

Case No. : CTA24050902504	
Ambient Condition: 23 °C, 49 %RH	
According Standard: ■Part15E	
Test Date: 2024.3.19	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	21.920	5168.760	5190.680	---	---
		5200	21.600	5189.120	5210.720	---	---
		5240	22.000	5228.720	5250.720	---	---
11N20SISO	Ant1	5180	22.840	5168.440	5191.280	---	---
		5200	22.920	5188.520	5211.440	---	---
		5240	22.840	5228.440	5251.280	---	---
11N40SISO	Ant1	5190	44.320	5167.760	5212.080	---	---
		5230	44.480	5207.520	5252.000	---	---
11AC20SISO	Ant1	5180	22.680	5168.400	5191.080	---	---
		5200	22.880	5188.400	5211.280	---	---
		5240	22.680	5228.440	5251.120	---	---
11AC40SISO	Ant1	5190	44.320	5167.760	5212.080	---	---
		5230	43.920	5207.760	5251.680	---	---
11AC80SISO	Ant1	5210	84.160	5168.080	5252.240	---	---

Test Graphs

11A_Ant1_5180



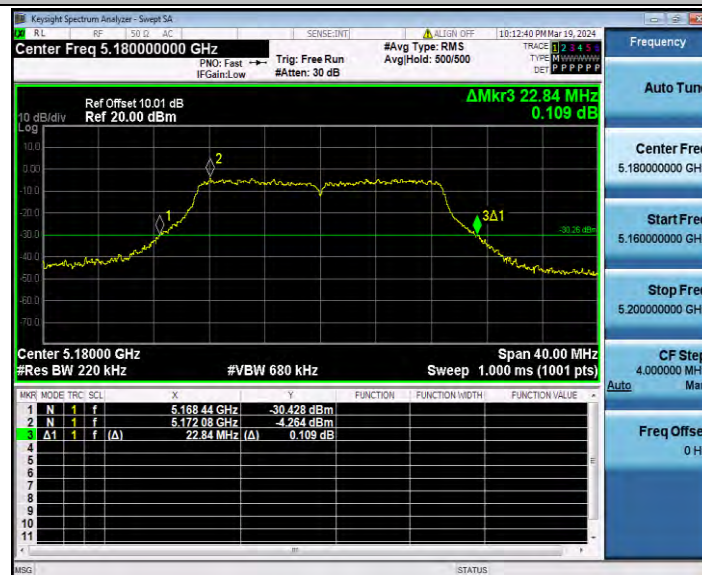
11A_Ant1_5200



11A_Ant1_5240



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



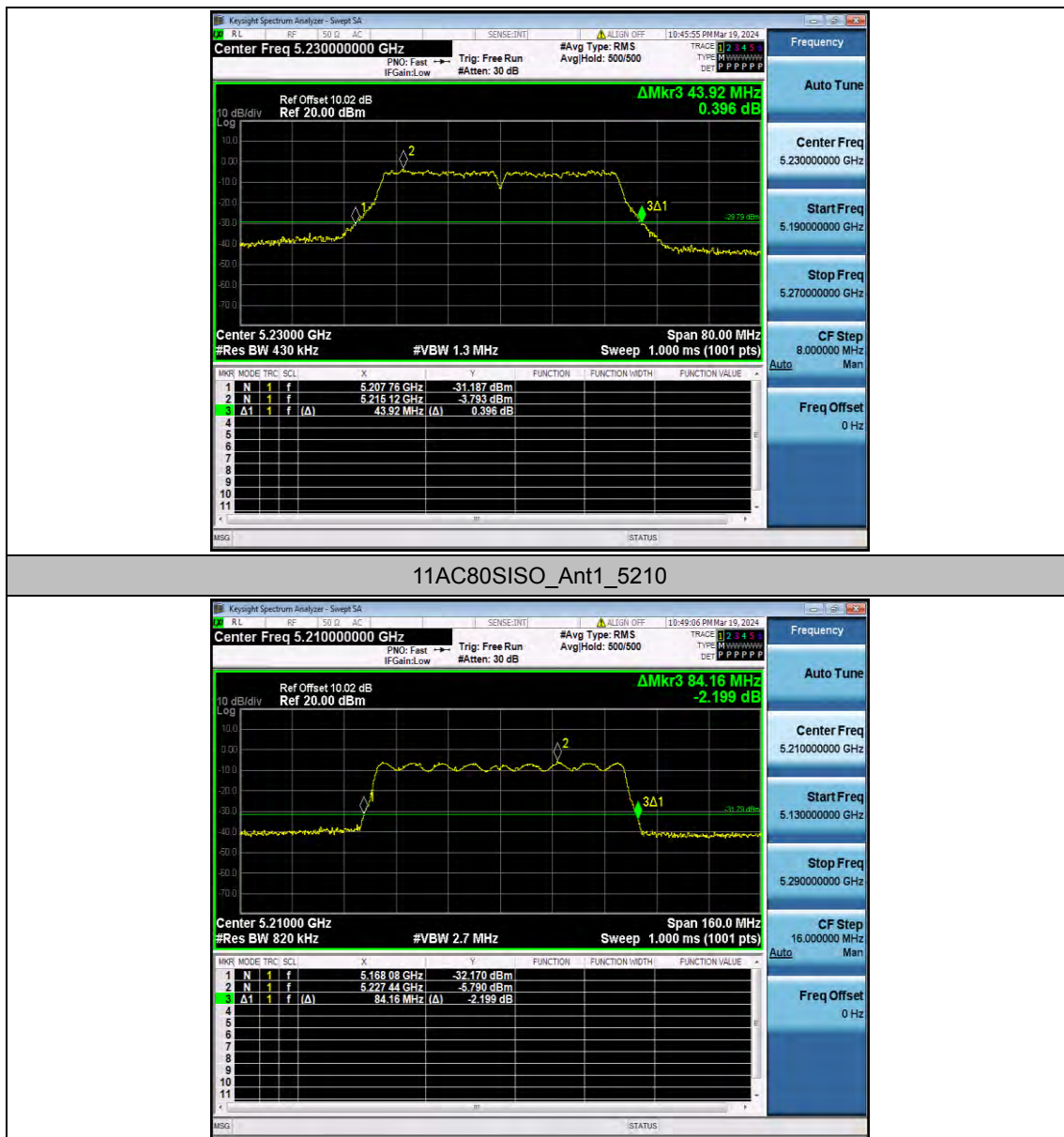
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



