

Case No. : CTA24052402904	
Ambient Condition: 24 °C, 49 %RH	
According Standard: ■Part15E	
Test Date: 2024.2.21	Test Engineer: Evan ouyang

Appendix D.1: Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	24.320	5169.240	5193.560	---	---
		5200	24.560	5189.240	5213.800	---	---
		5240	26.480	5228.080	5254.560	---	---
11N20SISO	Ant1	5180	21.360	5170.240	5191.600	---	---
		5200	24.800	5188.600	5213.400	---	---
		5240	29.360	5226.480	5255.840	---	---
11N40SISO	Ant1	5190	48.800	5169.440	5218.240	---	---
		5230	56.720	5209.200	5265.920	---	---
11AC20SISO	Ant1	5180	23.120	5169.320	5192.440	---	---
		5200	23.600	5189.160	5212.760	---	---
		5240	31.400	5225.520	5256.920	---	---
11AC40SISO	Ant1	5190	49.520	5169.520	5219.040	---	---
		5230	54.000	5209.040	5263.040	---	---
11AC80SISO	Ant1	5210	96.000	5169.680	5265.680	---	---

Test Graphs

11A_Ant1_5180



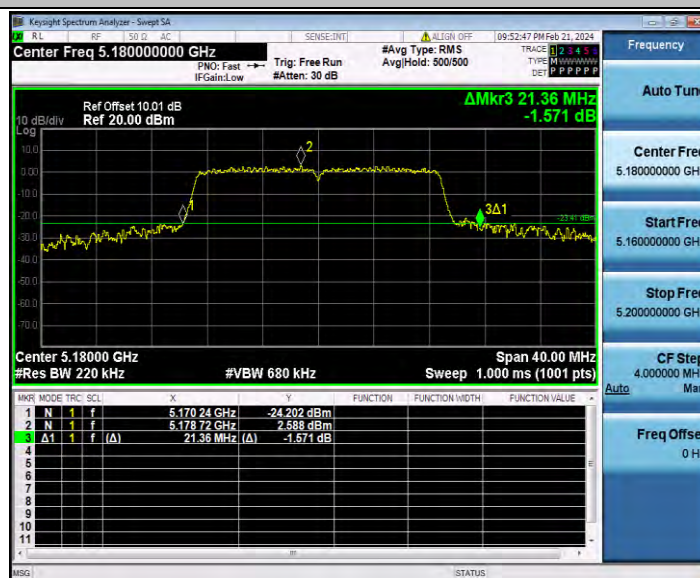
11A_Ant1_5200



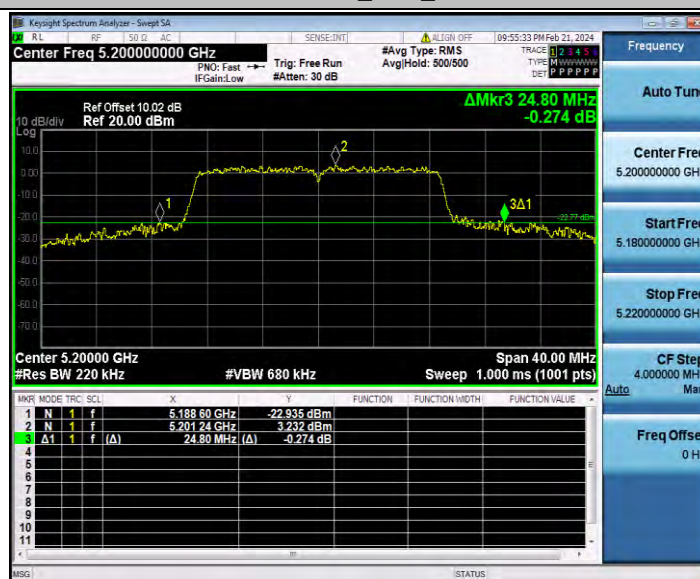
11A_Ant1_5240



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



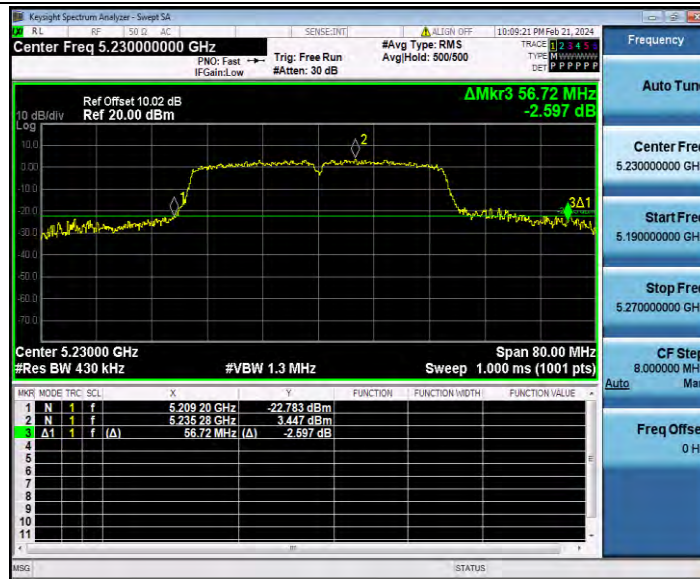
11N20SISO_Ant1_5240



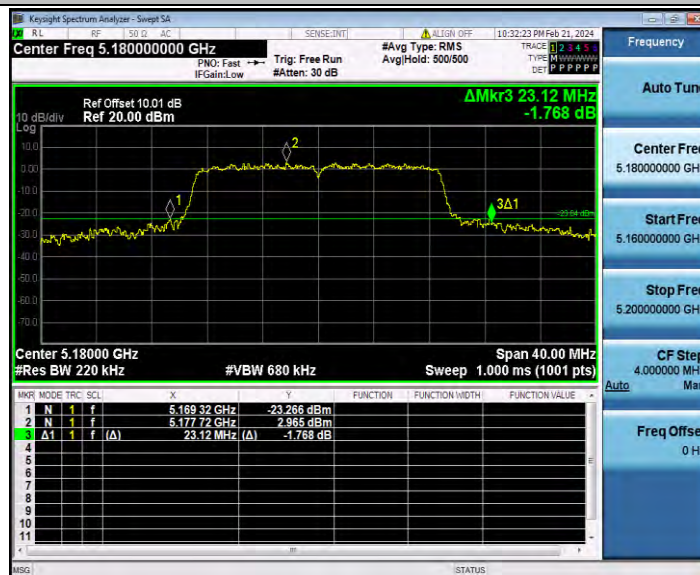
11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



