

RF Test Data for RLAN(5. 8G) (Conducted Measurement)

Product Name: bird feeder camera

Trade Mark: /

Test Model: V8-WNQ-02

FCC ID: 2AY58-V8-WNQ-02

Environmental Conditions

Temperature:	23.5℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Max Zhang
NOTE	N/A

Appendix A2: Occupied channel bandwidth

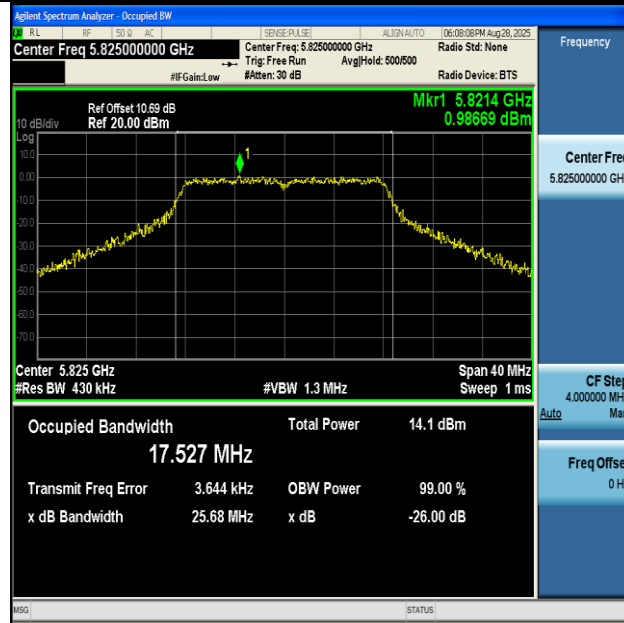
Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant1	5745	17.567	5736.1334	5753.7004	---	---
11A	Ant1	5785	17.596	5776.0800	5793.6760	---	---
11A	Ant1	5825	17.527	5816.2401	5833.7671	---	---
11N20SISO	Ant1	5745	18.922	5735.4835	5754.4055	---	---
11N20SISO	Ant1	5785	18.759	5775.5404	5794.2994	---	---
11N20SISO	Ant1	5825	18.754	5815.6587	5834.4127	---	---
11N40SISO	Ant1	5755	37.404	5736.3614	5773.7654	---	---
11N40SISO	Ant1	5795	37.519	5776.2455	5813.7645	---	---
11AC20SISO	Ant1	5745	18.794	5735.5477	5754.3417	---	---
11AC20SISO	Ant1	5785	18.745	5775.5930	5794.3380	---	---
11AC20SISO	Ant1	5825	18.758	5815.6727	5834.4307	---	---
11AC40SISO	Ant1	5755	37.542	5736.2952	5773.8372	---	---
11AC40SISO	Ant1	5795	37.620	5776.2120	5813.8320	---	---
11AX20SISO	Ant1	5745	19.430	5735.2622	5754.6922	---	---
11AX20SISO	Ant1	5785	19.369	5775.2643	5794.6333	---	---
11AX20SISO	Ant1	5825	19.351	5815.3592	5834.7102	---	---
11AX40SISO	Ant1	5755	38.436	5735.8339	5774.2699	---	---
11AX40SISO	Ant1	5795	38.501	5775.7655	5814.2665	---	---

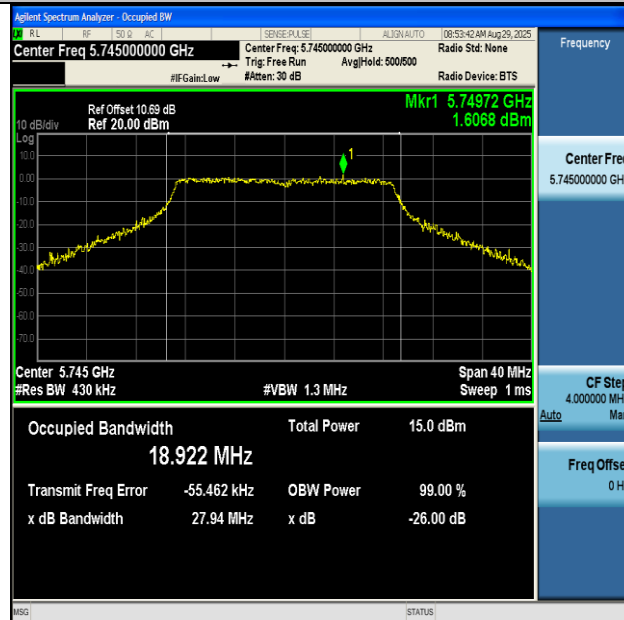
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs

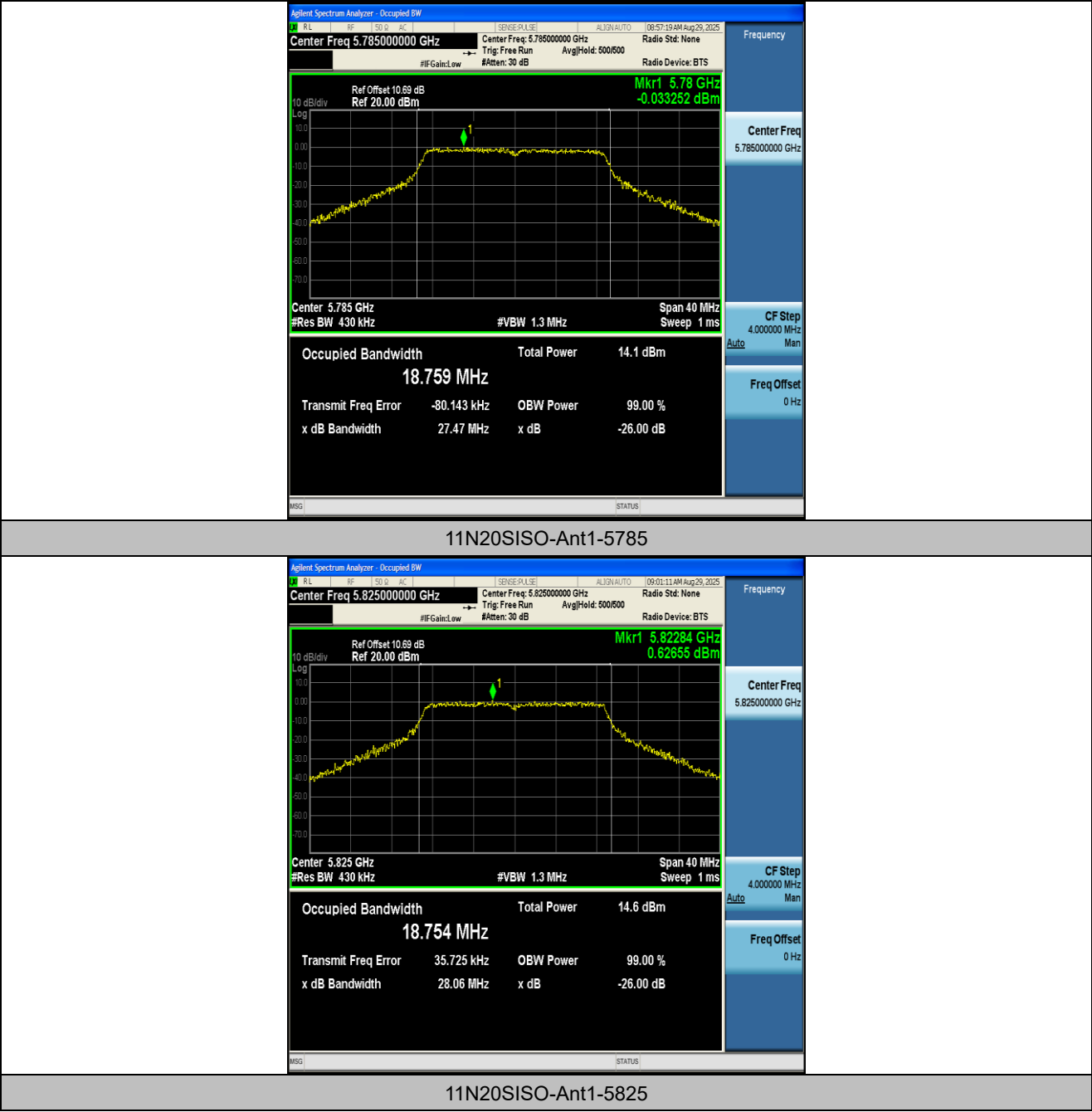


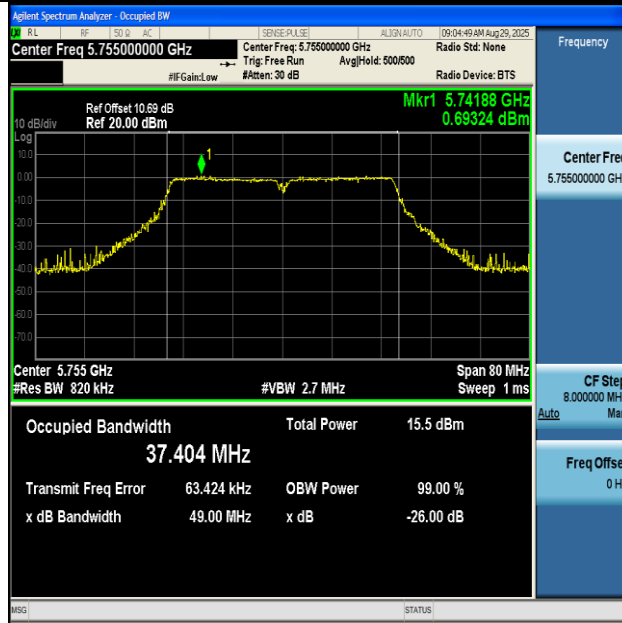


11A-Ant1-5825

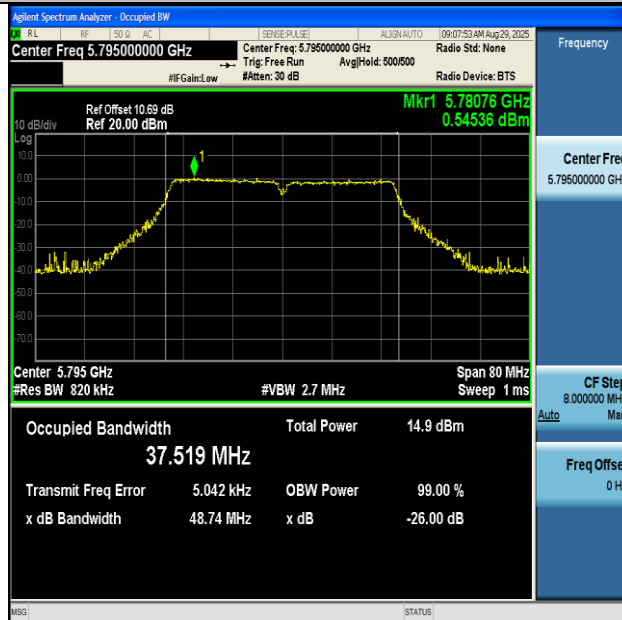


11N20SISO-Ant1-5745

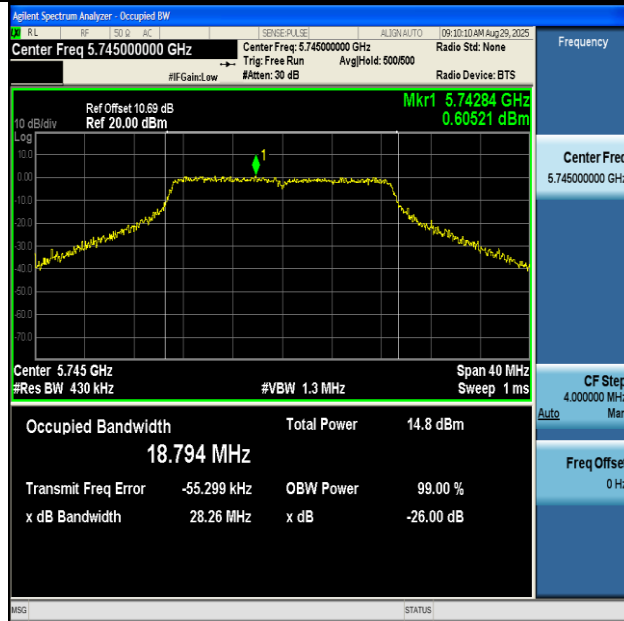




11N40SISO-Ant1-5755



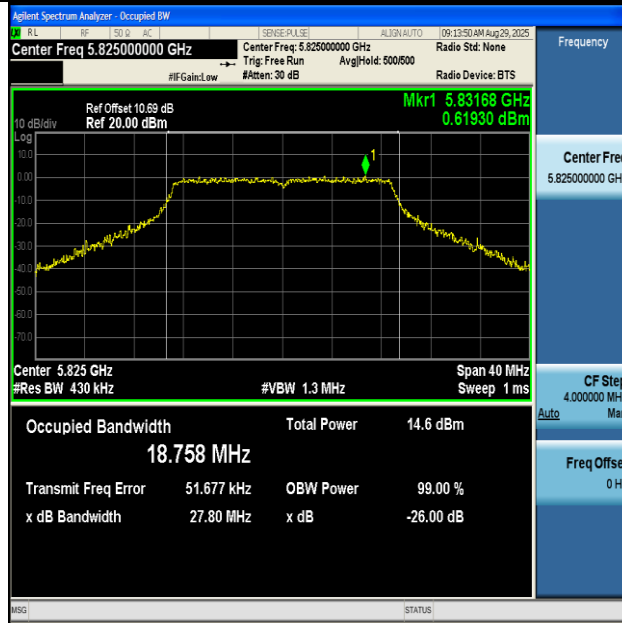
11N40SISO-Ant1-5795



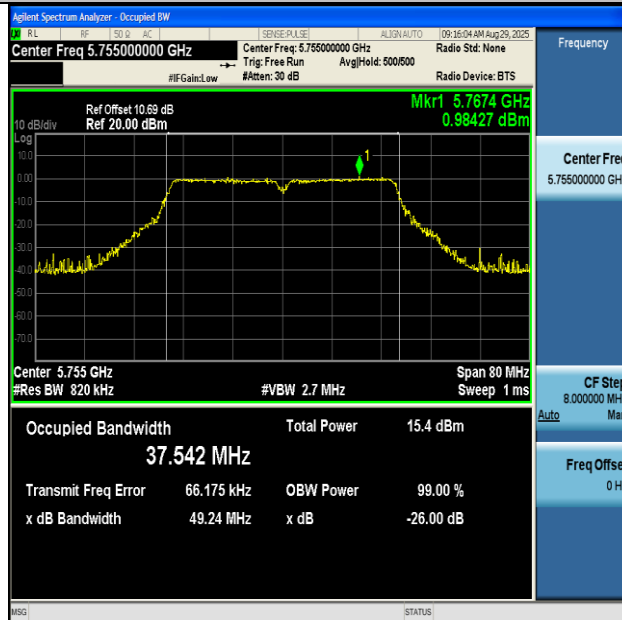
11AC20SISO-Ant1-5745



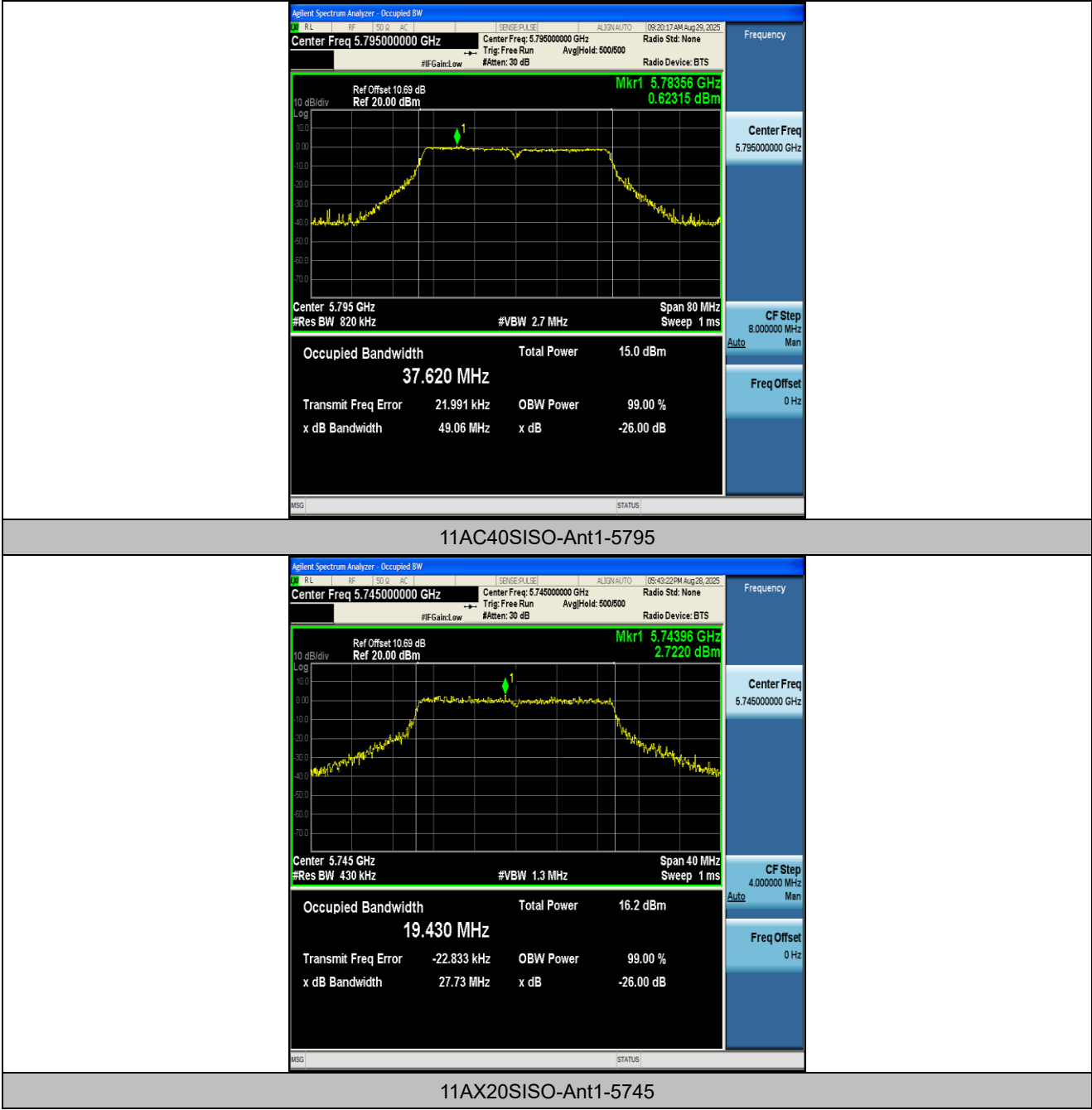
11AC20SISO-Ant1-5785

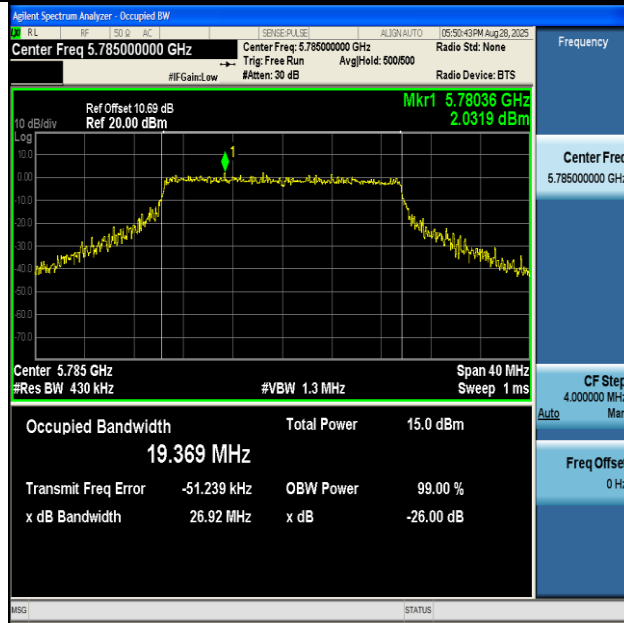


11AC20SISO-Ant1-5825

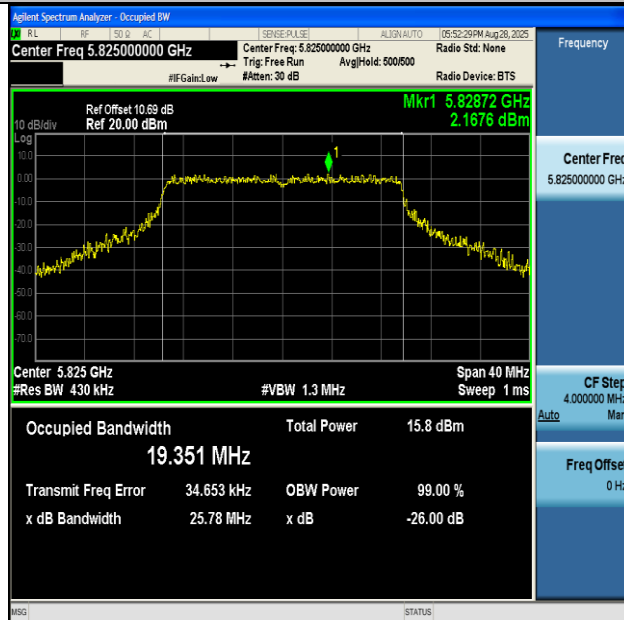


11AC40SISO-Ant1-5755

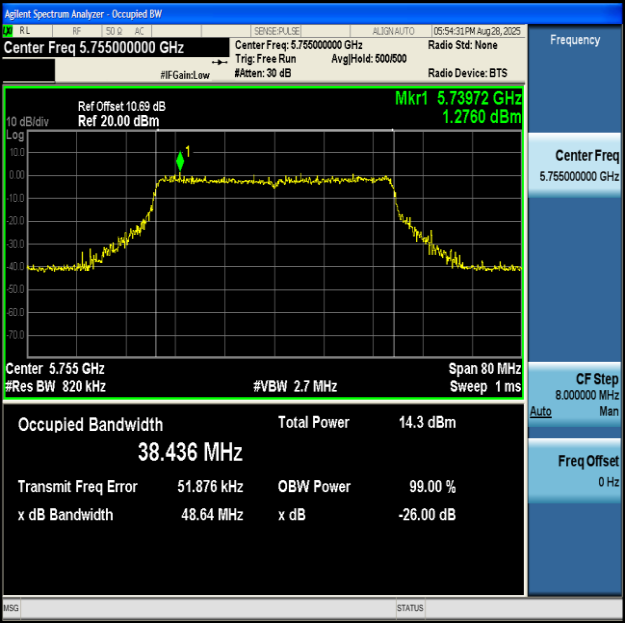




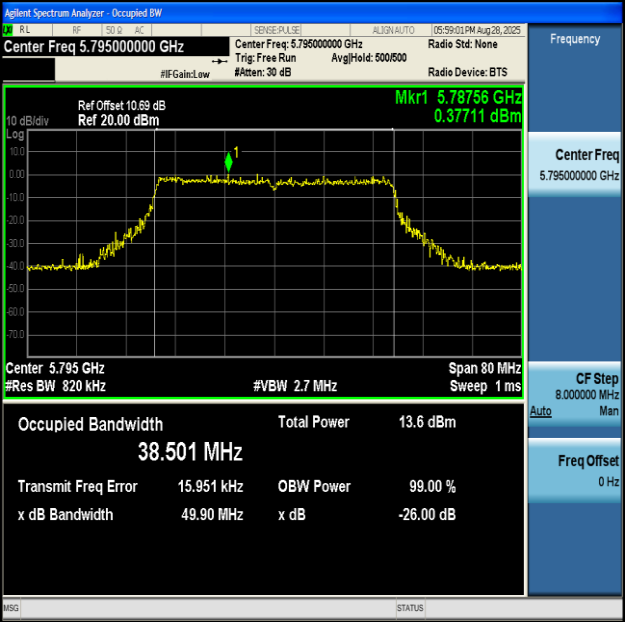
11AX20SISO-Ant1-5785



11AX20SISO-Ant1-5825



11AX40SISO-Ant1-5755



11AX40SISO-Ant1-5795

Appendix A: Min emission bandwidth

Test Result

Test Mode	Antenna	Frequency [MHz]	6db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant1	5745	16.400	5736.800	5753.200	0.5	PASS
11A	Ant1	5785	16.320	5776.840	5793.160	0.5	PASS
