

Case No. : <u>GTS20231120007-1-5</u>
Ambient Condition: <u>23</u> °C, <u>48</u> %RH
According Standard: <u>■Part15E</u>
Test Date: <u>2024.1.11</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	21.840	5168.840	5190.680	---	---
		5200	22.040	5188.800	5210.840	---	---
		5240	22.000	5228.880	5250.880	---	---
11N20SISO	Ant1	5180	25.720	5168.080	5193.800	---	---
		5200	22.760	5188.360	5211.120	---	---
		5240	22.600	5228.760	5251.360	---	---
11N40SISO	Ant1	5190	44.560	5167.600	5212.160	---	---
		5230	44.240	5207.840	5252.080	---	---
11AC20SISO	Ant1	5180	23.000	5168.360	5191.360	---	---
		5200	22.720	5188.560	5211.280	---	---
		5240	23.040	5228.800	5251.840	---	---
11AC40SISO	Ant1	5190	44.080	5167.840	5211.920	---	---
		5230	44.400	5207.760	5252.160	---	---
11AC80SISO	Ant1	5210	84.000	5168.080	5252.080	---	---

Test Graphs





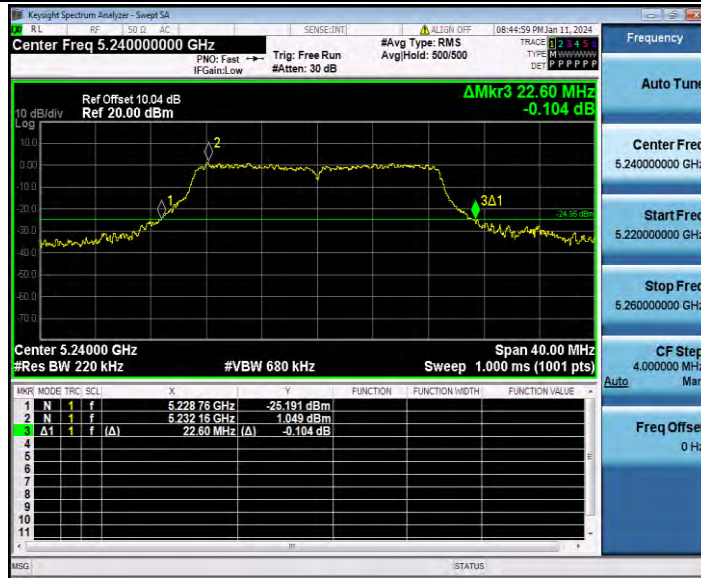
11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



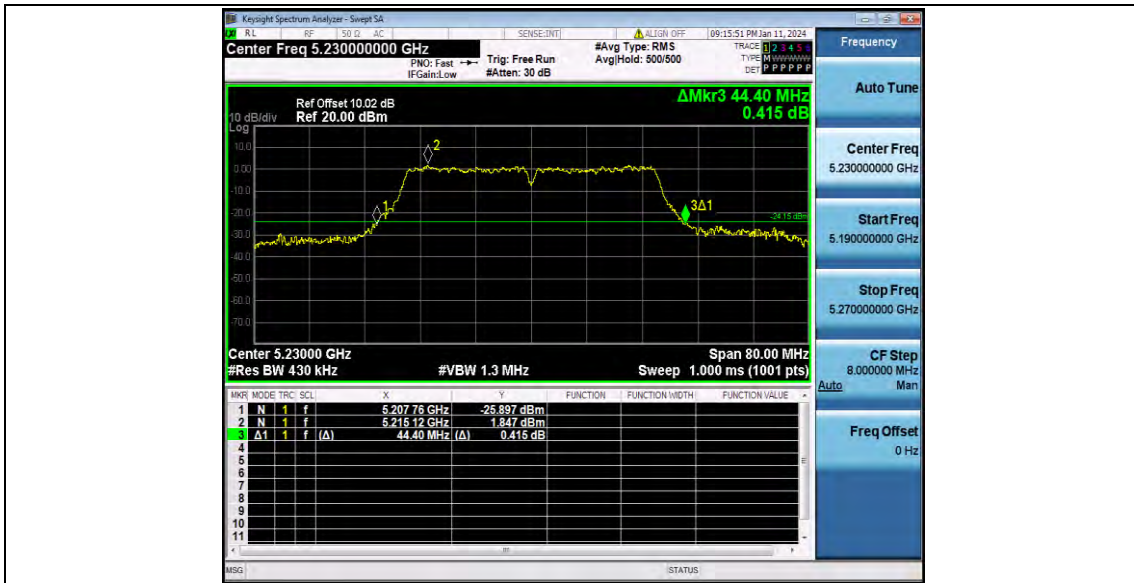
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210

