

Case No. : <u>GTS20231208004-1-38</u>	
Ambient Condition: <u>23</u> °C, <u>48</u> %RH	
According Standard: ■Part15E	
Test Date: <u>2024.2.18</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	22.640	5168.280	5190.920	---	---
		5200	23.000	5188.280	5211.280	---	---
		5240	19.680	5230.160	5249.840	---	---
11N20SISO	Ant1	5180	23.480	5167.840	5191.320	---	---
		5200	23.240	5188.360	5211.600	---	---
		5240	19.880	5229.920	5249.800	---	---
11N40SISO	Ant1	5190	39.600	5170.160	5209.760	---	---
		5230	39.440	5210.080	5249.520	---	---
11AC20SISO	Ant1	5180	23.200	5168.520	5191.720	---	---
		5200	22.480	5188.760	5211.240	---	---
		5240	20.120	5229.960	5250.080	---	---
11AC40SISO	Ant1	5190	39.840	5170.160	5210.000	---	---
		5230	40.080	5210.000	5250.080	---	---
11AC80SISO	Ant1	5210	80.000	5170.000	5250.000	---	---
11AX20SISO	Ant1	5180	24.600	5168.040	5192.640	---	---
		5200	26.040	5186.480	5212.520	---	---
		5240	19.920	5230.040	5249.960	---	---
11AX40SISO	Ant1	5190	39.680	5170.080	5209.760	---	---
		5230	39.600	5210.160	5249.760	---	---
11AX80SISO	Ant1	5210	80.640	5169.840	5250.480	---	---

Test Graphs

11A_Ant1_5180



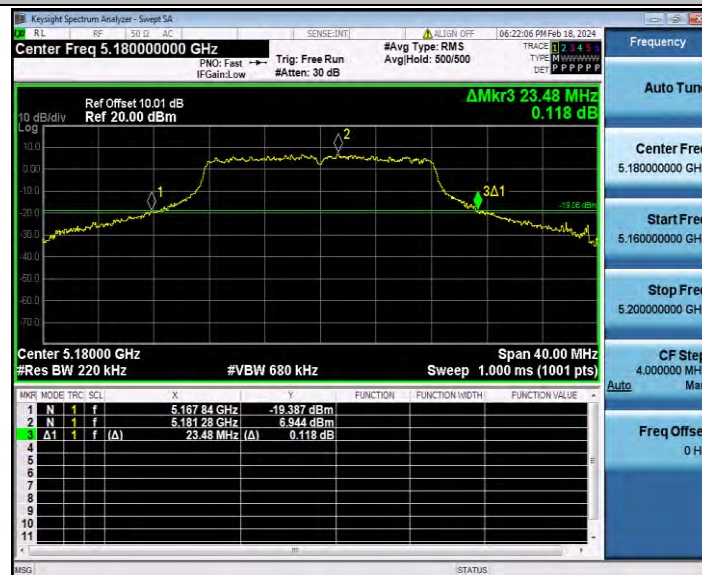
11A_Ant1_5200



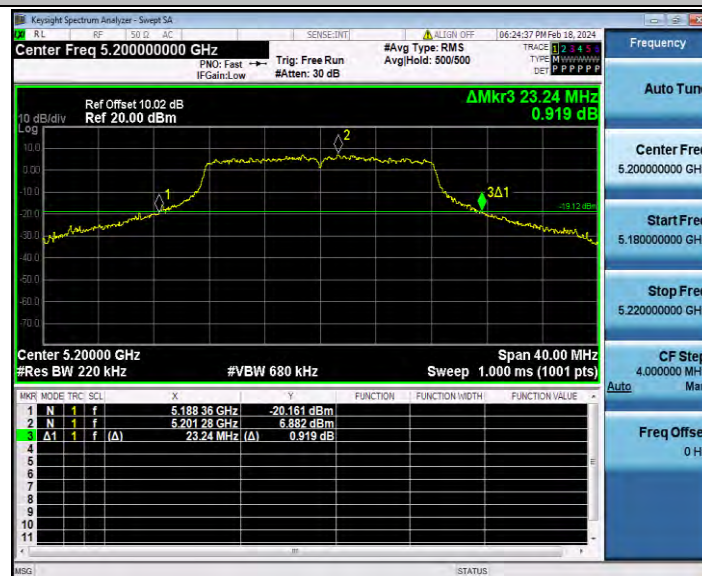
11A_Ant1_5240



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



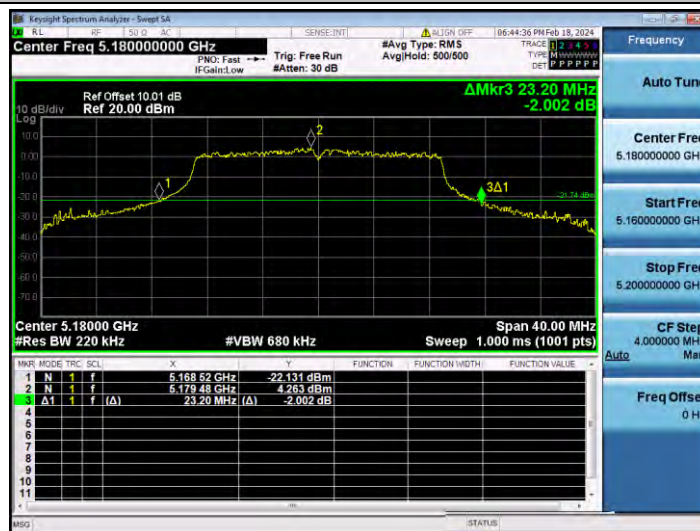
11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC80SISO_Ant1_5210



