

FCC Appendix RF Test Data for 5GWIFI

FCC ID : 2BP5V-ZK501

Company : Dong Guan Zhen Ke Technology Co., LTD

EUT : Weather Station

Model Number : WS-SA8-PLUS

Report No. : CTA26082701103

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	23.960	5168.040	5192.000	---	---
		5200	23.800	5188.120	5211.920	---	---
		5240	25.800	5227.360	5253.160	---	---
		5260	26.160	5246.760	5272.920	---	---
		5280	25.480	5267.160	5292.640	---	---
		5320	23.600	5308.280	5331.880	---	---
		5500	24.480	5487.960	5512.440	---	---
		5580	23.040	5568.640	5591.680	---	---
		5700	23.600	5687.800	5711.400	---	---
		5745	24.880	5732.400	5757.280	---	---
		5785	24.360	5773.000	5797.360	---	---
		5825	24.400	5812.560	5836.960	---	---
11N20SISO	Ant1	5180	23.480	5168.480	5191.960	---	---
		5200	24.240	5187.840	5212.080	---	---
		5240	23.960	5227.840	5251.800	---	---
		5260	24.320	5247.640	5271.960	---	---
		5280	24.160	5267.920	5292.080	---	---
		5320	25.000	5307.160	5332.160	---	---
		5500	24.440	5487.720	5512.160	---	---
		5580	24.240	5568.200	5592.440	---	---
		5700	24.000	5687.760	5711.760	---	---
		5745	24.600	5732.720	5757.320	---	---
		5785	24.360	5772.880	5797.240	---	---
		5825	25.560	5812.440	5838.000	---	---
11N40SISO	Ant1	5190	44.240	5167.520	5211.760	---	---
		5230	43.520	5208.320	5251.840	---	---
		5270	43.440	5248.480	5291.920	---	---
		5310	42.640	5288.720	5331.360	---	---
		5510	21.920	5528.080	5550.000	---	---
		5550	43.920	5528.560	5572.480	---	---
		5670	43.280	5648.320	5691.600	---	---
		5755	44.560	5733.080	5777.640	---	---
		5795	43.920	5773.160	5817.080	---	---

