

FCC Appendix RF Test Data for 5GWIFI

FCC ID : 2BP5V-ZK301

Company : Dong Guan Zhen Ke Technology Co., LTD

EUT : Weather Station

Model Number : WS-SA9

Report No. : CTA26082700903

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	22.920	5168.840	5191.760	---	---
		5200	23.240	5188.520	5211.760	---	---
		5240	24.280	5228.080	5252.360	---	---
		5260	23.920	5248.000	5271.920	---	---
		5280	23.640	5268.200	5291.840	---	---
		5320	23.360	5308.400	5331.760	---	---
		5500	23.800	5488.200	5512.000	---	---
		5580	23.560	5568.320	5591.880	---	---
		5700	23.120	5688.400	5711.520	---	---
		5745	24.200	5733.000	5757.200	---	---
		5785	24.120	5772.920	5797.040	---	---
		5825	24.520	5812.560	5837.080	---	---
11N20SISO	Ant1	5180	24.240	5168.280	5192.520	---	---
		5200	24.360	5188.080	5212.440	---	---
		5240	23.720	5228.040	5251.760	---	---
		5260	23.080	5248.360	5271.440	---	---
		5280	23.320	5268.400	5291.720	---	---
		5320	23.880	5307.760	5331.640	---	---
		5500	24.000	5488.120	5512.120	---	---
		5580	24.200	5567.880	5592.080	---	---
		5700	23.560	5687.960	5711.520	---	---
		5745	25.080	5732.480	5757.560	---	---
		5785	24.480	5772.800	5797.280	---	---
		5825	24.760	5812.760	5837.520	---	---
11N40SISO	Ant1	5190	43.600	5168.160	5211.760	---	---
		5230	43.200	5208.720	5251.920	---	---
		5270	43.120	5248.800	5291.920	---	---
		5310	43.120	5288.560	5331.680	---	---
		5510	44.080	5488.640	5532.720	---	---
		5550	43.840	5528.400	5572.240	---	---
		5670	43.040	5648.640	5691.680	---	---
		5755	45.120	5733.160	5778.280	---	---
		5795	44.560	5773.480	5818.040	---	---

Test Graphs





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



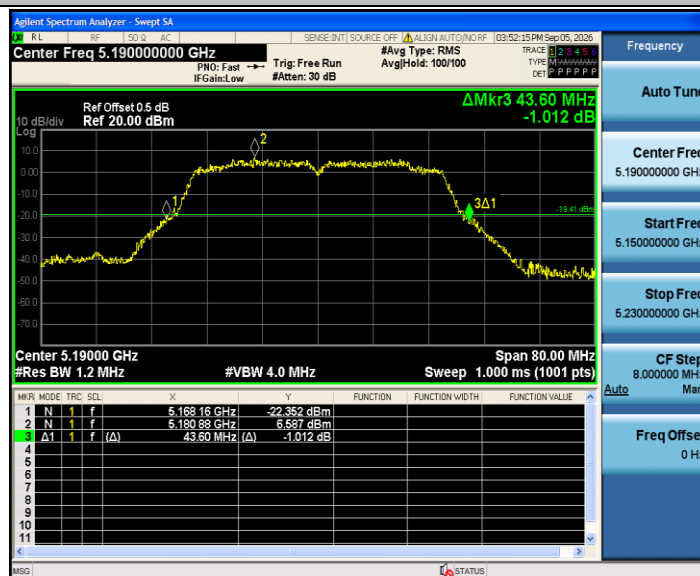
11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