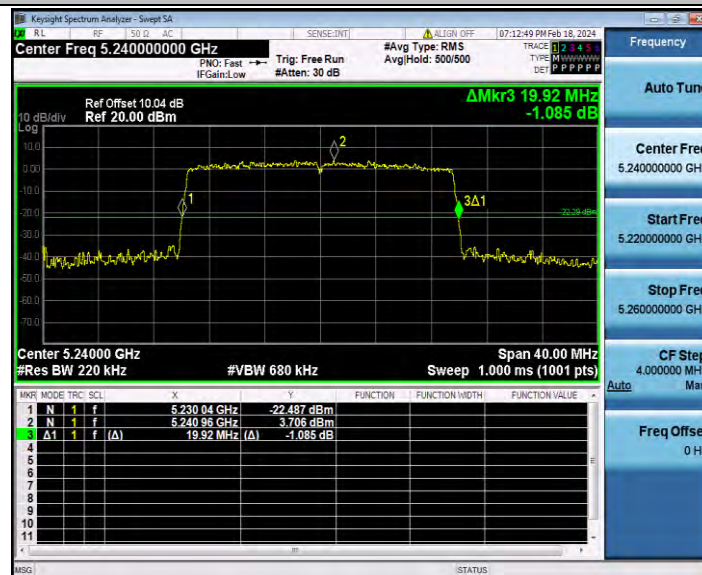
11AX20SISO_Ant1_5180



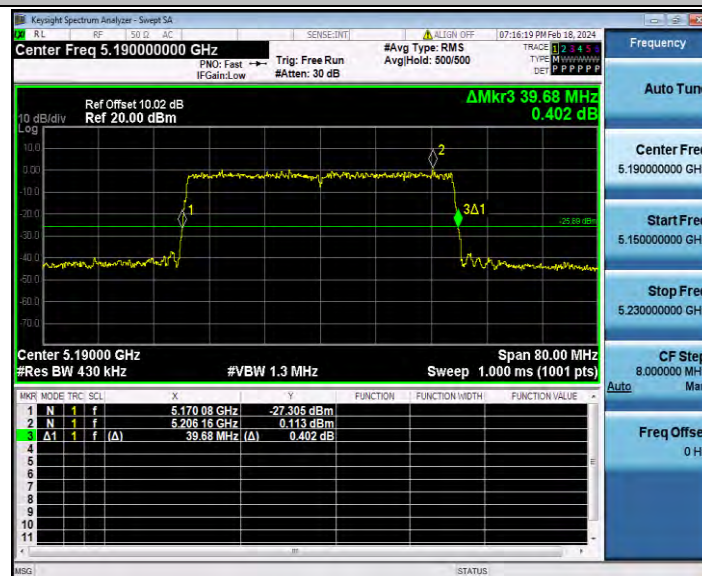
11AX20SISO_Ant1_5200



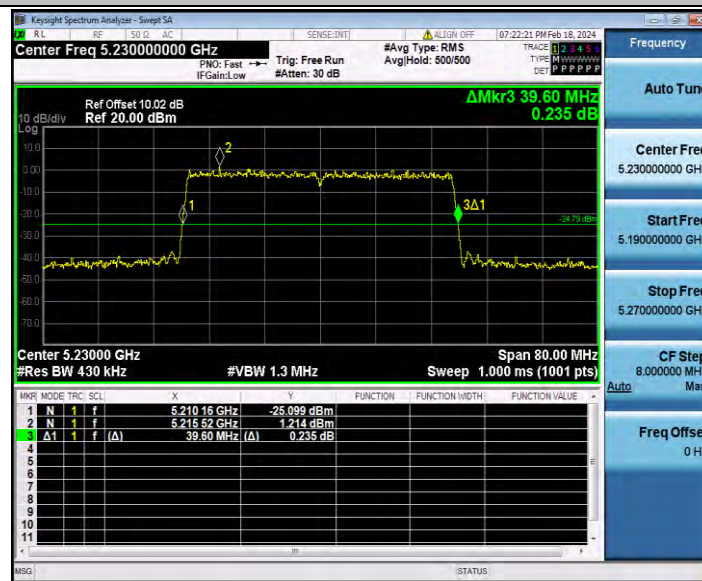
11AX20SISO_Ant1_5240



11AX40SISO_Ant1_5190



11AX40SISO_Ant1_5230



11AX80SISO_Ant1_5210

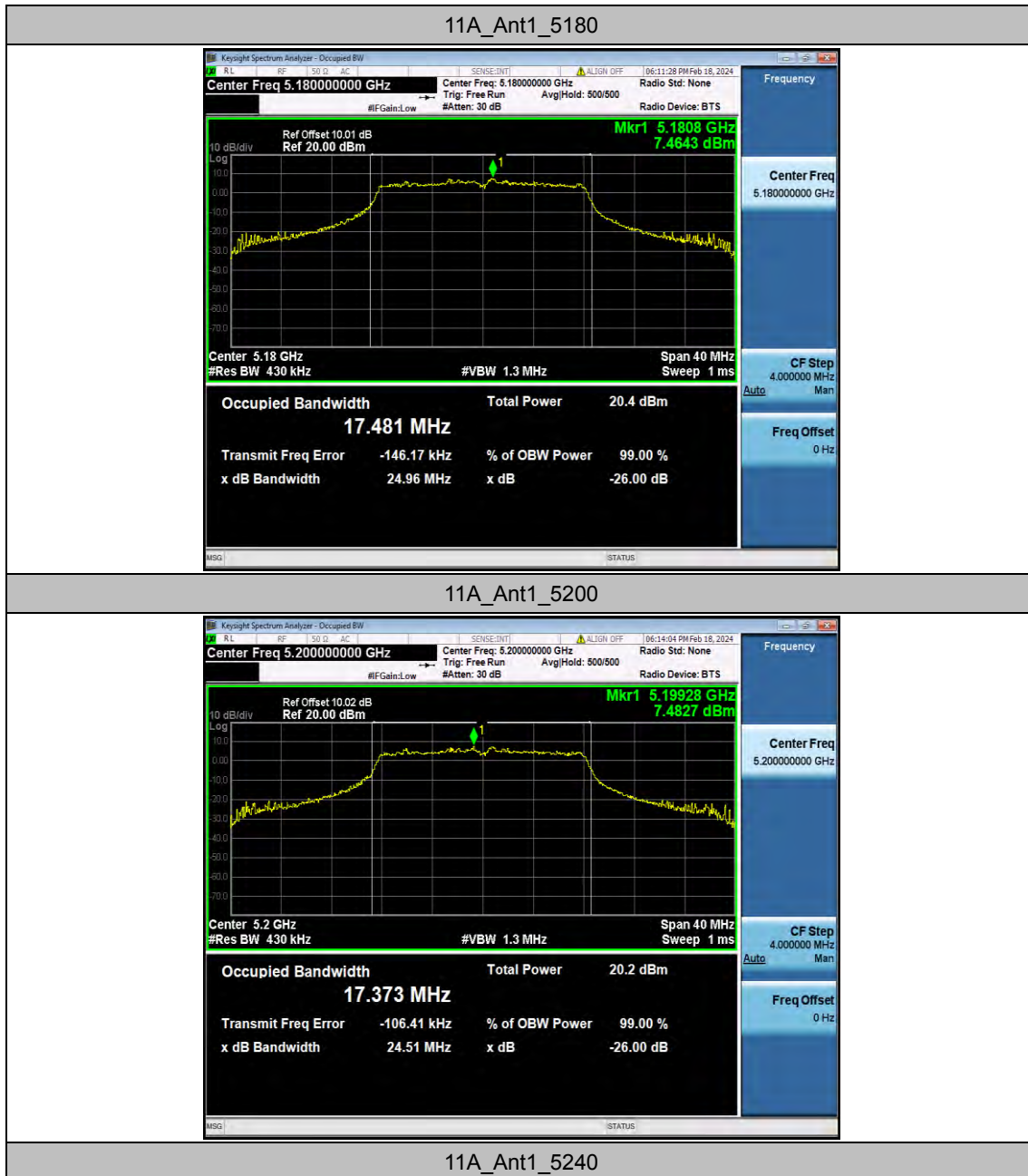


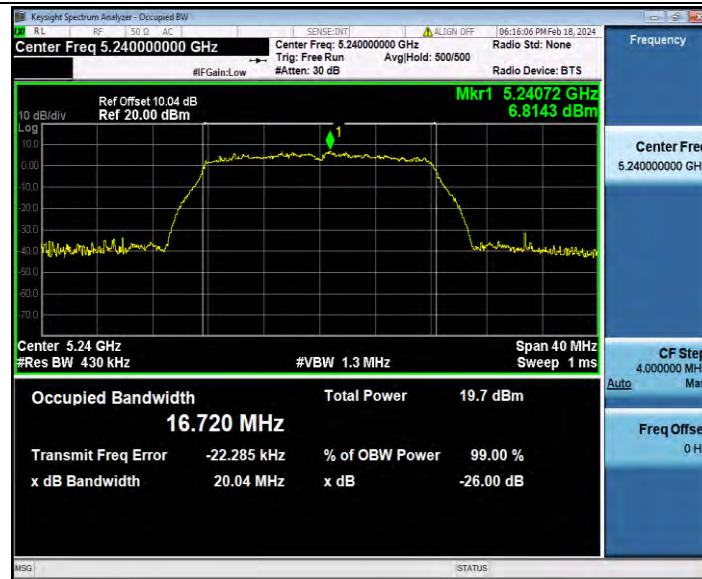
Appendix D.2: Occupied channel bandwidth

Test Result

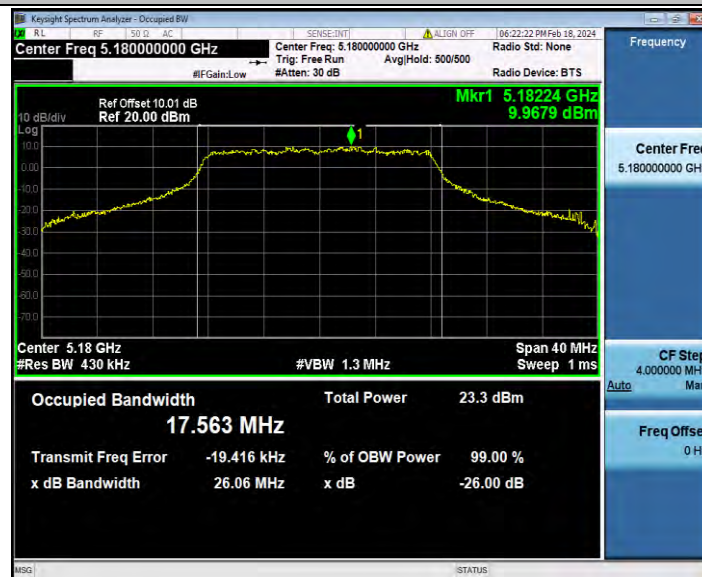
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.481	5171.1133	5188.5943	---	---
		5200	17.373	5191.2071	5208.5801	---	---
		5240	16.720	5231.6177	5248.3377	---	---
11N20SISO	Ant1	5180	17.563	5171.1991	5188.7621	---	---
		5200	17.487	5191.2552	5208.7422	---	---
		5240	16.795	5231.5763	5248.3713	---	---
11N40SISO	Ant1	5190	35.985	5172.0117	5207.9967	---	---
		5230	35.978	5211.9816	5247.9596	---	---
11AC20SISO	Ant1	5180	18.307	5170.7862	5189.0932	---	---
		5200	18.261	5190.8164	5209.0774	---	---
		5240	17.783	5231.0965	5248.8795	---	---
11AC40SISO	Ant1	5190	35.994	5172.0542	5208.0482	---	---
		5230	35.935	5212.0071	5247.9421	---	---
11AC80SISO	Ant1	5210	75.219	5172.2994	5247.5184	---	---
11AX20SISO	Ant1	5180	19.328	5170.3388	5189.6668	---	---
		5200	19.336	5190.3533	5209.6893	---	---
		5240	18.919	5230.5299	5249.4489	---	---
11AX40SISO	Ant1	5190	38.006	5170.9967	5209.0027	---	---
		5230	37.982	5210.9804	5248.9624	---	---
11AX80SISO	Ant1	5210	77.649	5171.0842	5248.7332	---	---

Test Graphs





11N20SISO_Ant1_5180



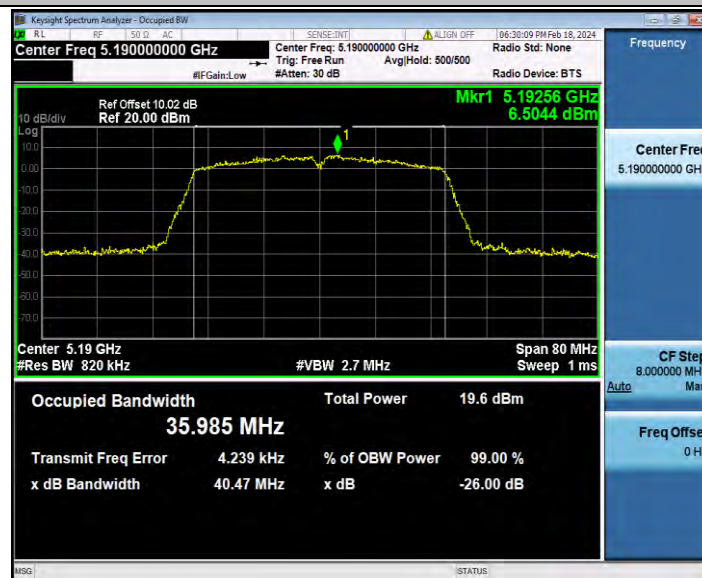
11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