11A	Ant1	5825	16.320	5816.840	5833.160	0.5	PASS
11N20SISO	Ant1	5745	17.560	5736.200	5753.760	0.5	PASS
11N20SISO	Ant1	5785	17.720	5776.120	5793.840	0.5	PASS
11N20SISO	Ant1	5825	17.640	5816.200	5833.840	0.5	PASS
11N40SISO	Ant1	5755	36.320	5736.840	5773.160	0.5	PASS
11N40SISO	Ant1	5795	36.320	5776.840	5813.160	0.5	PASS
11AC20SISO	Ant1	5745	17.800	5736.080	5753.880	0.5	PASS
11AC20SISO	Ant1	5785	17.560	5776.200	5793.760	0.5	PASS
11AC20SISO	Ant1	5825	17.600	5816.200	5833.800	0.5	PASS
11AC40SISO	Ant1	5755	36.480	5736.760	5773.240	0.5	PASS
11AC40SISO	Ant1	5795	36.320	5776.840	5813.160	0.5	PASS
11AX20SISO	Ant1	5745	18.920	5735.520	5754.440	0.5	PASS
11AX20SISO	Ant1	5785	19.080	5775.480	5794.560	0.5	PASS
11AX20SISO	Ant1	5825	19.080	5815.440	5834.520	0.5	PASS
11AX40SISO	Ant1	5755	38.080	5735.960	5774.040	0.5	PASS
11AX40SISO	Ant1	5795	38.000	5775.960	5813.960	0.5	PASS

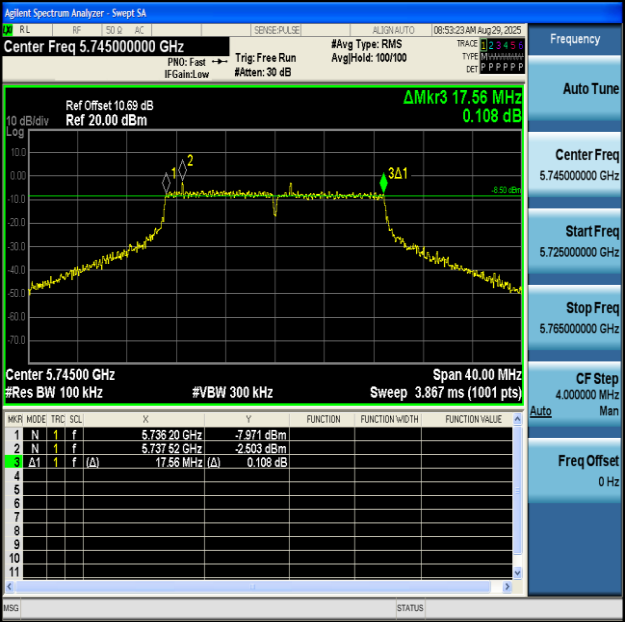
Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs