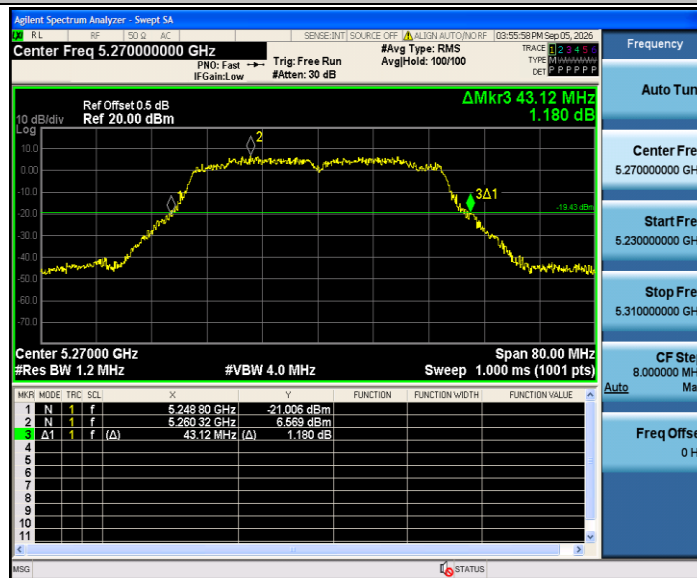
11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11N40SISO_Ant1_5270