Test Graphs

11A_Ant1_5180



11A_Ant1_5200



11A_Ant1_5240



11A_Ant1_5260



11A_Ant1_5280





11A_Ant1_5700



11A_Ant1_5745



11A_Ant1_5785



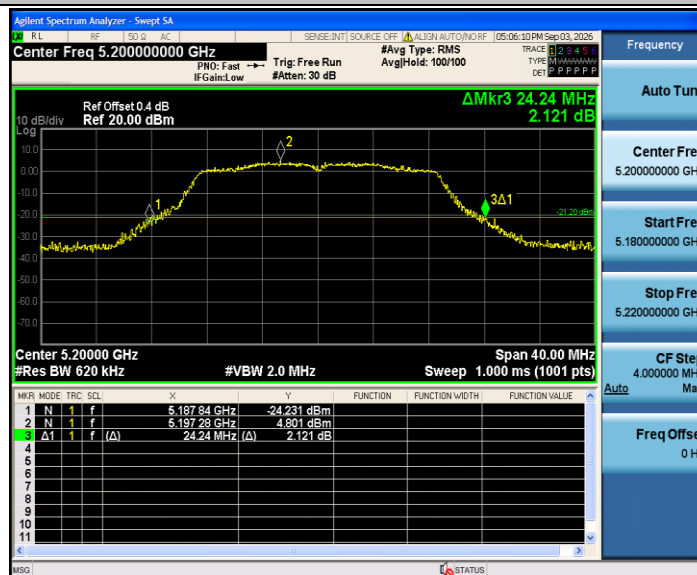
11A_Ant1_5825



11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



11N20SISO_Ant1_5260



11N20SISO_Ant1_5280



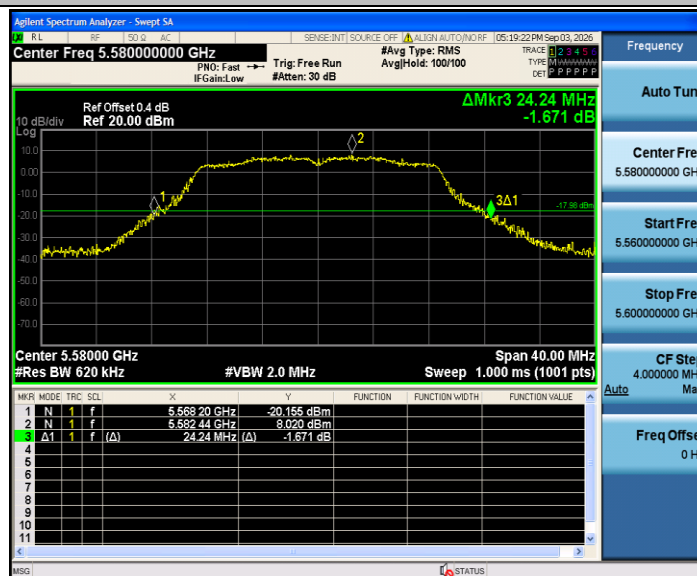
11N20SISO_Ant1_5320



11N20SISO_Ant1_5500



11N20SISO_Ant1_5580



11N20SISO_Ant1_5700



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11N40SISO_Ant1_5270



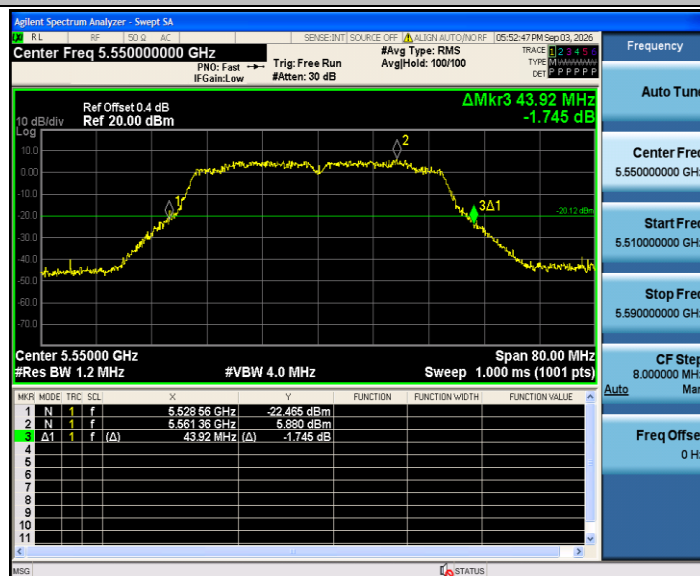
11N40SISO_Ant1_5310



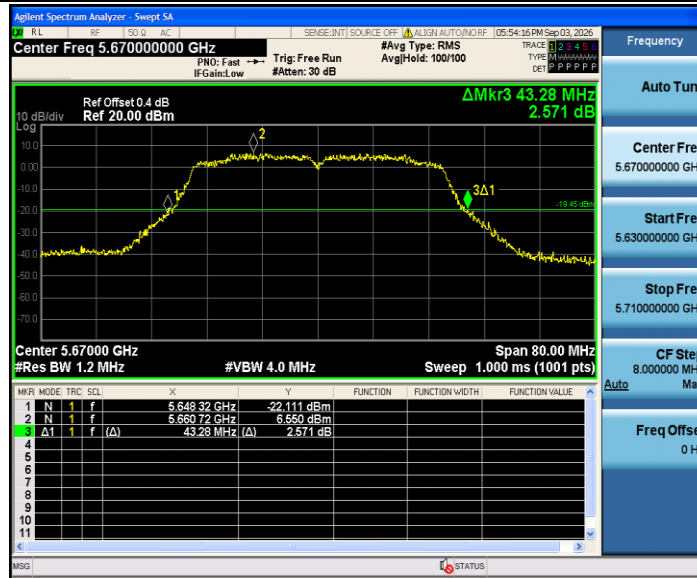
11N40SISO_Ant1_5510



11N40SISO_Ant1_5550



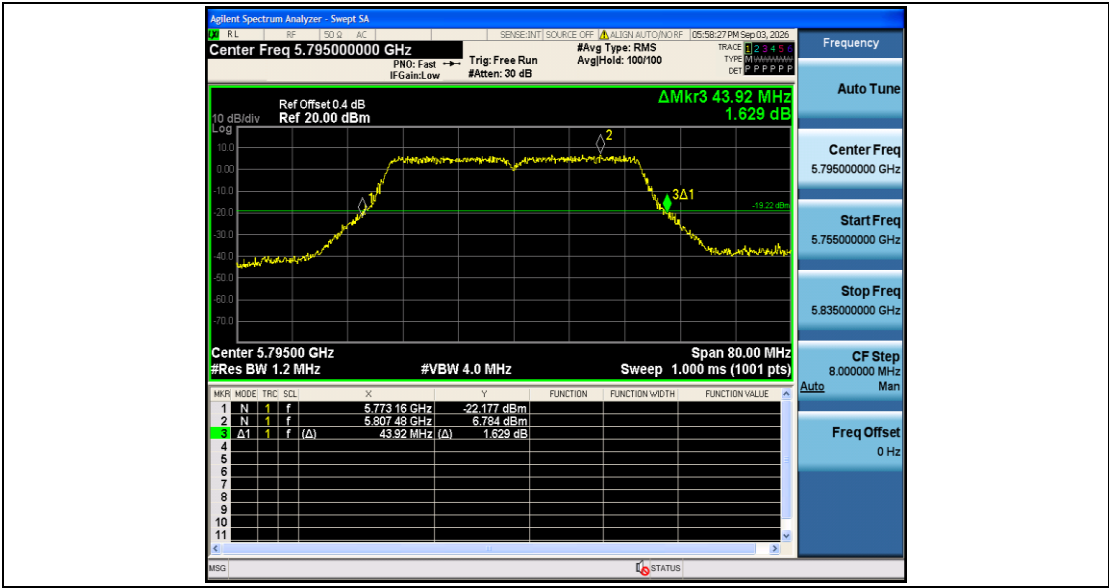
11N40SISO_Ant1_5670



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



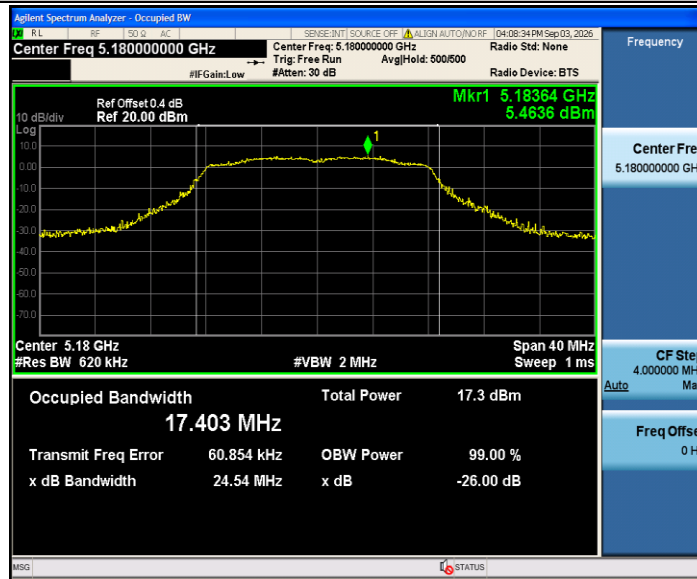
Appendix A2: Occupied channel bandwidth

Test Result

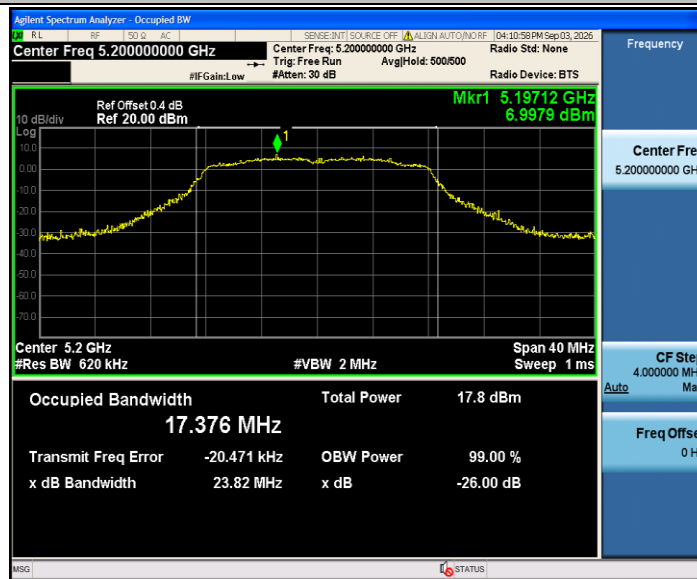
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.403	5171.3594	5188.7624	---	---
		5200	17.376	5191.2915	5208.6675	---	---
		5240	17.737	5231.0937	5248.8307	---	---
		5260	17.650	5251.1675	5268.8175	---	---
		5280	17.619	5271.2246	5288.8436	---	---
