

FCC Appendix RF Test Data for 5GWIFI

FCC ID : **HQXTT-05**

Company : **Sysgration Ltd.**

EUT : **TPMS Programming Tool**

Model Number : **TT-05**

Report No. : **CTA26060301104**

Reviewed By : **Eric Wang**

Appendix A1: Emission Bandwidth

Test Result

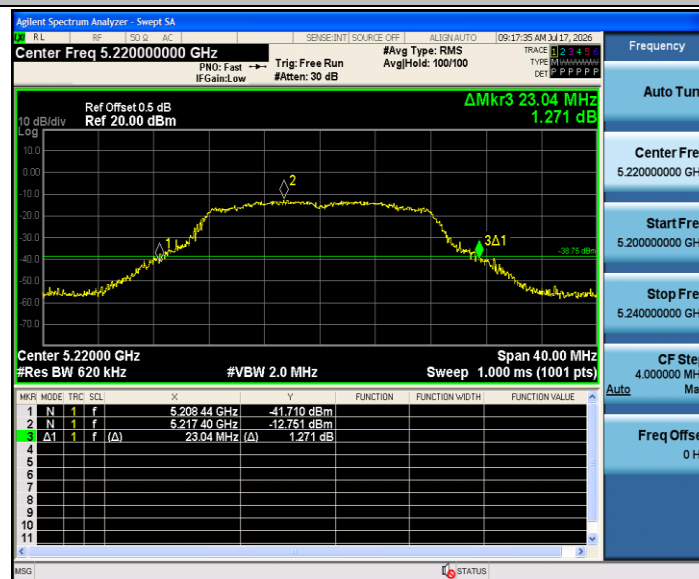
TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	23.640	5168.240	5191.880	---	---
		5220	23.040	5208.440	5231.480	---	---
		5240	23.560	5228.280	5251.840	---	---
		5745	25.560	5732.200	5757.760	---	---
		5785	24.000	5773.040	5797.040	---	---
		5825	24.160	5812.760	5836.920	---	---
11N20SISO	Ant1	5180	24.480	5167.440	5191.920	---	---
		5220	24.520	5207.280	5231.800	---	---
		5240	24.360	5228.040	5252.400	---	---
		5745	24.760	5732.520	5757.280	---	---
		5785	25.440	5772.640	5798.080	---	---
		5825	24.200	5812.880	5837.080	---	---

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



11N20SISO_Ant1_5240



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



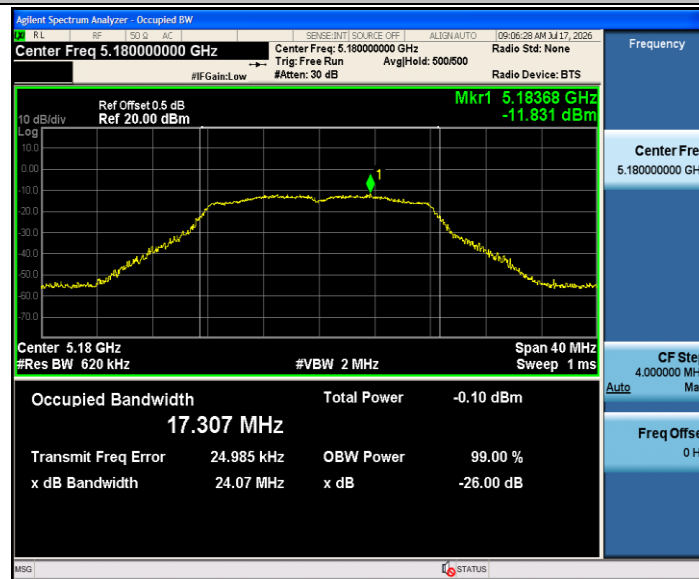
Appendix A2: Occupied channel bandwidth

Test Result

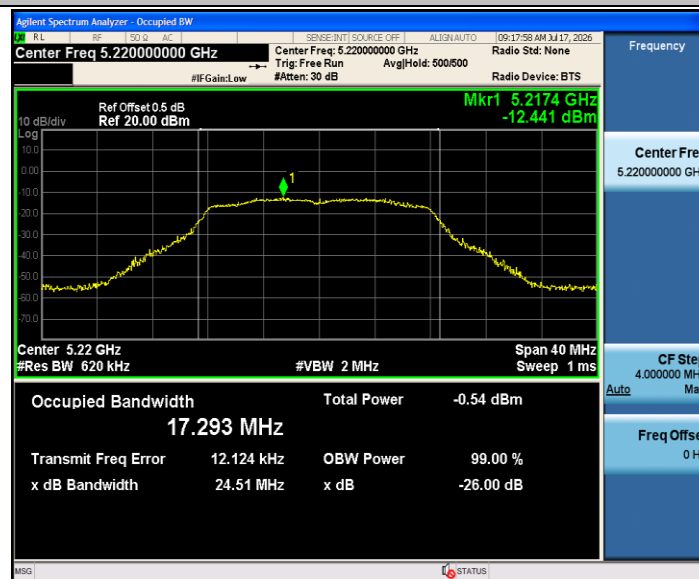
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.307	5171.3715	5188.6785	---	---
		5220	17.293	5211.3656	5228.6586	---	---
		5240	17.296	5231.3314	5248.6274	---	---
		5745	17.689	5736.1489	5753.8379	---	---
		5785	17.768	5776.1152	5793.8832	---	---
		5825	17.620	5816.1769	5833.7969	---	---
11N20SISO	Ant1	5180	18.275	5170.8488	5189.1238	---	---
		5220	18.303	5210.8175	5229.1205	---	---
		5240	18.281	5230.8276	5249.1086	---	---
		5745	18.694	5735.5887	5754.2827	---	---
		5785	18.666	5775.6841	5794.3501	---	---
		5825	18.700	5815.6339	5834.3339	---	---

