

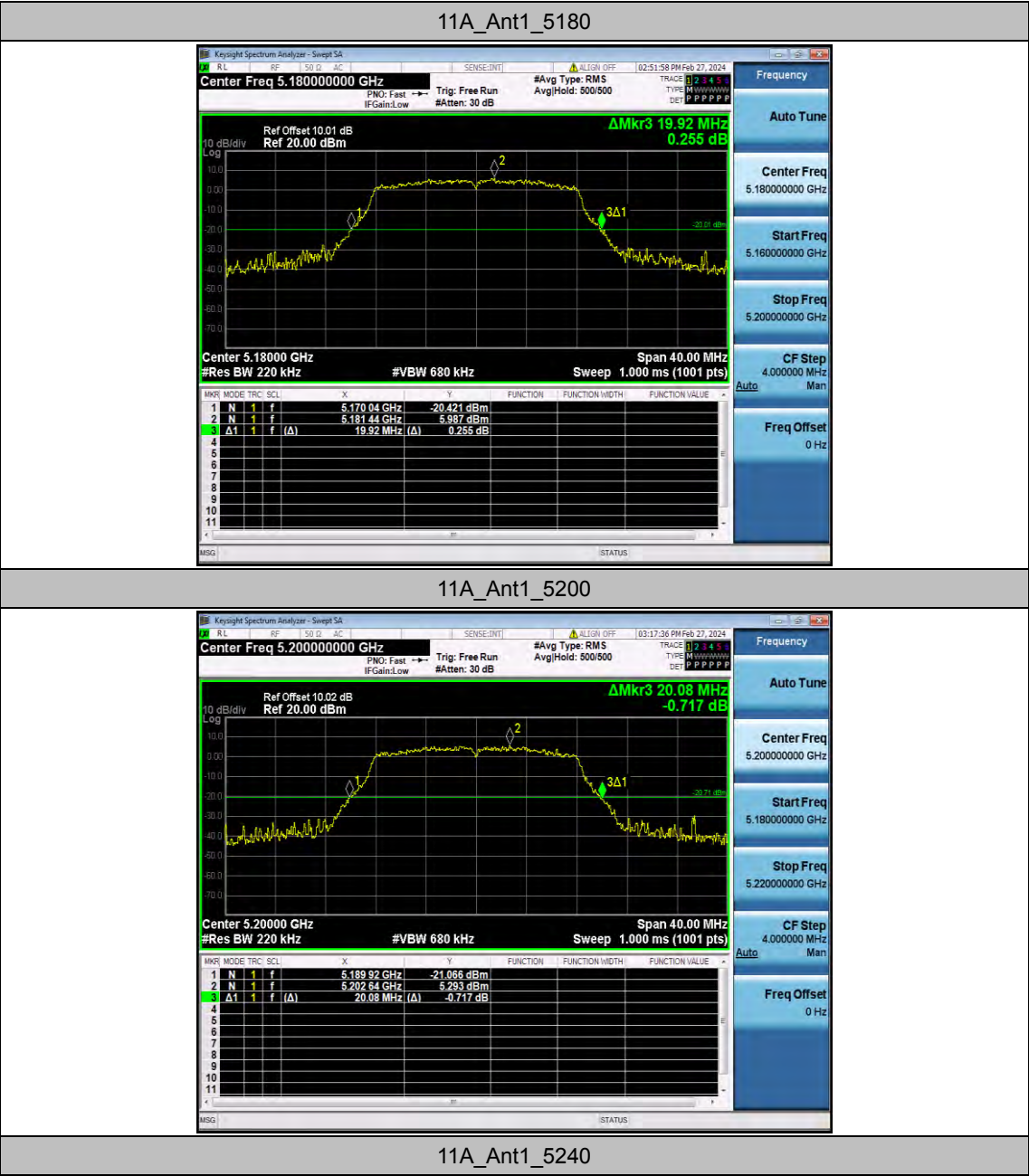
Case No. : <u>GTS20231208004-1-1</u>	
Ambient Condition: <u>22</u> °C, <u>49</u> %RH	
According Standard: ■Part15E	
Test Date: <u>2024.2.27</u>	Test Engineer: <u>Evan ouyang</u>

Appendix D.1: Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	19.920	5170.040	5189.960	---	---
		5200	20.080	5189.920	5210.000	---	---
		5240	20.080	5229.840	5249.920	---	---
11N20SISO	Ant1	5180	20.480	5169.800	5190.280	---	---
		5200	20.440	5189.680	5210.120	---	---
		5240	20.600	5229.560	5250.160	---	---
11N40SISO	Ant1	5190	39.520	5170.160	5209.680	---	---
		5230	39.840	5209.920	5249.760	---	---
11AC20SISO	Ant1	5180	20.480	5169.720	5190.200	---	---
		5200	20.520	5189.600	5210.120	---	---
		5240	20.440	5229.760	5250.200	---	---
11AC40SISO	Ant1	5190	40.160	5170.080	5210.240	---	---
		5230	39.440	5210.320	5249.760	---	---
11AX20SISO	Ant1	5180	21.000	5169.600	5190.600	---	---
		5200	20.560	5189.720	5210.280	---	---
		5240	20.720	5229.560	5250.280	---	---
11AX40SISO	Ant1	5190	40.080	5169.920	5210.000	---	---
		5230	40.000	5209.920	5249.920	---	---

Test Graphs



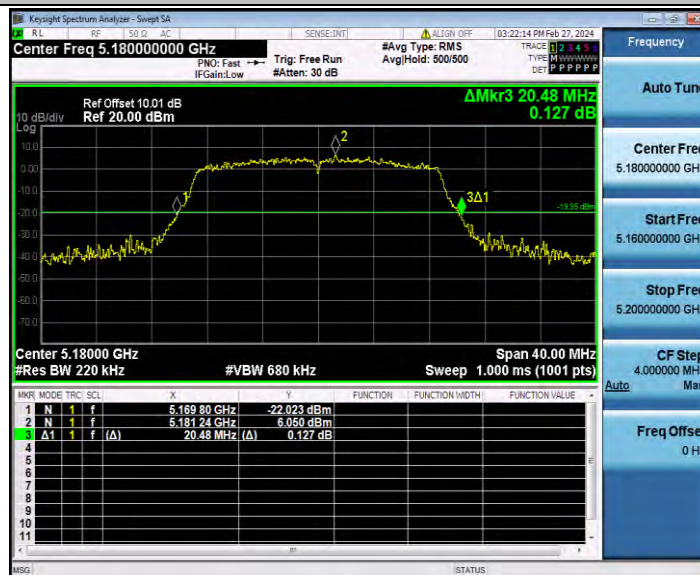
11A_Ant1_5200

Frequency
Auto Tune
Center Freq 5.20000000 GHz
Start Freq 5.180000000 GHz
Stop Freq 5.220000000 GHz
CF Step 4.000000 MHz
Freq Offset 0 Hz