		5320	17.443	5311.2700	5328.7130	---	---
		5500	17.440	5491.3393	5508.7793	---	---
		5580	17.342	5571.4222	5588.7642	---	---
		5700	17.271	5691.3330	5708.6040	---	---
		5745	17.753	5736.1005	5753.8535	---	---
		5785	17.741	5776.1322	5793.8732	---	---
		5825	17.718	5816.1155	5833.8335	---	---
11N20SISO	Ant1	5180	18.243	5170.9469	5189.1899	---	---
		5200	18.306	5190.8565	5209.1625	---	---
		5240	18.384	5230.7948	5249.1788	---	---
		5260	18.387	5250.8143	5269.2013	---	---
		5280	18.351	5270.8118	5289.1628	---	---
		5320	18.339	5310.8761	5329.2151	---	---
		5500	18.331	5490.9034	5509.2344	---	---
		5580	18.297	5570.9422	5589.2392	---	---
		5700	18.286	5690.8319	5709.1179	---	---
		5745	18.714	5735.6332	5754.3472	---	---
		5785	18.721	5775.6495	5794.3705	---	---
		5825	18.722	5815.5957	5834.3177	---	---
11N40SISO	Ant1	5190	36.422	5171.8402	5208.2622	---	---
		5230	36.278	5211.9623	5248.2403	---	---
		5270	36.387	5251.9333	5288.3203	---	---
		5310	36.354	5291.9332	5328.2872	---	---
		5510	36.319	5491.9249	5528.2439	---	---
		5550	36.297	5531.9606	5568.2576	---	---
		5670	36.263	5651.9047	5688.1677	---	---
		5755	37.011	5736.5816	5773.5926	---	---
		5795	36.863	5776.6607	5813.5237	---	---

