

Appendix RF Test Data for 5GWIFI

FCC ID : 2BRT3-LC-CP86

Company : Huizhou LcLink tech Co.,Ltd.

EUT : USB Converter

Model Number : LC-CP86

Report No. : CTA25081200202

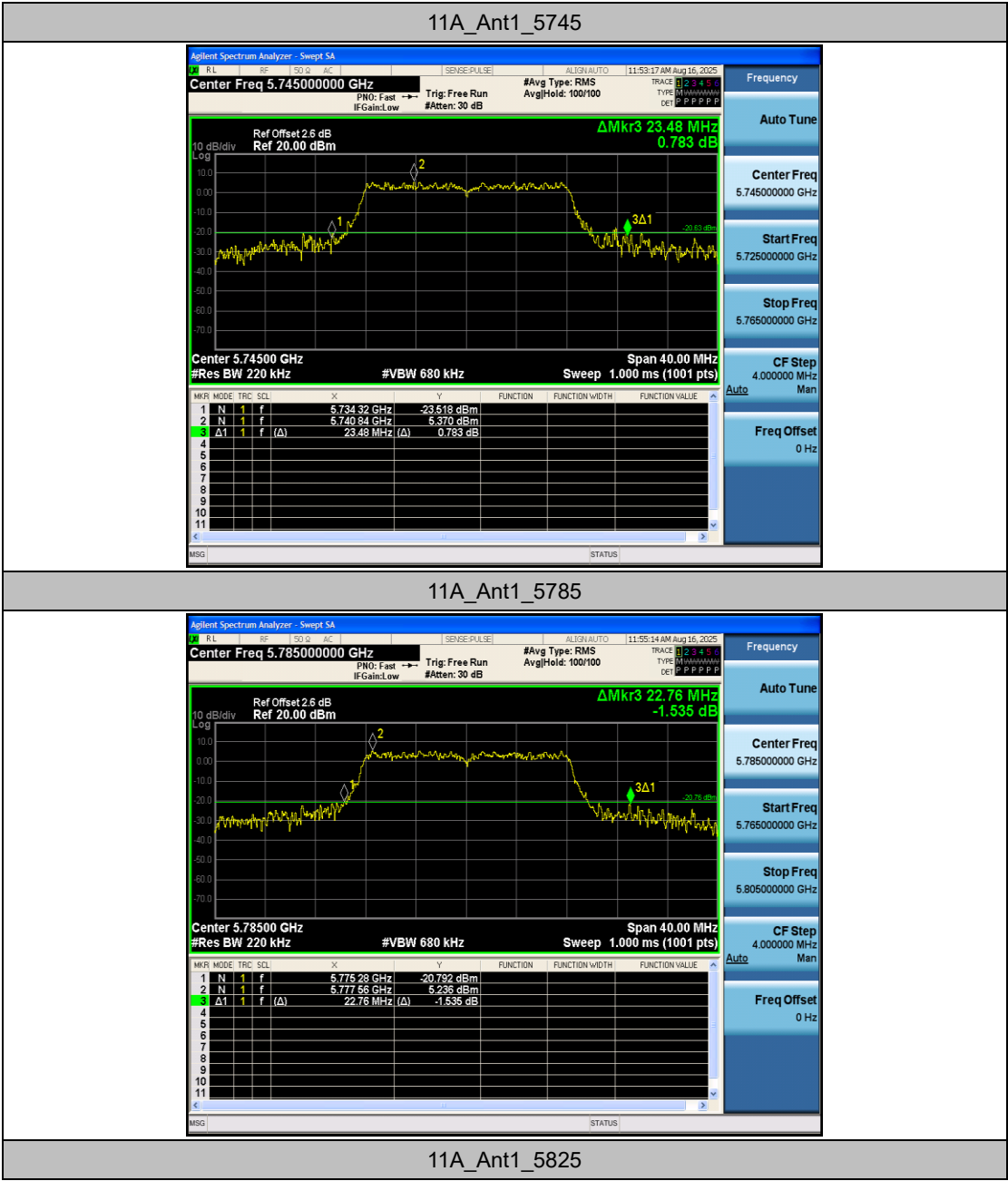
Reviewed By : Eric Wang

Appendix A1: Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	23.480	5734.320	5757.800	---	---
		5785	22.760	5775.280	5798.040	---	---
		5825	22.440	5814.760	5837.200	---	---
		5825	22.440	5814.760	5837.200	---	---
11N20SISO	Ant1	5745	23.120	5732.120	5755.240	---	---
		5785	24.800	5773.440	5798.240	---	---
		5825	26.200	5811.160	5837.360	---	---
11N40SISO	Ant1	5190	40.480	5169.760	5210.240	---	---
		5755	47.200	5729.080	5776.280	---	---
		5795	48.640	5775.240	5823.880	---	---
11AC20SISO	Ant1	5745	28.400	5732.520	5760.920	---	---
		5785	29.880	5769.960	5799.840	---	---
		5825	26.000	5812.800	5838.800	---	---
11AC40SISO	Ant1	5755	47.200	5730.600	5777.800	---	---
		5795	44.960	5771.640	5816.600	---	---
11AX20SISO	Ant1	5745	25.600	5732.920	5758.520	---	---
		5785	22.200	5774.320	5796.520	---	---
		5825	29.320	5809.960	5839.280	---	---
11AX40SISO	Ant1	5755	45.520	5730.760	5776.280	---	---
		5795	40.320	5775.400	5815.720	---	---

Test Graphs

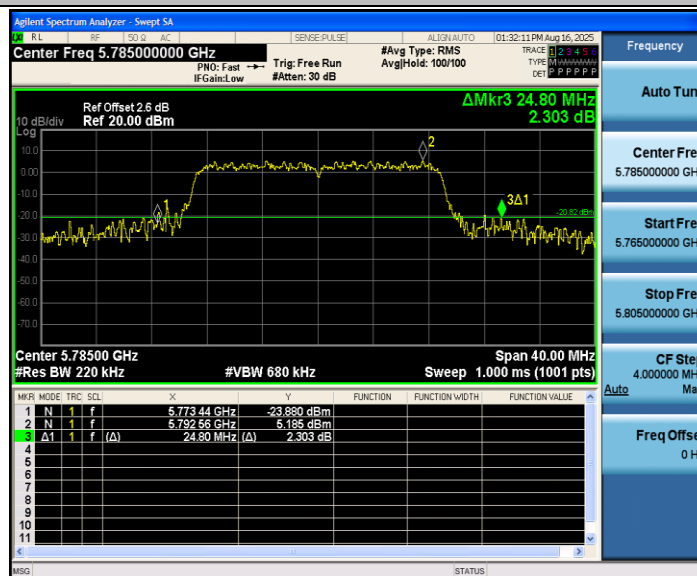




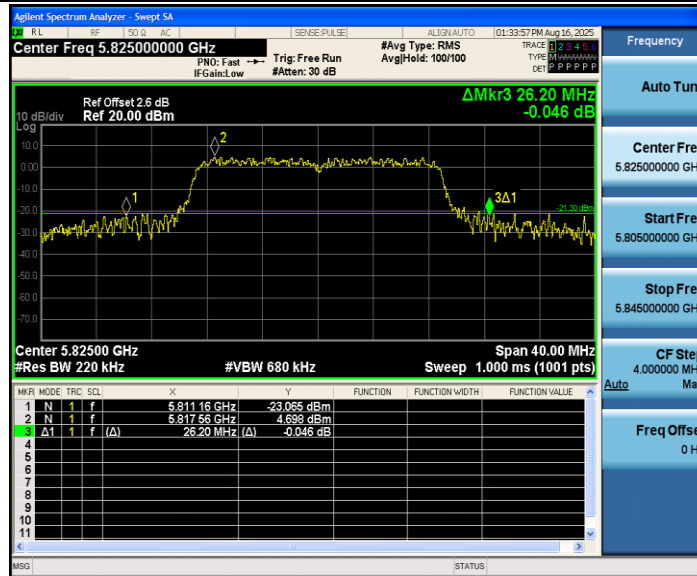
11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5190



