

FCC Appendix RF Test Data

FCC ID : 2AQ3A-STP41GT0525

Company : Shenzhen VanTop Technology & Innovation Co., Ltd.

EUT : R/C QUADCOPTER

Model Number : DR-STP41G

Report No. : CTA25051001201

Reviewed By : Eric Wang

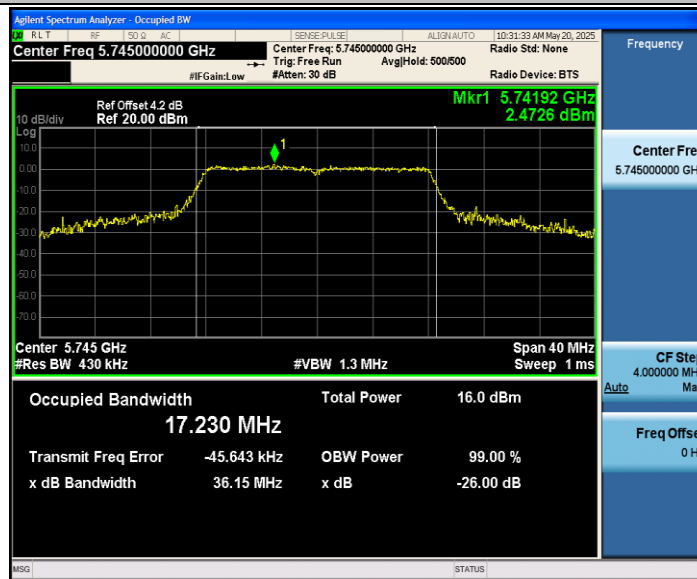
Appendix A1: Occupied channel bandwidth

Test Result

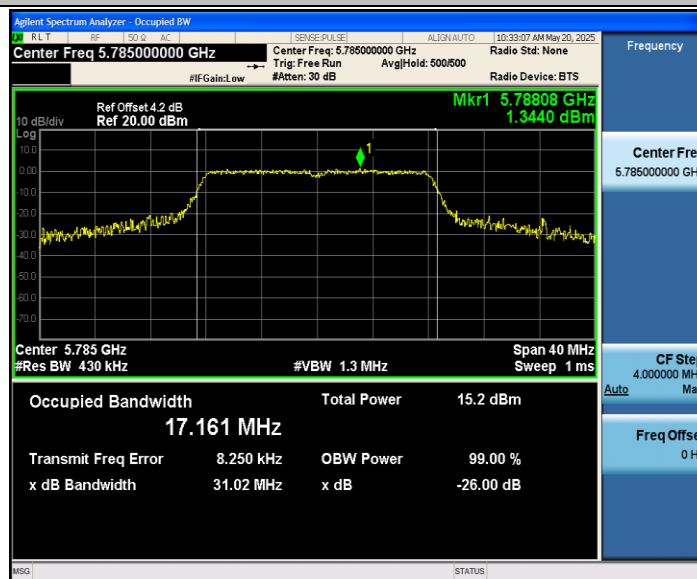
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	17.230	5736.3394	5753.5694	---	---
		5785	17.161	5776.4278	5793.5888	---	---
		5825	17.144	5816.4194	5833.5634	---	---
11N20SISO	Ant1	5745	18.177	5735.9291	5754.1061	---	---
		5785	18.157	5775.9612	5794.1182	---	---
		5825	18.108	5816.0144	5834.1224	---	---
11N40SISO	Ant1	5755	36.519	5736.7122	5773.2312	---	---
		5795	36.509	5776.7818	5813.2908	---	---
11AC20SISO	Ant1	5745	17.930	5736.0317	5753.9617	---	---
		5785	17.952	5776.0252	5793.9772	---	---
		5825	17.882	5816.0973	5833.9793	---	---
11AC40SISO	Ant1	5755	36.499	5736.7445	5773.2435	---	---
		5795	36.368	5776.9026	5813.2706	---	---
11AC80SISO	Ant1	5775	76.146	5736.9473	5813.0933	---	---