Test Graphs

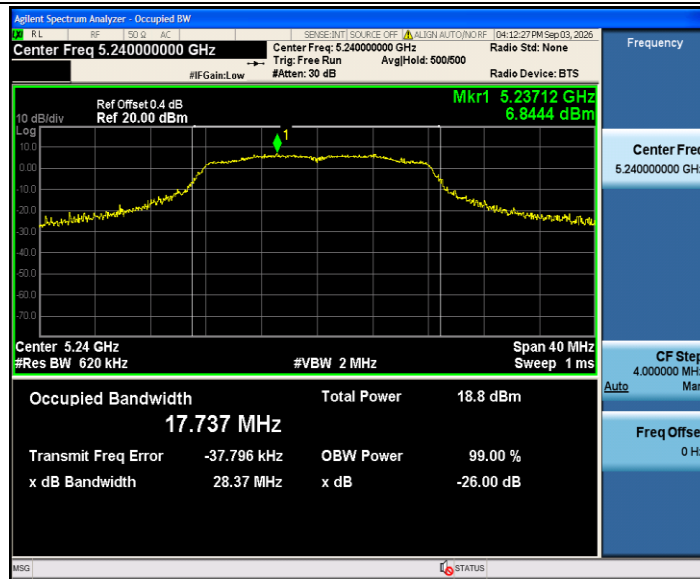
11A_Ant1_5180



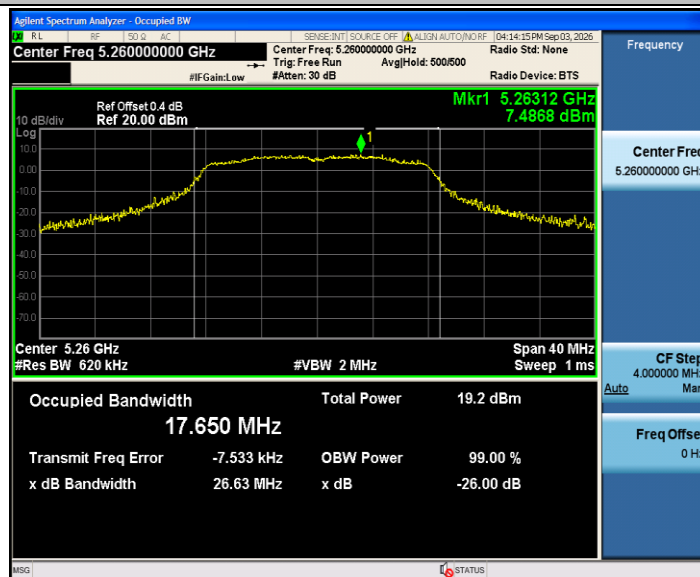
11A_Ant1_5200



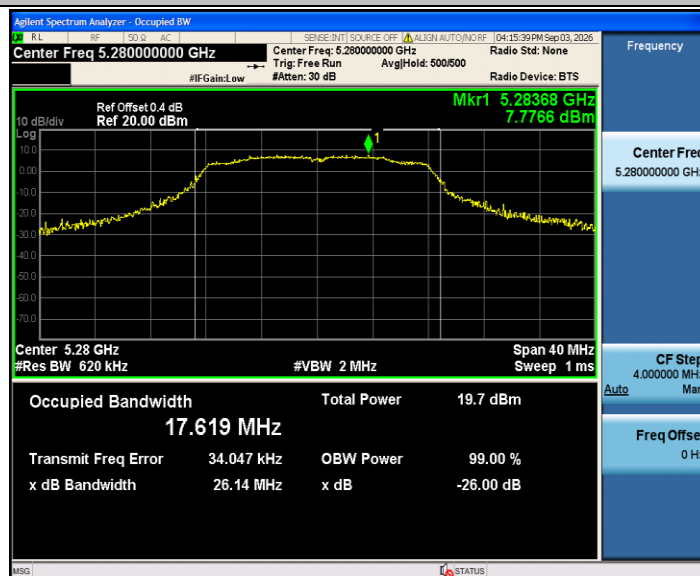
11A_Ant1_5240



11A_Ant1_5260



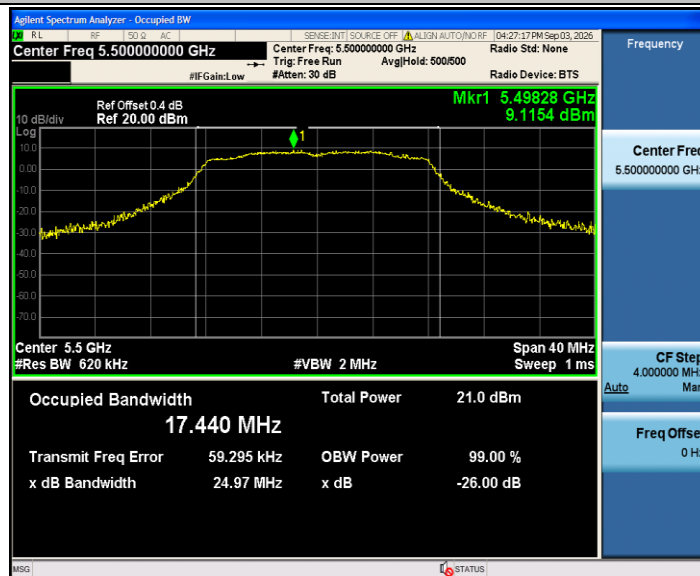
11A_Ant1_5280



11A_Ant1_5320



11A_Ant1_5500



