

Case No. : <u>GTS20230224006-1-4</u>
Ambient Condition: <u>25</u> °C, <u>45</u> %RH, Atmos100.1Kpa,
Test Date: <u>2023.3.17</u> Test Engineer: <u>Jenny zeng</u>

Appendix D.1: Emission Bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5180	22.400	5168.560	5190.960	---	---
		5200	21.640	5189.040	5210.680	---	---
		5240	21.560	5228.960	5250.520	---	---
11N20SISO	Ant2	5180	23.080	5168.240	5191.320	---	---
		5200	22.640	5188.360	5211.000	---	---
		5240	22.480	5228.480	5250.960	---	---
11N40SISO	Ant2	5190	41.440	5169.360	5210.800	---	---
		5230	41.040	5209.360	5250.400	---	---
11AC20SISO	Ant2	5180	22.200	5168.600	5190.800	---	---
		5200	21.720	5189.200	5210.920	---	---
		5240	22.320	5228.560	5250.880	---	---
11AC40SISO	Ant2	5190	42.160	5169.040	5211.200	---	---
		5230	41.600	5209.200	5250.800	---	---
11AC80SISO	Ant2	5210	126.080	5152.880	5278.960	---	---

Test Graphs





11N20SISO_Ant2_5180



11N20SISO_Ant2_5200



11N20SISO_Ant2_5240



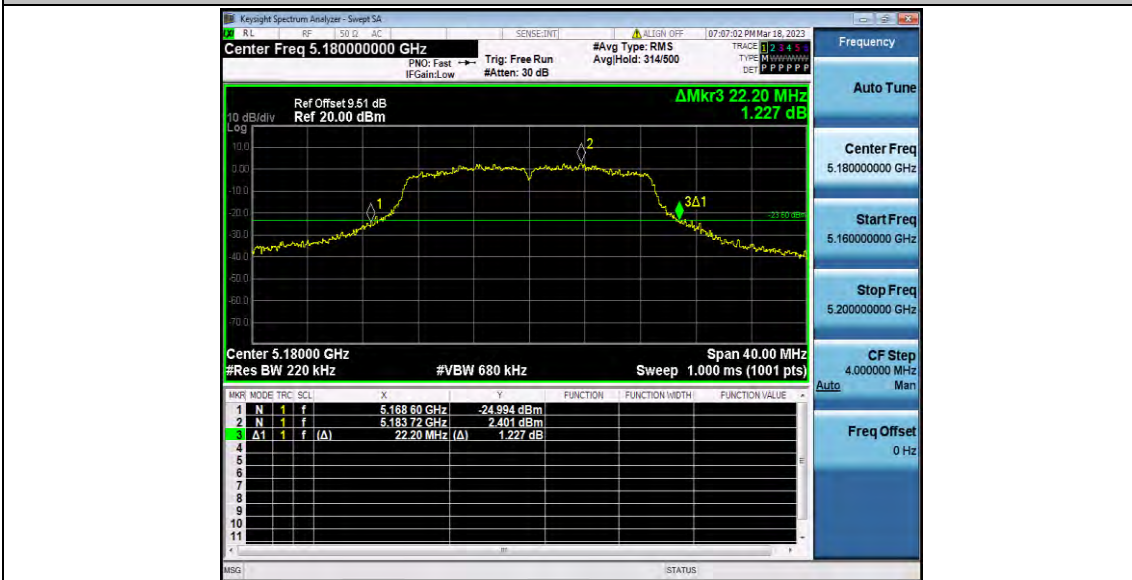
11N40SISO_Ant2_5190



11N40SISO_Ant2_5230



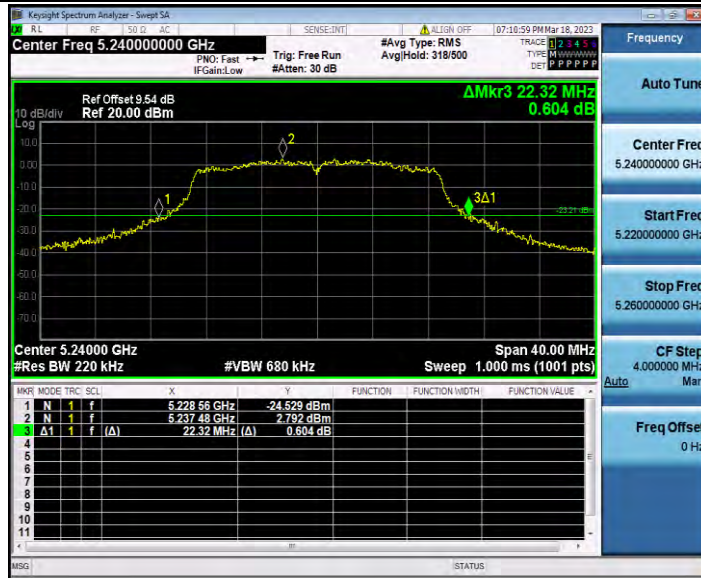
11AC20SISO_Ant2_5180



11AC20SISO_Ant2_5200



11AC20SISO_Ant2_5240



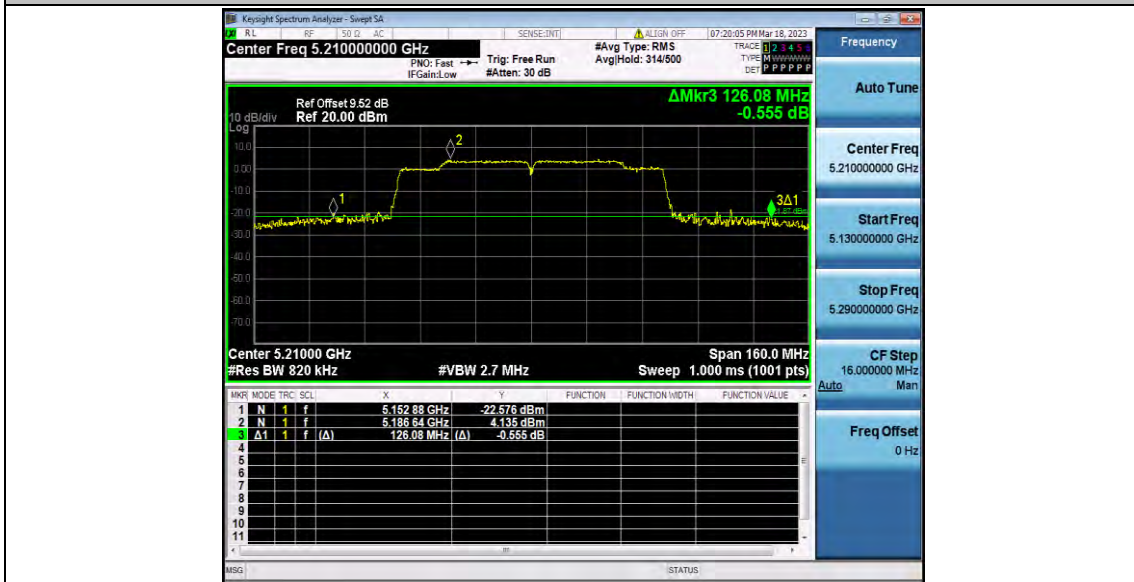
11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



11AC80SISO_Ant2_5210

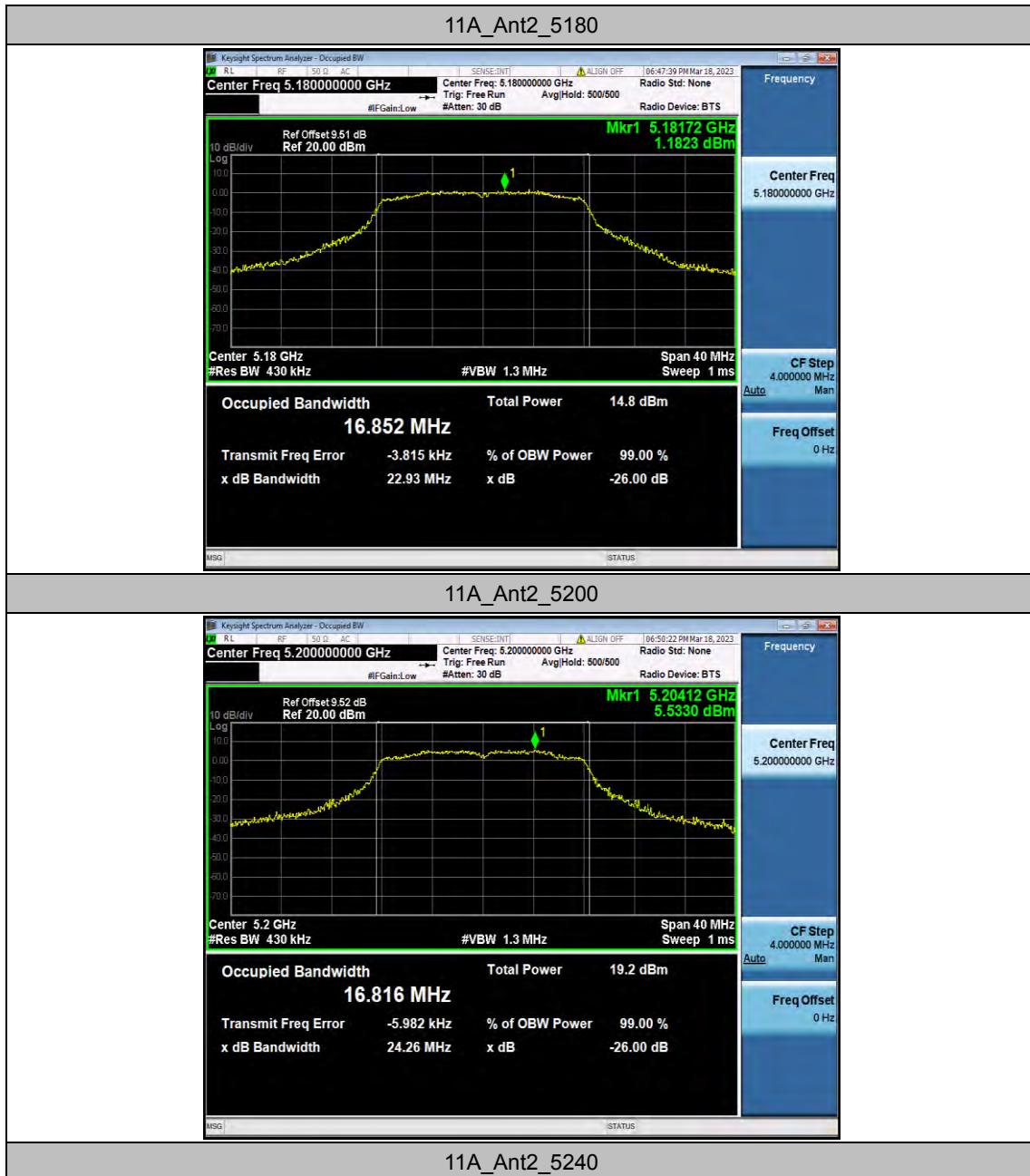


Appendix D.2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5180	16.852	5171.570	5188.422	---	---
		5200	16.816	5191.586	5208.402	---	---
		5240	16.854	5231.539	5248.393	---	---
11N20SISO	Ant2	5180	18.006	5171.002	5189.008	---	---
		5200	17.976	5190.995	5208.971	---	---
		5240	17.937	5231.010	5248.947	---	---
11N40SISO	Ant2	5190	36.290	5171.851	5208.141	---	---
		5230	36.279	5211.830	5248.109	---	---
11AC20SISO	Ant2	5180	17.993	5171.007	5189.000	---	---
		5200	17.985	5190.991	5208.976	---	---
		5240	18.011	5230.978	5248.989	---	---
11AC40SISO	Ant2	5190	36.322	5171.855	5208.177	---	---
		5230	36.306	5211.838	5248.144	---	---
11AC80SISO	Ant2	5210	75.625	5172.235	5247.860	---	---

