

Case No. : <u>GTS20231208004-1-65</u>	
Ambient Condition: <u>22</u> °C, <u>48</u> %RH	
According Standard: <u>■Part15E</u>	
Test Date: <u>2024.2.28</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	19.960	5169.960	5189.920	---	---
		5200	19.960	5190.040	5210.000	---	---
		5240	20.000	5229.960	5249.960	---	---
11N20SISO	Ant1	5180	20.520	5169.600	5190.120	---	---
		5200	20.560	5189.640	5210.200	---	---
		5240	20.400	5229.680	5250.080	---	---
11N40SISO	Ant1	5190	39.760	5170.080	5209.840	---	---
		5230	39.760	5210.080	5249.840	---	---
11AC20SISO	Ant1	5180	20.440	5169.800	5190.240	---	---
		5200	20.560	5189.760	5210.320	---	---
		5240	20.520	5229.720	5250.240	---	---
11AC40SISO	Ant1	5190	39.600	5170.160	5209.760	---	---
		5230	39.280	5210.400	5249.680	---	---
11AX20SISO	Ant1	5180	20.840	5169.520	5190.360	---	---
		5200	20.960	5189.440	5210.400	---	---
		5240	20.760	5229.600	5250.360	---	---
11AX40SISO	Ant1	5190	40.000	5169.920	5209.920	---	---
		5230	39.760	5210.080	5249.840	---	---

Test Graphs

11A_Ant1_5180



11A_Ant1_5200



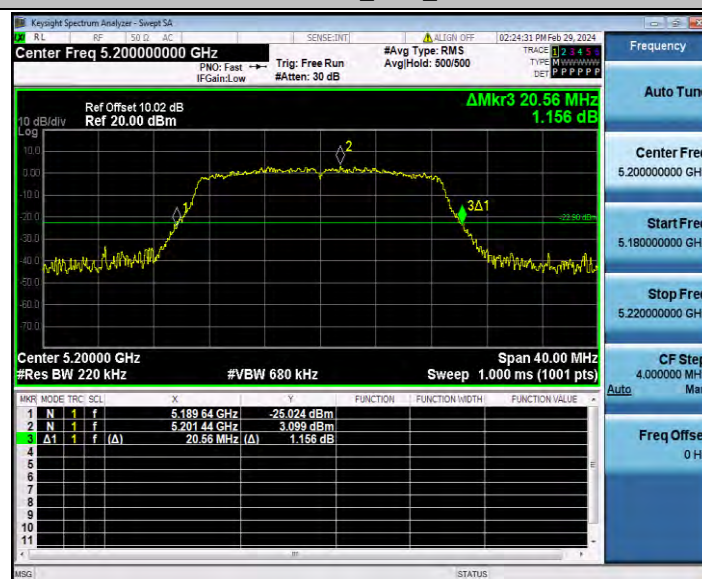
11A_Ant1_5240



11N20SISO_Ant1_5180



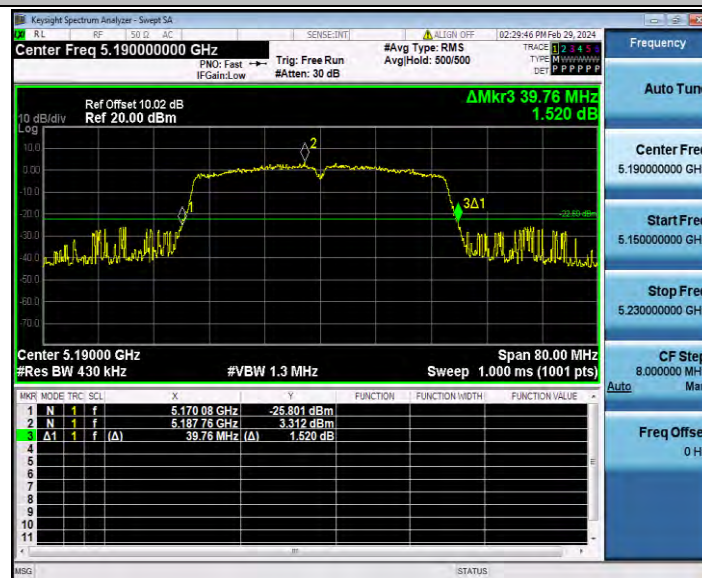
11N20SISO_Ant1_5200



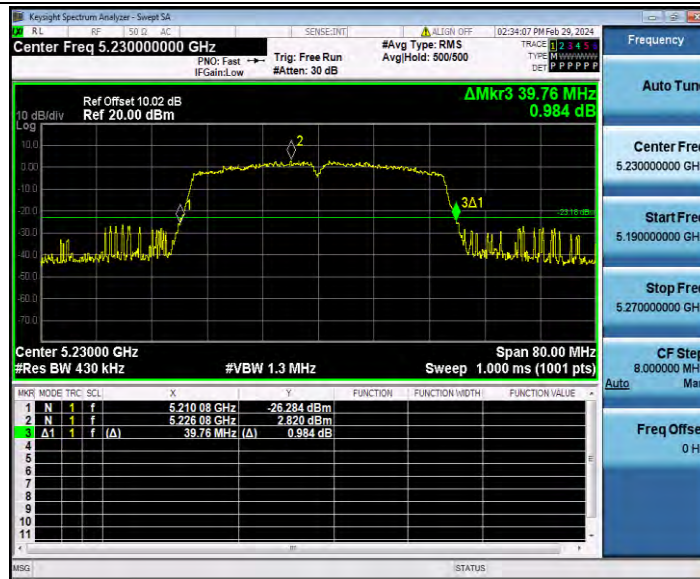
11N20SISO_Ant1_5240



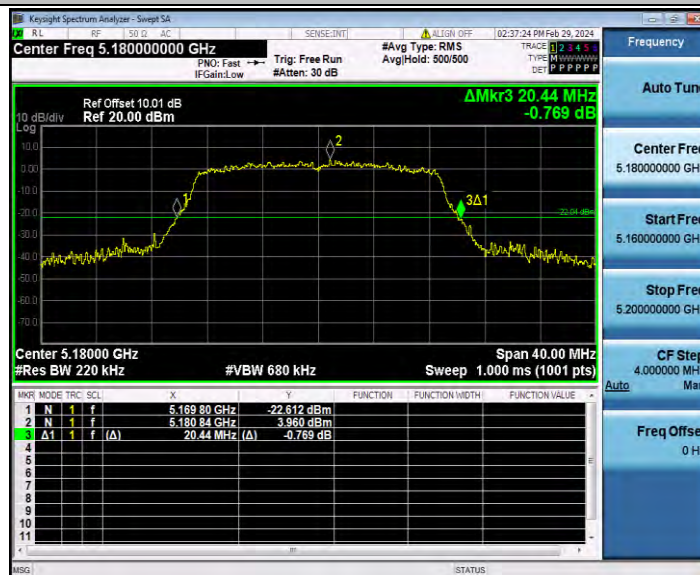
11N40SISO_Ant1_5190



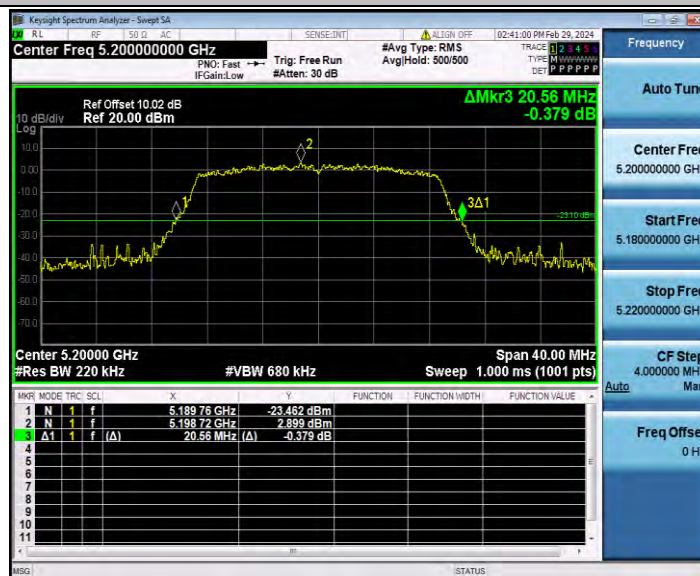
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



