

Case No. : GTS20221216016-1-14	
Ambient Condition: 25 °C, 45 %RH, Atmos100.1Kpa,	
Test Date: 2023.1.7	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	Ant2	5180	20.880	5170.040	5190.920	---	---
		5200	21.760	5188.680	5210.440	---	---
		5240	21.600	5229.560	5251.160	---	---
11N20SISO	Ant2	5180	22.560	5168.320	5190.880	---	---
		5200	22.240	5188.440	5210.680	---	---
		5240	24.040	5227.320	5251.360	---	---
11N40SISO	Ant2	5190	61.920	5161.040	5222.960	---	---
		5230	61.920	5200.720	5262.640	---	---
11AC20SISO	Ant2	5180	20.480	5169.760	5190.240	---	---
		5200	23.760	5186.680	5210.440	---	---
		5240	22.080	5229.160	5251.240	---	---
11AC40SISO	Ant2	5190	45.360	5167.280	5212.640	---	---
		5230	40.160	5210.000	5250.160	---	---
11AC80SISO	Ant2	5210	87.680	5166.800	5254.480	---	---

Test Graphs

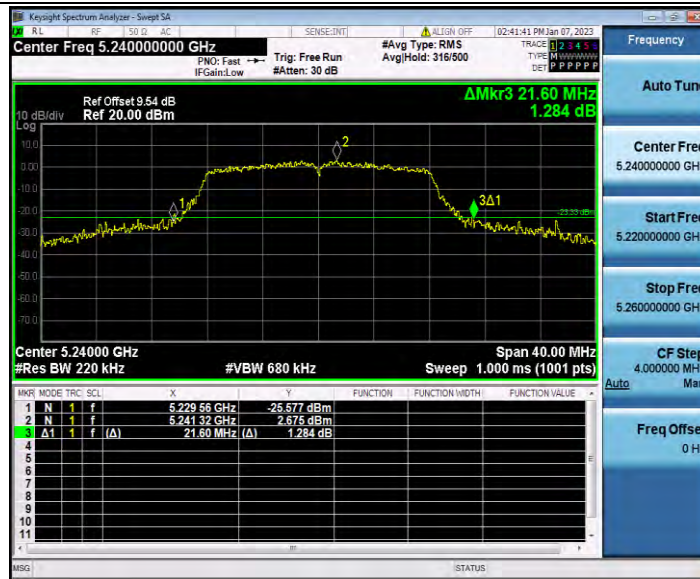
11A_Ant2_5180



11A_Ant2_5200



11A_Ant2_5240



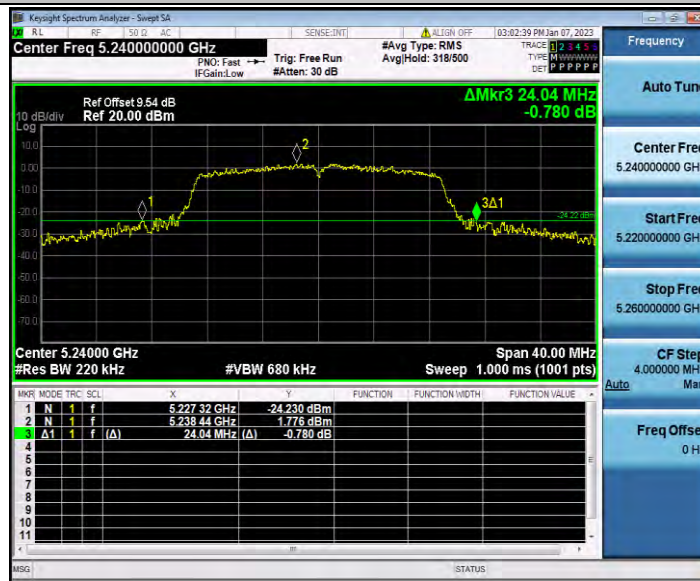
11N20SISO_Ant2_5180



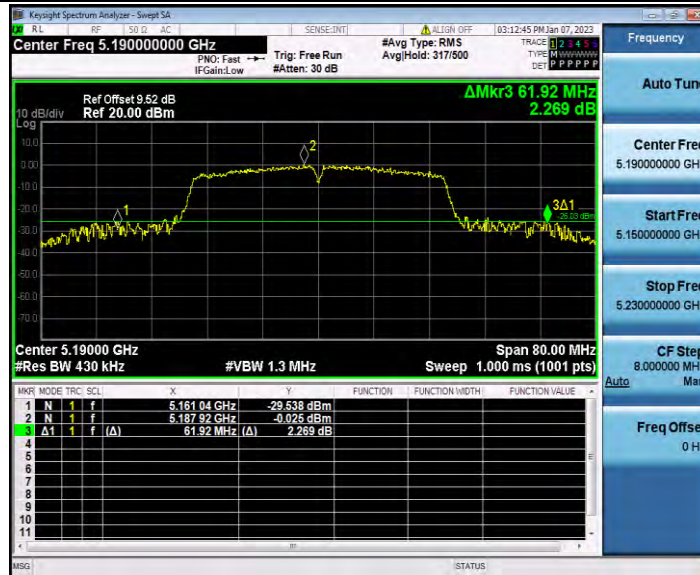
11N20SISO_Ant2_5200



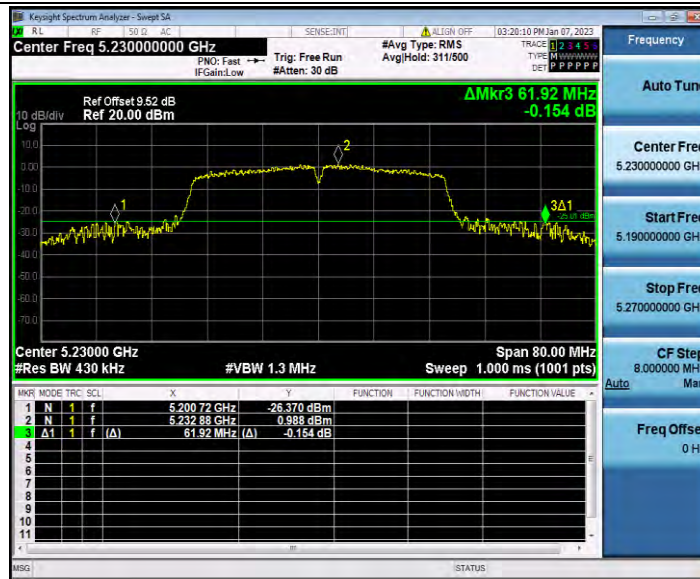
11N20SISO_Ant2_5240



11N40SISO_Ant2_5190



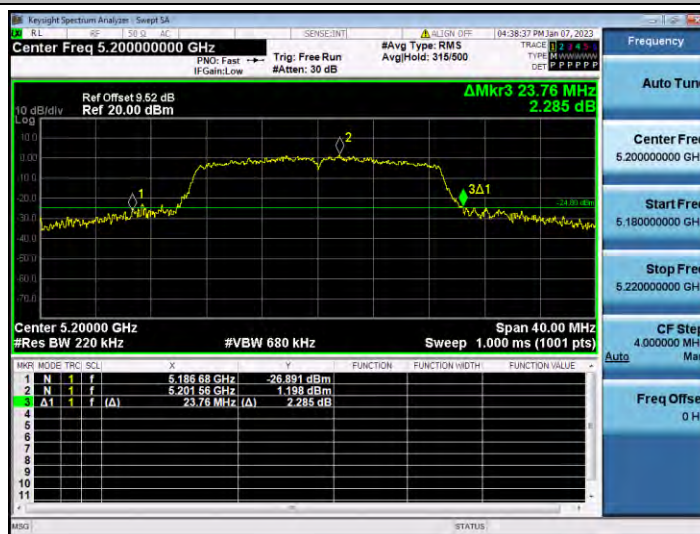
11N40SISO_Ant2_5230



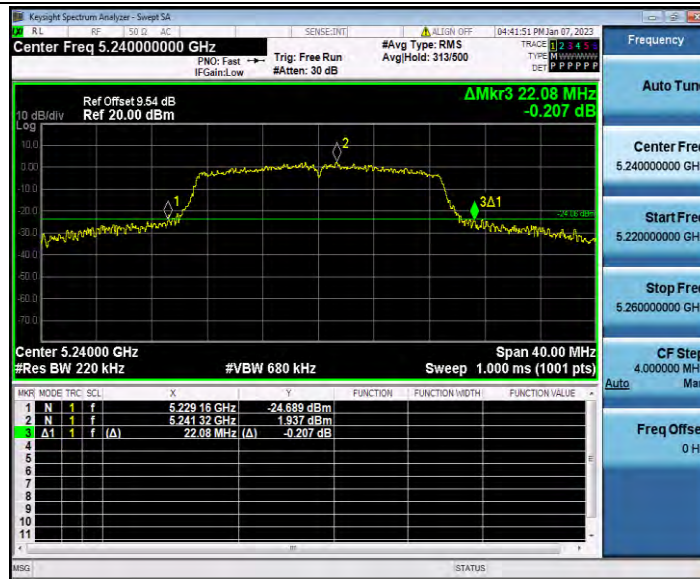
11AC20SISO_Ant2_5180



11AC20SISO_Ant2_5200



11AC20SISO_Ant2_5240



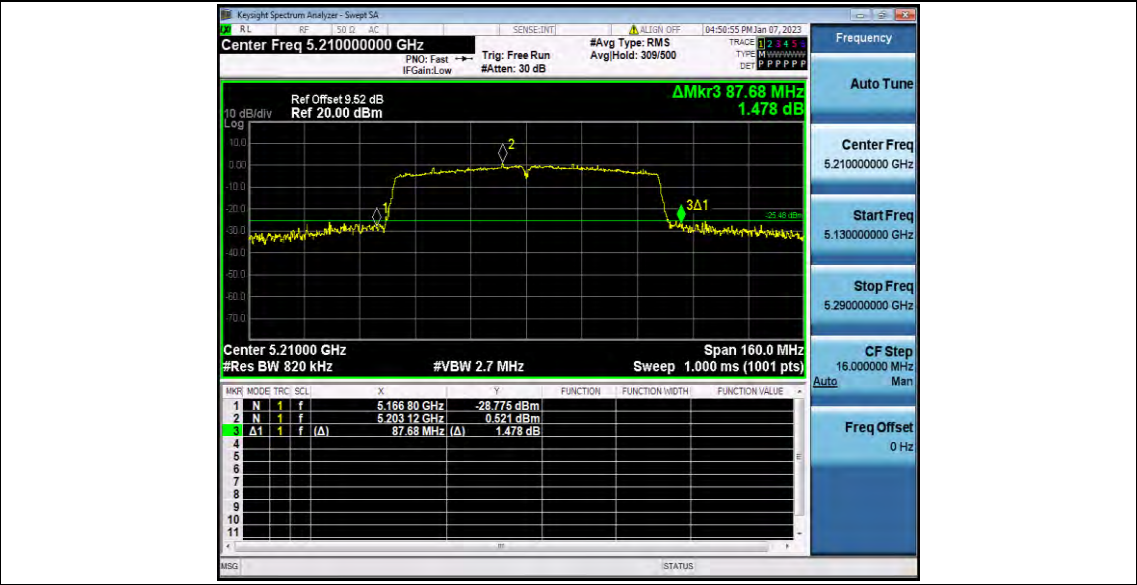
11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



