

FCC Appendix RF Test Data for 5GWIFI

FCC ID : 2AXCX-NT604ELITE

Company : Shenzhen Foxwell Technology Co., Ltd

EUT : FOUR-SYSTEM SCANNER

Model Number : NT604Elite

Report No. : CTA25091901302

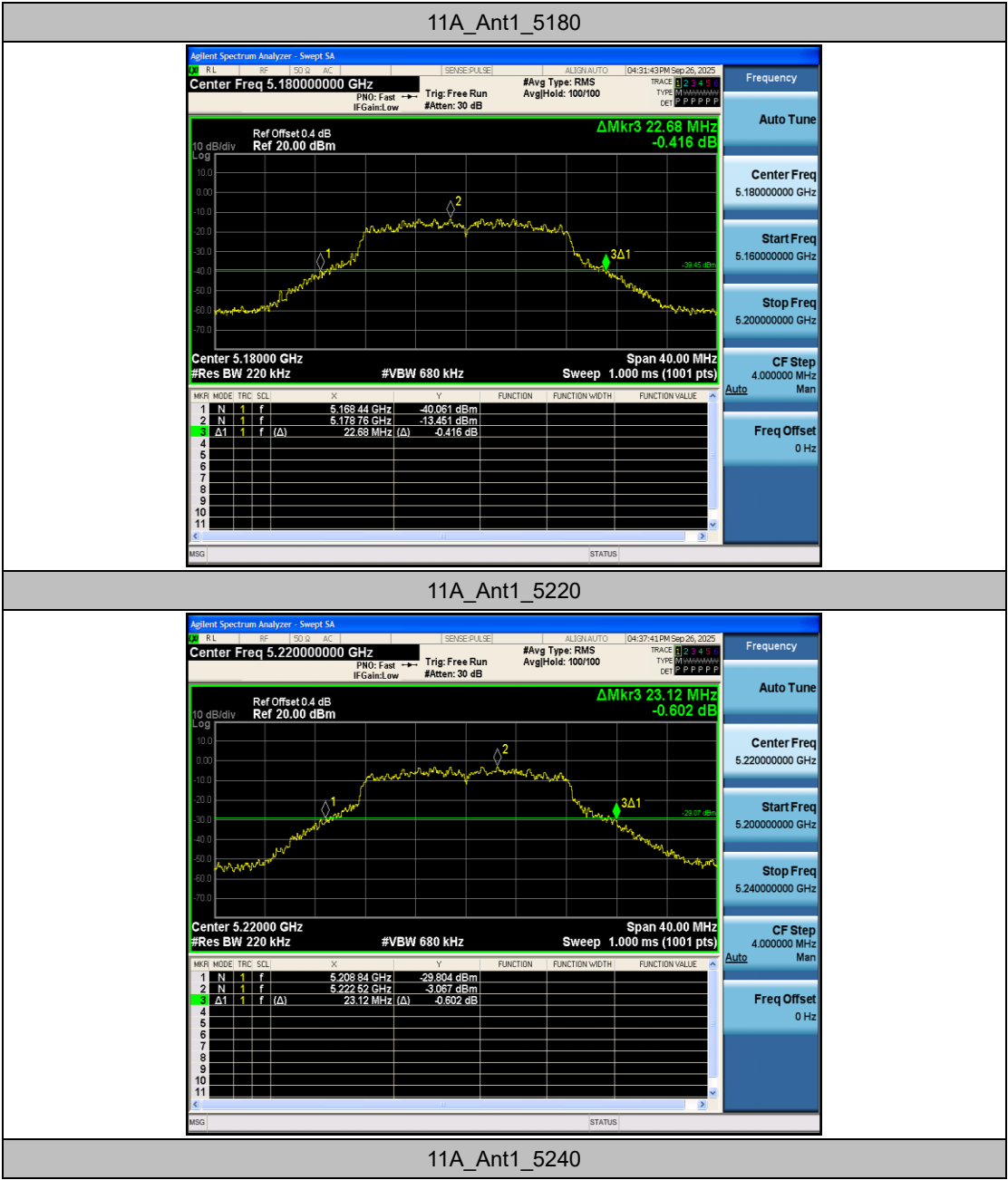
Reviewed By : Eric Wang

Appendix A1: Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	22.680	5168.440	5191.120	---	---
		5220	23.120	5208.840	5231.960	---	---
		5240	22.360	5228.360	5250.720	---	---
		5745	23.400	5733.640	5757.040	---	---
		5785	23.240	5773.600	5796.840	---	---
		5825	22.440	5813.880	5836.320	---	---
11N20SISO	Ant1	5180	22.400	5169.200	5191.600	---	---
		5220	23.640	5208.280	5231.920	---	---
		5240	22.600	5228.840	5251.440	---	---
		5745	23.880	5733.120	5757.000	---	---
		5785	24.440	5772.520	5796.960	---	---
		5825	23.600	5813.040	5836.640	---	---
11N40SISO	Ant1	5190	43.680	5169.040	5212.720	---	---
		5230	44.160	5208.320	5252.480	---	---
		5755	44.720	5733.000	5777.720	---	---
		5795	43.760	5773.960	5817.720	---	---

Test Graphs





11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5180



11N20SISO_Ant1_5220



11N20SISO_Ant1_5240



11N20SISO_Ant1_5745



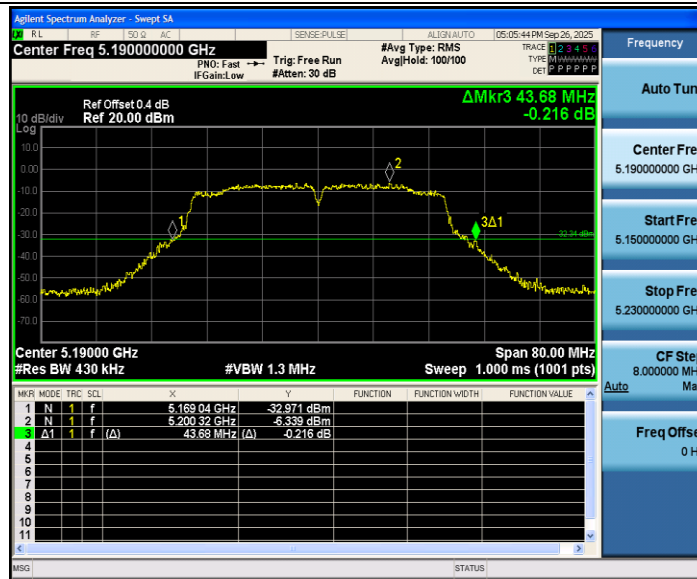
11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



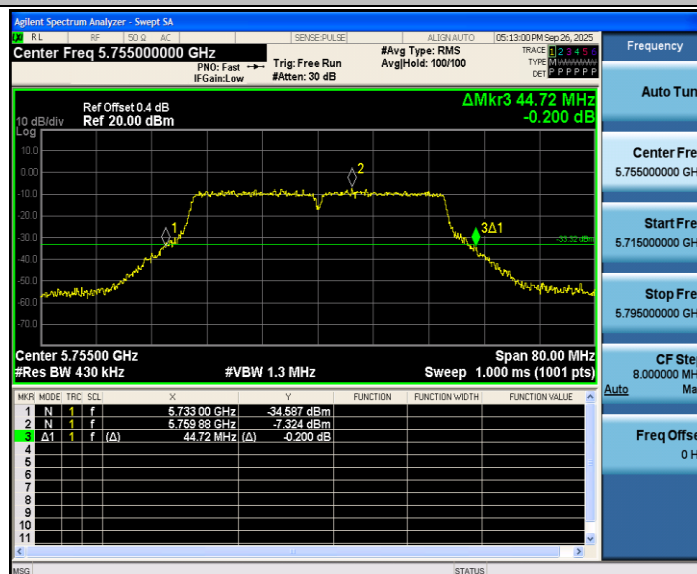
11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795