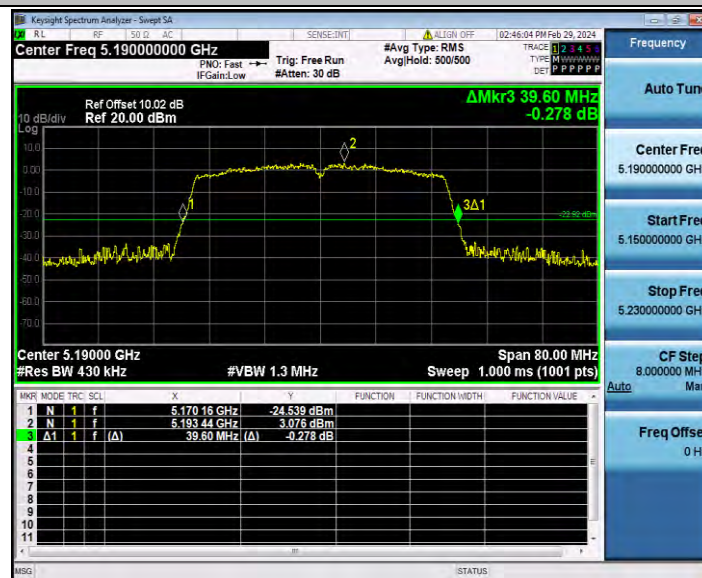
11AC20SISO_Ant1_5200



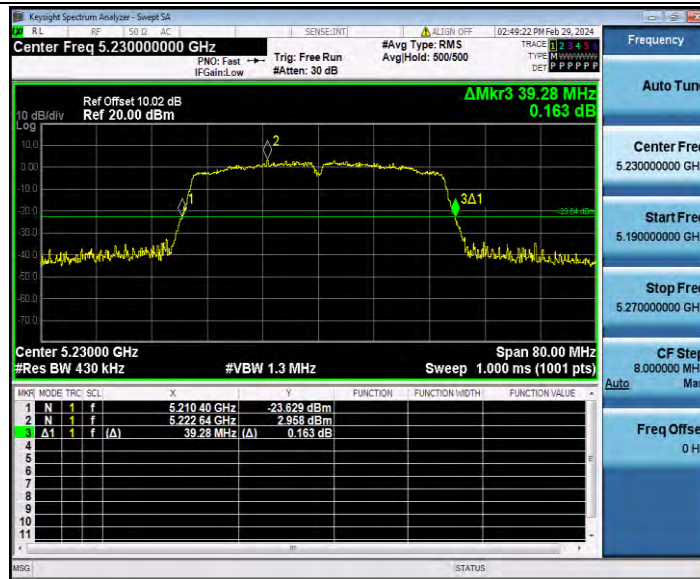
11AC20SISO_Ant1_5240



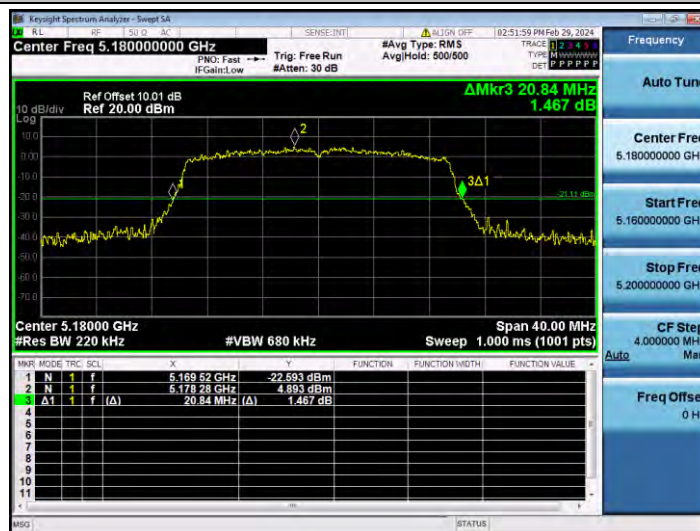
11AC40SISO_Ant1_5190



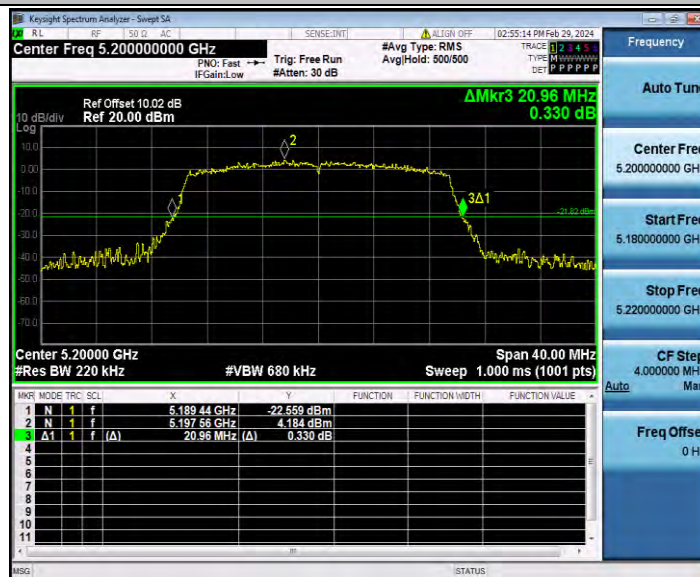
11AC40SISO_Ant1_5230



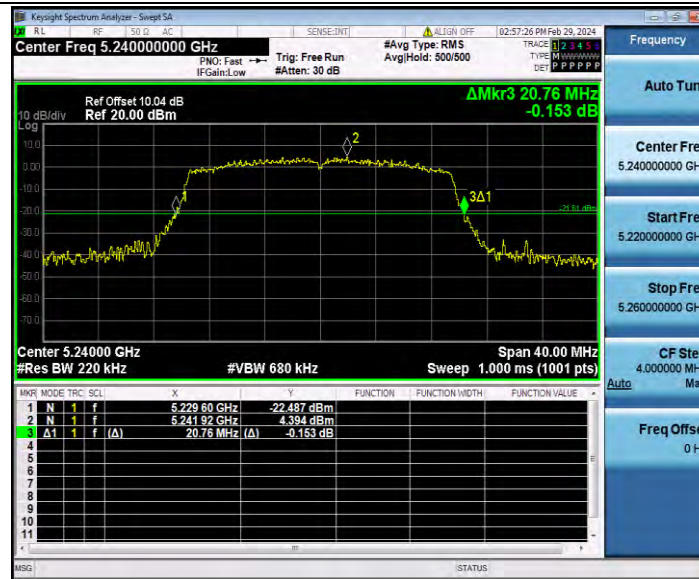
11AX20SISO_Ant1_5180



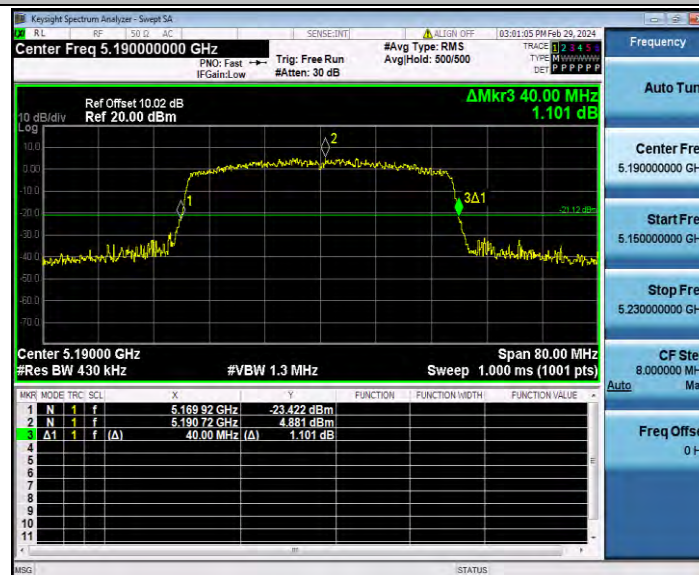
11AX20SISO_Ant1_5200



11AX20SISO_Ant1_5240



11AX40SISO_Ant1_5190



11AX40SISO_Ant1_5230



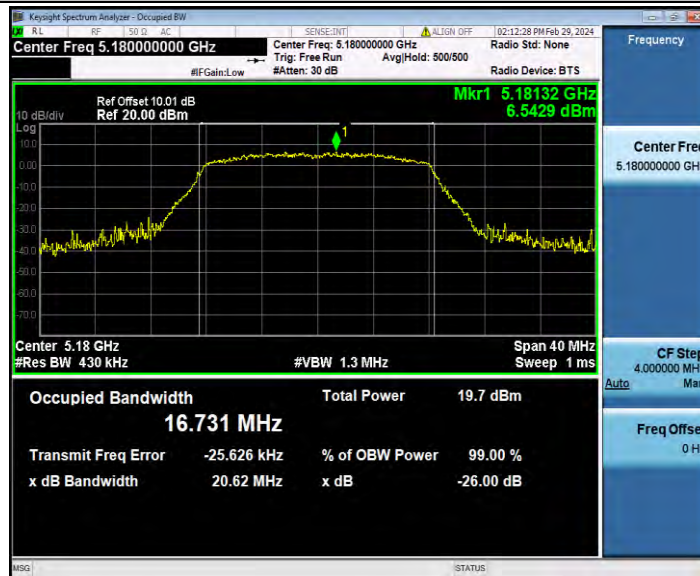
Appendix D.2: Occupied channel bandwidth