11AC80SISO_Ant2_5210



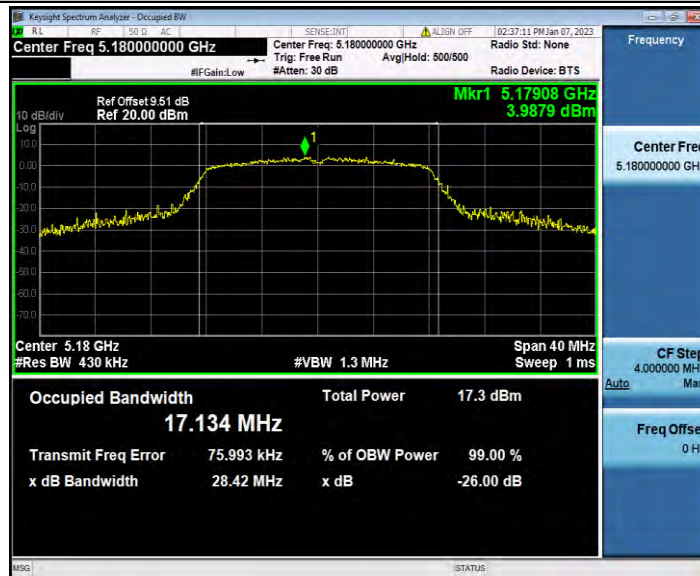
Appendix D.2: Occupied channel bandwidth

Test Result

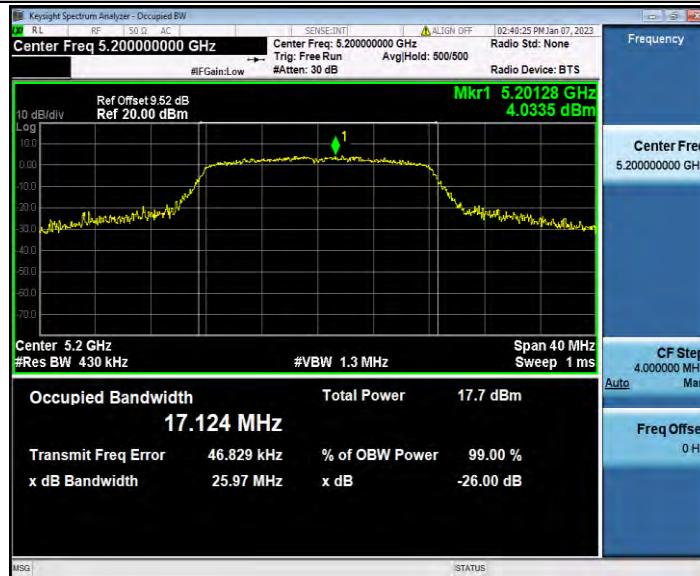
TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5180	17.134	5171.509	5188.643	---	---
		5200	17.124	5191.485	5208.609	---	---
		5240	17.088	5231.501	5248.589	---	---
11N20SISO	Ant2	5180	18.026	5171.060	5189.086	---	---
		5200	18.072	5191.001	5209.073	---	---
		5240	18.063	5231.004	5249.067	---	---
11N40SISO	Ant2	5190	36.724	5171.802	5208.526	---	---
		5230	36.699	5211.809	5248.508	---	---
11AC20SISO	Ant2	5180	17.937	5171.115	5189.052	---	---
		5200	18.105	5190.978	5209.083	---	---
		5240	18.100	5231.009	5249.109	---	---
11AC40SISO	Ant2	5190	36.498	5171.897	5208.395	---	---
		5230	36.493	5211.900	5248.393	---	---
11AC80SISO	Ant2	5210	75.412	5172.499	5247.911	---	---

