

Case No. : <u>GTS20231208004-1-17</u>	
Ambient Condition: <u>23</u> °C, <u>48</u> %RH	
According Standard: <u>■Part15E</u>	
Test Date: <u>2024.1.3</u>	Test Engineer: <u>Evan ouyang</u>

Appendix D.1: Emission Bandwidth

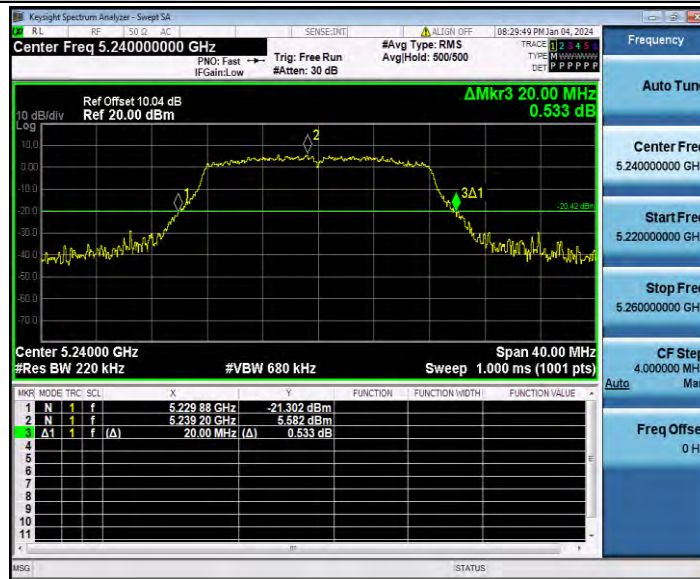
Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	19.920	5170.040	5189.960	---	---
		5200	20.160	5189.800	5209.960	---	---
		5240	20.000	5229.880	5249.880	---	---
11N20SISO	Ant1	5180	20.440	5169.680	5190.120	---	---
		5200	20.400	5189.800	5210.200	---	---
		5240	20.400	5229.720	5250.120	---	---
11N40SISO	Ant1	5190	39.680	5170.080	5209.760	---	---
		5230	39.440	5210.160	5249.600	---	---
11AC20SISO	Ant1	5180	20.400	5169.720	5190.120	---	---
		5200	20.560	5189.720	5210.280	---	---
		5240	20.520	5229.640	5250.160	---	---
11AC40SISO	Ant1	5190	39.360	5170.320	5209.680	---	---
		5230	39.360	5210.320	5249.680	---	---
11AC80SISO	Ant1	5210	96.800	5165.040	5261.840	---	---
11AX20SISO	Ant1	5180	21.080	5169.440	5190.520	---	---
		5200	20.920	5189.480	5210.400	---	---
		5240	20.840	5229.560	5250.400	---	---
11AX40SISO	Ant1	5190	40.000	5170.000	5210.000	---	---
		5230	40.240	5209.760	5250.000	---	---
11AX80SISO	Ant1	5210	83.040	5168.560	5251.600	---	---

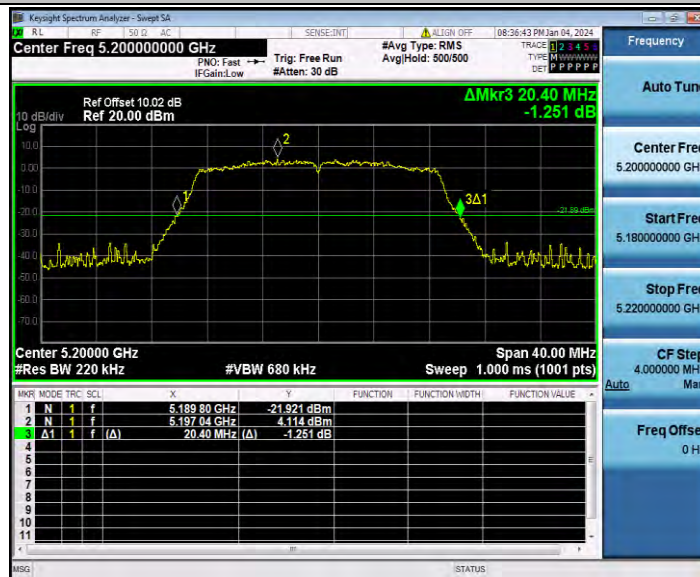
Test Graphs



11A_Ant1_5240



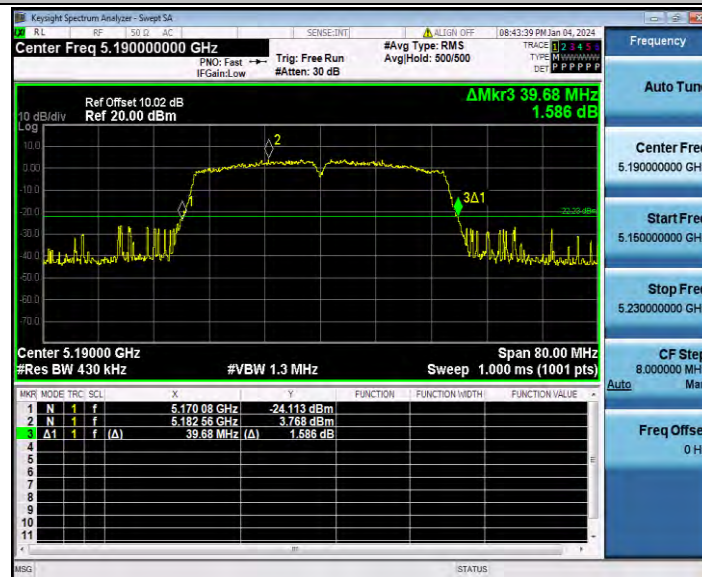
11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



