

FCC Appendix RF Test Data for 5.8GWIFI

FCC ID : 2BF2M-LINK-W67

Company : Beijing Dasung Tech Co., Ltd.

EUT : Electronic ink mobile phone display

Model Number : Link-w67

Report No. : CTA26051801502

Reviewed By : Eric Wang

Appendix A1: Emission Bandwidth

Test Result

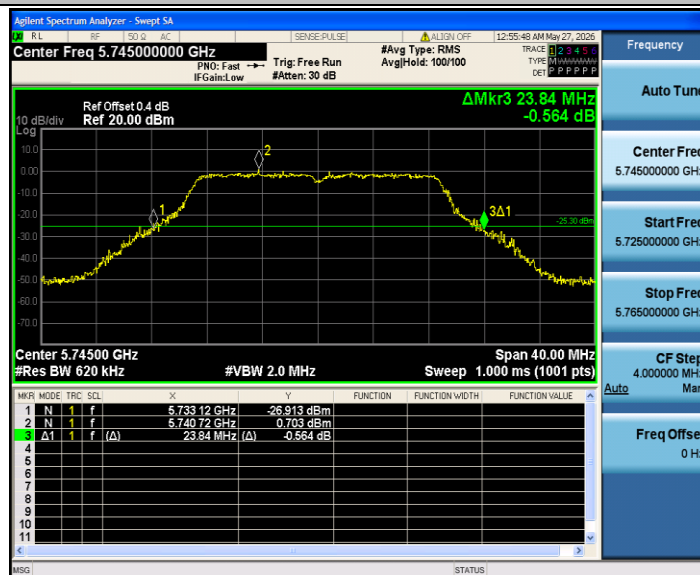
TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	23.600	5733.000	5756.600	---	---
		5785	24.080	5773.080	5797.160	---	---
		5825	24.960	5812.680	5837.640	---	---
11N20SISO	Ant1	5745	23.840	5733.120	5756.960	---	---
		5785	24.560	5772.800	5797.360	---	---
		5825	24.400	5812.640	5837.040	---	---
11N40SISO	Ant1	5755	44.720	5733.480	5778.200	---	---
		5795	45.360	5772.680	5818.040	---	---

Test Graphs





11N20SISO_Ant1_5745



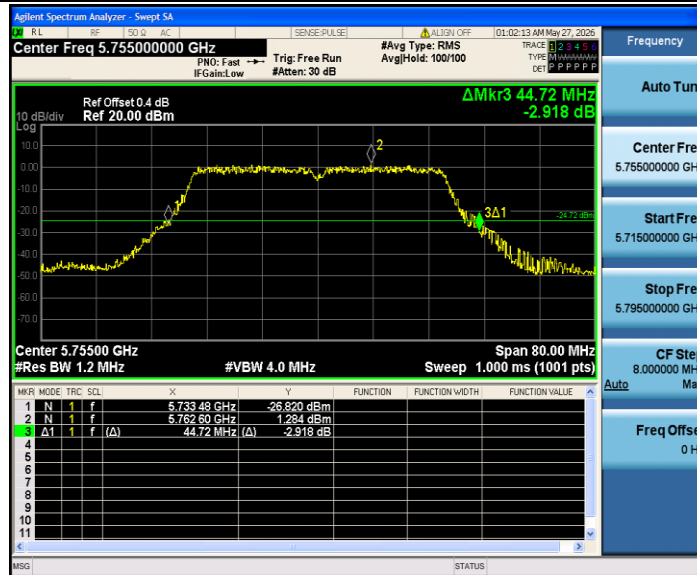
11N20SISO_Ant1_5785



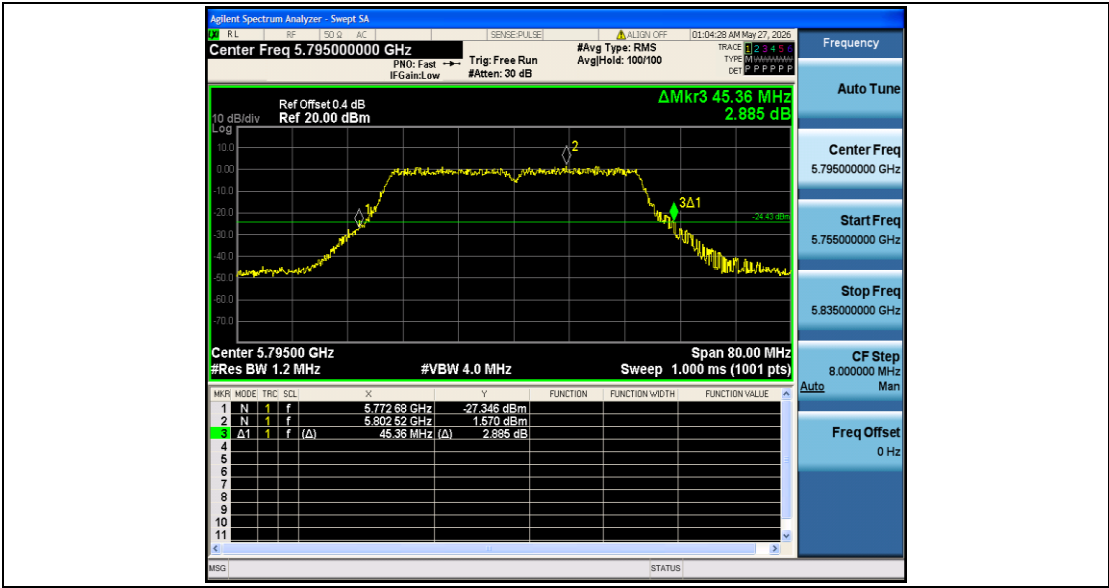
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