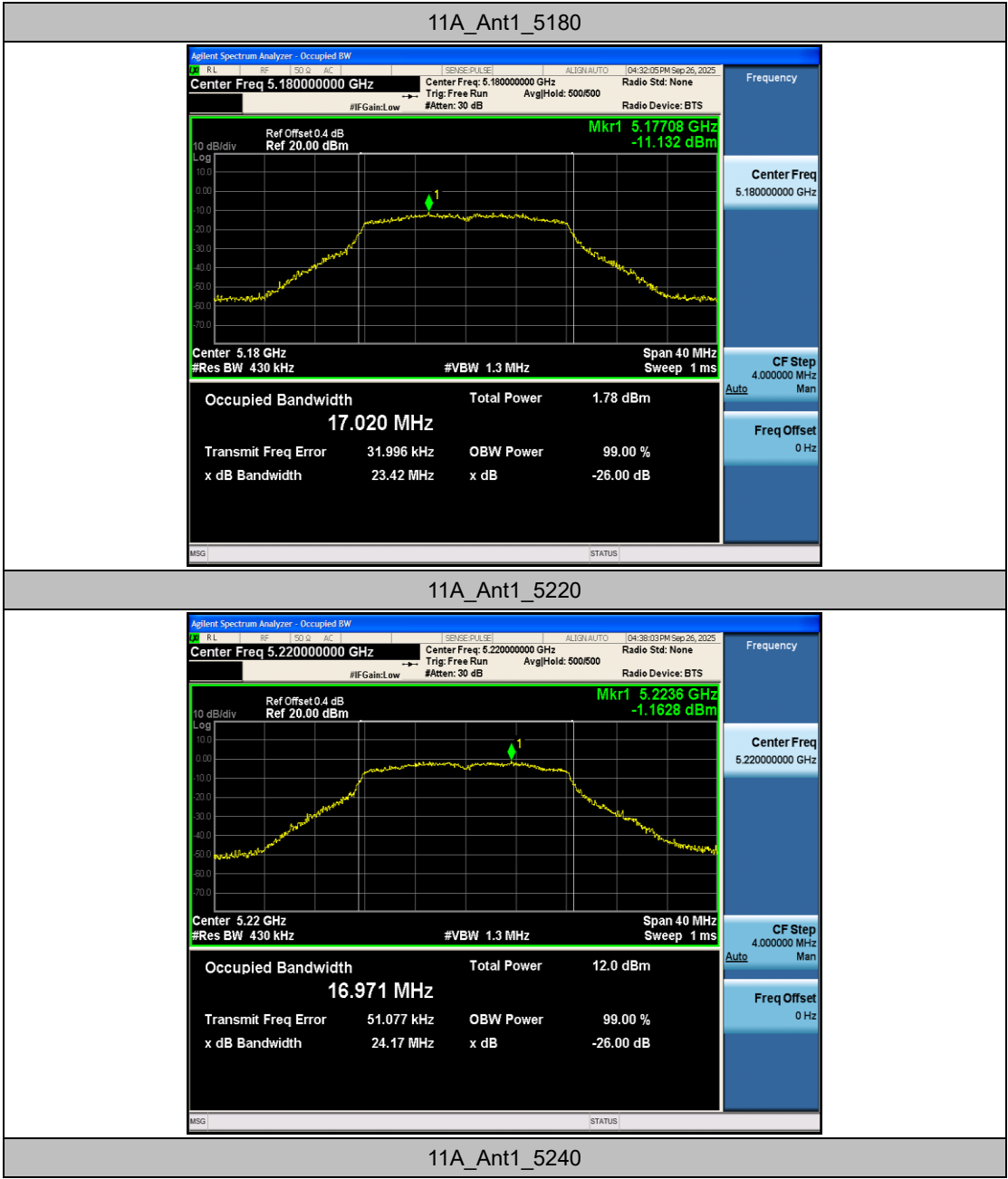


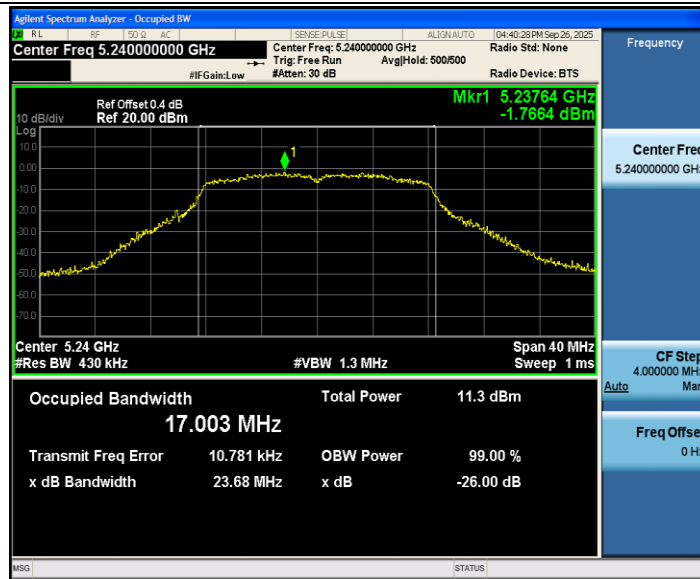
Appendix A2: Occupied channel bandwidth

Test Result

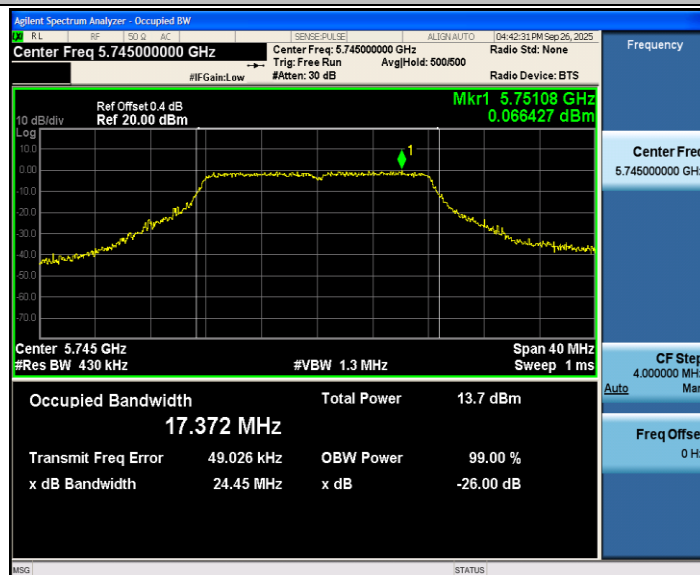
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.020	5171.5220	5188.5420	---	---
		5220	16.971	5211.5656	5228.5366	---	---
		5240	17.003	5231.5093	5248.5123	---	---
		5745	17.372	5736.3630	5753.7350	---	---
		5785	17.368	5776.3671	5793.7351	---	---
		5825	17.298	5816.3483	5833.6463	---	---
11N20SISO	Ant1	5180	18.033	5171.0179	5189.0509	---	---
		5220	18.096	5210.9750	5229.0710	---	---
		5240	18.019	5230.9905	5249.0095	---	---
		5745	18.320	5735.8459	5754.1659	---	---
		5785	18.375	5775.8236	5794.1986	---	---
		5825	18.354	5815.8029	5834.1569	---	---
11N40SISO	Ant1	5190	36.158	5172.0046	5208.1626	---	---
		5230	36.194	5211.9451	5248.1391	---	---
		5755	36.702	5736.7137	5773.4157	---	---
		5795	36.798	5776.7094	5813.5074	---	---

Test Graphs

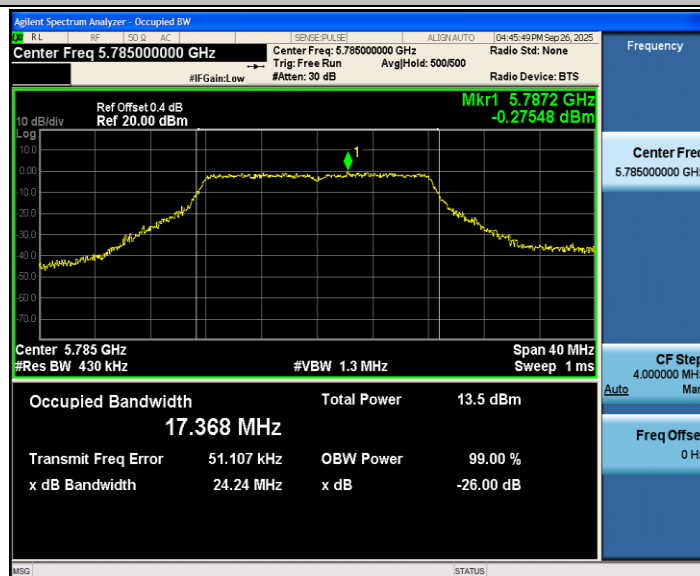




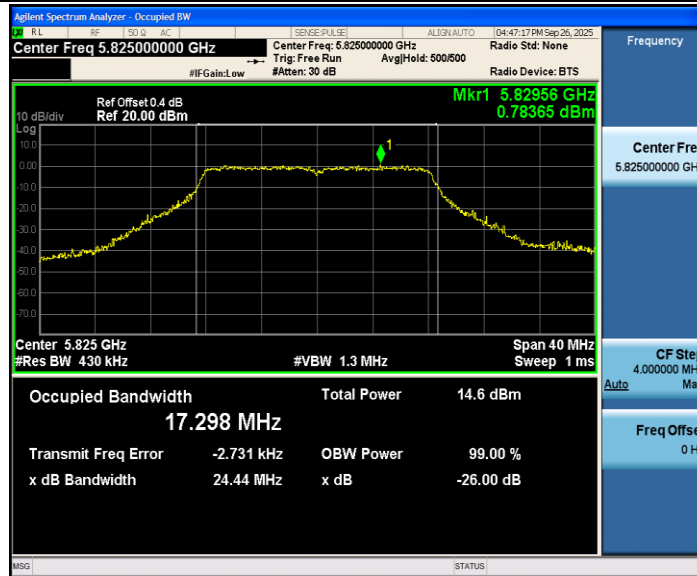
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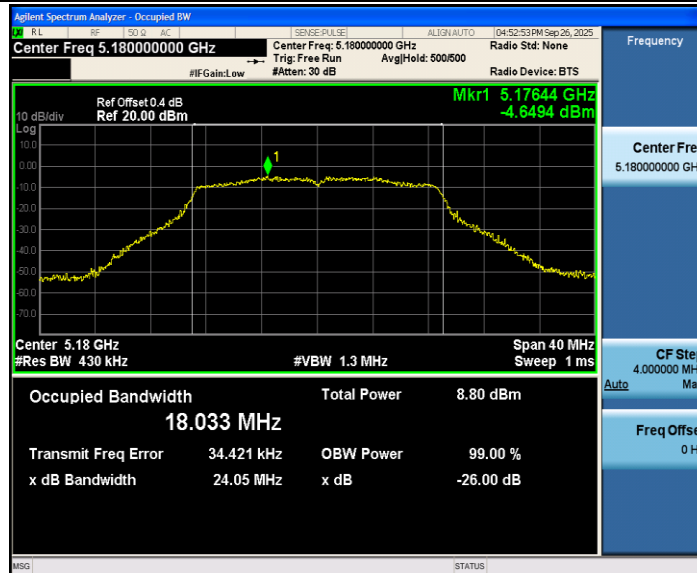
11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5180