Test Graphs





11N20SISO_Ant2_5180



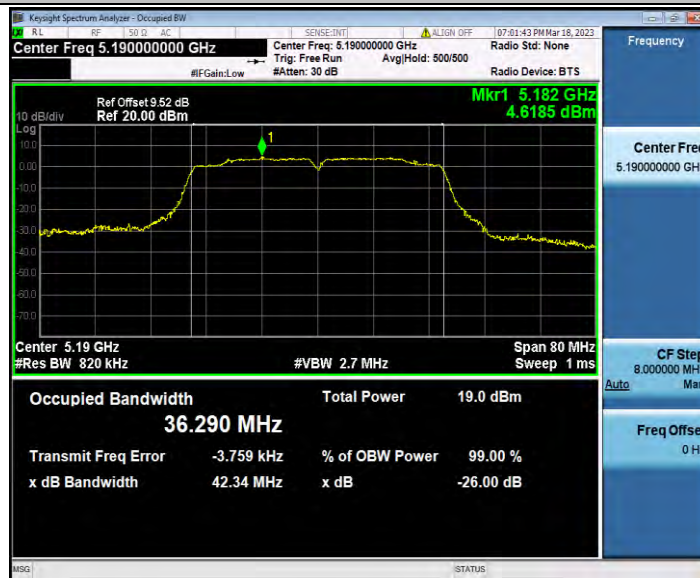
11N20SISO_Ant2_5200



11N20SISO_Ant2_5240



11N40SISO_Ant2_5190



11N40SISO_Ant2_5230



11AC20SISO_Ant2_5180



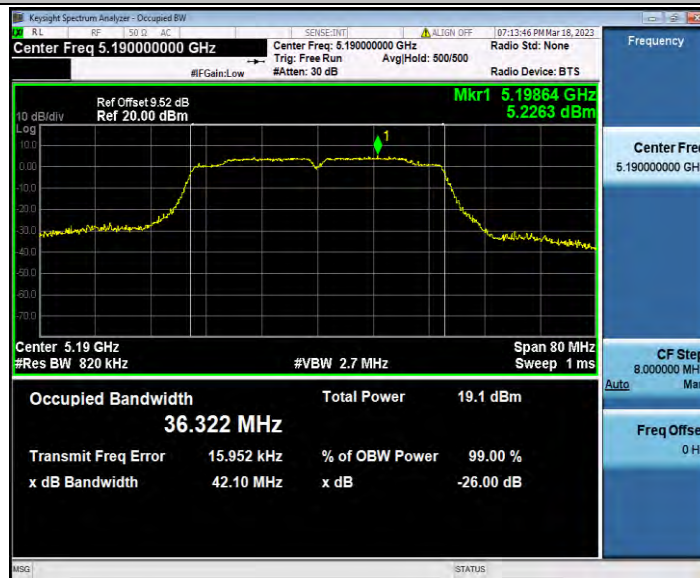
11AC20SISO_Ant2_5200



11AC20SISO_Ant2_5240



11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



11AC80SISO_Ant2_5210

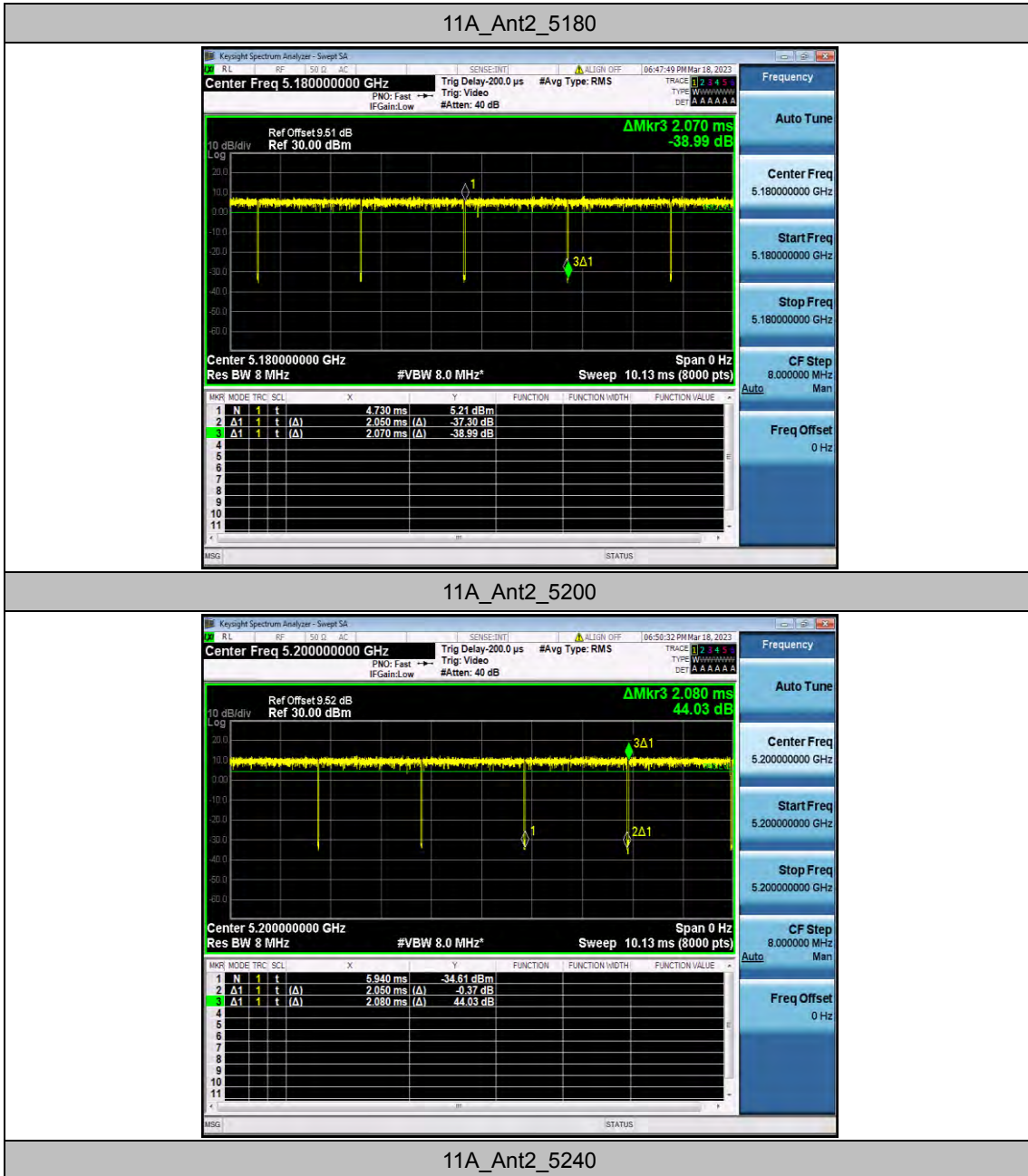


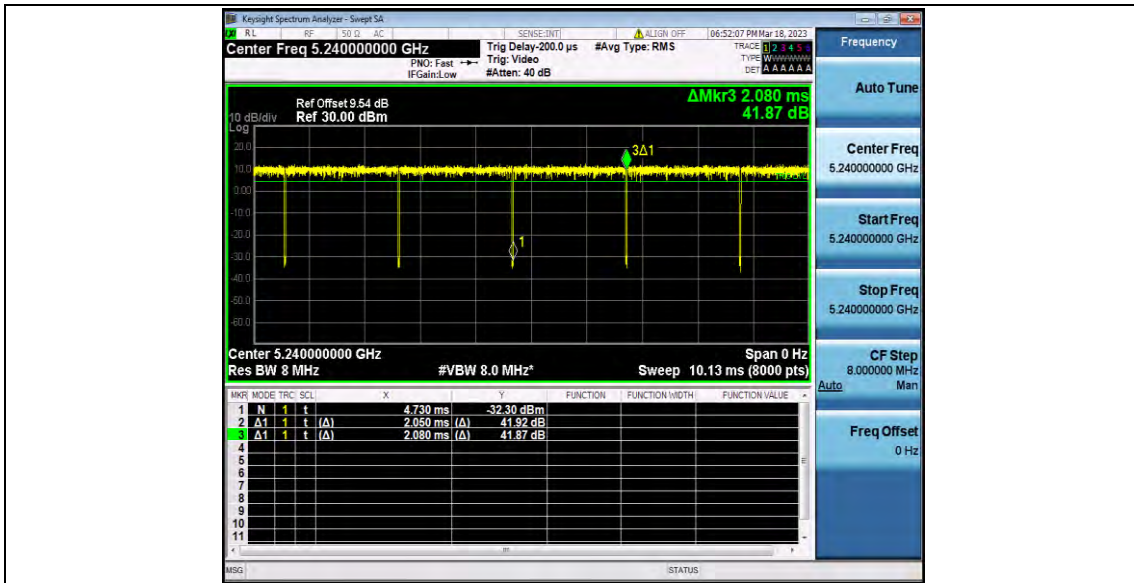
Appendix D.3: Duty Cycle

Test Result

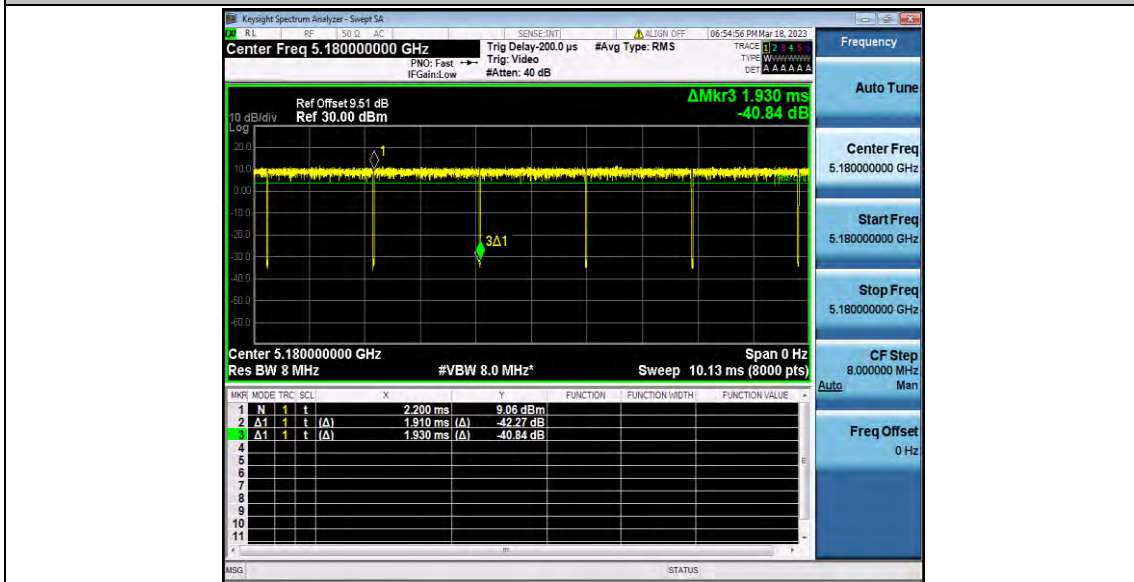
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant2	5180	2.05	2.07	99.03
		5200	2.05	2.08	98.56
		5240	2.05	2.08	98.56
11N20SISO	Ant2	5180	1.91	1.93	98.96
		5200	1.91	1.94	98.45
		5240	1.91	1.94	98.45
11N40SISO	Ant2	5190	0.93	0.96	96.88
		5230	0.93	0.96	96.88
11AC20SISO	Ant2	5180	1.92	1.95	98.46
		5200	1.92	1.95	98.46
		5240	1.92	1.95	98.46
11AC40SISO	Ant2	5190	0.95	0.97	97.94
		5230	0.95	0.98	96.94
11AC80SISO	Ant2	5210	0.43	0.46	93.48