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



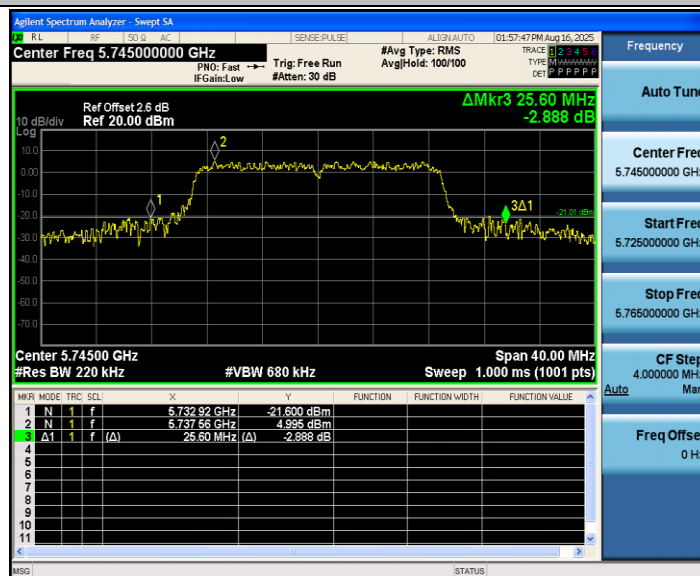
11AC40SISO_Ant1_5755



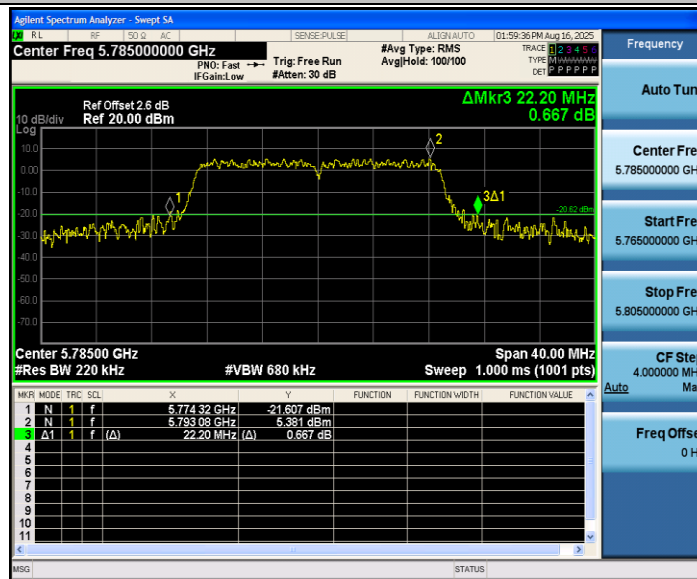
11AC40SISO_Ant1_5795



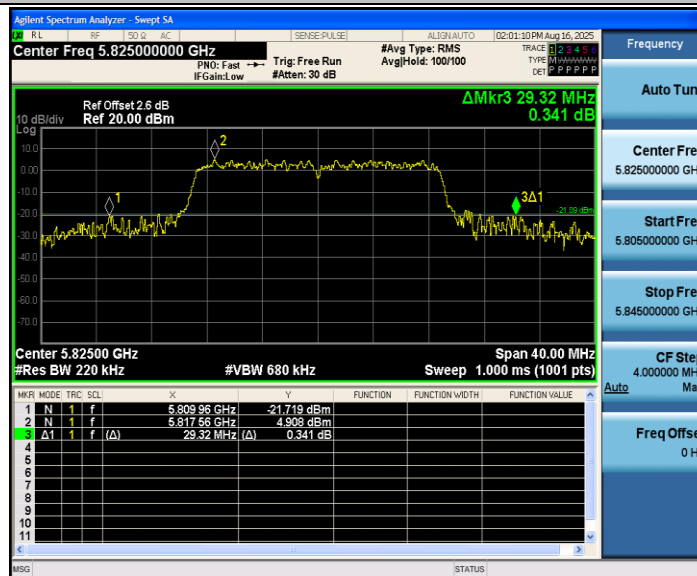
11AX20SISO_Ant1_5745



11AX20SISO_Ant1_5785



11AX20SISO_Ant1_5825



11AX40SISO_Ant1_5755



11AX40SISO_Ant1_5795

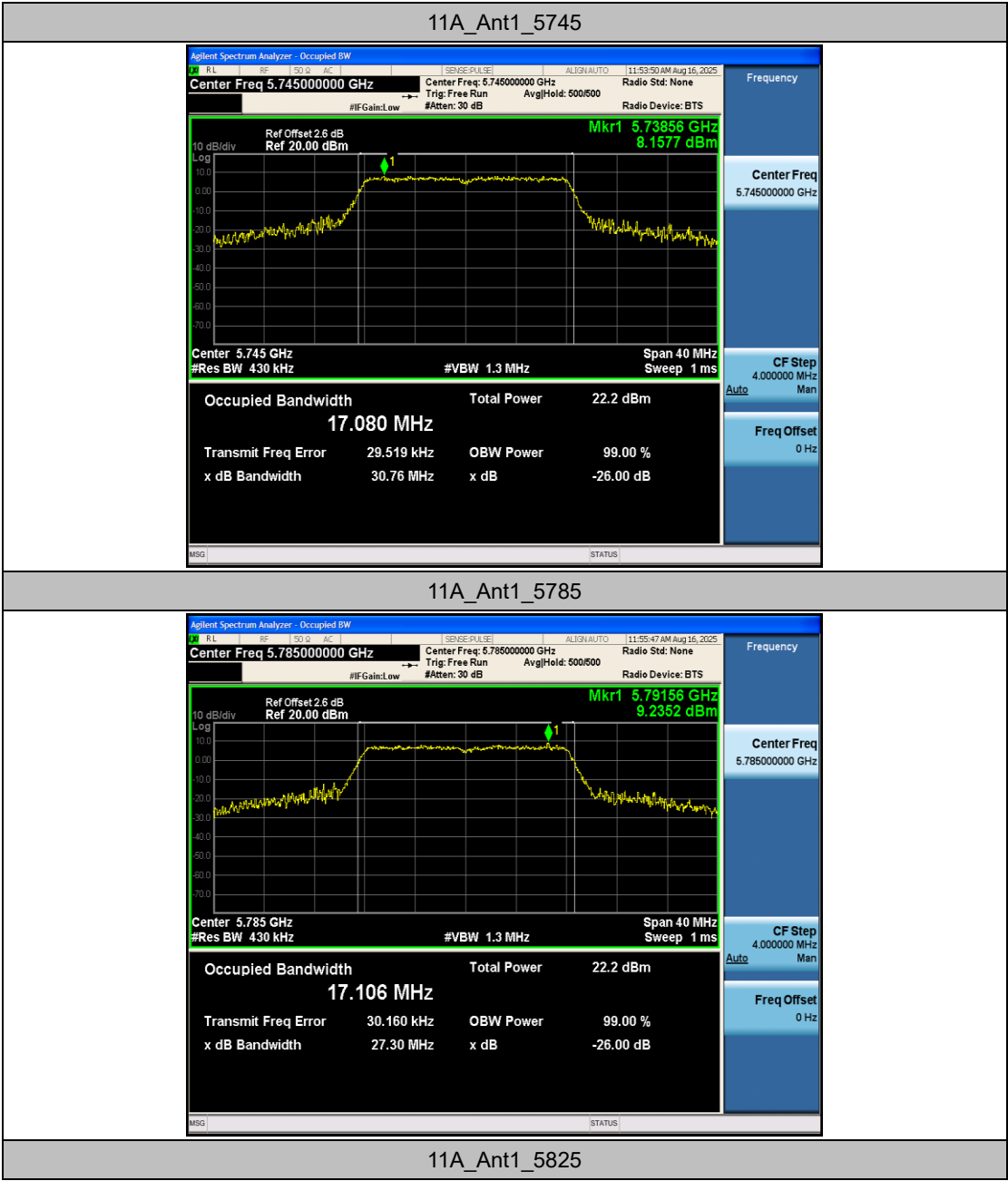


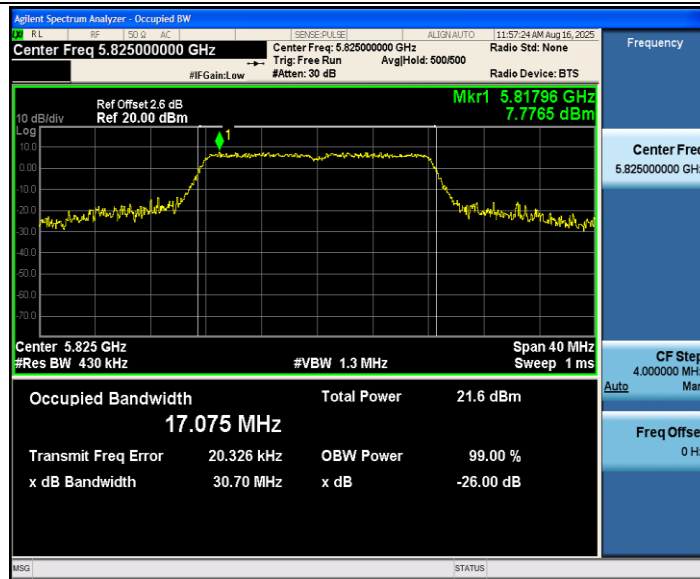
Appendix A2: Occupied channel bandwidth

Test Result

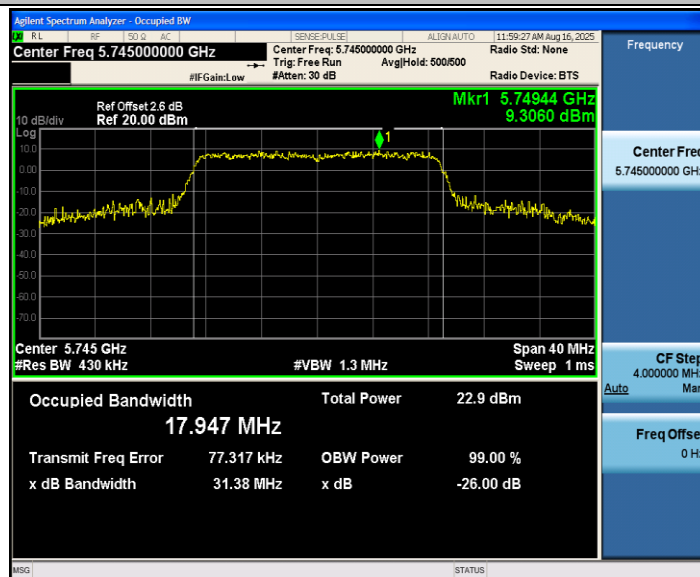
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	17.080	5736.4895	5753.5695	---	---
		5785	17.106	5776.4772	5793.5832	---	---
		5825	17.075	5816.4828	5833.5578	---	---
11N20SISO	Ant1	5745	17.947	5736.1038	5754.0508	---	---
		5785	17.958	5776.0498	5794.0078	---	---