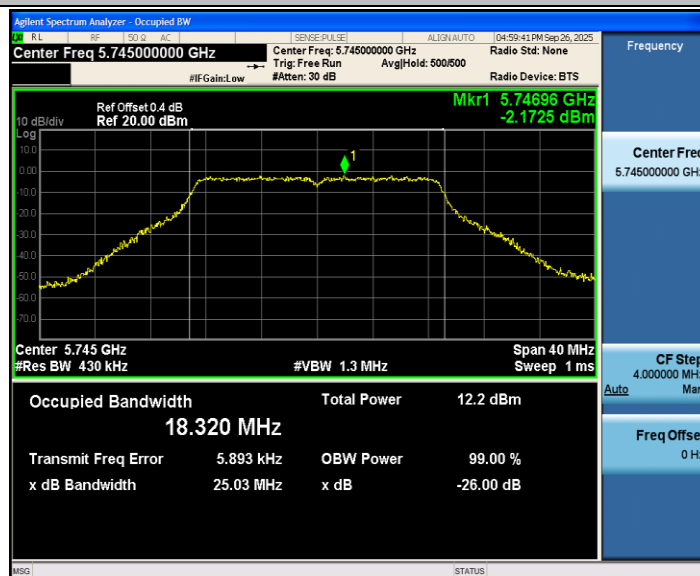
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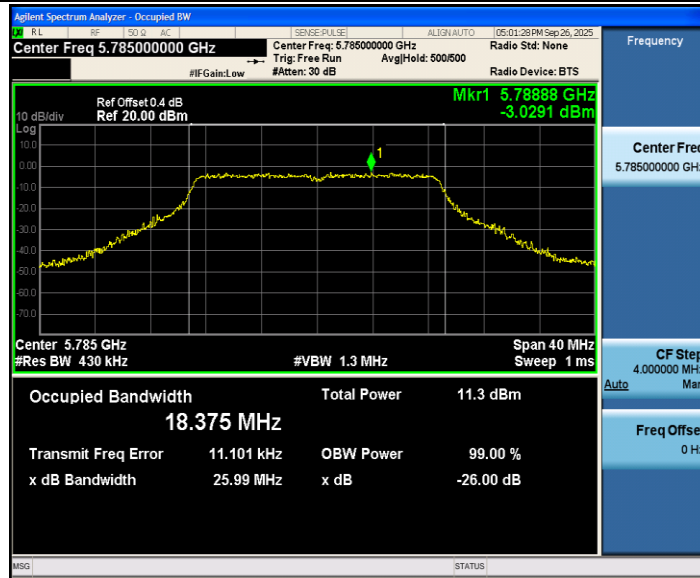
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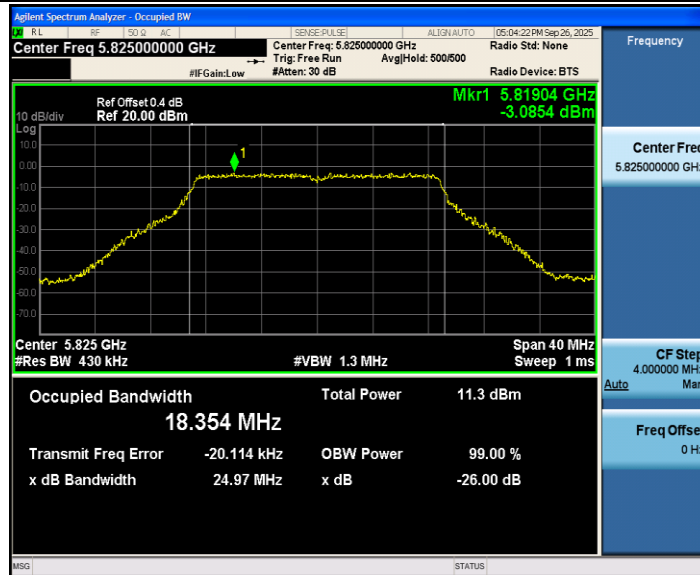
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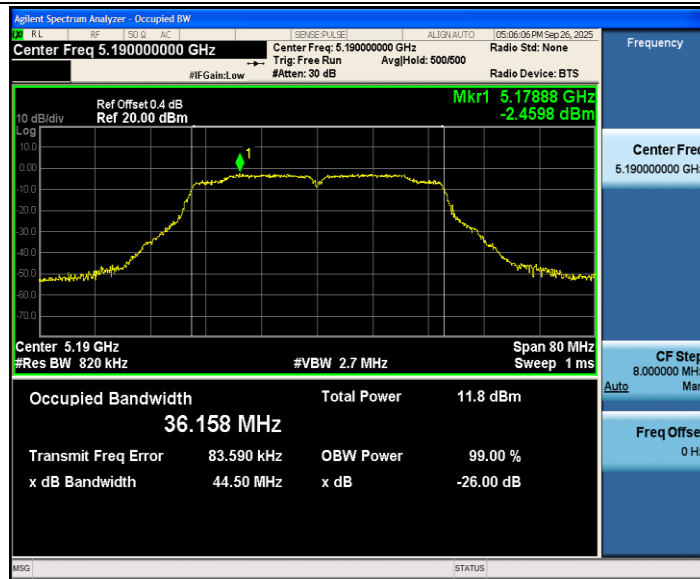
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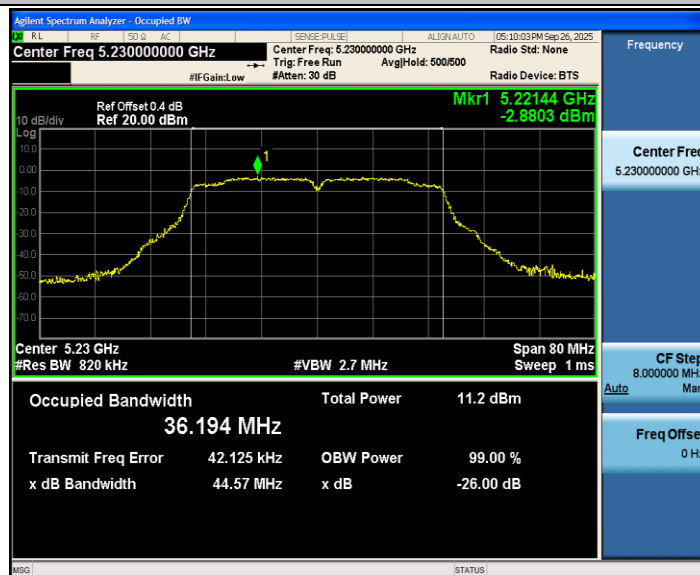
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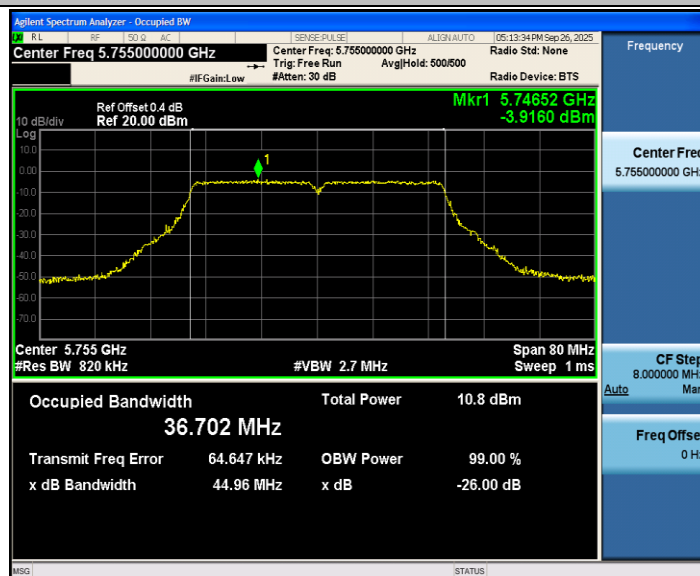
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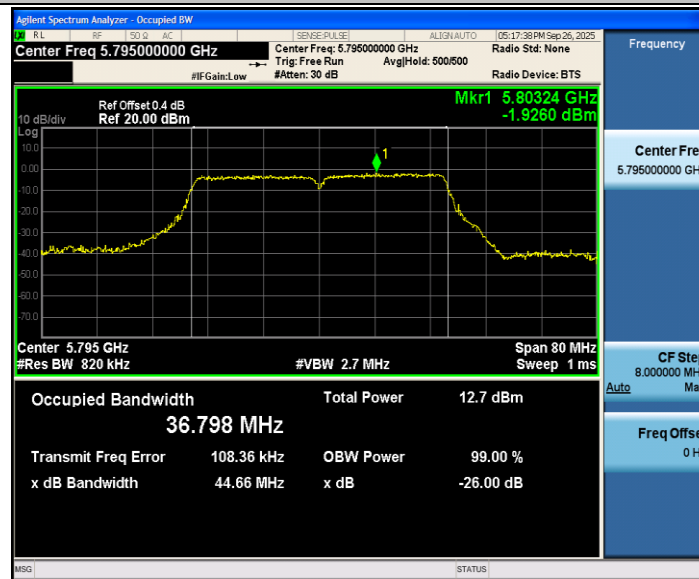
11N40SISO_Ant1_5230



