

Case No. : <u>GTS20241121026-1-04</u>	
Ambient Condition: <u>22</u> °C, <u>59</u> %RH	
According Standard: <u>■Part15E</u>	
Test Date: <u>2024.11.29</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	19.880	5170.120	5190.000	---	---
		5200	19.880	5190.080	5209.960	---	---
		5240	20.160	5229.960	5250.120	---	---
11N20SISO	Ant1	5180	20.080	5170.040	5190.120	---	---
		5200	20.320	5189.800	5210.120	---	---
		5240	20.080	5229.960	5250.040	---	---
11N40SISO	Ant1	5190	40.320	5169.760	5210.080	---	---
		5230	40.800	5209.680	5250.480	---	---
11AC20SISO	Ant1	5180	20.240	5169.920	5190.160	---	---
		5200	20.320	5189.880	5210.200	---	---
		5240	20.240	5229.880	5250.120	---	---
11AC40SISO	Ant1	5190	40.400	5169.840	5210.240	---	---
		5230	40.640	5209.840	5250.480	---	---
11AC80SISO	Ant1	5210	81.280	5169.520	5250.800	---	---

Test Graphs





11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



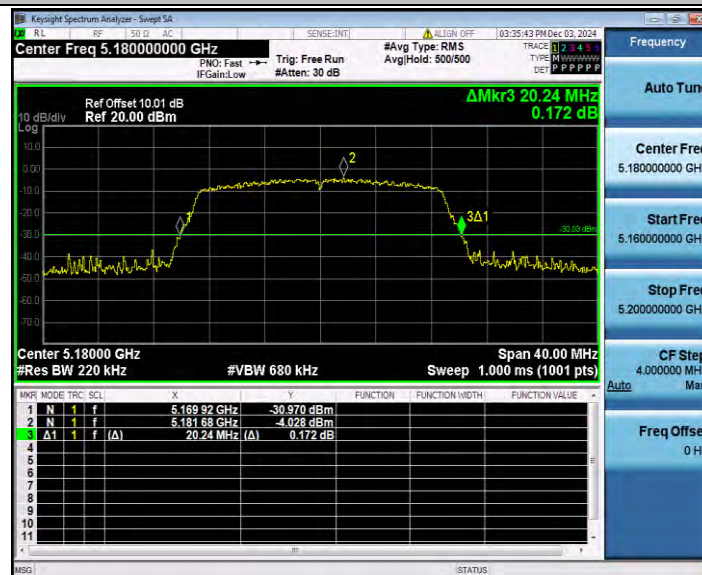
11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



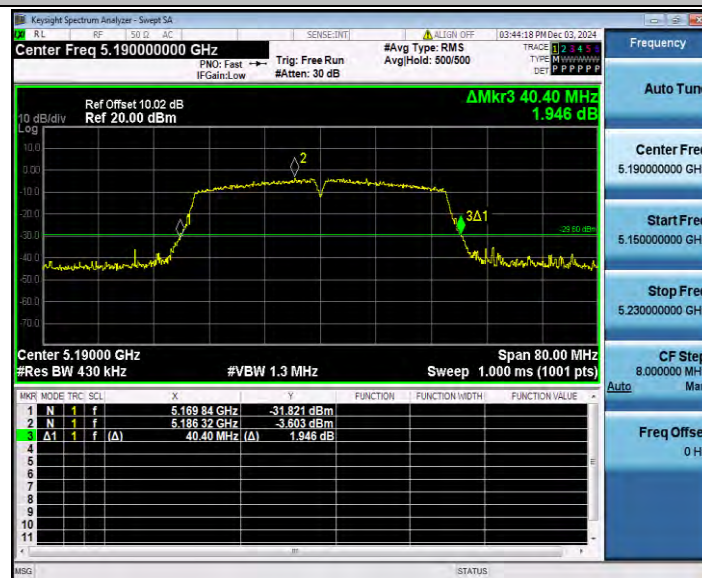
11AC20SISO_Ant1_5200



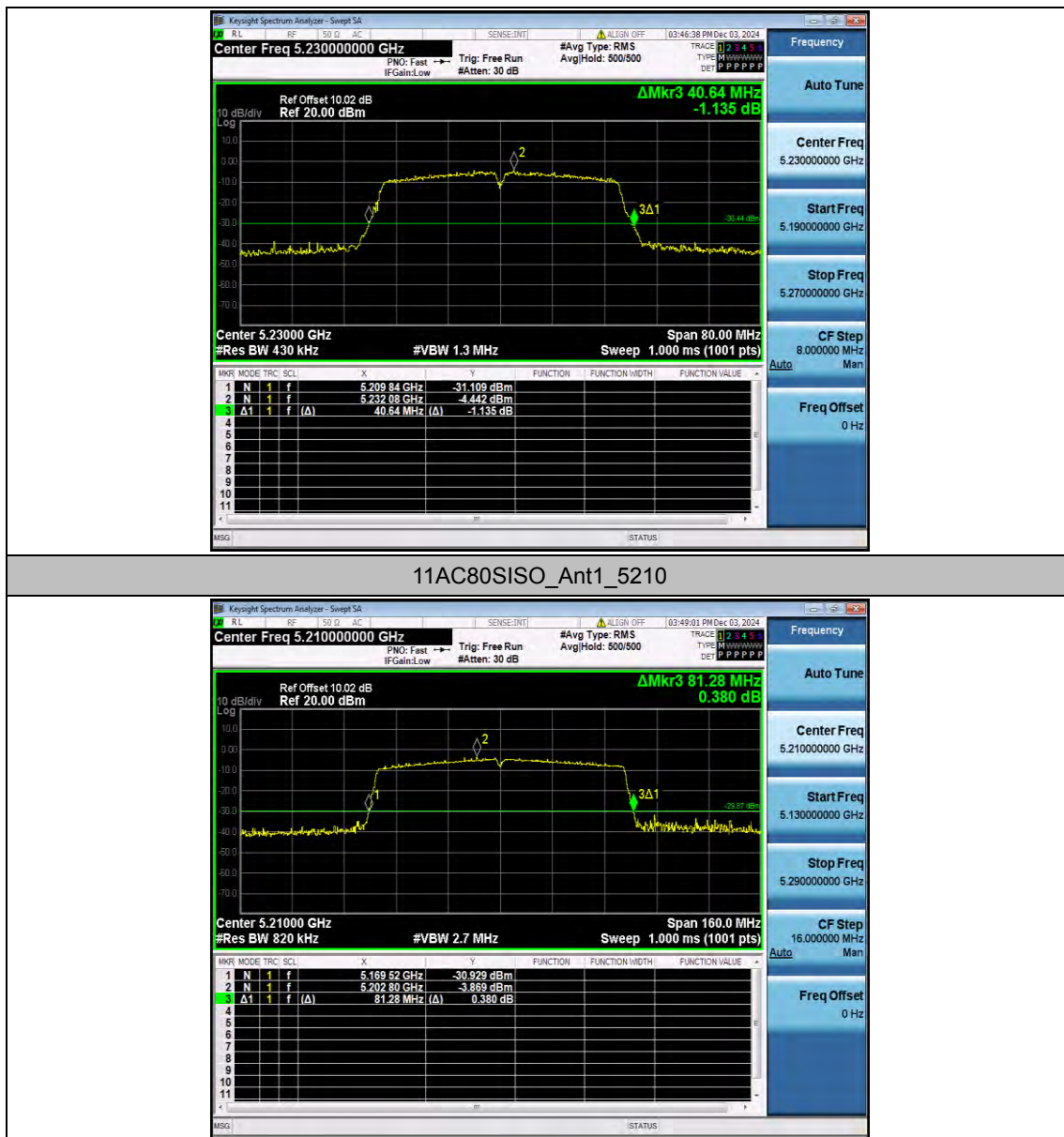
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