Test Result

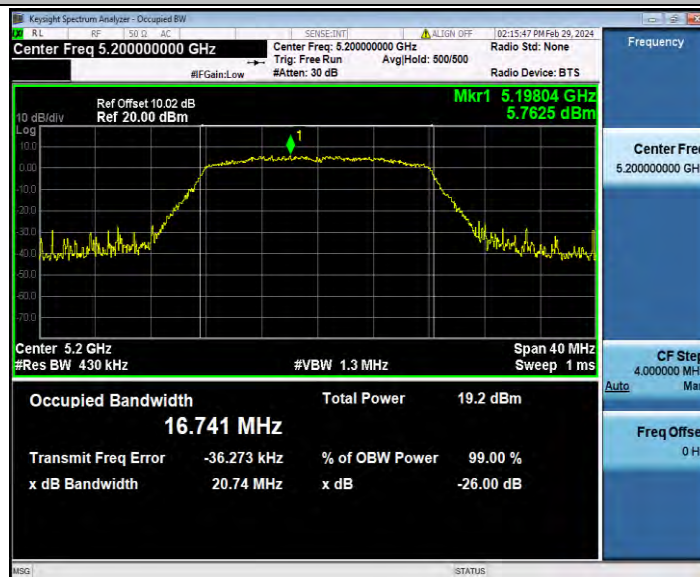
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.731	5171.6089	5188.3399	---	---
		5200	16.741	5191.5932	5208.3342	---	---
		5240	16.759	5231.5730	5248.3320	---	---
11N20SISO	Ant1	5180	17.726	5171.1274	5188.8534	---	---
		5200	17.698	5191.1305	5208.8285	---	---
		5240	17.683	5231.1277	5248.8107	---	---
11N40SISO	Ant1	5190	36.044	5171.9940	5208.0380	---	---
		5230	35.926	5211.9746	5247.9006	---	---
11AC20SISO	Ant1	5180	17.712	5171.1238	5188.8358	---	---
		5200	17.715	5191.1200	5208.8350	---	---
		5240	17.724	5231.1140	5248.8380	---	---
11AC40SISO	Ant1	5190	36.019	5172.0079	5208.0269	---	---
		5230	35.867	5212.0499	5247.9169	---	---
11AX20SISO	Ant1	5180	18.756	5170.6018	5189.3578	---	---
		5200	18.785	5190.5956	5209.3806	---	---
		5240	18.743	5230.5967	5249.3397	---	---
11AX40SISO	Ant1	5190	37.276	5171.3549	5208.6309	---	---
		5230	37.159	5211.3426	5248.5016	---	---

