

FCC Appendix RF Test Data

FCC ID : 2BFMG-C90

Company: : Shenzhen Chuangzhan Hong Electronic Technology Co., Ltd.

EUT : Magnetic Selfie Screen

Model Number : C90

Report No. : CTA25041500802

Reviewed By : Eric Wang

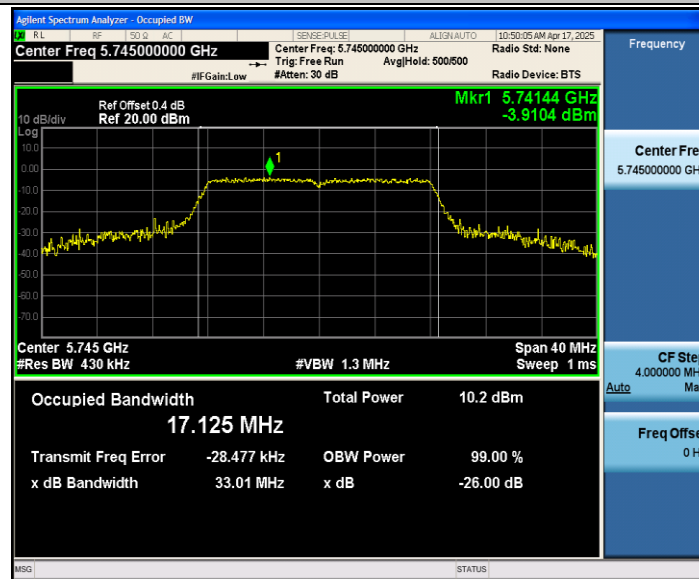
Appendix A1: Occupied channel bandwidth

Test Result

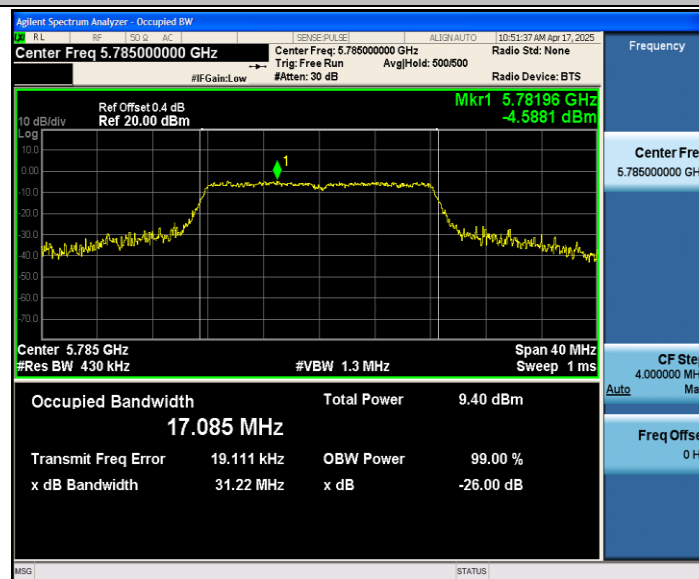
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	17.125	5736.4090	5753.5340	---	---
		5785	17.085	5776.4766	5793.5616	---	---
		5825	17.154	5816.4356	5833.5896	---	---
11N20SISO	Ant1	5745	18.090	5735.9758	5754.0658	---	---
		5785	18.097	5775.9741	5794.0711	---	---
		5825	18.085	5815.9955	5834.0805	---	---
11N40SISO	Ant1	5755	36.814	5736.7159	5773.5299	---	---
		5795	36.863	5776.7023	5813.5653	---	---

Test Graphs

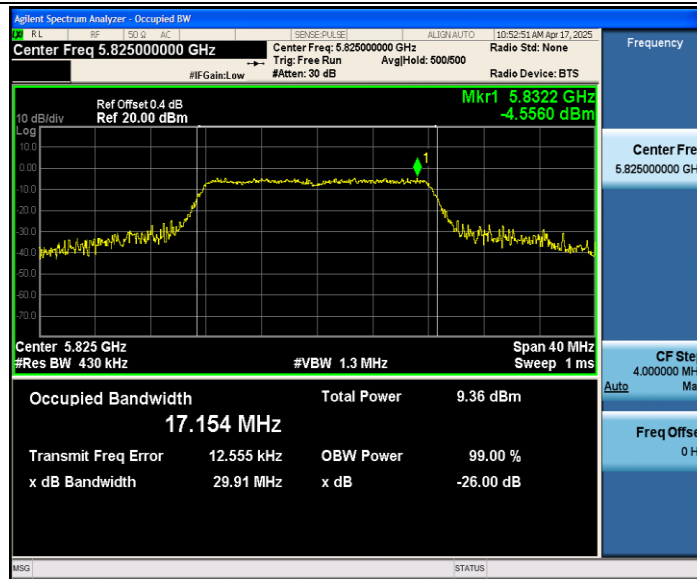
11A_Ant1_5745



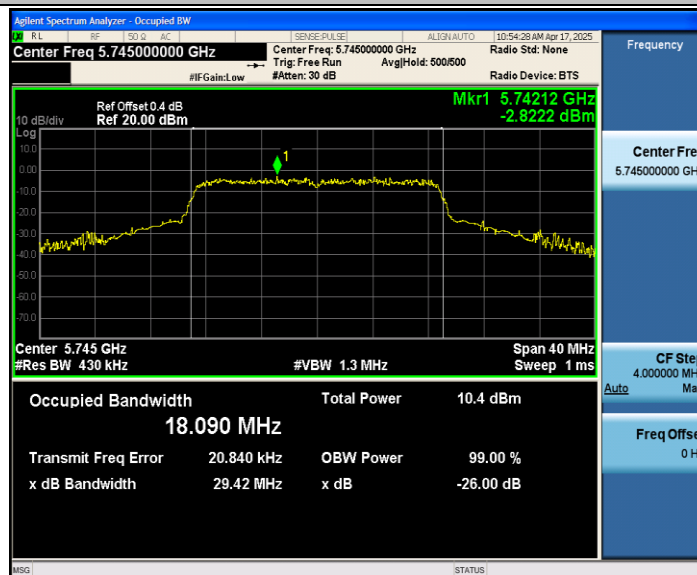
11A_Ant1_5785



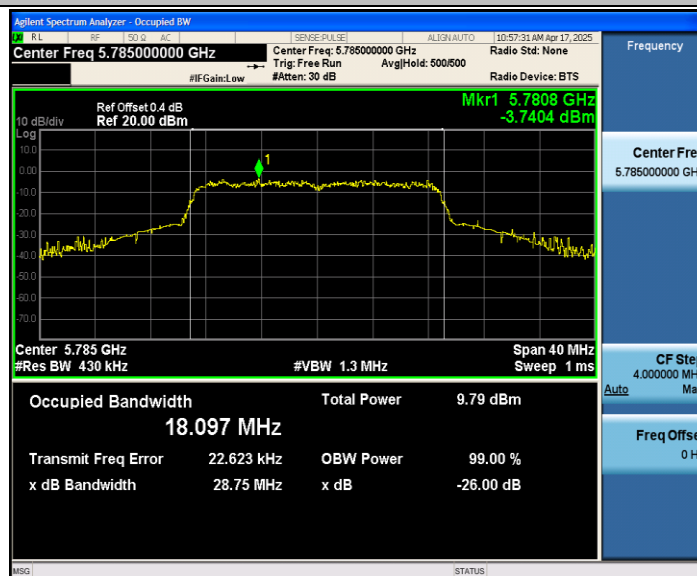
11A_Ant1_5825



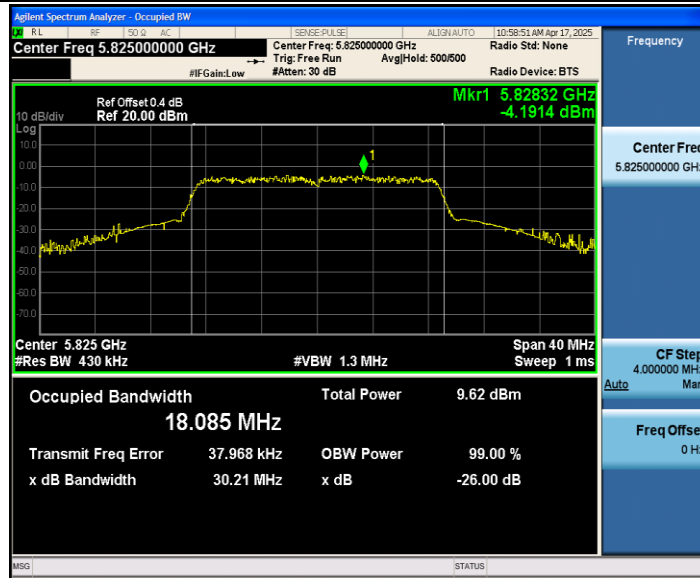
11N20SISO_Ant1_5745



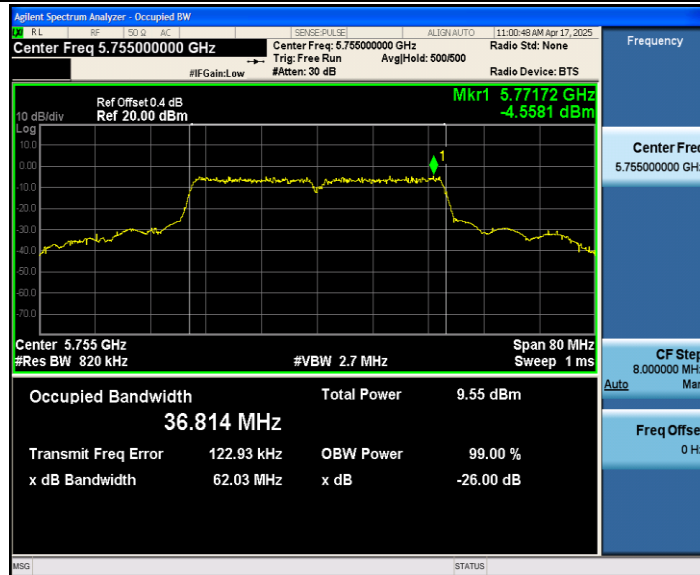
11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795

