

Case No. : GTS20230105004-1-4	
Ambient Condition: 25 °C, 45 %RH, Atmos100.1Kpa,	
Test Date: 2023.2.2	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	24.040	5168.640	5192.680	---	---
		5200	26.480	5186.480	5212.960	---	---
		5240	25.880	5227.360	5253.240	---	---
11N20SISO	Ant1	5180	26.440	5167.120	5193.560	---	---
		5200	26.000	5187.960	5213.960	---	---
		5240	29.400	5225.440	5254.840	---	---
11N40SISO	Ant1	5190	47.680	5167.680	5215.360	---	---
		5230	51.360	5205.040	5256.400	---	---
11AC20SISO	Ant1	5180	24.000	5168.400	5192.400	---	---
		5200	26.800	5186.800	5213.600	---	---
		5240	26.680	5226.800	5253.480	---	---
11AC40SISO	Ant1	5190	47.680	5167.040	5214.720	---	---
		5230	48.160	5206.720	5254.880	---	---
11AC80SISO	Ant1	5210	117.920	5162.640	5280.560	---	---

Test Graphs

11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



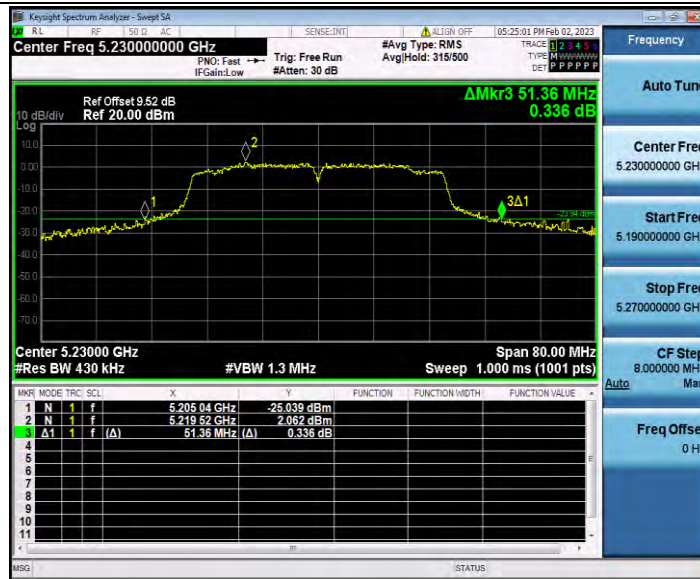
11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



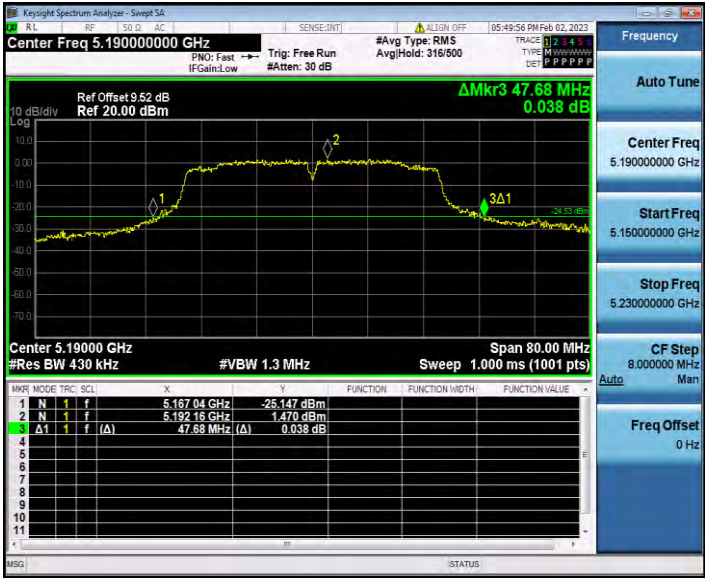
11AC20SISO_Ant1_5200



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	16.942	5171.542	5188.484	---	---
		5200	17.345	5191.353	5208.698	---	---
		5240	17.417	5231.283	5248.700	---	---
11N20SISO	Ant1	5180	18.273	5170.902	5189.175	---	---
		5200	18.382	5190.827	5209.209	---	---
		5240	18.562	5230.725	5249.287	---	---
11N40SISO	Ant1	5190	36.531	5171.822	5208.353	---	---
		5230	36.687	5211.713	5248.400	---	---
11AC20SISO	Ant1	5180	18.174	5170.909	5189.083	---	---
		5200	18.317	5190.855	5209.172	---	---
		5240	18.458	5230.766	5249.224	---	---
11AC40SISO	Ant1	5190	36.510	5171.818	5208.328	---	---
		5230	36.564	5211.760	5248.324	---	---
11AC80SISO	Ant1	5210	75.657	5172.259	5247.916	---	---

Test Graphs

11A_Ant1_5180



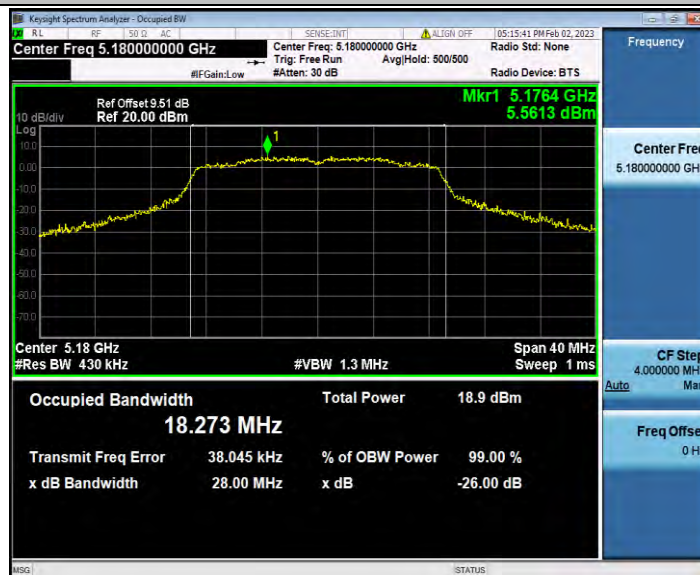
11A_Ant1_5200



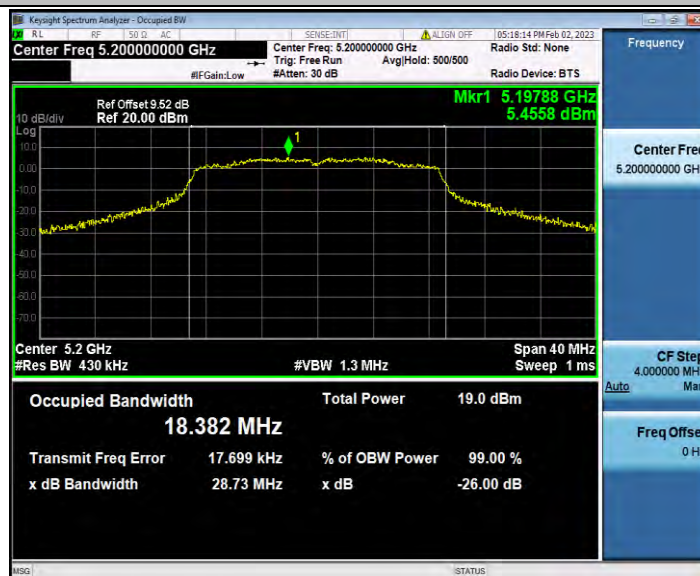
11A_Ant1_5240



11N20SISO_Ant1_5180



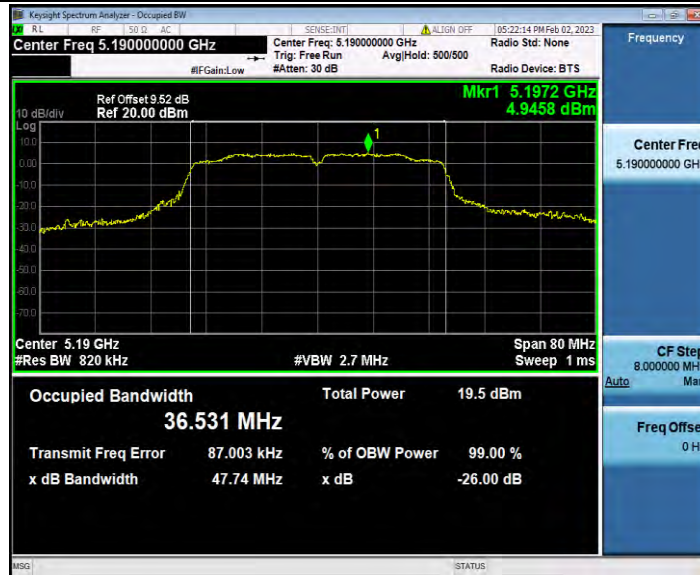
11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



