

FCC Appendix RF Test Data for 5GWIFI

FCC ID : 2BU4K-U4

Company : Shenzhen Xintie E-commerce Co., Ltd.

EUT : Essential oil Diffuser

Model Number : U4

Report No. : CTA26022500203

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	23.440	5168.320	5191.760	---	---
		5220	22.760	5208.800	5231.560	---	---
		5240	23.360	5228.640	5252.000	---	---
		5745	25.480	5732.680	5758.160	---	---
		5785	24.040	5772.680	5796.720	---	---
		5825	24.640	5812.560	5837.200	---	---
11N20SISO	Ant1	5180	24.520	5168.480	5193.000	---	---
		5220	24.200	5207.800	5232.000	---	---
		5240	23.600	5228.680	5252.280	---	---
		5745	24.640	5732.800	5757.440	---	---
		5785	24.640	5772.840	5797.480	---	---
		5825	25.040	5812.680	5837.720	---	---
11N40SISO	Ant1	5190	43.760	5168.160	5211.920	---	---
		5230	42.880	5208.800	5251.680	---	---
		5755	44.560	5733.320	5777.880	---	---
		5795	45.440	5772.680	5818.120	---	---
11AC20SISO	Ant1	5180	22.640	5168.720	5191.360	---	---
		5220	22.680	5208.960	5231.640	---	---
		5240	23.200	5228.760	5251.960	---	---
		5745	23.120	5733.440	5756.560	---	---
		5785	24.200	5773.480	5797.680	---	---
		5825	23.320	5813.560	5836.880	---	---
11AC40SISO	Ant1	5190	42.560	5168.560	5211.120	---	---
		5230	42.560	5209.120	5251.680	---	---
		5755	44.400	5733.000	5777.400	---	---
		5795	43.920	5773.560	5817.480	---	---

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



11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



11N40SISO_Ant1_5755





11AC20SISO_Ant1_5240



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



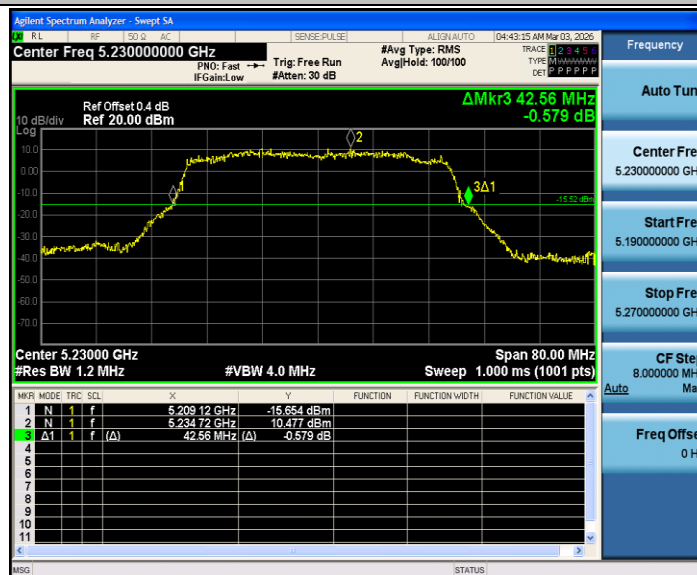
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795

