
FCC Appendix RF Test Data for RLAN

FCC ID : 2BHX3-TAA06

Company: : Shenzhen Trolink Technology Co., Ltd

EUT : Carplay Box

Model Number : TAA06

Report No. : CTA25033100703

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	20.240	5170.160	5190.400	---	---
		5220	24.720	5209.240	5233.960	---	---
		5240	23.200	5228.160	5251.360	---	---
		5745	27.040	5731.800	5758.840	---	---
		5785	24.280	5774.720	5799.000	---	---
		5825	21.960	5815.280	5837.240	---	---
11N20SISO	Ant1	5180	25.560	5168.360	5193.920	---	---
		5220	24.840	5207.920	5232.760	---	---
		5240	24.680	5228.000	5252.680	---	---
		5745	25.320	5732.160	5757.480	---	---
		5785	27.000	5773.000	5800.000	---	---
		5825	26.120	5812.880	5839.000	---	---
11N40SISO	Ant1	5190	51.760	5168.800	5220.560	---	---
		5230	43.200	5209.440	5252.640	---	---
		5755	48.960	5727.640	5776.600	---	---
		5795	43.600	5773.240	5816.840	---	---
11AC20SISO	Ant1	5180	24.640	5170.200	5194.840	---	---
		5220	20.000	5210.160	5230.160	---	---
		5240	21.440	5230.200	5251.640	---	---
		5745	24.680	5733.040	5757.720	---	---
		5785	20.000	5775.200	5795.200	---	---
		5825	24.280	5811.360	5835.640	---	---
11AC40SISO	Ant1	5190	53.040	5165.840	5218.880	---	---
		5230	50.080	5206.720	5256.800	---	---
		5755	47.440	5729.480	5776.920	---	---
		5795	46.480	5770.600	5817.080	---	---
11AX20SISO	Ant1	5180	22.000	5170.240	5192.240	---	---
		5220	23.360	5208.600	5231.960	---	---
		5240	22.000	5228.120	5250.120	---	---
		5745	24.480	5732.160	5756.640	---	---
		5785	25.520	5771.440	5796.960	---	---
		5825	23.760	5812.600	5836.360	---	---
11AX40SISO	Ant1	5190	53.040	5166.000	5219.040	---	---
		5230	50.560	5206.240	5256.800	---	---
		5755	47.360	5729.640	5777.000	---	---
		5795	42.960	5773.160	5816.120	---	---