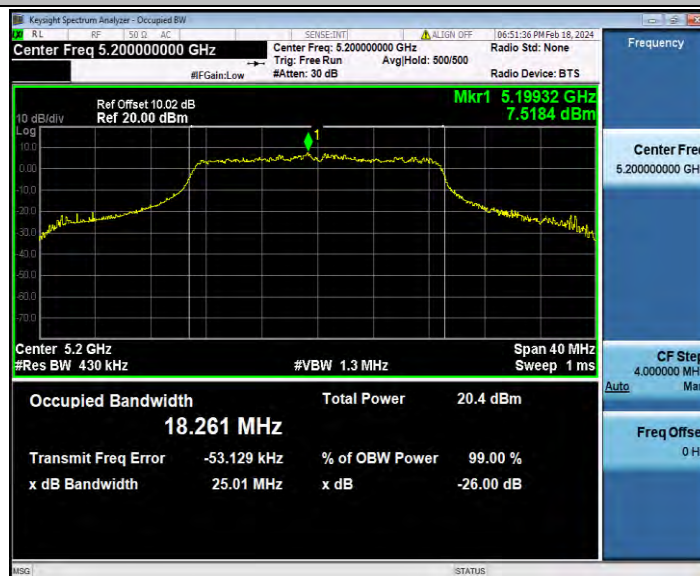
11N40SISO_Ant1_5230



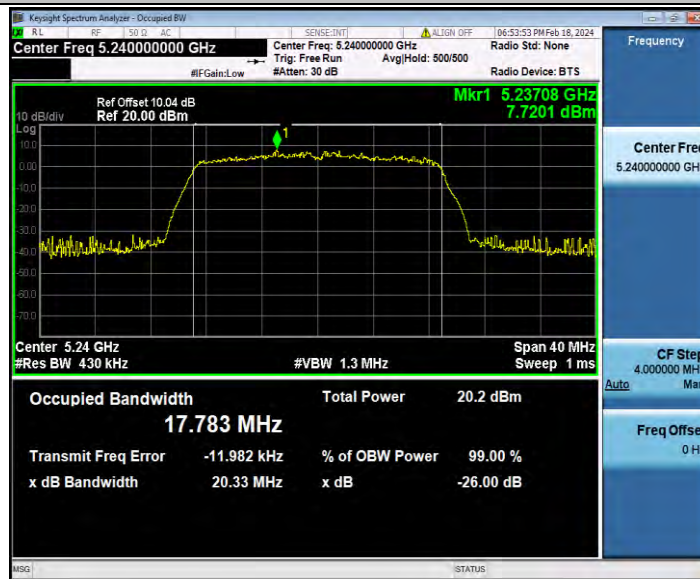
11AC20SISO_Ant1_5180



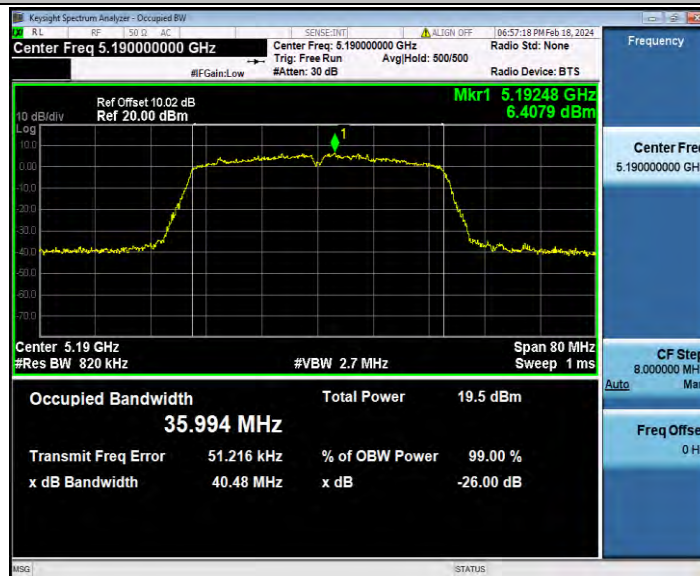
11AC20SISO_Ant1_5200



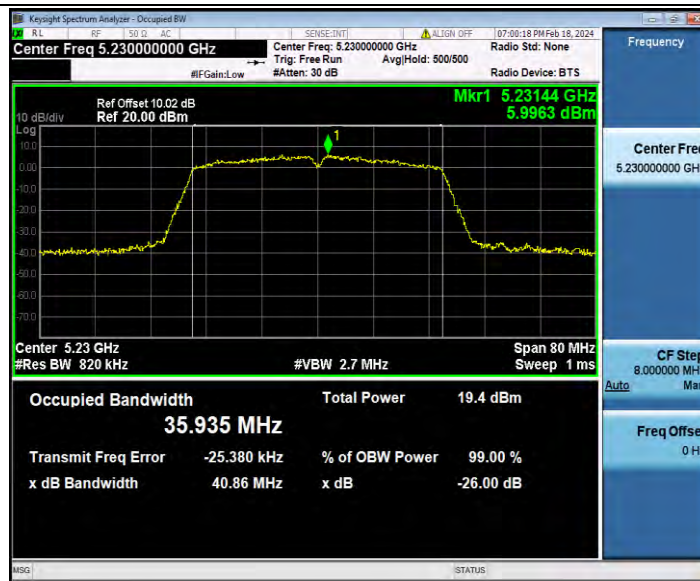
11AC20SISO_Ant1_5240



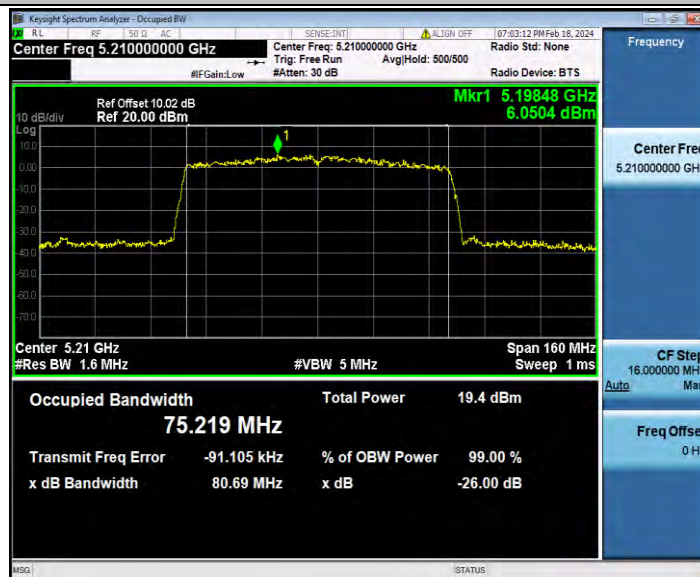
11AC40SISO_Ant1_5190



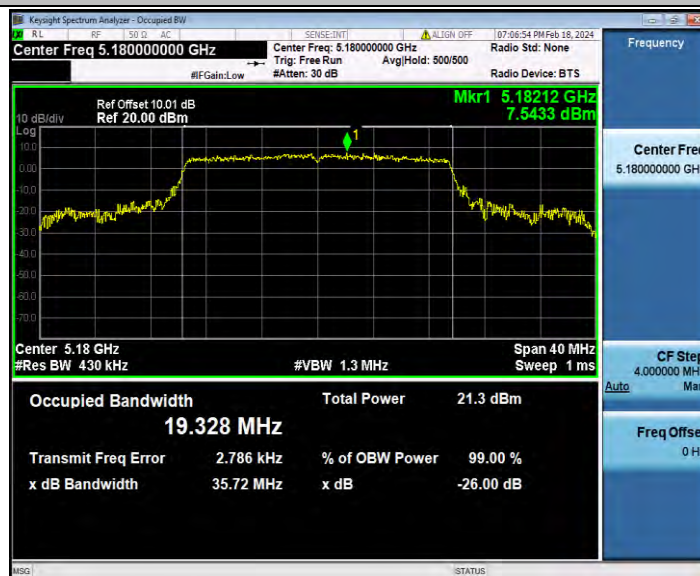
11AC40SISO_Ant1_5230



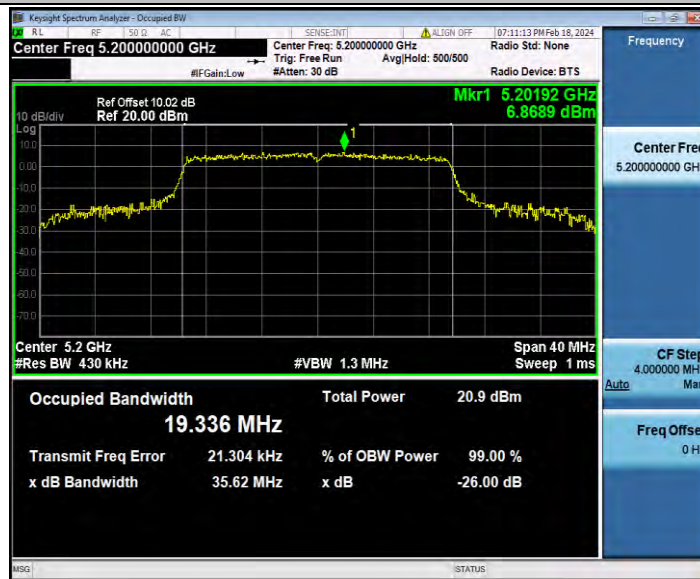
11AC80SISO_Ant1_5210



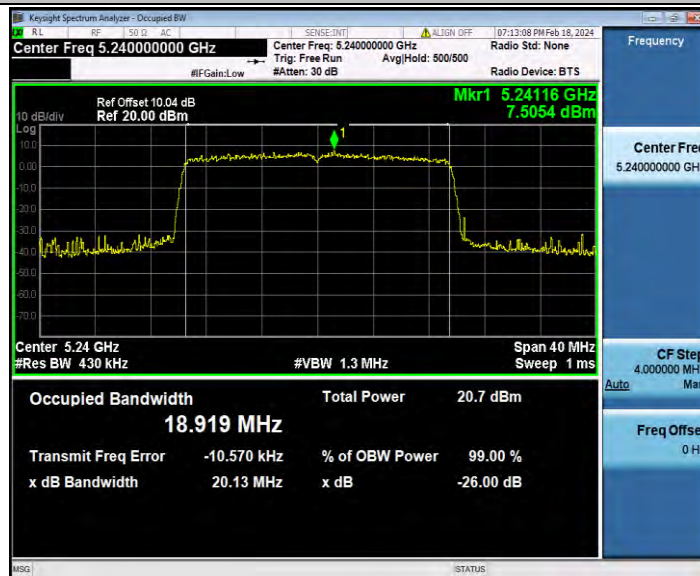
11AX20SISO_Ant1_5180



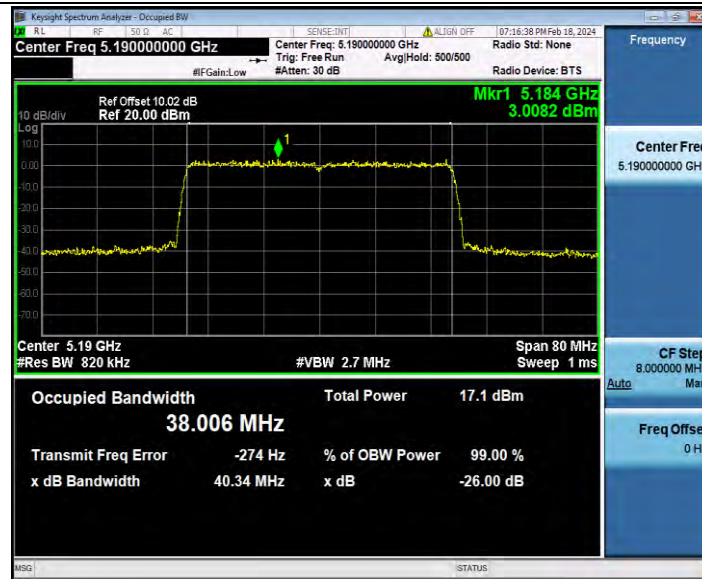
11AX20SISO_Ant1_5200



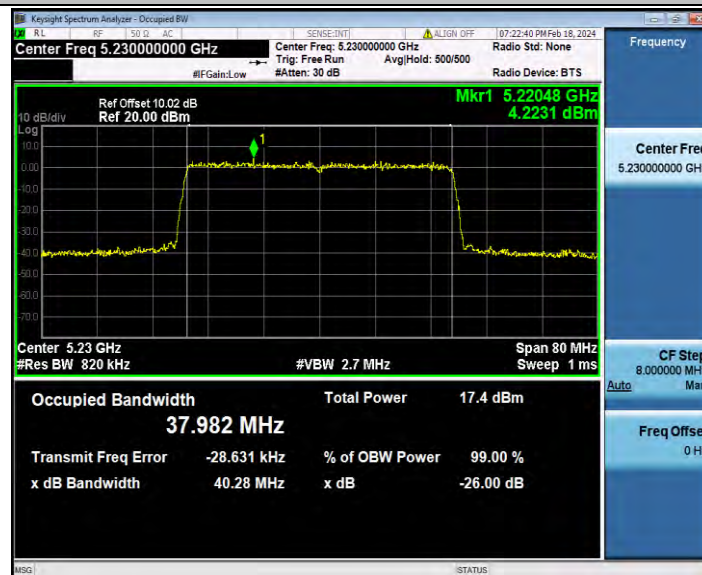
11AX20SISO_Ant1_5240



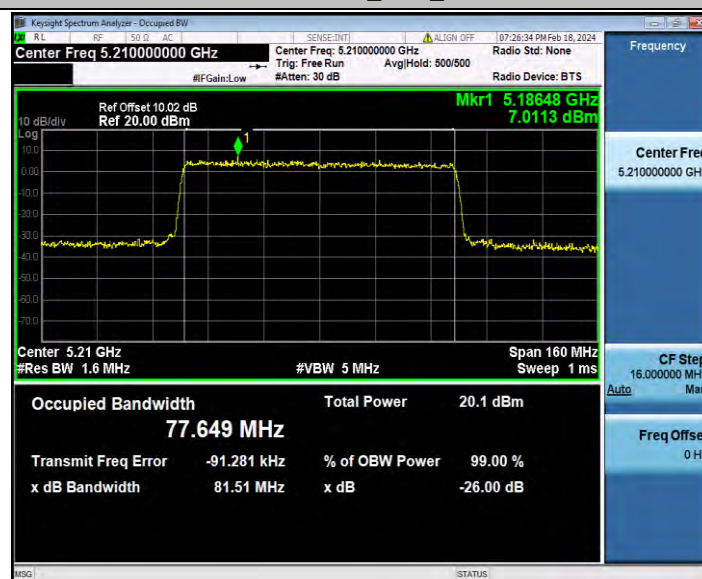
11AX40SISO_Ant1_5190



11AX40SISO_Ant1_5230



11AX80SISO_Ant1_5210

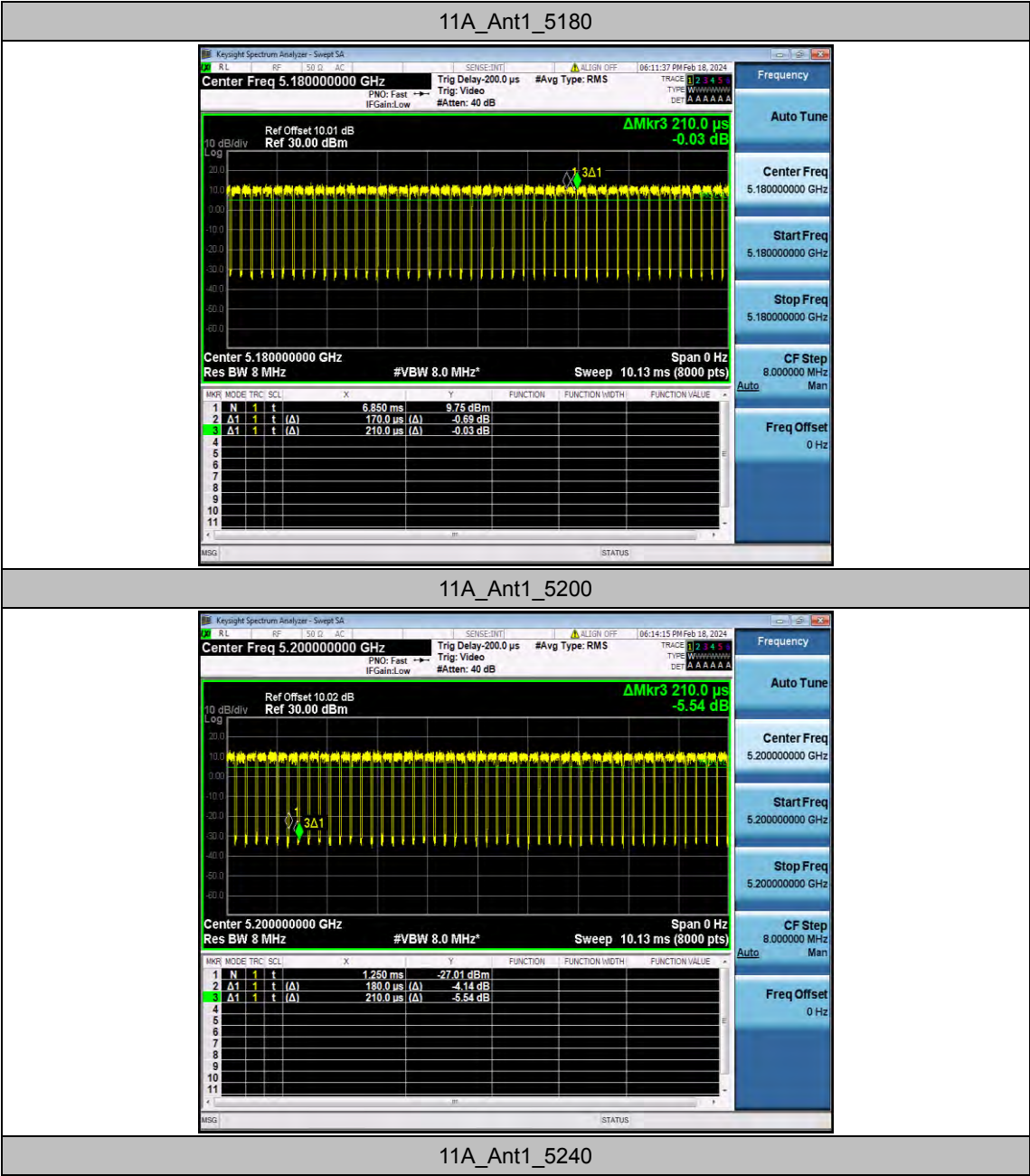


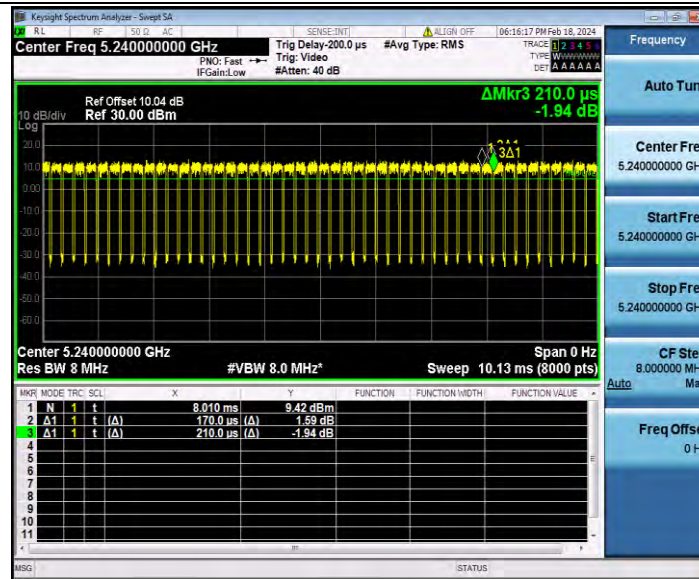
Appendix D.3: Duty Cycle