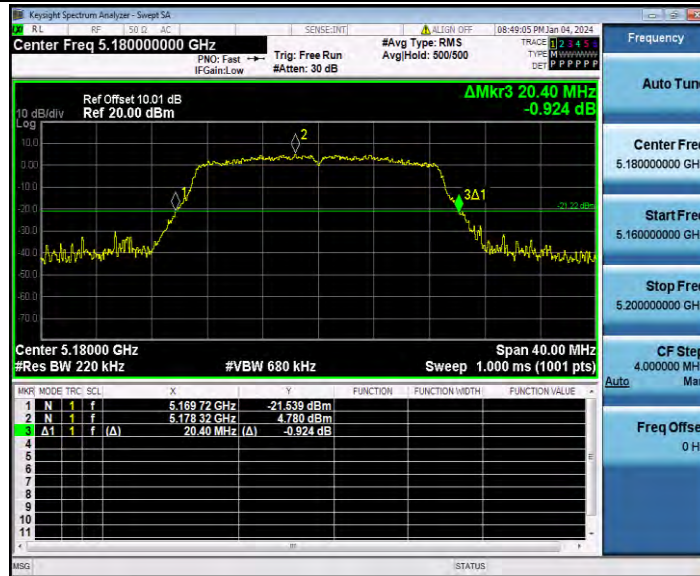
11N40SISO_Ant1_5190



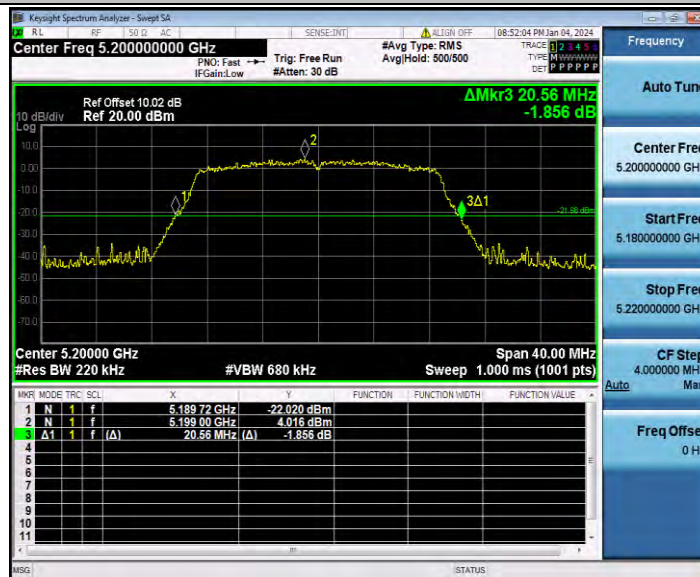
11N40SISO_Ant1_5230



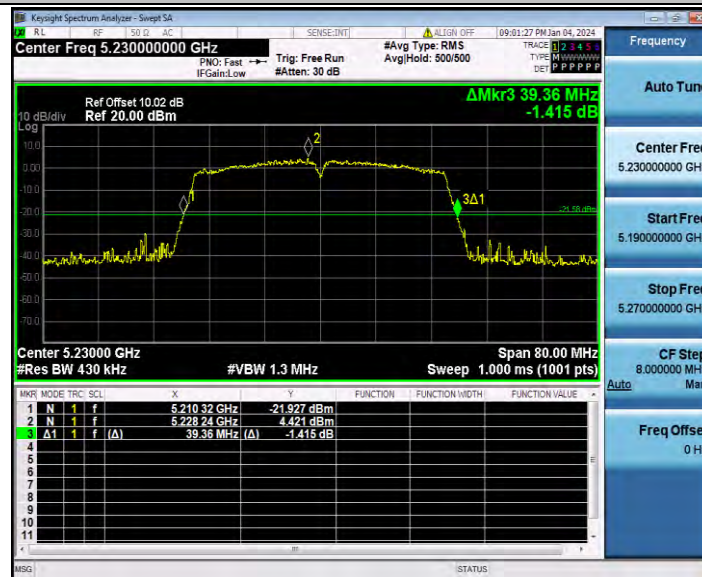
11AC20SISO_Ant1_5180



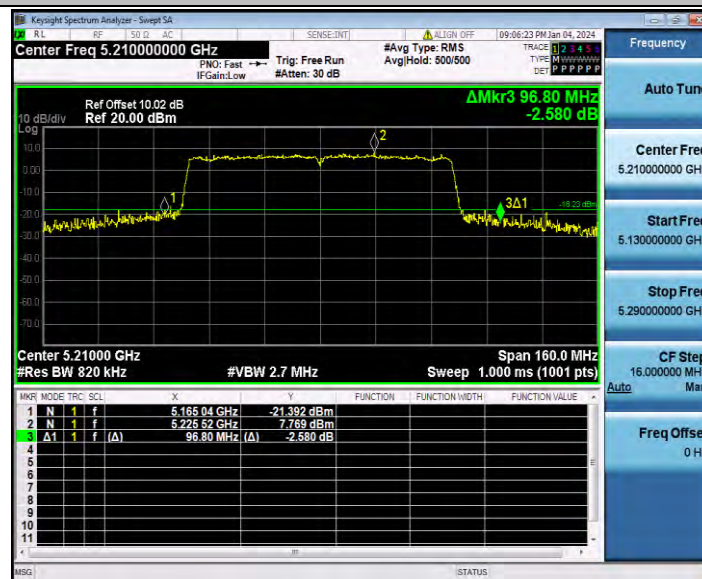
11AC20SISO_Ant1_5200



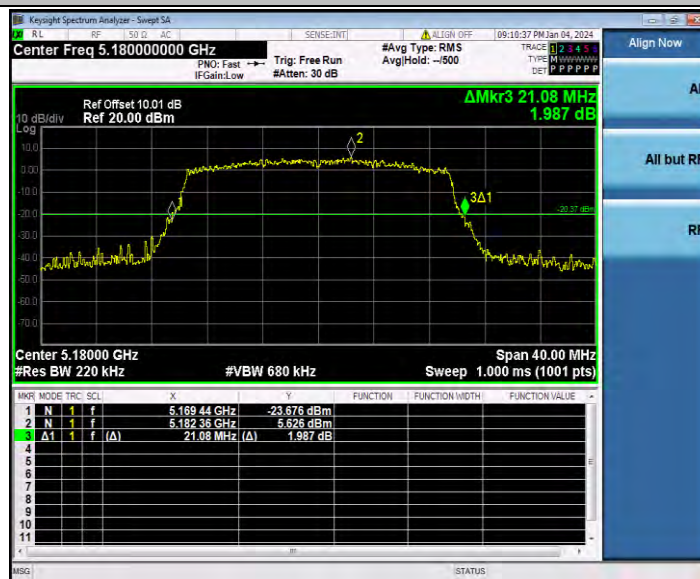
11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