11A-Ant1-5825-PASS



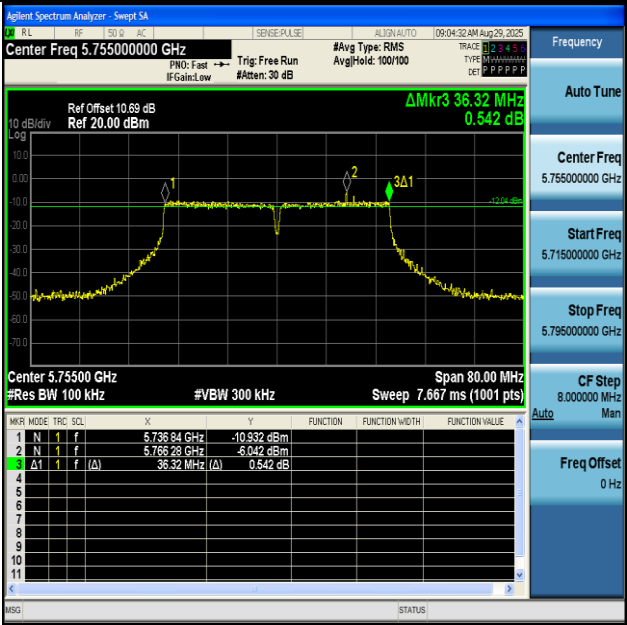
11N20SISO-Ant1-5745-PASS



11N20SISO-Ant1-5785-PASS



11N20SISO-Ant1-5825-PASS



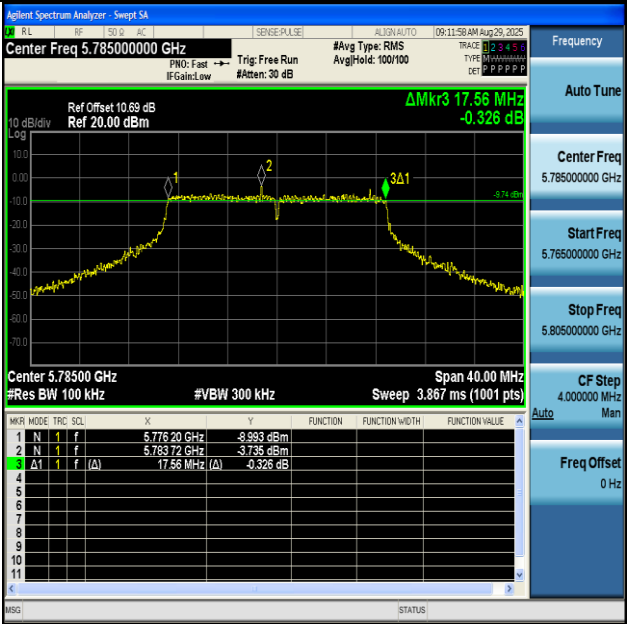
11N40SISO-Ant1-5755-PASS



11N40SISO-Ant1-5795-PASS



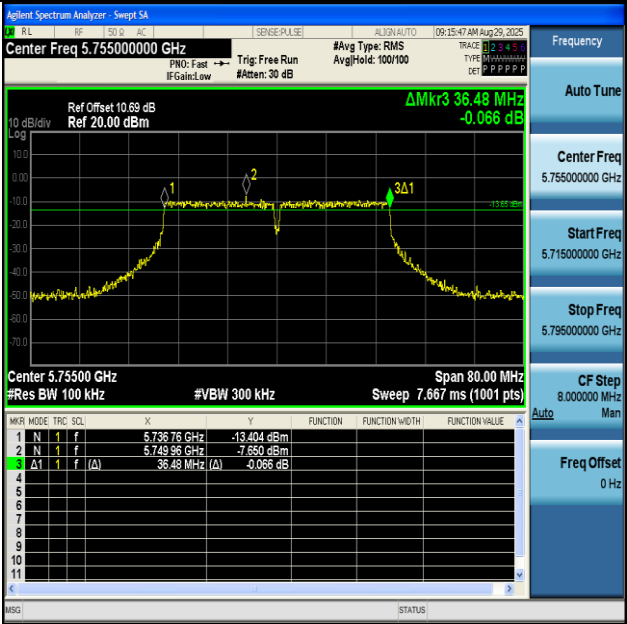
11AC20SISO-Ant1-5745-PASS



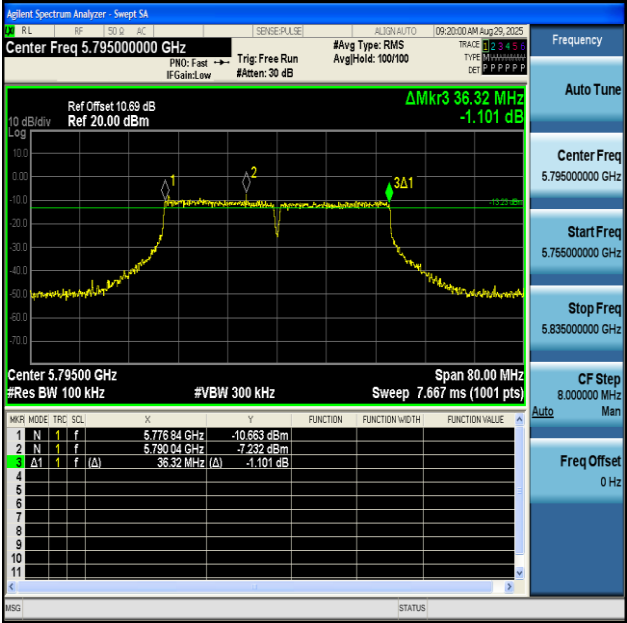
11AC20SISO-Ant1-5785-PASS



11AC20SISO-Ant1-5825-PASS



11AC40SISO-Ant1-5755-PASS



11AC40SISO-Ant1-5795-PASS



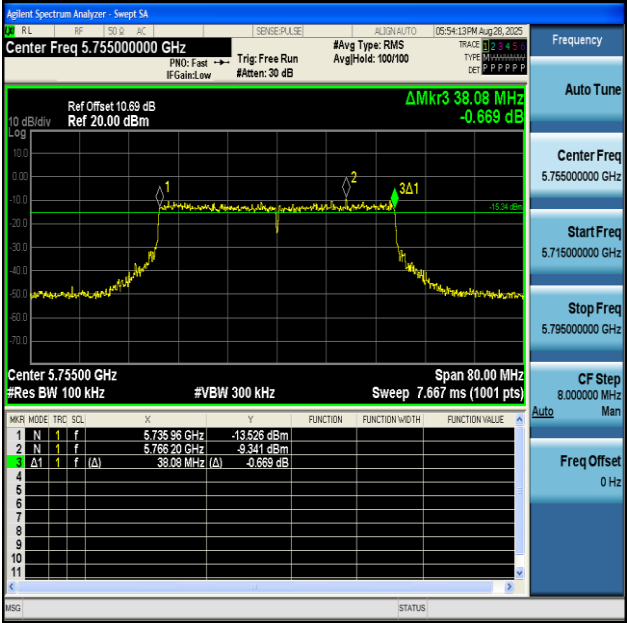
11AX20SISO-Ant1-5745-PASS



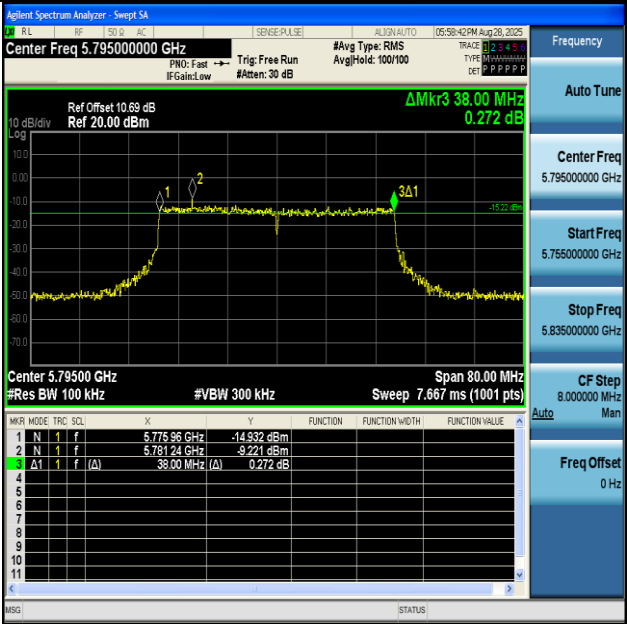
11AX20SISO-Ant1-5785-PASS



11AX20SISO-Ant1-5825-PASS



11AX40SISO-Ant1-5755-PASS



11AX40SISO-Ant1-5795-PASS

Appendix B: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency [MHz]	Conducted Power [dBm]	Conducted Limit [dBm]	Verdict
11A	Ant1	5745	8.20	≤30.00	PASS
11A	Ant1	5785	8.81	≤30.00	PASS
11A	Ant1	5825	7.74	≤30.00	PASS
11N20SISO	Ant1	5745	8.46	≤30.00	PASS
11N20SISO	Ant1	5785	8.11	≤30.00	PASS
11N20SISO	Ant1	5825	8.53	≤30.00	PASS
11N40SISO	Ant1	5755	8.43	≤30.00	PASS
11N40SISO	Ant1	5795	8.03	≤30.00	PASS
11AC20SISO	Ant1	5745	8.27	≤30.00	PASS
11AC20SISO	Ant1	5785	8.17	≤30.00	PASS
11AC20SISO	Ant1	5825	7.96	≤30.00	PASS
11AC40SISO	Ant1	5755	8.42	≤30.00	PASS
11AC40SISO	Ant1	5795	7.91	≤30.00	PASS
11AX20SISO	Ant1	5745	8.33	≤30.00	PASS
11AX20SISO	Ant1	5785	8.23	≤30.00	PASS
11AX20SISO	Ant1	5825	8.65	≤30.00	PASS
11AX40SISO	Ant1	5755	6.41	≤30.00	PASS
11AX40SISO	Ant1	5795	5.44	≤30.00	PASS

Note: offset(dB) = cable loss(dB) + attenuator factor(dB) + Duty Cycle Factor(dB)

