

Case No. : CTA24103100104	
Ambient Condition: 23 °C, 54 %RH	
According Standard: ■Part15E	
Test Date: 2024.9.6	Test Engineer: Lushan Kong

Appendix D.1: Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	24.680	5167.320	5192.000	---	---
		5200	25.120	5186.880	5212.000	---	---
		5240	24.320	5227.400	5251.720	---	---
11N20SISO	Ant1	5180	25.760	5167.080	5192.840	---	---
		5200	25.560	5187.040	5212.600	---	---
		5240	25.280	5226.960	5252.240	---	---
11N40SISO	Ant1	5190	45.280	5167.520	5212.800	---	---
		5230	44.400	5207.760	5252.160	---	---
11AC20SISO	Ant1	5180	25.320	5167.240	5192.560	---	---
		5200	25.120	5187.400	5212.520	---	---
		5240	25.360	5227.040	5252.400	---	---
11AC40SISO	Ant1	5190	44.560	5167.920	5212.480	---	---
		5230	45.520	5207.520	5253.040	---	---
11AC80SISO	Ant1	5210	86.240	5167.120	5253.360	---	---
11AX20SISO	Ant1	5180	24.640	5167.400	5192.040	---	---
		5200	24.440	5187.560	5212.000	---	---
		5240	24.640	5227.600	5252.240	---	---
11AX40SISO	Ant1	5190	44.400	5168.080	5212.480	---	---
		5230	44.880	5207.600	5252.480	---	---
11AX80SISO	Ant1	5210	86.080	5166.800	5252.880	---	---

Test Graphs

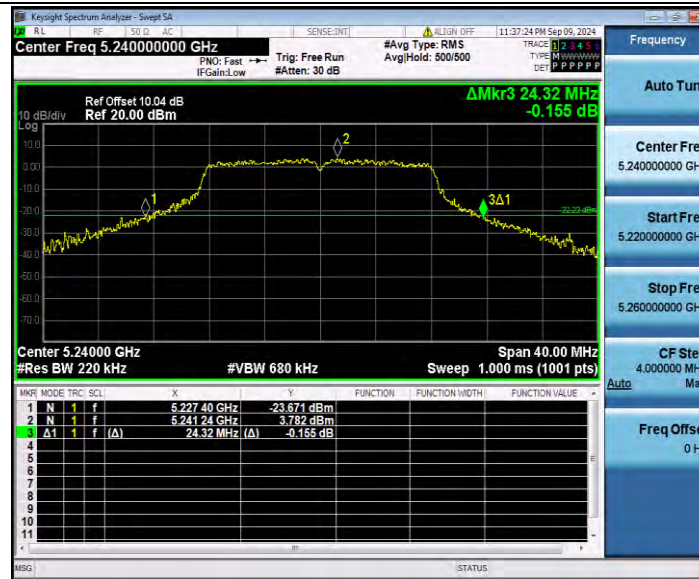
11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240



11N20SISO_Ant1_5180



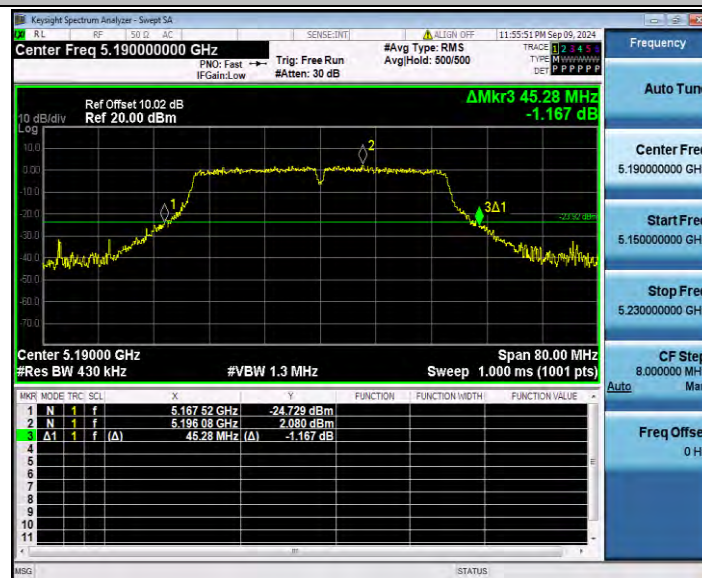
11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