Test Graphs

11A_Ant1_5180



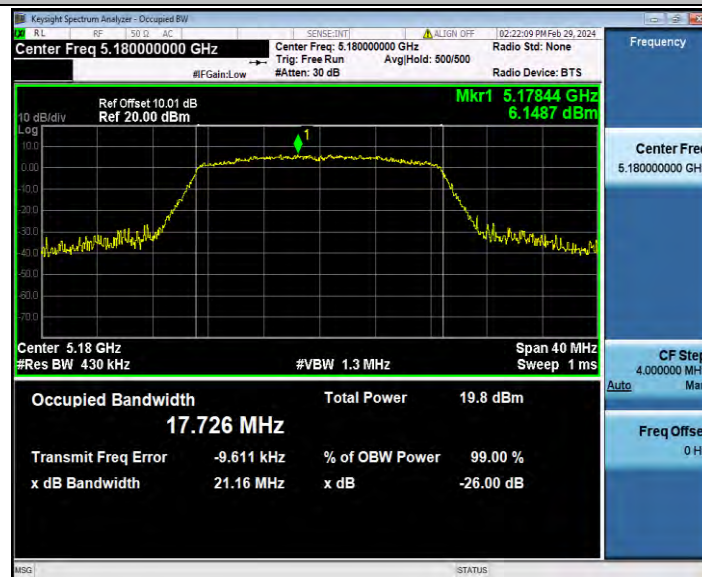
11A_Ant1_5200



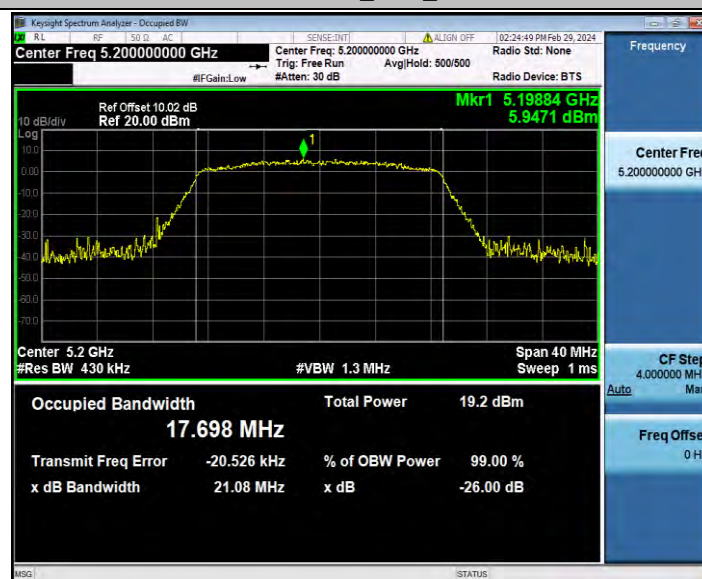
11A_Ant1_5240



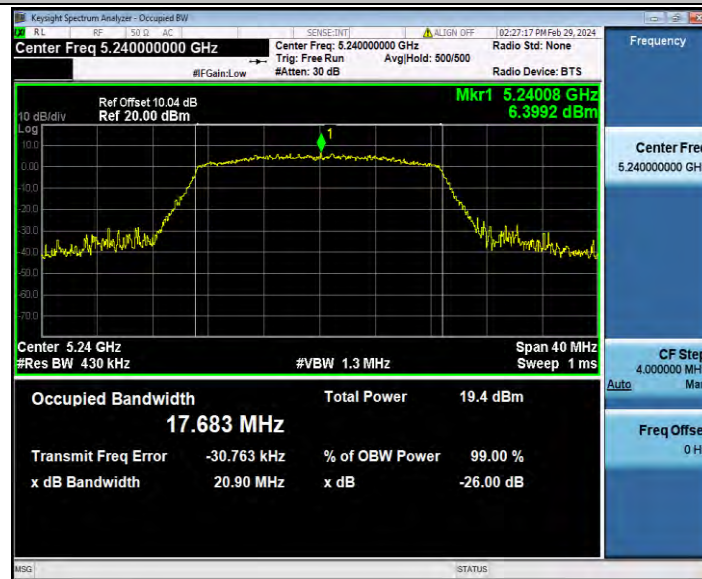
11N20SISO_Ant1_5180



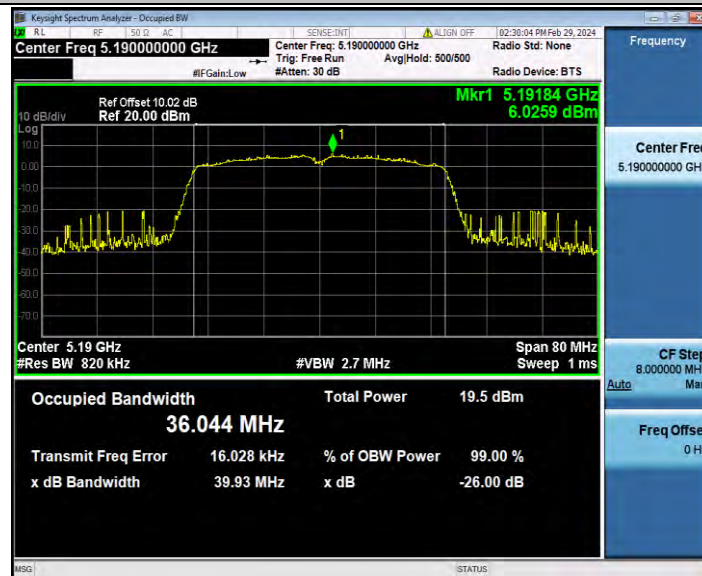
11N20SISO_Ant1_5200



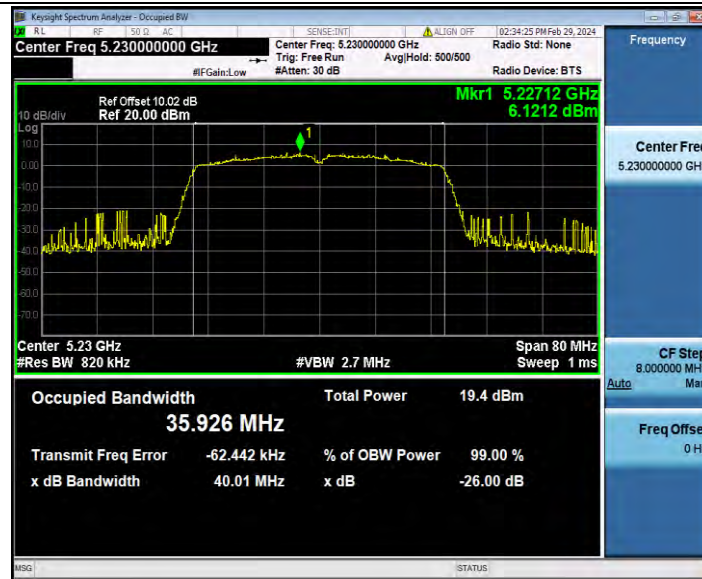
11N20SISO_Ant1_5240



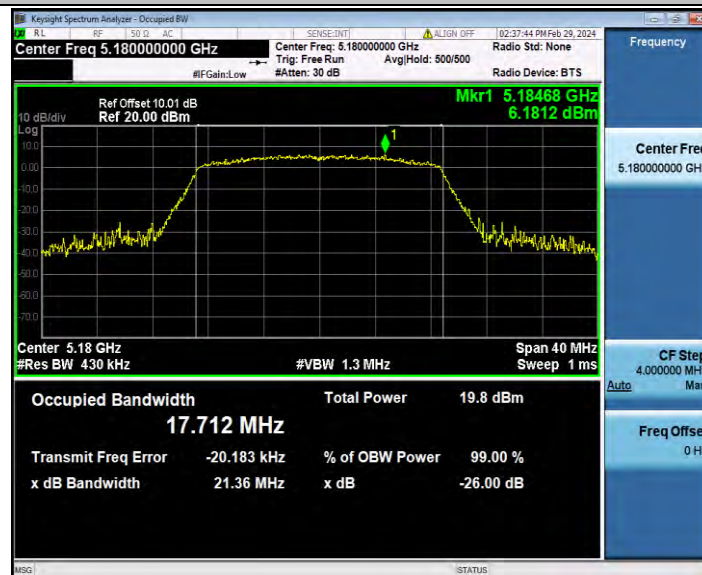
11N40SISO_Ant1_5190



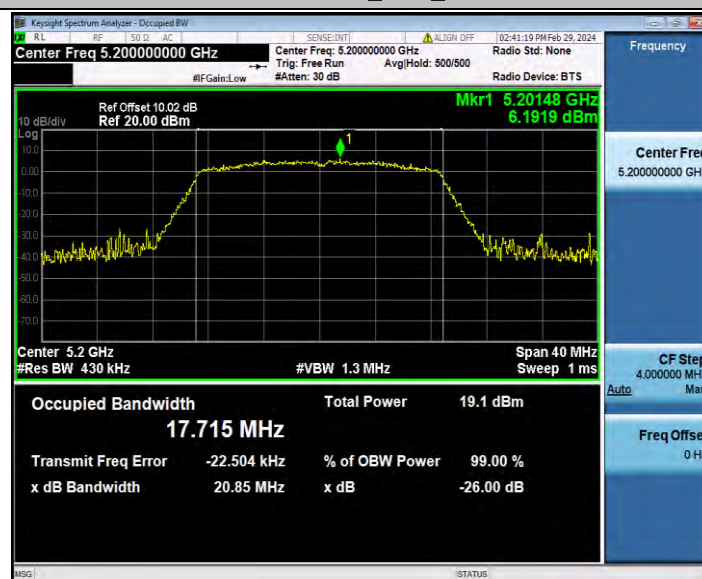
11N40SISO_Ant1_5230



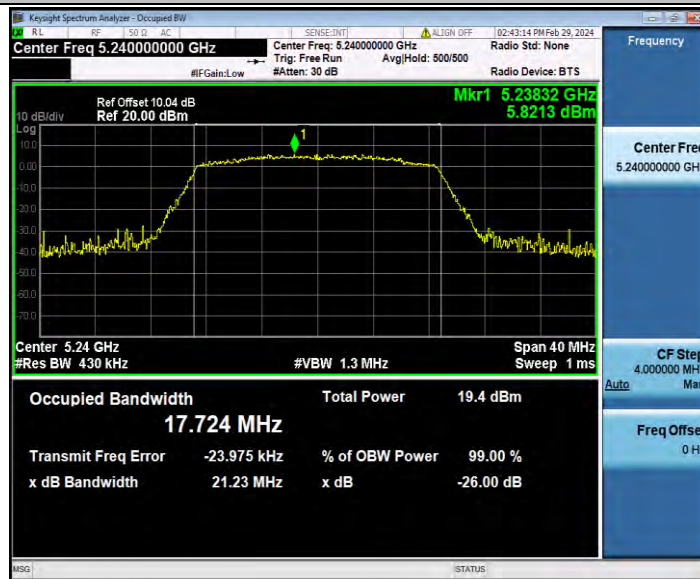
11AC20SISO_Ant1_5180



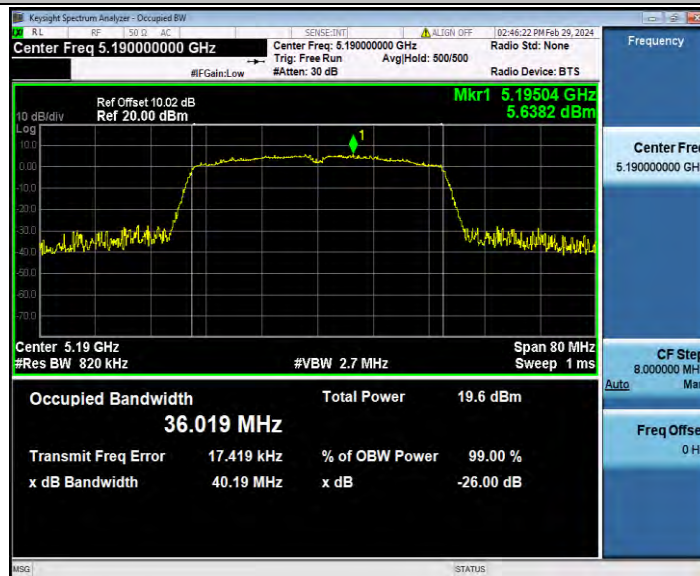
11AC20SISO_Ant1_5200



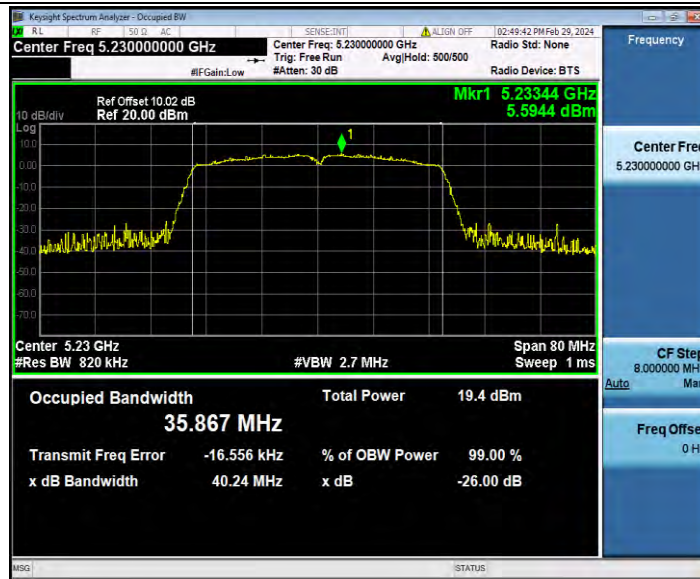
11AC20SISO_Ant1_5240



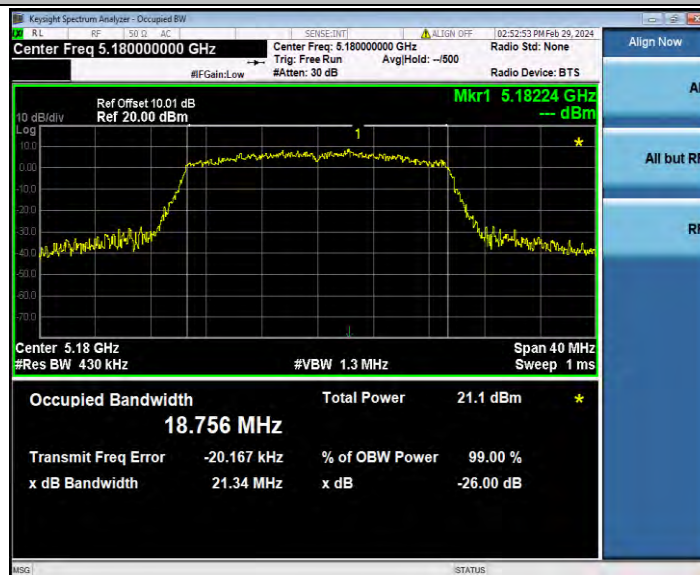
11AC40SISO_Ant1_5190



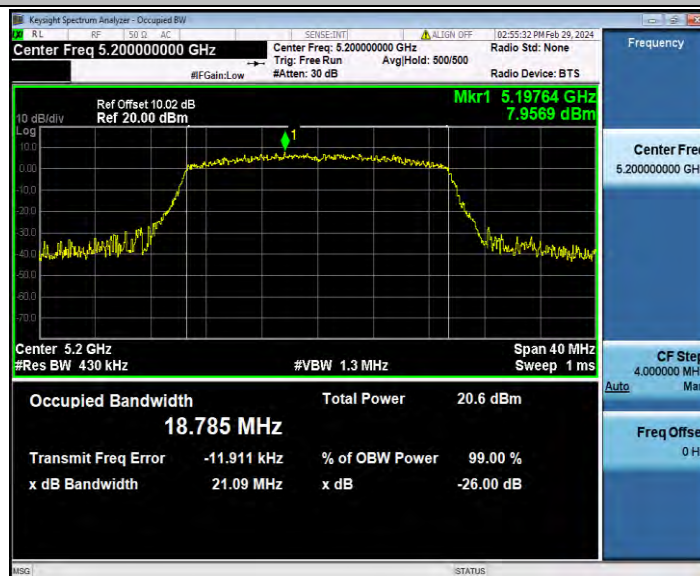
11AC40SISO_Ant1_5230



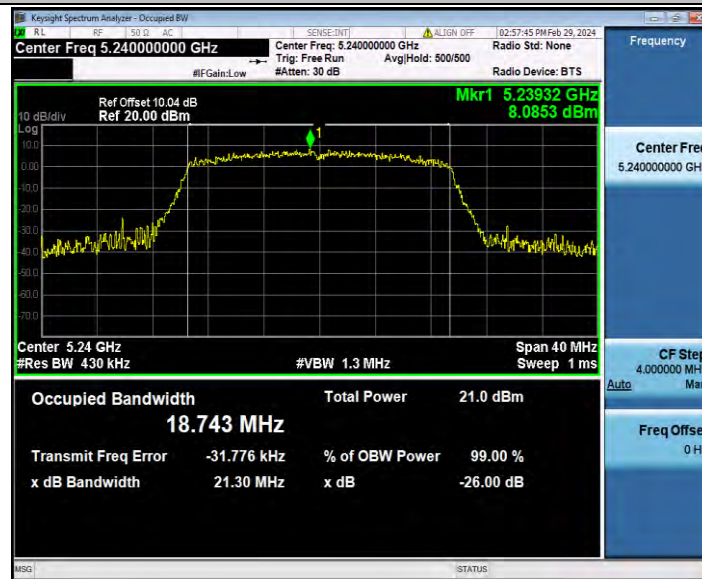
11AX20SISO_Ant1_5180



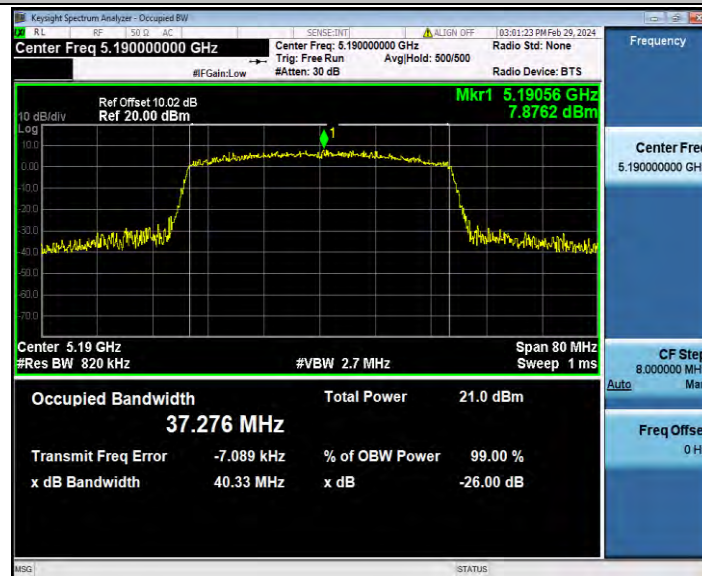
11AX20SISO_Ant1_5200



11AX20SISO_Ant1_5240



