

RF Test Data for RLAN(5.2G) (Conducted Measurement)

Product Name: Automatic Pet Feeder - Camera Monitoring 5L Double Food Tray

Trade Mark: PETLIBRO

Test Model: PLAF203

FCC ID: 2A3DE-PLAF203S

Environmental Conditions

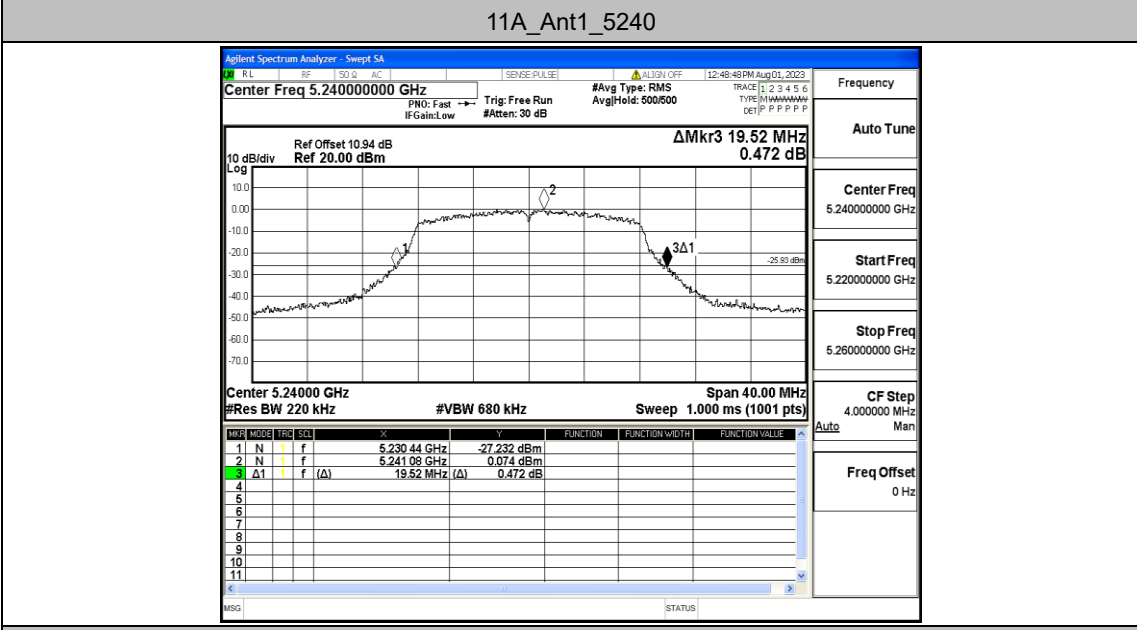
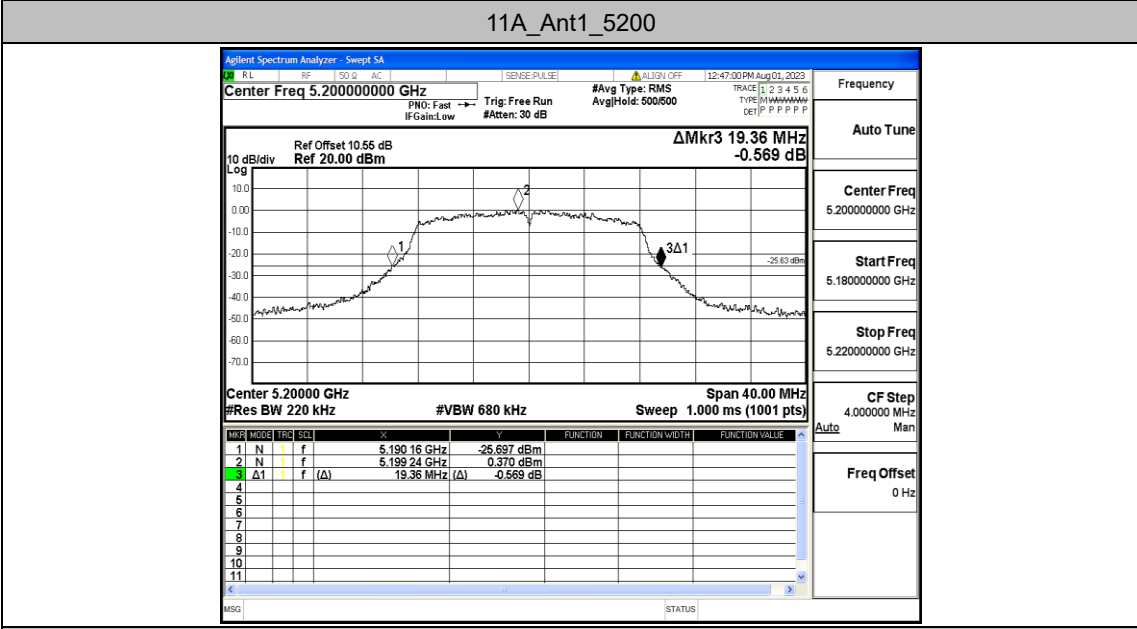
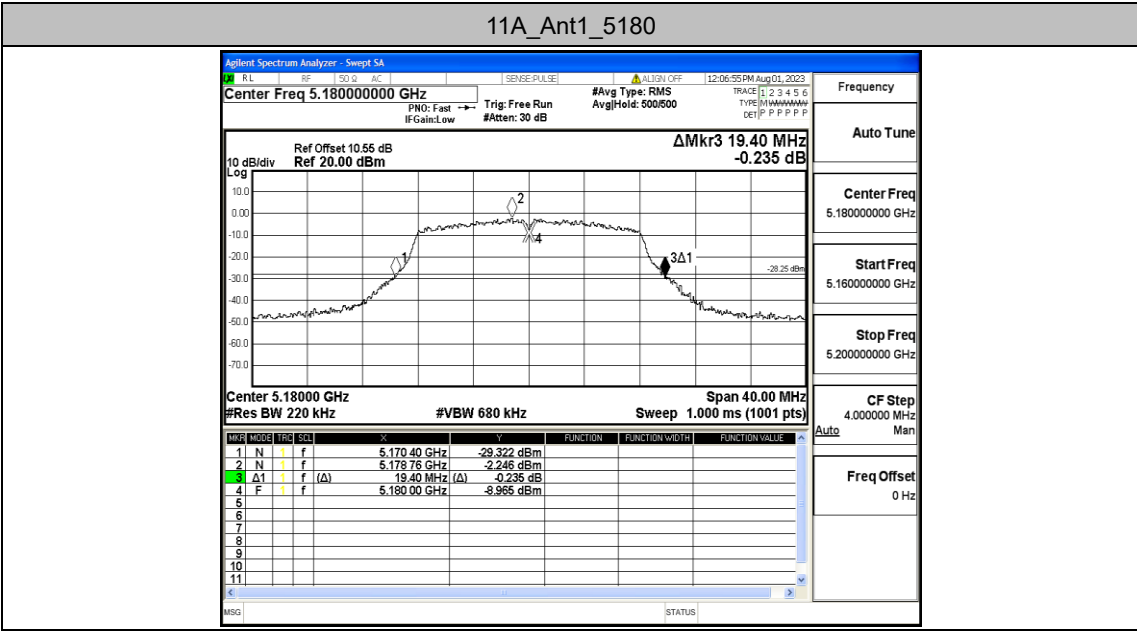
Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A1: Emission Bandwidth

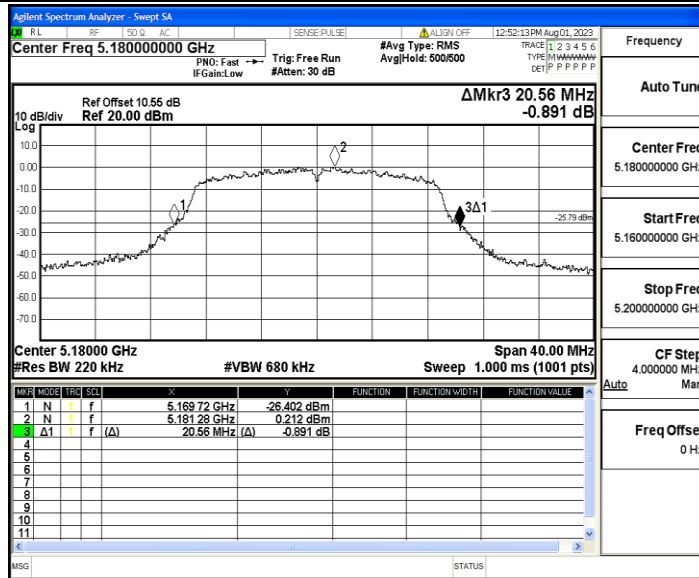
Test Result

TestMode	Antenna	Channel	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	19.400	5170.400	5189.800	---	---
		5200	19.360	5190.160	5209.520	---	---
		5240	19.520	5230.440	5249.960	---	---
11N20SISO	Ant1	5180	20.560	5169.720	5190.280	---	---
		5200	20.000	5190.040	5210.040	---	---
		5240	20.120	5229.880	5250.000	---	---
11N40SISO	Ant1	5190	38.000	5171.040	5209.040	---	---
		5230	37.920	5211.120	5249.040	---	---
11AC20SISO	Ant1	5180	19.320	5170.400	5189.720	---	---
		5200	19.040	5190.400	5209.440	---	---
		5240	19.320	5230.360	5249.680	---	---
11AC40SISO	Ant1	5190	39.840	5170.240	5210.080	---	---
		5230	40.560	5209.680	5250.240	---	---

