

RF Test Data for RLAN(5.2G) (Conducted Measurement)**Product Name: Projector****Trade Mark: Aandz****Test Model: M1****FCC ID: 2BAWM-M1****Environmental Conditions**

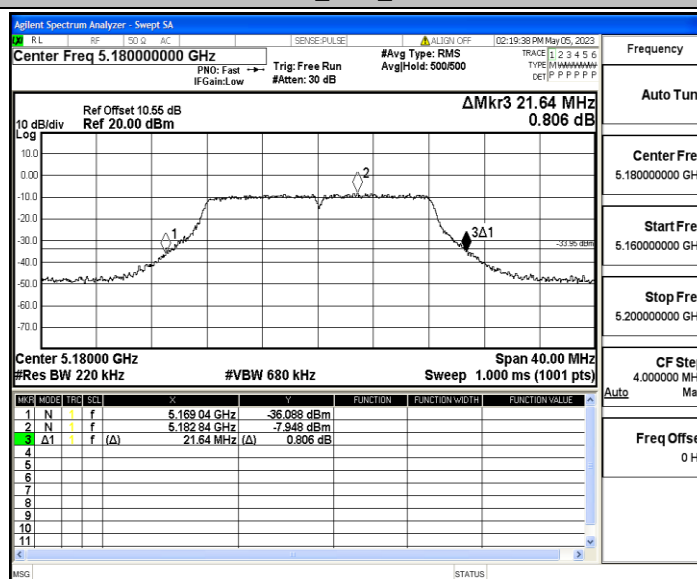
Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A1: Emission Bandwidth**Test Result**

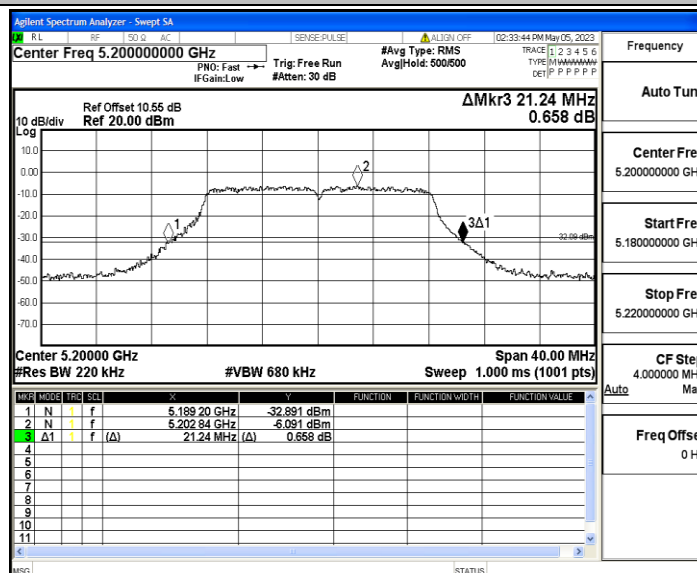
TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	21.640	5169.040	5190.680	---	---
		5200	21.240	5189.200	5210.440	---	---
		5240	21.400	5229.480	5250.880	---	---
11N20SISO	Ant1	5180	21.840	5169.240	5191.080	---	---
		5200	21.720	5189.400	5211.120	---	---
		5240	21.920	5229.120	5251.040	---	---
11N40SISO	Ant1	5190	38.800	5170.800	5209.600	---	---
		5230	38.800	5210.800	5249.600	---	---