Test Graphs

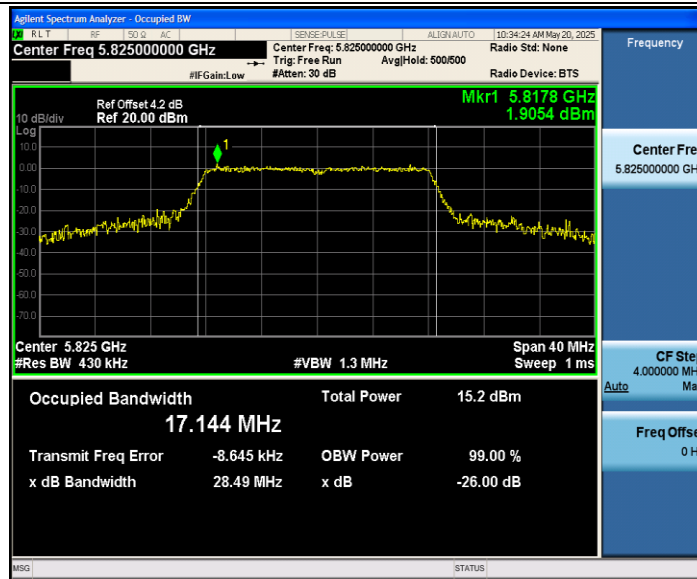
11A_Ant1_5745



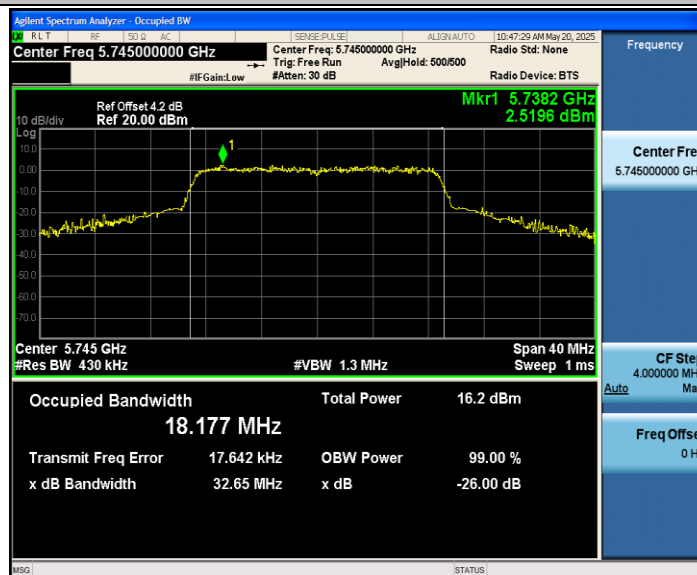
11A_Ant1_5785



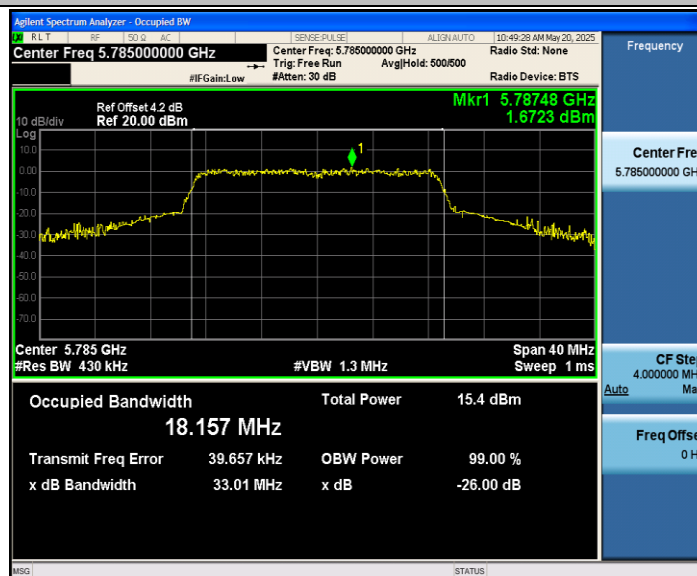
11A_Ant1_5825



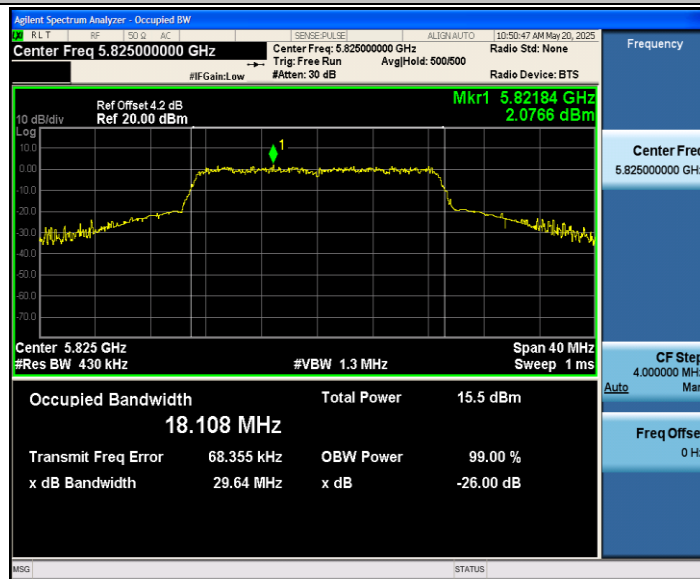
11N20SISO_Ant1_5745



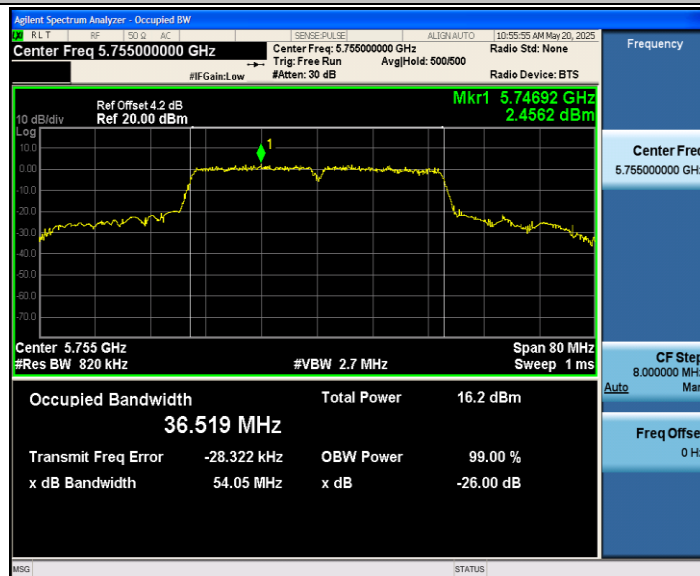
11N20SISO_Ant1_5785



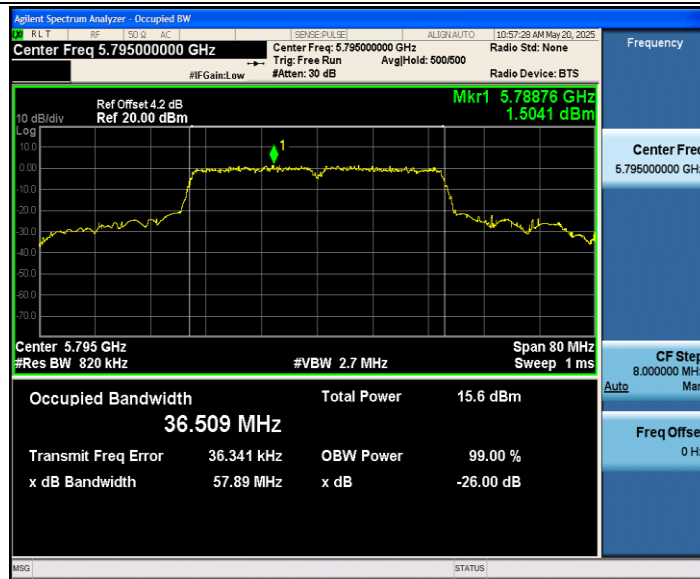
11N20SISO_Ant1_5825



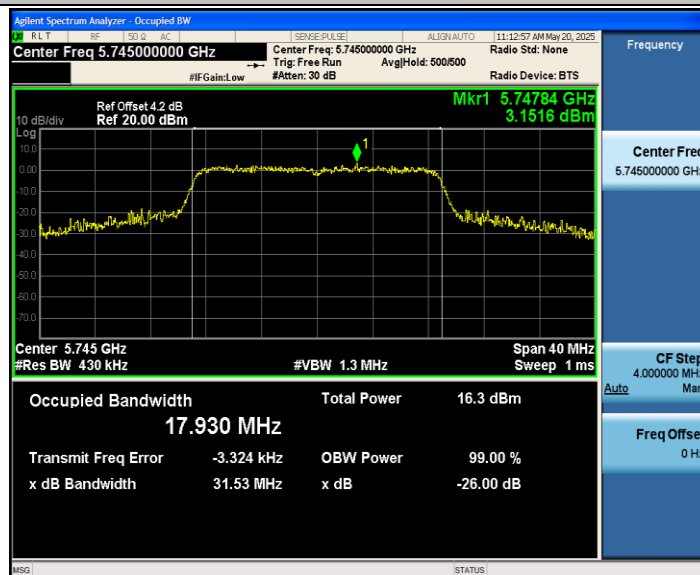
11N40SISO_Ant1_5755



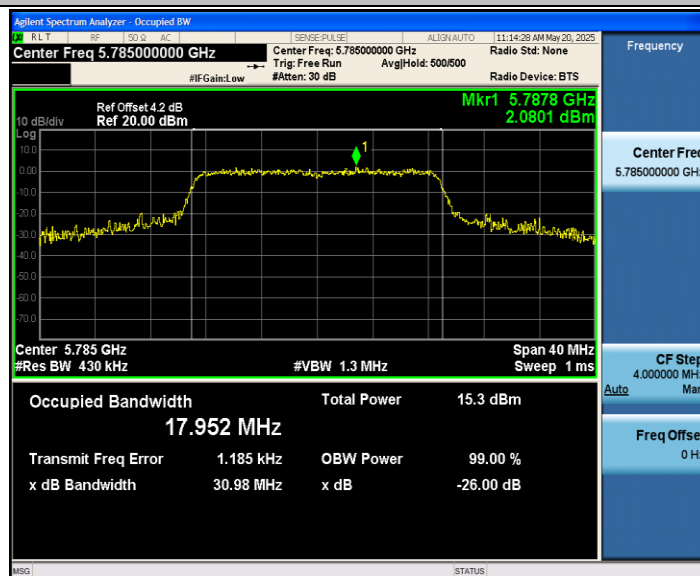
11N40SISO_Ant1_5795



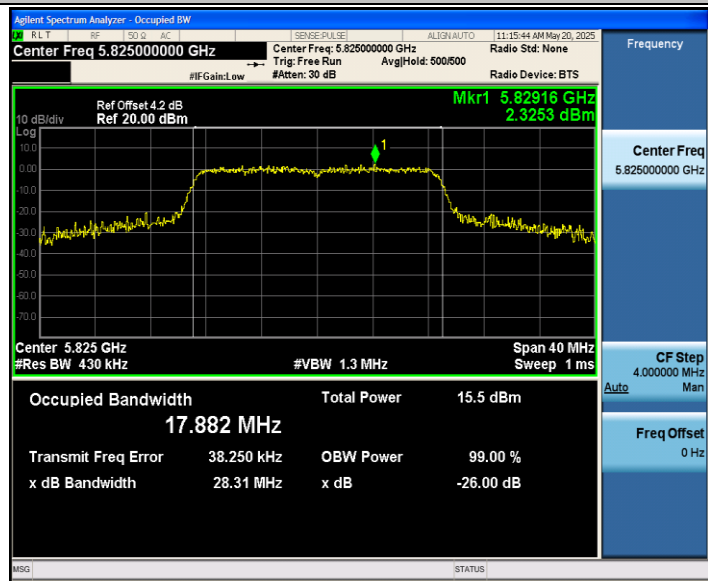
11AC20SISO_Ant1_5745



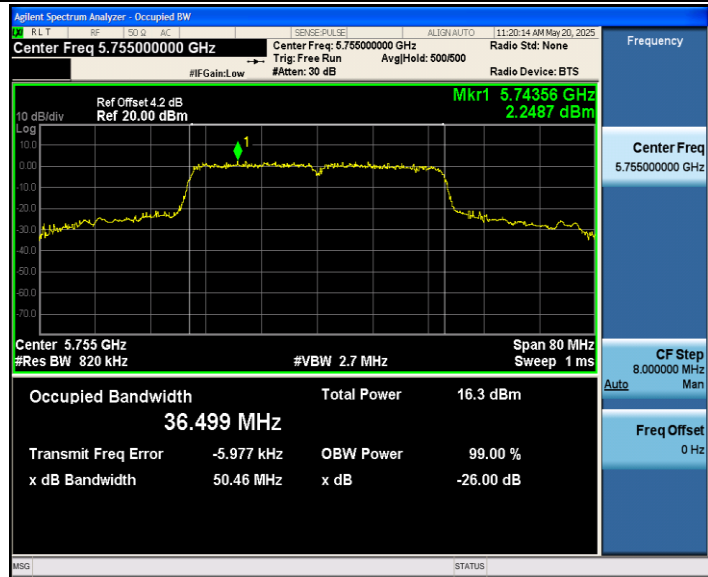
11AC20SISO_Ant1_5785



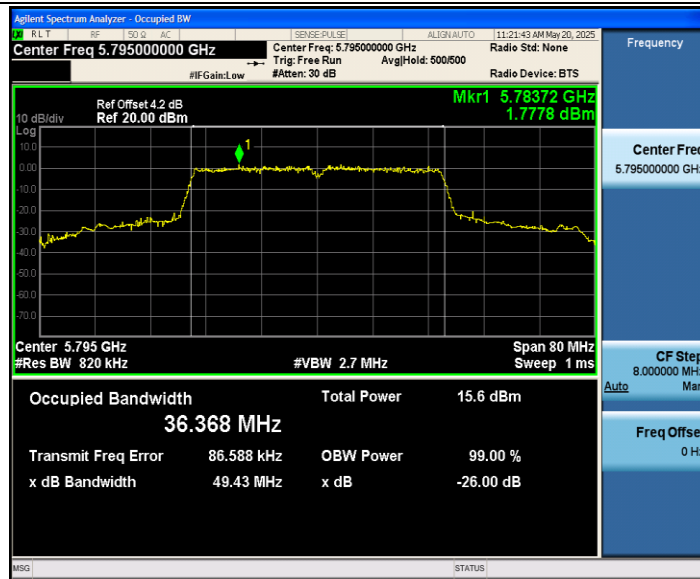
11AC20SISO_Ant1_5825



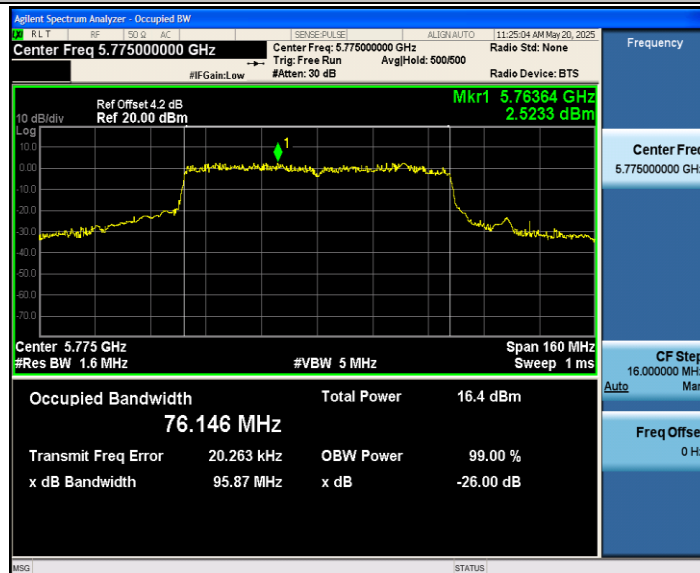