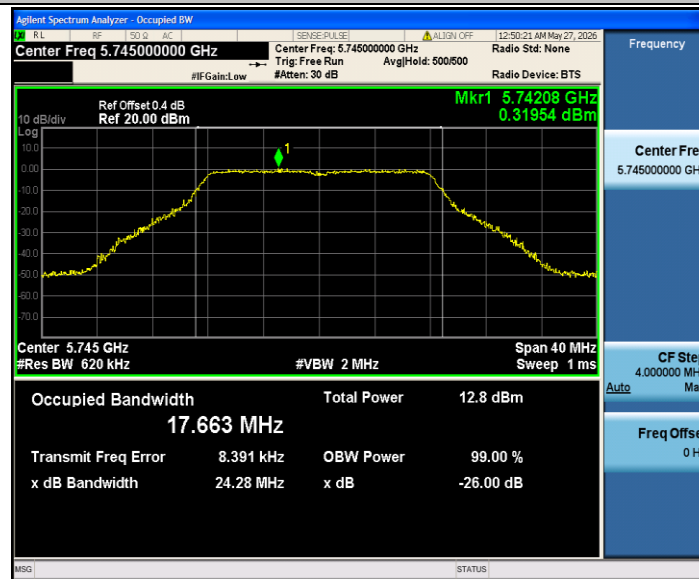
Appendix A2: Occupied channel bandwidth

Test Result

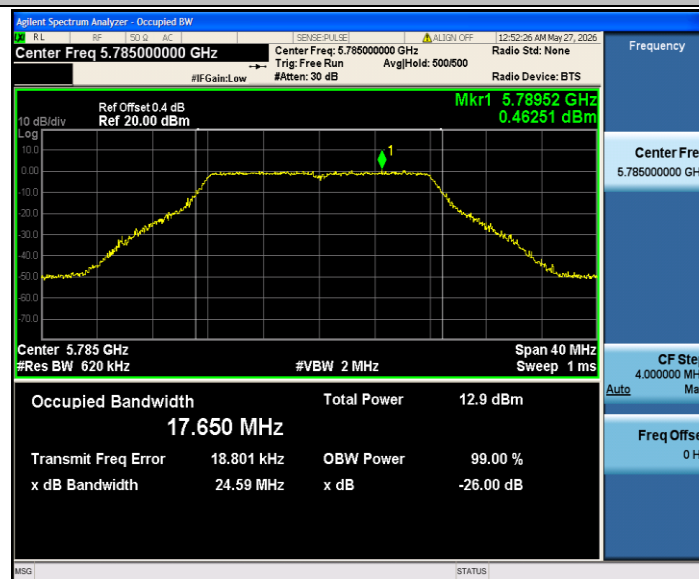
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	17.663	5736.1769	5753.8399	---	---
		5785	17.650	5776.1938	5793.8438	---	---
		5825	17.602	5816.2593	5833.8613	---	---
11N20SISO	Ant1	5745	18.675	5735.6349	5754.3099	---	---
		5785	18.702	5775.6764	5794.3784	---	---
		5825	18.657	5815.6824	5834.3394	---	---
11N40SISO	Ant1	5755	36.922	5736.6229	5773.5449	---	---
		5795	37.028	5776.5593	5813.5873	---	---