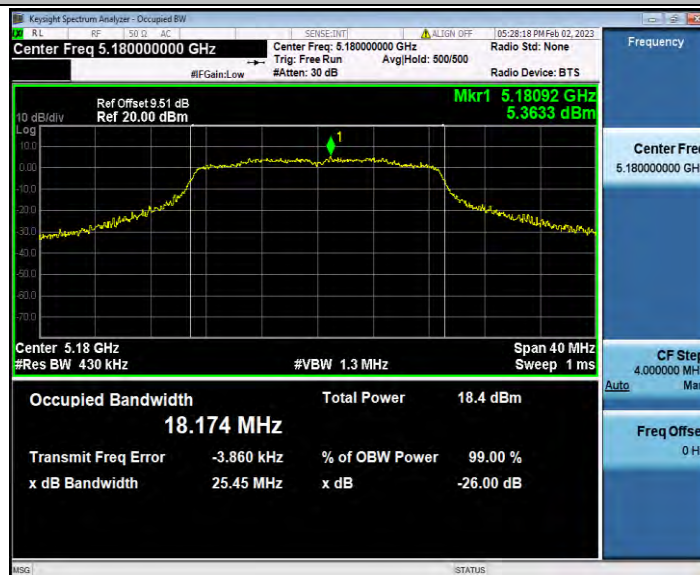
11N40SISO_Ant1_5190



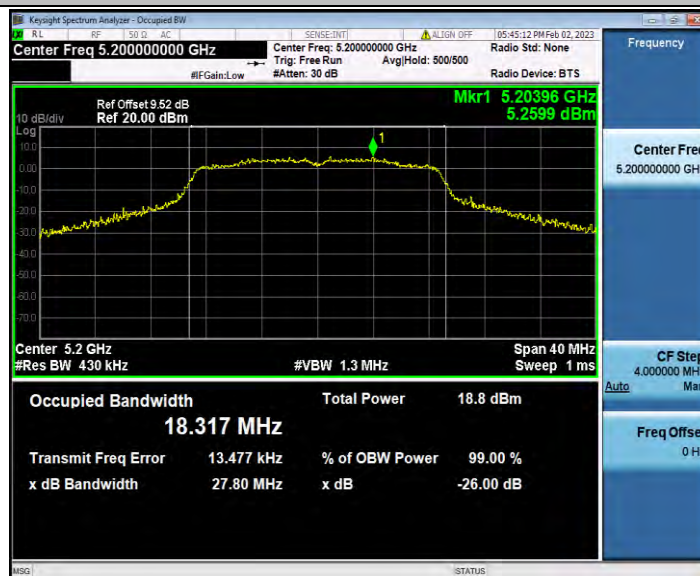
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



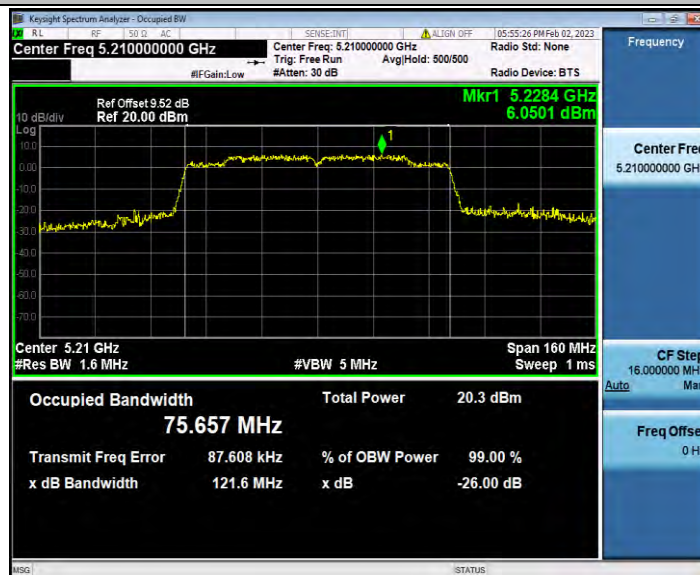
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210

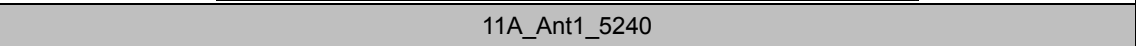
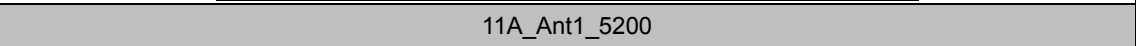


Appendix D.3: Duty Cycle

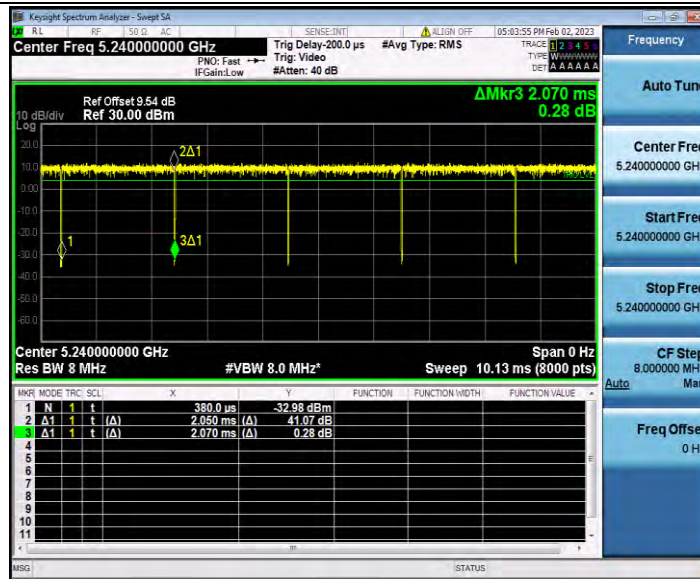
Test Result

TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5180	2.05	2.07	99.03
		5200	2.04	2.07	98.55
		5240	2.05	2.07	99.03
11N20SISO	Ant1	5180	1.90	1.93	98.45
		5200	1.91	1.93	98.96
		5240	1.91	1.93	98.96
11N40SISO	Ant1	5190	0.94	1.11	84.68
		5230	0.93	1.10	84.55
11AC20SISO	Ant1	5180	1.92	1.94	98.97
		5200	1.92	1.94	98.97
		5240	1.91	1.94	98.45
11AC40SISO	Ant1	5190	0.94	1.11	84.68
		5230	0.95	1.12	84.82
11AC80SISO	Ant1	5210	0.46	0.54	85.19