Test Graphs

11A_Ant1_5180



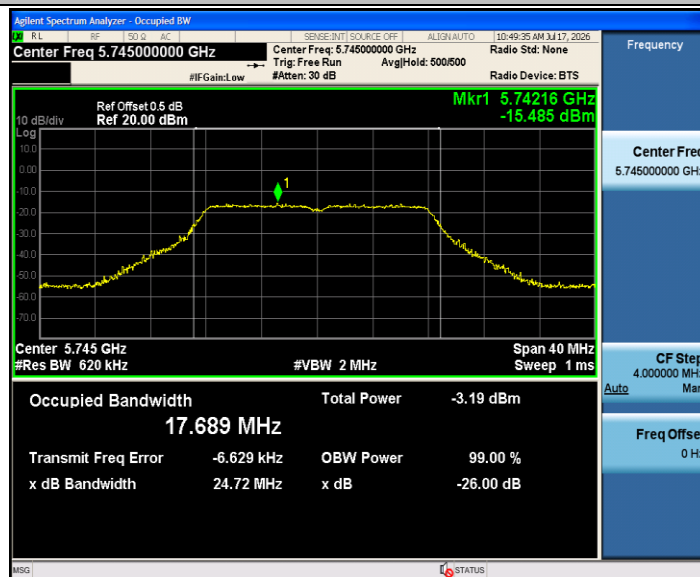
11A_Ant1_5220



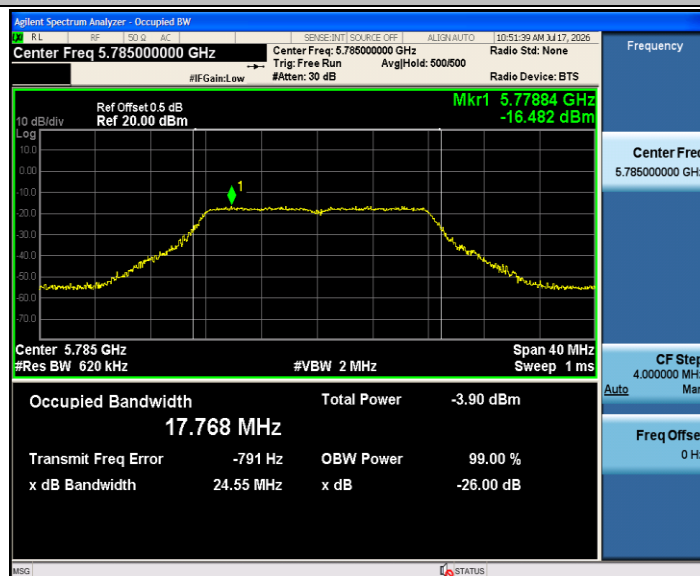
11A_Ant1_5240



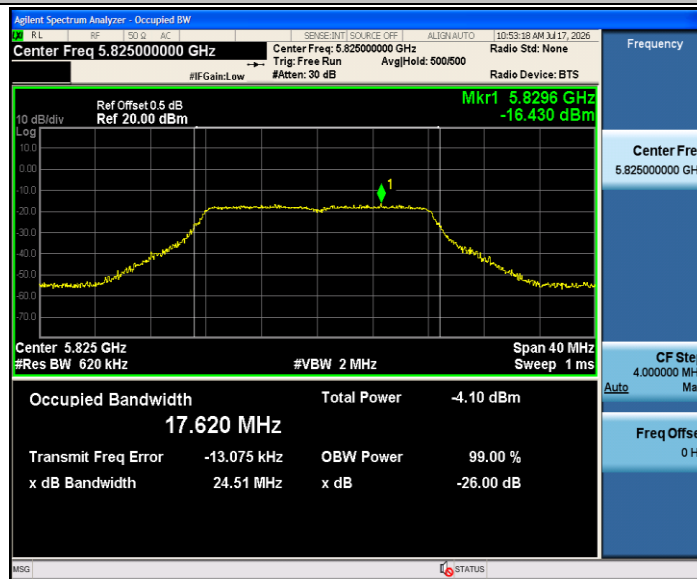
11A_Ant1_5745



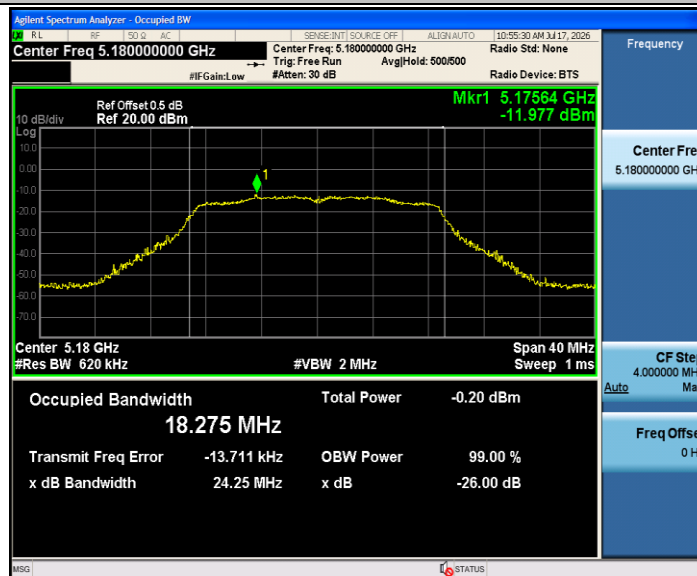
11A_Ant1_5785



11A_Ant1_5825



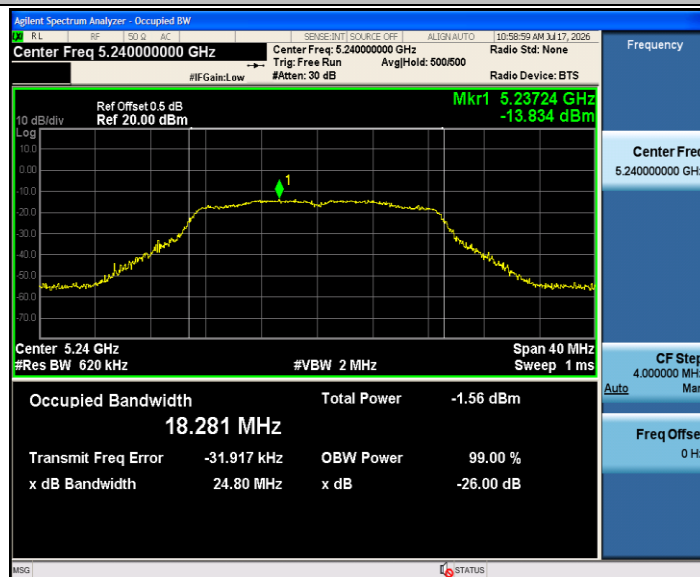
11N20SISO_Ant1_5180



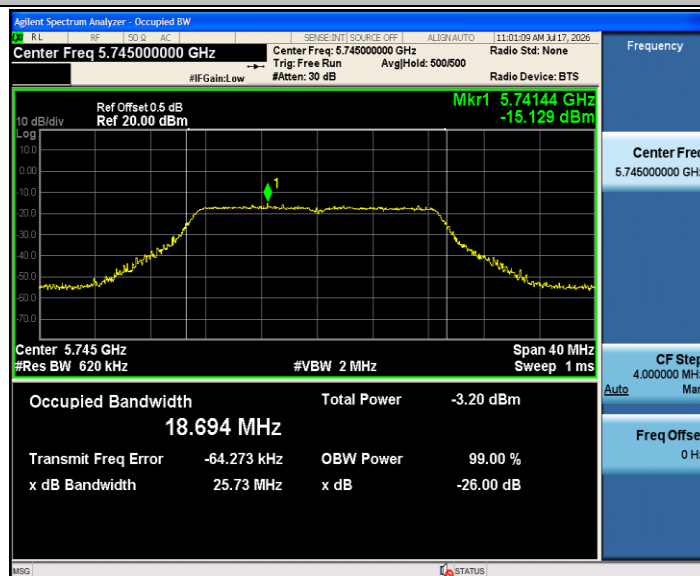
11N20SISO_Ant1_5220



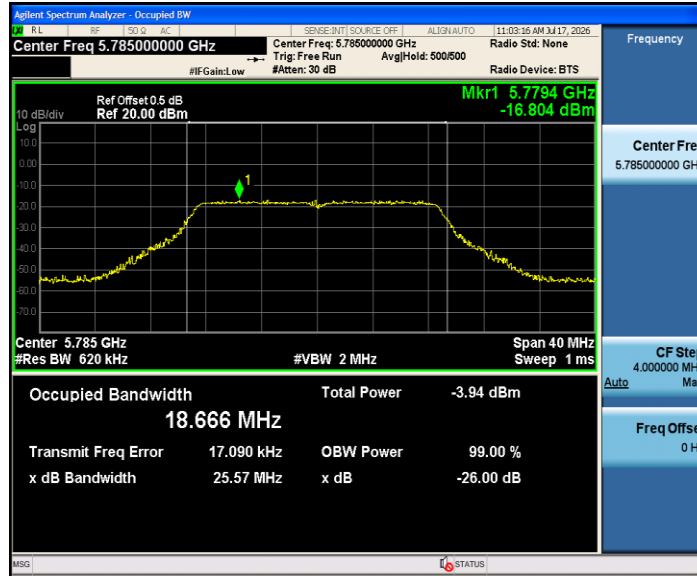