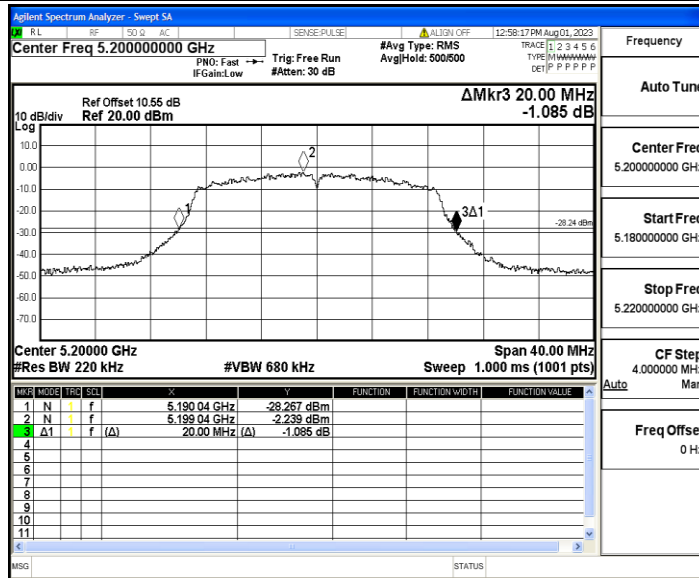
Test Graphs



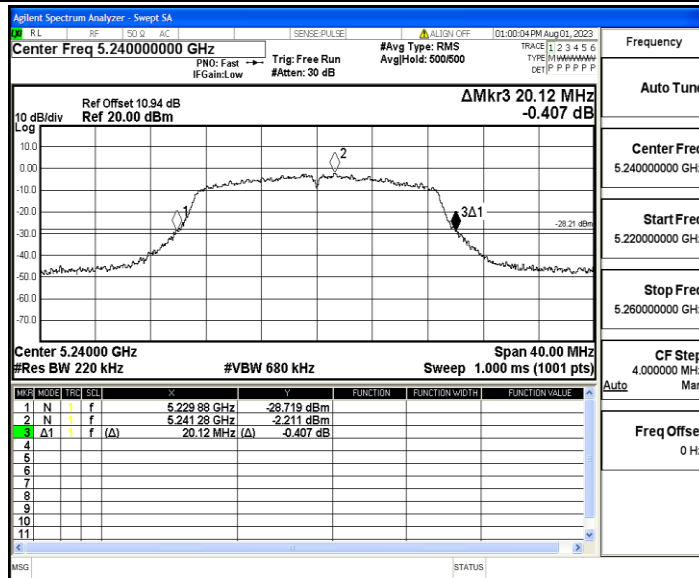
11N20SISO_Ant1_5180



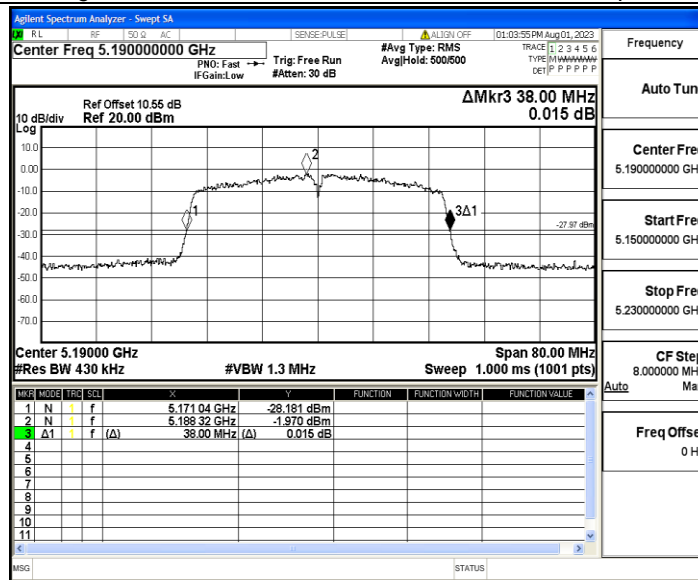
11N20SISO_Ant1_5200



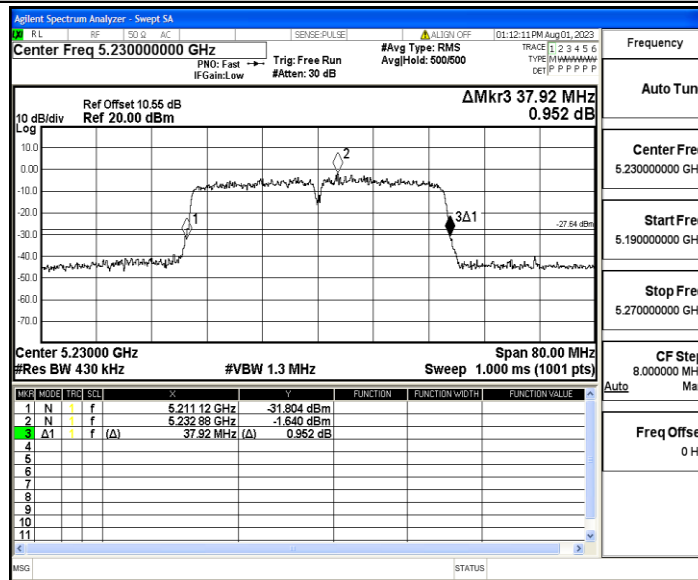
11N20SISO_Ant1_5240



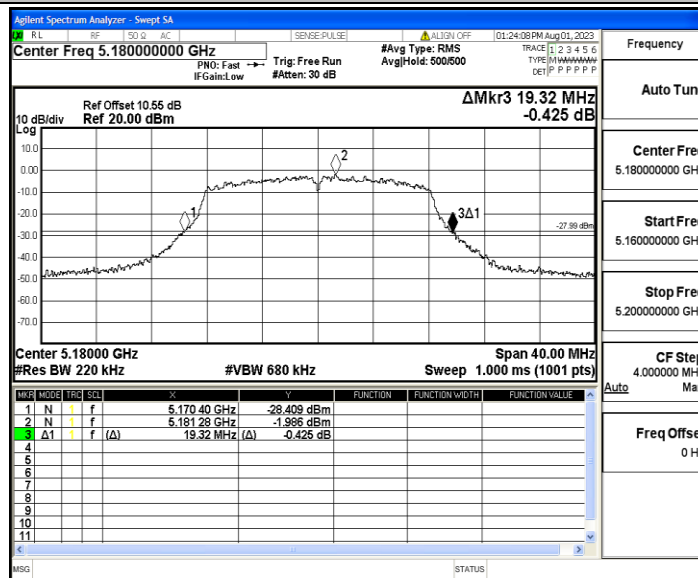
11N40SISO_Ant1_5190



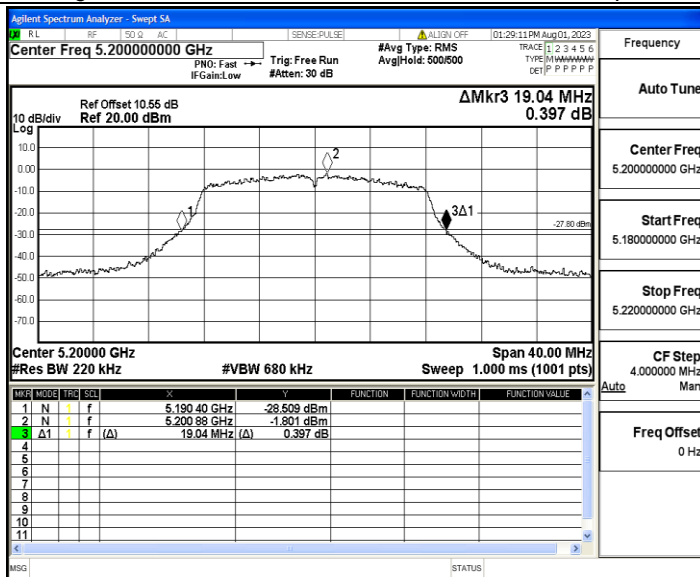
11N40SISO_Ant1_5230



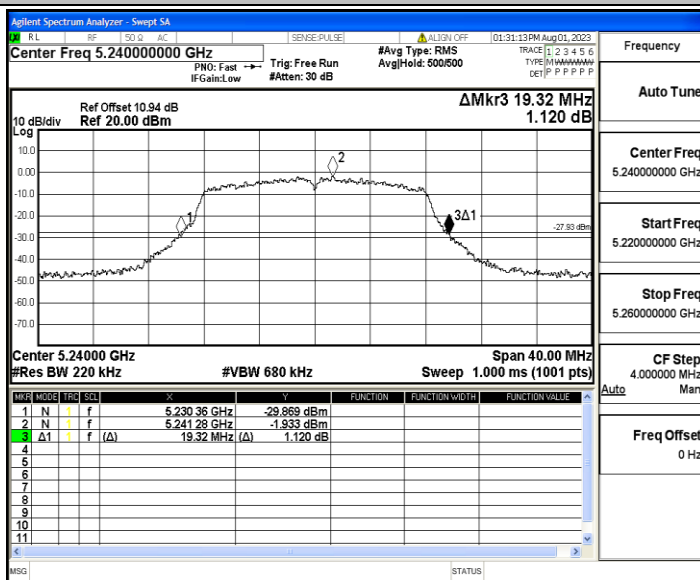
11A20SISO_Ant1_5180



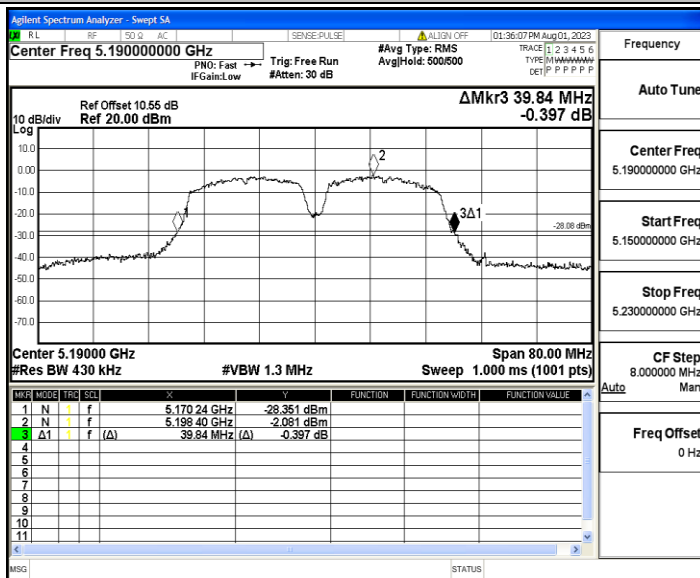
11A20SISO_Ant1_5200



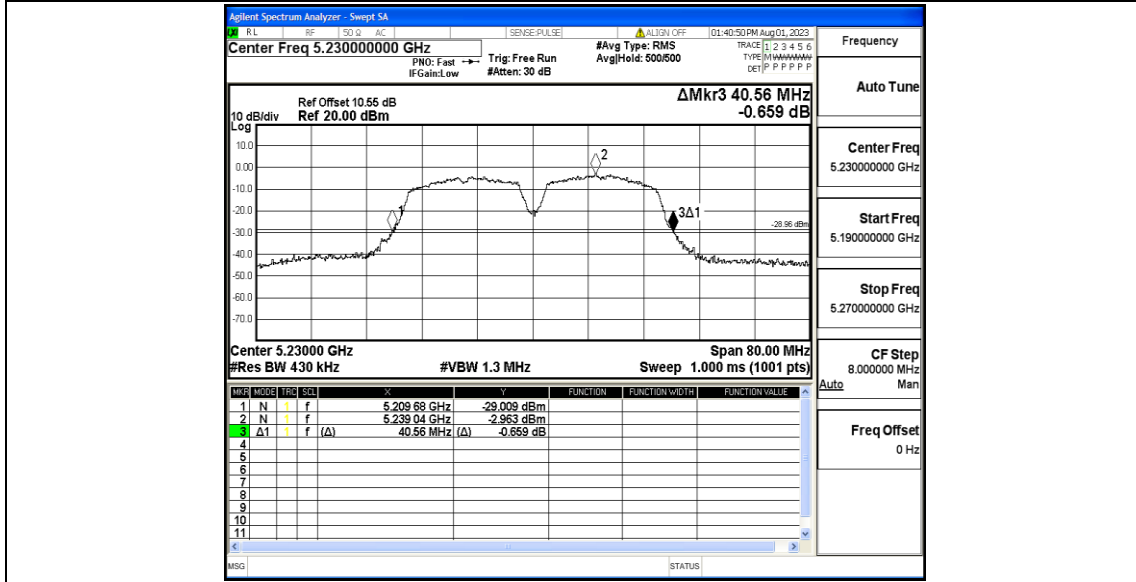
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230

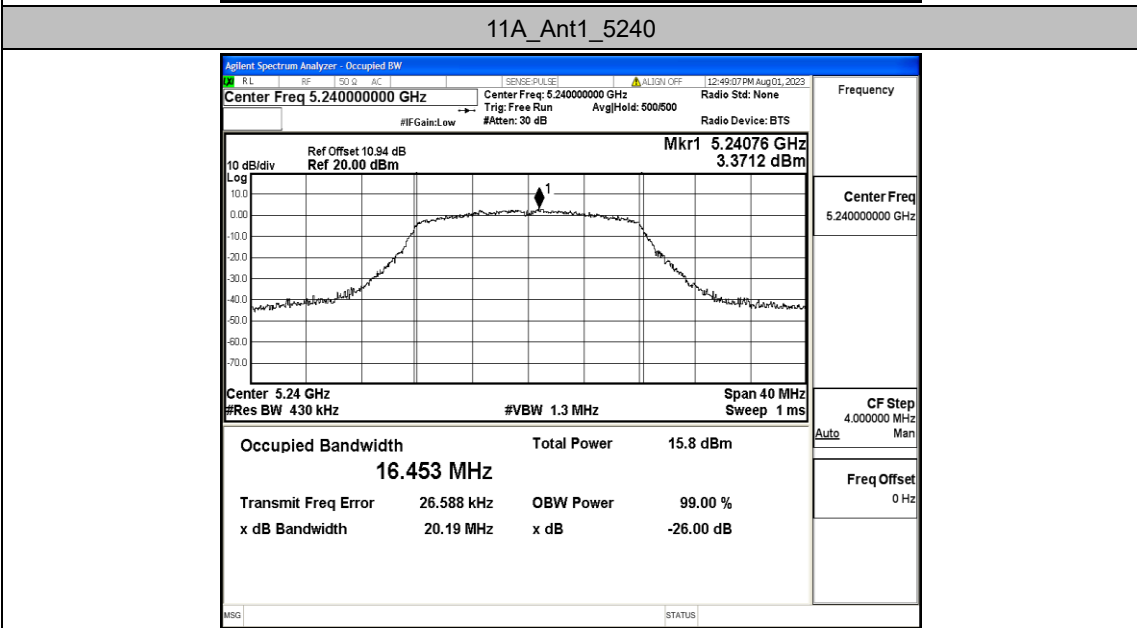
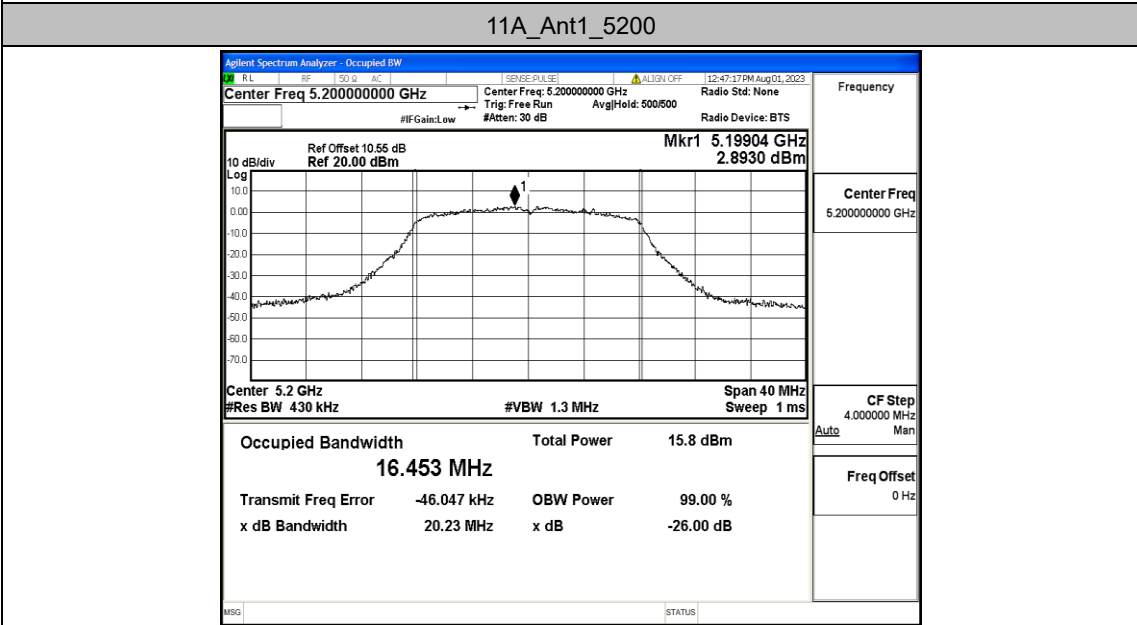
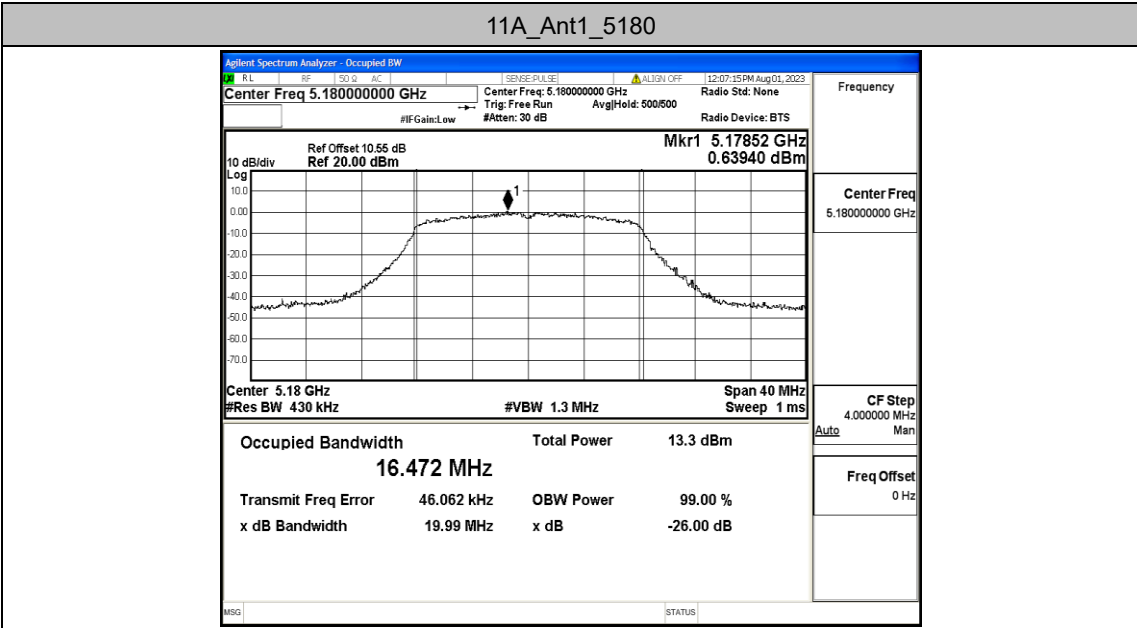