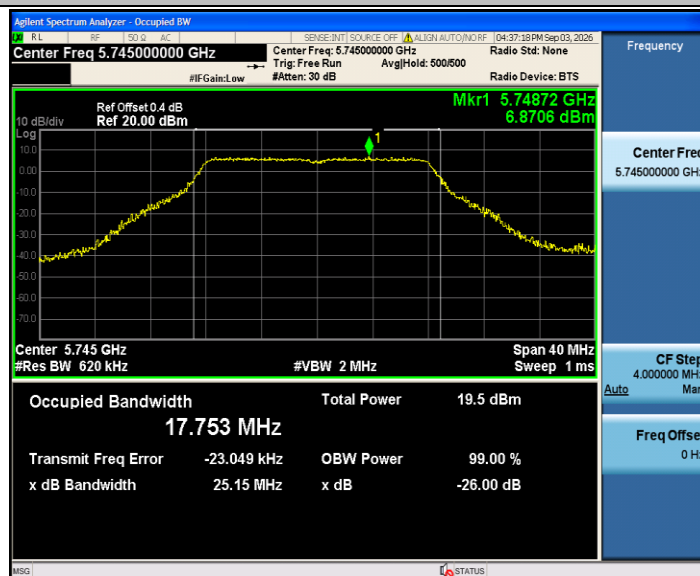
11A_Ant1_5580



11A_Ant1_5700



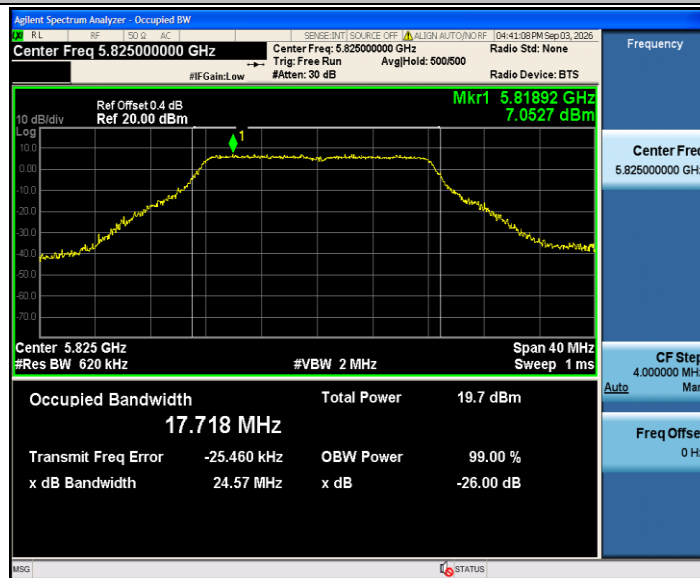
11A_Ant1_5745



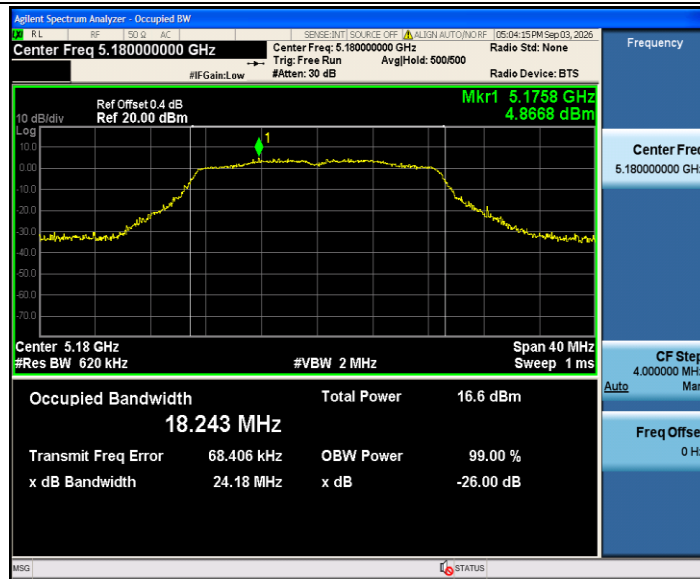
11A_Ant1_5785



11A_Ant1_5825



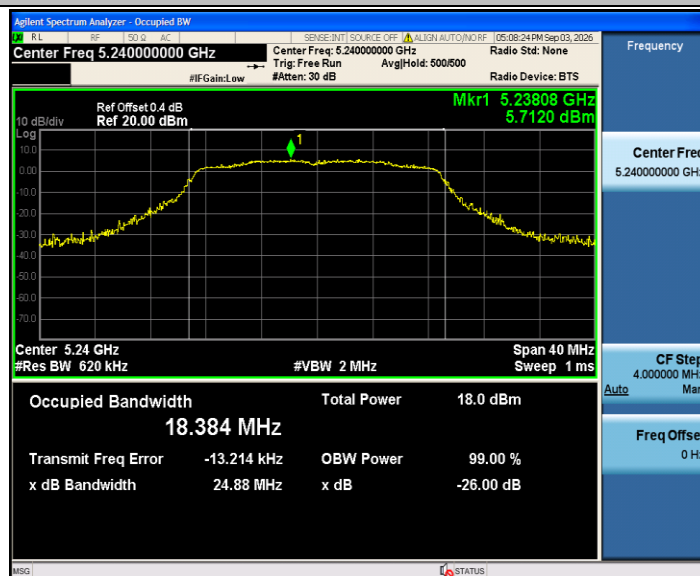
11N20SISO_Ant1_5180



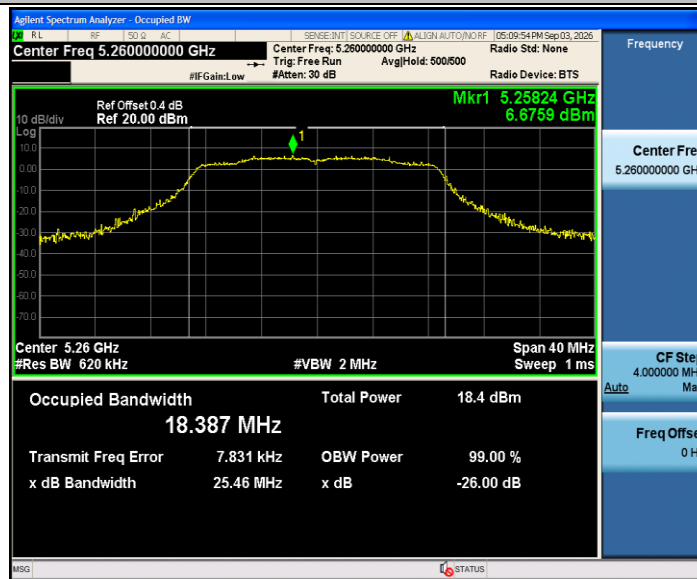
11N20SISO_Ant1_5200