11N40SISO_Ant1_5310



11N40SISO_Ant1_5510



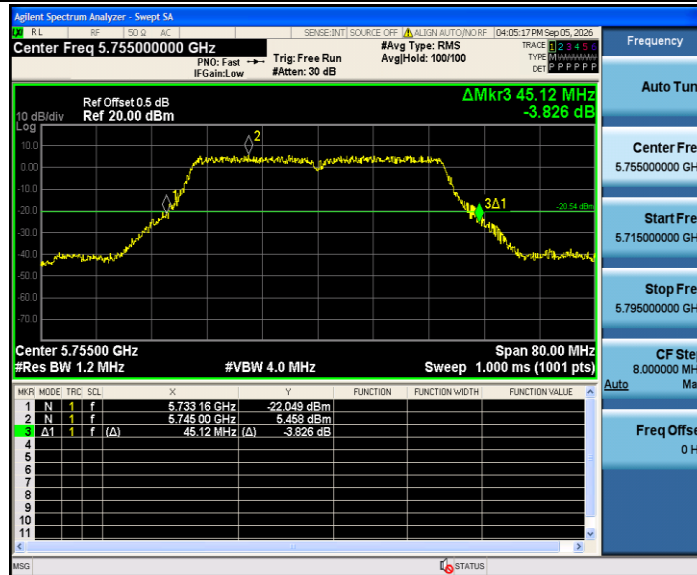
11N40SISO_Ant1_5550



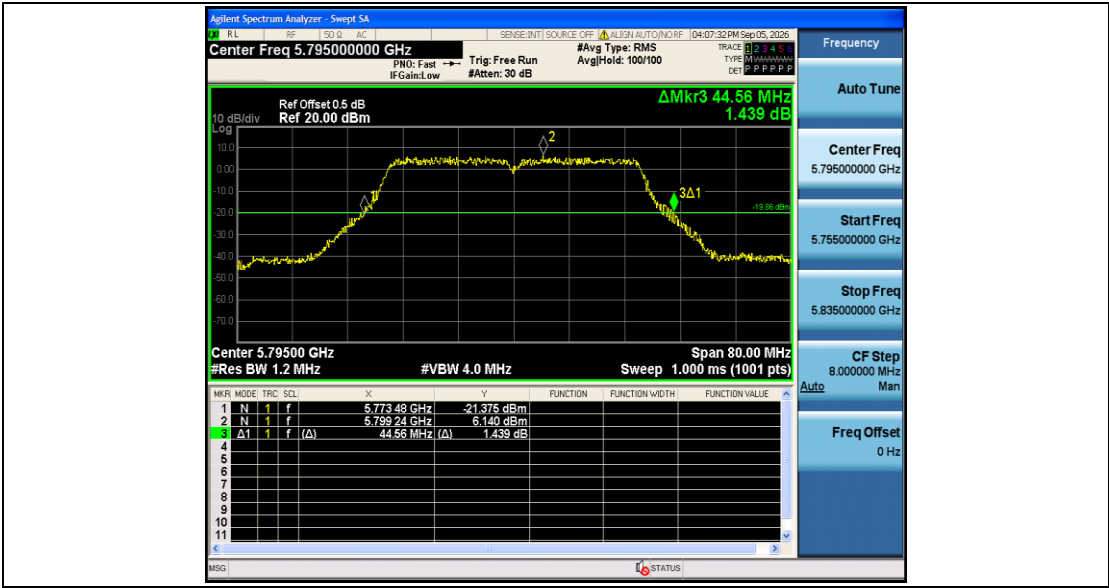
11N40SISO_Ant1_5670



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



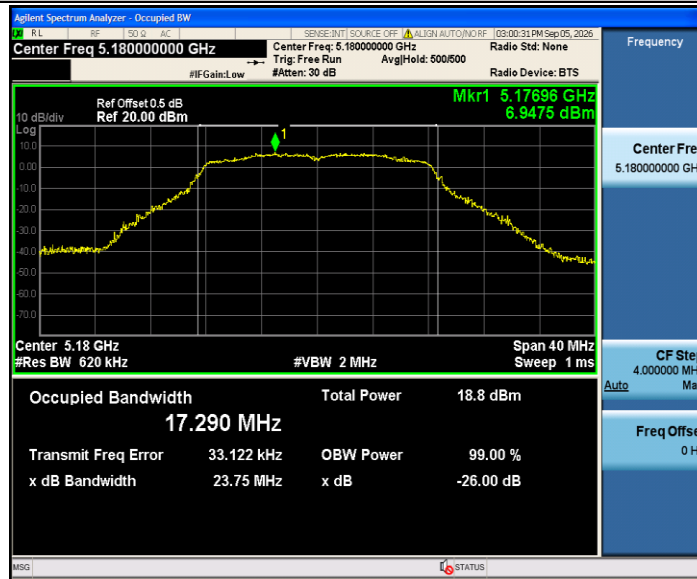
Appendix A2: Occupied channel bandwidth

Test Result

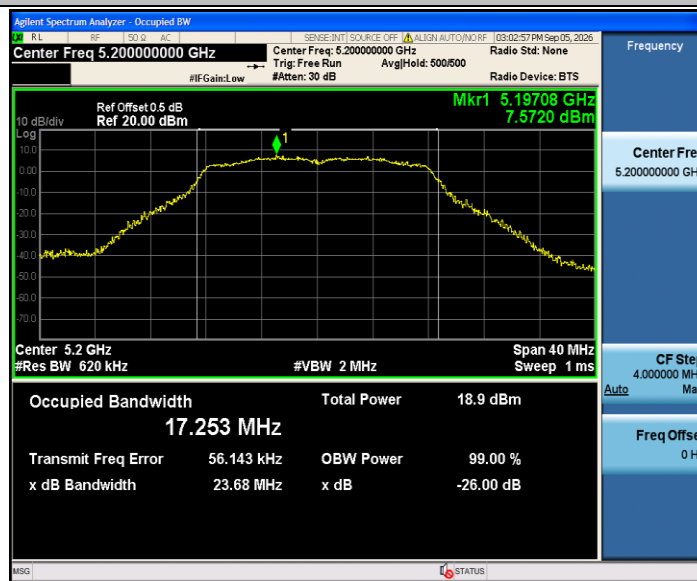
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.290	5171.3881	5188.6781	---	---
		5200	17.253	5191.4296	5208.6826	---	---
		5240	17.280	5231.3661	5248.6461	---	---
		5260	17.189	5251.4097	5268.5987	---	---
		5280	17.270	5271.3596	5288.6296	---	---
		5320	17.228	5311.4293	5328.6573	---	---
		5500	17.306	5491.4121	5508.7181	---	---
		5580	17.230	5571.4494	5588.6794	---	---
		5700	17.189	5691.3645	5708.5535	---	---
		5745	17.637	5736.1796	5753.8166	---	---
		5785	17.613	5776.2192	5793.8322	---	---
		5825	17.615	5816.2060	5833.8210	---	---
