

Appendix RF Test Data for 5GWIFI

FCC ID : 2AXCX-NT510PRO

Company : Shenzhen Foxwell Technology Co., Ltd

EUT : Multi-System Scanner&Battery Tester

Model Number : NT510Pro

Report No. : CTA25081402002

Reviewed By : Eric Wang

Appendix A1: Emission Bandwidth

Test Result

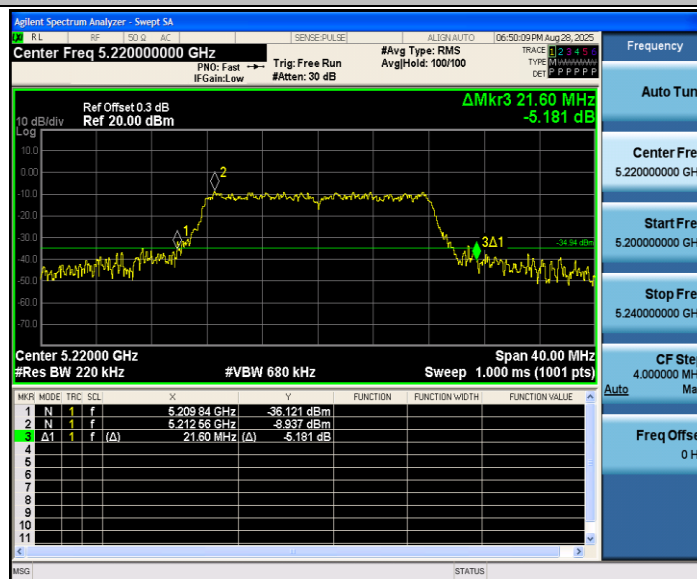
TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	24.680	5166.640	5191.320	---	---
		5220	21.600	5209.840	5231.440	---	---
		5240	22.960	5227.680	5250.640	---	---
		5745	21.960	5733.320	5755.280	---	---
		5785	20.040	5774.600	5794.640	---	---
		5825	21.280	5814.280	5835.560	---	---
11N20SISO	Ant1	5180	26.320	5169.320	5195.640	---	---
		5220	28.320	5205.440	5233.760	---	---
		5240	25.080	5226.520	5251.600	---	---
		5745	23.240	5732.240	5755.480	---	---
		5785	26.120	5769.720	5795.840	---	---
		5825	27.120	5811.680	5838.800	---	---
11N40SISO	Ant1	5190	43.520	5168.720	5212.240	---	---
		5230	39.600	5210.320	5249.920	---	---
		5755	40.160	5734.600	5774.760	---	---
		5795	39.520	5775.160	5814.680	---	---