Test Result

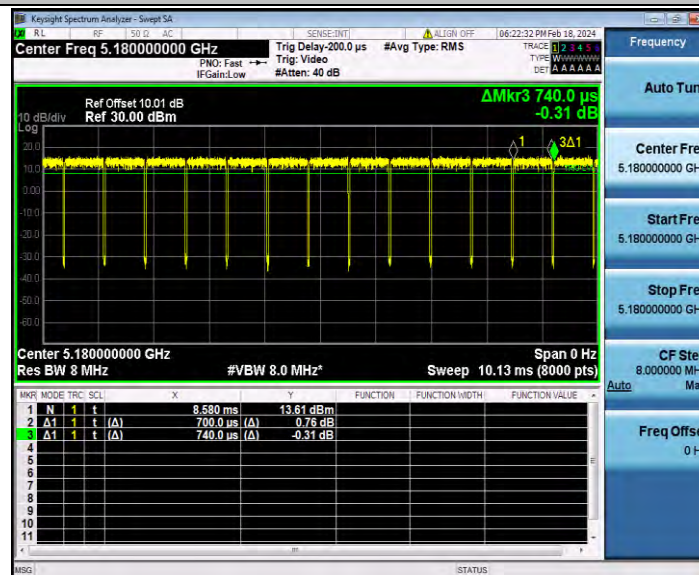
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5180	0.17	0.21	80.95	0.92	5.88
		5200	0.18	0.21	85.71	0.67	5.56
		5240	0.17	0.21	80.95	0.92	5.88
11N20SISO	Ant1	5180	0.70	0.74	94.59	0.24	1.43
		5200	0.71	0.75	94.67	0.24	1.41
		5240	0.70	0.74	94.59	0.24	1.43
11N40SISO	Ant1	5190	3.33	4.79	69.52	1.58	0.30
		5230	4.58	6.59	69.50	1.58	0.22
11AC20SISO	Ant1	5180	0.17	0.20	85.00	0.71	5.88
		5200	0.17	0.21	80.95	0.92	5.88
		5240	0.17	0.21	80.95	0.92	5.88
11AC40SISO	Ant1	5190	3.33	4.80	69.38	1.59	0.30
		5230	3.43	4.95	69.29	1.59	0.29
11AC80SISO	Ant1	5210	2.43	5.07	47.93	3.19	0.41
11AX20SISO	Ant1	5180	0.15	0.19	78.95	1.03	6.67
		5200	0.15	0.19	78.95	1.03	6.67
		5240	0.16	0.19	84.21	0.75	6.25
11AX40SISO	Ant1	5190	2.89	5.07	57.00	2.44	0.35
		5230	2.88	5.07	56.80	2.46	0.35
11AX80SISO	Ant1	5210	2.53	5.08	49.80	3.03	0.40