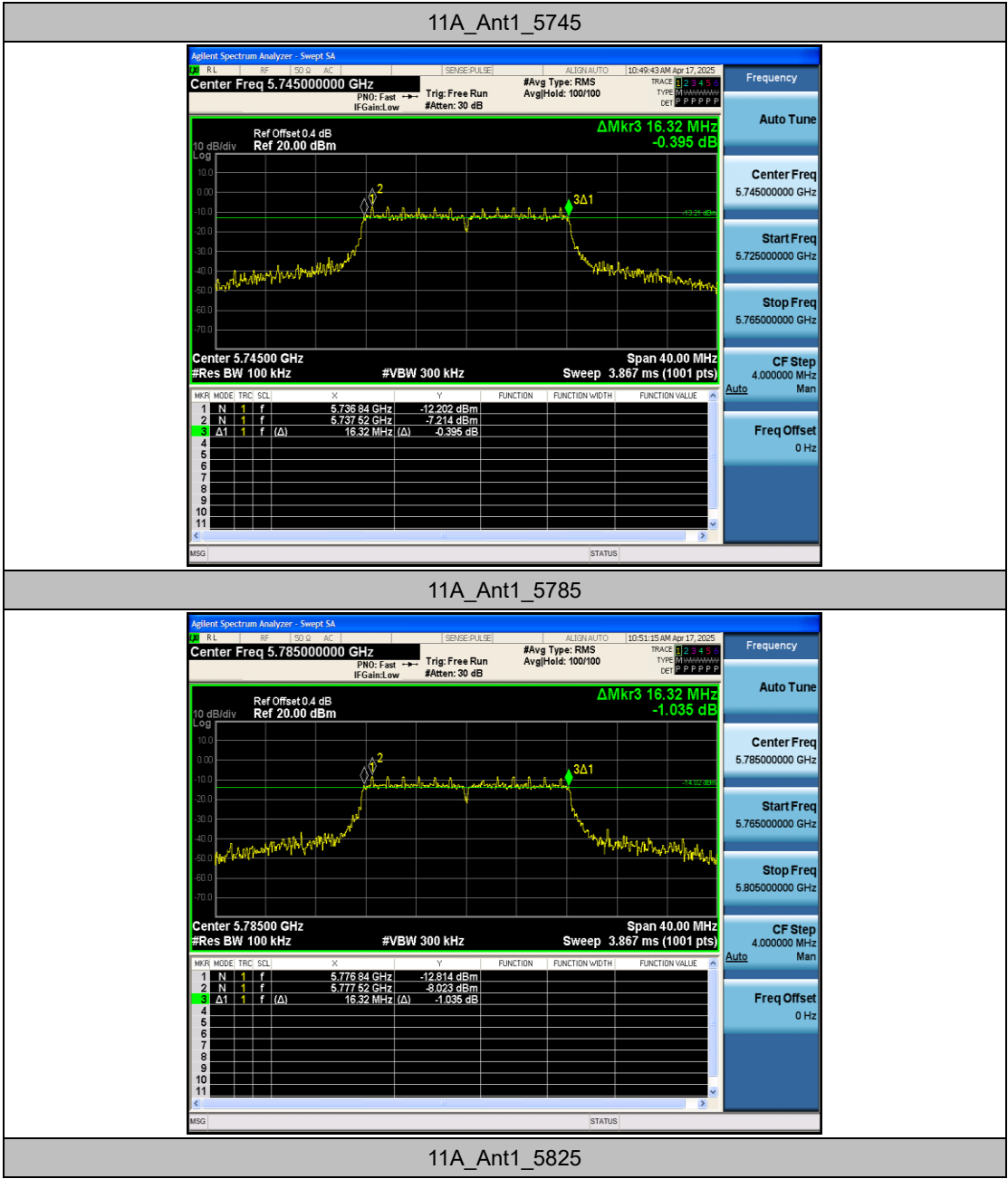


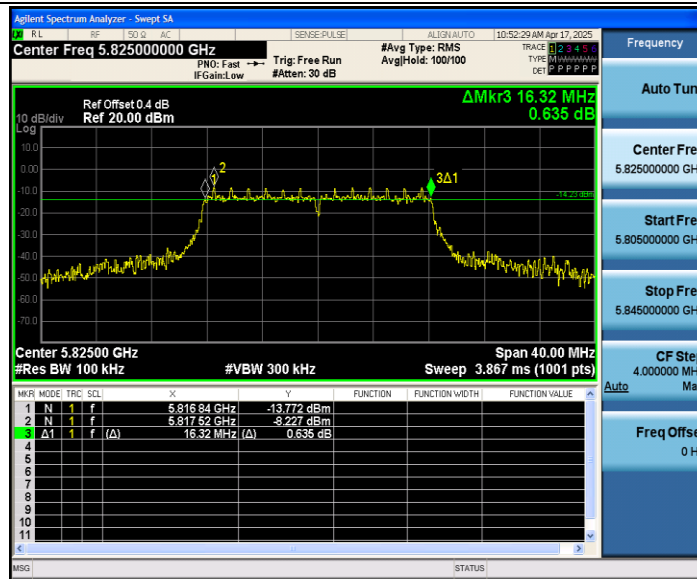
Appendix A2: Min emission bandwidth

Test Result B4

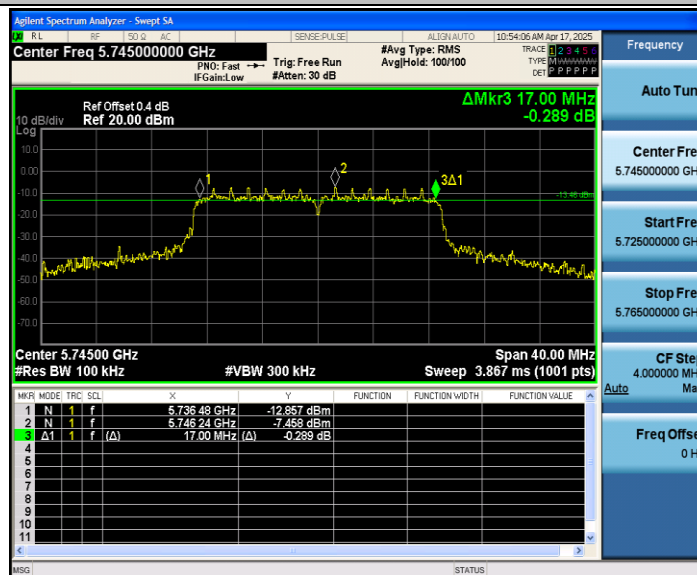
TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.320	5736.840	5753.160	0.5	PASS
		5785	16.320	5776.840	5793.160	0.5	PASS
		5825	16.320	5816.840	5833.160	0.5	PASS
11N20SISO	Ant1	5745	17.000	5736.480	5753.480	0.5	PASS
		5785	16.920	5776.440	5793.360	0.5	PASS
		5825	16.800	5816.520	5833.320	0.5	PASS
11N40SISO	Ant1	5755	36.000	5737.080	5773.080	0.5	PASS
		5795	35.680	5777.240	5812.920	0.5	PASS