Appendix D.2: Occupied channel bandwidth

Test Result

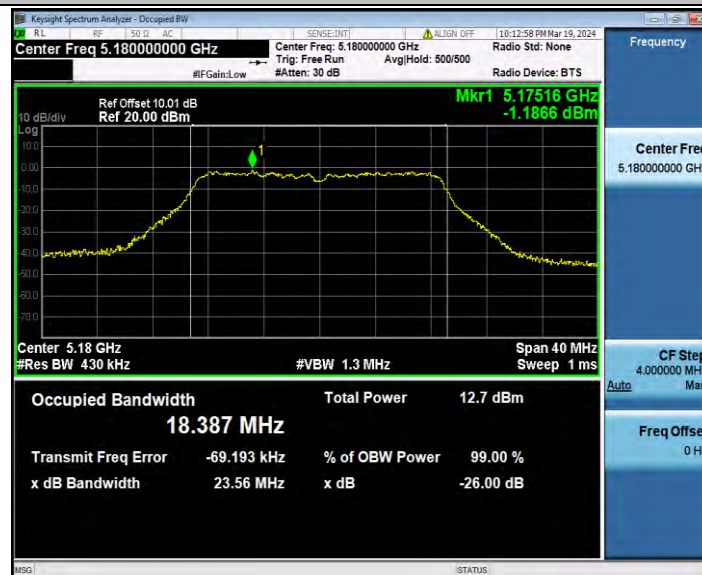
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.384	5171.1435	5188.5275	---	---
		5200	17.219	5191.3059	5208.5249	---	---
		5240	17.465	5231.0459	5248.5109	---	---
11N20SISO	Ant1	5180	18.387	5170.7373	5189.1243	---	---
		5200	18.340	5190.8132	5209.1532	---	---
		5240	18.379	5230.7339	5249.1129	---	---
11N40SISO	Ant1	5190	37.445	5171.2550	5208.7000	---	---
		5230	37.452	5211.1720	5248.6240	---	---
11AC20SISO	Ant1	5180	18.363	5170.7506	5189.1136	---	---
		5200	18.344	5190.7854	5209.1294	---	---
		5240	18.425	5230.6851	5249.1101	---	---
11AC40SISO	Ant1	5190	37.371	5171.3296	5208.7006	---	---
		5230	37.367	5211.2779	5248.6449	---	---
11AC80SISO	Ant1	5210	76.360	5171.7922	5248.1522	---	---

