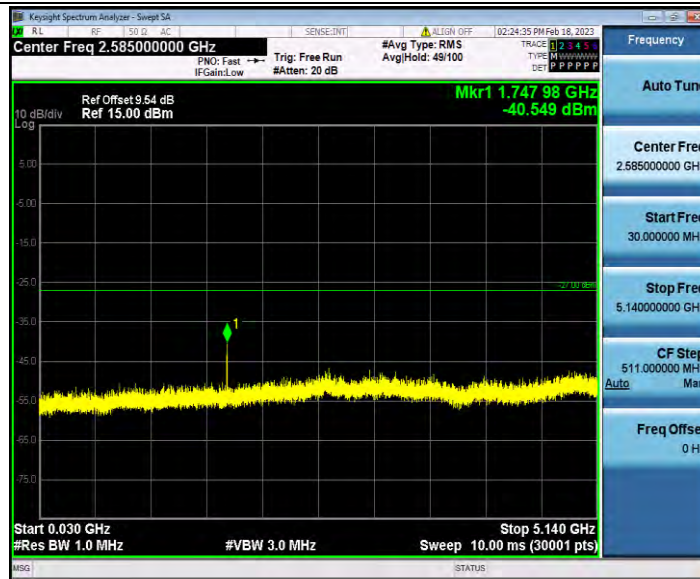
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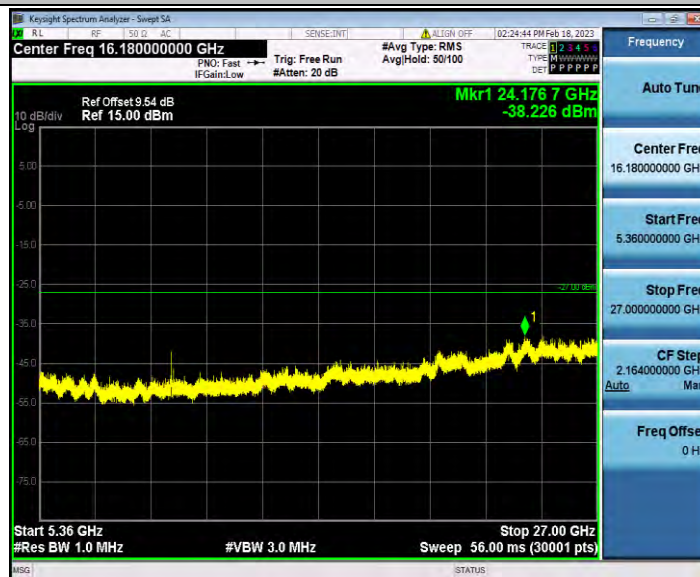
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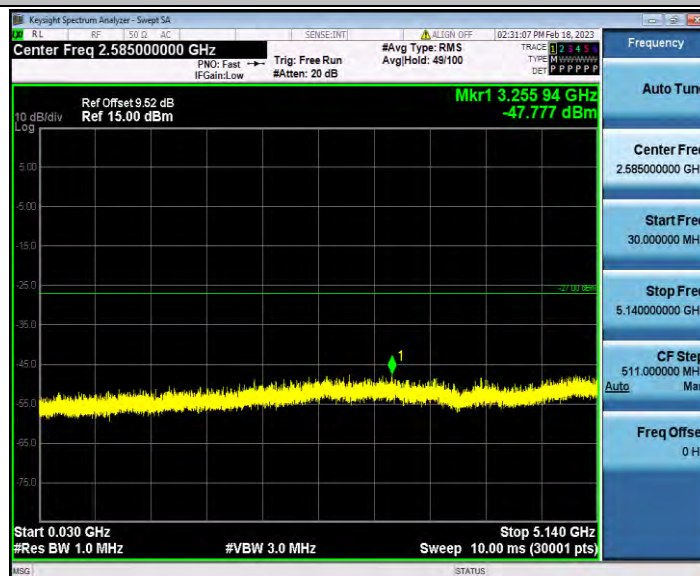
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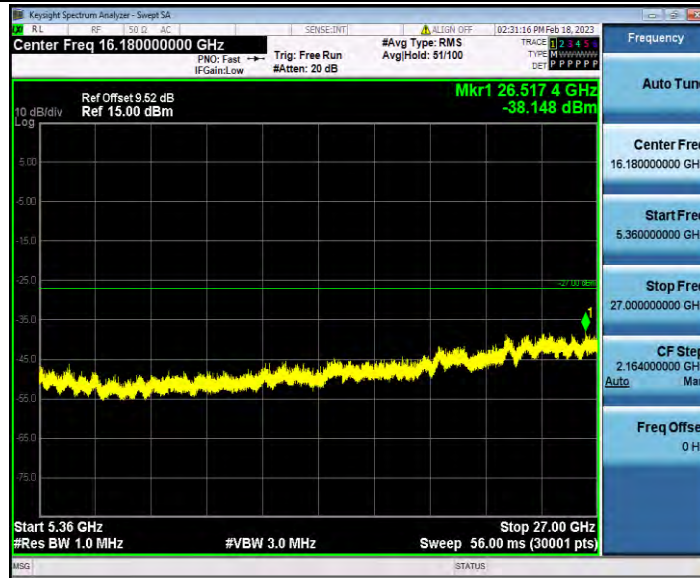