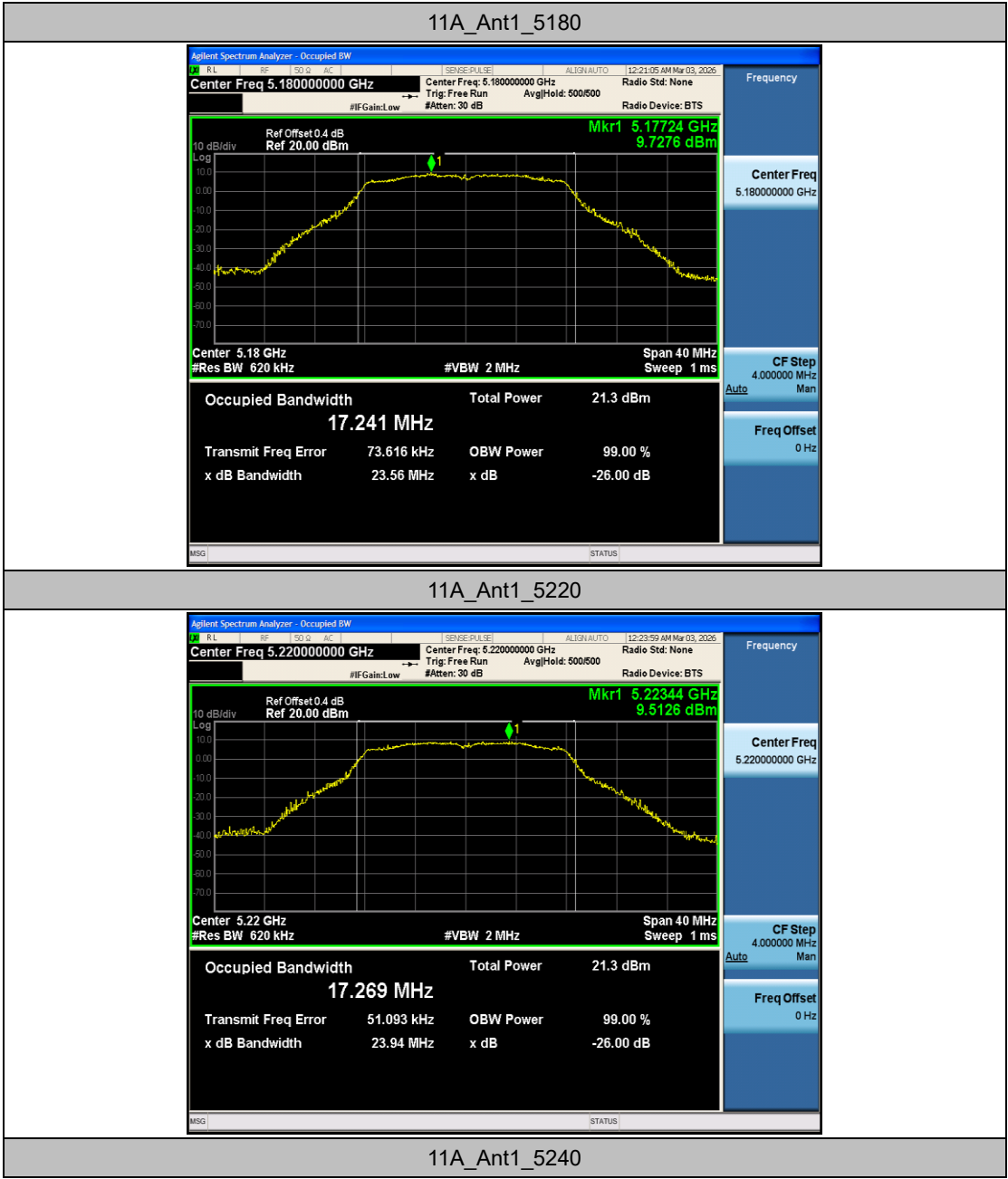


Appendix A2: Occupied channel bandwidth

Test Result

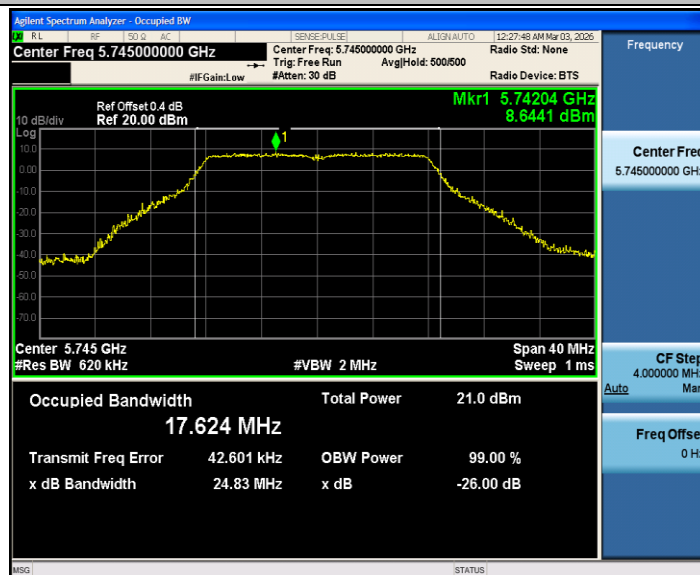
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.241	5171.4531	5188.6941	---	---
		5220	17.269	5211.4166	5228.6856	---	---
		5240	17.252	5231.4401	5248.6921	---	---
		5745	17.624	5736.2306	5753.8546	---	---
		5785	17.648	5776.2015	5793.8495	---	---
		5825	17.605	5816.2058	5833.8108	---	---
11N20SISO	Ant1	5180	18.265	5170.9139	5189.1789	---	---
		5220	18.229	5210.8913	5229.1203	---	---
		5240	18.277	5230.8841	5249.1611	---	---
		5745	18.720	5735.6736	5754.3936	---	---
		5785	18.635	5775.7070	5794.3420	---	---
		5825	18.688	5815.6472	5834.3352	---	---
11N40SISO	Ant1	5190	36.296	5171.9376	5208.2336	---	---
		5230	36.248	5211.9432	5248.1912	---	---
		5755	36.968	5736.6469	5773.6149	---	---
		5795	37.031	5776.5783	5813.6093	---	---
11AC20SISO	Ant1	5180	19.127	5170.4821	5189.6091	---	---
		5220	19.116	5210.4709	5229.5869	---	---
		5240	19.077	5230.5020	5249.5790	---	---
		5745	19.459	5735.3018	5754.7608	---	---
		5785	19.375	5775.3480	5794.7230	---	---
		5825	19.361	5815.3307	5834.6917	---	---
11AC40SISO	Ant1	5190	37.868	5171.1344	5209.0024	---	---
		5230	37.788	5211.1925	5248.9805	---	---
		5755	38.329	5735.9088	5774.2378	---	---
		5795	38.275	5775.9351	5814.2101	---	---