11AX20SISO_Ant1_5180



11AX20SISO_Ant1_5200



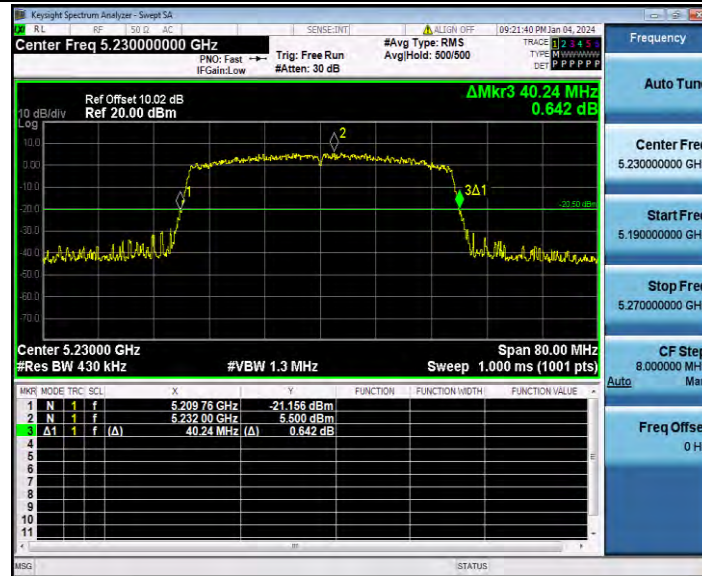
11AX20SISO_Ant1_5240



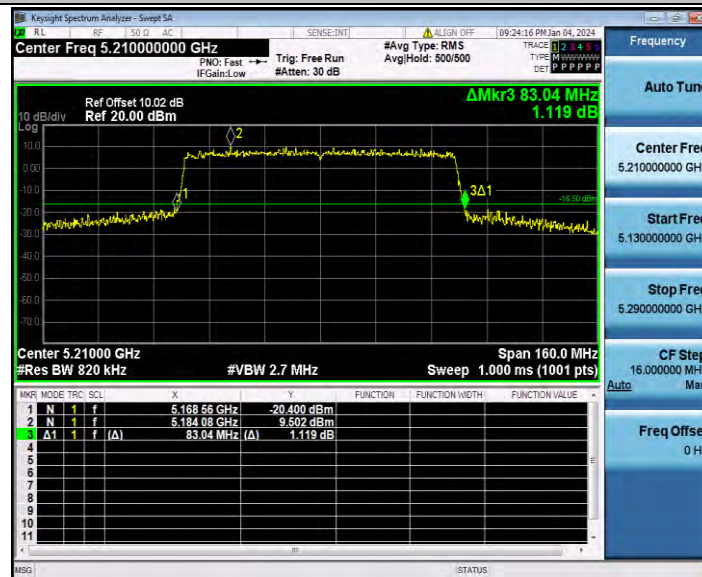
11AX40SISO_Ant1_5190



11AX40SISO_Ant1_5230



11AX80SISO_Ant1_5210



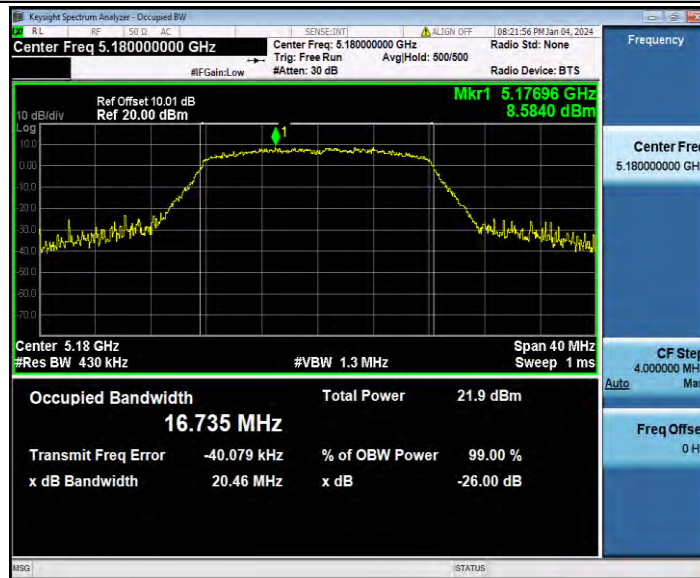
Appendix D.2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.735	5171.5924	5188.3274	---	---
		5200	16.769	5191.6032	5208.3722	---	---
		5240	16.726	5231.6042	5248.3302	---	---
11N20SISO	Ant1	5180	17.720	5171.1138	5188.8338	---	---
		5200	17.771	5191.0681	5208.8391	---	---
		5240	17.709	5231.1062	5248.8152	---	---
11N40SISO	Ant1	5190	35.941	5171.9983	5207.9393	---	---
		5230	35.869	5211.9836	5247.8526	---	---
11AC20SISO	Ant1	5180	17.698	5171.1396	5188.8376	---	---
		5200	17.705	5191.1159	5208.8209	---	---
		5240	17.718	5231.1022	5248.8202	---	---
11AC40SISO	Ant1	5190	35.868	5172.0251	5207.8931	---	---
		5230	35.938	5212.0053	5247.9433	---	---
11AC80SISO	Ant1	5210	75.638	5172.2011	5247.8391	---	---
11AX20SISO	Ant1	5180	18.760	5170.6077	5189.3677	---	---
		5200	18.770	5190.6082	5209.3782	---	---
		5240	18.795	5230.5569	5249.3519	---	---
11AX40SISO	Ant1	5190	37.259	5171.3472	5208.6062	---	---
		5230	37.284	5211.3643	5248.6483	---	---
11AX80SISO	Ant1	5210	77.648	5171.2185	5248.8665	---	---