11AX40SISO_Ant1_5190



11AX40SISO_Ant1_5230

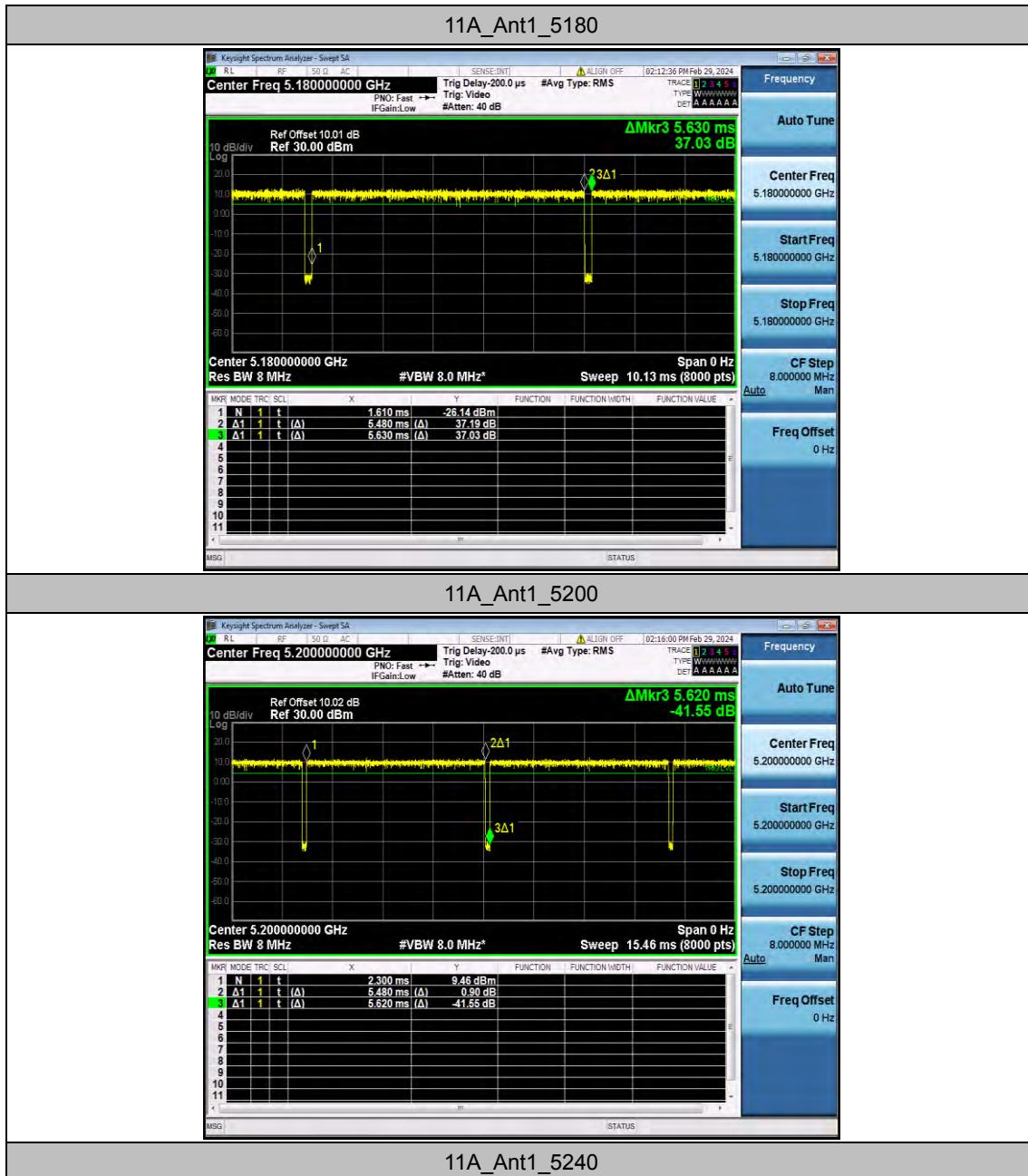


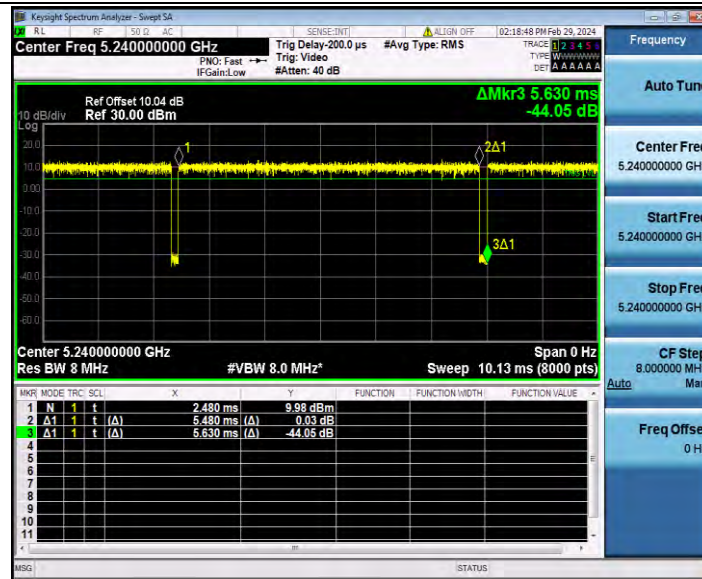
Appendix D.3: Duty Cycle

Test Result

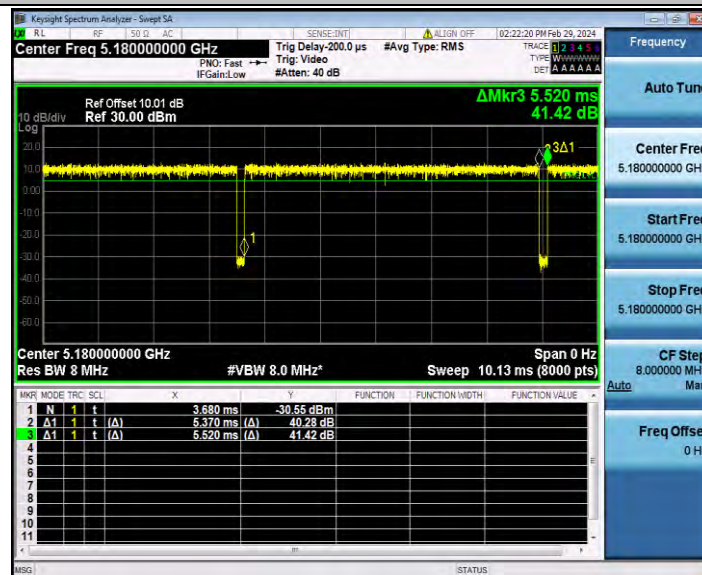
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5180	5.48	5.63	97.34	0.12	0.18
		5200	5.48	5.62	97.51	0.11	0.18
		5240	5.48	5.63	97.34	0.12	0.18
11N20SISO	Ant1	5180	5.37	5.52	97.28	0.12	0.19
		5200	5.37	5.51	97.46	0.11	0.19
		5240	5.38	5.52	97.46	0.11	0.19
11N40SISO	Ant1	5190	5.15	5.30	97.17	0.12	0.19
		5230	5.15	5.30	97.17	0.12	0.19
11AC20SISO	Ant1	5180	5.38	5.52	97.46	0.11	0.19
		5200	5.38	5.52	97.46	0.11	0.19
		5240	5.38	5.52	97.46	0.11	0.19
11AC40SISO	Ant1	5190	5.17	5.31	97.36	0.12	0.19
		5230	5.16	5.29	97.54	0.11	0.19
11AX20SISO	Ant1	5180	4.66	4.80	97.08	0.13	0.21
		5200	4.66	4.80	97.08	0.13	0.21
		5240	4.65	4.80	96.88	0.14	0.22
11AX40SISO	Ant1	5190	4.65	4.78	97.28	0.12	0.22
		5230	4.65	4.79	97.08	0.13	0.22