Test Graphs

11A_Ant1_5745



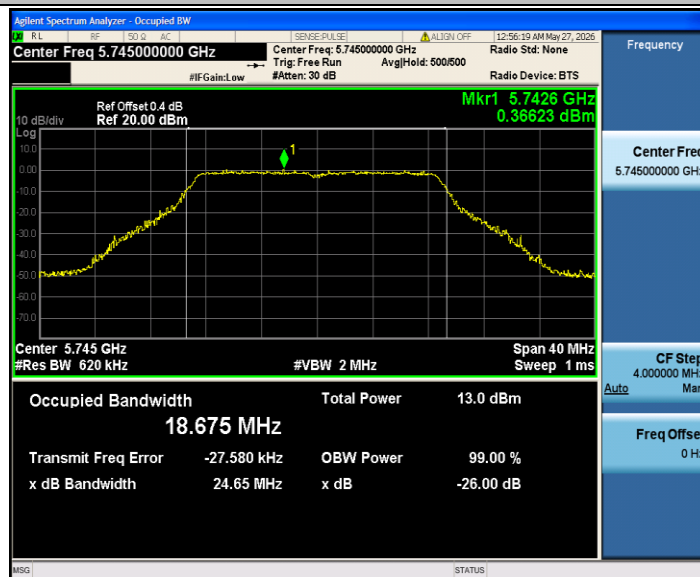
11A_Ant1_5785



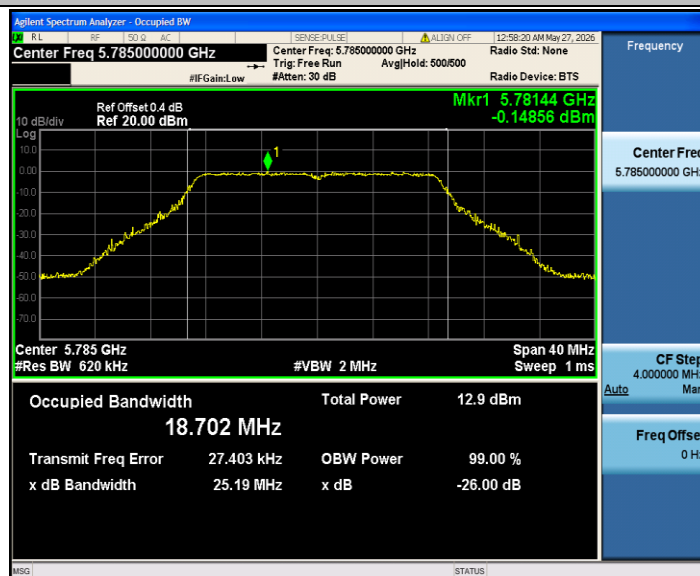
11A_Ant1_5825



11N20SISO_Ant1_5745



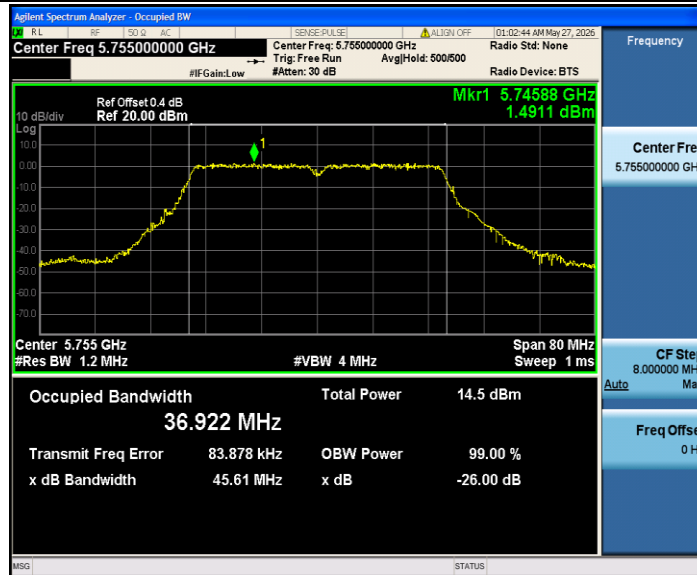
11N20SISO_Ant1_5785



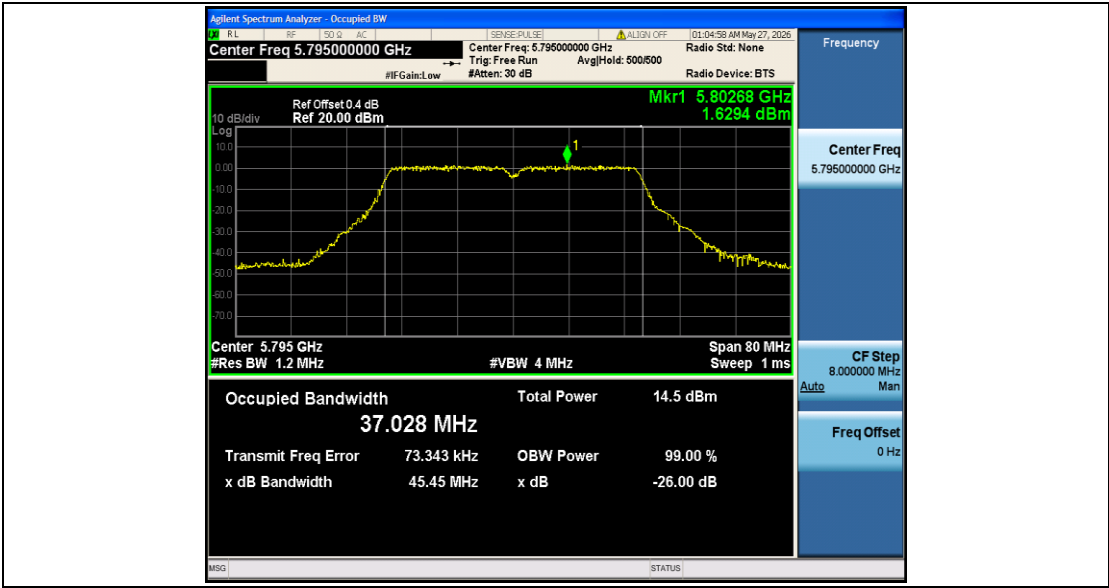
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



Appendix A3: Min emission bandwidth

Test Result B4

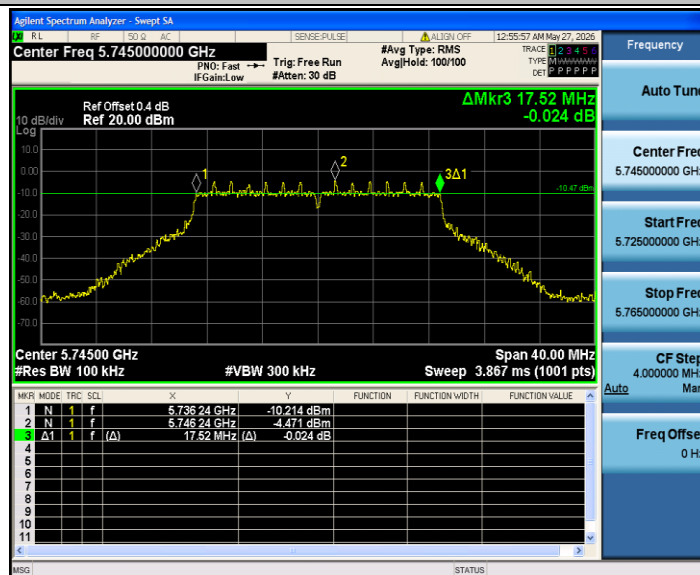
TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.280	5736.840	5753.120	0.5	PASS
		5785	16.320	5776.840	5793.160	0.5	PASS
		5825	16.320	5816.840	5833.160	0.5	PASS
11N20SISO	Ant1	5745	17.520	5736.240	5753.760	0.5	PASS
		5785	17.520	5776.240	5793.760	0.5	PASS
		5825	17.520	5816.240	5833.760	0.5	PASS
11N40SISO	Ant1	5755	36.320	5736.840	5773.160	0.5	PASS
		5795	36.240	5776.920	5813.160	0.5	PASS

Test Graphs B4





11N20SISO_Ant1_5745



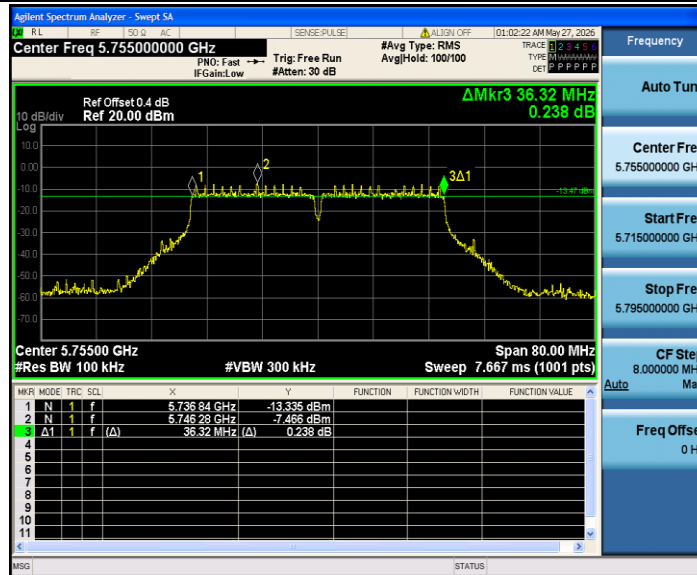
11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795