Test Graphs B4

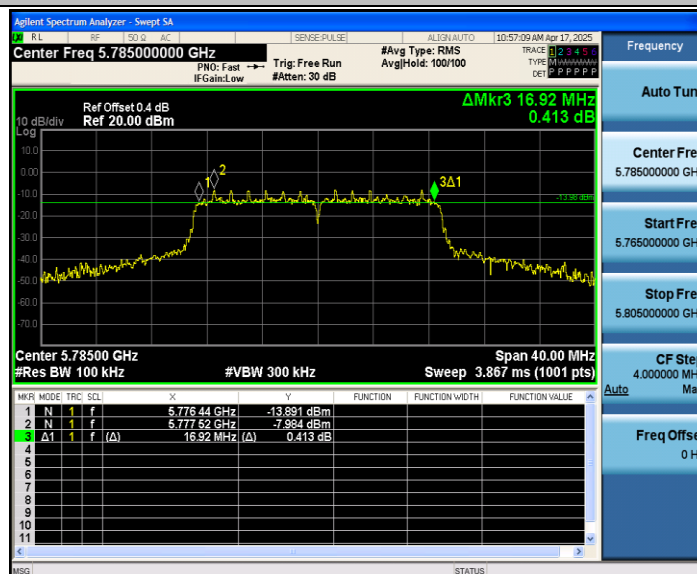




11N20SISO_Ant1_5745



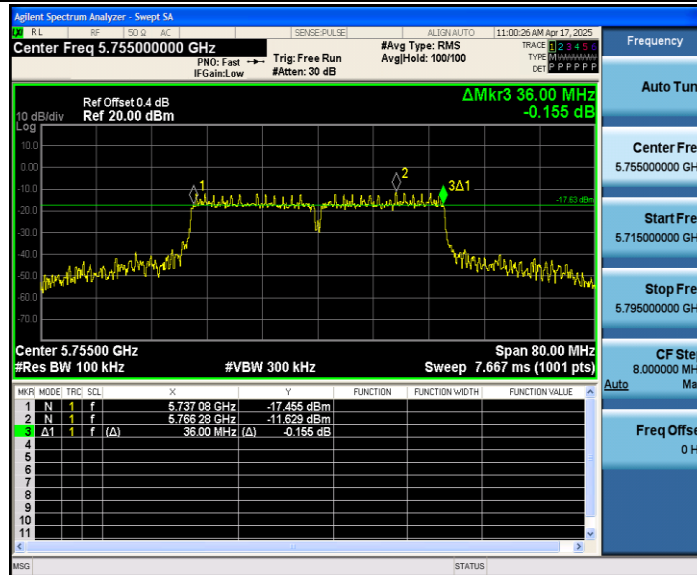
11N20SISO_Ant1_5785



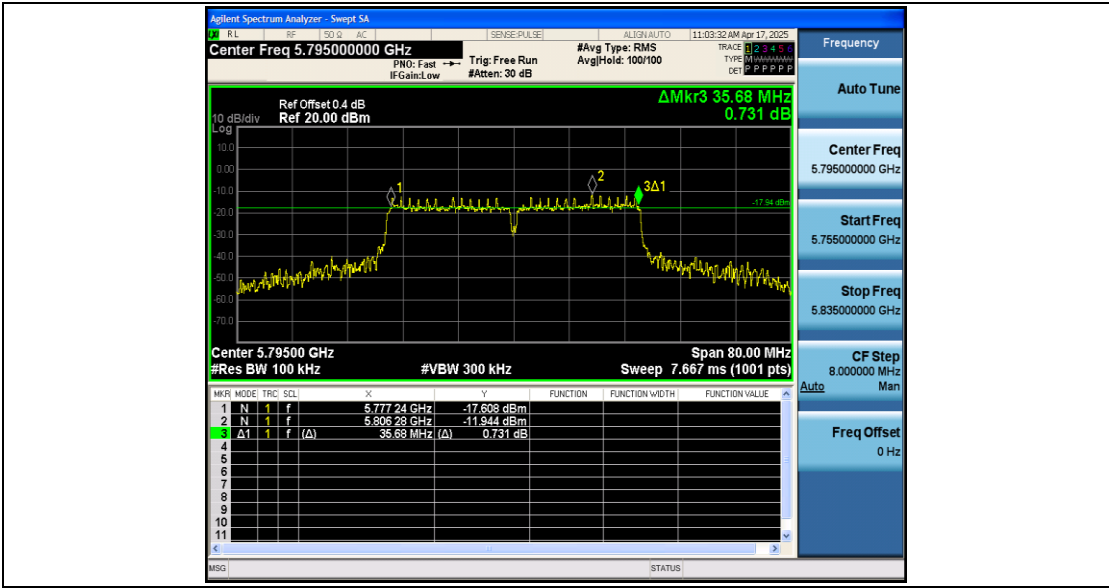
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795