Test Graphs

11A_Ant2_5180



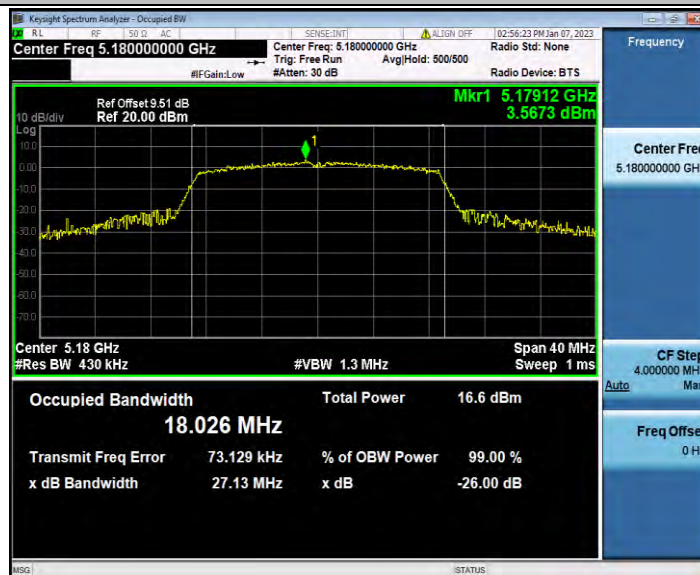
11A_Ant2_5200



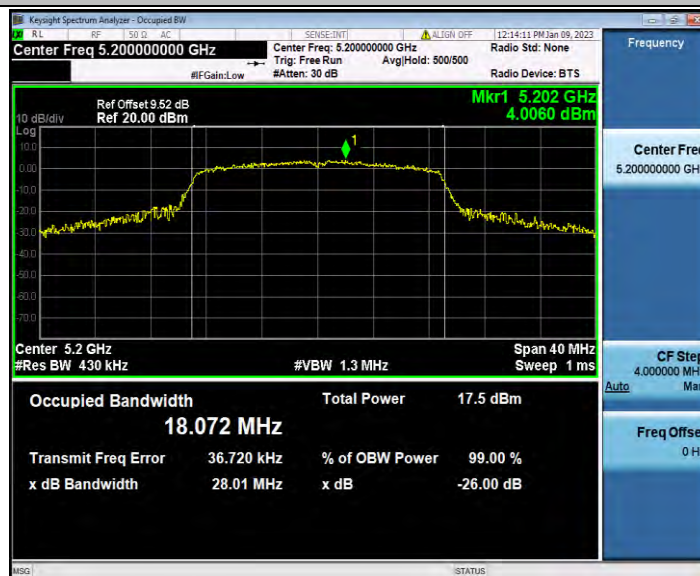
11A_Ant2_5240



11N20SISO_Ant2_5180



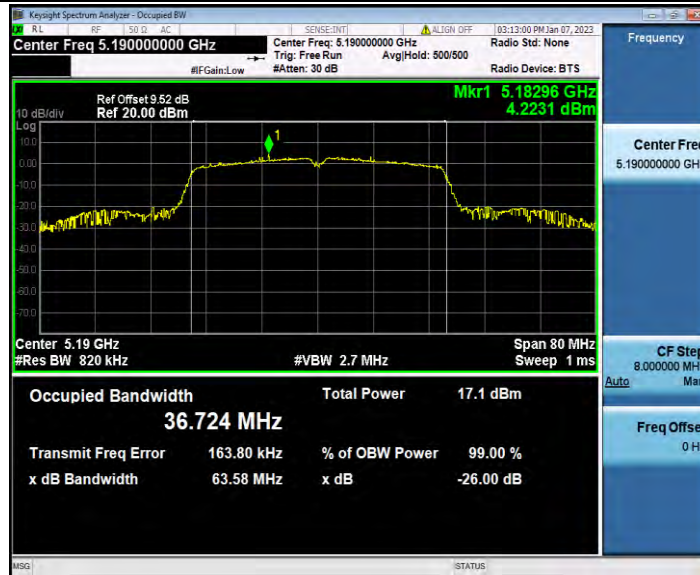
11N20SISO_Ant2_5200



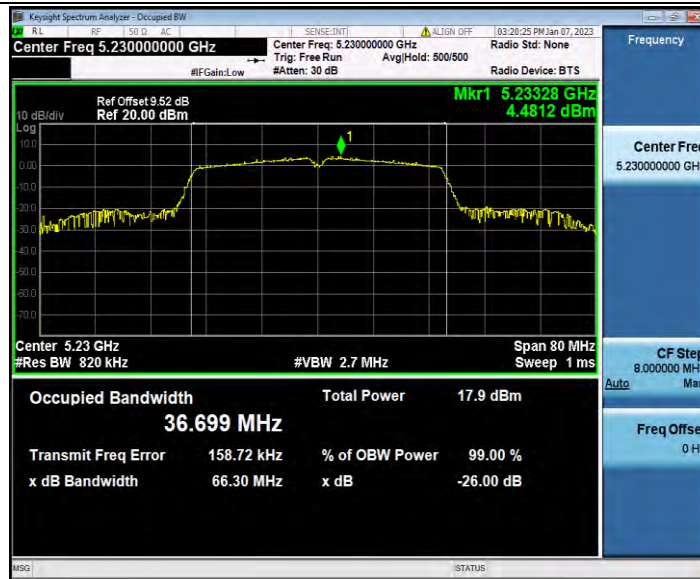
11N20SISO_Ant2_5240



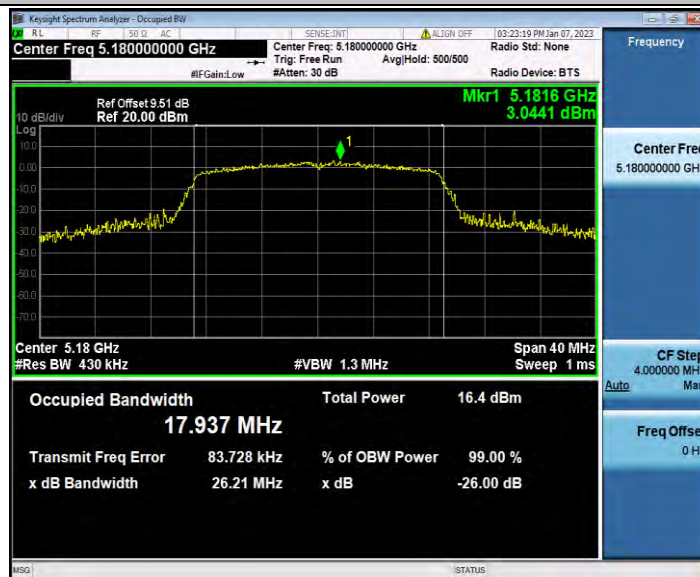
11N40SISO_Ant2_5190



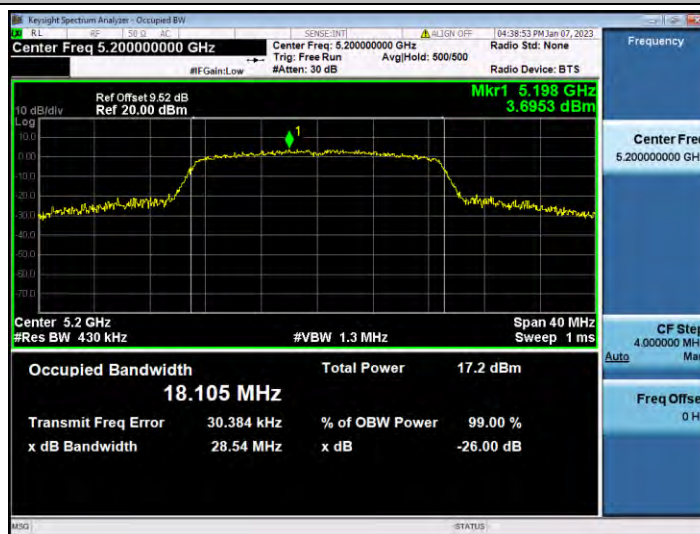
11N40SISO_Ant2_5230



11AC20SISO_Ant2_5180



11AC20SISO_Ant2_5200



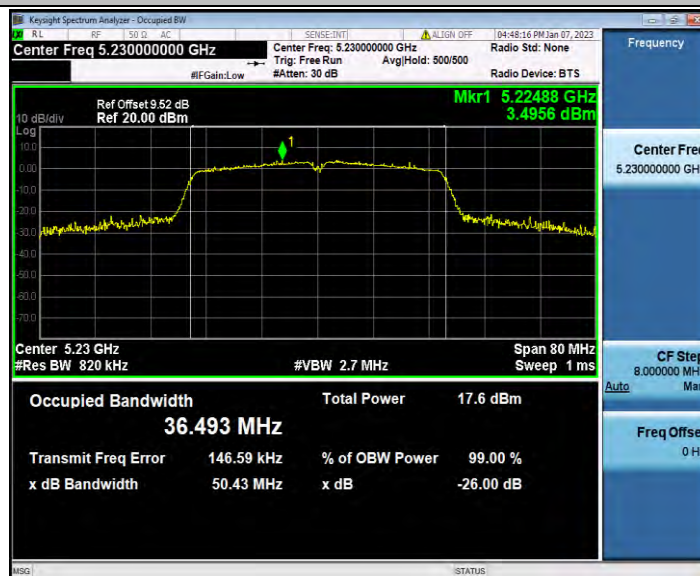
11AC20SISO_Ant2_5240



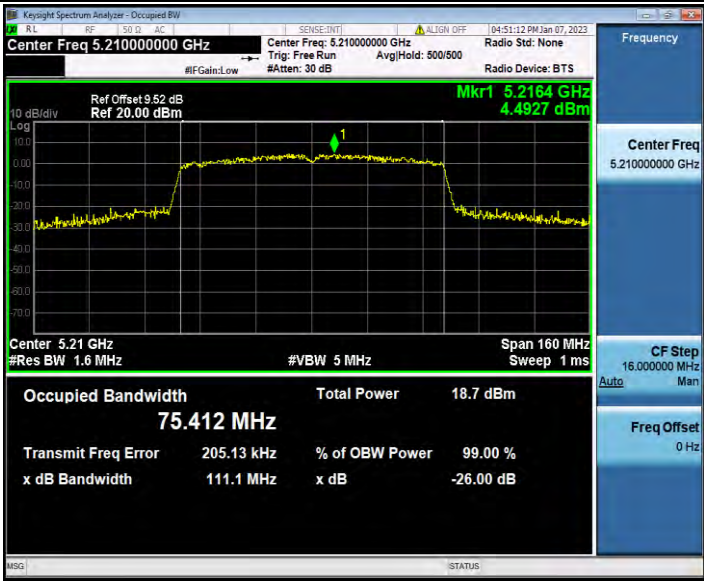
11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



11AC80SISO_Ant2_5210



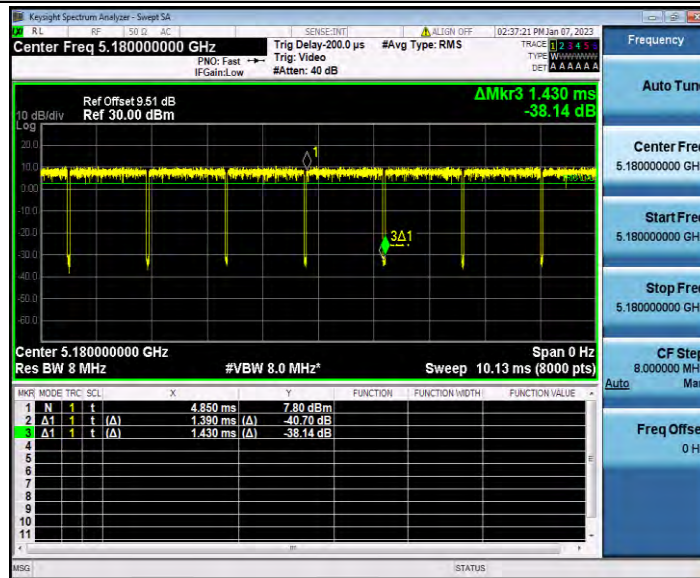
Appendix D.3: Duty Cycle

Test Result

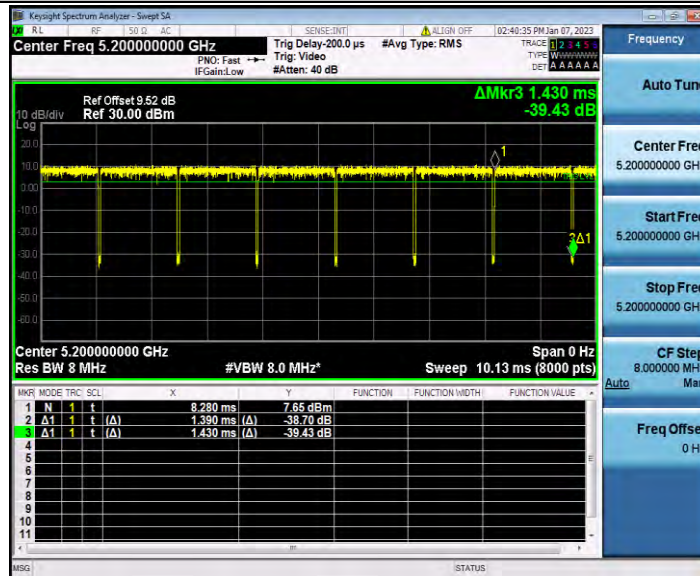
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant2	5180	1.39	1.43	97.20
		5200	1.39	1.43	97.20
		5240	1.39	1.44	96.53
11N20SISO	Ant2	5180	1.30	1.34	97.01
		5200	1.30	1.34	97.01
		5240	1.30	1.34	97.01
11N40SISO	Ant2	5190	0.65	0.69	94.20
		5230	0.65	0.70	92.86
11AC20SISO	Ant2	5180	1.31	1.35	97.04
		5200	1.31	1.36	96.32
		5240	1.31	1.35	97.04
11AC40SISO	Ant2	5190	0.65	0.70	92.86
		5230	0.65	0.70	92.86
11AC80SISO	Ant2	5210	0.32	0.37	86.49