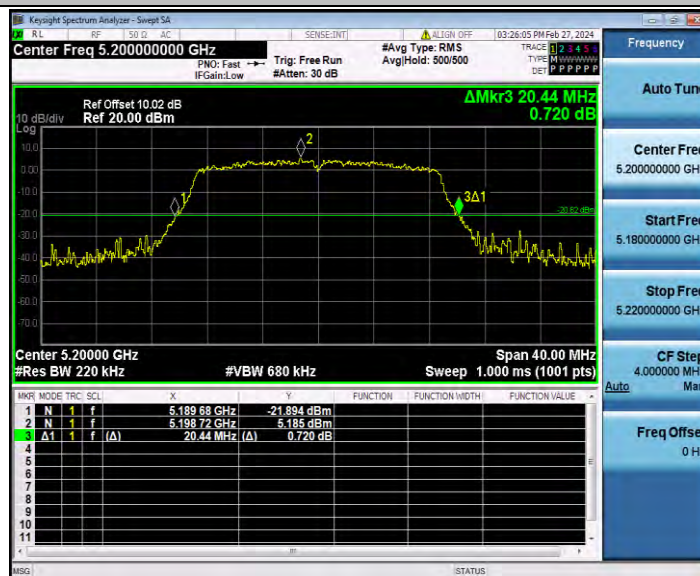
11A_Ant1_5240



11N20SISO_Ant1_5180



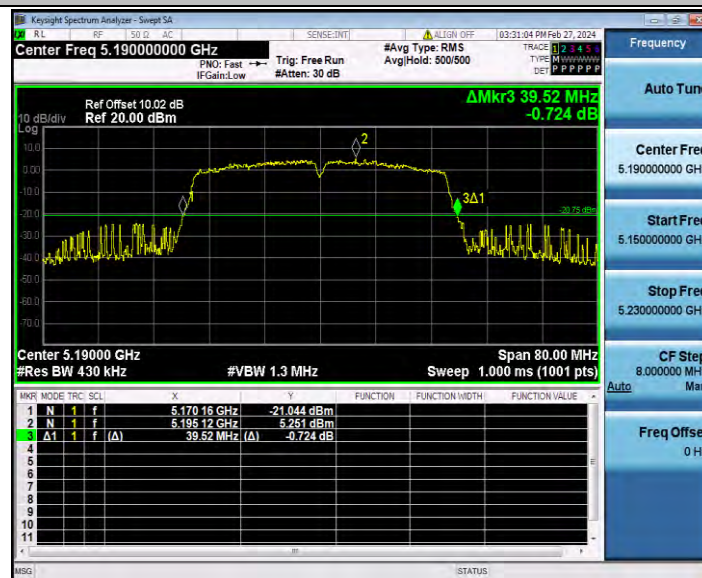
11N20SISO_Ant1_5200



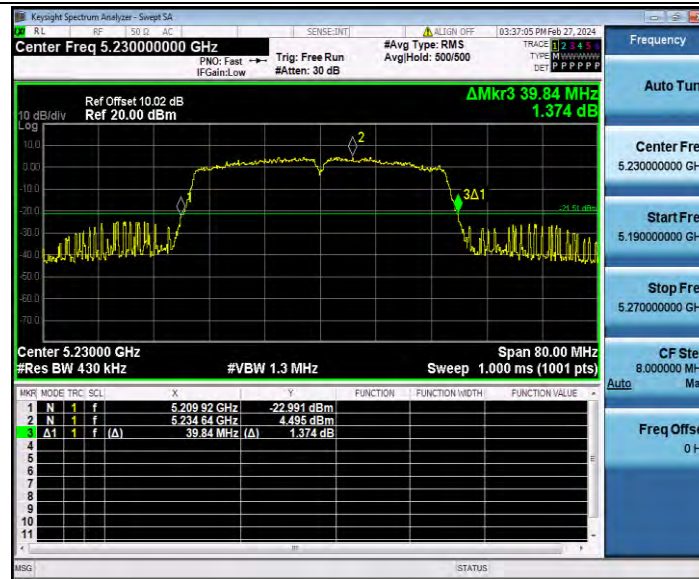
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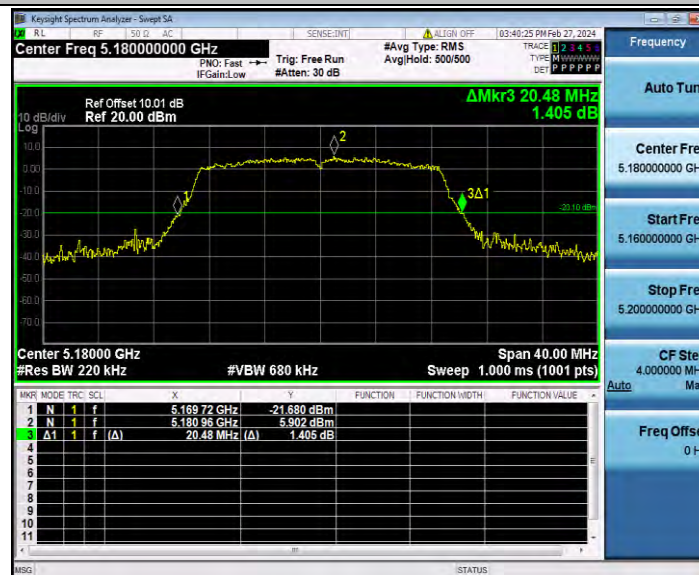
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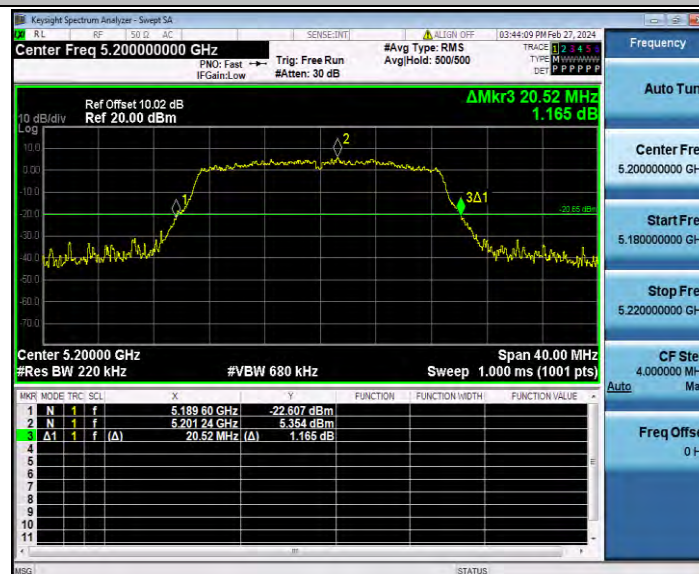
11N40SISO_Ant1_5230



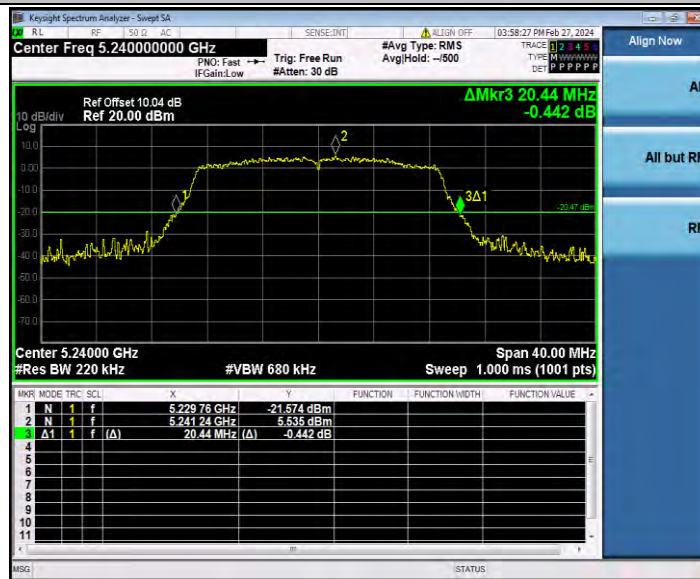
11AC20SISO_Ant1_5180



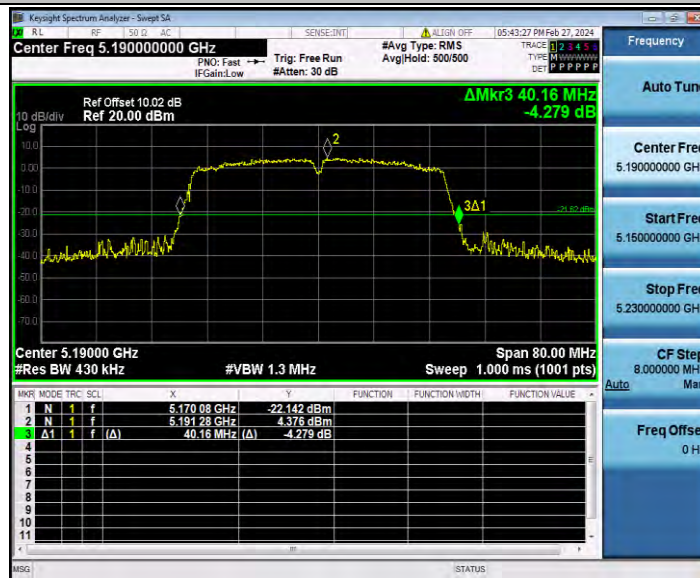
11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AX20SISO_Ant1_5240