Test Graphs

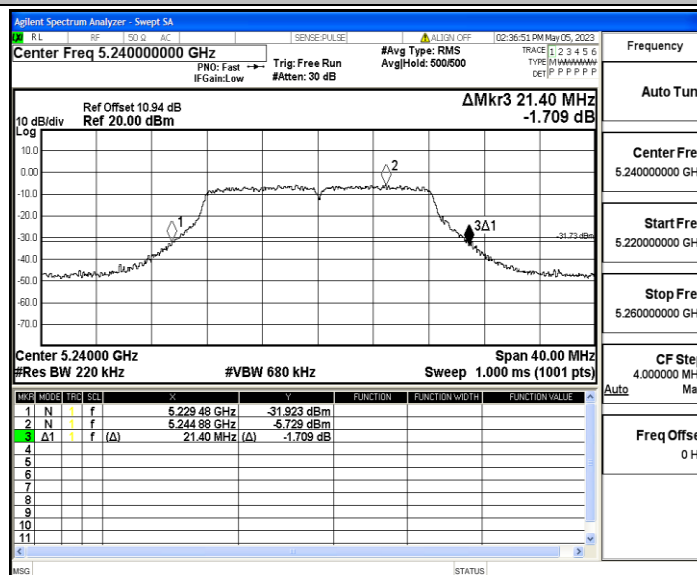
11A_Ant1_5180



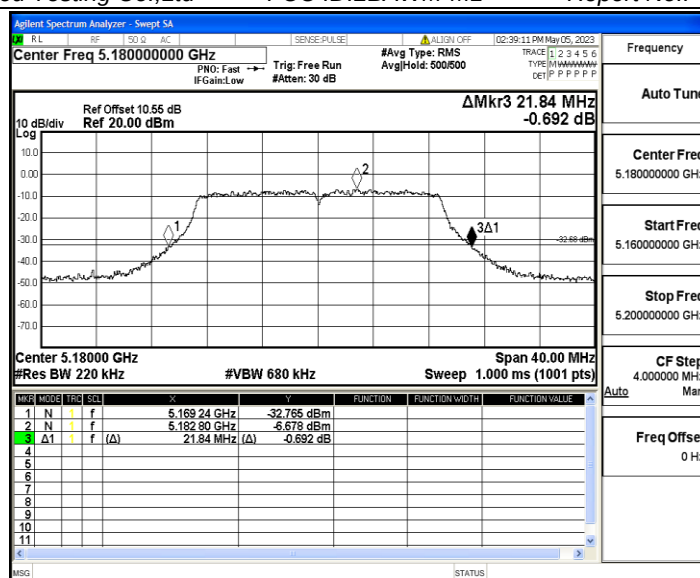
11A_Ant1_5200



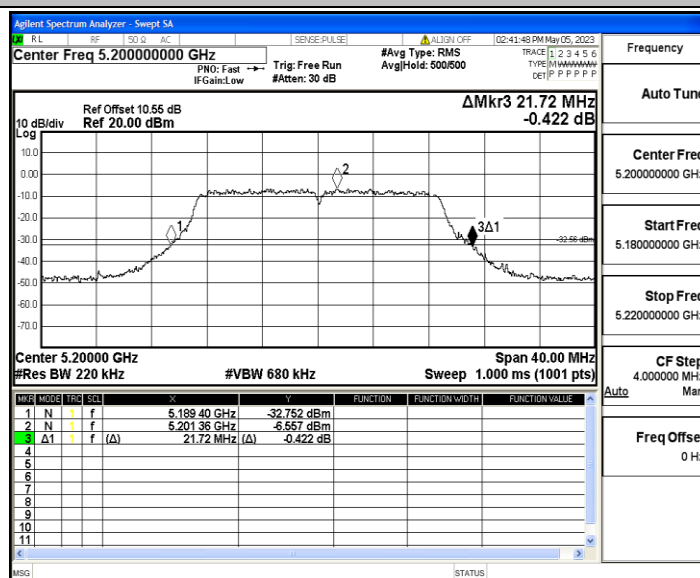
11A_Ant1_5240



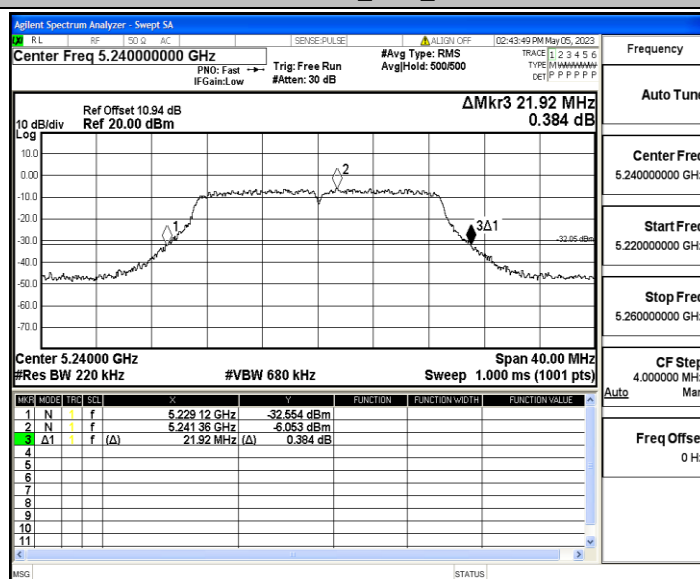
11N20SISO_Ant1_5180



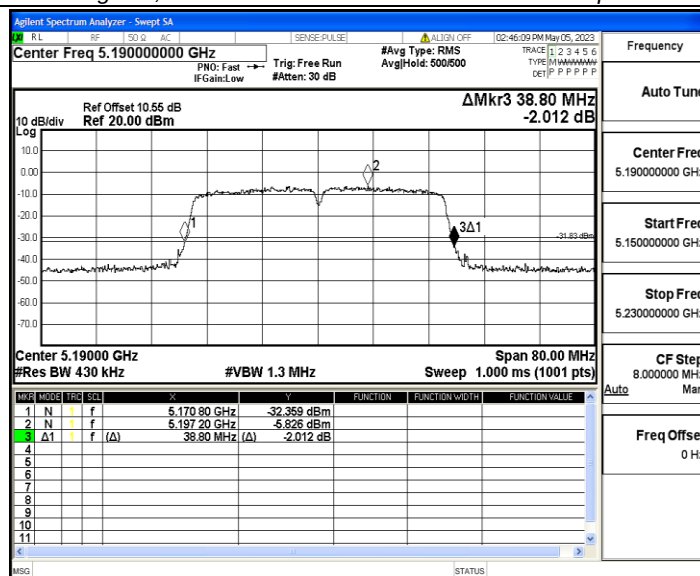
11N20SISO_Ant1_5200



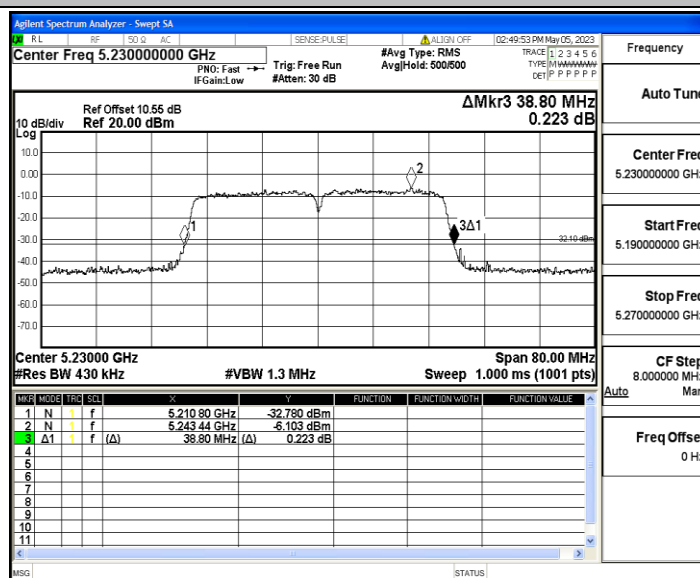
11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



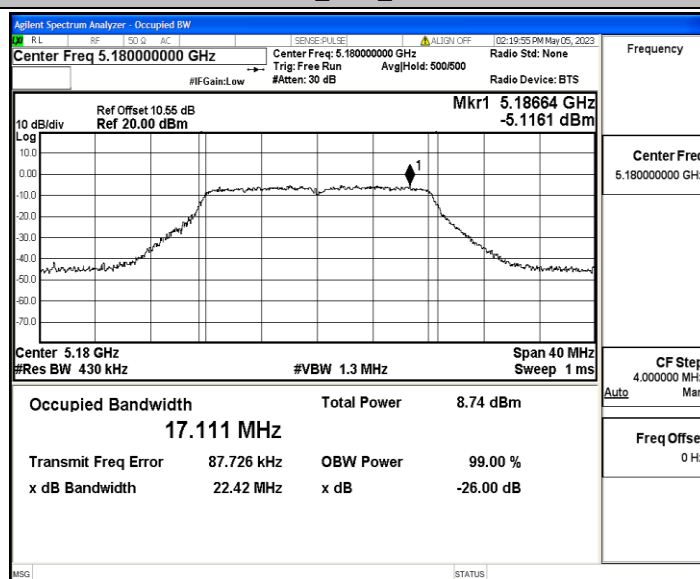
Appendix A2: Occupied channel bandwidth

Test Result

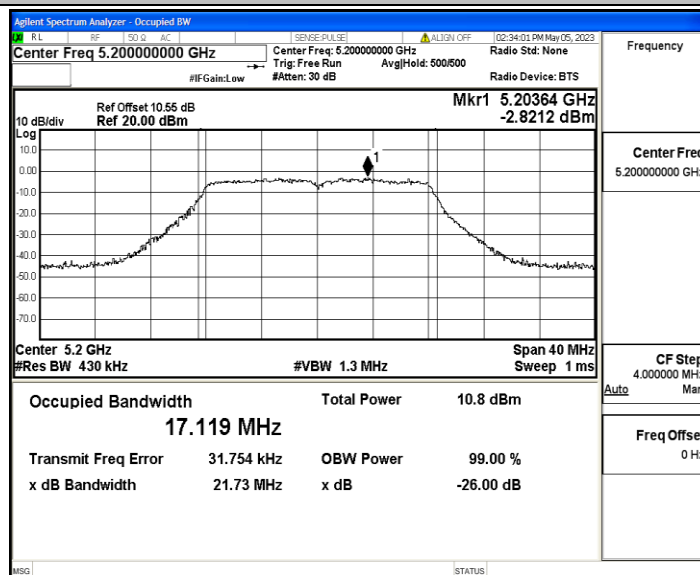
TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.111	5171.5322	5188.6432	---	---
		5200	17.119	5191.4723	5208.5913	---	---
		5240	17.121	5231.5914	5248.7124	---	---
11N20SISO	Ant1	5180	18.099	5171.0954	5189.1944	---	---
		5200	18.067	5191.0547	5209.1217	---	---
		5240	18.159	5230.9922	5249.1512	---	---
11N40SISO	Ant1	5190	35.862	5172.2468	5208.1088	---	---
		5230	36.019	5212.1779	5248.1969	---	---

