

Case No. : <u>CTA24053000104</u>	
Ambient Condition: <u>23</u> °C, <u>48</u> %RH	
According Standard: ■Part15E	
Test Date: <u>2024.6.5</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]
11A	Ant1	5180	20.560	5169.720	5190.280
		5200	20.680	5189.560	5210.240
		5240	20.760	5229.480	5250.240
11N20SISO	Ant1	5180	21.560	5169.160	5190.720
		5200	21.720	5189.040	5210.760
		5240	21.680	5229.040	5250.720
11N40SISO	Ant1	5190	43.440	5168.160	5211.600
		5230	43.600	5208.080	5251.680
11AC20SISO	Ant1	5180	21.520	5169.200	5190.720
		5200	21.720	5189.120	5210.840
		5240	21.640	5229.120	5250.760
11AC40SISO	Ant1	5190	43.200	5168.400	5211.600
		5230	43.600	5208.080	5251.680
11AC80SISO	Ant1	5210	82.880	5169.040	5251.920

Test Graphs





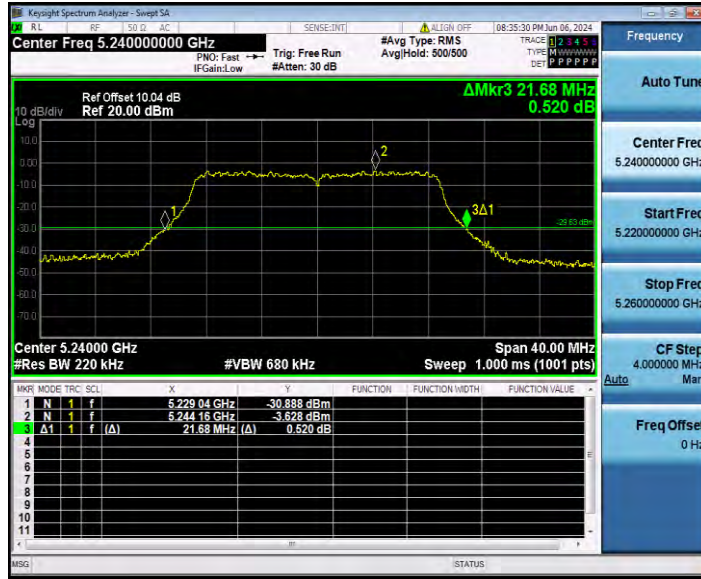
11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



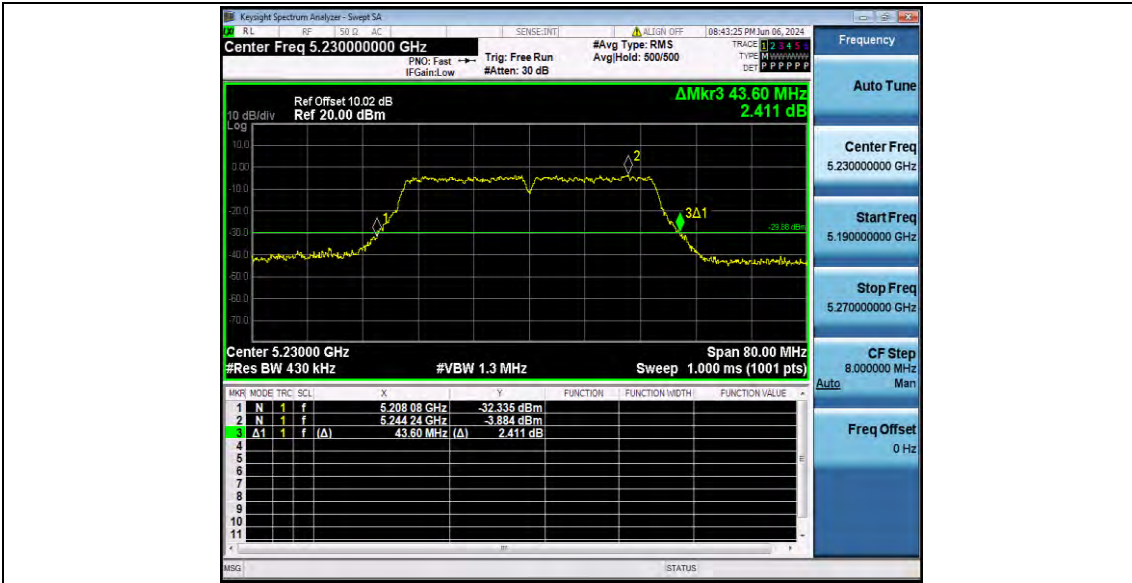
11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



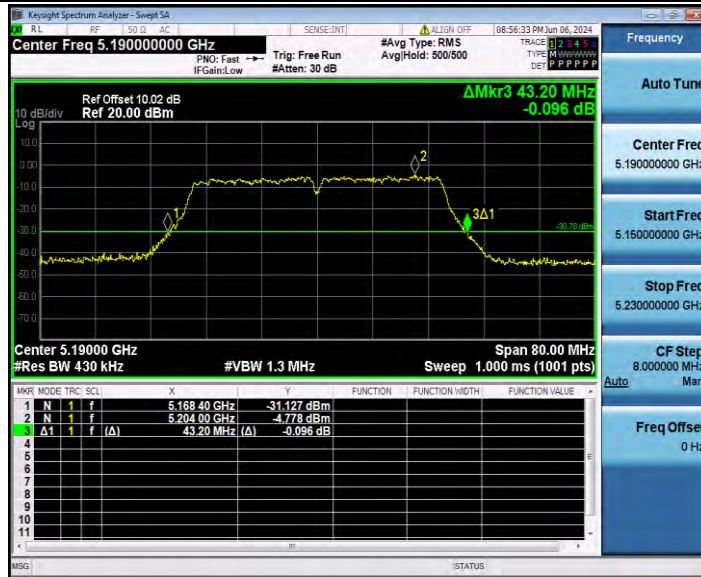
11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



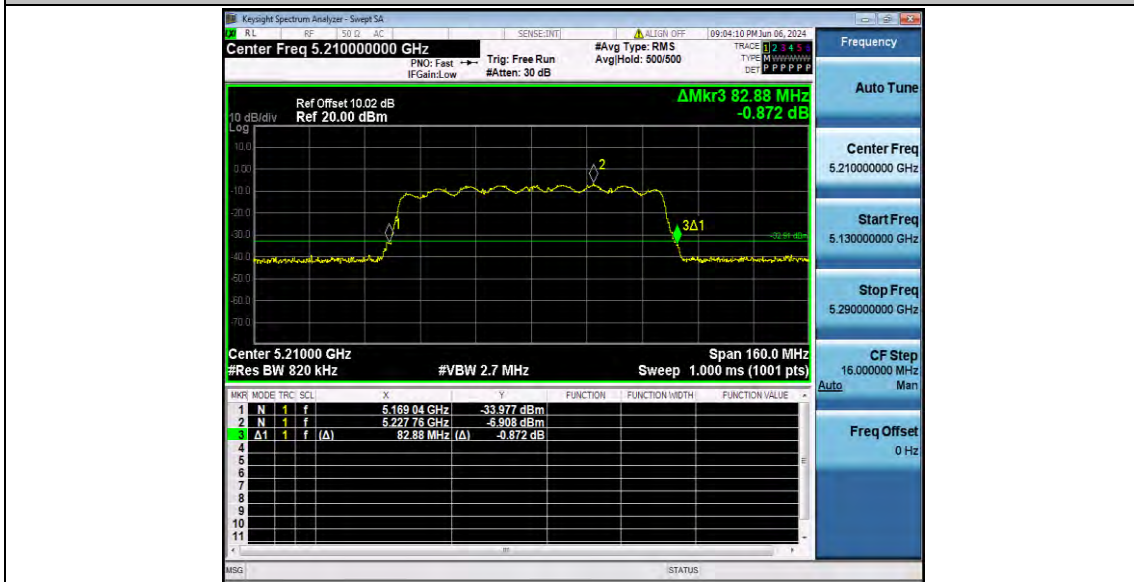
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210