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775

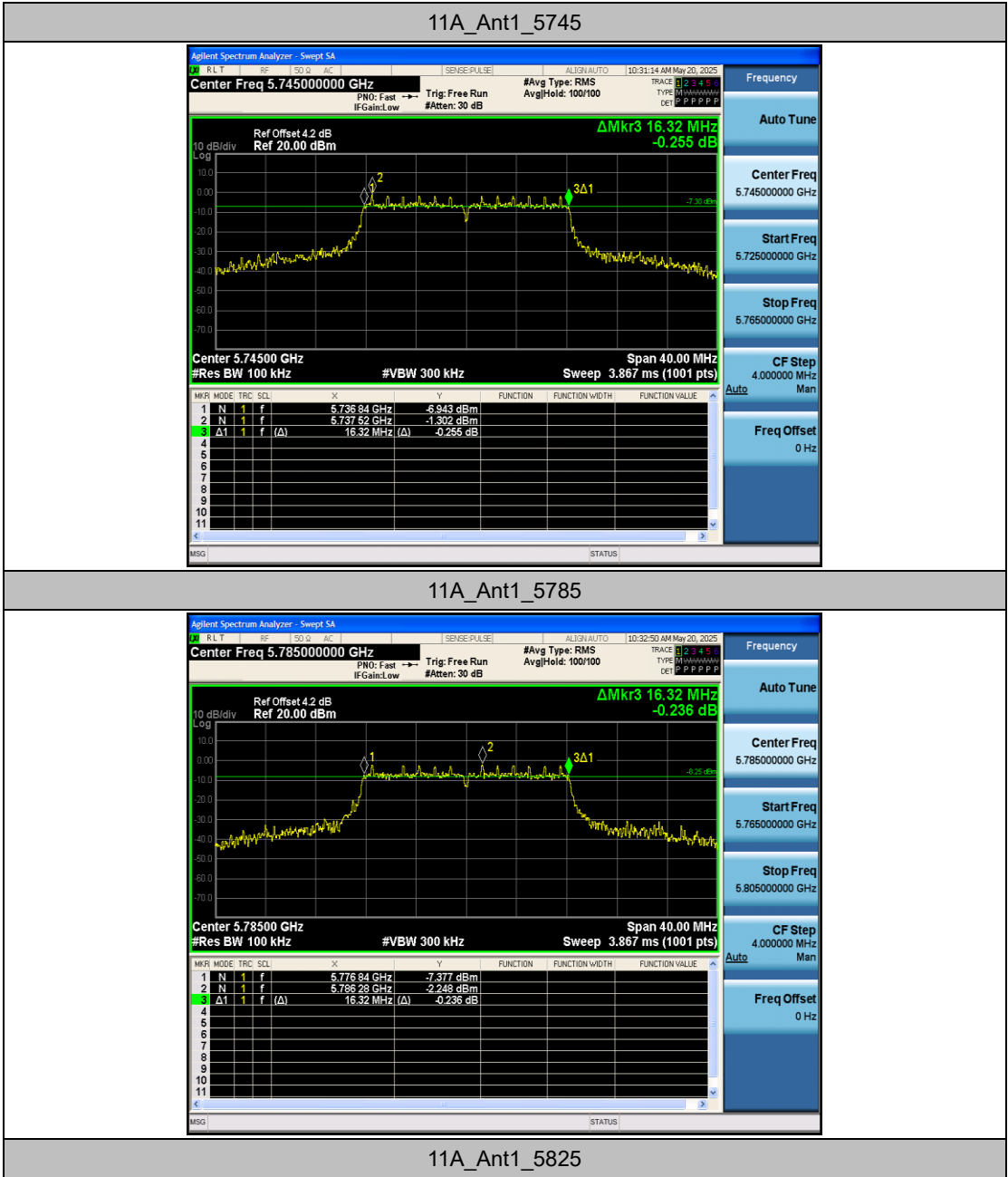


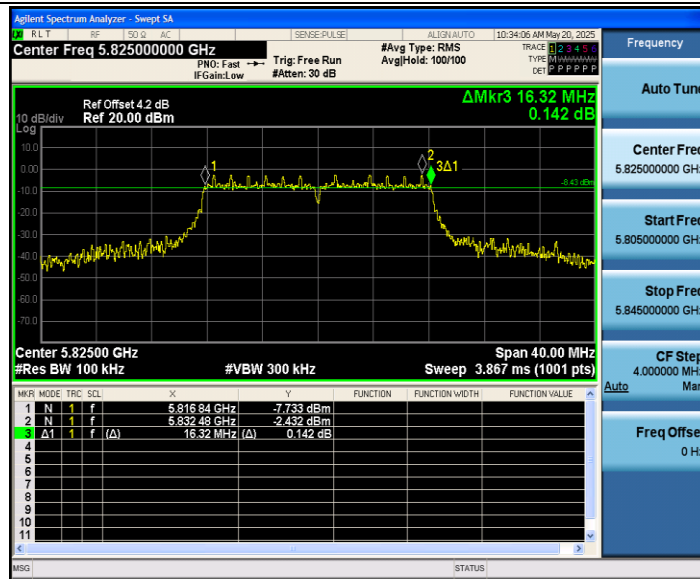
Appendix A2: Min emission bandwidth

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	16.720	5736.640	5753.360	0.5	PASS
		5785	16.880	5776.480	5793.360	0.5	PASS
		5825	17.120	5816.400	5833.520	0.5	PASS
11N40SISO	Ant1	5755	35.440	5737.160	5772.600	0.5	PASS
		5795	35.360	5777.240	5812.600	0.5	PASS
11AC20SISO	Ant1	5745	16.880	5736.480	5753.360	0.5	PASS
		5785	16.640	5776.680	5793.320	0.5	PASS
		5825	17.120	5816.360	5833.480	0.5	PASS
11AC40SISO	Ant1	5755	35.360	5737.240	5772.600	0.5	PASS
		5795	35.360	5777.240	5812.600	0.5	PASS
11AC80SISO	Ant1	5775	75.520	5737.080	5812.600	0.5	PASS