Test Graphs

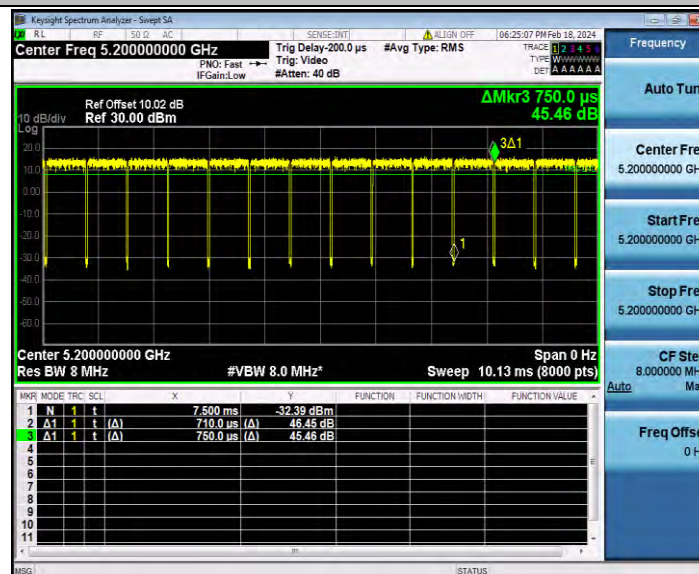




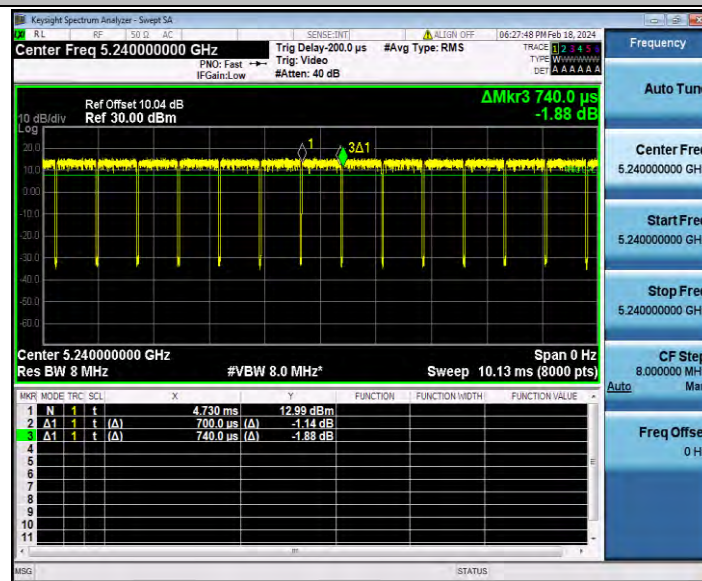
11N20SISO_Ant1_5180



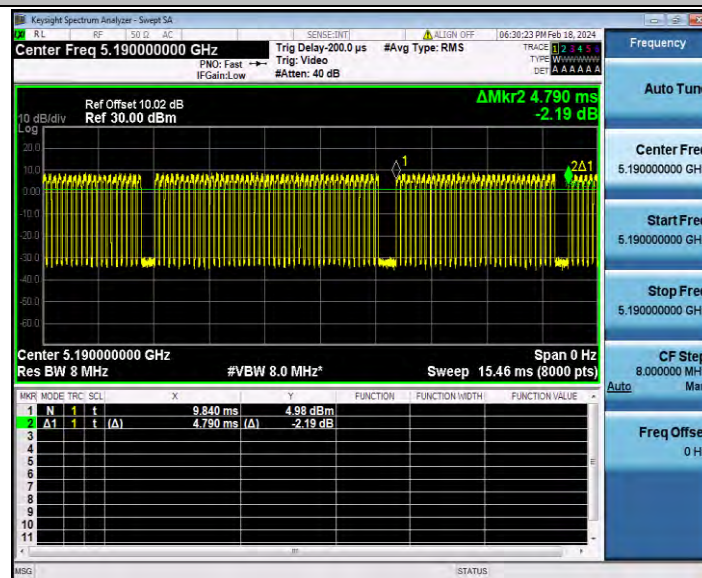
11N20SISO_Ant1_5200



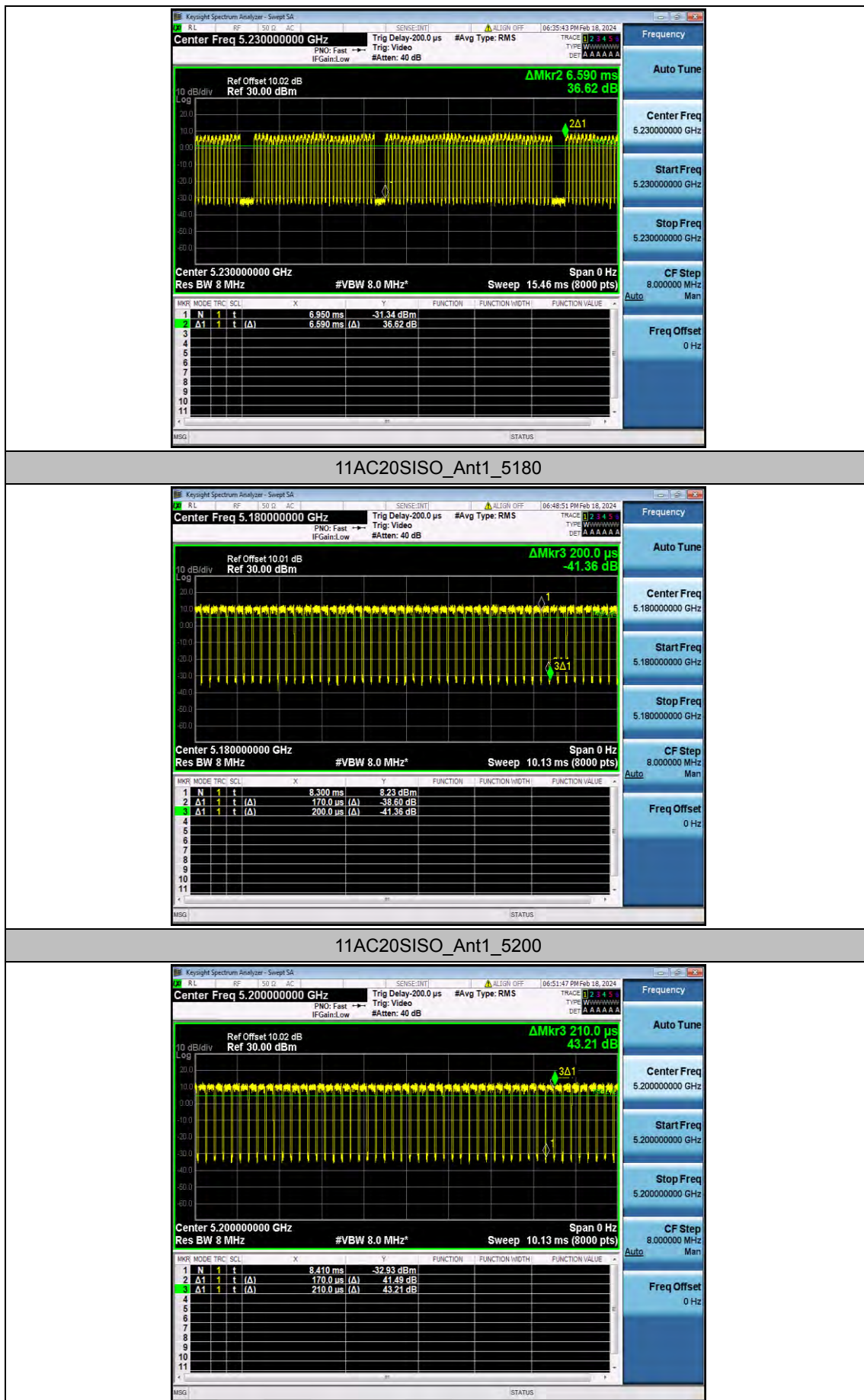
11N20SISO_Ant1_5240



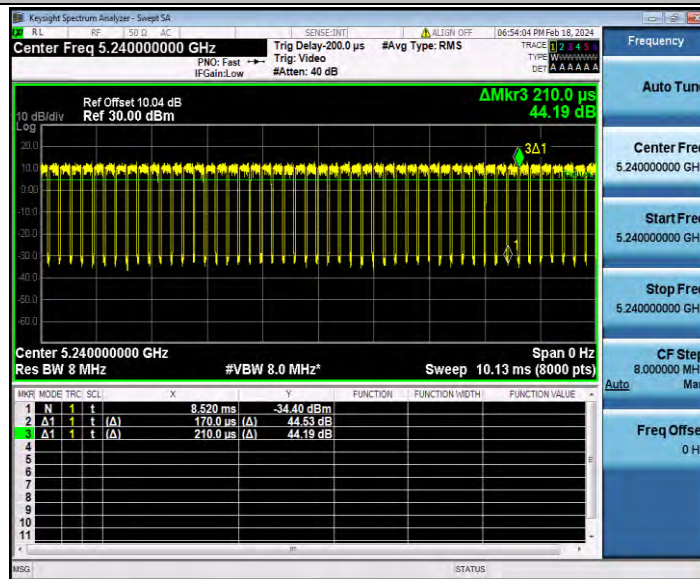
11N40SISO_Ant1_5190



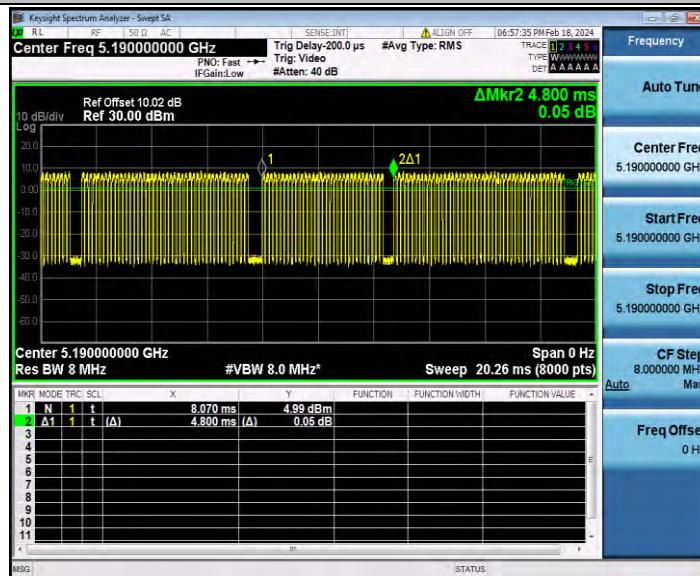
11N40SISO_Ant1_5230



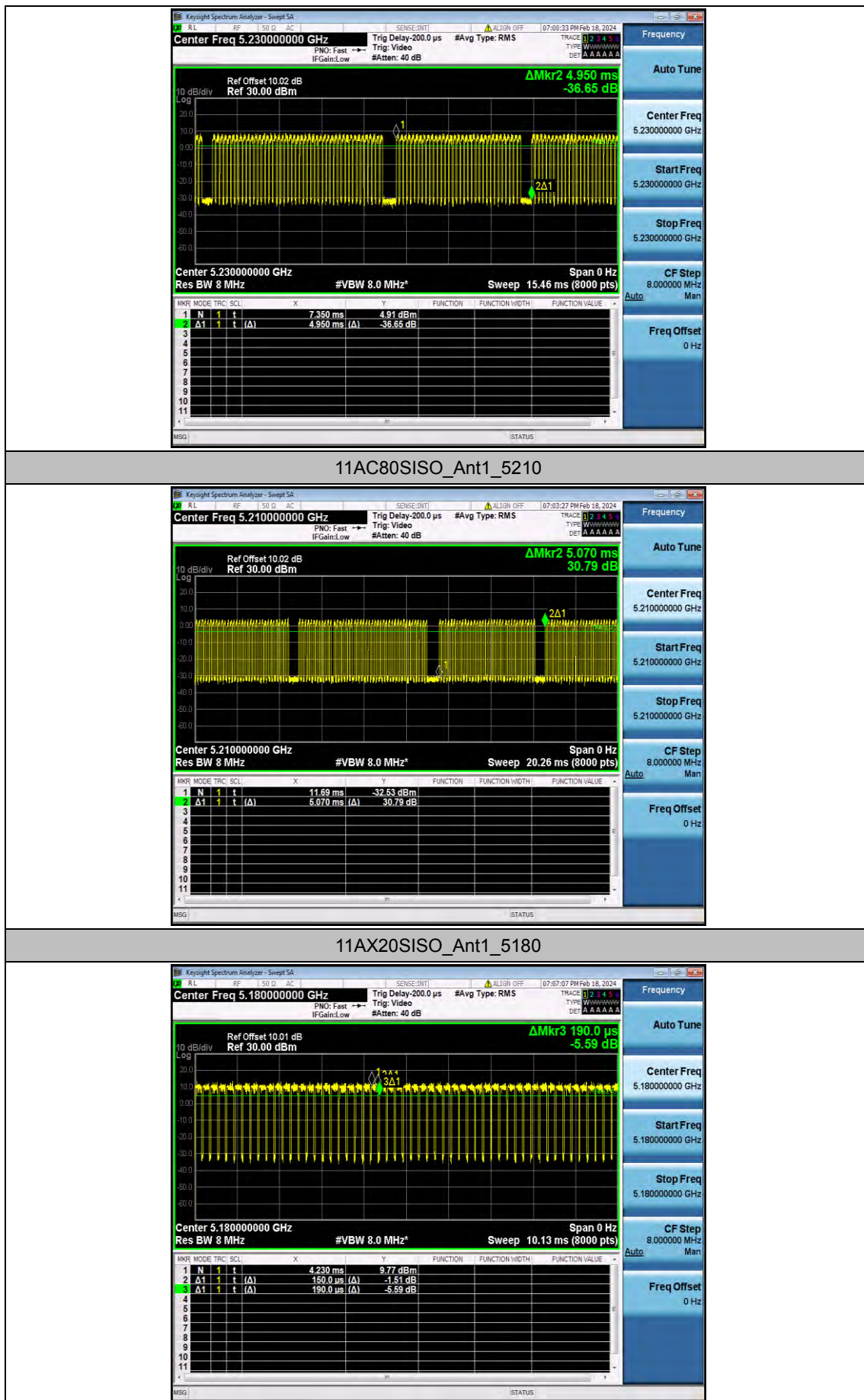
11AC20SISO_Ant1_5240



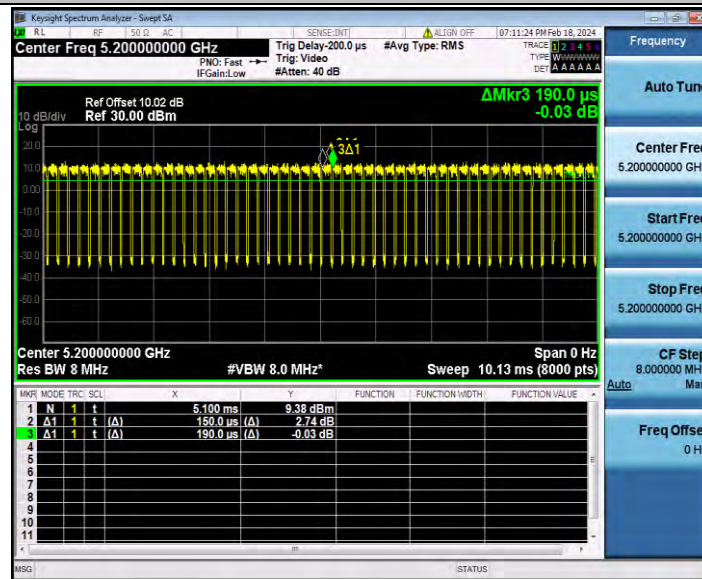
11AC40SISO_Ant1_5190



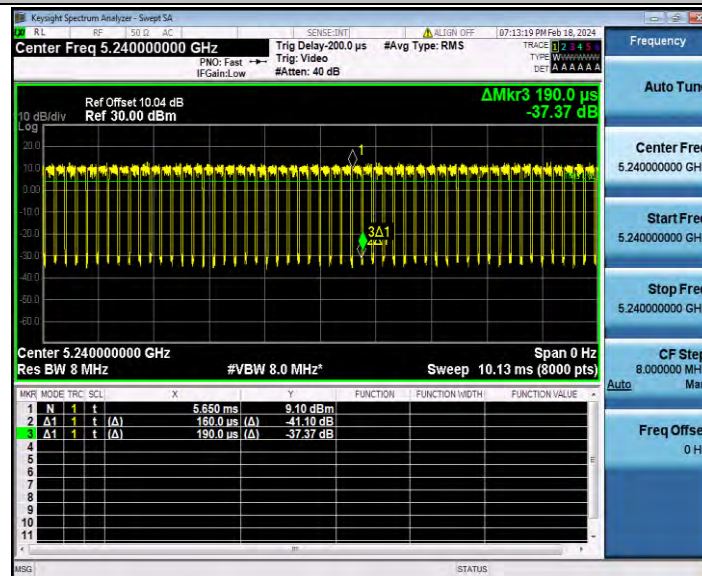
11AC40SISO_Ant1_5230



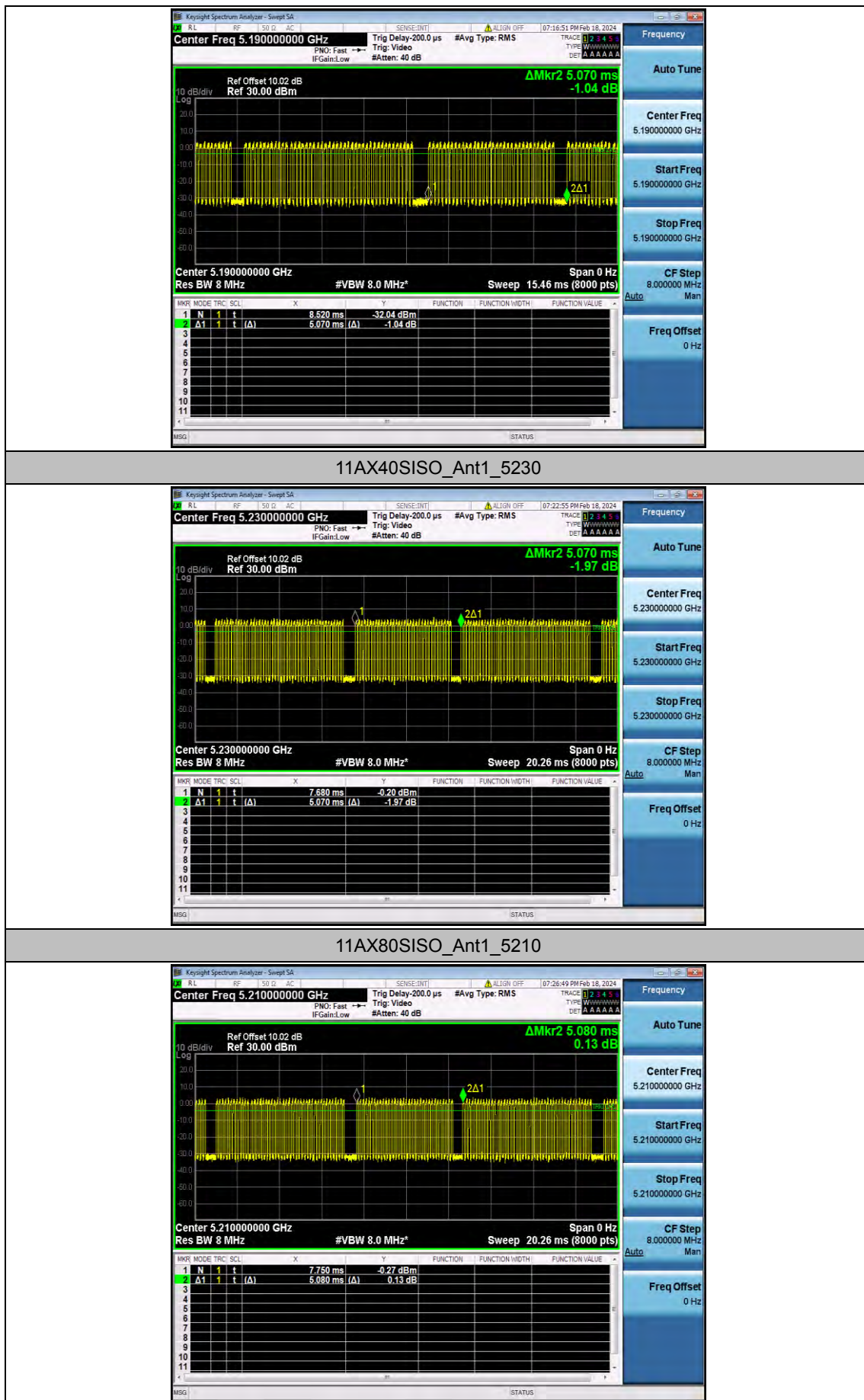
11AX20SISO_Ant1_5200



11AX20SISO_Ant1_5240



11AX40SISO_Ant1_5190



Appendix D.4: Maximum conducted output power

Test Result

Test Mode	Antenna	Freq (MHz)	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	12.43	80.95	0.92	13.35	≤23.98	PASS
		5200	12.20	85.71	0.67	12.87	≤23.98	PASS
		5240	11.79	80.95	0.92	12.71	≤23.98	PASS
11N20SISO	Ant1	5180	16.28	94.59	0.24	16.52	≤23.98	PASS
		5200	16.24	94.67	0.24	16.48	≤23.98	PASS
		5240	15.79	94.59	0.24	16.03	≤23.98	PASS
11N40SISO	Ant1	5190	10.35	69.52	1.58	11.93	≤23.98	PASS
		5230	10.18	69.50	1.58	11.76	≤23.98	PASS
11AC20SISO	Ant1	5180	12.69	85.00	0.71	13.40	≤23.98	PASS
		5200	12.36	80.95	0.92	13.28	≤23.98	PASS
		5240	12.09	80.95	0.92	13.01	≤23.98	PASS