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



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5180



11AC20SISO_Ant1_5220



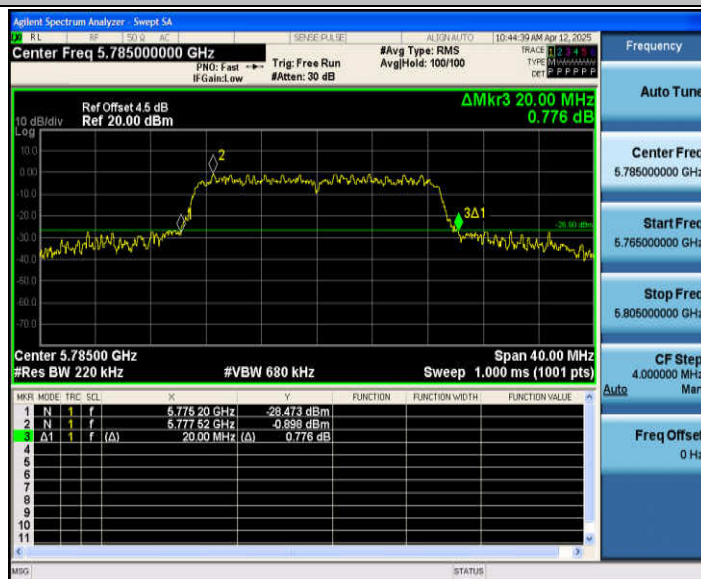
11AC20SISO_Ant1_5240



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5190



11AC40SISO_Ant1_5230



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AX20SISO_Ant1_5180



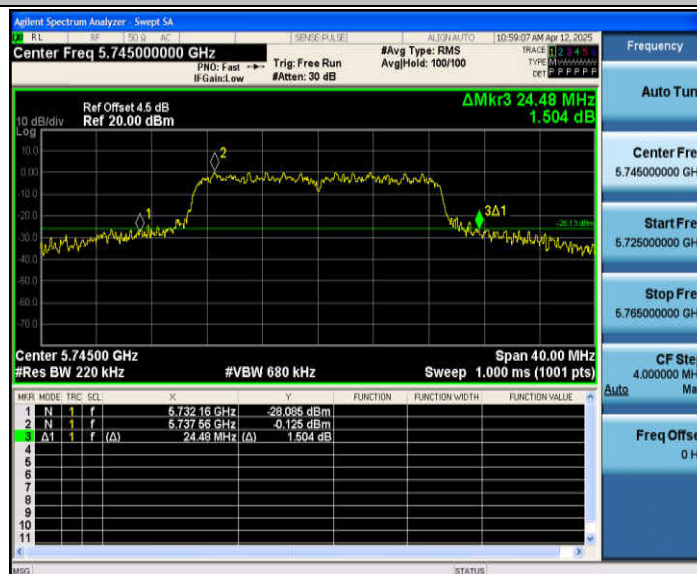
11AX20SISO_Ant1_5220



11AX20SISO_Ant1_5240



11AX20SISO_Ant1_5745



11AX20SISO_Ant1_5785



11AX20SISO_Ant1_5825



11AX40SISO_Ant1_5190



11AX40SISO_Ant1_5230



11AX40SISO_Ant1_5755



11AX40SISO_Ant1_5795



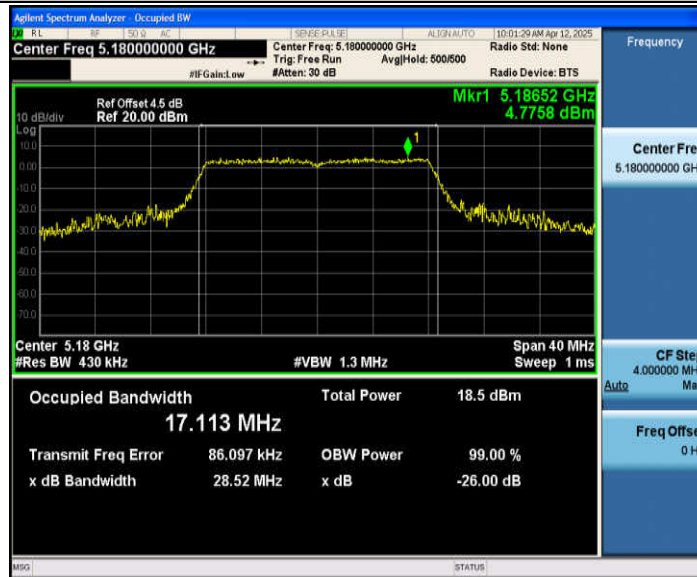
Appendix A2: Occupied channel bandwidth

Test Result

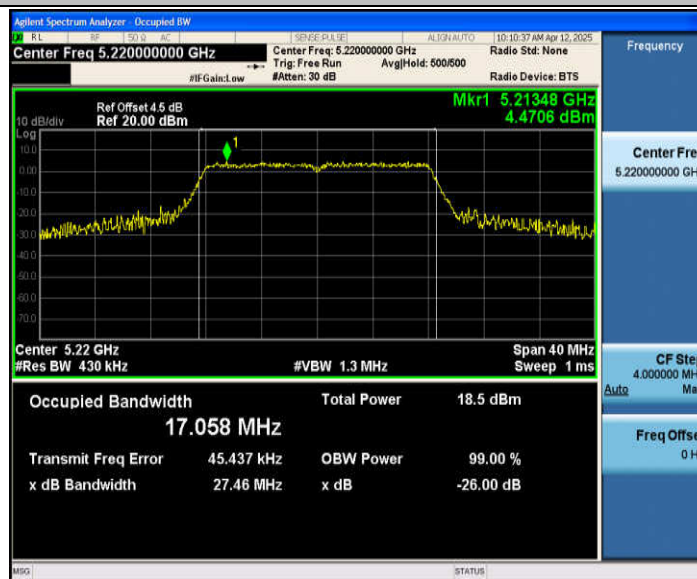
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.113	5171.5296	5188.6426	---	---
		5220	17.058	5211.5164	5228.5744	---	---
		5240	17.118	5231.4740	5248.5920	---	---
		5745	17.187	5736.3832	5753.5702	---	---
		5785	17.195	5776.4148	5793.6098	---	---
		5825	17.092	5816.4965	5833.5885	---	---
11N20SISO	Ant1	5180	18.198	5171.0003	5189.1983	---	---
		5220	18.164	5210.9536	5229.1176	---	---
		5240	18.148	5230.9775	5249.1255	---	---
		5745	18.195	5735.9063	5754.1013	---	---
		5785	18.113	5775.9774	5794.0904	---	---
		5825	18.053	5816.0434	5834.0964	---	---