Test Graphs B4

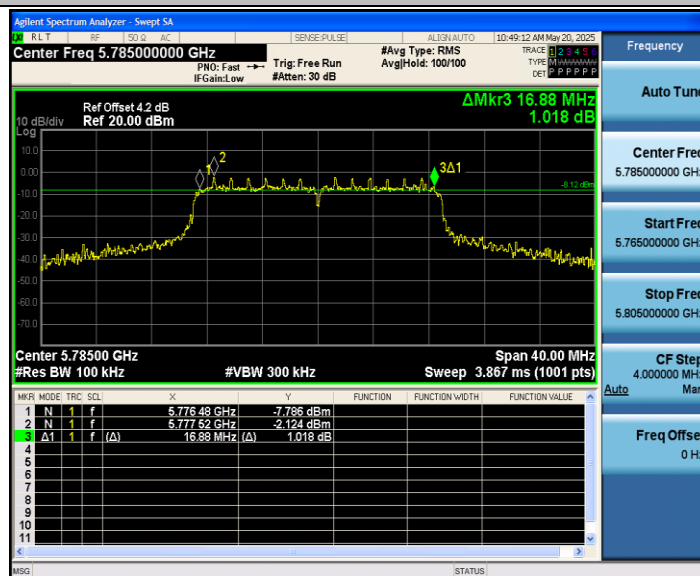




11N20SISO_Ant1_5745



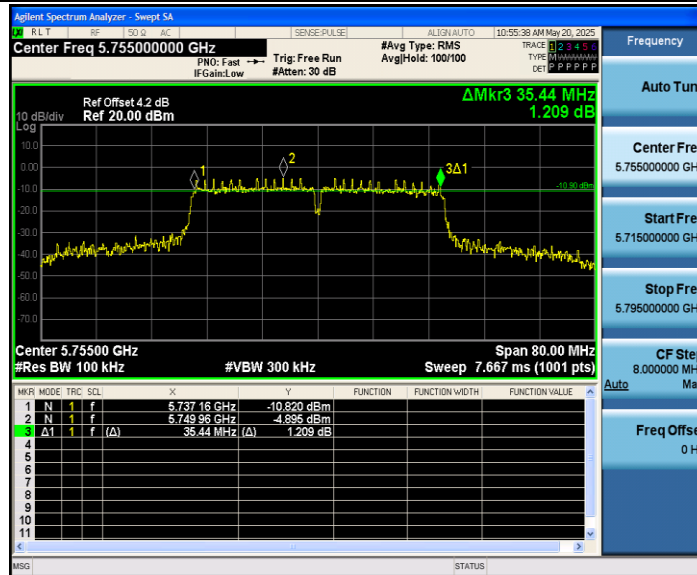
11N20SISO_Ant1_5785



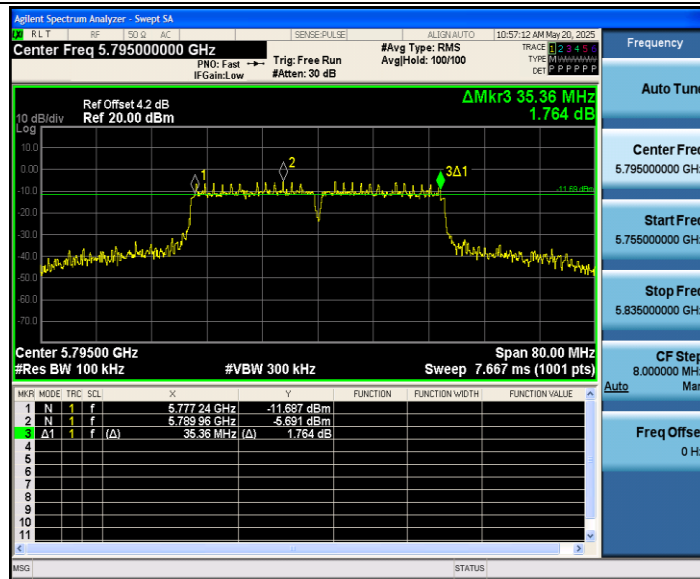
11N20SISO_Ant1_5825



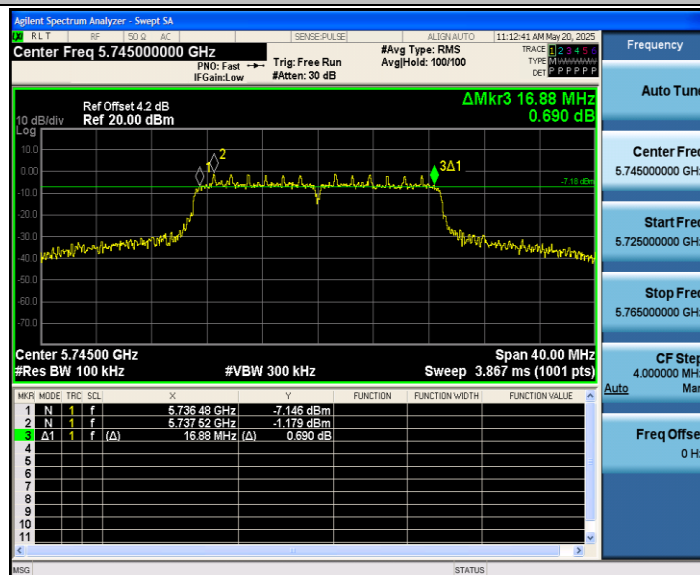
11N40SISO_Ant1_5755



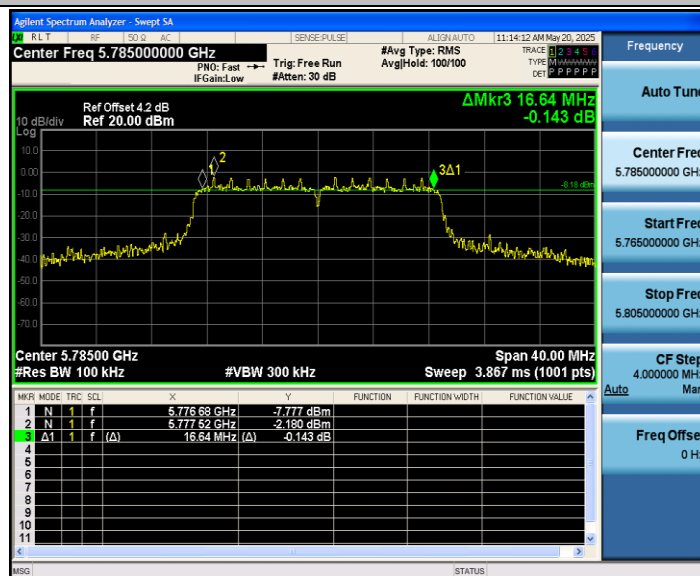
11N40SISO_Ant1_5795



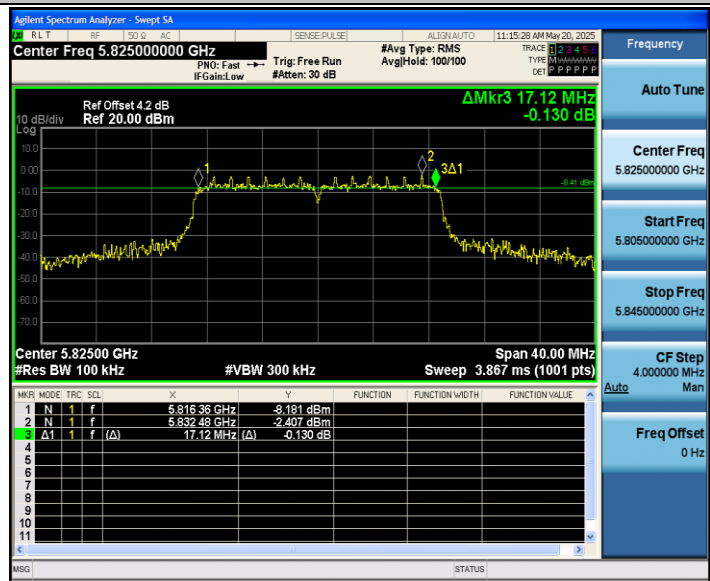
11AC20SISO_Ant1_5745



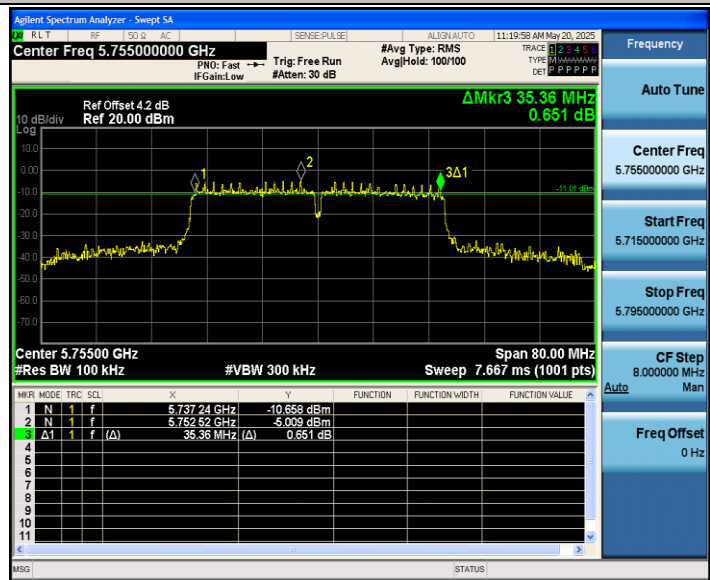
11AC20SISO_Ant1_5785



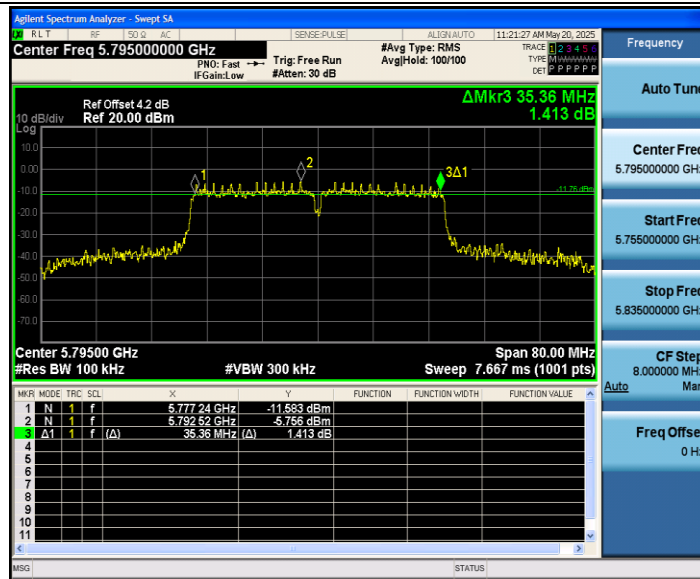
11AC20SISO_Ant1_5825



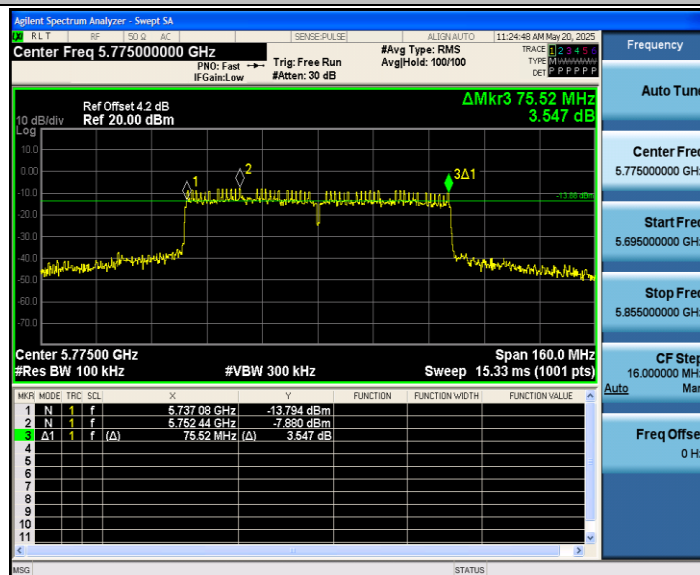
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80ISO_Ant1_5775

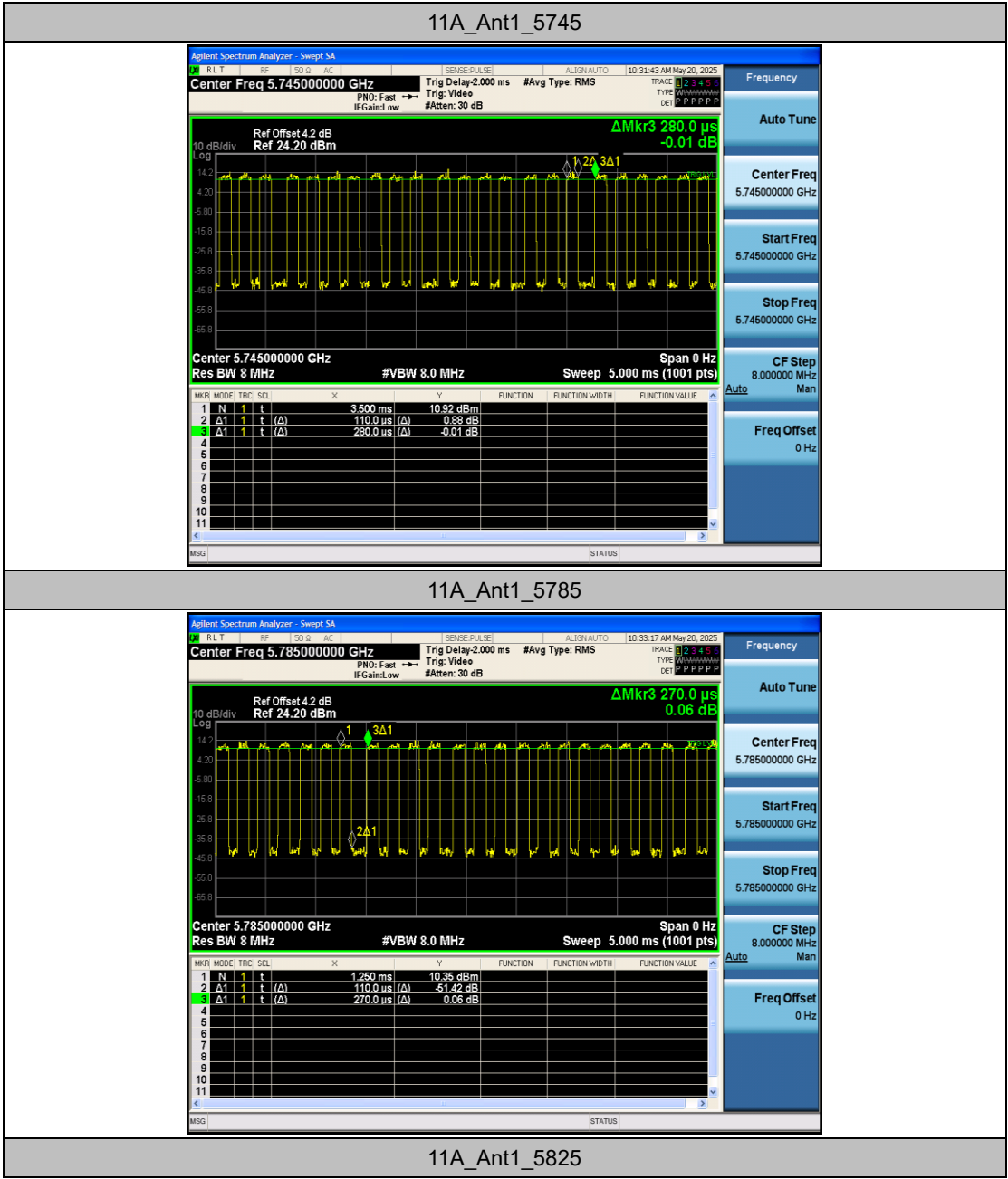


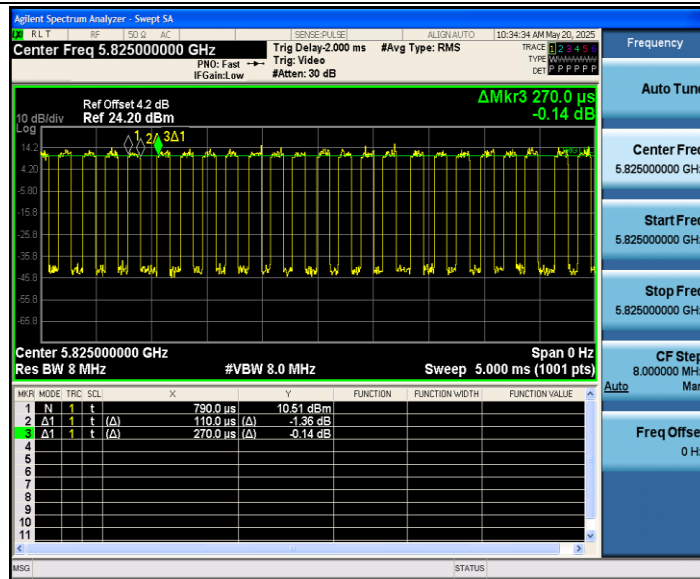