11N20SISO	Ant1	5180	18.331	5170.8453	5189.1763	---	---
		5200	18.278	5190.8570	5209.1350	---	---
		5240	18.244	5230.8567	5249.1007	---	---
		5260	18.266	5250.8680	5269.1340	---	---
		5280	18.263	5270.8491	5289.1121	---	---
		5320	18.186	5310.8960	5329.0820	---	---
		5500	18.289	5490.8811	5509.1701	---	---
		5580	18.243	5570.9194	5589.1624	---	---
		5700	18.212	5690.8736	5709.0856	---	---
		5745	18.676	5735.6195	5754.2955	---	---
		5785	18.616	5775.6861	5794.3021	---	---
		5825	18.664	5815.6622	5834.3262	---	---
11N40SISO	Ant1	5190	36.304	5171.8869	5208.1909	---	---
		5230	36.294	5211.9238	5248.2178	---	---
		5270	36.245	5251.9300	5288.1750	---	---
		5310	36.254	5291.9410	5328.1950	---	---
		5510	36.342	5491.9684	5528.3104	---	---
		5550	36.292	5531.9864	5568.2784	---	---
		5670	36.328	5651.9153	5688.2433	---	---
		5755	36.939	5736.6180	5773.5570	---	---
		5795	36.945	5776.6349	5813.5799	---	---