11AC40SISO	Ant1	5190	10.30	69.38	1.59	11.89	≤23.98	PASS
		5230	10.26	69.29	1.59	11.85	≤23.98	PASS
11AC80SISO	Ant1	5210	7.94	47.93	3.19	11.13	≤23.98	PASS
11AX20SISO	Ant1	5180	12.54	78.95	1.03	13.57	≤23.98	PASS
		5200	12.21	78.95	1.03	13.24	≤23.98	PASS
		5240	11.84	84.21	0.75	12.59	≤23.98	PASS
11AX40SISO	Ant1	5190	6.60	57.00	2.44	9.04	≤23.98	PASS
		5230	6.88	56.80	2.46	9.34	≤23.98	PASS
11AX80SISO	Ant1	5210	8.57	49.80	3.03	11.60	≤23.98	PASS

Note:

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

Appendix D.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	2.52	≤11.00	PASS
		5200	2.05	≤11.00	PASS
		5240	2.20	≤11.00	PASS
11N20SISO	Ant1	5180	5.46	≤11.00	PASS
		5200	5.41	≤11.00	PASS
		5240	5.14	≤11.00	PASS
11N40SISO	Ant1	5190	-0.97	≤11.00	PASS
		5230	-0.75	≤11.00	PASS
11AC20SISO	Ant1	5180	2.20	≤11.00	PASS
		5200	2.12	≤11.00	PASS
		5240	2.10	≤11.00	PASS
11AC40SISO	Ant1	5190	-0.92	≤11.00	PASS
		5230	-0.99	≤11.00	PASS
11AC80SISO	Ant1	5210	-4.24	≤11.00	PASS
11AX20SISO	Ant1	5180	2.03	≤11.00	PASS
		5200	1.91	≤11.00	PASS
		5240	1.30	≤11.00	PASS
11AX40SISO	Ant1	5190	-5.43	≤11.00	PASS
		5230	-4.86	≤11.00	PASS
11AX80SISO	Ant1	5210	-5.18	≤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



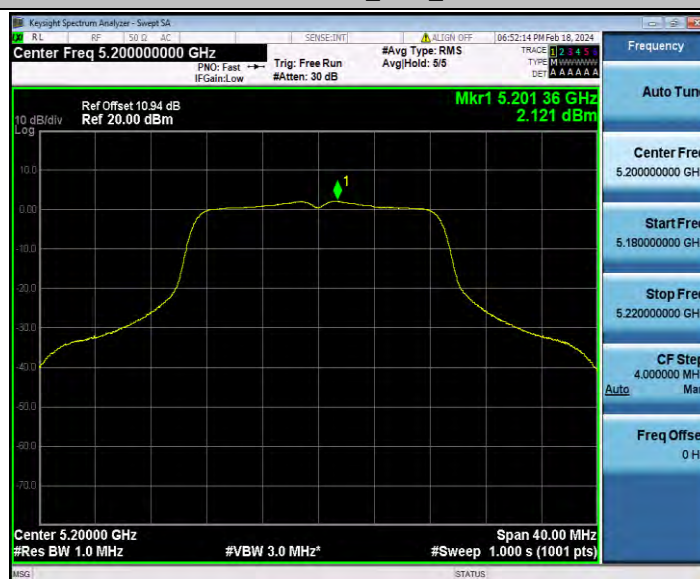
11N40SISO_Ant1_5230



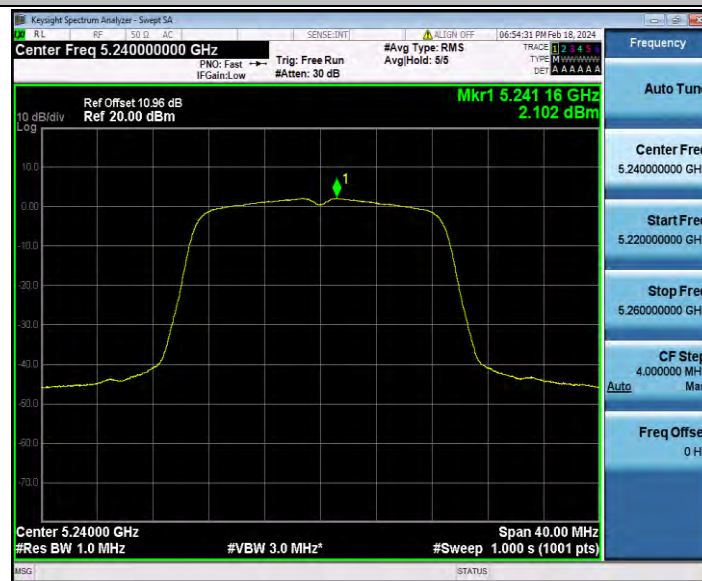
11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