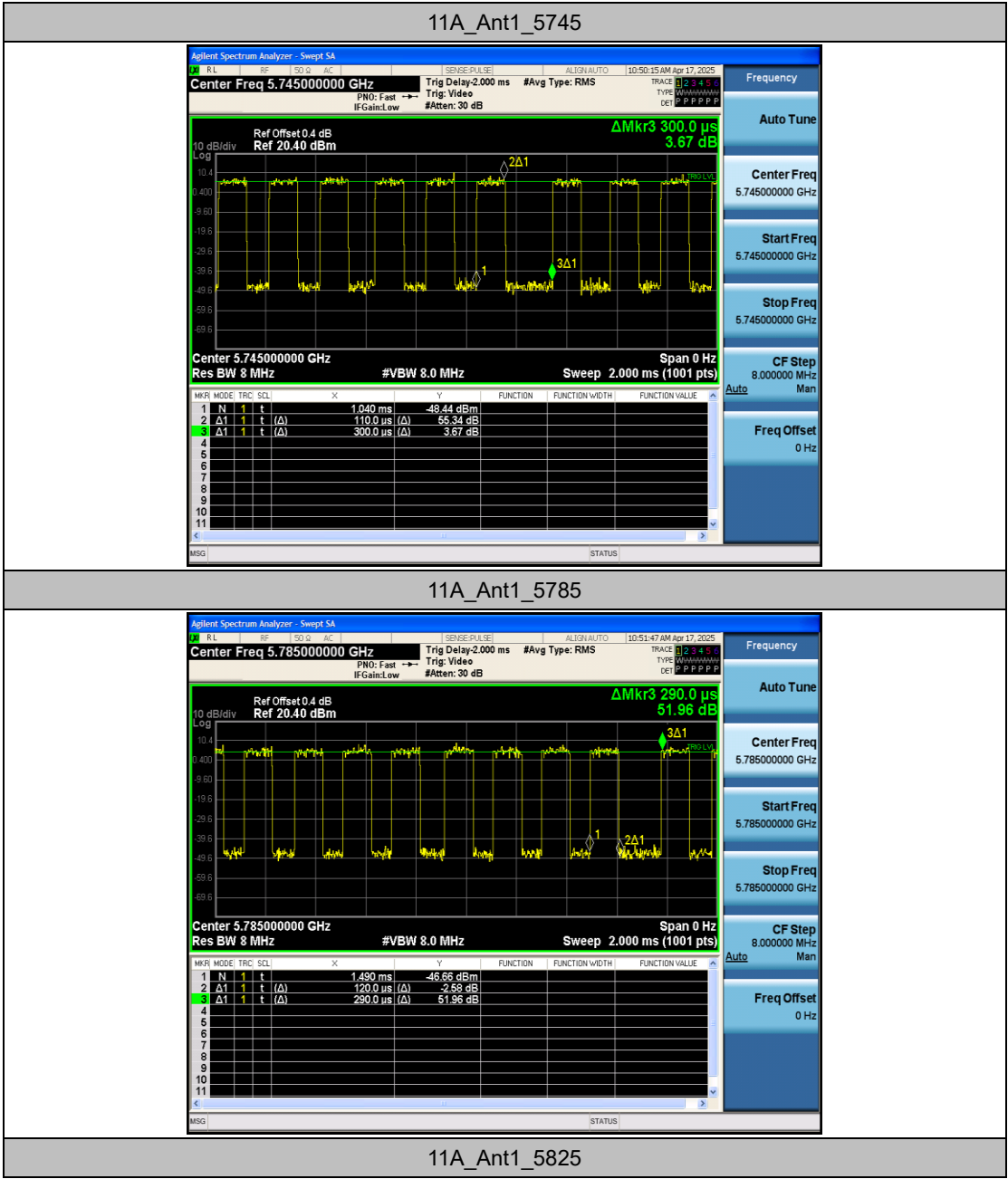


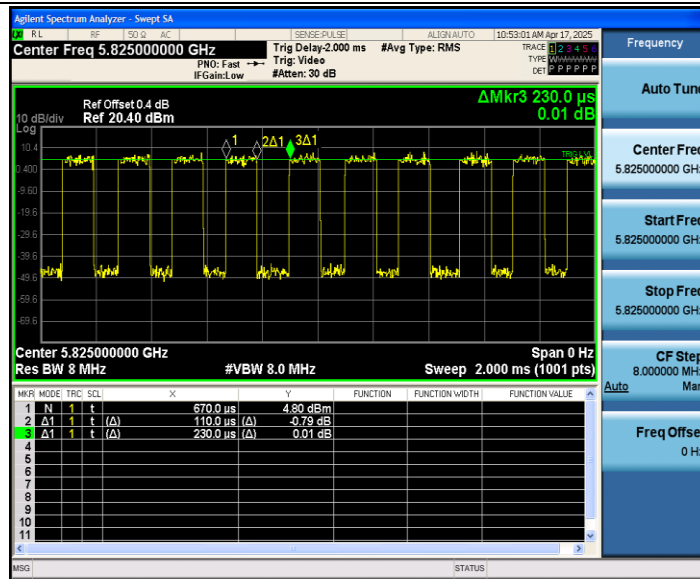
Appendix B: Duty Cycle

Test Result

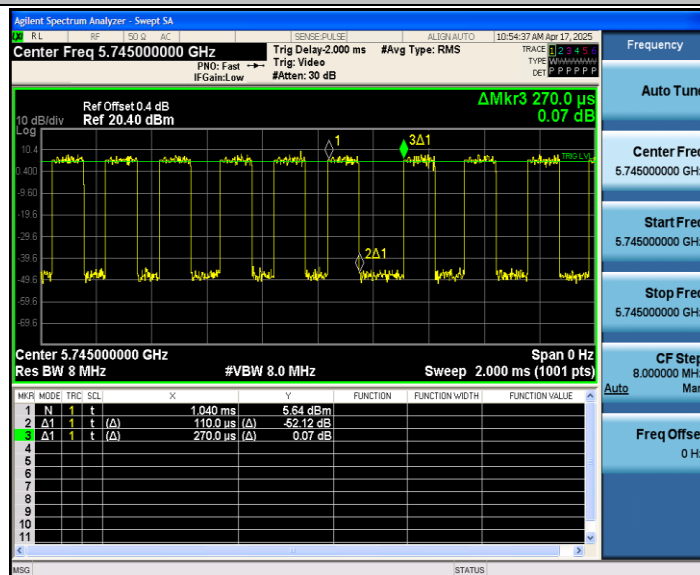
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty factor(dB)	Limit	Verdict
11A	Ant1	5745	0.11	0.30	36.67	4.36	---	---
		5785	0.12	0.29	41.38	3.83	---	---
		5825	0.11	0.23	47.83	3.20	---	---
11N20SISO	Ant1	5745	0.11	0.27	40.74	3.90	---	---
		5785	0.11	0.26	42.31	3.74	---	---
		5825	0.11	0.28	39.29	4.06	---	---
11N40SISO	Ant1	5755	0.07	0.24	29.17	5.35	---	---
		5795	0.07	0.30	23.33	6.32	---	---

Test Graphs

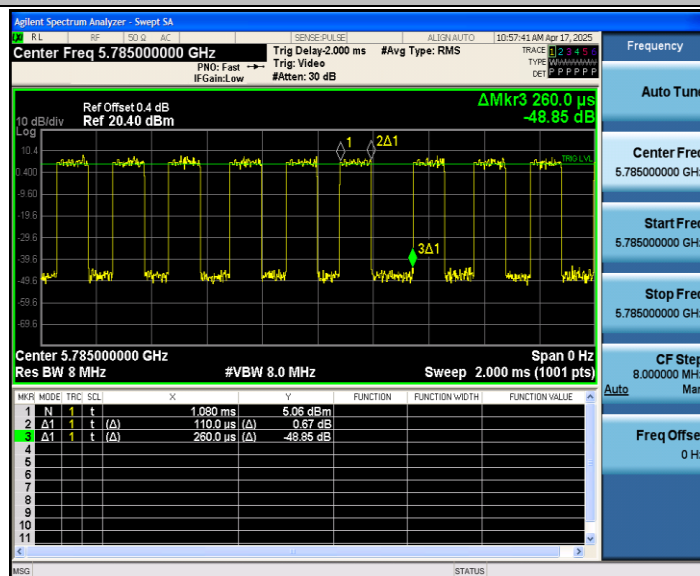




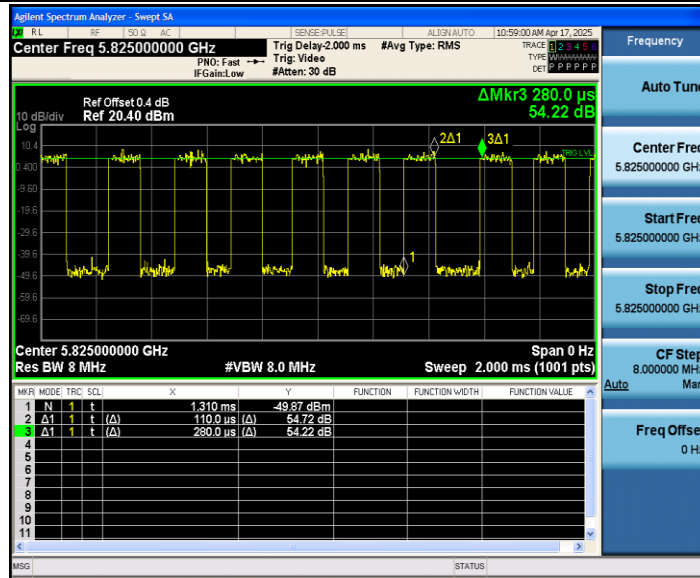
11N20SISO_Ant1_5745



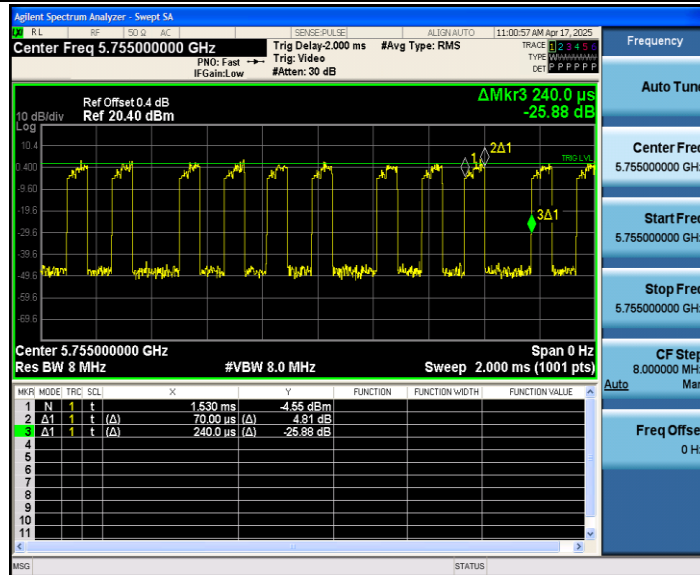
11N20SISO_Ant1_5785



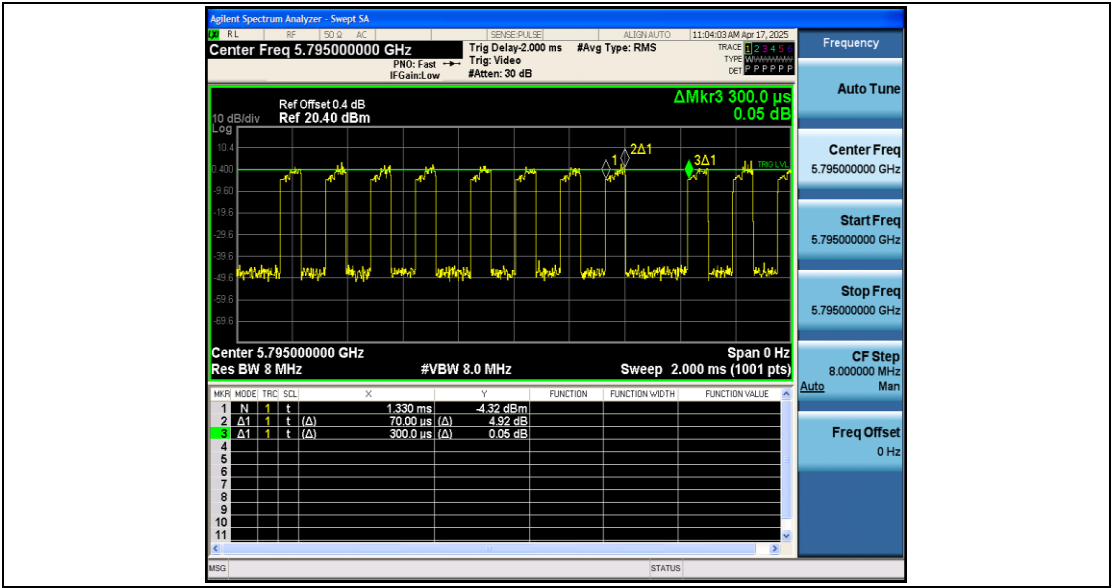
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



Appendix C: Maximum conducted output power

Test Mode	Antenna	Freq(MHz)	Maximum conducted Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Total power Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	0.86	36.67	4.36	5.22	≤30.00	PASS
		5785	0.14	41.38	3.83	3.97	≤30.00	PASS
		5825	0.09	47.83	3.20	3.29	≤30.00	PASS
11N20SISO	Ant1	5745	0.94	40.74	3.90	4.84	≤30.00	PASS
		5785	0.23	42.31	3.74	3.97	≤30.00	PASS
		5825	0.04	39.29	4.06	4.10	≤30.00	PASS
11N40SISO	Ant1	5755	-1.79	29.17	5.35	3.56	≤30.00	PASS
		5795	-2.30	23.33	6.32	4.02	≤30.00	PASS

Note: The Duty Cycle Factor is compensated in the graph.