11N40SISO	Ant1	5190	36.851	5171.7595	5208.6105	---	---
		5230	36.770	5211.7324	5248.5024	---	---
		5755	36.661	5736.6227	5773.2837	---	---
		5795	36.553	5776.7409	5813.2939	---	---
11AC20SISO	Ant1	5180	17.902	5171.0757	5188.9777	---	---
		5220	17.891	5211.1012	5228.9922	---	---
		5240	17.869	5231.0818	5248.9508	---	---
		5745	18.008	5735.9804	5753.9884	---	---
		5785	17.882	5776.0828	5793.9648	---	---
		5825	17.883	5816.0982	5833.9812	---	---
11AC40SISO	Ant1	5190	36.702	5171.8741	5208.5761	---	---
		5230	36.727	5211.7408	5248.4678	---	---
		5755	36.441	5736.7565	5773.1975	---	---
		5795	36.393	5776.8705	5813.2635	---	---
11AX20SISO	Ant1	5180	17.918	5171.1184	5189.0364	---	---
		5220	17.850	5211.1258	5228.9758	---	---
		5240	17.918	5231.0509	5248.9689	---	---
		5745	17.951	5736.0034	5753.9544	---	---
		5785	17.894	5776.0755	5793.9695	---	---
		5825	17.844	5816.1329	5833.9769	---	---
11AX40SISO	Ant1	5190	36.722	5171.8317	5208.5537	---	---
		5230	36.652	5211.8012	5248.4532	---	---
		5755	36.488	5736.7030	5773.1910	---	---
		5795	36.405	5776.8445	5813.2495	---	---

Test Graphs

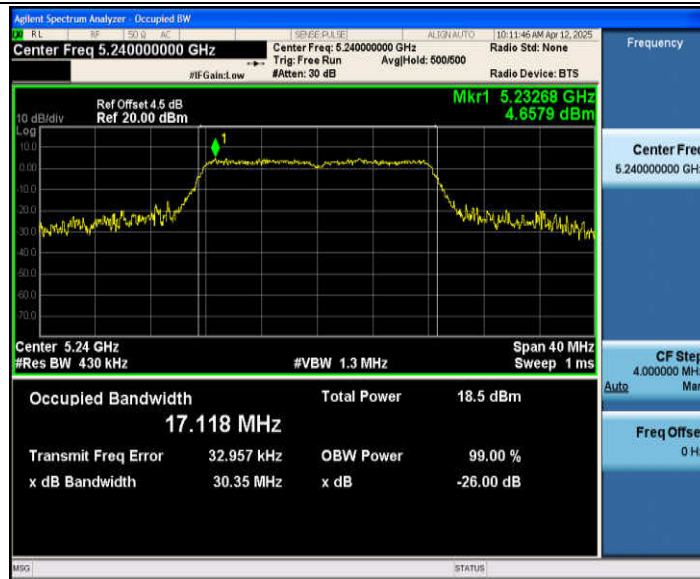
11A_Ant1_5180



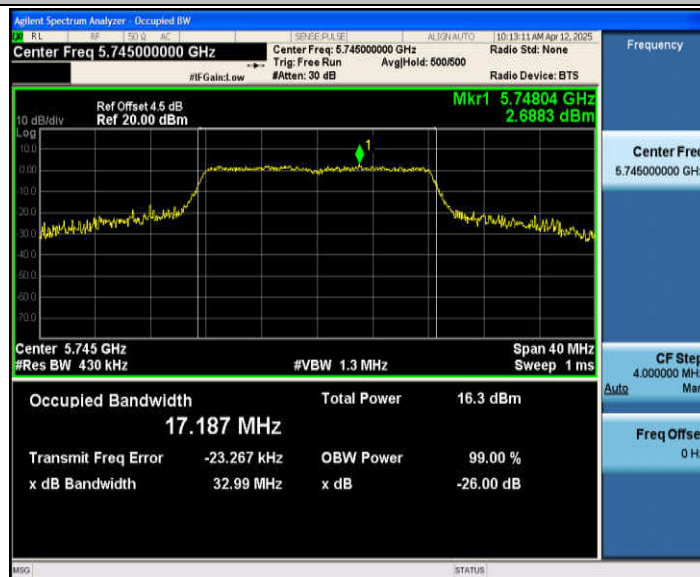
11A_Ant1_5220



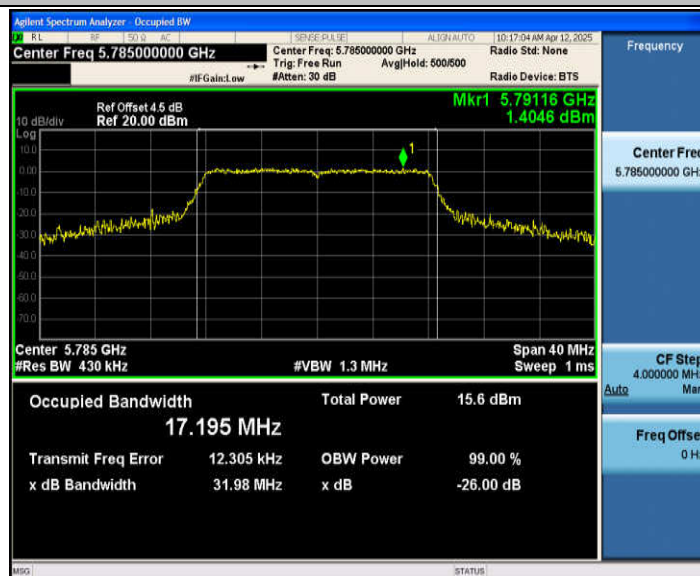
11A_Ant1_5240



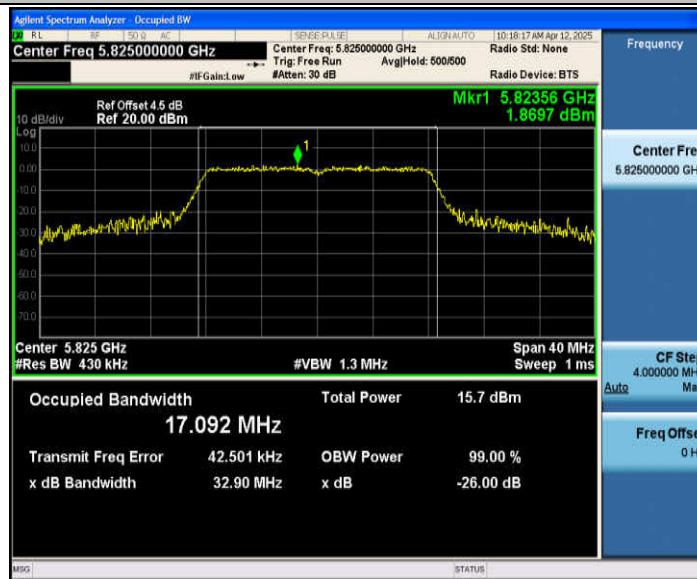
11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5180