Test Graphs

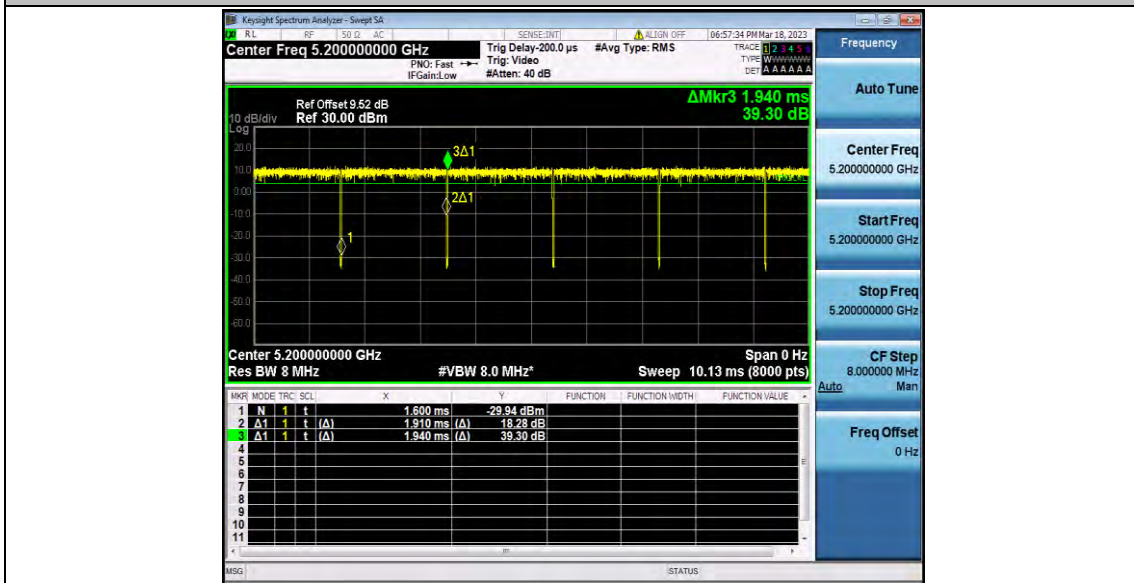




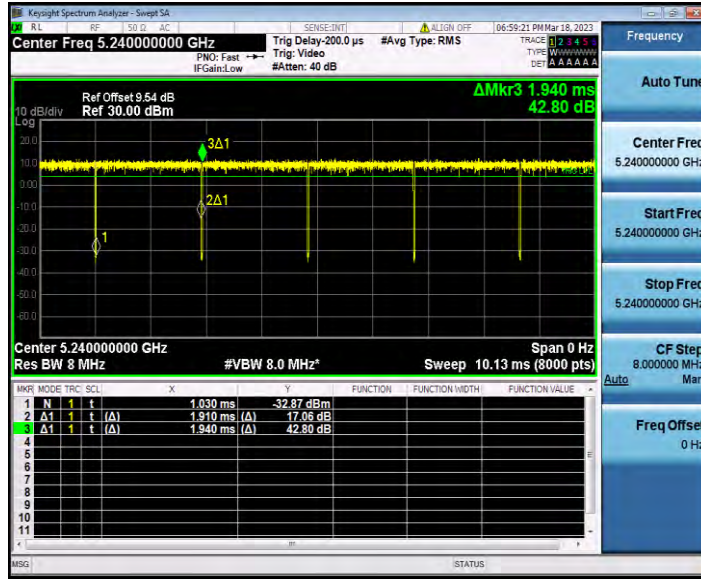
11N20SISO_Ant2_5180



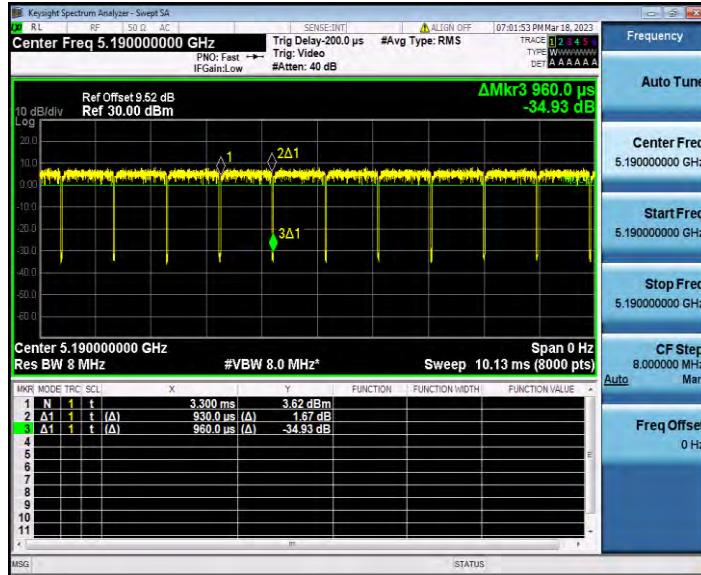
11N20SISO_Ant2_5200



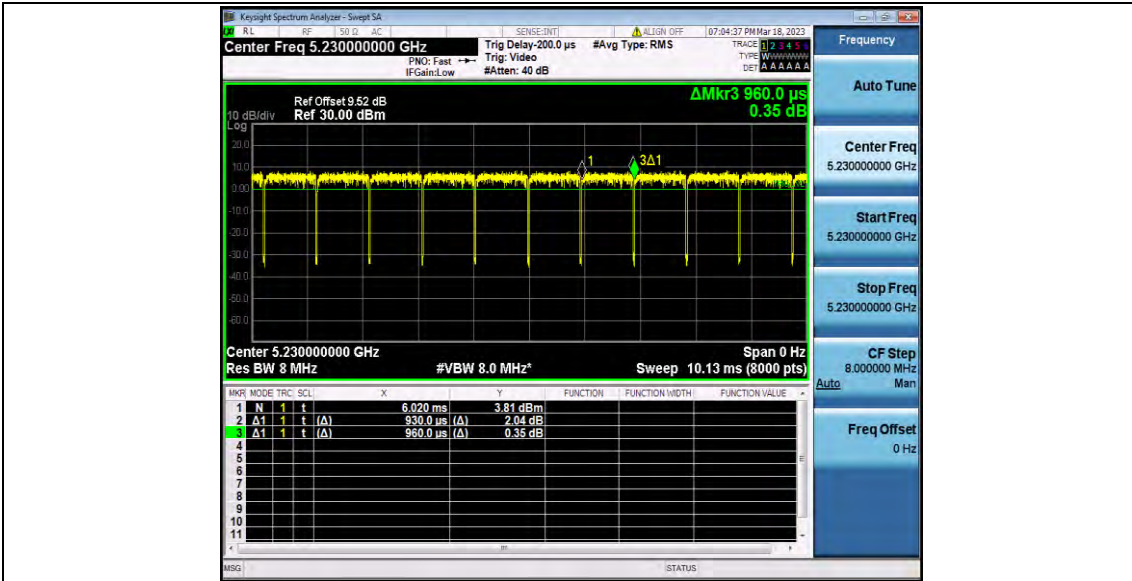
11N20SISO_Ant2_5240



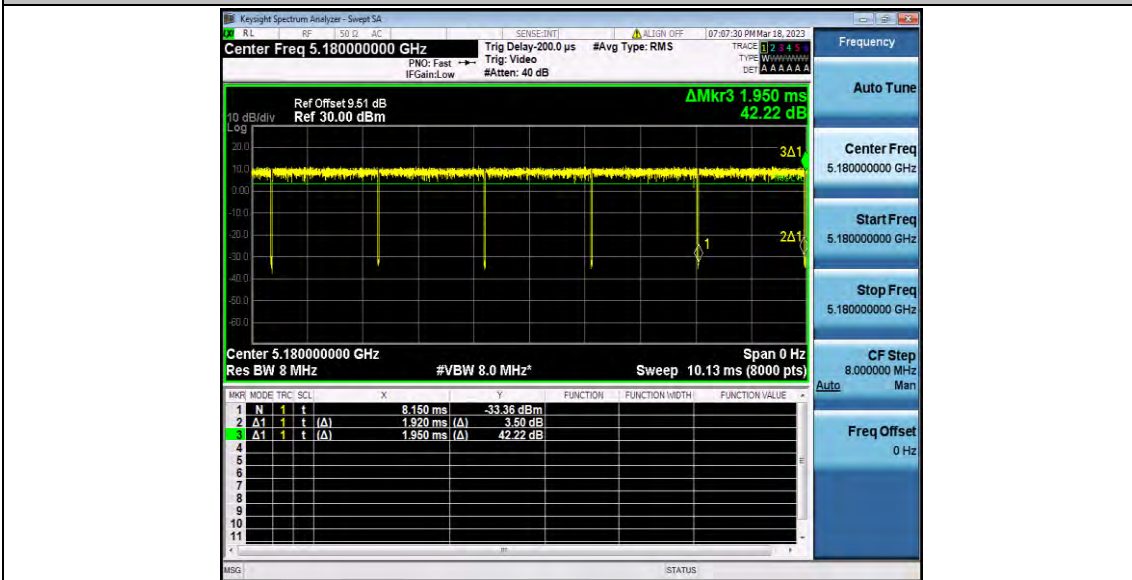
11N40SISO_Ant2_5190



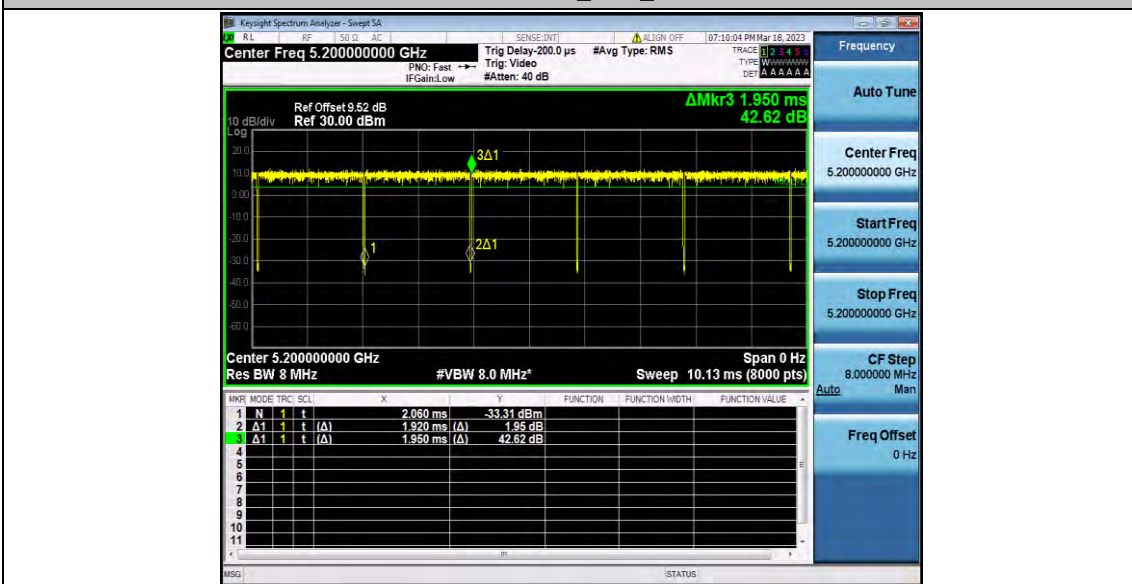
11N40SISO_Ant2_5230



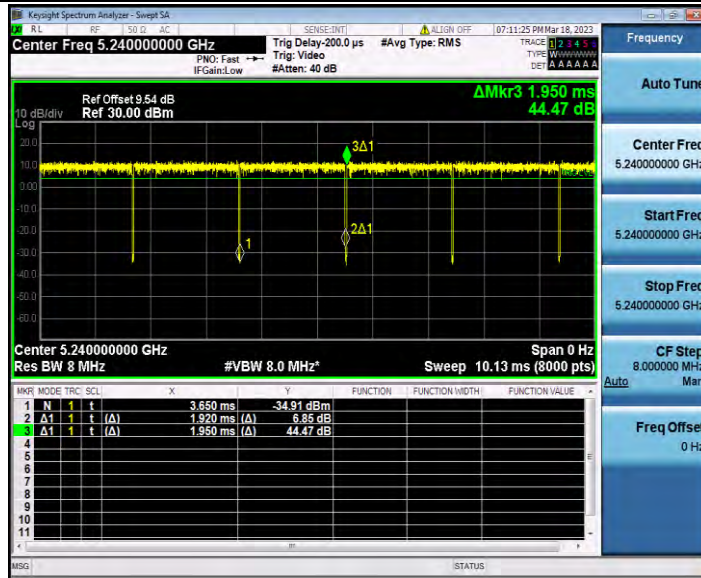
11AC20SISO_Ant2_5180



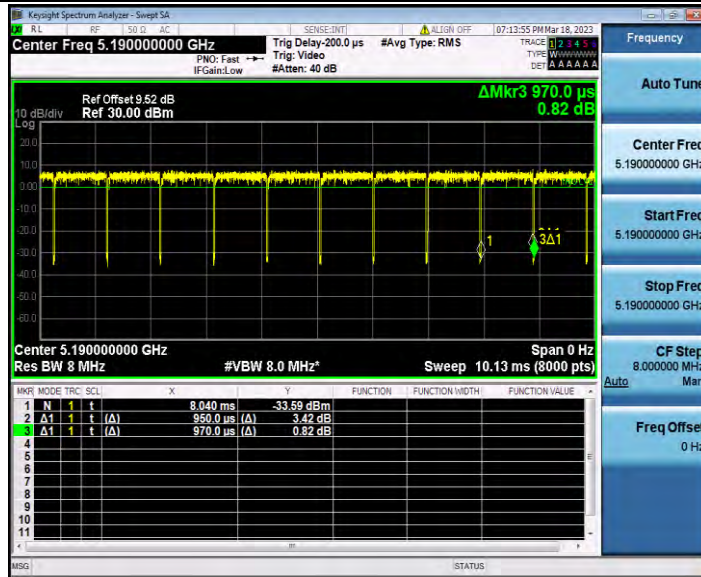
11AC20SISO_Ant2_5200



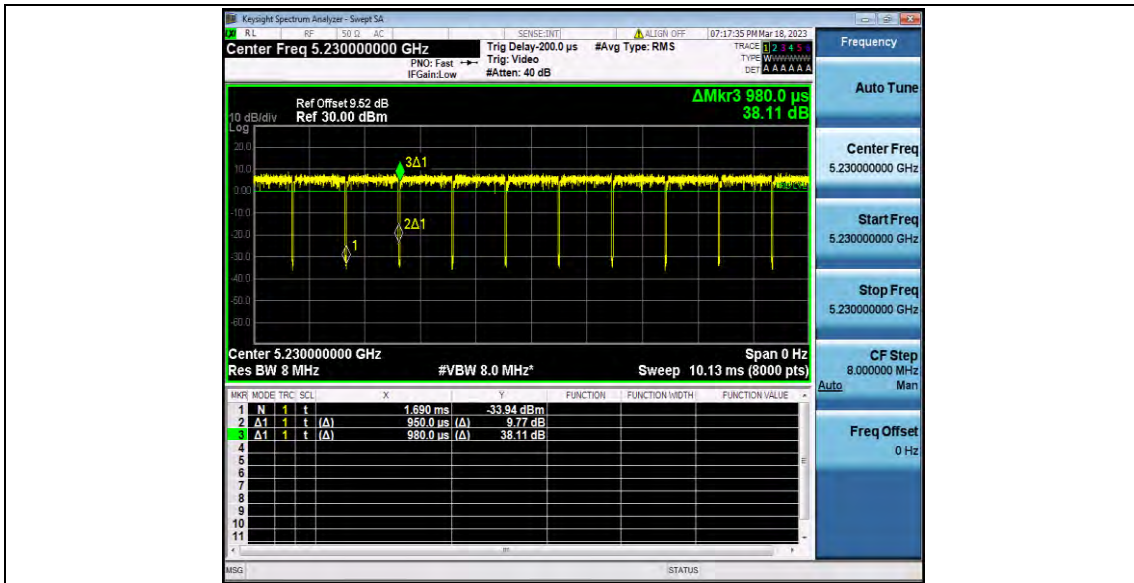
11AC20SISO_Ant2_5240



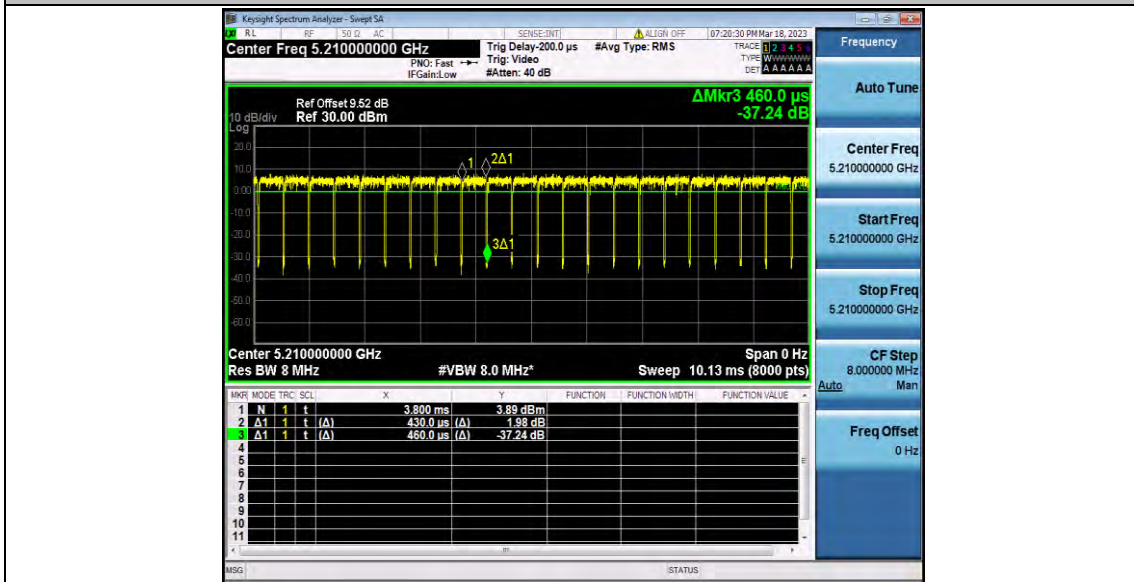
11AC40SISO_Ant2_5190



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	11.87	99.03	0.04	11.91	≤23.98	PASS
		5200	12.22	98.56	0.06	12.28	≤23.98	PASS
		5240	12.26	98.56	0.06	12.32	≤23.98	PASS
11N20SISO	Ant2	5180	11.64	98.96	0.05	11.69	≤23.98	PASS
		5200	11.97	98.45	0.07	12.04	≤23.98	PASS
		5240	12.09	98.45	0.07	12.16	≤23.98	PASS
11N40SISO	Ant2	5190	11.47	96.88	0.14	11.61	≤23.98	PASS