Test Graphs

11A_Ant1_5180



11A_Ant1_5200



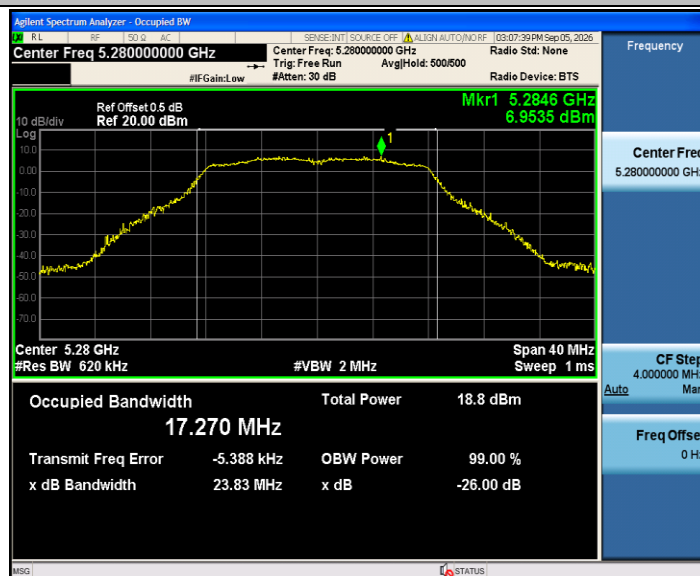
11A_Ant1_5240



11A_Ant1_5260



11A_Ant1_5280



11A_Ant1_5320



11A_Ant1_5500



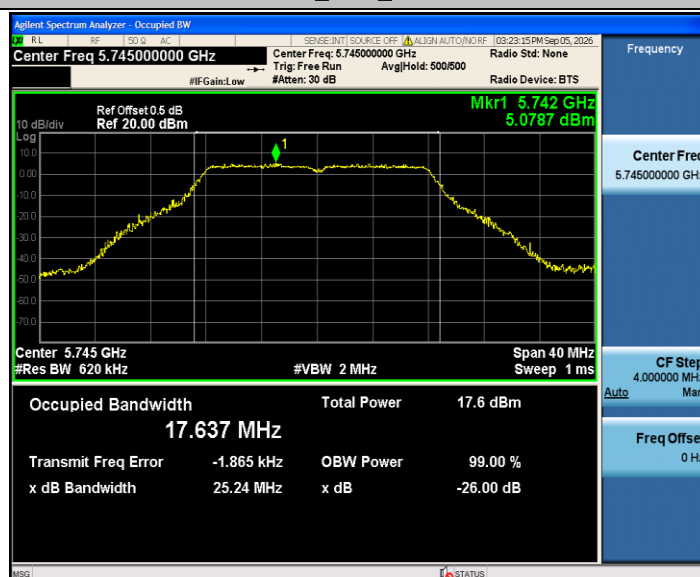
11A_Ant1_5580



11A_Ant1_5700



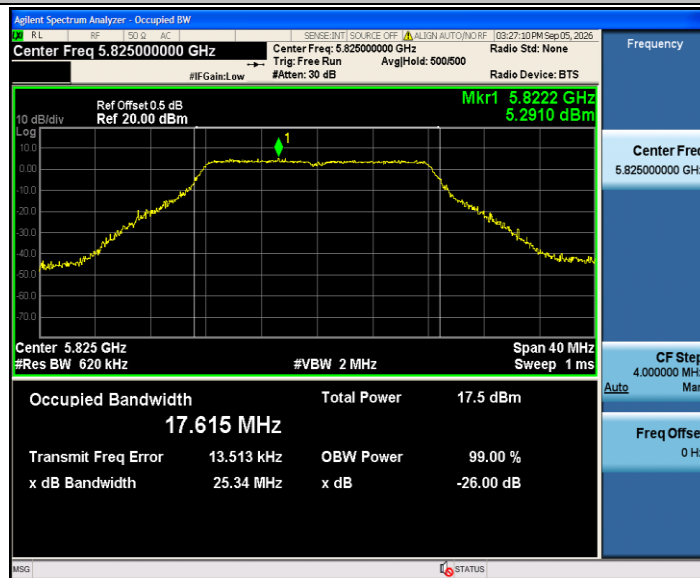
11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