Test Graphs

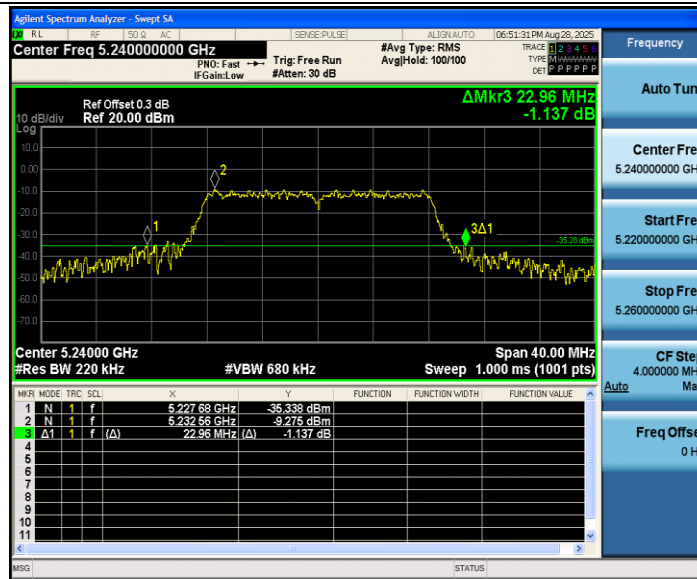
11A_Ant1_5180



11A_Ant1_5220



11A_Ant1_5240



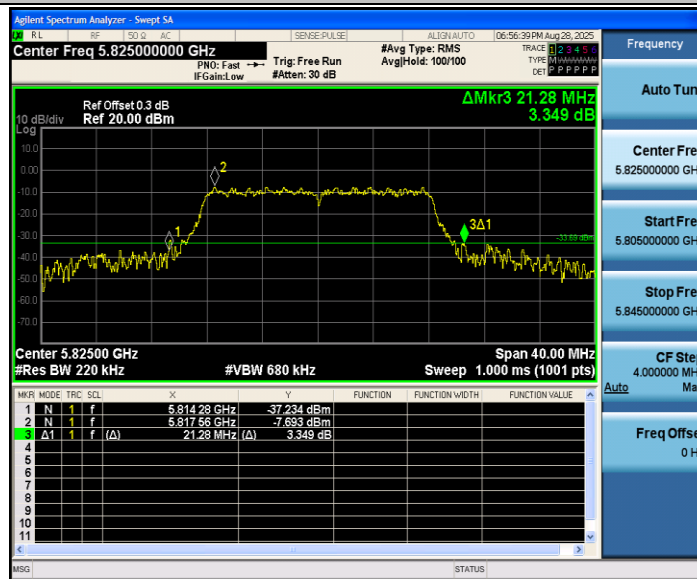
11A_Ant1_5745



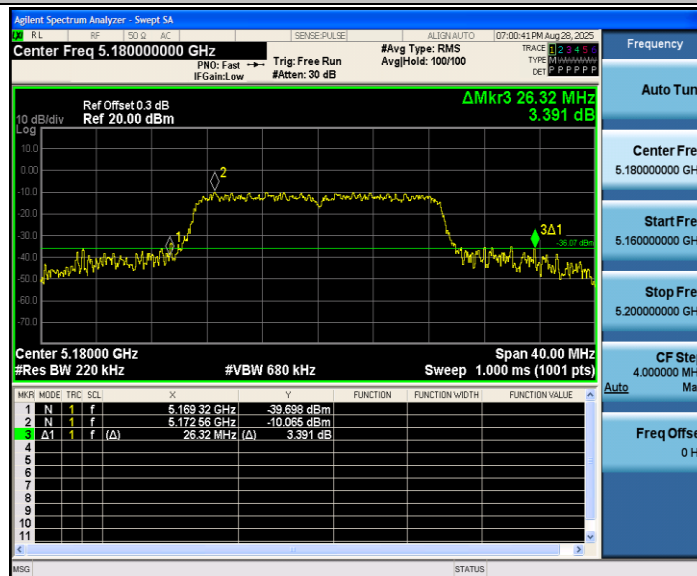
11A_Ant1_5785



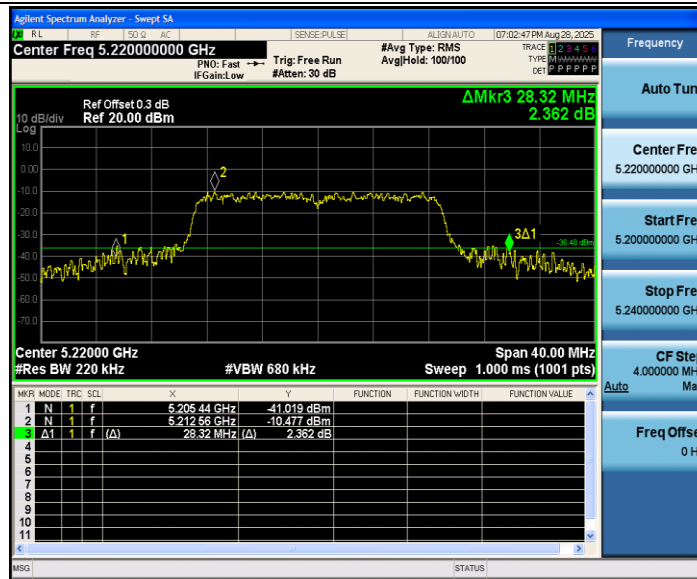
11A_Ant1_5825



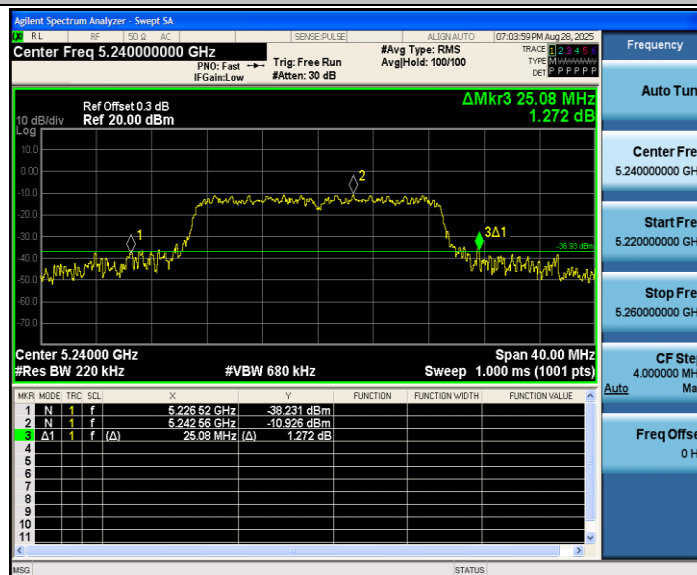
11N20SISO_Ant1_5180



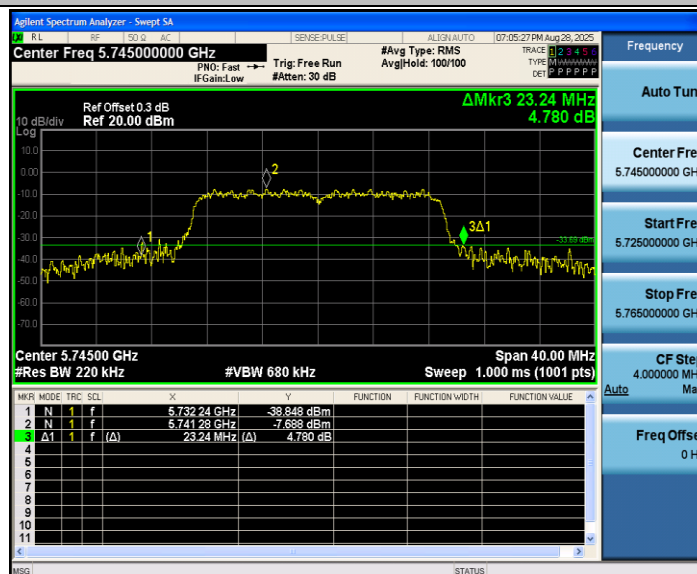
11N20SISO_Ant1_5220



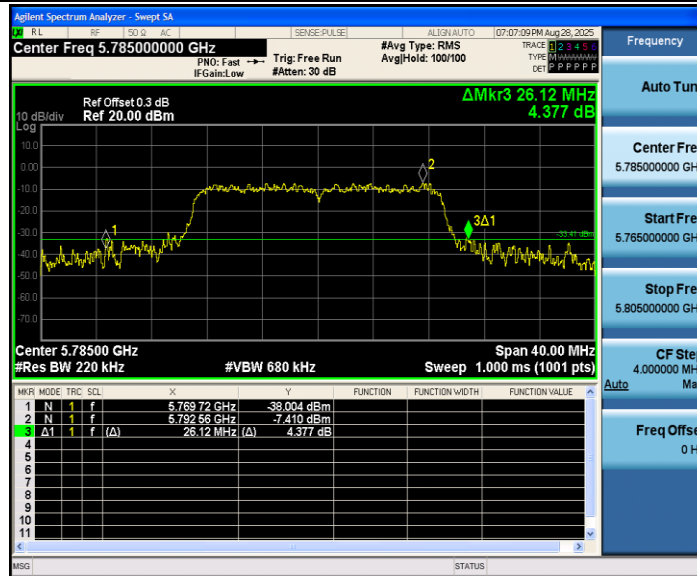
11N20SISO_Ant1_5240



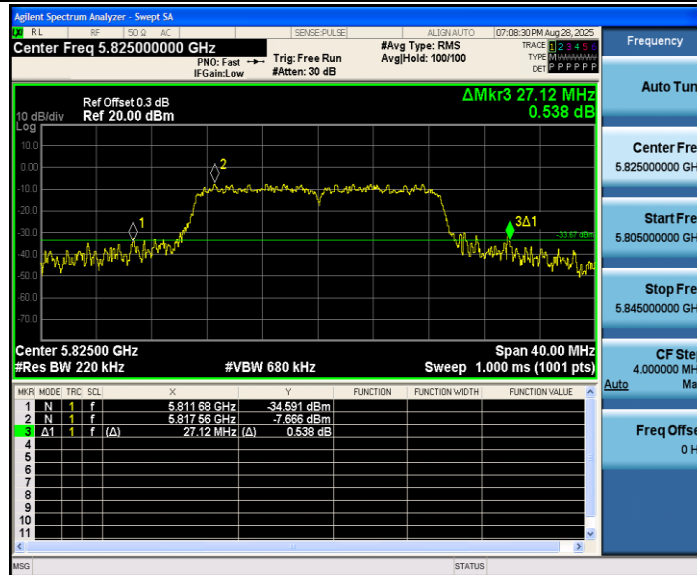
11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



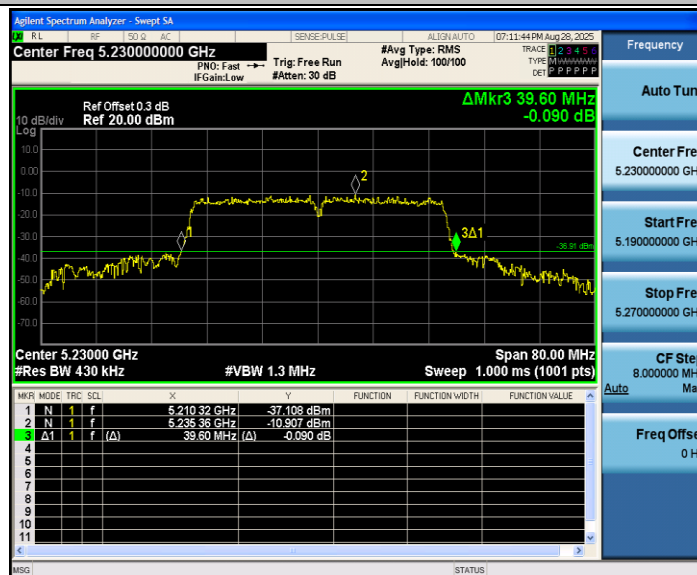
11N20SISO_Ant1_5825



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



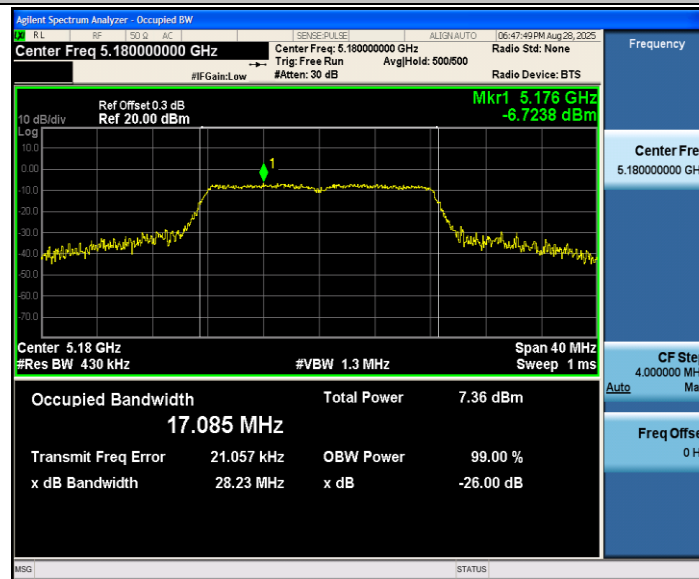
Appendix A2: Occupied channel bandwidth

Test Result

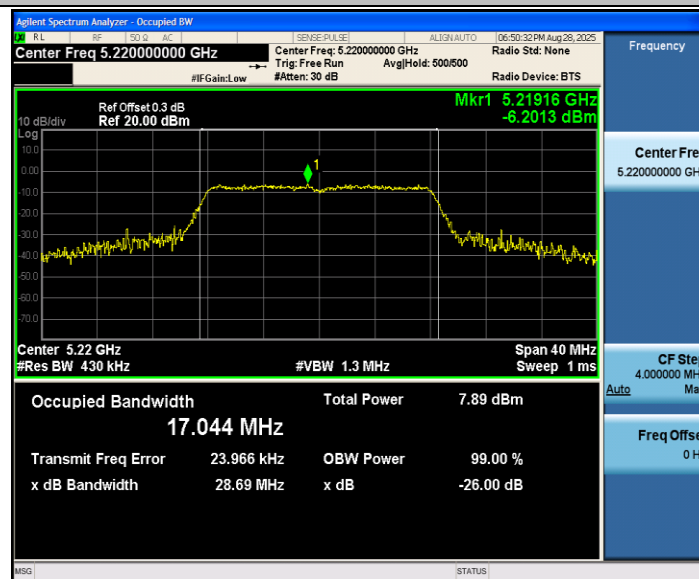
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.085	5171.4786	5188.5636	---	---
		5220	17.044	5211.5020	5228.5460	---	---
		5240	17.098	5231.4798	5248.5778	---	---
		5745	17.065	5736.4751	5753.5401	---	---
		5785	17.099	5776.4699	5793.5689	---	---
		5825	17.061	5816.4822	5833.5432	---	---
11N20SISO	Ant1	5180	17.914	5171.0350	5188.9490	---	---
		5220	17.928	5211.0676	5228.9956	---	---
		5240	17.921	5231.0671	5248.9881	---	---
		5745	17.960	5736.0382	5753.9982	---	---
		5785	17.918	5776.0912	5794.0092	---	---
		5825	17.921	5816.0806	5834.0016	---	---
11N40SISO	Ant1	5190	36.454	5171.7776	5208.2316	---	---
		5230	36.446	5211.7981	5248.2441	---	---
		5755	36.425	5736.8126	5773.2376	---	---
		5795	36.384	5776.8313	5813.2153	---	---