Test Graphs

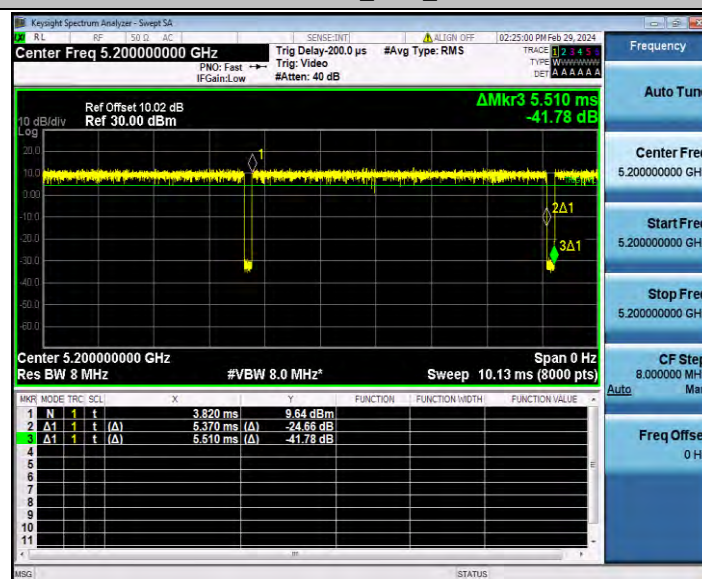




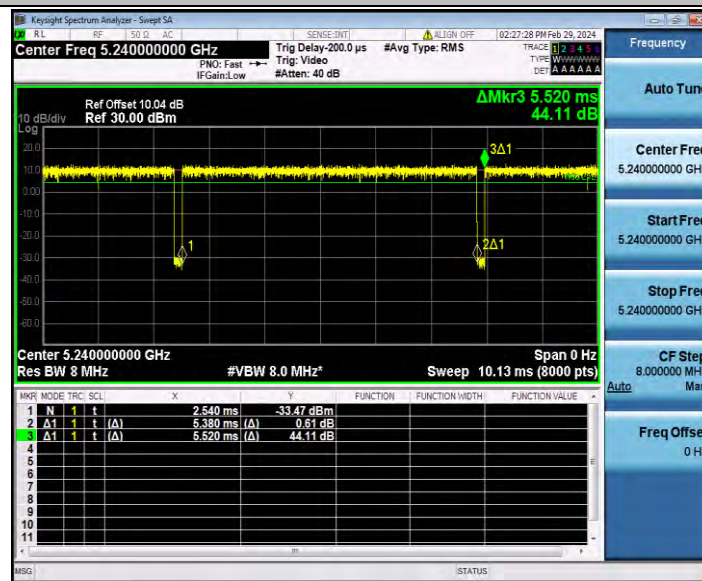
11N20SISO_Ant1_5180



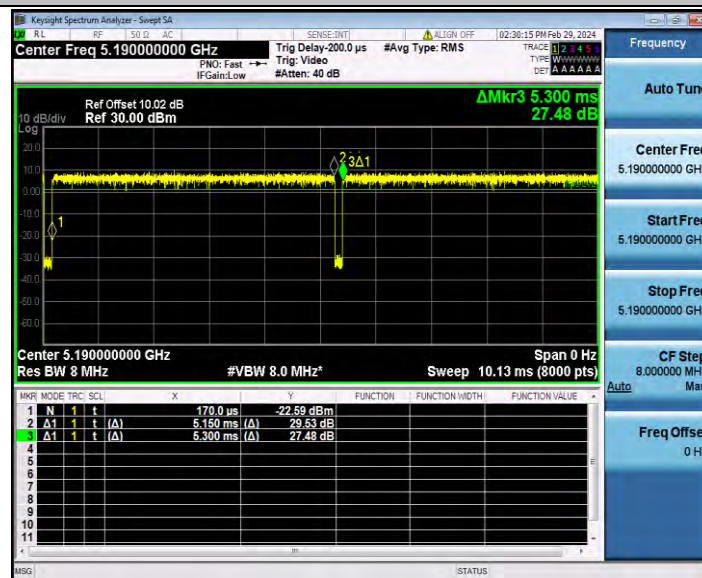
11N20SISO_Ant1_5200



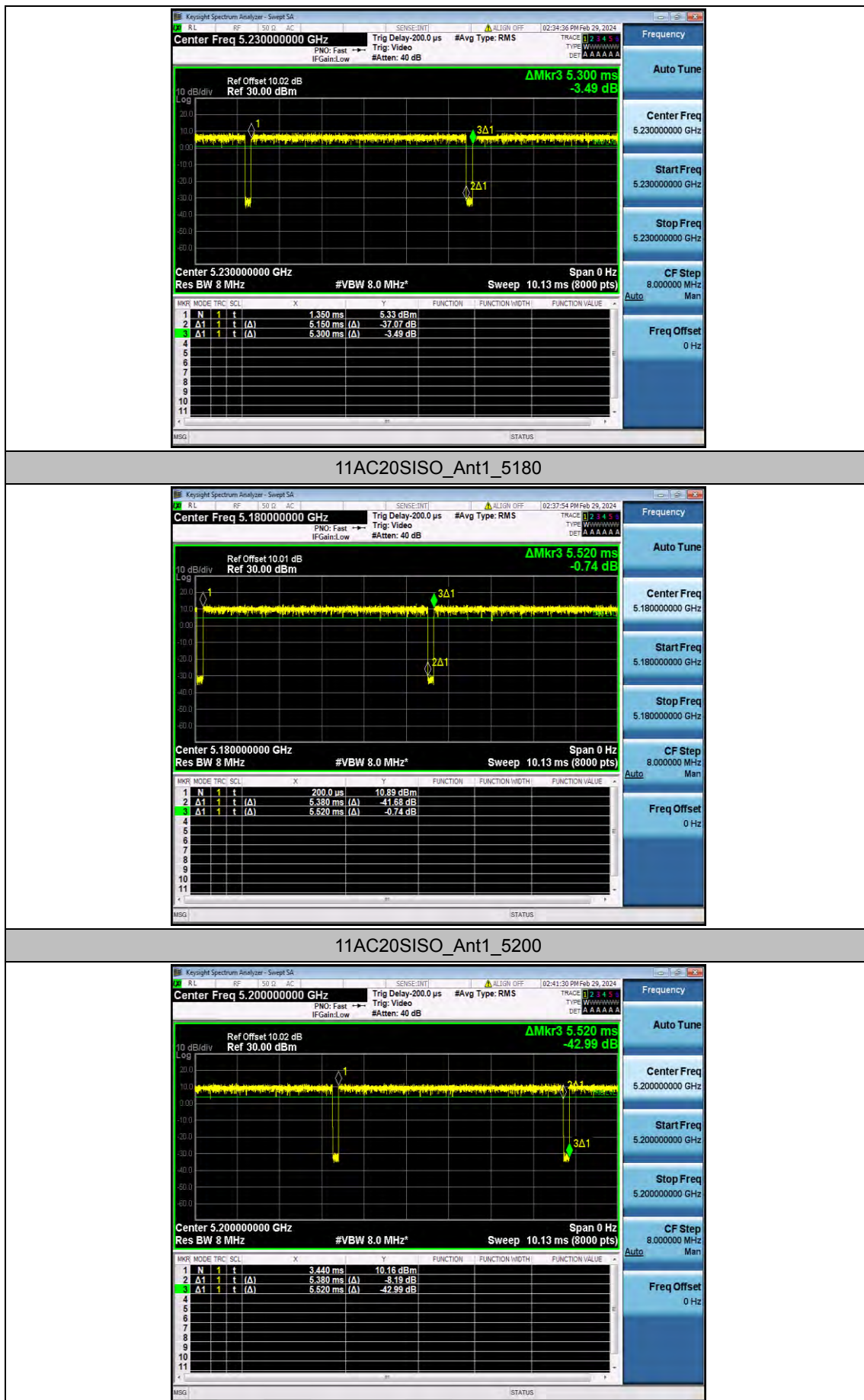
11N20SISO_Ant1_5240



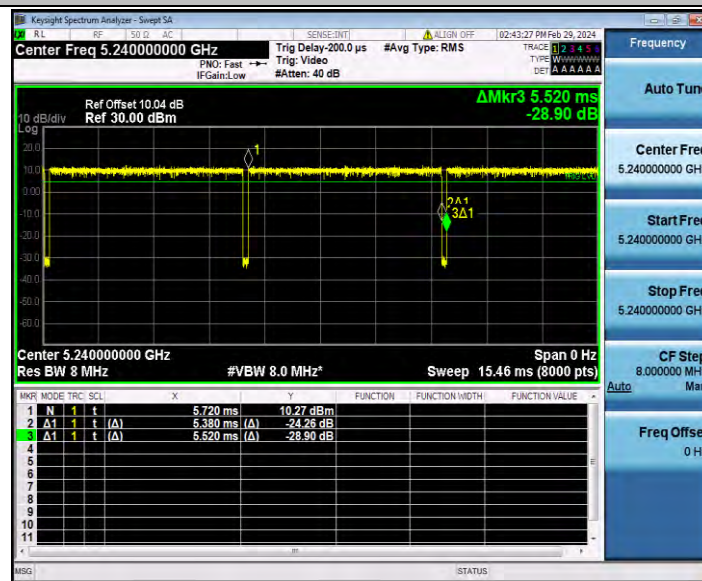
11N40SISO_Ant1_5190



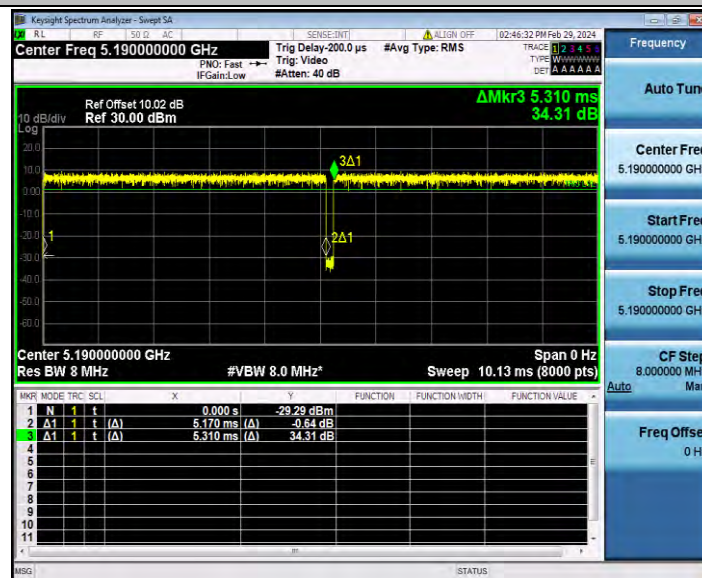
11N40SISO_Ant1_5230



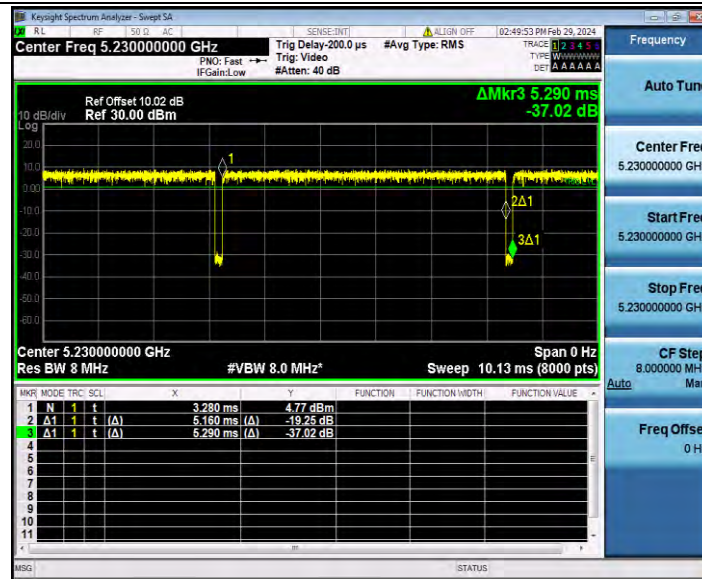
11AC20SISO_Ant1_5240



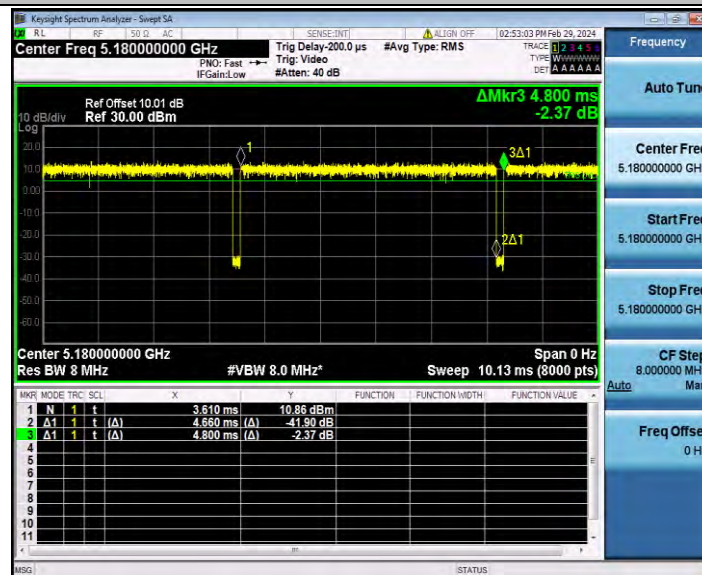
11AC40SISO_Ant1_5190



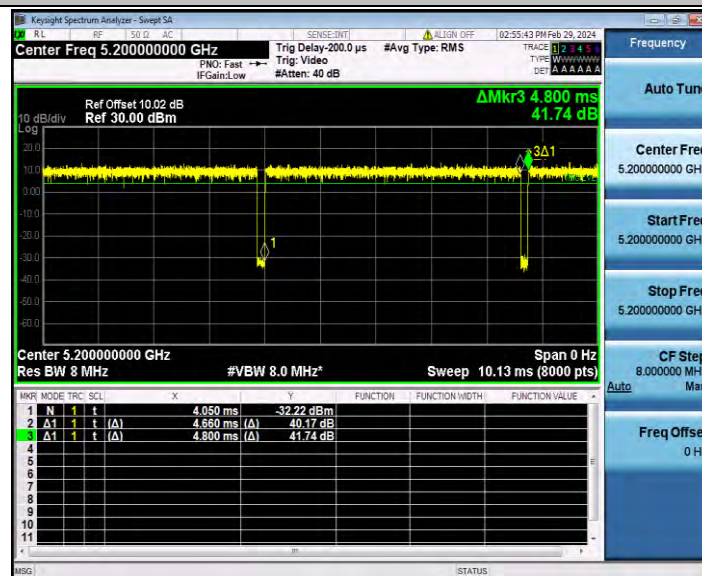
11AC40SISO_Ant1_5230



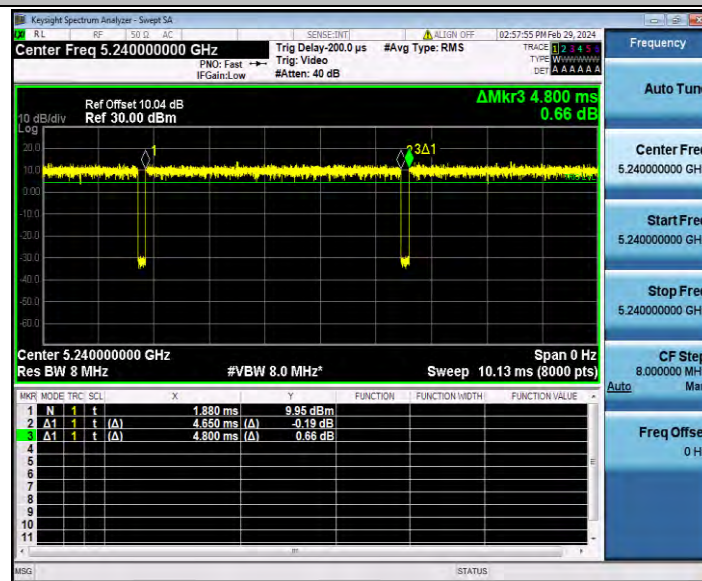
11AX20SISO_Ant1_5180



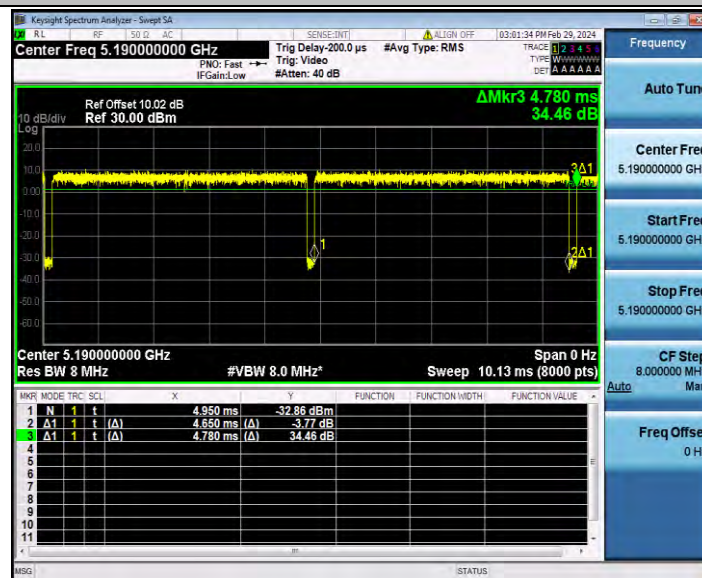
11AX20SISO_Ant1_5200



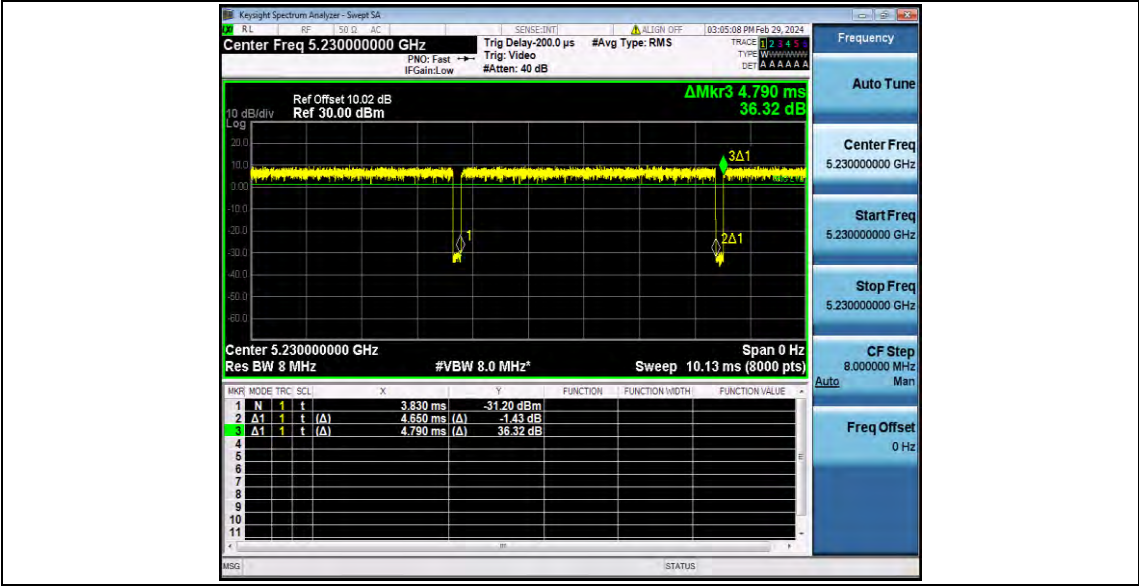
11AX20SISO_Ant1_5240



11AX40SISO_Ant1_5190



11AX40SISO_Ant1_5230



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	12.90	97.34	0.12	13.02	≤23.98	PASS
		5200	12.33	97.51	0.11	12.44	≤23.98	PASS