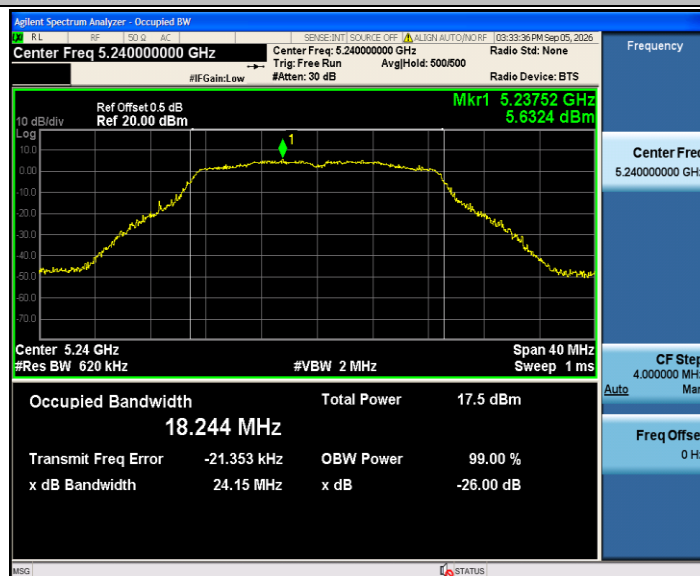
11N20SISO_Ant1_5180



11N20SISO_Ant1_5200



11N20SISO_Ant1_5240



11N20SISO_Ant1_5260



11N20SISO_Ant1_5280



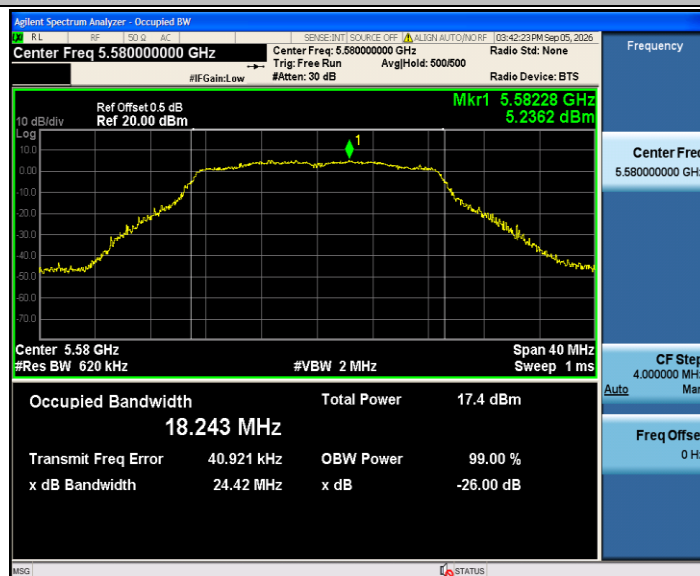
11N20SISO_Ant1_5320



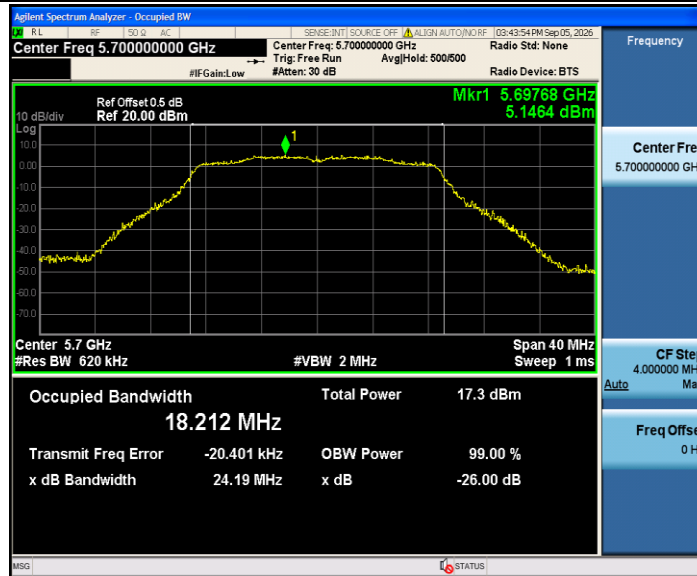
11N20SISO_Ant1_5500



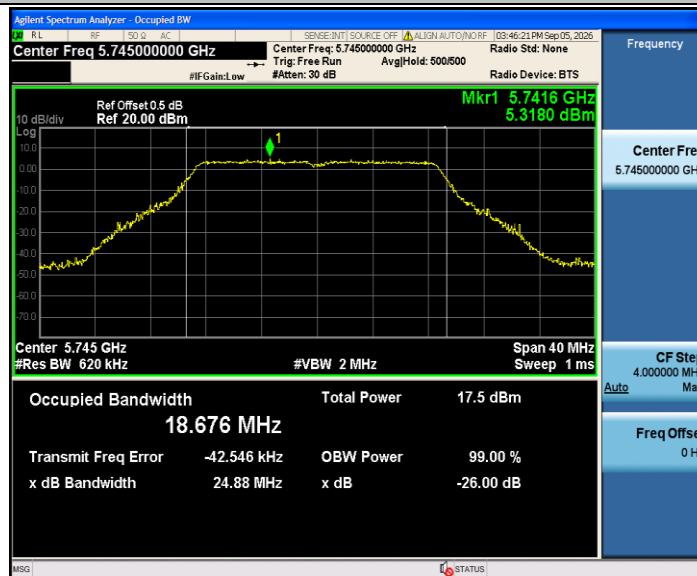
11N20SISO_Ant1_5580



11N20SISO_Ant1_5700



11N20SISO_Ant1_5745