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795

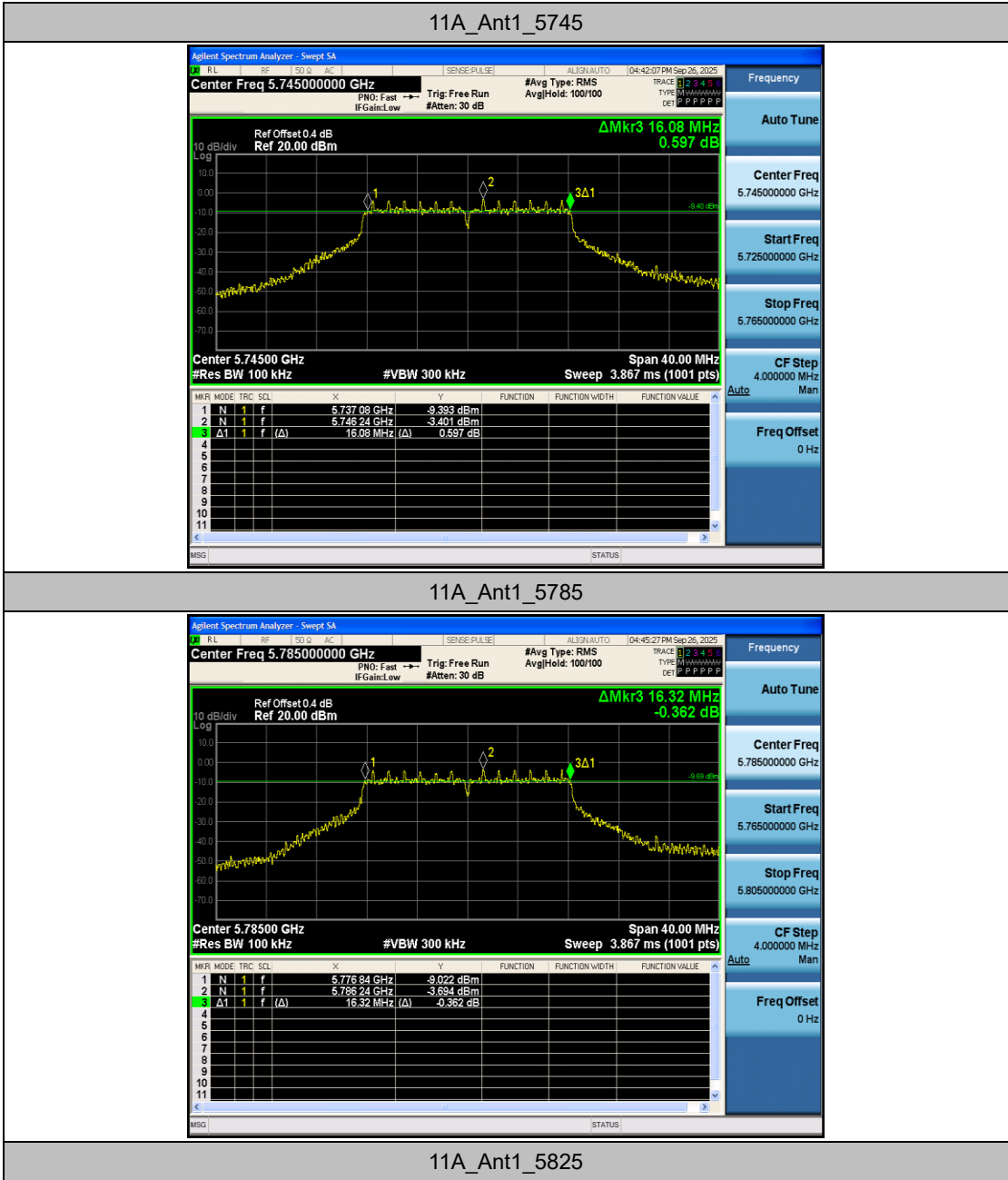


Appendix A3: Min emission bandwidth

Test Result B4

TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.080	5737.080	5753.160	0.5	PASS
		5785	16.320	5776.840	5793.160	0.5	PASS
		5825	16.200	5816.840	5833.040	0.5	PASS
11N20SISO	Ant1	5745	17.560	5736.200	5753.760	0.5	PASS
		5785	17.560	5776.200	5793.760	0.5	PASS
		5825	17.520	5816.240	5833.760	0.5	PASS
11N40SISO	Ant1	5755	36.320	5736.840	5773.160	0.5	PASS
		5795	35.760	5777.400	5813.160	0.5	PASS