Test Graphs

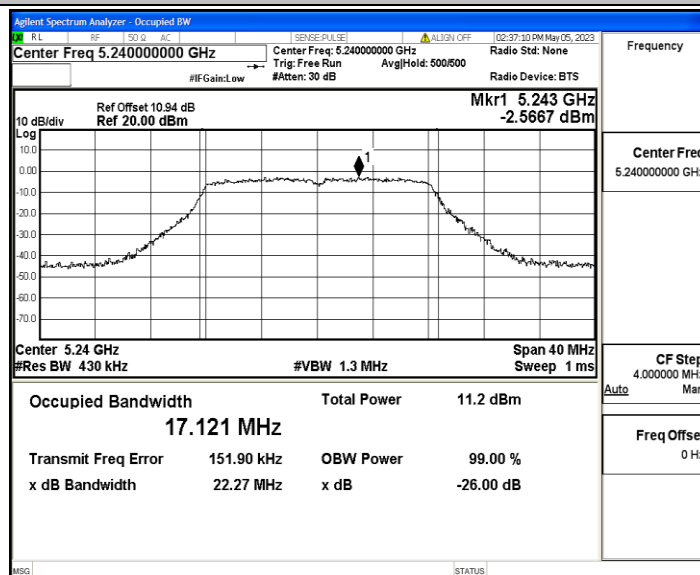
11A_Ant1_5180



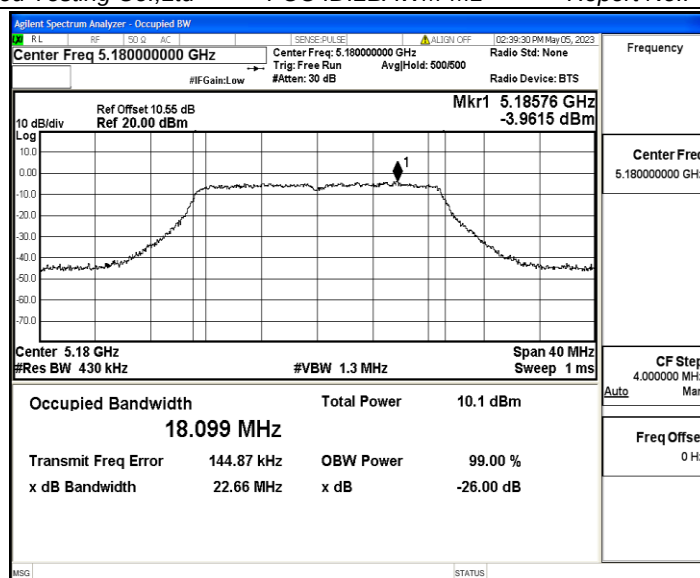
11A_Ant1_5200



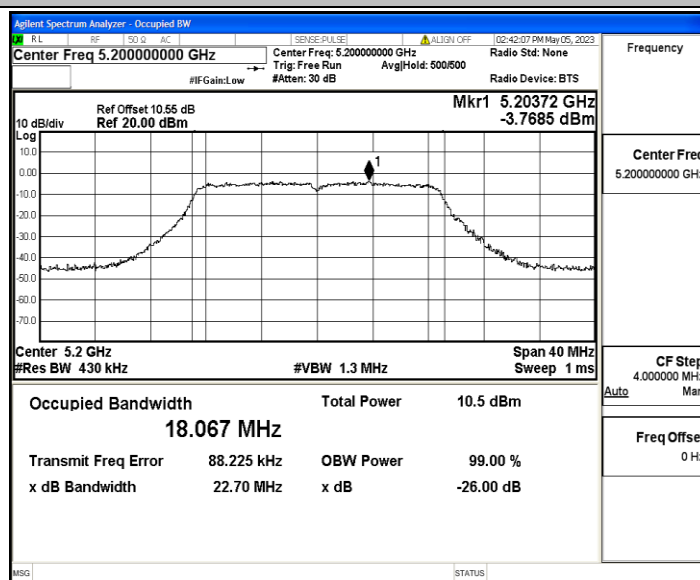
11A_Ant1_5240



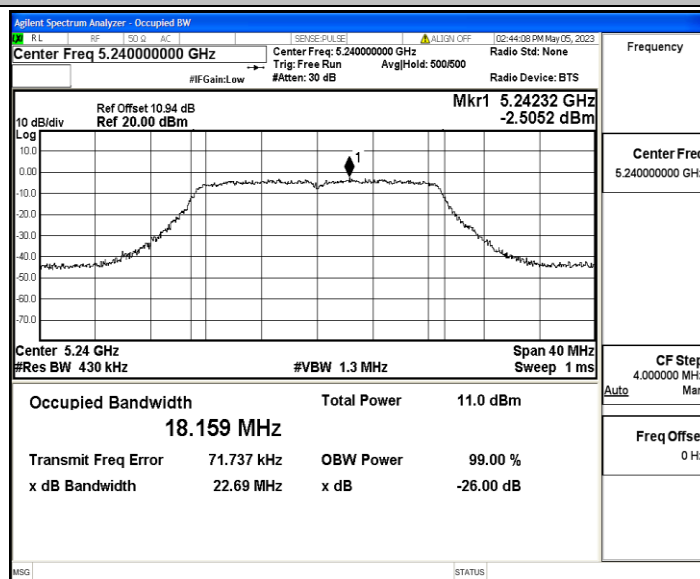
11N20SISO_Ant1_5180



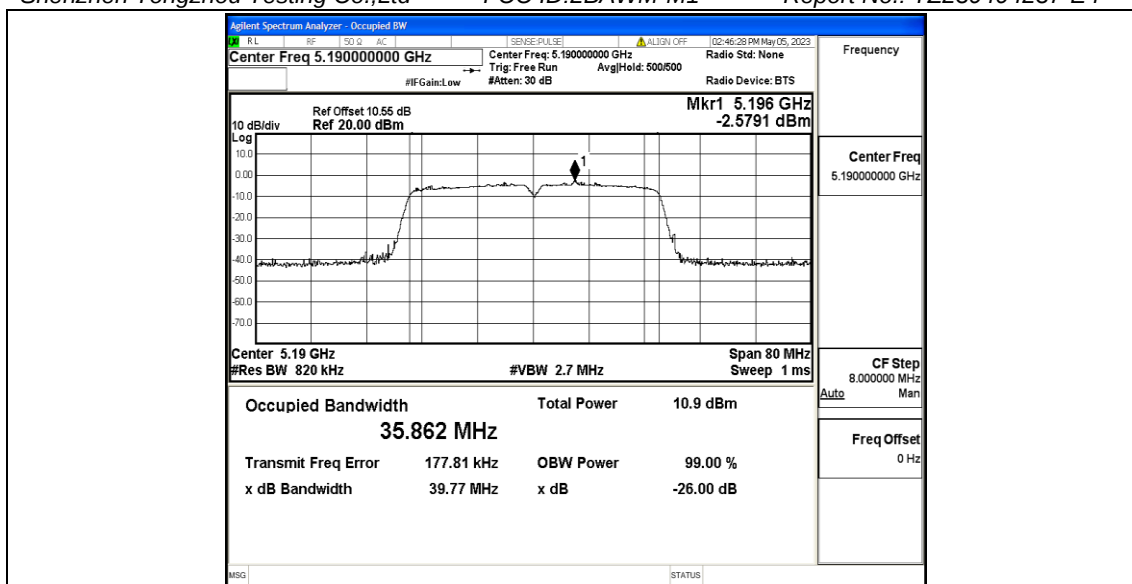
11N20SISO_Ant1_5200



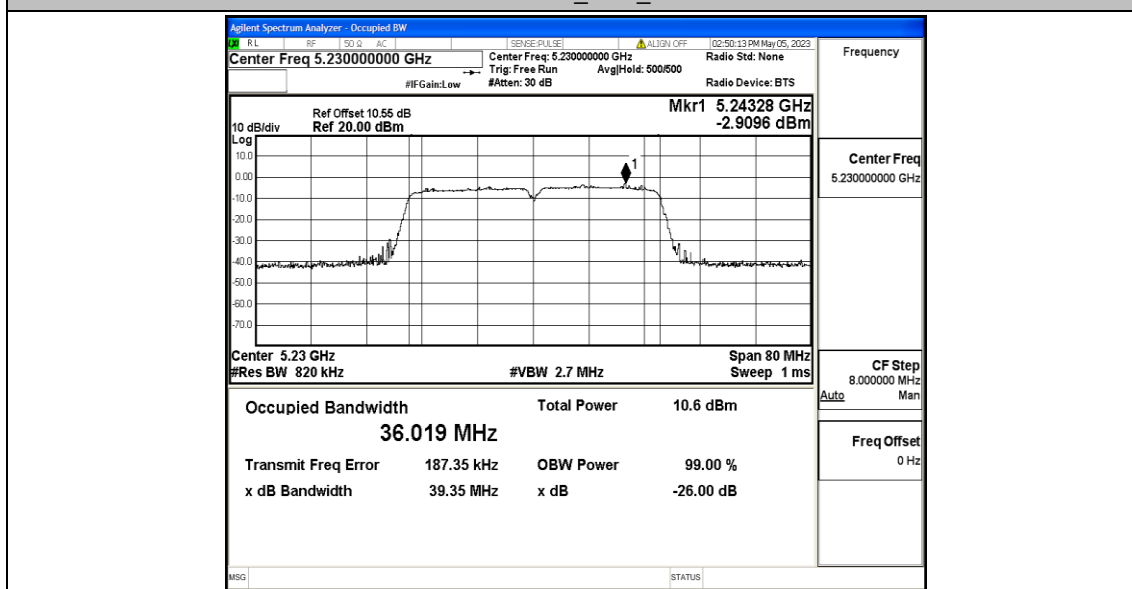
11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



Appendix B: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	2.02	≤23.43	PASS
		5200	4.09	≤23.43	PASS
		5240	4.47	≤23.43	PASS
11N20SISO	Ant1	5180	3.36	≤23.43	PASS
		5200	3.79	≤23.43	PASS
		5240	4.27	≤23.43	PASS