Test Graphs

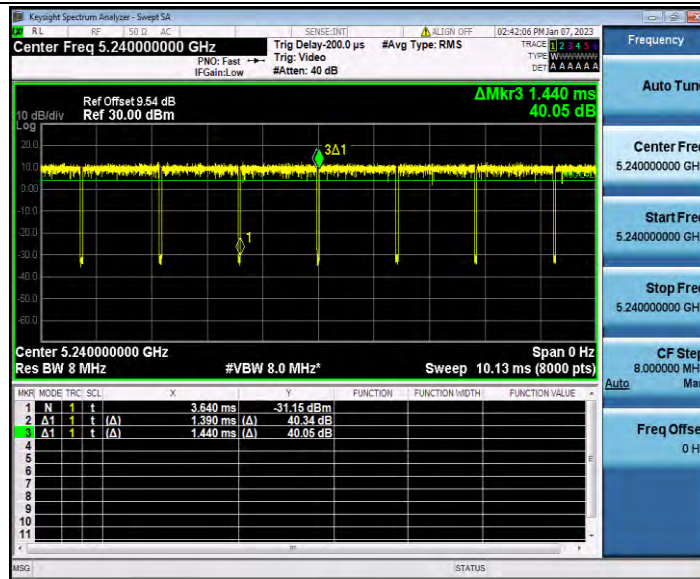
11A_Ant2_5180



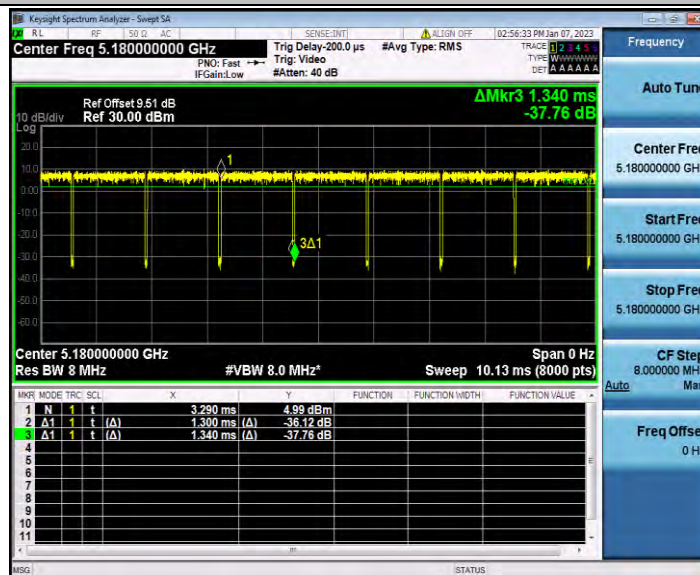
11A_Ant2_5200



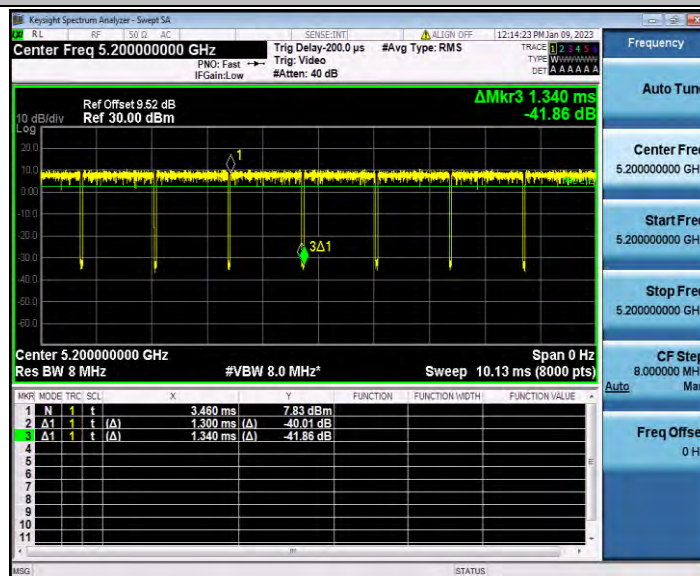
11A_Ant2_5240



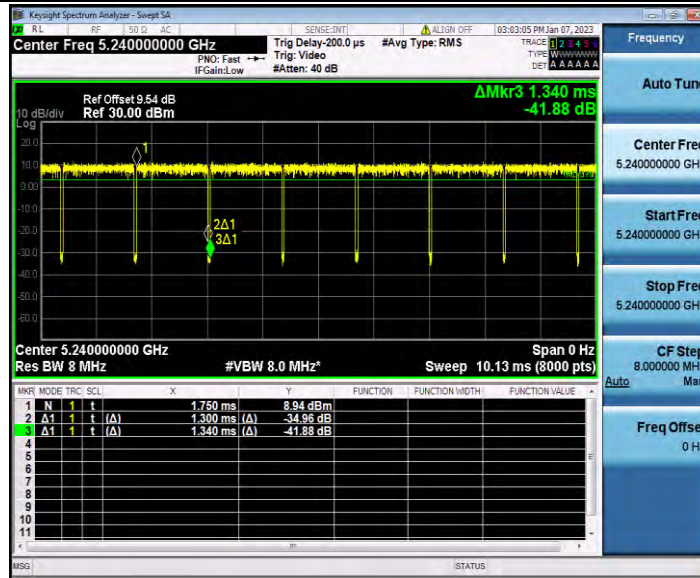
11N20SISO_Ant2_5180



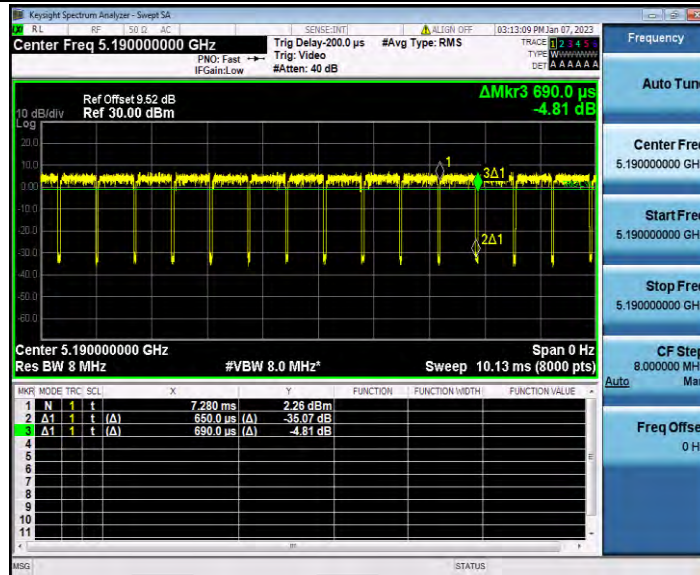
11N20SISO_Ant2_5200



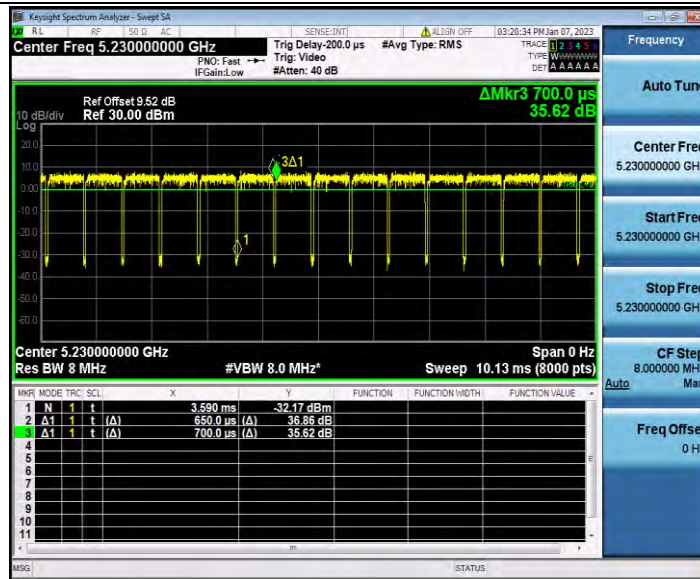
11N20SISO_Ant2_5240



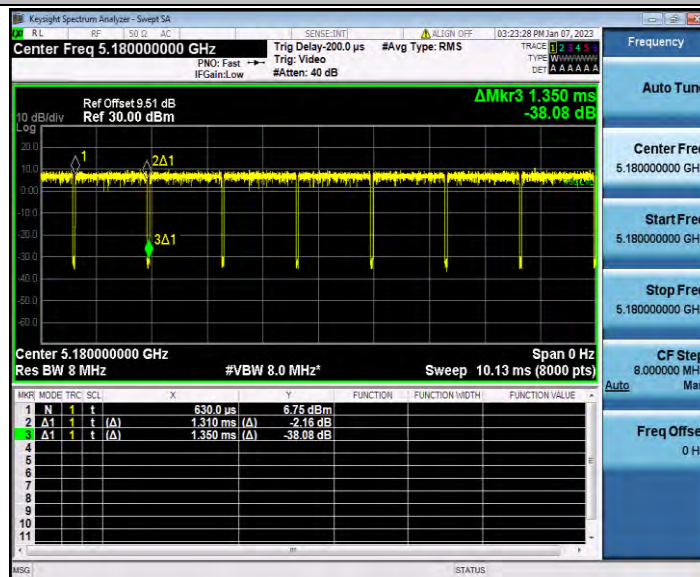
11N40SISO_Ant2_5190



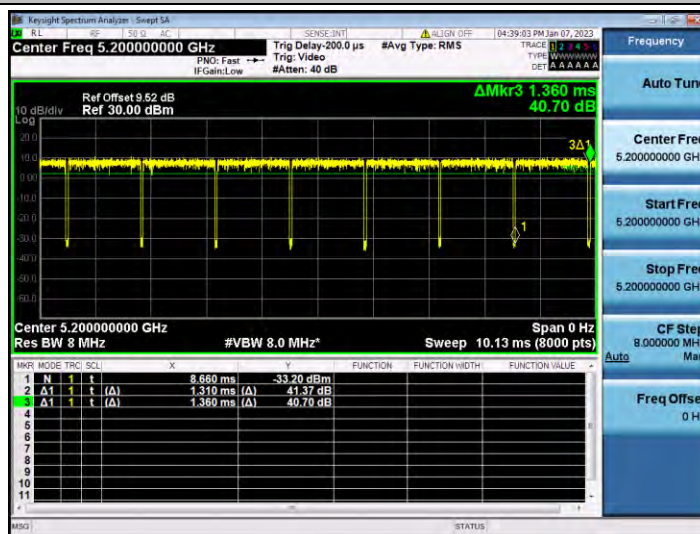
11N40SISO_Ant2_5230



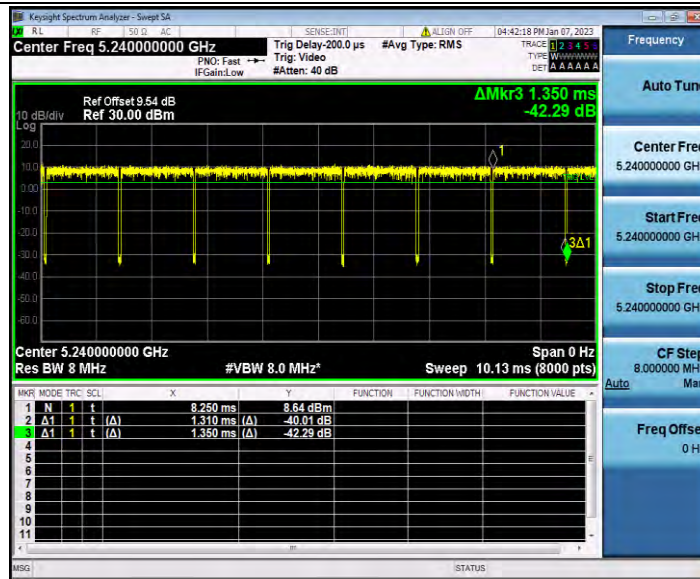
11AC20SISO_Ant2_5180



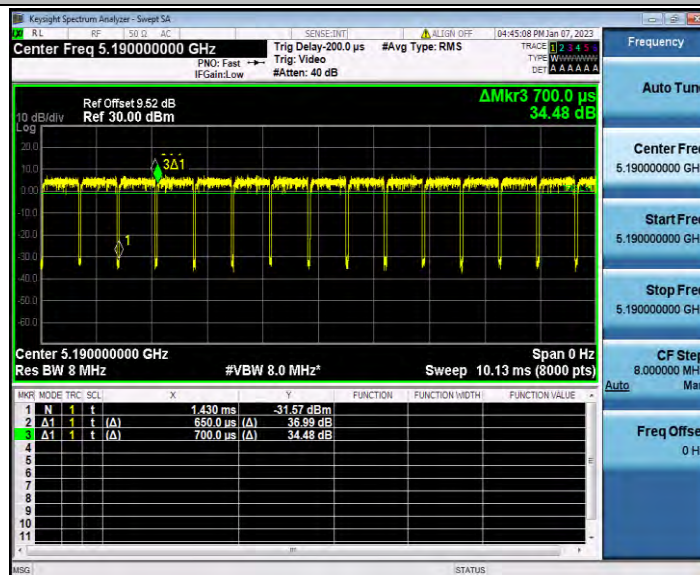
11AC20SISO_Ant2_5200



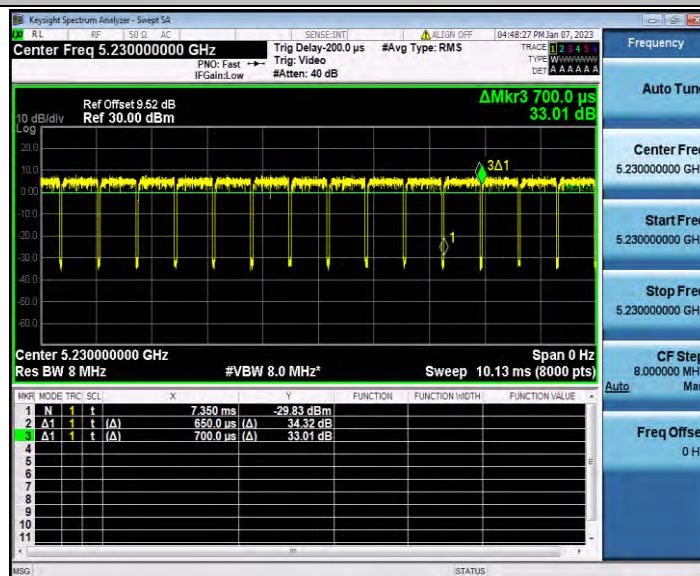
11AC20SISO_Ant2_5240



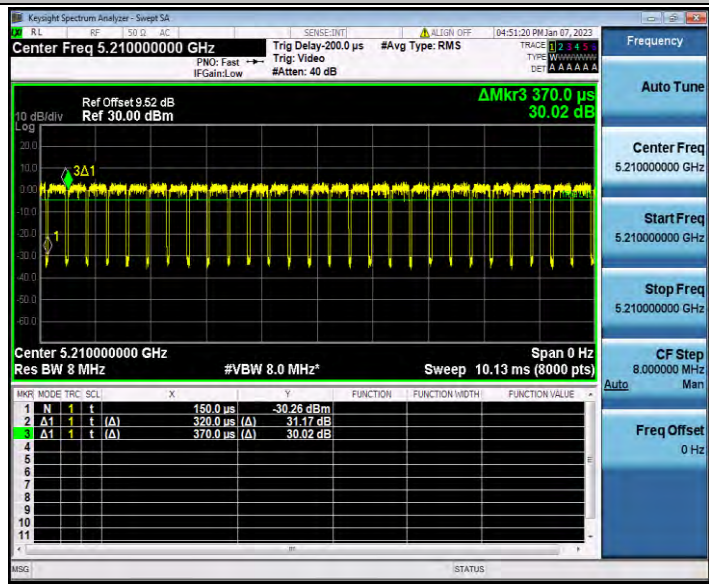
11AC40SISO_Ant2_5190



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	10.28	97.20	0.12	10.40	≤23.98	PASS
		5200	10.67	97.20	0.12	10.79	≤23.98	PASS
		5240	11.26	96.53	0.15	11.41	≤23.98	PASS
11N20SISO	Ant2	5180	9.65	97.01	0.13	9.78	≤23.98	PASS
		5200	10.55	97.01	0.13	10.68	≤23.98	PASS
		5240	11.13	97.01	0.13	11.26	≤23.98	PASS
11N40SISO	Ant2	5190	9.56	94.20	0.26	9.82	≤23.98	PASS
		5230	10.25	92.86	0.32	10.57	≤23.98	PASS
11AC20SISO	Ant2	5180	9.58	97.04	0.13	9.71	≤23.98	PASS
		5200	10.38	96.32	0.16	10.54	≤23.98	PASS
		5240	10.95	97.04	0.13	11.08	≤23.98	PASS
11AC40SISO	Ant2	5190	9.62	92.86	0.32	9.94	≤23.98	PASS
		5230	10.00	92.86	0.32	10.32	≤23.98	PASS
11AC80SISO	Ant2	5210	9.23	86.49	0.63	9.86	≤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	Ant2	5180	-0.16	≤11.00	PASS