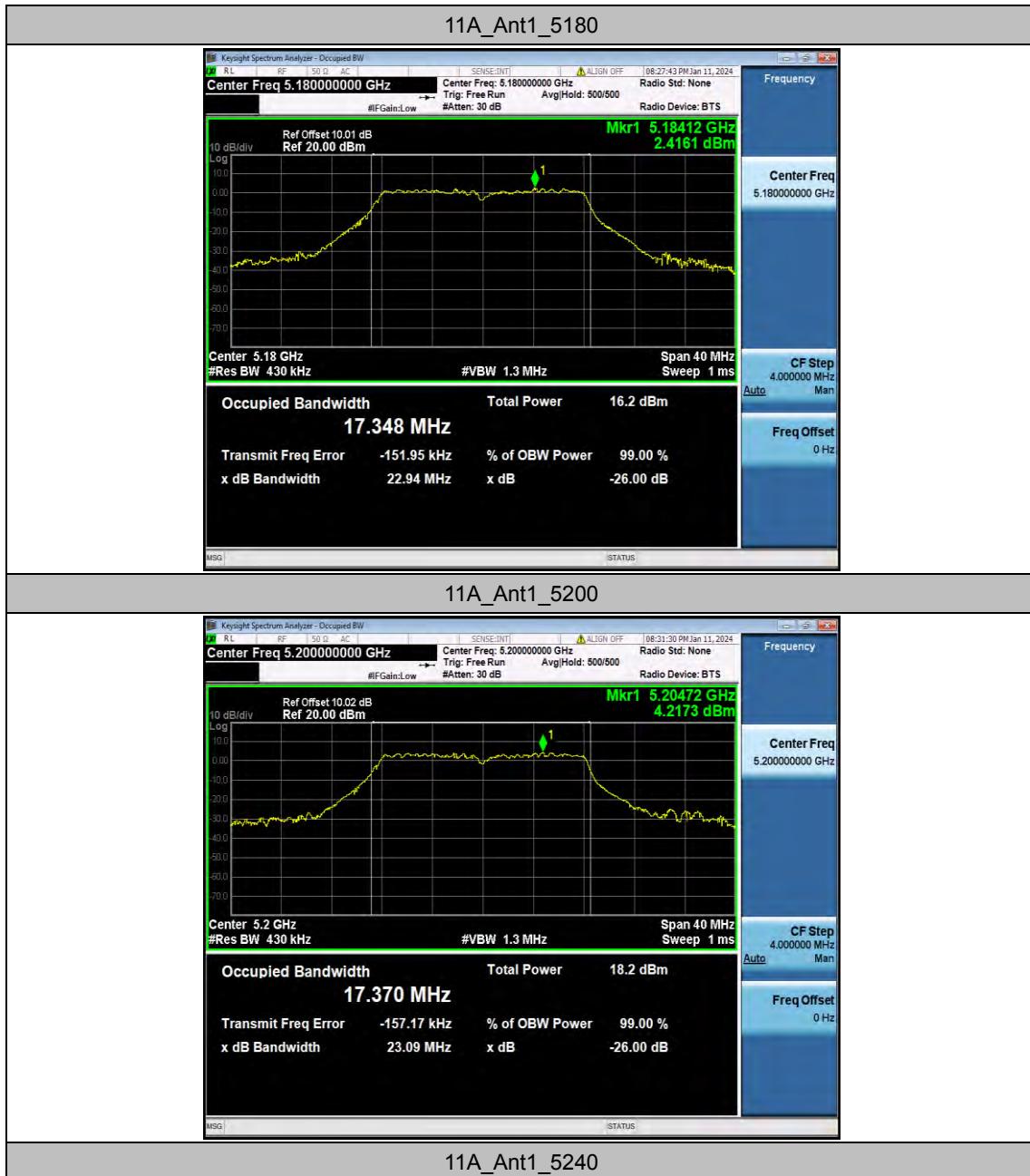


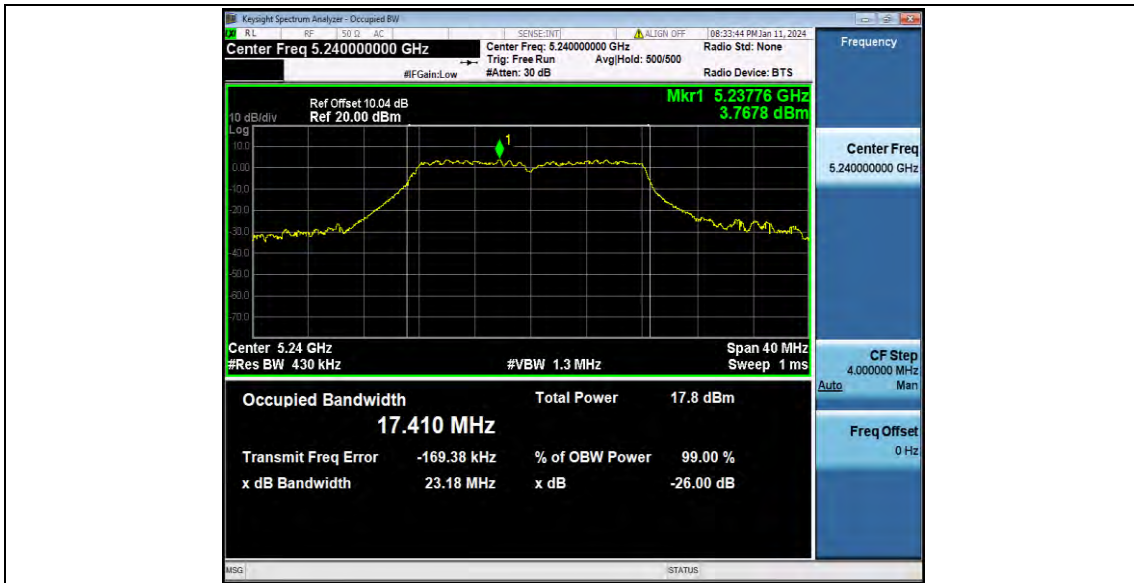
Appendix D.2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.348	5171.1741	5188.5221	---	---
		5200	17.370	5191.1578	5208.5278	---	---
		5240	17.410	5231.1256	5248.5356	---	---
11N20SISO	Ant1	5180	18.560	5170.7122	5189.2722	---	---
		5200	18.362	5190.7732	5209.1352	---	---
		5240	18.382	5230.7567	5249.1387	---	---
11N40SISO	Ant1	5190	37.383	5171.3401	5208.7231	---	---
		5230	37.408	5211.2686	5248.6766	---	---
11AC20SISO	Ant1	5180	18.352	5170.7805	5189.1325	---	---
		5200	18.326	5190.7897	5209.1157	---	---
		5240	18.343	5230.8096	5249.1526	---	---
11AC40SISO	Ant1	5190	37.341	5171.3980	5208.7390	---	---
		5230	37.451	5211.3270	5248.7780	---	---
11AC80SISO	Ant1	5210	76.257	5171.9344	5248.1914	---	---

Test Graphs





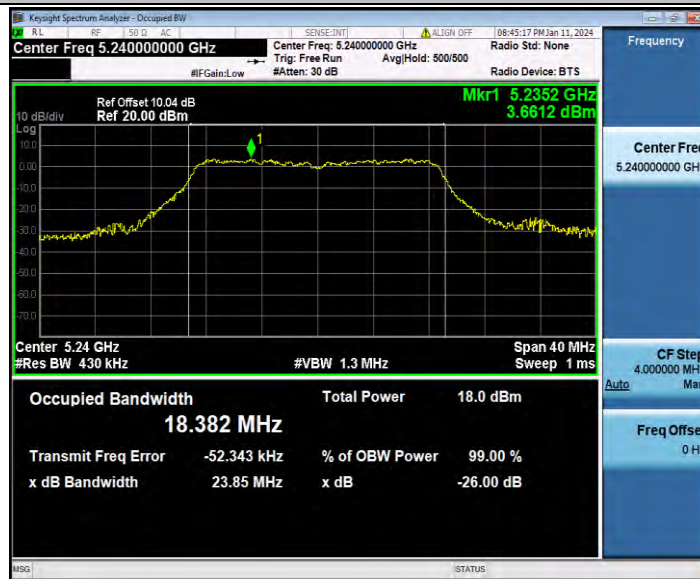
11N20SISO_Ant1_5180



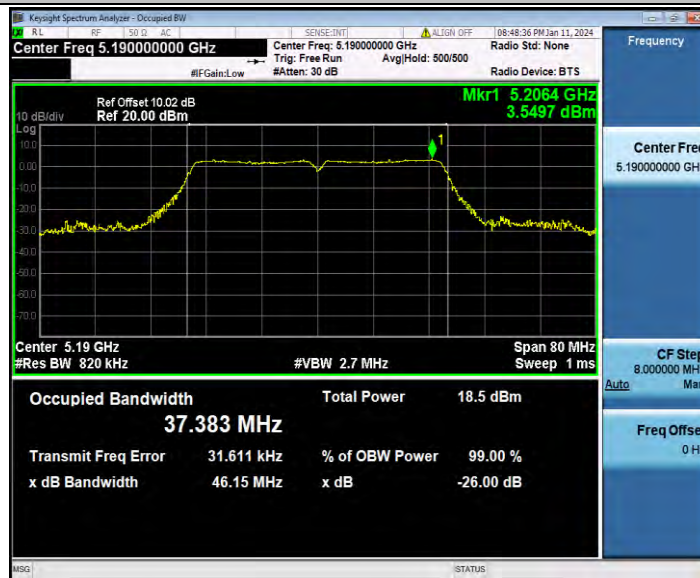
11N20SISO_Ant1_5200



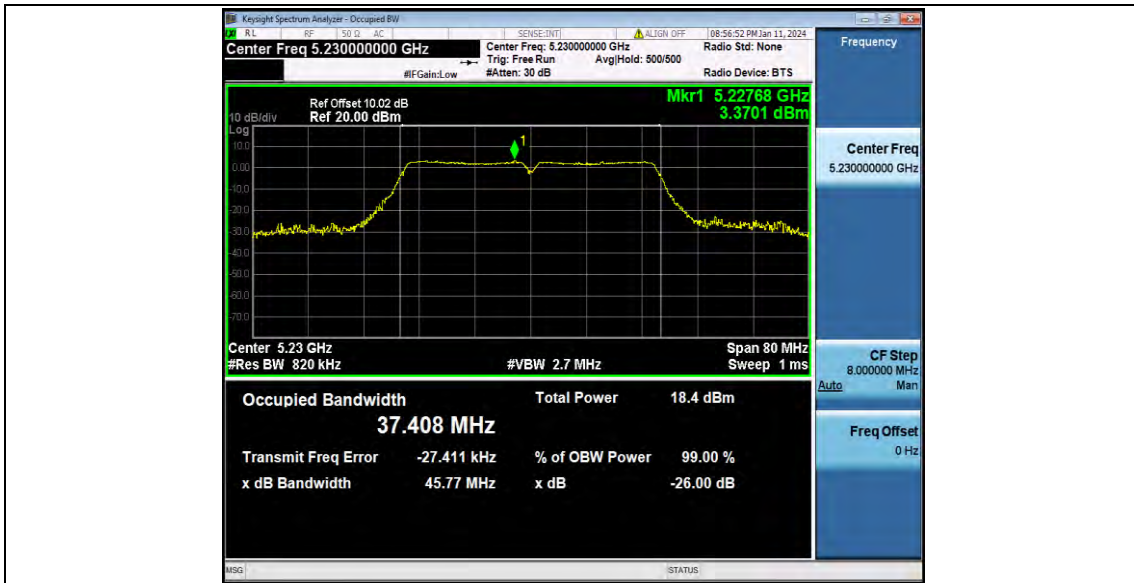
11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