11AX20SISO_Ant1_5180



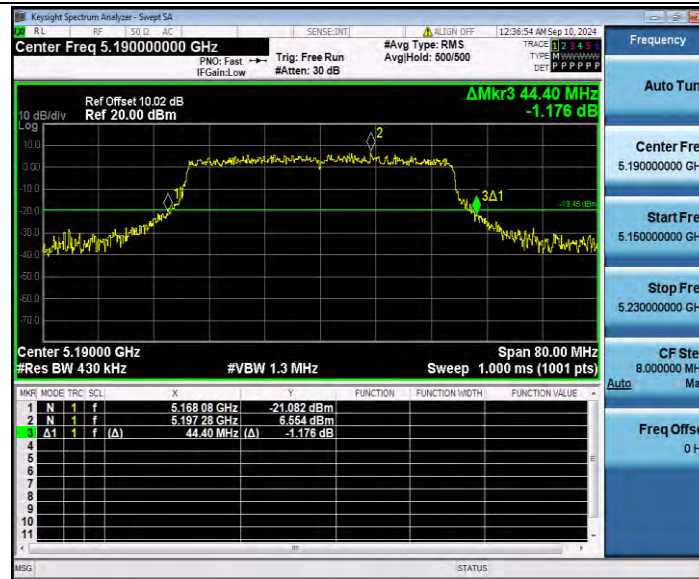
11AX20SISO_Ant1_5200



11AX20SISO_Ant1_5240



11AX40SISO_Ant1_5190



11AX40SISO_Ant1_5230



11AX80SISO_Ant1_5210

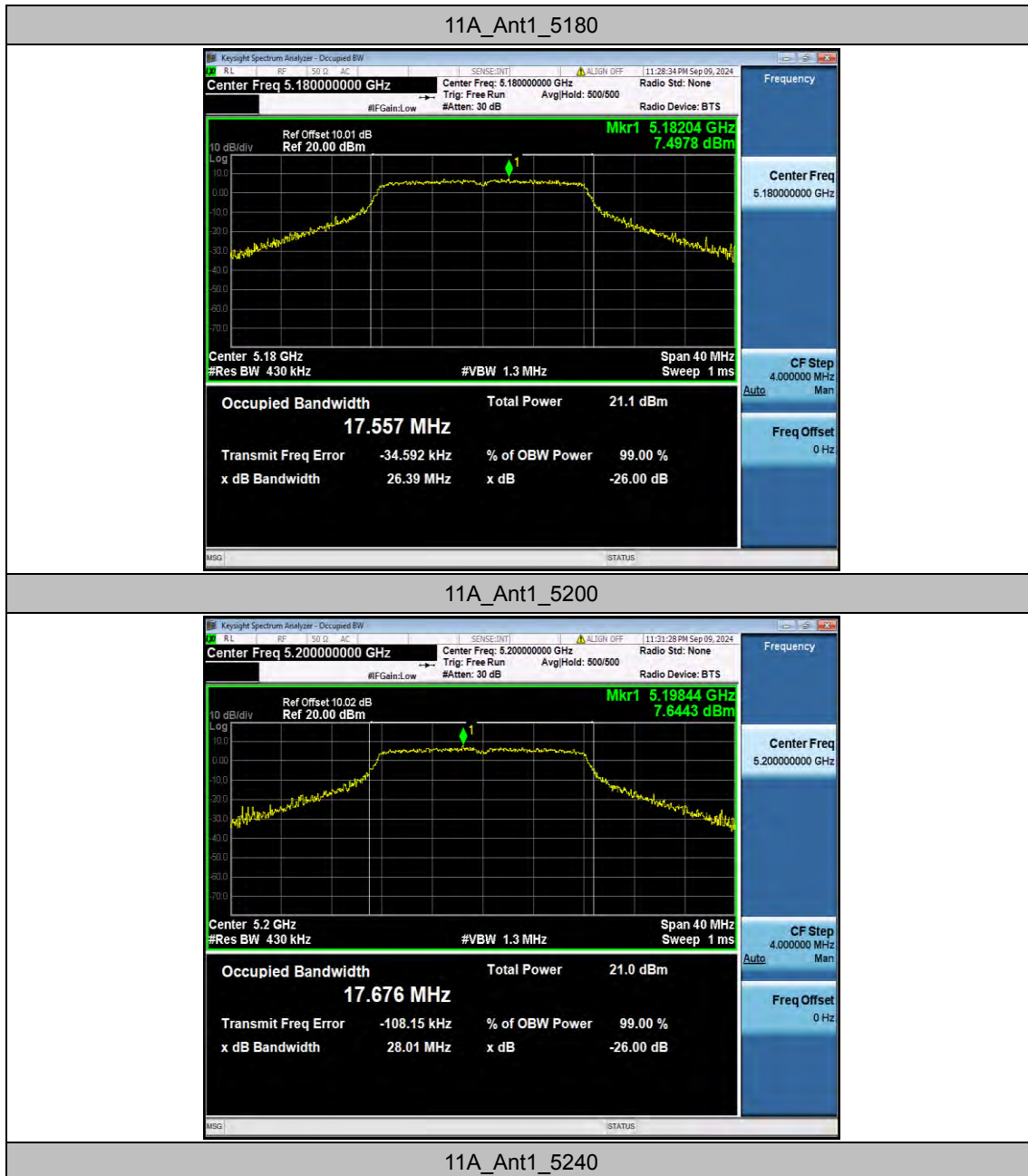


Appendix D.2: Occupied channel bandwidth

Test Result

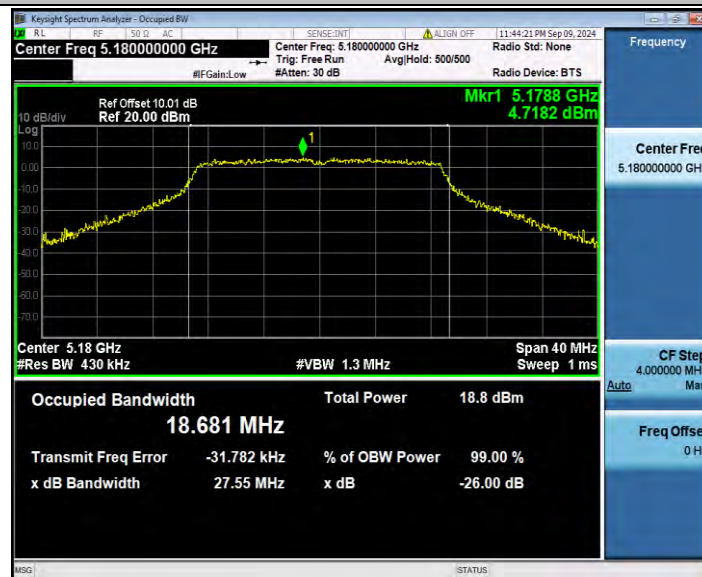
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.557	5171.1869	5188.7439	---	---
		5200	17.676	5191.0539	5208.7299	---	---
		5240	17.597	5231.0541	5248.6511	---	---
11N20SISO	Ant1	5180	18.681	5170.6277	5189.3087	---	---
		5200	18.654	5190.6189	5209.2729	---	---
		5240	18.655	5230.5731	5249.2281	---	---
11N40SISO	Ant1	5190	36.938	5171.5191	5208.4571	---	---
		5230	37.018	5211.3812	5248.3992	---	---
11AC20SISO	Ant1	5180	18.711	5170.6502	5189.3612	---	---
		5200	18.720	5190.6138	5209.3338	---	---
		5240	18.609	5230.6481	5249.2571	---	---
11AC40SISO	Ant1	5190	37.059	5171.4464	5208.5054	---	---
		5230	37.007	5211.4043	5248.4113	---	---
11AC80SISO	Ant1	5210	76.040	5171.9454	5247.9854	---	---
11AX20SISO	Ant1	5180	19.481	5170.2694	5189.7504	---	---
		5200	19.351	5190.3131	5209.6641	---	---
		5240	19.397	5230.2598	5249.6568	---	---
11AX40SISO	Ant1	5190	38.194	5170.9473	5209.1413	---	---
		5230	38.219	5210.8663	5249.0853	---	---
11AX80SISO	Ant1	5210	77.607	5171.2724	5248.8794	---	---

Test Graphs





11N20SISO_Ant1_5180



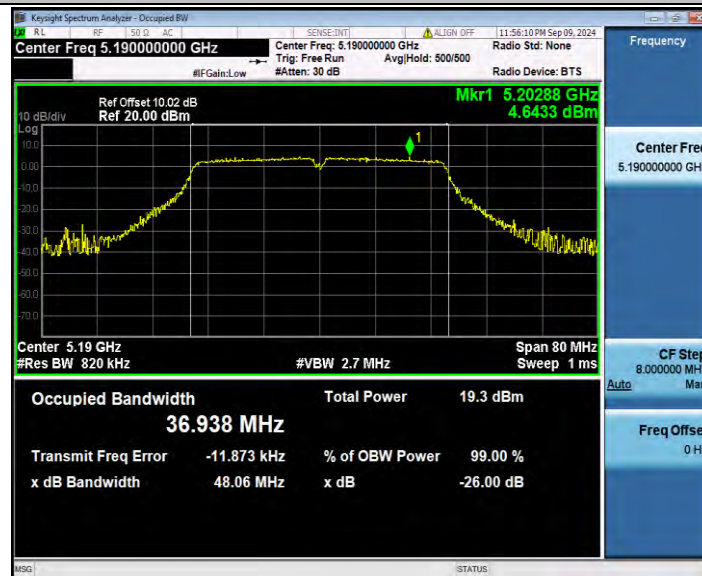
11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