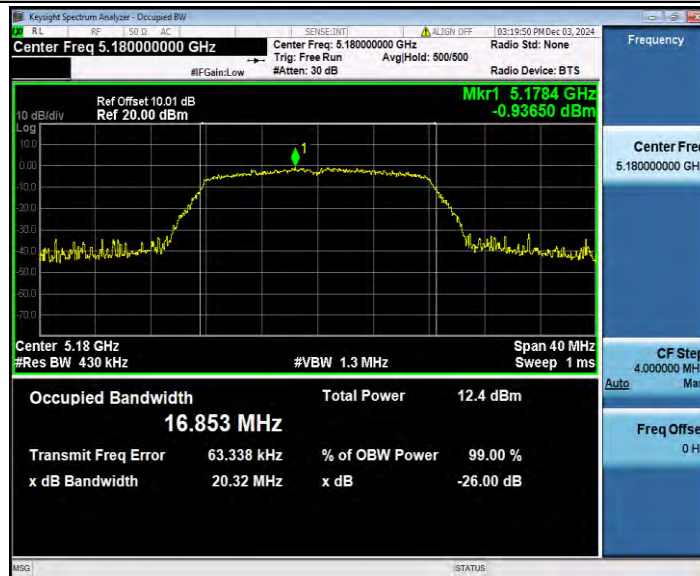
Appendix D.2: Occupied channel bandwidth

Test Result

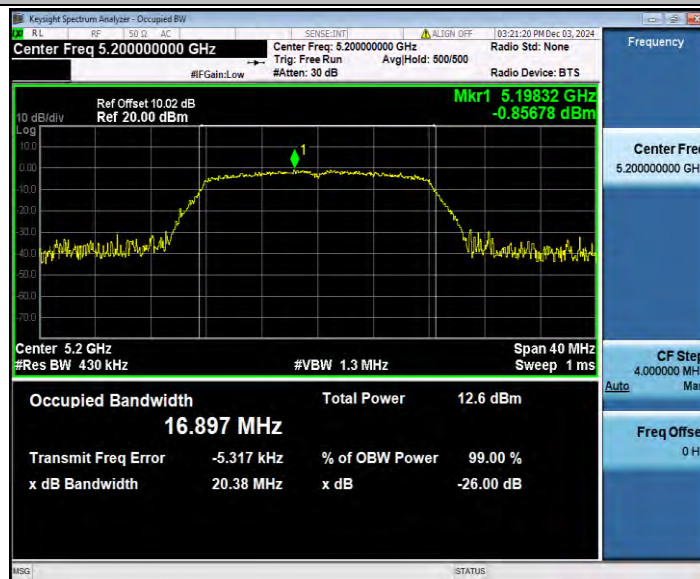
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.853	5171.6368	5188.4898	---	---
		5200	16.897	5191.5462	5208.4432	---	---
		5240	16.925	5231.5417	5248.4667	---	---
11N20SISO	Ant1	5180	17.848	5171.1015	5188.9495	---	---
		5200	17.820	5191.0833	5208.9033	---	---
		5240	17.858	5231.0424	5248.9004	---	---
11N40SISO	Ant1	5190	36.278	5171.9152	5208.1932	---	---
		5230	36.328	5211.8479	5248.1759	---	---
11AC20SISO	Ant1	5180	17.850	5171.0818	5188.9318	---	---
		5200	17.890	5191.0289	5208.9189	---	---
		5240	17.839	5231.0873	5248.9263	---	---
11AC40SISO	Ant1	5190	36.245	5171.9314	5208.1764	---	---
		5230	36.338	5211.8581	5248.1961	---	---
11AC80SISO	Ant1	5210	75.221	5172.5589	5247.7799	---	---

Test Graphs

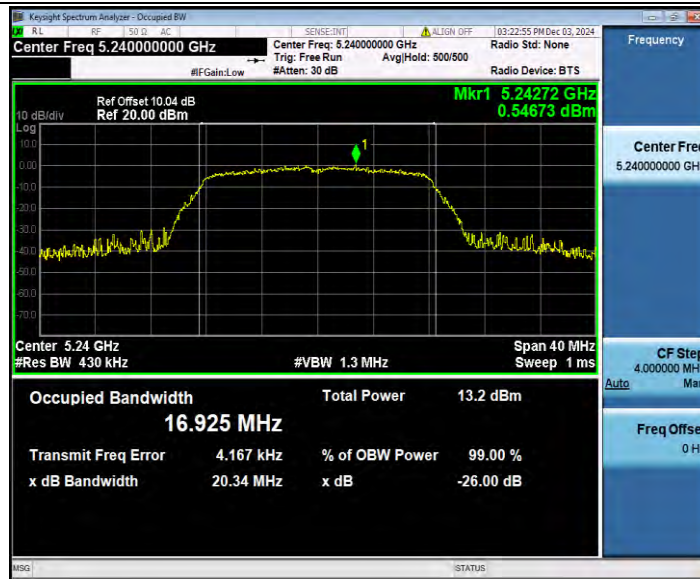
11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240