11N20SISO_Ant1_5240



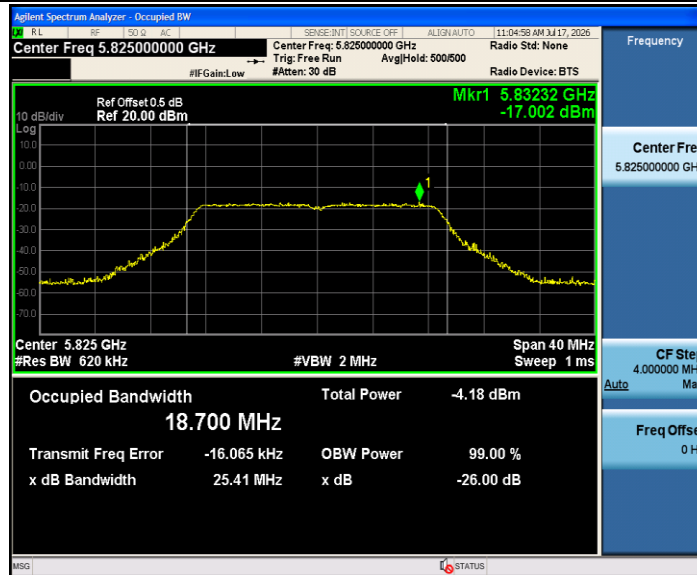
11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825

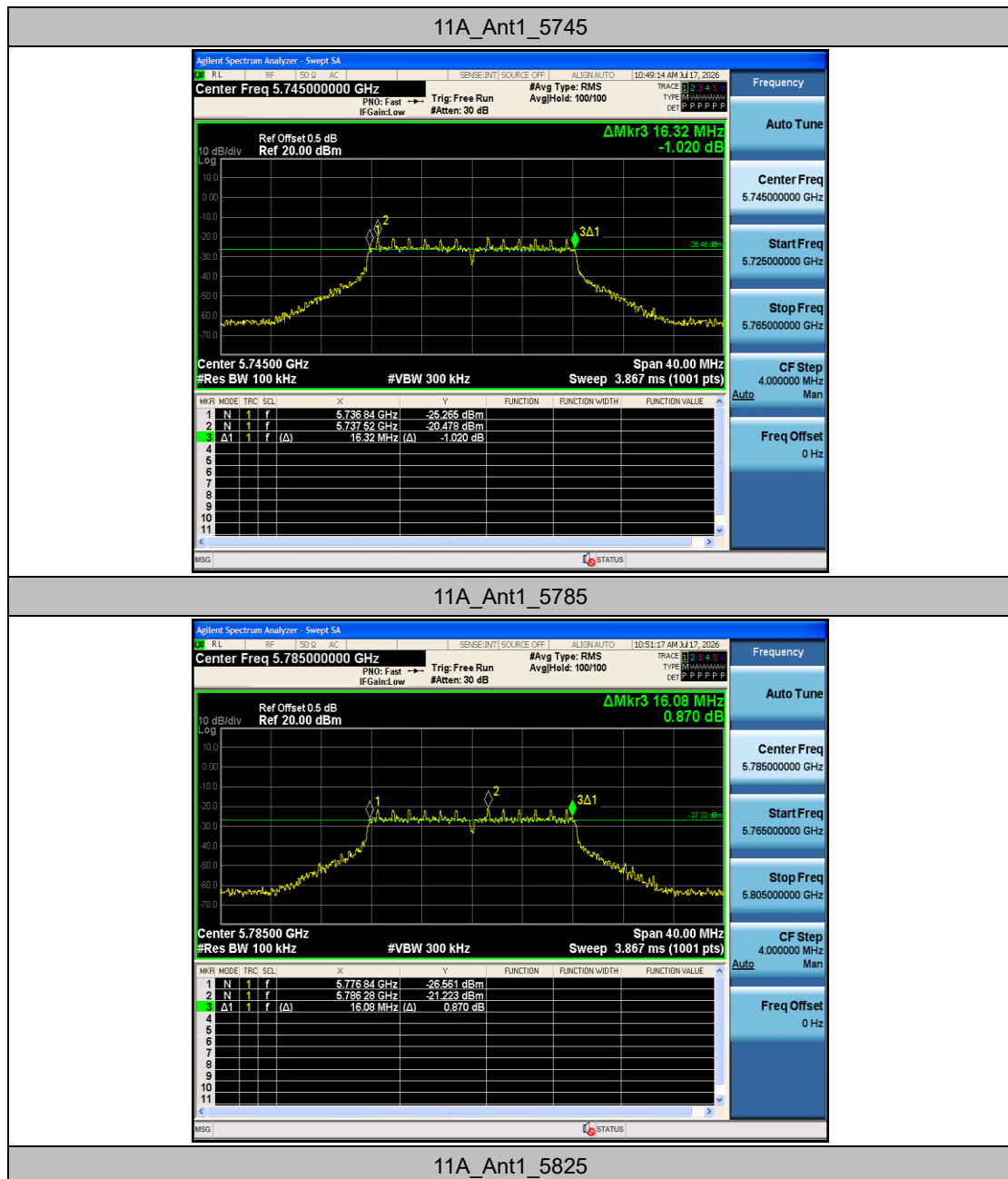


Appendix A3: Min emission bandwidth

Test Result B4

TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.320	5736.840	5753.160	0.5	PASS
		5785	16.080	5776.840	5792.920	0.5	PASS
		5825	16.320	5816.840	5833.160	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	17.160	5816.240	5833.400	0.5	PASS