Total power= Maximum conducted Power+Duty factor

Appendix D: Maximum power spectral density

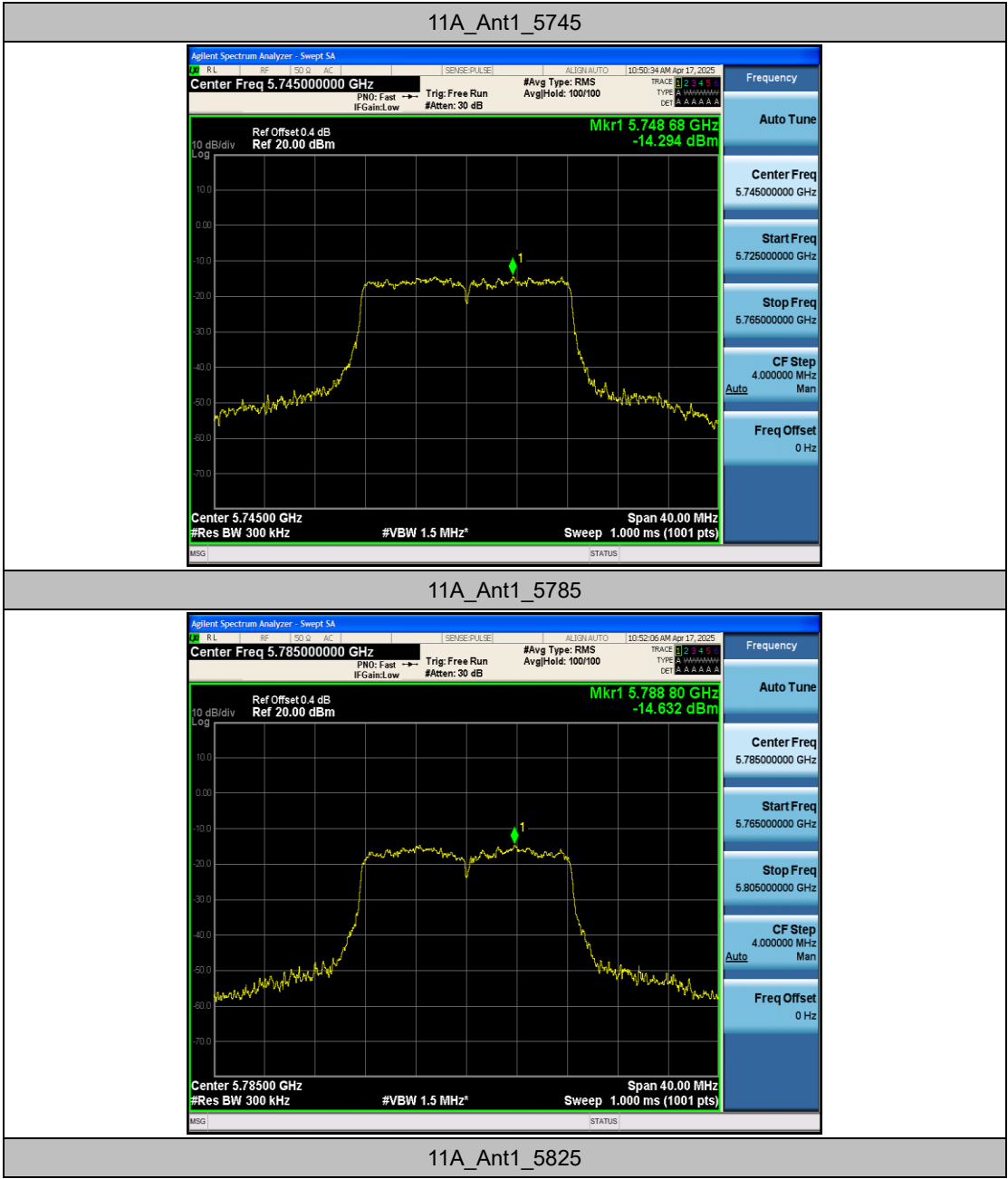
Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/300KHz]	RBW Factor (dB)	Duty factor (dB)	Result [dBm/500KHz]	Limit [dBm/500KHz]	Verdict
11A	Ant1	5745	-14.29	2.22	4.36	-7.71	≤30.00	PASS
		5785	-14.63	2.22	3.83	-8.58	≤30.00	PASS
		5825	-15.37	2.22	3.20	-9.95	≤30.00	PASS
11N20SISO	Ant1	5745	-14.53	2.22	3.90	-8.41	≤30.00	PASS
		5785	-14.90	2.22	3.74	-8.94	≤30.00	PASS
		5825	-15.00	2.22	4.06	-8.72	≤30.00	PASS
11N40SISO	Ant1	5755	-19.59	2.22	5.35	-12.02	≤30.00	PASS
		5795	-19.98	2.22	6.32	-11.44	≤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)=2.22 dB.

Test Graphs

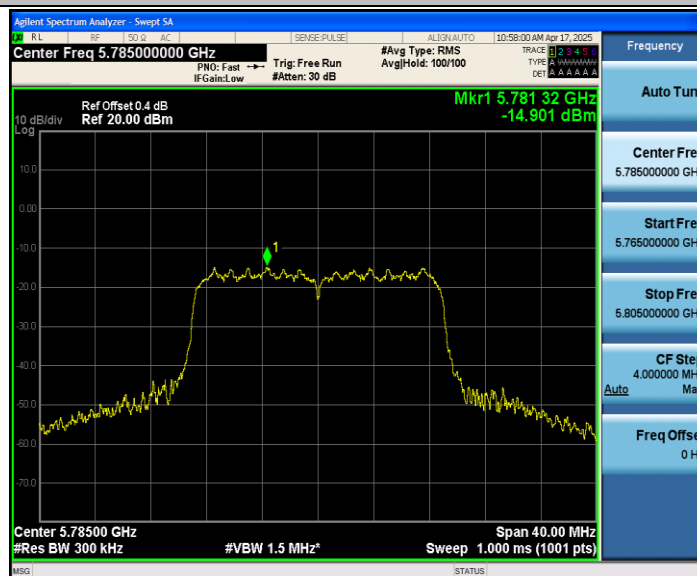




11N20SISO_Ant1_5745



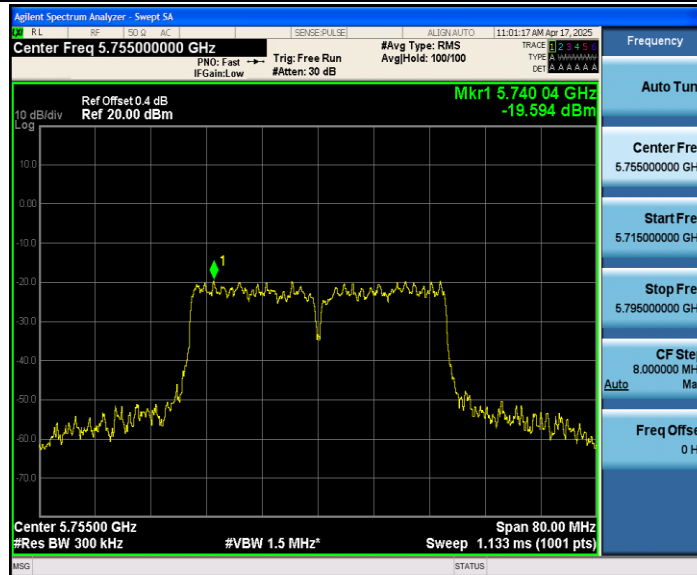
11N20SISO_Ant1_5785



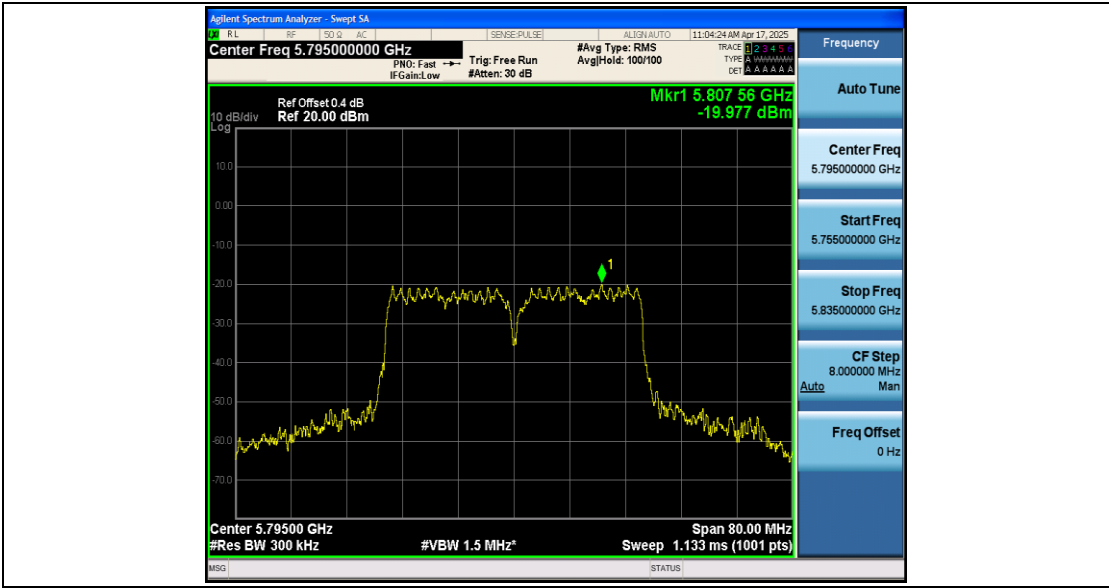
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