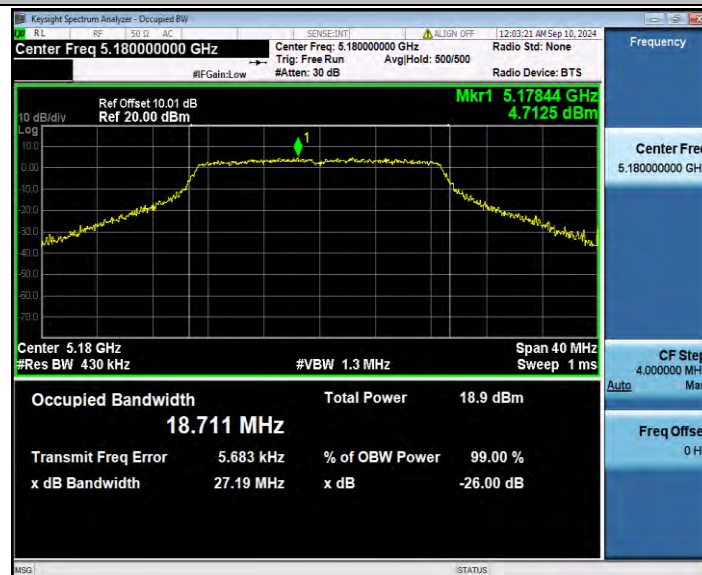
11N40SISO_Ant1_5190



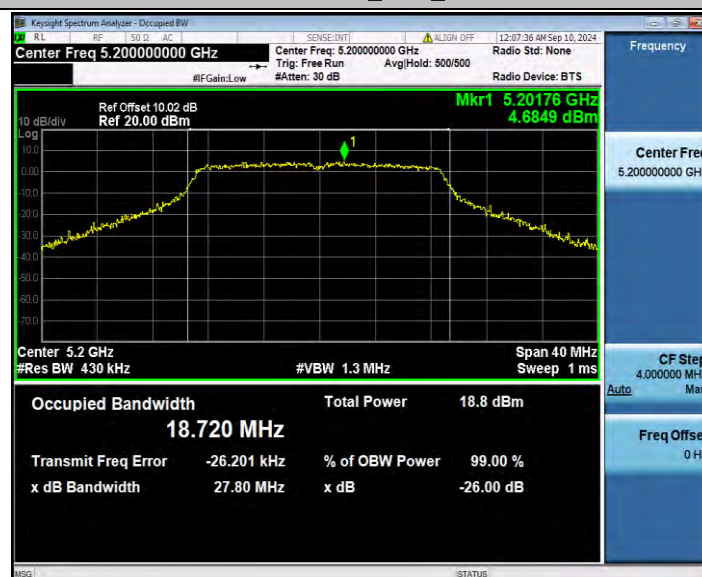
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



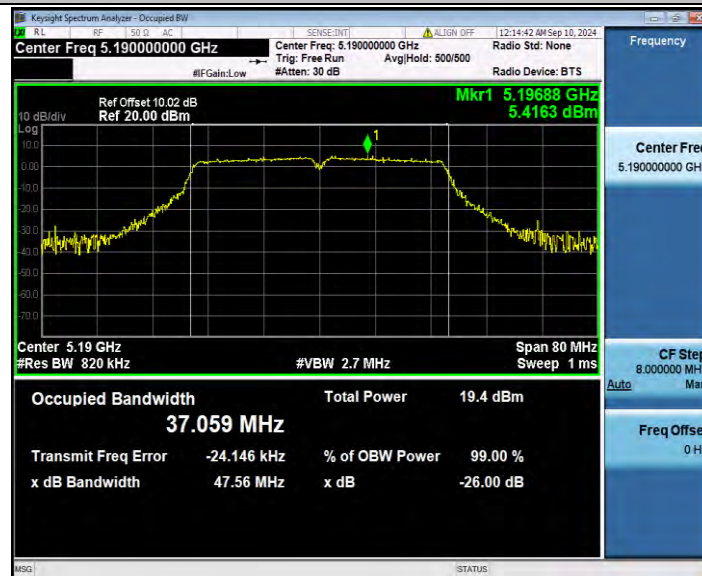
11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



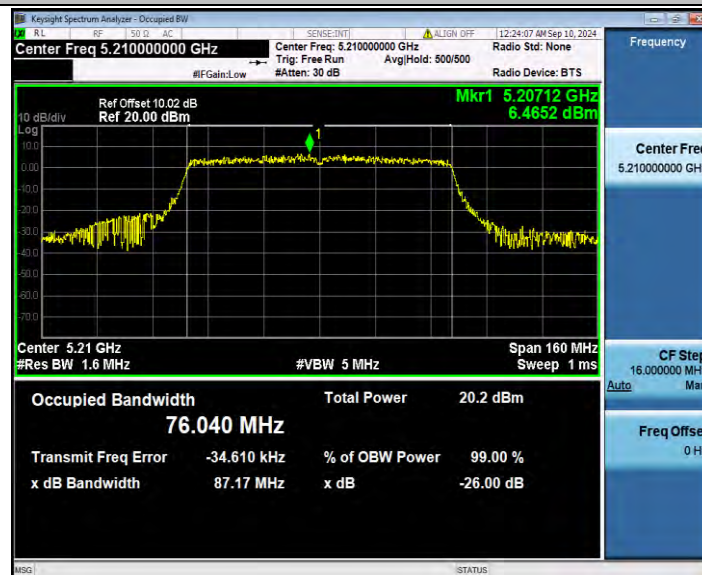
11AC40SISO_Ant1_5190



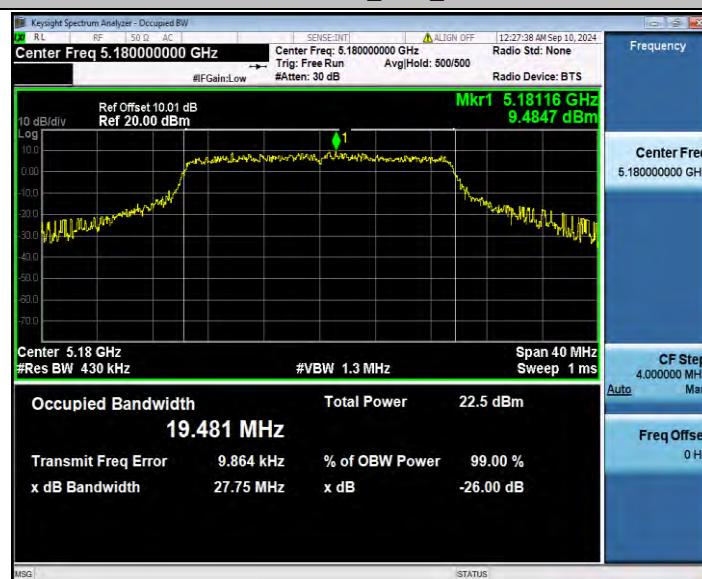
11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