Test Graphs

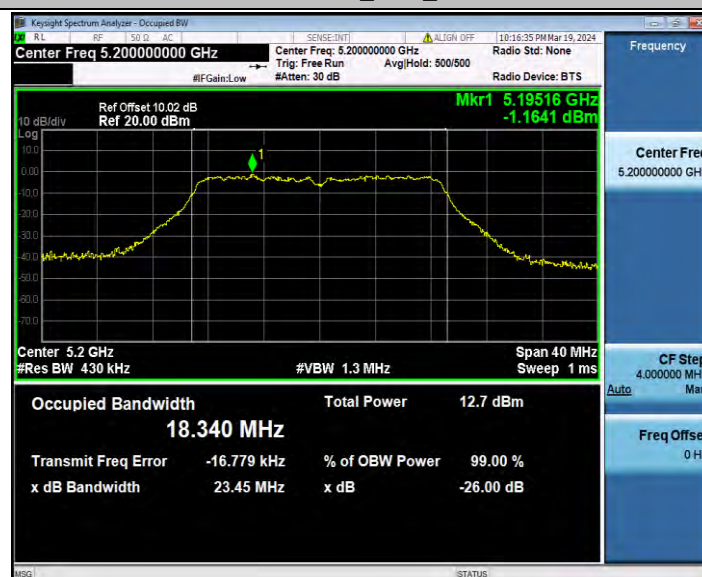




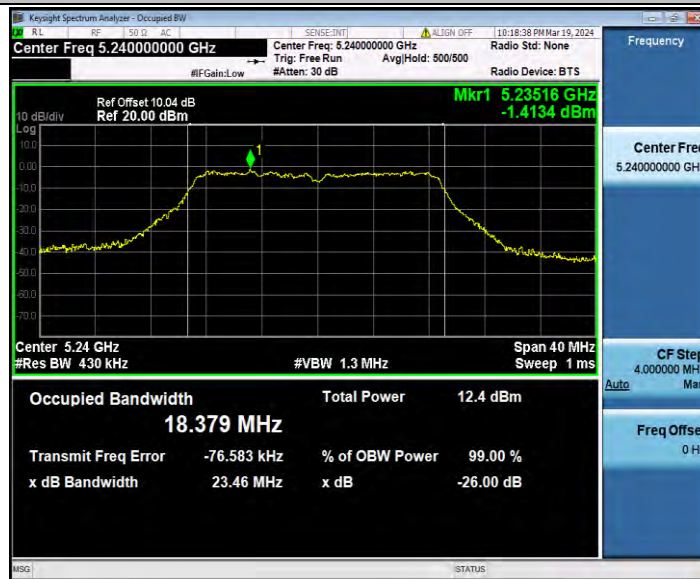
11N20SISO_Ant1_5180



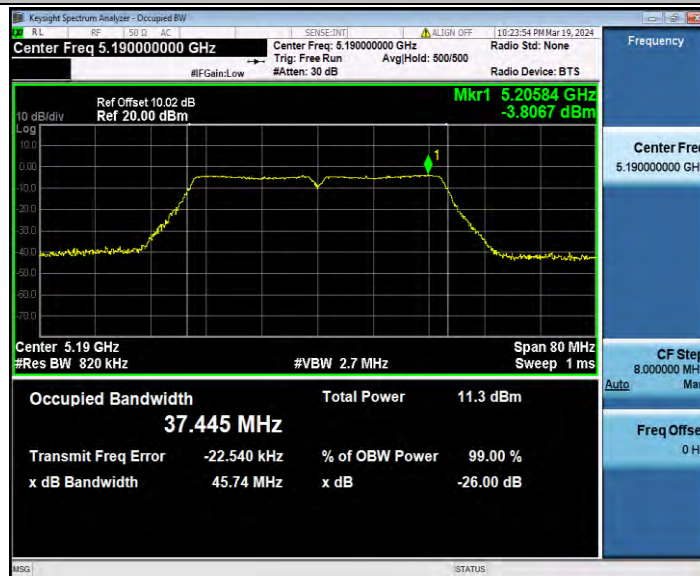
11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