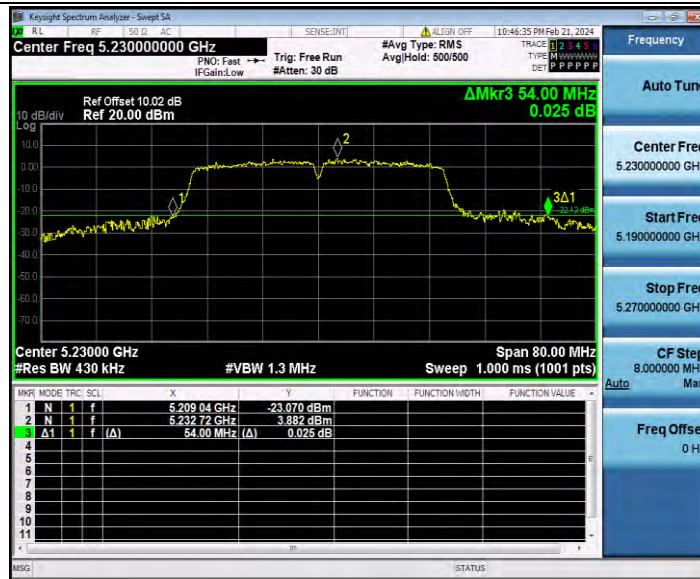
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210

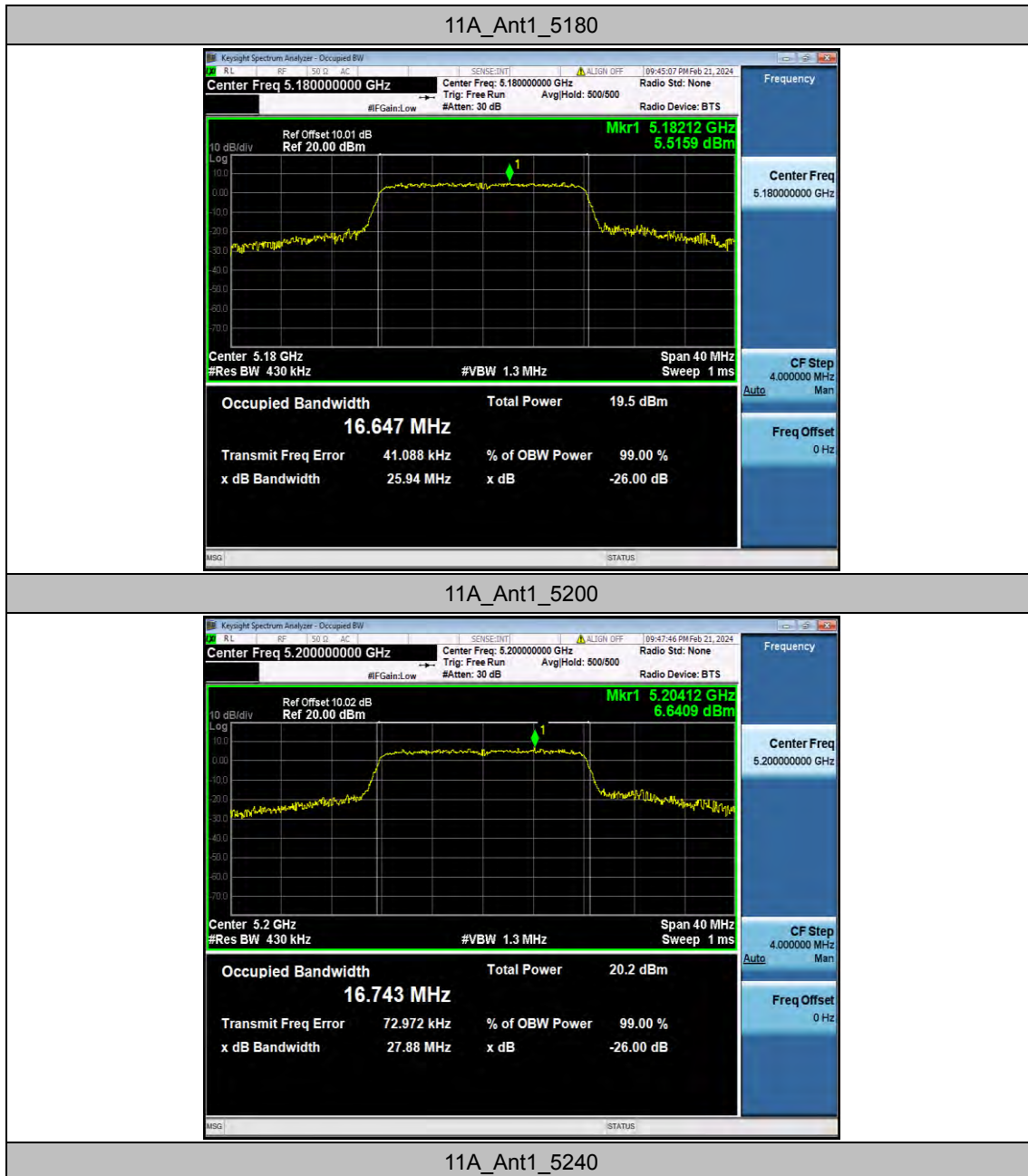


Appendix D.2: Occupied channel bandwidth

Test Result

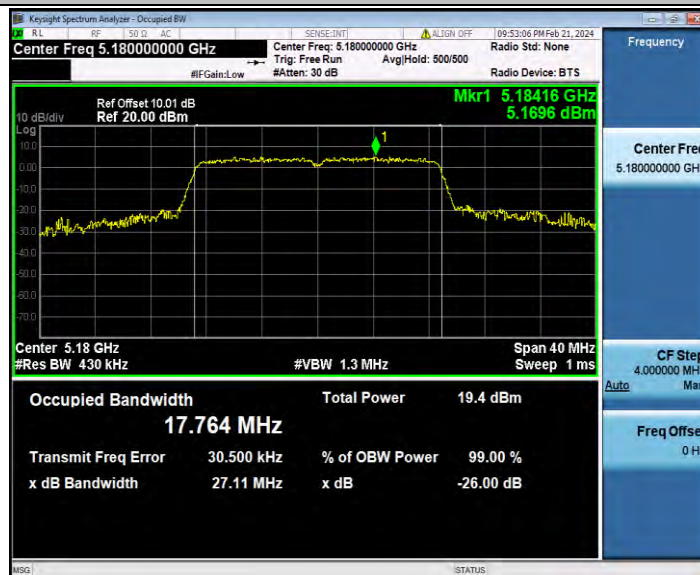
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.647	5171.7176	5188.3646	---	---
		5200	16.743	5191.7015	5208.4445	---	---
		5240	16.976	5231.6025	5248.5785	---	---
11N20SISO	Ant1	5180	17.764	5171.1485	5188.9125	---	---
		5200	17.786	5191.1354	5208.9214	---	---
		5240	17.932	5231.0781	5249.0101	---	---
11N40SISO	Ant1	5190	36.817	5171.7298	5208.5468	---	---
		5230	36.937	5211.6532	5248.5902	---	---
11AC20SISO	Ant1	5180	17.745	5171.1505	5188.8955	---	---
		5200	17.782	5191.1357	5208.9177	---	---
		5240	17.913	5231.0843	5248.9973	---	---
11AC40SISO	Ant1	5190	36.594	5171.8652	5208.4592	---	---
		5230	36.802	5211.7610	5248.5630	---	---
11AC80SISO	Ant1	5210	75.036	5172.8207	5247.8567	---	---