Appendix A2: Occupied channel bandwidth

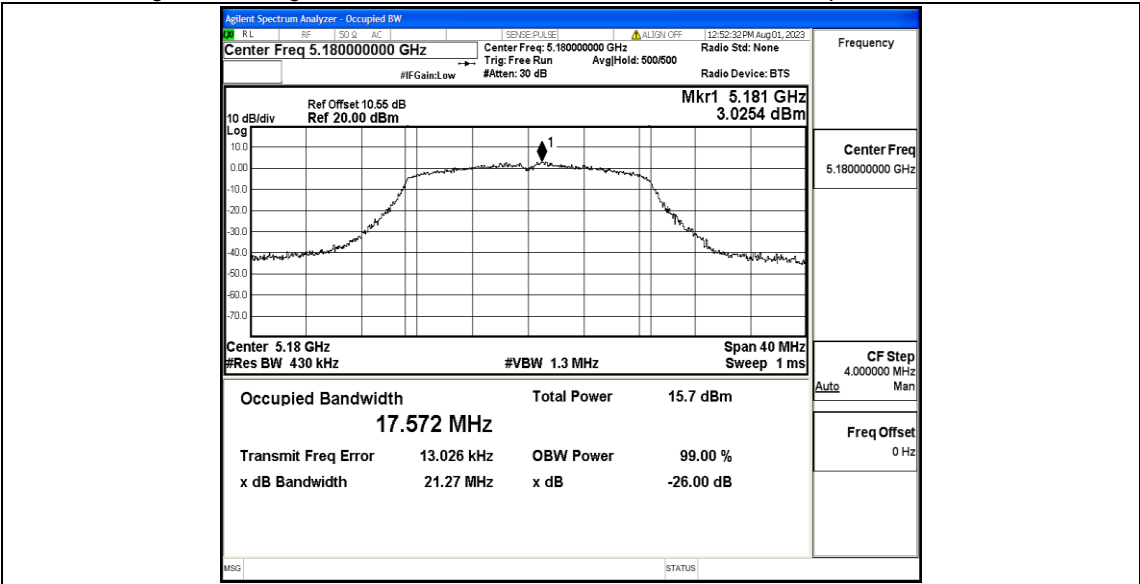
Test Result

TestMode	Antenna	Channel	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.472	5171.8101	5188.2821	---	---
		5200	16.453	5191.7275	5208.1805	---	---
		5240	16.453	5231.8001	5248.2531	---	---
11N20SISO	Ant1	5180	17.572	5171.2270	5188.7990	---	---
		5200	17.473	5191.2501	5208.7231	---	---
		5240	17.501	5231.2680	5248.7690	---	---
11N40SISO	Ant1	5190	35.115	5172.4667	5207.5817	---	---
		5230	35.816	5212.1713	5247.9873	---	---
11AC20SISO	Ant1	5180	16.449	5171.7876	5188.2366	---	---
		5200	16.408	5191.7564	5208.1644	---	---
		5240	16.430	5231.7760	5248.2060	---	---
11AC40SISO	Ant1	5190	35.852	5172.0745	5207.9265	---	---
		5230	35.937	5212.1093	5248.0463	---	---

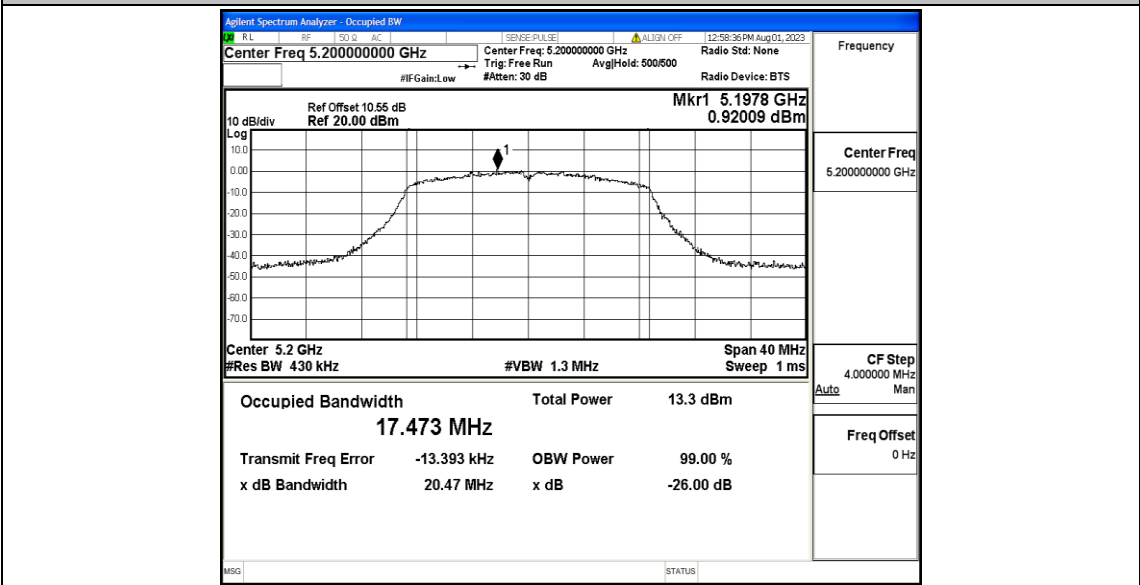
Test Graphs



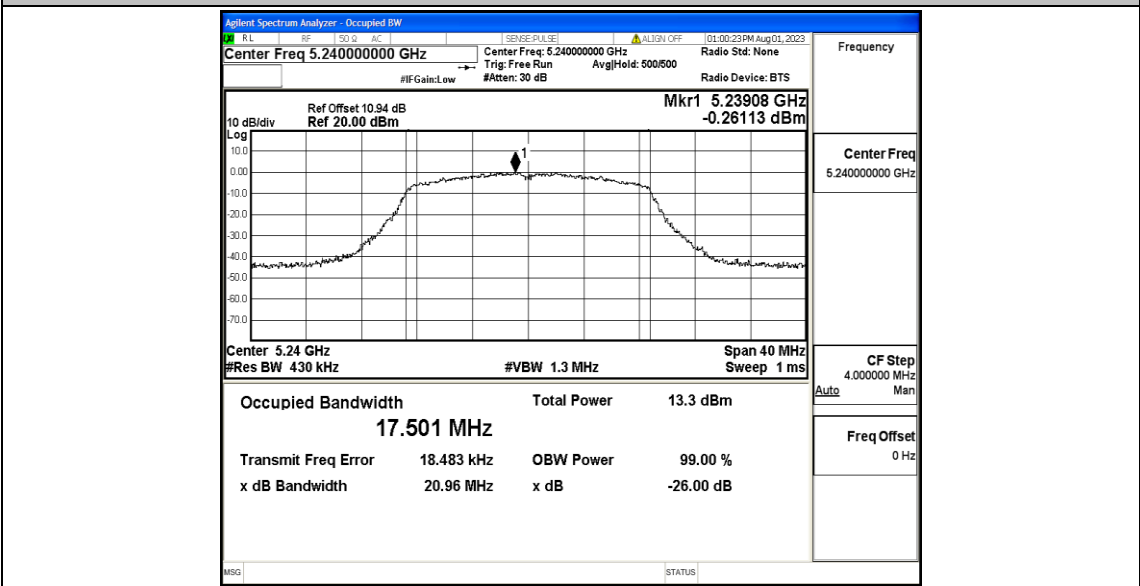
11N20SISO_Ant1_5180



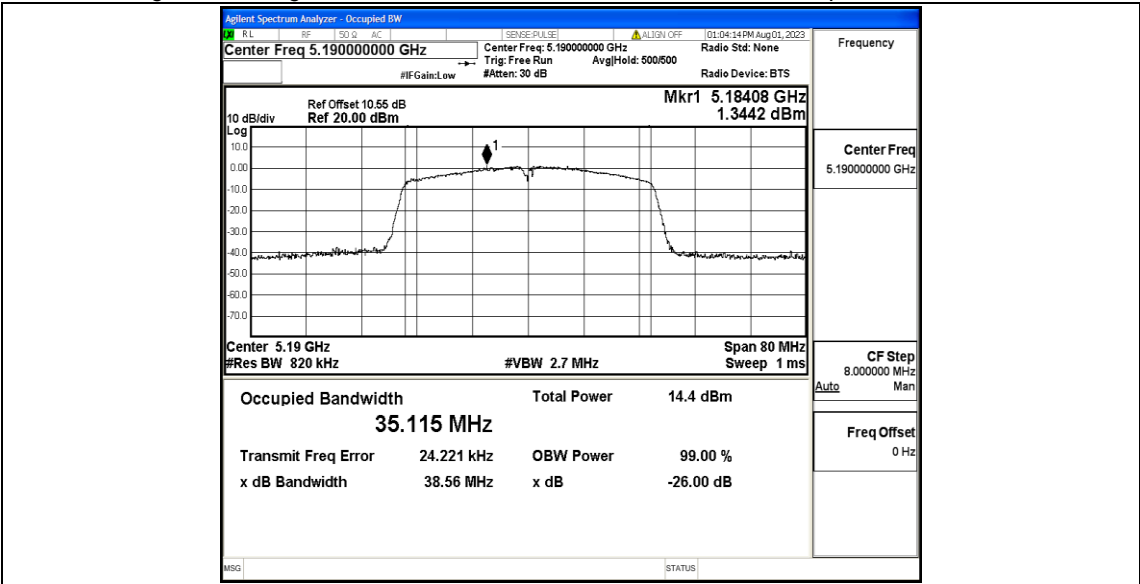
11N20SISO_Ant1_5200



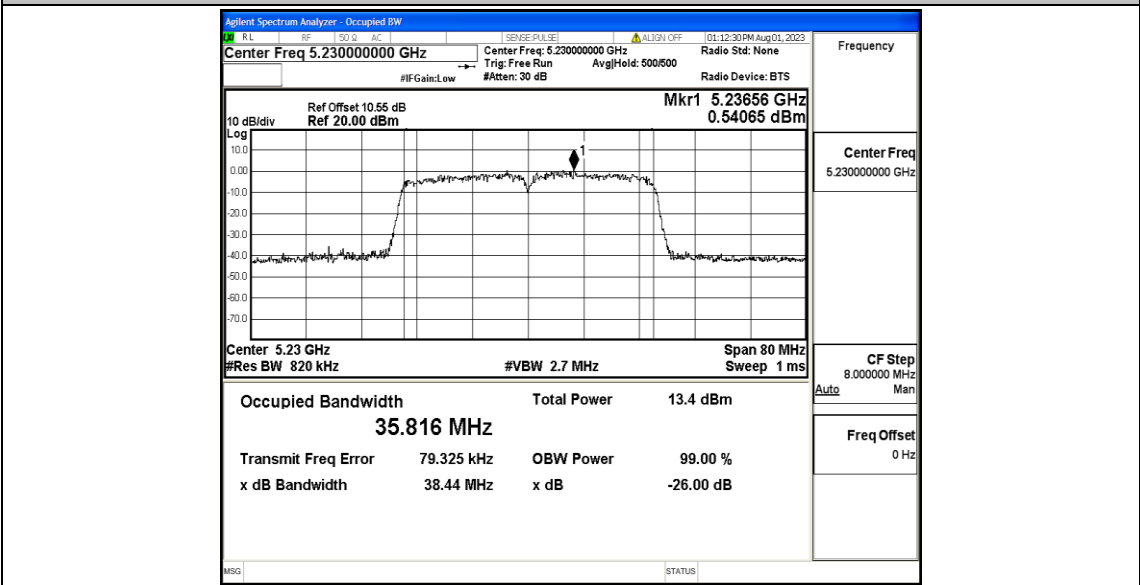
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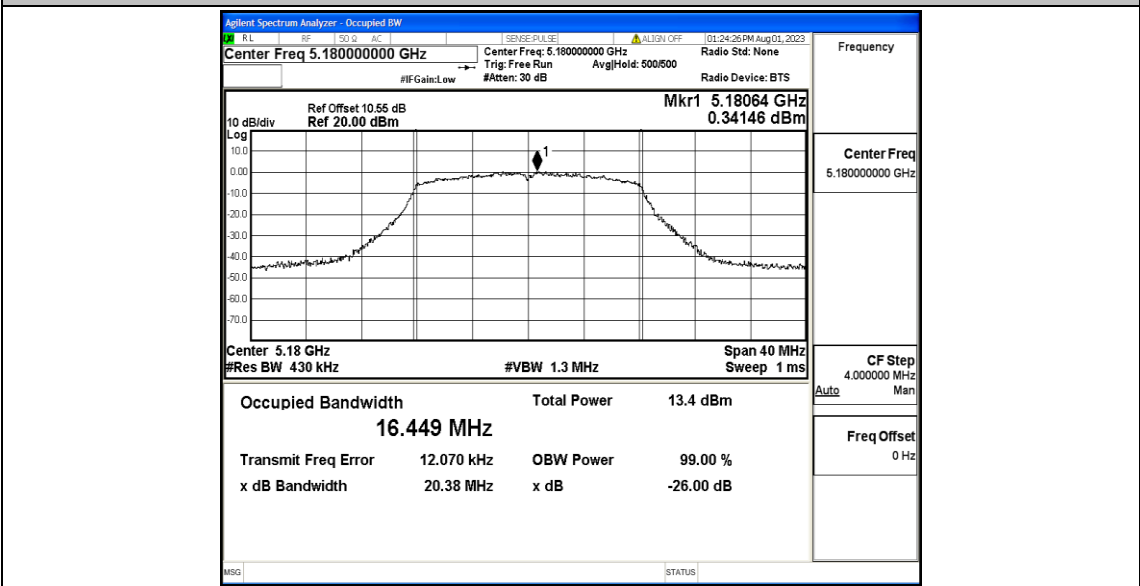
11N40SISO_Ant1_5190