Test Graphs

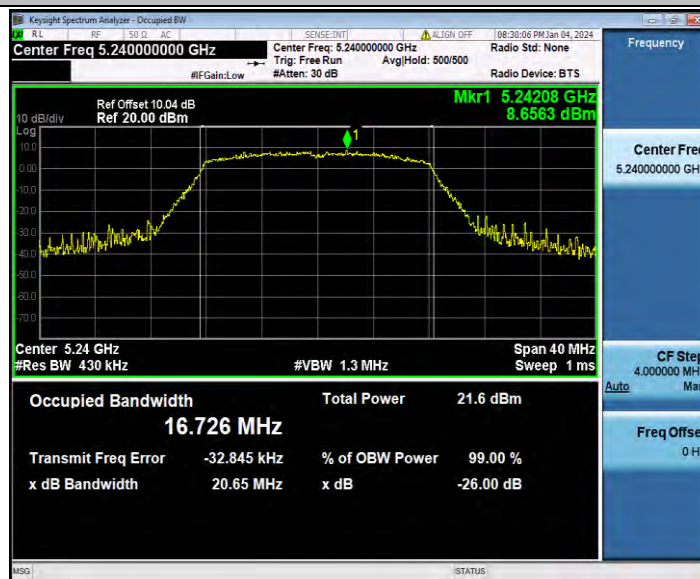
11A_Ant1_5180



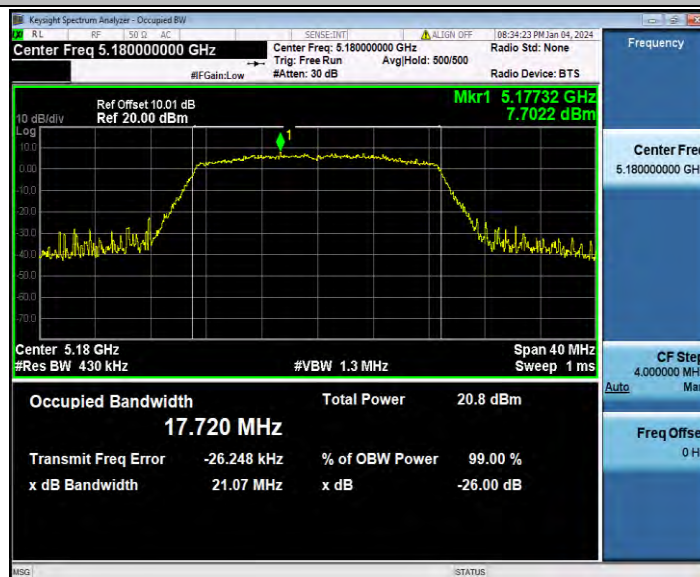
11A_Ant1_5200



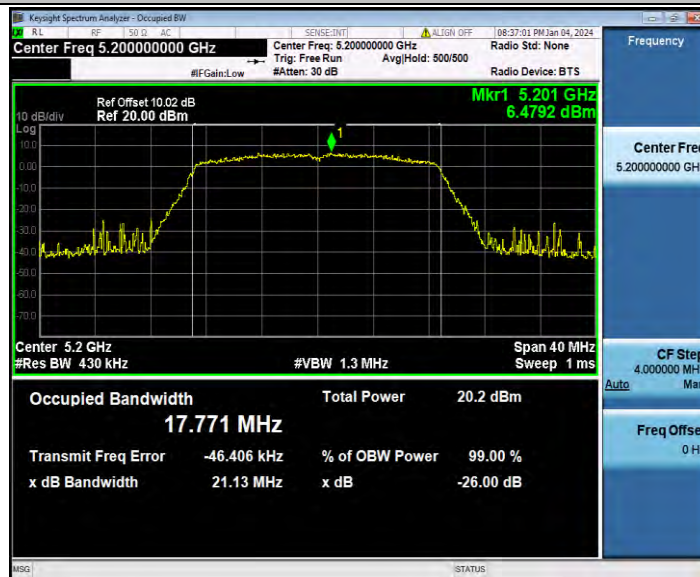
11A_Ant1_5240



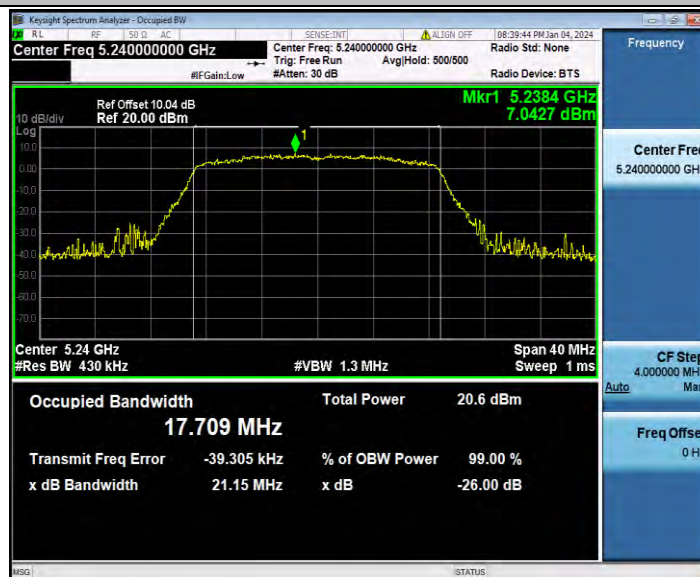
11N20SISO_Ant1_5180



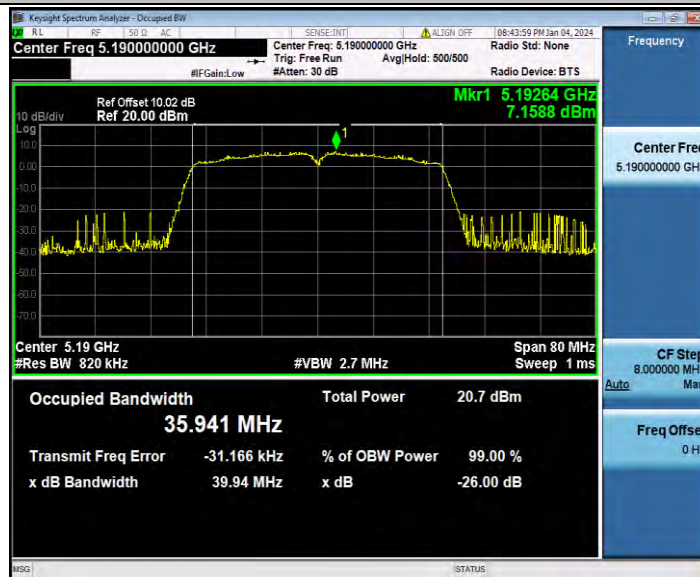
11N20SISO_Ant1_5200



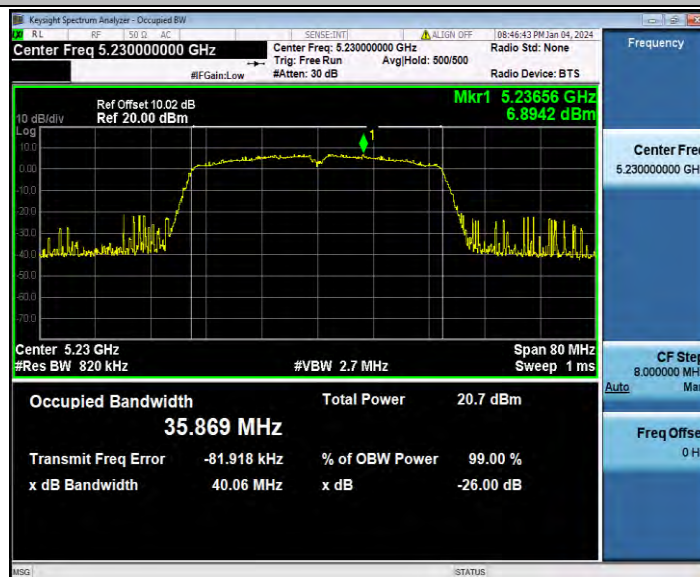
11N20SISO_Ant1_5240



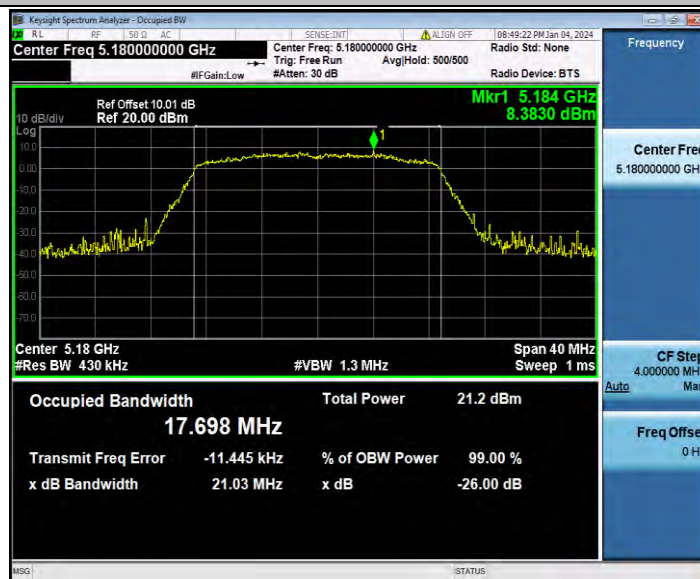
11N40SISO_Ant1_5190



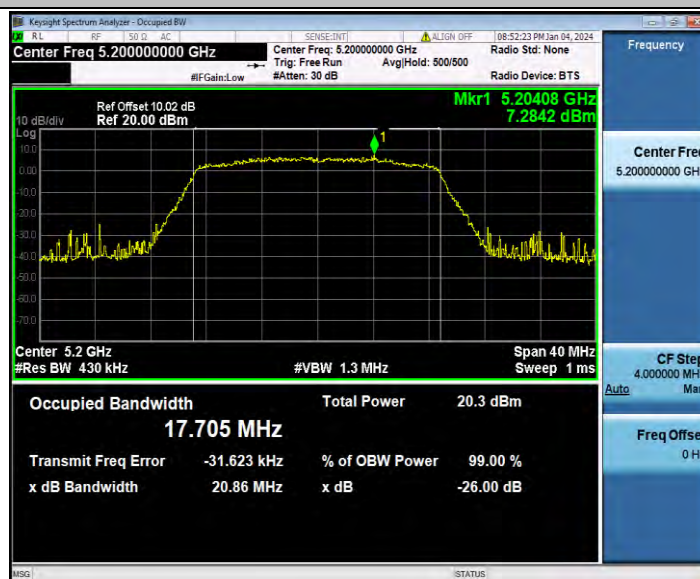
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