Test Graphs

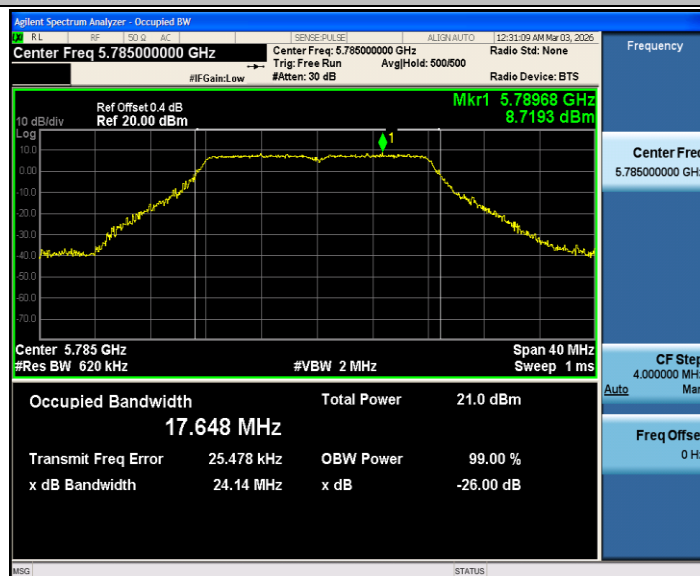




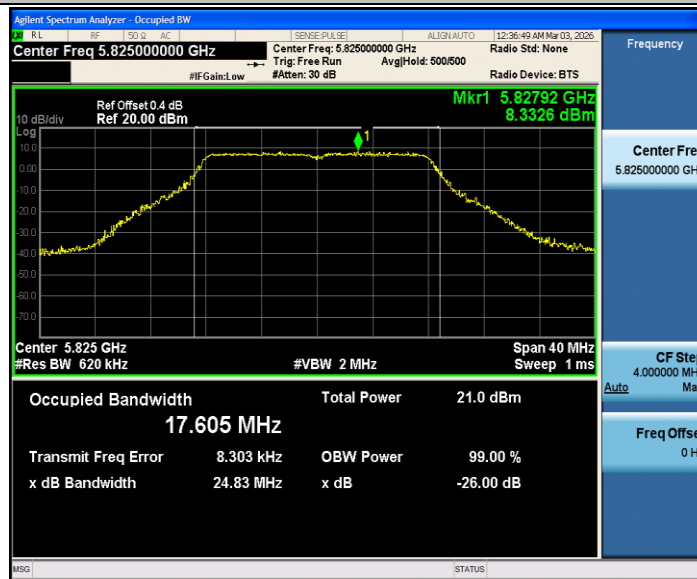
11A_Ant1_5745



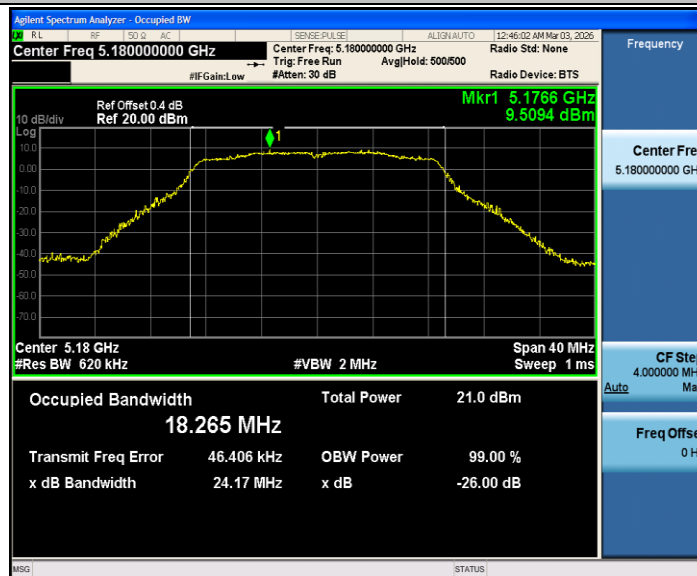
11A_Ant1_5785



11A_Ant1_5825



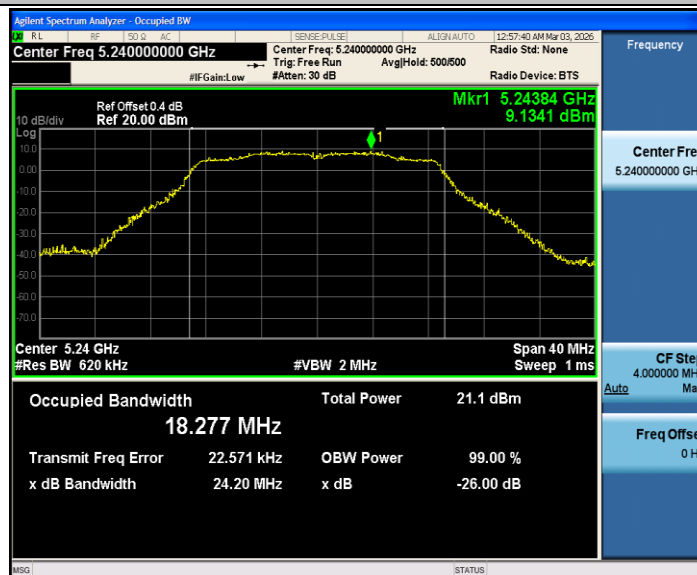
11N20SISO_Ant1_5180



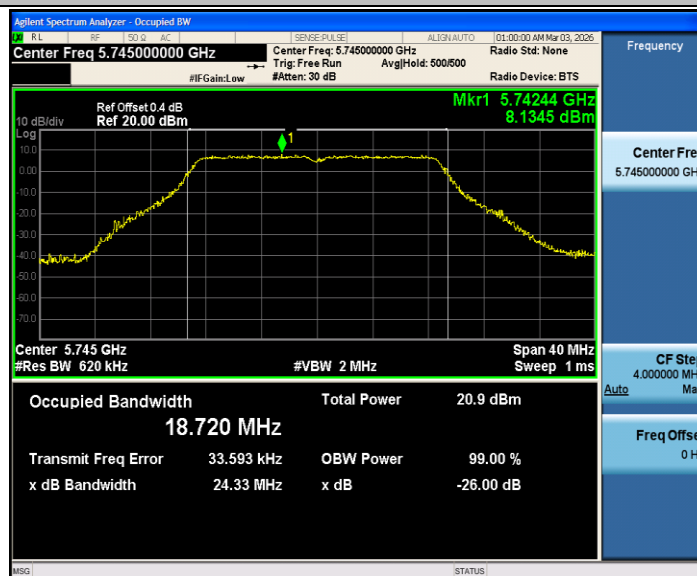
11N20SISO_Ant1_5220



11N20SISO_Ant1_5240



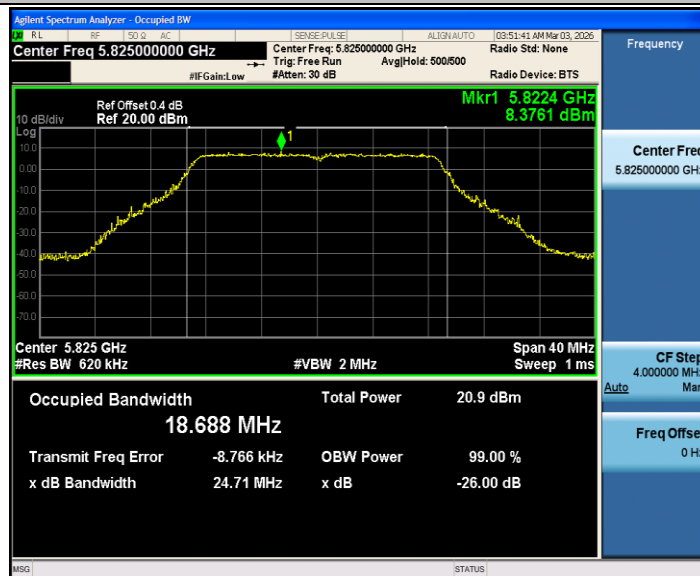