Test Graphs

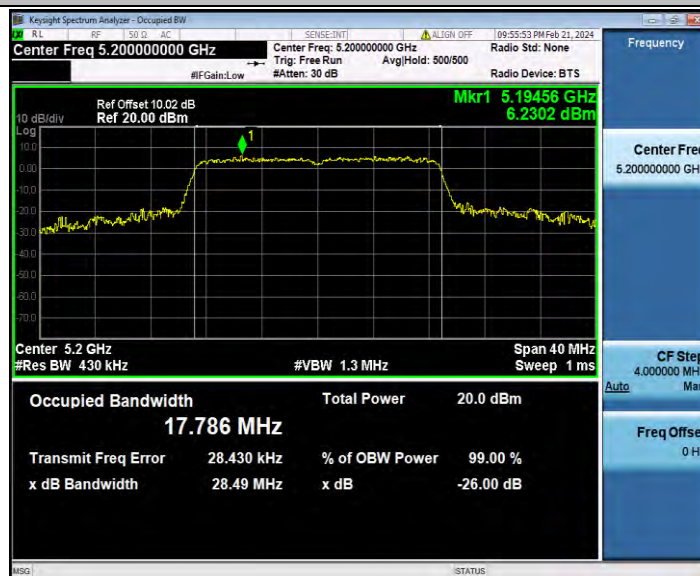




11N20SISO_Ant1_5180



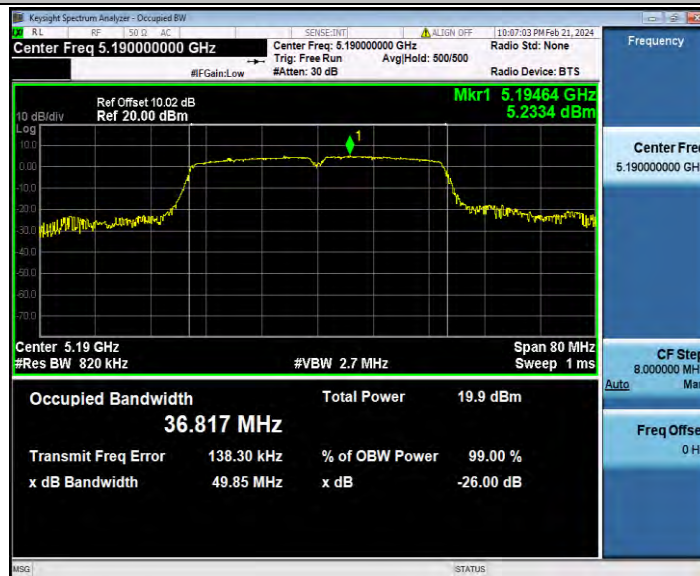
11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



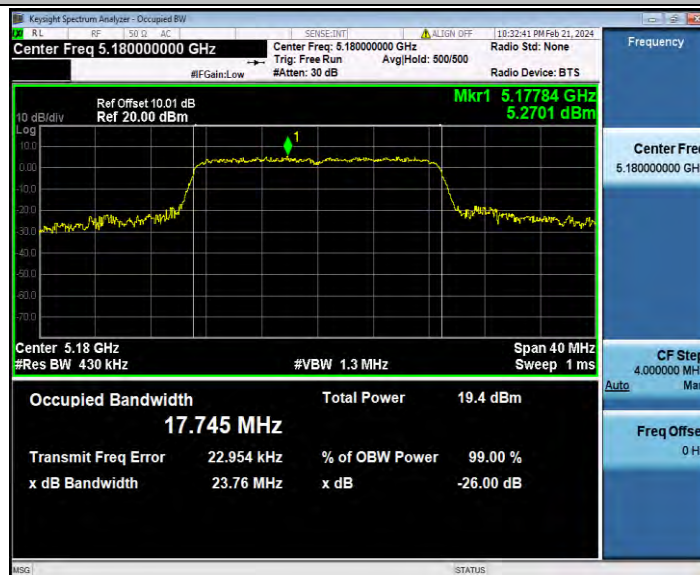
11N40SISO_Ant1_5190



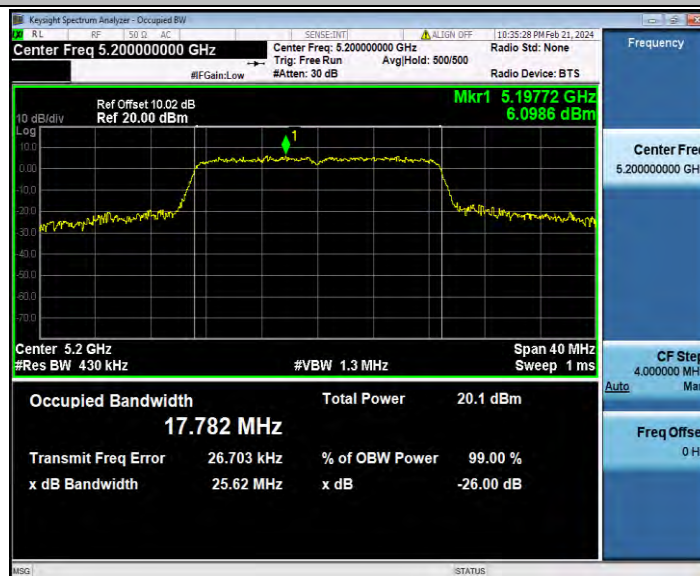
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