11AX40SISO_Ant1_5190



11AX40SISO_Ant1_5230

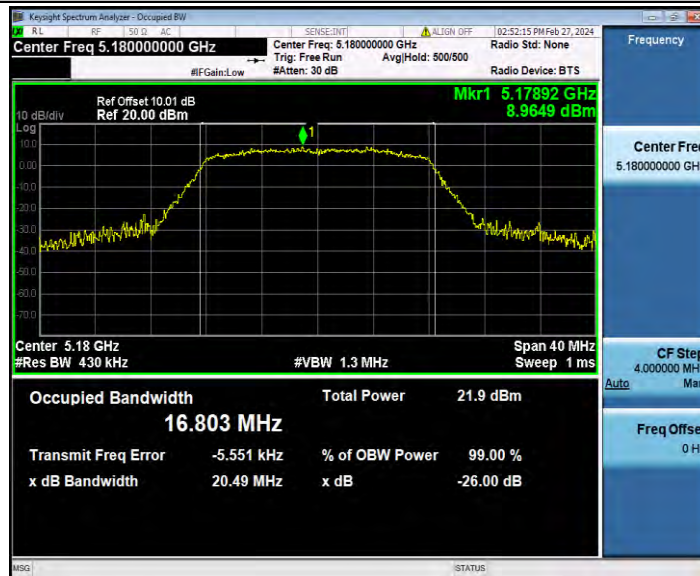
Appendix D.2: Occupied channel bandwidth

Test Result

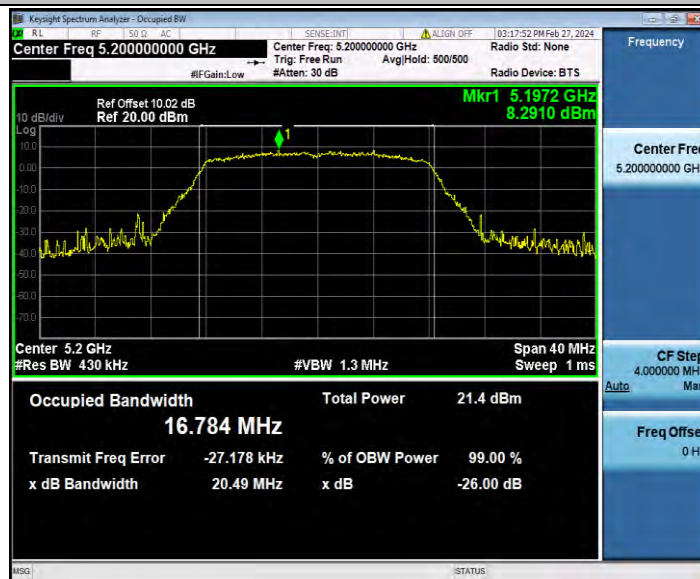
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.803	5171.5930	5188.3960	---	---
		5200	16.784	5191.5808	5208.3648	---	---
		5240	16.770	5231.5341	5248.3041	---	---
11N20SISO	Ant1	5180	17.736	5171.1224	5188.8584	---	---
		5200	17.703	5191.1193	5208.8223	---	---
		5240	17.713	5231.0952	5248.8082	---	---
11N40SISO	Ant1	5190	35.932	5172.0303	5207.9623	---	---
		5230	35.930	5212.0038	5247.9338	---	---
11AC20SISO	Ant1	5180	17.722	5171.1405	5188.8625	---	---
		5200	17.715	5191.1219	5208.8369	---	---
		5240	17.700	5231.1104	5248.8104	---	---
11AC40SISO	Ant1	5190	35.919	5172.0253	5207.9443	---	---
		5230	35.974	5212.0150	5247.9890	---	---
11AX20SISO	Ant1	5180	18.776	5170.5884	5189.3644	---	---
		5200	18.781	5190.5816	5209.3626	---	---
		5240	18.777	5230.5889	5249.3659	---	---
11AX40SISO	Ant1	5190	37.258	5171.3598	5208.6178	---	---
		5230	37.271	5211.2749	5248.5459	---	---