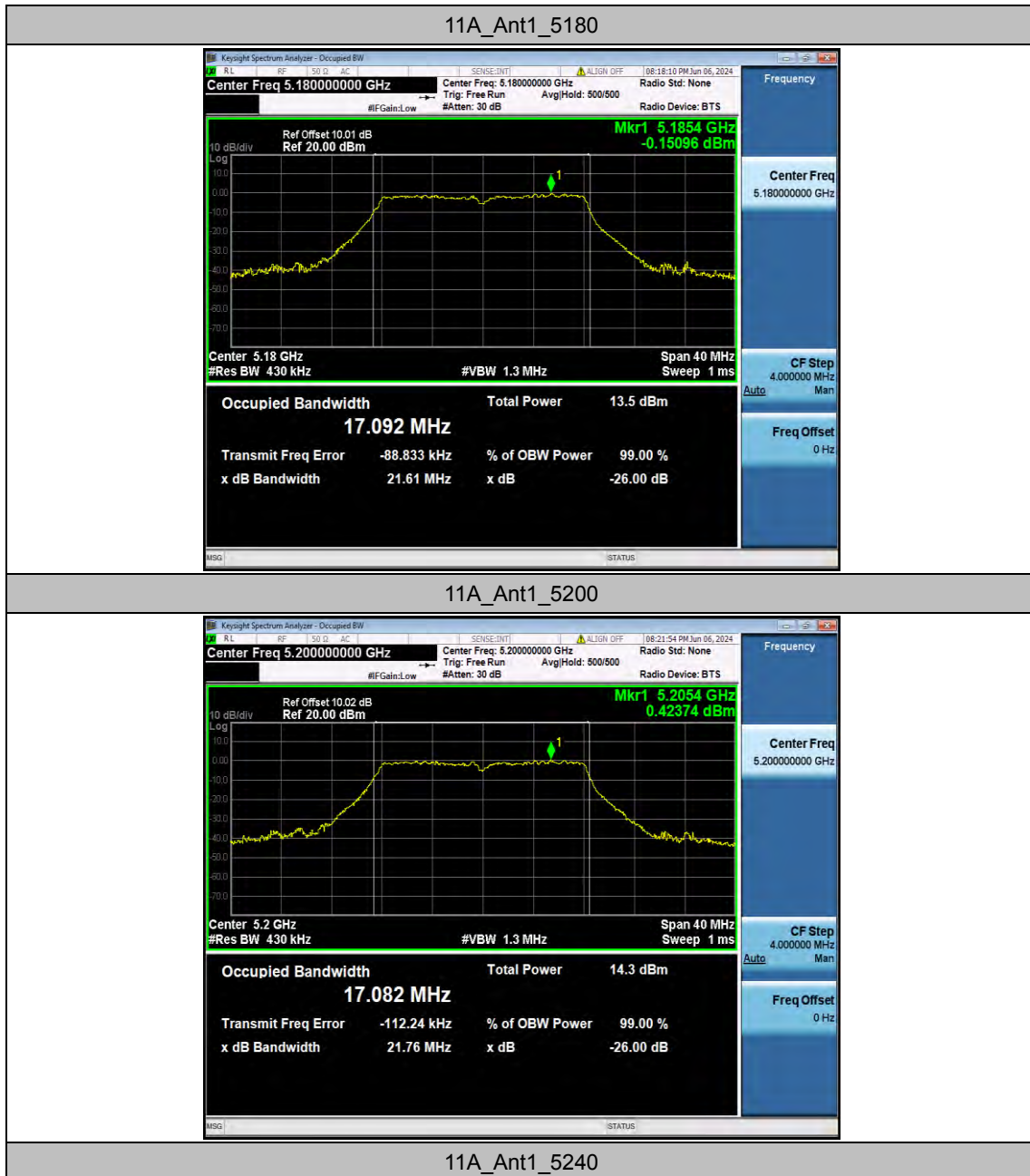


Appendix D.2: Occupied channel bandwidth

Test Result

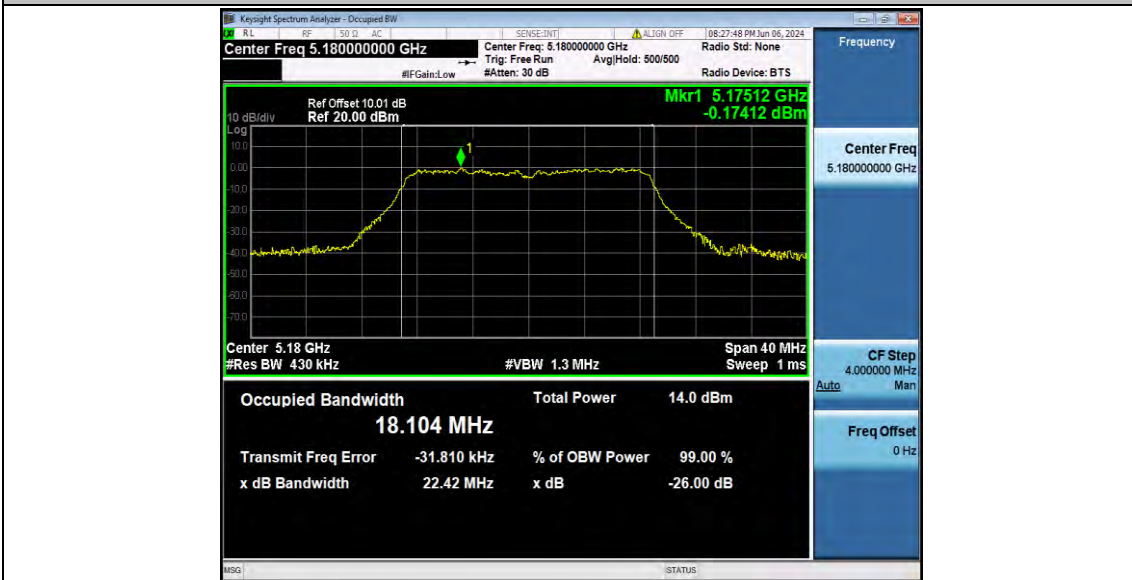
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]
11A	Ant1	5180	17.092	5171.3652	5188.4572
		5200	17.082	5191.3468	5208.4288
		5240	17.085	5231.3351	5248.4201
11N20SISO	Ant1	5180	18.104	5170.9162	5189.0202
		5200	18.071	5190.9115	5208.9825
		5240	18.066	5230.9136	5248.9796
11N40SISO	Ant1	5190	36.944	5171.6371	5208.5811
		5230	37.045	5211.4866	5248.5316
11AC20SISO	Ant1	5180	18.110	5170.9421	5189.0521
		5200	18.097	5190.9185	5209.0155
		5240	18.106	5230.8973	5249.0033
11AC40SISO	Ant1	5190	36.939	5171.6286	5208.5676
		5230	37.042	5211.4876	5248.5296
11AC80SISO	Ant1	5210	75.160	5172.6376	5247.7976