Test Graphs

11A_Ant1_5180



11A_Ant1_5220



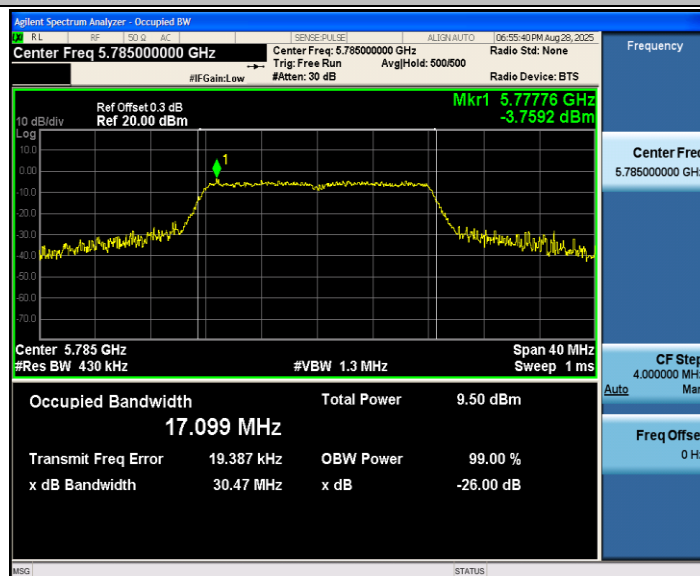
11A_Ant1_5240



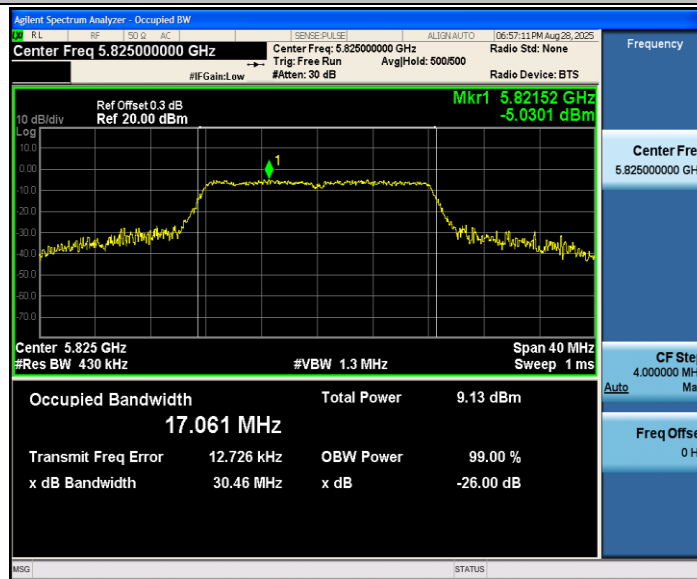
11A_Ant1_5745



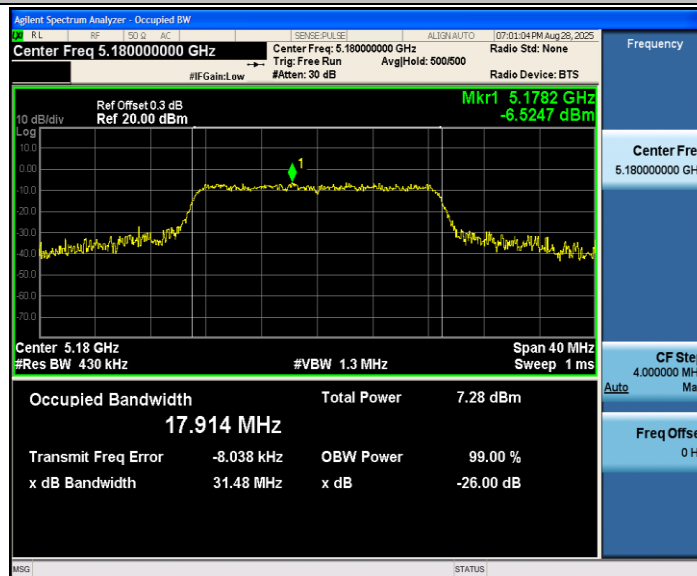
11A_Ant1_5785



11A_Ant1_5825



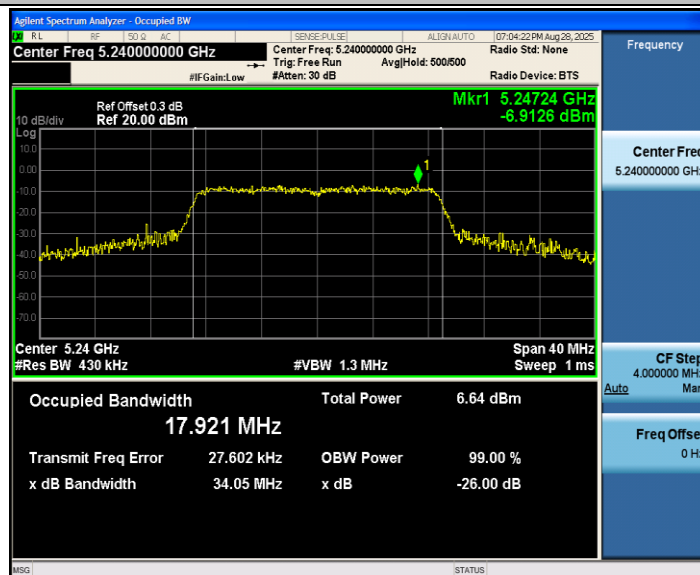
11N20SISO_Ant1_5180



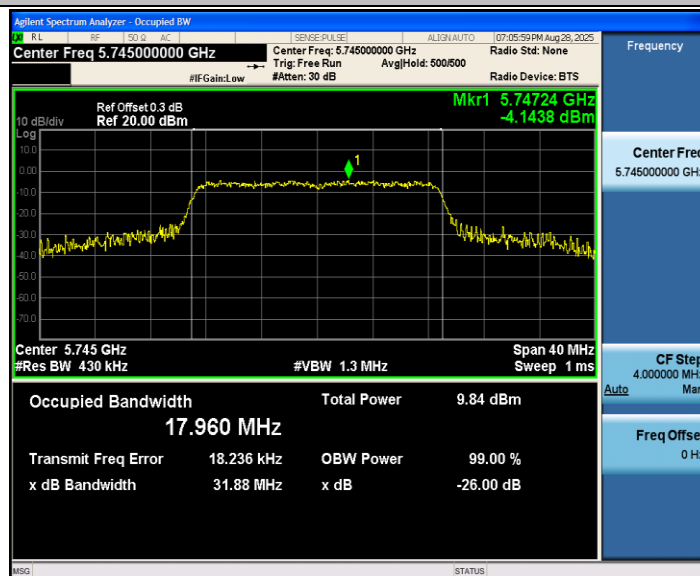
11N20SISO_Ant1_5220



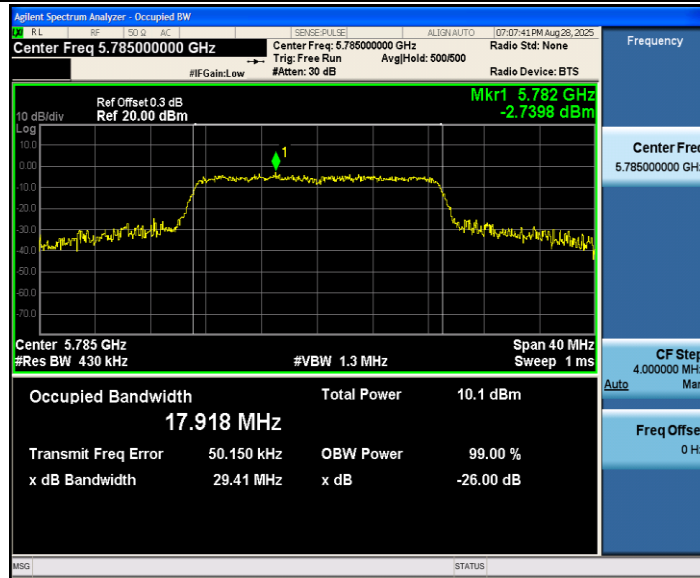
11N20SISO_Ant1_5240



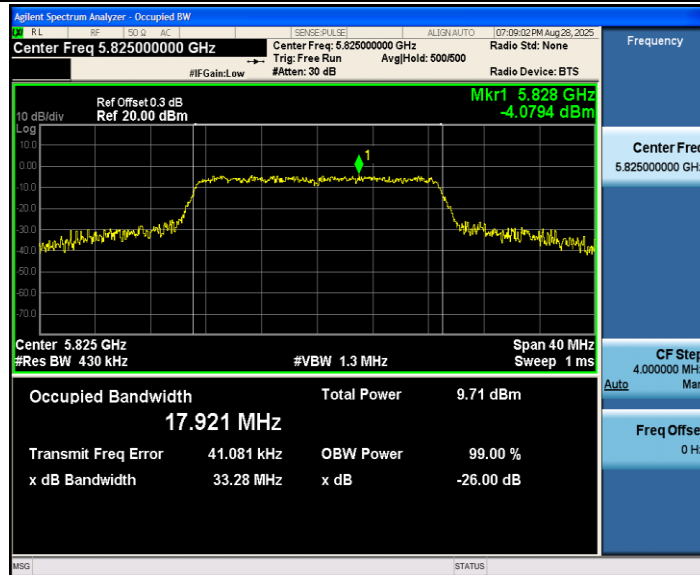
11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