		5825	17.899	5816.0689	5833.9679	---	---
11N40SISO	Ant1	5755	36.695	5736.7300	5773.4250	---	---
		5795	36.674	5776.7016	5813.3756	---	---
11AC20SISO	Ant1	5745	17.942	5736.0616	5754.0036	---	---
		5785	17.949	5776.1024	5794.0514	---	---
		5825	17.994	5816.0337	5834.0277	---	---
11AC40SISO	Ant1	5755	36.747	5736.6667	5773.4137	---	---
		5795	36.690	5776.6728	5813.3628	---	---
11AX20SISO	Ant1	5745	17.960	5736.0564	5754.0164	---	---
		5785	17.984	5776.0513	5794.0353	---	---
		5825	17.933	5816.0690	5834.0020	---	---
11AX40SISO	Ant1	5755	36.716	5736.6814	5773.3974	---	---
		5795	36.630	5776.7427	5813.3727	---	---

Test Graphs

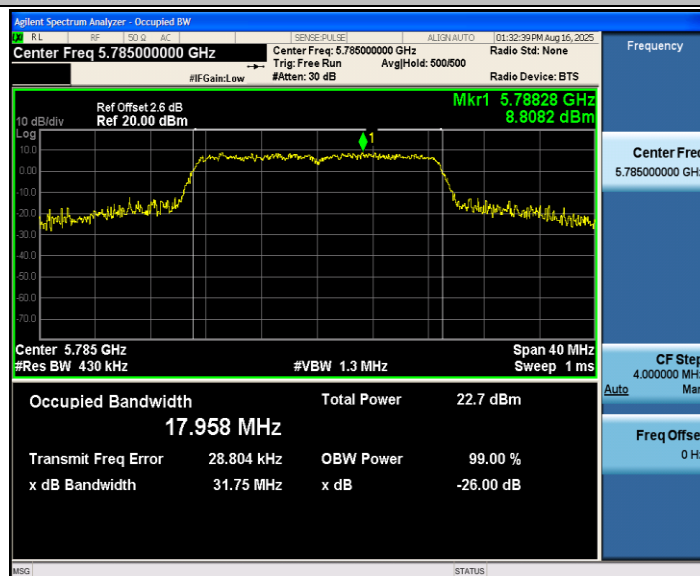




11N20SISO_Ant1_5745



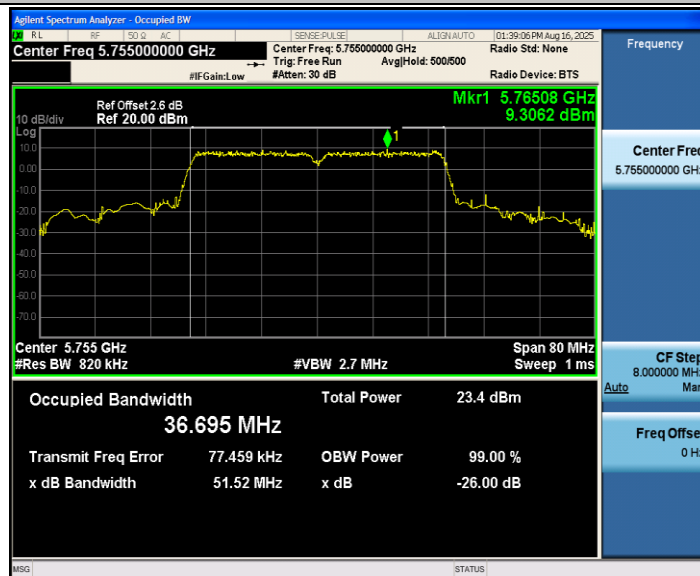
11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