Appendix C: Maximum power spectral density

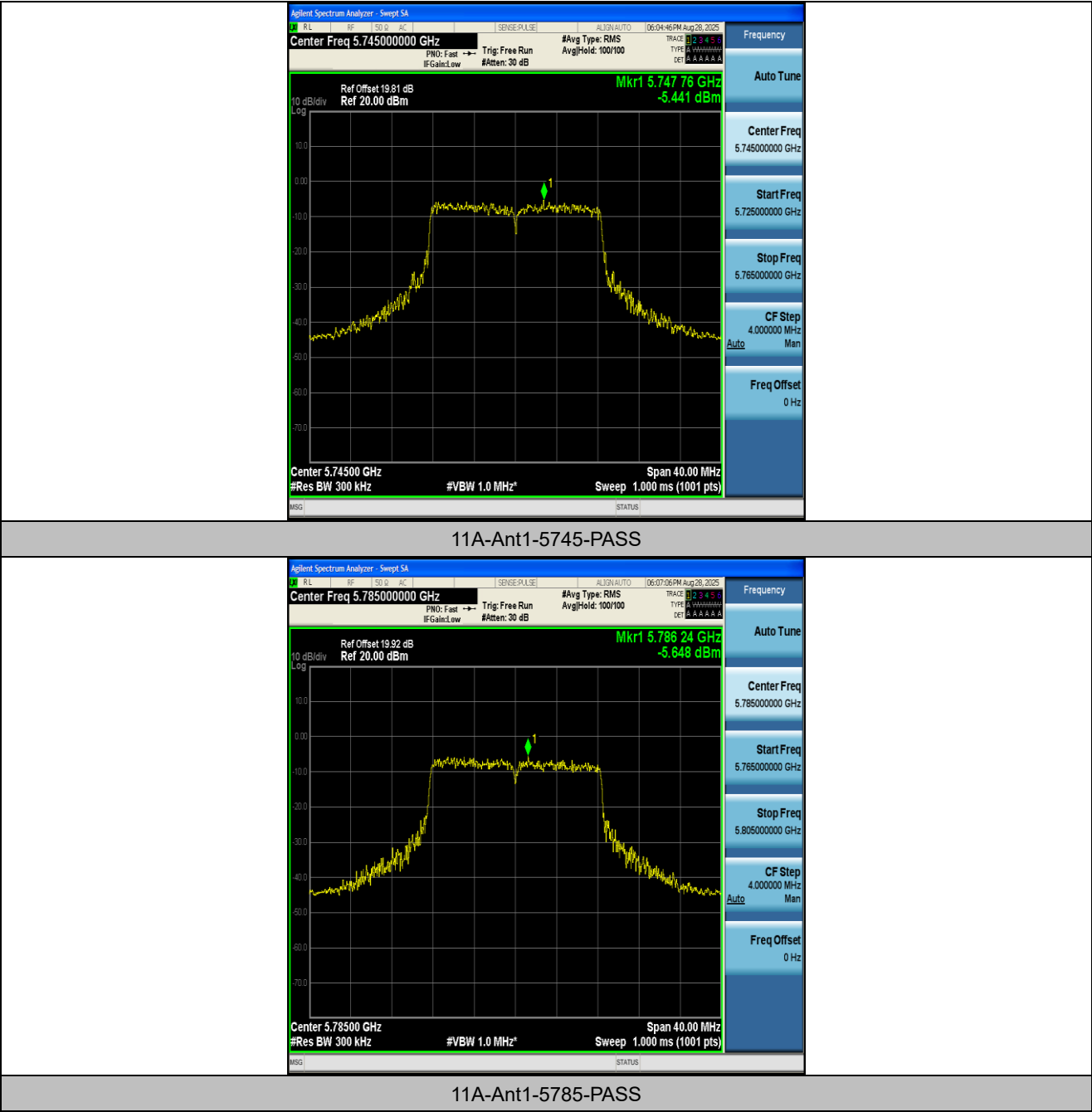
Test Result

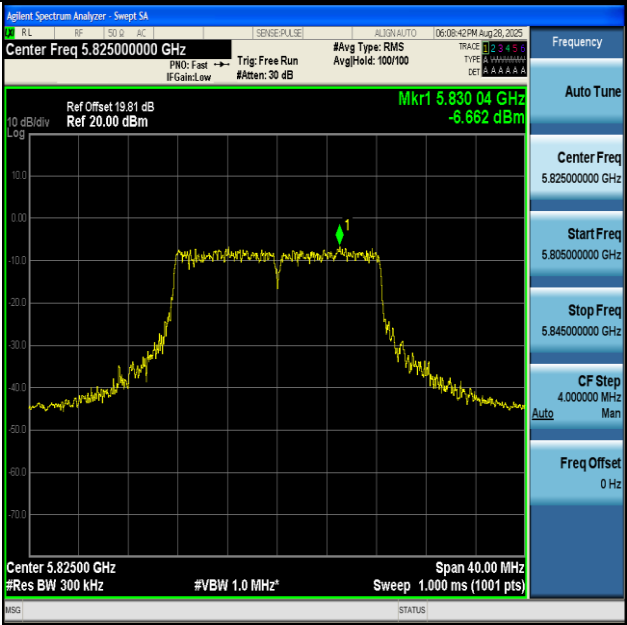
Frequency [MHz]	Test Mode	Antenna	Result [dBm/300KHz]	RBW Factor [dB]	Result [dBm/500KHz]	Limit [dBm/500KHz]	Verdict
5745	11A	Ant1	-5.44	2.22	-3.22	≤30.00	PASS
5785	11A	Ant1	-5.65	2.22	-3.43	≤30.00	PASS
5825	11A	Ant1	-6.66	2.22	-4.44	≤30.00	PASS
5745	11N20SISO	Ant1	-7.35	2.22	-5.13	≤30.00	PASS
5785	11N20SISO	Ant1	-8.33	2.22	-6.11	≤30.00	PASS
5825	11N20SISO	Ant1	-7.54	2.22	-5.32	≤30.00	PASS
5755	11N40SISO	Ant1	-10.87	2.22	-8.65	≤30.00	PASS
5795	11N40SISO	Ant1	-10.78	2.22	-8.56	≤30.00	PASS
5745	11AC20SISO	Ant1	-7.92	2.22	-5.70	≤30.00	PASS
5785	11AC20SISO	Ant1	-8.06	2.22	-5.84	≤30.00	PASS
5825	11AC20SISO	Ant1	-8.56	2.22	-6.34	≤30.00	PASS
5755	11AC40SISO	Ant1	-10.79	2.22	-8.57	≤30.00	PASS
5795	11AC40SISO	Ant1	-11.38	2.22	-9.16	≤30.00	PASS
5745	11AX20SISO	Ant1	-5.68	2.22	-3.46	≤30.00	PASS
5785	11AX20SISO	Ant1	-5.22	2.22	-3.00	≤30.00	PASS
5825	11AX20SISO	Ant1	-5.53	2.22	-3.31	≤30.00	PASS
5755	11AX40SISO	Ant1	-10.06	2.22	-7.84	≤30.00	PASS
5795	11AX40SISO	Ant1	-11.44	2.22	-9.22	≤30.00	PASS

Note: offset(dB) = cable loss(dB) + attenuator factor(dB) + Duty Cycle Factor(dB)

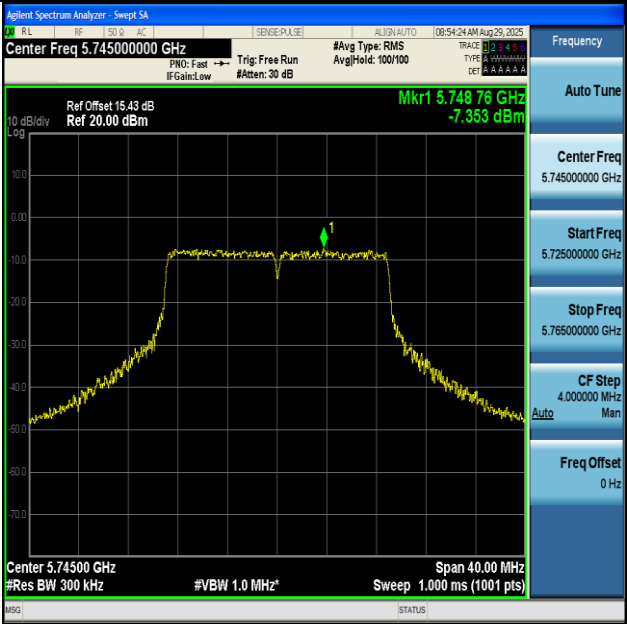
Result[dBm/500KHz] = Result[dBm/300KHz] + RB Factor(dB)