11N20SISO_Ant1_5745



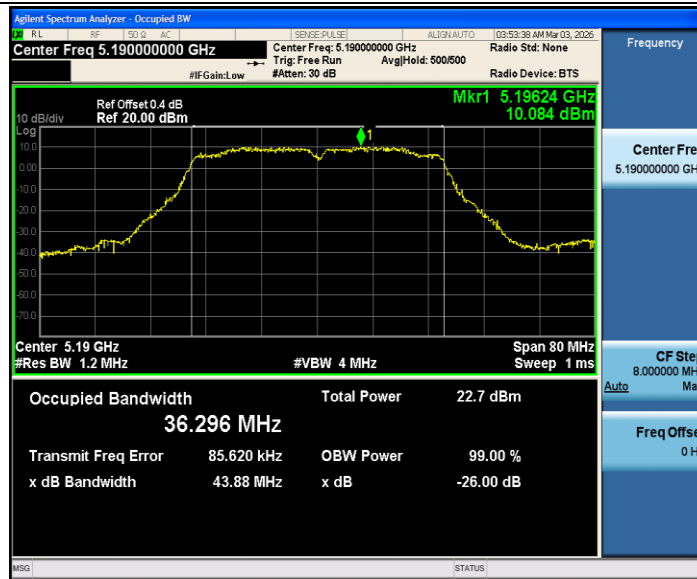
11N20SISO_Ant1_5785



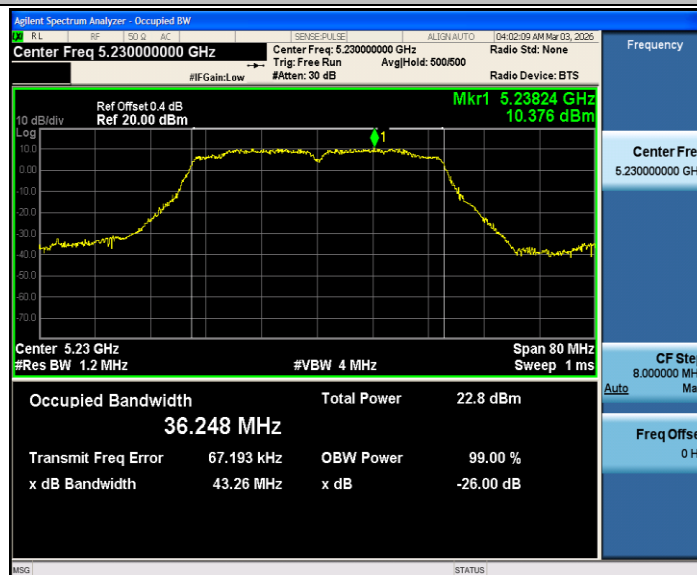
11N20SISO_Ant1_5825



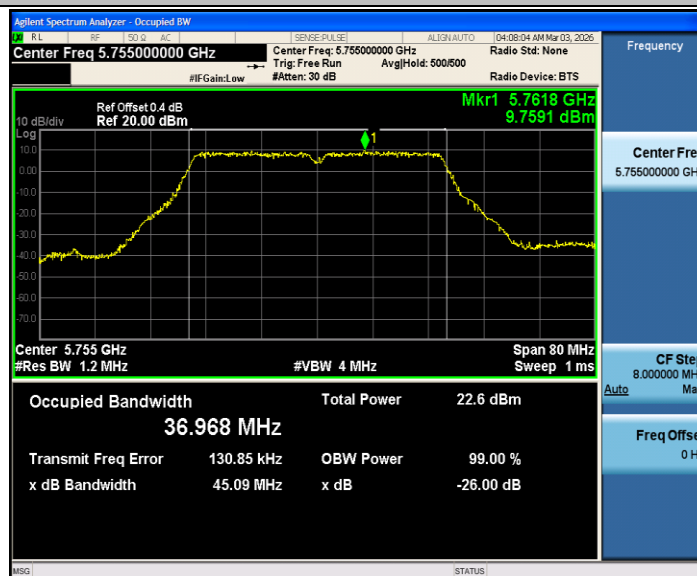
11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



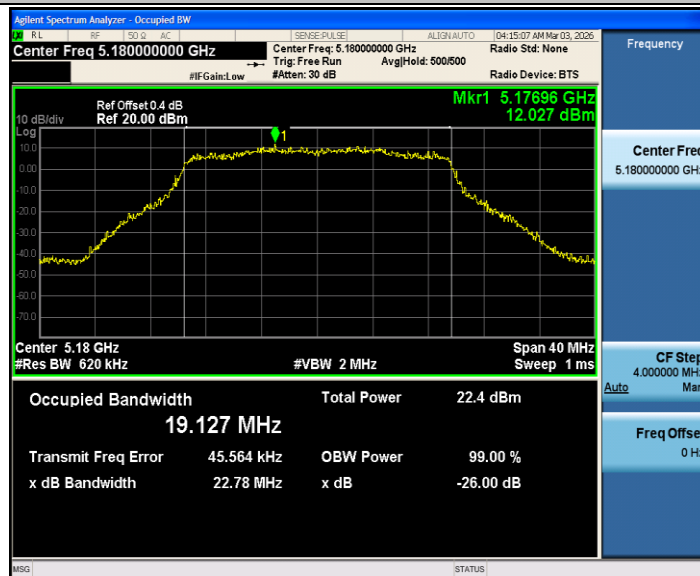
11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