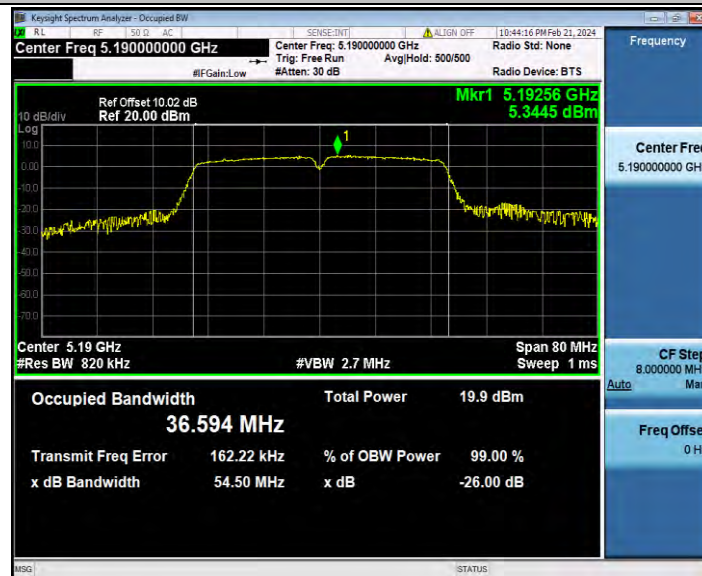
11AC20SISO_Ant1_5200



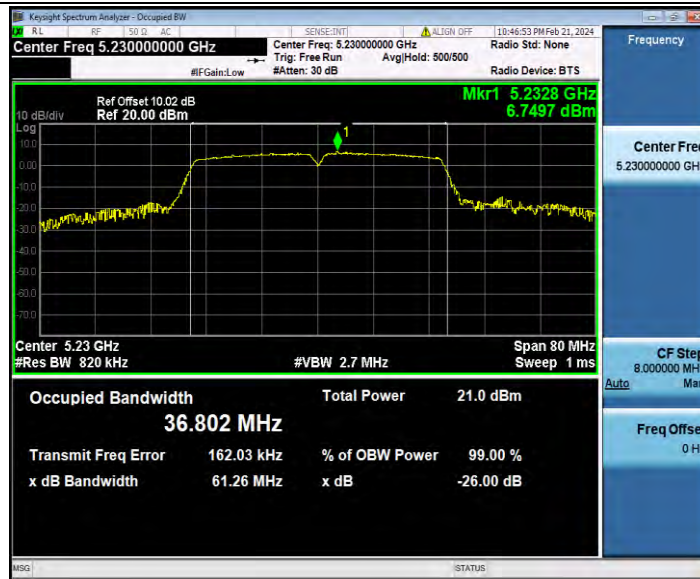
11AC20SISO_Ant1_5240



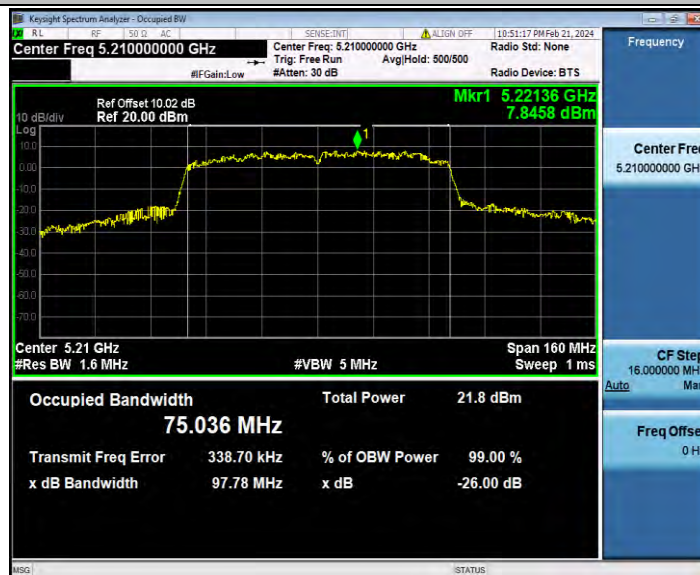
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210