		5230	11.76	96.88	0.14	11.90	≤23.98	PASS
11AC20SISO	Ant2	5180	11.59	98.46	0.07	11.66	≤23.98	PASS
		5200	11.97	98.46	0.07	12.04	≤23.98	PASS
		5240	12.03	98.46	0.07	12.10	≤23.98	PASS
11AC40SISO	Ant2	5190	11.48	97.94	0.09	11.57	≤23.98	PASS
		5230	11.74	96.94	0.13	11.87	≤23.98	PASS
11AC80SISO	Ant2	5210	14.11	93.48	0.29	14.40	≤23.98	PASS

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

Appendix D.5: Maximum power spectral density

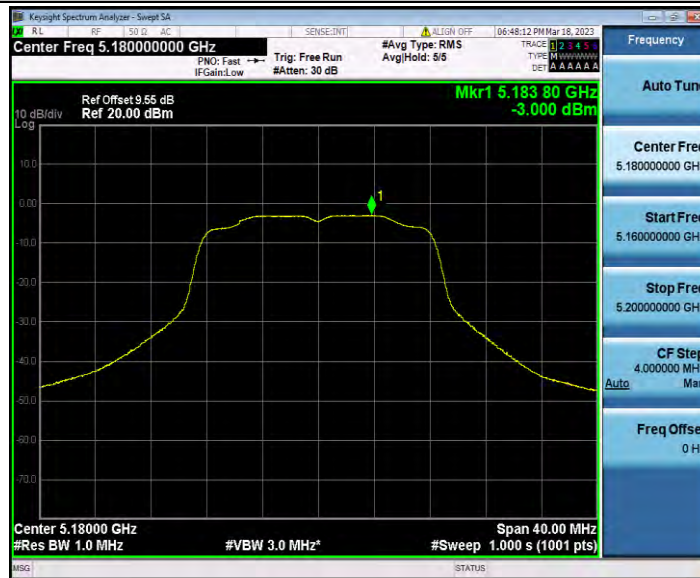
Test Result

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant2	5180	-3	≤11.00	PASS
		5200	1.22	≤11.00	PASS
		5240	1.31	≤11.00	PASS
11N20SISO	Ant2	5180	0.48	≤11.00	PASS
		5200	0.83	≤11.00	PASS
		5240	1.68	≤11.00	PASS
11N40SISO	Ant2	5190	-2.74	≤11.00	PASS
		5230	-2.55	≤11.00	PASS
11AC20SISO	Ant2	5180	0.52	≤11.00	PASS
		5200	0.83	≤11.00	PASS
		5240	0.95	≤11.00	PASS
11AC40SISO	Ant2	5190	-2.72	≤11.00	PASS
		5230	-2.52	≤11.00	PASS
11AC80SISO	Ant2	5210	-2.95	≤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