11N40SISO	Ant1	5190	3.62	≤23.43	PASS
		5230	3.40	≤23.43	PASS

Note: The Duty Cycle Factor is compensated in the test result.

Appendix C: Maximum power spectral density

Test Result

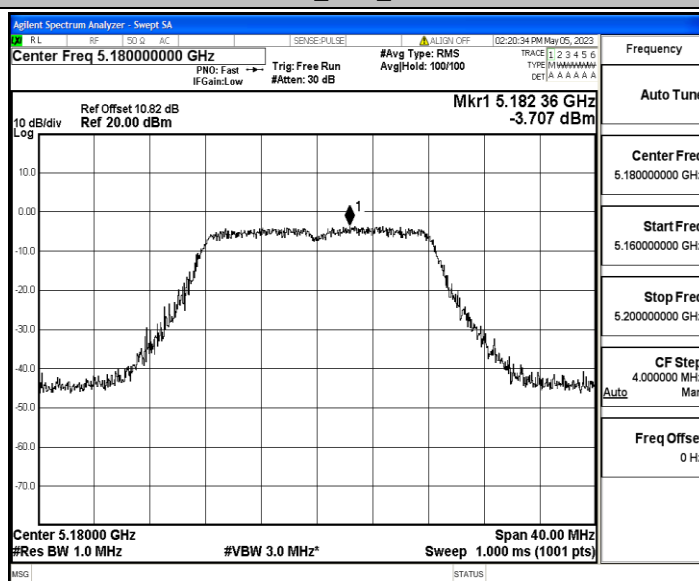
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	-3.71	≤10.45	PASS
		5200	-0.65	≤10.45	PASS
		5240	-0.09	≤10.45	PASS
11N20SISO	Ant1	5180	-2.3	≤10.45	PASS
		5200	-1.63	≤10.45	PASS
		5240	-0.9	≤10.45	PASS
11N40SISO	Ant1	5190	-3.83	≤10.45	PASS
		5230	-3.43	≤10.45	PASS

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

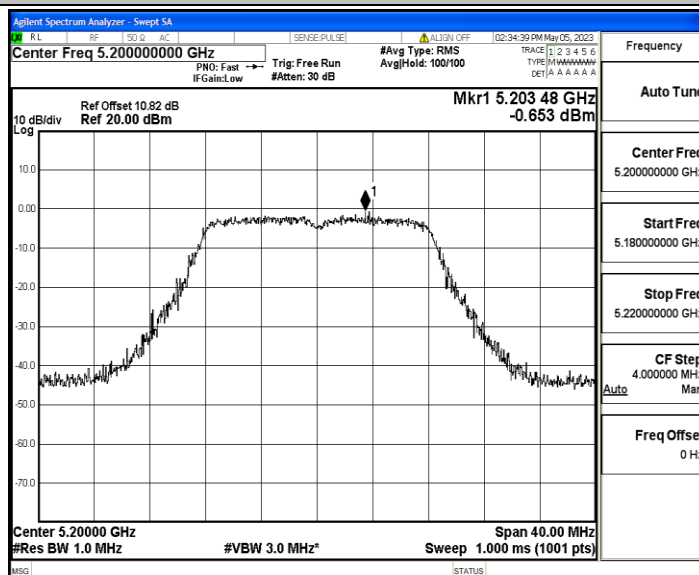
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