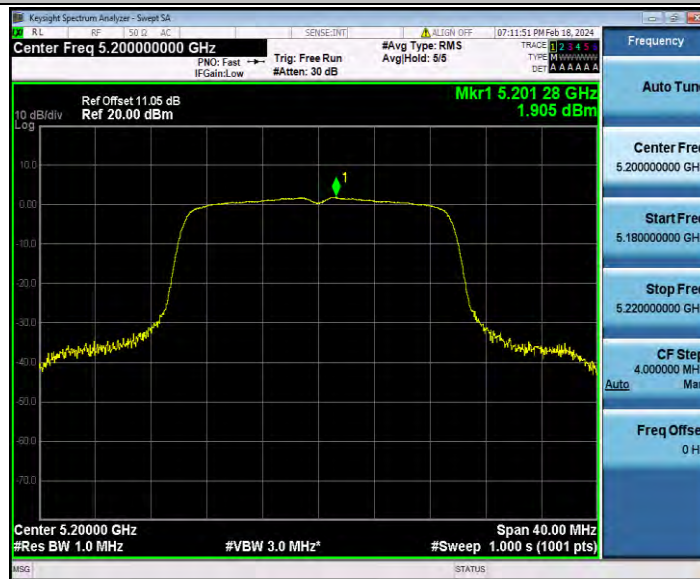
11AC80SISO_Ant1_5210



11AX20SISO_Ant1_5180



11AX20SISO_Ant1_5200



11AX20SISO_Ant1_5240



11AX40SISO_Ant1_5190



11AX40SISO_Ant1_5230



11AX80SISO_Ant1_5210

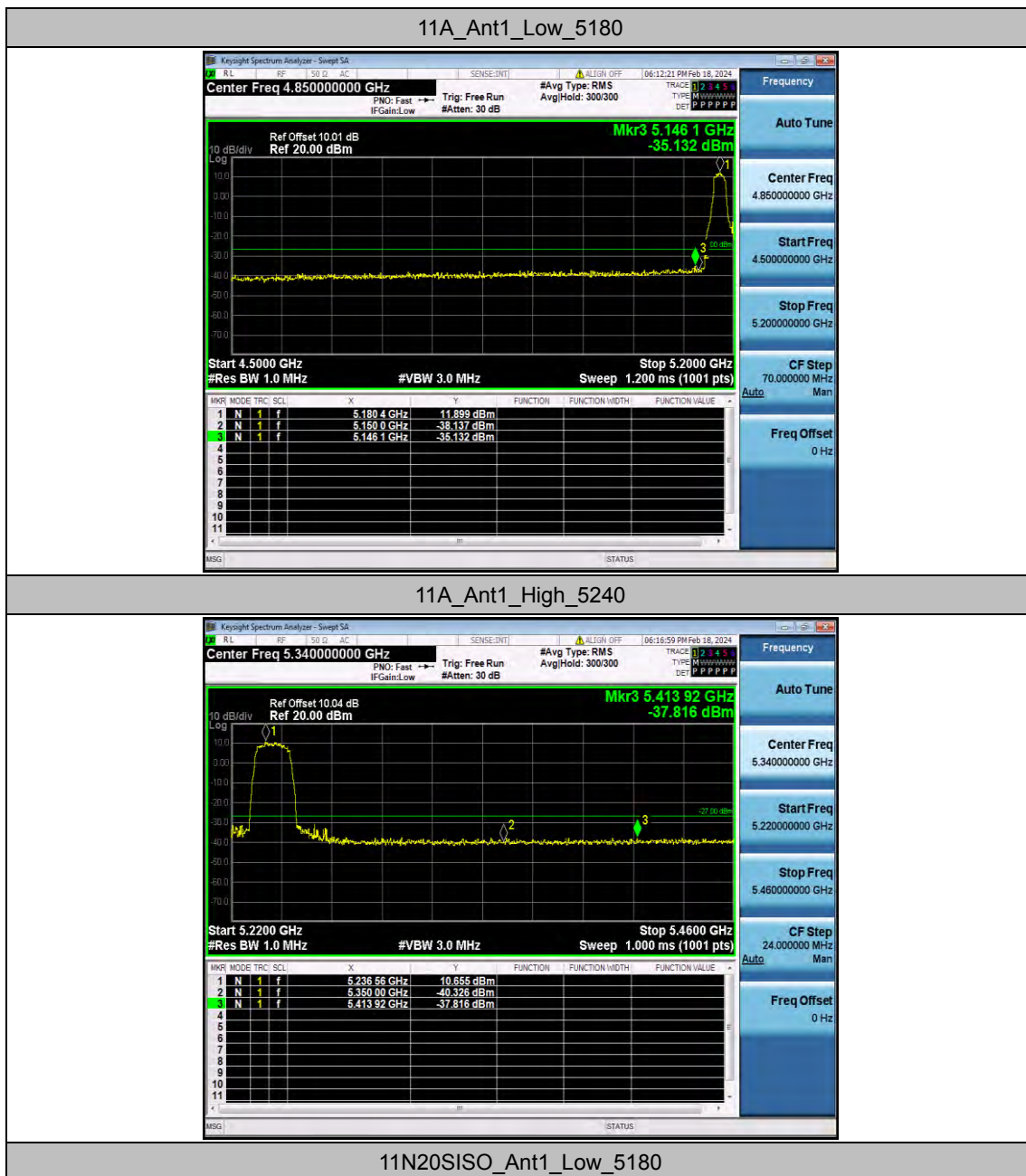


Appendix D.6: Band edge measurements

Test Result B1

TestMode	Antenna	ChName	Freq(MHz)	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-35.13	≤ -27	PASS
		High	5240	-37.82	≤ -27	PASS
11N20SISO	Ant1	Low	5180	-30.72	≤ -27	PASS
		High	5240	-36.3	≤ -27	PASS
11N40SISO	Ant1	Low	5190	-36.79	≤ -27	PASS
		High	5230	-37.64	≤ -27	PASS
11AC20SISO	Ant1	Low	5180	-36.49	≤ -27	PASS
		High	5240	-36.74	≤ -27	PASS
11AC40SISO	Ant1	Low	5190	-35.98	≤ -27	PASS
		High	5230	-36.83	≤ -27	PASS
11AC80SISO	Ant1	Low	5210	-35.04	≤ -27	PASS
		High	5210	-36.68	≤ -27	PASS
11AX20SISO	Ant1	Low	5180	-35.74	≤ -27	PASS
		High	5240	-37.42	≤ -27	PASS
11AX40SISO	Ant1	Low	5190	-36.79	≤ -27	PASS
		High	5230	-37.54	≤ -27	PASS
11AX80SISO	Ant1	Low	5210	-32.87	≤ -27	PASS
		High	5210	-37.75	≤ -27	PASS