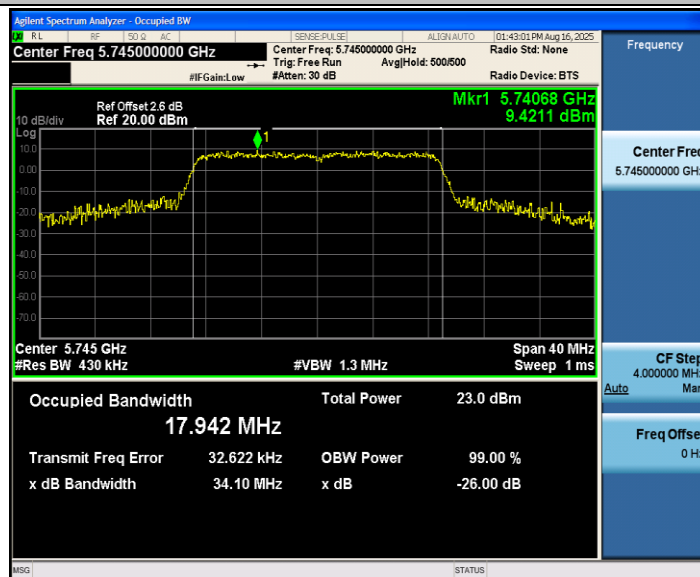
11N40SISO_Ant1_5755



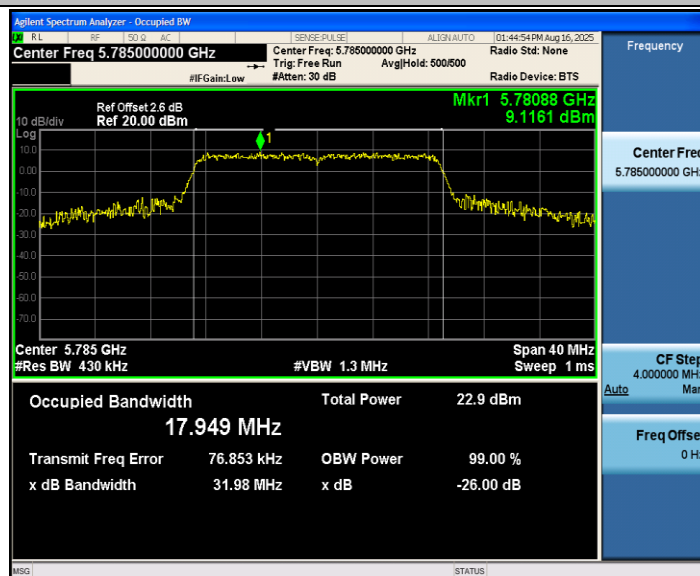
11N40SISO_Ant1_5795



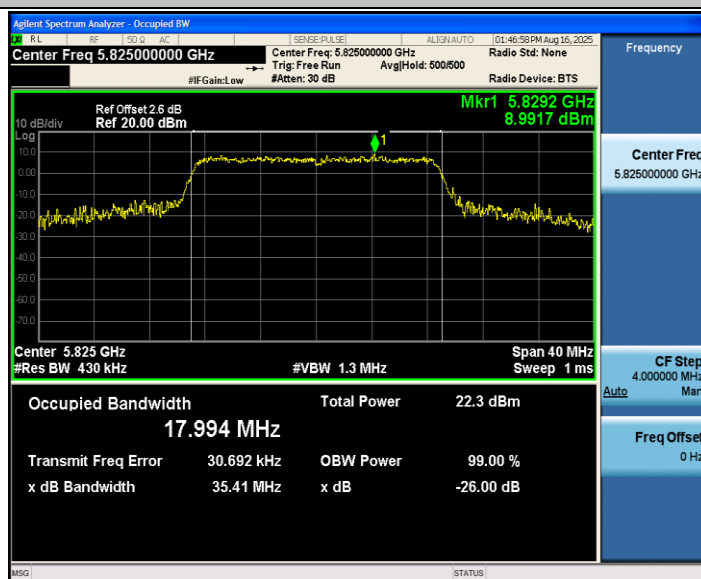
11AC20SISO_Ant1_5745



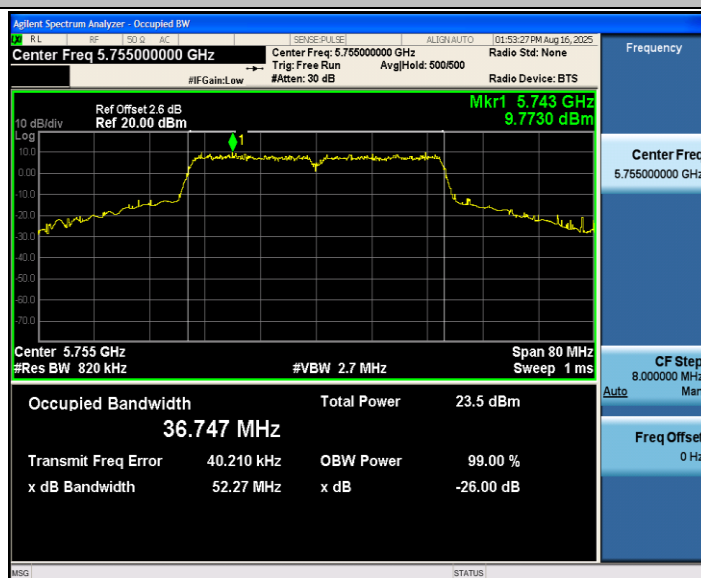
11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



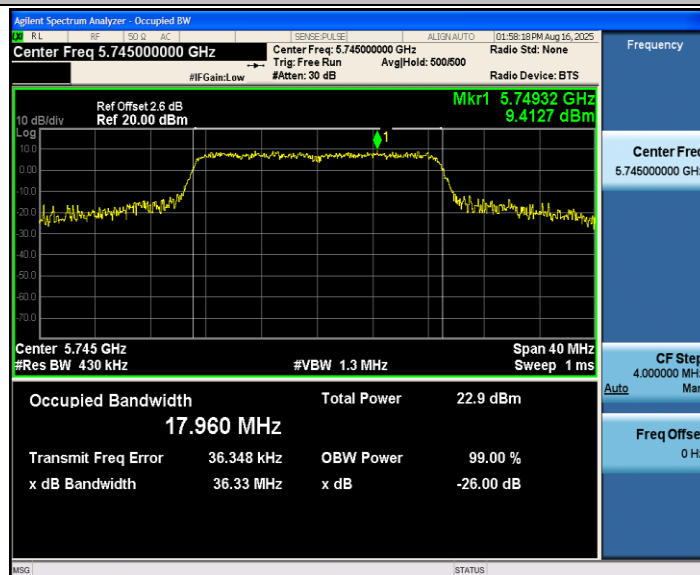
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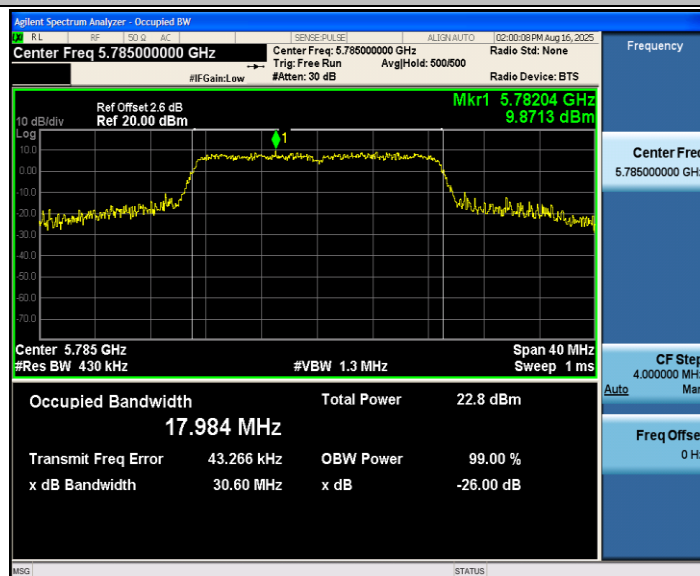
11AC40SISO_Ant1_5795