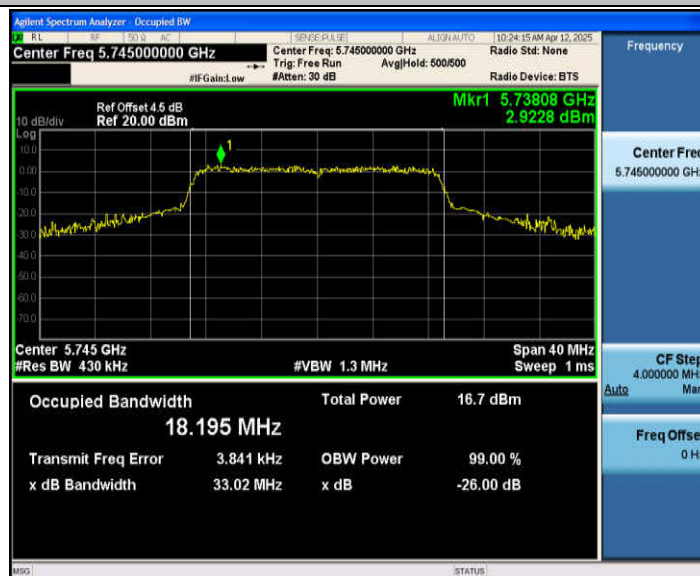
11N20SISO_Ant1_5220



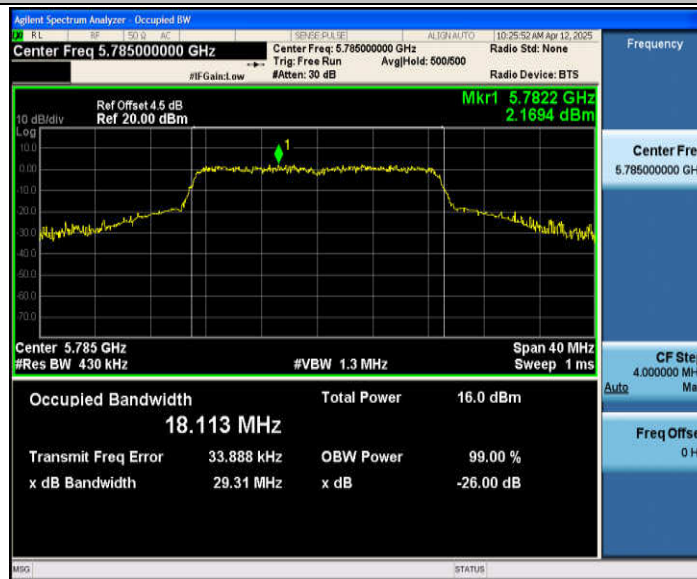
11N20SISO_Ant1_5240



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



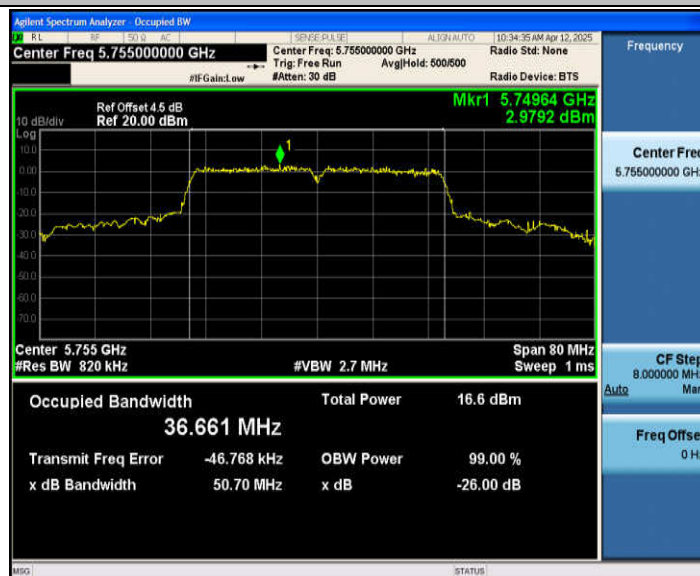
11N40SISO_Ant1_5190



11N40SISO_Ant1_5230



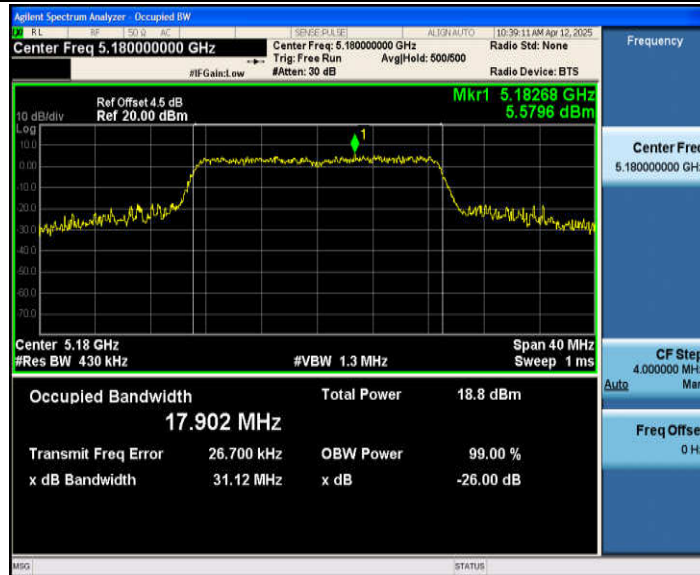
11N40SISO_Ant1_5755



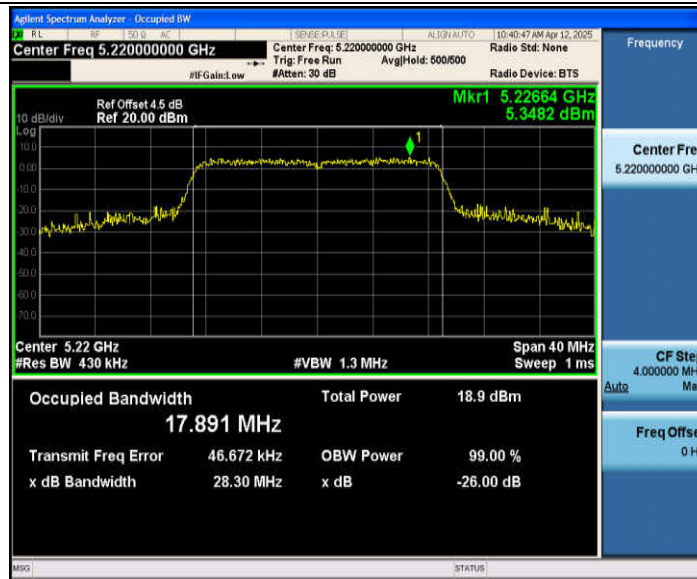
11N40SISO_Ant1_5795



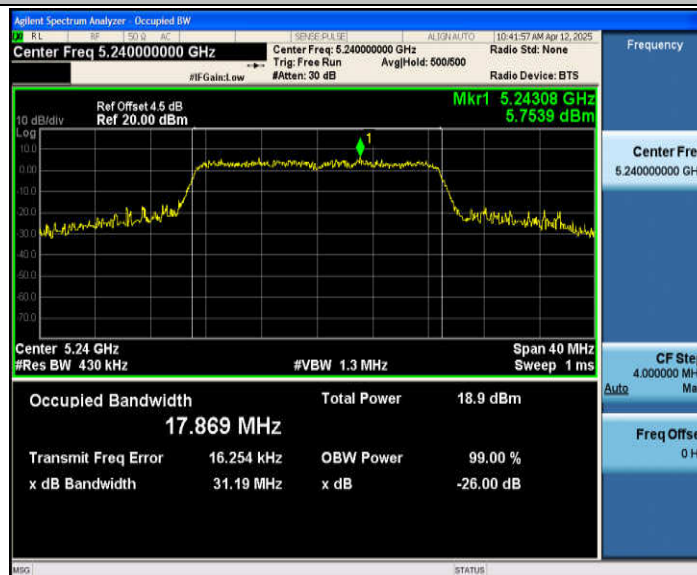
11AC20SISO_Ant1_5180



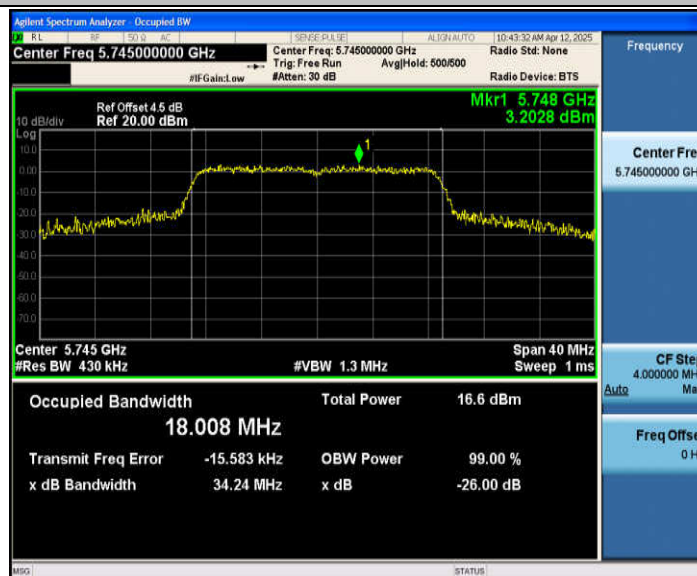
11AC20SISO_Ant1_5220



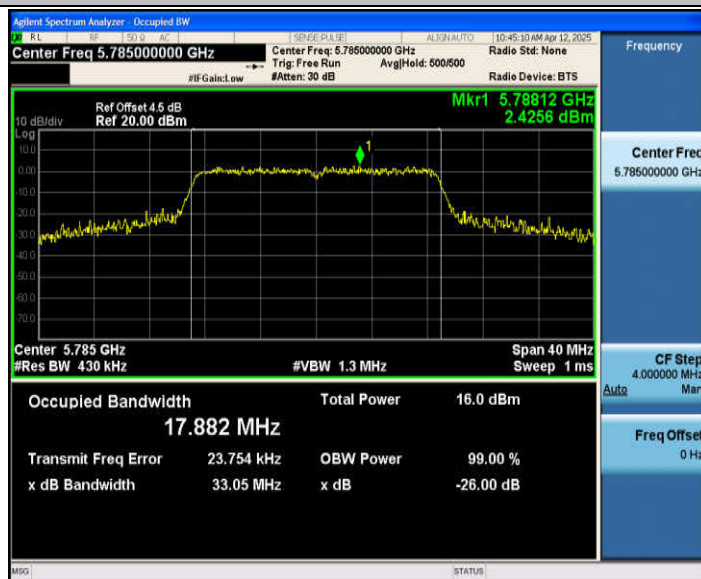
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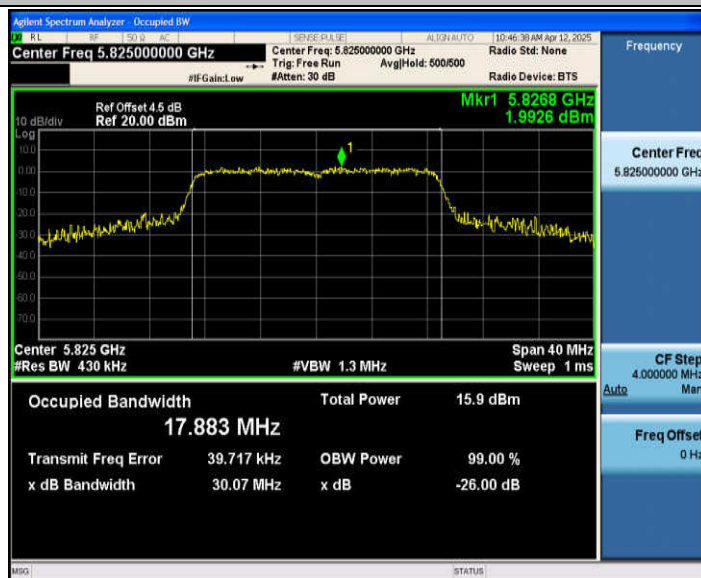
11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