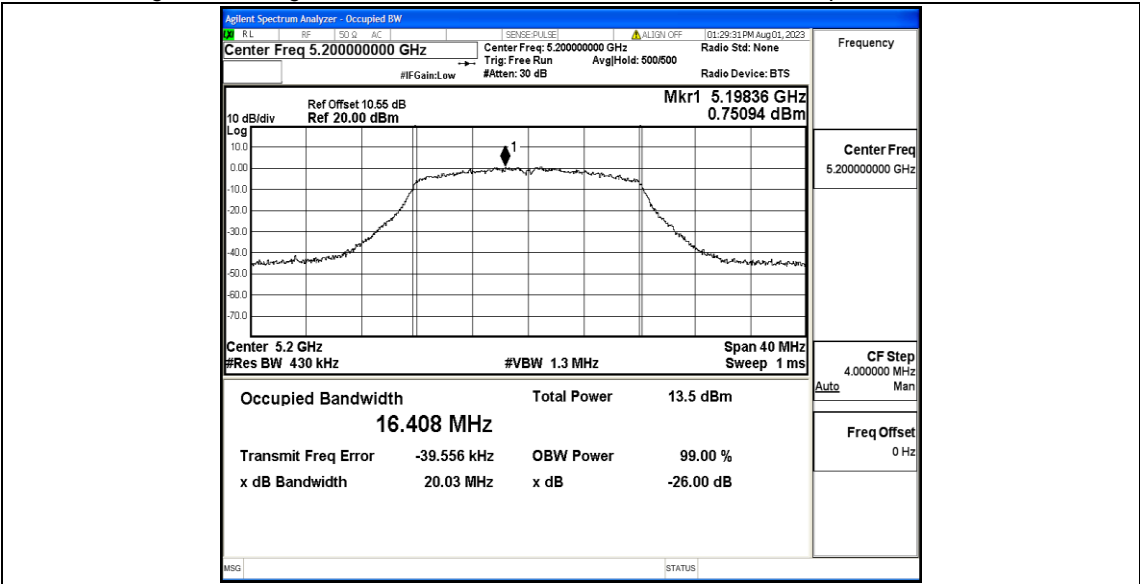
11N40SISO_Ant1_5230



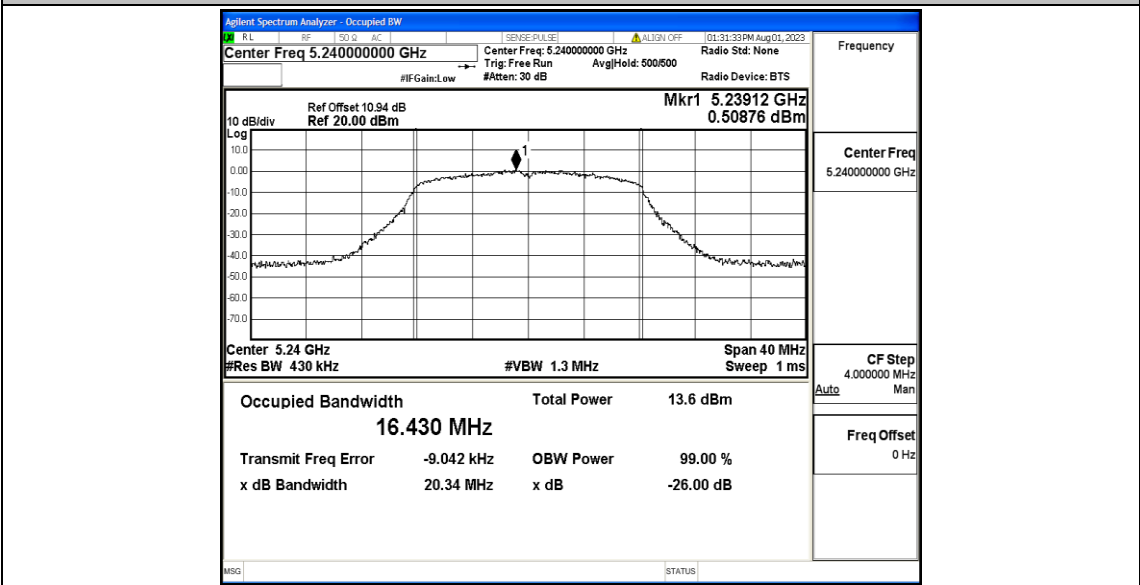
11AC20SISO_Ant1_5180



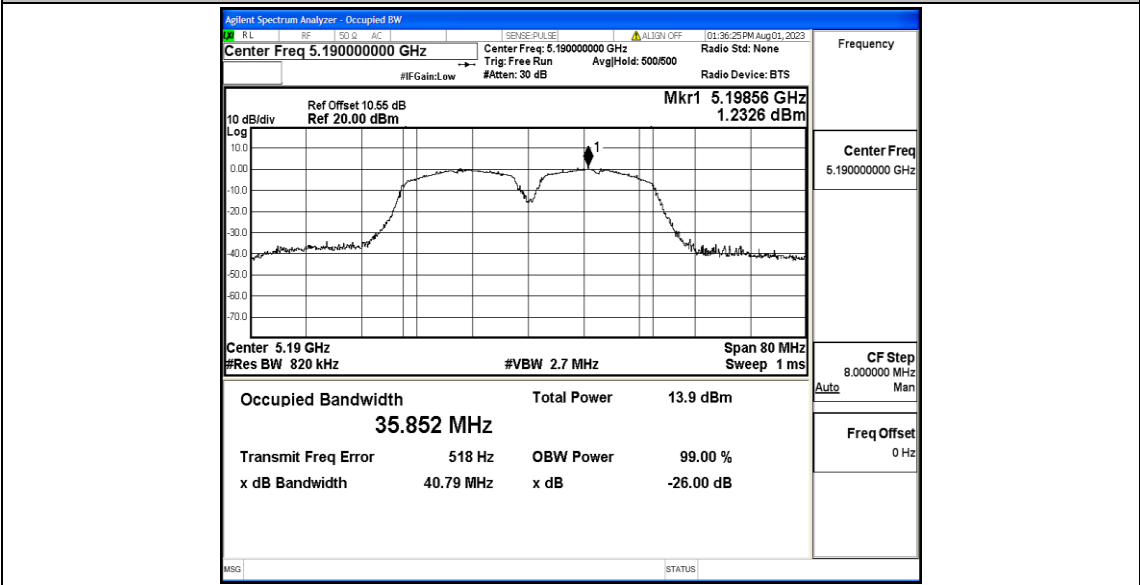
11AC20SISO_Ant1_5200



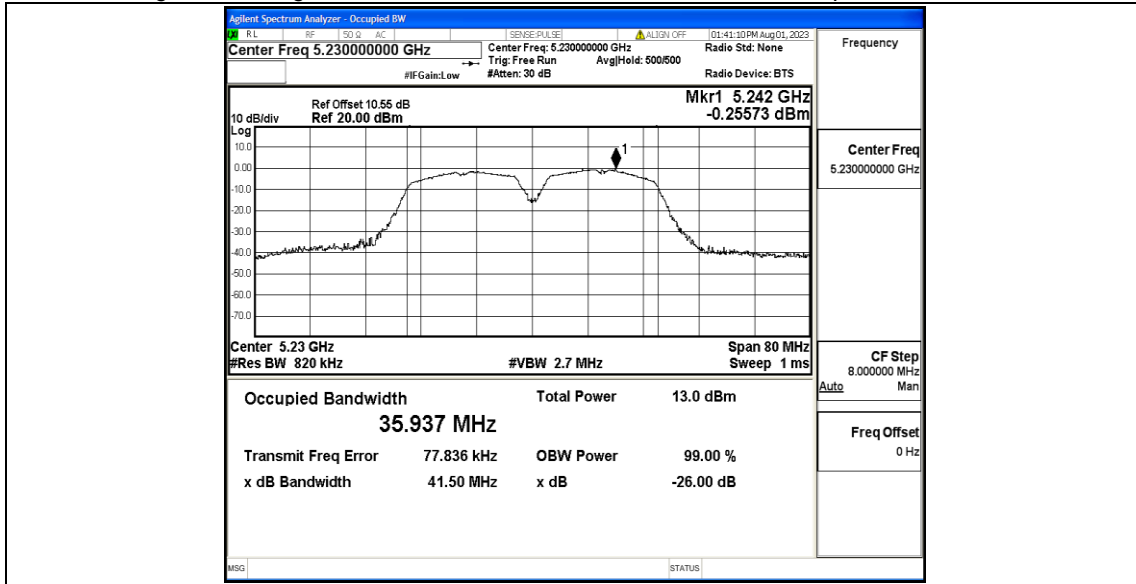
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



Appendix B: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5180	9.05	≤23.98	PASS
		5200	10.23	≤23.98	PASS
		5240	9.88	≤23.98	PASS
11N20SISO	Ant1	5180	8.05	≤23.98	PASS
		5200	8.12	≤23.98	PASS
		5240	8.27	≤23.98	PASS
11N40SISO	Ant1	5190	7.43	≤23.98	PASS
		5230	3.62	≤23.98	PASS
11AC20SISO	Ant1	5180	6.97	≤23.98	PASS
		5200	6.95	≤23.98	PASS
		5240	7.05	≤23.98	PASS
11AC40SISO	Ant1	5190	6.54	≤23.98	PASS
		5230	6.07	≤23.98	PASS

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

Appendix C: Maximum power spectral density

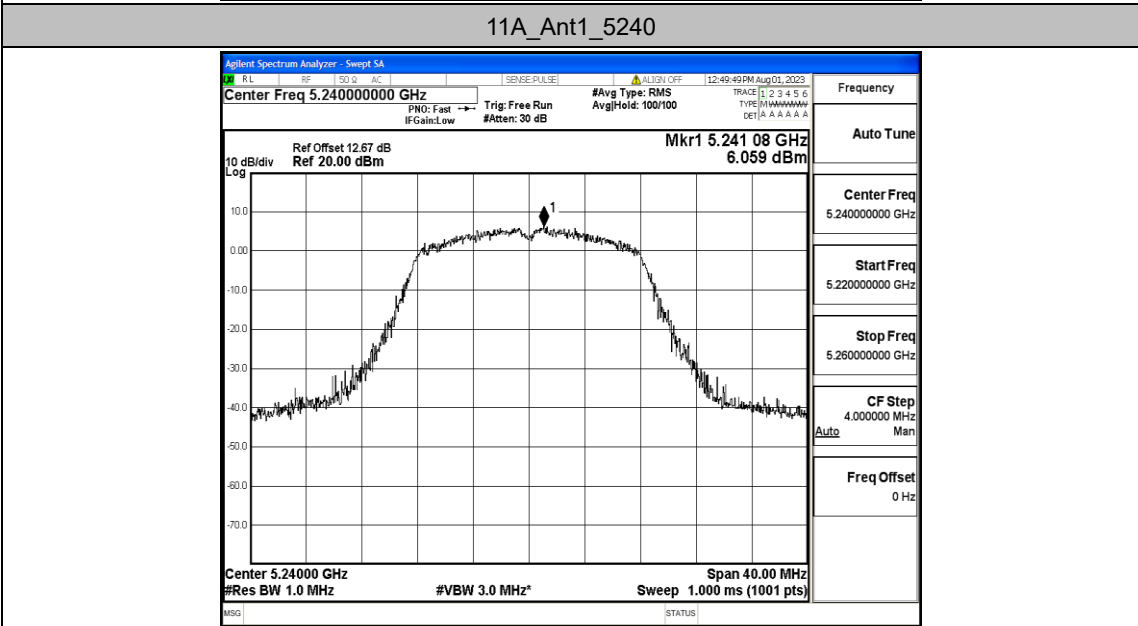
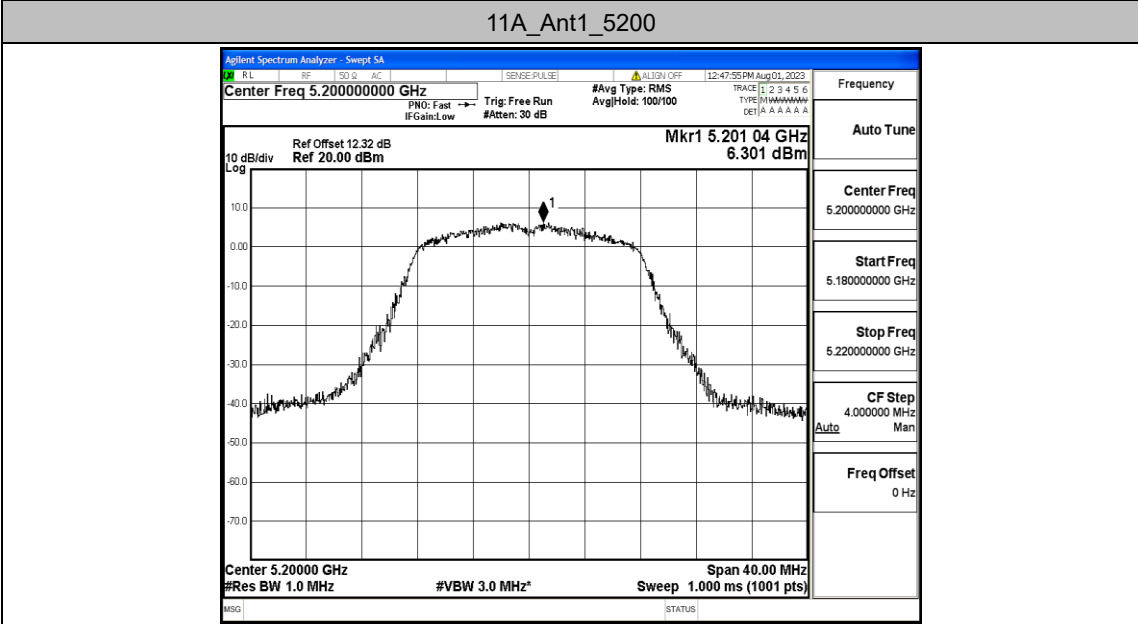
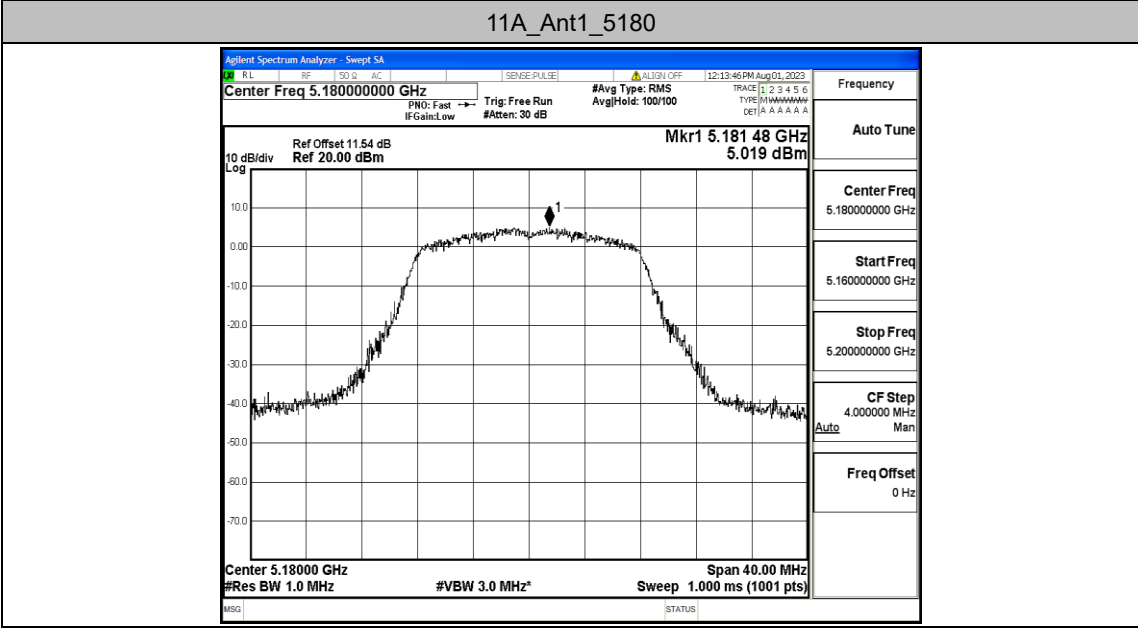
Test Result

TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5180	5.02	≤11.00	PASS
		5200	6.3	≤11.00	PASS
		5240	6.06	≤11.00	PASS
11N20SISO	Ant1	5180	4.29	≤11.00	PASS
		5200	4.37	≤11.00	PASS
		5240	4.26	≤11.00	PASS
11N40SISO	Ant1	5190	4.78	≤11.00	PASS
		5230	0.94	≤11.00	PASS
11AC20SISO	Ant1	5180	3.13	≤11.00	PASS
		5200	3.55	≤11.00	PASS
		5240	3.23	≤11.00	PASS
11AC40SISO	Ant1	5190	-0.11	≤11.00	PASS
		5230	-0.34	≤11.00	PASS

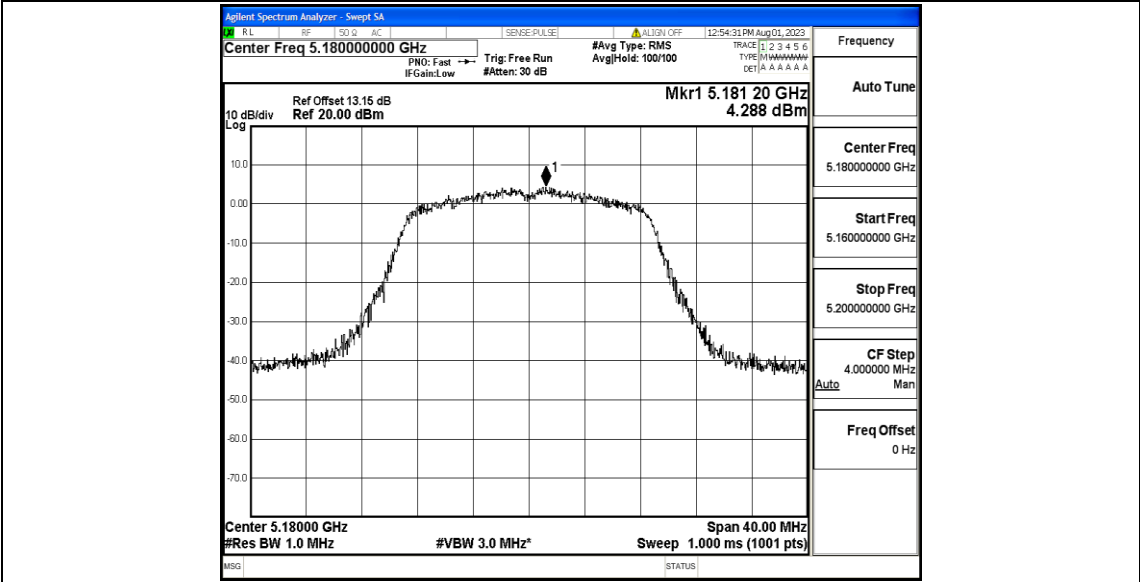
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