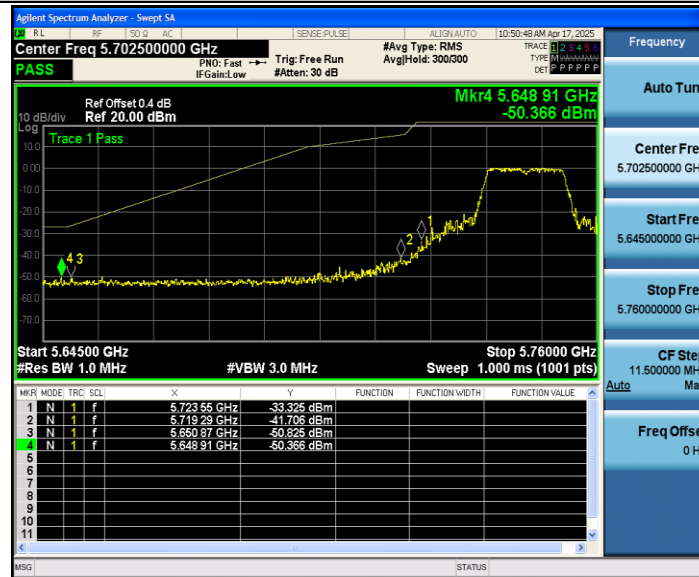
Appendix E: Band edge measurements

Test Result B4

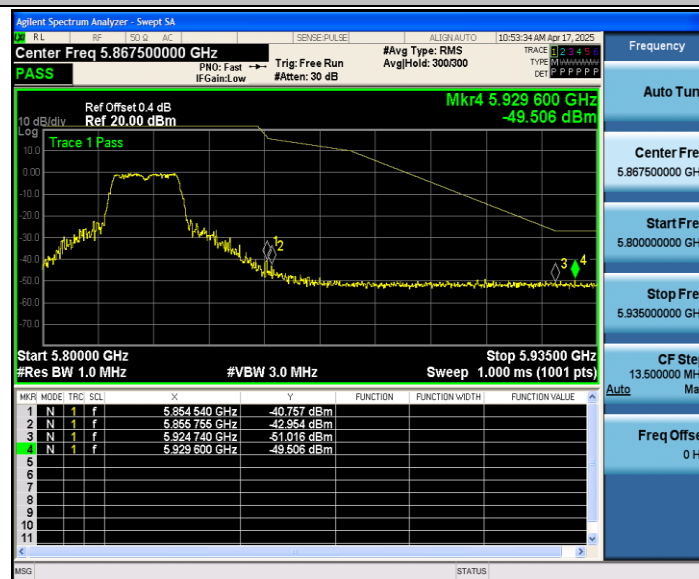
TestMode	Antenna	ChName	Freq(MHz)	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-50.83	≤-26.36	PASS
				5700~5720	-41.71	≤15.40	PASS
				5720~5725	-33.33	≤23.68	PASS
				5760~5650	-50.37	≤-27	PASS
		High	5825	5850~5855	-40.76	≤16.65	PASS
				5855~5875	-42.95	≤15.39	PASS
				5875~5925	-51.02	≤-26.81	PASS
				5925~5935	-49.51	≤-27	PASS
11N20SI SO	Ant1	Low	5745	5650~5700	-51.2	≤-26.96	PASS
				5700~5720	-42.64	≤15.24	PASS
				5720~5725	-27.88	≤24.21	PASS
				5760~5650	-51.14	≤-27	PASS
		High	5825	5850~5855	-42.7	≤16.34	PASS
				5855~5875	-43.49	≤14.75	PASS
				5875~5925	-50.69	≤-26.71	PASS
				5925~5935	-49.56	≤-27	PASS
11N40SI SO	Ant1	Low	5755	5650~5700	-50.84	≤-26.10	PASS
				5700~5720	-33.38	≤15.47	PASS
				5720~5725	-33.51	≤15.74	PASS
				5780~5650	-51.77	≤-27	PASS
		High	5795	5850~5855	-50.58	≤15.66	PASS
				5855~5875	-50.39	≤10.25	PASS
				5875~5925	-51.09	≤-26.71	PASS
				5925~5935	-50.72	≤-27	PASS