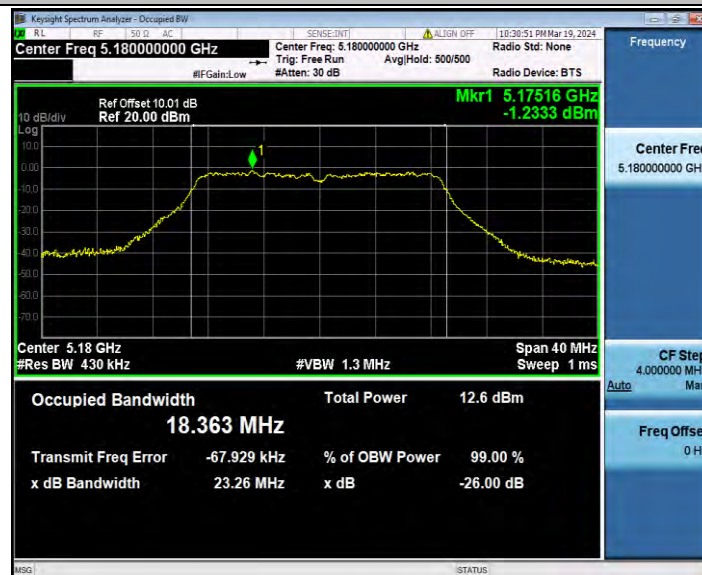
11N40SISO_Ant1_5190



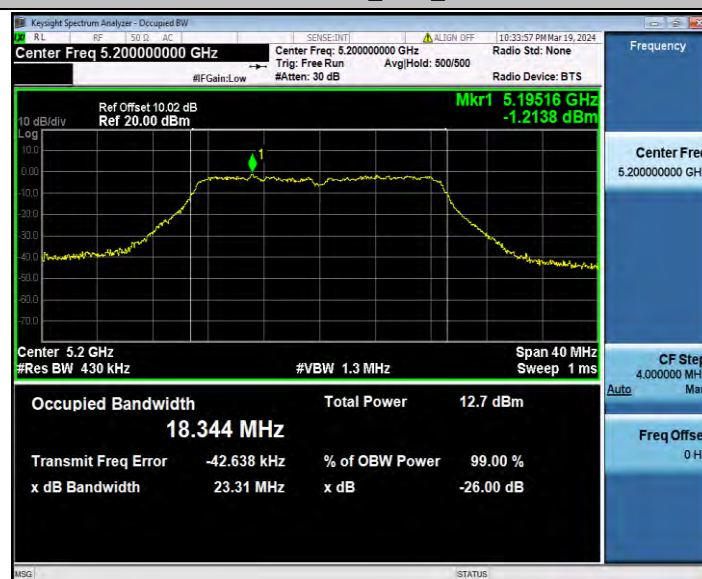
11N40SISO_Ant1_5230



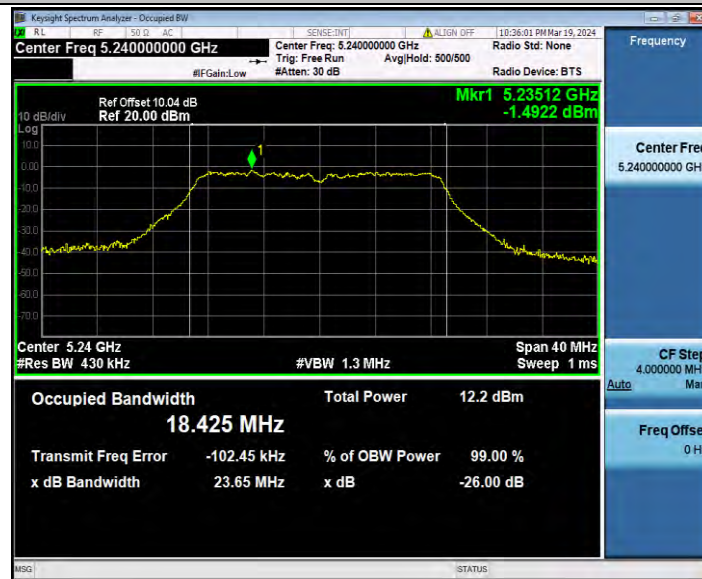