Appendix B: Duty Cycle

Test Result

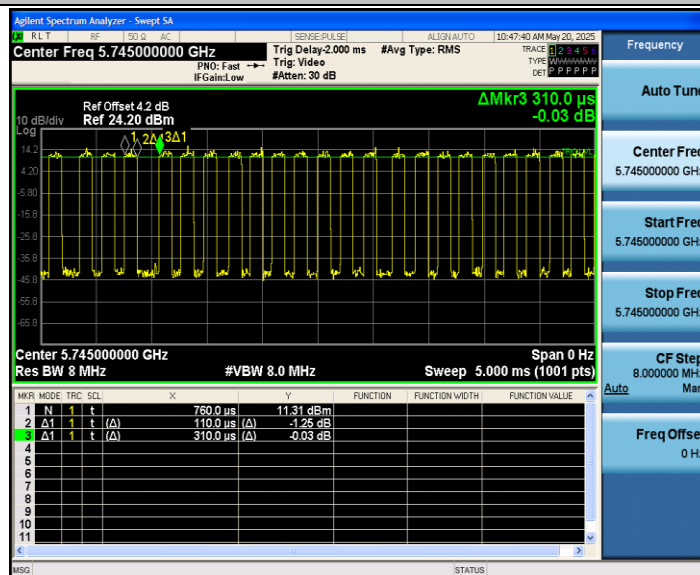
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty factor(dB)	Limit	Verdict
11A	Ant1	5745	0.11	0.28	39.29	4.06	---	---
		5785	0.11	0.27	40.74	3.90	---	---
		5825	0.11	0.27	40.74	3.90	---	---
11N20SISO	Ant1	5745	0.11	0.31	35.48	4.50	---	---
		5785	0.11	0.27	40.74	3.90	---	---
		5825	0.11	0.28	39.29	4.06	---	---
11N40SISO	Ant1	5755	0.07	0.25	28.00	5.53	---	---
		5795	0.07	0.24	29.17	5.35	---	---
11AC20SISO	Ant1	5745	0.12	0.28	42.86	3.68	---	---
		5785	0.12	0.28	42.86	3.68	---	---
		5825	0.12	0.32	37.50	4.26	---	---
11AC40SISO	Ant1	5755	0.08	0.26	30.77	5.12	---	---
		5795	0.08	0.25	32.00	4.95	---	---
11AC80SISO	Ant1	5775	0.05	0.26	19.23	7.16	---	---