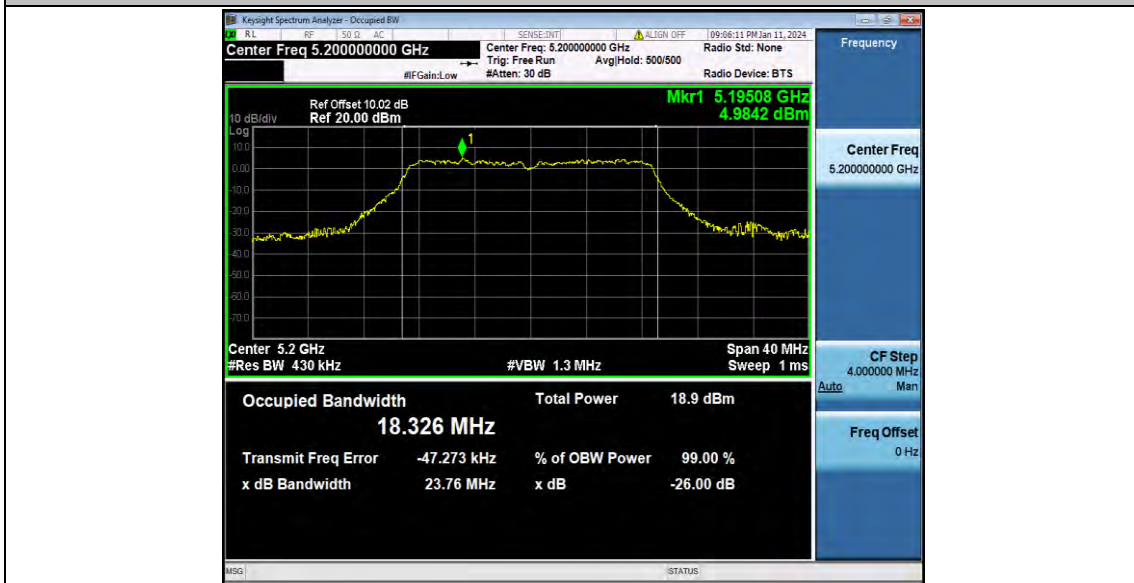
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



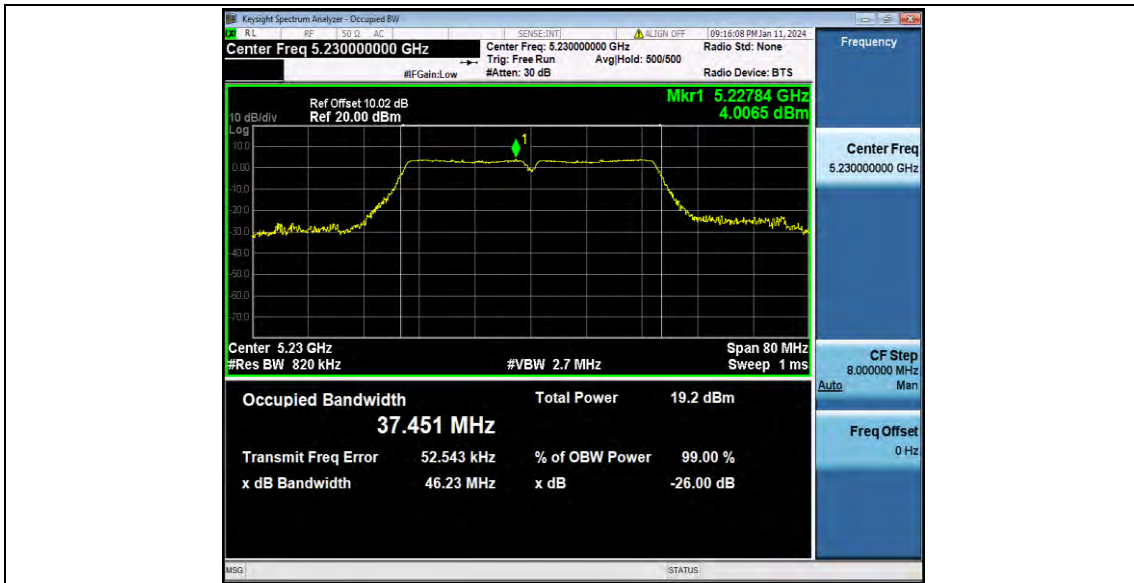
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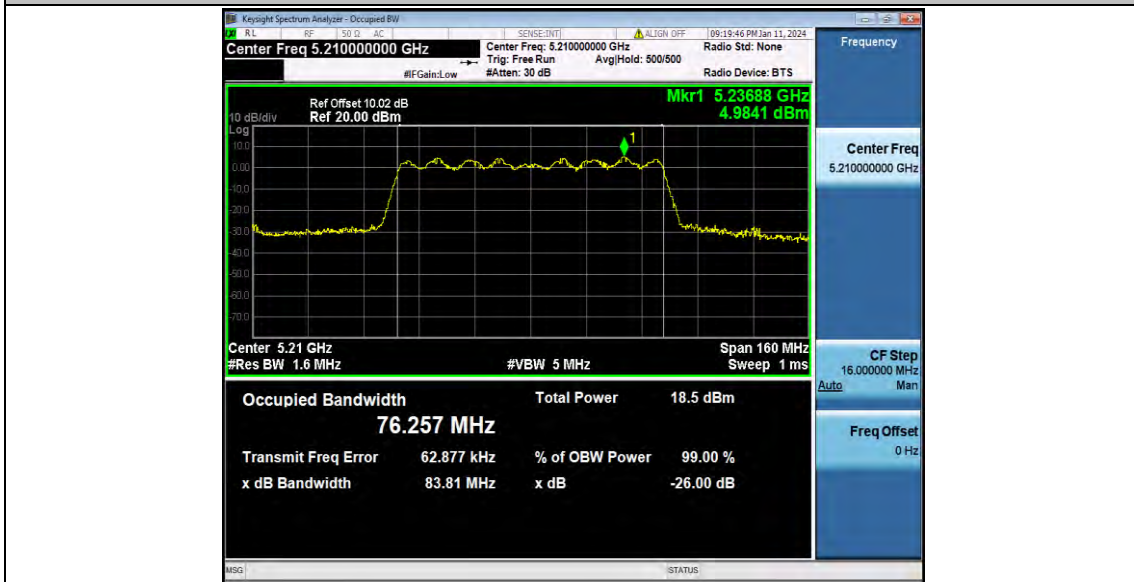
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11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210