Test Graphs

11A_Ant1_5180



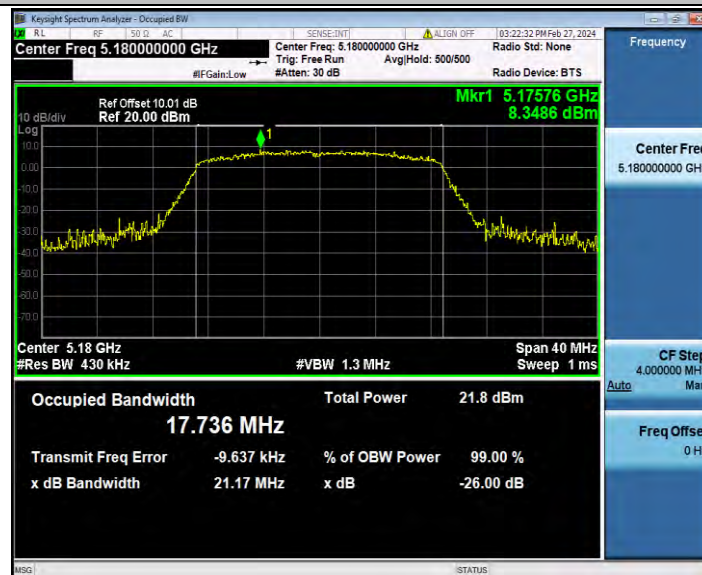
11A_Ant1_5200



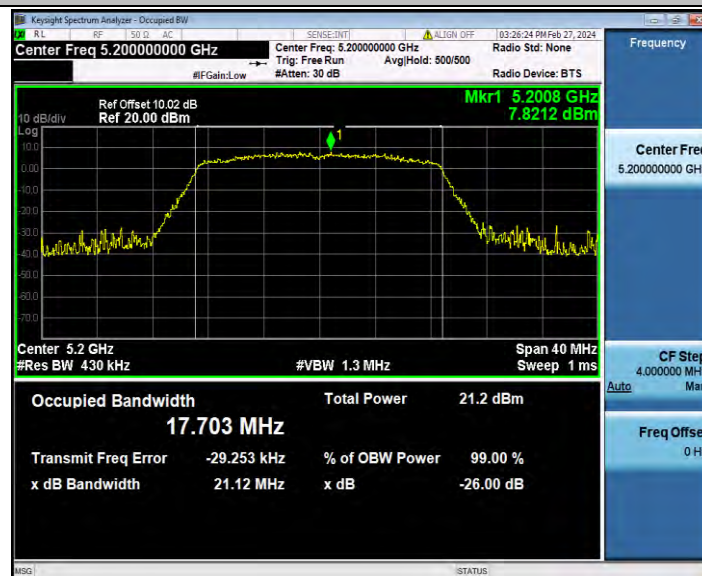
11A_Ant1_5240



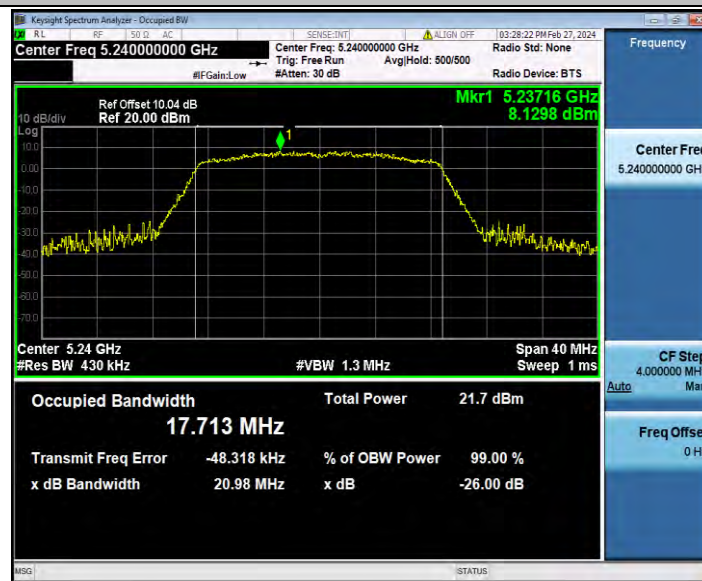
11N20SISO_Ant1_5180



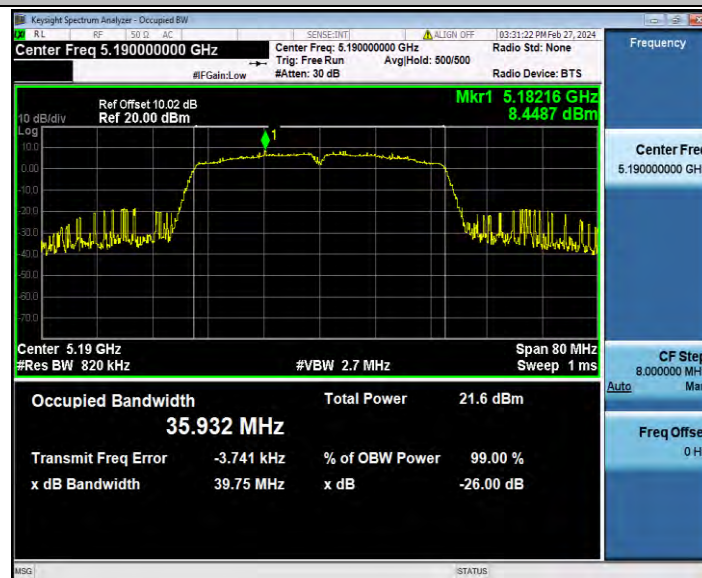
11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



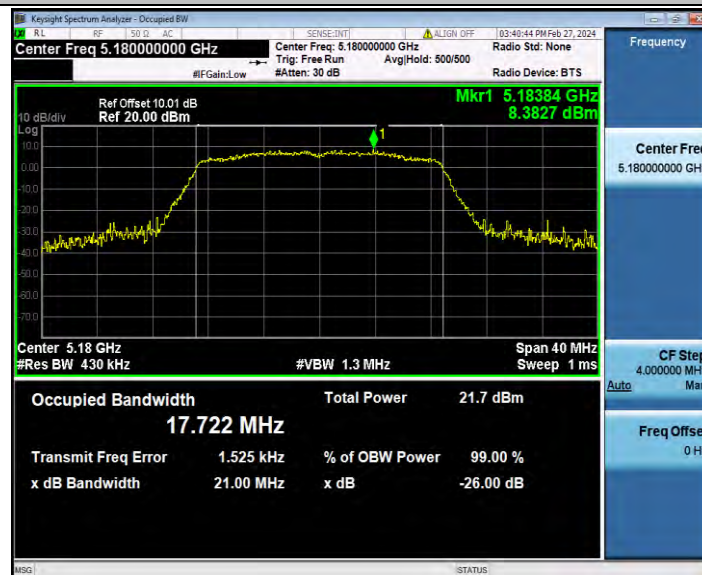
11N40SISO_Ant1_5190



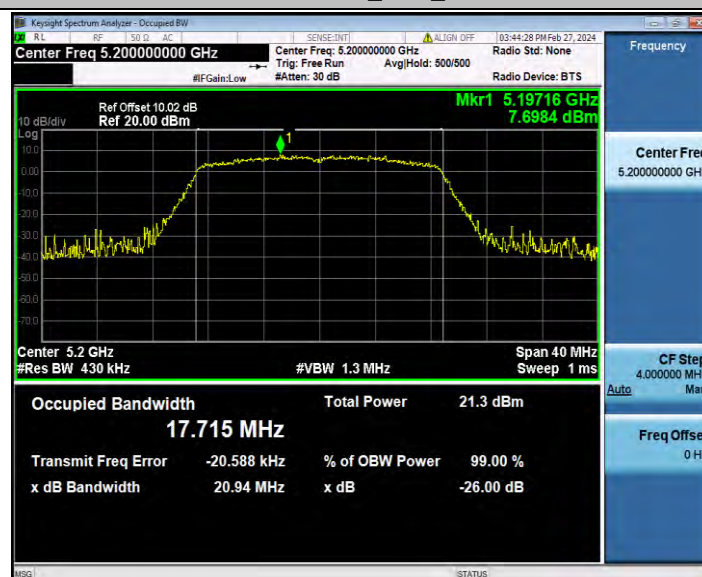
11N40SISO_Ant1_5230



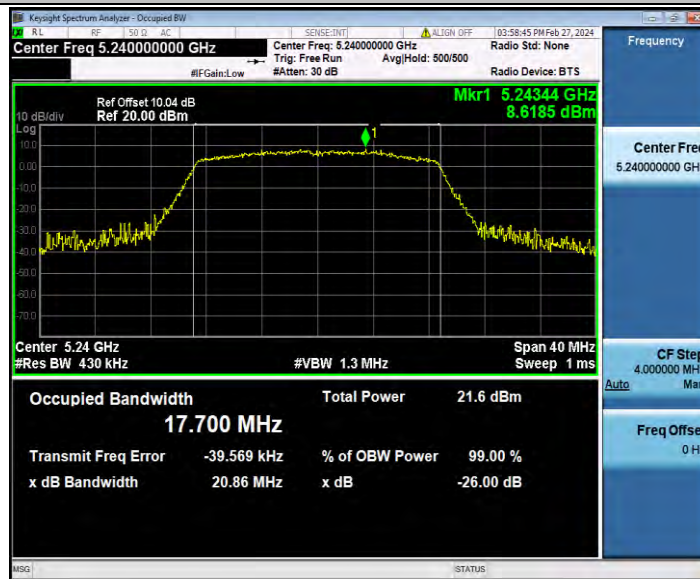
11AC20SISO_Ant1_5180



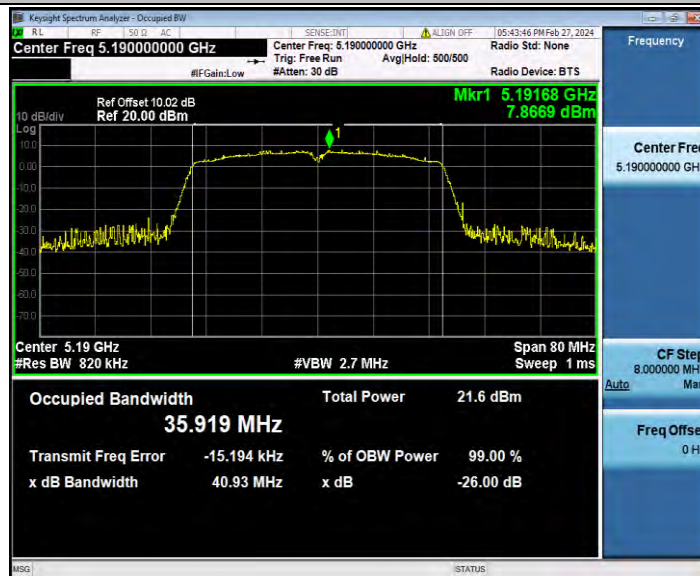
11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