11AX20SISO_Ant1_5745



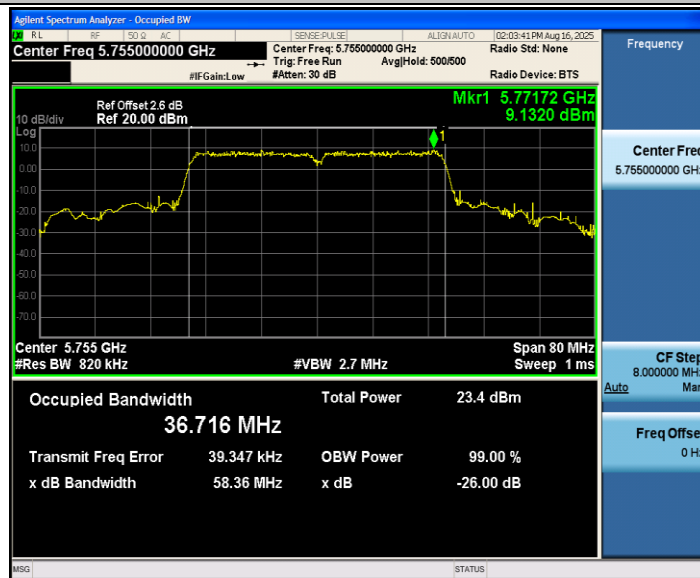
11AX20SISO_Ant1_5785



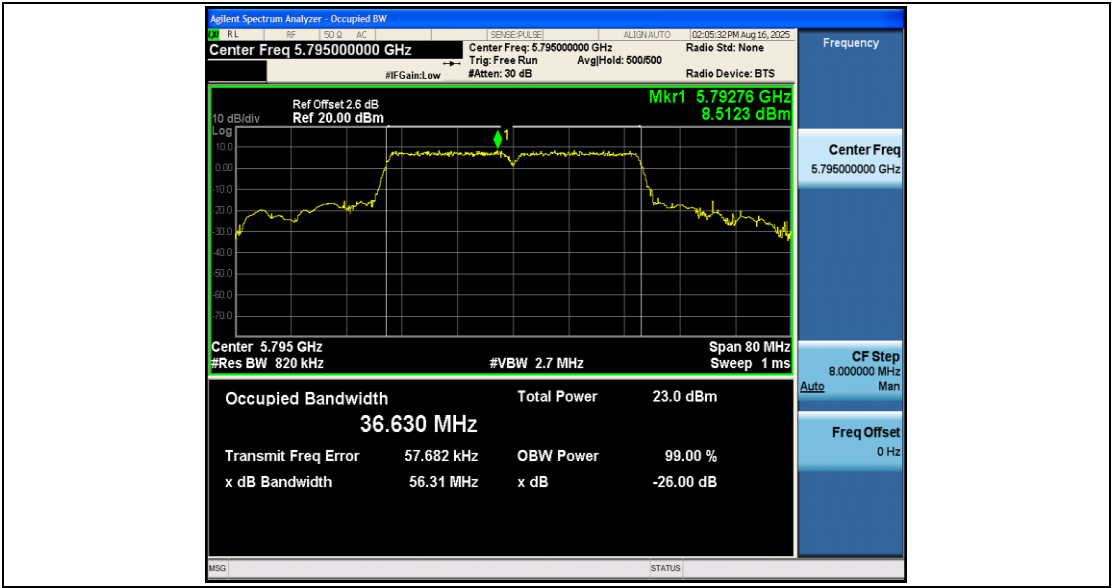
11AX20SISO_Ant1_5825



11AX40SISO_Ant1_5755



11AX40SISO_Ant1_5795

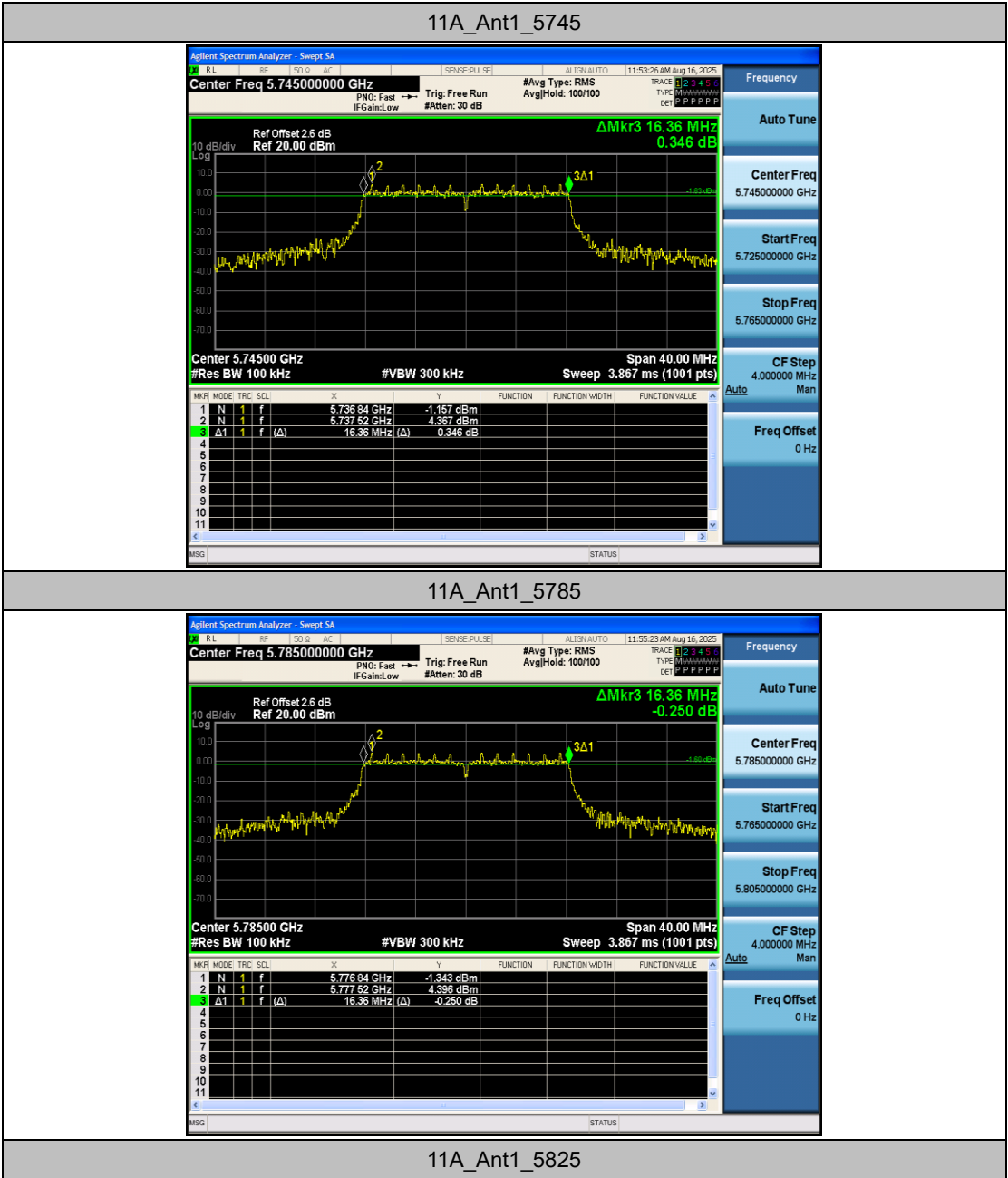


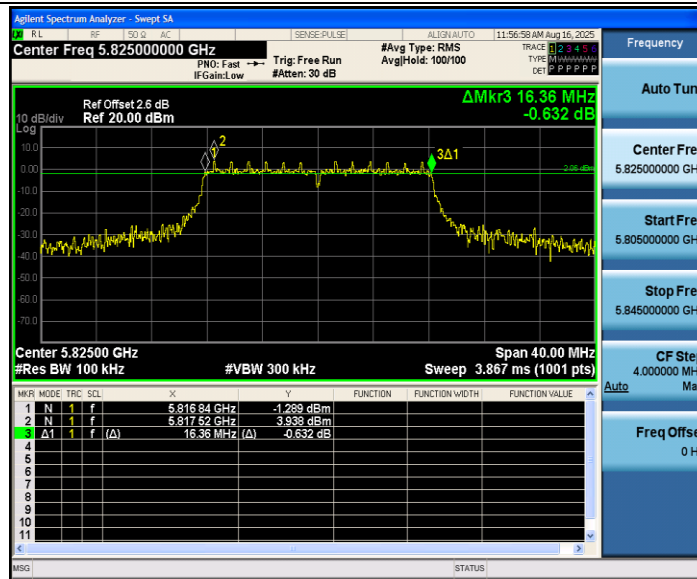
Appendix A3: Min emission bandwidth

Test Result B4

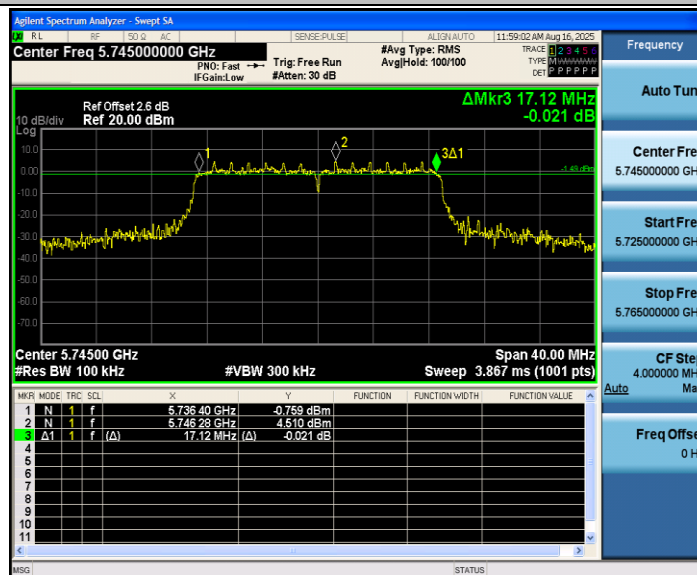
TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.360	5736.840	5753.200	0.5	PASS
		5785	16.360	5776.840	5793.200	0.5	PASS
		5825	16.360	5816.840	5833.200	0.5	PASS
11N20SISO	Ant1	5745	17.120	5736.400	5753.520	0.5	PASS
		5785	17.160	5776.520	5793.680	0.5	PASS
		5825	17.240	5816.400	5833.640	0.5	PASS
11N40SISO	Ant1	5755	36.160	5737.080	5773.240	0.5	PASS
		5795	36.000	5777.000	5813.000	0.5	PASS
11AC20SISO	Ant1	5745	17.160	5736.440	5753.600	0.5	PASS
		5785	17.240	5776.400	5793.640	0.5	PASS
		5825	17.320	5816.240	5833.560	0.5	PASS
11AC40SISO	Ant1	5755	36.240	5736.840	5773.080	0.5	PASS
		5795	35.840	5777.080	5812.920	0.5	PASS
11AX20SISO	Ant1	5745	17.120	5736.400	5753.520	0.5	PASS
		5785	17.240	5776.400	5793.640	0.5	PASS
		5825	17.520	5816.240	5833.760	0.5	PASS
11AX40SISO	Ant1	5755	35.840	5737.400	5773.240	0.5	PASS
		5795	35.840	5777.160	5813.000	0.5	PASS