Test Graphs B1

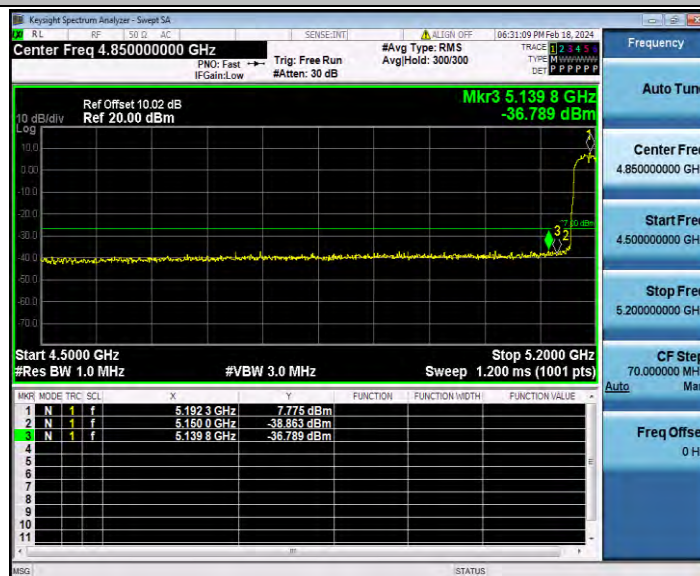




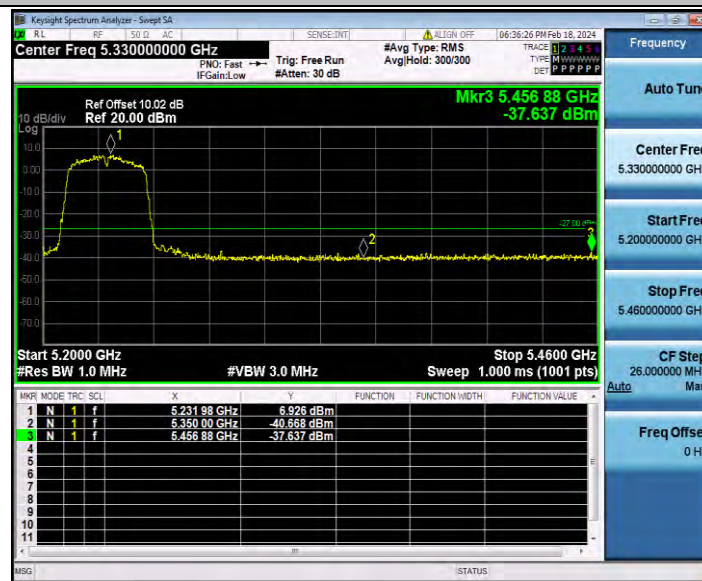
11N20SISO_Ant1_High_5240



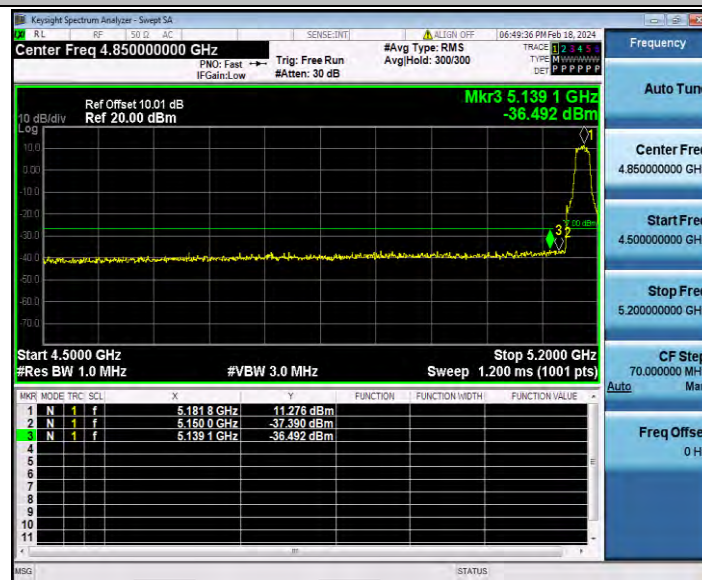
11N40SISO_Ant1_Low_5190



11N40SISO_Ant1_High_5230



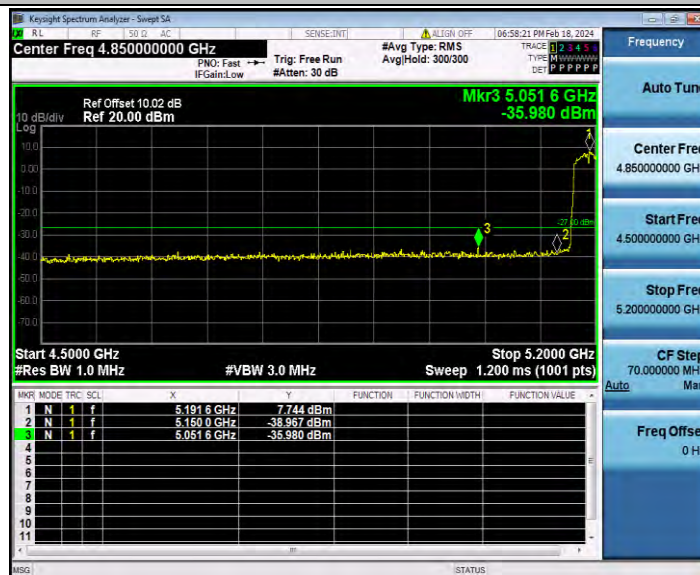
11AC20SISO_Ant1_Low_5180



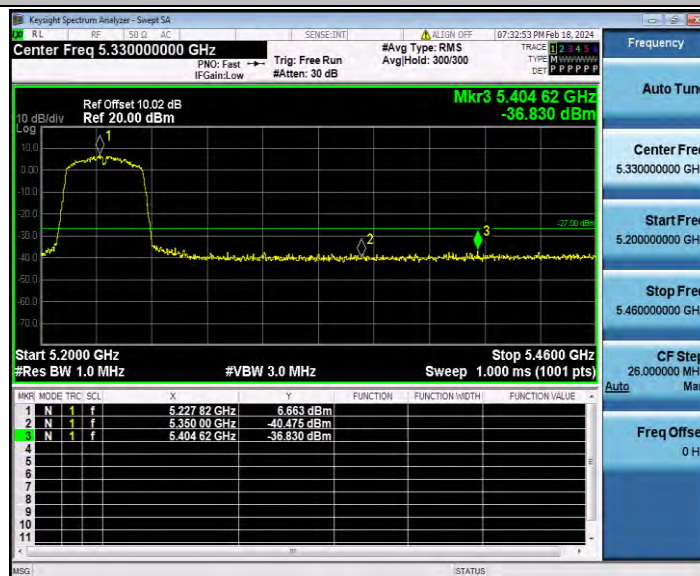
11AC20SISO_Ant1_High_5240



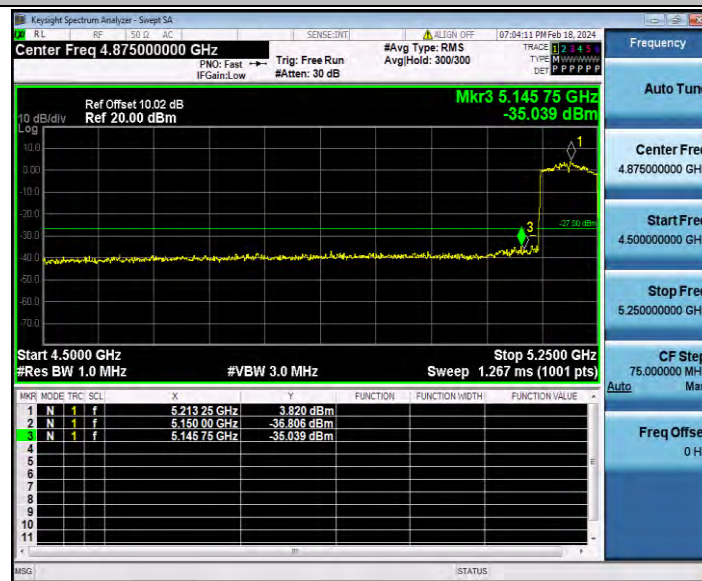
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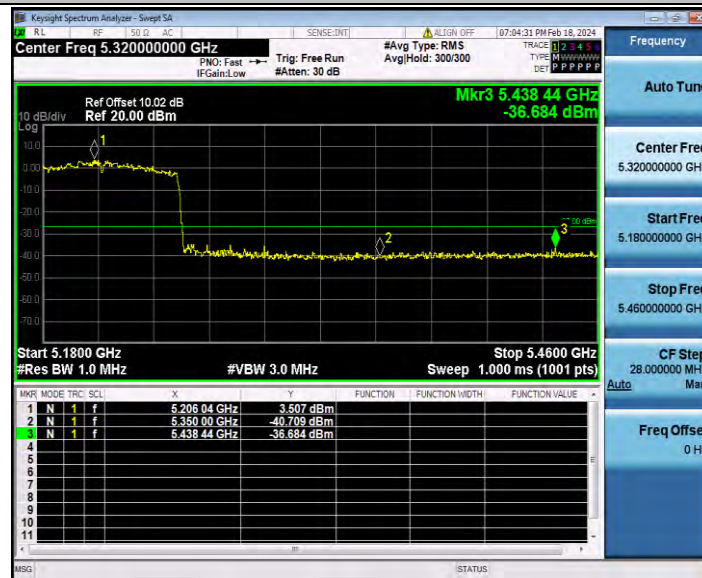
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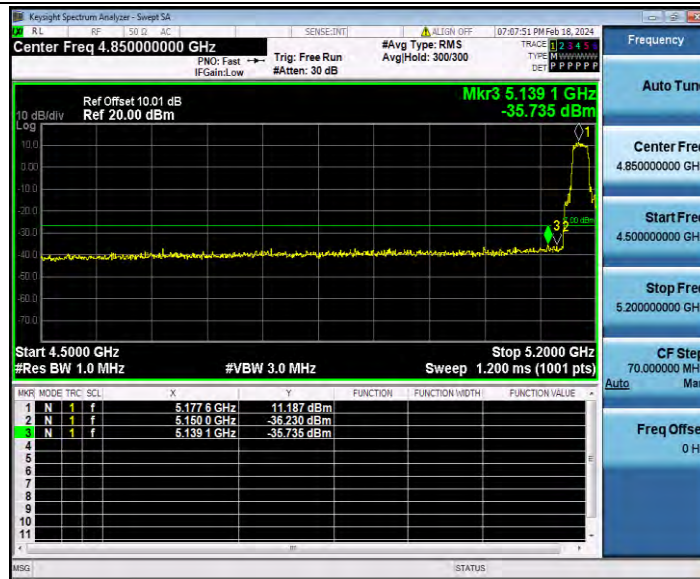
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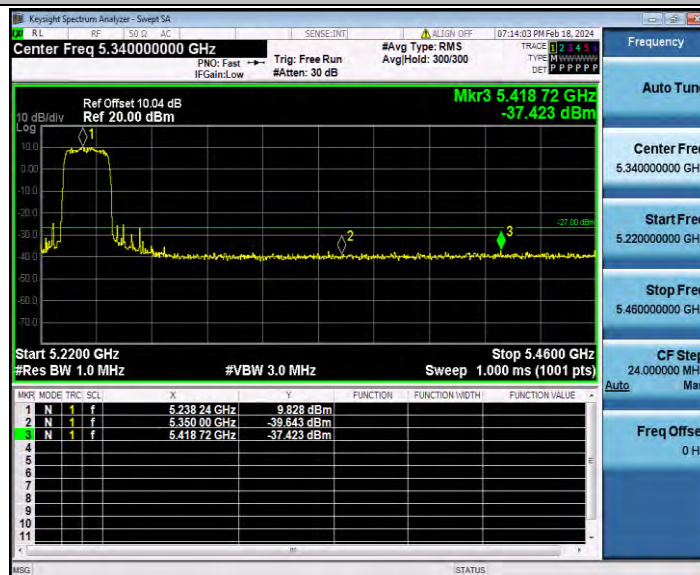
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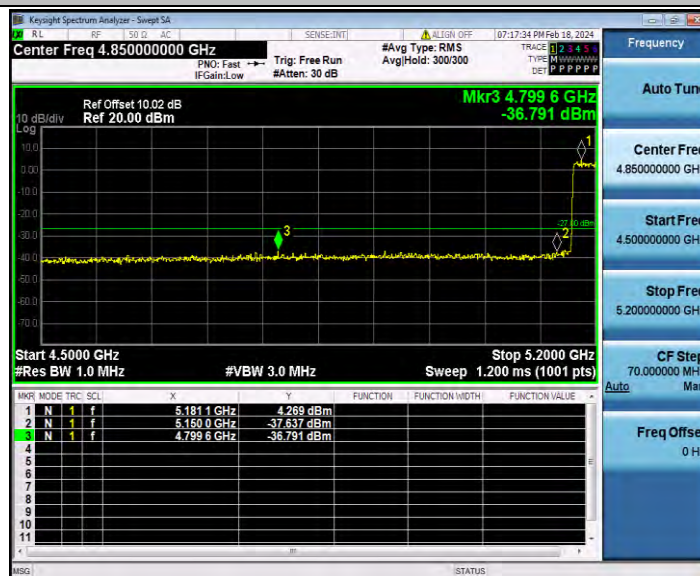
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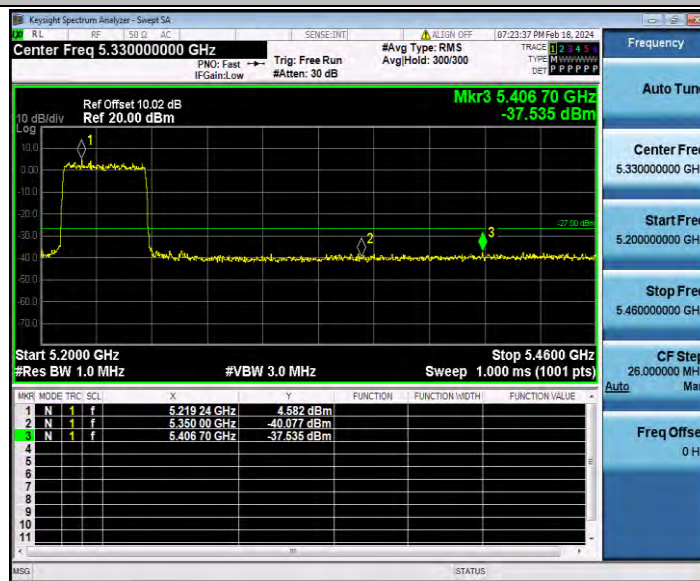
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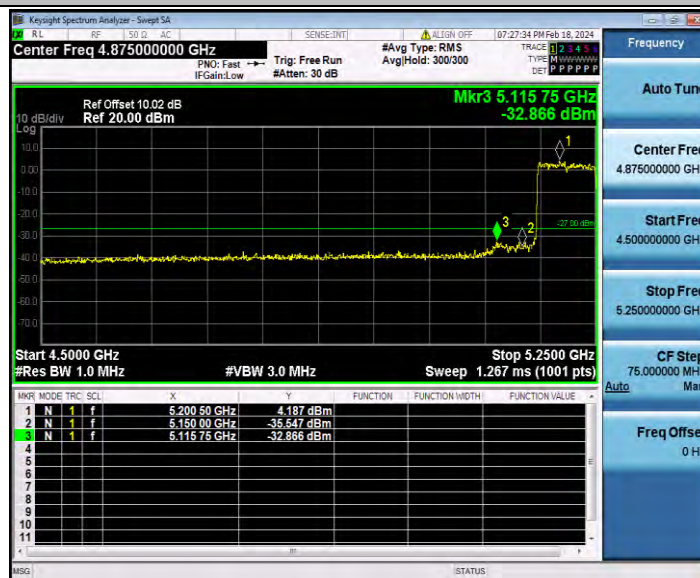
11AX40SISO_Ant1_Low_5190



11AX40SISO_Ant1_High_5230



11AX80SISO_Ant1_Low_5210



11AX80SISO_Ant1_High_5210