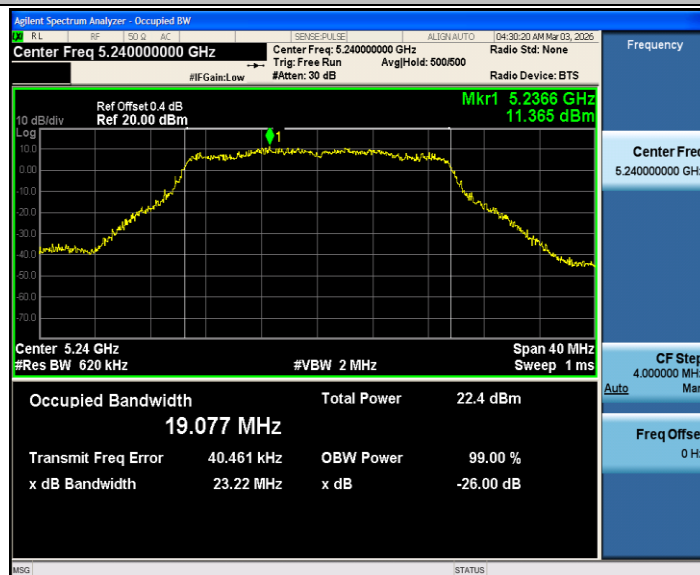
11AC20SISO_Ant1_5180



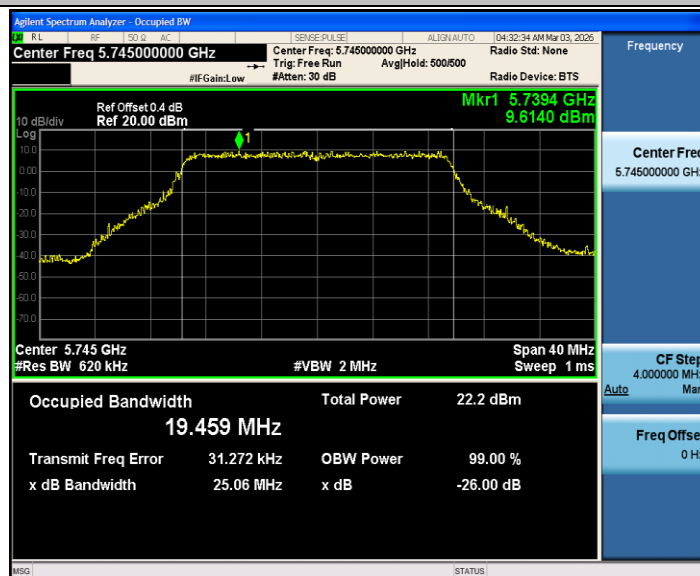
11AC20SISO_Ant1_5220



11AC20SISO_Ant1_5240



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



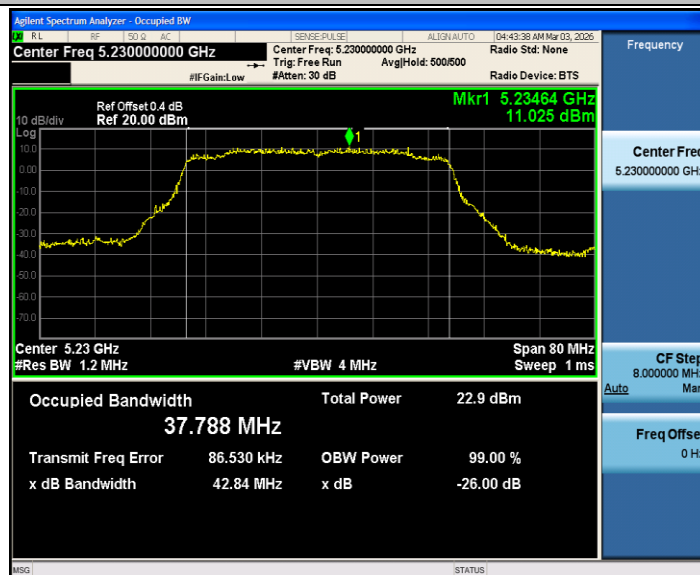
11AC20SISO_Ant1_5825



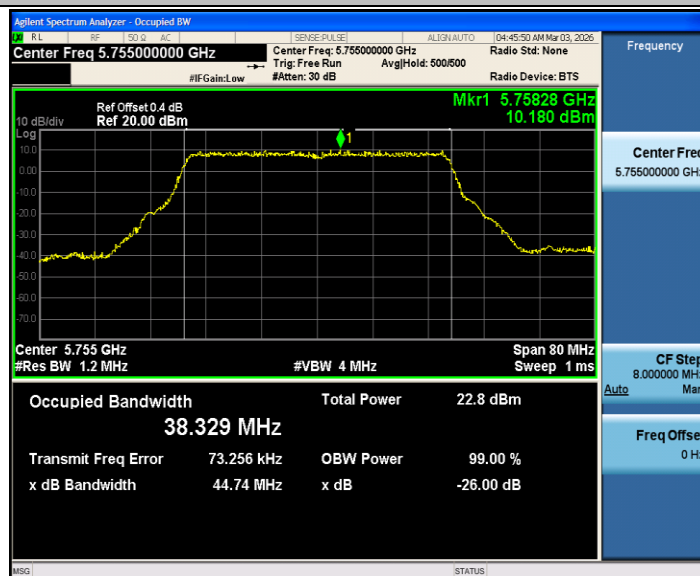
11AC40SISO_Ant1_5190



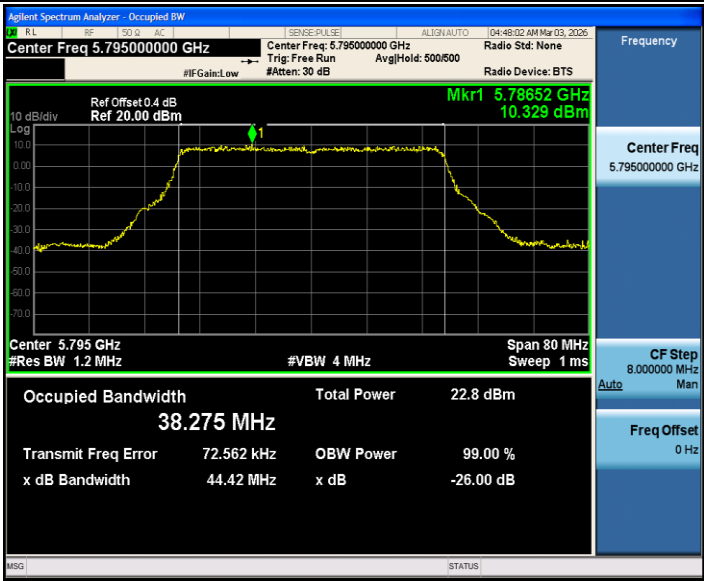
11AC40SISO_Ant1_5230



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795

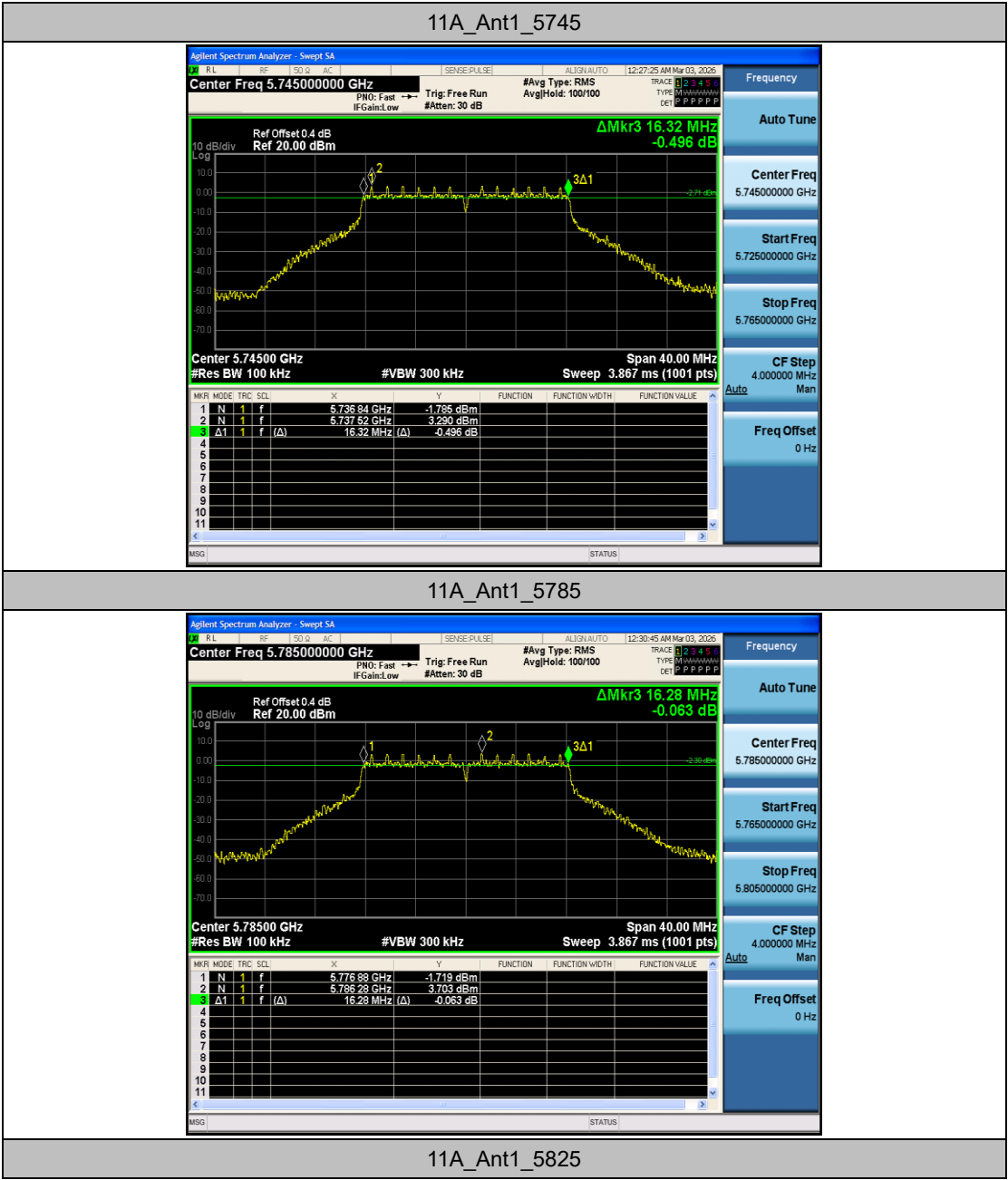


Appendix A3: Min emission bandwidth

Test Result B4

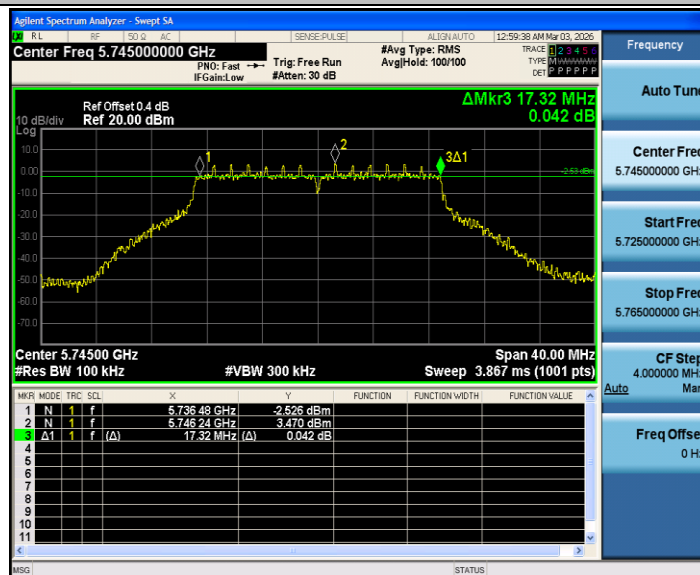
TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.320	5736.840	5753.160	0.5	PASS
		5785	16.280	5776.880	5793.160	0.5	PASS
		5825	16.280	5816.880	5833.160	0.5	PASS
11N20SISO	Ant1	5745	17.320	5736.480	5753.800	0.5	PASS
		5785	17.520	5776.240	5793.760	0.5	PASS
		5825	17.280	5816.240	5833.520	0.5	PASS
11N40SISO	Ant1	5755	36.080	5736.840	5772.920	0.5	PASS
		5795	36.320	5776.840	5813.160	0.5	PASS
11AC20SISO	Ant1	5745	18.720	5735.720	5754.440	0.5	PASS
		5785	18.000	5776.080	5794.080	0.5	PASS
		5825	17.880	5816.120	5834.000	0.5	PASS
11AC40SISO	Ant1	5755	37.680	5736.280	5773.960	0.5	PASS
		5795	37.840	5776.120	5813.960	0.5	PASS