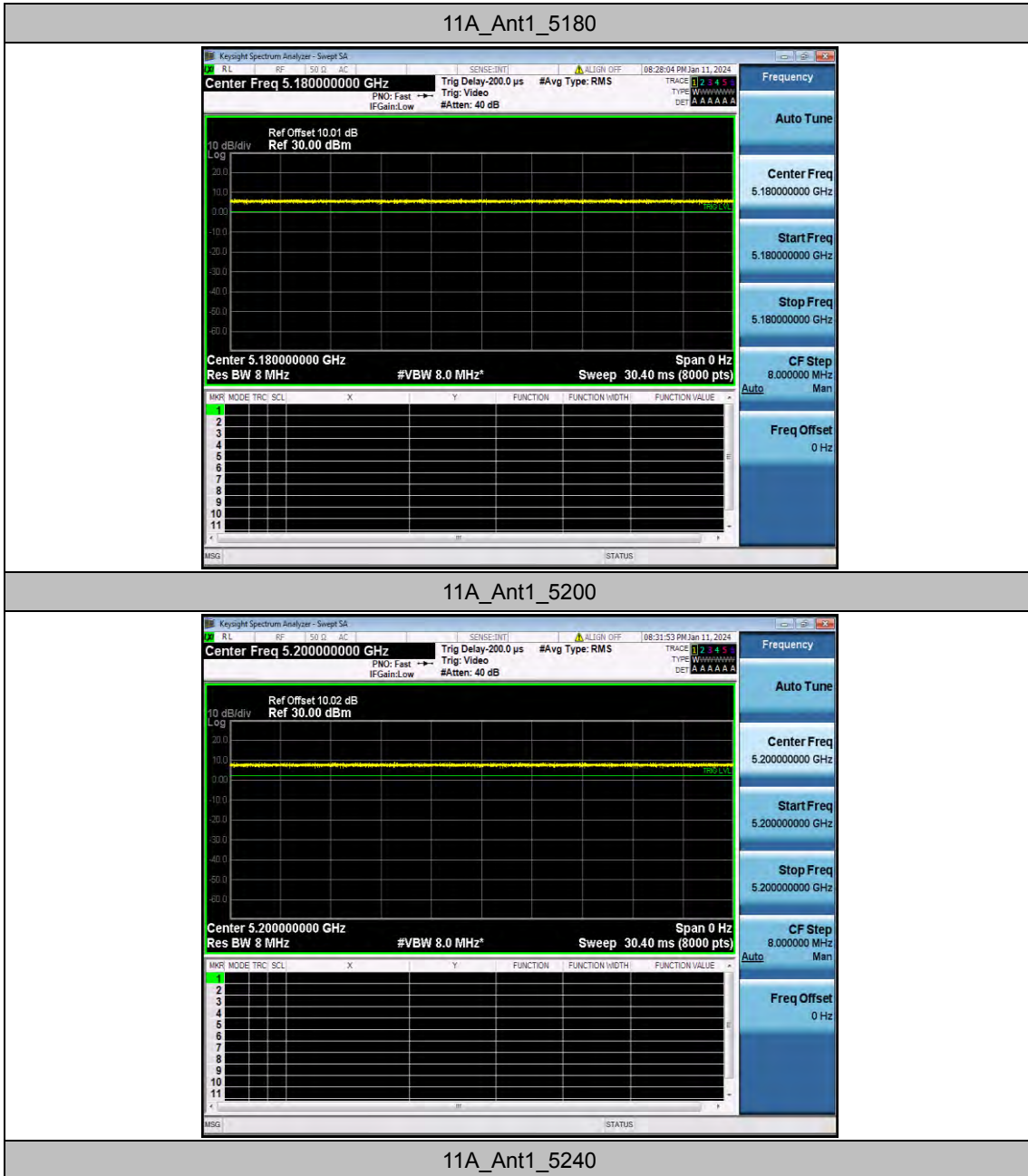


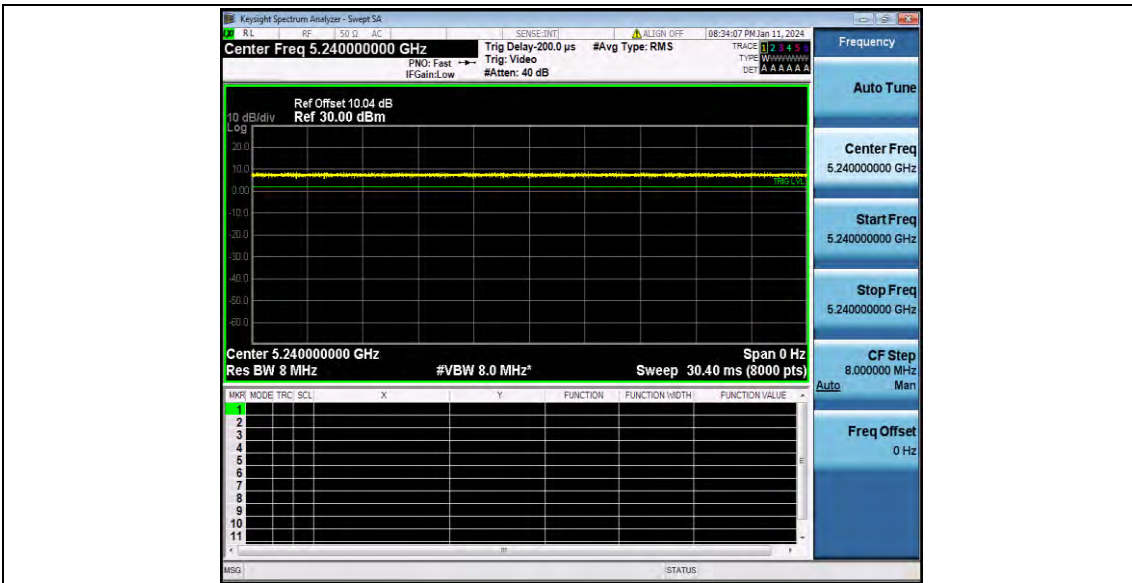
Appendix D.3: Duty Cycle

Test Result

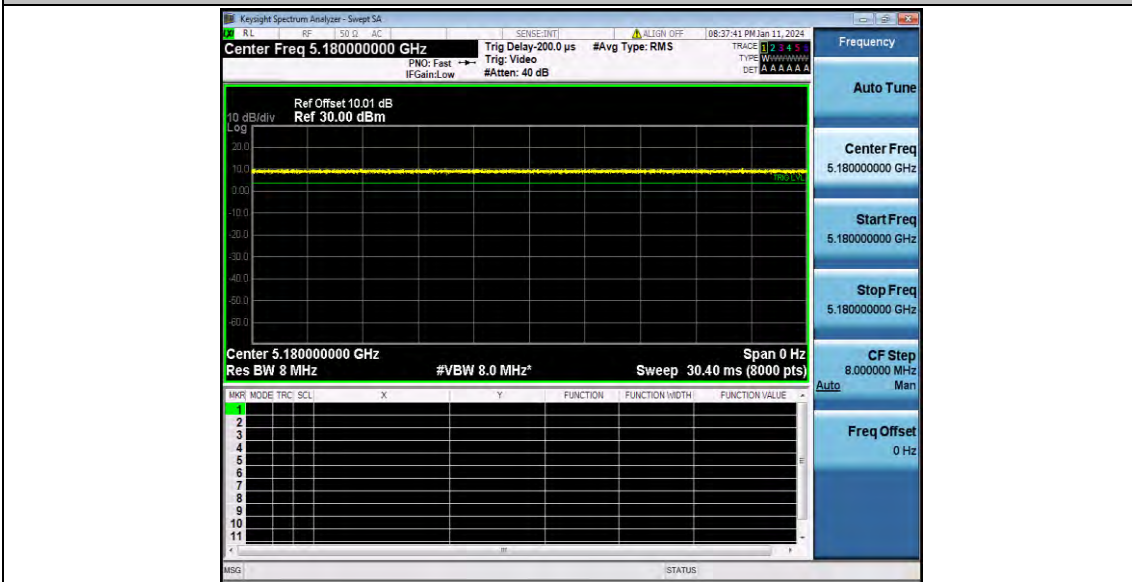
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5180	30.00	30.00	100.00	0.00	0.03
		5200	30.00	30.00	100.00	0.00	0.03
		5240	30.00	30.00	100.00	0.00	0.03
11N20SISO	Ant1	5180	30.00	30.00	100.00	0.00	0.03
		5200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