Test Graphs B4

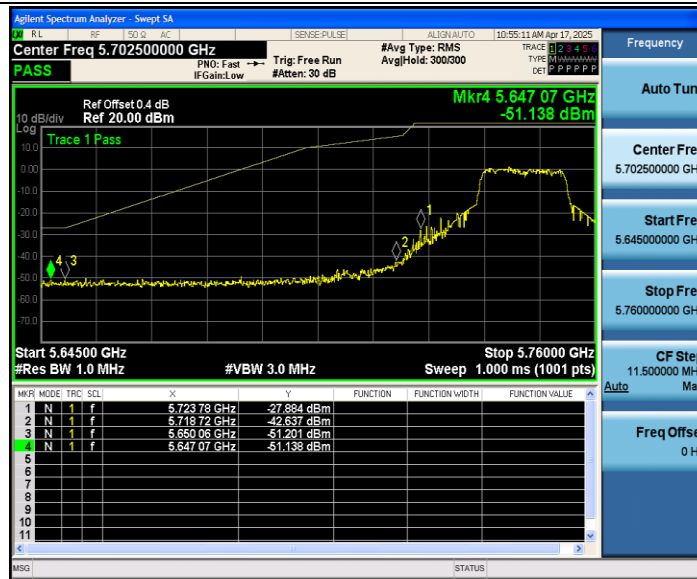
11A_Ant1_Low_5745



11A_Ant1_High_5825



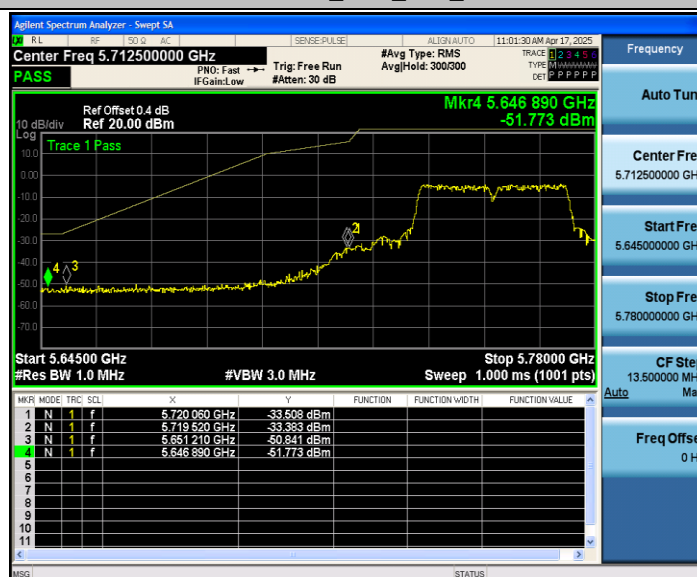
11N20SISO_Ant1_Low_5745



11N20ISO_Ant1_High_5825



11N40ISO_Ant1_Low_5755



11N40SISO_Ant1_High_5795

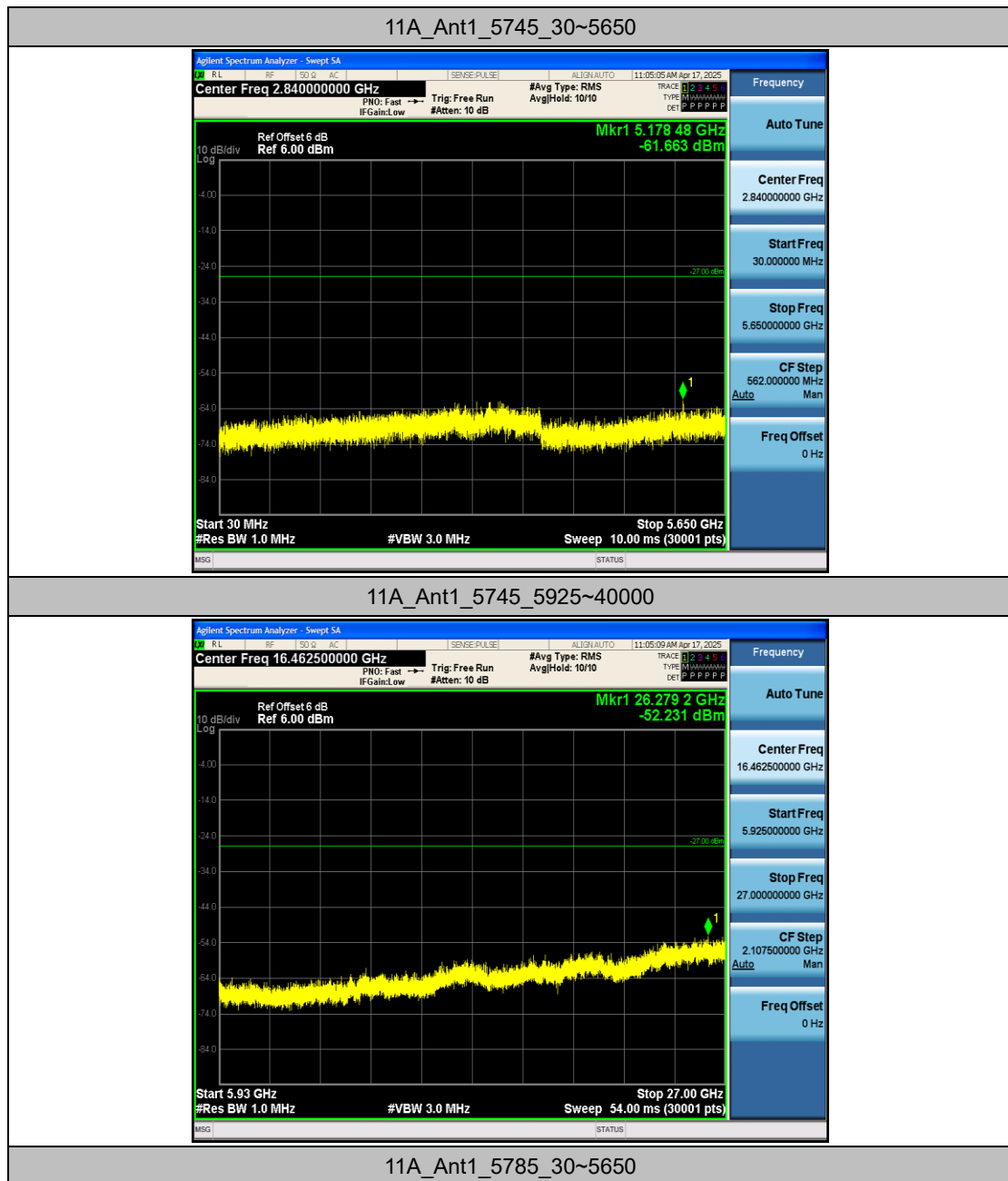


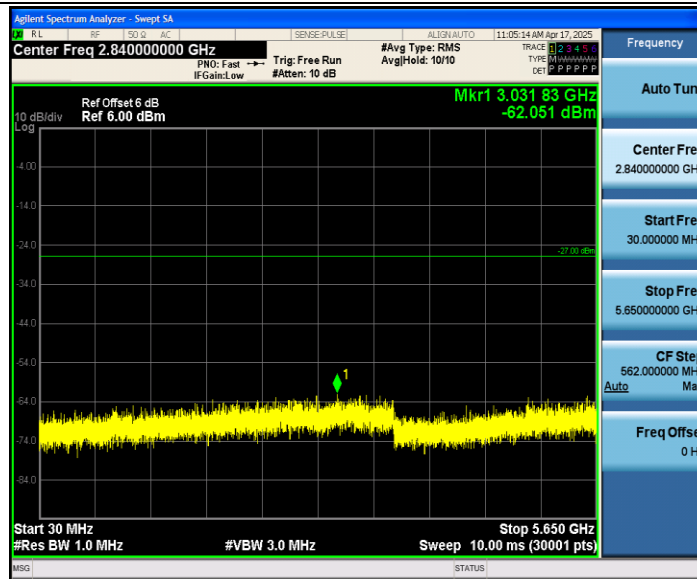
Appendix F: Conducted Spurious Emission

Test Result

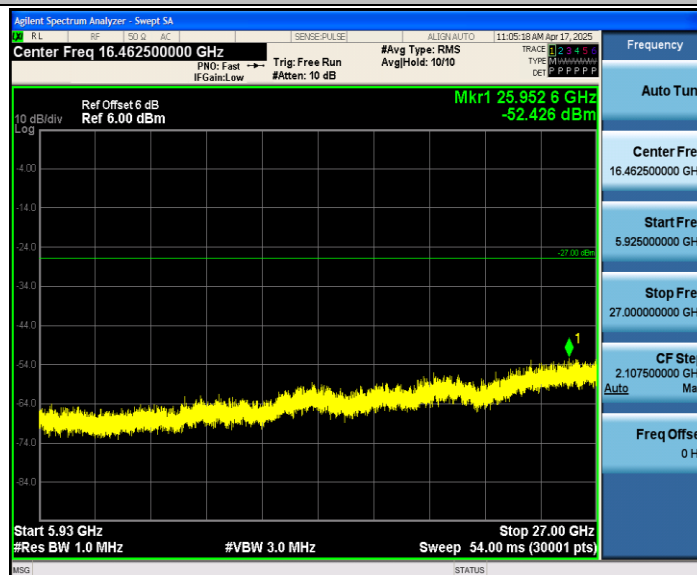
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	30~5650	5178.48	-61.66	≤-27	PASS
			5925~40000	26279.24	-52.23	≤-27	PASS
		5785	30~5650	3031.83	-62.05	≤-27	PASS
			5925~40000	25952.57	-52.43	≤-27	PASS
		5825	30~5650	3161.09	-61.57	≤-27	PASS
			5925~40000	26159.11	-51.81	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	3287.35	-61.73	≤-27	PASS
			5925~40000	25864.76	-52.22	≤-27	PASS
		5785	30~5650	3178.32	-61.88	≤-27	PASS
			5925~40000	26243.41	-52.55	≤-27	PASS
		5825	30~5650	3170.46	-62.12	≤-27	PASS
			5925~40000	26625.57	-52.66	≤-27	PASS
11N40SISO	Ant1	5755	30~5650	2614.08	-62.18	≤-27	PASS
			5925~40000	26003.15	-52.36	≤-27	PASS
		5795	30~5650	5177.73	-60.1	≤-27	PASS
			5925~40000	25996.83	-52.96	≤-27	PASS