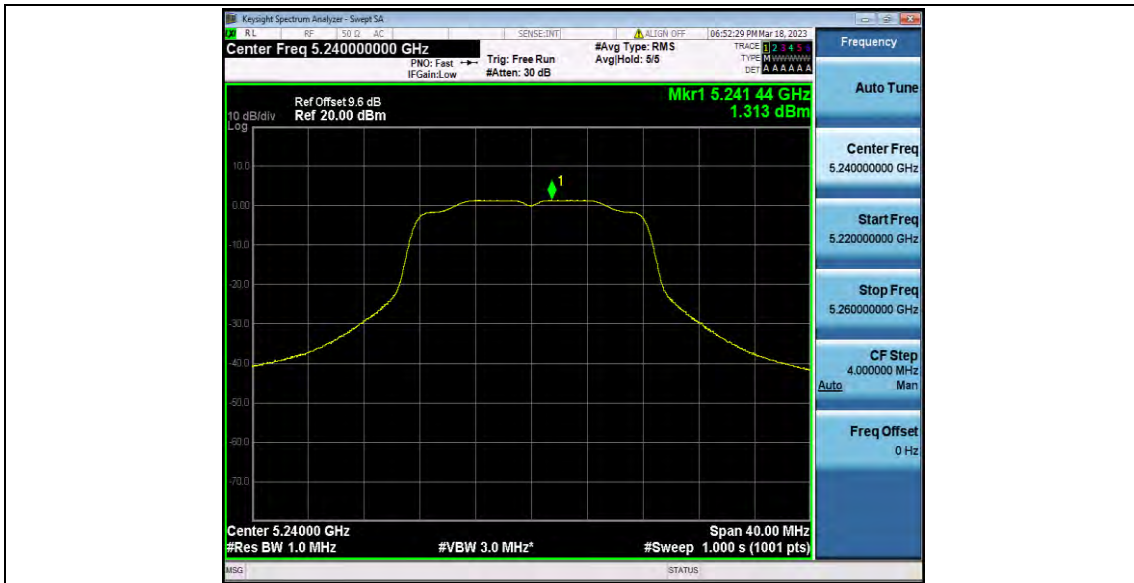
11A_Ant2_5180



11A_Ant2_5200



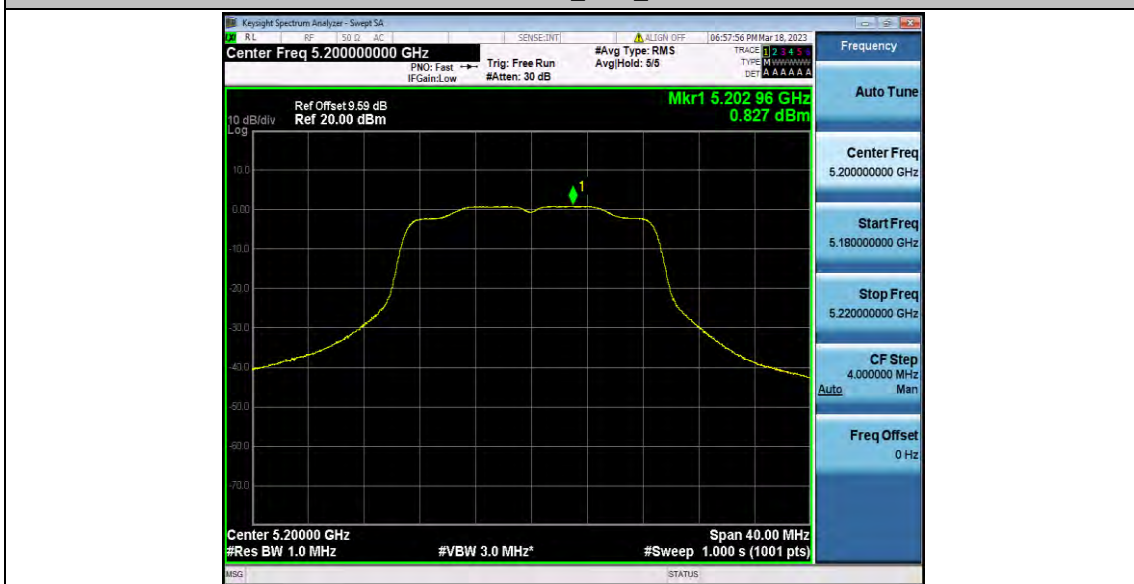
11A_Ant2_5240



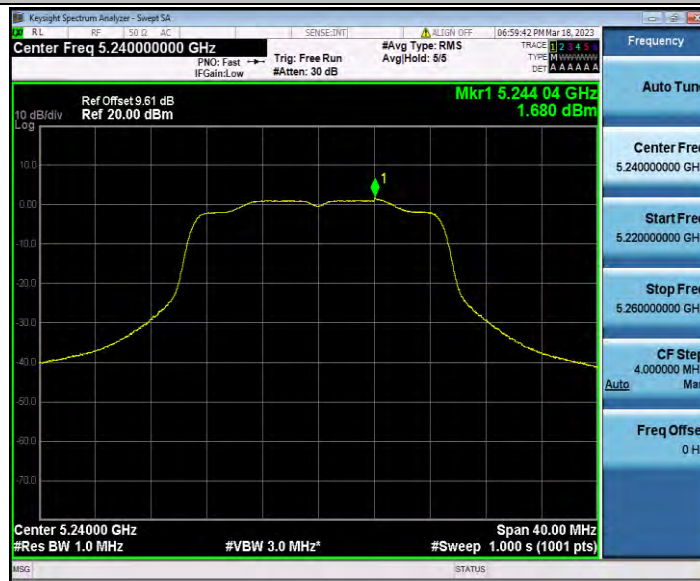
11N20SISO_Ant2_5180



11N20SISO_Ant2_5200



11N20SISO_Ant2_5240



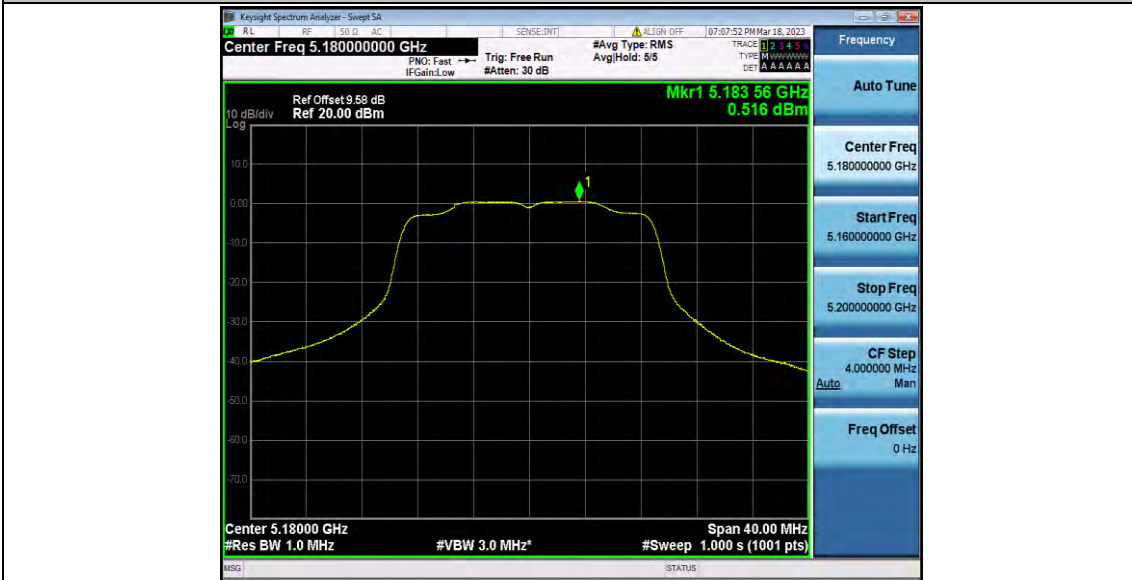
11N40SISO_Ant2_5190



11N40SISO_Ant2_5230



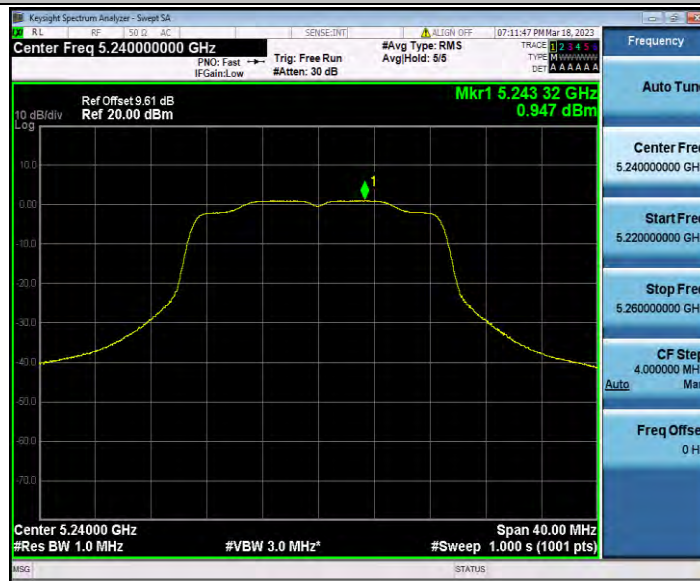
11AC20SISO_Ant2_5180



11AC20SISO_Ant2_5200



11AC20SISO_Ant2_5240



11AC40SISO_Ant2_5190



11AC40SISO_Ant2_5230



11AC80SISO_Ant2_5210

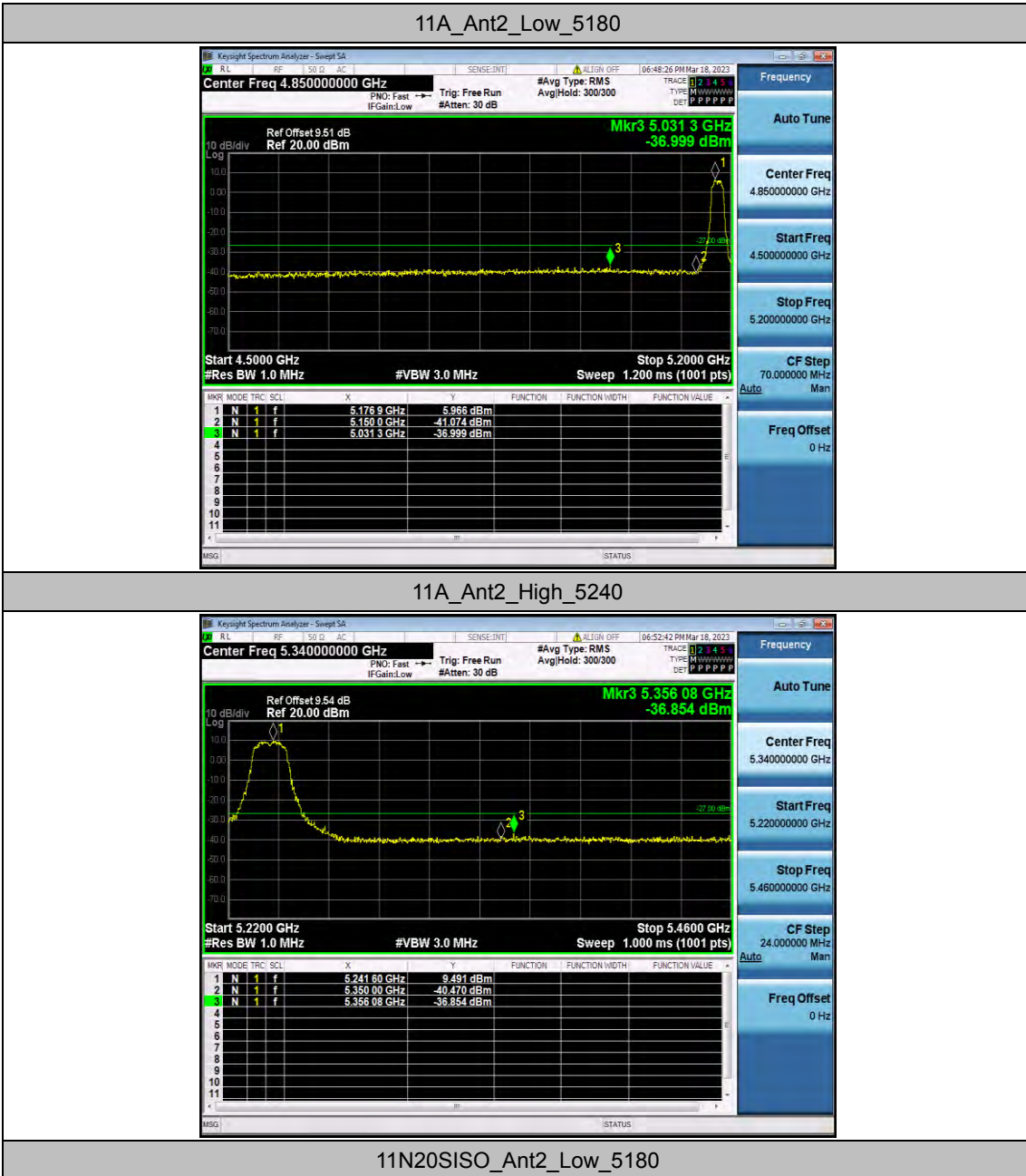


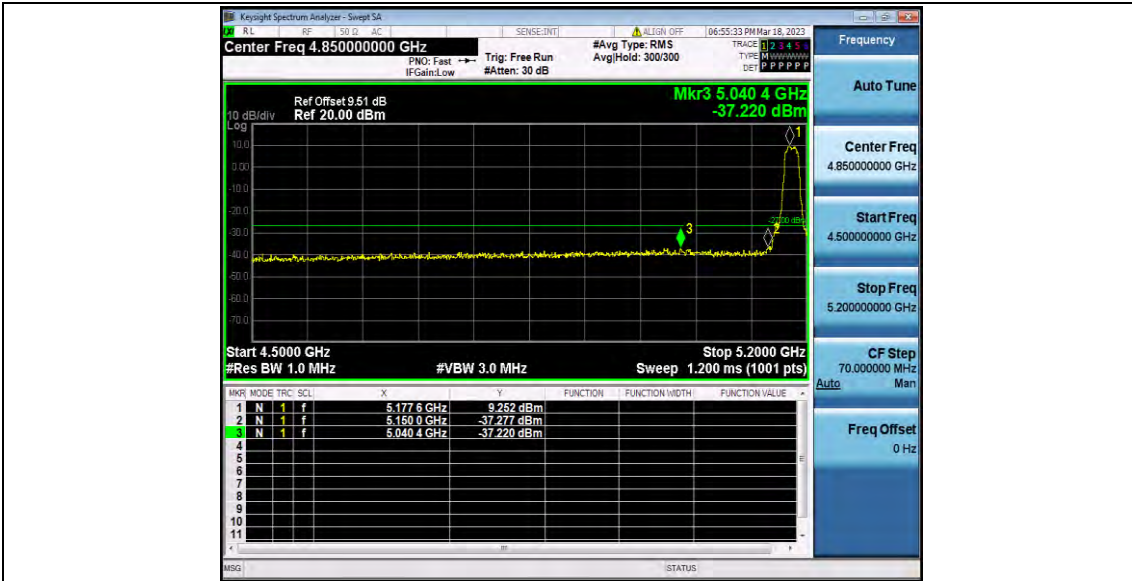
Appendix D.6: Band edge measurements

Test Result B1

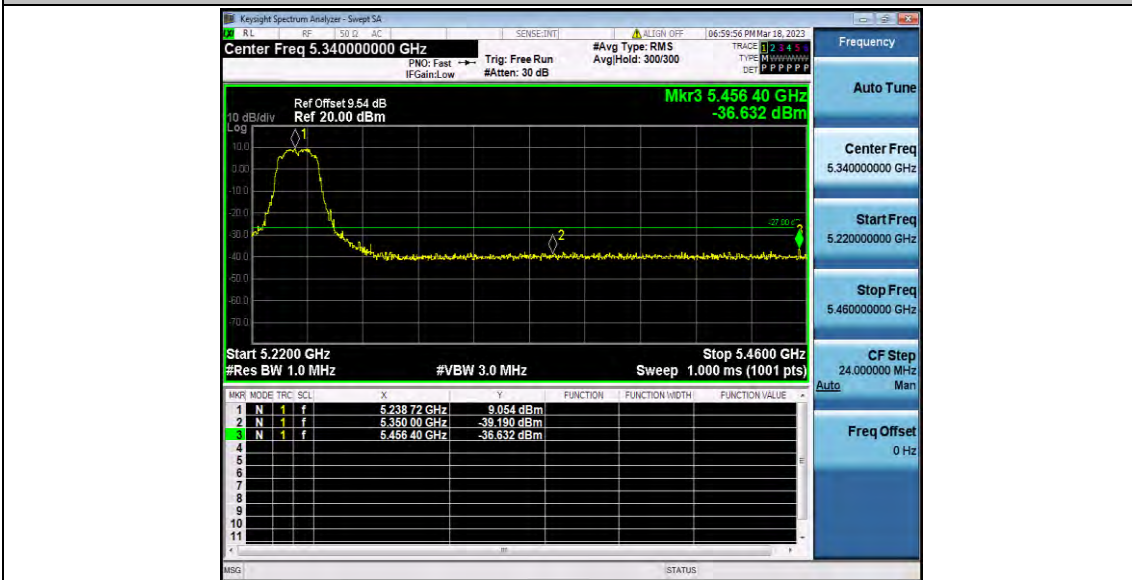
TestMode	Antenna	ChName	Frequency[MHz]	Result[dBm]	Limit[dBm]	Verdict
11A	Ant2	Low	5180	-37	≤-27	PASS
		High	5240	-36.85	≤-27	PASS
11N20SISO	Ant2	Low	5180	-37.22	≤-27	PASS
		High	5240	-36.63	≤-27	PASS
11N40SISO	Ant2	Low	5190	-29.18	≤-27	PASS
		High	5230	-37.29	≤-27	PASS
11AC20SISO	Ant2	Low	5180	-35.87	≤-27	PASS
		High	5240	-37.79	≤-27	PASS
11AC40SISO	Ant2	Low	5190	-31.12	≤-27	PASS
		High	5230	-37.97	≤-27	PASS
11AC80SISO	Ant2	Low	5210	-33.38	≤-27	PASS
		High	5210	-36.89	≤-27	PASS