		5200	0.18	≤11.00	PASS
		5240	0.94	≤11.00	PASS
11N20SISO	Ant2	5180	-1.01	≤11.00	PASS
		5200	-0.16	≤11.00	PASS
		5240	0.62	≤11.00	PASS
11N40SISO	Ant2	5190	-3.66	≤11.00	PASS
		5230	-2.65	≤11.00	PASS
11AC20SISO	Ant2	5180	-1.09	≤11.00	PASS
		5200	-0.47	≤11.00	PASS
		5240	0.35	≤11.00	PASS
11AC40SISO	Ant2	5190	-3.61	≤11.00	PASS
		5230	-3.08	≤11.00	PASS
11AC80SISO	Ant2	5210	-6.8	≤11.00	PASS

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

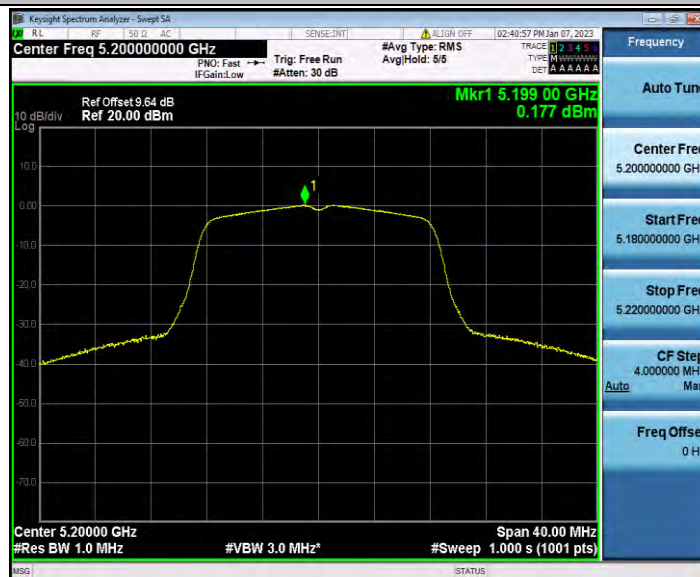
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

11A_Ant2_5180



11A_Ant2_5200



11A_Ant2_5240



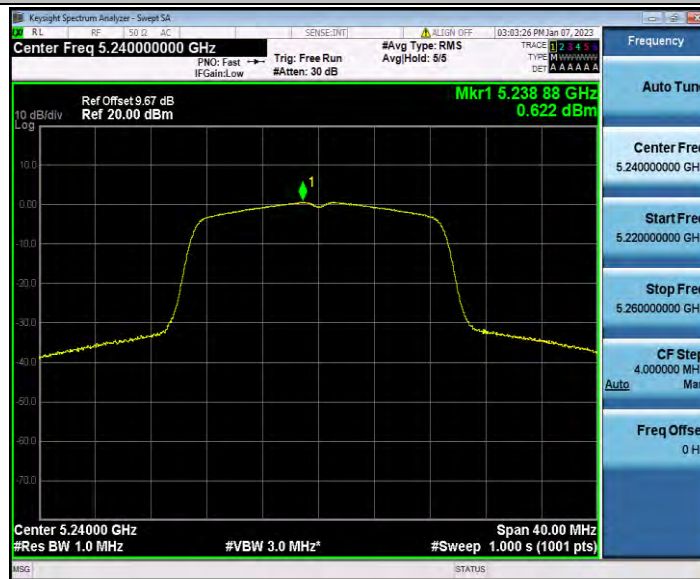
11N20SISO_Ant2_5180



11N20SISO_Ant2_5200



11N20SISO_Ant2_5240



11N40SISO_Ant2_5190



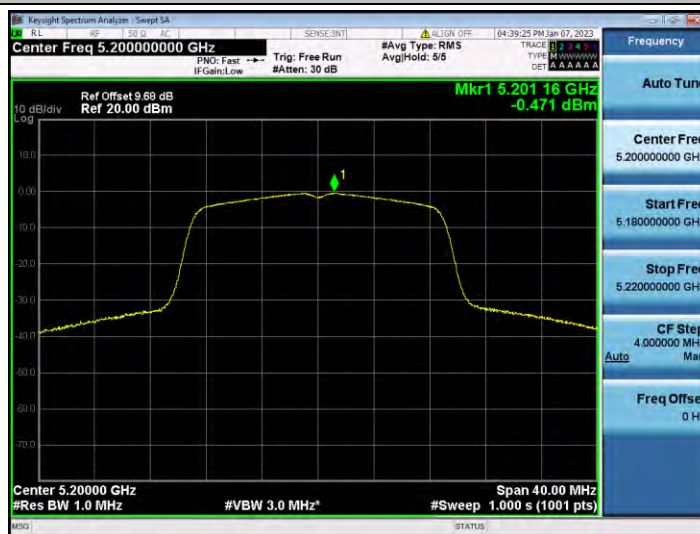
11N40SISO_Ant2_5230



11AC20SISO_Ant2_5180



11AC20SISO_Ant2_5200



11AC20SISO_Ant2_5240



11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



11AC80SISO_Ant2_5210



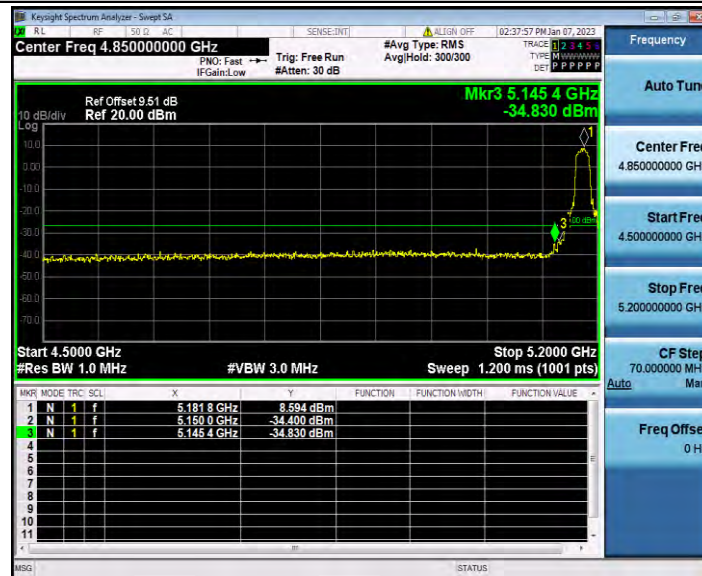
Appendix D.6: Band edge measurements

Test Result B1

TestMode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant2	Low	5180	-34.83	≤-27	PASS
		High	5240	-37.71	≤-27	PASS
11N20SISO	Ant2	Low	5180	-37.17	≤-27	PASS
		High	5240	-38.29	≤-27	PASS
11N40SISO	Ant2	Low	5190	-28.71	≤-27	PASS
		High	5230	-37.97	≤-27	PASS
11AC20SISO	Ant2	Low	5180	-37.16	≤-27	PASS
		High	5240	-37.87	≤-27	PASS
11AC40SISO	Ant2	Low	5190	-37.51	≤-27	PASS
		High	5230	-38.21	≤-27	PASS
11AC80SISO	Ant2	Low	5210	-28.81	≤-27	PASS
		High	5210	-37.7	≤-27	PASS