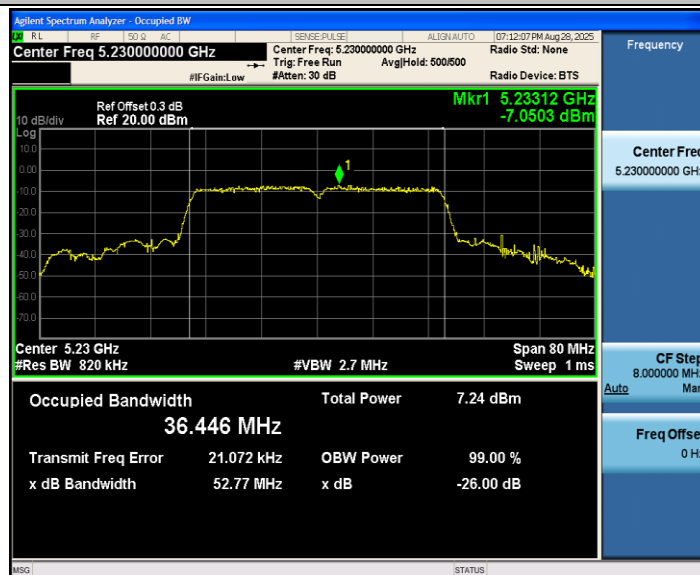
11N20SISO_Ant1_5825



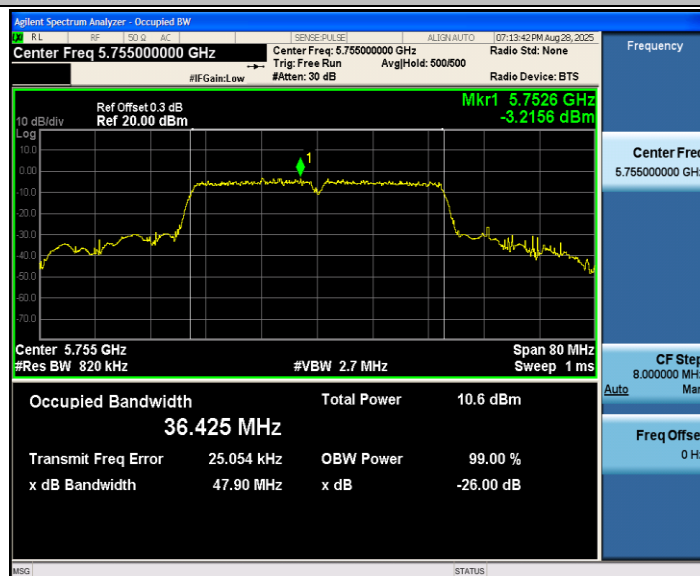
11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795

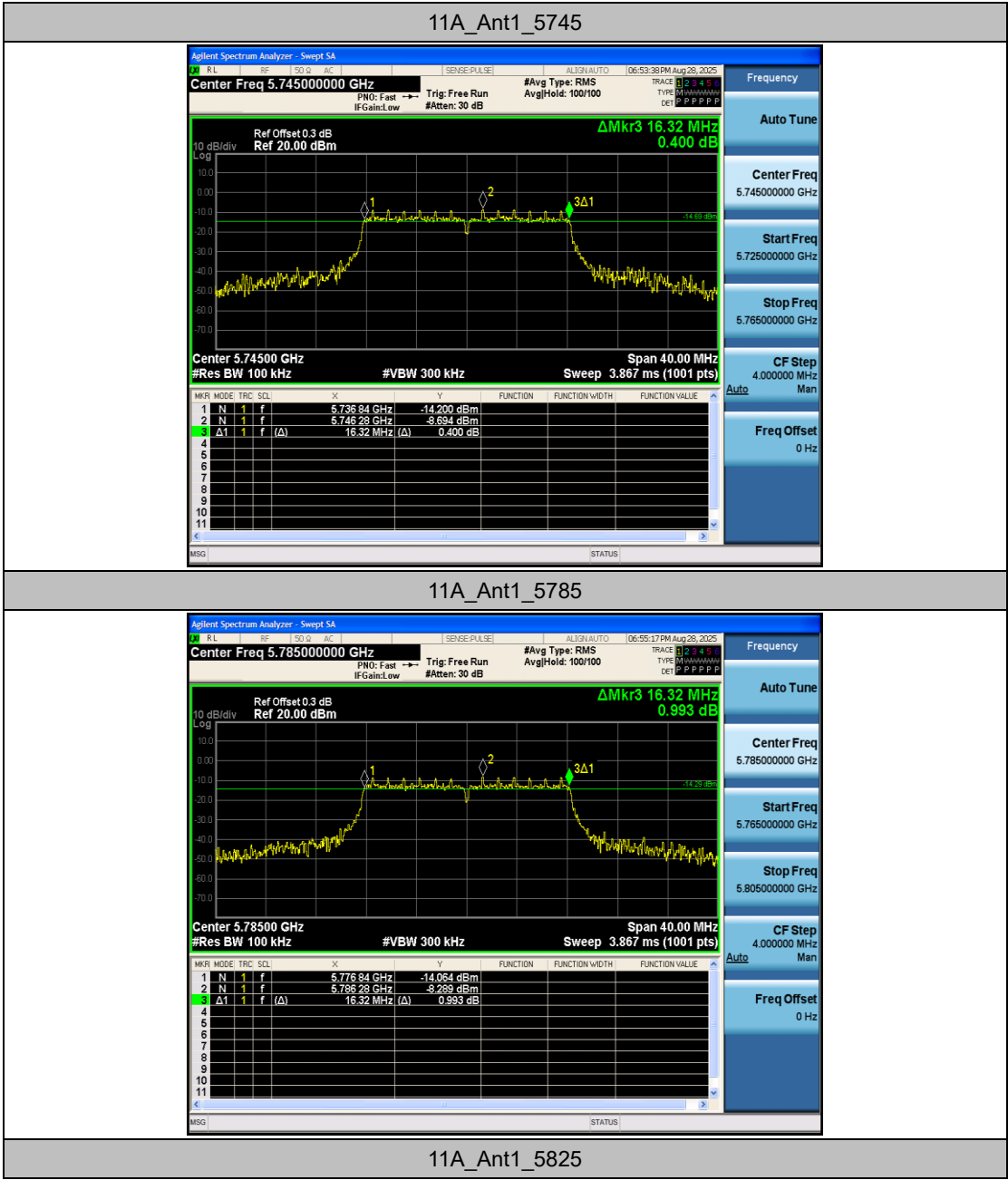


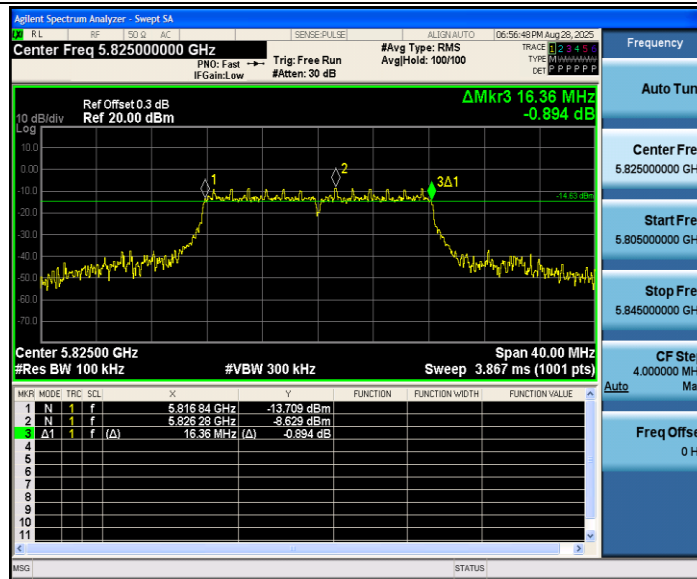
Appendix A3: Min emission bandwidth

Test Result B4

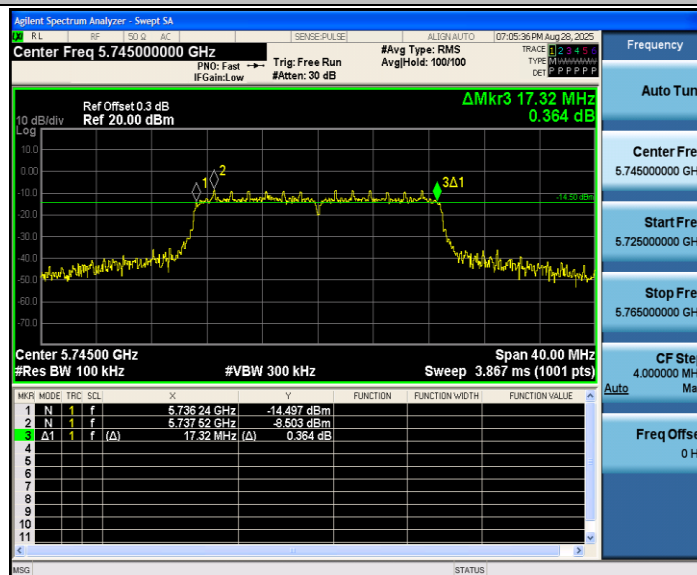
TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.320	5736.840	5753.160	0.5	PASS
		5785	16.320	5776.840	5793.160	0.5	PASS
		5825	16.360	5816.840	5833.200	0.5	PASS
11N20SISO	Ant1	5745	17.320	5736.240	5753.560	0.5	PASS
		5785	17.400	5776.240	5793.640	0.5	PASS
		5825	17.320	5816.360	5833.680	0.5	PASS
11N40SISO	Ant1	5755	35.520	5737.080	5772.600	0.5	PASS
		5795	35.680	5777.320	5813.000	0.5	PASS