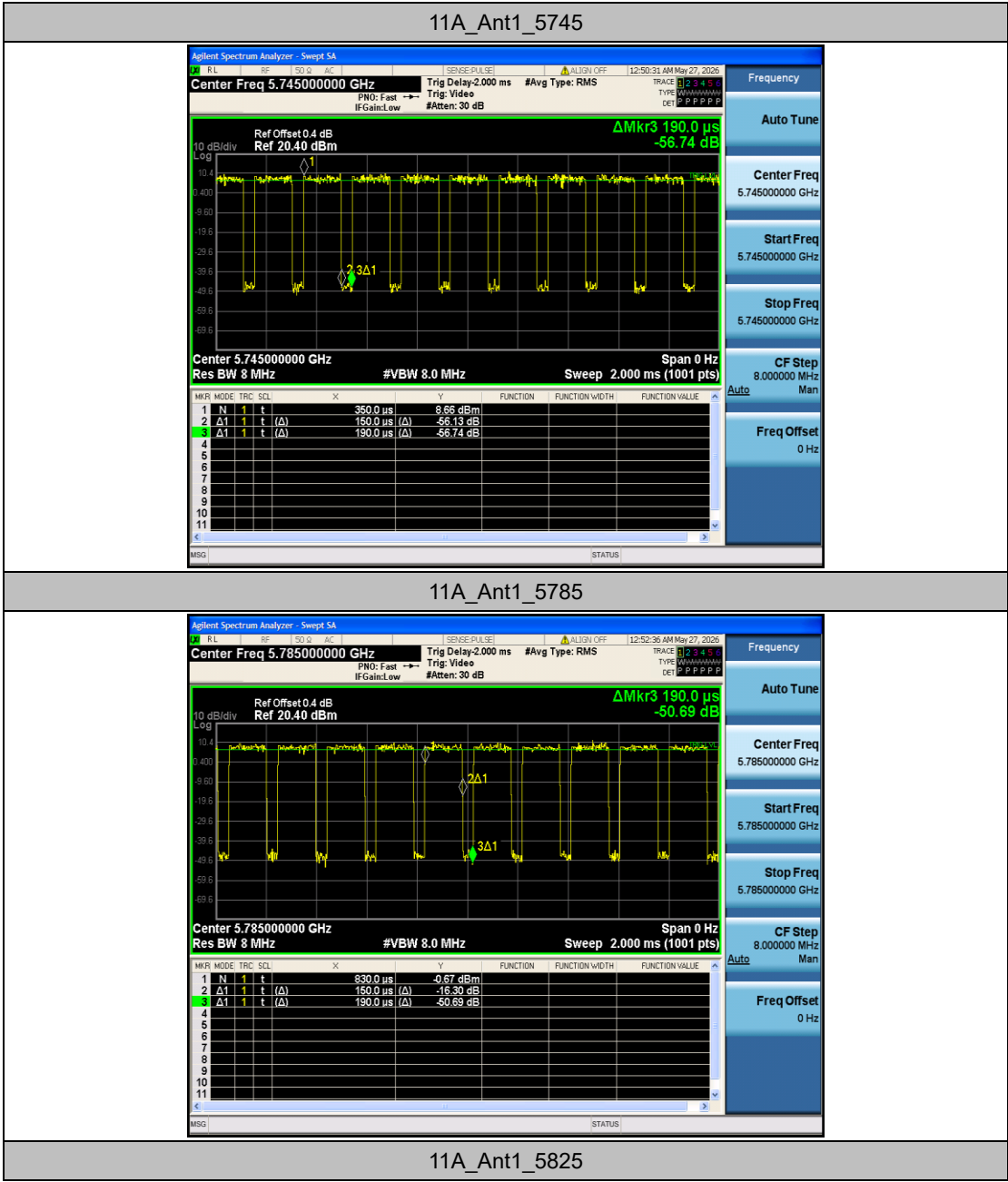


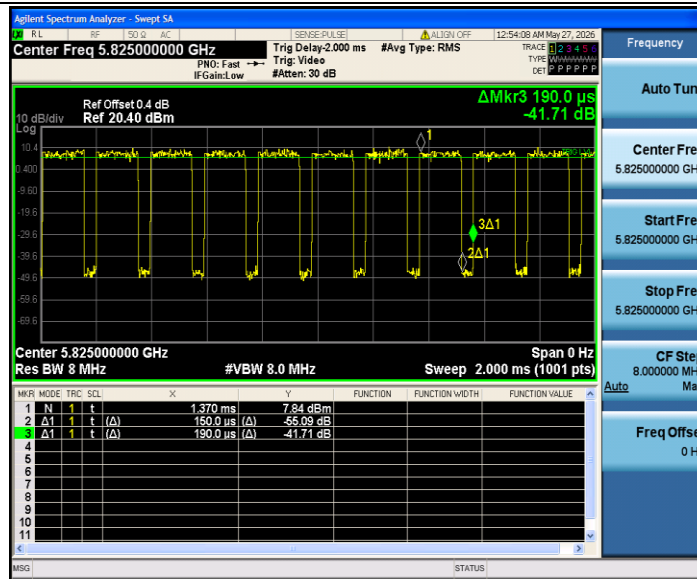
Appendix B: Duty Cycle

Test Result

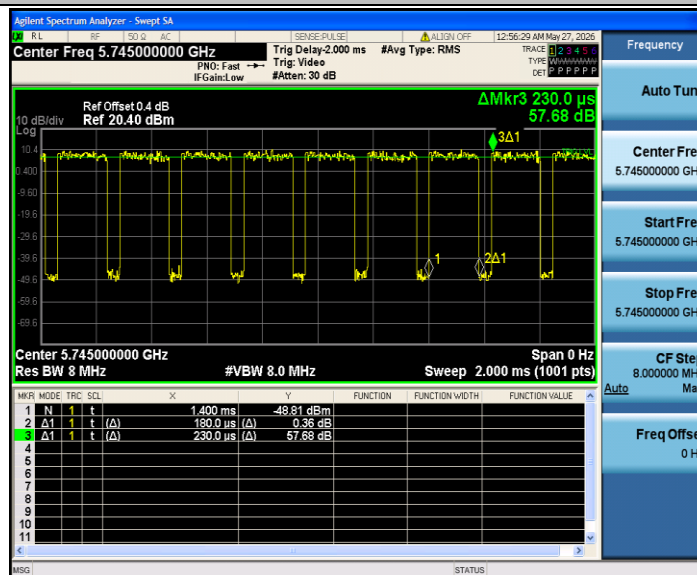
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factor [dB]	Limit	Verdict
11A	Ant1	5745	0.15	0.19	78.95	1.03	---	---
		5785	0.15	0.19	78.95	1.03	---	---
		5825	0.15	0.19	78.95	1.03	---	---
11N20SISO	Ant1	5745	0.18	0.23	78.26	1.06	---	---
		5785	0.18	0.23	78.26	1.06	---	---
		5825	0.18	0.23	78.26	1.06	---	---
11N40SISO	Ant1	5755	0.18	0.23	78.26	1.06	---	---
		5795	0.18	0.22	81.82	0.87	---	---