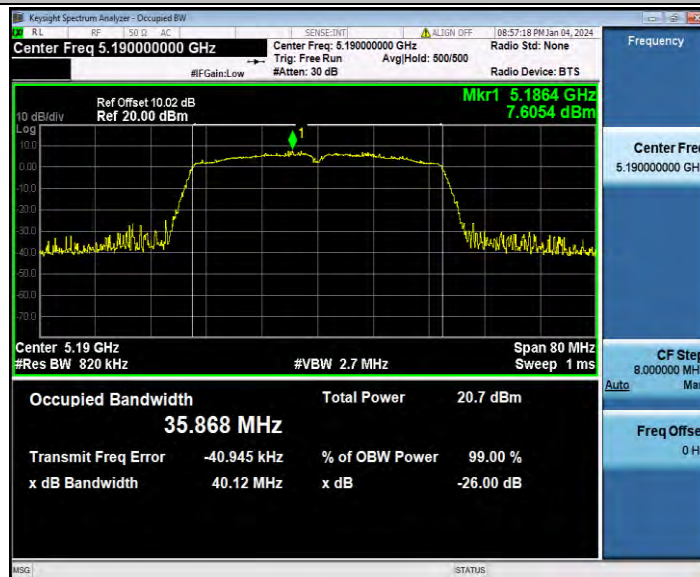
11AC20SISO_Ant1_5200



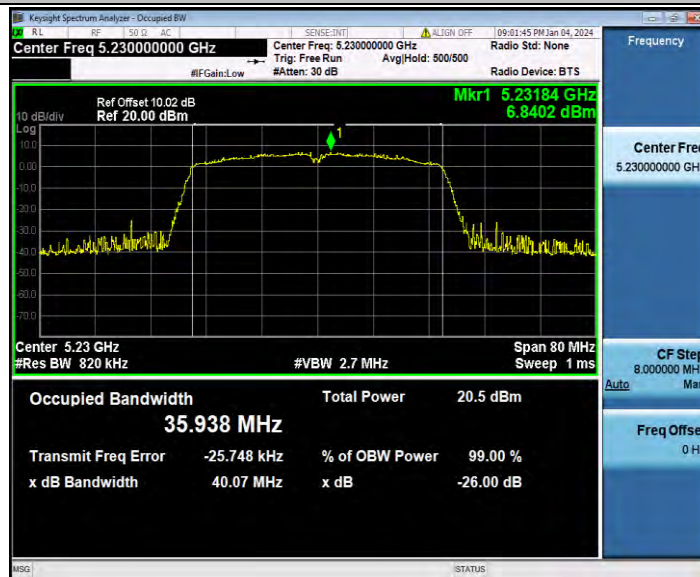
11AC20SISO_Ant1_5240



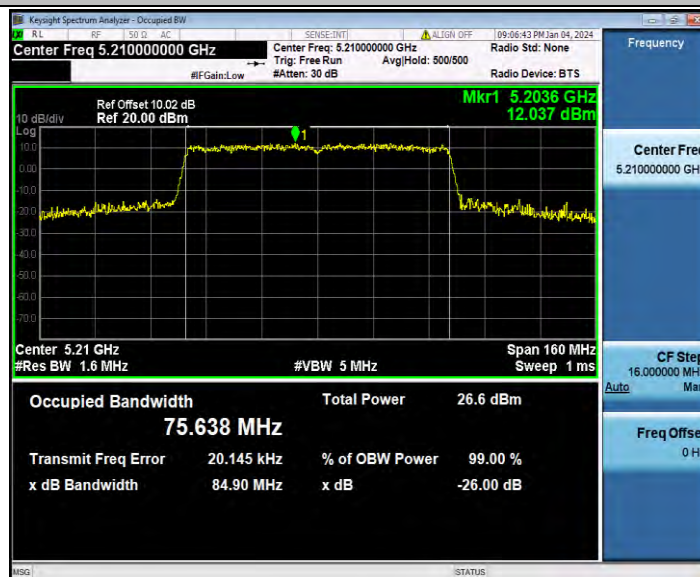
11AC40SISO_Ant1_5190



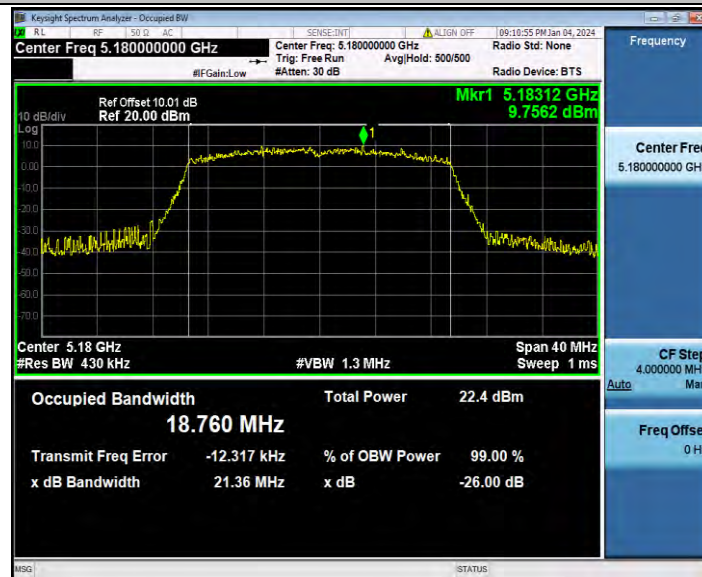
11AC40SISO_Ant1_5230



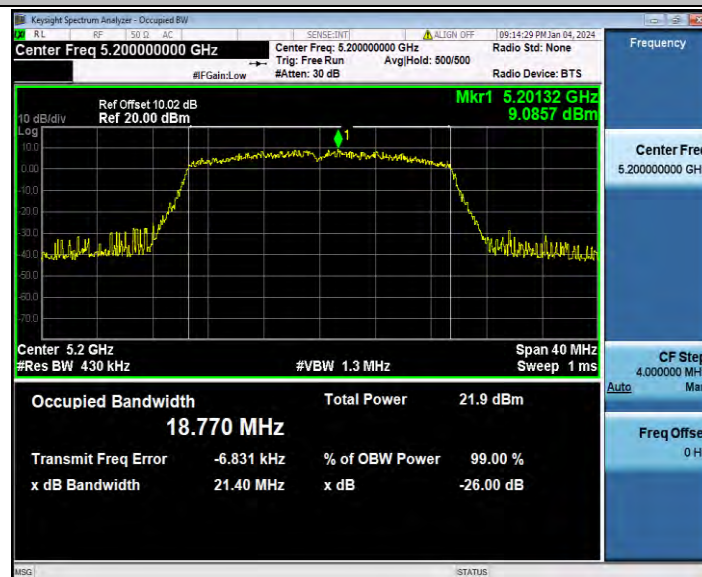
11AC80SISO_Ant1_5210



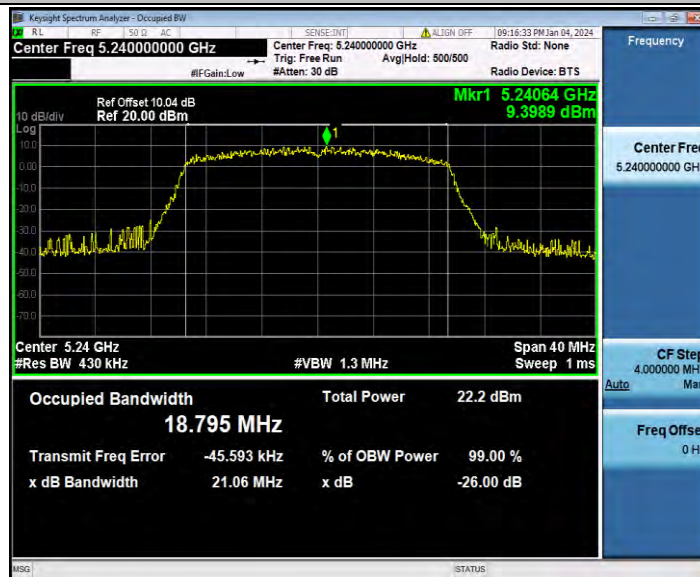
11AX20SISO_Ant1_5180



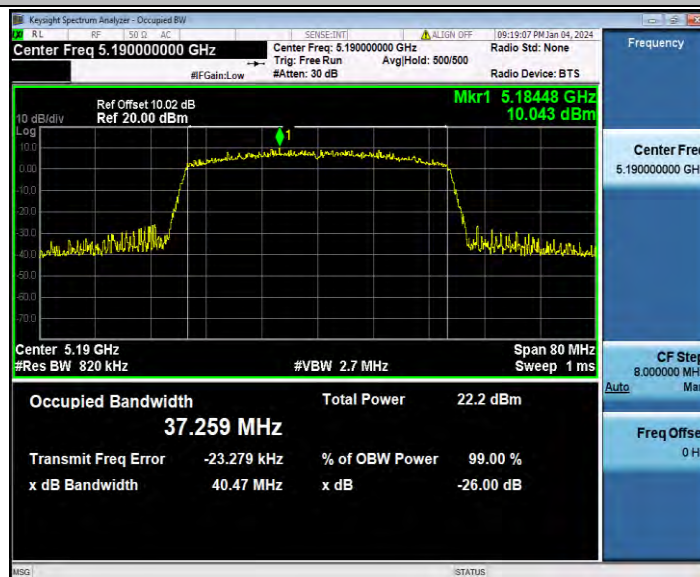
11AX20SISO_Ant1_5200



11AX20SISO_Ant1_5240



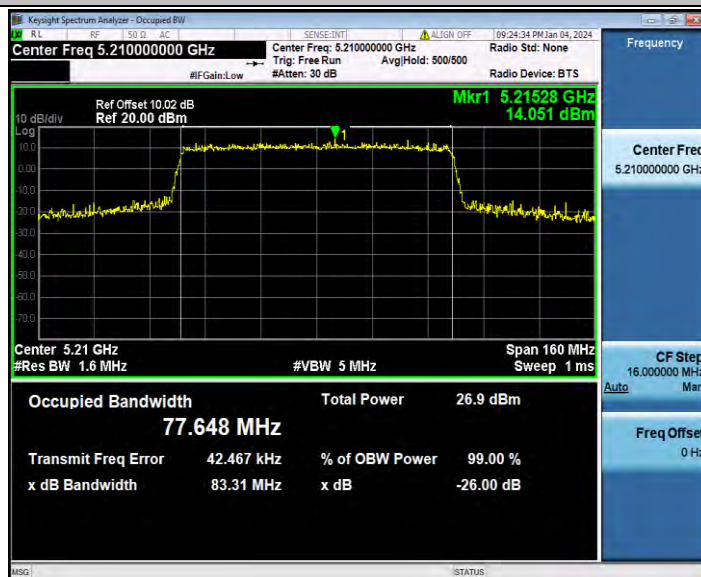
11AX40SISO_Ant1_5190



11AX40SISO_Ant1_5230



11AX80SISO_Ant1_5210



Appendix D.3: Duty Cycle

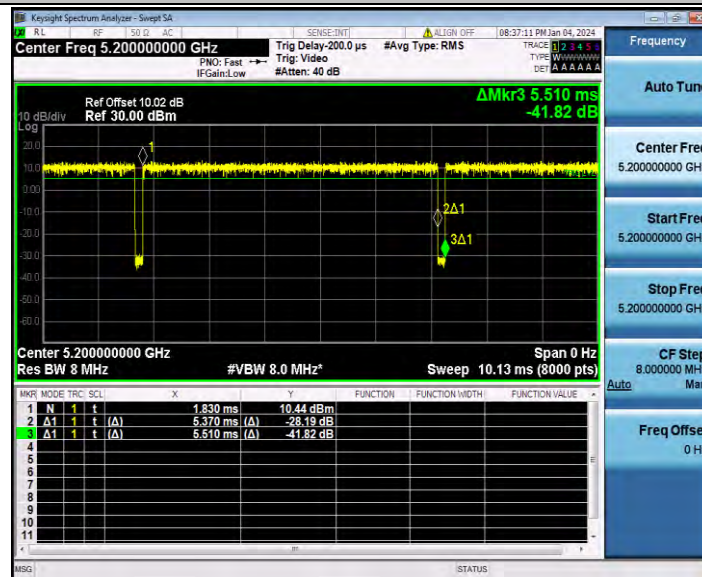
Test Result

TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant1	5180	5.48	5.62	97.51	---	---
		5200	5.49	5.63	97.51	---	---
		5240	5.49	5.64	97.34	---	---
11N20SISO	Ant1	5180	5.37	5.53	97.11	---	---
		5200	5.37	5.51	97.46	---	---
		5240	5.37	5.51	97.46	---	---
11N40SISO	Ant1	5190	5.16	5.29	97.54	---	---
		5230	5.15	5.29	97.35	---	---
11AC20SISO	Ant1	5180	5.38	5.53	97.29	---	---
		5200	5.38	5.52	97.46	---	---
		5240	5.37	5.52	97.28	---	---
11AC40SISO	Ant1	5190	5.16	5.32	96.99	---	---
		5230	5.16	5.29	97.54	---	---
11AC80SISO	Ant1	5210	4.75	10.34	45.94	---	---
11AX20SISO	Ant1	5180	4.65	4.80	96.88	---	---
		5200	4.65	4.81	96.67	---	---
		5240	4.65	4.78	97.28	---	---
11AX40SISO	Ant1	5190	4.64	4.77	97.27	---	---
		5230	4.64	4.78	97.07	---	---
11AX80SISO	Ant1	5210	4.43	10.34	42.84	---	---