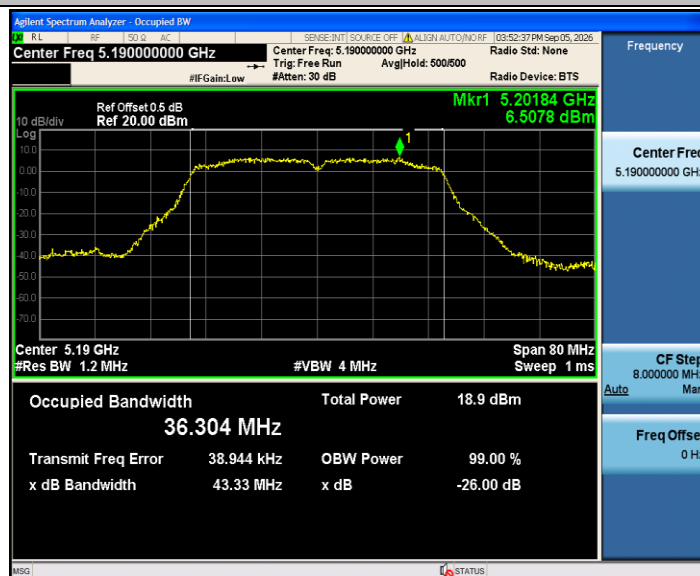
11N20SISO_Ant1_5785



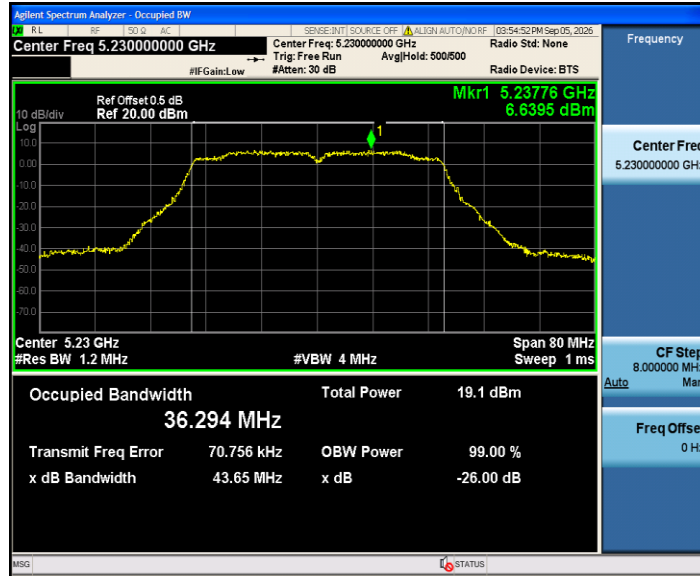
11N20SISO_Ant1_5825



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11N40SISO_Ant1_5270



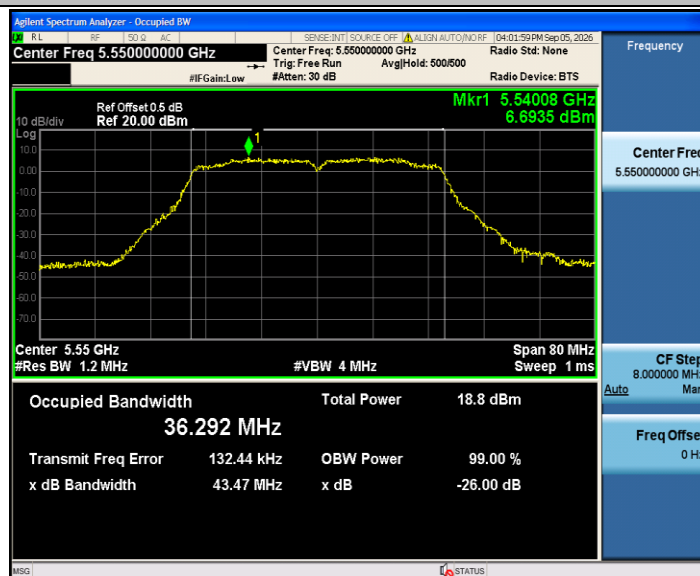
11N40SISO_Ant1_5310



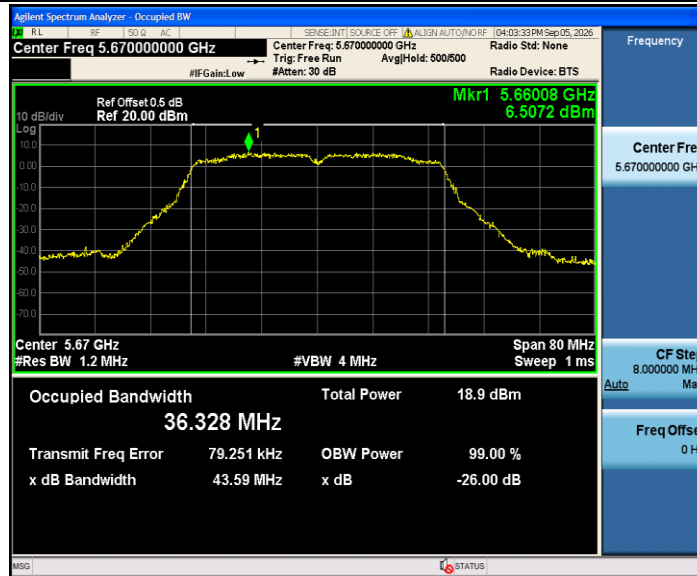
11N40SISO_Ant1_5510



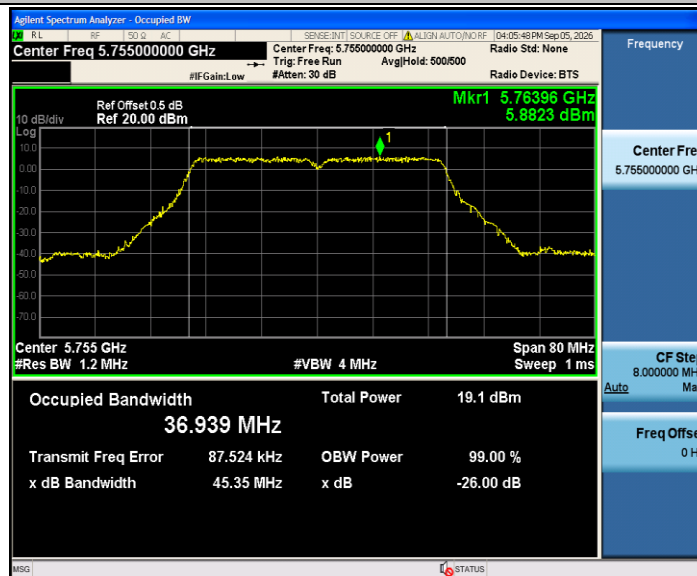