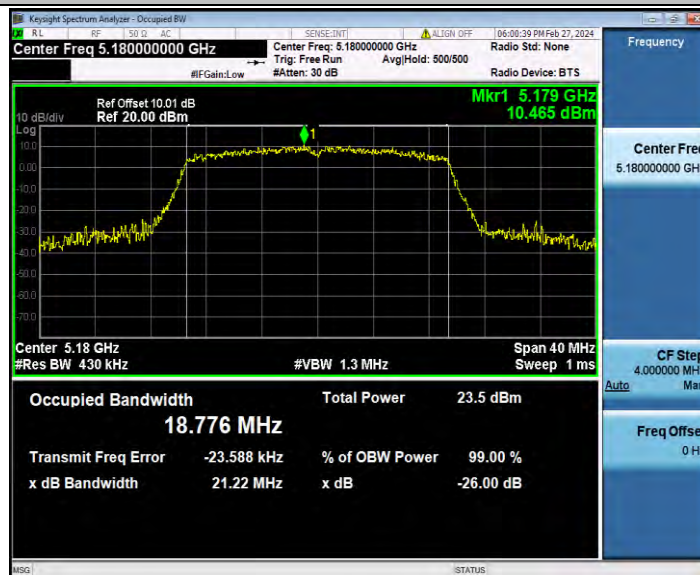
11AC40SISO_Ant1_5190



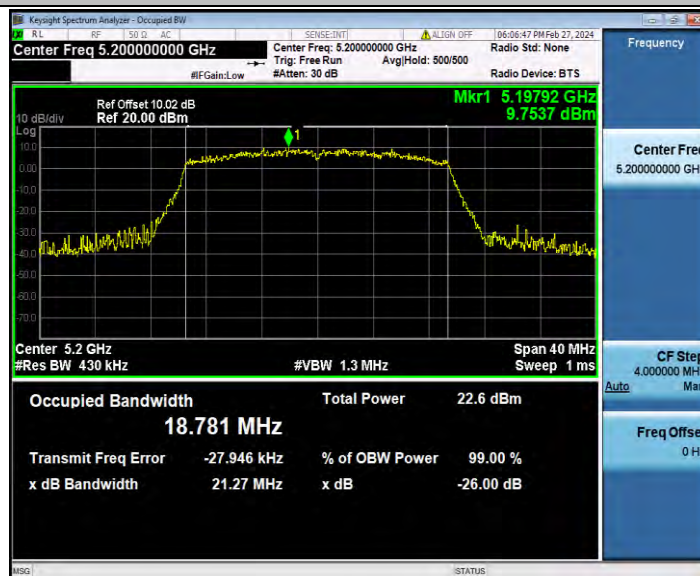
11AC40SISO_Ant1_5230



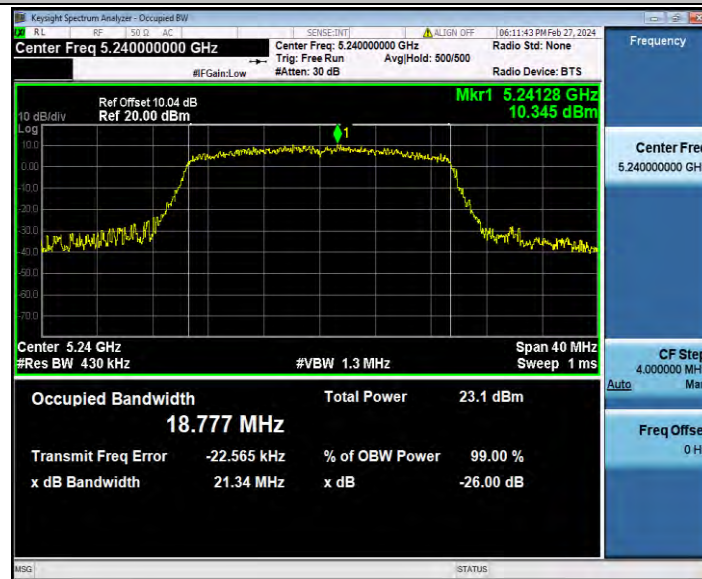
11AX20SISO_Ant1_5180



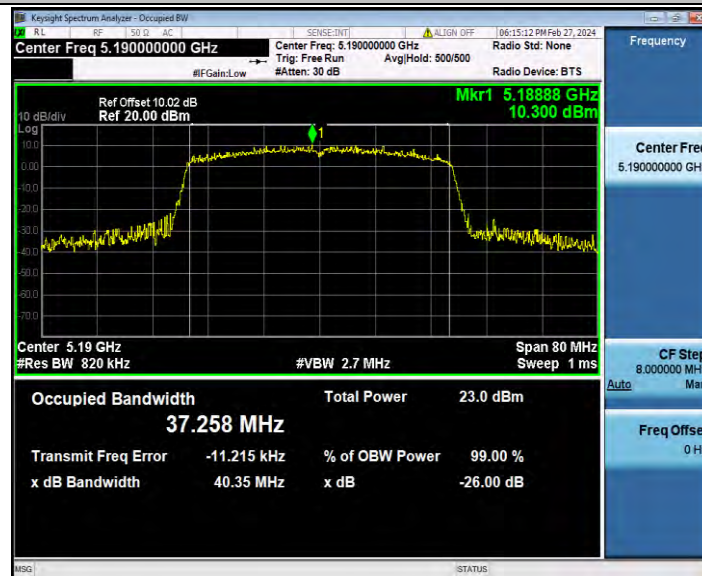
11AX20SISO_Ant1_5200



11AX20SISO_Ant1_5240



11AX40SISO_Ant1_5190



11AX40SISO_Ant1_5230

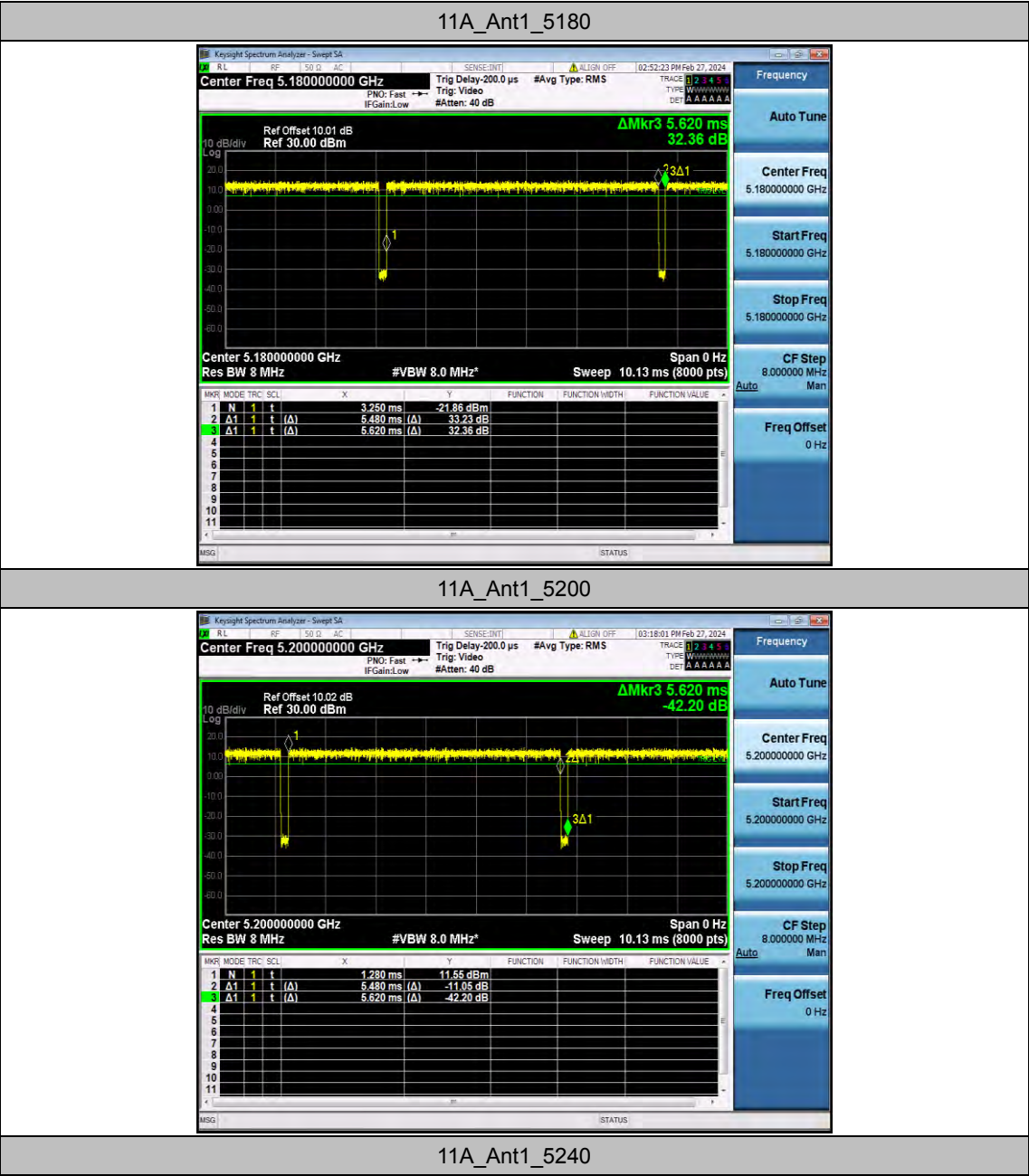


Appendix D.3: Duty Cycle

Test Result

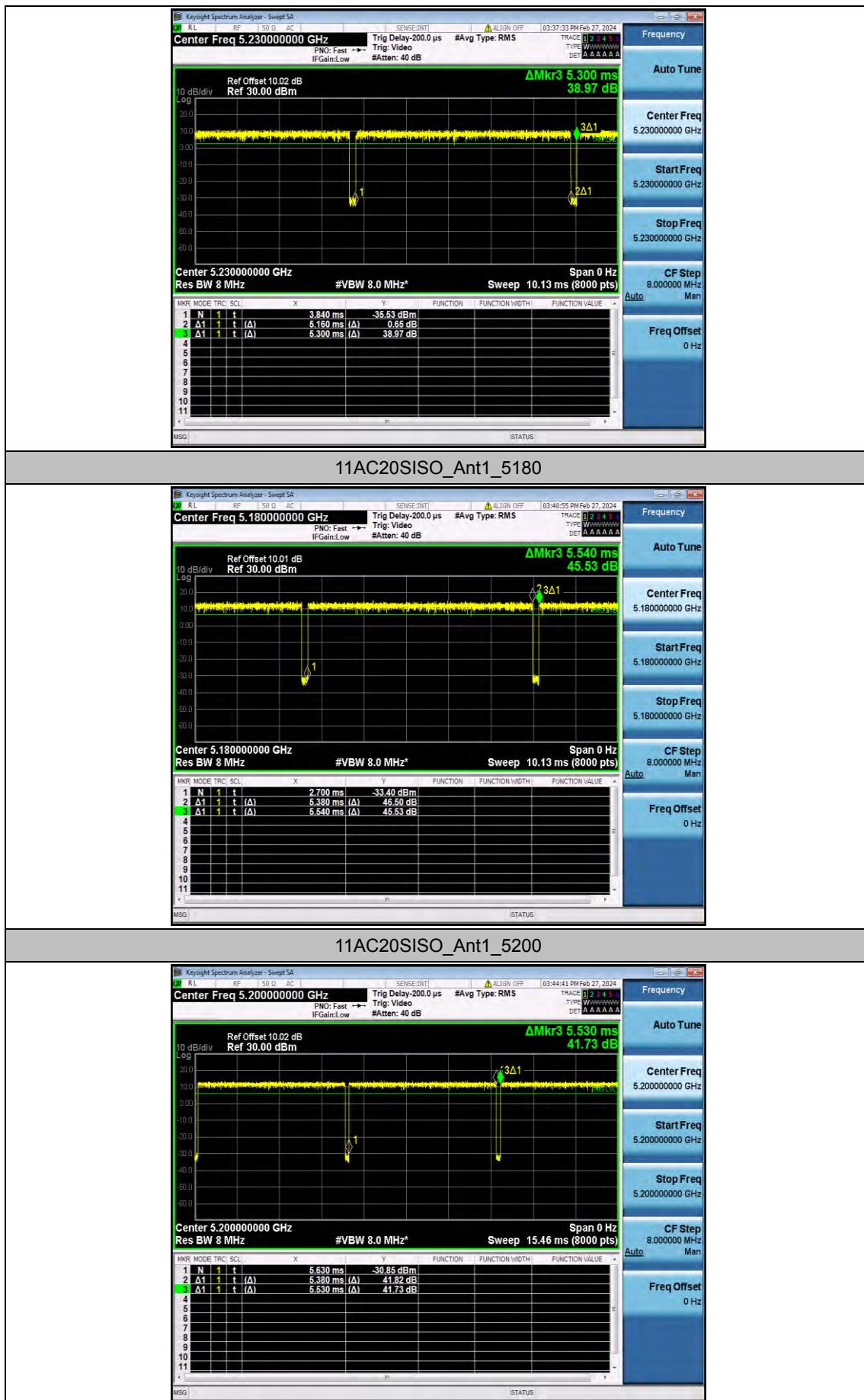
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5180	5.48	5.62	97.51	0.11	0.18
		5200	5.48	5.62	97.51	0.11	0.18
		5240	5.48	5.62	97.51	0.11	0.18
11N20SISO	Ant1	5180	5.37	5.52	97.28	0.12	0.19
		5200	5.37	5.52	97.28	0.12	0.19
		5240	5.37	5.51	97.46	0.11	0.19
11N40SISO	Ant1	5190	5.15	5.29	97.35	0.12	0.19
		5230	5.16	5.30	97.36	0.12	0.19
11AC20SISO	Ant1	5180	5.38	5.54	97.11	0.13	0.19
		5200	5.38	5.53	97.29	0.12	0.19
		5240	5.38	5.53	97.29	0.12	0.19
11AC40SISO	Ant1	5190	5.16	5.30	97.36	0.12	0.19
		5230	5.16	5.30	97.36	0.12	0.19
11AX20SISO	Ant1	5180	4.65	4.80	96.88	0.14	0.22
		5200	4.65	4.80	96.88	0.14	0.22
		5240	4.65	4.79	97.08	0.13	0.22
11AX40SISO	Ant1	5190	4.64	4.78	97.07	0.13	0.22
		5230	4.64	4.77	97.27	0.12	0.22