Test Graphs B4

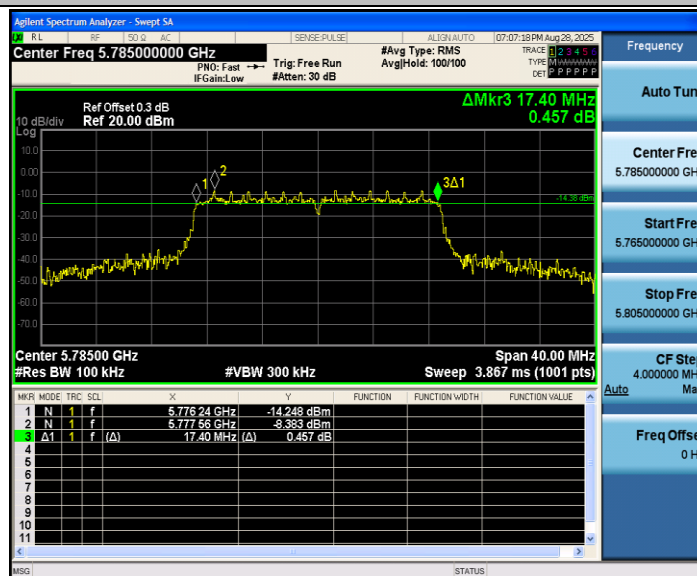




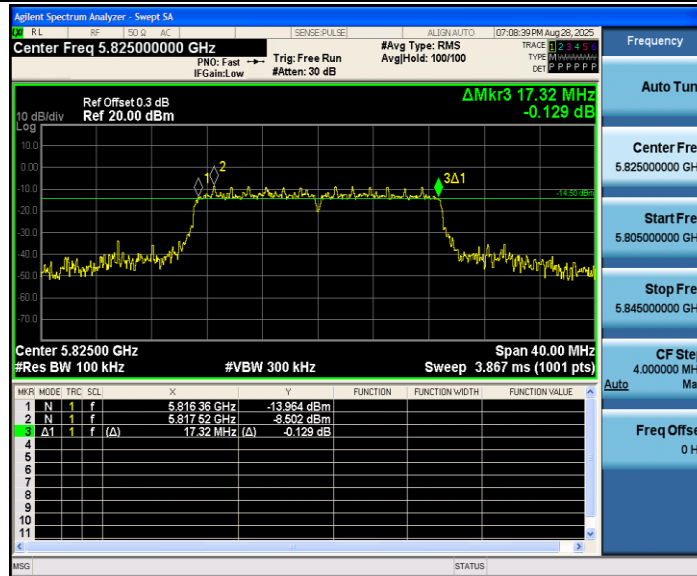
11N20SISO_Ant1_5745



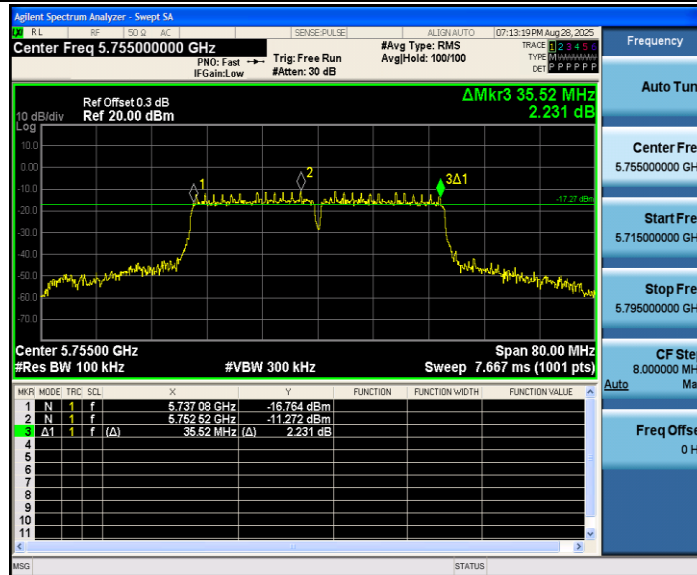
11N20SISO_Ant1_5785



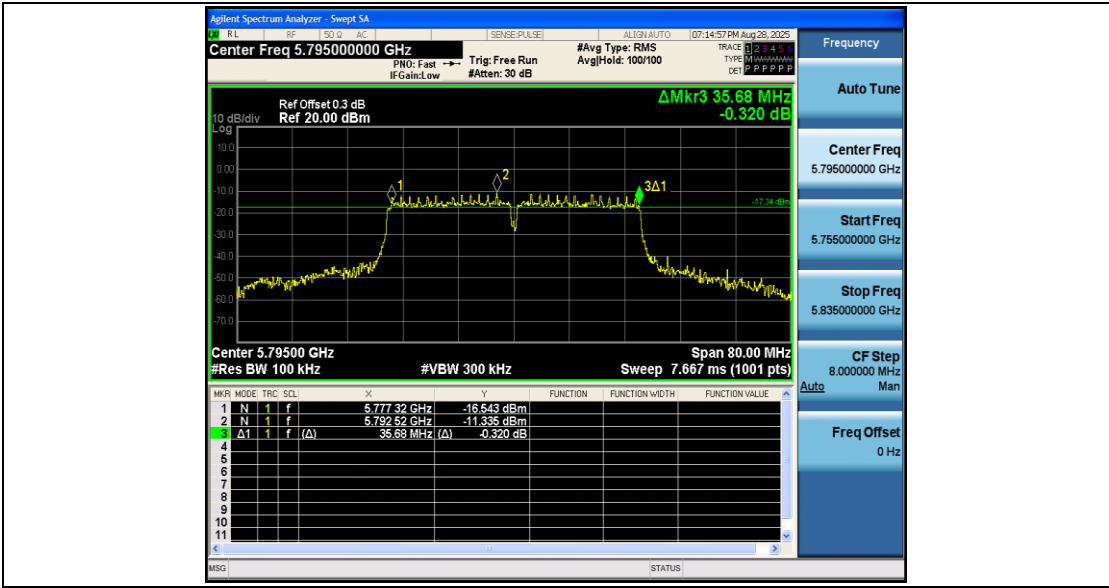
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795