Test Graphs





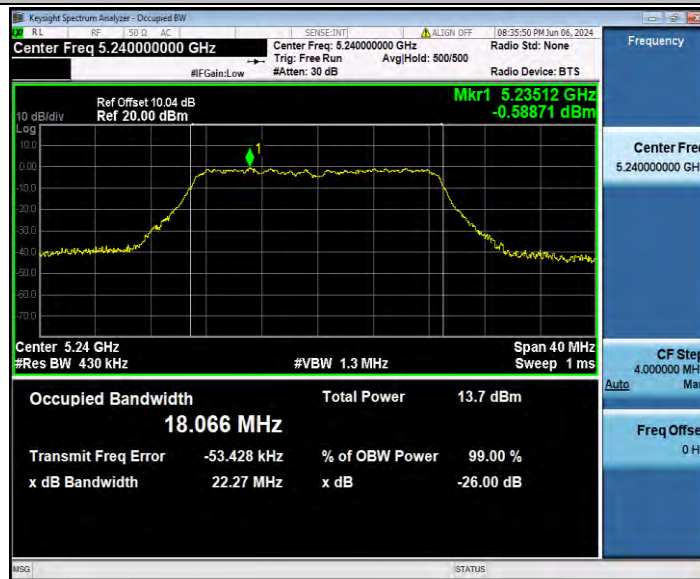
11N20SISO_Ant1_5180



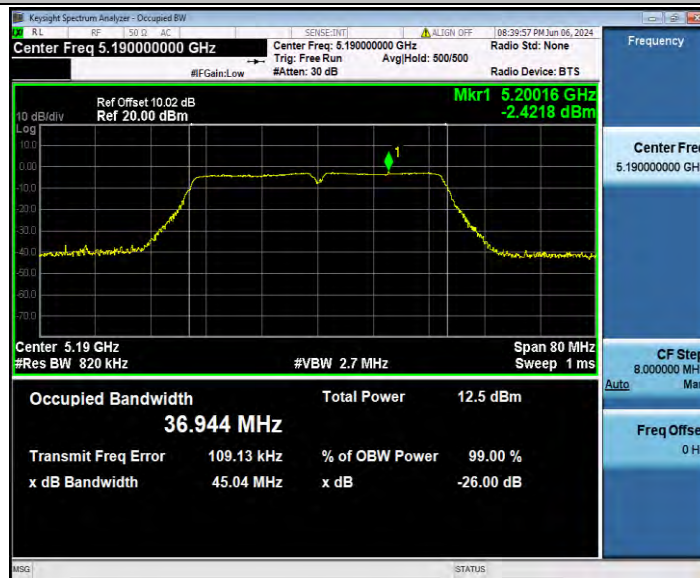
11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



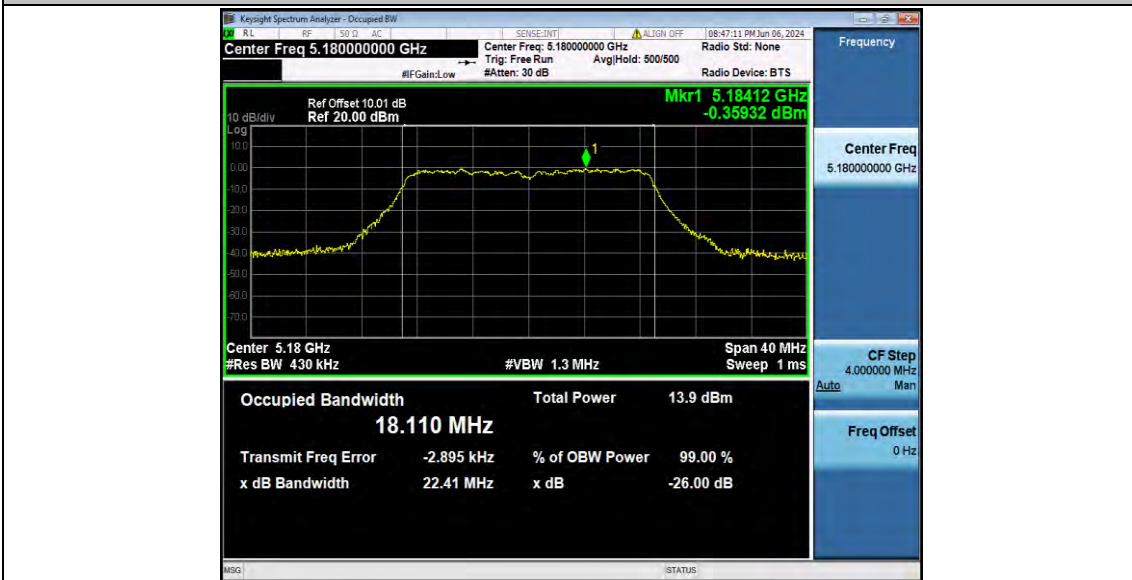
11N40SISO_Ant1_5190



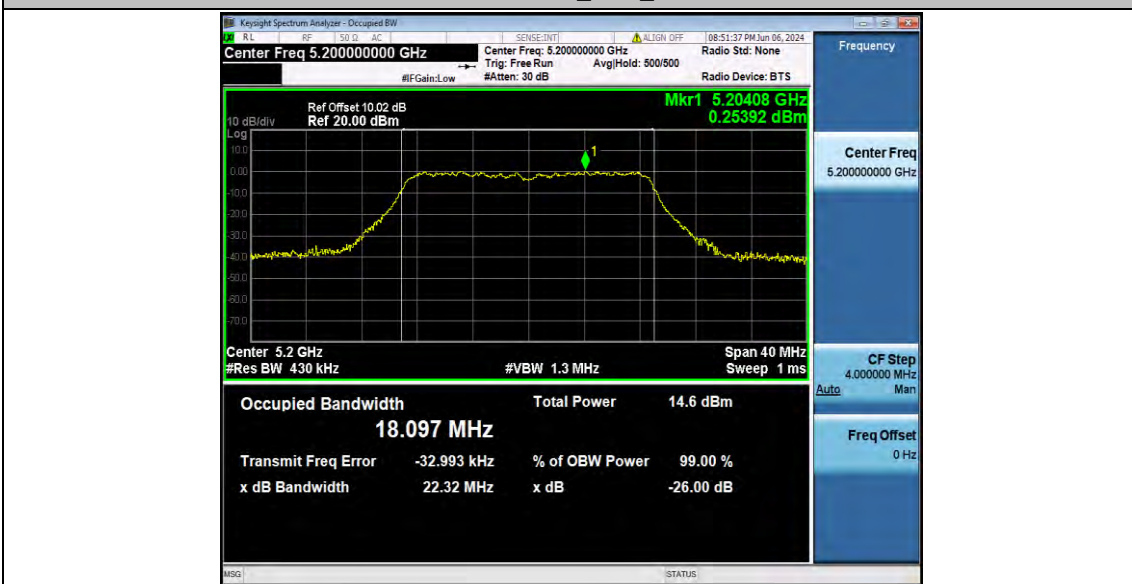
11N40SISO_Ant1_5230



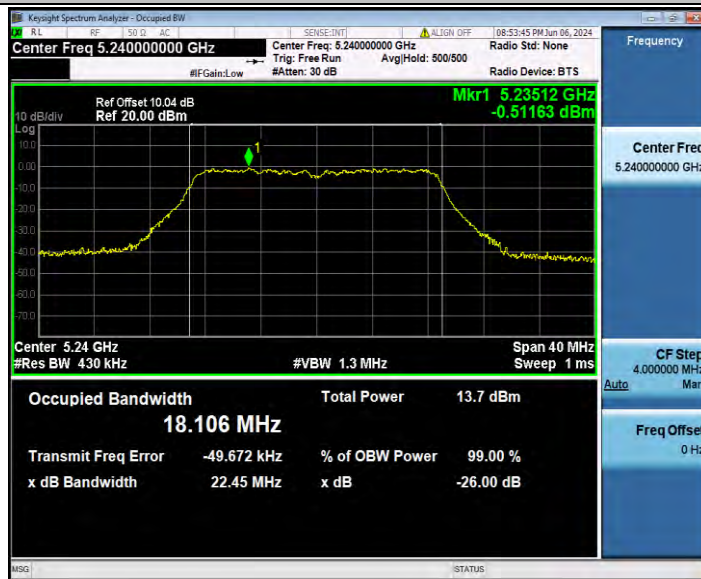
11AC20SISO_Ant1_5180



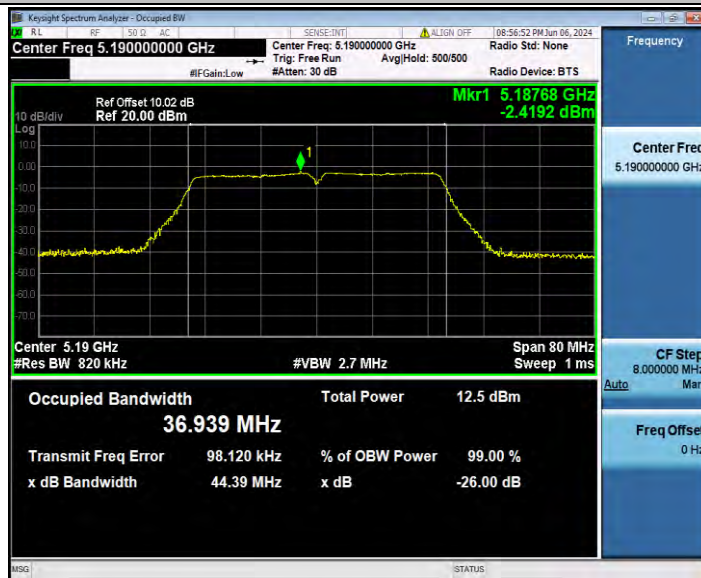
11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