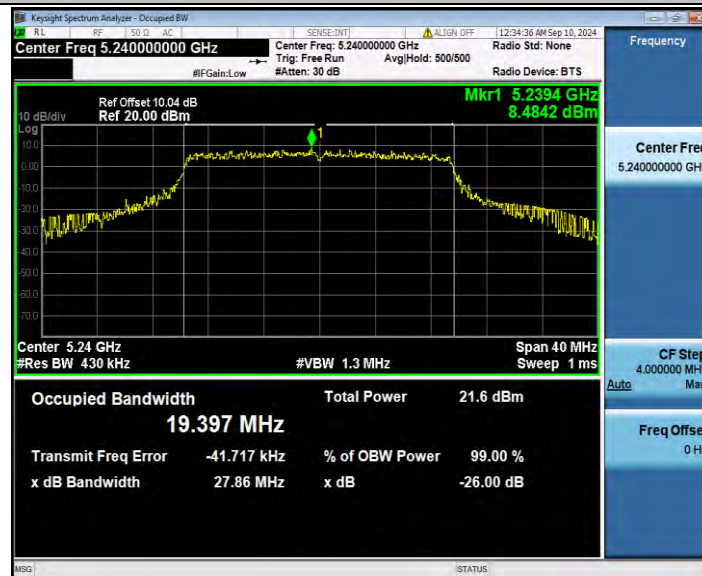
11AX20SISO_Ant1_5180



11AX20SISO_Ant1_5200



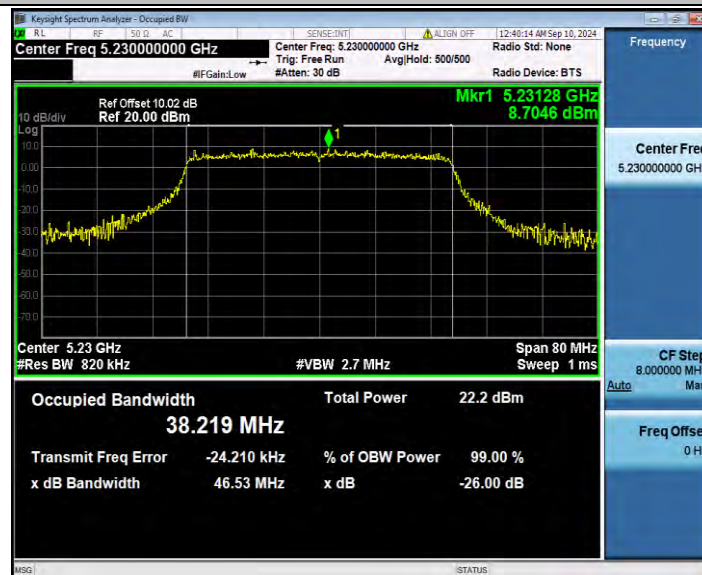
11AX20SISO_Ant1_5240



11AX40SISO_Ant1_5190



11AX40SISO_Ant1_5230



11AX80SISO_Ant1_5210



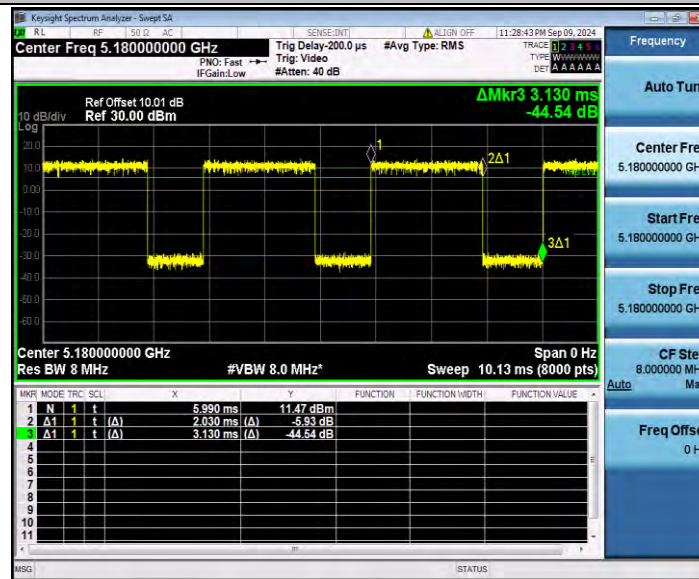
Appendix D.3: Duty Cycle

Test Result

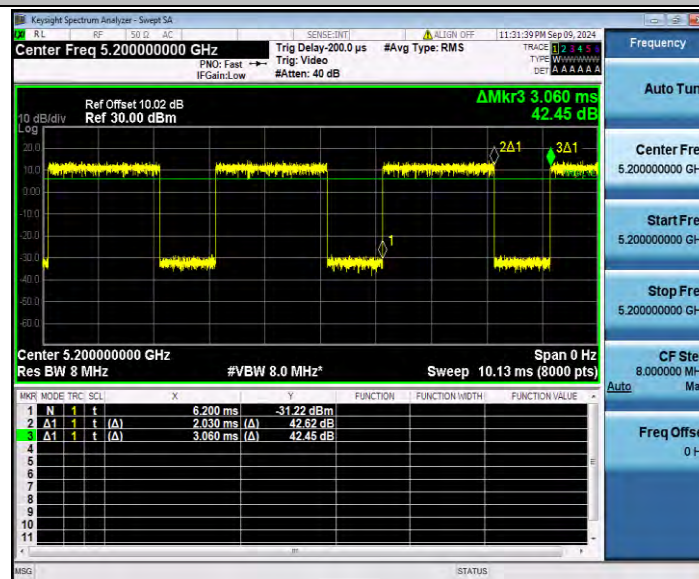
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5180	2.03	3.13	64.86	1.88	0.49
		5200	2.03	3.06	66.34	1.78	0.49
		5240	2.03	3.05	66.56	1.77	0.49
11N20SISO	Ant1	5180	1.89	2.91	64.95	1.87	0.53
		5200	1.89	2.92	64.73	1.89	0.53
		5240	1.90	2.92	65.07	1.87	0.53
11N40SISO	Ant1	5190	0.93	1.95	47.69	3.22	1.08
		5230	0.93	1.96	47.45	3.24	1.08
11AC20SISO	Ant1	5180	1.90	2.92	65.07	1.87	0.53
		5200	1.90	2.92	65.07	1.87	0.53
		5240	1.90	2.92	65.07	1.87	0.53
11AC40SISO	Ant1	5190	0.94	1.96	47.96	3.19	1.06
		5230	0.93	2.14	43.46	3.62	1.08
11AC80SISO	Ant1	5210	0.45	1.48	30.41	5.17	2.22
11AX20SISO	Ant1	5180	1.46	2.48	58.87	2.30	0.68
		5200	1.46	2.47	59.11	2.28	0.68
		5240	1.46	2.48	58.87	2.30	0.68
11AX40SISO	Ant1	5190	0.76	1.78	42.70	3.70	1.32
		5230	0.76	2.85	26.67	5.74	1.32
11AX80SISO	Ant1	5210	0.39	1.41	27.66	5.58	2.56