Test Graphs B1/2/3

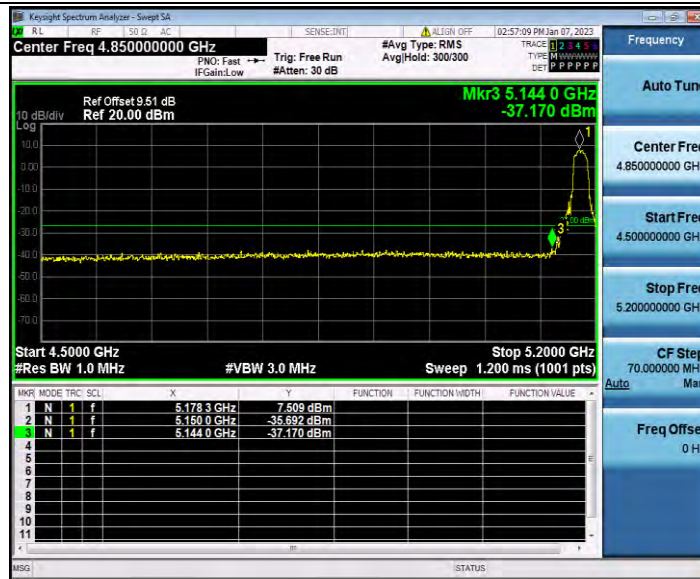
11A_Ant2_Low_5180



11A_Ant2_High_5240



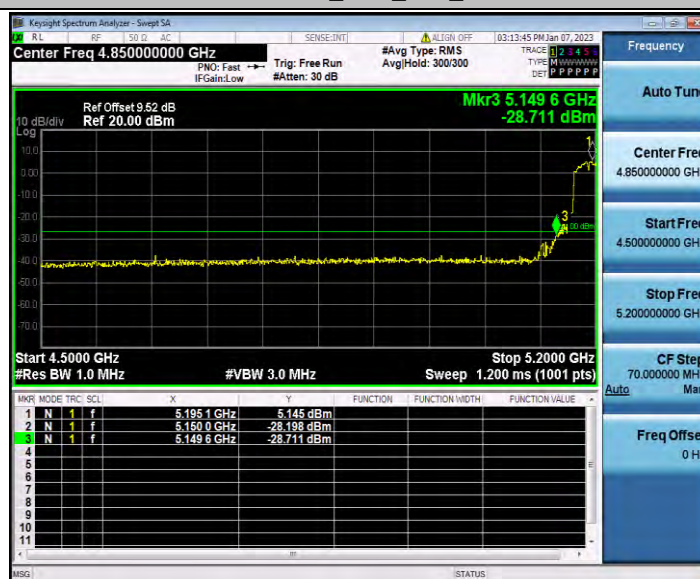
11N20SISO_Ant2_Low_5180



11N20SISO_Ant2_High_5240



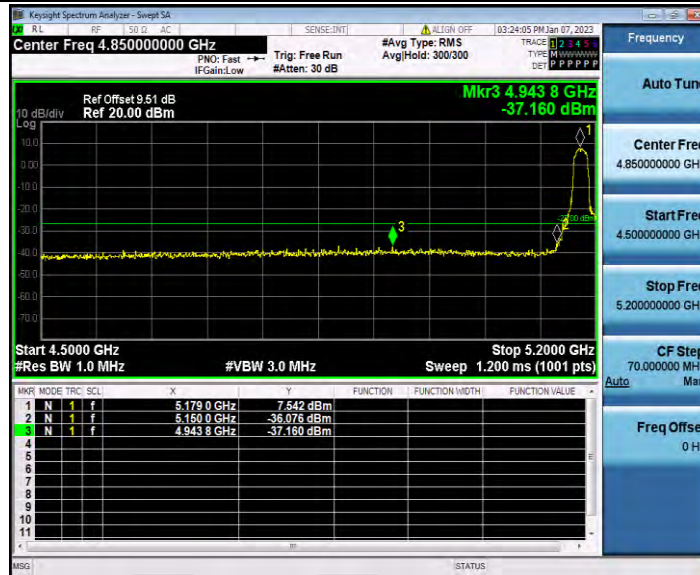
11N40SISO_Ant2_Low_5190



11N40SISO_Ant2_High_5230



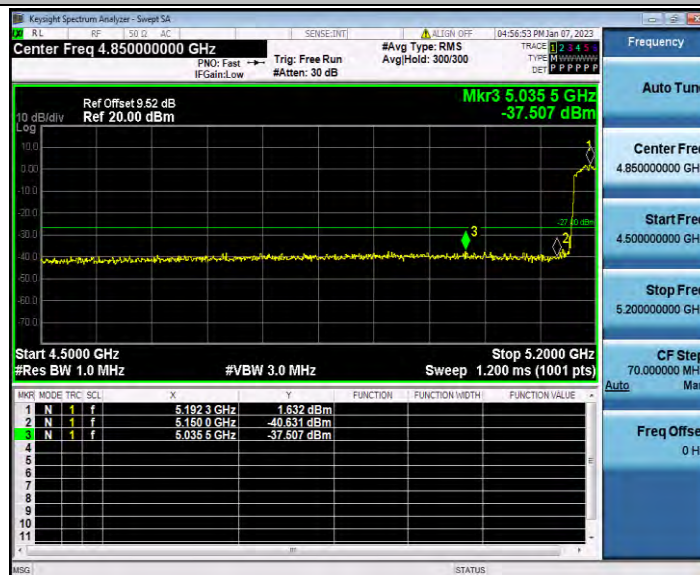
11AC20SISO_Ant2_Low_5180



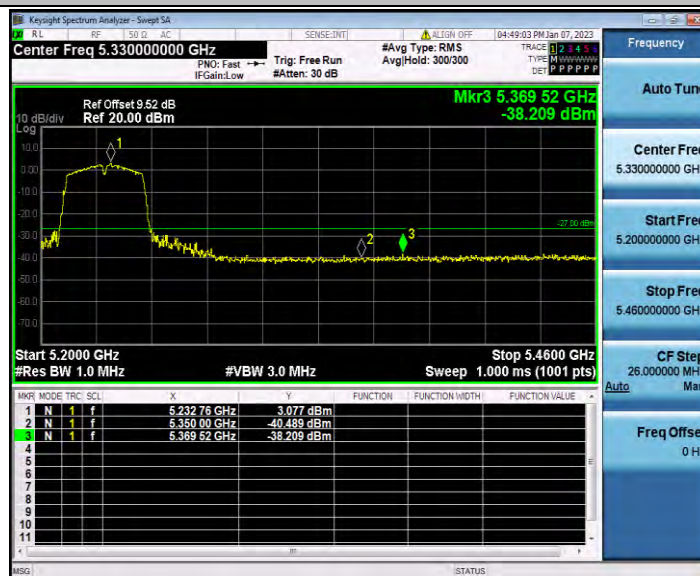
11AC20SISO_Ant2_High_5240



11AC40SISO_Ant2_Low_5190



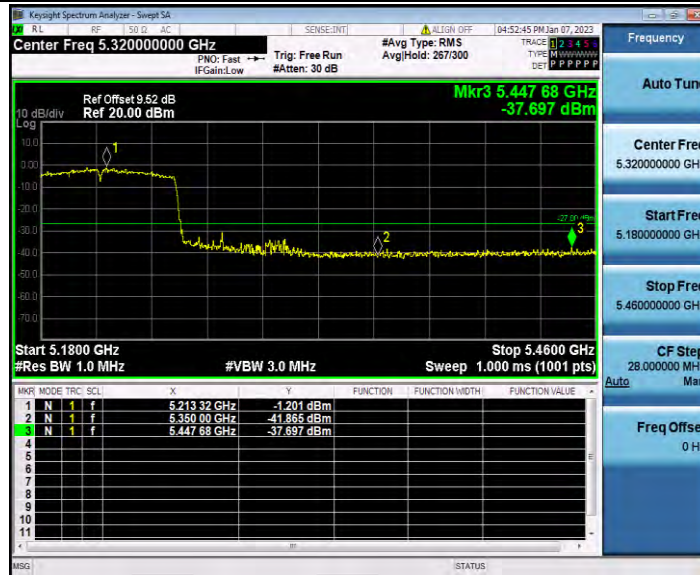
11AC40SISO_Ant2_High_5230



11AC80SISO_Ant2_Low_5210



11AC80SISO_Ant2_High_5210



Appendix D.7: Conducted Spurious Emission

Test Result

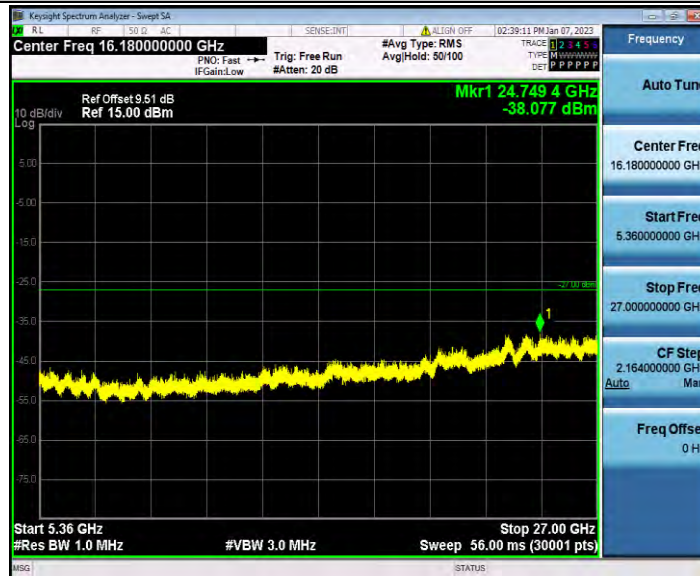
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant2	5180	30~5140	5138.64	-44.77	≤-27	PASS
			5360~40000	24749.44	-38.08	≤-27	PASS
		5200	30~5140	5125.69	-46.23	≤-27	PASS
			5360~40000	26868	-38.18	≤-27	PASS
		5240	30~5140	4789.62	-46.69	≤-27	PASS
			5360~40000	26013.22	-37.82	≤-27	PASS
11N20SISO	Ant2	5180	30~5140	5137.27	-44.92	≤-27	PASS
			5360~40000	24291.39	-36.8	≤-27	PASS
		5200	30~5140	5014.29	-46.72	≤-27	PASS
			5360~40000	24186.08	-39.09	≤-27	PASS
		5240	30~5140	4968.64	-45.99	≤-27	PASS
			5360~40000	24279.13	-37.52	≤-27	PASS
11N40SISO	Ant2	5190	30~5140	5138.47	-42.7	≤-27	PASS
			5360~40000	25259.42	-37.9	≤-27	PASS
		5230	30~5140	5121.77	-46.33	≤-27	PASS
			5360~40000	24221.42	-37.35	≤-27	PASS
11AC20SISO	Ant2	5180	30~5140	5138.47	-43.97	≤-27	PASS
			5360~40000	24239.46	-37.35	≤-27	PASS
		5200	30~5140	4978.52	-46.98	≤-27	PASS
			5360~40000	24159.39	-37.61	≤-27	PASS
		5240	30~5140	4909.03	-47.05	≤-27	PASS
			5360~40000	24837.44	-37.68	≤-27	PASS
11AC40SISO	Ant2	5190	30~5140	5140	-38.96	≤-27	PASS
			5360~40000	26513.1	-38.08	≤-27	PASS
		5230	30~5140	4990.79	-46.89	≤-27	PASS
			5360~40000	24190.41	-38.62	≤-27	PASS
11AC80SISO	Ant2	5210	30~5140	5117.18	-40.35	≤-27	PASS
			5360~40000	25107.22	-38.25	≤-27	PASS