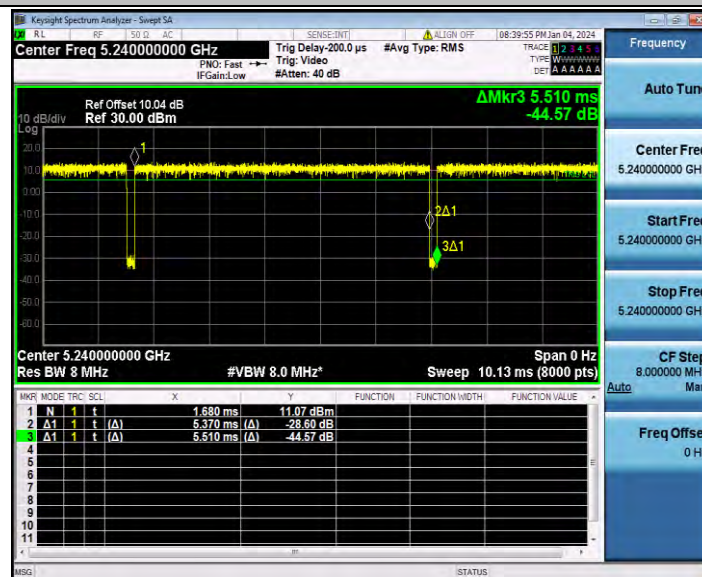
Test Graphs



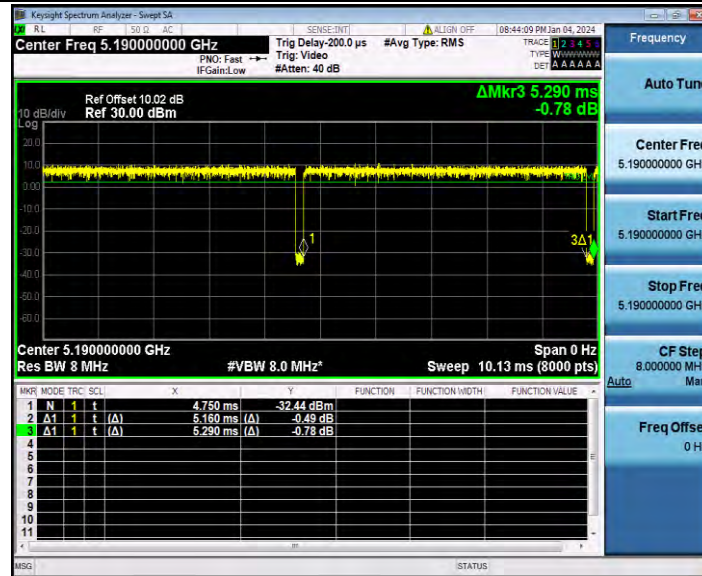
11N20SISO_Ant1_5200



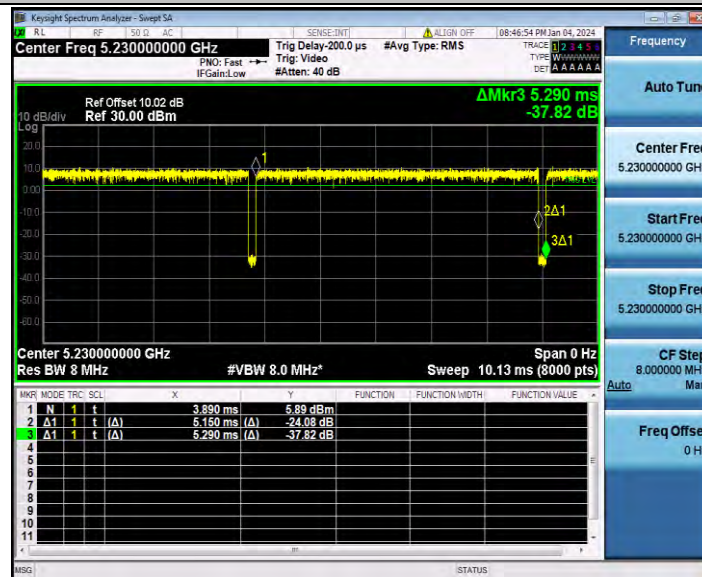
11N20SISO_Ant1_5240

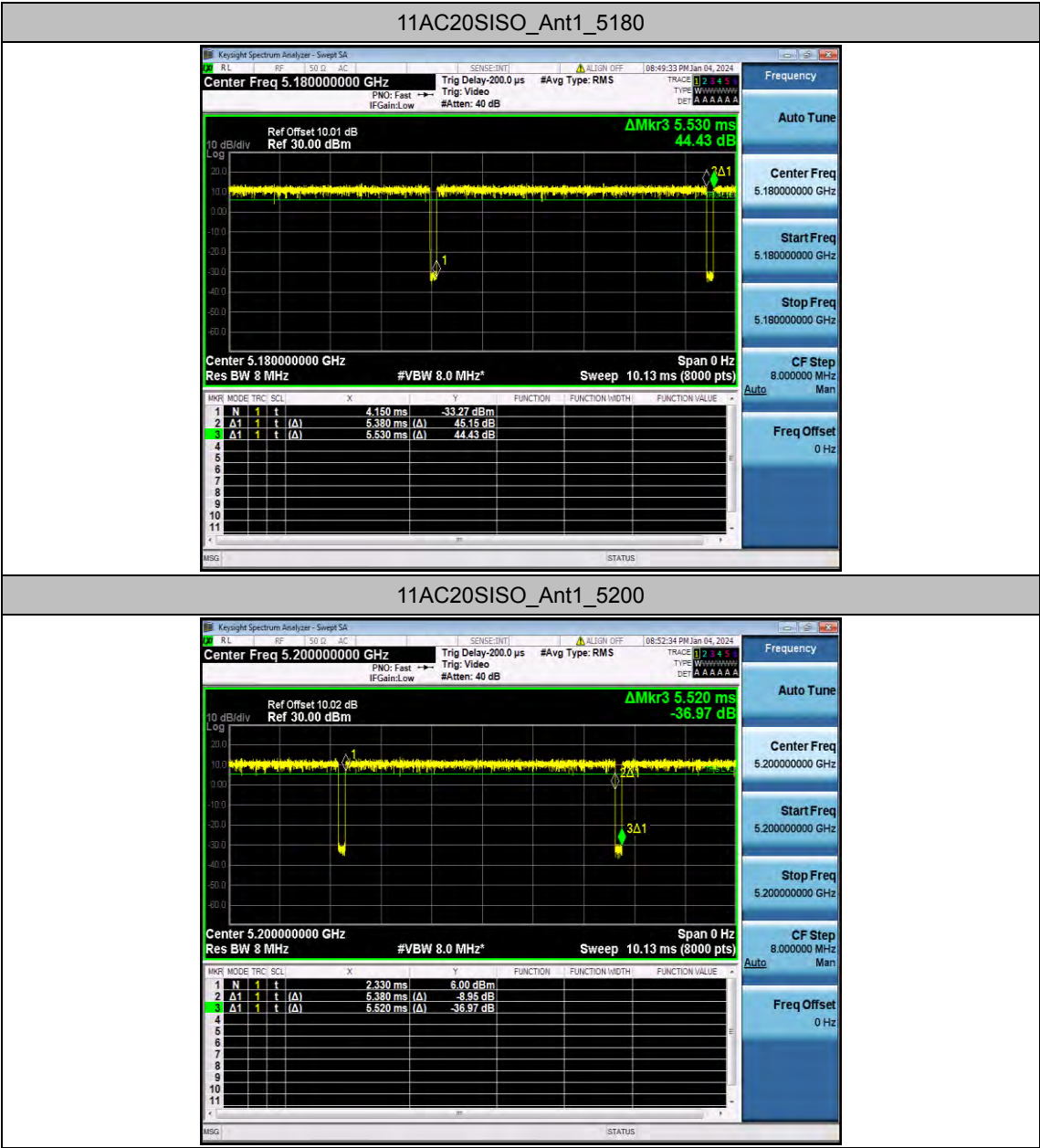


11N40SISO_Ant1_5190

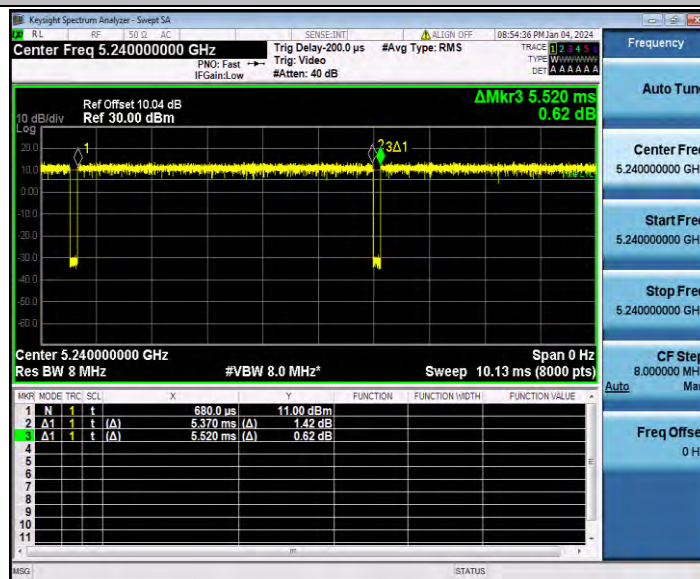


11N40SISO_Ant1_5230

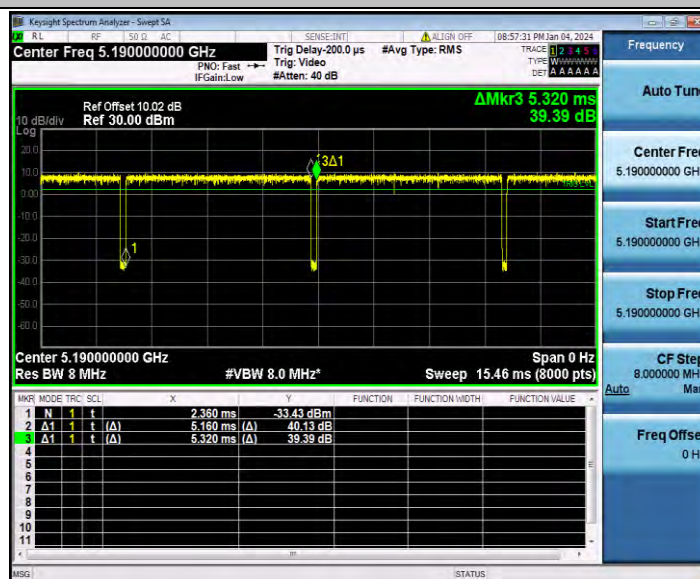




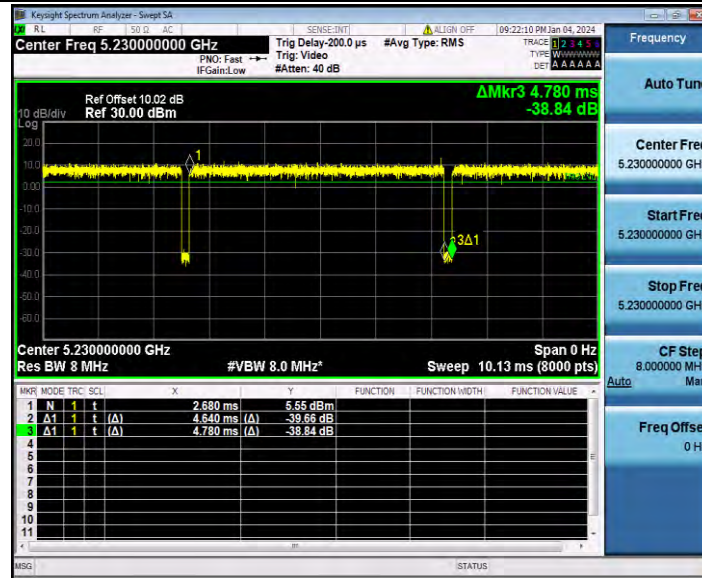
11AC20SISO_Ant1_5240



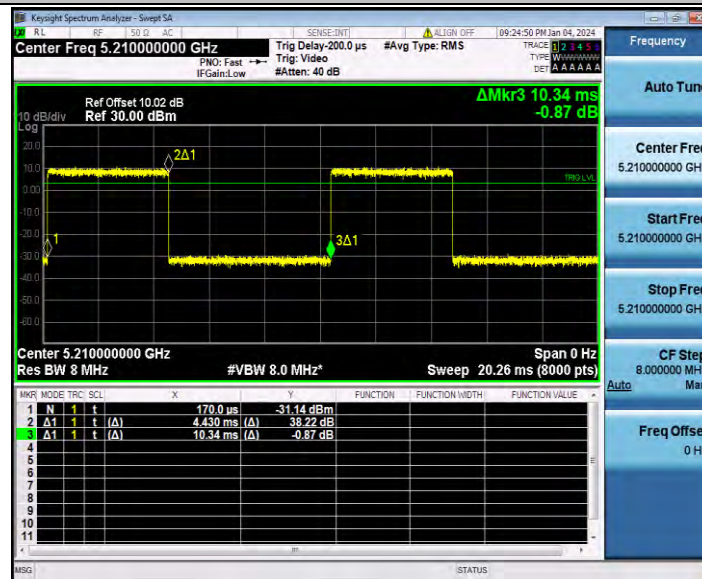
11AC40SISO_Ant1_5190



11AX40SISO_Ant1_5230



11AX80SISO_Ant1_5210



Appendix D.4: Maximum conducted output power

Test Result

Test Mode	Antenna	Freq(M Hz)	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	14.97	97.51	0.11	15.08	≤23.98	PASS
		5200	14.23	97.51	0.11	14.34	≤23.98	PASS
		5240	14.72	97.34	0.12	14.84	≤23.98	PASS
11N20S ISO	Ant1	5180	13.85	97.11	0.13	13.98	≤23.98	PASS
		5200	13.23	97.46	0.11	13.34	≤23.98	PASS
		5240	13.65	97.46	0.11	13.76	≤23.98	PASS
11N40S ISO	Ant1	5190	13.20	97.54	0.11	13.31	≤23.98	PASS
		5230	13.13	97.35	0.12	13.25	≤23.98	PASS
11AC20 SISO	Ant1	5180	14.21	97.29	0.12	14.33	≤23.98	PASS
		5200	13.42	97.46	0.11	13.53	≤23.98	PASS
		5240	13.81	97.28	0.12	13.93	≤23.98	PASS
11AC40 SISO	Ant1	5190	13.23	96.99	0.13	13.36	≤23.98	PASS
		5230	13.08	97.54	0.11	13.19	≤23.98	PASS
11AC80 SISO	Ant1	5210	14.67	45.94	3.38	18.05	≤23.98	PASS