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

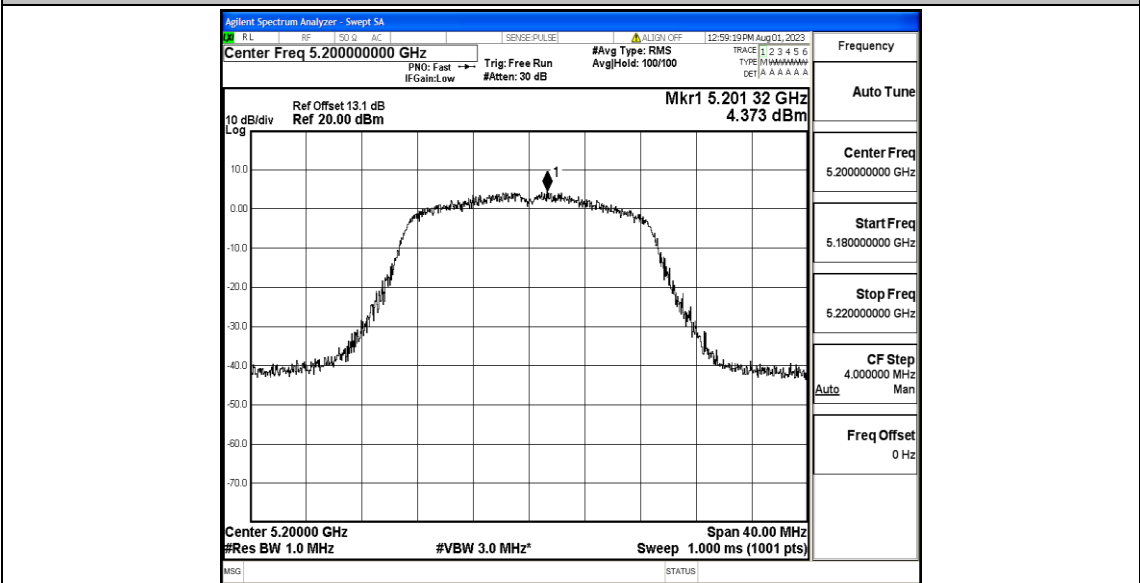
Test Graphs



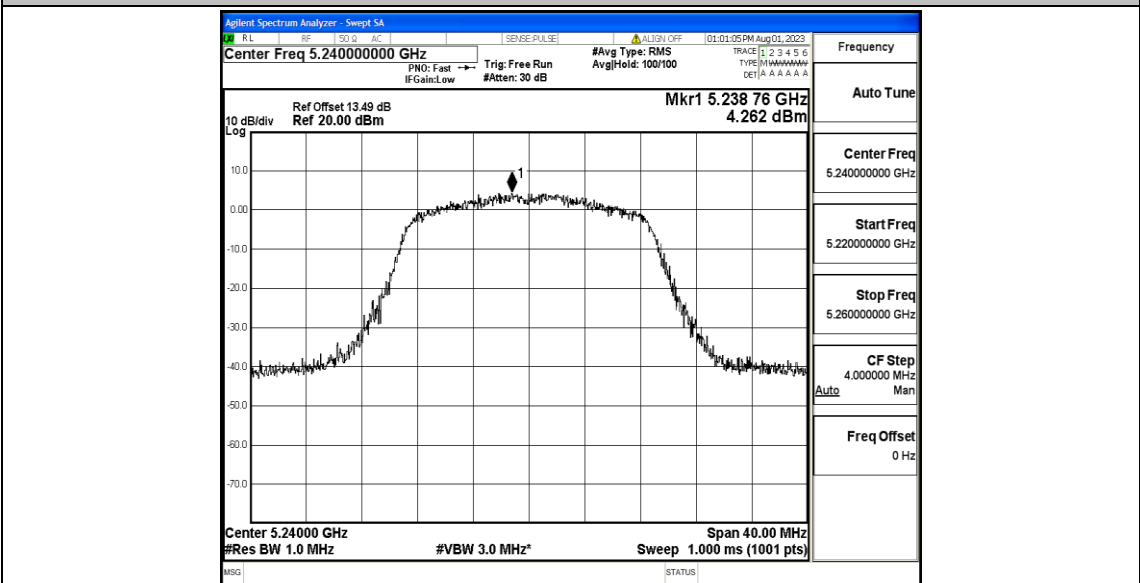
11N20SISO_Ant1_5180



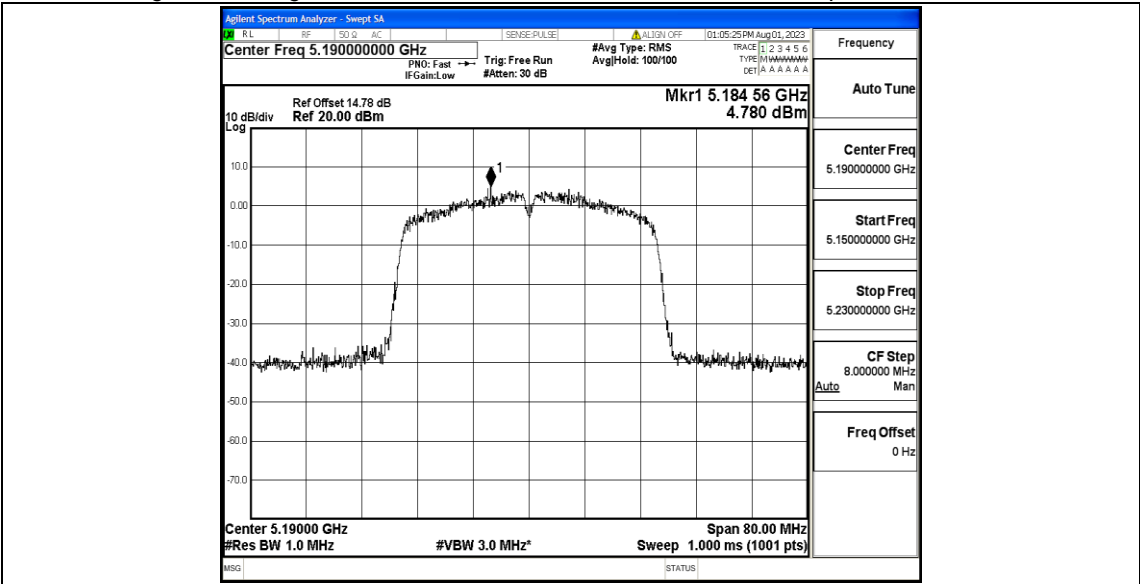
11N20SISO_Ant1_5200



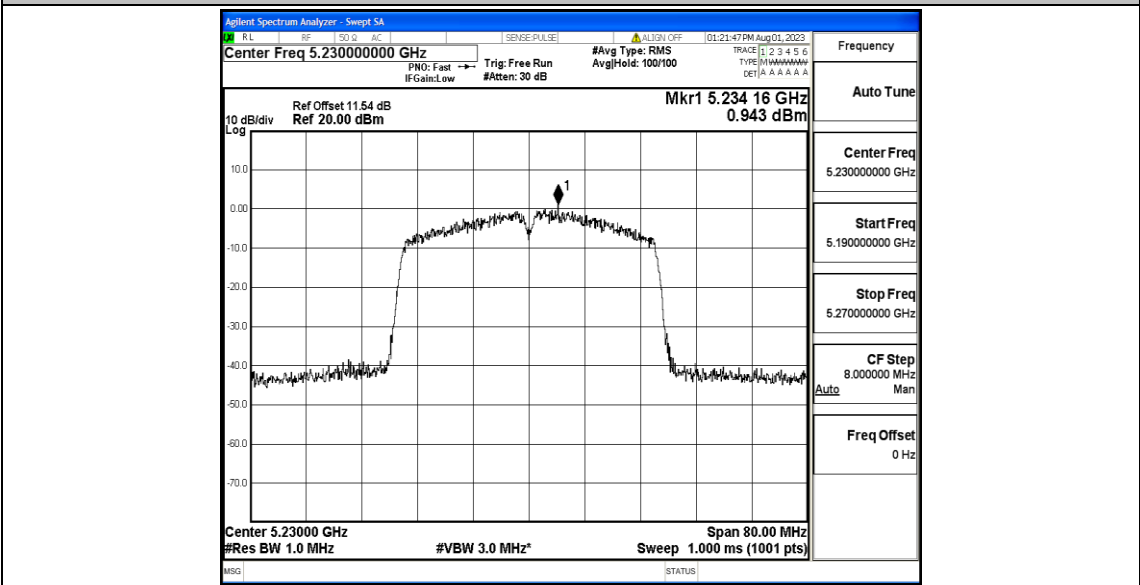
11N20SISO_Ant1_5240



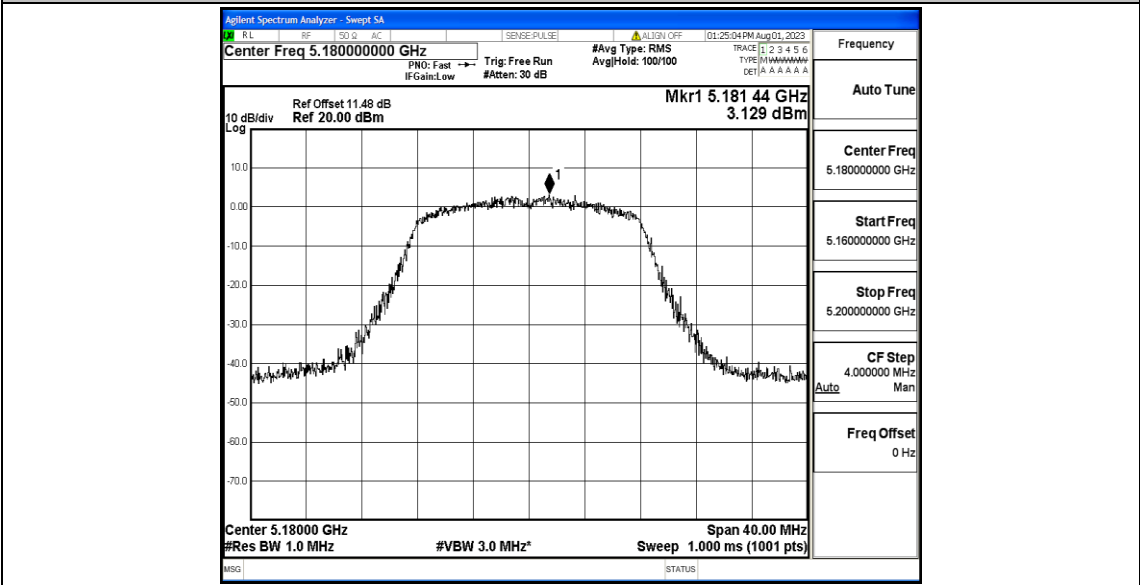
11N40SISO_Ant1_5190



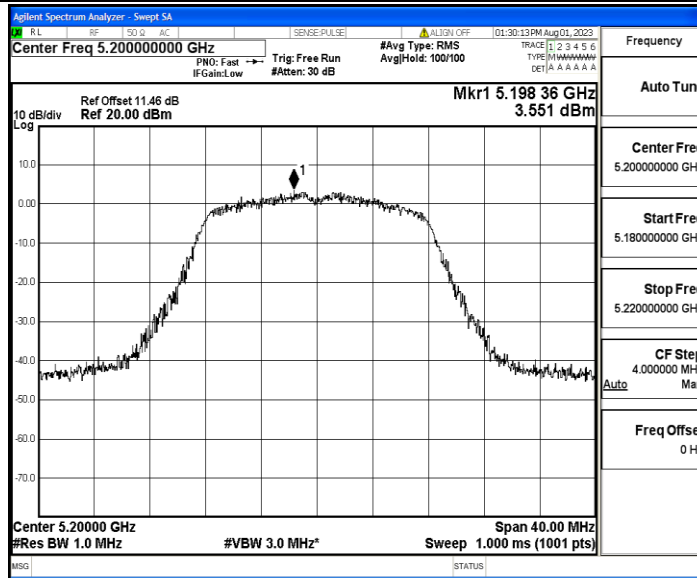
11N40SISO_Ant1_5230



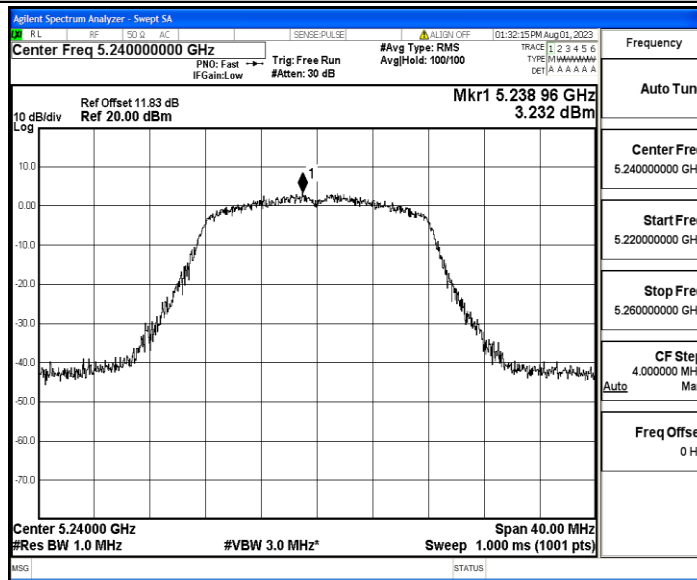
11AC20SISO_Ant1_5180



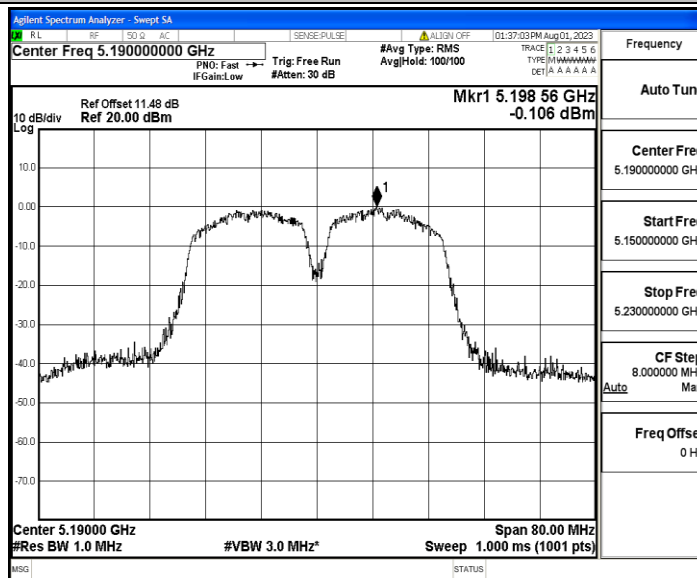
11AC20SISO_Ant1_5200



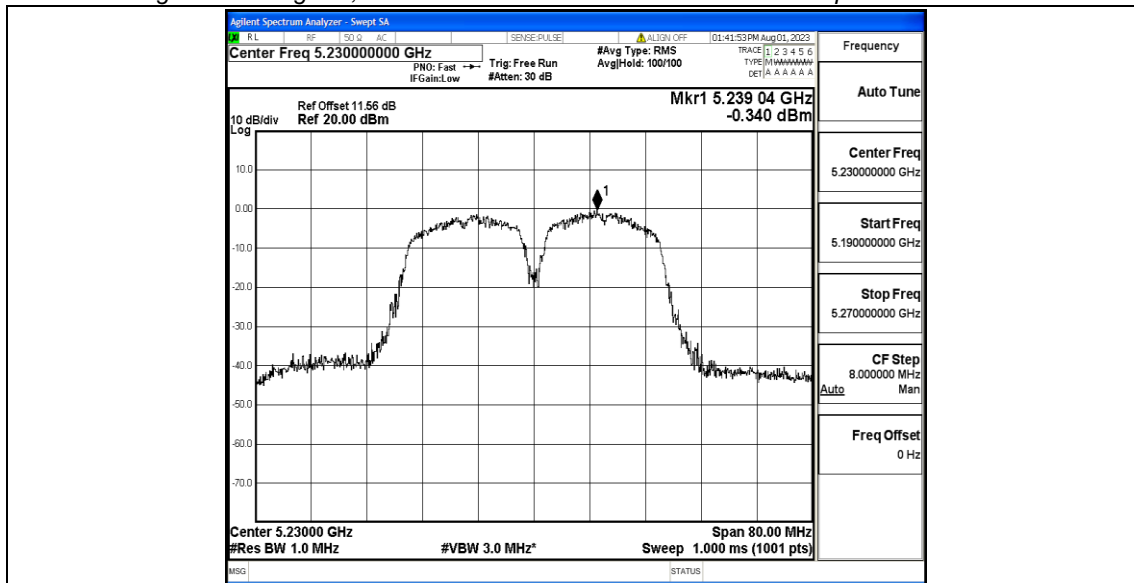
11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230