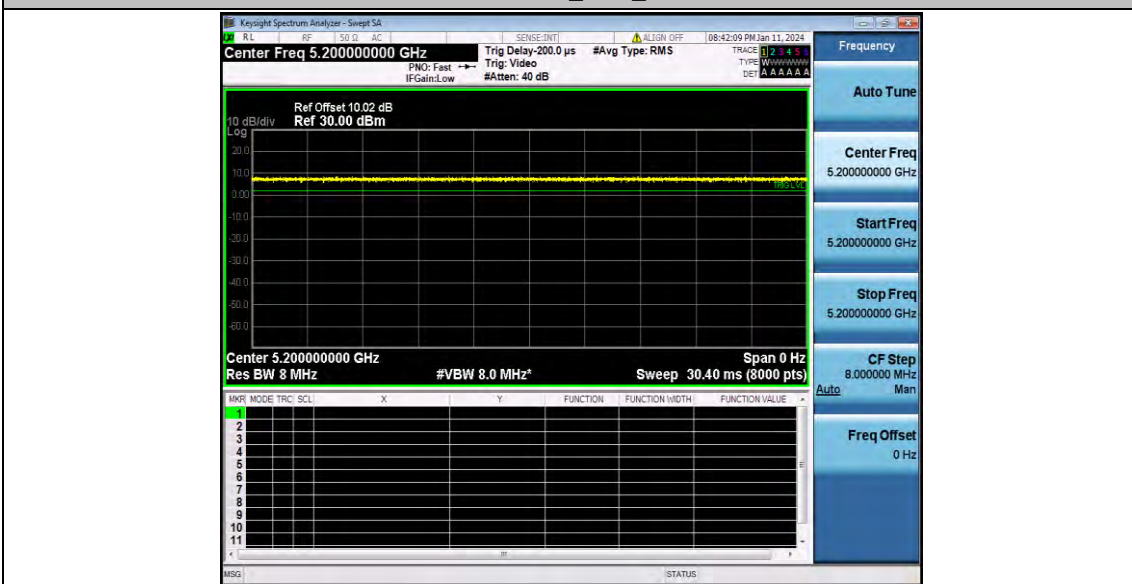




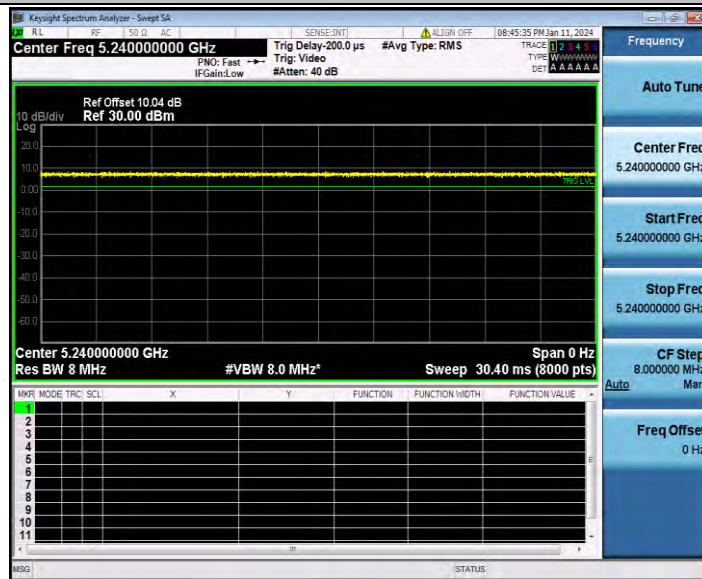
11N20SISO_Ant1_5180



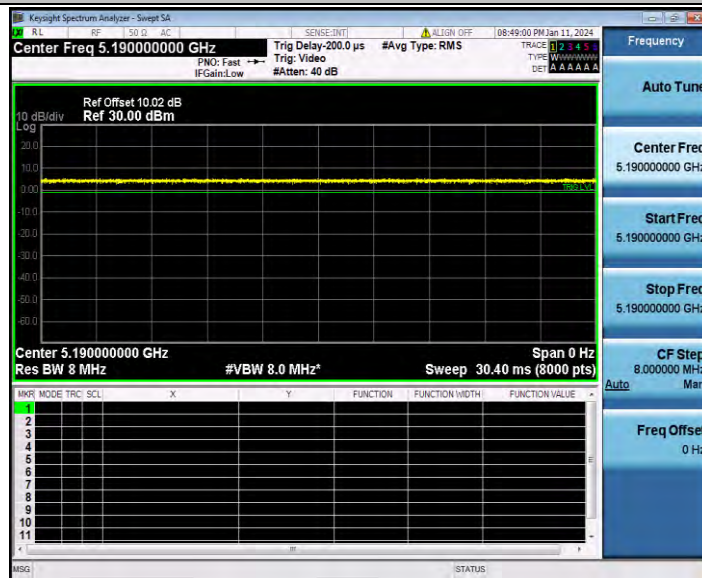
11N20SISO_Ant1_5200



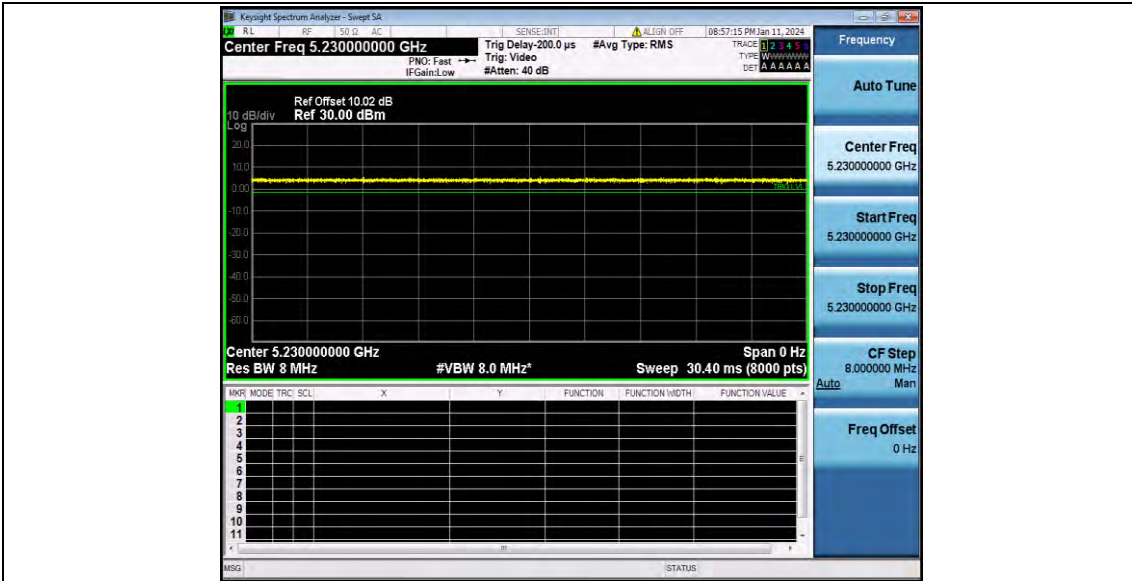
11N20SISO_Ant1_5240



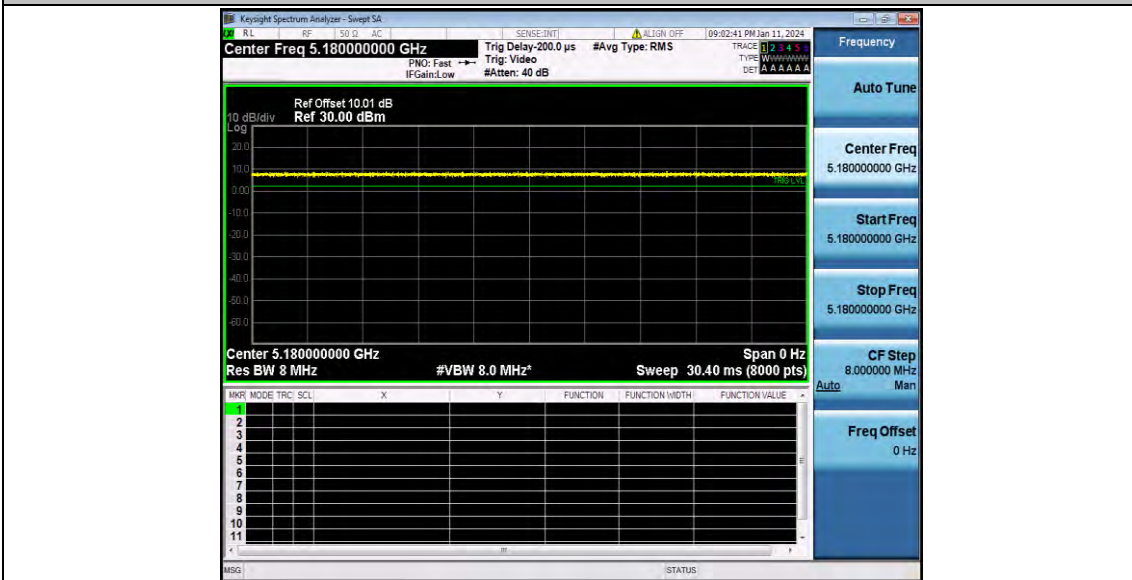
11N40SISO_Ant1_5190



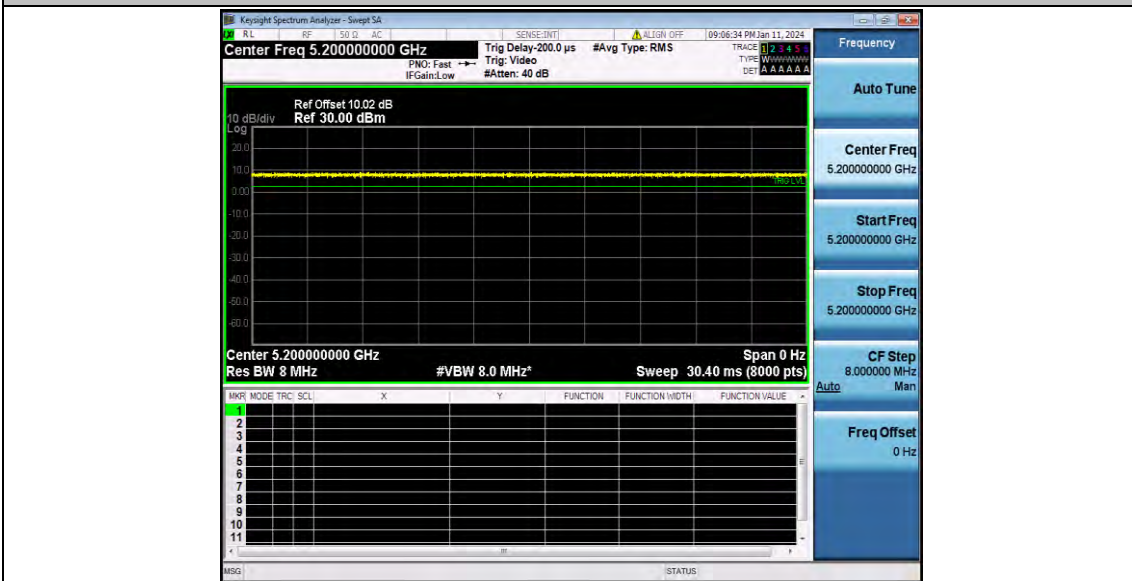