Test Graphs B4

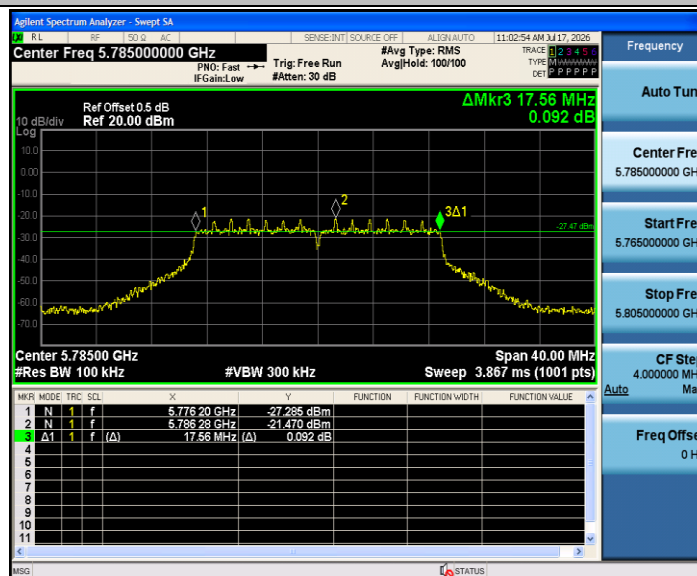




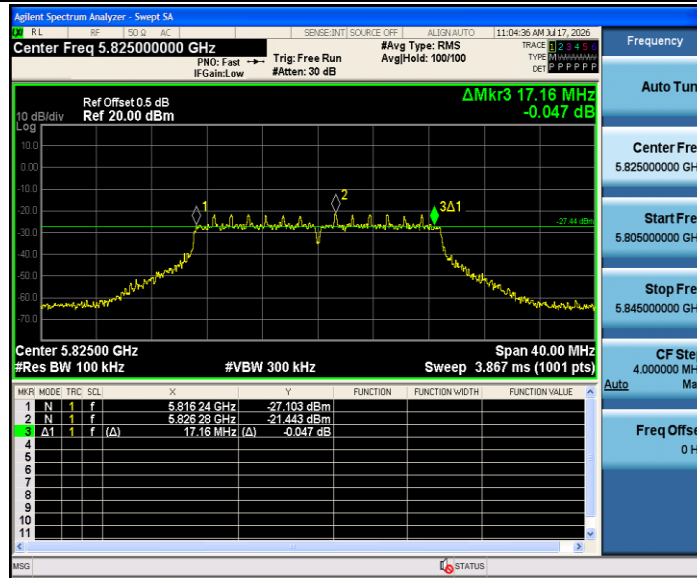
11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825