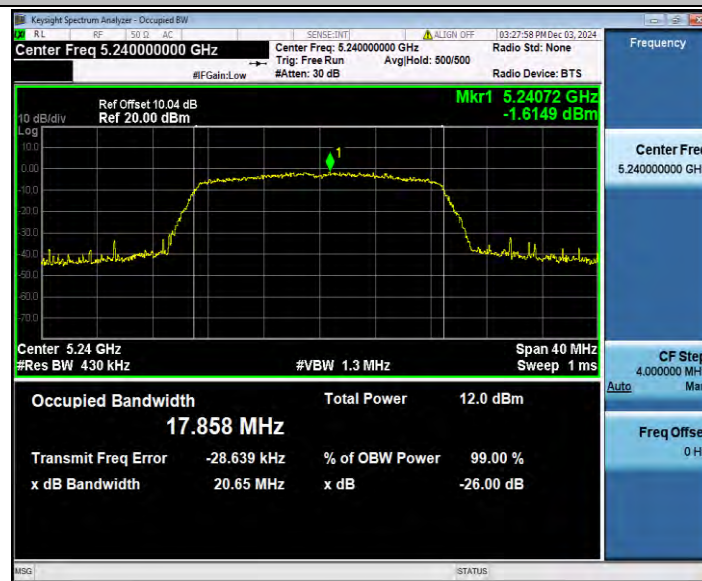
11N20SISO_Ant1_5180



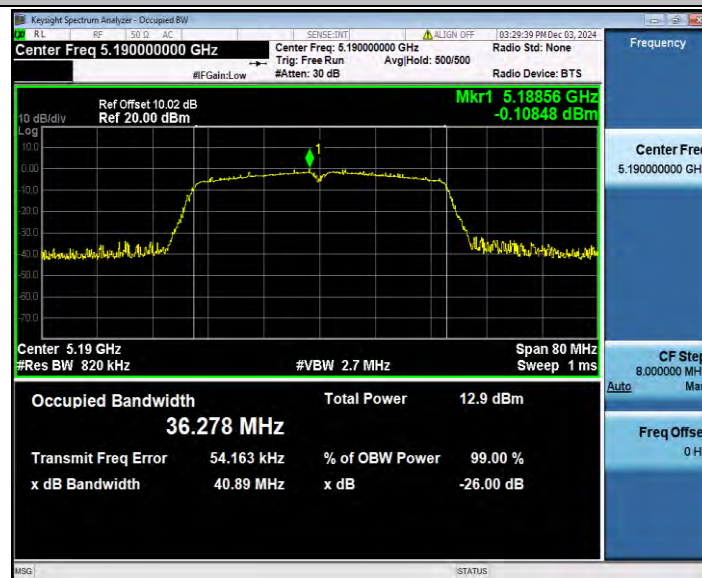
11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