Test Graphs

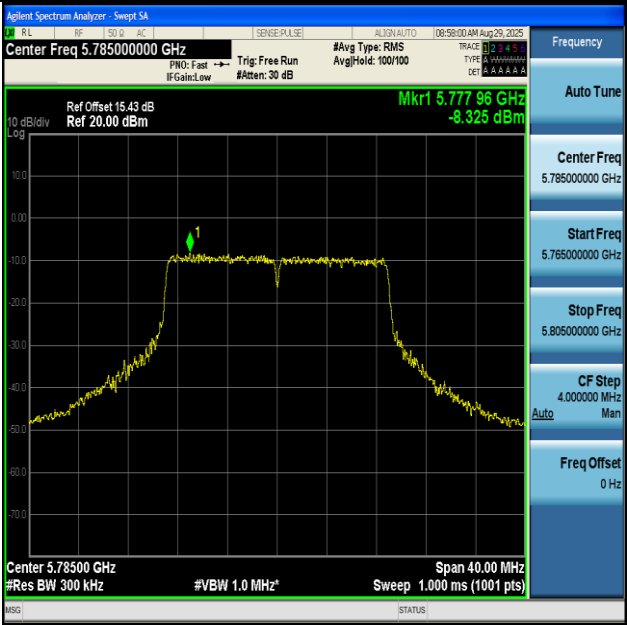




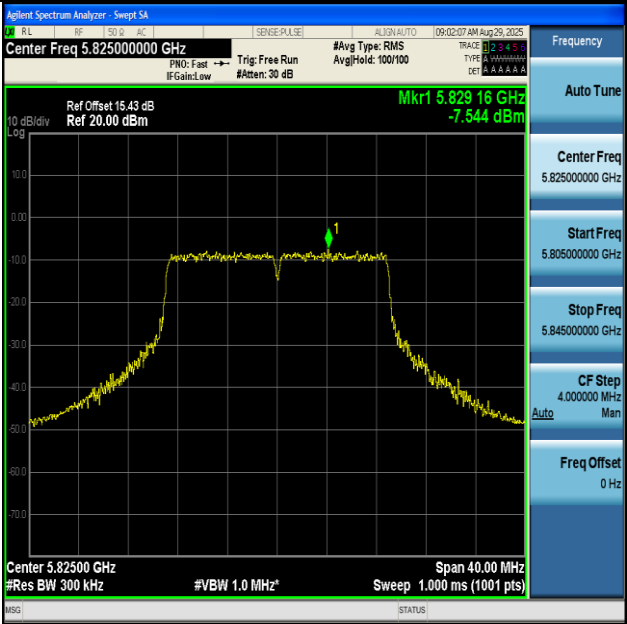
11A-Ant1-5825-PASS



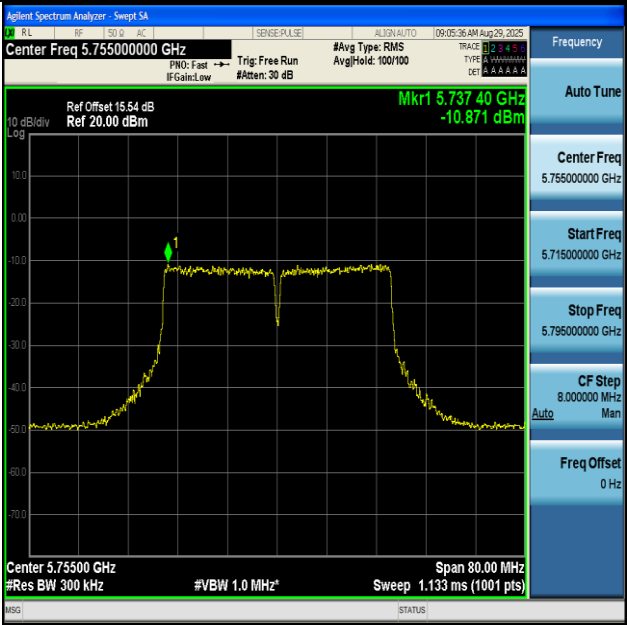
11N20SISO-Ant1-5745-PASS



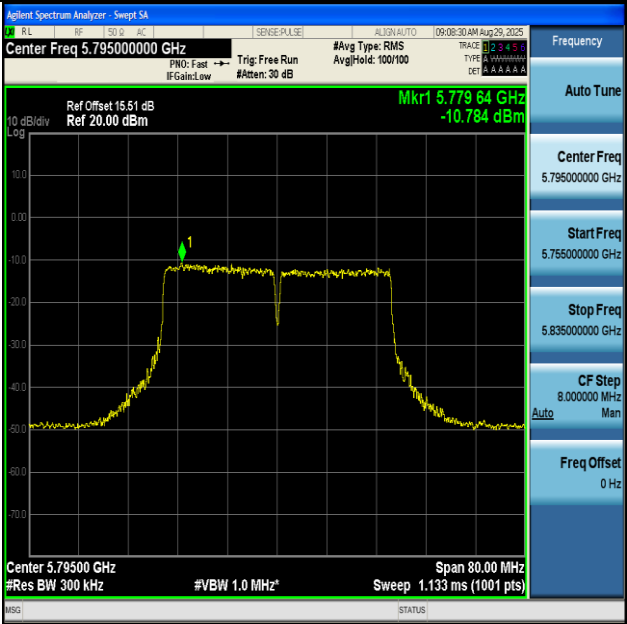
11N20SISO-Ant1-5785-PASS



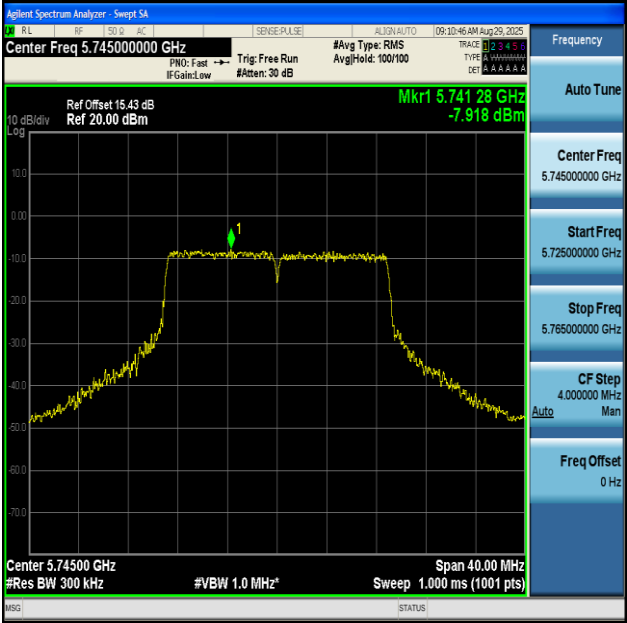
11N20SISO-Ant1-5825-PASS



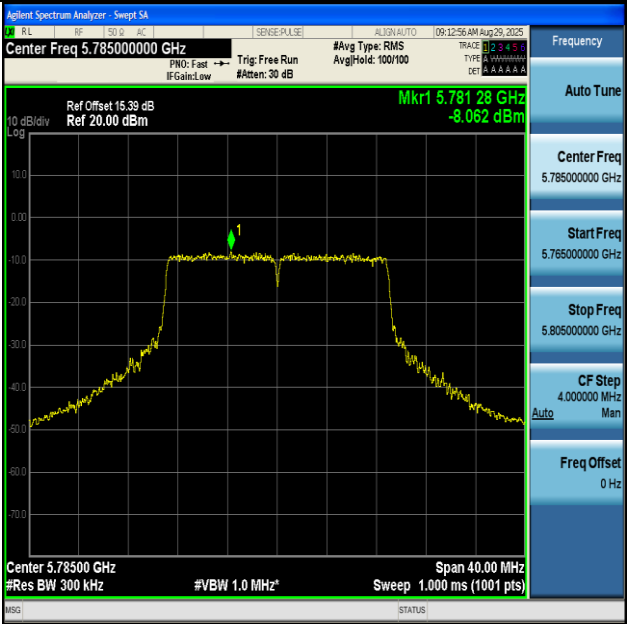
11N40SISO-Ant1-5755-PASS



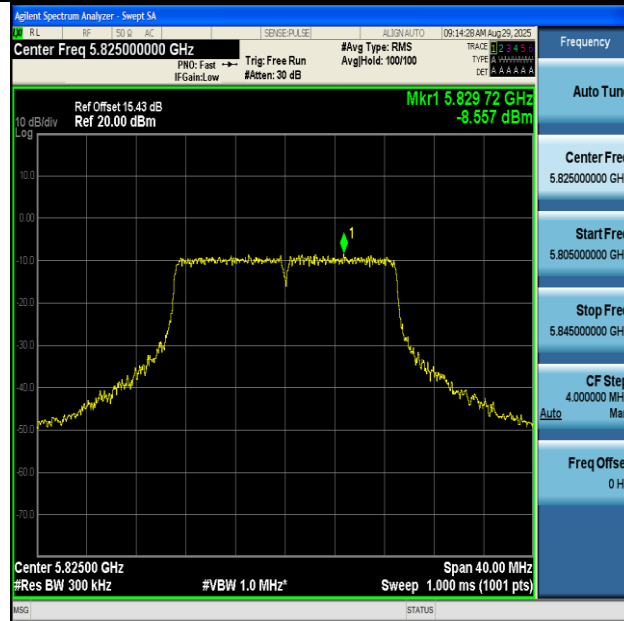
11N40SISO-Ant1-5795-PASS



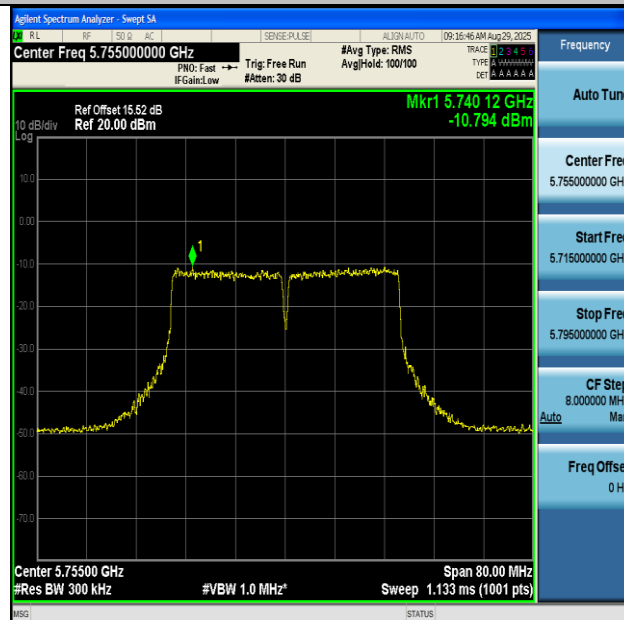
11AC20SISO-Ant1-5745-PASS



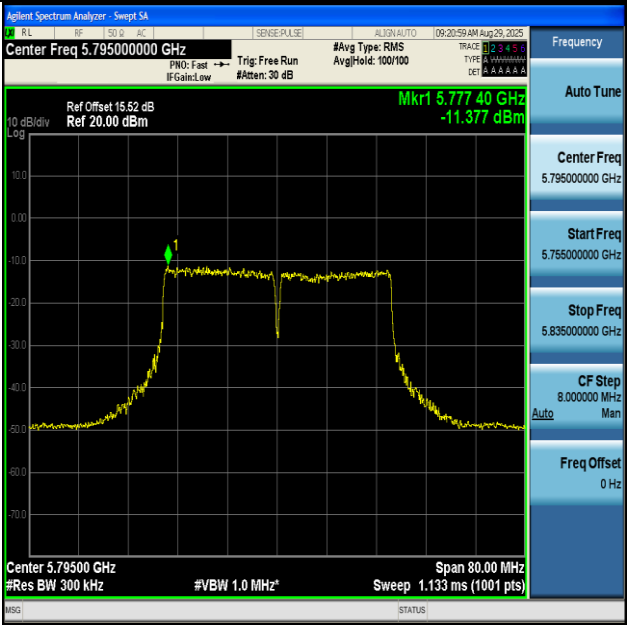
11AC20SISO-Ant1-5785-PASS



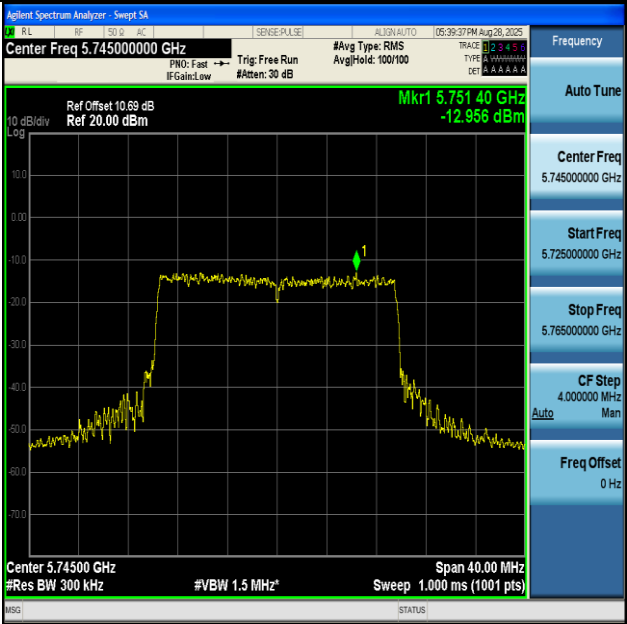
11AC20SISO-Ant1-5825-PASS



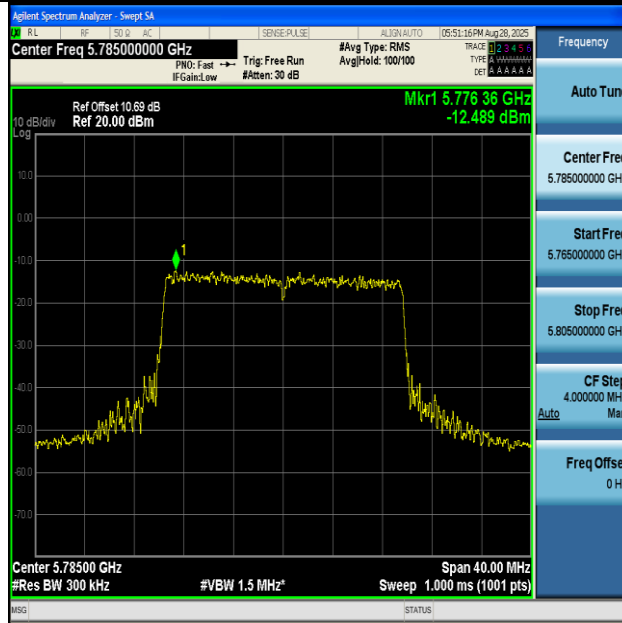
11AC40SISO-Ant1-5755-PASS



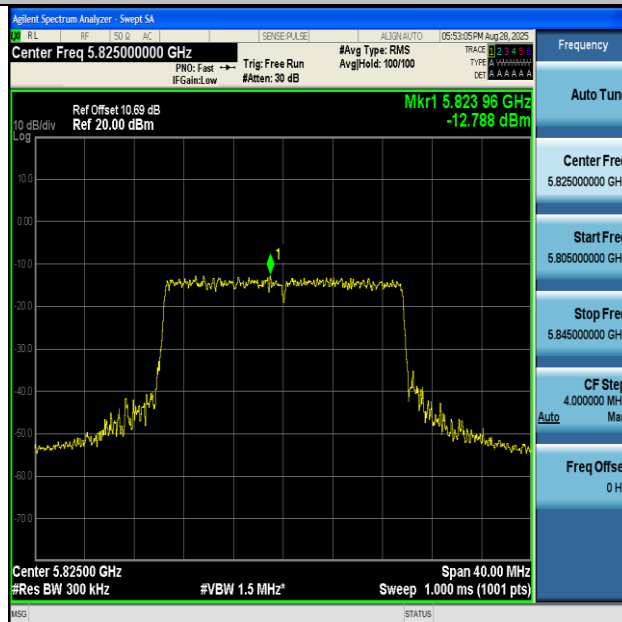
11AC40SISO-Ant1-5795-PASS



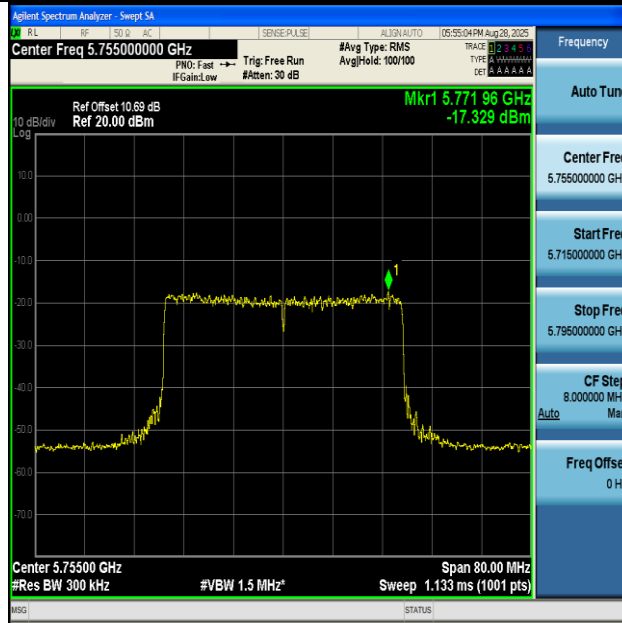
11AX20SISO-Ant1-5745-PASS



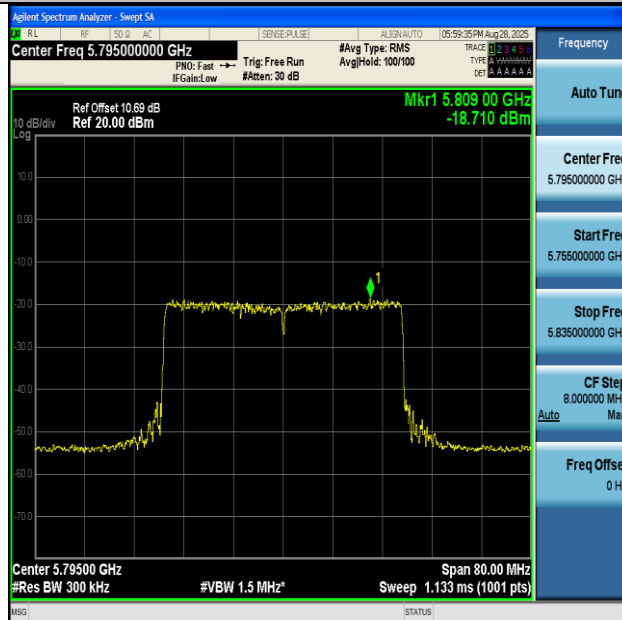
11AX20SISO-Ant1-5785-PASS



11AX20SISO-Ant1-5825-PASS



11AX40SISO-Ant1-5755-PASS



11AX40SISO-Ant1-5795-PASS

Appendix D: Band edge measurements

Test Result

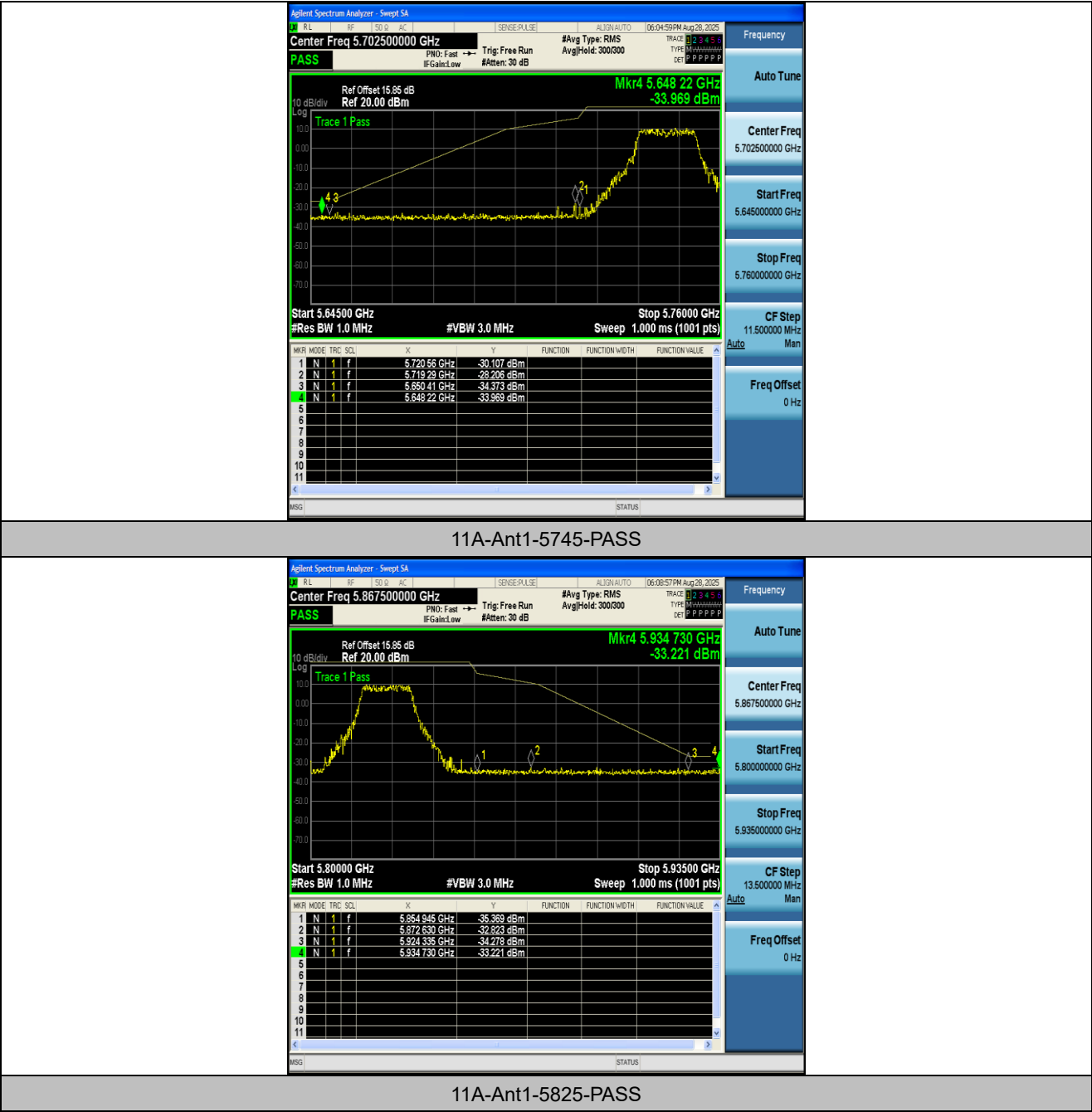
Test Mode	Antenna	Ch. Name	Frequency [MHz]	Freq. Range [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5720~5725	-30.11	≤16.87	PASS
11A	Ant1	Low	5745	5700~5720	-28.21	≤15.40	PASS
11A	Ant1	Low	5745	5650~5700	-34.37	≤-26.70	PASS
11A	Ant1	Low	5745	5760~5650	-33.97	≤-27	PASS
11A	Ant1	High	5825	5850~5855	-35.37	≤15.73	PASS
11A	Ant1	High	5825	5855~5875	-32.82	≤10.66	PASS