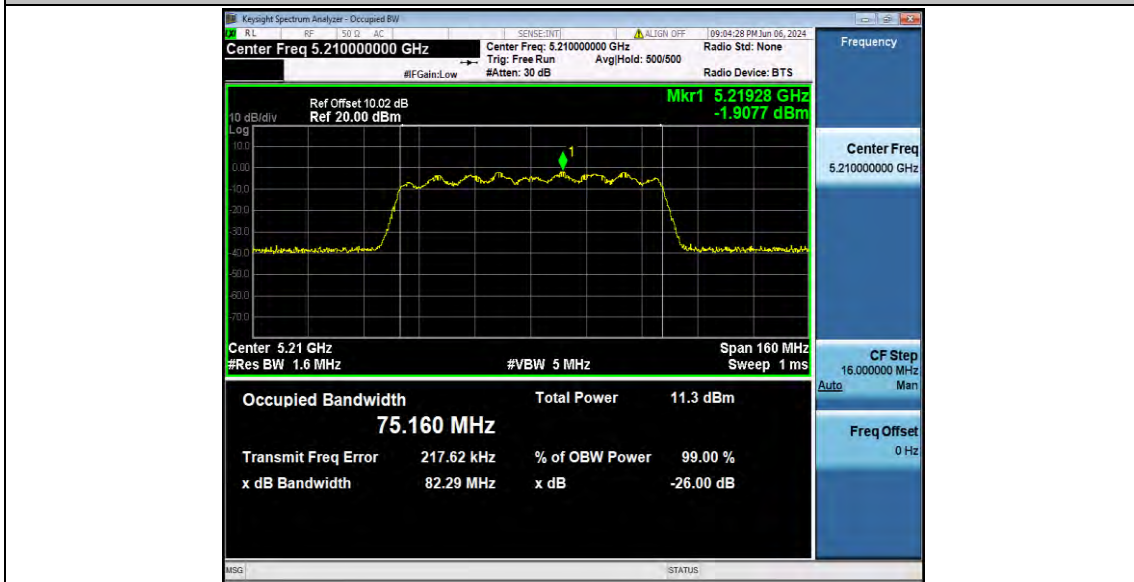
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210