Test Graphs

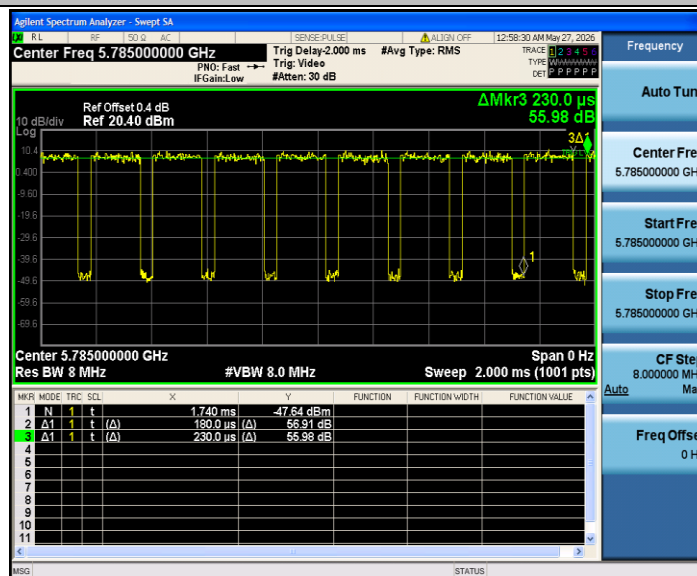




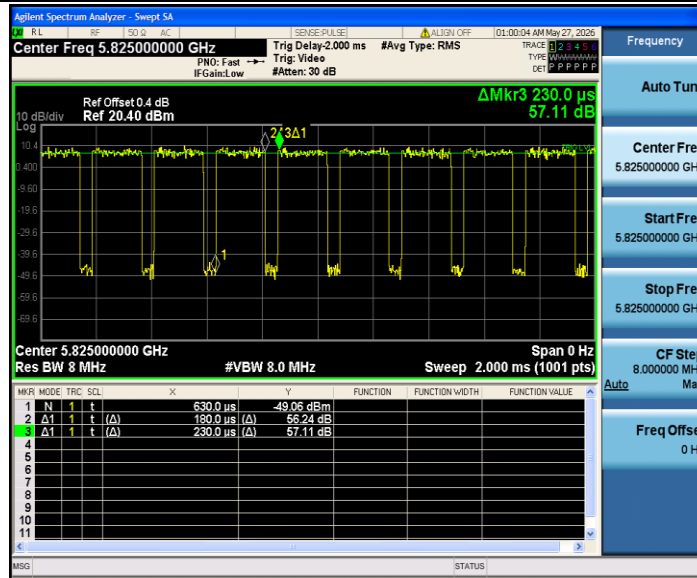
11N20SISO_Ant1_5745



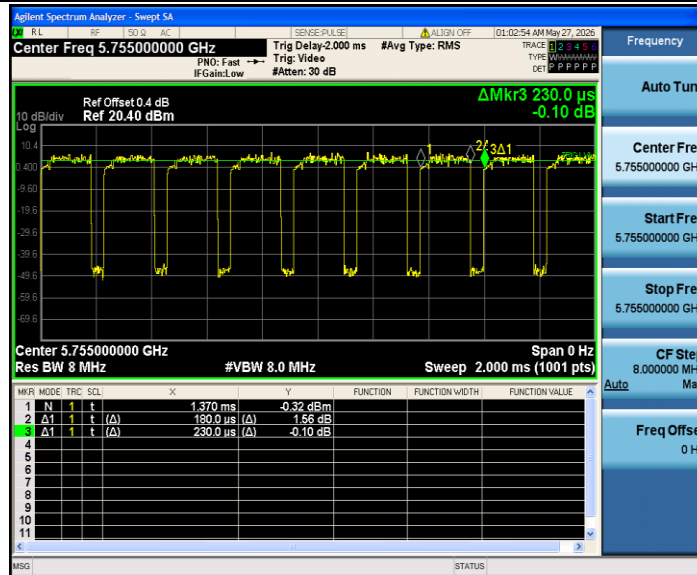
11N20SISO_Ant1_5785



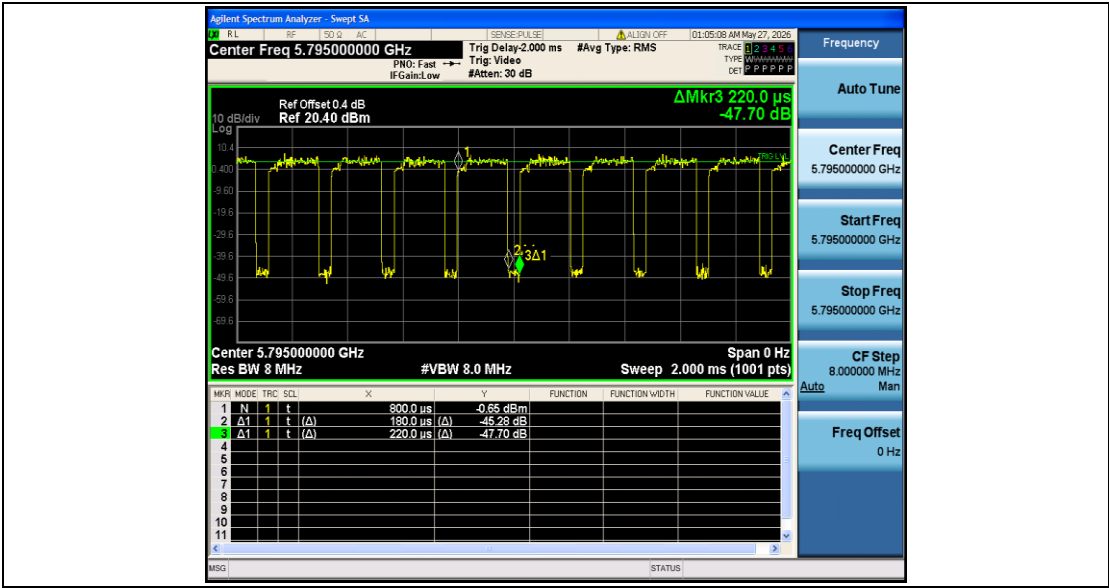
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



Appendix C: Maximum conducted output power

Test Result

Test Mode	Antenna	Freq(MHz)	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	4.90	78.95	1.03	5.93	≤30.00	PASS
		5785	4.97	78.95	1.03	6.00	≤30.00	PASS
		5825	4.68	78.95	1.03	5.71	≤30.00	PASS
11N20SIS O	Ant1	5745	5.15	78.26	1.06	6.21	≤30.00	PASS
		5785	5.09	78.26	1.06	6.15	≤30.00	PASS
		5825	4.88	78.26	1.06	5.94	≤30.00	PASS
11N40SIS O	Ant1	5755	5.26	78.26	1.06	6.32	≤30.00	PASS
		5795	5.31	81.82	0.87	6.18	≤30.00	PASS

Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	RawData [dBm/MHz]	DC Factor [dBm]	RBW Factor [dBm]	Result [dBm/MHz]	Limit [dBm/MHz]	Verdict
11A	Ant1	5745	-10.66	1.03	2.22	-7.41	≤30.00	PASS
		5785	-10.6	1.03	2.22	-7.35	≤30.00	PASS
		5825	-10.39	1.03	2.22	-7.14	≤30.00	PASS
11N20SISO	Ant1	5745	-10.65	1.06	2.22	-7.37	≤30.00	PASS
		5785	-10.95	1.06	2.22	-7.67	≤30.00	PASS
		5825	-11.06	1.06	2.22	-7.78	≤30.00	PASS
11N40SISO	Ant1	5755	-13.5	1.06	2.22	-10.22	≤30.00	PASS
		5795	-13.73	0.87	2.22	-10.64	≤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_5745