Test Graphs

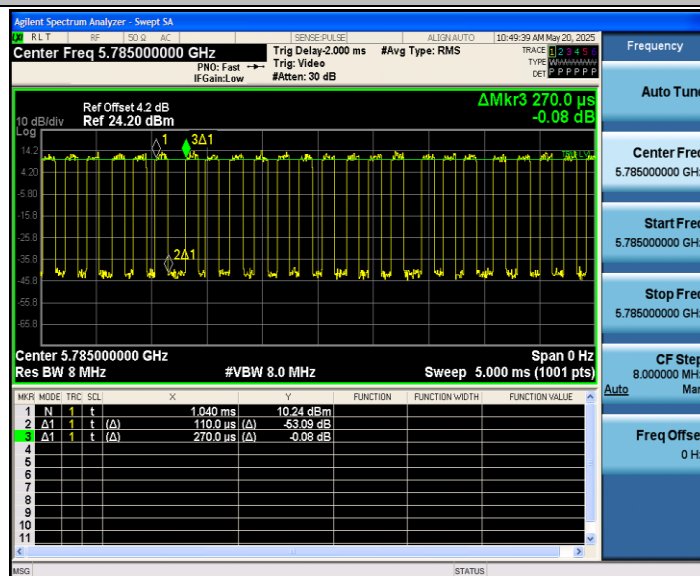




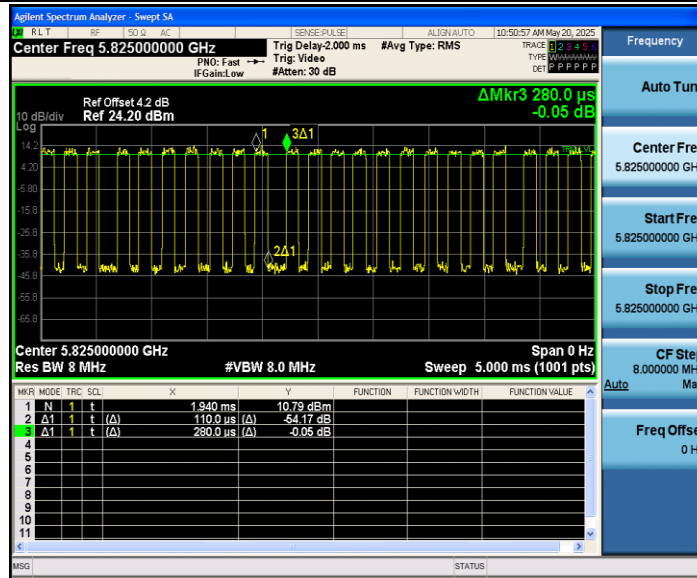
11N20SISO_Ant1_5745



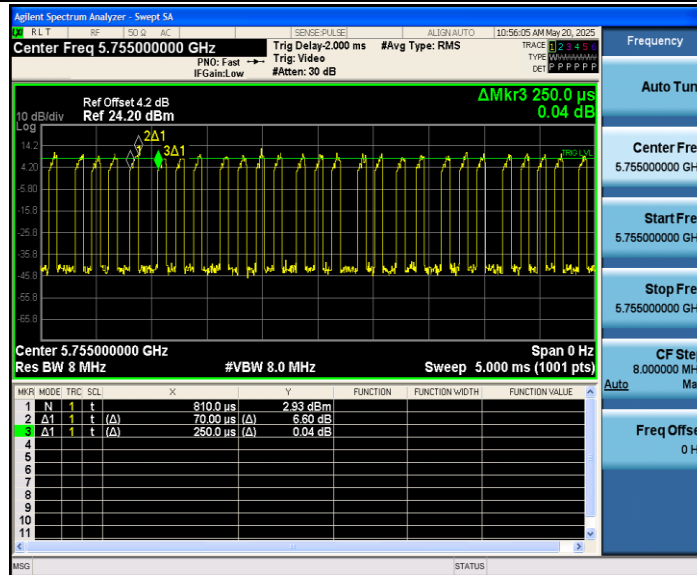
11N20SISO_Ant1_5785



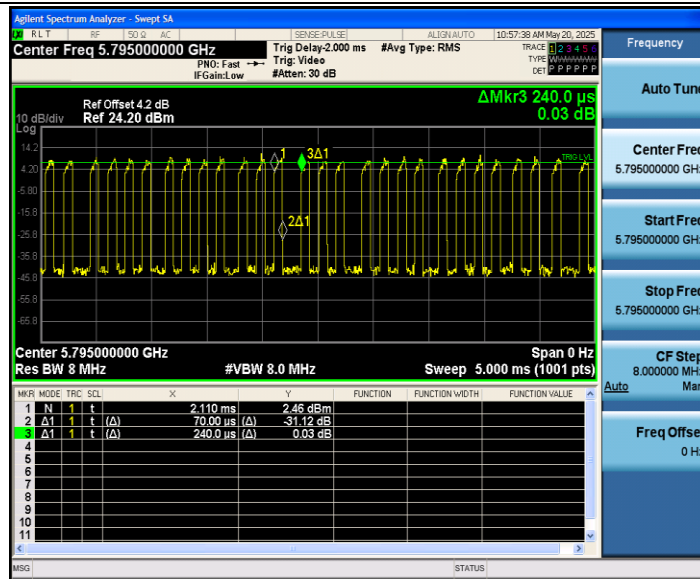
11N20SISO_Ant1_5825



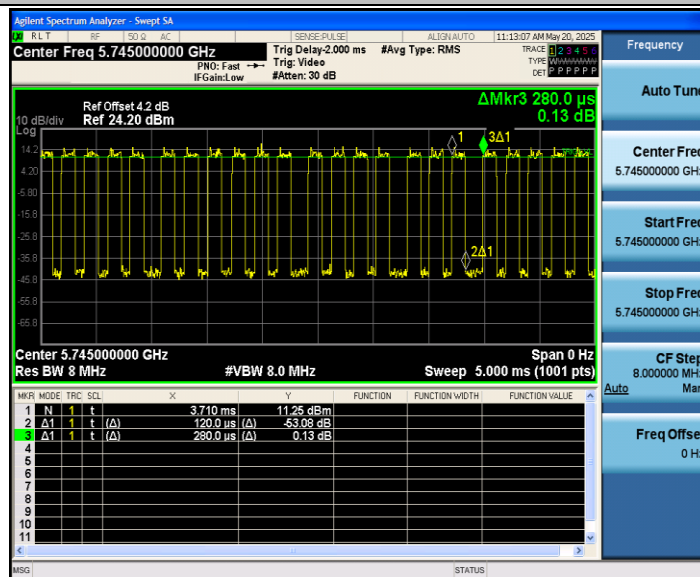
11N40SISO_Ant1_5755



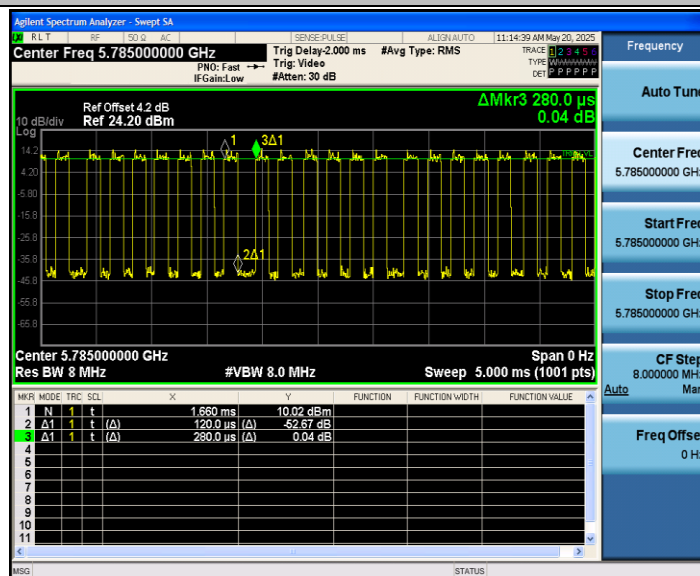
11N40SISO_Ant1_5795



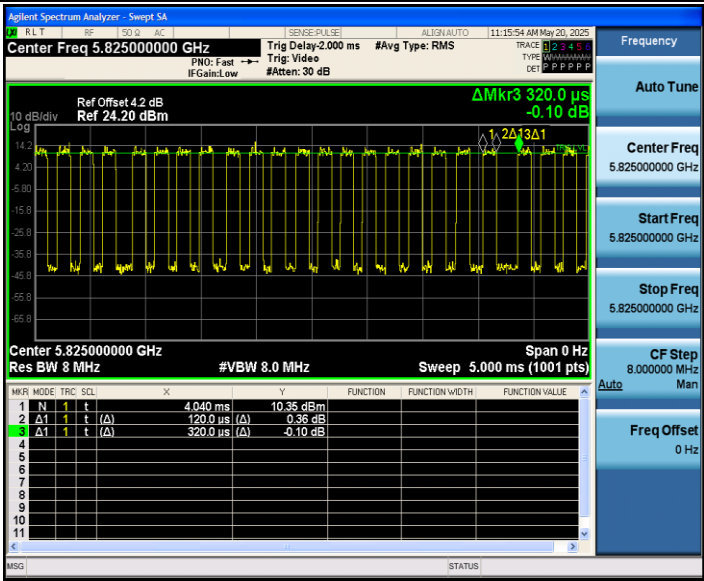
11AC20SISO_Ant1_5745



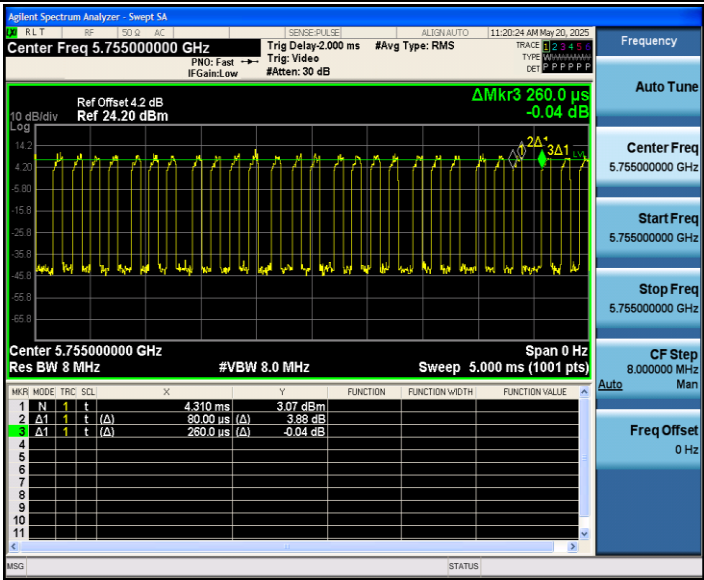
11AC20SISO_Ant1_5785



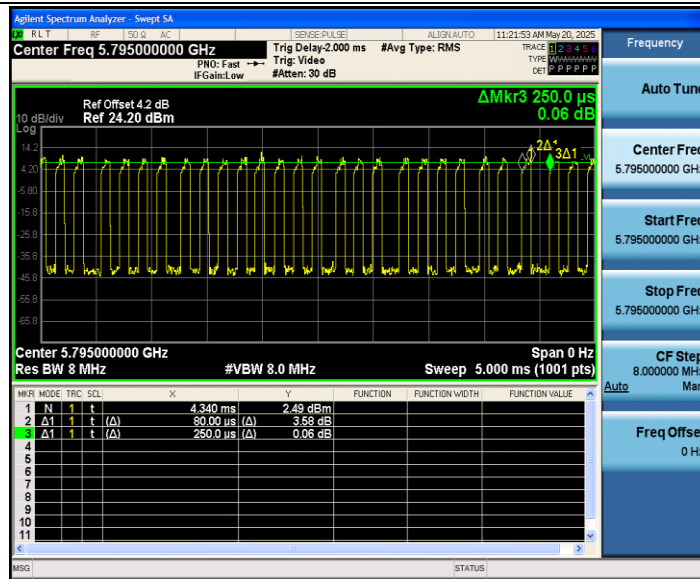
11AC20SISO_Ant1_5825



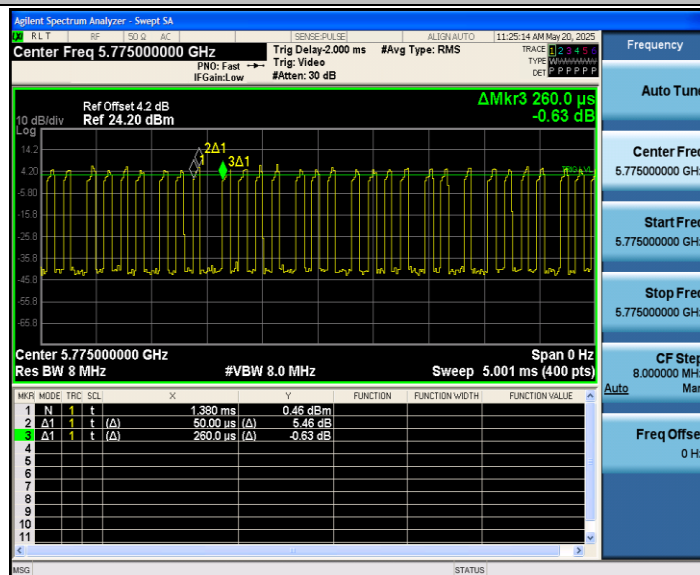
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80ISO_Ant1_5775



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	5745	12.05	4.06	16.11	≤30.00	PASS
		5785	11.30	3.90	15.20	≤30.00	PASS
		5825	11.22	3.90	15.12	≤30.00	PASS
11N20SISO	Ant1	5745	12.04	4.50	16.54	≤30.00	PASS
		5785	11.22	3.90	15.12	≤30.00	PASS
		5825	11.18	4.06	15.24	≤30.00	PASS
11N40SISO	Ant1	5755	10.23	5.53	15.76	≤30.00	PASS
		5795	9.65	5.35	15.00	≤30.00	PASS
11AC20SISO	Ant1	5745	12.09	3.68	15.77	≤30.00	PASS