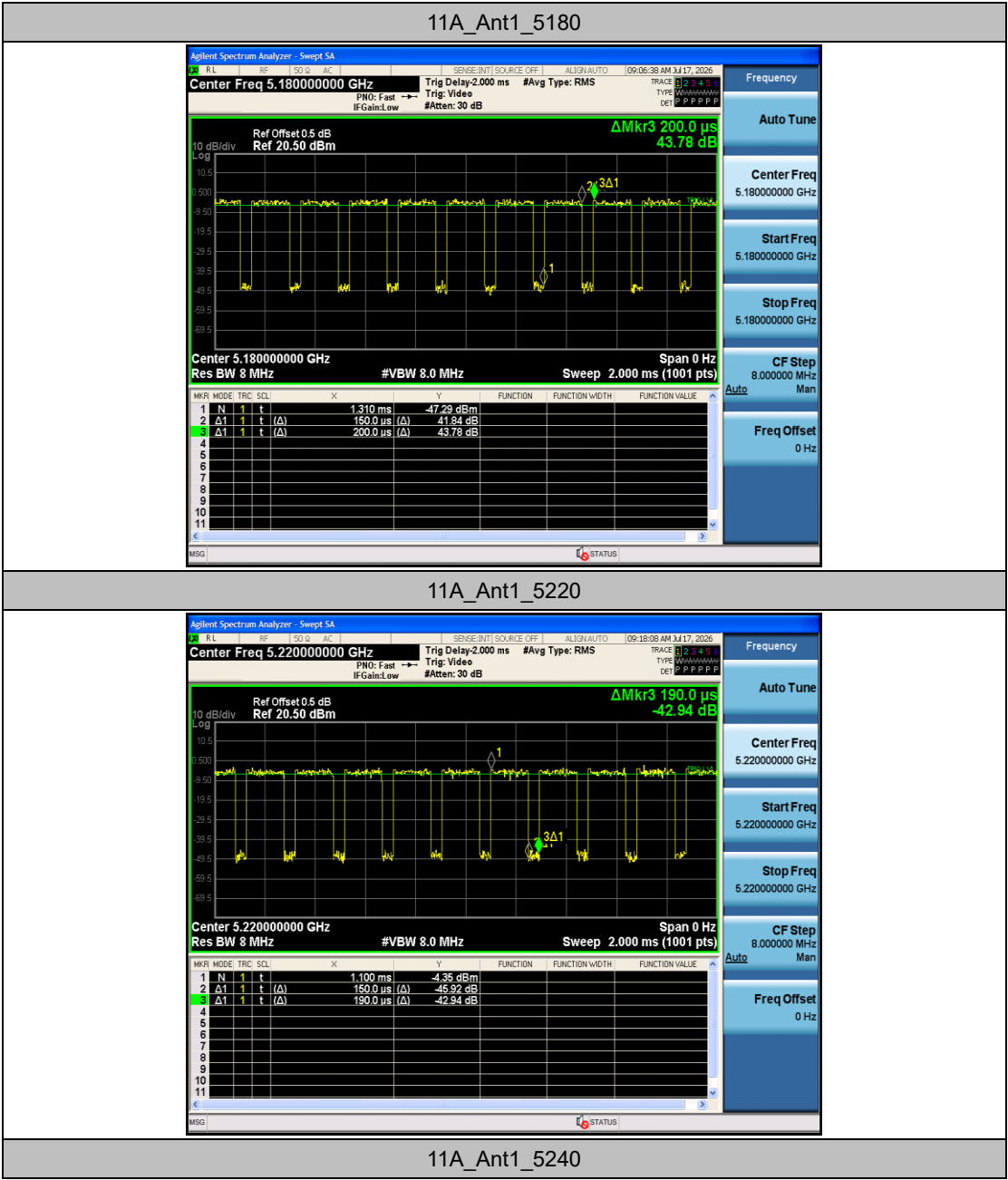


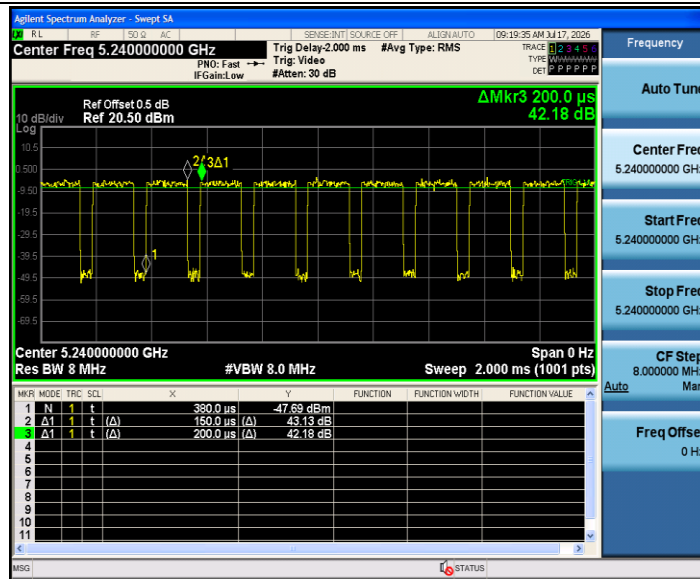
Appendix B: Duty Cycle

Test Result

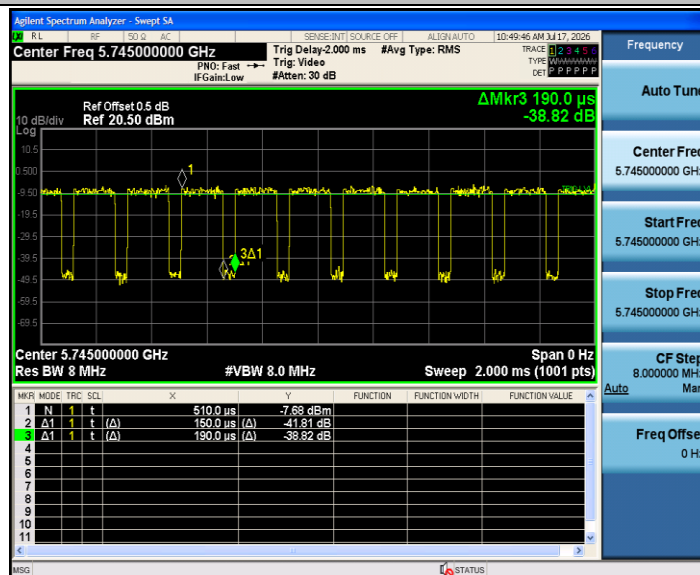
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factor [dB]	Limit	Verdict
11A	Ant1	5180	0.15	0.20	75.00	1.25	---	---
		5220	0.15	0.19	78.95	1.03	---	---
		5240	0.15	0.20	75.00	1.25	---	---
		5745	0.15	0.19	78.95	1.03	---	---
		5785	0.15	0.19	78.95	1.03	---	---
		5825	0.15	0.20	75.00	1.25	---	---
11N20SISO	Ant1	5180	0.17	0.22	77.27	1.12	---	---
		5220	0.18	0.23	78.26	1.06	---	---
		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	---	---