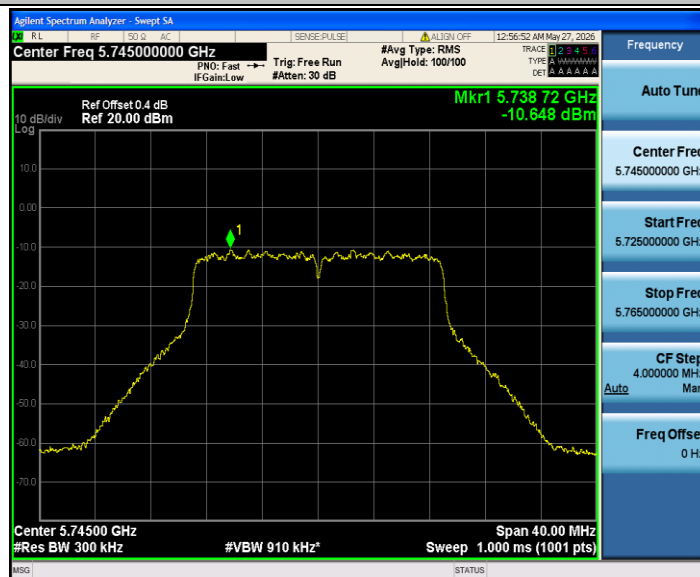
11A_Ant1_5785



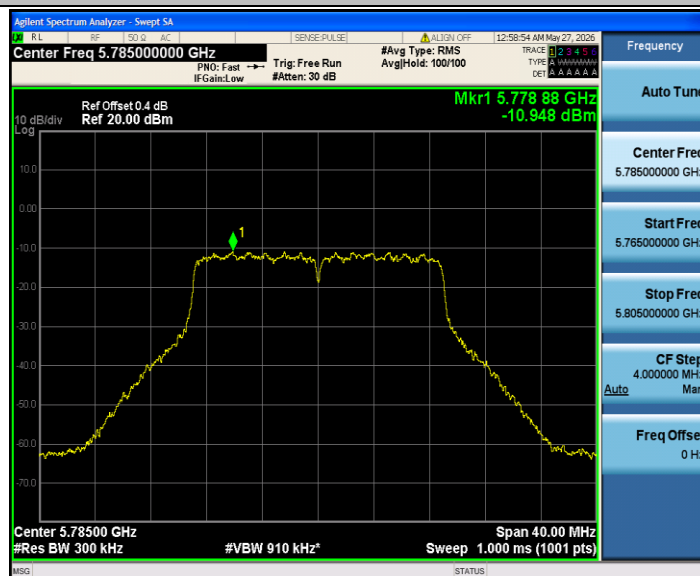
11A_Ant1_5825



11N20SISO_Ant1_5745



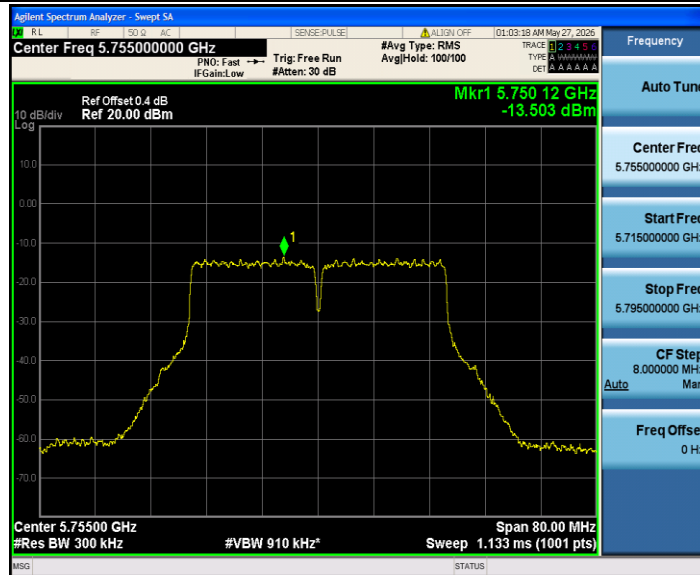
11N20SISO_Ant1_5785



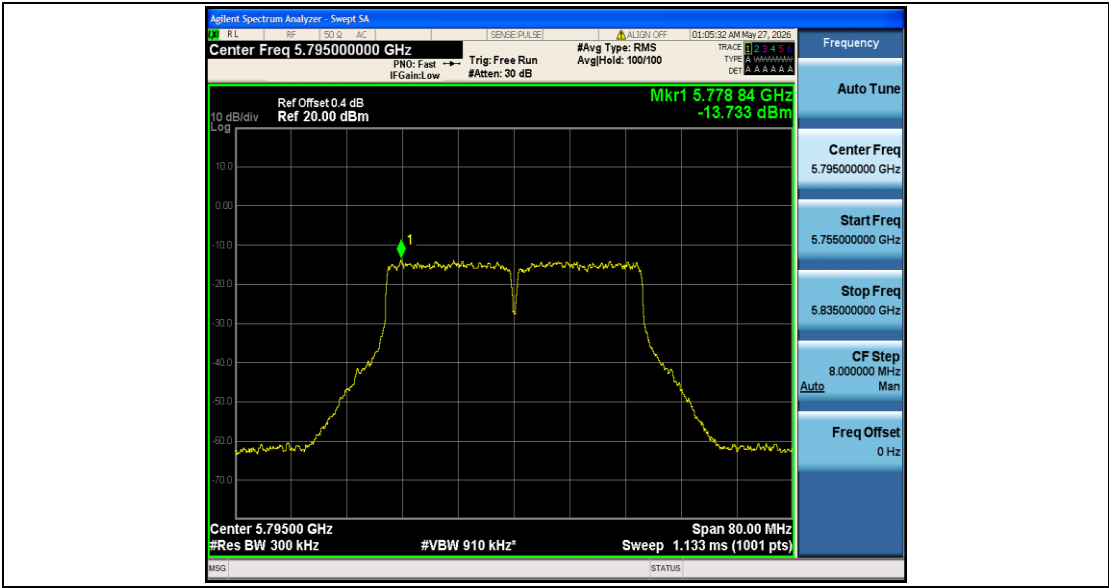
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795