Test Graphs

11A_Ant1_5180



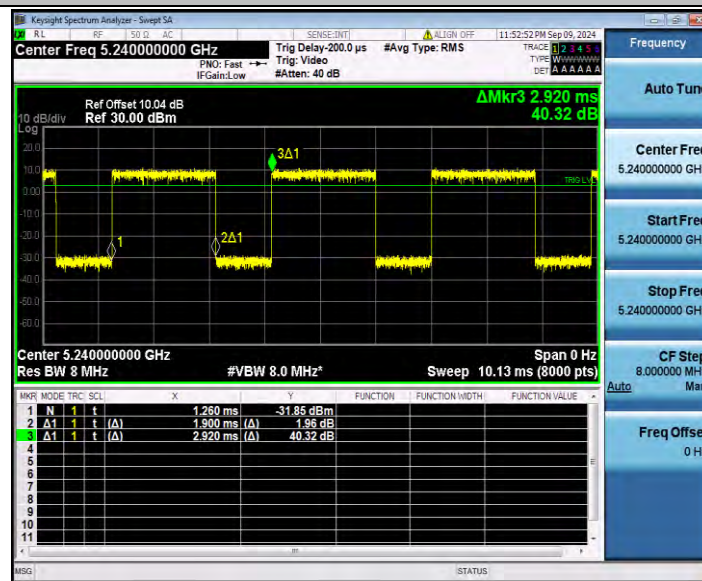
11A_Ant1_5200



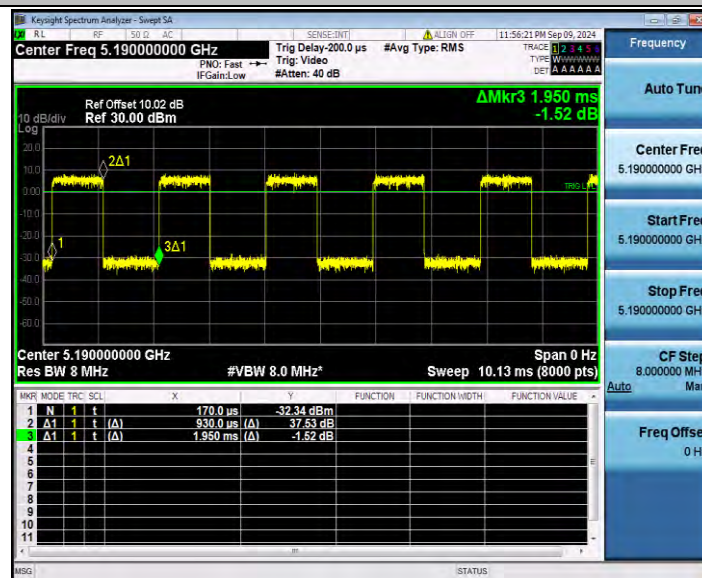
11A_Ant1_5240



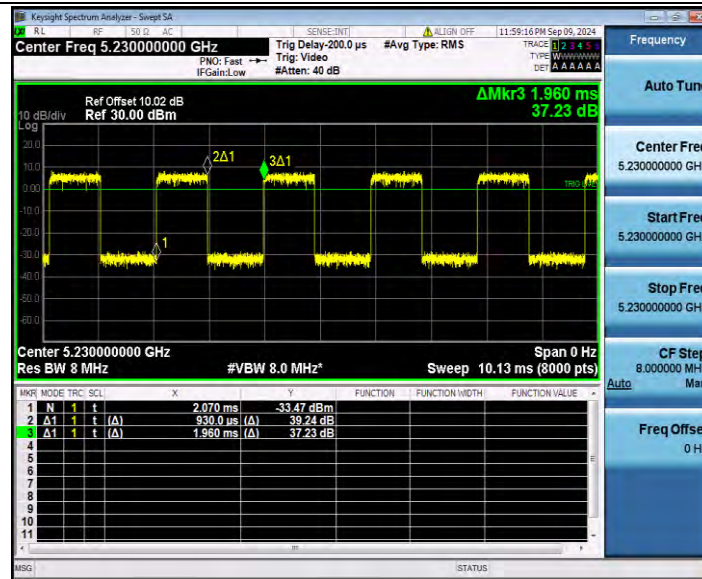
11N20SISO_Ant1_5240



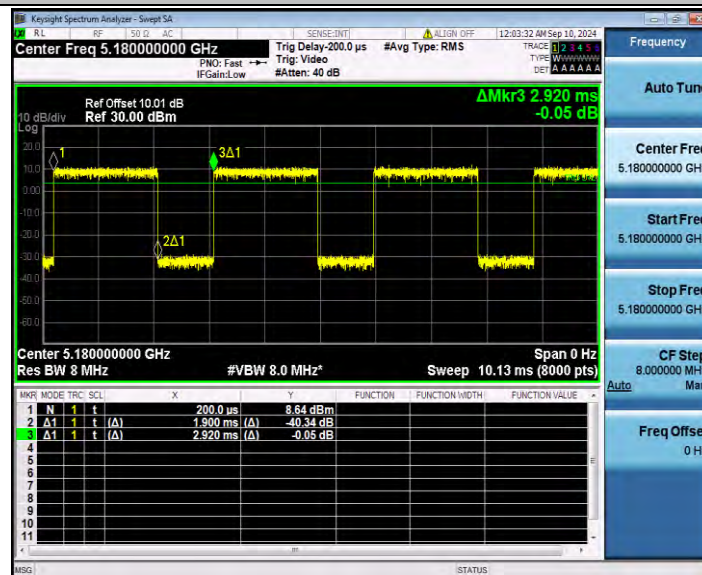
11N40SISO_Ant1_5190



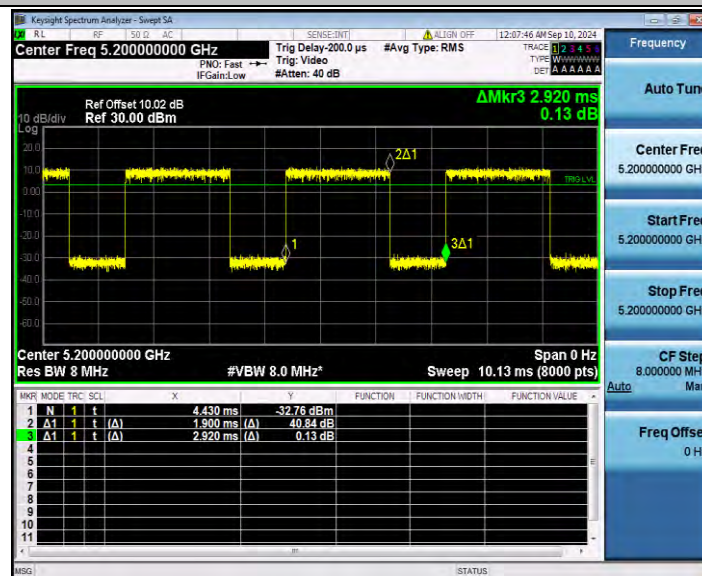
11N40SISO_Ant1_5230

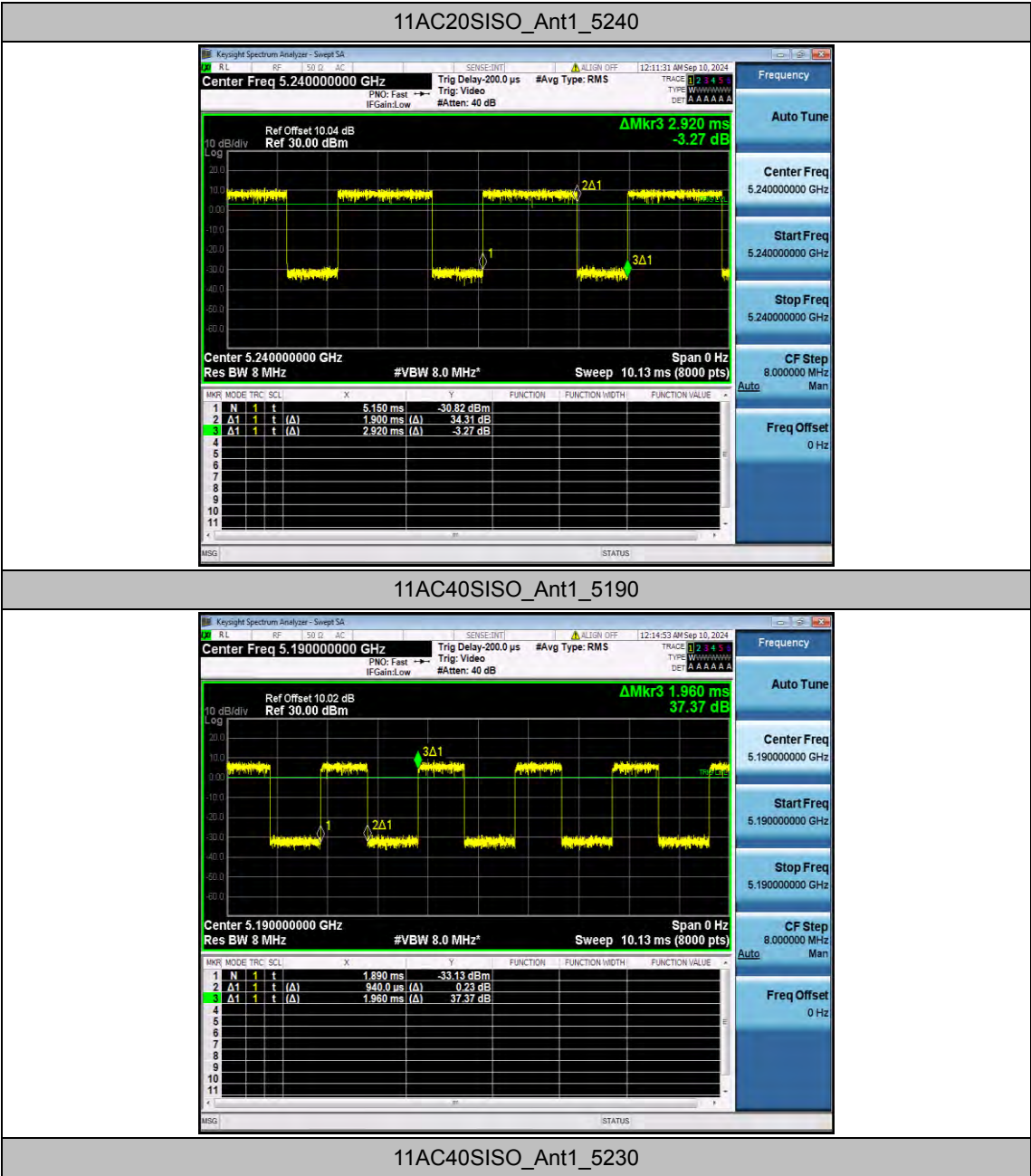


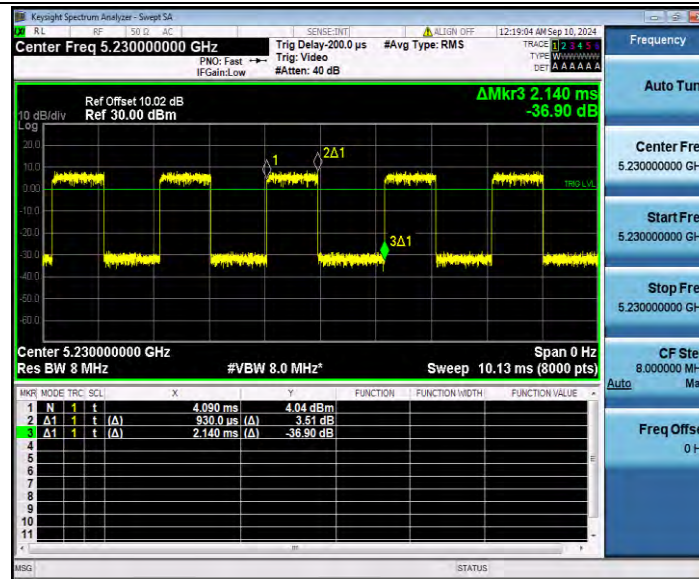
11AC20SISO_Ant1_5180



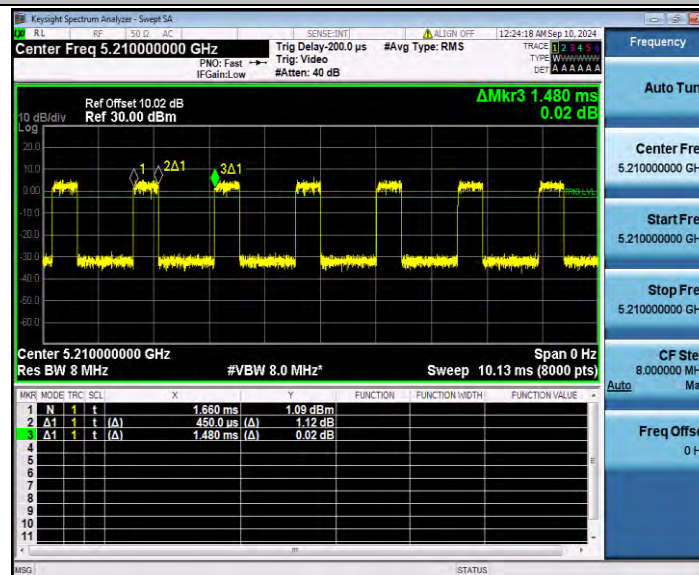
11AC20SISO_Ant1_5200



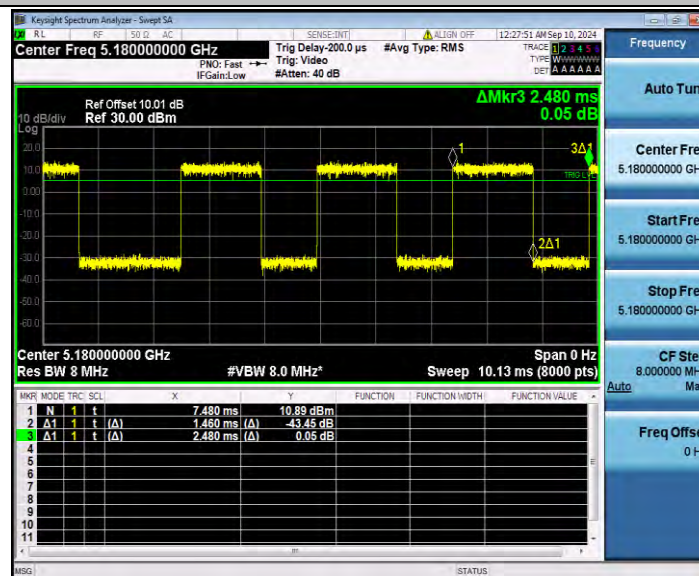


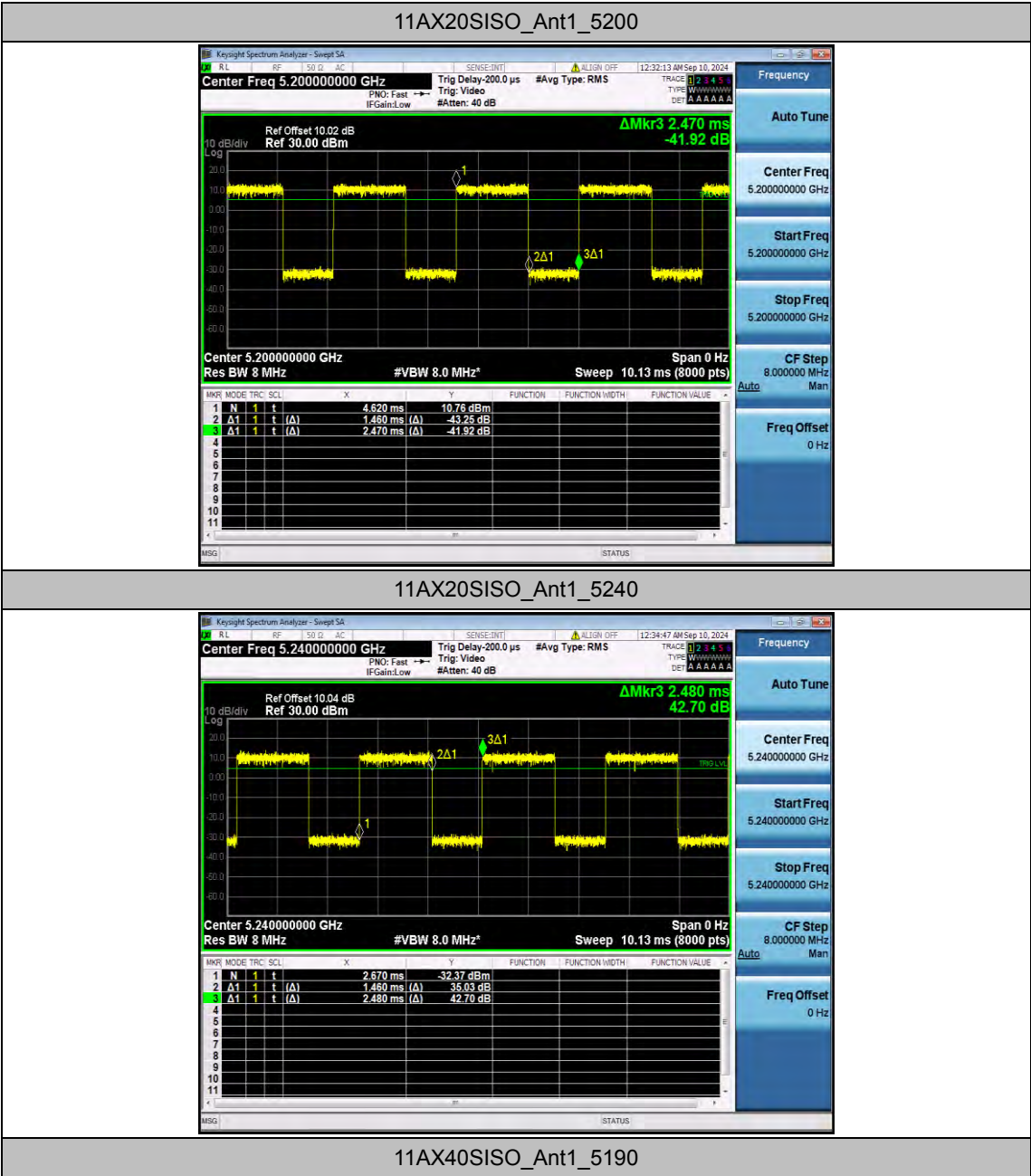