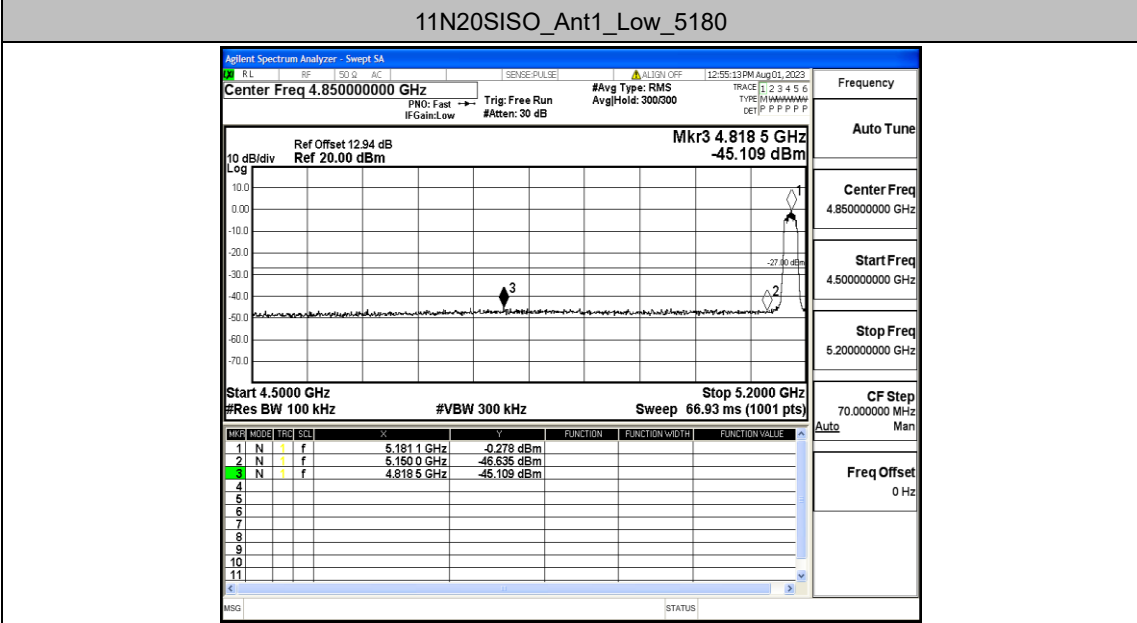
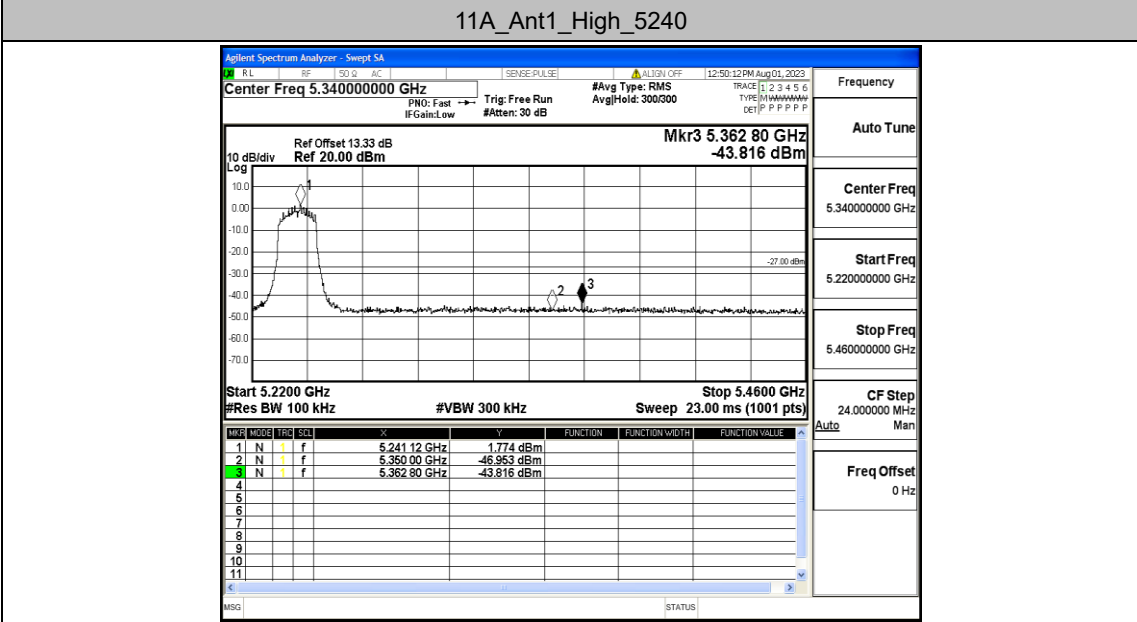
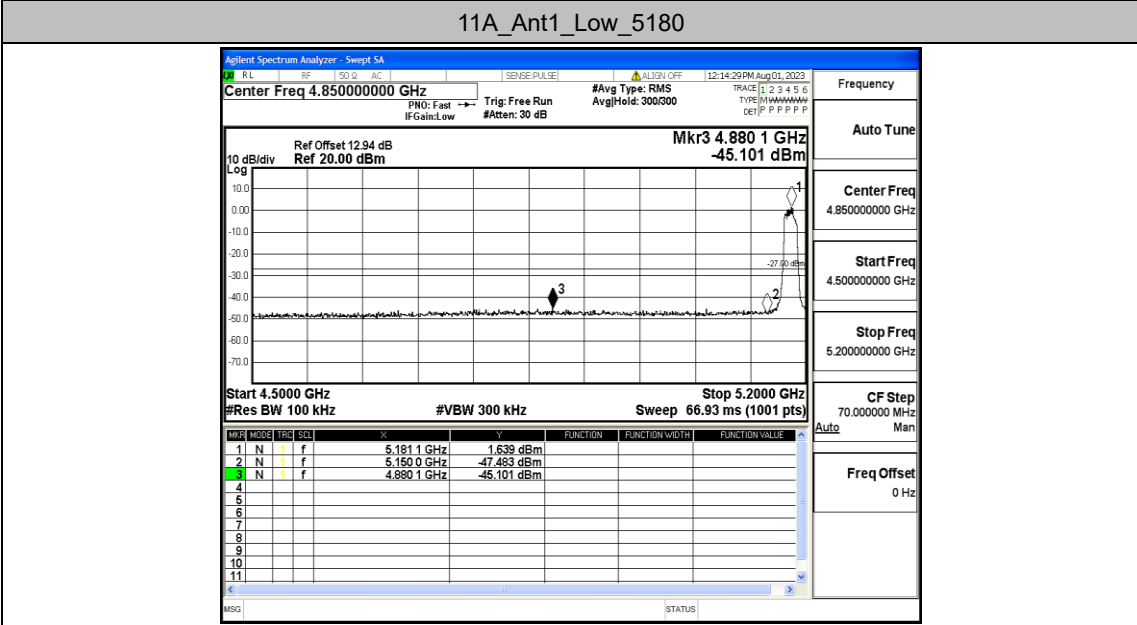


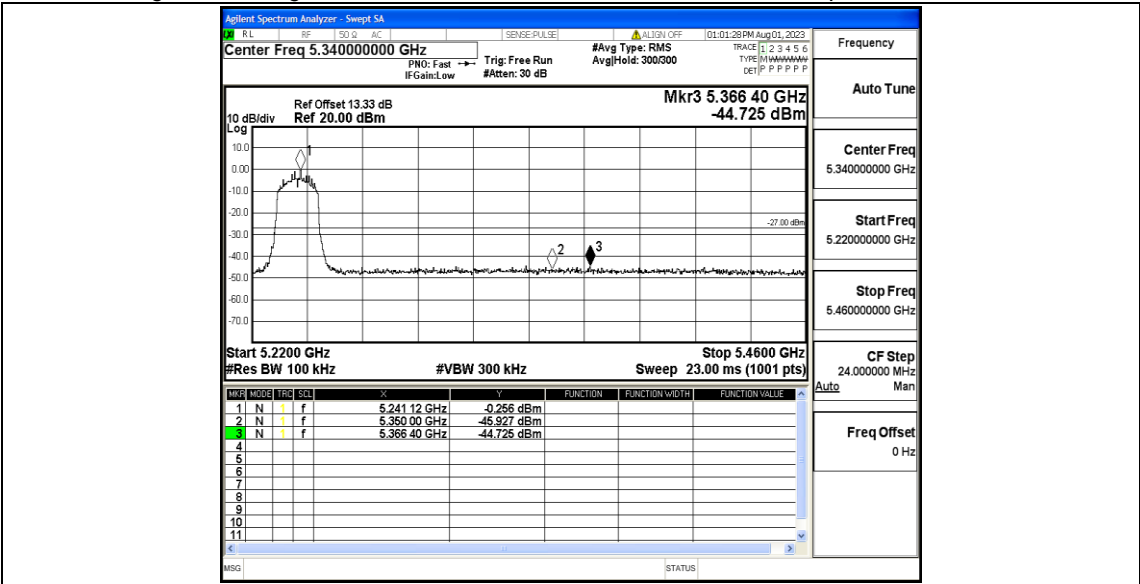
Appendix D: Band edge measurements

Test Result

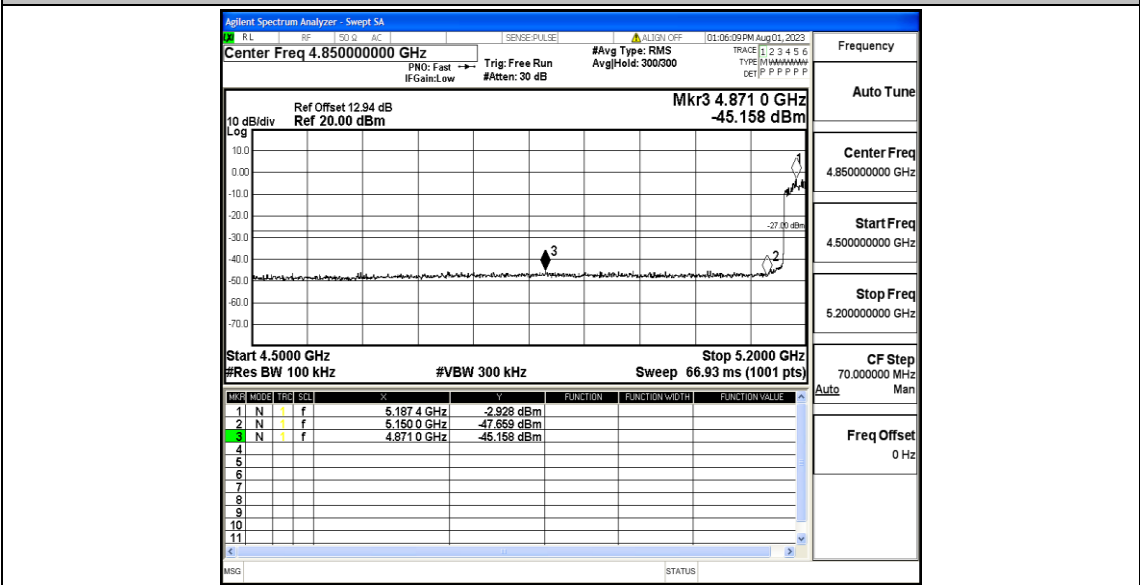
TestMode	Antenna	ChName	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	Low	5180	-45.1	≤ -27	PASS
		High	5240	-43.82	≤ -27	PASS
11N20SISO	Ant1	Low	5180	-45.11	≤ -27	PASS
		High	5240	-44.73	≤ -27	PASS
11N40SISO	Ant1	Low	5190	-45.16	≤ -27	PASS
		High	5230	-45.14	≤ -27	PASS
11AC20SISO	Ant1	Low	5180	-45.15	≤ -27	PASS
		High	5240	-45	≤ -27	PASS
11AC40SISO	Ant1	Low	5190	-45.23	≤ -27	PASS
		High	5230	-45.19	≤ -27	PASS