11AC20SISO_Ant1_5180



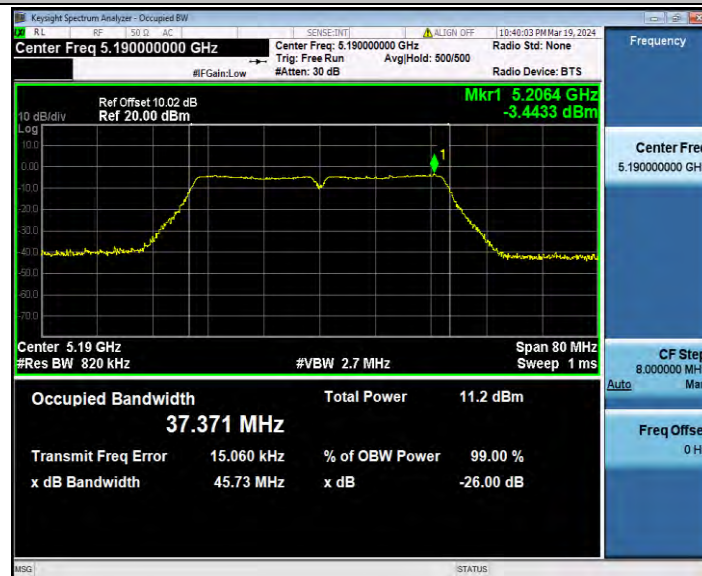
11AC20SISO_Ant1_5200



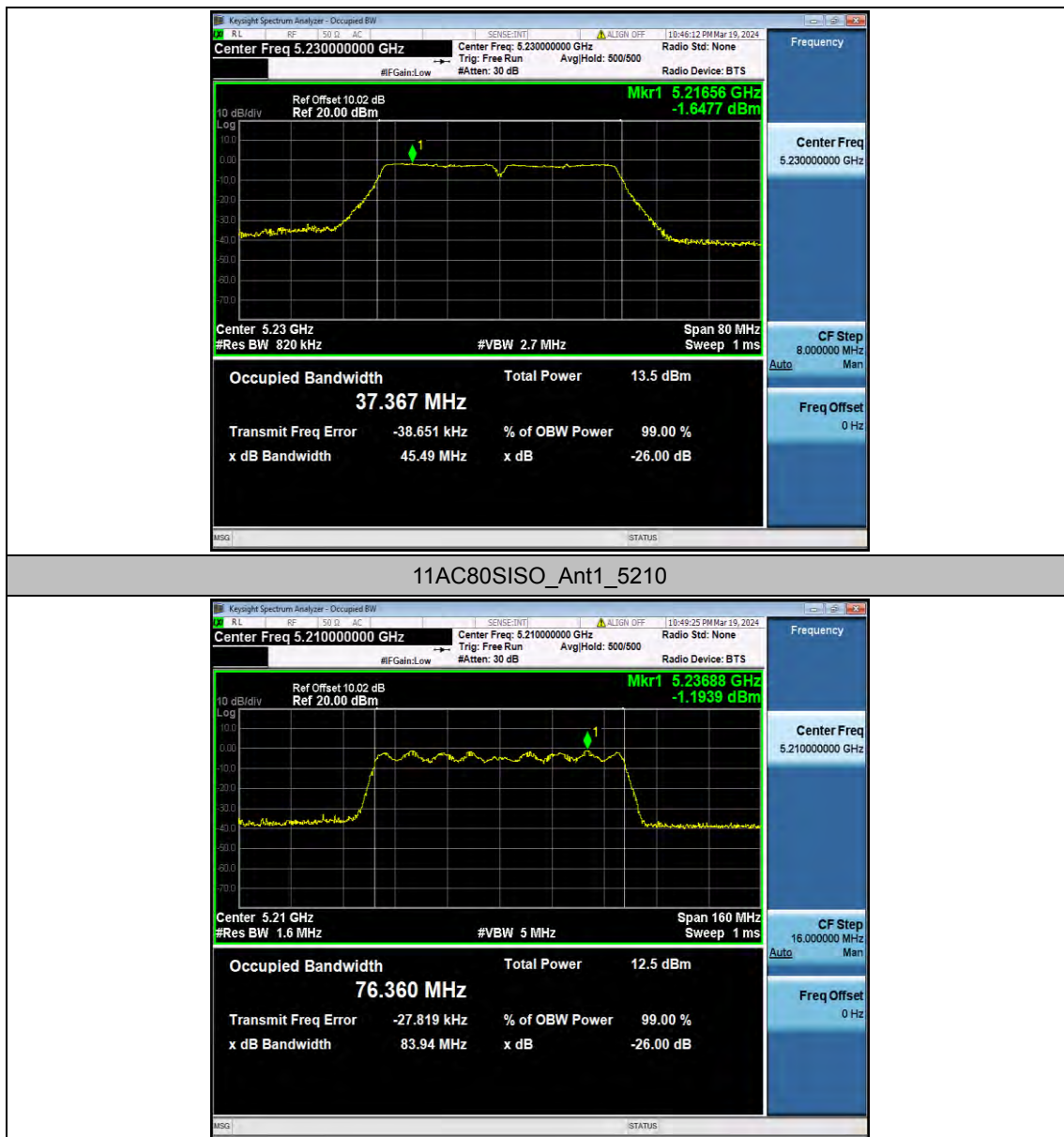
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230