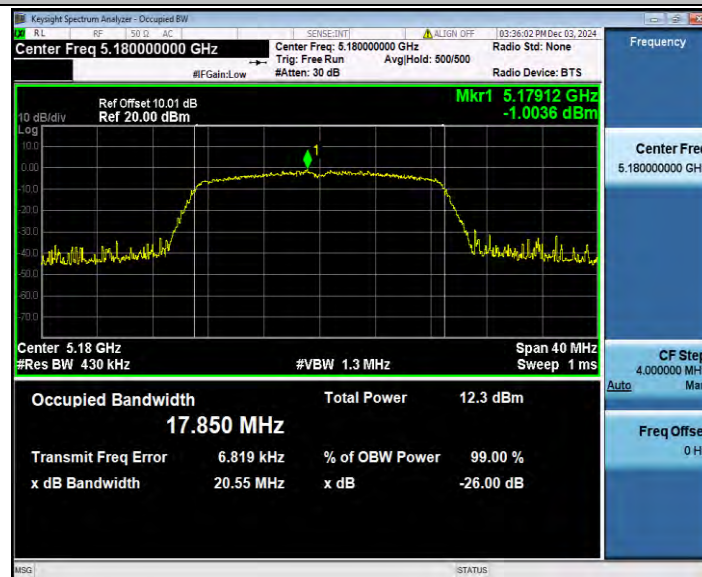
11N40SISO_Ant1_5190



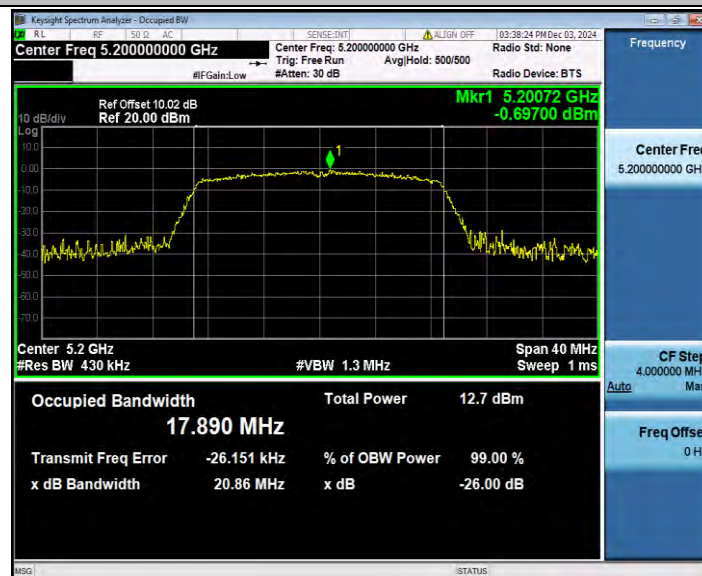
11N40SISO_Ant1_5230



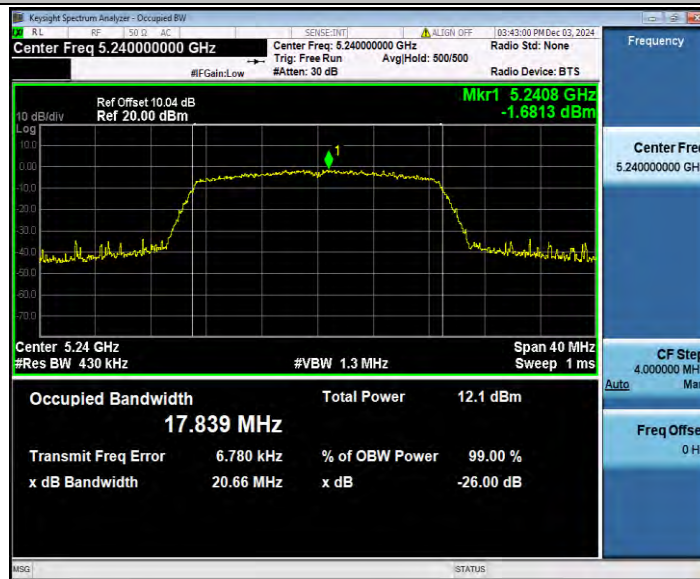
11AC20SISO_Ant1_5180



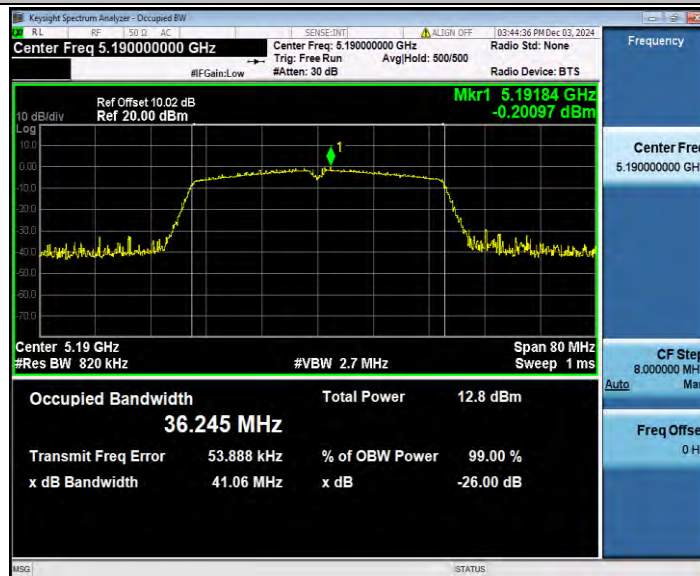
11AC20SISO_Ant1_5200



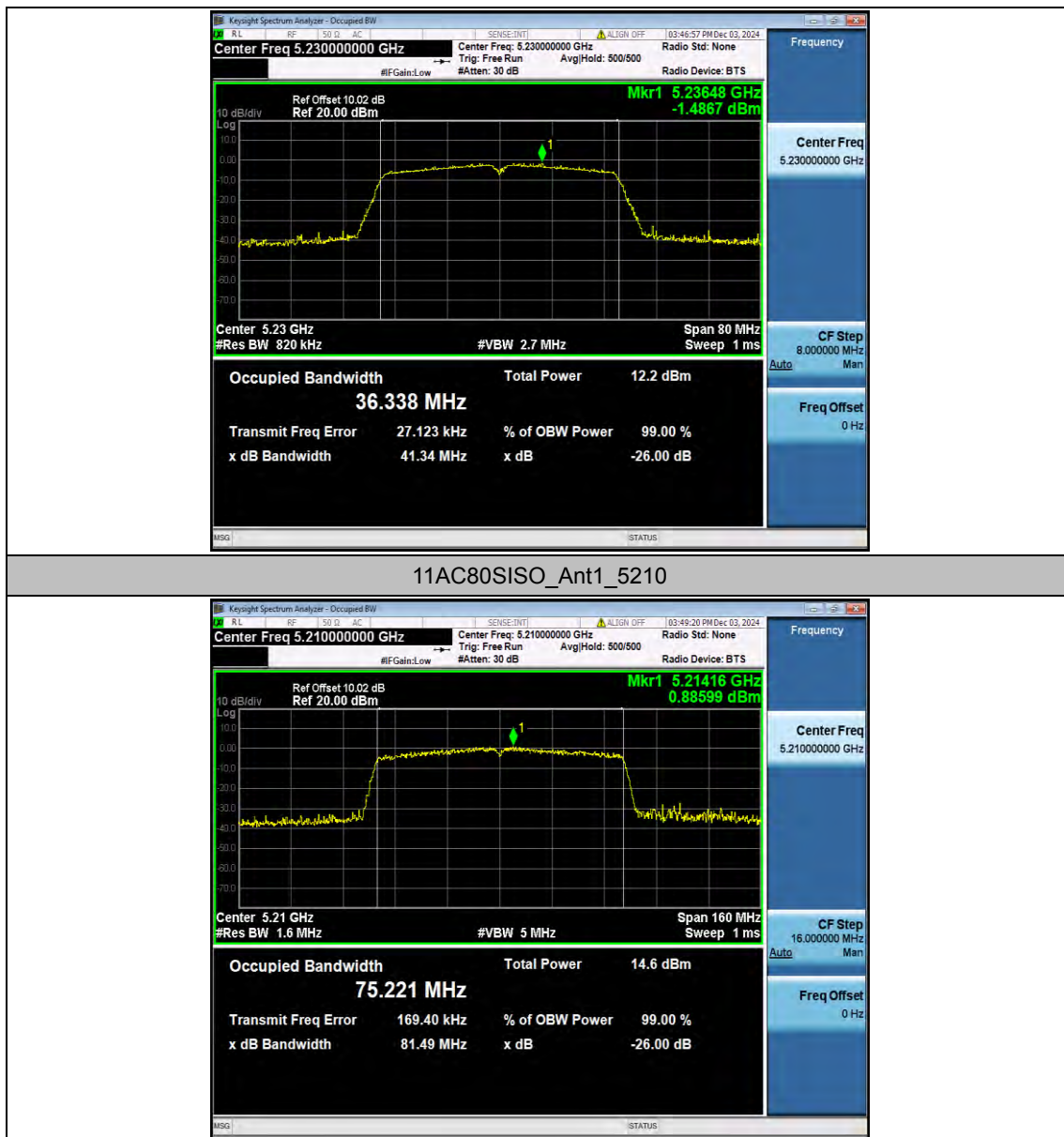
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