Test Graphs

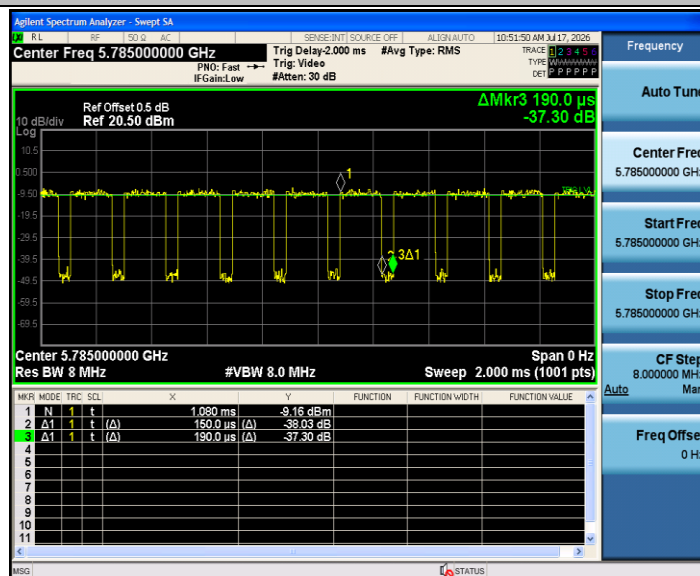




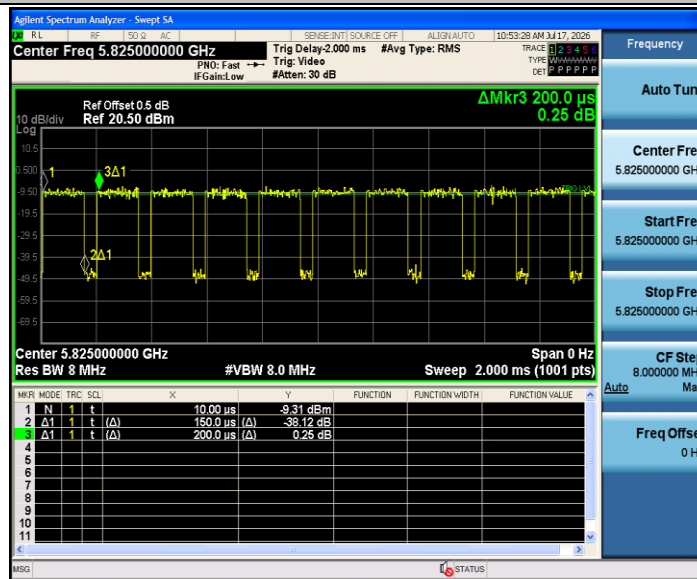
11A_Ant1_5745



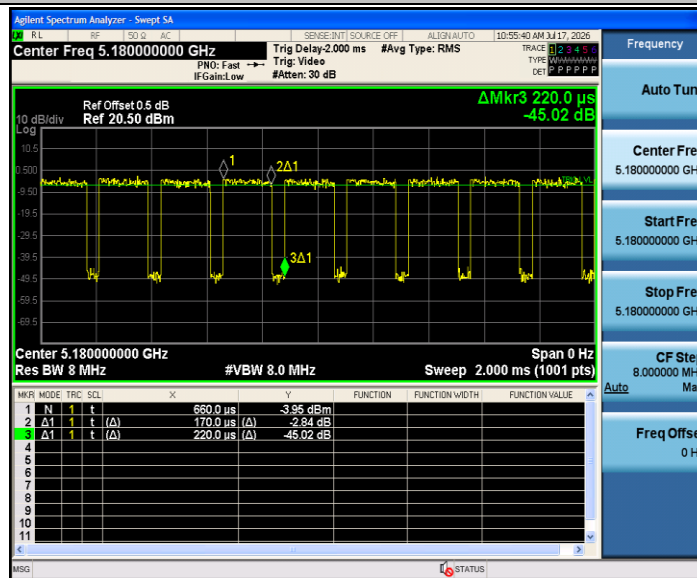
11A_Ant1_5785



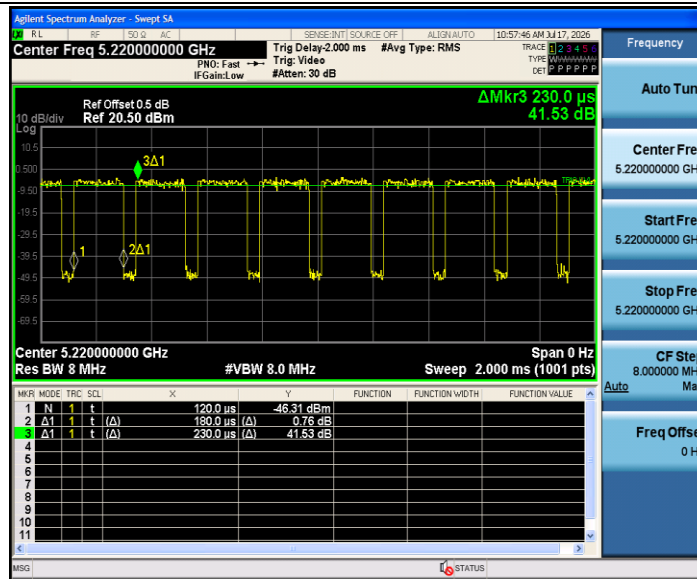
11A_Ant1_5825



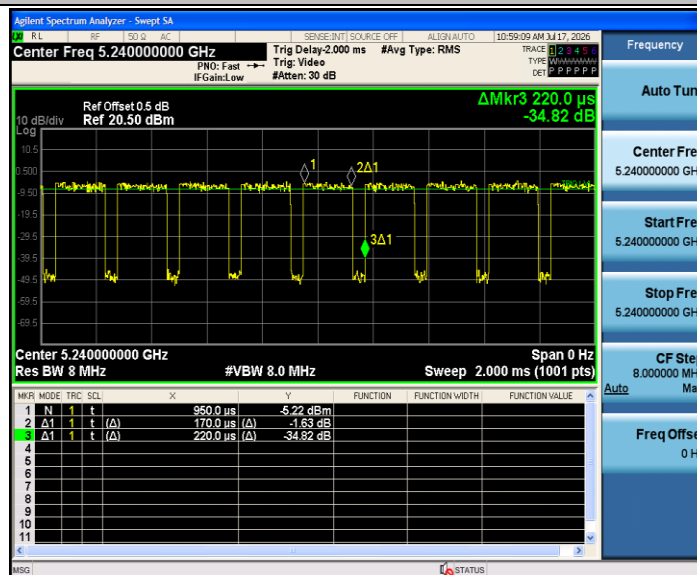
11N20SISO_Ant1_5180



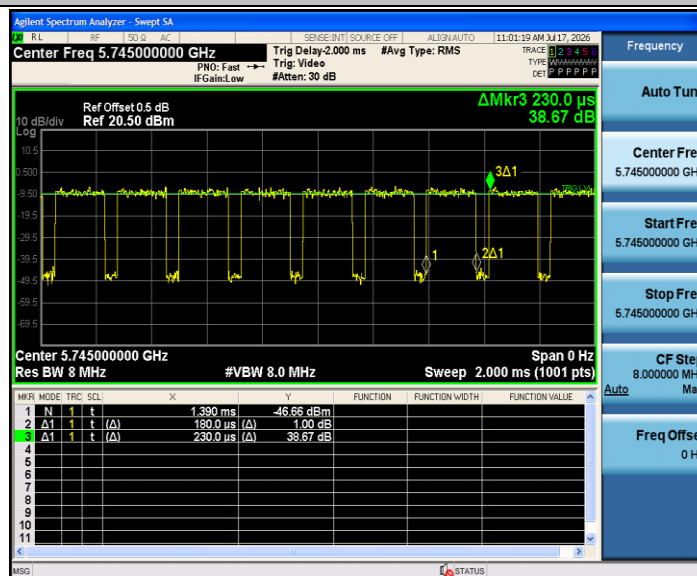
11N20SISO_Ant1_5220



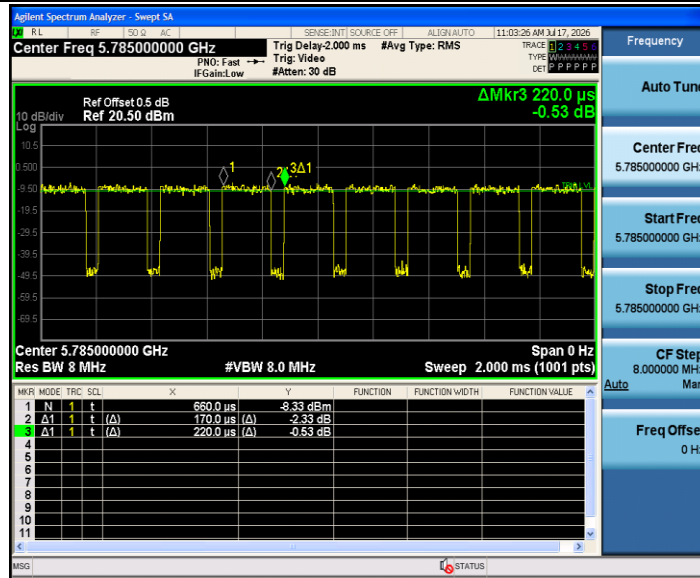
11N20SISO_Ant1_5240



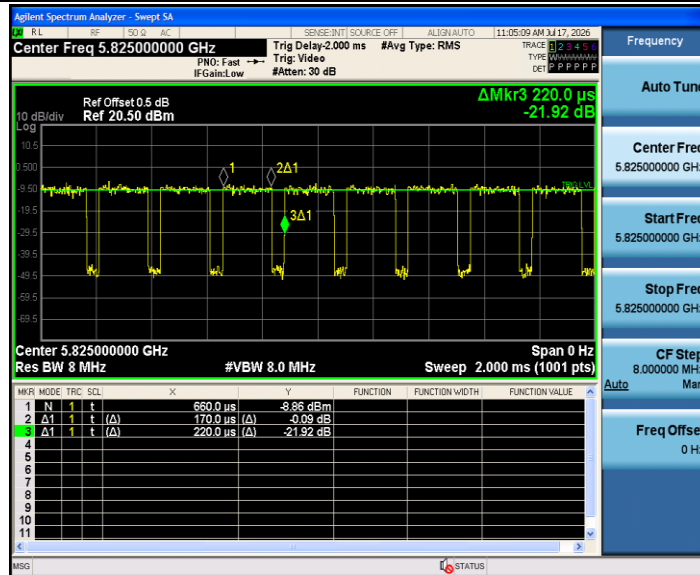
11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