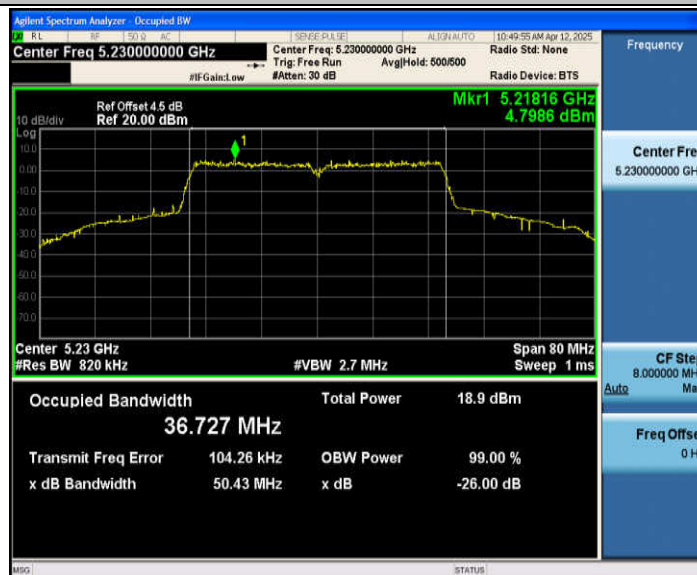
11AC20SISO_Ant1_5825



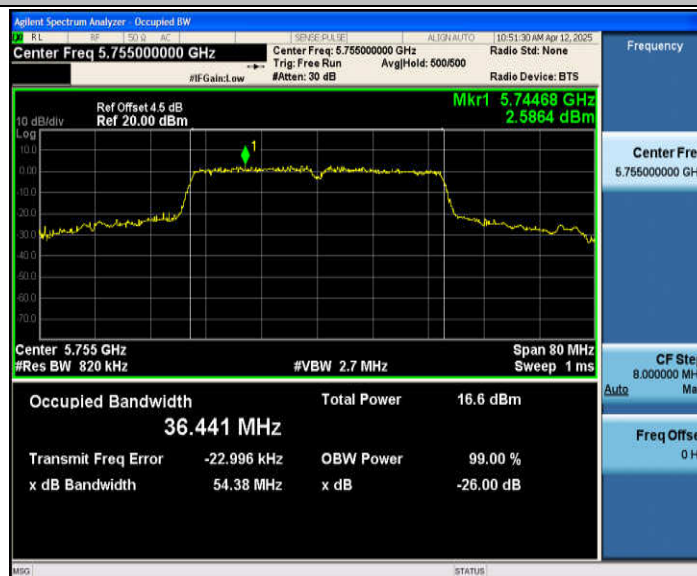
11AC40SISO_Ant1_5190



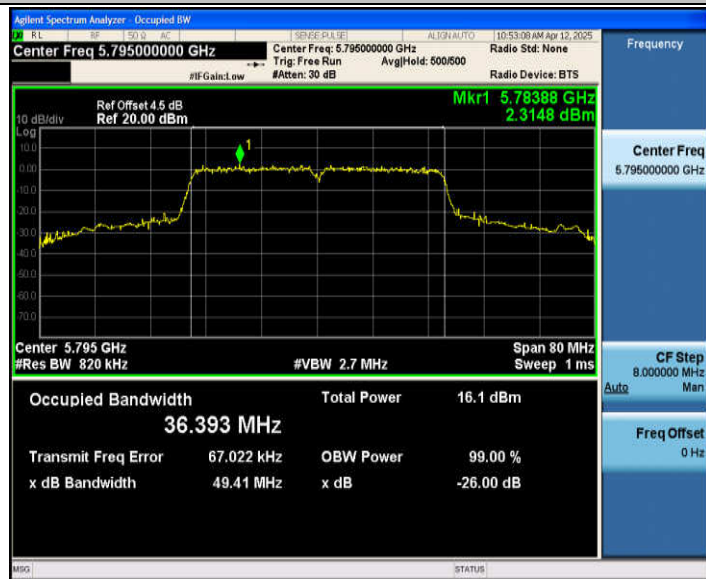
11AC40SISO_Ant1_5230



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



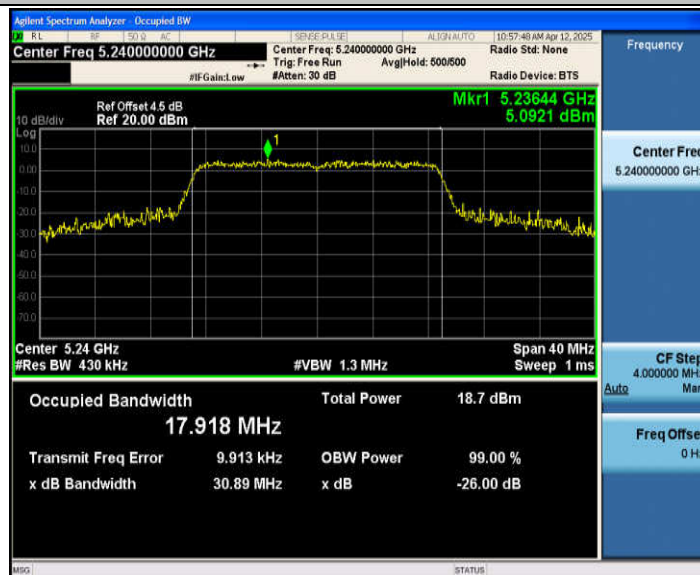
11AX20SISO_Ant1_5180



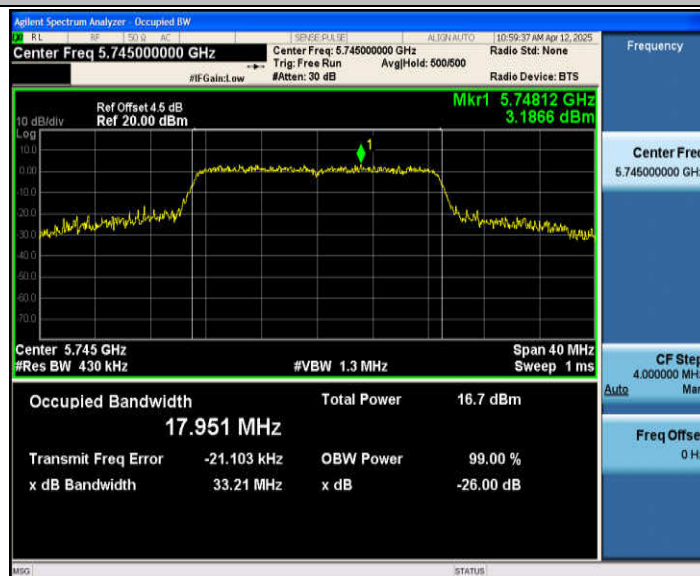
11AX20SISO_Ant1_5220



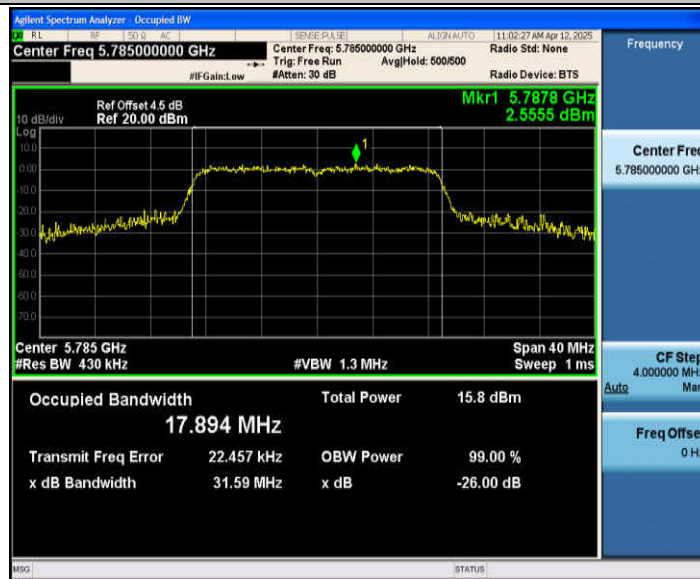
11AX20SISO_Ant1_5240



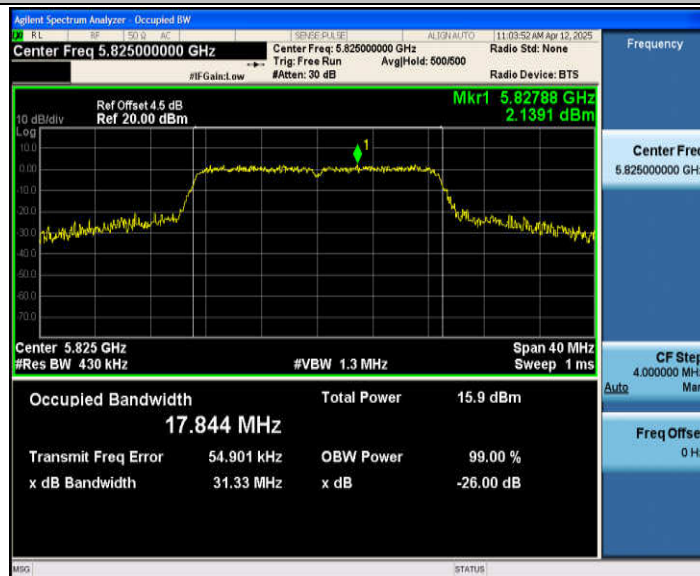
11AX20SISO_Ant1_5745



11AX20SISO_Ant1_5785



11AX20SISO_Ant1_5825



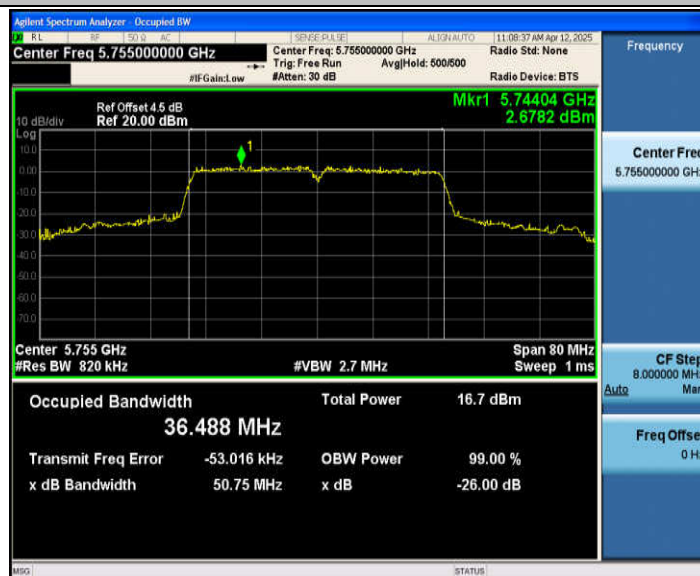
11AX40SISO_Ant1_5190



11AX40SISO_Ant1_5230



11AX40SISO_Ant1_5755



11AX40SISO_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	16.360	5736.800	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	16.960	5736.360	5753.320	0.5	PASS
		5785	16.840	5776.680	5793.520	0.5	PASS
		5825	16.960	5816.680	5833.640	0.5	PASS
11N40SISO	Ant1	5755	35.280	5737.320	5772.600	0.5	PASS
		5795	35.200	5777.400	5812.600	0.5	PASS
11AC20SISO	Ant1	5745	17.040	5736.440	5753.480	0.5	PASS
		5785	17.120	5776.480	5793.600	0.5	PASS
		5825	16.960	5816.440	5833.400	0.5	PASS
11AC40SISO	Ant1	5755	35.360	5737.240	5772.600	0.5	PASS
		5795	35.680	5777.240	5812.920	0.5	PASS