Test Graphs B4

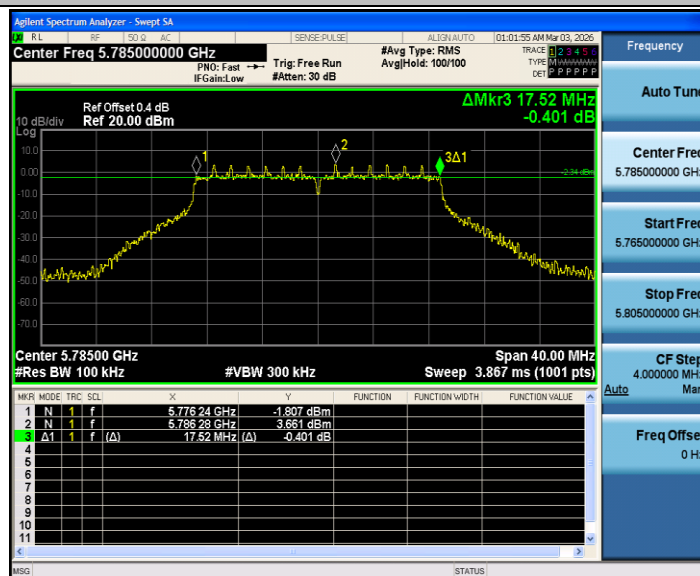




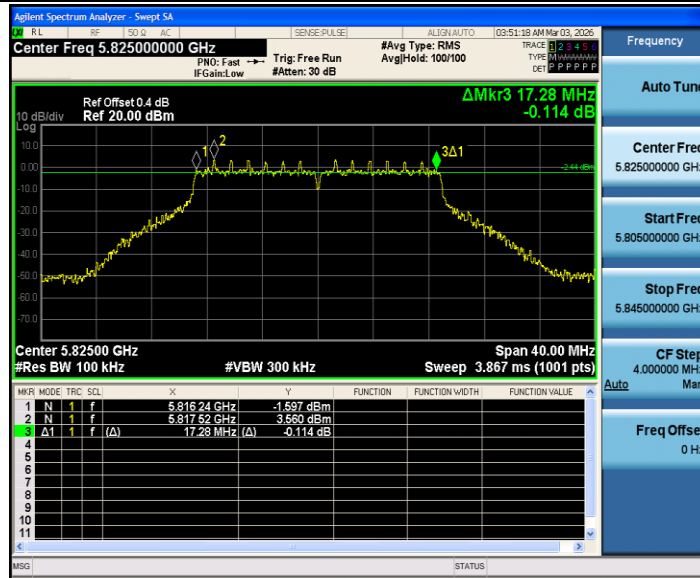
11N20SISO_Ant1_5745



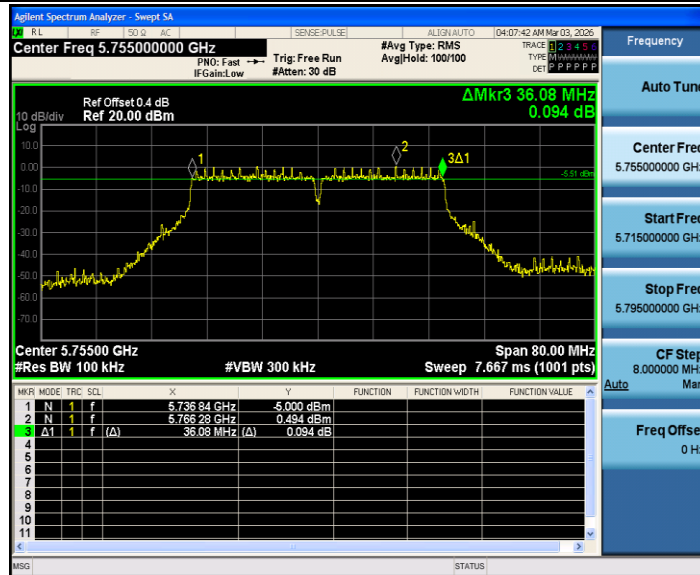
11N20SISO_Ant1_5785



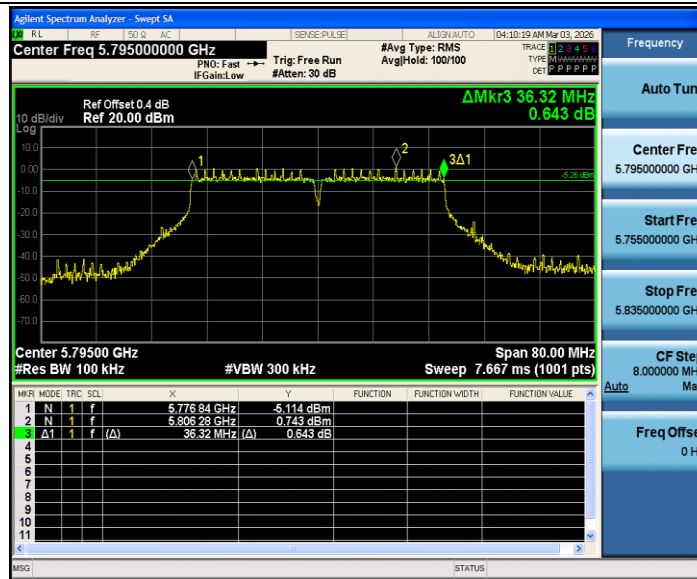
11N20SISO_Ant1_5825



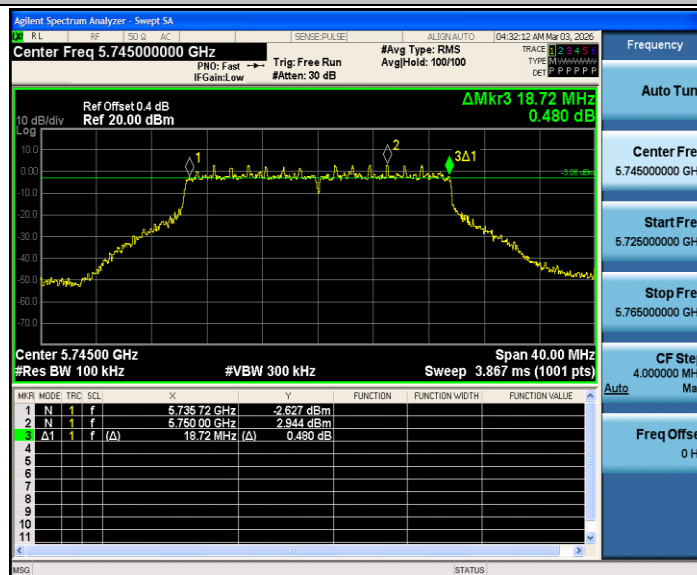
11N40SISO_Ant1_5755



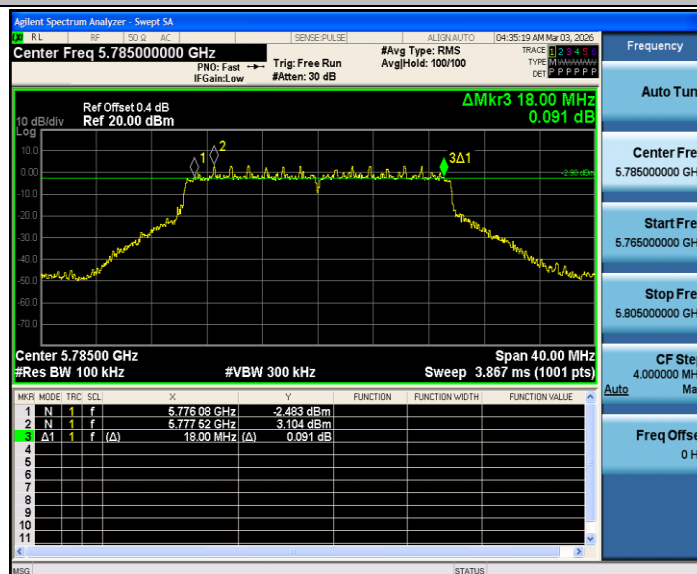
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



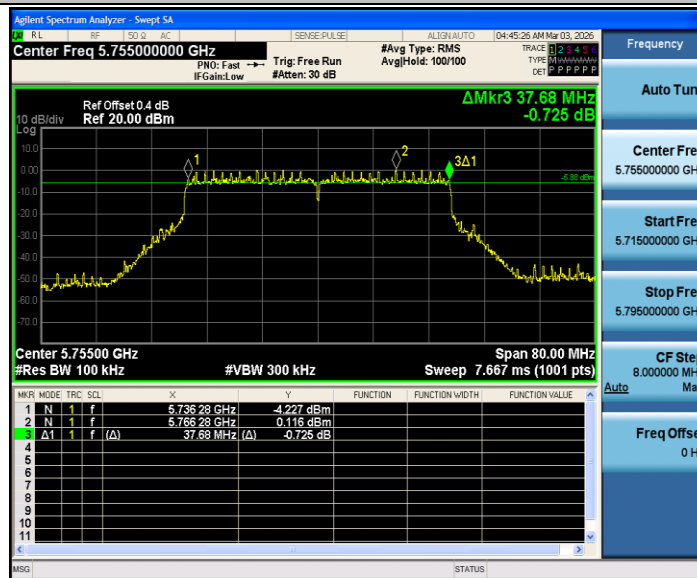
11AC20SISO_Ant1_5785



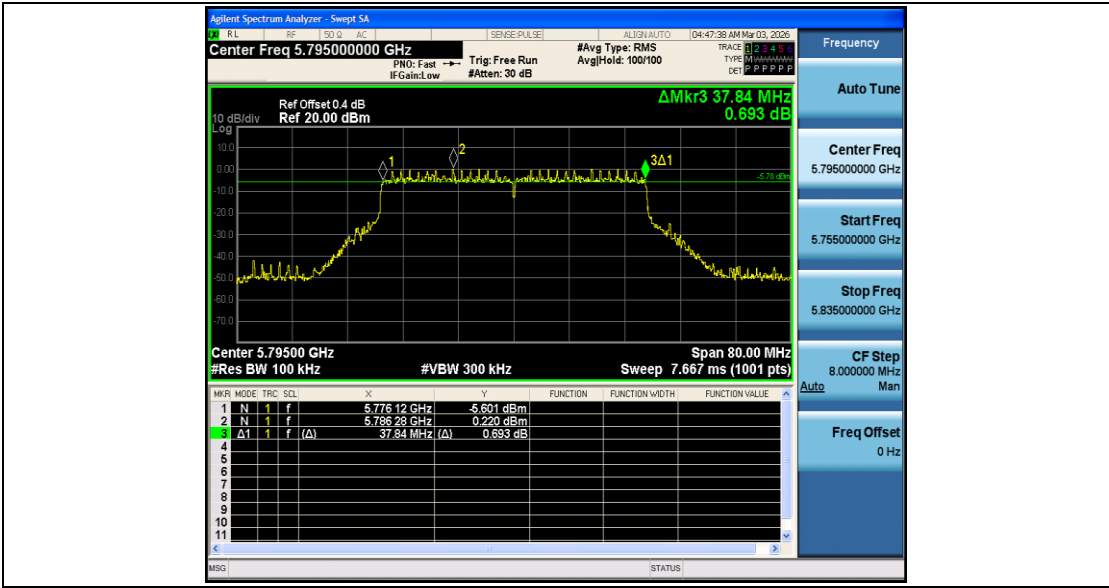
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



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	0.19	78.95	1.03	---	---
		5220	0.15	0.20	75.00	1.25	---	---
		5240	0.15	0.20	75.00	1.25	---	---
		5745	0.15	0.19	78.95	1.03	---	---
		5785	0.15	0.20	75.00	1.25	---	---