Test Graphs

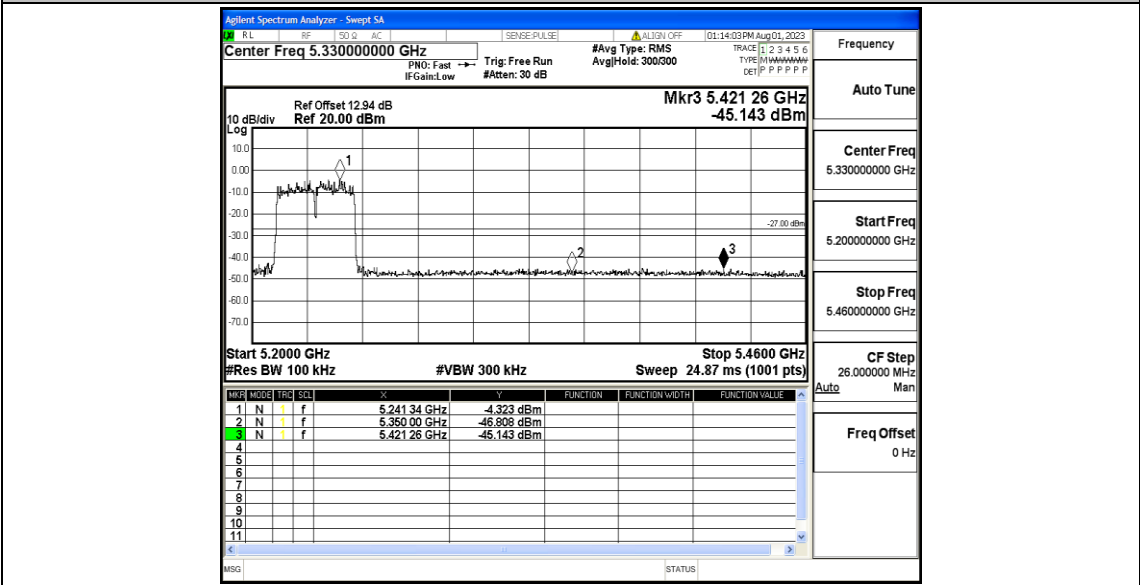




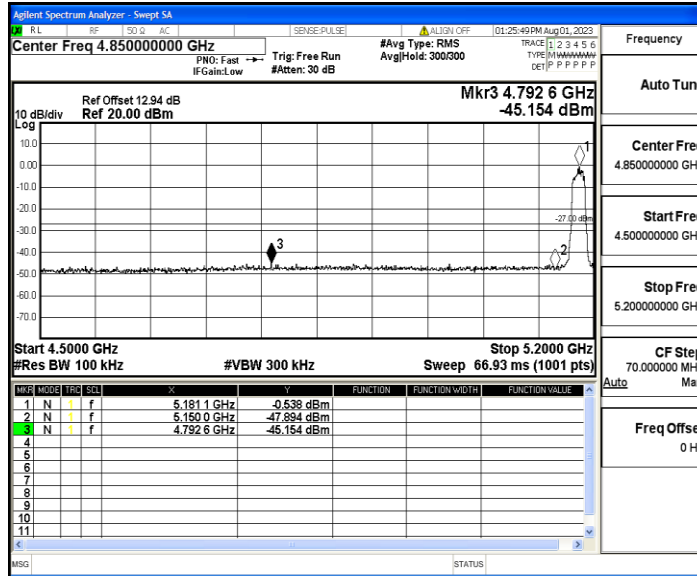
11N40SISO_Ant1_Low_5190



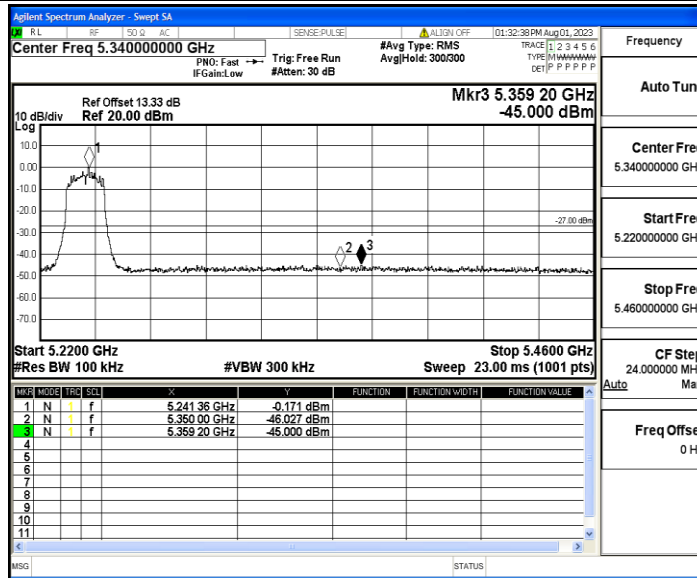
11N40SISO_Ant1_High_5230



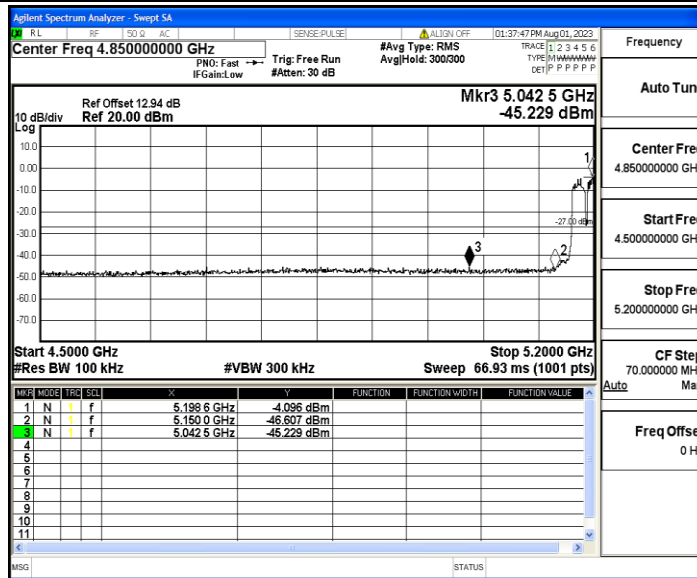
11A20SISO_Ant1_Low_5180



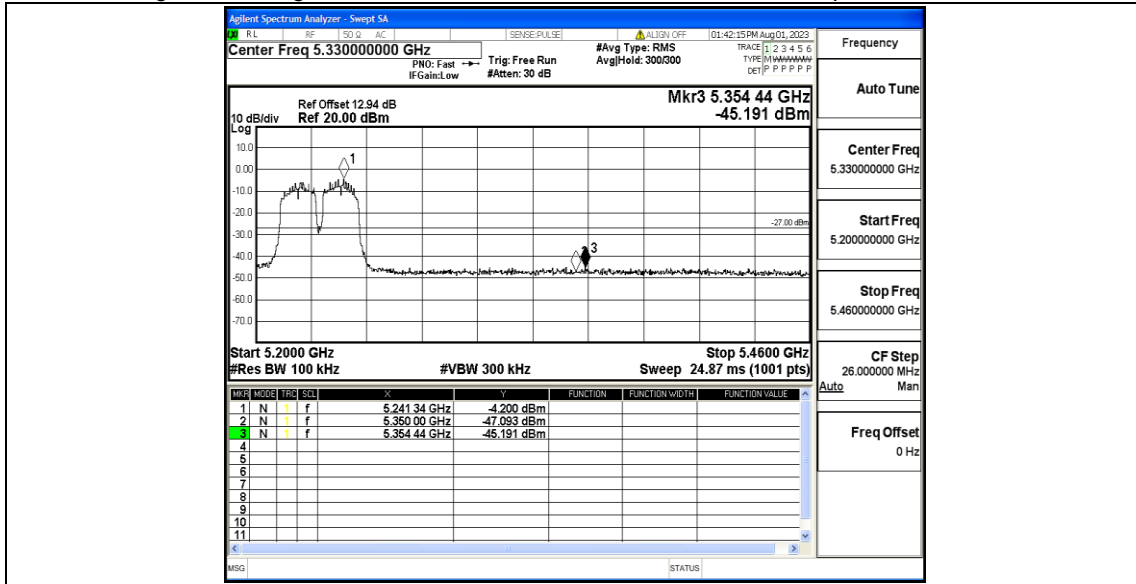
11AC20SISO_Ant1_High_5240



11AC40SISO_Ant1_Low_5190



11AC40SISO_Ant1_High_5230



Appendix E: Frequency Stability

Test Result

Ant1

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5180	20	132	5179.973431	5150 – 5250	PASS
5180	20	108	5179.954913	5150 – 5250	PASS
5180	50	120	5179.963181	5150 – 5250	PASS
5180	40	120	5180.074462	5150 – 5250	PASS
5180	30	120	5180.033584	5150 – 5250	PASS
5180	20	120	5179.986648	5150 – 5250	PASS
5180	10	120	5180.005003	5150 – 5250	PASS
5180	0	120	5179.986654	5150 – 5250	PASS
5180	-10	120	5180.010711	5150 – 5250	PASS
5180	-20	120	5180.005615	5150 – 5250	PASS
5180	-30	120	5179.989042	5150 – 5250	PASS

Ant1

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5200	20	132	5200.020223	5150 – 5250	PASS
5200	20	108	5199.975559	5150 – 5250	PASS
5200	50	120	5199.908983	5150 – 5250	PASS
5200	40	120	5199.937183	5150 – 5250	PASS
5200	30	120	5199.925651	5150 – 5250	PASS
5200	20	120	5199.974181	5150 – 5250	PASS
5200	10	120	5200.002517	5150 – 5250	PASS
5200	0	120	5199.922496	5150 – 5250	PASS
5200	-10	120	5200.020343	5150 – 5250	PASS
5200	-20	120	5199.902358	5150 – 5250	PASS
5200	-30	120	5199.929159	5150 – 5250	PASS

Ant1

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5240	20	132	5240.040498	5150 – 5250	PASS
5240	20	108	5240.005590	5150 – 5250	PASS
5240	50	120	5240.003117	5150 – 5250	PASS
5240	40	120	5240.020393	5150 – 5250	PASS
5240	30	120	5239.964355	5150 – 5250	PASS
5240	20	120	5240.065702	5150 – 5250	PASS
5240	10	120	5239.942780	5150 – 5250	PASS
5240	0	120	5239.991430	5150 – 5250	PASS
5240	-10	120	5239.965629	5150 – 5250	PASS
5240	-20	120	5239.965152	5150 – 5250	PASS
5240	-30	120	5239.964249	5150 – 5250	PASS

Ant1

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5190	20	132	5189.925344	5150 – 5250	PASS
5190	20	108	5189.984562	5150 – 5250	PASS
5190	50	120	5189.994074	5150 – 5250	PASS
5190	40	120	5190.085004	5150 – 5250	PASS
5190	30	120	5189.971974	5150 – 5250	PASS
5190	20	120	5189.984040	5150 – 5250	PASS
5190	10	120	5190.024164	5150 – 5250	PASS
5190	0	120	5189.998026	5150 – 5250	PASS
5190	-10	120	5190.023562	5150 – 5250	PASS
5190	-20	120	5190.084792	5150 – 5250	PASS
5190	-30	120	5189.963556	5150 – 5250	PASS

Ant1

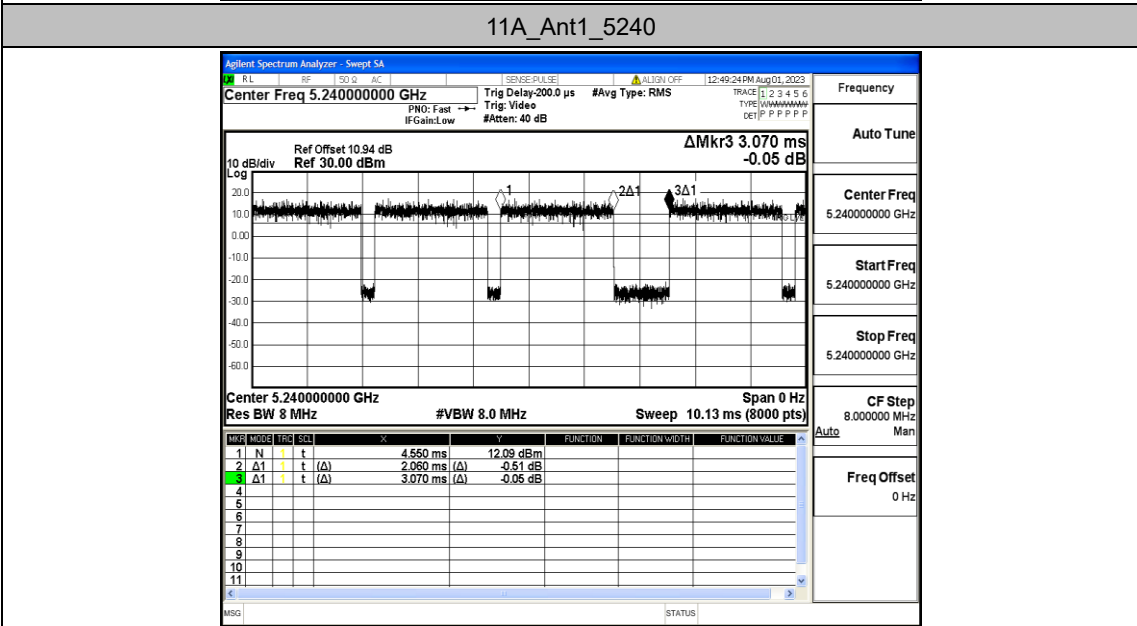
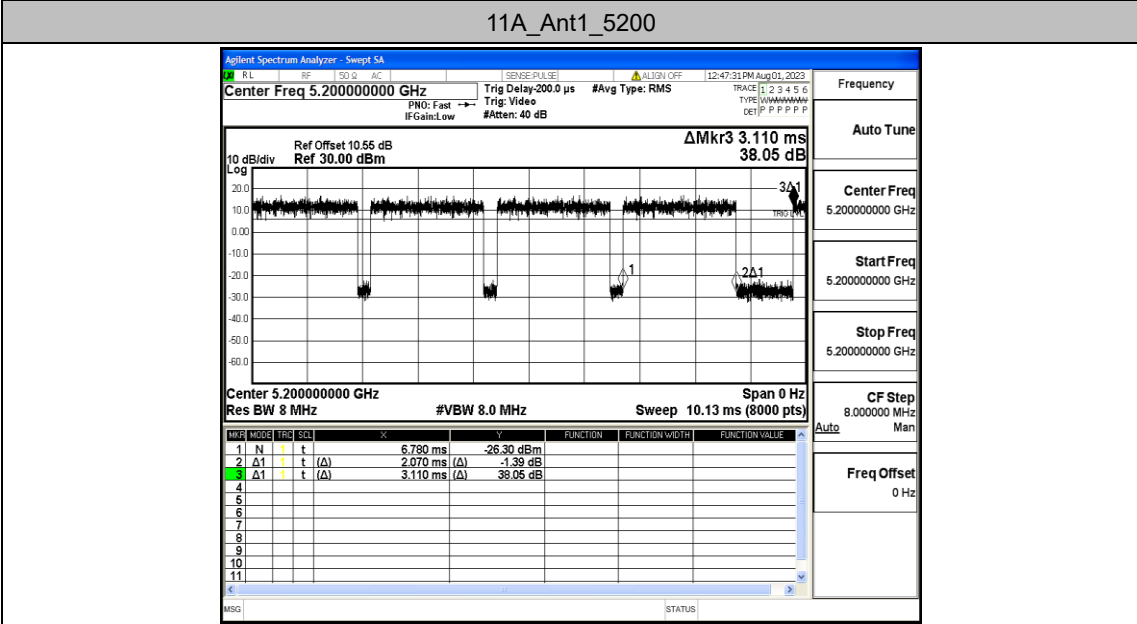
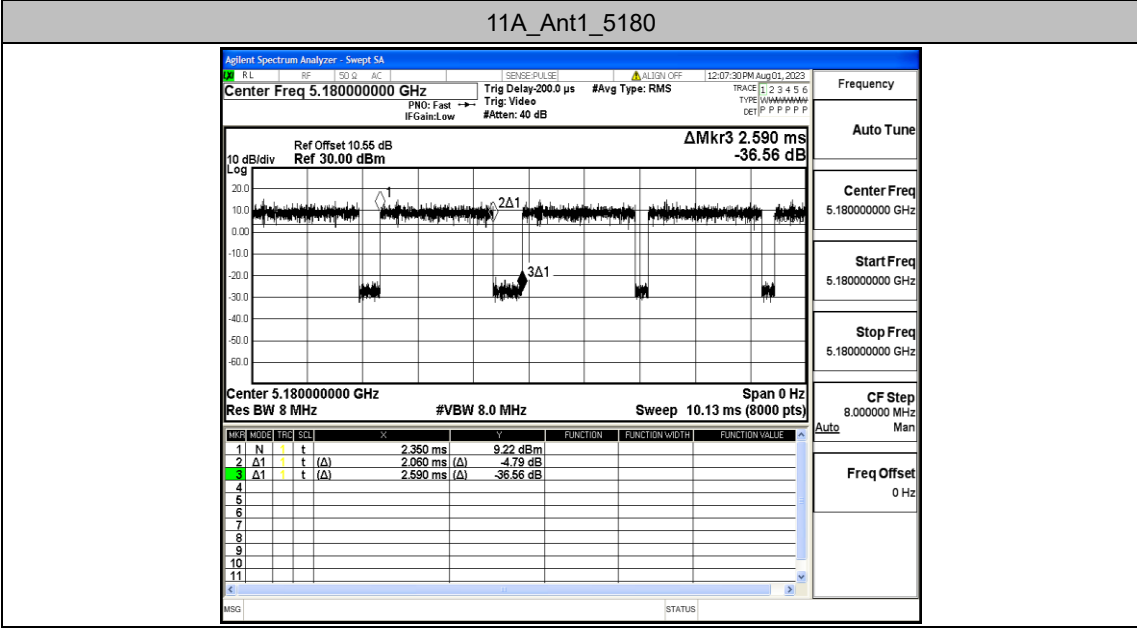
Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5230	20	132	5230.067281	5150 – 5250	PASS
5230	20	108	5230.002227	5150 – 5250	PASS
5230	50	120	5230.011414	5150 – 5250	PASS
5230	40	120	5229.967987	5150 – 5250	PASS
5230	30	120	5230.023019	5150 – 5250	PASS
5230	20	120	5229.942873	5150 – 5250	PASS
5230	10	120	5230.051866	5150 – 5250	PASS
5230	0	120	5230.072619	5150 – 5250	PASS
5230	-10	120	5229.930539	5150 – 5250	PASS
5230	-20	120	5230.094333	5150 – 5250	PASS
5230	-30	120	5230.097098	5150 – 5250	PASS