Test Graphs B4

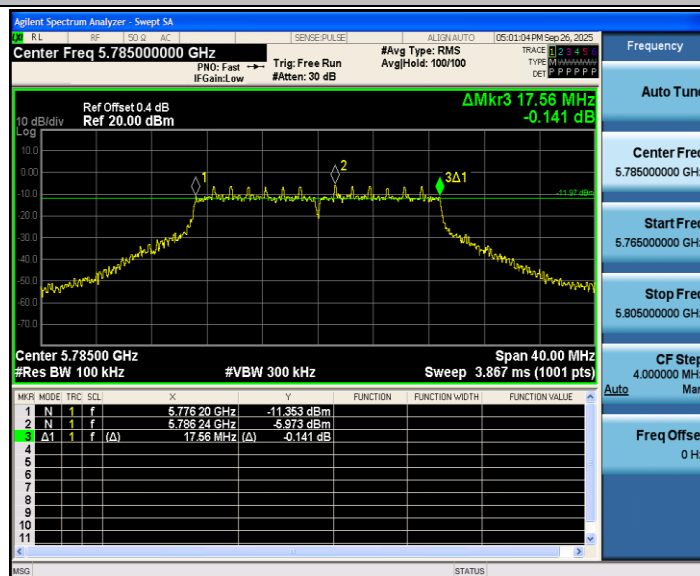




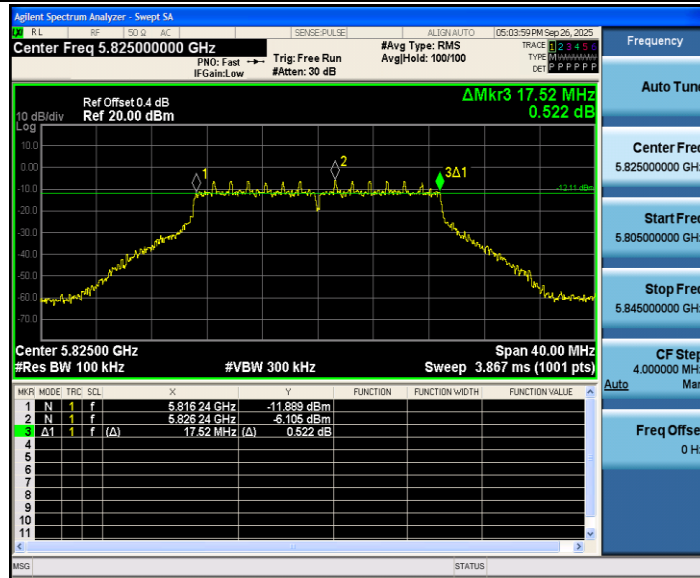
11N20SISO_Ant1_5745



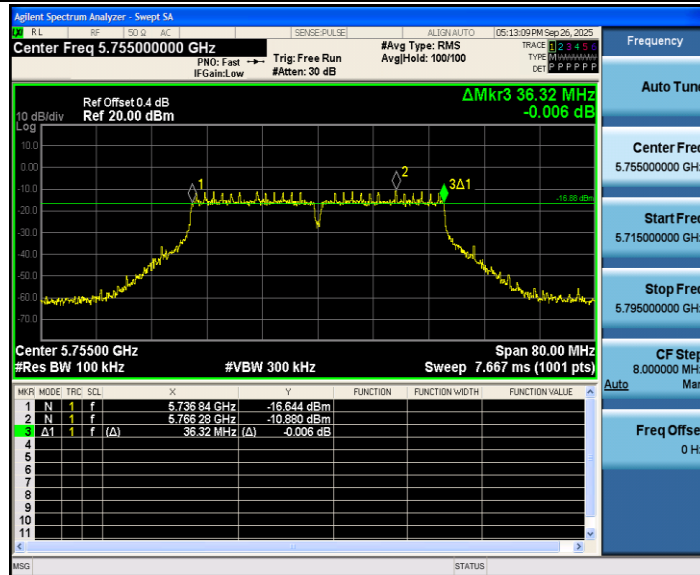
11N20SISO_Ant1_5785



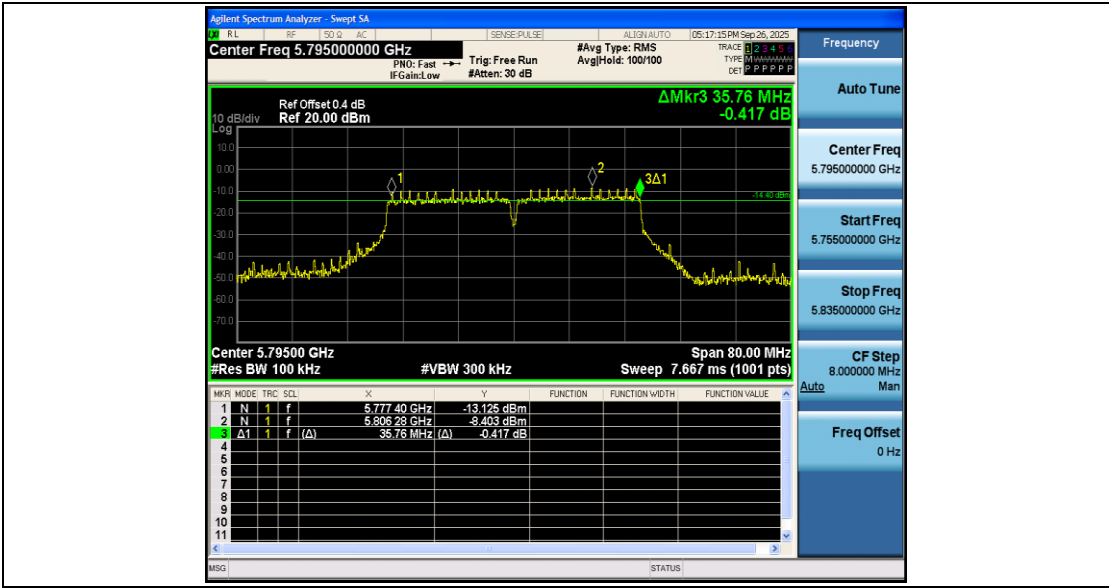
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795