11N40SISO_Ant1_5230



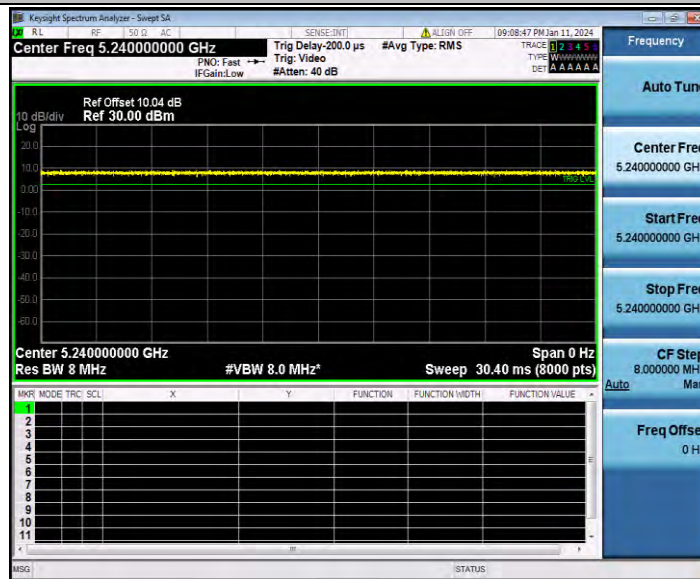
11AC20SISO_Ant1_5180



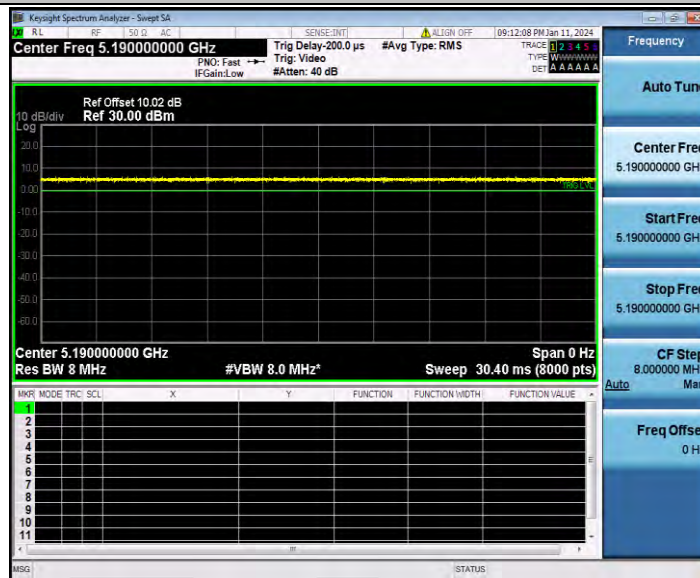
11AC20SISO_Ant1_5200



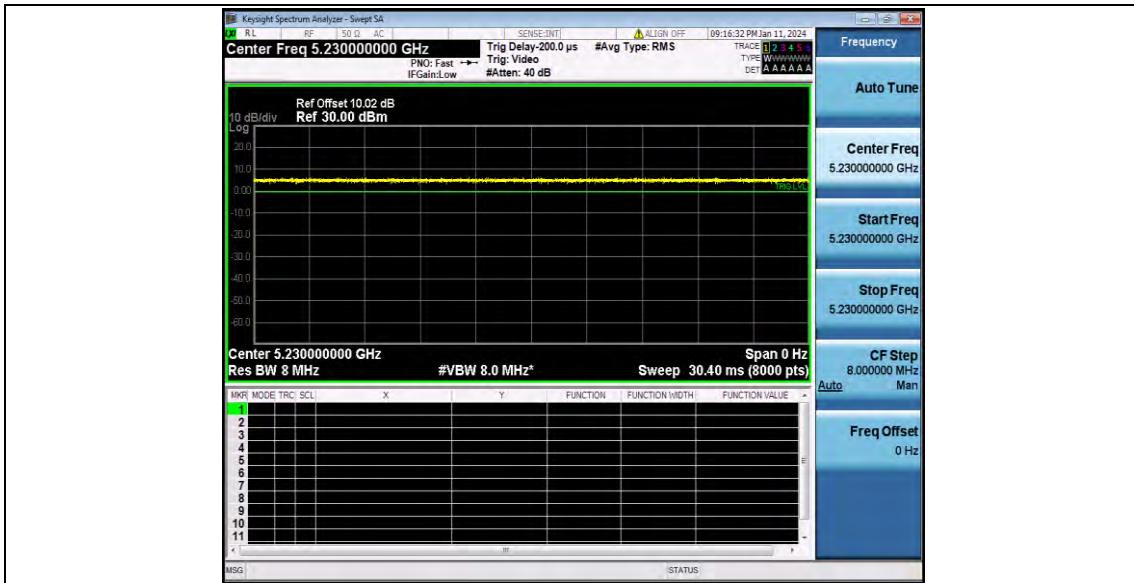
11AC20SISO_Ant1_5240



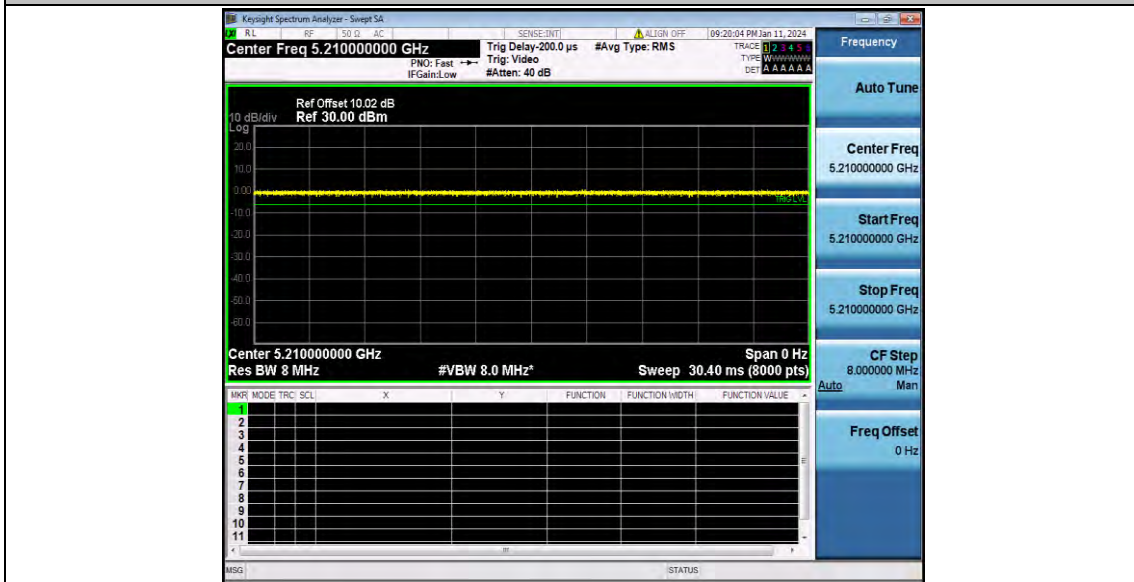
11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210