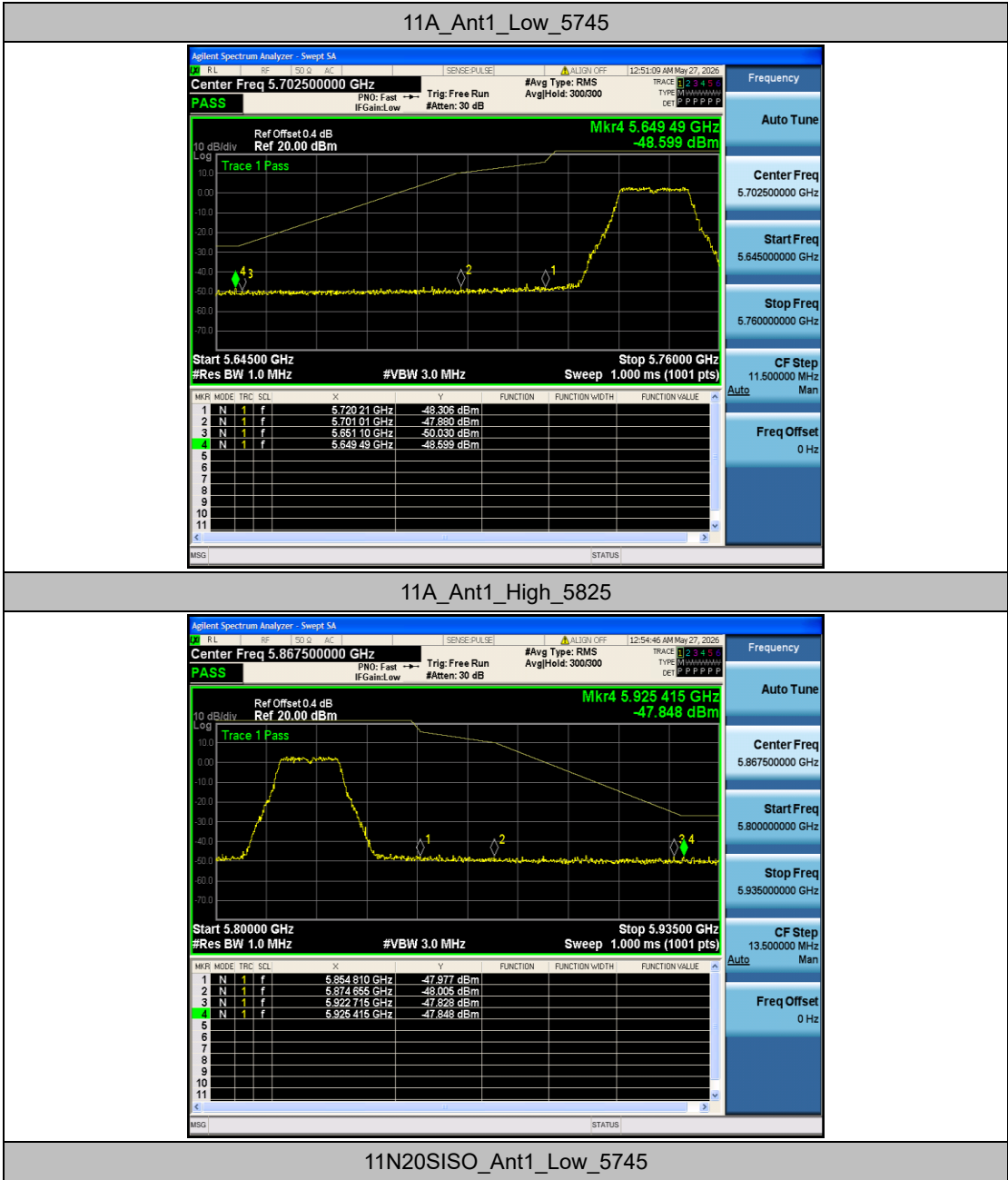


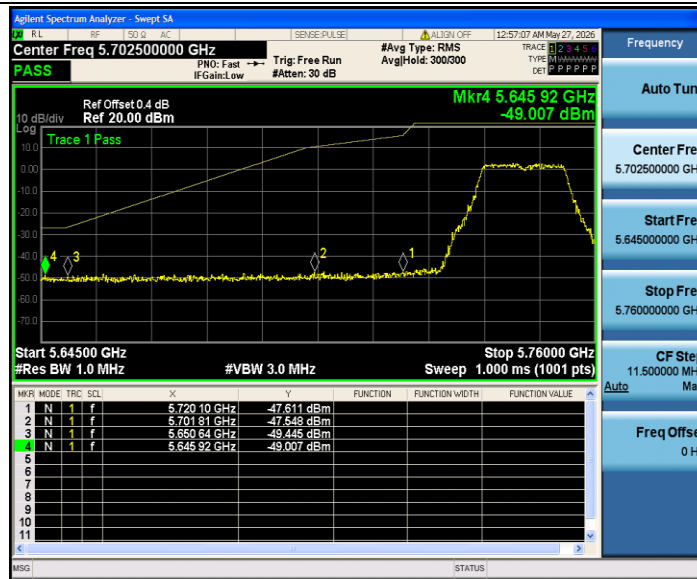
Appendix E: Band edge measurements

Test Result B4

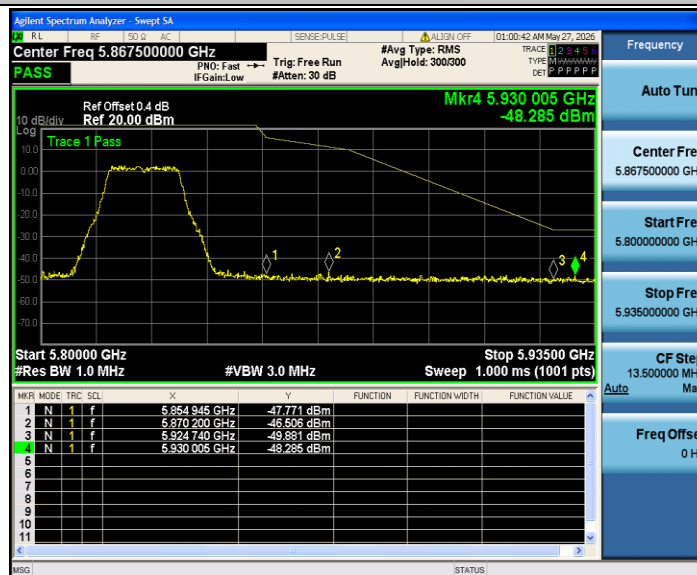
TestMode	Antenna	ChName	Freq(MHz)	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5645~5650	-48.6	≤-27	PASS
				5650~5700	-50.03	≤-26.19	PASS
				5700~5720	-47.88	≤10.28	PASS
				5720~5725	-48.31	≤16.08	PASS
		High	5825	5850~5855	-47.98	≤16.03	PASS
				5855~5875	-48.01	≤10.10	PASS
				5875~5925	-47.83	≤-25.31	PASS
				5925~5935	-47.85	≤-27	PASS
11N20SI SO	Ant1	Low	5745	5645~5650	-49.01	≤-27	PASS
				5650~5700	-49.45	≤-26.53	PASS
				5700~5720	-47.55	≤10.51	PASS
				5720~5725	-47.61	≤15.82	PASS
		High	5825	5850~5855	-47.77	≤15.73	PASS
				5855~5875	-46.51	≤11.34	PASS
				5875~5925	-49.88	≤-26.81	PASS
				5925~5935	-48.29	≤-27	PASS
11N40SI SO	Ant1	Low	5755	5645~5650	-48.95	≤-27	PASS
				5650~5700	-50.24	≤-26.90	PASS
				5700~5720	-47.35	≤10.14	PASS
				5720~5725	-45.39	≤16.66	PASS
		High	5795	5850~5855	-47.95	≤15.66	PASS
				5855~5875	-48.08	≤10.11	PASS
				5875~5925	-48.79	≤-26.22	PASS
				5925~5935	-47.96	≤-27	PASS