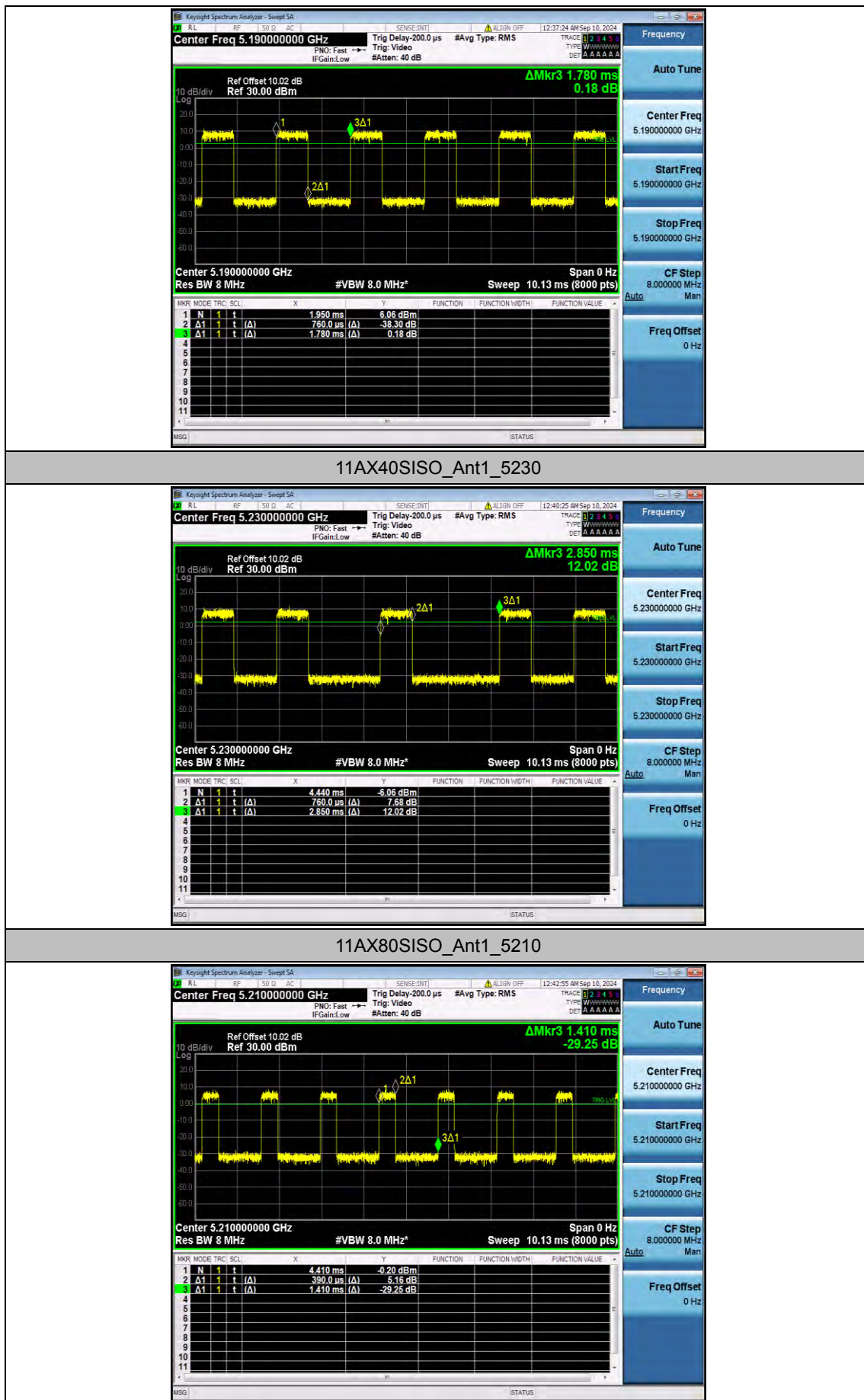
11AC80SISO_Ant1_5210



11AX20SISO_Ant1_5180







Appendix D.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Freq(MHz)	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	12.68	64.86	1.88	14.56	≤23.98	PASS
		5200	11.84	66.34	1.78	13.62	≤23.98	PASS
		5240	11.66	66.56	1.77	13.43	≤23.98	PASS
11N20SISO	Ant1	5180	10.29	64.95	1.87	12.16	≤23.98	PASS
		5200	10.41	64.73	1.89	12.30	≤23.98	PASS
		5240	9.63	65.07	1.87	11.50	≤23.98	PASS
11N40SISO	Ant1	5190	8.76	47.69	3.22	11.98	≤23.98	PASS
		5230	8.65	47.45	3.24	11.89	≤23.98	PASS
11AC20SISO	Ant1	5180	10.03	65.07	1.87	11.90	≤23.98	PASS
		5200	9.84	65.07	1.87	11.71	≤23.98	PASS
		5240	9.68	65.07	1.87	11.55	≤23.98	PASS
11AC40SISO	Ant1	5190	8.55	47.96	3.19	11.74	≤23.98	PASS
		5230	8.47	43.46	3.62	12.09	≤23.98	PASS
11AC80SISO	Ant1	5210	6.84	30.41	5.17	12.01	≤23.98	PASS
11AX20SISO	Ant1	5180	11.59	58.87	2.30	13.89	≤23.98	PASS
		5200	12.04	59.11	2.28	14.32	≤23.98	PASS
		5240	11.37	58.87	2.30	13.67	≤23.98	PASS
11AX40SISO	Ant1	5190	10.61	42.70	3.70	14.31	≤23.98	PASS
		5230	10.26	26.67	5.74	16.00	≤23.98	PASS
11AX80SISO	Ant1	5210	8.72	27.66	5.58	14.30	≤23.98	PASS