11A	Ant1	High	5825	5875~5925	-34.28	≤-26.51	PASS
11A	Ant1	High	5825	5925~5935	-33.22	≤-27	PASS
11N20SISO	Ant1	Low	5745	5720~5725	-31.86	≤15.82	PASS
11N20SISO	Ant1	Low	5745	5700~5720	-28.08	≤14.60	PASS
11N20SISO	Ant1	Low	5745	5650~5700	-34.53	≤-26.45	PASS
11N20SISO	Ant1	Low	5745	5760~5650	-34.14	≤-27	PASS
11N20SISO	Ant1	High	5825	5850~5855	-34.08	≤15.73	PASS
11N20SISO	Ant1	High	5825	5855~5875	-30.91	≤12.78	PASS
11N20SISO	Ant1	High	5825	5875~5925	-33.74	≤-26.41	PASS
11N20SISO	Ant1	High	5825	5925~5935	-34.01	≤-27	PASS
11N40SISO	Ant1	Low	5755	5720~5725	-26.91	≤17.28	PASS
11N40SISO	Ant1	Low	5755	5700~5720	-27.78	≤14.60	PASS
11N40SISO	Ant1	Low	5755	5650~5700	-34.75	≤-26.40	PASS
11N40SISO	Ant1	Low	5755	5780~5650	-34.08	≤-27	PASS
11N40SISO	Ant1	High	5795	5850~5855	-33.95	≤16.41	PASS
11N40SISO	Ant1	High	5795	5855~5875	-32.64	≤10.80	PASS
11N40SISO	Ant1	High	5795	5875~5925	-33.25	≤-26.34	PASS
11N40SISO	Ant1	High	5795	5925~5935	-33.21	≤-27	PASS
11AC20SISO	Ant1	Low	5745	5720~5725	-28.77	≤16.08	PASS
11AC20SISO	Ant1	Low	5745	5700~5720	-33.24	≤10.02	PASS
11AC20SISO	Ant1	Low	5745	5650~5700	-34.14	≤-26.79	PASS
11AC20SISO	Ant1	Low	5745	5760~5650	-33.86	≤-27	PASS
11AC20SISO	Ant1	High	5825	5850~5855	-33.94	≤15.73	PASS
11AC20SISO	Ant1	High	5825	5855~5875	-33.9	≤10.13	PASS
11AC20SISO	Ant1	High	5825	5875~5925	-34.46	≤-26.61	PASS

11AC20SIS O	Ant1	High	5825	5925~5935	-33.43	≤-27	PASS
11AC40SIS O	Ant1	Low	5755	5720~5725	-31.71	≤17.28	PASS
11AC40SIS O	Ant1	Low	5755	5700~5720	-32.89	≤10.32	PASS