11AX20SISO	Ant1	5745	16.800	5736.440	5753.240	0.5	PASS
		5785	16.960	5776.400	5793.360	0.5	PASS
		5825	16.960	5816.400	5833.360	0.5	PASS
11AX40SISO	Ant1	5755	35.360	5737.240	5772.600	0.5	PASS
		5795	35.520	5777.080	5812.600	0.5	PASS

11A_Ant1_5745

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.74500000 GHz

Ref Offset 4.5 dB
Ref 20.00 dBm

ΔMkr3 16.36 MHz
0.930 dB

Center 5.74500 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 40.00 MHz
Sweep 3.867 ms (1001 pts)

MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	5.736 80 GHz	-6.975 dBm			
2	N	1	f	5.738 72 GHz	-1.164 dBm			
3	Δ1	1	f (Δ)	16.36 MHz (Δ)	0.930 dB			

11A_Ant1_5785

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.78500000 GHz

Ref Offset 4.5 dB
Ref 20.00 dBm

ΔMkr3 16.32 MHz
-0.185 dB

Center 5.78500 GHz
#Res BW 100 kHz
#VBW 300 kHz
Span 40.00 MHz
Sweep 3.867 ms (1001 pts)

MNR	MODE	TRC	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	f	5.776 84 GHz	-7.226 dBm			
2	N	1	f	5.786 28 GHz	-1.711 dBm			
3	Δ1	1	f (Δ)	16.32 MHz (Δ)	-0.185 dB			



11N20SISO_Ant1_5745



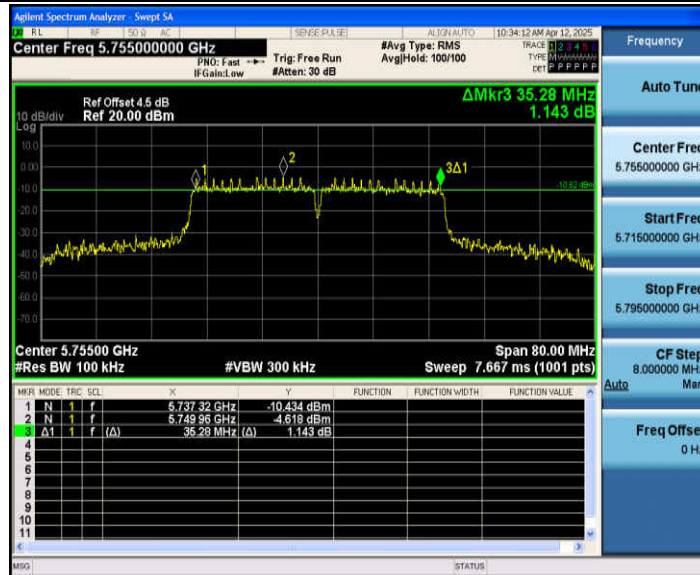
11N20SISO_Ant1_5785



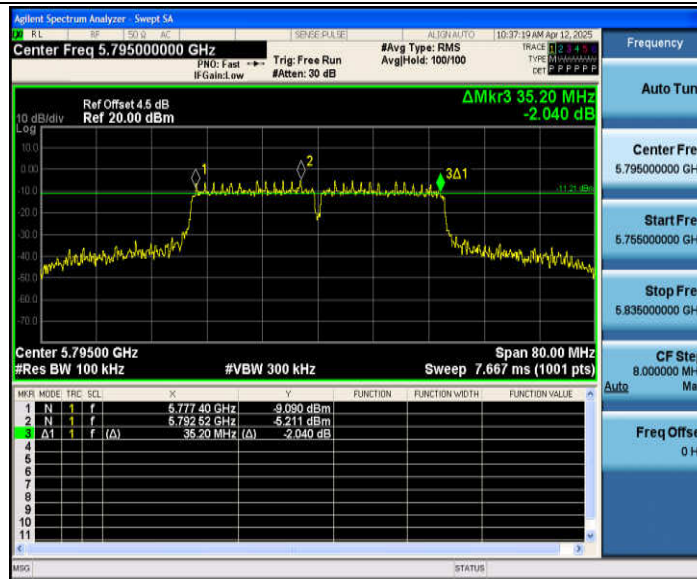
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