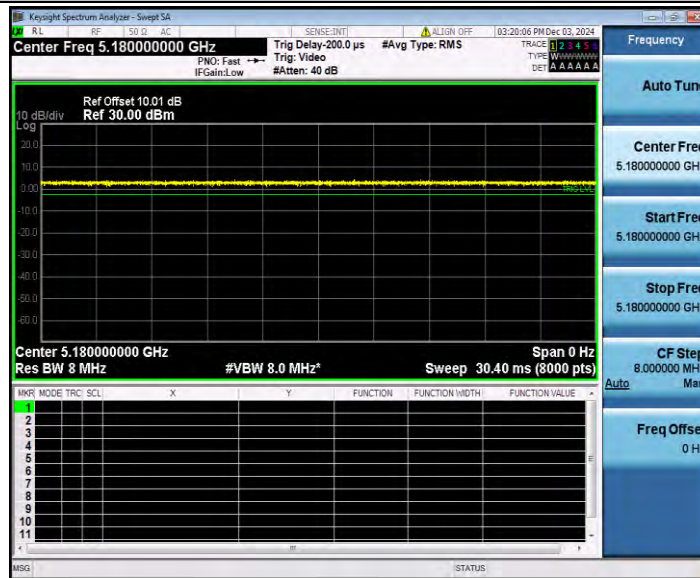
Appendix D.3: Duty Cycle

Test Result

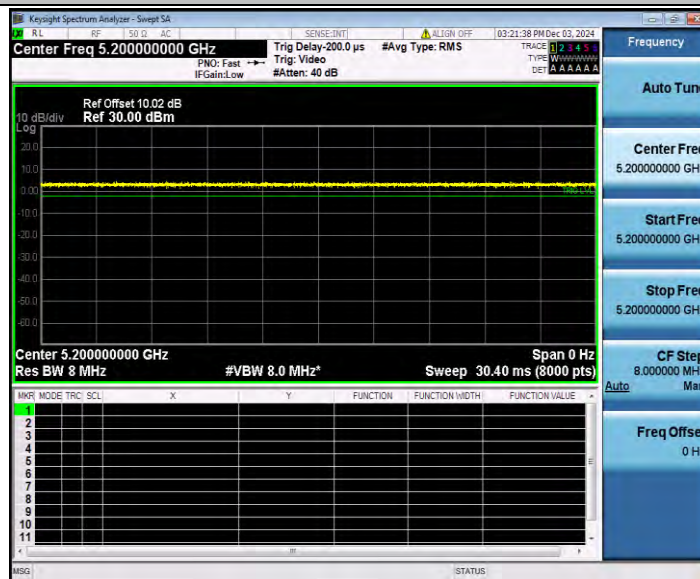
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5180	30.00	30.00	100.00	0.00	0.03
		5200	30.00	30.00	100.00	0.00	0.03
		5240	30.00	30.00	100.00	0.00	0.03
11N20SISO	Ant1	5180	30.00	30.00	100.00	0.00	0.03
		5200	30.00	30.00	100.00	0.00	0.03
		5240	30.00	30.00	100.00	0.00	0.03
11N40SISO	Ant1	5190	30.00	30.00	100.00	0.00	0.03
		5230	30.00	30.00	100.00	0.00	0.03
11AC20SISO	Ant1	5180	30.00	30.00	100.00	0.00	0.03
		5200	30.00	30.00	100.00	0.00	0.03
		5240	30.00	30.00	100.00	0.00	0.03
11AC40SISO	Ant1	5190	30.00	30.00	100.00	0.00	0.03
		5230	30.00	30.00	100.00	0.00	0.03
11AC80SISO	Ant1	5210	30.00	30.00	100.00	0.00	0.03