		5825	0.15	0.20	75.00	1.25	---	---
11N20SISO	Ant1	5180	0.18	0.22	81.82	0.87	---	---
		5220	0.18	0.23	78.26	1.06	---	---
		5240	0.18	0.22	81.82	0.87	---	---
		5745	0.18	0.23	78.26	1.06	---	---
		5785	0.17	0.22	77.27	1.12	---	---
		5825	0.18	0.23	78.26	1.06	---	---
11N40SISO	Ant1	5190	0.18	0.23	78.26	1.06	---	---
		5230	0.18	0.23	78.26	1.06	---	---
		5755	0.18	0.22	81.82	0.87	---	---
		5795	0.18	0.23	78.26	1.06	---	---
11AC20SISO	Ant1	5180	0.25	0.30	83.33	0.79	---	---
		5220	0.26	0.31	83.87	0.76	---	---
		5240	0.25	0.30	83.33	0.79	---	---
		5745	0.26	0.31	83.87	0.76	---	---
		5785	0.26	0.30	86.67	0.62	---	---
		5825	0.25	0.30	83.33	0.79	---	---
11AC40SISO	Ant1	5190	0.17	0.22	77.27	1.12	---	---
		5230	0.18	0.22	81.82	0.87	---	---
		5755	0.17	0.22	77.27	1.12	---	---
		5795	0.18	0.23	78.26	1.06	---	---