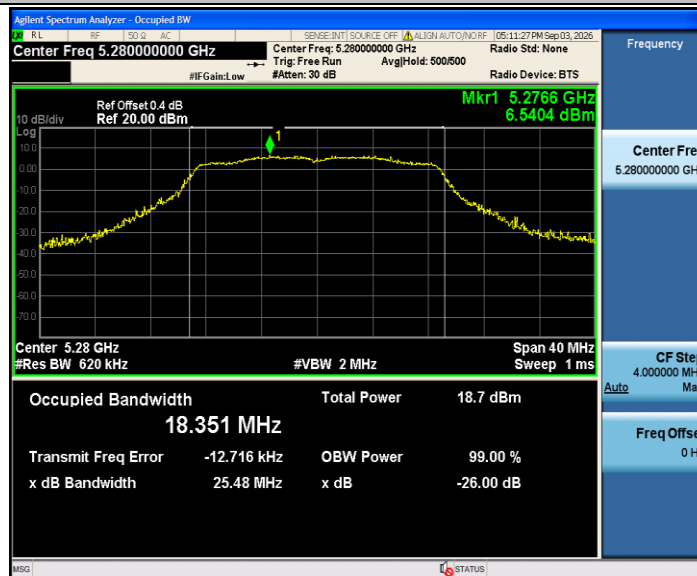
11N20SISO_Ant1_5240



11N20SISO_Ant1_5260



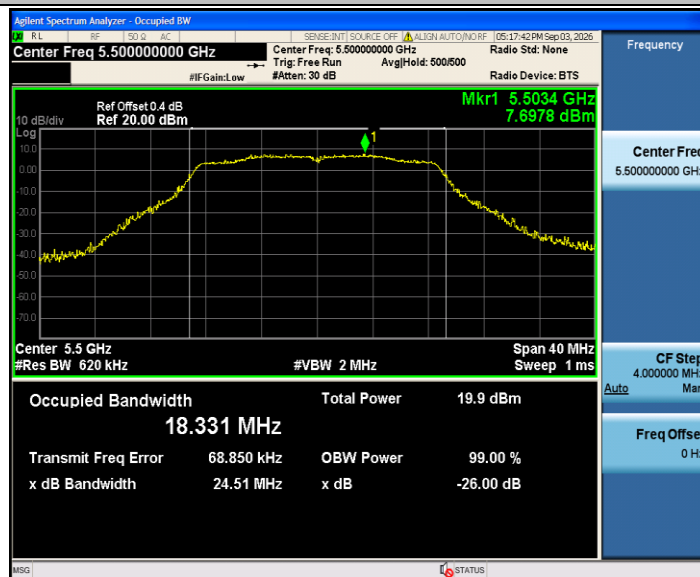
11N20SISO_Ant1_5280



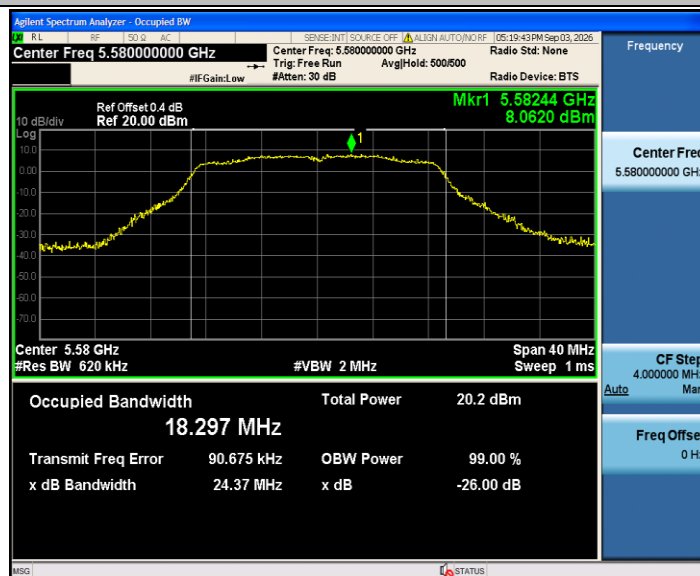
11N20SISO_Ant1_5320



11N20SISO_Ant1_5500



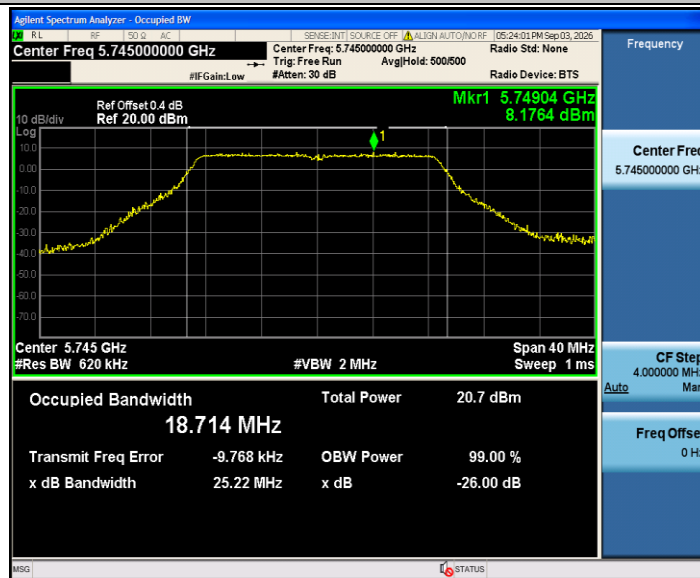
11N20SISO_Ant1_5580