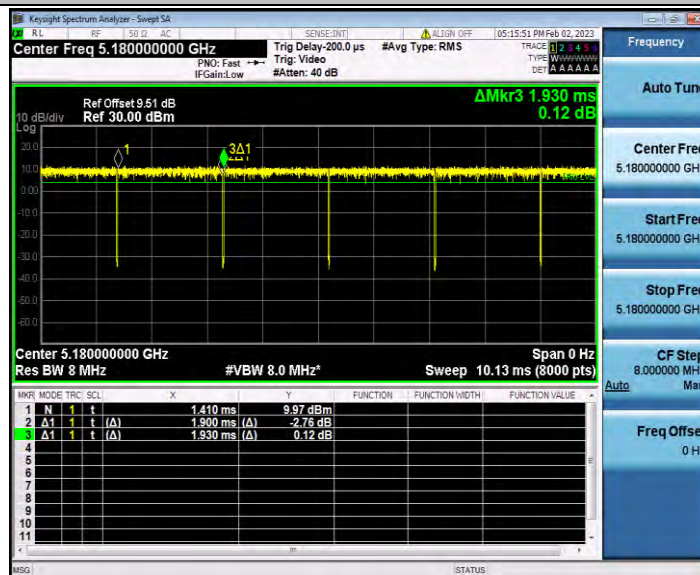
11A_Ant1_5180



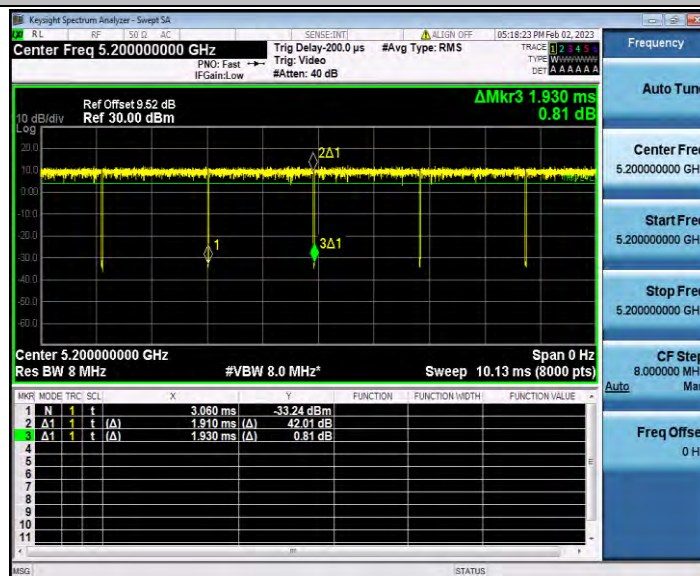
11A_Ant1_5240



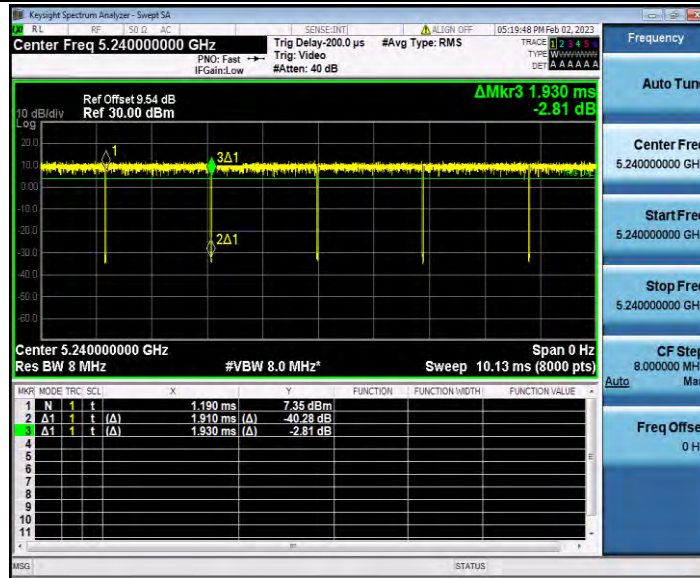
11N20SISO_Ant1_5180



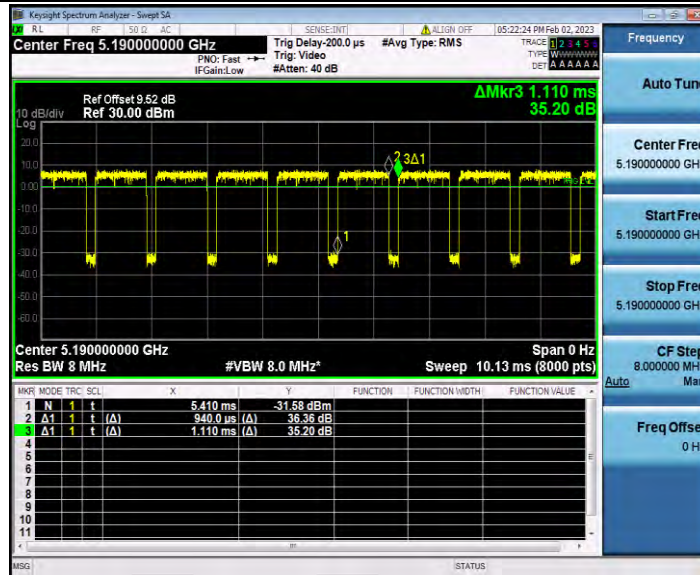
11N20SISO_Ant1_5200



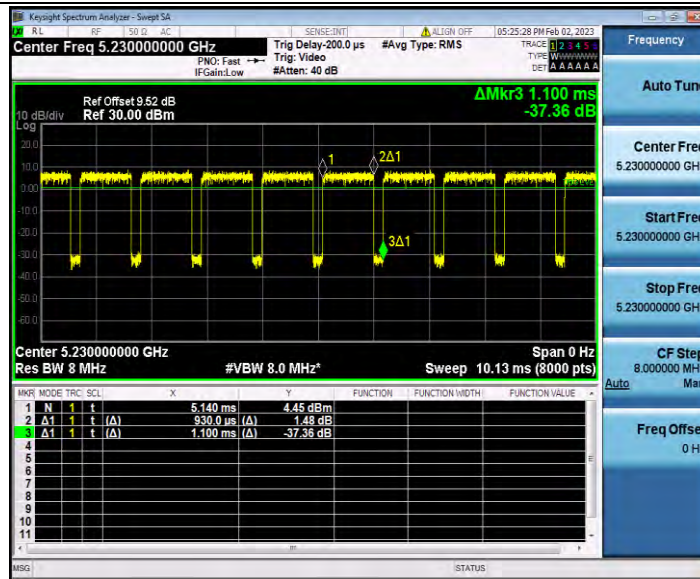
11N20SISO_Ant1_5240



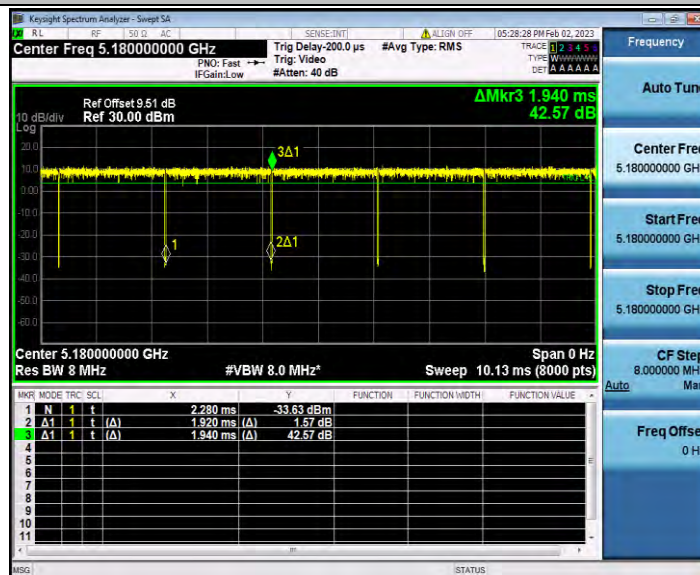
11N40SISO_Ant1_5190



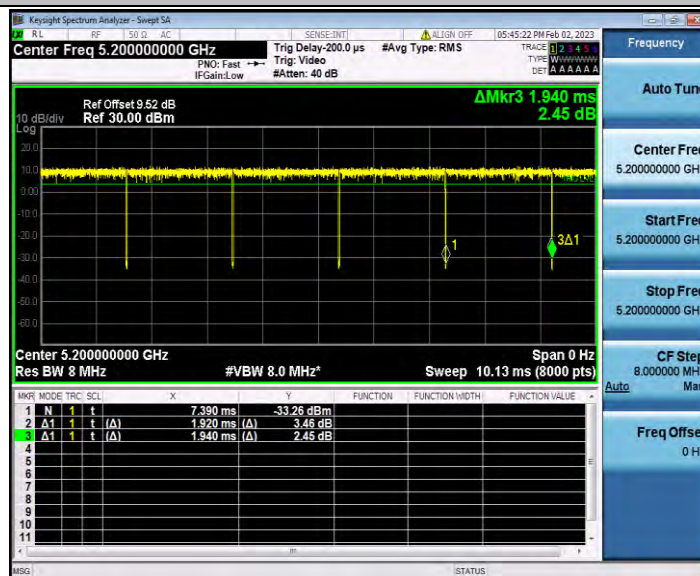
11N40SISO_Ant1_5230



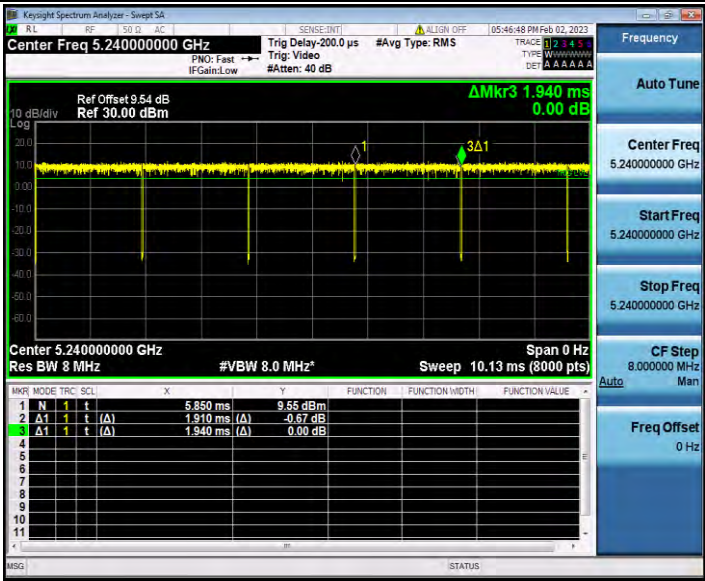
11AC20SISO_Ant1_5180



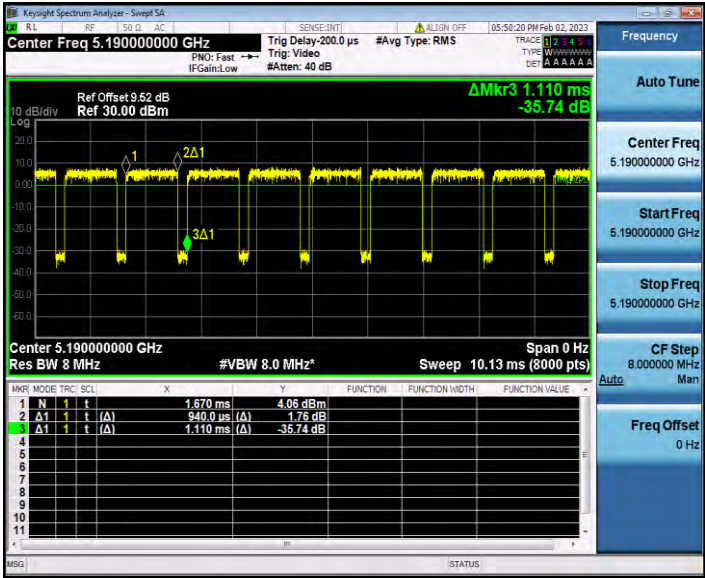
11AC20SISO_Ant1_5200



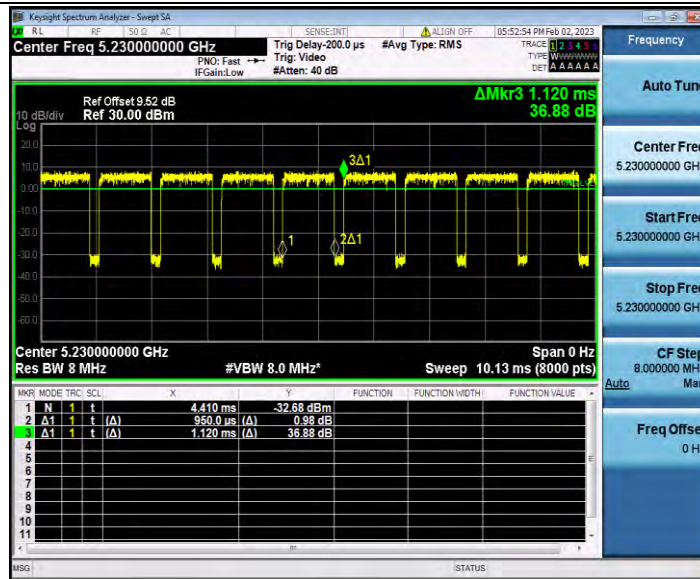
11AC20SISO_Ant1_5240



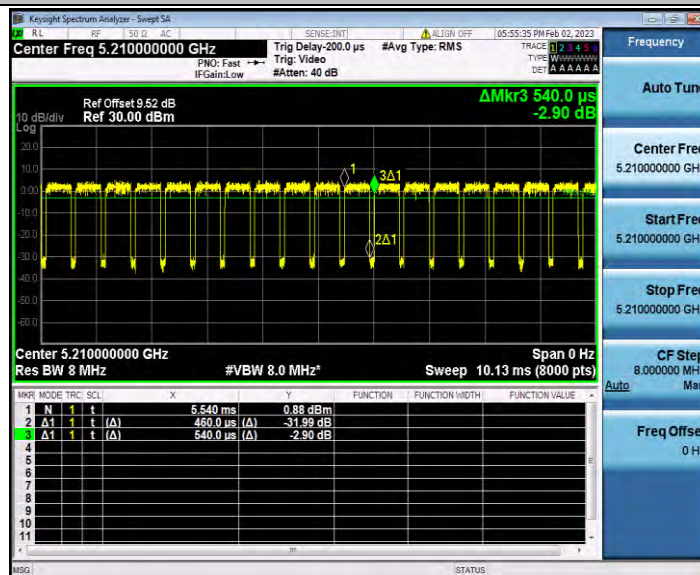
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



Appendix D.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency[M Hz]	Channel Powert [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	11.82	99.03	0.04	11.86	≤23.98	PASS
		5200	12.18	98.55	0.06	12.24	≤23.98	PASS
		5240	12.06	99.03	0.04	12.10	≤23.98	PASS
11N20SISO	Ant1	5180	11.92	98.45	0.07	11.99	≤23.98	PASS
		5200	12.09	98.96	0.05	12.14	≤23.98	PASS
		5240	12.05	98.96	0.05	12.10	≤23.98	PASS
11N40SISO	Ant1	5190	11.42	84.68	0.72	12.14	≤23.98	PASS
		5230	11.53	84.55	0.73	12.26	≤23.98	PASS
11AC20SISO	Ant1	5180	11.52	98.97	0.04	11.56	≤23.98	PASS