Test Graphs

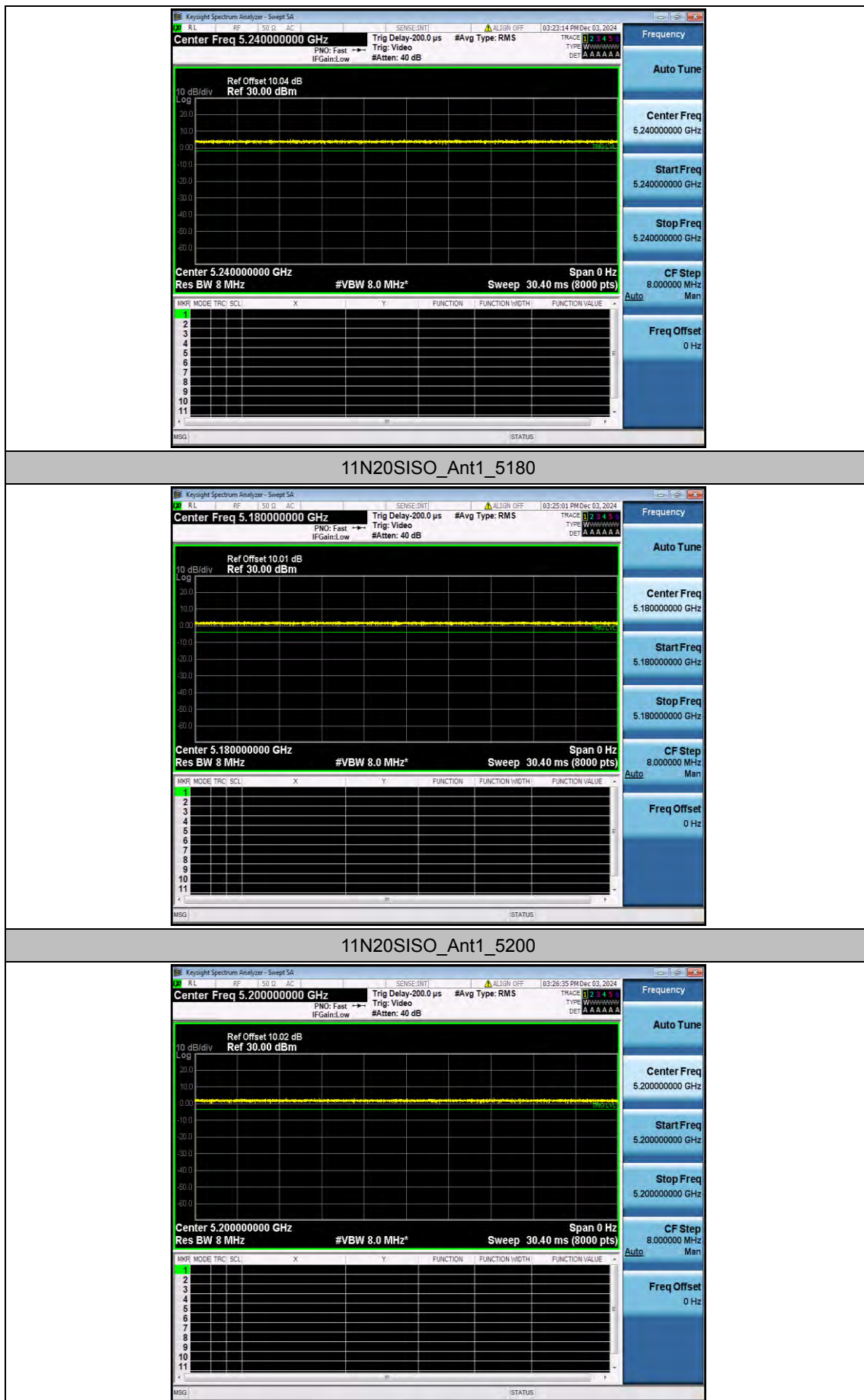
11A_Ant1_5180

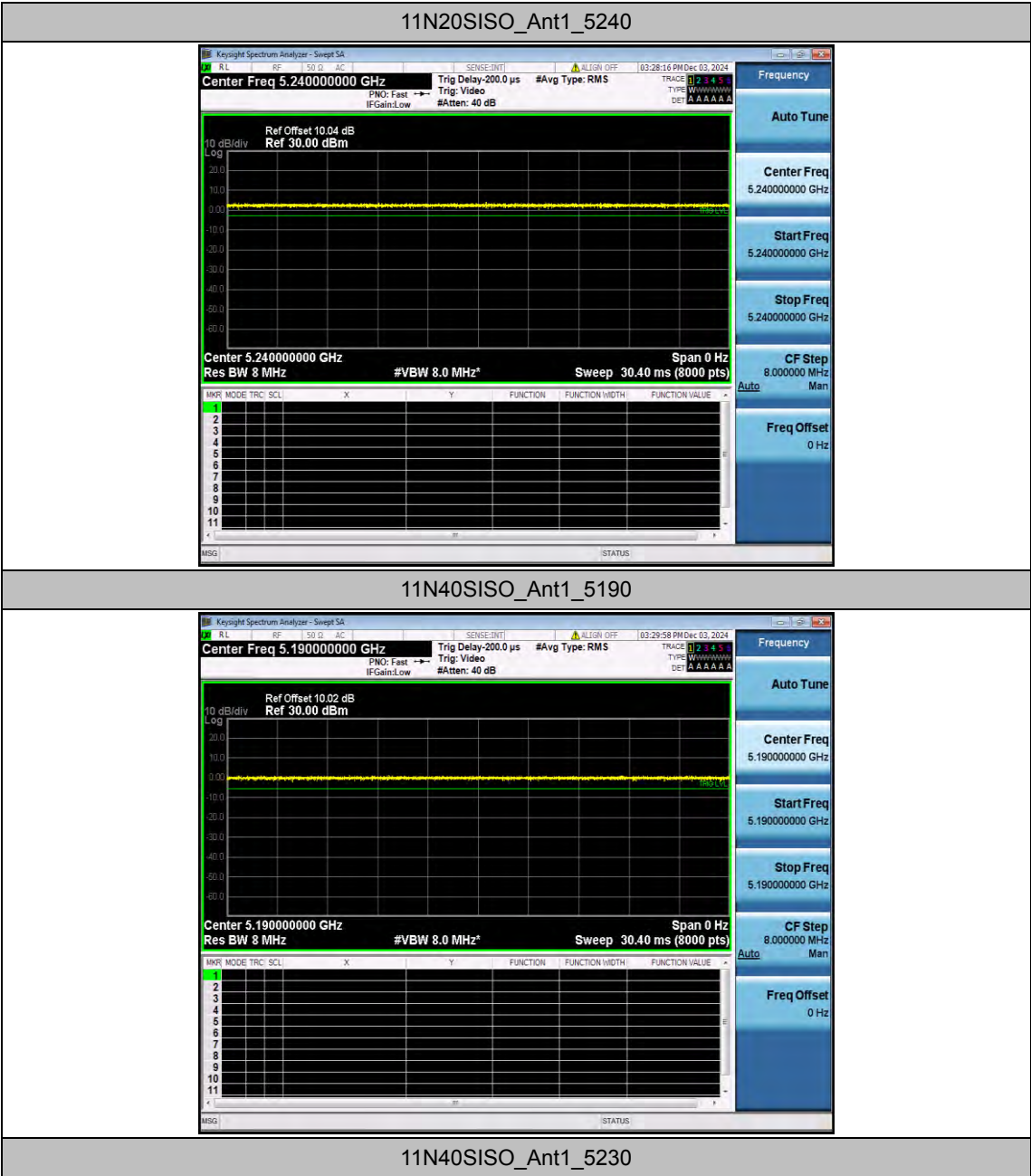


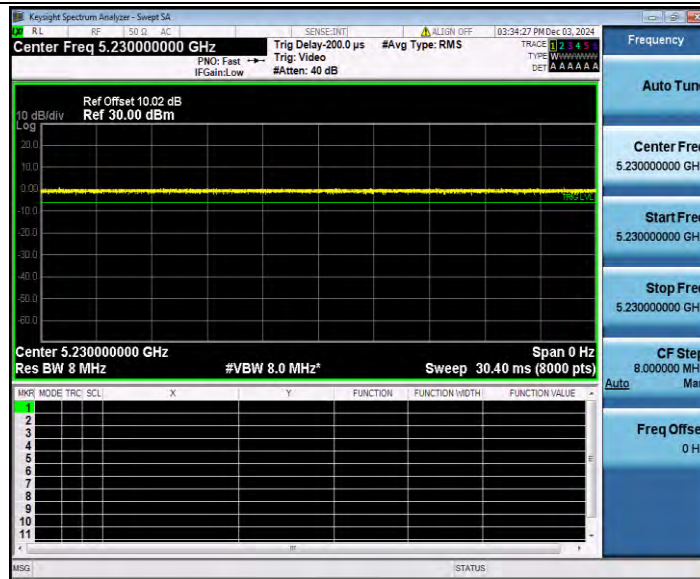
11A_Ant1_5200



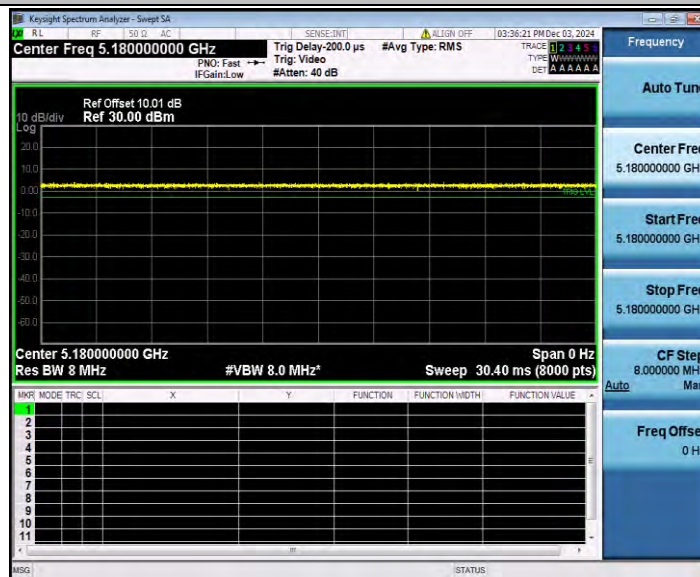
11A_Ant1_5240



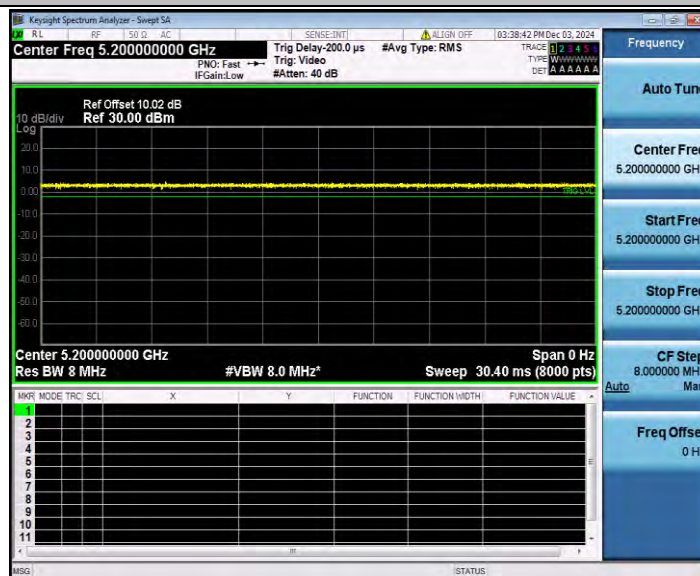


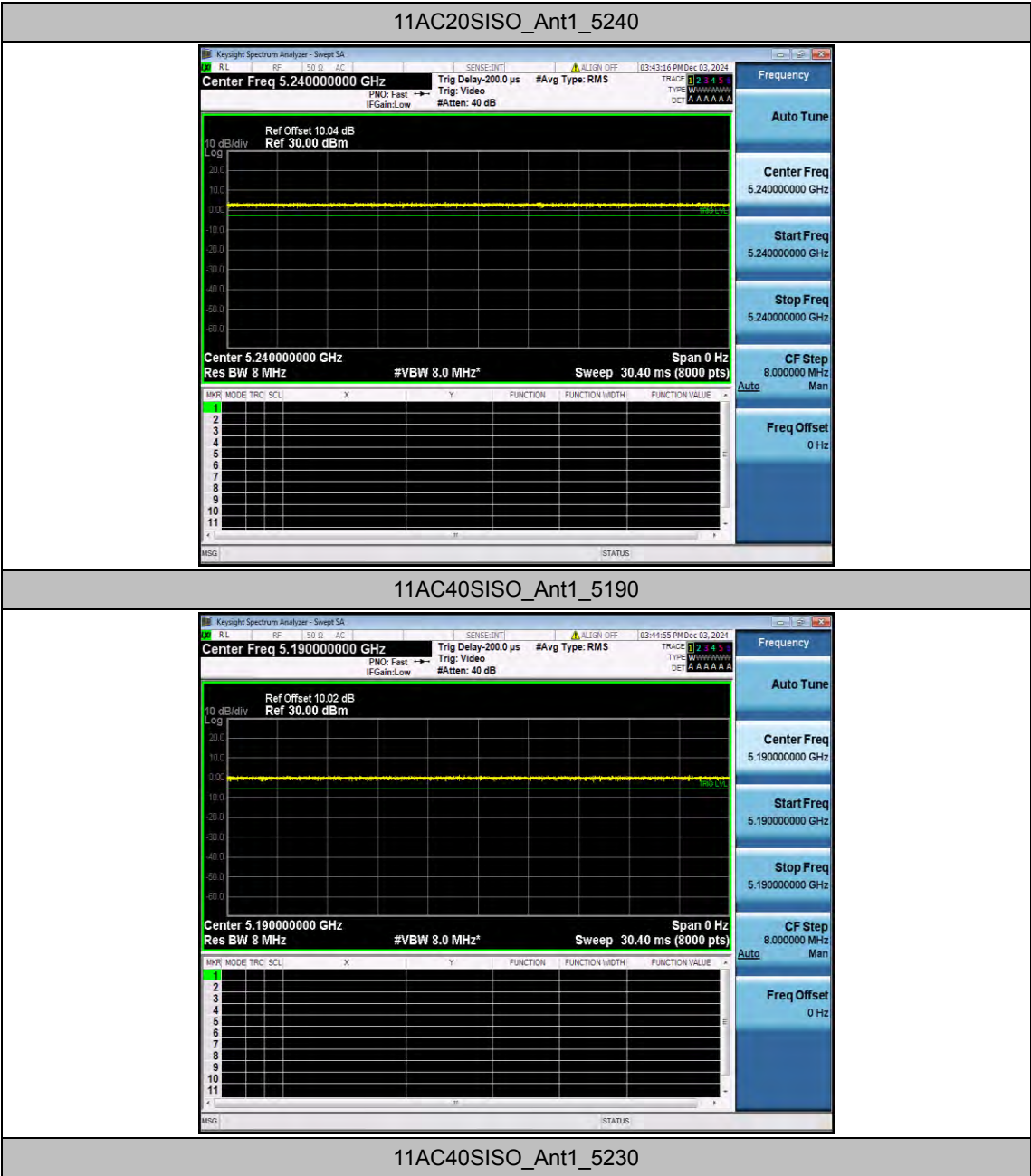


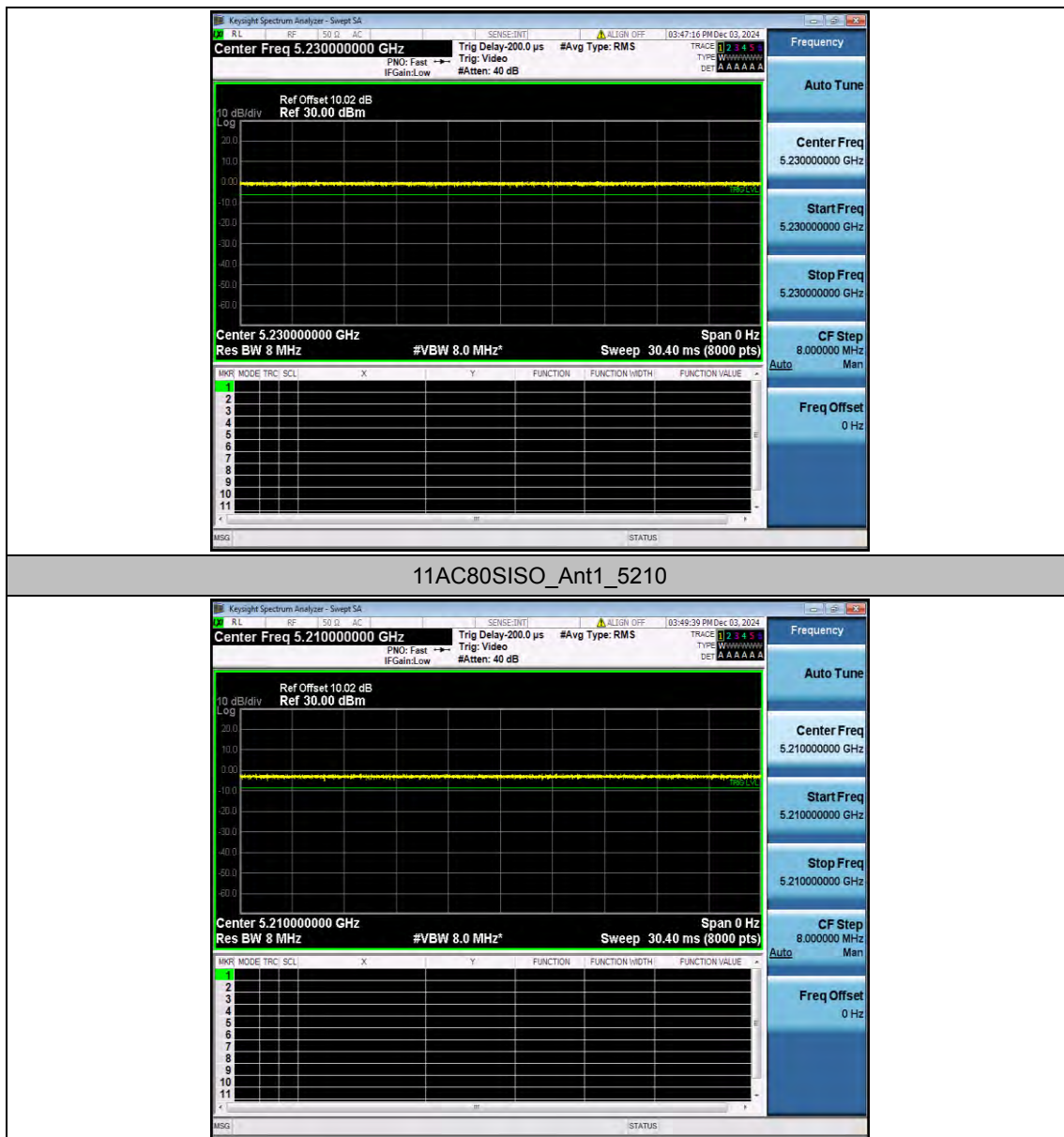
11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200







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	5.59	100.00	0.00	5.59	≤23.98	PASS
		5200	5.85	100.00	0.00	5.85	≤23.98	PASS
		5240	5.44	100.00	0.00	5.44	≤23.98	PASS