11AX20 SISO	Ant1	5180	14.04	96.88	0.14	14.18	≤23.98	PASS
		5200	13.26	96.67	0.15	13.41	≤23.98	PASS
		5240	13.68	97.28	0.12	13.80	≤23.98	PASS
11AX40 SISO	Ant1	5190	13.35	97.27	0.12	13.47	≤23.98	PASS
		5230	13.21	97.07	0.13	13.34	≤23.98	PASS
11AX80 SISO	Ant1	5210	14.32	42.84	3.68	18.00	≤23.98	PASS

Note: The Duty Cycle Factor is compensated in the graph.

Appendix D.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	4.25	≤11.00	PASS
		5200	3.49	≤11.00	PASS
		5240	4.13	≤11.00	PASS
11N20SISO	Ant1	5180	2.99	≤11.00	PASS
		5200	2.30	≤11.00	PASS
		5240	2.83	≤11.00	PASS
11N40SISO	Ant1	5190	-0.24	≤11.00	PASS
		5230	-0.23	≤11.00	PASS
11AC20SISO	Ant1	5180	3.19	≤11.00	PASS
		5200	2.41	≤11.00	PASS
		5240	2.95	≤11.00	PASS
11AC40SISO	Ant1	5190	-0.23	≤11.00	PASS
		5230	-0.33	≤11.00	PASS
11AC80SISO	Ant1	5210	3.79	≤11.00	PASS
11AX20SISO	Ant1	5180	3.03	≤11.00	PASS
		5200	2.30	≤11.00	PASS
		5240	2.78	≤11.00	PASS
11AX40SISO	Ant1	5190	-0.54	≤11.00	PASS
		5230	-0.54	≤11.00	PASS
11AX80SISO	Ant1	5210	3.90	≤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_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



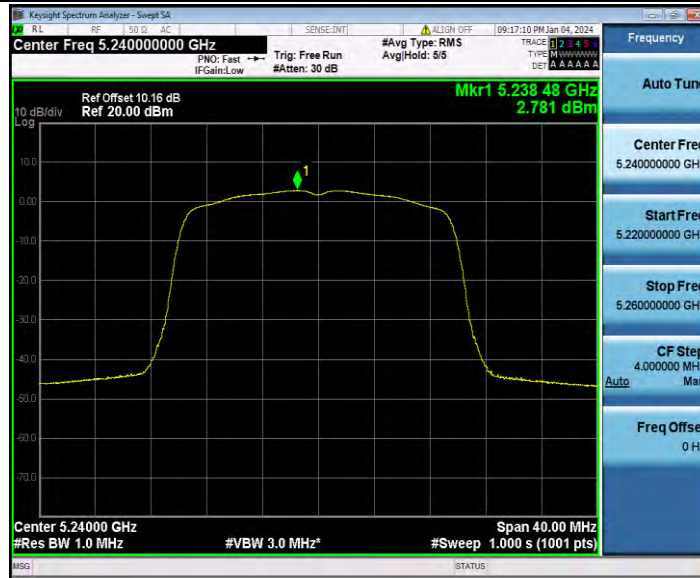
11AX20SISO_Ant1_5180



11AX20SISO_Ant1_5200



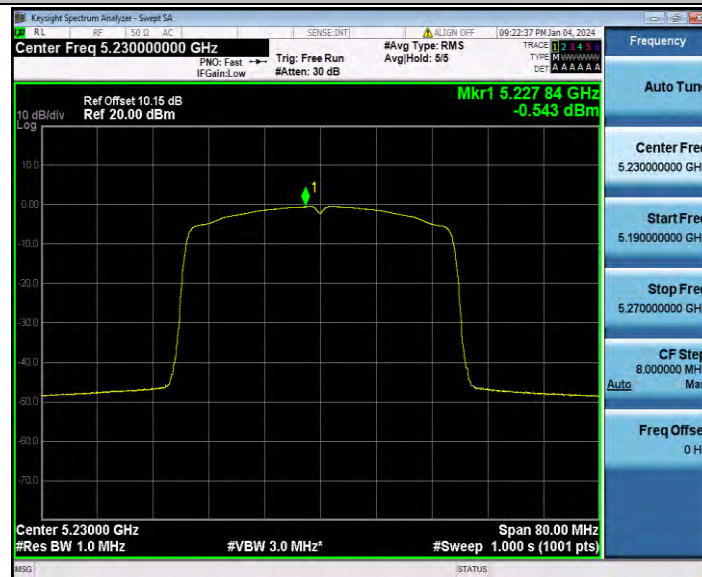
11AX20SISO_Ant1_5240



11AX40SISO_Ant1_5190



11AX40SISO_Ant1_5230



11AX80SISO_Ant1_5210