Test Graphs B4

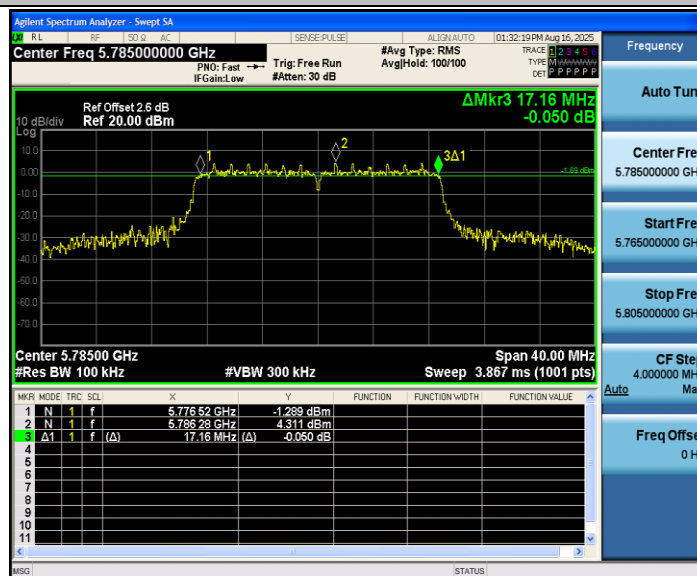


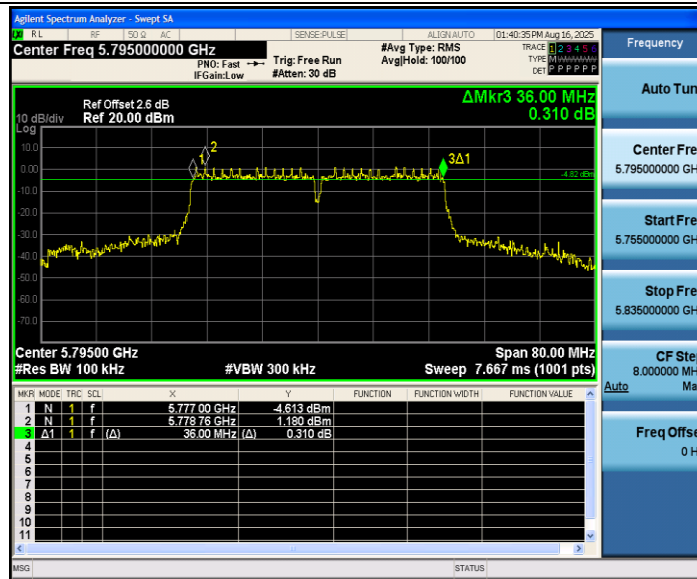


11N20SISO_Ant1_5745

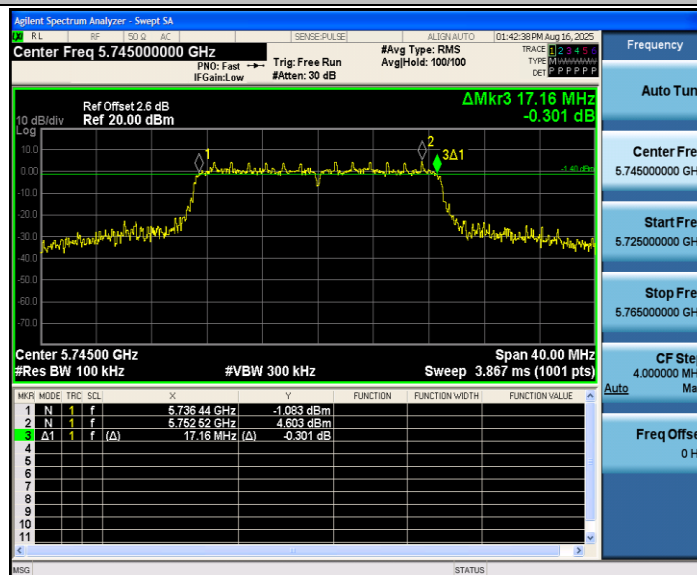


11N20SISO_Ant1_5785

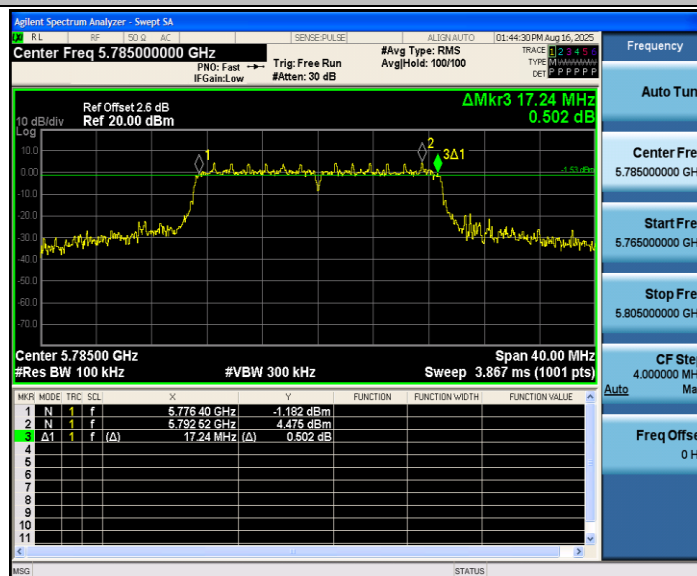




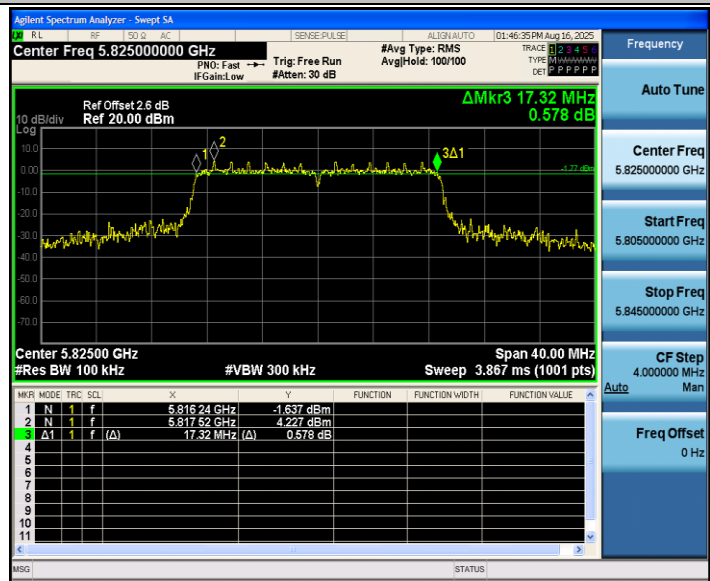
11AC20SISO_Ant1_5745



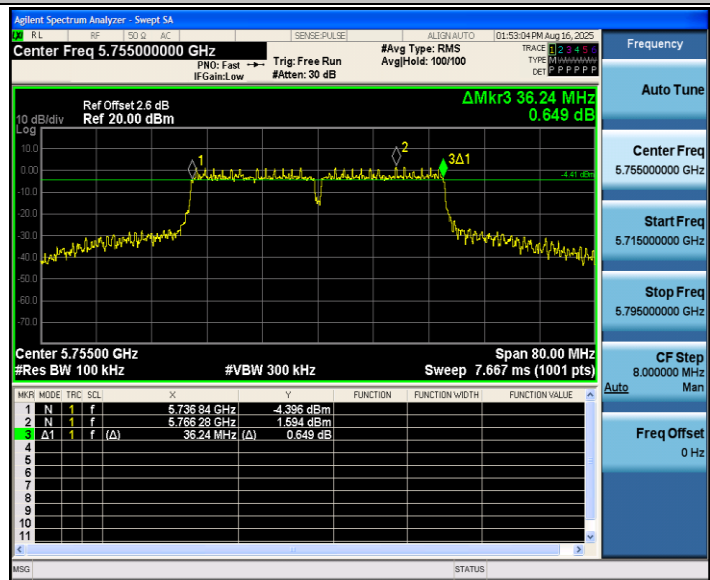
11AC20SISO_Ant1_5785



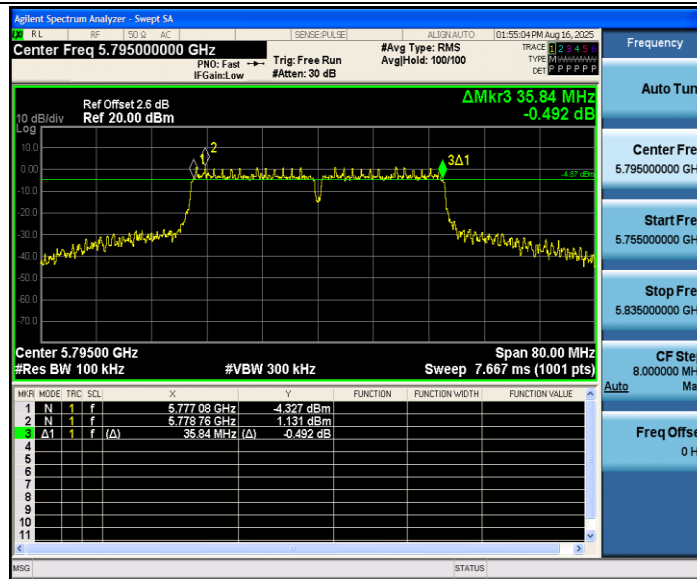
11AC20SISO_Ant1_5825



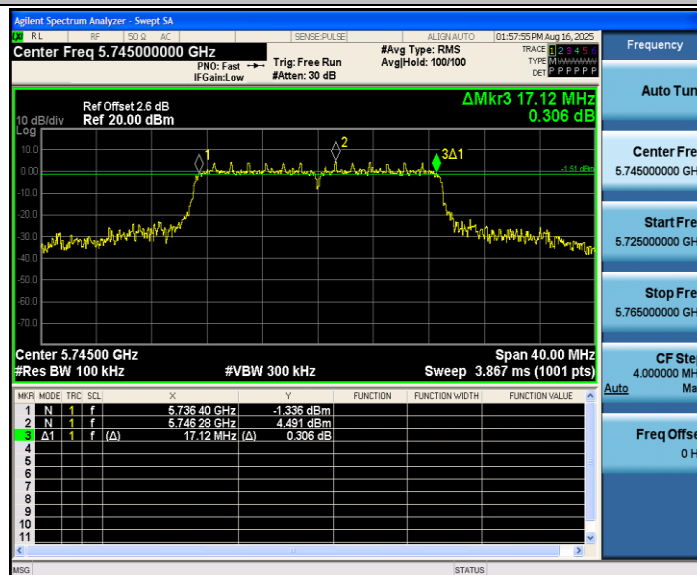
11AC40SISO_Ant1_5755



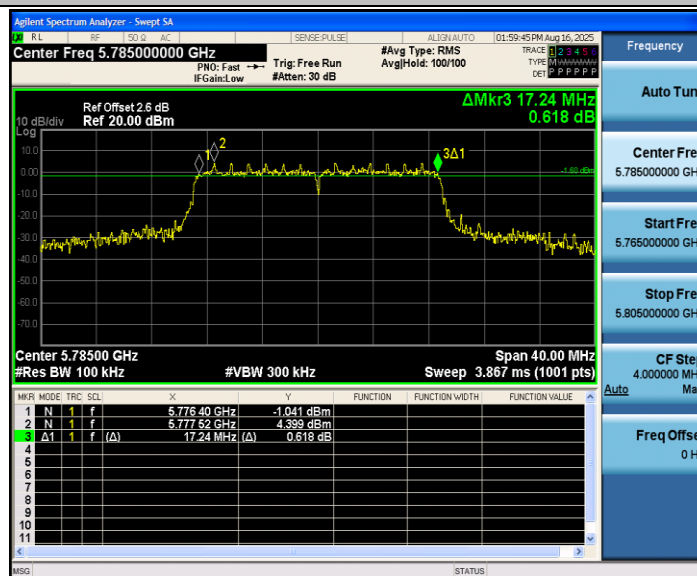
11AC40SISO_Ant1_5795



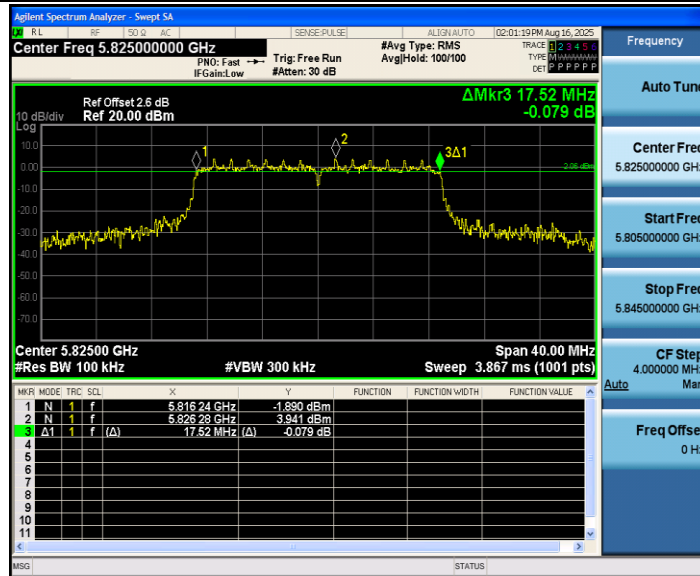
11AX20SISO_Ant1_5745



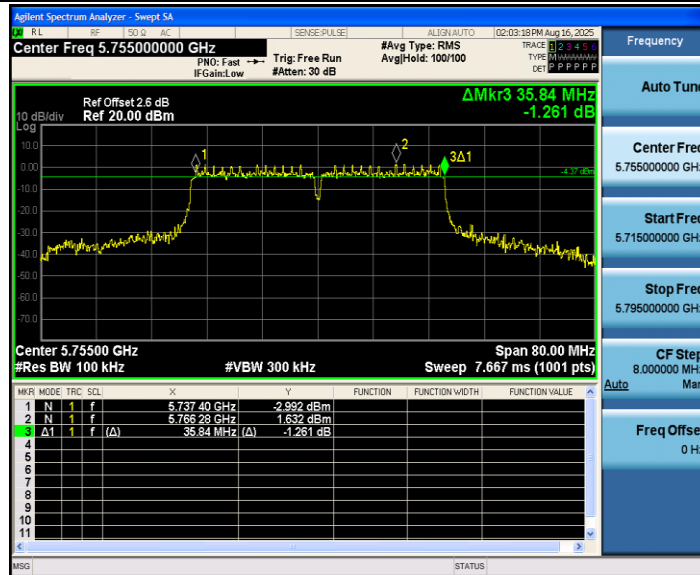
11AX20SISO_Ant1_5785



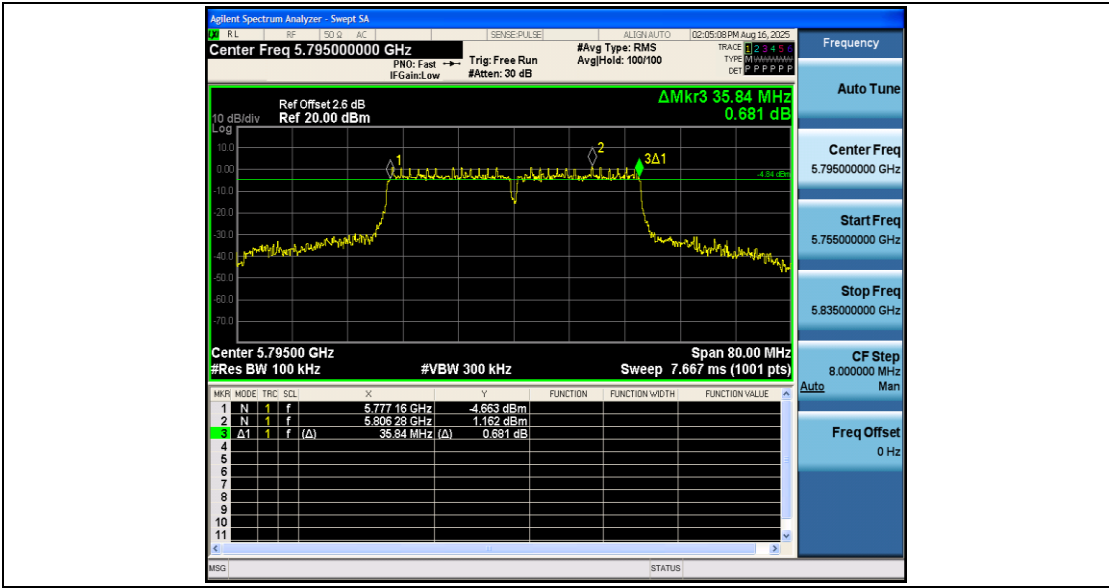
11AX20SISO_Ant1_5825