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	5180	-8.05	75.00	1.25	-6.80	≤23.98	PASS
		5220	-8.54	78.95	1.03	-7.51	≤23.98	PASS
		5240	-9.29	75.00	1.25	-8.04	≤23.98	PASS
		5745	-11.13	78.95	1.03	-10.10	≤30.00	PASS
		5785	-11.84	78.95	1.03	-10.81	≤30.00	PASS
		5825	-12.04	75.00	1.25	-10.79	≤30.00	PASS
11N20SI SO	Ant1	5180	-7.98	77.27	1.12	-6.86	≤23.98	PASS
		5220	-8.58	78.26	1.06	-7.52	≤23.98	PASS
		5240	-9.33	77.27	1.12	-8.21	≤23.98	PASS
		5745	-10.97	78.26	1.06	-9.91	≤30.00	PASS
		5785	-11.71	77.27	1.12	-10.59	≤30.00	PASS
		5825	-11.90	77.27	1.12	-10.78	≤30.00	PASS

Result [dBm]= Channel Power[dBm]+ DC Factor [dBm]

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	5180	-17.88	1.25	0.00	-16.63	≤11.00	PASS
		5220	-18.74	1.03	0.00	-17.71	≤11.00	PASS
		5240	-19.36	1.25	0.00	-18.11	≤11.00	PASS
		5745	-26.48	1.03	2.22	-23.23	≤30.00	PASS
		5785	-27.26	1.03	2.22	-24.01	≤30.00	PASS
		5825	-27.62	1.25	2.22	-24.15	≤30.00	PASS
11N20SISO	Ant1	5180	-18.29	1.12	0.00	-17.17	≤11.00	PASS
		5220	-18.84	1.06	0.00	-17.78	≤11.00	PASS
		5240	-19.65	1.12	0.00	-18.53	≤11.00	PASS
		5745	-26.12	1.06	2.22	-22.84	≤30.00	PASS
		5785	-27.14	1.12	2.22	-23.80	≤30.00	PASS
		5825	-27.64	1.12	2.22	-24.30	≤30.00	PASS

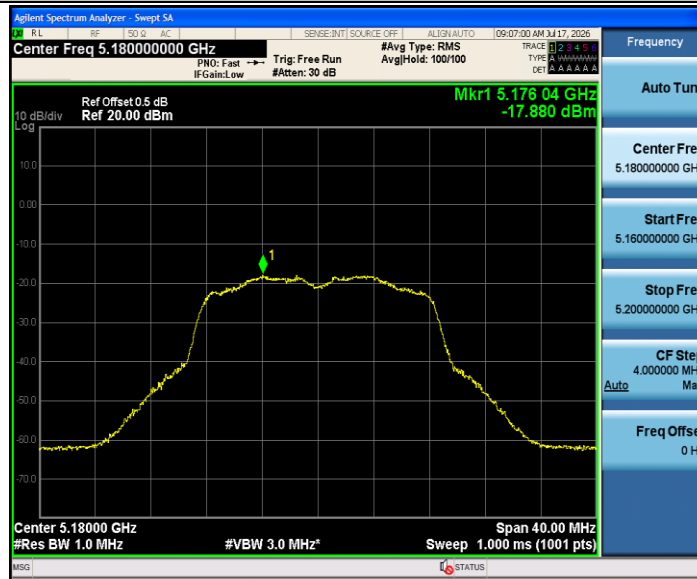
Note: Total Power Spectral Density (dBm/MHz) = Power Spectral Density (dBm/MHz) + Duty Factor (dB)

Remark: P.S.D(dBm/500KHz) = P.S.D(dBm/300KHz) + 10 log (500 kHz/300KHz) + Duty factor.

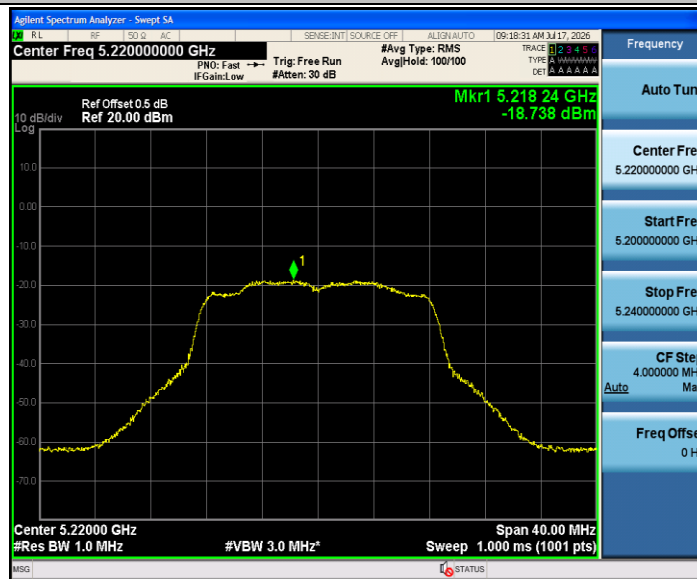
The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