Appendix D.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	4.75	≤11.00	PASS
		5200	4.66	≤11.00	PASS
		5240	4.18	≤11.00	PASS
11N20SISO	Ant1	5180	2.25	≤11.00	PASS
		5200	2.30	≤11.00	PASS
		5240	1.81	≤11.00	PASS
11N40SISO	Ant1	5190	0.56	≤11.00	PASS
		5230	0.27	≤11.00	PASS
11AC20SISO	Ant1	5180	2.27	≤11.00	PASS
		5200	2.27	≤11.00	PASS
		5240	1.78	≤11.00	PASS
11AC40SISO	Ant1	5190	0.40	≤11.00	PASS
		5230	0.57	≤11.00	PASS
11AC80SISO	Ant1	5210	-3.61	≤11.00	PASS
11AX20SISO	Ant1	5180	4.69	≤11.00	PASS
		5200	4.54	≤11.00	PASS
		5240	4.07	≤11.00	PASS
11AX40SISO	Ant1	5190	2.06	≤11.00	PASS
		5230	3.69	≤11.00	PASS
11AX80SISO	Ant1	5210	-1.85	≤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



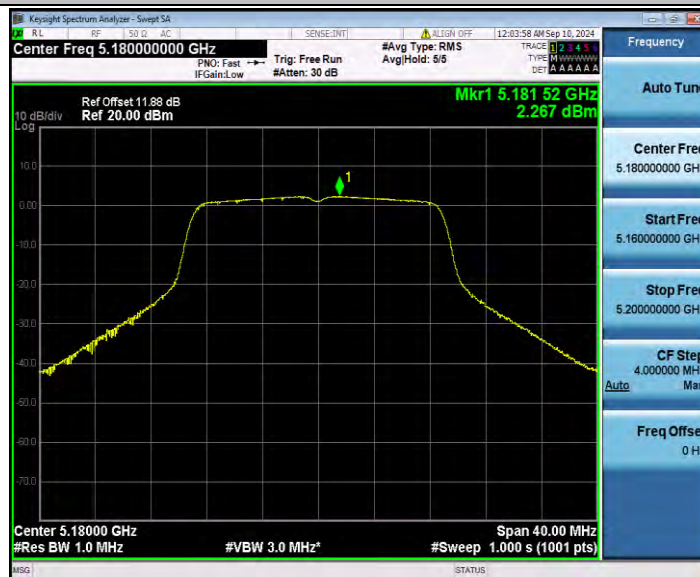
11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



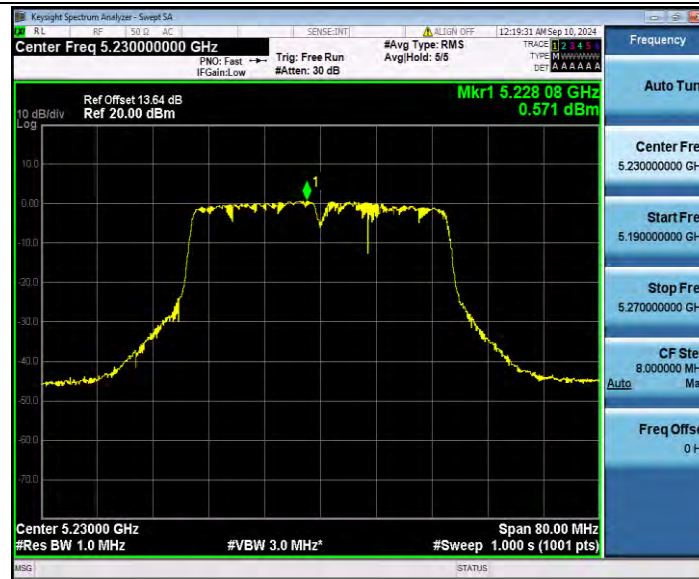
11AC20SISO_Ant1_5240



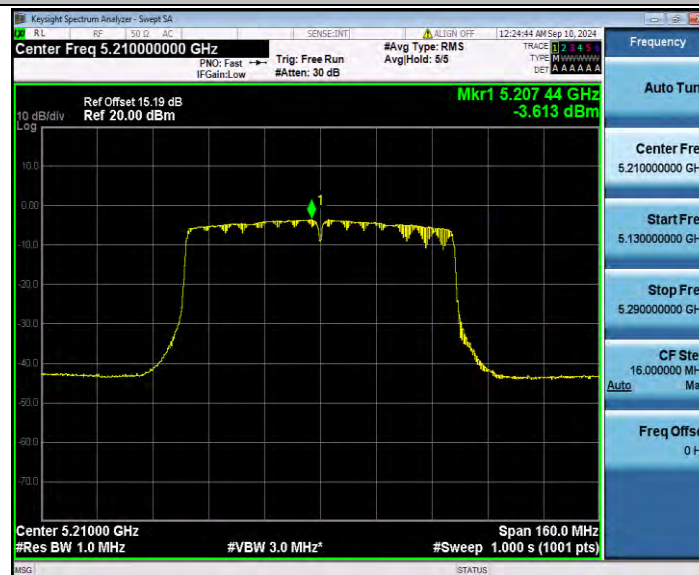
11AC40SISO_Ant1_5190



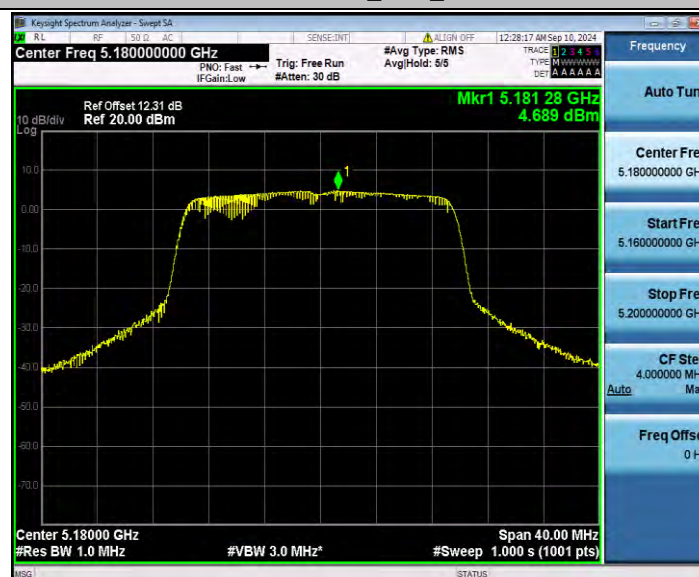
11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



11AX20SISO_Ant1_5180



11AX20SISO_Ant1_5200



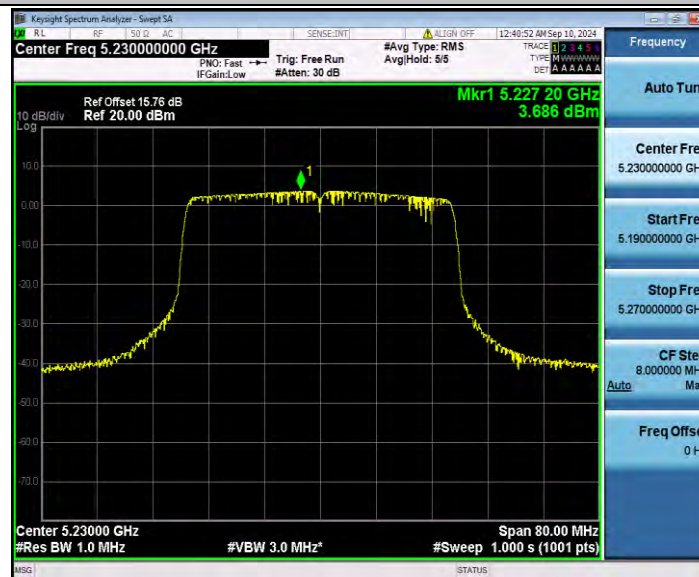
11AX20SISO_Ant1_5240



11AX40SISO_Ant1_5190



11AX40SISO_Ant1_5230



11AX80SISO_Ant1_5210