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	5745	0.11	0.18	61.11	2.14	---	---
		5785	0.11	0.18	61.11	2.14	---	---
		5825	0.11	0.18	61.11	2.14	---	---
11N20SISO	Ant1	5745	0.12	0.18	66.67	1.76	---	---
		5785	0.11	0.18	61.11	2.14	---	---
		5825	0.12	0.18	66.67	1.76	---	---
11N40SISO	Ant1	5755	0.08	0.14	57.14	2.43	---	---
		5795	0.08	0.14	57.14	2.43	---	---
11AC20SISO	Ant1	5745	0.12	0.18	66.67	1.76	---	---
		5785	0.12	0.18	66.67	1.76	---	---
		5825	0.12	0.19	63.16	2.00	---	---
11AC40SISO	Ant1	5755	0.08	0.15	53.33	2.73	---	---
		5795	0.08	0.15	53.33	2.73	---	---
11AX20SISO	Ant1	5745	0.11	0.18	61.11	2.14	---	---
		5785	0.11	0.18	61.11	2.14	---	---
		5825	0.12	0.18	66.67	1.76	---	---
11AX40SISO	Ant1	5755	0.07	0.14	50.00	3.01	---	---
		5795	0.08	0.14	57.14	2.43	---	---

11A_Ant1_5745