Test Graphs

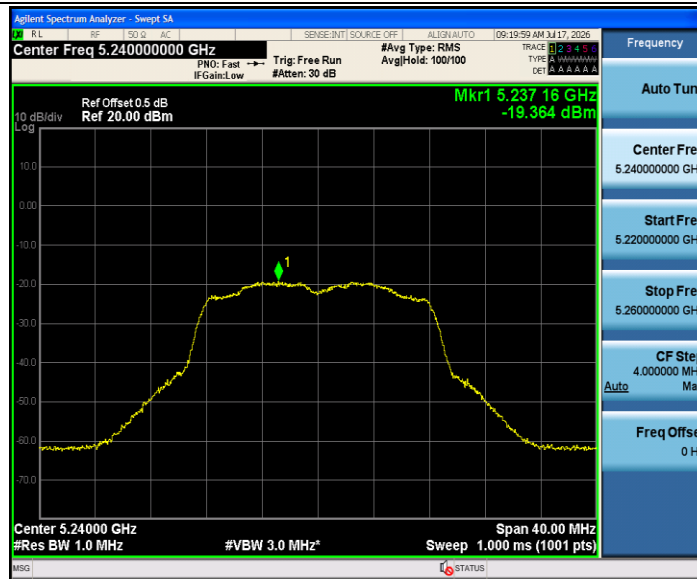
11A_Ant1_5180



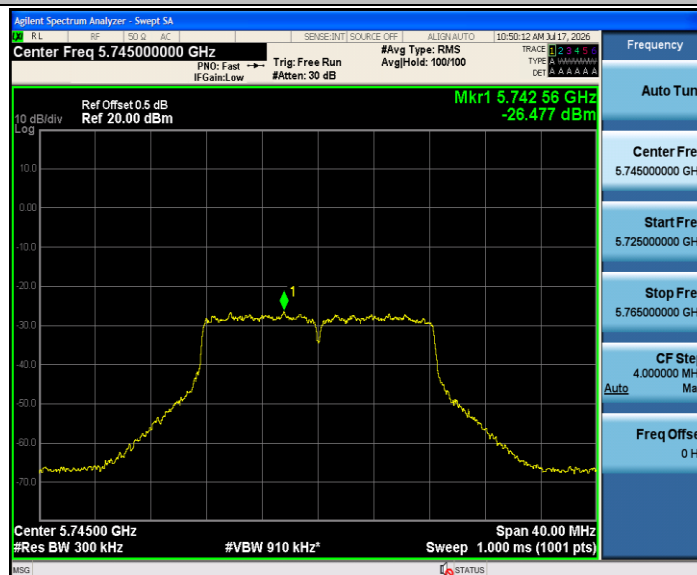
11A_Ant1_5220



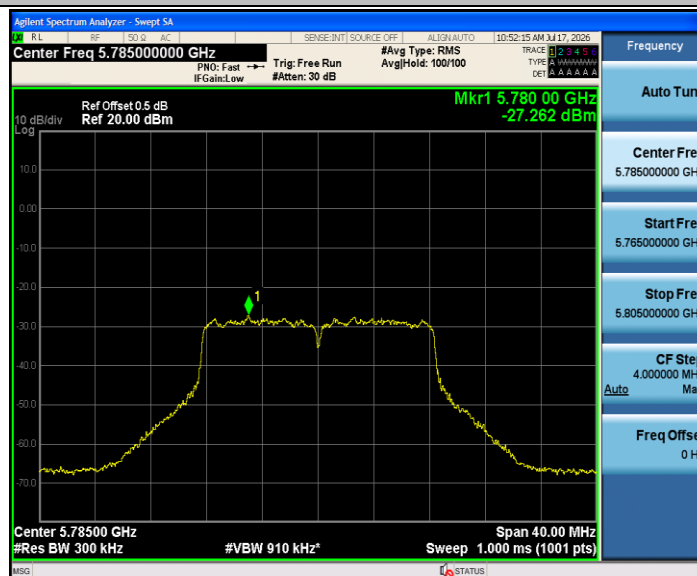
11A_Ant1_5240



11A_Ant1_5745



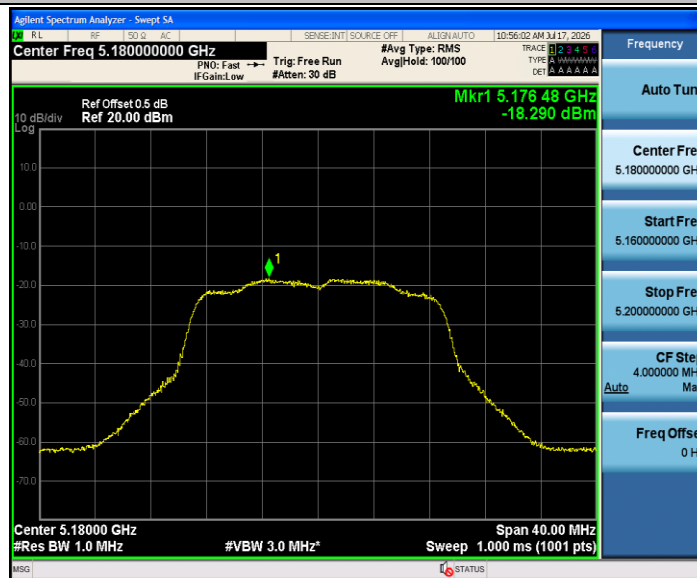
11A_Ant1_5785



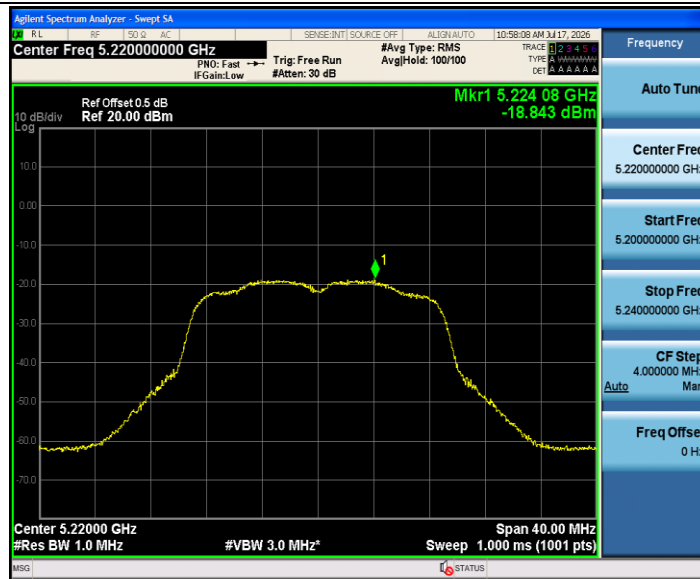
11A_Ant1_5825



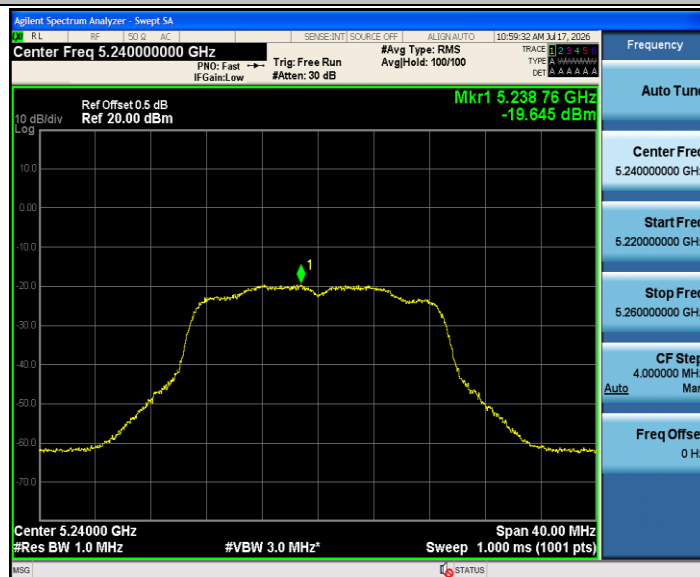
11N20SISO_Ant1_5180



11N20SISO_Ant1_5220



11N20SISO_Ant1_5240



11N20SISO_Ant1_5745