Appendix D.4: Maximum conducted output power

Test Result

Test Mode	Antenna	Freq (MHz)	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	9.49	100.00	0.00	9.49	≤23.98	PASS
		5200	11.49	100.00	0.00	11.49	≤23.98	PASS
		5240	11.15	100.00	0.00	11.15	≤23.98	PASS
11N20SI SO	Ant1	5180	13.36	100.00	0.00	13.36	≤23.98	PASS
		5200	11.44	100.00	0.00	11.44	≤23.98	PASS
		5240	11.25	100.00	0.00	11.25	≤23.98	PASS
11N40SI SO	Ant1	5190	11.26	100.00	0.00	11.26	≤23.98	PASS
		5230	11.31	100.00	0.00	11.31	≤23.98	PASS
11AC20 SISO	Ant1	5180	11.99	100.00	0.00	11.99	≤23.98	PASS
		5200	12.18	100.00	0.00	12.18	≤23.98	PASS
		5240	12.11	100.00	0.00	12.11	≤23.98	PASS
11AC40 SISO	Ant1	5190	11.93	100.00	0.00	11.93	≤23.98	PASS
		5230	11.98	100.00	0.00	11.98	≤23.98	PASS
11AC80 SISO	Ant1	5210	9.65	100.00	0.00	9.65	≤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 graph.

Appendix D.5: Maximum power spectral density

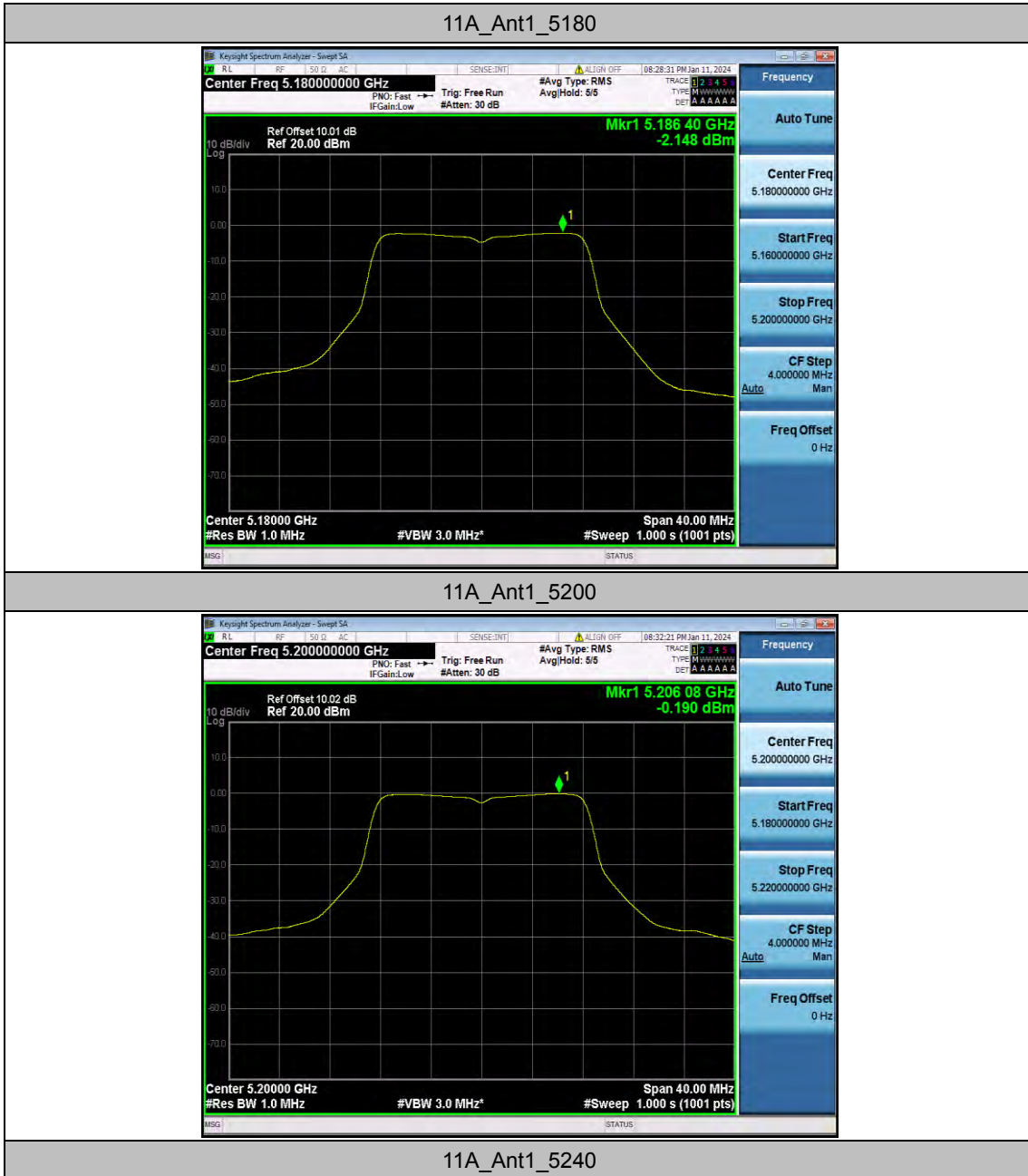
Test Result

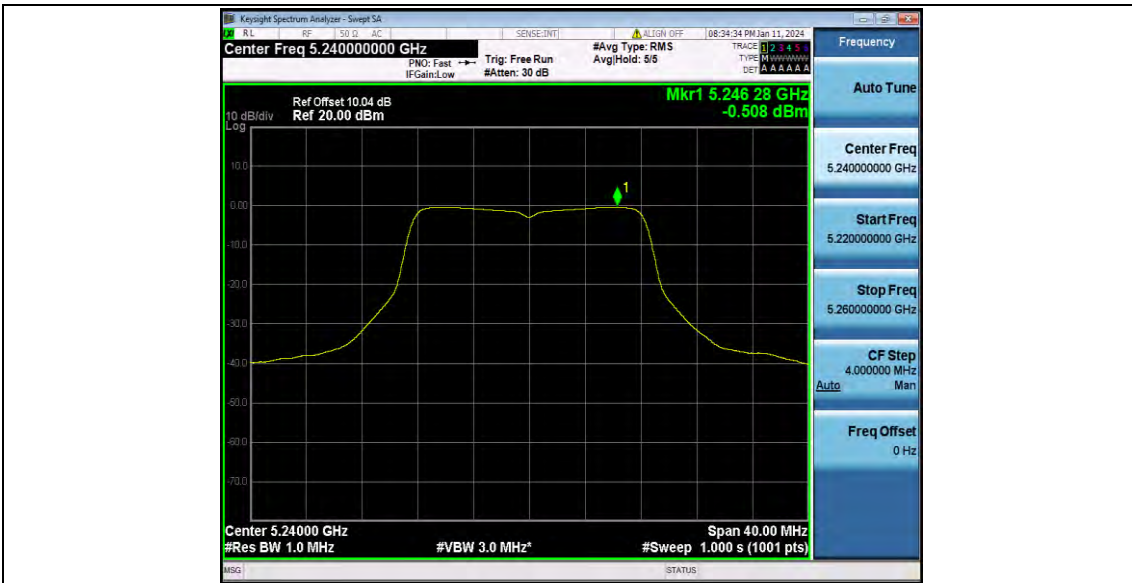
TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-2.15	≤11.00	PASS
		5200	-0.19	≤11.00	PASS
		5240	-0.51	≤11.00	PASS
11N20SISO	Ant1	5180	1.44	≤11.00	PASS
		5200	-0.48	≤11.00	PASS
		5240	-0.62	≤11.00	PASS
11N40SISO	Ant1	5190	-3.39	≤11.00	PASS
		5230	-3.47	≤11.00	PASS
11AC20SISO	Ant1	5180	-0.02	≤11.00	PASS
		5200	0.21	≤11.00	PASS
		5240	0.24	≤11.00	PASS
11AC40SISO	Ant1	5190	-2.70	≤11.00	PASS
		5230	-2.78	≤11.00	PASS
11AC80SISO	Ant1	5210	-7.01	≤11.00	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