		5200	11.90	98.97	0.04	11.94	≤23.98	PASS
		5240	11.85	98.45	0.07	11.92	≤23.98	PASS
11AC40SISO	Ant1	5190	11.10	84.68	0.72	11.82	≤23.98	PASS
		5230	11.16	84.82	0.72	11.88	≤23.98	PASS
11AC80SISO	Ant1	5210	10.69	85.19	0.70	11.39	≤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	0.75	≤11.00	PASS
		5200	1.17	≤11.00	PASS
		5240	1.14	≤11.00	PASS
11N20SISO	Ant1	5180	0.76	≤11.00	PASS
		5200	0.96	≤11.00	PASS
		5240	1.22	≤11.00	PASS
11N40SISO	Ant1	5190	-1.87	≤11.00	PASS
		5230	-1.78	≤11.00	PASS
11AC20SISO	Ant1	5180	0.39	≤11.00	PASS
		5200	0.77	≤11.00	PASS
		5240	0.85	≤11.00	PASS
11AC40SISO	Ant1	5190	-2.02	≤11.00	PASS
		5230	-1.96	≤11.00	PASS
11AC80SISO	Ant1	5210	-5.65	≤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



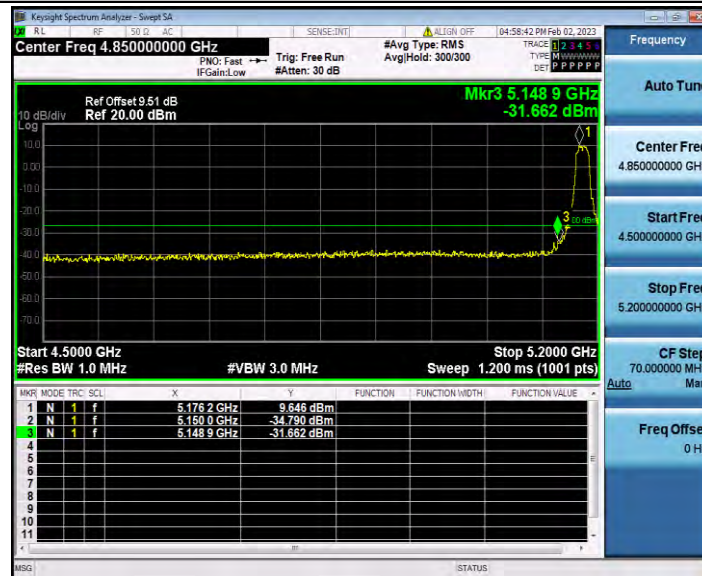
Appendix D.6: Band edge measurements

Test Result B1

TestMode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-31.66	≤-27	PASS
		High	5240	-37.61	≤-27	PASS
11N20SISO	Ant1	Low	5180	-33.13	≤-27	PASS
		High	5240	-36.99	≤-27	PASS
11N40SISO	Ant1	Low	5190	-30.47	≤-27	PASS
		High	5230	-37.11	≤-27	PASS
11AC20SISO	Ant1	Low	5180	-34.3	≤-27	PASS
		High	5240	-37.92	≤-27	PASS
11AC40SISO	Ant1	Low	5190	-31.13	≤-27	PASS
		High	5230	-37.64	≤-27	PASS
11AC80SISO	Ant1	Low	5210	-27.36	≤-27	PASS
		High	5210	-38.23	≤-27	PASS