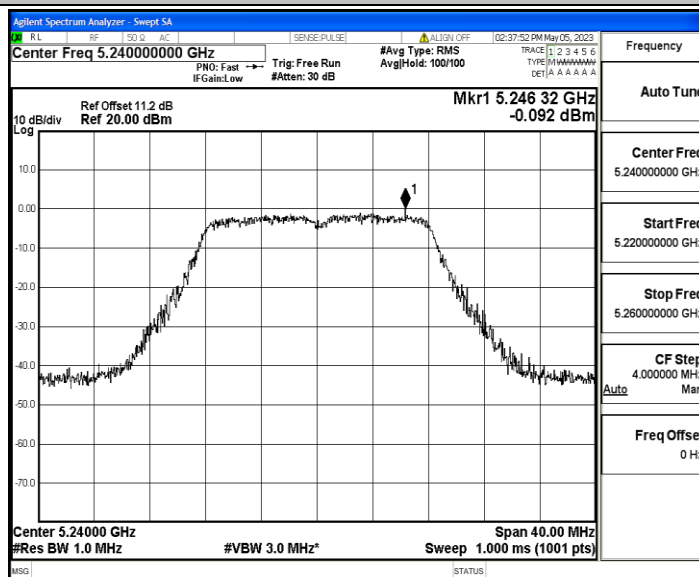
11A_Ant1_5180



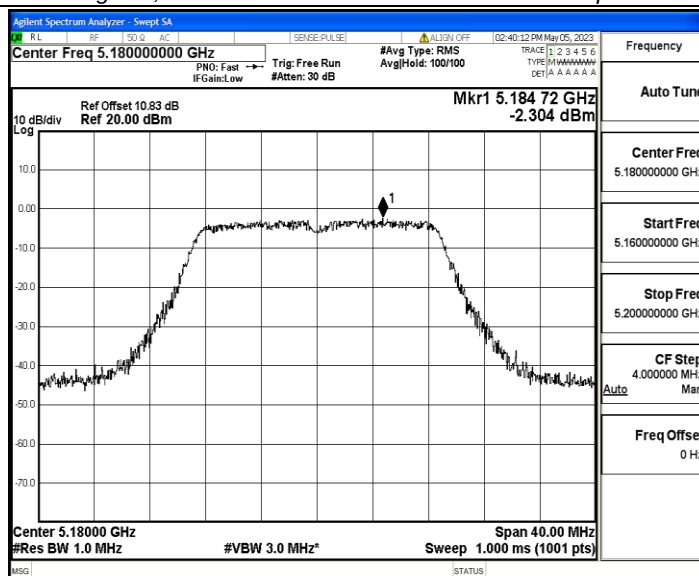
11A_Ant1_5200



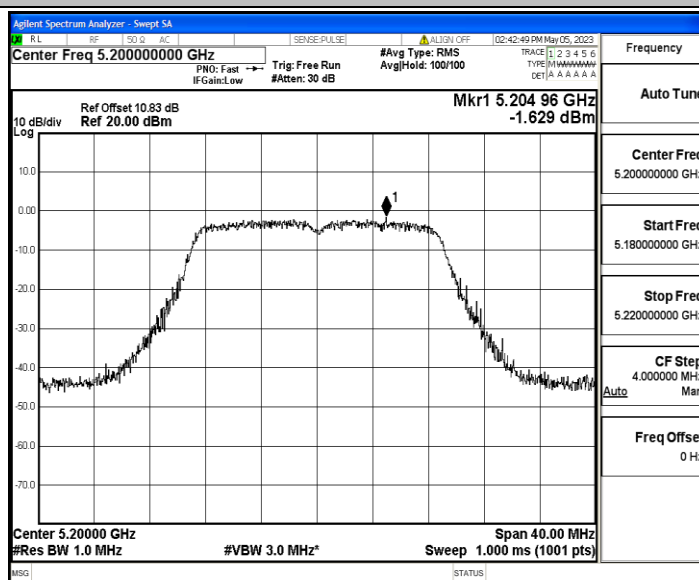
11A_Ant1_5240



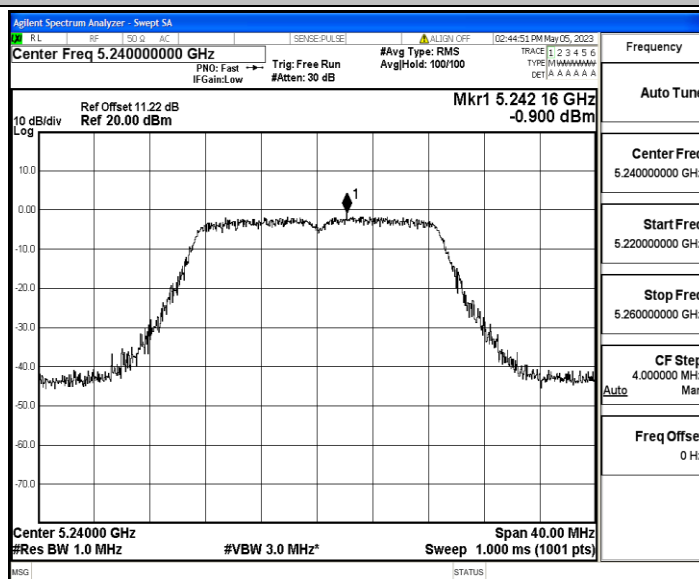
11N20SISO_Ant1_5180



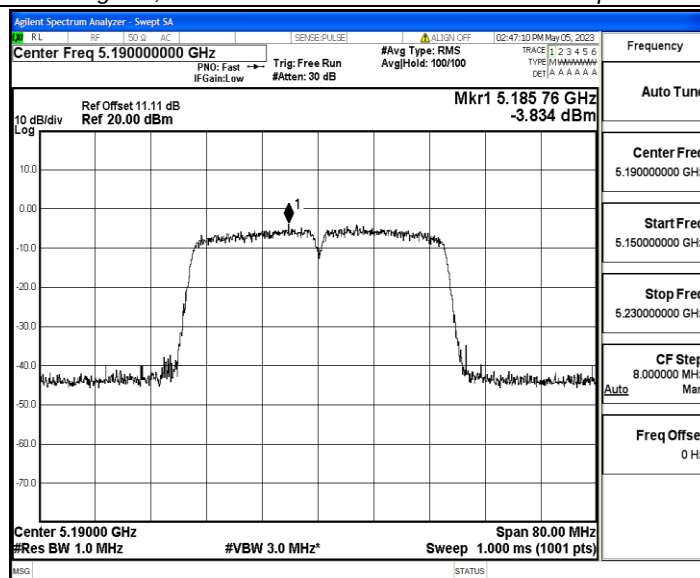
11N20SISO_Ant1_5200



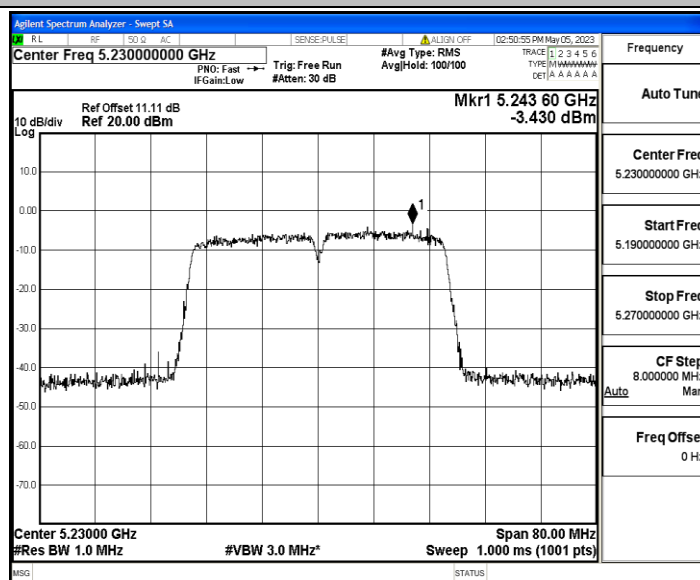
11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