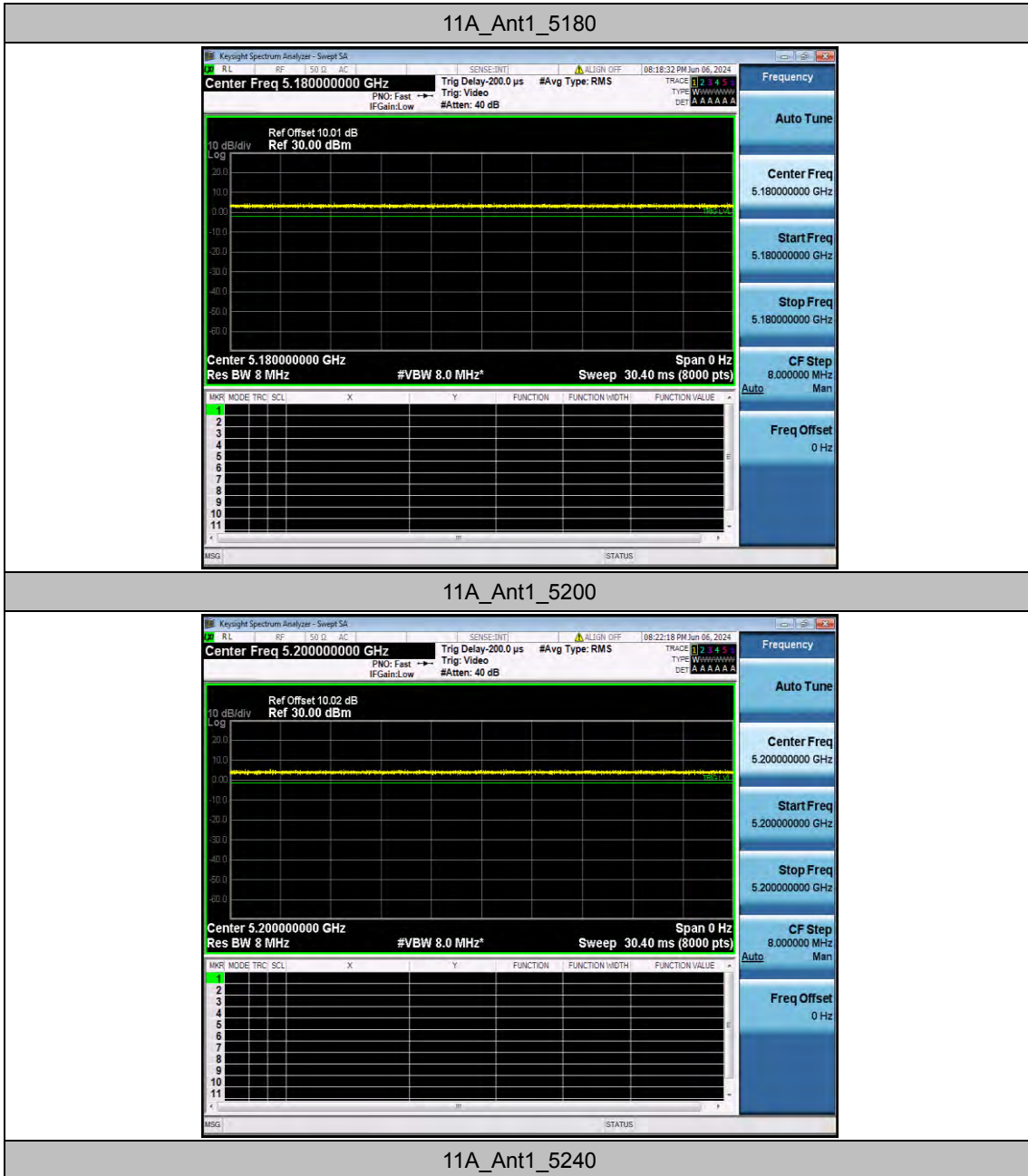


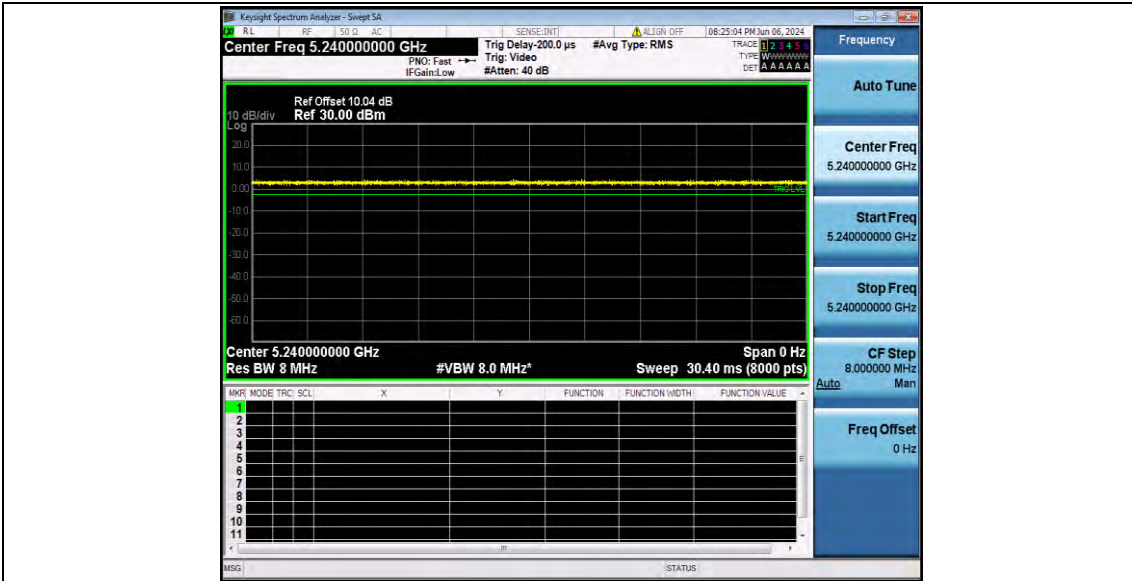
Appendix D.3: Duty Cycle

Test Result

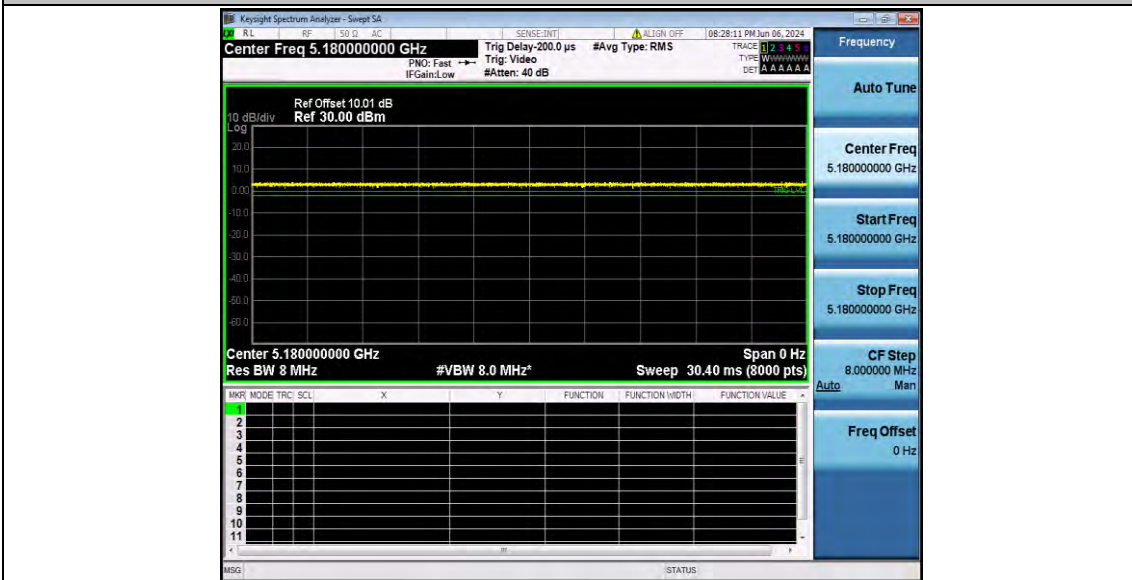
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5180	30.00	30.00	100.00	0.00	0.03
		5200	30.00	30.00	100.00	0.00	0.03
		5240	30.00	30.00	100.00	0.00	0.03
11N20SISO	Ant1	5180	30.00	30.00	100.00	0.00	0.03
		5200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