Test Graphs B1

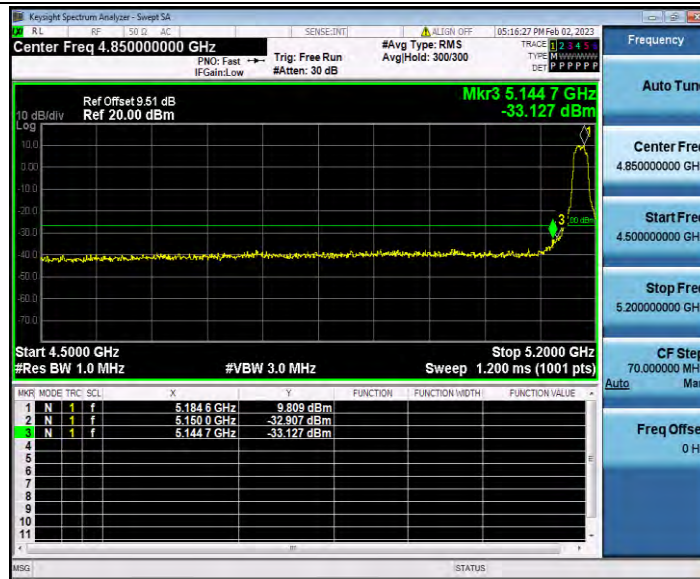
11A_Ant1_Low_5180



11A_Ant1_High_5240



11N20SISO_Ant1_Low_5180



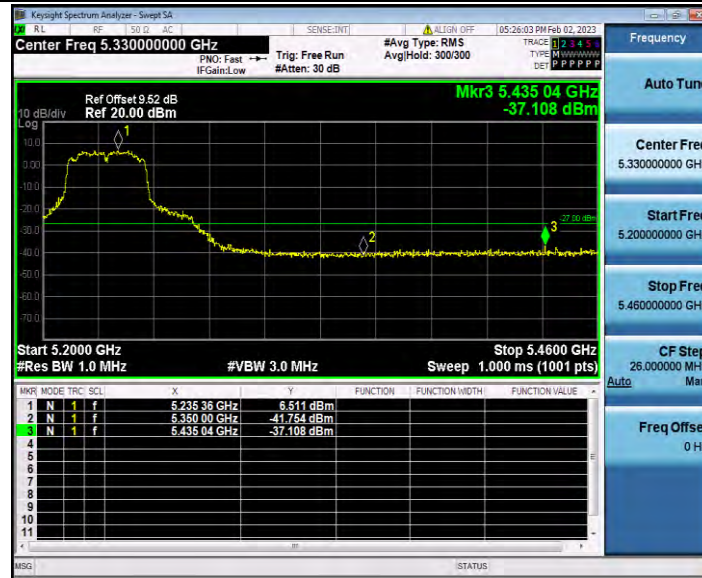
11N20SISO_Ant1_High_5240



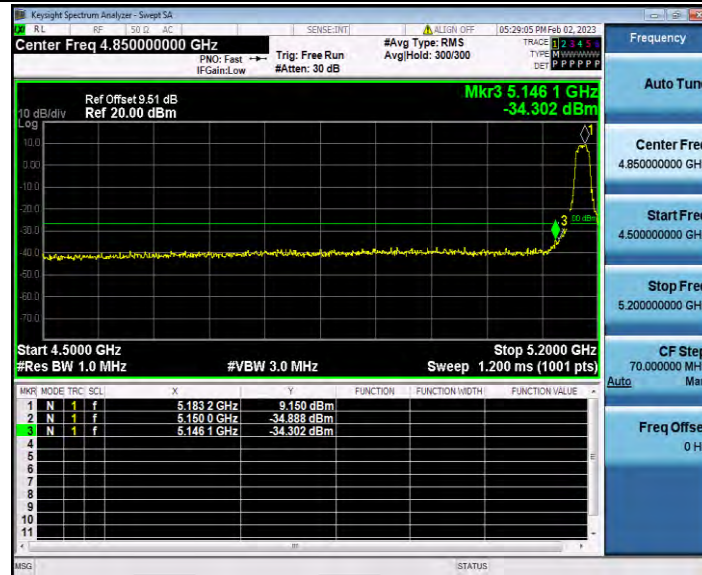
11N40SISO_Ant1_Low_5190



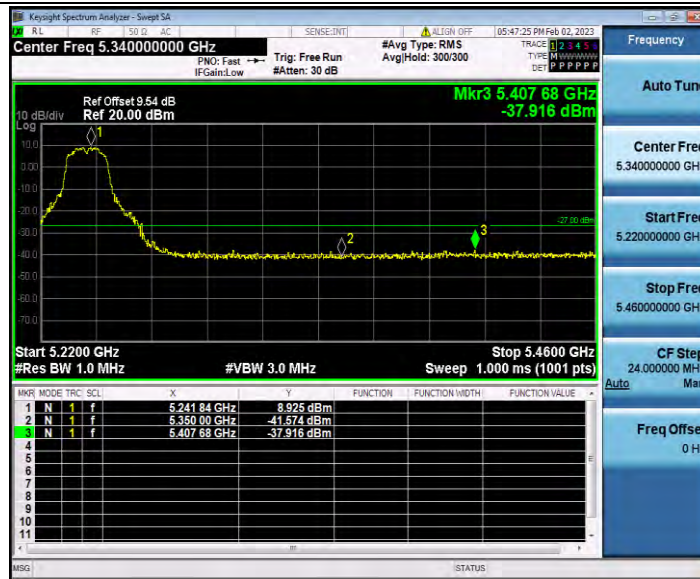
11N40SISO_Ant1_High_5230



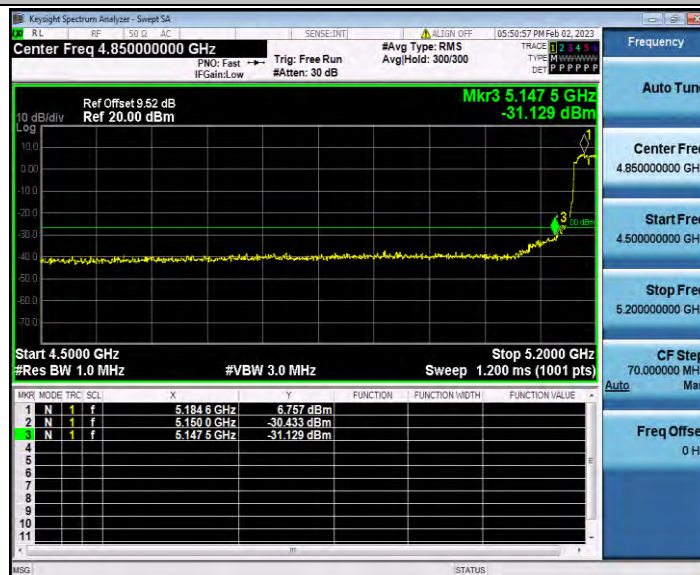
11AC20SISO_Ant1_Low_5180



11AC20SISO_Ant1_High_5240



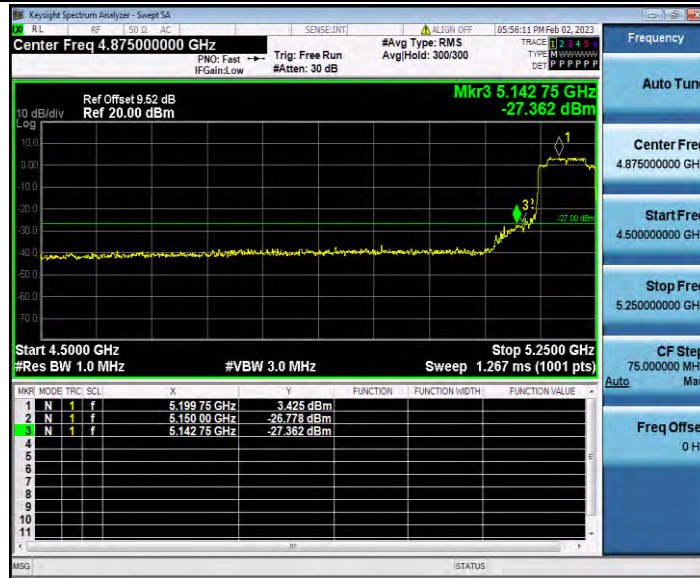
11AC40SISO_Ant1_Low_5190



11AC40SISO_Ant1_High_5230



11AC80SISO_Ant1_Low_5210



11AC80SISO_Ant1_High_5210



Appendix D.7: Conducted Spurious Emission

Test Result

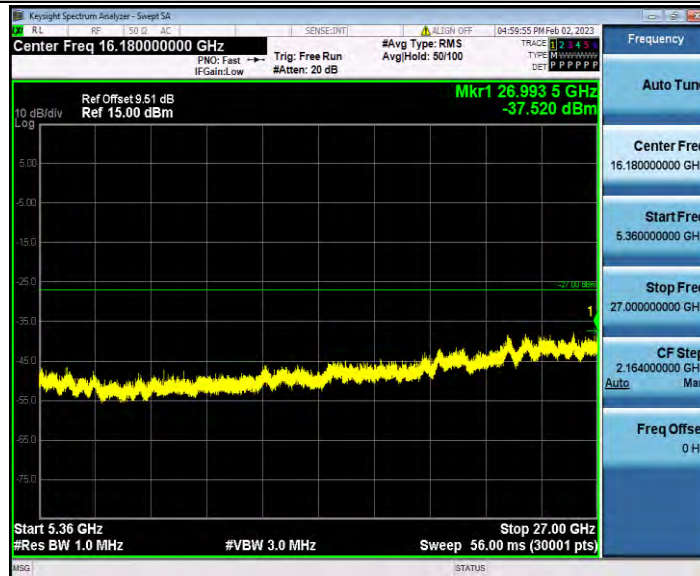
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	30~5140	5139.49	-41.86	≤-27	PASS
			5360~40000	26993.51	-37.52	≤-27	PASS
		5200	30~5140	1747.98	-39.16	≤-27	PASS
			5360~40000	24310.15	-37.55	≤-27	PASS
		5240	30~5140	5078.68	-45.1	≤-27	PASS
			5360~40000	24774.69	-37.52	≤-27	PASS
11N20SISO	Ant1	5180	30~5140	5139.66	-40.18	≤-27	PASS
			5360~40000	24298.61	-38.41	≤-27	PASS
		5200	30~5140	5138.3	-44.12	≤-27	PASS
			5360~40000	24772.52	-38.12	≤-27	PASS
		5240	30~5140	5081.24	-44.97	≤-27	PASS
			5360~40000	24164.44	-38.14	≤-27	PASS
11N40SISO	Ant1	5190	30~5140	5129.78	-33.81	≤-27	PASS
			5360~40000	26075.25	-38.32	≤-27	PASS
		5230	30~5140	5137.79	-43.41	≤-27	PASS
			5360~40000	25708.09	-38.57	≤-27	PASS
11AC20SISO	Ant1	5180	30~5140	5136.93	-41.17	≤-27	PASS
			5360~40000	26435.92	-37.58	≤-27	PASS
		5200	30~5140	5136.42	-45.17	≤-27	PASS
			5360~40000	25648.94	-38.27	≤-27	PASS
		5240	30~5140	5081.06	-45.75	≤-27	PASS
			5360~40000	25604.22	-37.78	≤-27	PASS
11AC40SISO	Ant1	5190	30~5140	5122.63	-34.58	≤-27	PASS
			5360~40000	26754.75	-37.59	≤-27	PASS
		5230	30~5140	5127.4	-44.85	≤-27	PASS
			5360~40000	23459.7	-38.17	≤-27	PASS
11AC80SISO	Ant1	5210	30~5140	5139.32	-27.79	≤-27	PASS
			5360~40000	24212.77	-37.6	≤-27	PASS