11N20SISO	Ant1	5180	4.50	100.00	0.00	4.50	≤23.98	PASS
		5200	4.70	100.00	0.00	4.70	≤23.98	PASS
		5240	5.21	100.00	0.00	5.21	≤23.98	PASS
11N40SISO	Ant1	5190	5.52	100.00	0.00	5.52	≤23.98	PASS
		5230	4.79	100.00	0.00	4.79	≤23.98	PASS
11AC20SISO	Ant1	5180	5.45	100.00	0.00	5.45	≤23.98	PASS
		5200	5.94	100.00	0.00	5.94	≤23.98	PASS
		5240	5.36	100.00	0.00	5.36	≤23.98	PASS
11AC40SISO	Ant1	5190	5.43	100.00	0.00	5.43	≤23.98	PASS
		5230	4.83	100.00	0.00	4.83	≤23.98	PASS
11AC80SISO	Ant1	5210	5.68	100.00	0.00	5.68	≤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	-5.11	≤11.00	PASS
		5200	-4.93	≤11.00	PASS
		5240	-5.32	≤11.00	PASS
11N20SISO	Ant1	5180	-6.43	≤11.00	PASS
		5200	-6.27	≤11.00	PASS
		5240	-5.68	≤11.00	PASS
11N40SISO	Ant1	5190	-8.05	≤11.00	PASS
		5230	-8.86	≤11.00	PASS
11AC20SISO	Ant1	5180	-5.48	≤11.00	PASS
		5200	-4.97	≤11.00	PASS
		5240	-5.49	≤11.00	PASS
11AC40SISO	Ant1	5190	-8.10	≤11.00	PASS
		5230	-8.78	≤11.00	PASS
11AC80SISO	Ant1	5210	-11.08	≤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



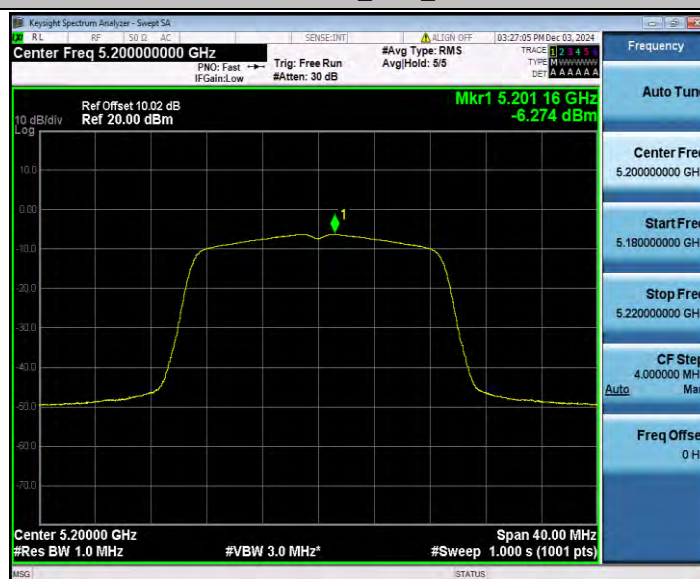
11A_Ant1_5240



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