Test Graphs

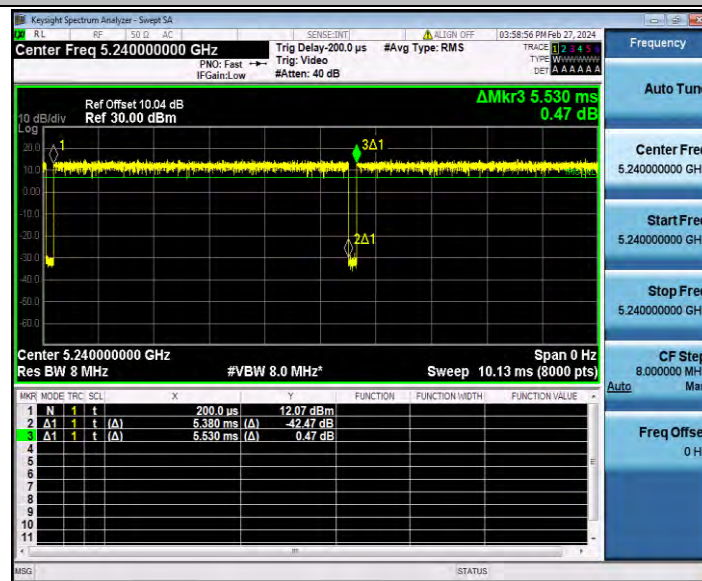




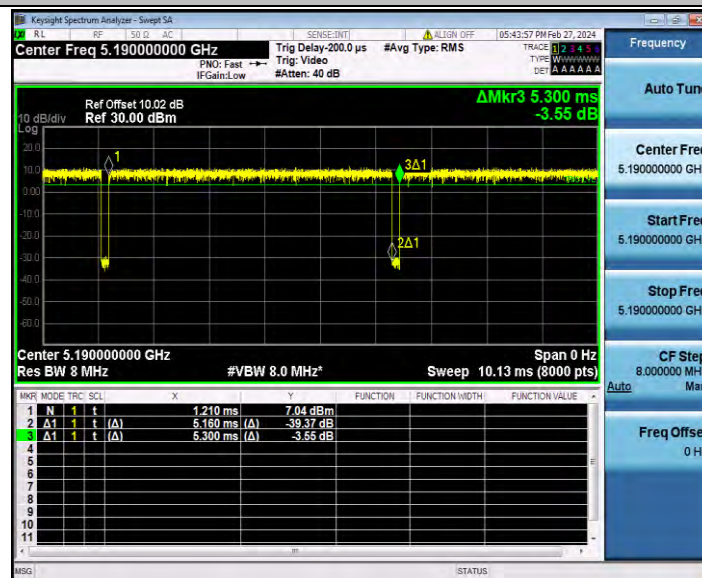




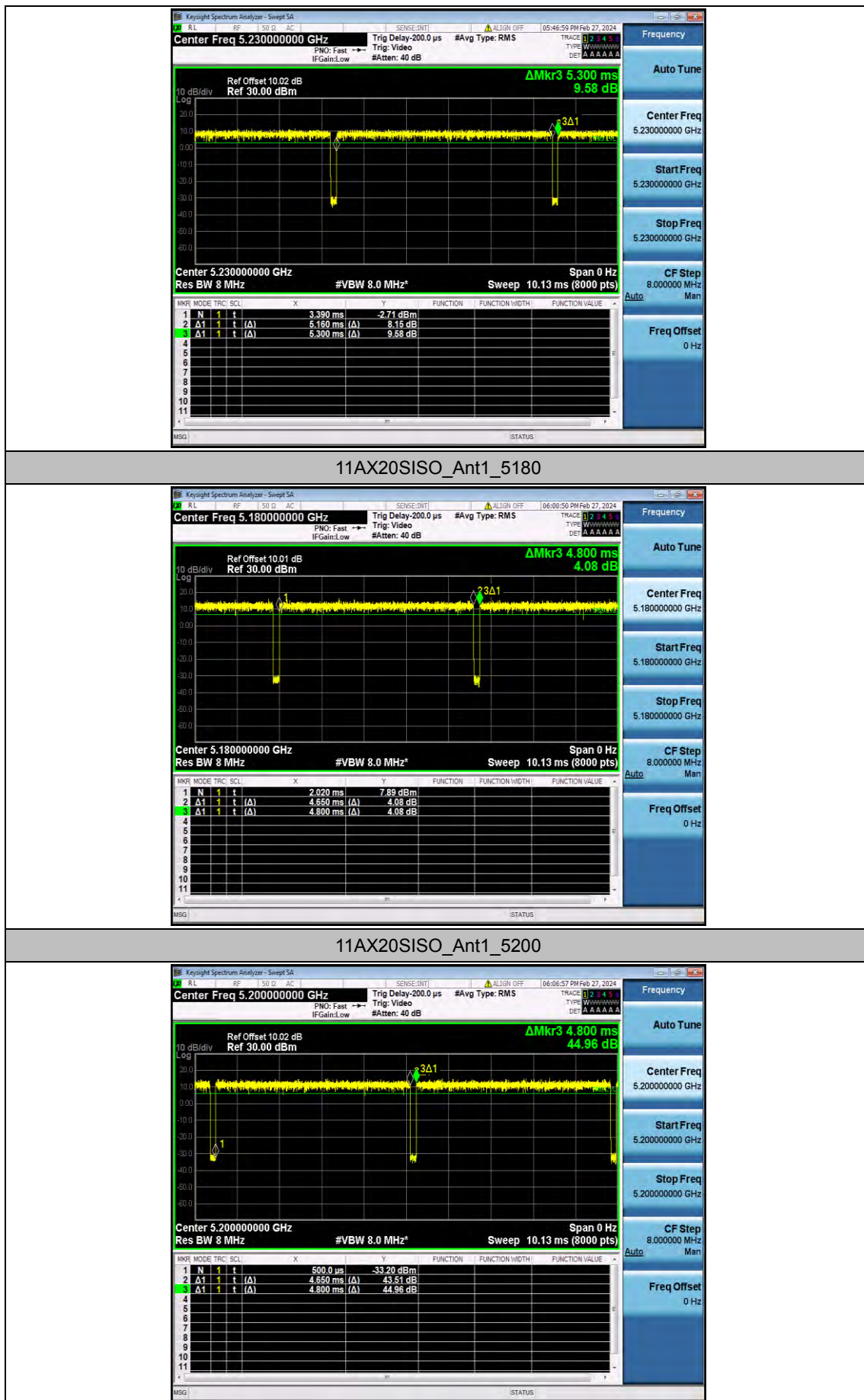
11AC20SISO_Ant1_5240



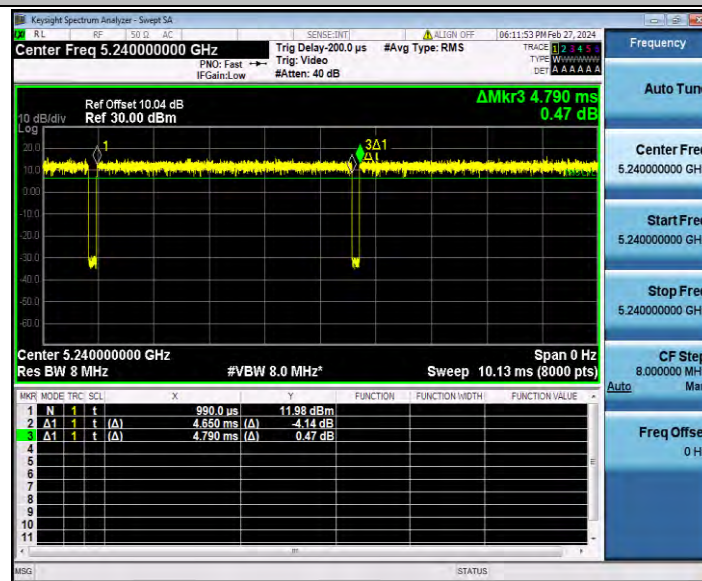
11AC40SISO_Ant1_5190



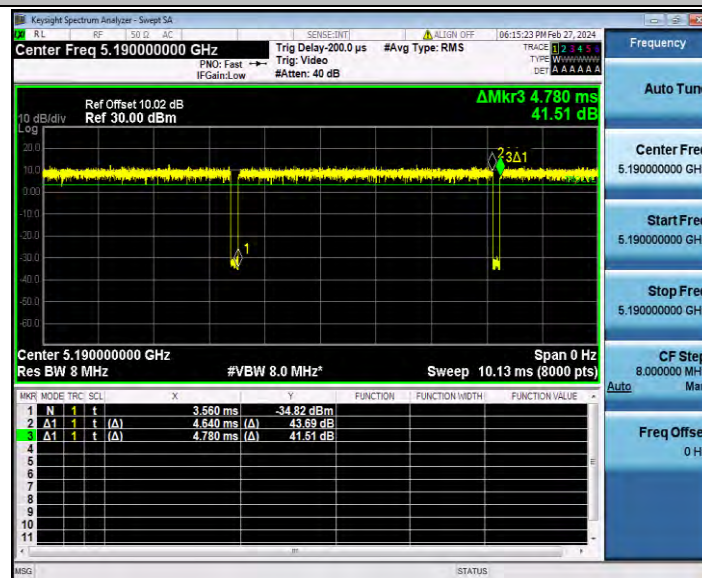
11AC40SISO_Ant1_5230



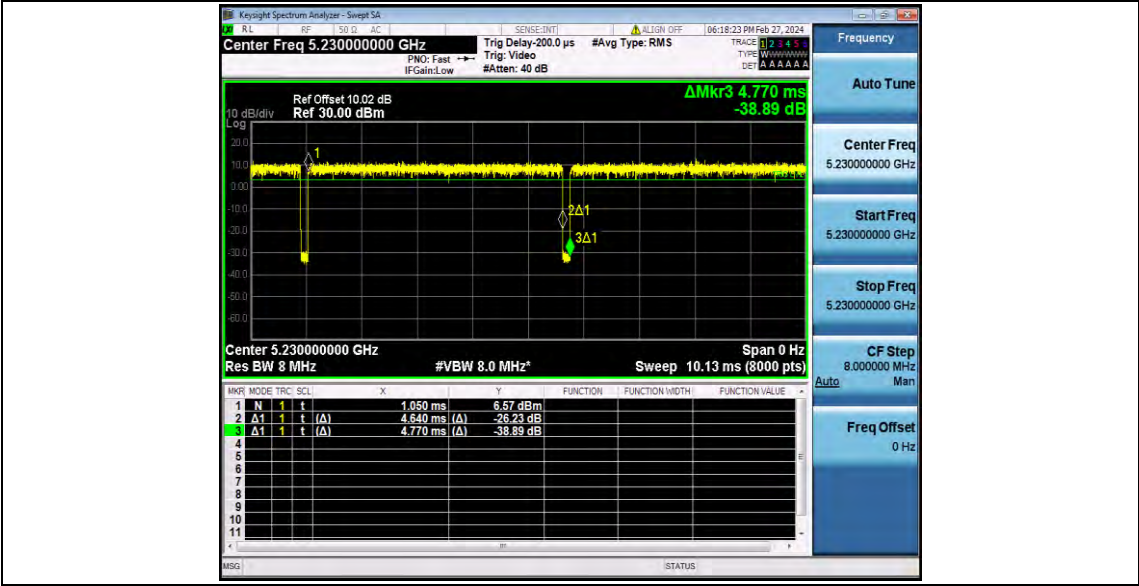
11AX20SISO_Ant1_5240



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	15.00	97.51	0.11	15.11	≤23.98	PASS
		5200	14.47	97.51	0.11	14.58	≤23.98	PASS
		5240	14.84	97.51	0.11	14.95	≤23.98	PASS
11N20SI SO	Ant1	5180	14.88	97.28	0.12	15.00	≤23.98	PASS
		5200	14.29	97.28	0.12	14.41	≤23.98	PASS
		5240	14.69	97.46	0.11	14.80	≤23.98	PASS
11N40SI SO	Ant1	5190	14.08	97.35	0.12	14.20	≤23.98	PASS
		5230	13.88	97.36	0.12	14.00	≤23.98	PASS
11AC20S ISO	Ant1	5180	14.82	97.11	0.13	14.95	≤23.98	PASS
		5200	14.31	97.29	0.12	14.43	≤23.98	PASS
		5240	14.74	97.29	0.12	14.86	≤23.98	PASS
11AC40S ISO	Ant1	5190	14.19	97.36	0.12	14.31	≤23.98	PASS
		5230	13.57	97.36	0.12	13.69	≤23.98	PASS