11N40SISO_Ant1_5550



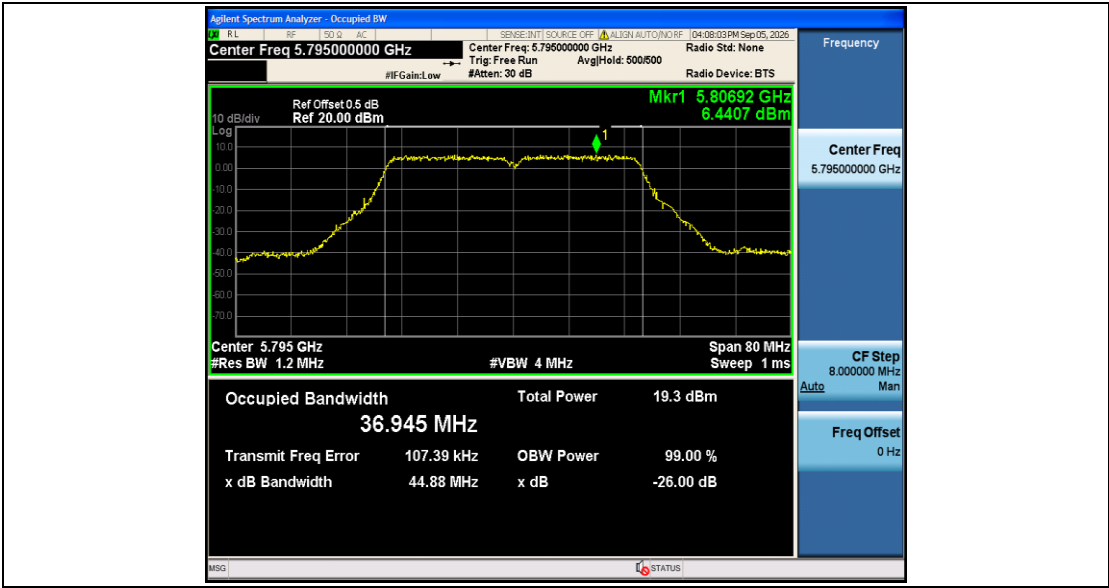
11N40SISO_Ant1_5670



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	16.080	5776.840	5792.920	0.5	PASS
		5825	16.240	5816.880	5833.120	0.5	PASS
11N20SISO	Ant1	5745	17.520	5736.240	5753.760	0.5	PASS
		5785	17.560	5776.240	5793.800	0.5	PASS
		5825	17.560	5816.200	5833.760	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