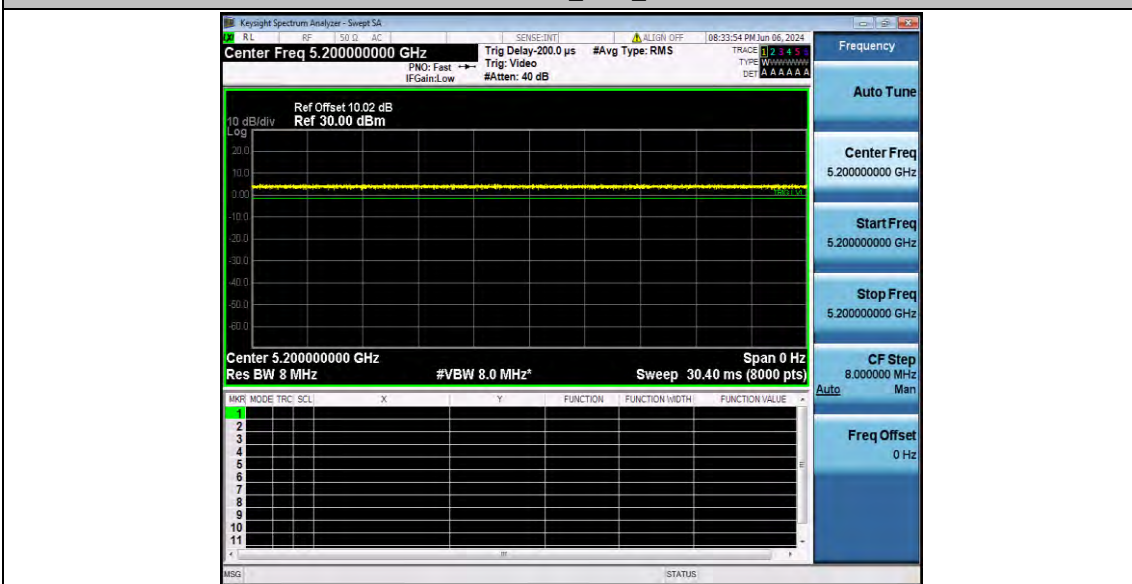




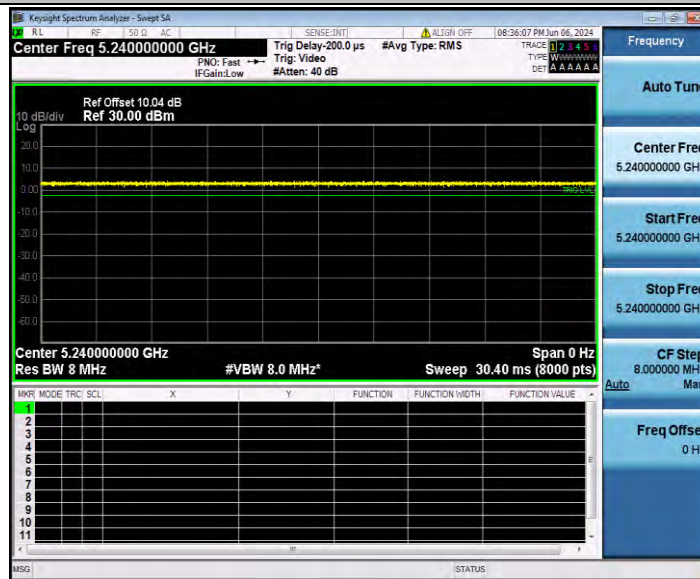
11N20SISO_Ant1_5180



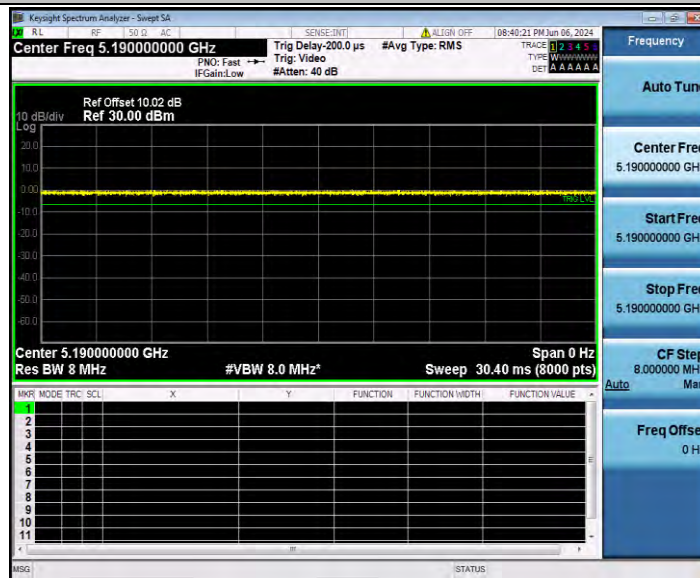
11N20SISO_Ant1_5200



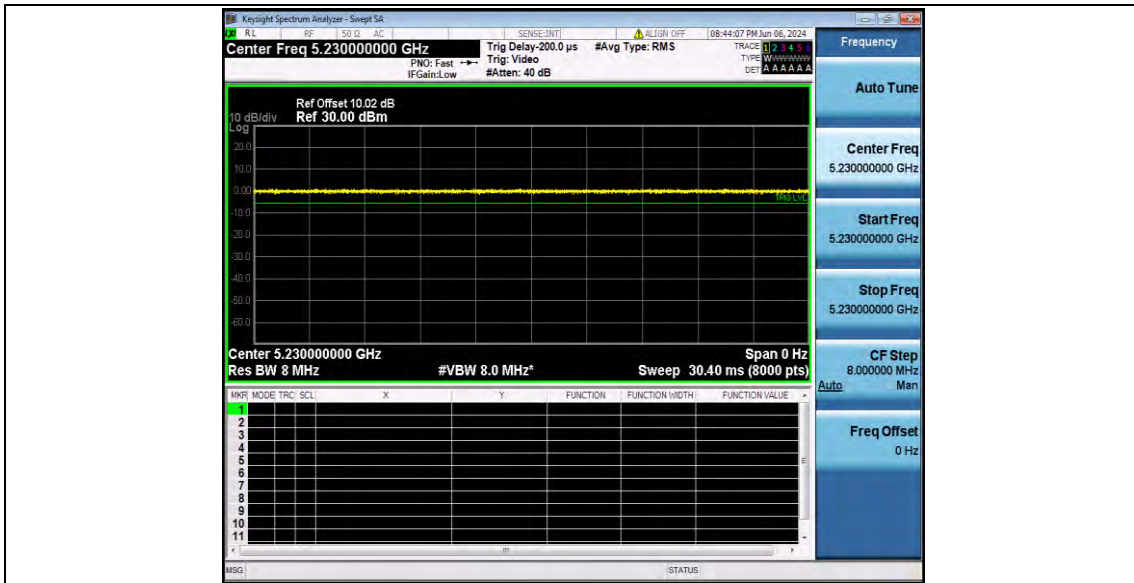
11N20SISO_Ant1_5240



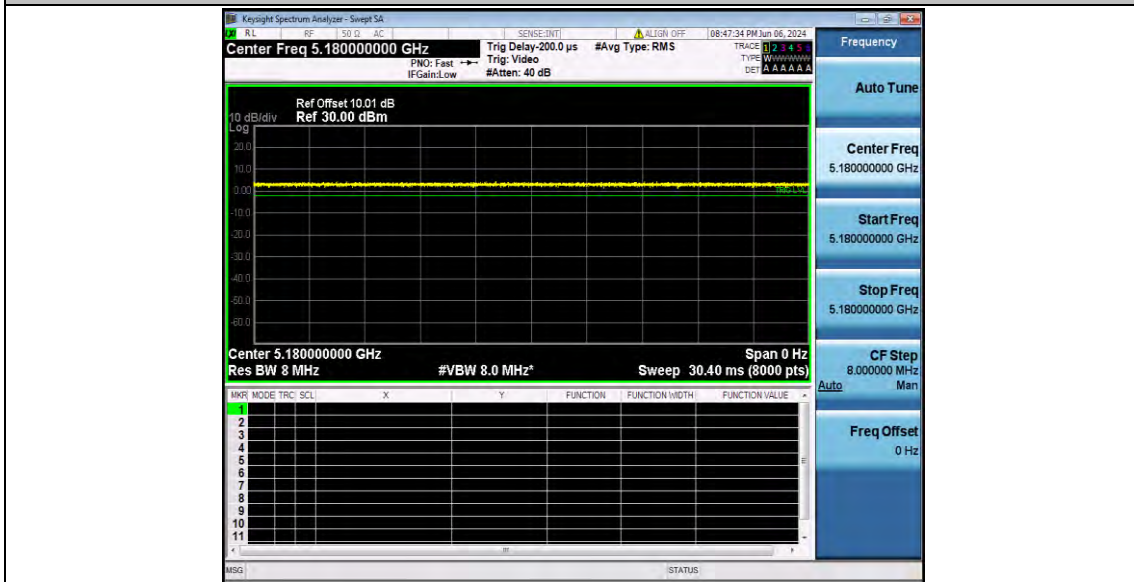
11N40SISO_Ant1_5190



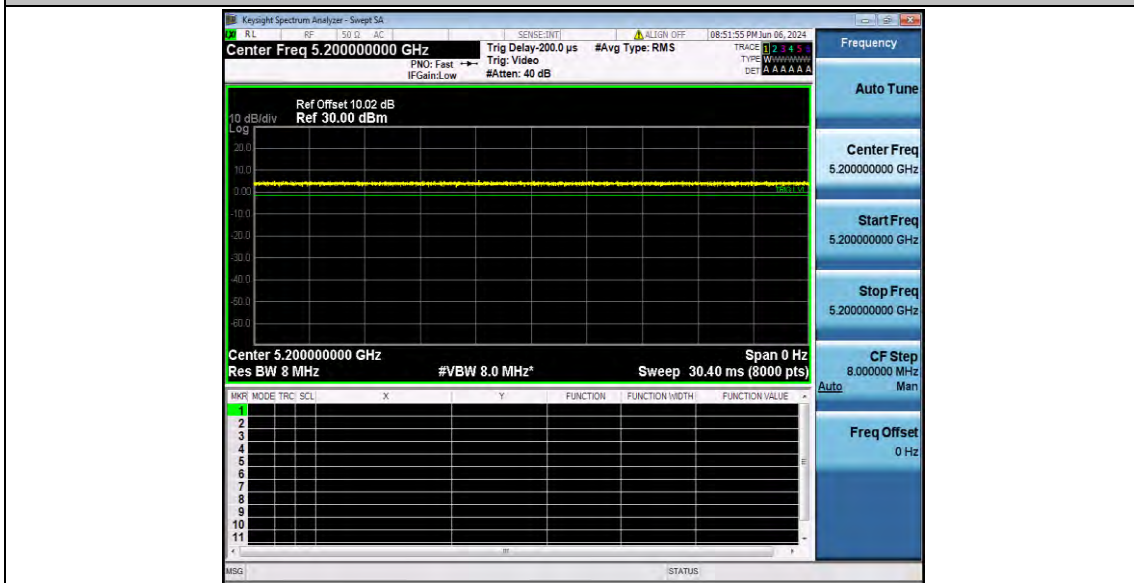
11N40SISO_Ant1_5230



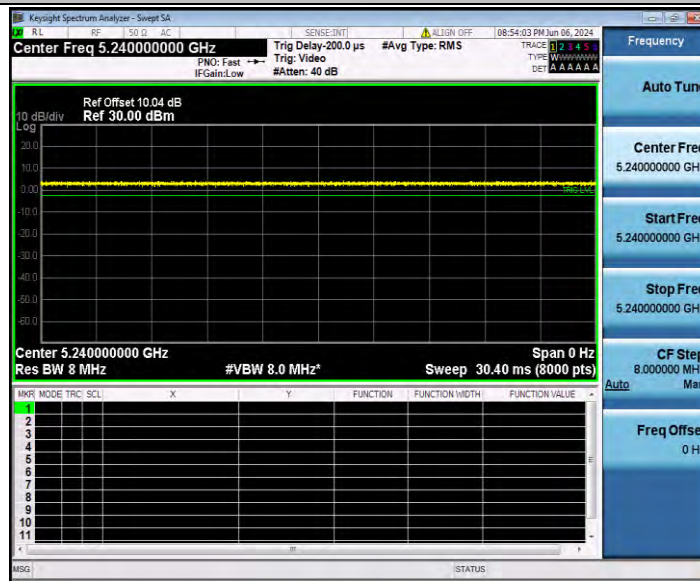
11AC20SISO_Ant1_5180



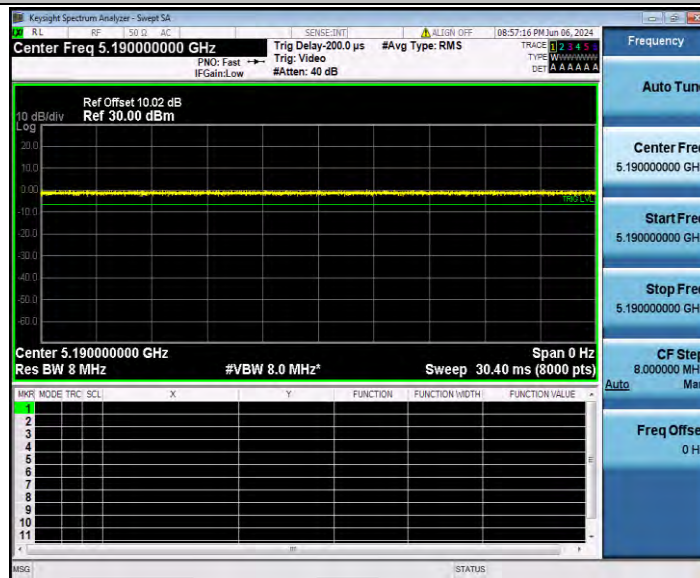
11AC20SISO_Ant1_5200



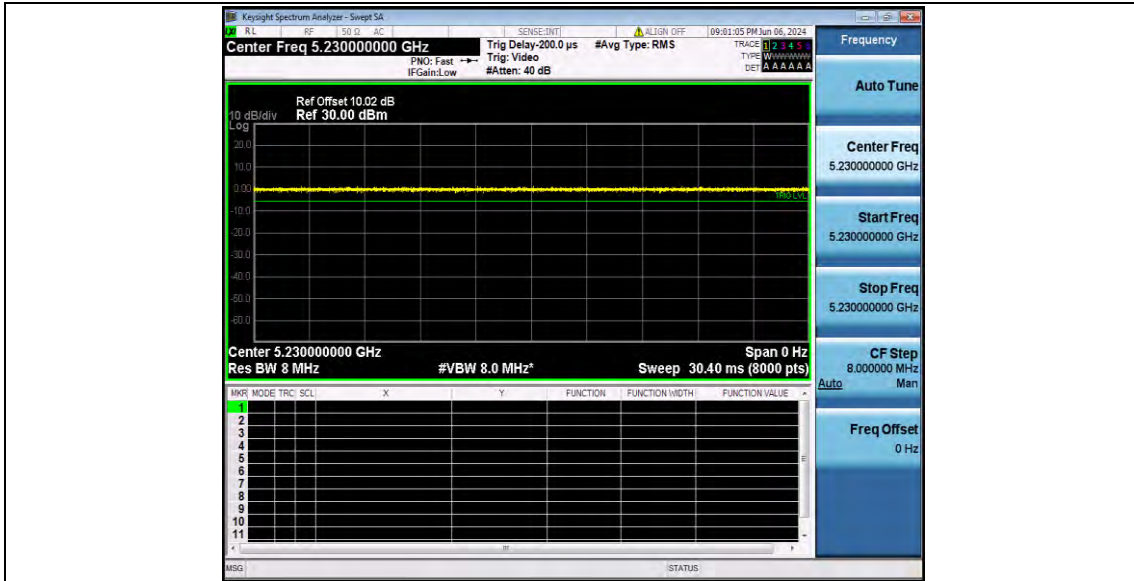
11AC20SISO_Ant1_5240



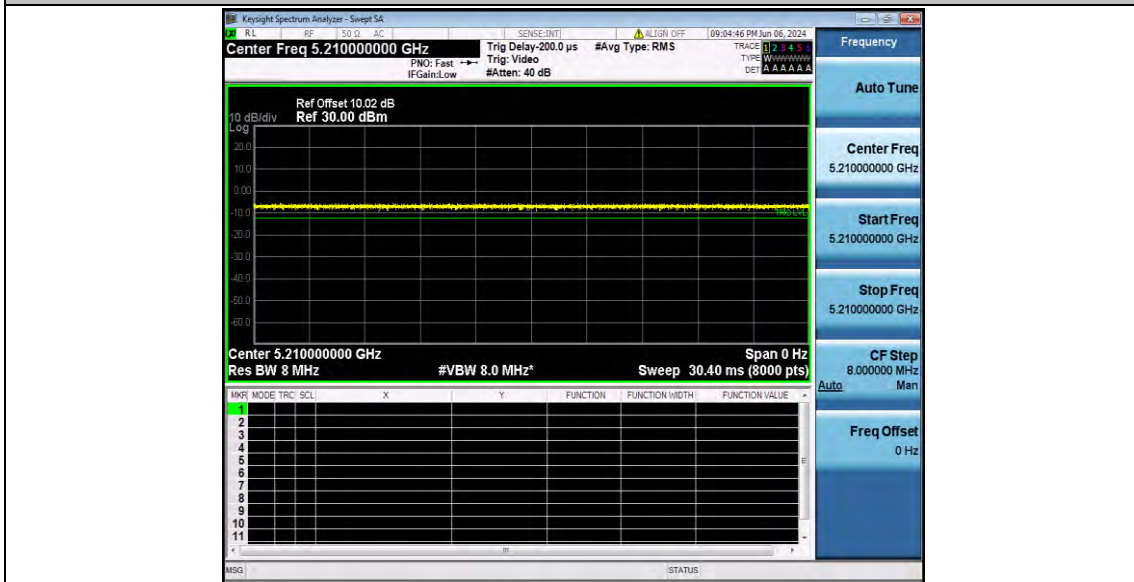
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



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	7.07	100.00	7.07	≤23.98	PASS
		5200	7.75	100.00	7.75	≤23.98	PASS
		5240	6.61	100.00	6.61	≤23.98	PASS
11N20SISO	Ant1	5180	7.18	100.00	7.18	≤23.98	PASS
		5200	7.94	100.00	7.94	≤23.98	PASS
		5240	6.98	100.00	6.98	≤23.98	PASS
11N40SISO	Ant1	5190	5.35	100.00	5.35	≤23.98	PASS
		5230	6.51	100.00	6.51	≤23.98	PASS
11AC20SISO	Ant1	5180	7.17	100.00	7.17	≤23.98	PASS
		5200	7.98	100.00	7.98	≤23.98	PASS
		5240	6.98	100.00	6.98	≤23.98	PASS
11AC40SISO	Ant1	5190	5.27	100.00	5.27	≤23.98	PASS
		5230	6.43	100.00	6.43	≤23.98	PASS
11AC80SISO	Ant1	5210	2.47	100.00	2.47	≤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.