11AX20SI SO	Ant1	5180	14.96	96.88	0.14	15.10	≤23.98	PASS
		5200	14.18	96.88	0.14	14.32	≤23.98	PASS
		5240	14.56	97.08	0.13	14.69	≤23.98	PASS
11AX40SI SO	Ant1	5190	14.13	97.07	0.13	14.26	≤23.98	PASS
		5230	14.02	97.27	0.12	14.14	≤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	4.13	≤11.00	PASS
		5200	3.73	≤11.00	PASS
		5240	4.14	≤11.00	PASS
11N20SISO	Ant1	5180	3.89	≤11.00	PASS
		5200	3.36	≤11.00	PASS
		5240	3.92	≤11.00	PASS
11N40SISO	Ant1	5190	0.63	≤11.00	PASS
		5230	0.46	≤11.00	PASS
11AC20SISO	Ant1	5180	3.87	≤11.00	PASS
		5200	3.44	≤11.00	PASS
		5240	3.92	≤11.00	PASS
11AC40SISO	Ant1	5190	0.79	≤11.00	PASS
		5230	0.03	≤11.00	PASS
11AX20SISO	Ant1	5180	3.90	≤11.00	PASS
		5200	3.27	≤11.00	PASS
		5240	3.74	≤11.00	PASS
11AX40SISO	Ant1	5190	0.32	≤11.00	PASS
		5230	0.17	≤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



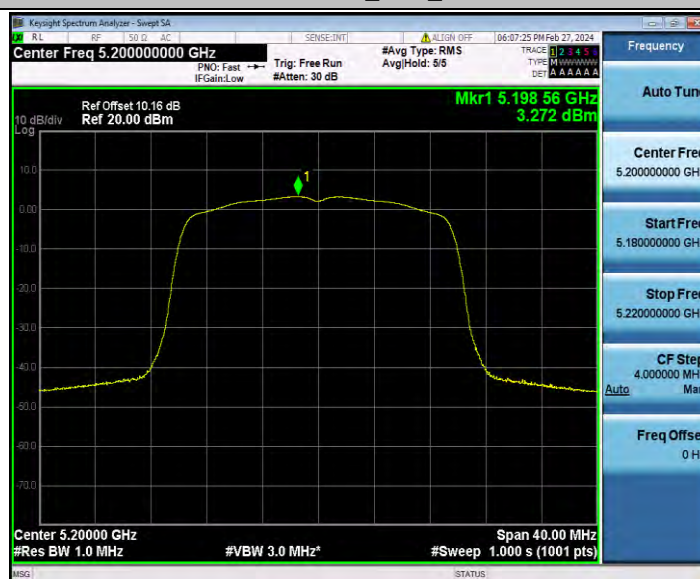
11AC40SISO_Ant1_5230



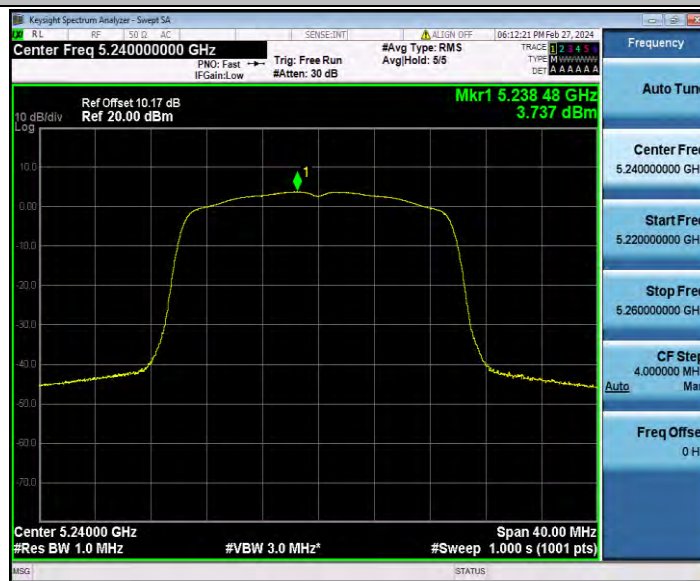
11AX20SISO_Ant1_5180



11AX20SISO_Ant1_5200



11AX20SISO_Ant1_5240



11AX40SISO_Ant1_5190



11AX40SISO_Ant1_5230