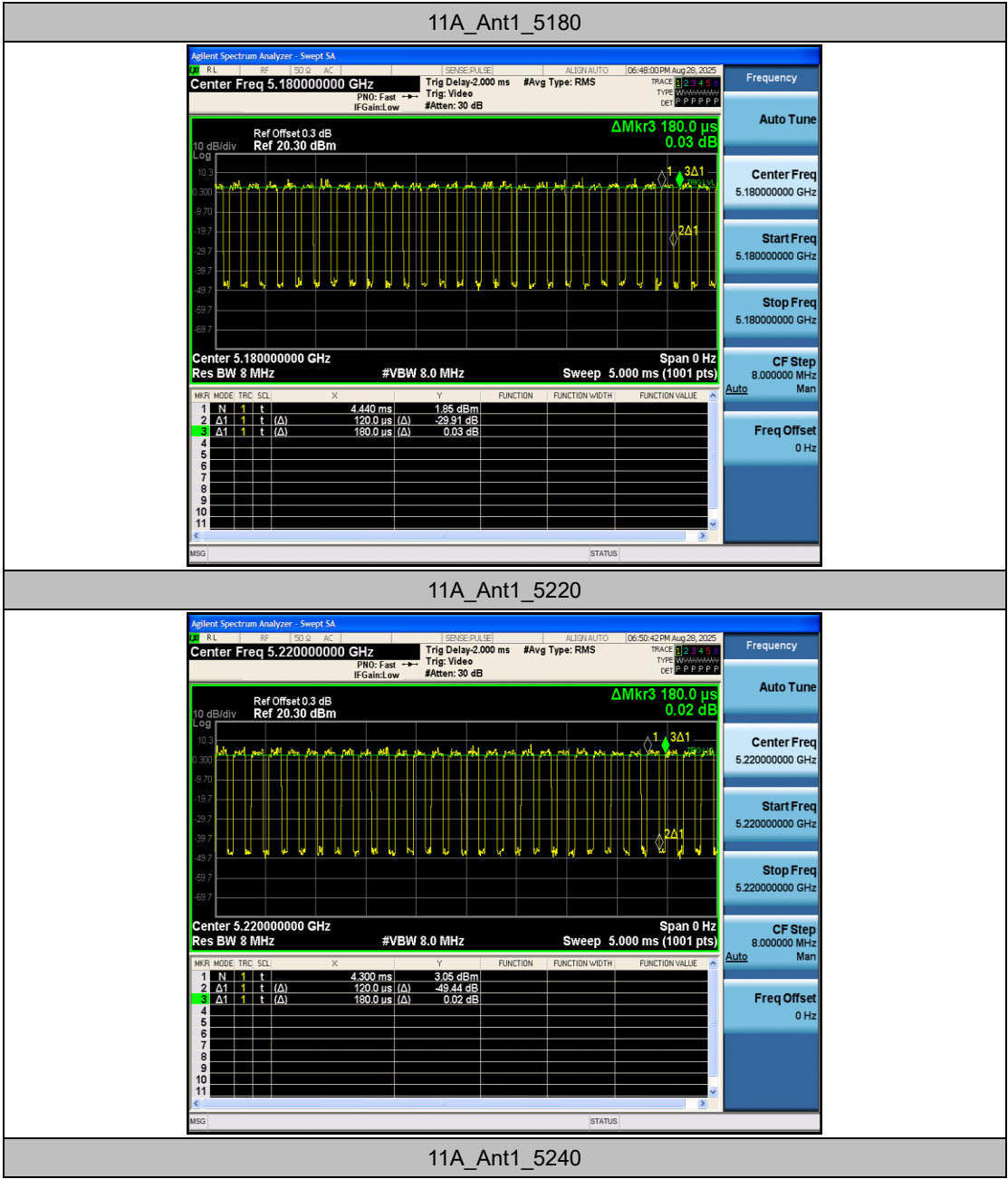


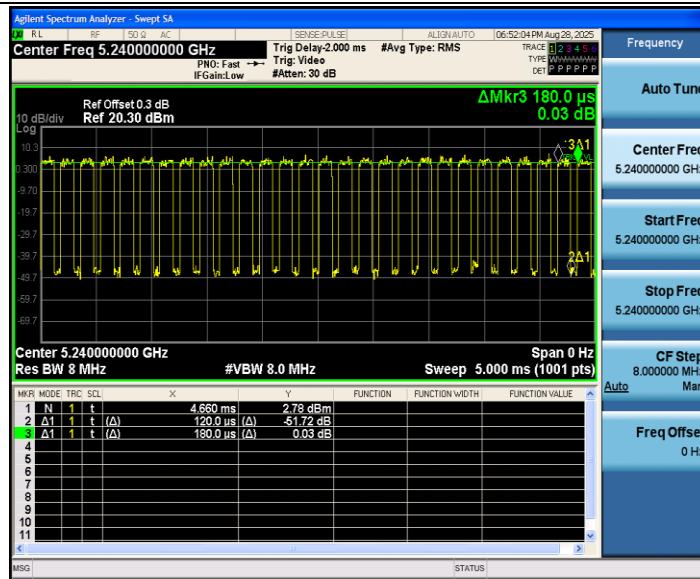
Appendix B: Duty Cycle

Test Result

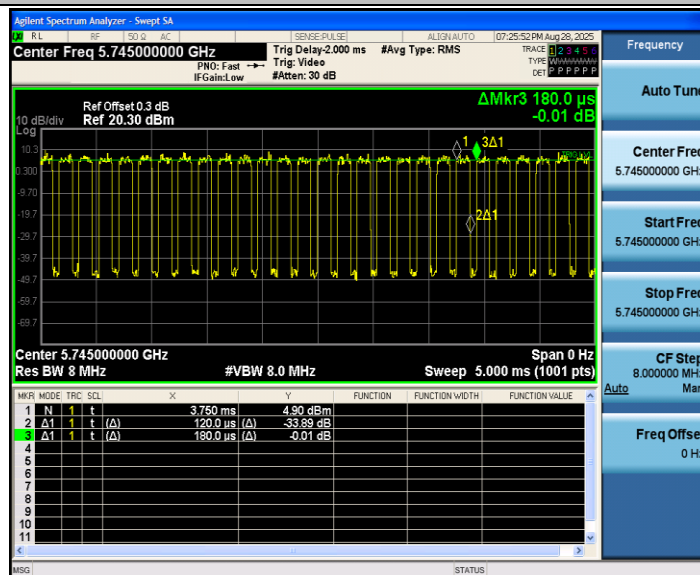
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty factor(dB)	Limit	Verdict
11A	Ant1	5180	0.12	0.18	61.11	1.76	---	---
		5220	0.12	0.18	57.89	1.76	---	---
		5240	0.12	0.18	66.67	1.76	---	---
		5745	0.12	0.18	61.11	1.76	---	---
		5785	0.12	0.18	66.67	1.76	---	---
		5825	0.12	0.18	66.67	1.76	---	---
11N20SISO	Ant1	5180	0.12	0.18	61.11	1.76	---	---
		5220	0.12	0.18	66.67	1.76	---	---
		5240	0.12	0.18	61.11	1.76	---	---
		5745	0.12	0.18	61.11	1.76	---	---
		5785	0.12	0.18	61.11	1.76	---	---
		5825	0.12	0.18	61.11	1.76	---	---
11N40SISO	Ant1	5190	0.07	0.14	50.00	3.01	---	---
		5230	0.07	0.14	57.14	3.01	---	---
		5755	0.07	0.14	57.14	3.01	---	---
		5795	0.07	0.14	50.00	3.01	---	---