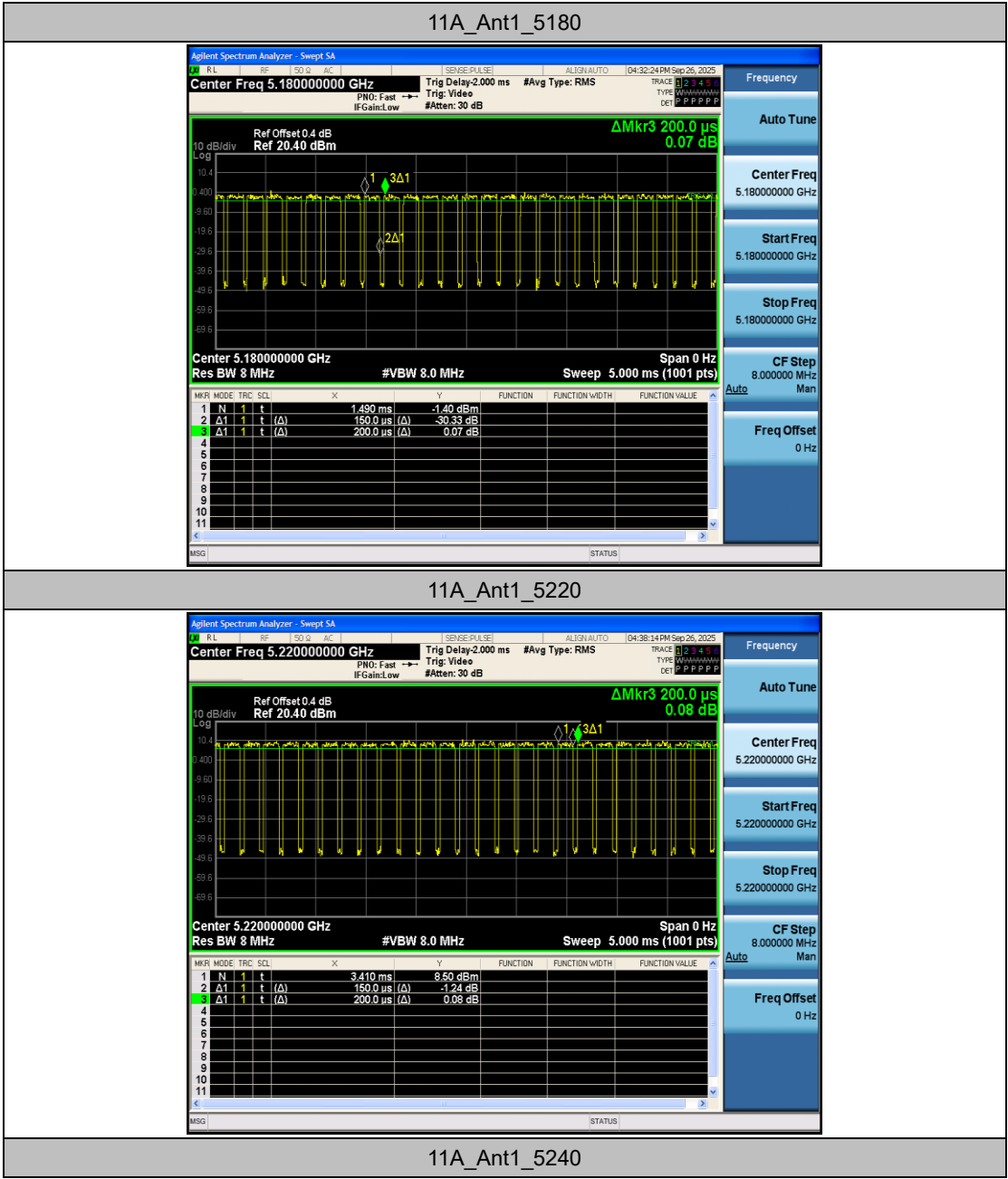


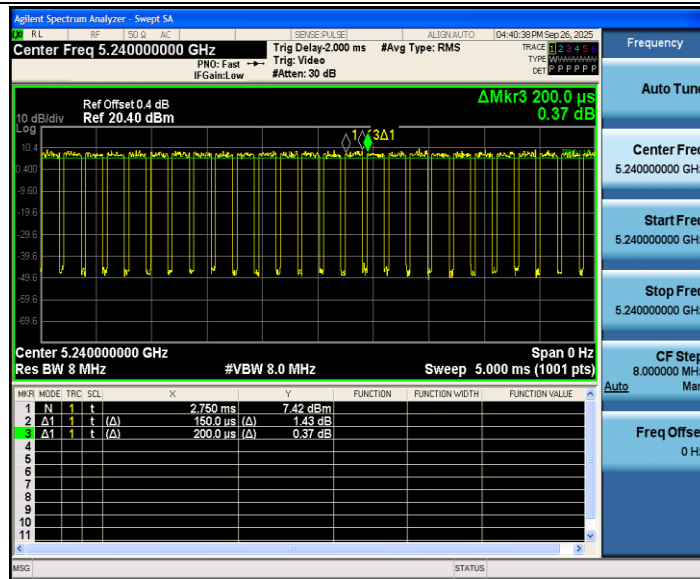
Appendix B: Duty Cycle

Test Result

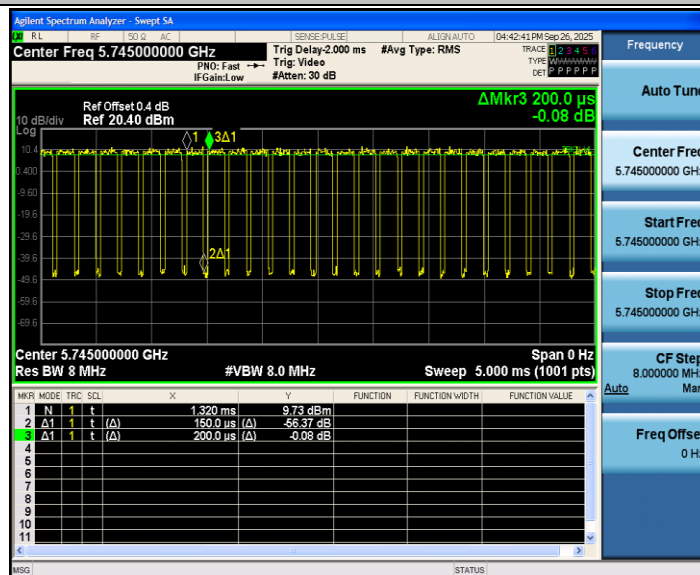
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty factor(dB)	Limit	Verdict
11A	Ant1	5180	0.15	0.20	75.00	1.25	---	---
		5220	0.15	0.20	75.00	1.25	---	---
		5240	0.15	0.20	75.00	1.25	---	---
		5745	0.15	0.20	75.00	1.25	---	---
		5785	0.14	0.19	73.68	1.33	---	---
		5825	0.15	0.20	75.00	1.25	---	---
11N20SISO	Ant1	5180	0.18	0.23	78.26	1.06	---	---
		5220	0.17	0.22	77.27	1.12	---	---
		5240	0.17	0.22	77.27	1.12	---	---
		5745	0.18	0.23	78.26	1.06	---	---
		5785	0.17	0.22	77.27	1.12	---	---
		5825	0.17	0.22	77.27	1.12	---	---
11N40SISO	Ant1	5190	0.18	0.23	78.26	1.06	---	---
		5230	0.18	0.23	78.26	1.06	---	---
		5755	0.18	0.23	78.26	1.06	---	---
		5795	0.18	0.23	78.26	1.06	---	---