		5785	11.27	3.68	14.95	≤30.00	PASS
		5825	11.24	4.26	15.50	≤30.00	PASS
11AC40SISO	Ant1	5755	10.37	5.12	15.49	≤30.00	PASS
		5795	9.70	4.95	14.65	≤30.00	PASS
11AC80SISO	Ant1	5775	9.25	7.16	16.41	≤30.00	PASS

Appendix D: Maximum power spectral density

Test Result

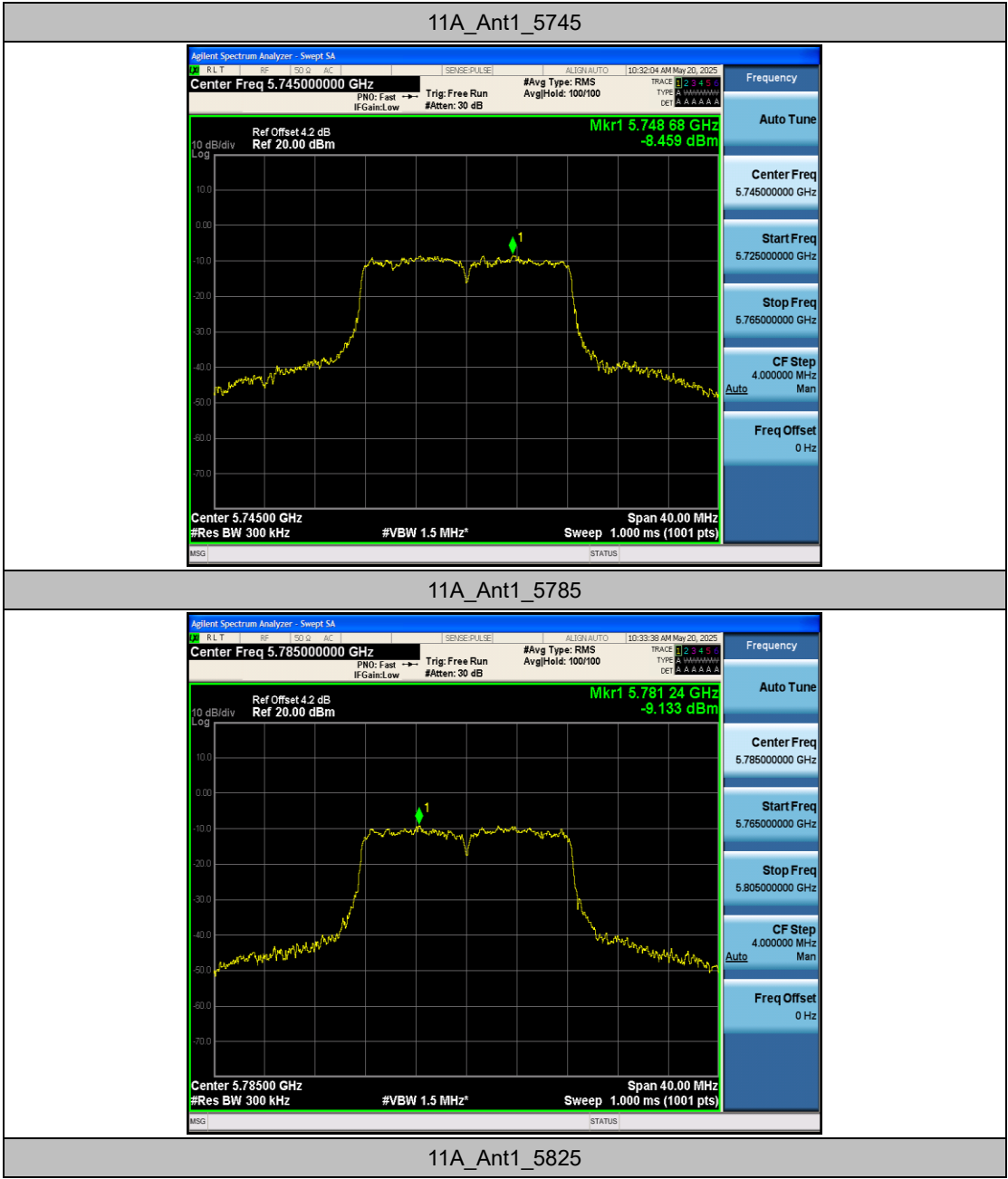
TestMode	Antenna	Freq(MHz)	Result [dBm/300KHz]	RBW Factor (dB)	Duty factor (dB)	Result [dBm/500KHz]	Limit [dBm/500KHz]
11A	Ant1	5745	-8.459	2.22	4.06	-2.18	≤30.00
		5785	-9.133	2.22	3.90	-3.01	≤30.00
		5825	-9.521	2.22	3.90	-3.40	≤30.00
11N20SISO	Ant1	5745	-8.395	2.22	4.50	-1.68	≤30.00
		5785	-8.974	2.22	3.90	-2.85	≤30.00
		5825	-9.417	2.22	4.06	-3.14	≤30.00
11N40SISO	Ant1	5755	-12.623	2.22	5.53	-4.87	≤30.00
		5795	-12.938	2.22	5.35	-5.37	≤30.00
11AC20SISO	Ant1	5745	-8.265	2.22	3.68	-2.37	≤30.00
		5785	-9.005	2.22	3.68	-3.11	≤30.00
		5825	-9.081	2.22	4.26	-2.60	≤30.00
11AC40SISO	Ant1	5755	-12.263	2.22	5.12	-4.92	≤30.00
		5795	-12.644	2.22	4.95	-5.47	≤30.00
11AC80SISO	Ant1	5775	-15.512	2.22	7.16	-6.13	≤30.00

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).