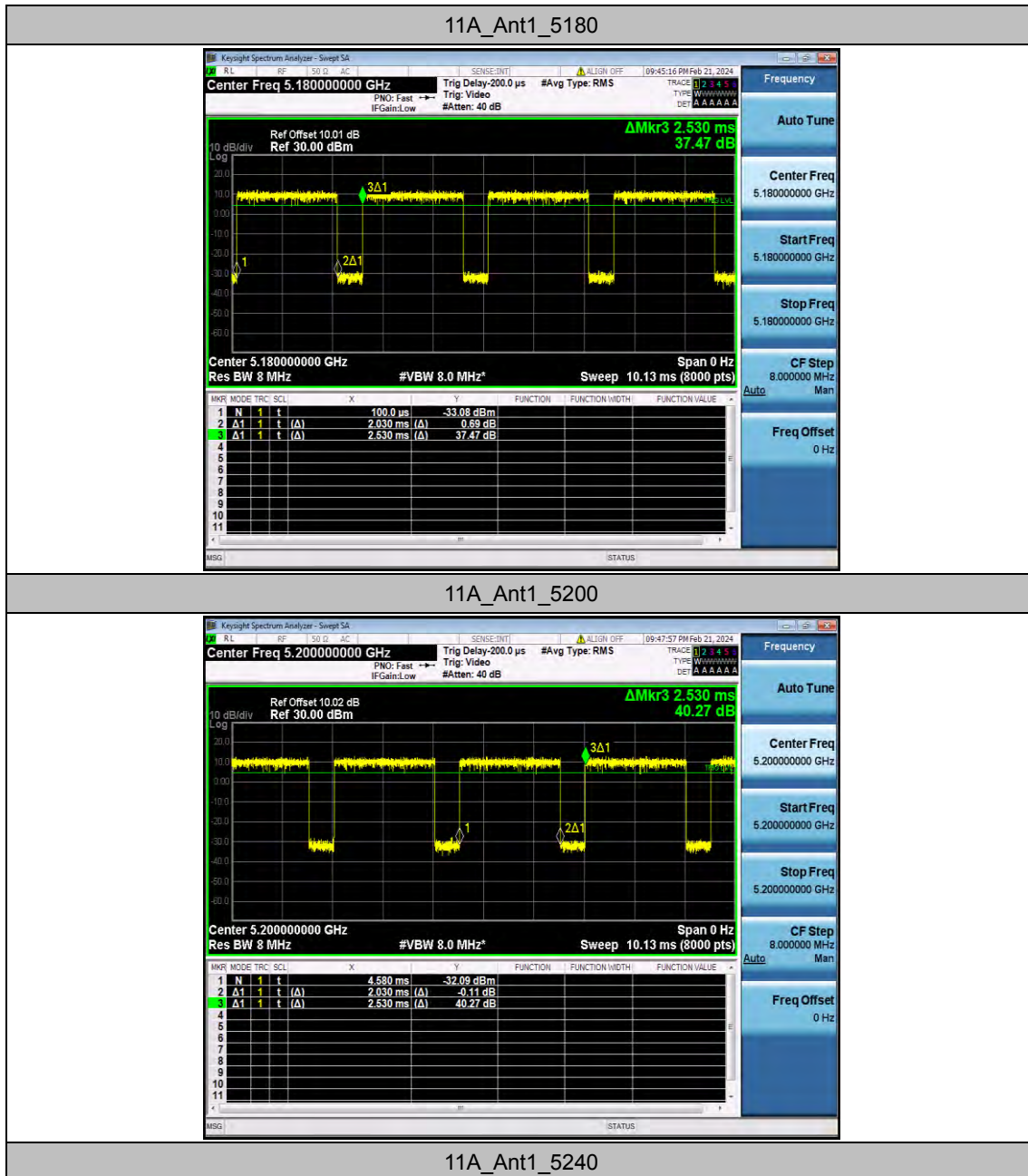


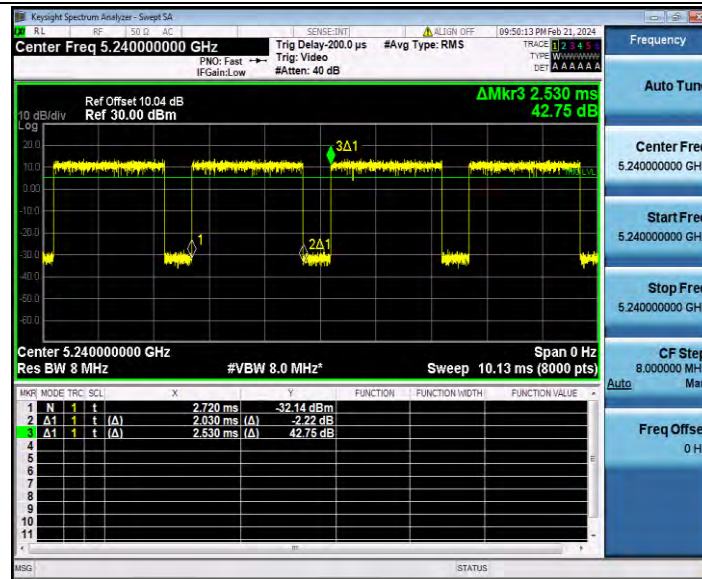
Appendix D.3: Duty Cycle

Test Result

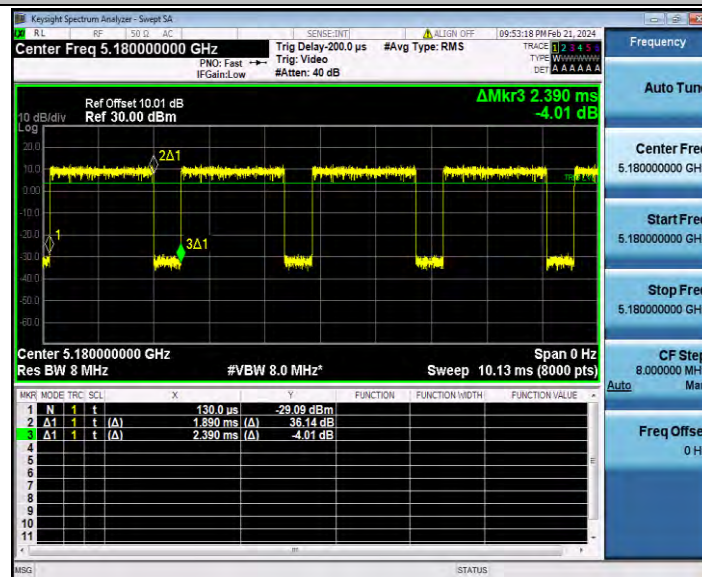
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5180	2.03	2.53	80.24	0.96	0.49
		5200	2.03	2.53	80.24	0.96	0.49
		5240	2.03	2.53	80.24	0.96	0.49
11N20SISO	Ant1	5180	1.89	2.39	79.08	1.02	0.53
		5200	1.88	2.39	78.66	1.04	0.53
		5240	1.89	2.39	79.08	1.02	0.53
11N40SISO	Ant1	5190	0.93	1.43	65.03	1.87	1.08
		5230	0.92	1.43	64.34	1.92	1.09
11AC20SISO	Ant1	5180	1.90	2.40	79.17	1.01	0.53
		5200	1.89	2.39	79.08	1.02	0.53
		5240	1.90	2.40	79.17	1.01	0.53
11AC40SISO	Ant1	5190	0.93	1.43	65.03	1.87	1.08
		5230	0.93	1.43	65.03	1.87	1.08
11AC80SISO	Ant1	5210	0.45	0.96	46.88	3.29	2.22