11N20SISO_Ant1_5700



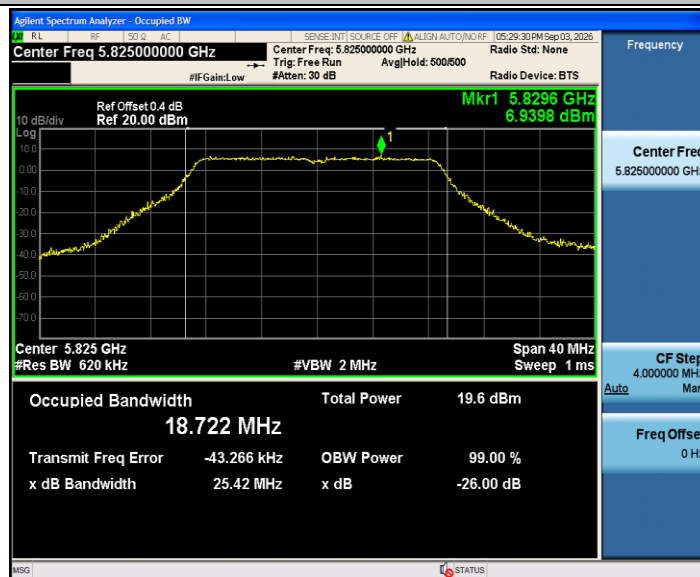
11N20SISO_Ant1_5745



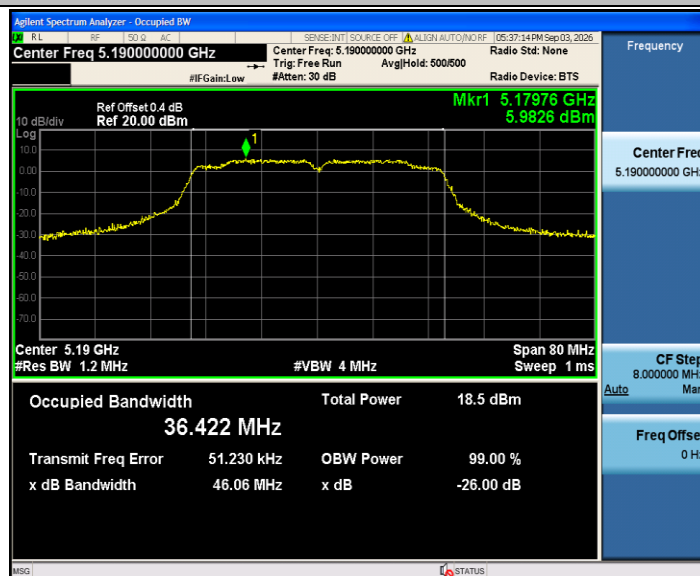
11N20SISO_Ant1_5785



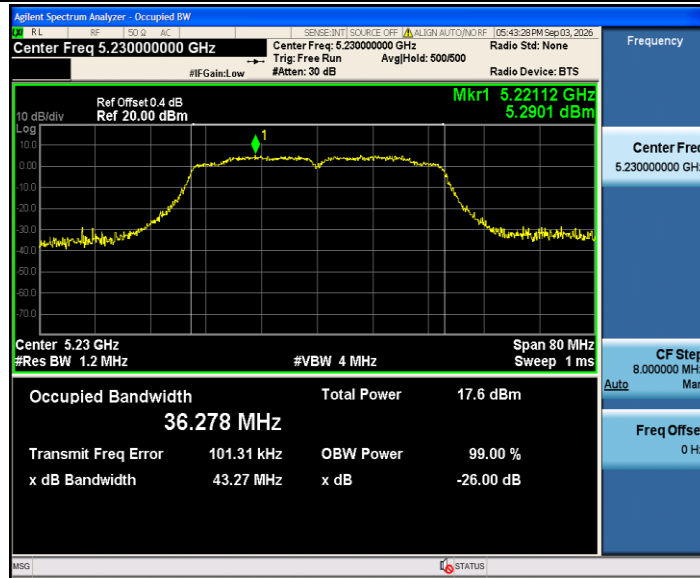
11N20SISO_Ant1_5825



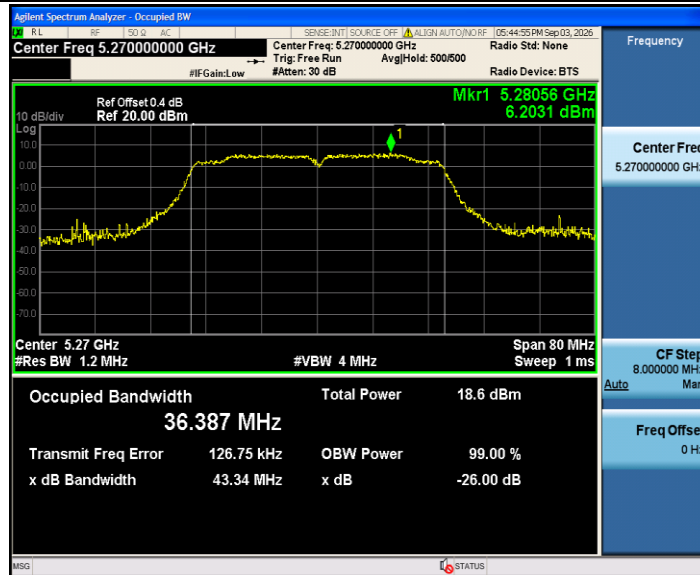
11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