		5240	12.61	97.34	0.12	12.73	≤23.98	PASS
11N20SI SO	Ant1	5180	12.85	97.28	0.12	12.97	≤23.98	PASS
		5200	12.25	97.46	0.11	12.36	≤23.98	PASS
		5240	12.45	97.46	0.11	12.56	≤23.98	PASS
11N40SI SO	Ant1	5190	12.09	97.17	0.12	12.21	≤23.98	PASS
		5230	11.87	97.17	0.12	11.99	≤23.98	PASS
11AC20S ISO	Ant1	5180	12.86	97.46	0.11	12.97	≤23.98	PASS
		5200	12.21	97.46	0.11	12.32	≤23.98	PASS
		5240	12.52	97.46	0.11	12.63	≤23.98	PASS
11AC40S ISO	Ant1	5190	12.11	97.36	0.12	12.23	≤23.98	PASS
		5230	12.01	97.54	0.11	12.12	≤23.98	PASS
11AX20SI SO	Ant1	5180	12.85	97.08	0.13	12.98	≤23.98	PASS
		5200	12.15	97.08	0.13	12.28	≤23.98	PASS
		5240	12.40	96.88	0.14	12.54	≤23.98	PASS
11AX40SI SO	Ant1	5190	12.07	97.28	0.12	12.19	≤23.98	PASS
		5230	11.98	97.08	0.13	12.11	≤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	2.12	≤11.00	PASS
		5200	1.51	≤11.00	PASS
		5240	1.89	≤11.00	PASS
11N20SISO	Ant1	5180	1.91	≤11.00	PASS