Test Graphs

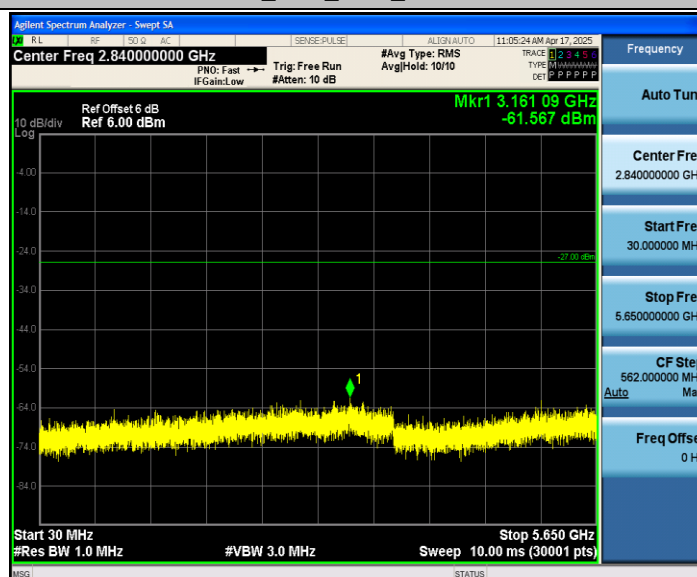




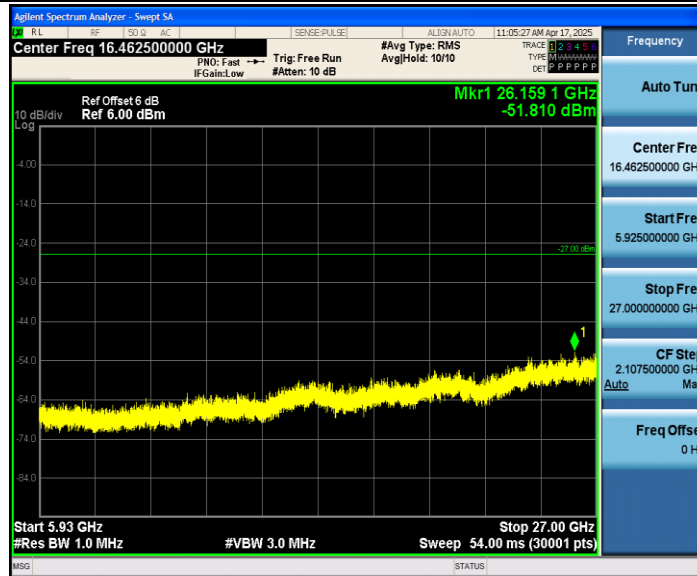
11A_Ant1_5785_5925~40000



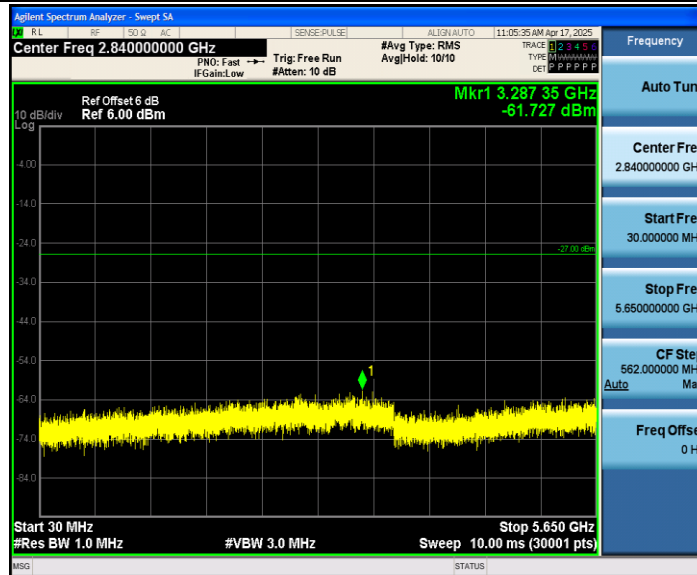
11A_Ant1_5825_30~5650



11A_Ant1_5825_5925~40000



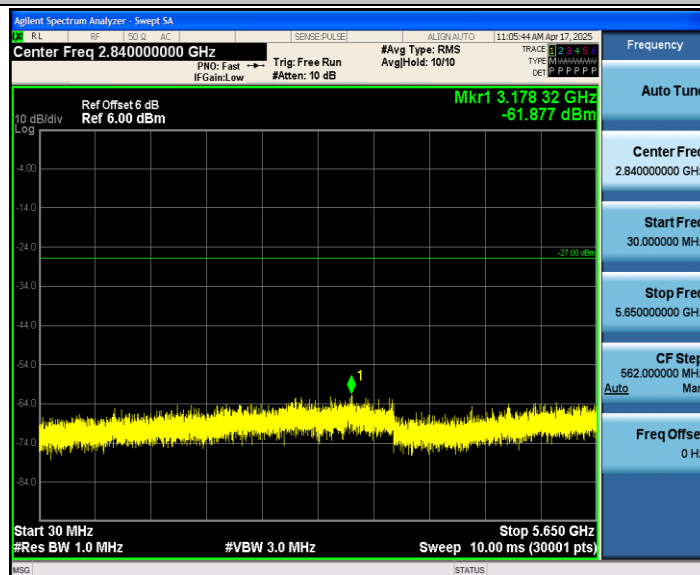
11N20SISO_Ant1_5745_30~5650



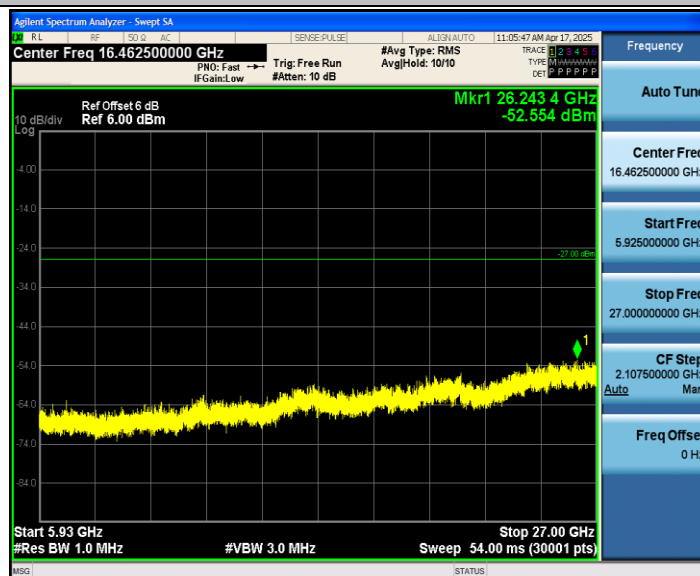
11N20SISO_Ant1_5745_5925~40000



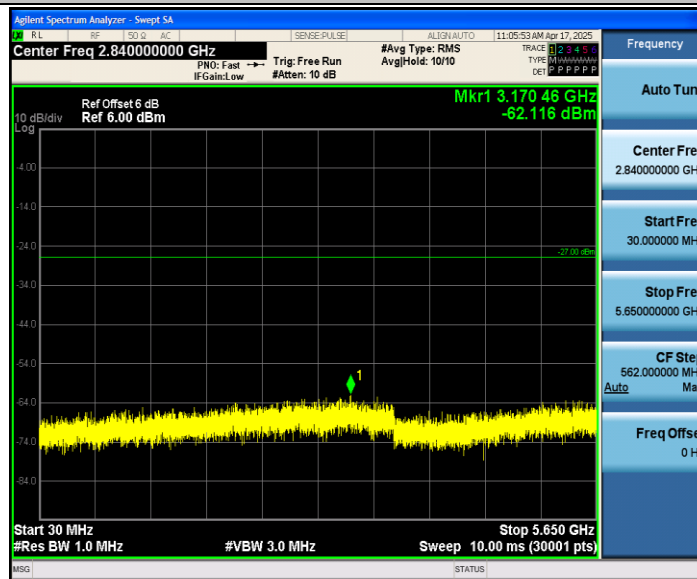
11N20SISO_Ant1_5785_30~5650



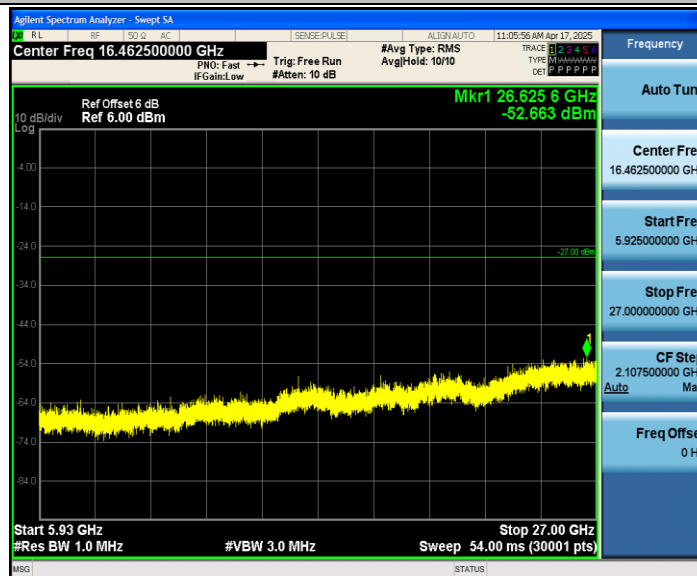
11N20SISO_Ant1_5785_5925~40000



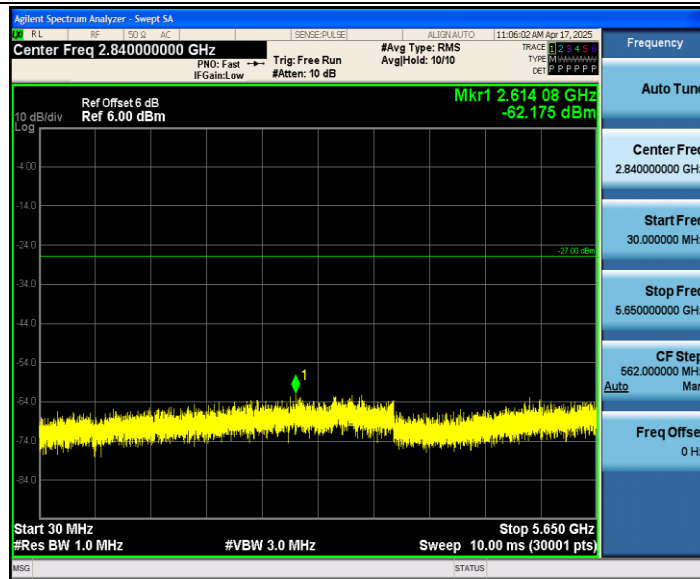
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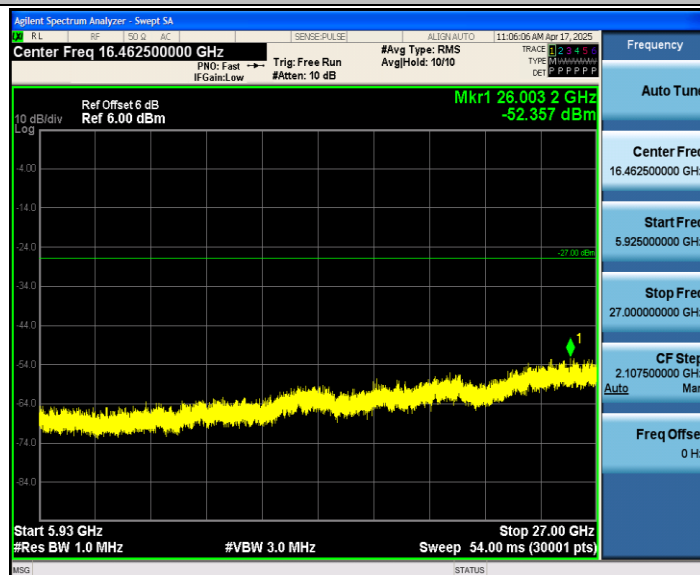
11N20SISO_Ant1_5825_5925~40000



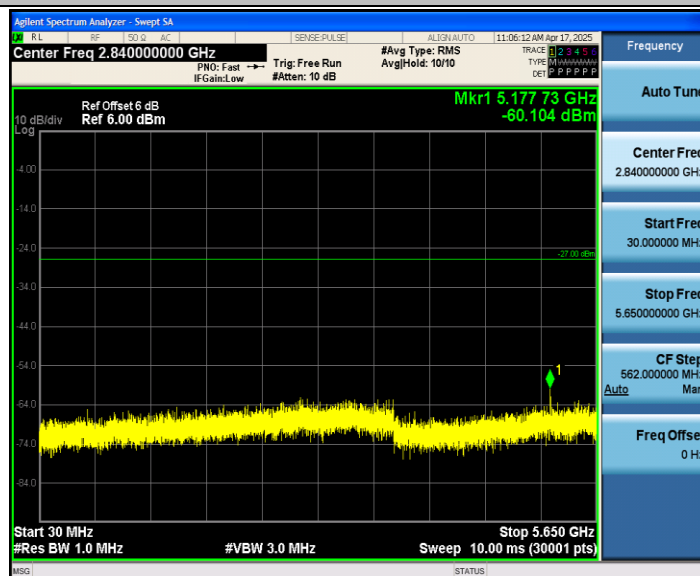
11N40SISO_Ant1_5755_30~5650



11N40SISO_Ant1_5755_5925~40000



11N40SISO_Ant1_5795_30~5650



11N40SISO_Ant1_5795_5925~40000