Test Graphs

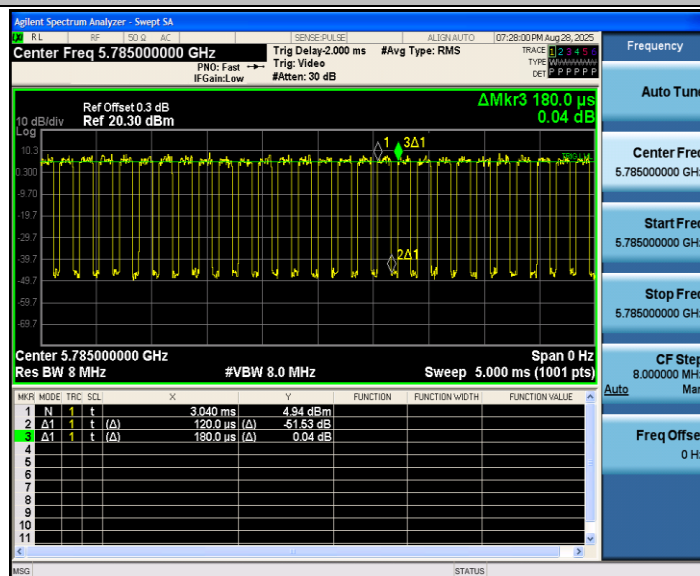




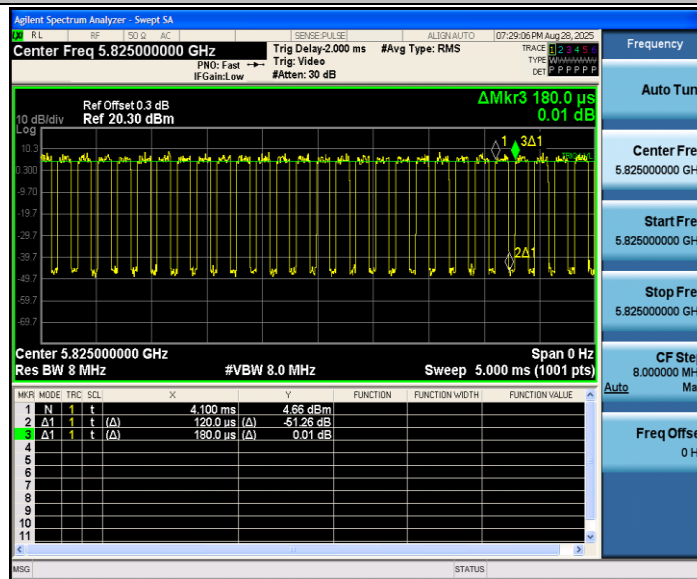
11A_Ant1_5745



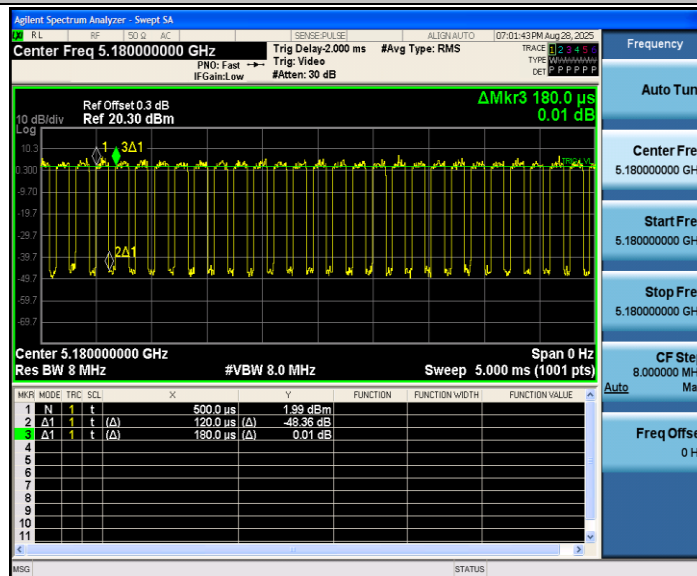
11A_Ant1_5785



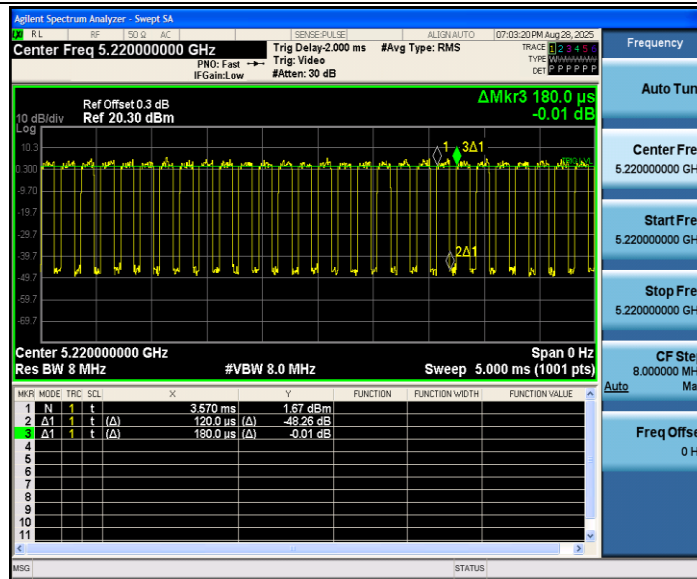
11A_Ant1_5825



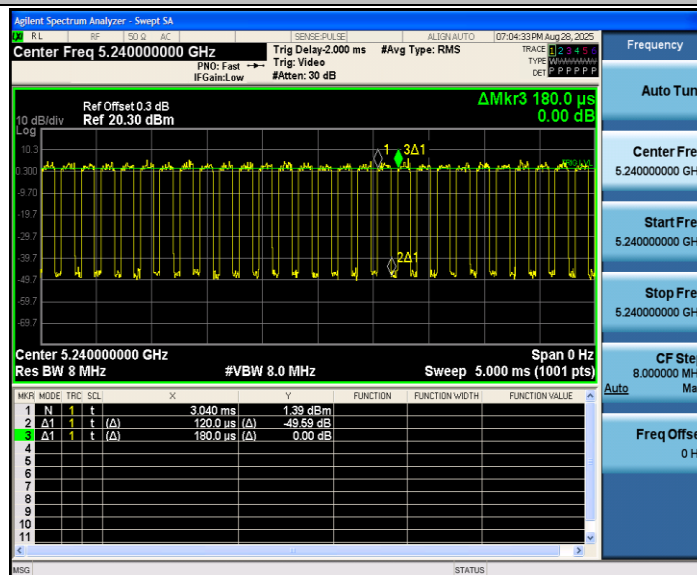
11N20SISO_Ant1_5180



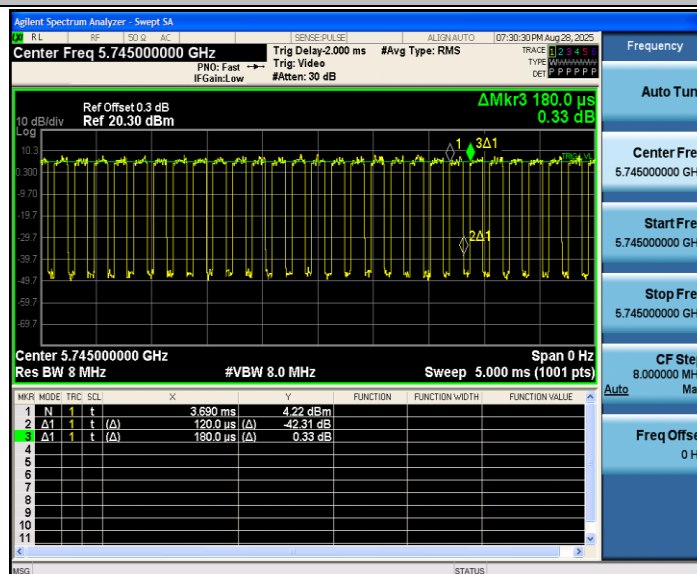
11N20SISO_Ant1_5220



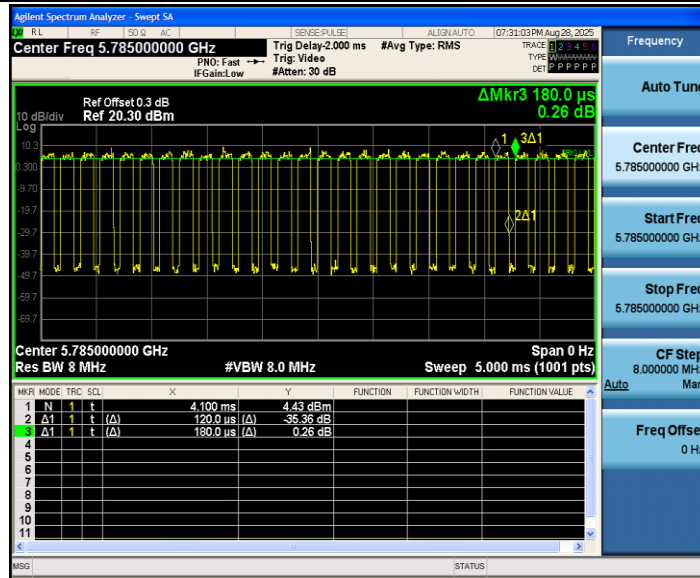
11N20SISO_Ant1_5240



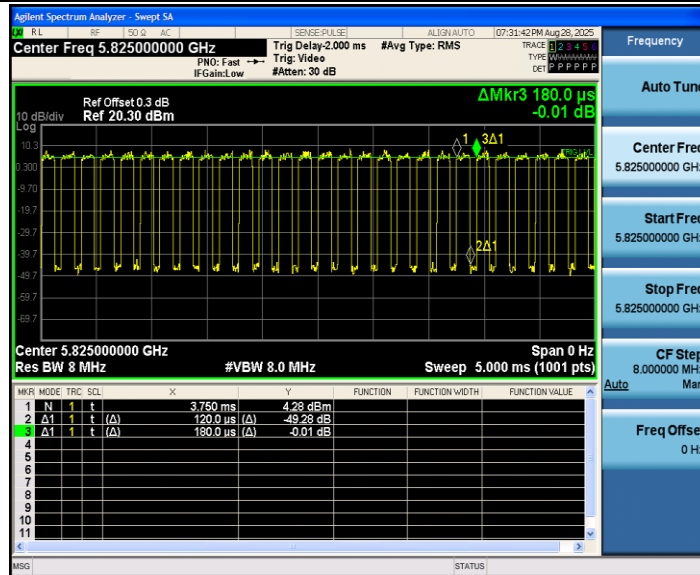
11N20SISO_Ant1_5745



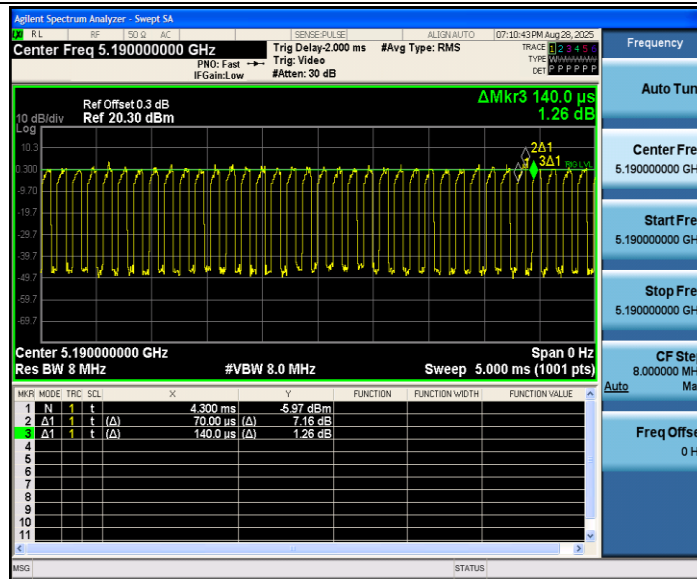
11N20SISO_Ant1_5785



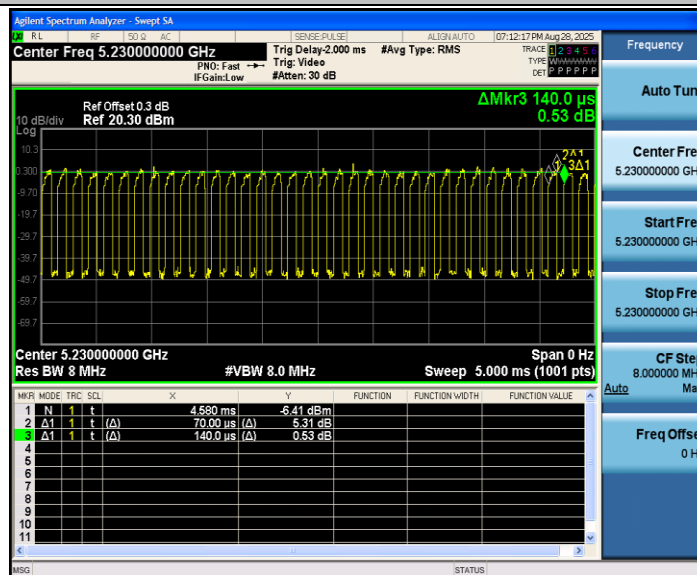
11N20SISO_Ant1_5825



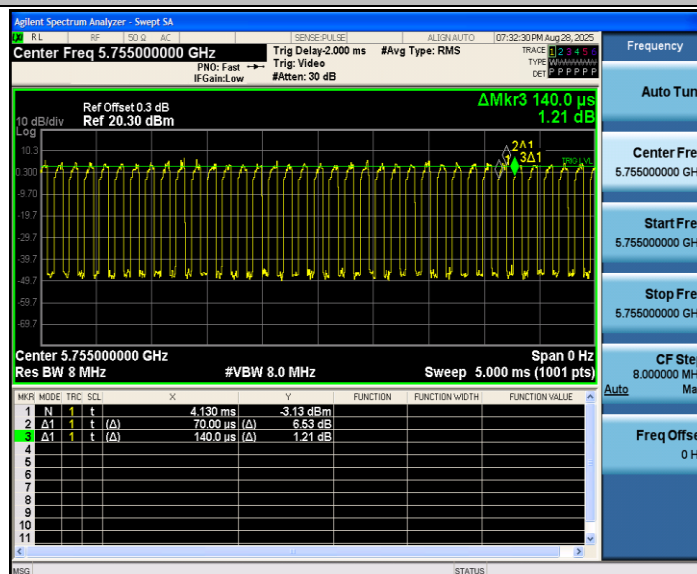
11N40SISO_Ant1_5190



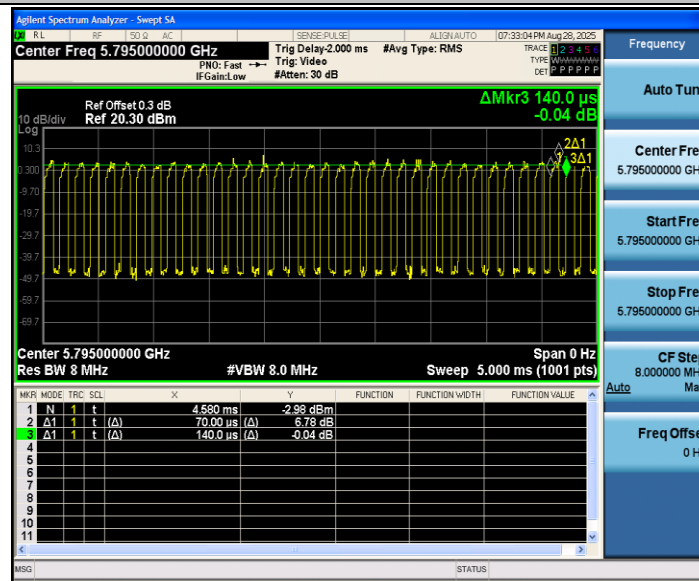
11N40SISO_Ant1_5230



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



Appendix C: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Freq(MHz)	Channel Power [dBm]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	-0.10	1.76	1.66	≤23.98	PASS
		5220	-0.62	1.76	1.14	≤23.98	PASS
		5240	-0.95	1.76	0.81	≤23.98	PASS
		5745	-1.77	1.76	-0.01	≤30.00	PASS
		5785	-1.87	1.76	-0.11	≤30.00	PASS
		5825	-2.19	1.76	-0.43	≤30.00	PASS
11N20SISO	Ant1	5180	-1.60	1.76	0.16	≤23.98	PASS
		5220	-1.86	1.76	-0.10	≤23.98	PASS
		5240	-2.18	1.76	-0.42	≤23.98	PASS
		5745	-1.55	1.76	0.21	≤30.00	PASS
		5785	-1.69	1.76	0.07	≤30.00	PASS
		5825	-1.79	1.76	-0.03	≤30.00	PASS
11N40SISO	Ant1	5190	-2.58	3.01	0.43	≤23.98	PASS