Test Graphs

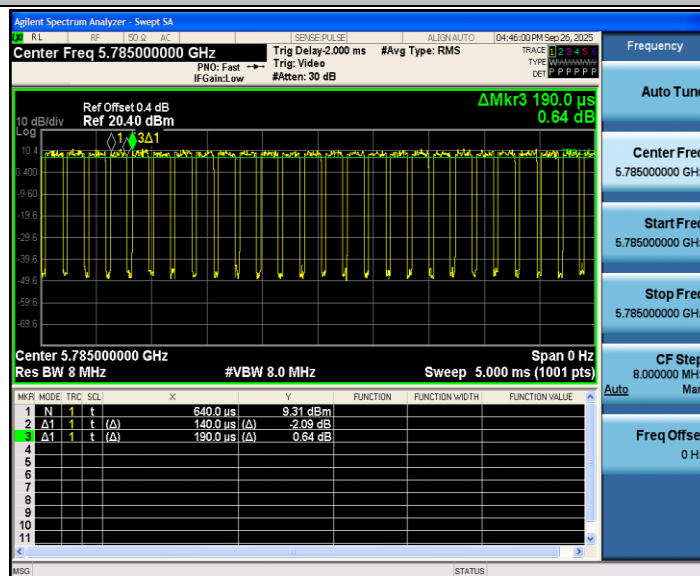




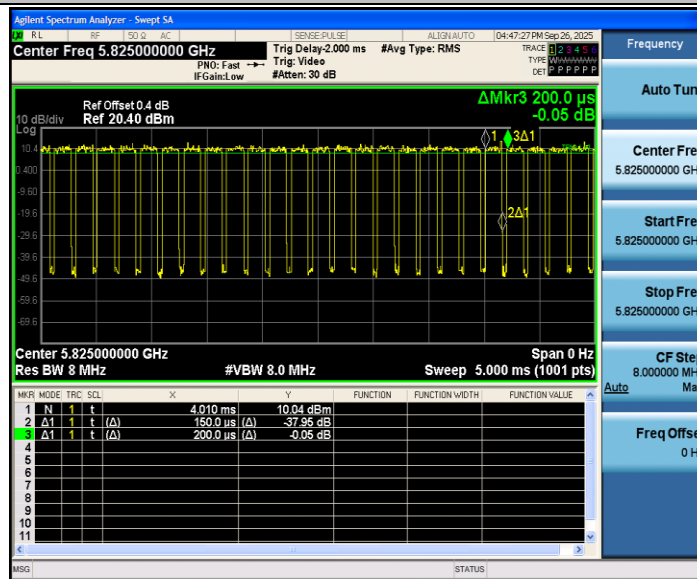
11A_Ant1_5745



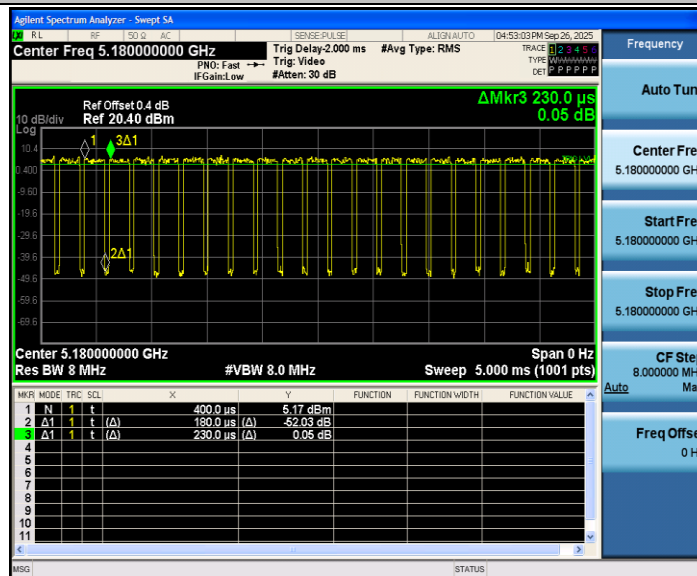
11A_Ant1_5785



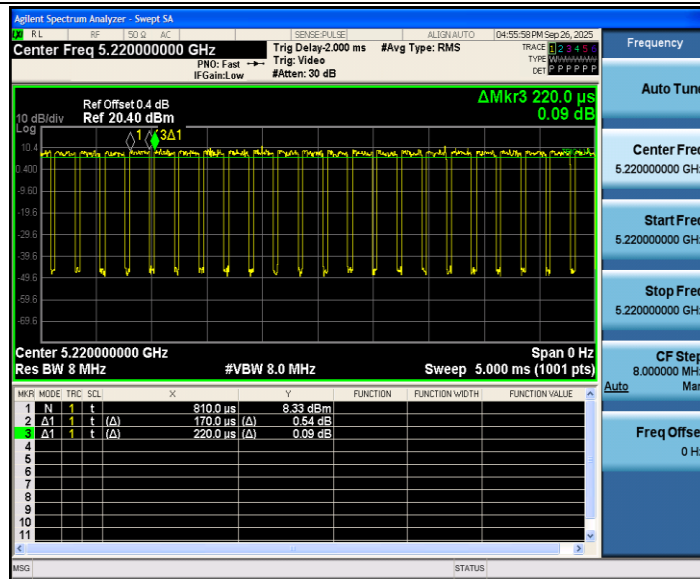
11A_Ant1_5825



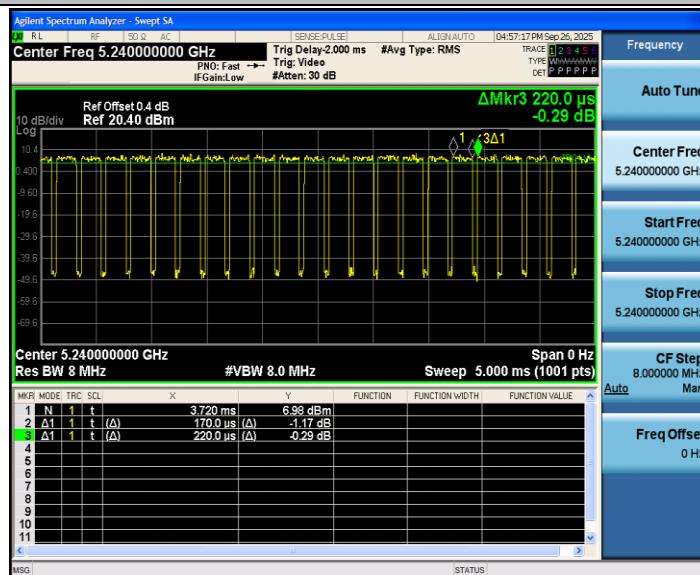
11N20SISO_Ant1_5180



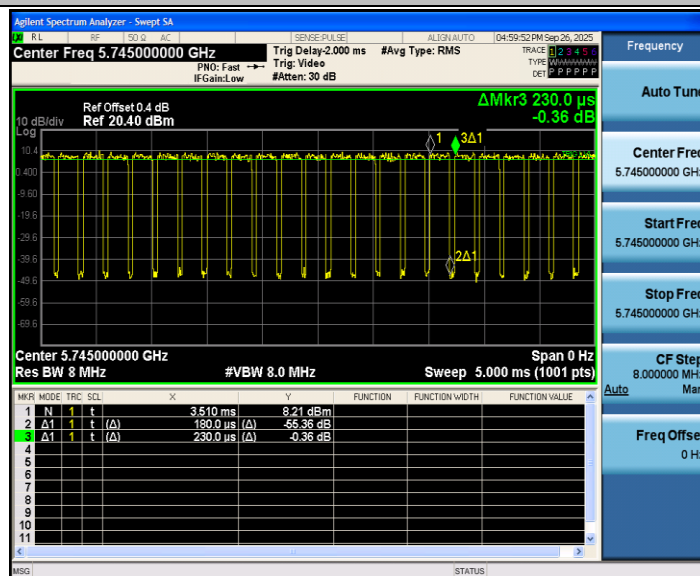
11N20SISO_Ant1_5220



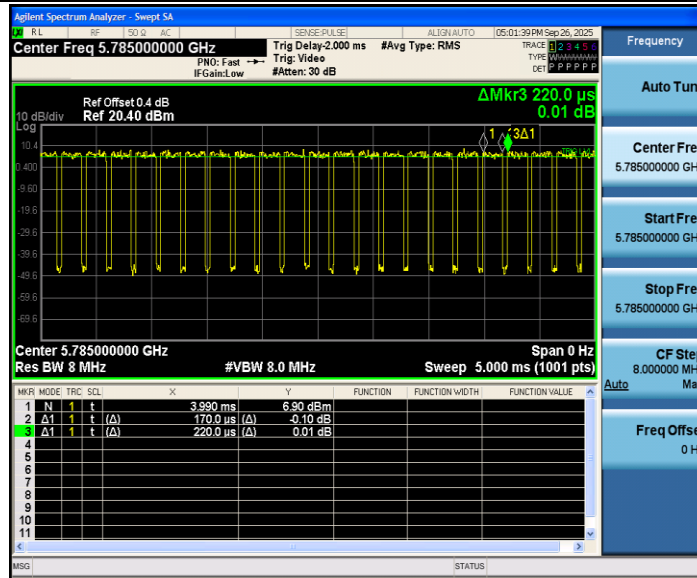
11N20SISO_Ant1_5240



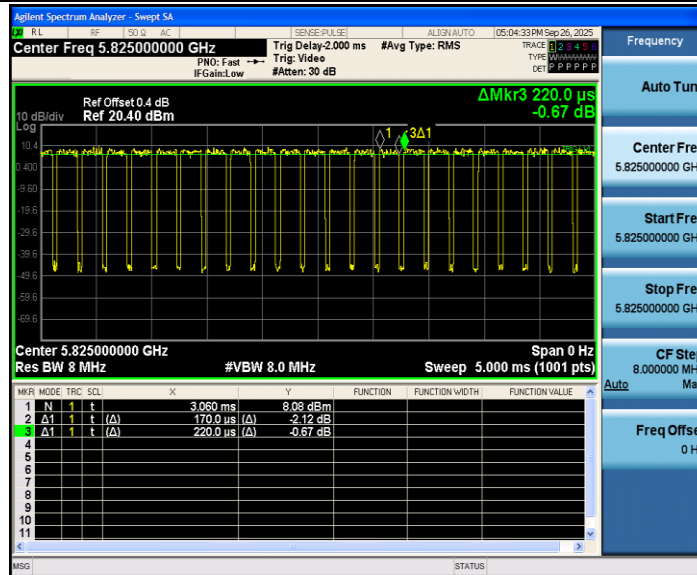
11N20SISO_Ant1_5745



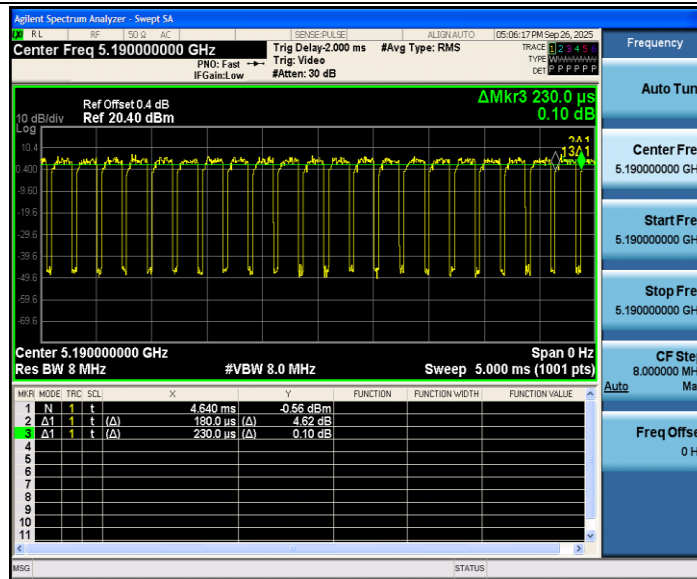
11N20SISO_Ant1_5785



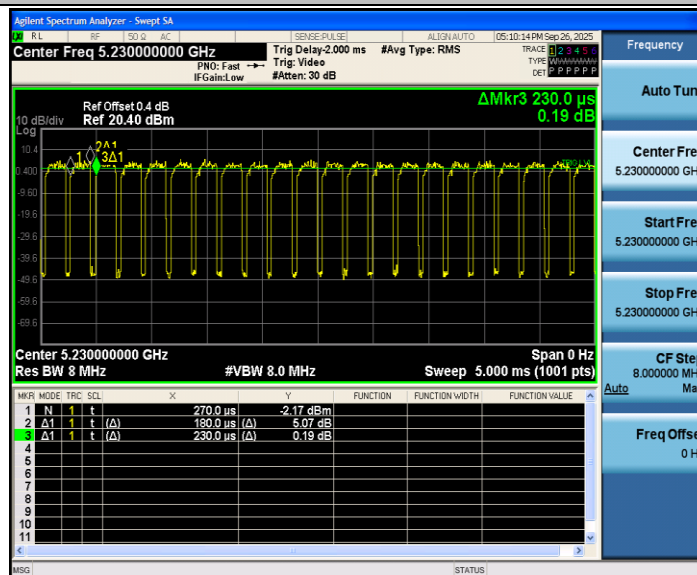
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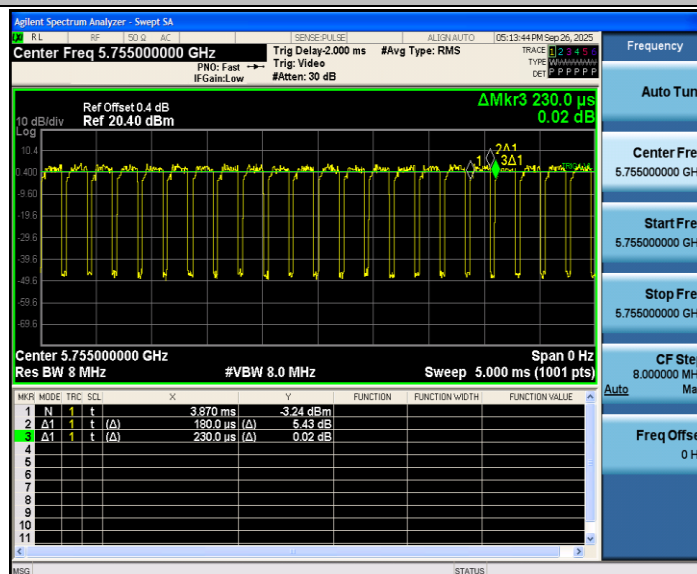
11N40SISO_Ant1_5190