Test Graphs

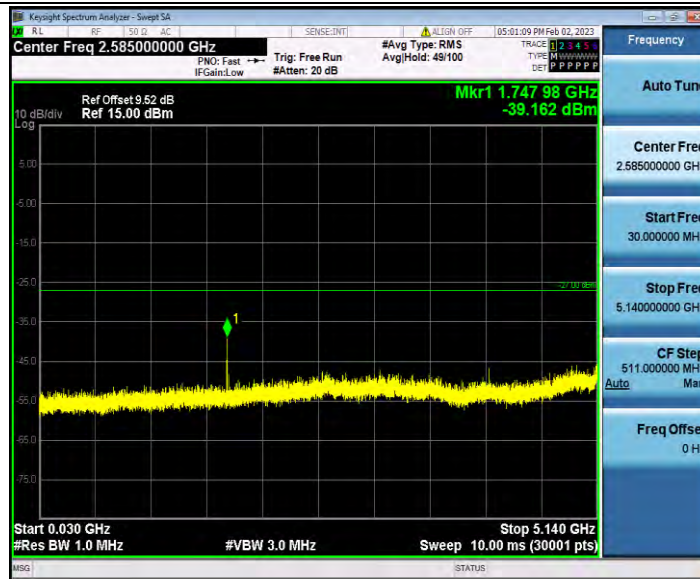
11A_Ant1_5180_30~5140



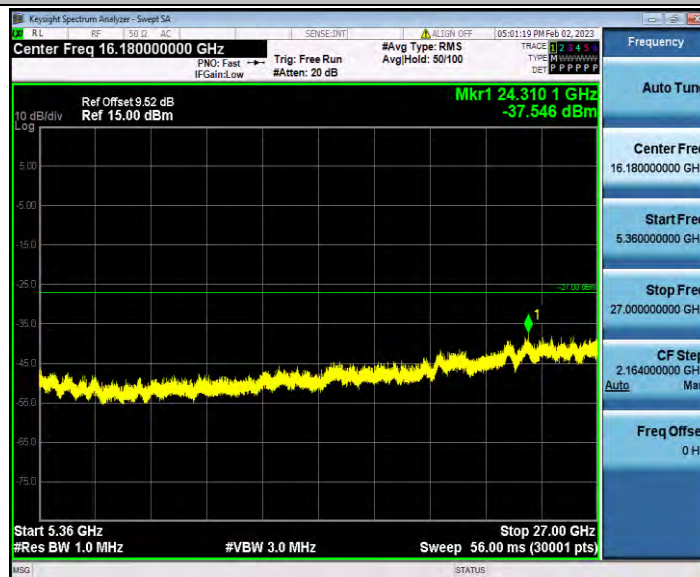
11A_Ant1_5180_5360~40000



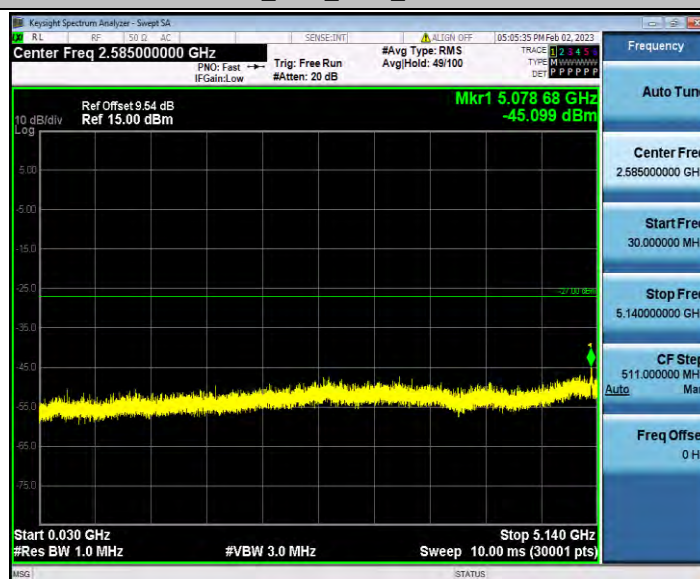
11A_Ant1_5200_30~5140



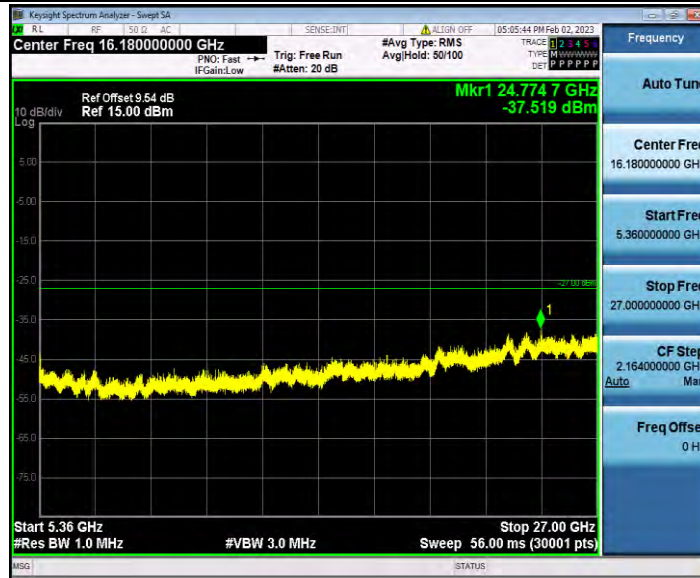
11A_Ant1_5200_5360~40000



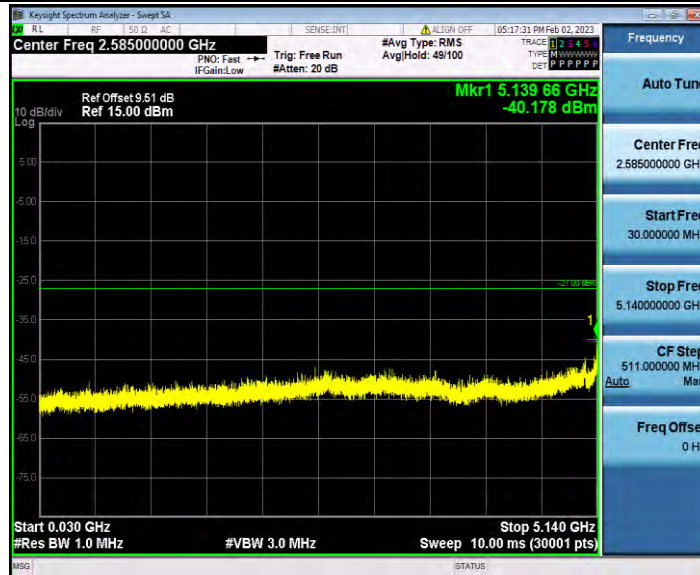
11A_Ant1_5240_30~5140



11A_Ant1_5240_5360~40000



11N20SISO_Ant1_5180_30~5140



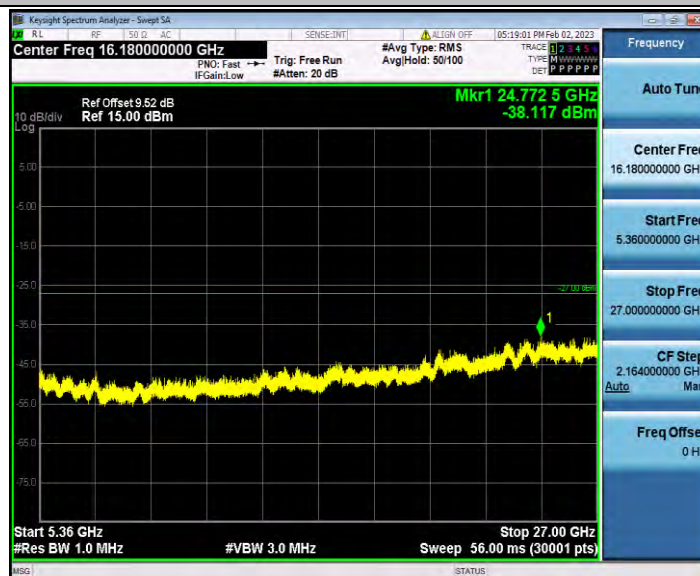
11N20SISO_Ant1_5180_5360~40000



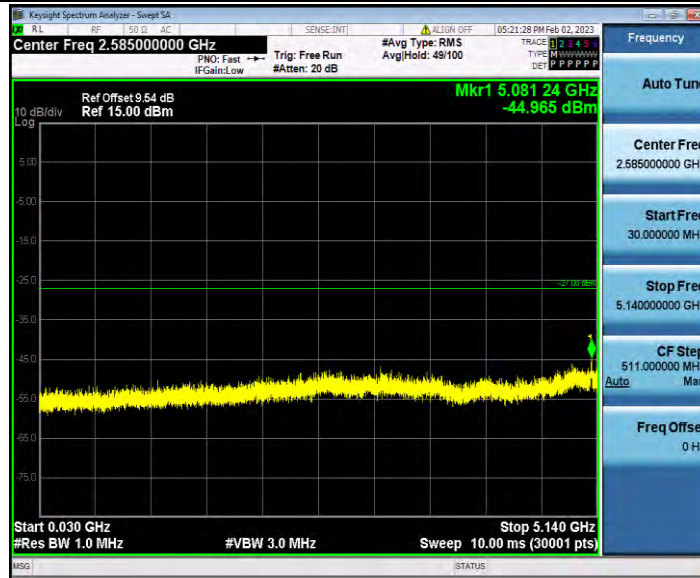
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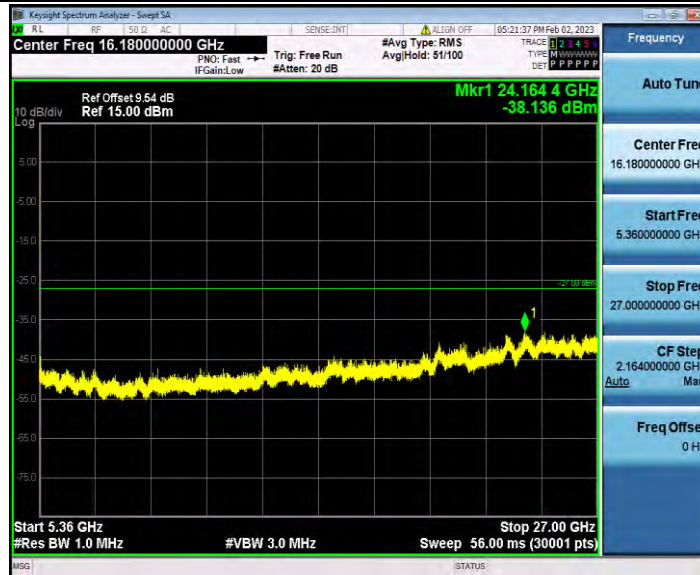