Test Graphs

11A_Ant2_5180_30~5140



11A_Ant2_5180_5360~40000



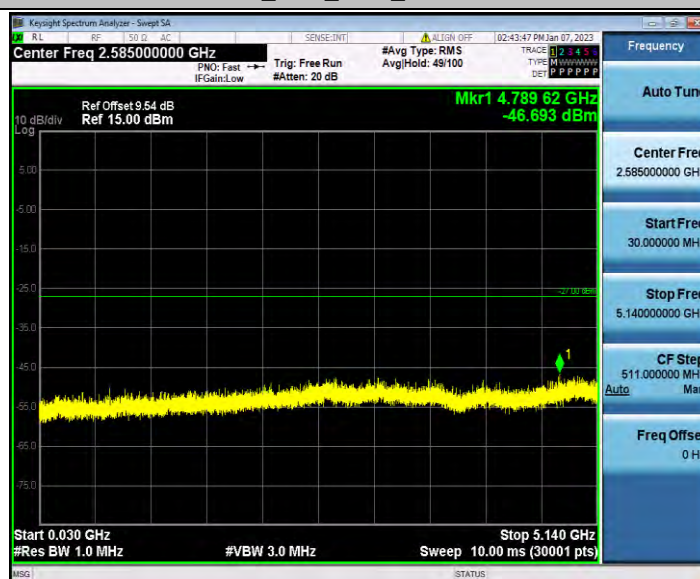
11A_Ant2_5200_30~5140



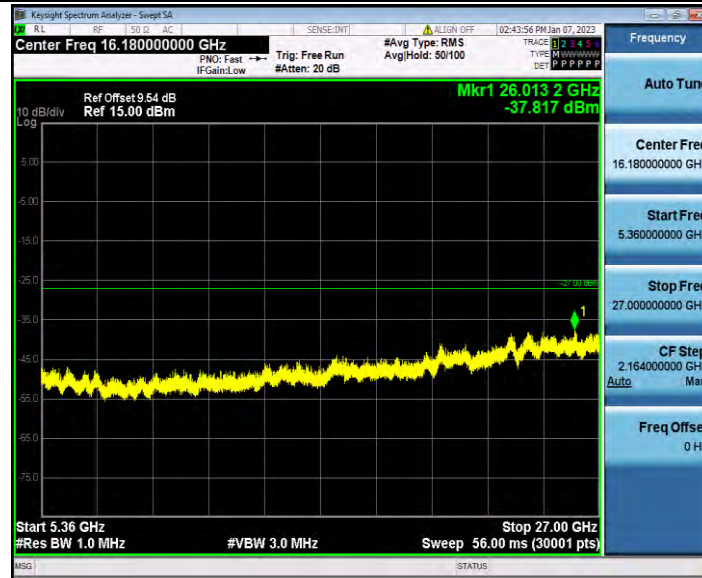
11A_Ant2_5200_5360~40000



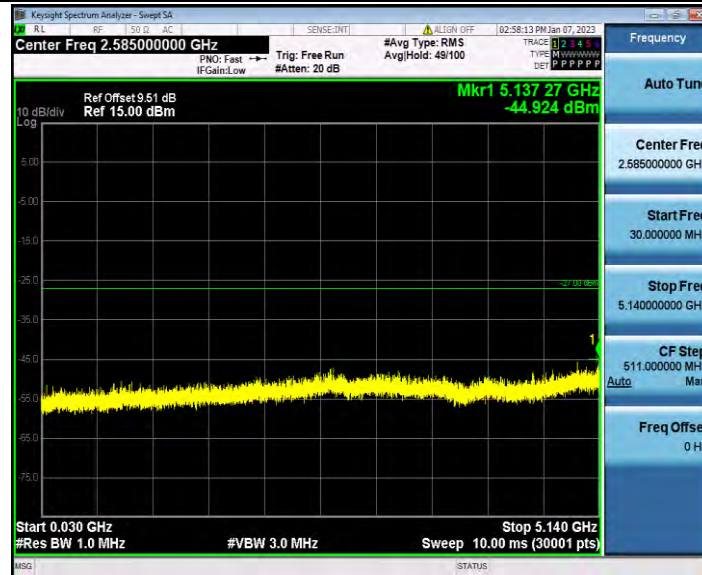
11A_Ant2_5240_30~5140



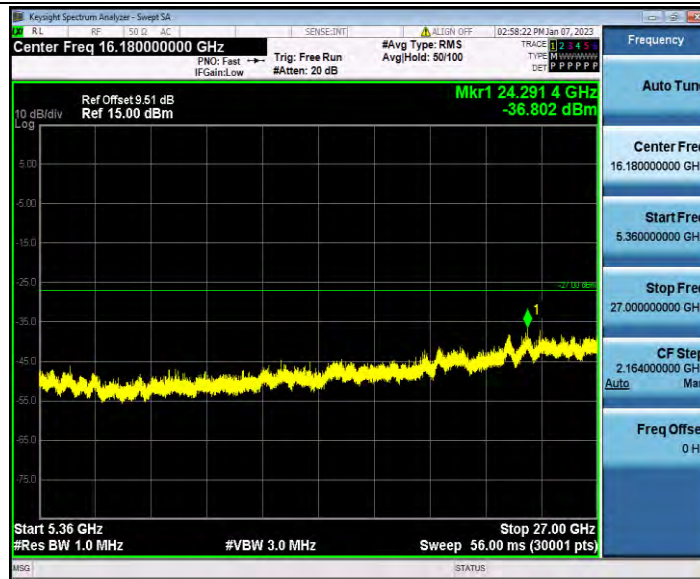
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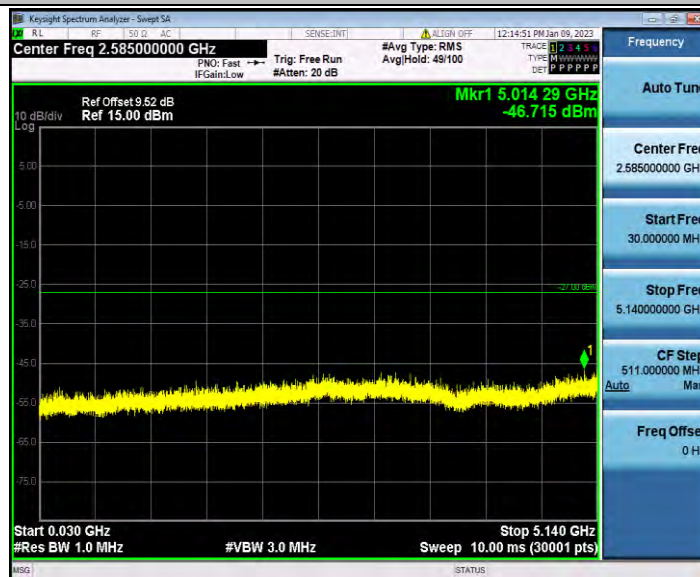
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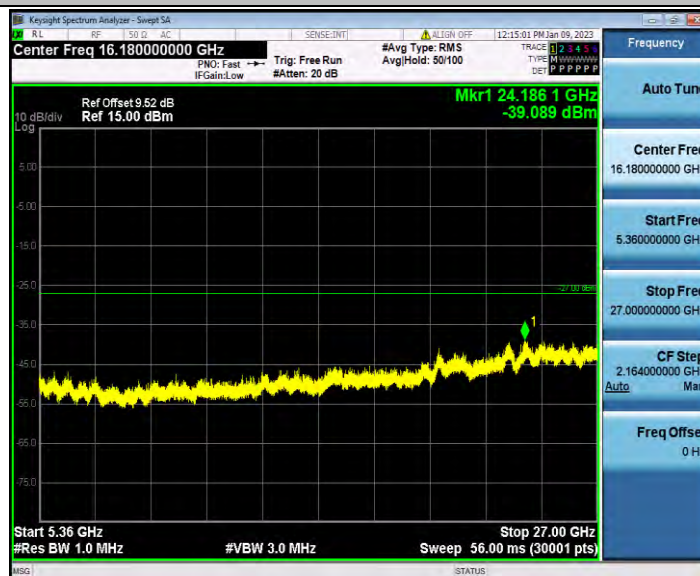
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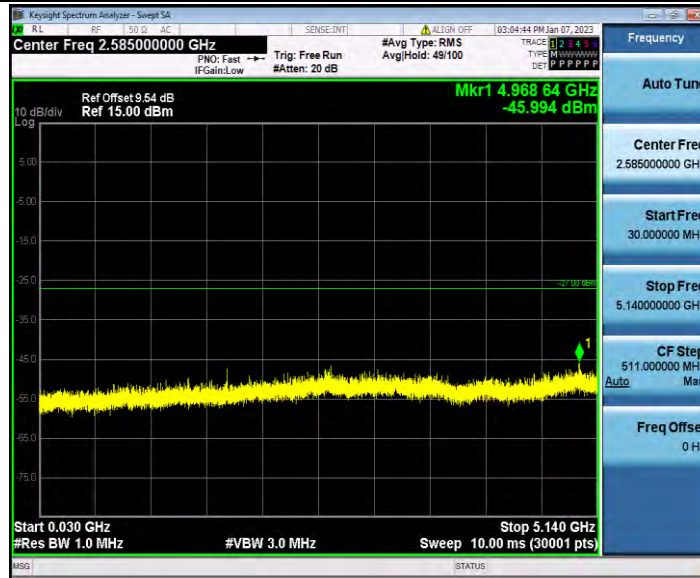
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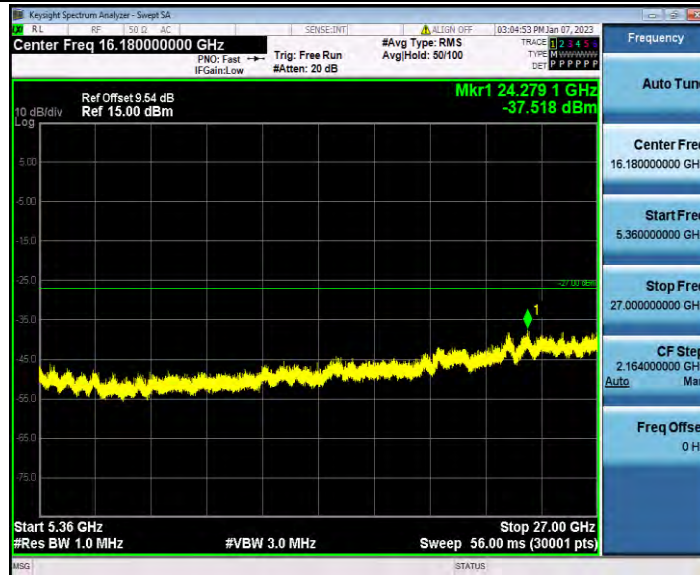
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11N20SISO_Ant2_5240_30~5140