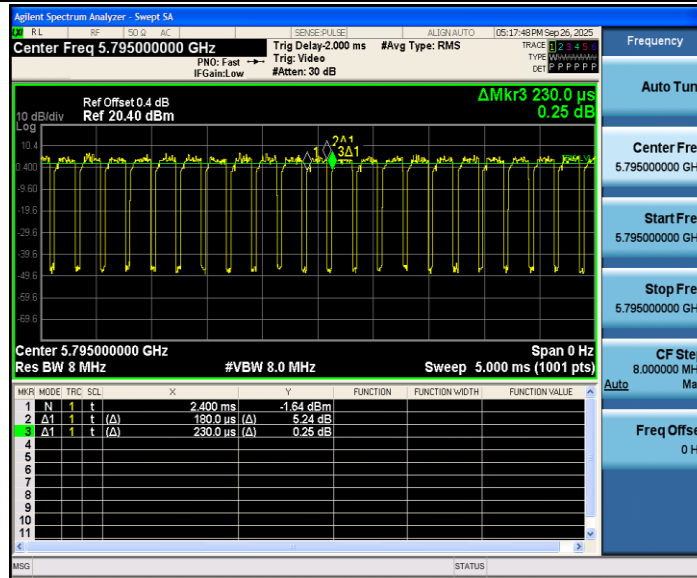
11N40SISO_Ant1_5230



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



Appendix C: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Freq(MHz)	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	3.62	75.00	1.25	4.87	≤23.98	PASS
		5220	3.84	75.00	1.25	5.09	≤23.98	PASS
		5240	3.36	75.00	1.25	4.61	≤23.98	PASS
		5745	5.45	75.00	1.25	6.70	≤30.00	PASS
		5785	5.63	73.68	1.33	6.96	≤30.00	PASS
		5825	4.33	75.00	1.25	5.58	≤30.00	PASS
11N20SISO	Ant1	5180	4.23	78.26	1.06	5.29	≤23.98	PASS
		5220	4.00	77.27	1.12	5.12	≤23.98	PASS
		5240	4.30	77.27	1.12	5.42	≤23.98	PASS
		5745	4.70	78.26	1.06	5.76	≤30.00	PASS
		5785	3.37	77.27	1.12	4.49	≤30.00	PASS
		5825	4.17	77.27	1.12	5.29	≤30.00	PASS
11N40SISO	Ant1	5190	3.83	78.26	1.06	4.89	≤23.98	PASS
		5230	3.88	78.26	1.06	4.94	≤23.98	PASS
		5755	4.74	78.26	1.06	5.80	≤30.00	PASS
		5795	4.08	78.26	1.06	5.14	≤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	-6.124	/	1.25	-4.87	≤11.00	PASS
		5220	-6.049	/	1.25	-4.80	≤11.00	PASS
		5240	-6.763	/	1.25	-5.51	≤11.00	PASS
		5745	-9.804	2.22	1.25	-6.33	≤30.00	PASS
		5785	-9.646	2.22	1.33	-6.10	≤30.00	PASS
		5825	-10.943	2.22	1.25	-7.47	≤30.00	PASS
11N20SISO	Ant1	5180	-5.913	/	1.06	-4.85	≤11.00	PASS
		5220	-7.012	/	1.12	-5.89	≤11.00	PASS
		5240	-6.199	/	1.12	-5.08	≤11.00	PASS
		5745	-10.719	2.22	1.06	-7.44	≤30.00	PASS
		5785	-12.047	2.22	1.12	-8.71	≤30.00	PASS
		5825	-11.698	2.22	1.12	-8.36	≤30.00	PASS
11N40SISO	Ant1	5190	-9.457	/	1.06	-8.40	≤11.00	PASS
		5230	-9.443	/	1.06	-8.38	≤11.00	PASS
		5755	-13.341	2.22	1.06	-10.06	≤30.00	PASS
		5795	-13.955	2.22	1.06	-10.68	≤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 kHz/300KHz).

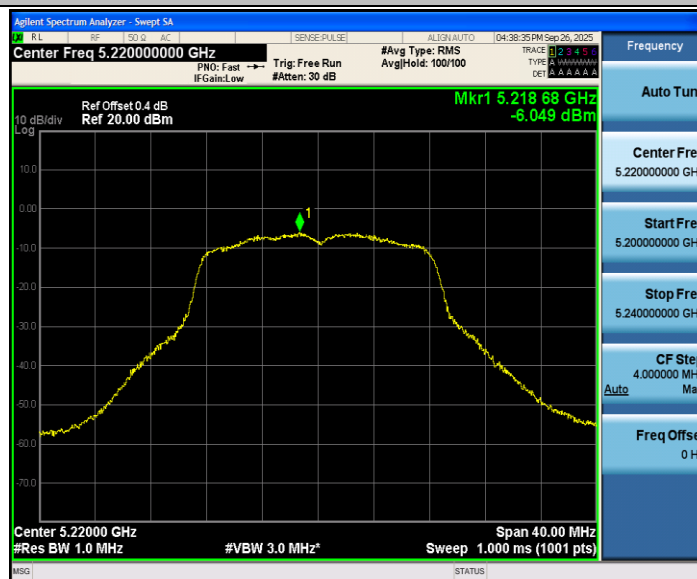
2. RBW factor= 10 log (500 KHz /300 KHz) = 2.22 dB

Test Graphs

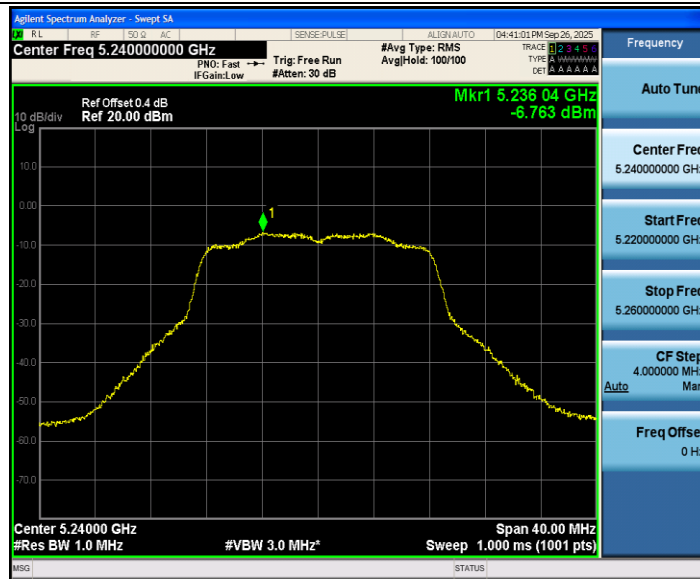
11A_Ant1_5180



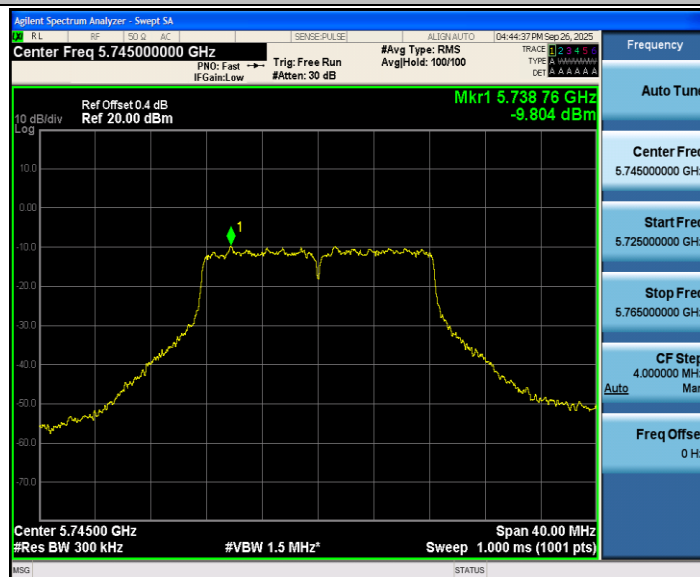
11A_Ant1_5220



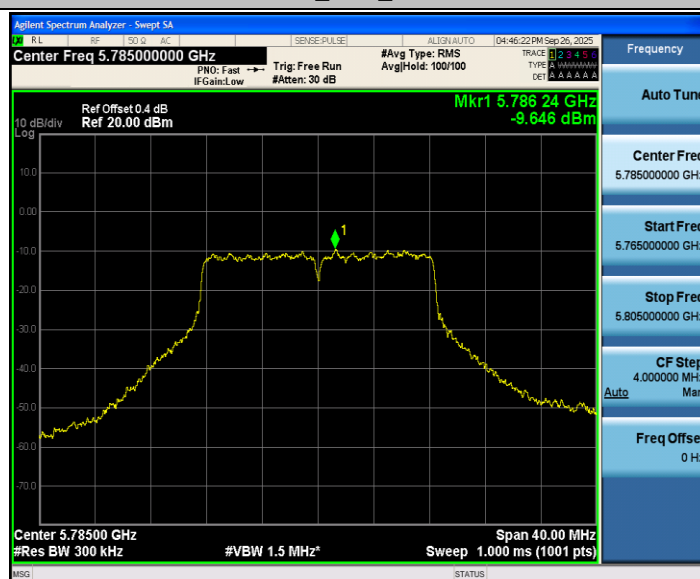
11A_Ant1_5240



11A_Ant1_5745



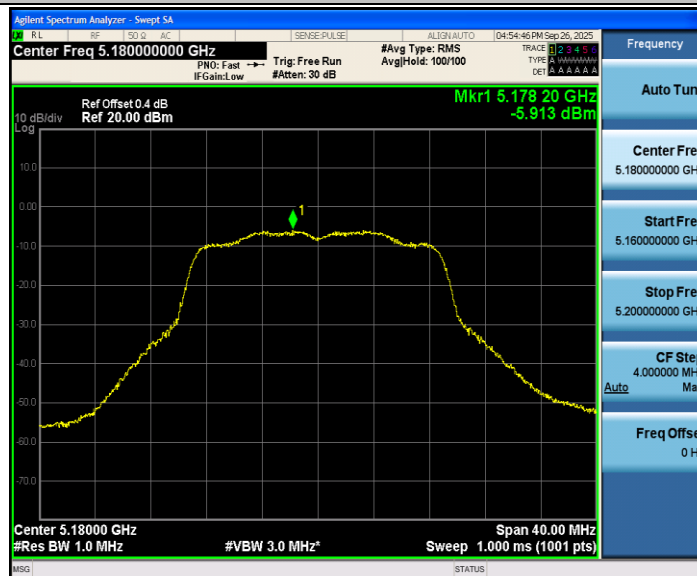
11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5180



11N20SISO_Ant1_5220