Test Graphs

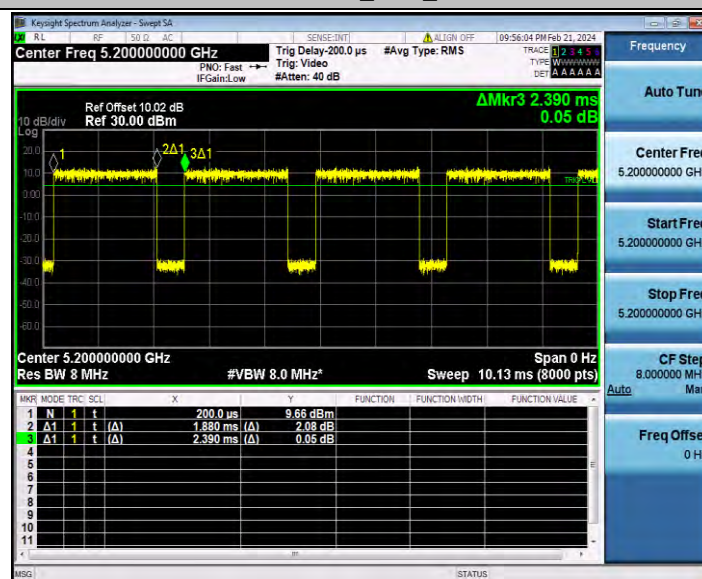




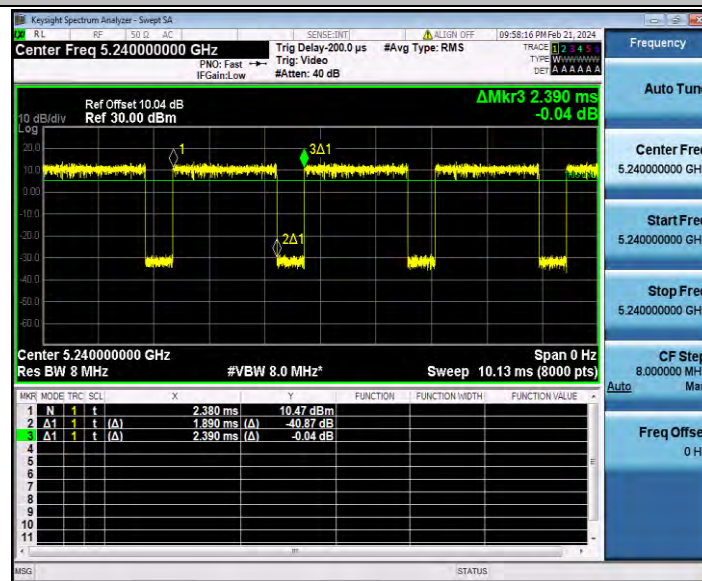
11N20SISO_Ant1_5180



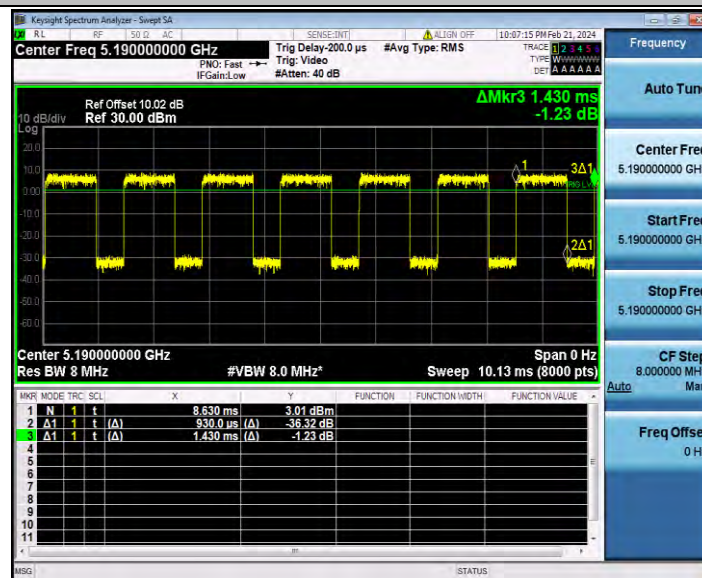
11N20SISO_Ant1_5200



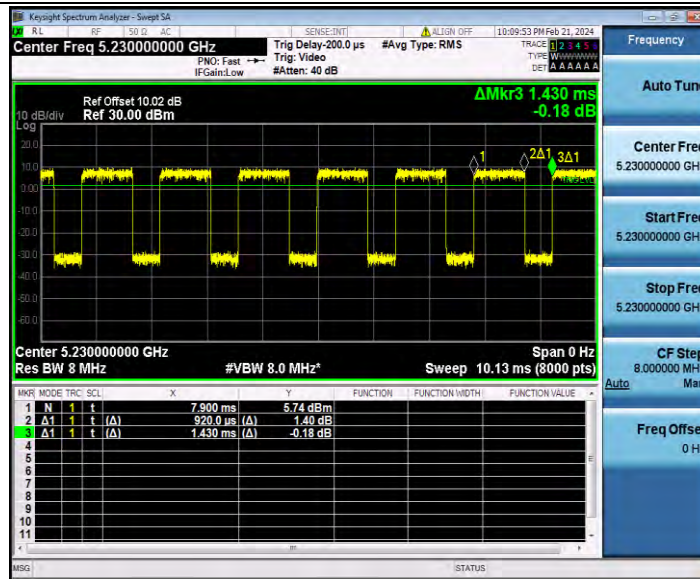
11N20SISO_Ant1_5240