11N20SISO_Ant2_5240_5360~40000



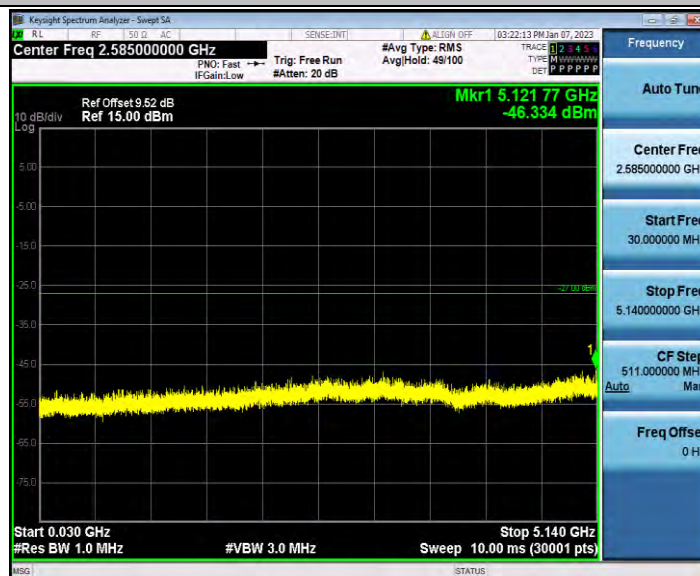
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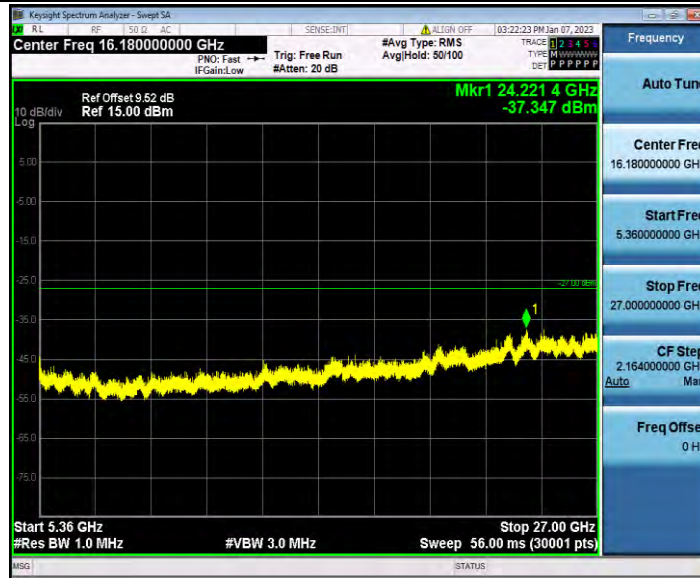
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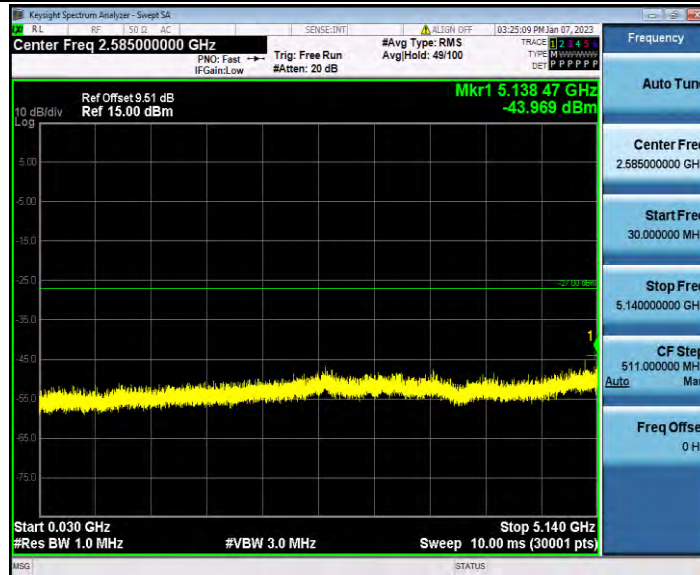
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11N40SISO_Ant2_5230_5360~40000



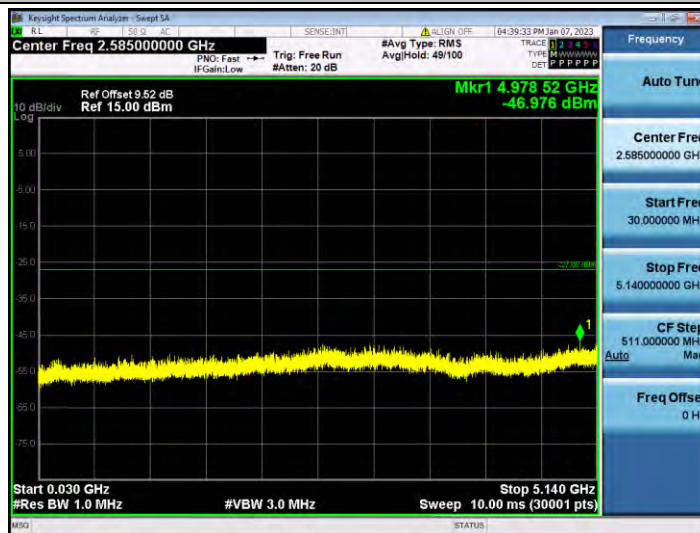
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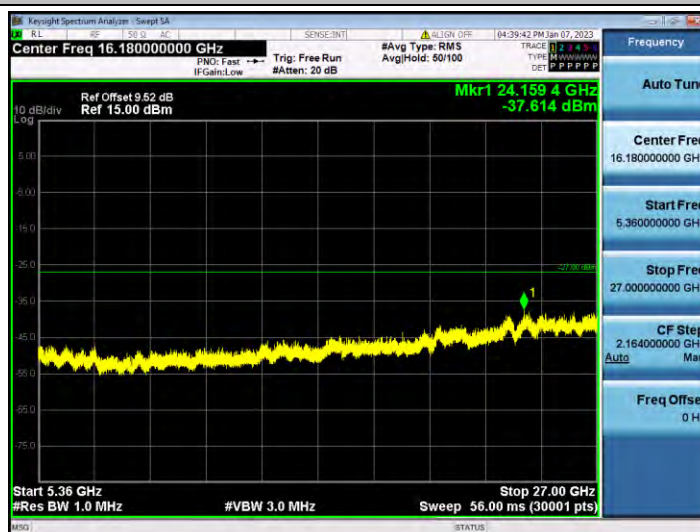
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11AC20SISO_Ant2_5200_30~5140



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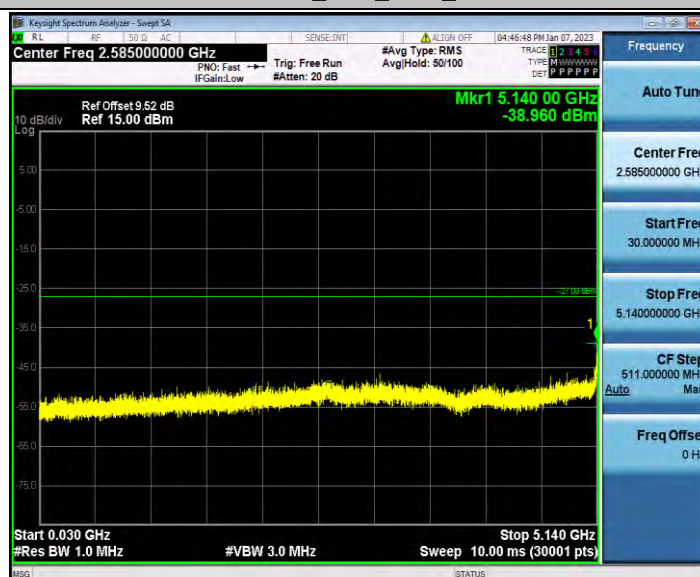
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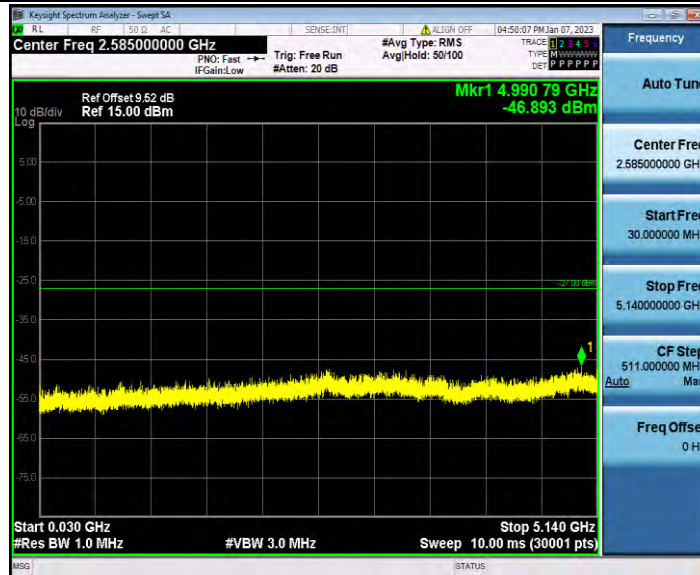
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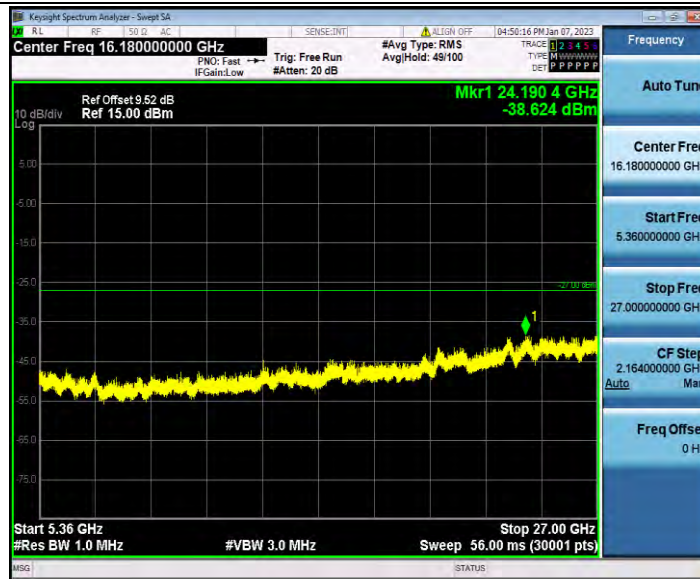
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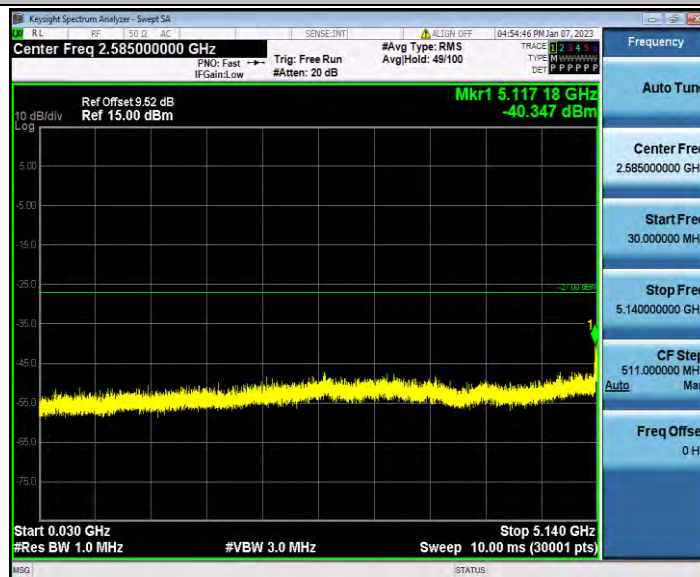
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11AC40SISO_Ant2_5230_5360~40000



11AC80SISO_Ant2_5210_30~5140



11AC80SISO_Ant2_5210_5360~40000