11N20SISO_Ant1_5200_5360~40000



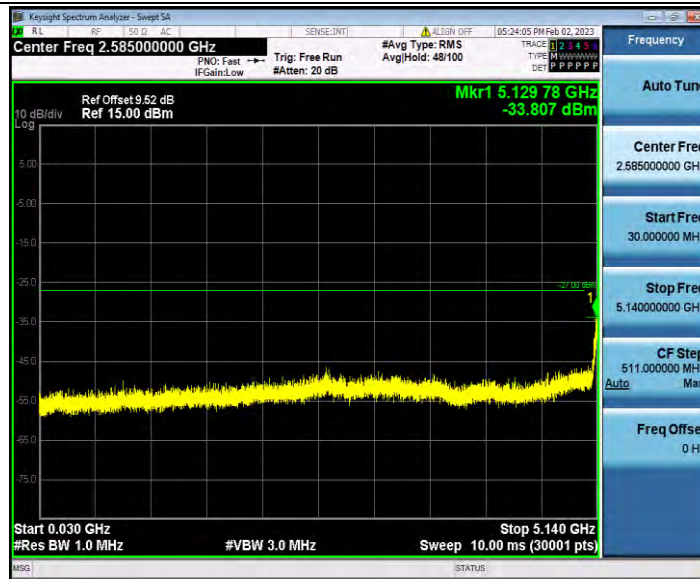
11N20SISO_Ant1_5240_30~5140



11N20SISO_Ant1_5240_5360~40000



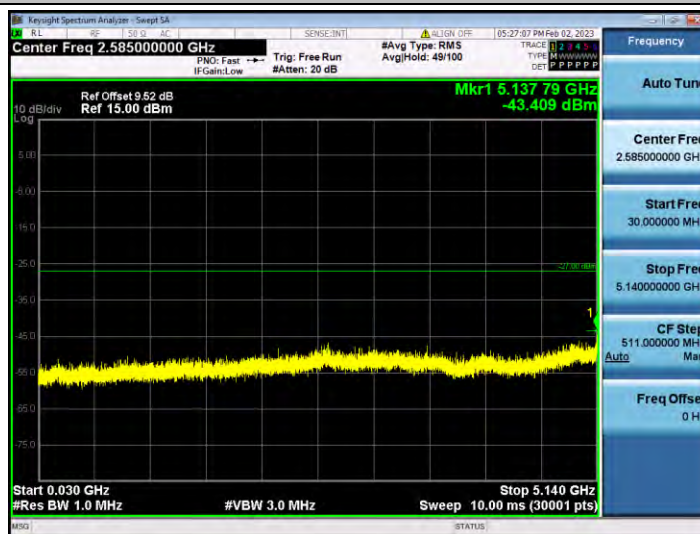
11N40SISO_Ant1_5190_30~5140



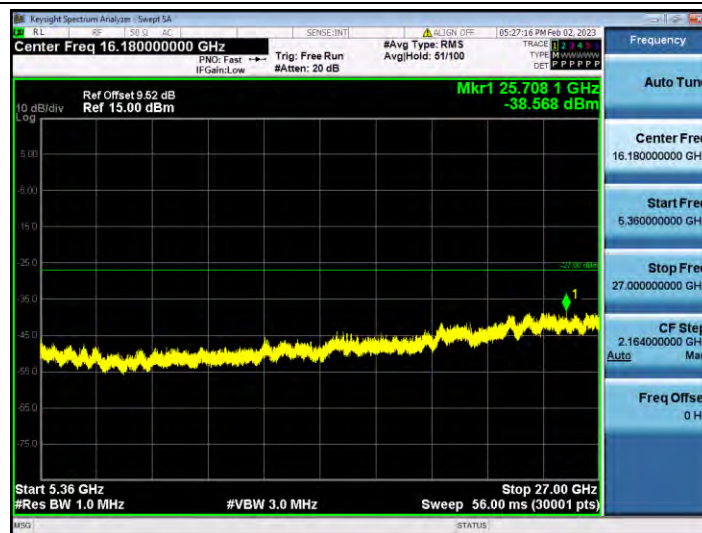
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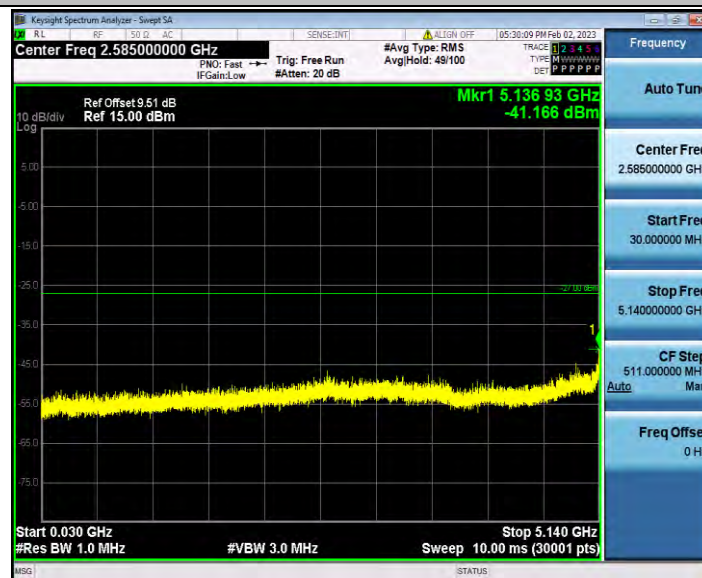
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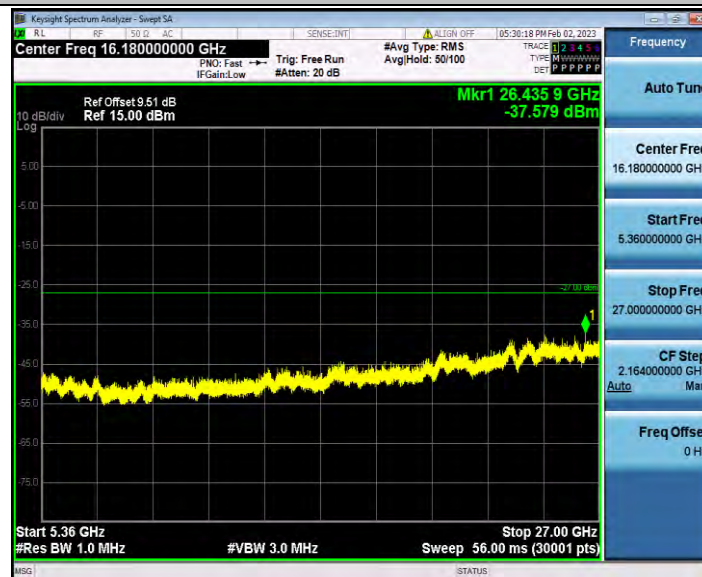
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11AC20SISO_Ant1_5180_30~5140