Test Graphs B4

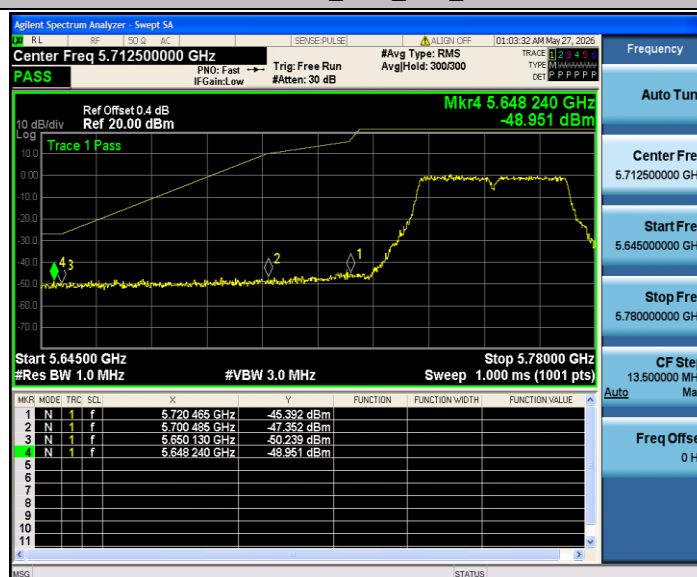




11N20ISO_Ant1_High_5825



11N40ISO_Ant1_Low_5755



11N40SISO_Ant1_High_5795

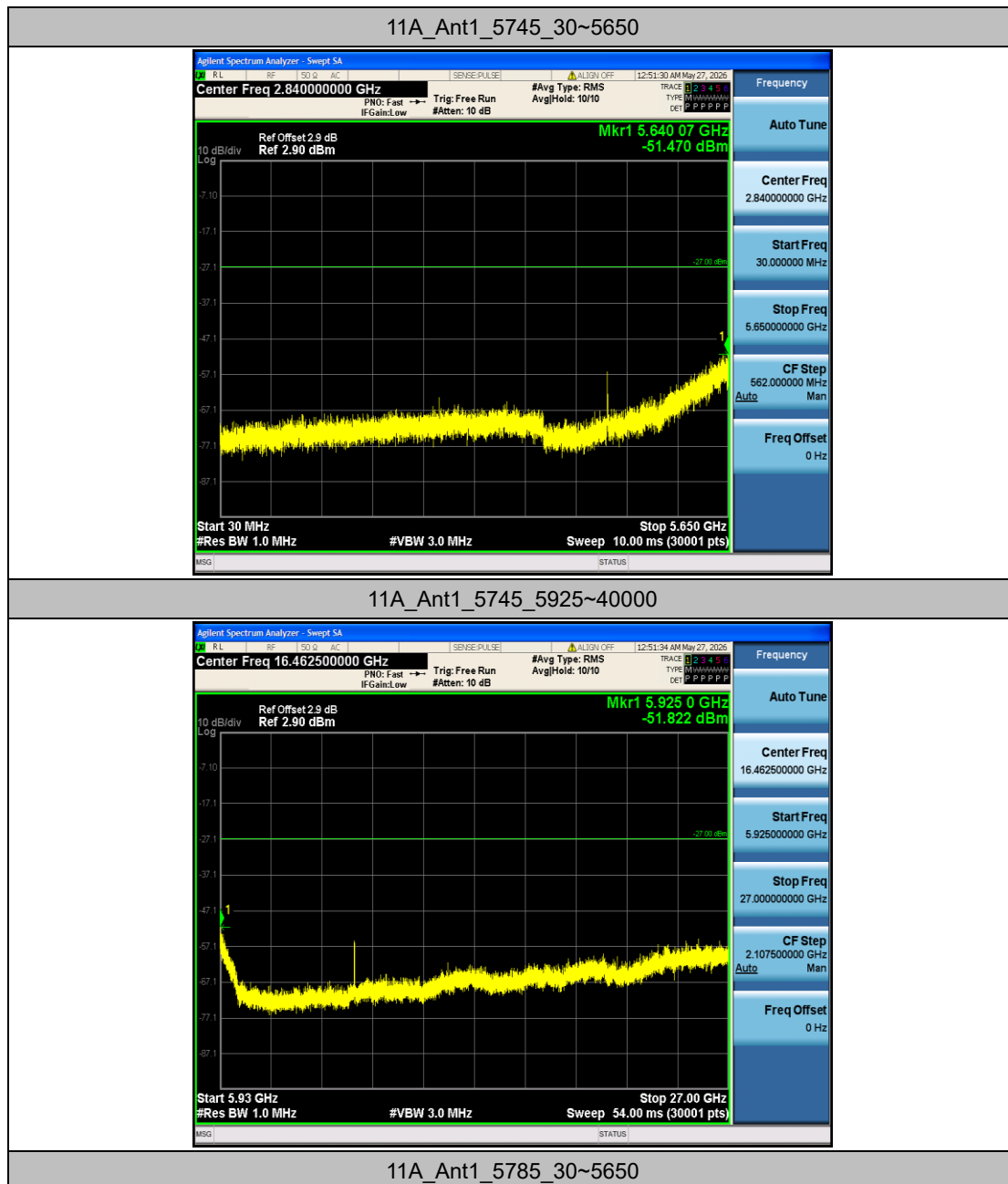


Appendix F: Conducted Spurious Emission

Test Result

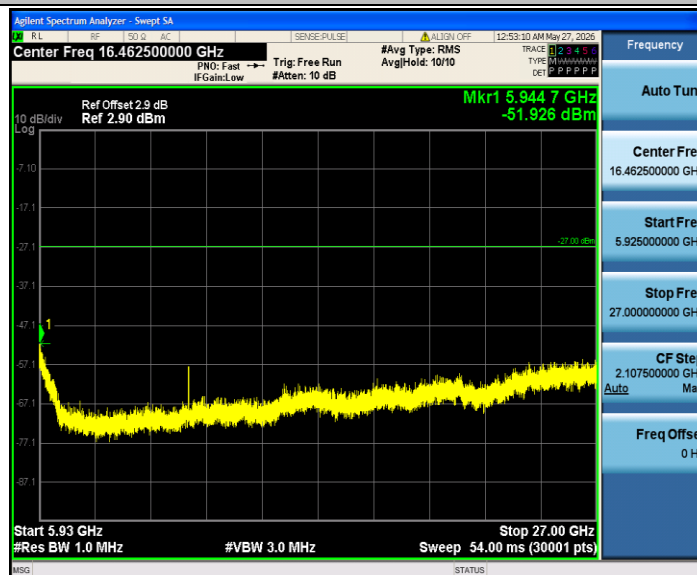
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	30~5650	5640.07	-51.47	≤-27	PASS
			5925~40000	5925	-51.82	≤-27	PASS
		5785	30~5650	5626.21	-52	≤-27	PASS
			5925~40000	5944.67	-51.93	≤-27	PASS
		5825	30~5650	5641.94	-52.15	≤-27	PASS
			5925~40000	5950.99	-51.12	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	5629.77	-51.47	≤-27	PASS
			5925~40000	5948.89	-52.49	≤-27	PASS
		5785	30~5650	5564.2	-51.41	≤-27	PASS
			5925~40000	5938.35	-51.98	≤-27	PASS
		5825	30~5650	5523.74	-53.24	≤-27	PASS
			5925~40000	5936.24	-50.61	≤-27	PASS
11N40SISO	Ant1	5755	30~5650	5649.06	-51.48	≤-27	PASS
			5925~40000	5932.73	-52.5	≤-27	PASS
		5795	30~5650	5621.53	-51.85	≤-27	PASS
			5925~40000	5965.75	-51.19	≤-27	PASS

Test Graphs





11A_Ant1_5785_5925~40000



11A_Ant1_5825_30~5650