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.745000000 GHz

Trig Delay: 2.000 ms #Avg Type: RMS

Ref Offset 2.6 dB Ref 22.60 dBm

ΔMkr3 180.0 μs -0.01 dB

Center 5.745000000 GHz Res BW 8 MHz #VBW 8.0 MHz Sweep 5.000 ms (1001 pts) Span 0 Hz

MFR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t	4.860 ms	17.00 dBm			
2	Δ1	1	t	110.0 μs (Δ)	1.01 dB			
3	Δ1	1	t	180.0 μs (Δ)	-0.01 dB			

11A_Ant1_5785

Agilent Spectrum Analyzer - Swept SA

Center Freq 5.785000000 GHz

Trig Delay: 2.000 ms #Avg Type: RMS

Ref Offset 2.6 dB Ref 22.60 dBm

ΔMkr3 180.0 μs 0.00 dB

Center 5.785000000 GHz Res BW 8 MHz #VBW 8.0 MHz Sweep 5.000 ms (1001 pts) Span 0 Hz

MFR	MODE	TRIG	SCL	X	Y	FUNCTION	FUNCTION WIDTH	FUNCTION VALUE
1	N	1	t	1.970 ms	17.59 dBm			
2	Δ1	1	t	110.0 μs (Δ)	0.98 dB			
3	Δ1	1	t	180.0 μs (Δ)	0.00 dB			