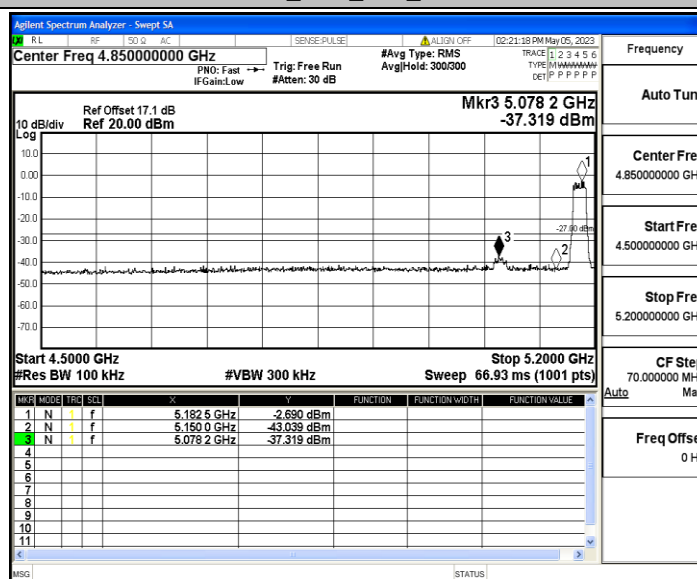
Appendix D: Band edge measurements

Test Result

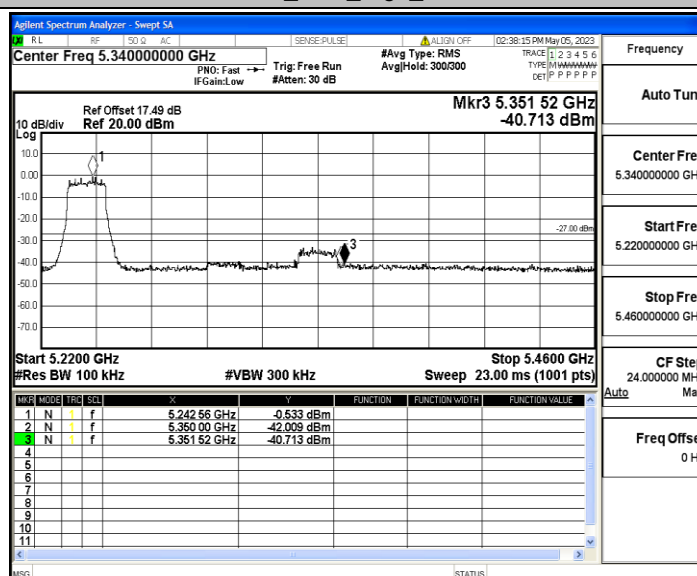
TestMode	Antenna	ChName	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-37.32	≤ -27	PASS
		High	5240	-40.71	≤ -27	PASS
11N20SISO	Ant1	Low	5180	-35.85	≤ -27	PASS
		High	5240	-39.32	≤ -27	PASS
11N40SISO	Ant1	Low	5190	-38.66	≤ -27	PASS
		High	5230	-40.54	≤ -27	PASS