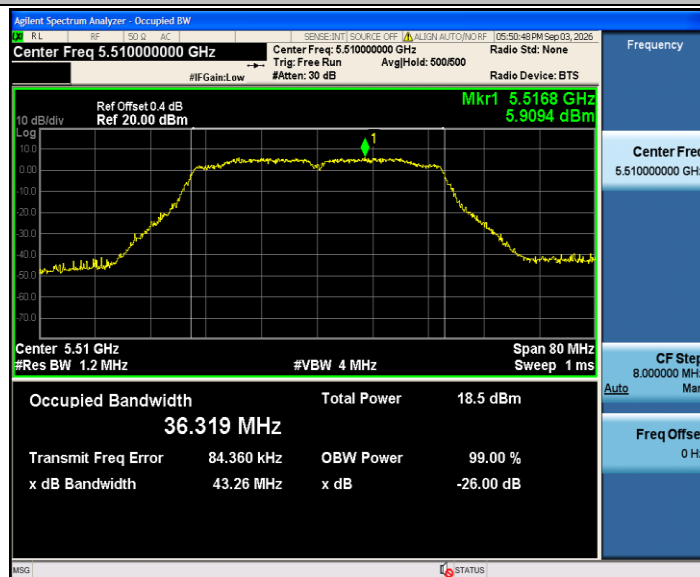
11N40SISO_Ant1_5270



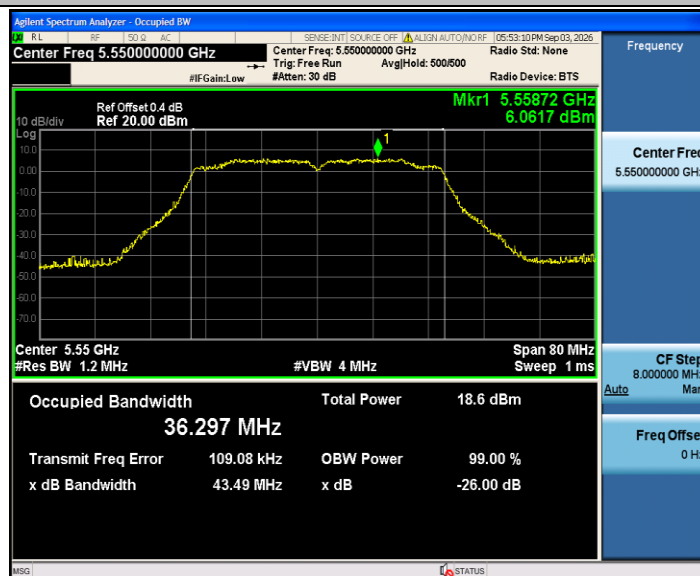
11N40SISO_Ant1_5310



11N40SISO_Ant1_5510



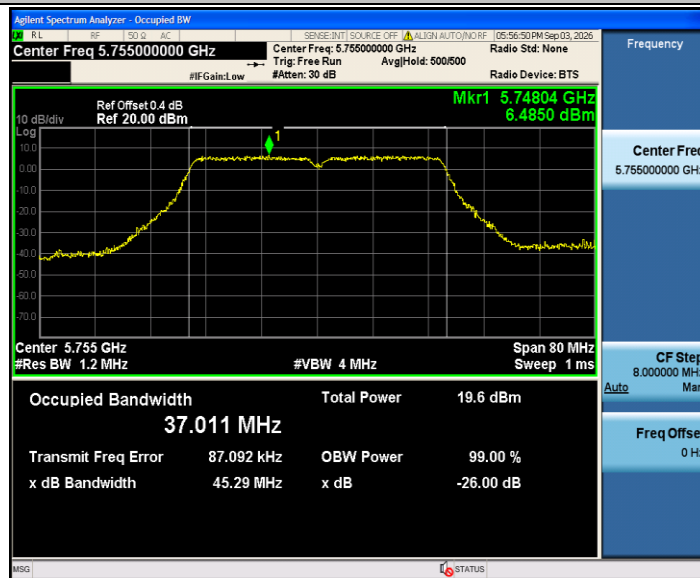
11N40SISO_Ant1_5550



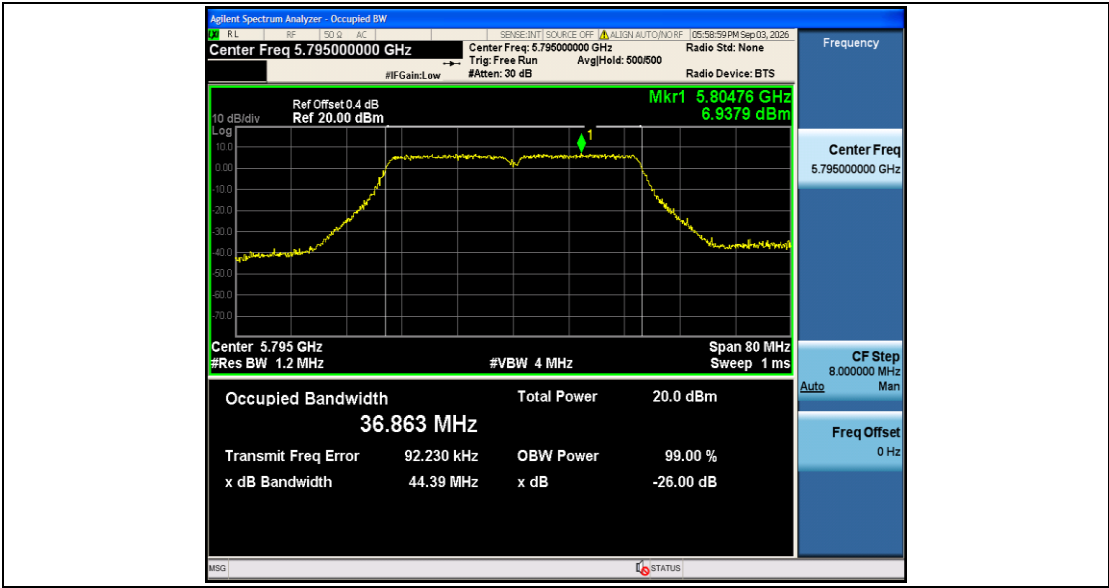
11N40SISO_Ant1_5670



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	16.320	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	17.520	5736.240	5753.760	0.5	PASS
		5785	17.600	5776.200	5793.800	0.5	PASS
		5825	17.600	5816.200	5833.800	0.5	PASS
11N40SISO	Ant1	5755	36.320	5736.840	5773.160	0.5	PASS
		5795	36.320	5776.840	5813.160	0.5	PASS