		5230	-2.89	3.01	0.12	≤23.98	PASS
		5755	-2.66	3.01	0.35	≤30.00	PASS
		5795	-2.44	3.01	0.57	≤30.00	PASS

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/1MHz] For 5.2G	RBW Factor (dB)	Duty factor (dB)	Result [dBm/MHz] For 5.2G	Limit[dBm/MHz] For 5.2G	Verdict
			Result [dBm/300KHz] For 5.8G			Result [dBm/500kHz] For 5.8G	Limit[dBm/MHz] For 5.8G	
11A	Ant1	5180	-11.189	/	1.76	-9.43	≤11.00	PASS
		5220	-11.563	/	1.76	-9.80	≤11.00	PASS
		5240	-11.890	/	1.76	-10.13	≤11.00	PASS
		5745	-14.302	2.22	1.76	-9.94	≤30.00	PASS
		5785	-14.016	2.22	1.76	-9.66	≤30.00	PASS
		5825	-14.418	2.22	1.76	-10.44	≤30.00	PASS
11N20SISO	Ant1	5180	-12.447	/	1.76	-10.69	≤11.00	PASS
		5220	-12.844	/	1.76	-11.08	≤11.00	PASS
		5240	-12.791	/	1.76	-11.03	≤11.00	PASS
		5745	-14.117	2.22	1.76	-9.76	≤30.00	PASS
		5785	-13.421	2.22	1.76	-9.44	≤30.00	PASS
		5825	-14.449	2.22	1.76	-10.09	≤30.00	PASS
11N40SISO	Ant1	5190	-15.881	/	3.01	-12.87	≤11.00	PASS
		5230	-15.776	/	3.01	-12.77	≤11.00	PASS
		5755	-16.916	2.22	3.01	-11.69	≤30.00	PASS
		5795	-17.309	2.22	3.01	-12.08	≤30.00	PASS

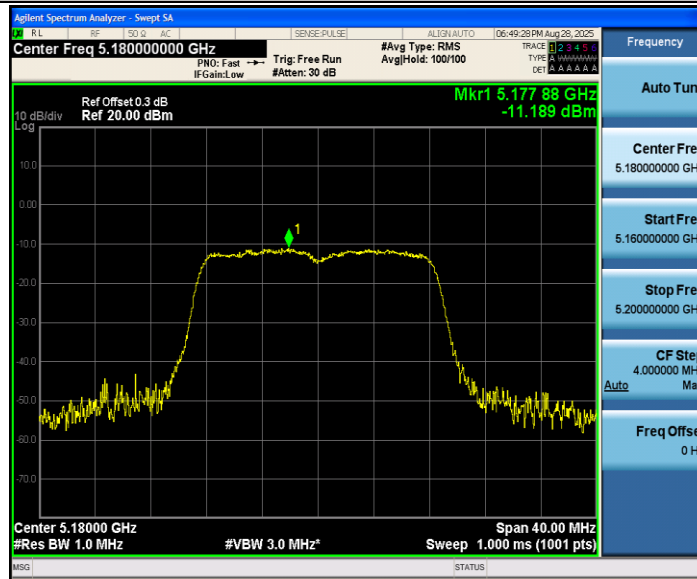
Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

$P.S.D(dBm/500KHz) = P.S.D(dBm/300KHz) + 10 \log (500 \text{ kHz}/300KHz)$.

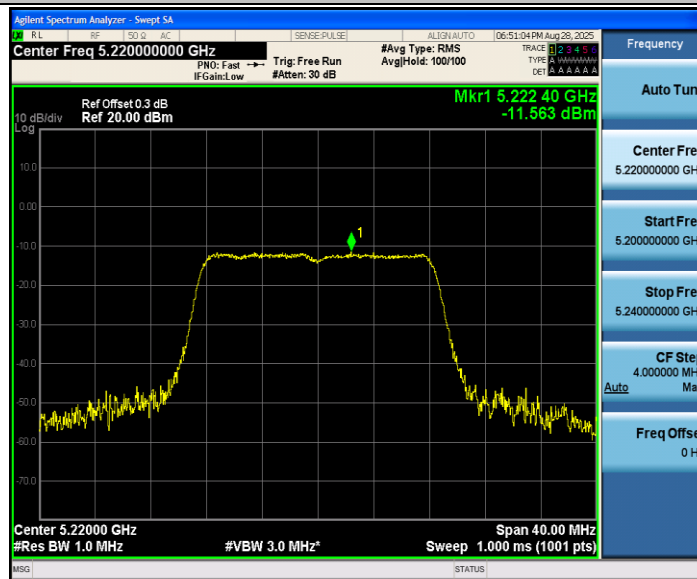
2. RBW factor= $10 \log (500 \text{ KHz} /300 \text{ KHz}) = 2.22 \text{ dB}$

Test Graphs

11A_Ant1_5180



11A_Ant1_5220



11A_Ant1_5240