Test Graphs

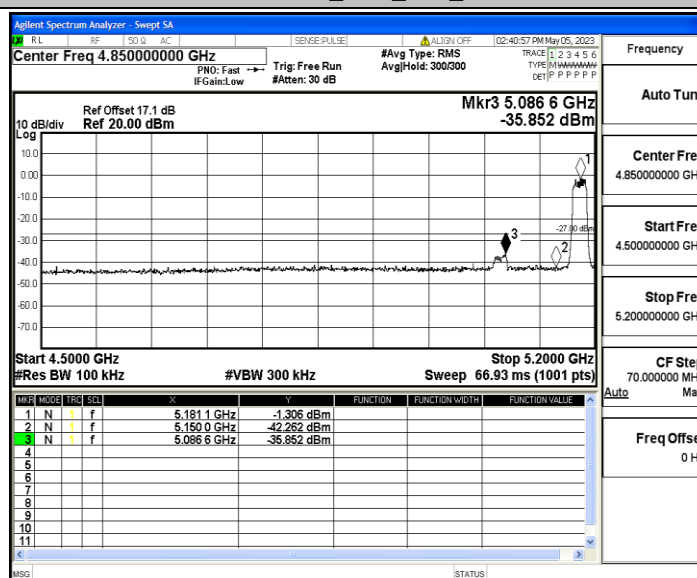
11A_Ant1_Low_5180



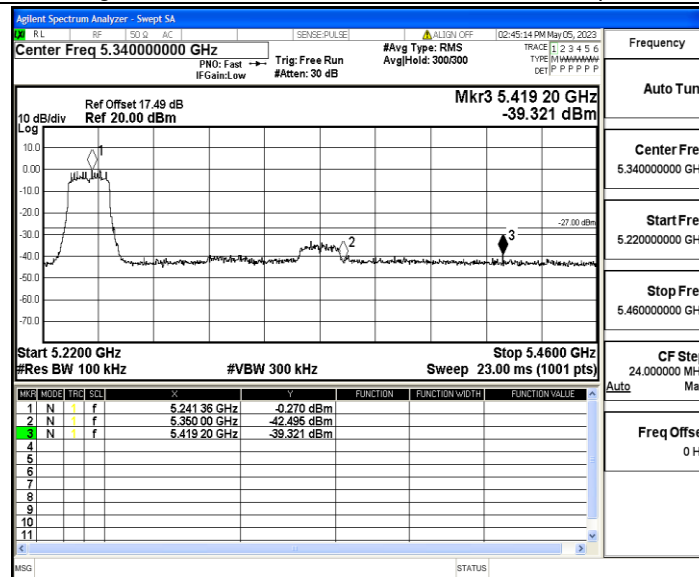
11A_Ant1_High_5240



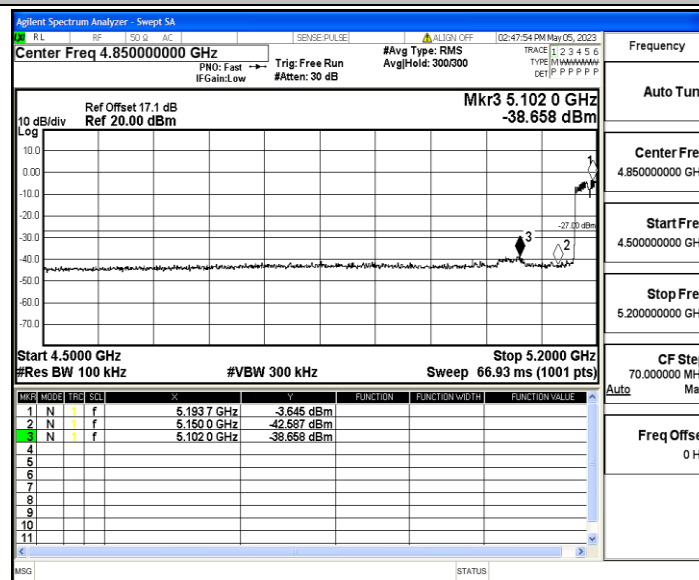
11N20SISO_Ant1_Low_5180



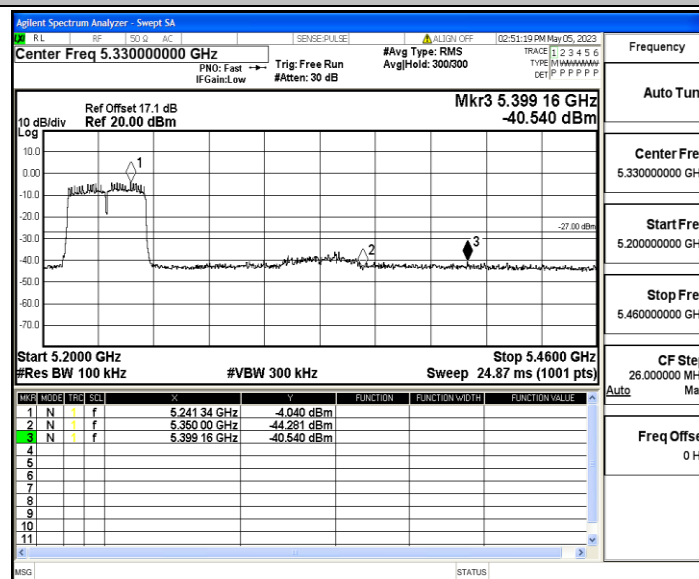
11N20SISO_Ant1_High_5240



11N40SISO_Ant1_Low_5190



11N40SISO_Ant1_High_5230



Appendix E: Frequency Stability

Test Result

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5180	20	132	5180.094181	5150 – 5250	PASS
5180	20	108	5179.904533	5150 – 5250	PASS
5180	50	120	5179.994075	5150 – 5250	PASS
5180	40	120	5180.079803	5150 – 5250	PASS
5180	30	120	5179.933324	5150 – 5250	PASS
5180	20	120	5180.096035	5150 – 5250	PASS
5180	10	120	5180.036853	5150 – 5250	PASS
5180	0	120	5180.086667	5150 – 5250	PASS
5180	-10	120	5180.076932	5150 – 5250	PASS
5180	-20	120	5179.940249	5150 – 5250	PASS
5180	-30	120	5180.042968	5150 – 5250	PASS

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5200	20	132	5200.043373	5150 – 5250	PASS
5200	20	108	5199.986300	5150 – 5250	PASS
5200	50	120	5199.952932	5150 – 5250	PASS
5200	40	120	5200.038416	5150 – 5250	PASS
5200	30	120	5200.012226	5150 – 5250	PASS
5200	20	120	5200.064520	5150 – 5250	PASS
5200	10	120	5200.076694	5150 – 5250	PASS
5200	0	120	5199.949264	5150 – 5250	PASS
5200	-10	120	5199.914561	5150 – 5250	PASS
5200	-20	120	5200.092876	5150 – 5250	PASS
5200	-30	120	5199.992451	5150 – 5250	PASS

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5240	20	132	5239.993671	5150 – 5250	PASS
5240	20	108	5240.046693	5150 – 5250	PASS
5240	50	120	5239.964499	5150 – 5250	PASS
5240	40	120	5239.966229	5150 – 5250	PASS
5240	30	120	5239.970198	5150 – 5250	PASS
5240	20	120	5240.095978	5150 – 5250	PASS
5240	10	120	5239.980852	5150 – 5250	PASS
5240	0	120	5240.048151	5150 – 5250	PASS
5240	-10	120	5239.949983	5150 – 5250	PASS
5240	-20	120	5240.056507	5150 – 5250	PASS
5240	-30	120	5240.032373	5150 – 5250	PASS

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5190	20	132	5190.037371	5150 – 5250	PASS
5190	20	108	5190.062070	5150 – 5250	PASS
5190	50	120	5189.957169	5150 – 5250	PASS
5190	40	120	5190.009332	5150 – 5250	PASS
5190	30	120	5189.966528	5150 – 5250	PASS
5190	20	120	5190.081332	5150 – 5250	PASS
5190	10	120	5189.971790	5150 – 5250	PASS
5190	0	120	5189.980068	5150 – 5250	PASS
5190	-10	120	5190.067403	5150 – 5250	PASS
5190	-20	120	5190.048950	5150 – 5250	PASS
5190	-30	120	5190.022896	5150 – 5250	PASS

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5230	20	132	5230.004062	5150 – 5250	PASS
5230	20	108	5229.909892	5150 – 5250	PASS
5230	50	120	5229.905373	5150 – 5250	PASS
5230	40	120	5230.030822	5150 – 5250	PASS
5230	30	120	5230.045573	5150 – 5250	PASS
5230	20	120	5230.077615	5150 – 5250	PASS
5230	10	120	5229.907829	5150 – 5250	PASS
5230	0	120	5230.024571	5150 – 5250	PASS
5230	-10	120	5230.071436	5150 – 5250	PASS
5230	-20	120	5229.918169	5150 – 5250	PASS
5230	-30	120	5230.010372	5150 – 5250	PASS

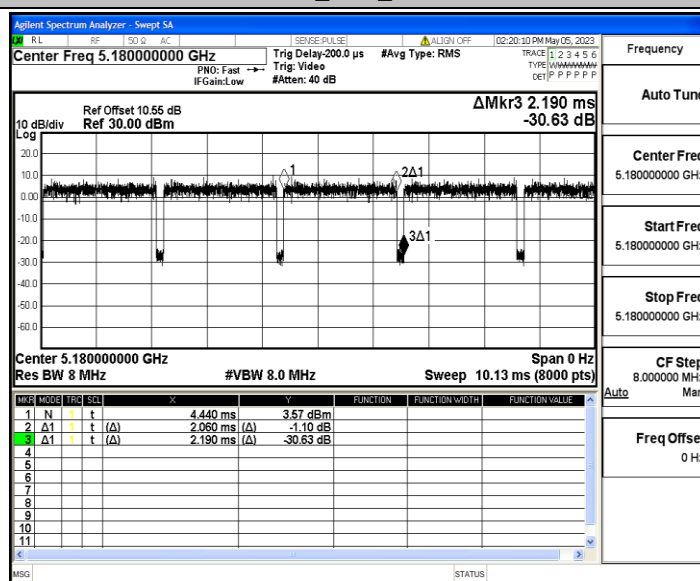
Appendix F: Duty Cycle

Test Result

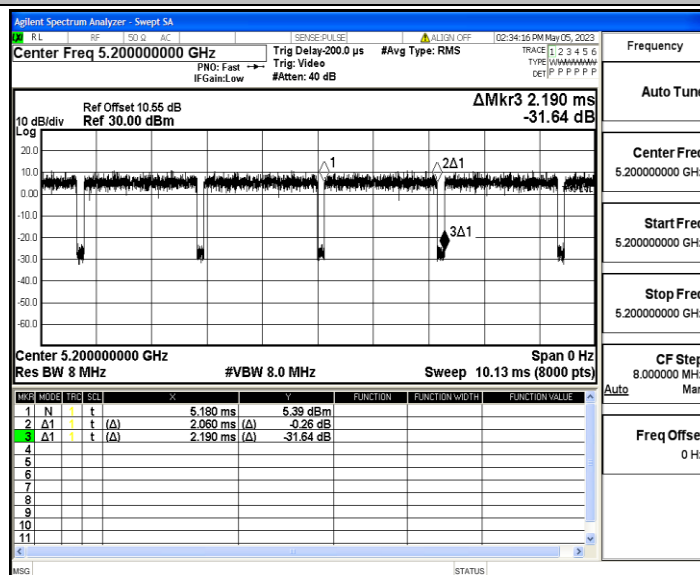
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T [kHz]
11A	Ant1	5180	2.06	2.19	94.06	0.49
		5200	2.06	2.19	94.06	0.49
		5240	2.07	2.20	94.09	0.48
11N20SISO	Ant1	5180	1.92	2.05	93.66	0.52
		5200	1.92	2.05	93.66	0.52
		5240	1.92	2.05	93.66	0.52
11N40SISO	Ant1	5190	0.94	1.07	87.85	1.06
		5230	0.94	1.07	87.85	1.06