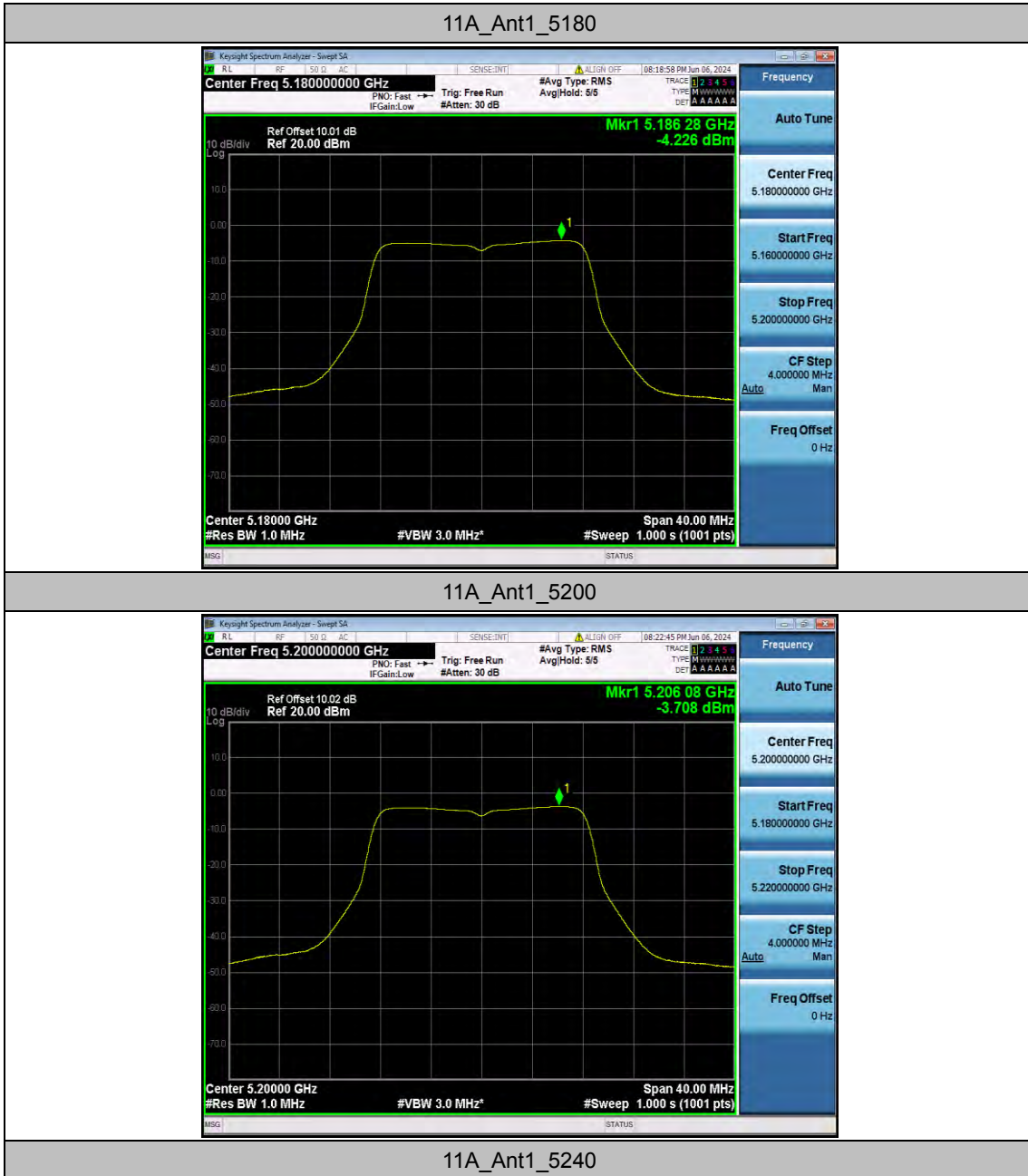
Appendix D.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-4.23	≤11.00	PASS
		5200	-3.71	≤11.00	PASS
		5240	-4.78	≤11.00	PASS
11N20SISO	Ant1	5180	-4.49	≤11.00	PASS
		5200	-3.81	≤11.00	PASS
		5240	-4.77	≤11.00	PASS
11N40SISO	Ant1	5190	-9.13	≤11.00	PASS
		5230	-8.11	≤11.00	PASS
11AC20SISO	Ant1	5180	-4.47	≤11.00	PASS
		5200	-3.75	≤11.00	PASS
		5240	-4.75	≤11.00	PASS
11AC40SISO	Ant1	5190	-9.21	≤11.00	PASS
		5230	-8.21	≤11.00	PASS
11AC80SISO	Ant1	5210	-13.73	≤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





11N20SISO_Ant1_5180



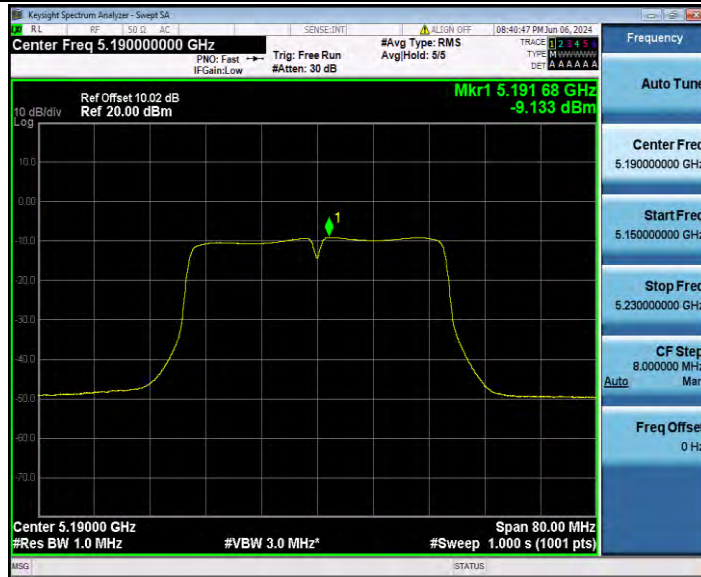
11N20SISO_Ant1_5200



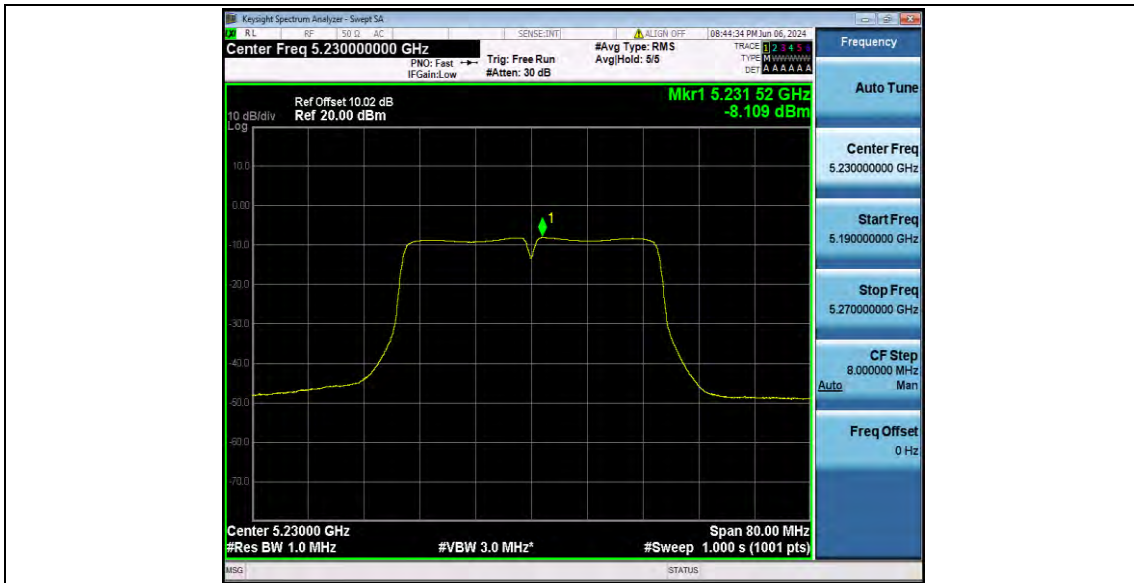
11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



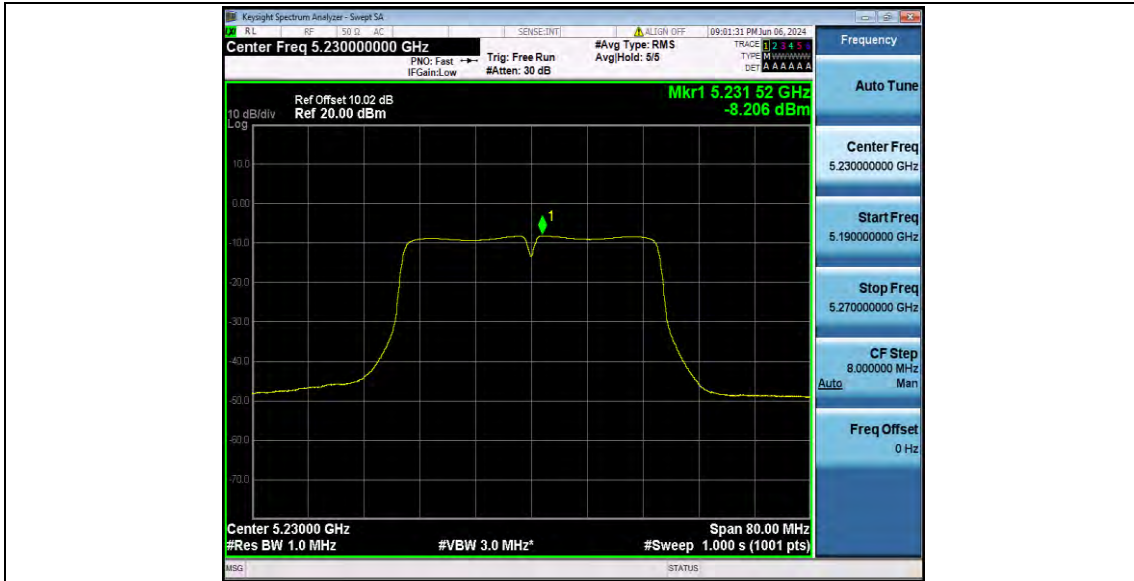
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210