		5200	1.23	≤11.00	PASS
		5240	1.66	≤11.00	PASS
11N40SISO	Ant1	5190	-1.40	≤11.00	PASS
		5230	-1.49	≤11.00	PASS
11AC20SISO	Ant1	5180	1.89	≤11.00	PASS
		5200	1.29	≤11.00	PASS
		5240	1.65	≤11.00	PASS
11AC40SISO	Ant1	5190	-1.34	≤11.00	PASS
		5230	-1.46	≤11.00	PASS
11AX20SISO	Ant1	5180	1.86	≤11.00	PASS
		5200	1.25	≤11.00	PASS
		5240	1.60	≤11.00	PASS
11AX40SISO	Ant1	5190	-1.63	≤11.00	PASS
		5230	-1.70	≤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

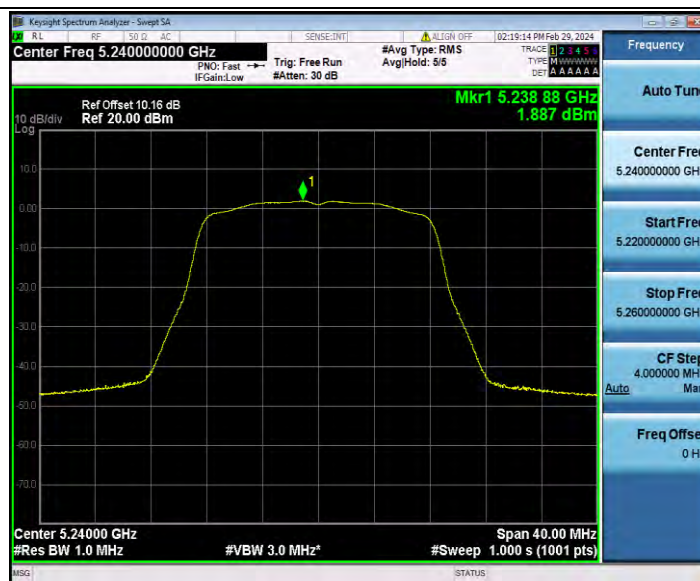
11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240



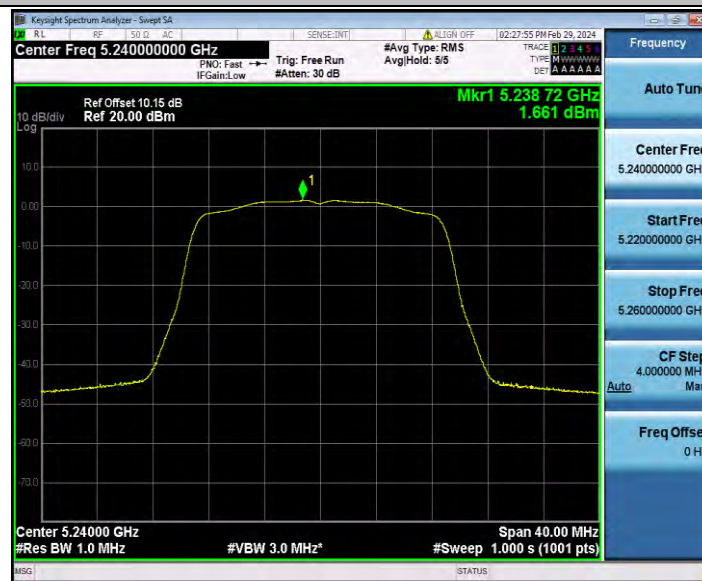
11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



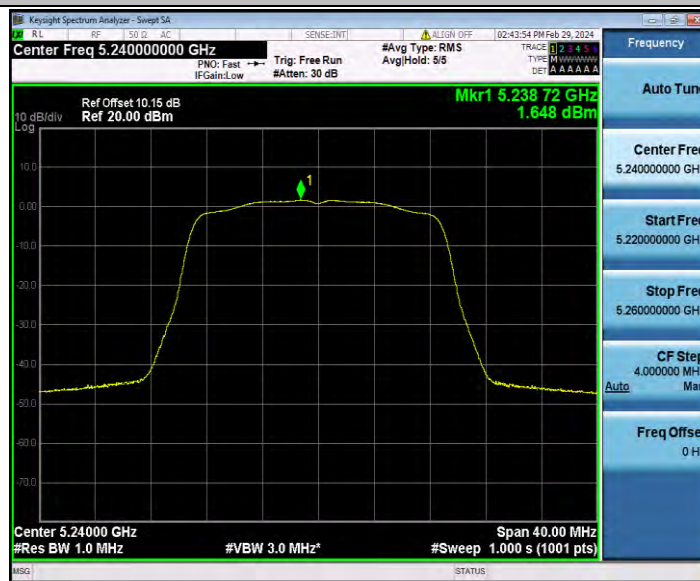
11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



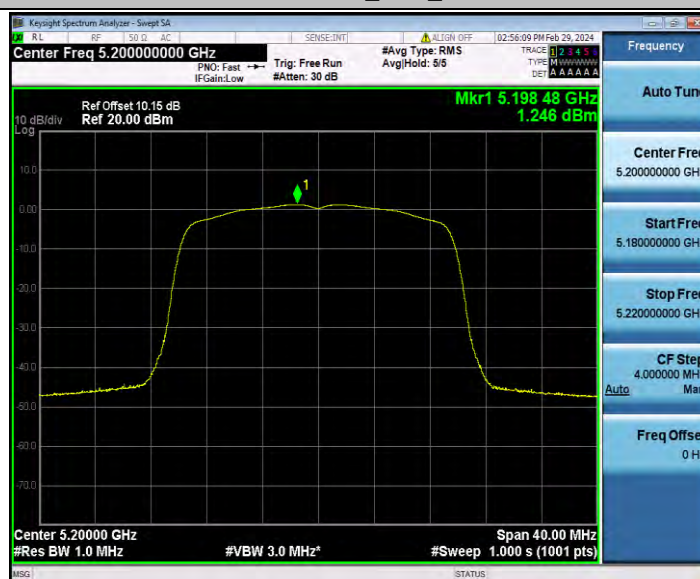
11AC40SISO_Ant1_5230



11AX20SISO_Ant1_5180



11AX20SISO_Ant1_5200



11AX20SISO_Ant1_5240



11AX40SISO_Ant1_5190



11AX40SISO_Ant1_5230