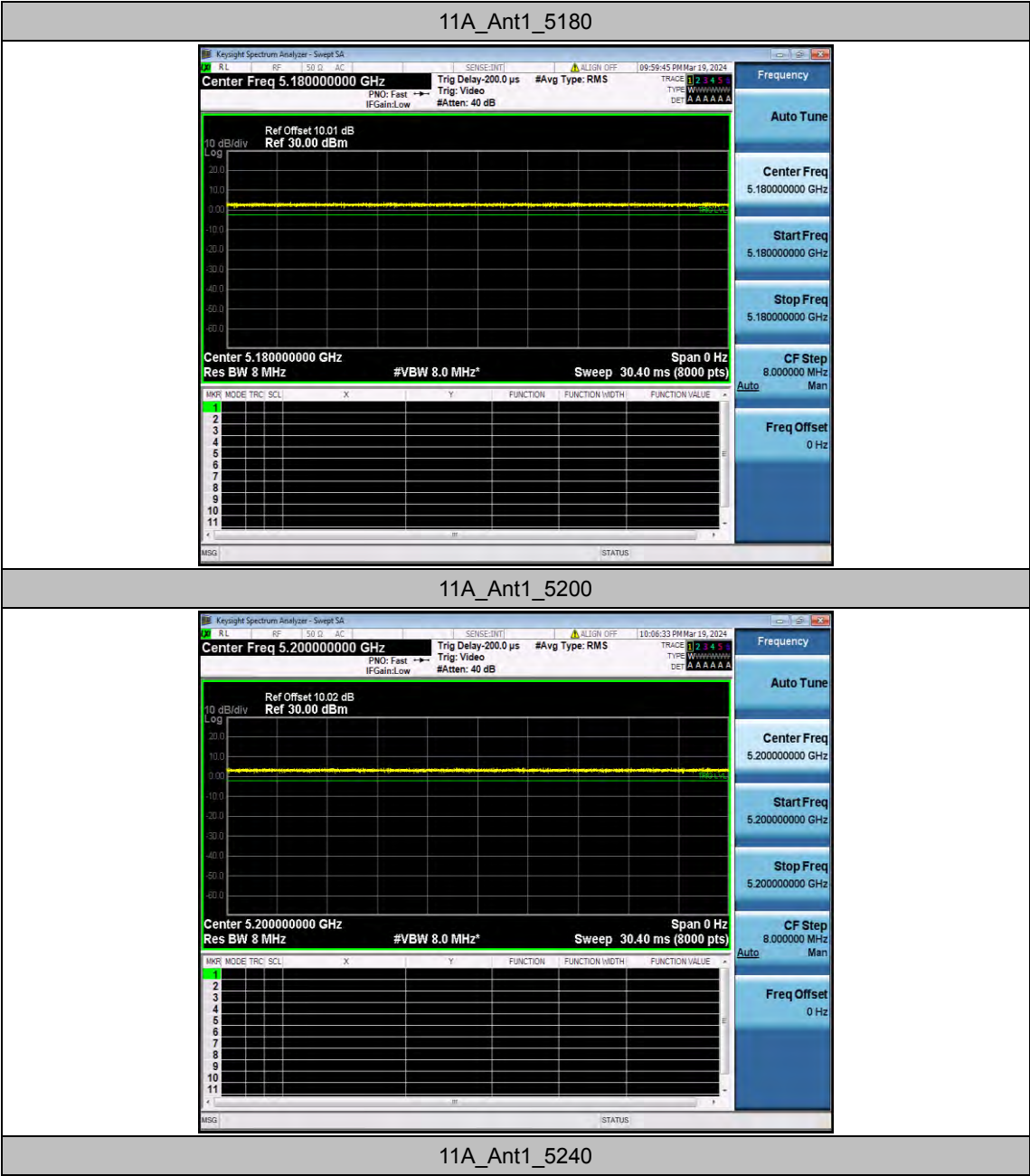


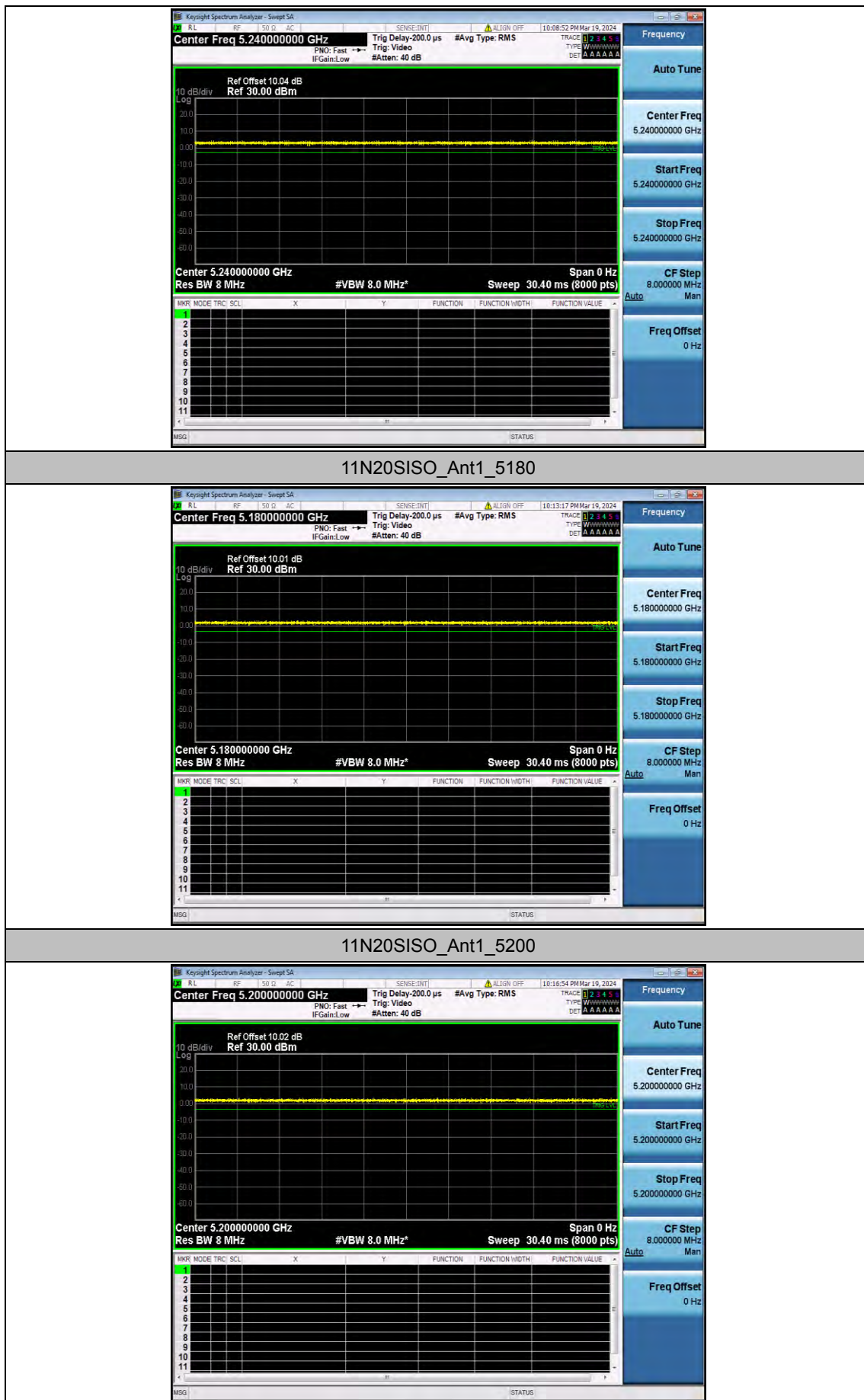
Appendix D.3: Duty Cycle

Test Result

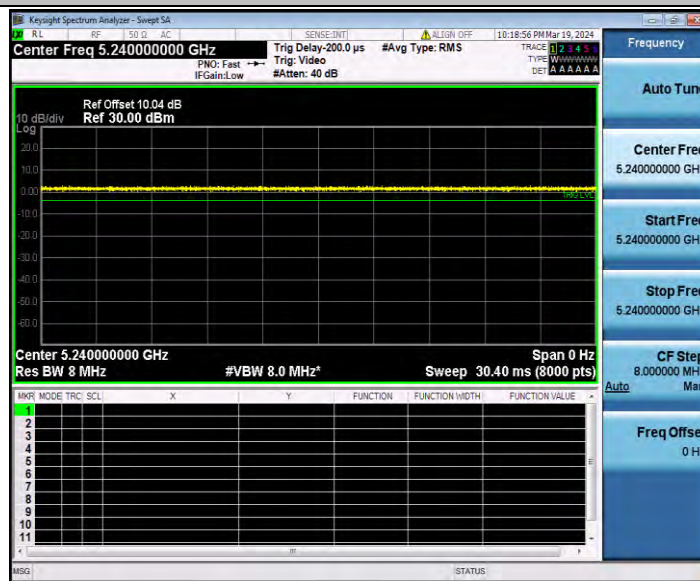
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5180	30.00	30.00	100.00	0.00	0.03
		5200	30.00	30.00	100.00	0.00	0.03
		5240	30.00	30.00	100.00	0.00	0.03
11N20SISO	Ant1	5180	30.00	30.00	100.00	0.00	0.03
		5200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