11AC20SISO_Ant1_5180_5360~40000



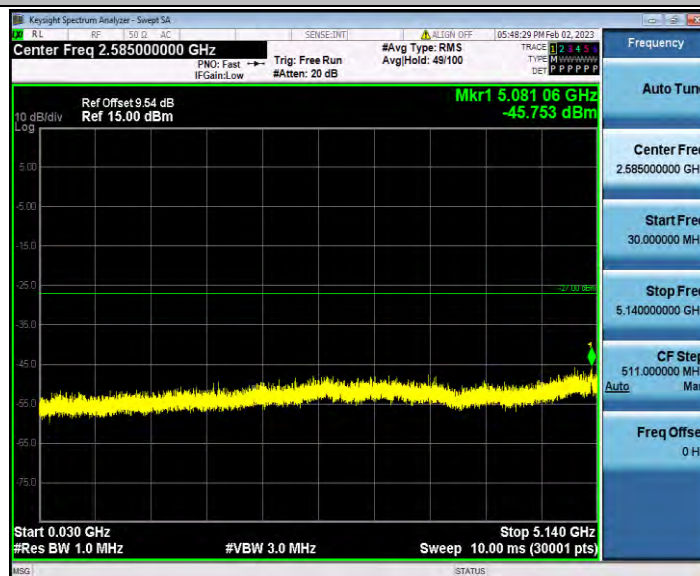
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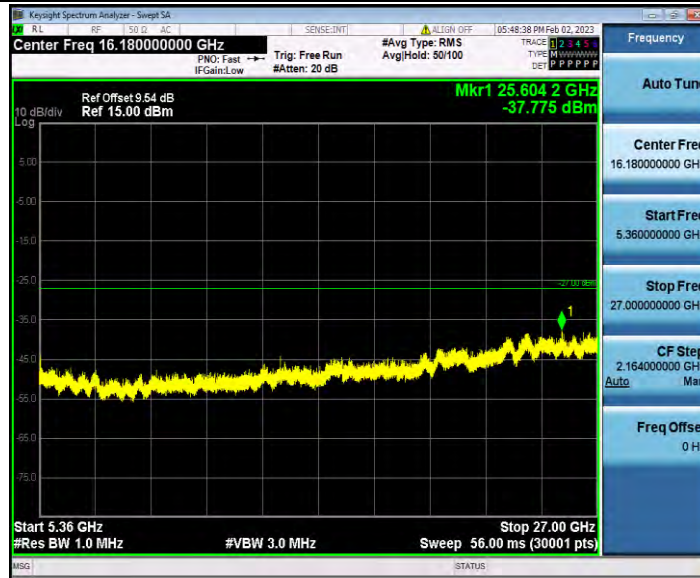
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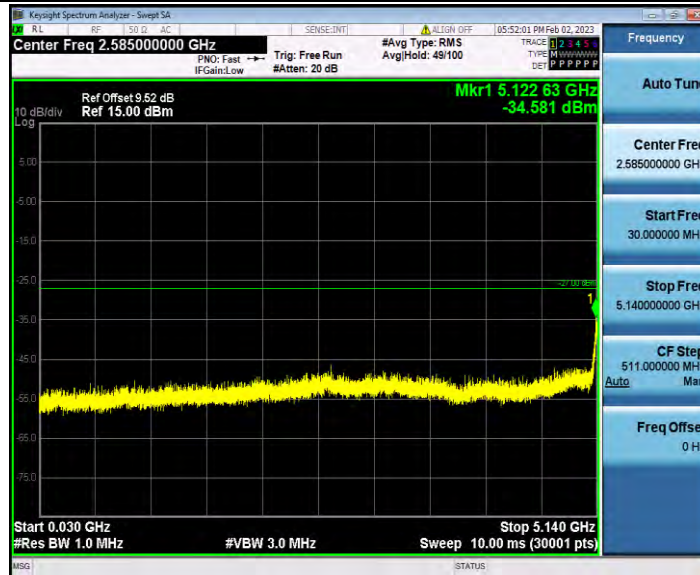
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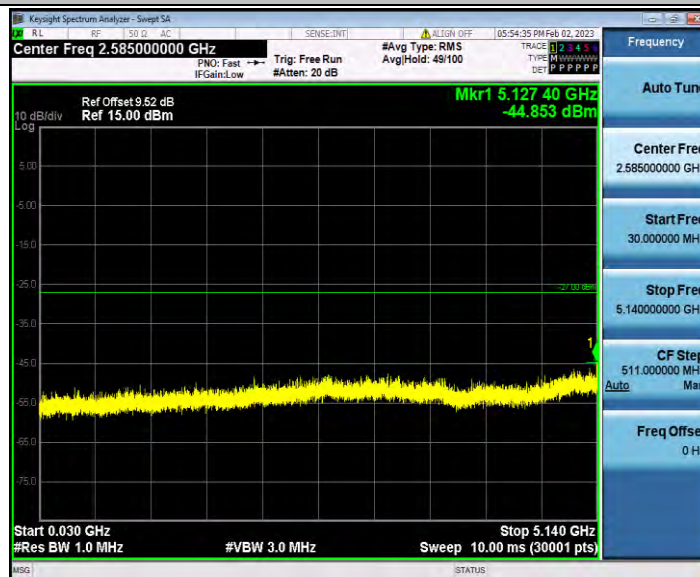
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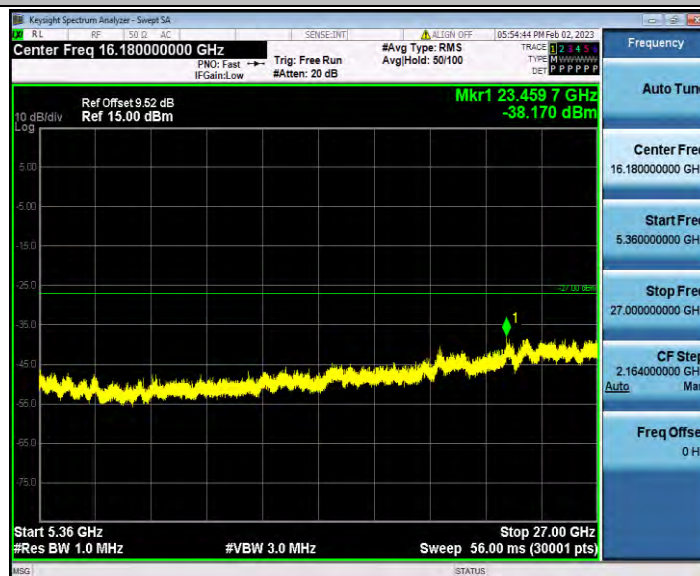
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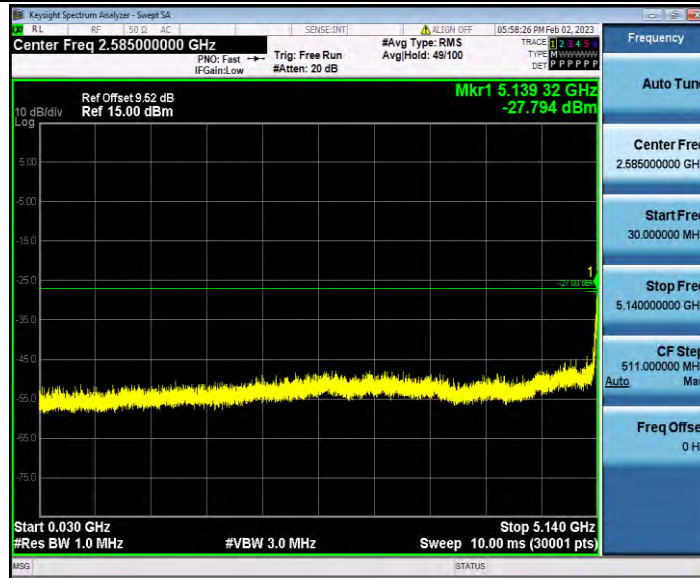
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11AC80SISO_Ant1_5210_30~5140



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