Test Graphs B1/2/3

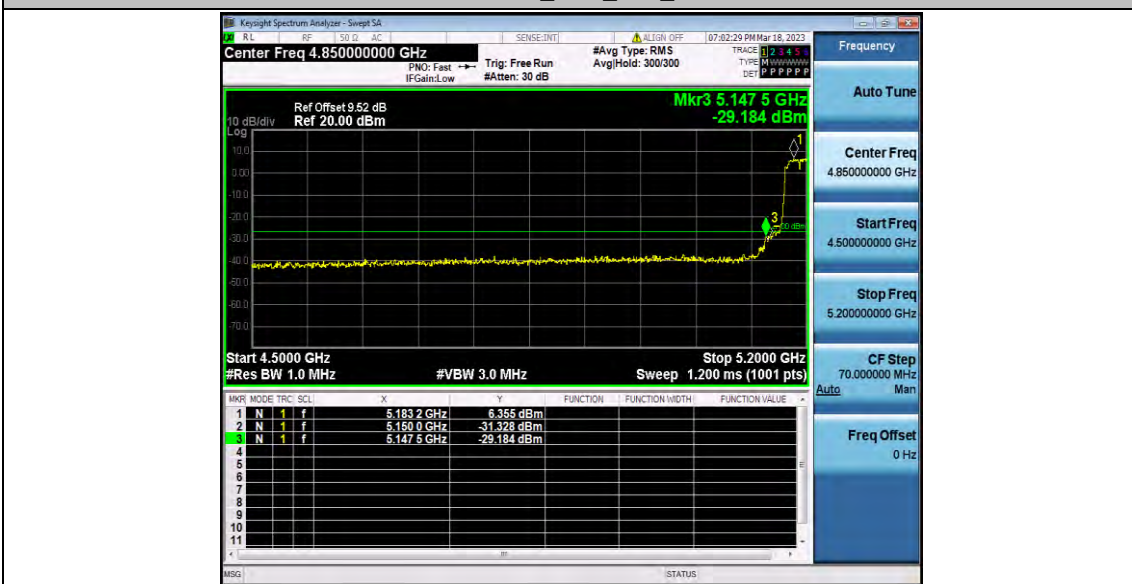




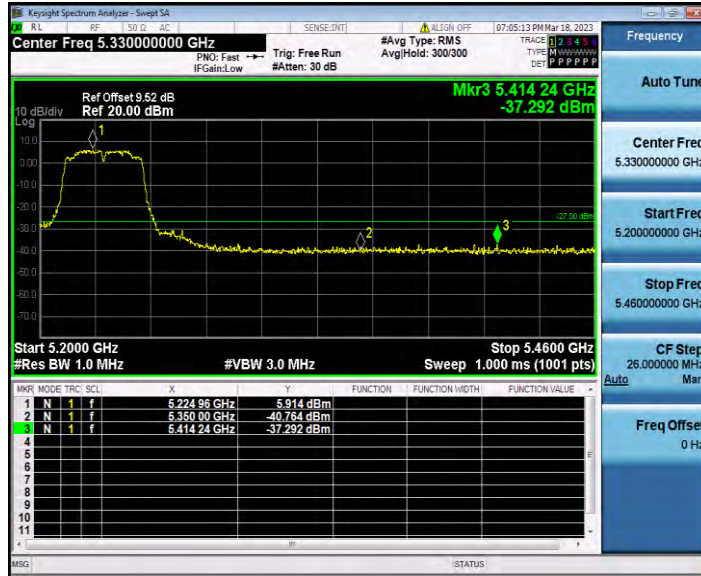
11N20SISO_Ant2_High_5240



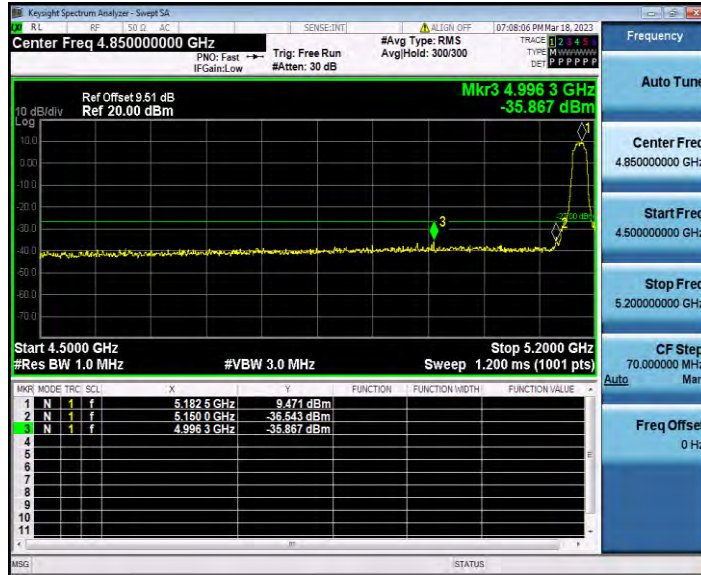
11N40SISO_Ant2_Low_5190



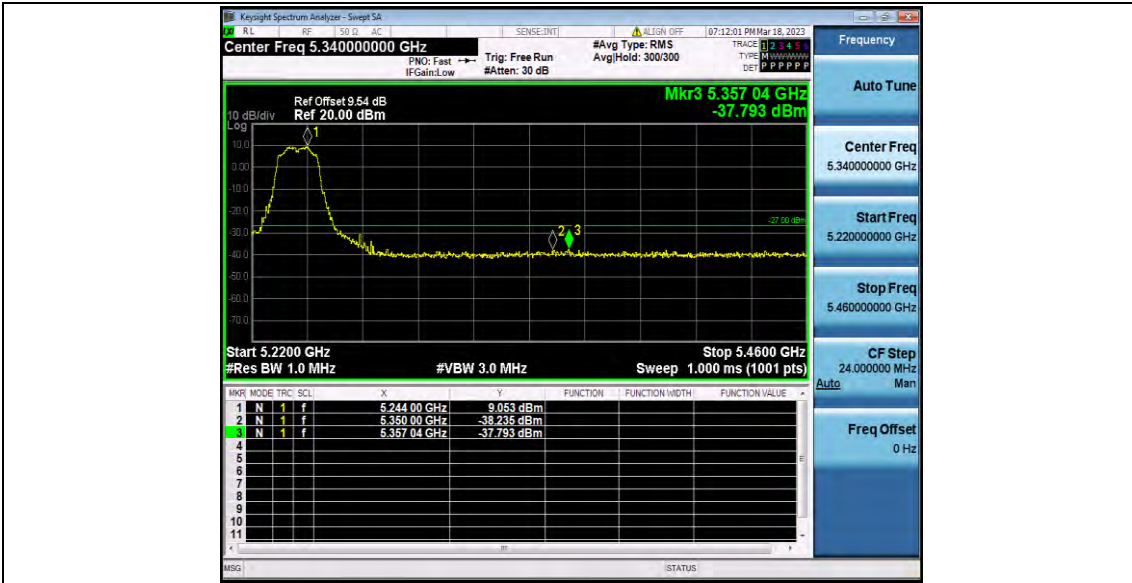
11N40SISO_Ant2_High_5230



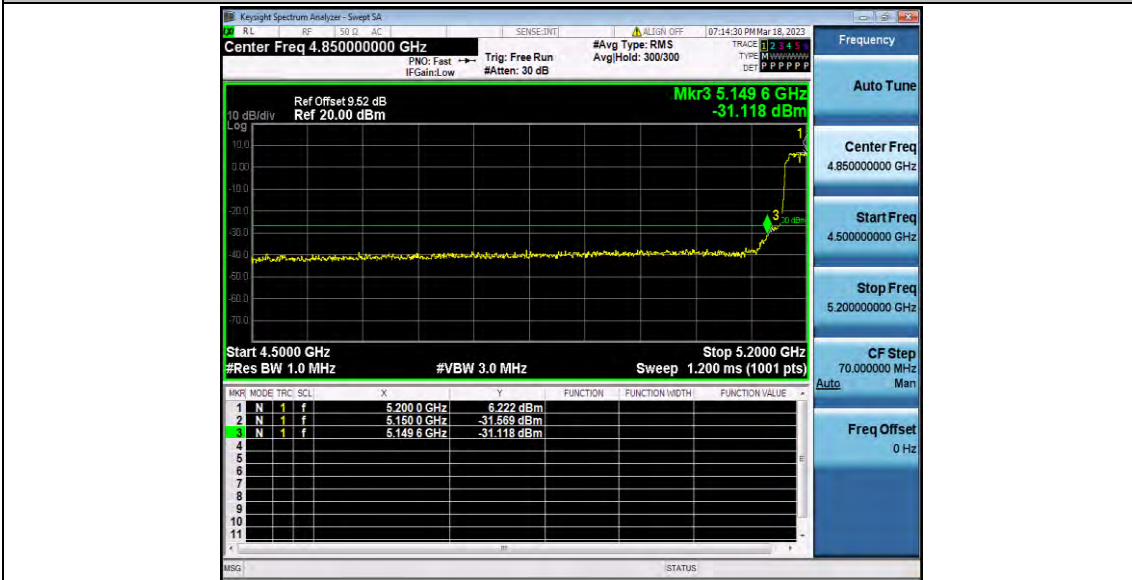
11AC20SISO_Ant2_Low_5180



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

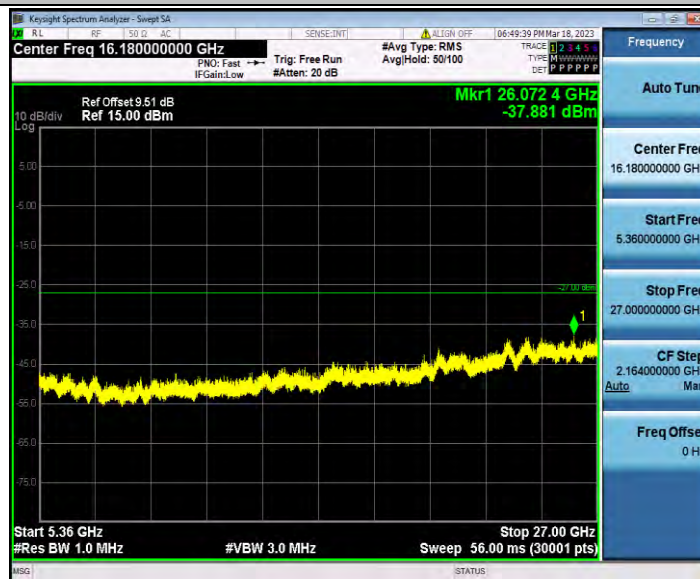
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant2	5180	30~5140	5122.63	-44.85	≤-27	PASS
			5360~40000	26072.37	-37.88	≤-27	PASS
		5200	30~5140	5043.25	-43.34	≤-27	PASS
			5360~40000	23589.54	-37.24	≤-27	PASS
		5240	30~5140	5078.51	-44.28	≤-27	PASS
			5360~40000	24287.79	-38.29	≤-27	PASS
11N20SISO	Ant2	5180	30~5140	5024.85	-41.73	≤-27	PASS
			5360~40000	24906.69	-38.18	≤-27	PASS
		5200	30~5140	5137.45	-43.18	≤-27	PASS
			5360~40000	24326.02	-37.93	≤-27	PASS
		5240	30~5140	5075.27	-43.85	≤-27	PASS
			5360~40000	26515.26	-37.79	≤-27	PASS
11N40SISO	Ant2	5190	30~5140	5127.91	-39.88	≤-27	PASS
			5360~40000	26756.91	-37.42	≤-27	PASS
		5230	30~5140	5068.97	-44.77	≤-27	PASS
			5360~40000	26042.07	-38.38	≤-27	PASS
11AC20SISO	Ant2	5180	30~5140	5065.73	-43.58	≤-27	PASS
			5360~40000	24137.03	-37.94	≤-27	PASS
		5200	30~5140	5047.51	-43.43	≤-27	PASS
			5360~40000	24259.65	-37.65	≤-27	PASS
		5240	30~5140	5076.47	-43.74	≤-27	PASS
			5360~40000	25610.71	-37.85	≤-27	PASS
11AC40SISO	Ant2	5190	30~5140	5137.96	-40.49	≤-27	PASS
			5360~40000	24217.1	-37.71	≤-27	PASS
		5230	30~5140	5072.89	-44.47	≤-27	PASS
			5360~40000	26842.03	-37.94	≤-27	PASS
11AC80SISO	Ant2	5210	30~5140	5137.96	-40.49	≤-27	PASS
			5360~40000	25246.44	-37.84	≤-27	PASS