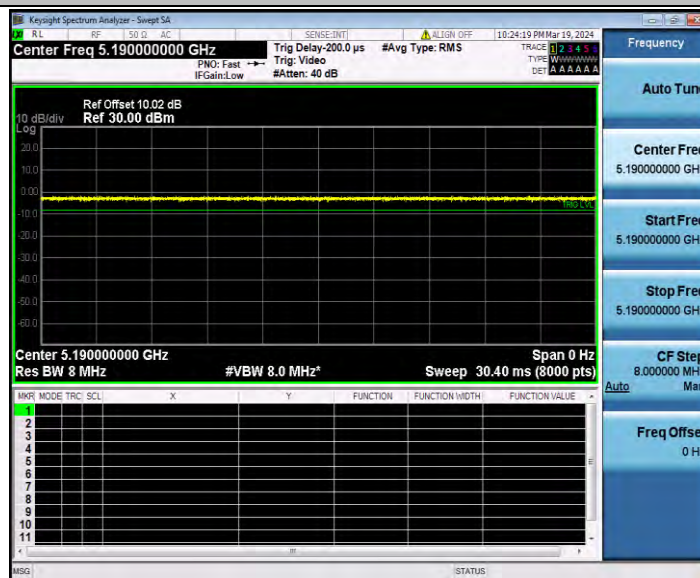




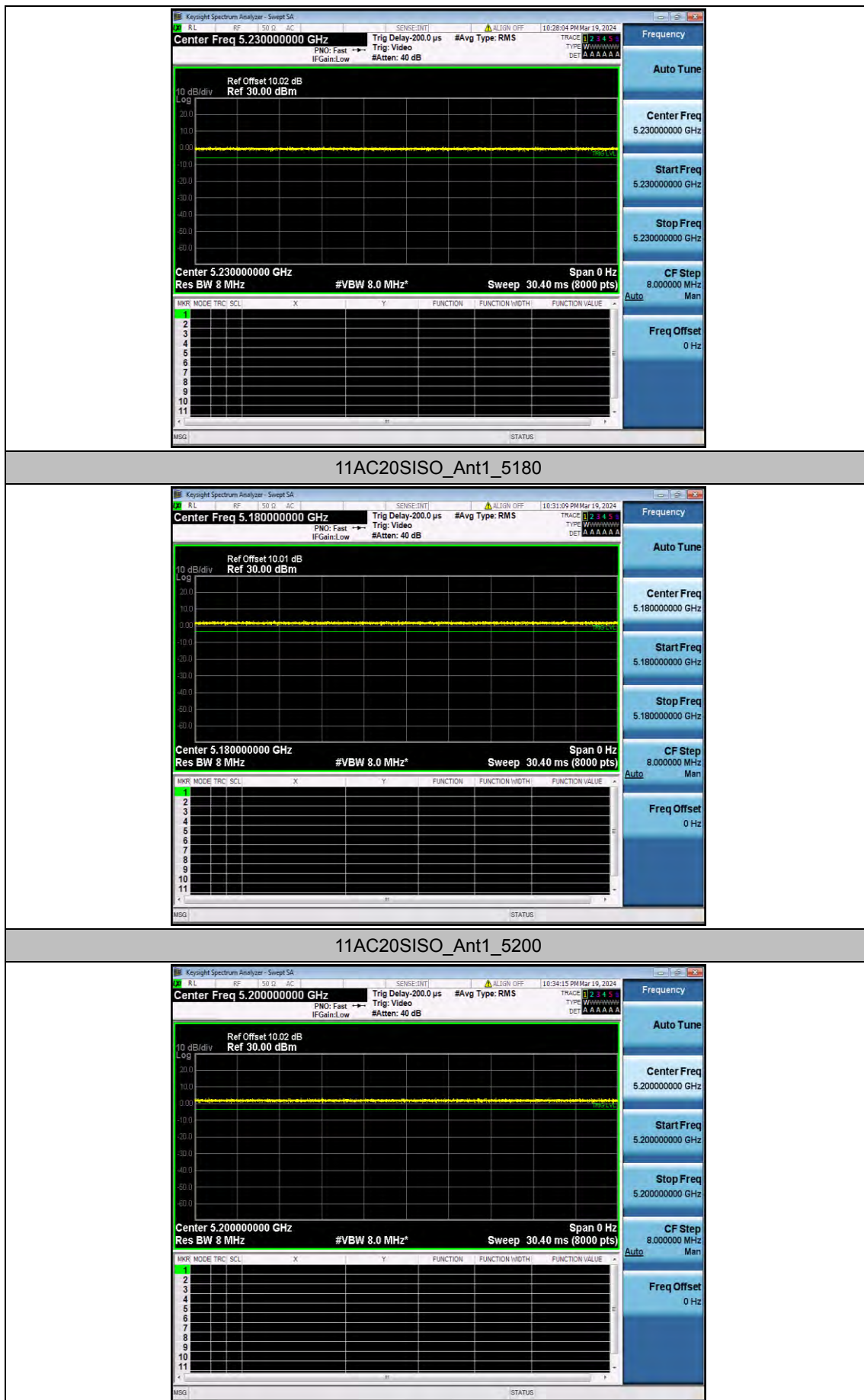
11N20SISO_Ant1_5240



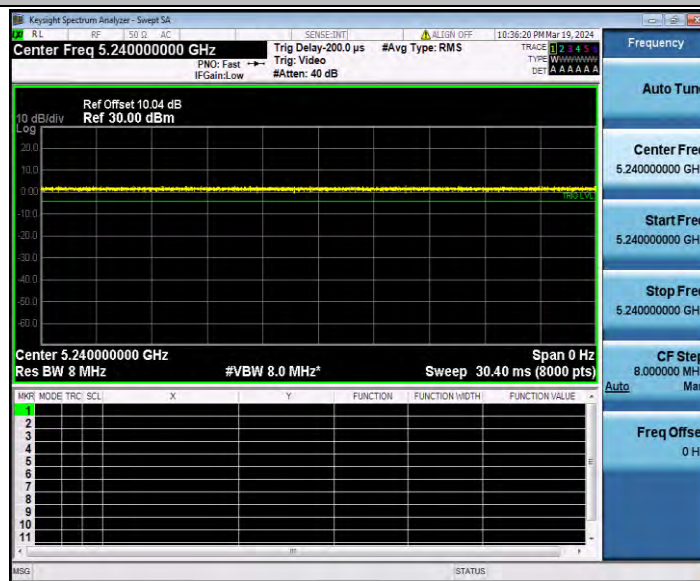
11N40SISO_Ant1_5190



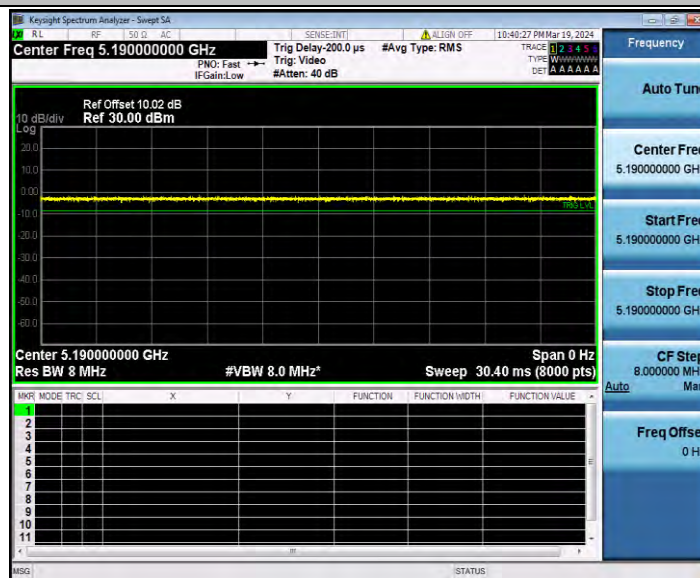
11N40SISO_Ant1_5230



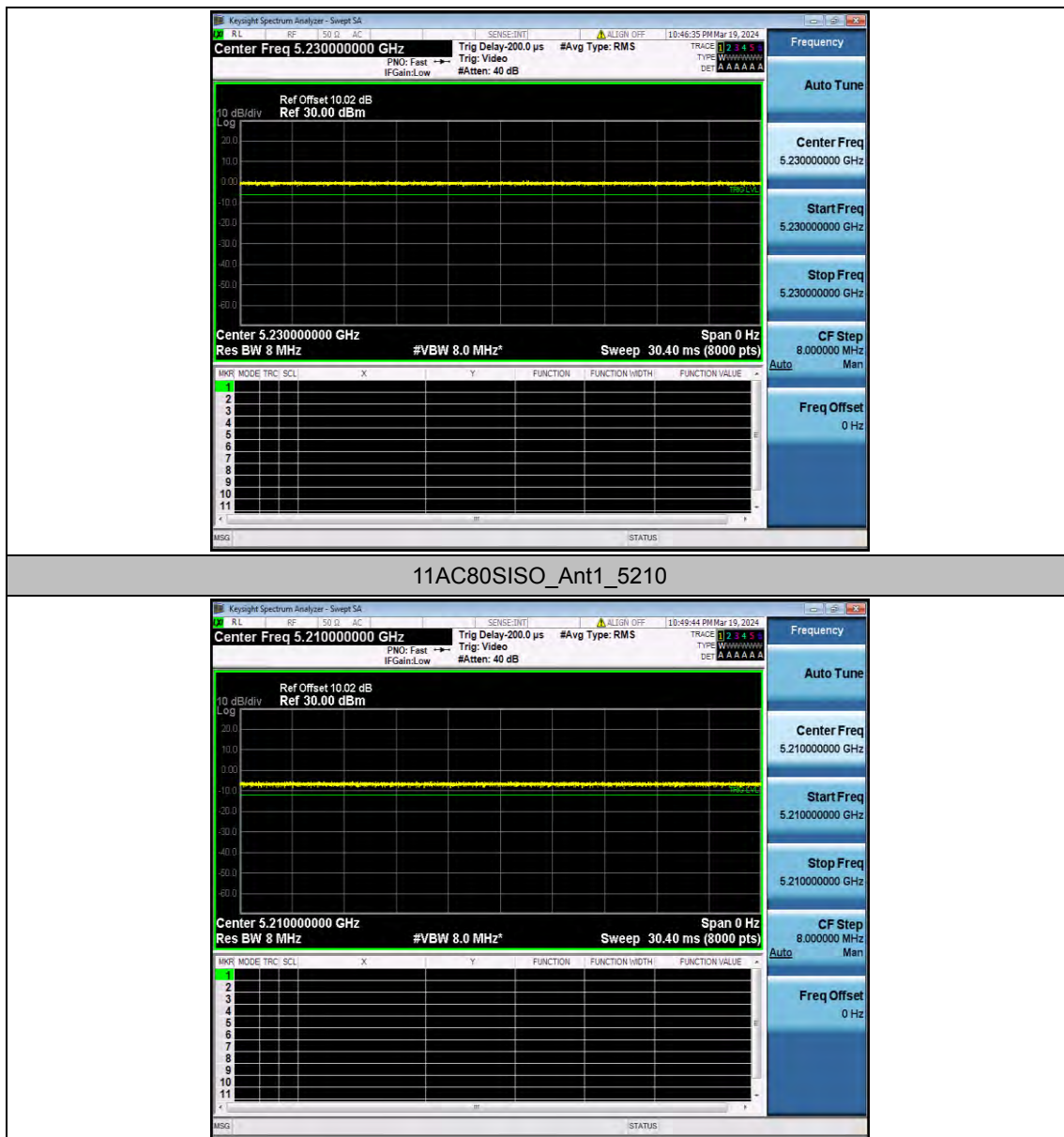
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



Appendix D.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Freq(MHz)	Channel Power [dBm]	Duty Cycle [%]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	6.76	100.00	6.76	≤23.98	PASS
		5200	6.98	100.00	6.98	≤23.98	PASS
		5240	6.72	100.00	6.72	≤23.98	PASS
11N20SISO	Ant1	5180	5.97	100.00	5.97	≤23.98	PASS
		5200	6.09	100.00	6.09	≤23.98	PASS
		5240	5.64	100.00	5.64	≤23.98	PASS
11N40SISO	Ant1	5190	5.11	100.00	5.11	≤23.98	PASS
		5230	6.38	100.00	6.38	≤23.98	PASS
11AC20SISO	Ant1	5180	5.86	100.00	5.86	≤23.98	PASS
		5200	5.97	100.00	5.97	≤23.98	PASS
		5240	5.51	100.00	5.51	≤23.98	PASS
11AC40SISO	Ant1	5190	5.01	100.00	5.01	≤23.98	PASS
		5230	6.30	100.00	6.30	≤23.98	PASS
11AC80SISO	Ant1	5210	5.70	100.00	5.70	≤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	-4.99	≤11.00	PASS
		5200	-4.52	≤11.00	PASS
		5240	-4.71	≤11.00	PASS
11N20SISO	Ant1	5180	-5.94	≤11.00	PASS
		5200	-5.70	≤11.00	PASS
		5240	-6.12	≤11.00	PASS
11N40SISO	Ant1	5190	-10.37	≤11.00	PASS
		5230	-8.08	≤11.00	PASS
11AC20SISO	Ant1	5180	-6.08	≤11.00	PASS
		5200	-5.82	≤11.00	PASS
		5240	-6.27	≤11.00	PASS
11AC40SISO	Ant1	5190	-10.50	≤11.00	PASS
		5230	-8.16	≤11.00	PASS
11AC80SISO	Ant1	5210	-12.90	≤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_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