11AC40SIS O	Ant1	Low	5755	5650~5700	-34.01	≤-26.40	PASS
11AC40SIS O	Ant1	Low	5755	5780~5650	-33.96	≤-27	PASS
11AC40SIS O	Ant1	High	5795	5850~5855	-34.52	≤15.66	PASS
11AC40SIS O	Ant1	High	5795	5855~5875	-32.88	≤10.20	PASS
11AC40SIS O	Ant1	High	5795	5875~5925	-34.66	≤-26.95	PASS
11AC40SIS O	Ant1	High	5795	5925~5935	-34.21	≤-27	PASS
11AX20SIS O	Ant1	Low	5745	5720~5725	-28.93	≤19.49	PASS
11AX20SIS O	Ant1	Low	5745	5700~5720	-33.65	≤10.60	PASS
11AX20SIS O	Ant1	Low	5745	5650~5700	-33.82	≤-26.70	PASS
11AX20SIS O	Ant1	Low	5745	5760~5650	-33.4	≤-27	PASS
11AX20SIS O	Ant1	High	5825	5850~5855	-23.87	≤25.58	PASS
11AX20SIS O	Ant1	High	5825	5855~5875	-31.24	≤11.80	PASS
11AX20SIS O	Ant1	High	5825	5875~5925	-34.03	≤-26.61	PASS
11AX20SIS O	Ant1	High	5825	5925~5935	-33.52	≤-27	PASS
11AX40SIS O	Ant1	Low	5755	5720~5725	-34.77	≤15.74	PASS
11AX40SIS O	Ant1	Low	5755	5700~5720	-33.4	≤10.02	PASS
11AX40SIS O	Ant1	Low	5755	5650~5700	-35.5	≤-26.90	PASS
11AX40SIS O	Ant1	Low	5755	5780~5650	-33.82	≤-27	PASS
11AX40SIS O	Ant1	High	5795	5850~5855	-32.38	≤16.03	PASS

11AX40SIS O	Ant1	High	5795	5855~5875	-33.67	≤ 10.71	PASS
11AX40SIS O	Ant1	High	5795	5875~5925	-34.02	≤ 26.71	PASS
11AX40SIS O	Ant1	High	5795	5925~5935	-33.41	≤ 27	PASS

Note: offset(dB) = cable loss(dB) + attenuator factor(dB)

Test Graphs





11N20SISO-Ant1-5745-PASS



11N20SISO-Ant1-5825-PASS



11N40SISO-Ant1-5755-PASS



11N40SISO-Ant1-5795-PASS



11AC20SISO-Ant1-5745-PASS



11AC20SISO-Ant1-5825-PASS



11AC40SISO-Ant1-5755-PASS



11AC40SISO-Ant1-5795-PASS