Test Graphs

11A_Ant2_5180_30~5140



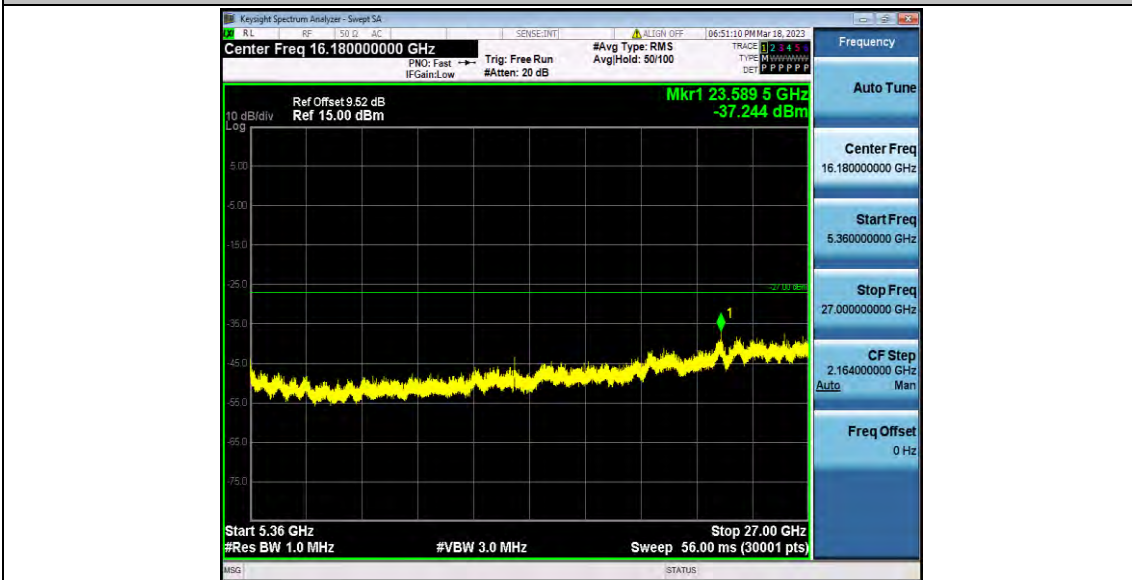
11A_Ant2_5180_5360~40000



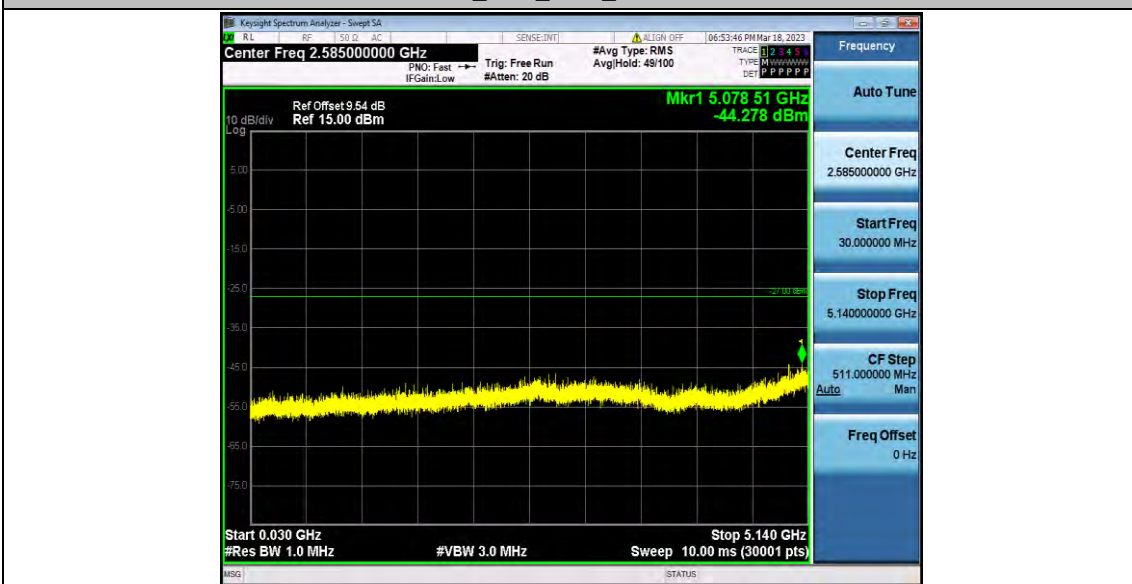
11A_Ant2_5200_30~5140



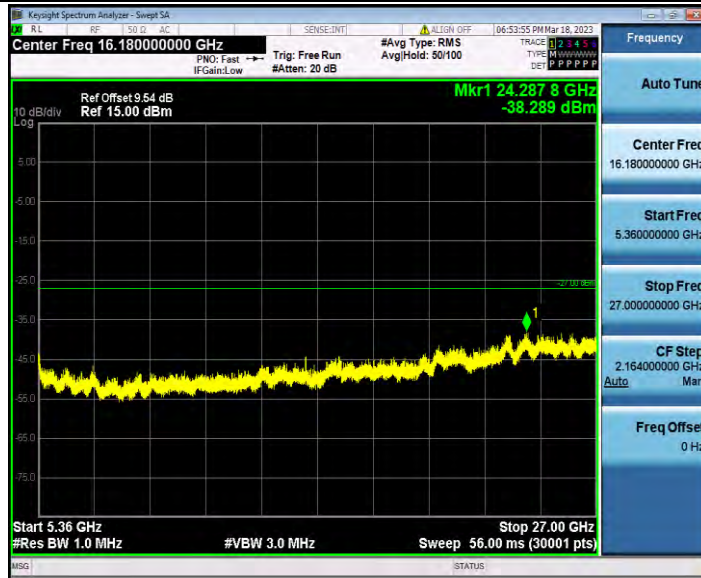
11A_Ant2_5200_5360~40000



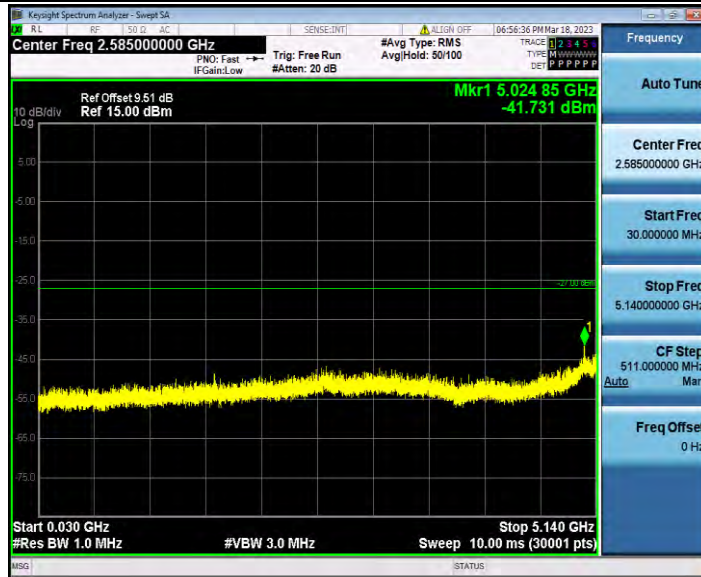
11A_Ant2_5240_30~5140



11A_Ant2_5240_5360~40000



11N20SISO_Ant2_5180_30~5140



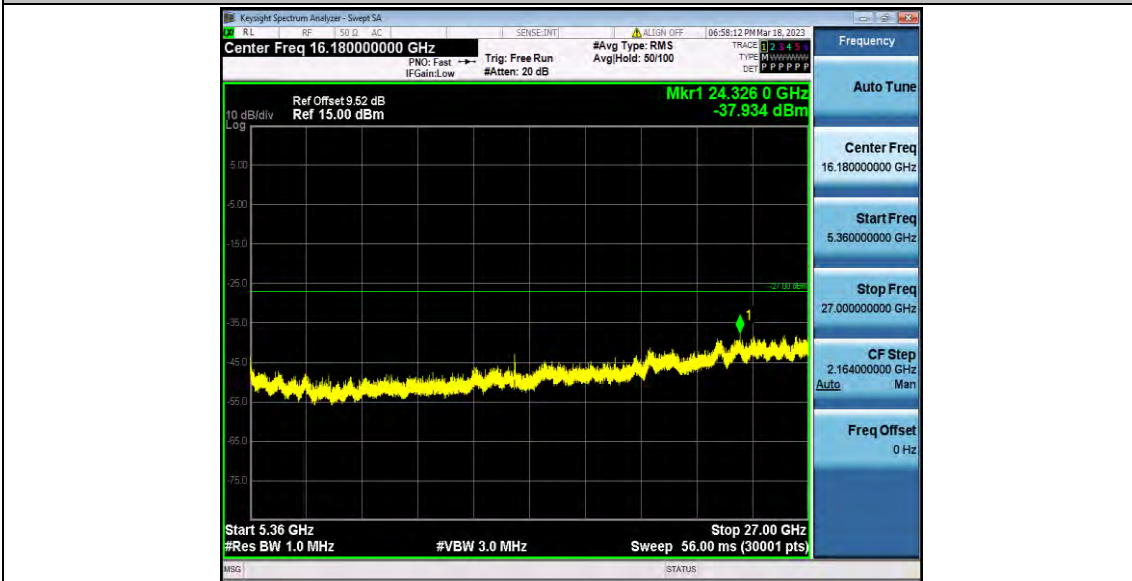
11N20SISO_Ant2_5180_5360~40000



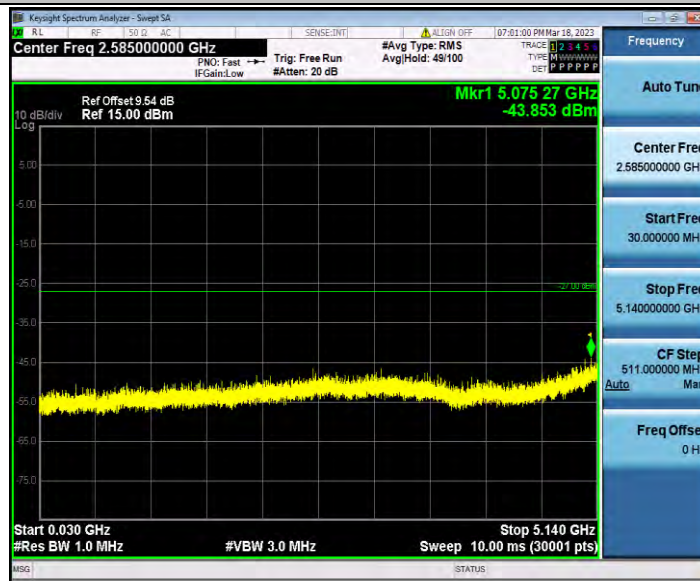
11N20SISO_Ant2_5200_30~5140



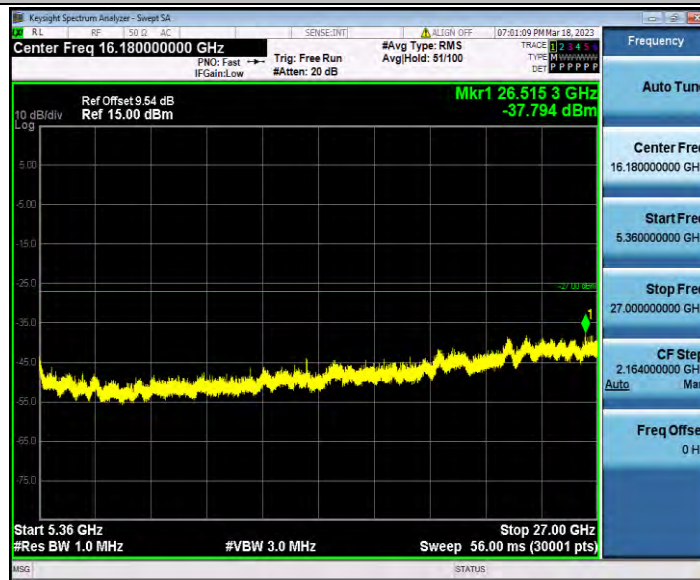
11N20SISO_Ant2_5200_5360~40000



11N20SISO_Ant2_5240_30~5140



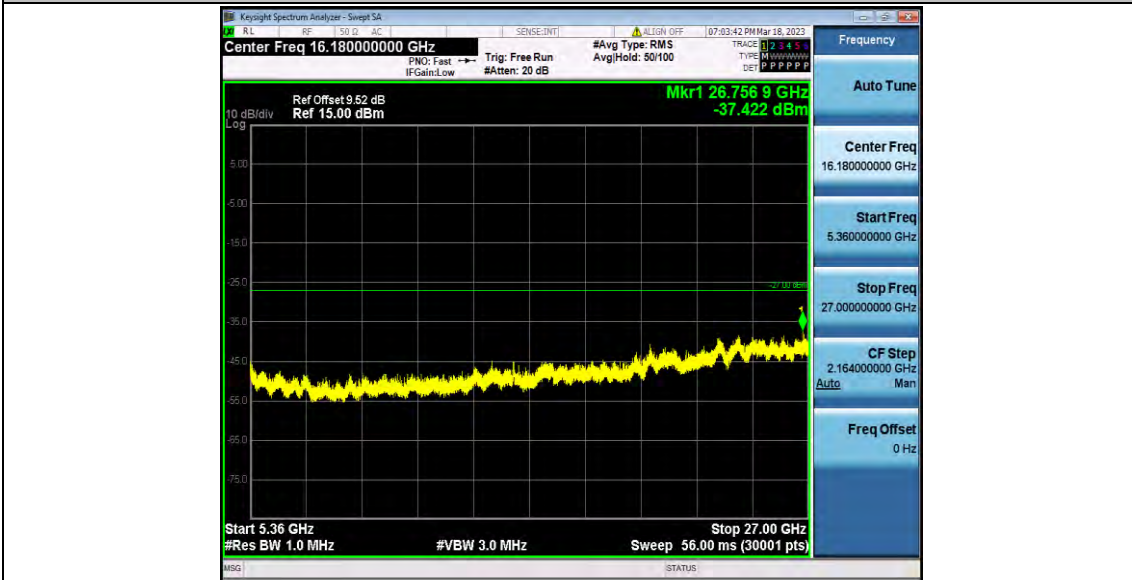
11N20SISO_Ant2_5240_5360~40000



11N40SISO_Ant2_5190_30~5140