Appendix F: Duty Cycle

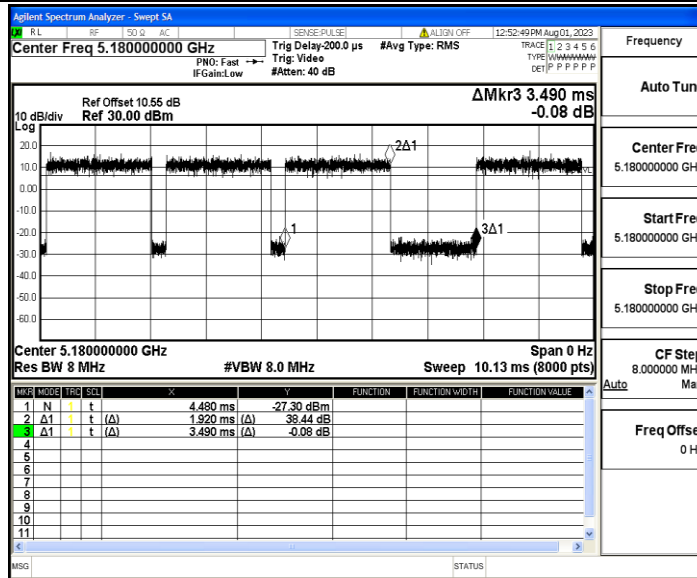
Test Result

TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T [kHz]
11A	Ant1	5180	2.06	2.59	79.54	0.49
		5200	2.07	3.11	66.56	0.48
		5240	2.06	3.07	67.10	0.49
11N20SISO	Ant1	5180	1.92	3.49	55.01	0.52
		5200	1.92	3.45	55.65	0.52
		5240	1.92	3.45	55.65	0.52
11N40SISO	Ant1	5190	3.78	10.02	37.72	0.26
		5230	0.94	1.18	79.66	1.06
11AC20SISO	Ant1	5180	2.06	2.55	80.78	0.49
		5200	2.06	2.54	81.10	0.49
		5240	2.06	2.53	81.42	0.49
11AC40SISO	Ant1	5190	2.06	2.55	80.78	0.49
		5230	2.07	2.61	79.31	0.48

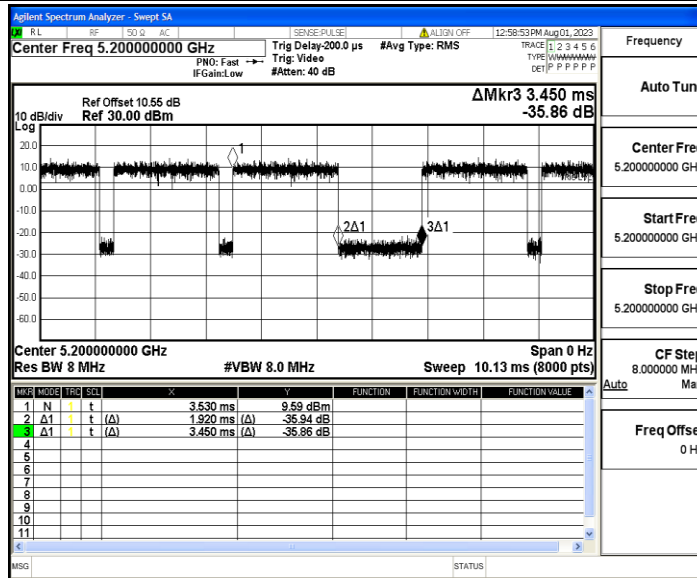
Test Graphs



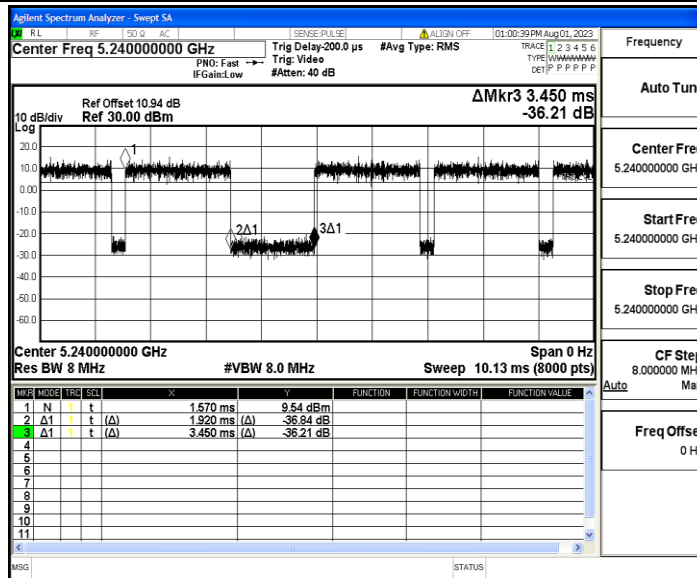
11N20SISO_Ant1_5180



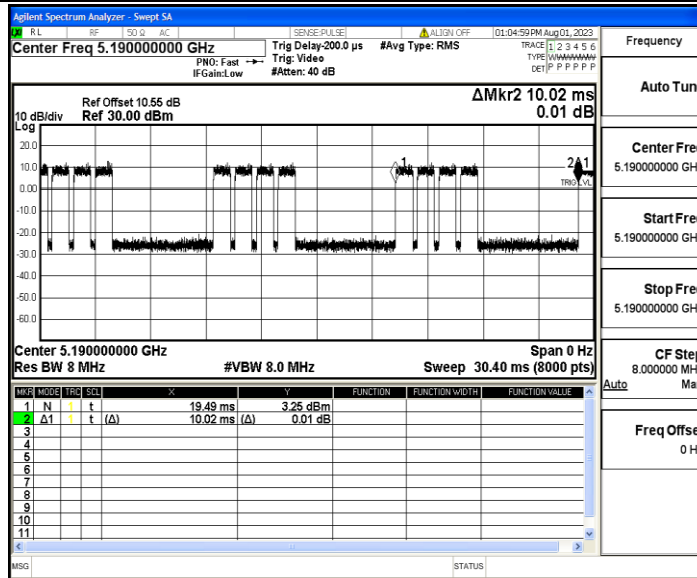
11N20SISO_Ant1_5200



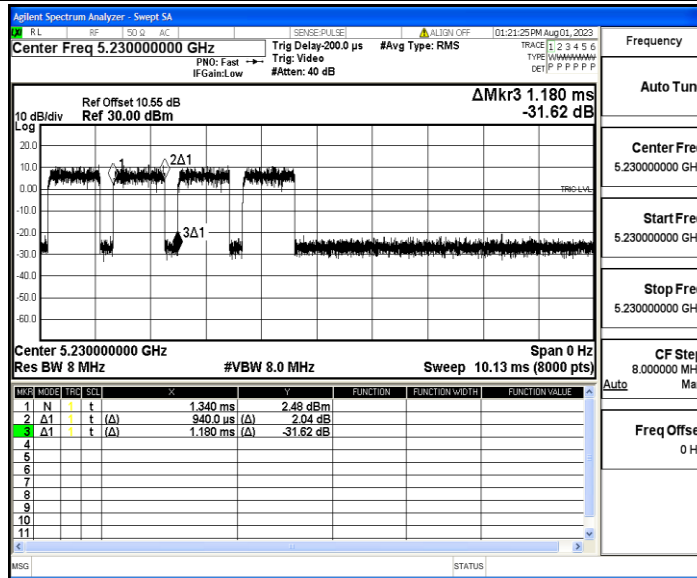
11N20SISO_Ant1_5240



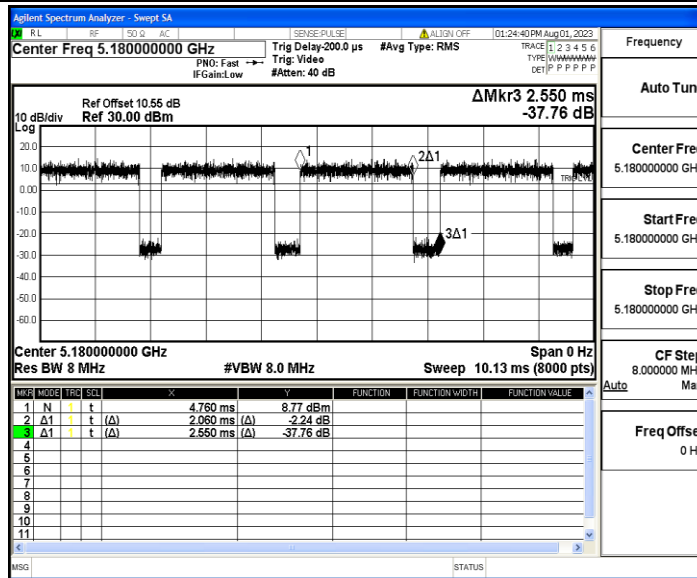
11N40SISO_Ant1_5190



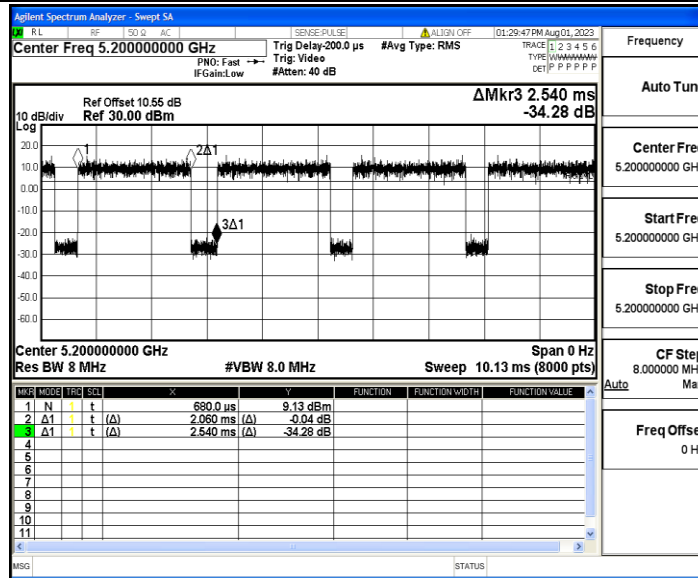
11N40SISO_Ant1_5230



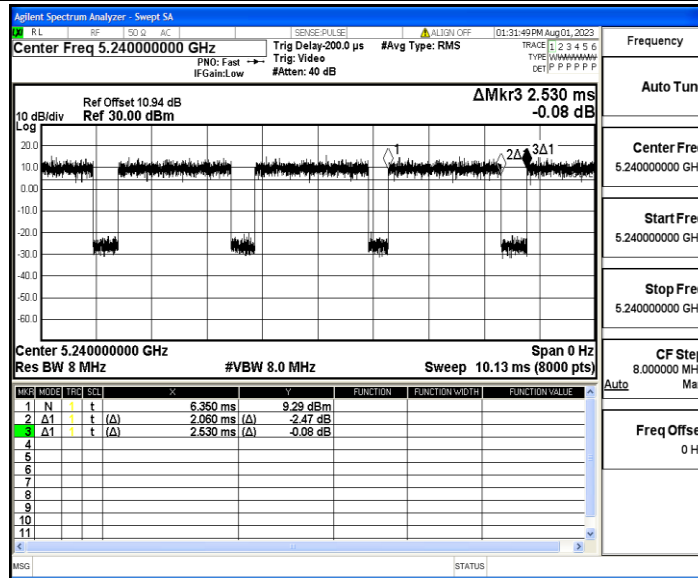
11AC20SISO_Ant1_5180



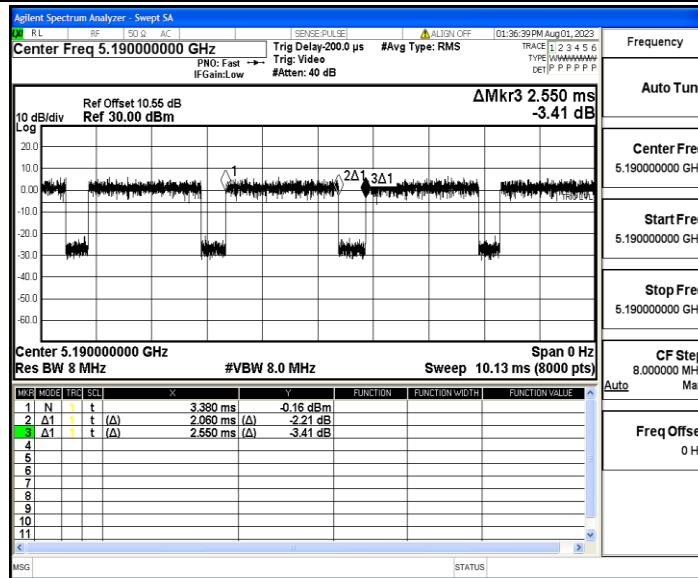
11AC20SISO_Ant1_5200



11AC20SISO_Ant1_5240



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230