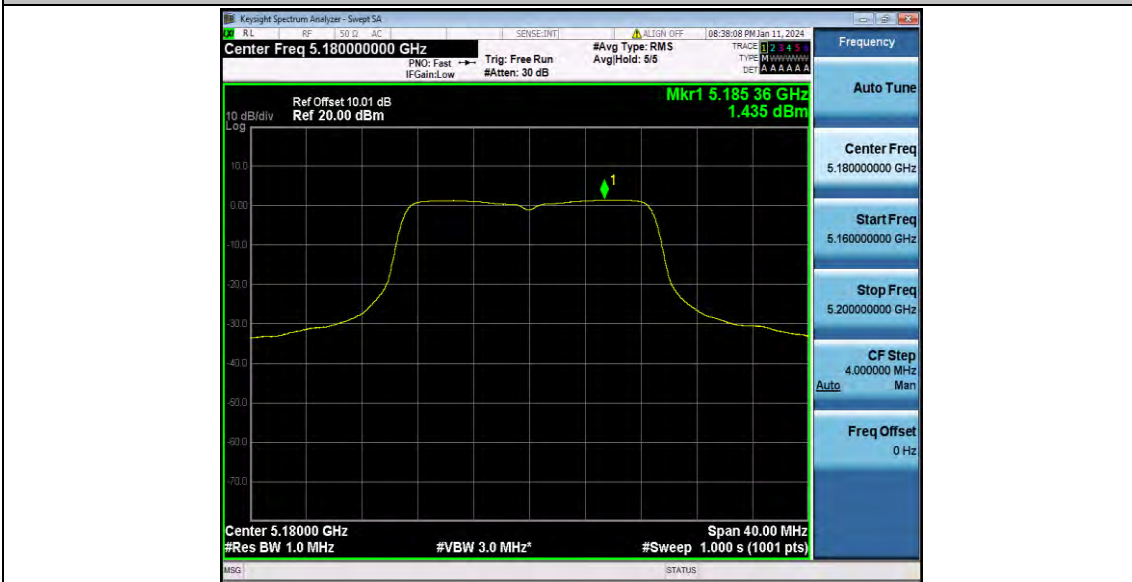
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

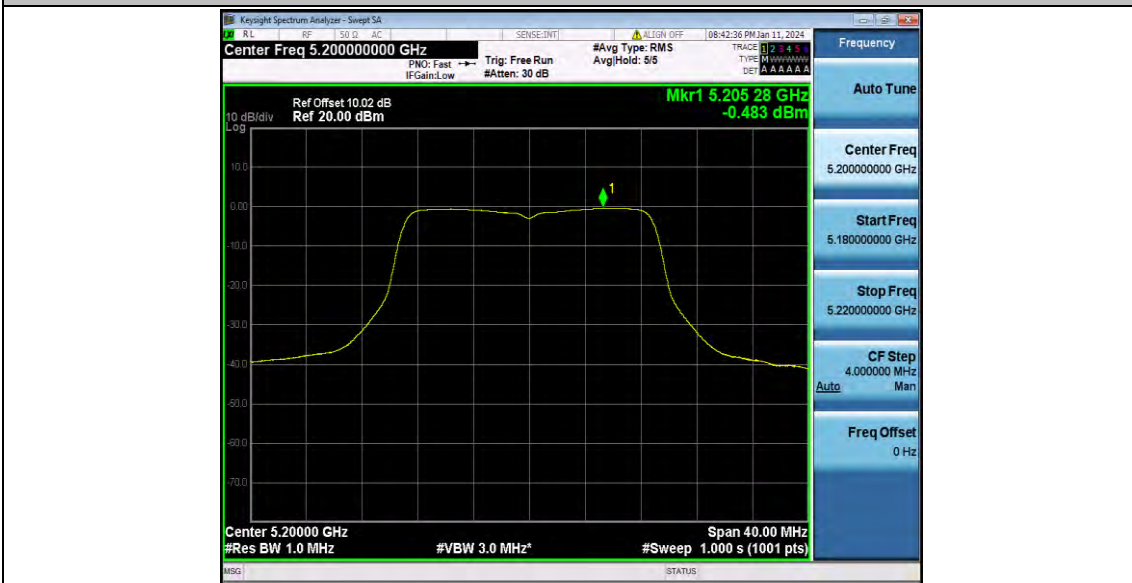




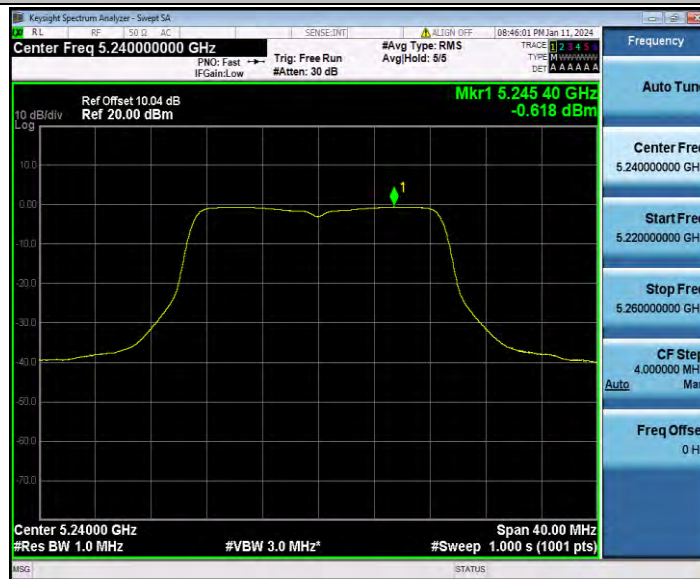
11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



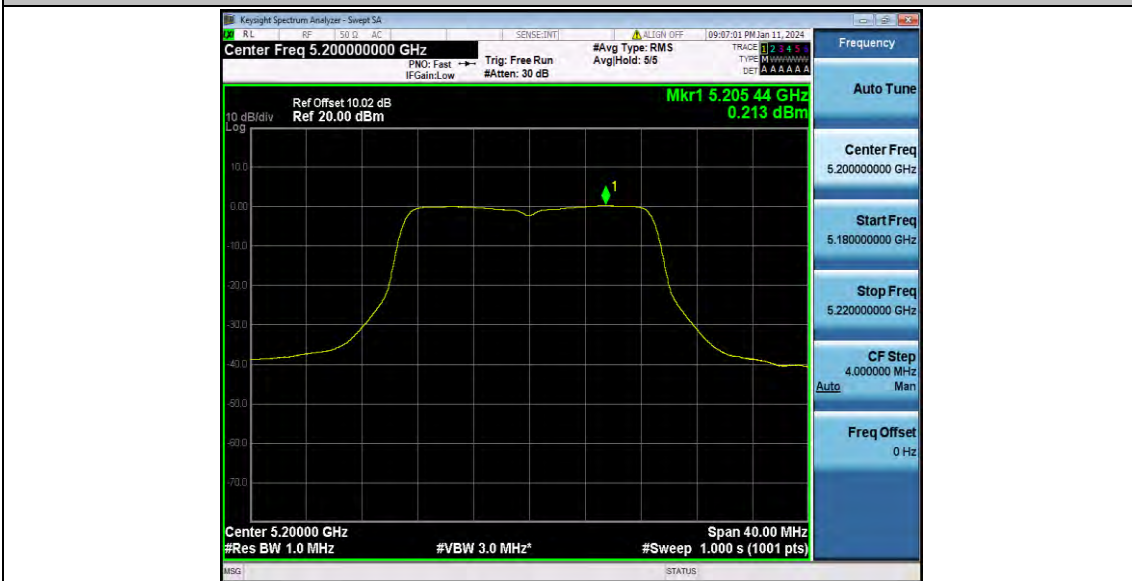
11N40SISO_Ant1_5230



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC80SISO_Ant1_5210