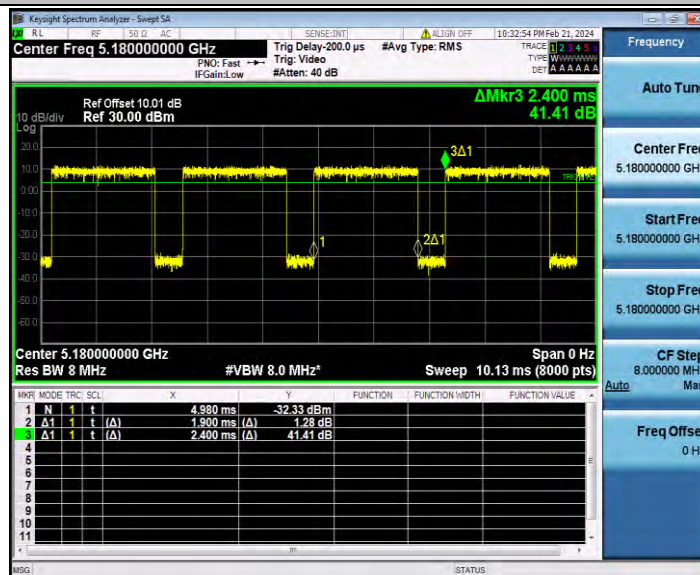
11N40SISO_Ant1_5190



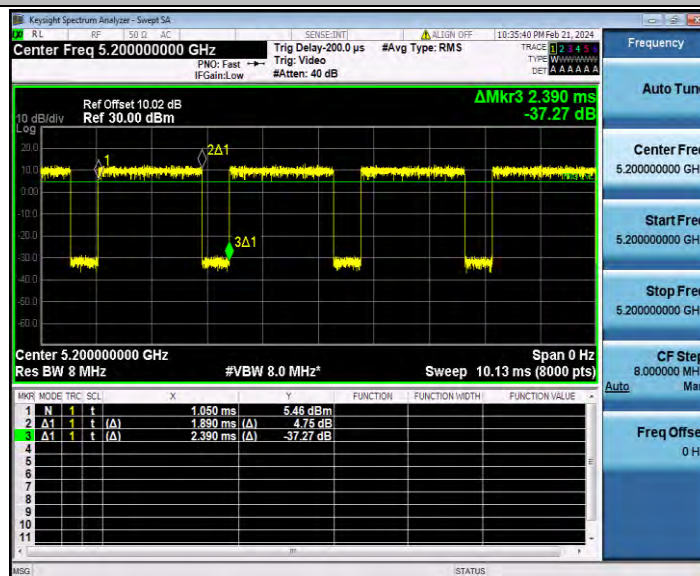
11N40SISO_Ant1_5230

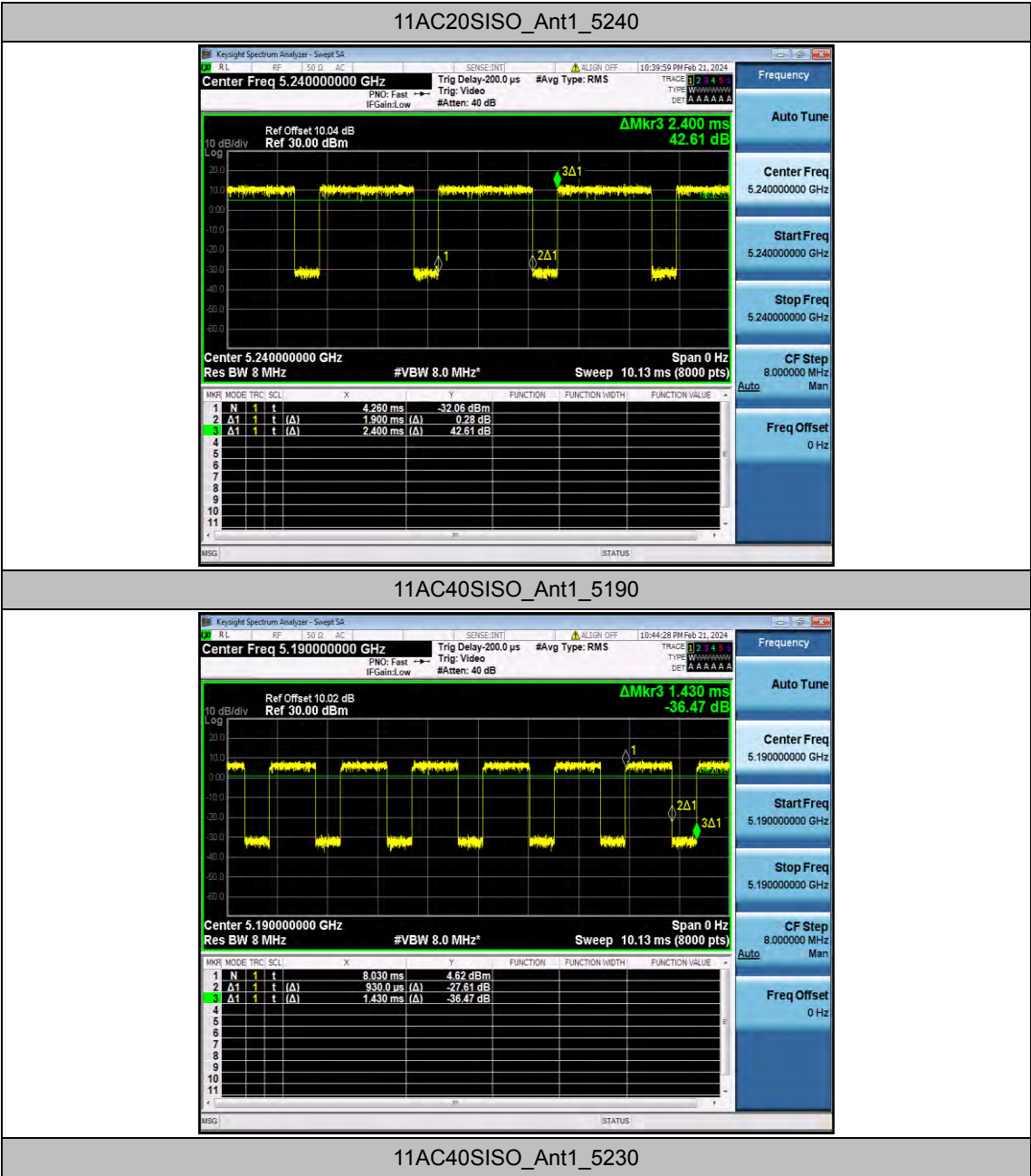


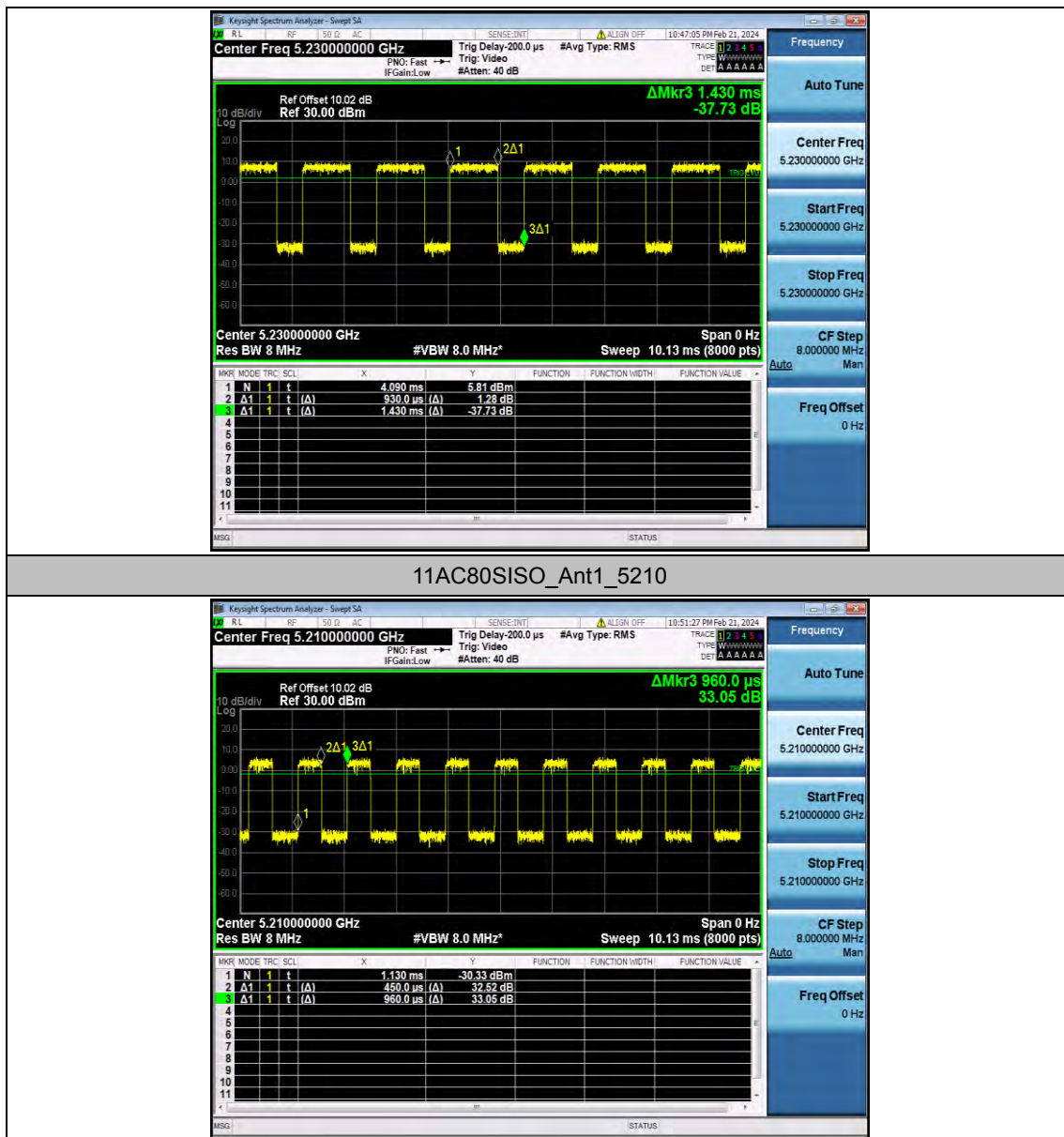
11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200