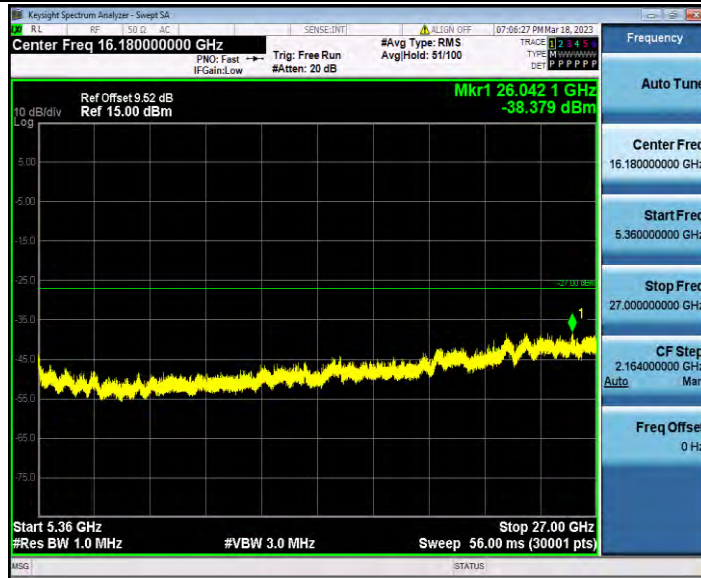
11N40SISO_Ant2_5190_5360~40000



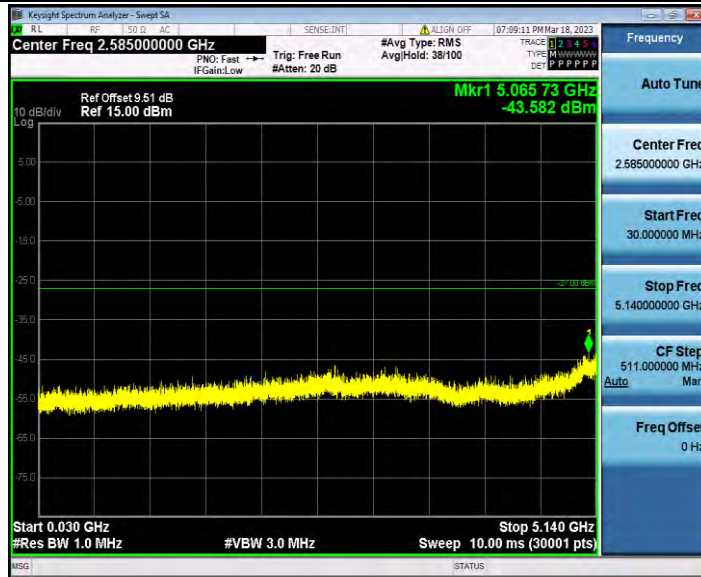
11N40SISO_Ant2_5230_30~5140



11N40SISO_Ant2_5230_5360~40000



11AC20SISO_Ant2_5180_30~5140



11AC20SISO_Ant2_5180_5360~40000



11AC20SISO_Ant2_5200_30~5140



11AC20SISO_Ant2_5200_5360~40000



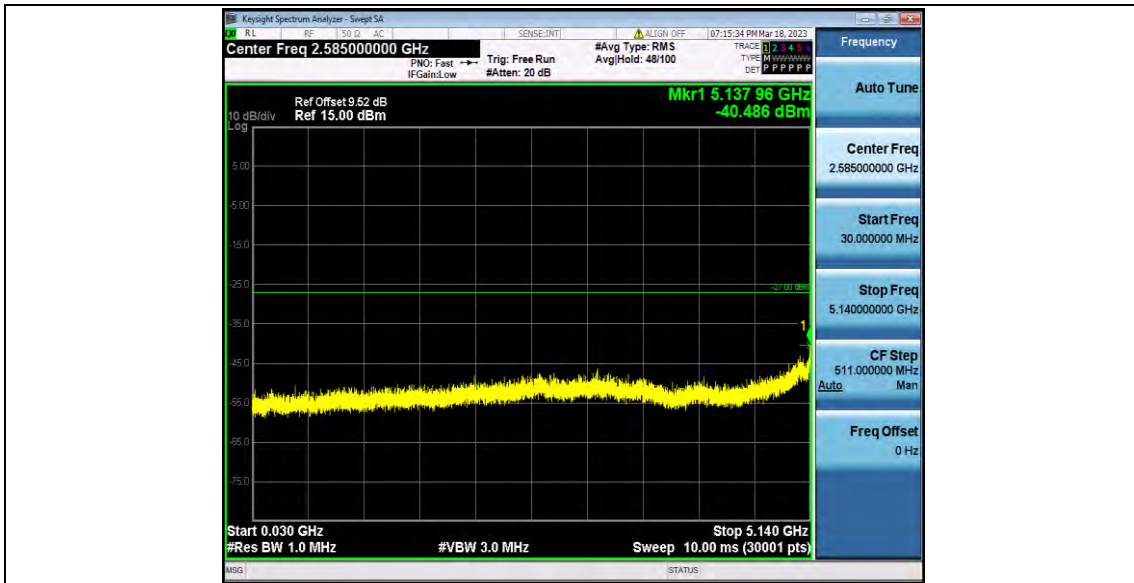
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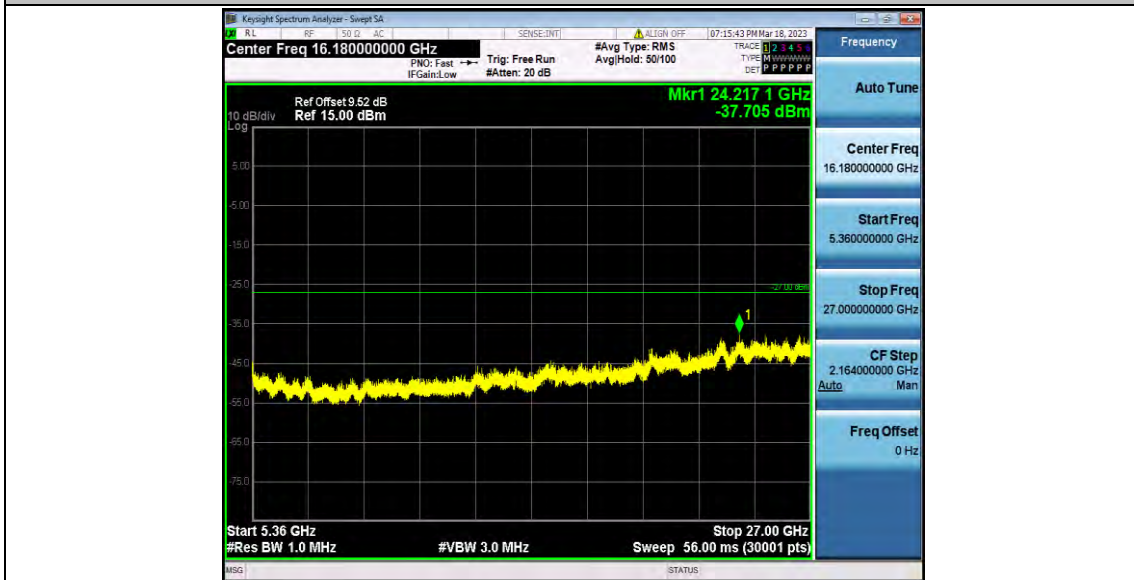
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11AC40SISO_Ant2_5190_30~5140



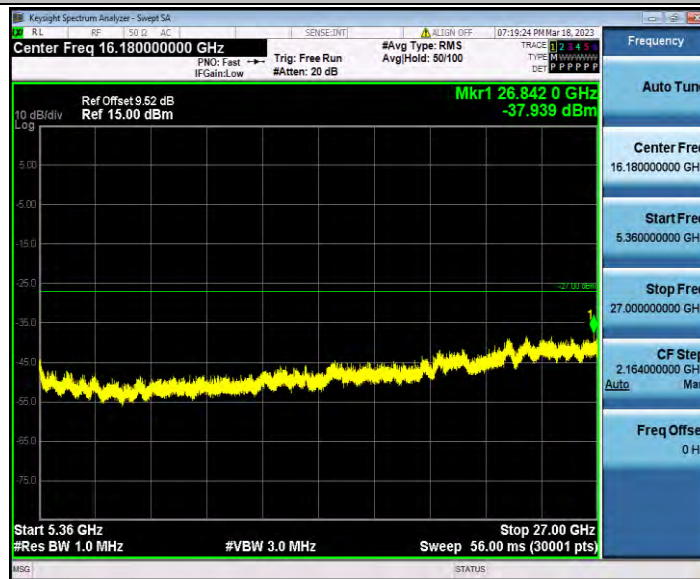
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11AC40SISO_Ant2_5230_30~5140



11AC40SISO_Ant2_5230_5360~40000



11AC80SISO_Ant2_5210_30~5140



11AC80SISO_Ant2_5210_5360~40000