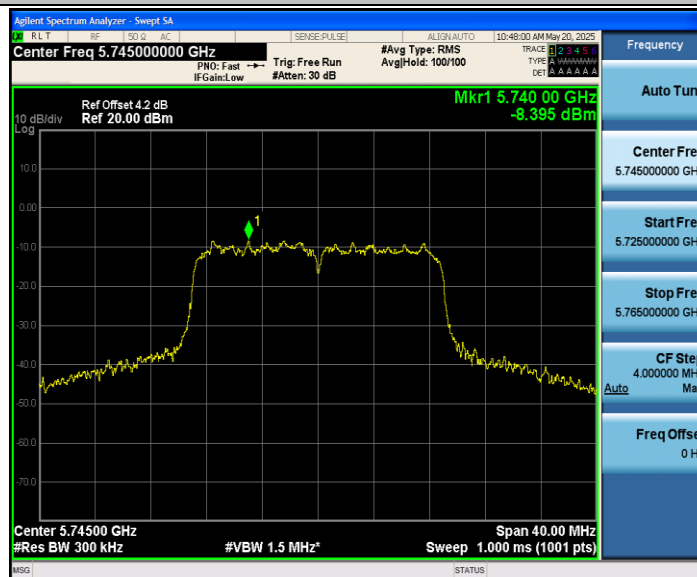
2. RBW factor= 10 log (500 KHz /300 KHz) = 2.22 dB and The RBW Factor is compensated in the data graph.

Test Graphs

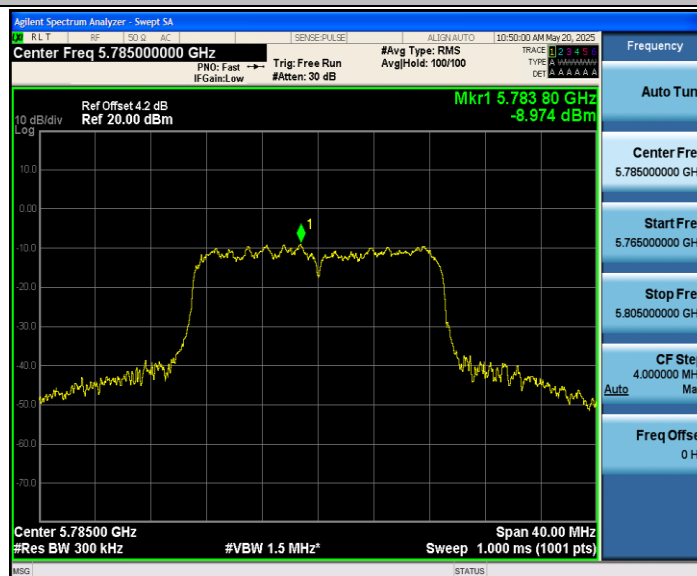




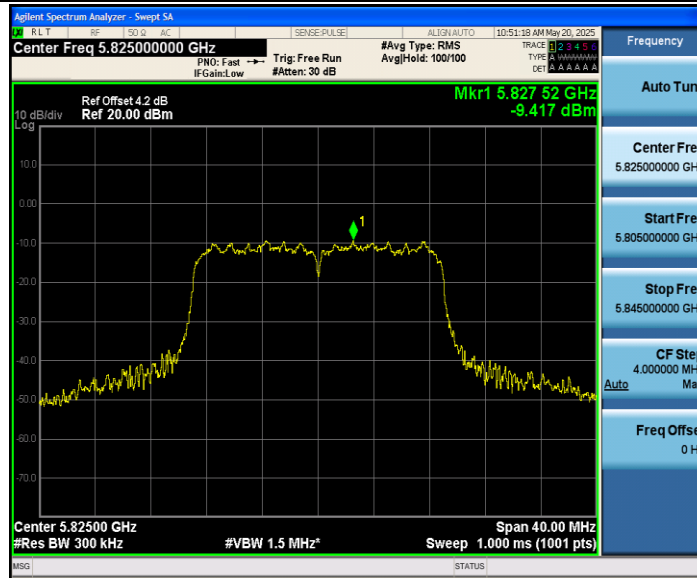
11N20SISO_Ant1_5745



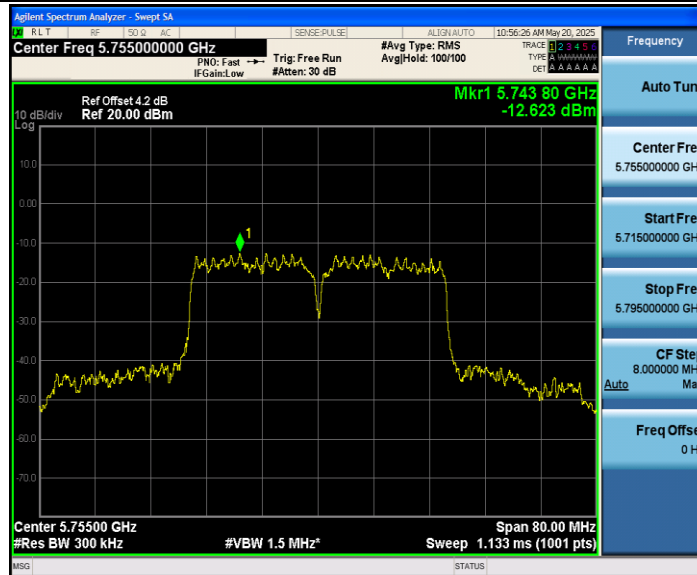
11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



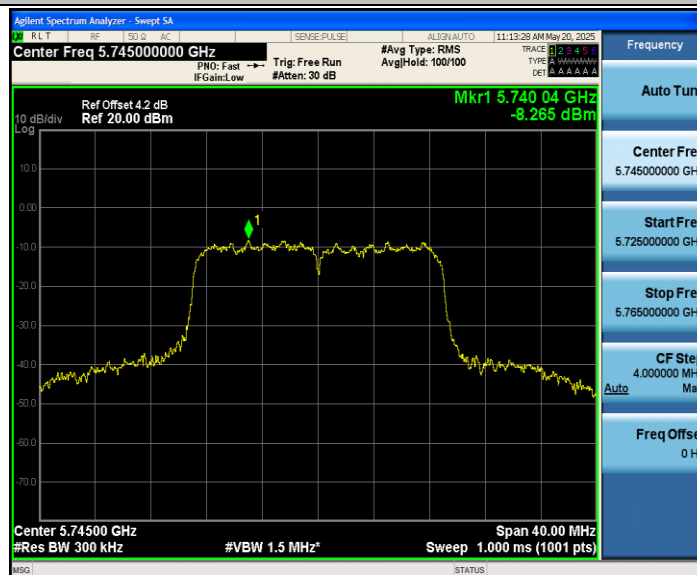
11N40SISO_Ant1_5755



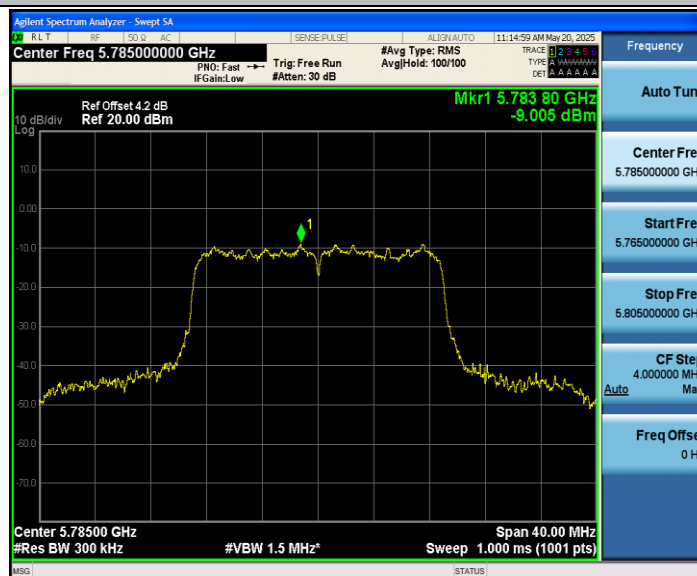
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775