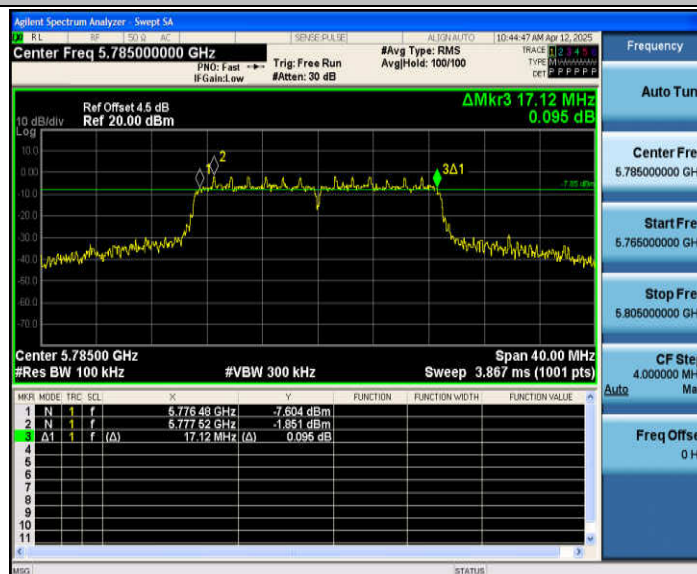
11N40SISO_Ant1_5795



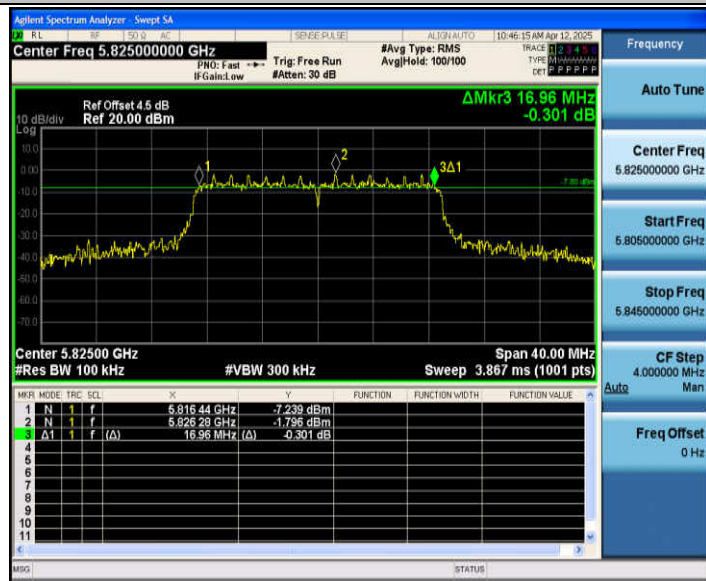
11AC20SISO_Ant1_5745



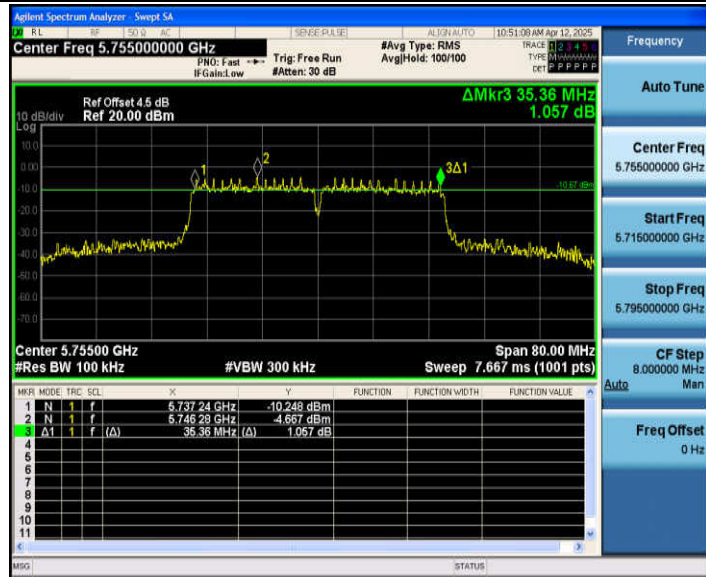
11AC20SISO_Ant1_5785



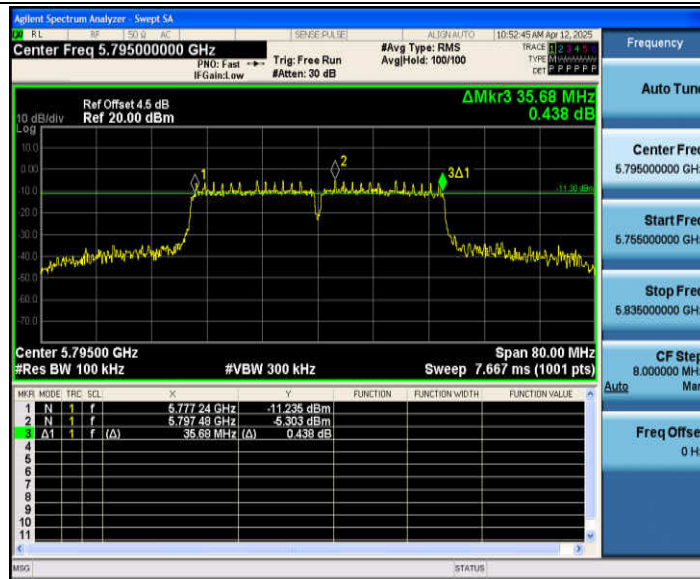
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