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	11.83	80.24	0.96	12.79	≤23.98	PASS
		5200	12.40	80.24	0.96	13.36	≤23.98	PASS
		5240	13.14	80.24	0.96	14.10	≤23.98	PASS
11N20SISO	Ant1	5180	11.72	79.08	1.02	12.74	≤23.98	PASS
		5200	12.20	78.66	1.04	13.24	≤23.98	PASS
		5240	13.04	79.08	1.02	14.06	≤23.98	PASS
11N40SISO	Ant1	5190	10.83	65.03	1.87	12.70	≤23.98	PASS
		5230	11.76	64.34	1.92	13.68	≤23.98	PASS
11AC20SISO	Ant1	5180	11.92	79.17	1.01	12.93	≤23.98	PASS
		5200	12.44	79.08	1.02	13.46	≤23.98	PASS
		5240	12.98	79.17	1.01	13.99	≤23.98	PASS
11AC40SISO	Ant1	5190	11.00	65.03	1.87	12.87	≤23.98	PASS
		5230	11.05	65.03	1.87	12.92	≤23.98	PASS
11AC80SISO	Ant1	5210	10.10	46.88	3.29	13.39	≤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	2.00	≤11.00	PASS
		5200	2.62	≤11.00	PASS
		5240	3.36	≤11.00	PASS
11N20SISO	Ant1	5180	1.67	≤11.00	PASS
		5200	2.33	≤11.00	PASS
		5240	3.12	≤11.00	PASS
11N40SISO	Ant1	5190	-0.20	≤11.00	PASS
		5230	0.82	≤11.00	PASS
11AC20SISO	Ant1	5180	1.70	≤11.00	PASS
		5200	2.37	≤11.00	PASS
		5240	3.04	≤11.00	PASS
11AC40SISO	Ant1	5190	-0.07	≤11.00	PASS
		5230	0.07	≤11.00	PASS
11AC80SISO	Ant1	5210	-3.56	≤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



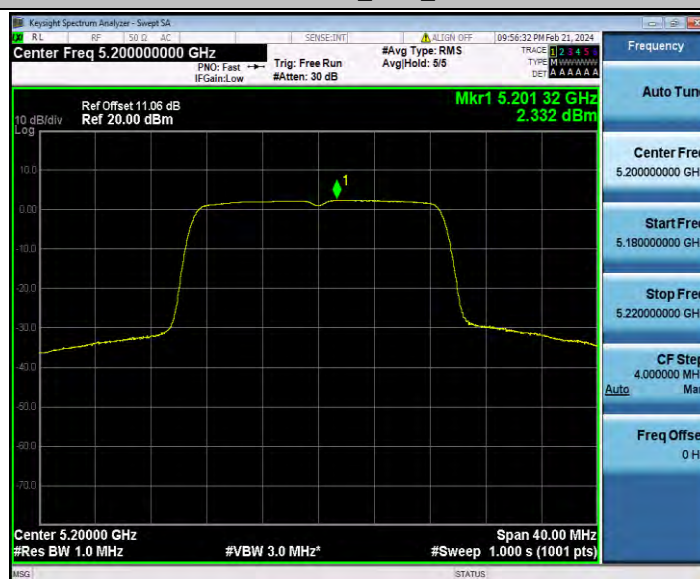
11A_Ant1_5240



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



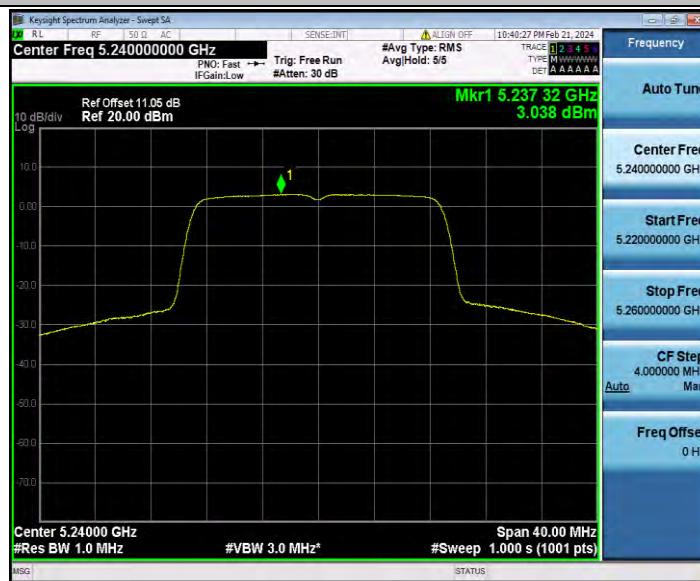
11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210