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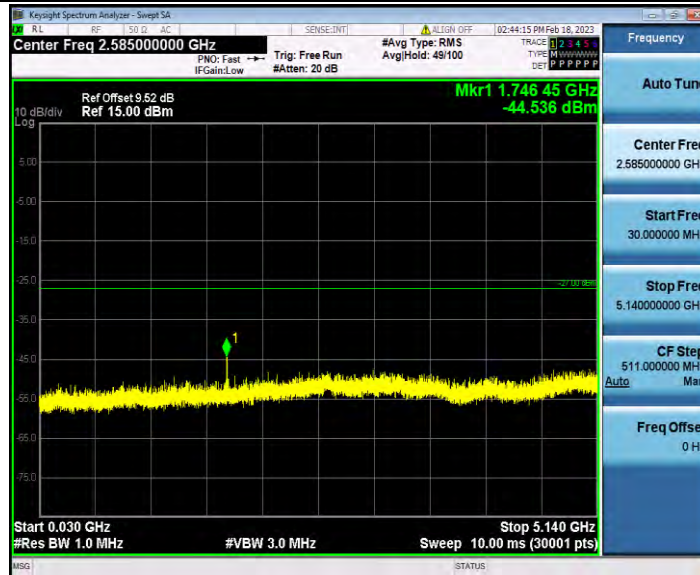
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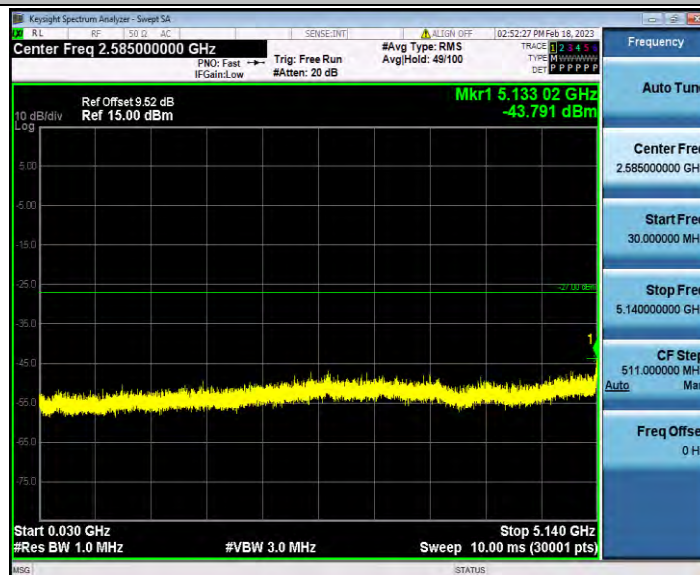
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11AC40SISO_Ant1_5230_5360~40000



11AC80SISO_Ant1_5210_30~5140



11AC80SISO_Ant1_5210_5360~40000