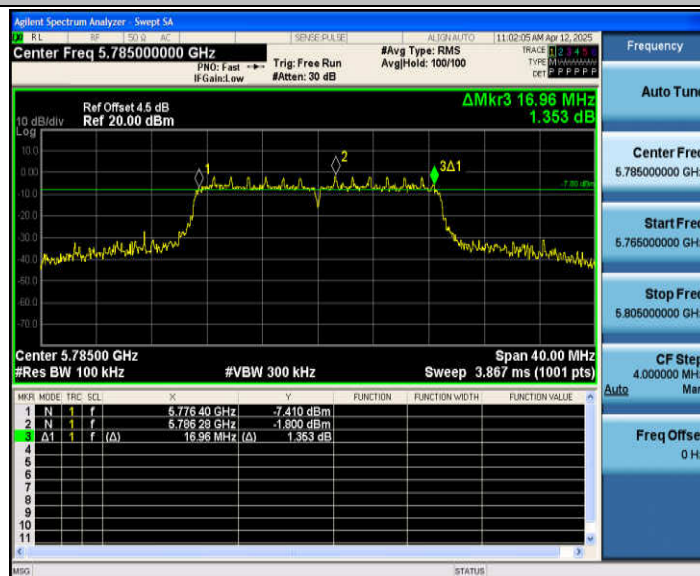
11AC40SISO_Ant1_5795



11AX20SISO_Ant1_5745



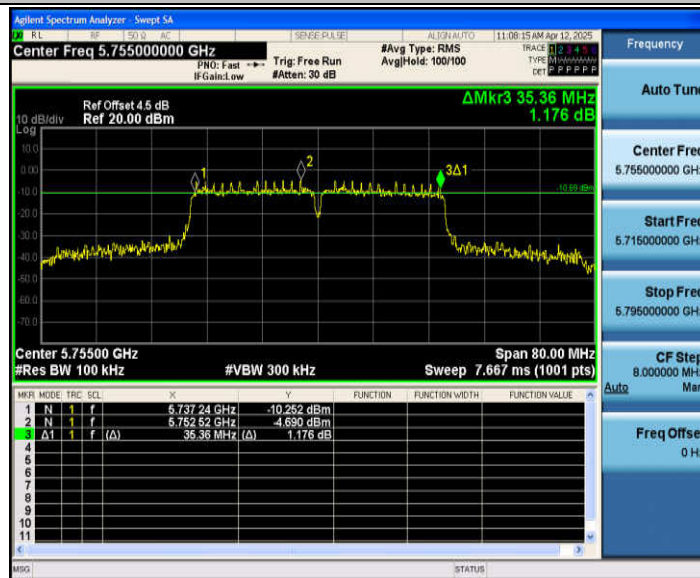
11AX20SISO_Ant1_5785



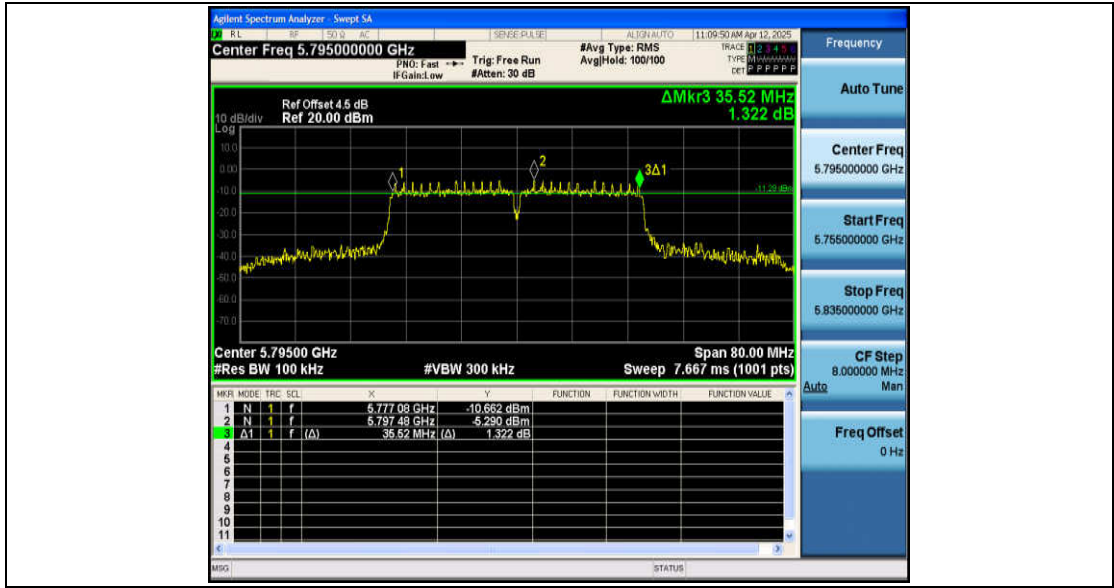
11AX20SISO_Ant1_5825



11AX40SISO_Ant1_5755



11AX40SISO_Ant1_5795



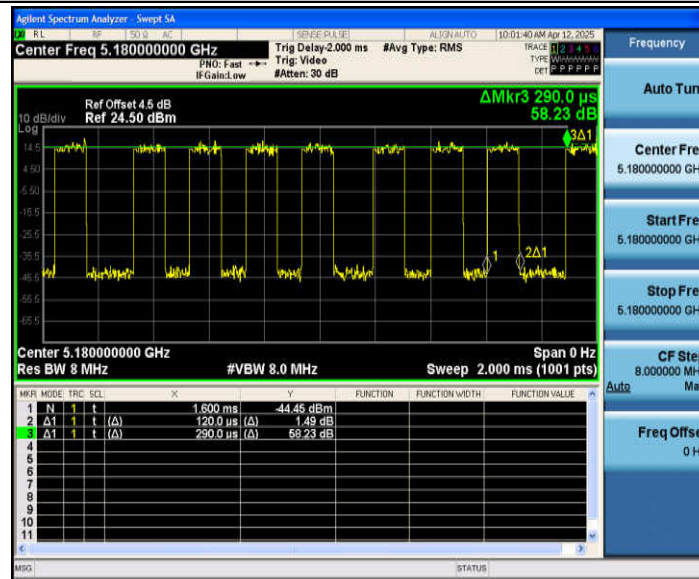
Appendix B: Duty Cycle

Test Result

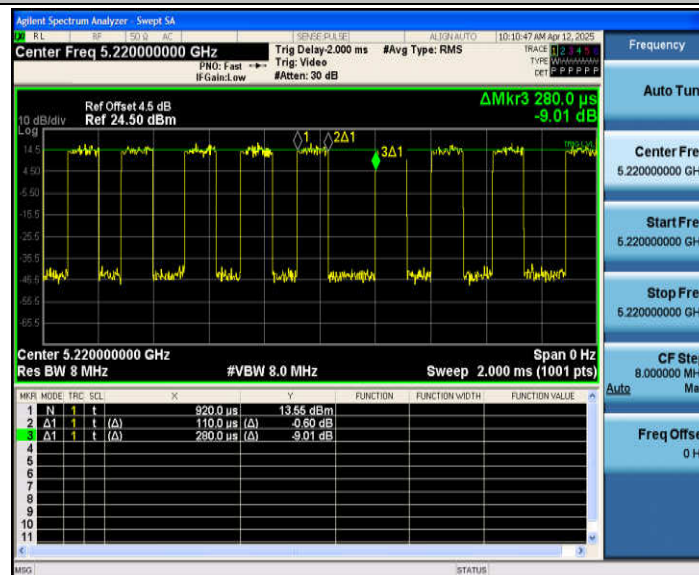
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty factor(dB)	Limit	Verdict
11A	Ant1	5180	0.12	0.29	41.38	3.83	---	---
		5220	0.11	0.28	39.29	4.06	---	---
		5240	0.11	0.29	37.93	4.21	---	---
		5745	0.11	0.29	37.93	4.21	---	---
		5785	0.11	0.24	45.83	3.39	---	---
		5825	0.11	0.28	39.29	4.06	---	---
11N20SISO	Ant1	5180	0.12	0.26	46.15	3.36	---	---
		5220	0.12	0.29	41.38	3.83	---	---
		5240	0.11	0.28	39.29	4.06	---	---
		5745	0.12	0.30	40.00	3.98	---	---
		5785	0.12	0.30	40.00	3.98	---	---
		5825	0.11	0.27	40.74	3.90	---	---
11N40SISO	Ant1	5190	0.07	0.25	28.00	5.53	---	---
		5230	0.07	0.23	30.43	5.17	---	---
		5755	0.07	0.26	26.92	5.70	---	---
		5795	0.07	0.24	29.17	5.35	---	---
11AC20SISO	Ant1	5180	0.12	0.29	41.38	3.83	---	---
		5220	0.12	0.29	41.38	3.83	---	---
		5240	0.12	0.32	37.50	4.26	---	---
		5745	0.12	0.24	50.00	3.01	---	---
		5785	0.12	0.26	46.15	3.36	---	---
		5825	0.12	0.29	41.38	3.83	---	---
11AC40SISO	Ant1	5190	0.08	0.25	32.00	4.95	---	---
		5230	0.08	0.23	34.78	4.59	---	---
		5755	0.08	0.24	33.33	4.77	---	---
		5795	0.08	0.23	34.78	4.59	---	---
11AX20SISO	Ant1	5180	0.12	0.29	41.38	3.83	---	---
		5220	0.12	0.33	36.36	4.39	---	---
		5240	0.12	0.28	42.86	3.68	---	---
		5745	0.12	0.29	41.38	3.83	---	---
		5785	0.12	0.29	41.38	3.83	---	---
		5825	0.12	0.29	41.38	3.83	---	---
11AX40SISO	Ant1	5190	0.07	0.25	28.00	5.53	---	---
		5230	0.08	0.25	32.00	4.95	---	---
		5755	0.08	0.22	36.36	4.39	---	---
		5795	0.08	0.26	30.77	5.12	---	---

Test Graphs

11A_Ant1_5180



11A_Ant1_5220



11A_Ant1_5240