Test Graphs

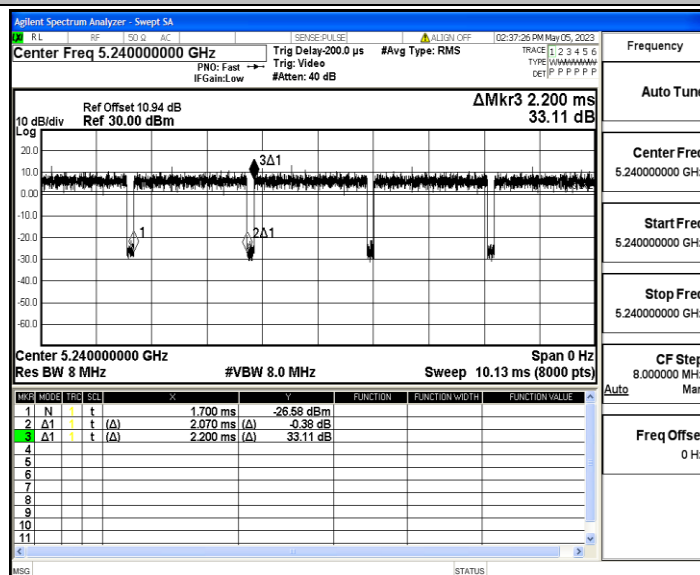
11A_Ant1_5180



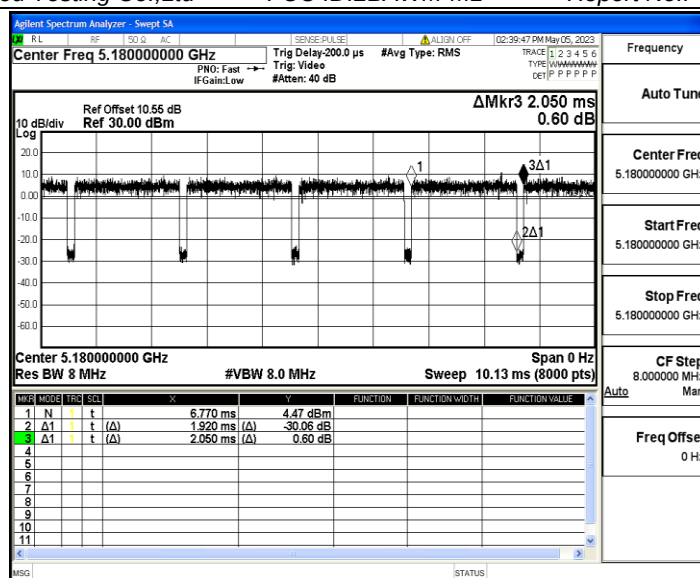
11A_Ant1_5200



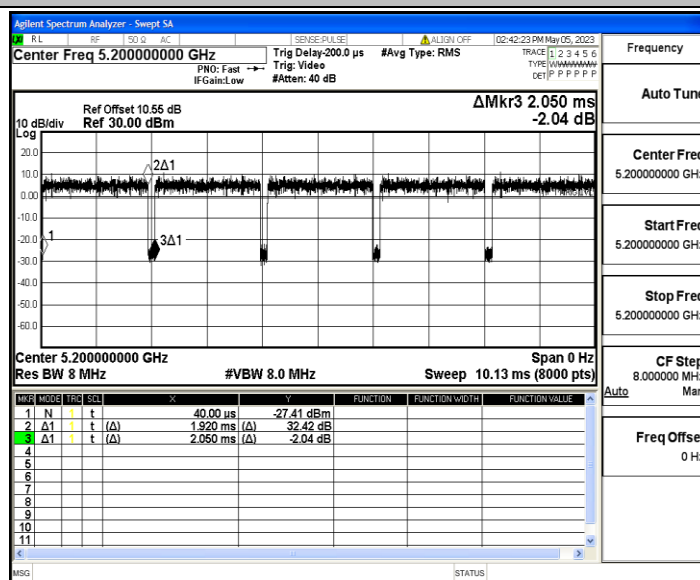
11A_Ant1_5240



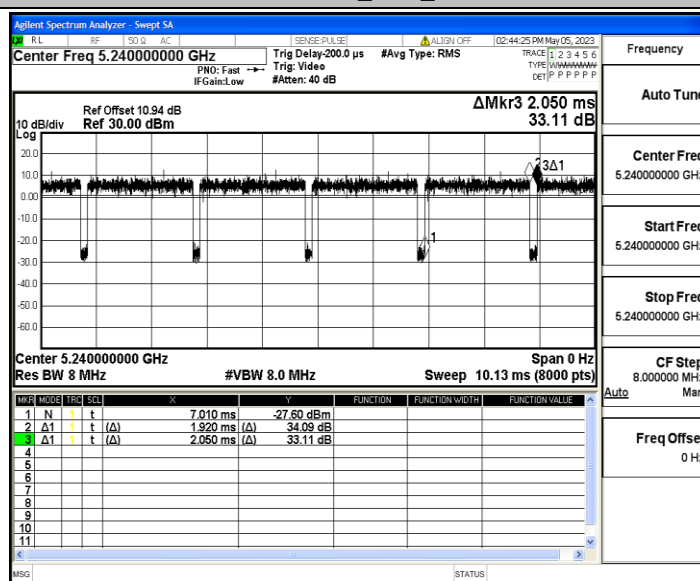
11N20SISO_Ant1_5180



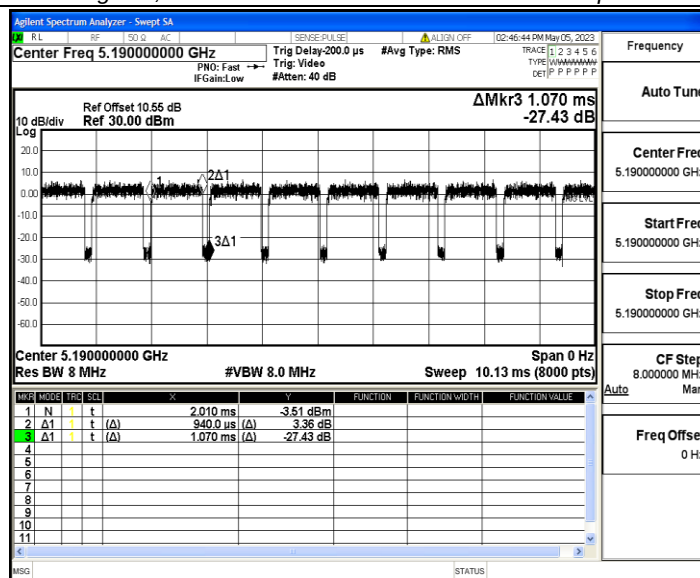
11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230

