FCC Appendix RF Test Data

FCC ID	**:**	**2BQTY-S1**
Company	**:**	**SHENZHEN XINLINK TIMESTECHNOLOGY CO., LTD.**
EUT	**:**	**Mobile Surveillance Robot**
Model Number	**:**	**Magic S1**
Report No.	**:**	**CTA25070800103**
Reviewed By	**:**	**Eric Wang**

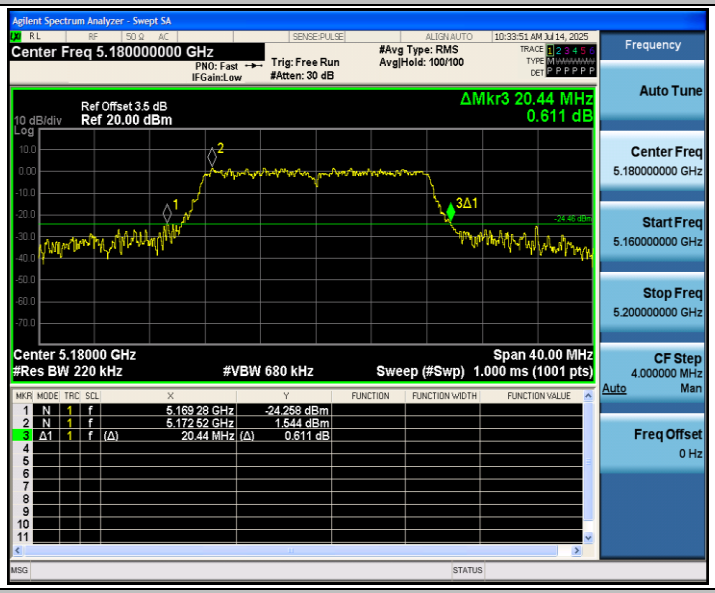
Appendix A1: Emission Bandwidth

Test Result

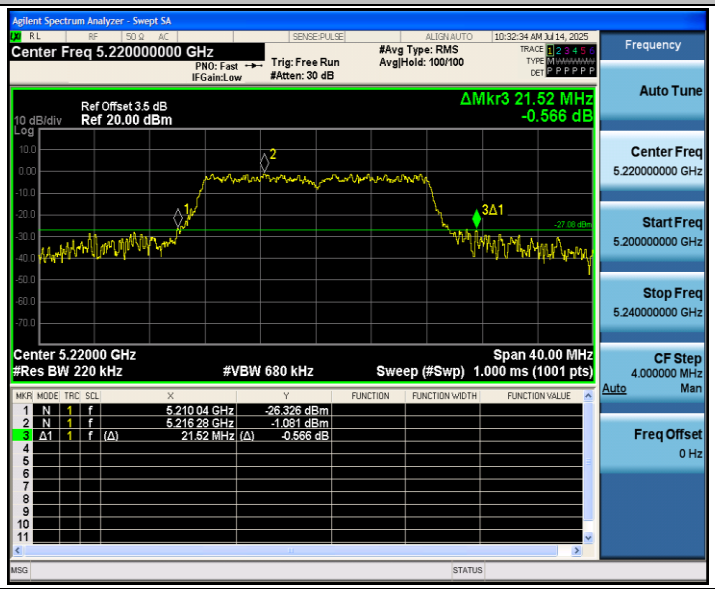
TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	20.440	5169.280	5189.720	---	---
		5220	21.520	5210.040	5231.560	---	---
		5240	21.760	5227.880	5249.640	---	---
		5260	22.440	5250.320	5272.760	---	---
		5300	21.680	5288.600	5310.280	---	---
		5320	27.320	5306.840	5334.160	---	---
		5500	23.200	5487.880	5511.080	---	---
		5580	26.400	5567.400	5593.800	---	---
		5700	21.000	5689.160	5710.160	---	---
		5745	21.520	5734.200	5755.720	---	---
		5785	20.280	5774.480	5794.760	---	---
		5825	20.680	5814.520	5835.200	---	---
11N20SISO	Ant1	5180	24.880	5167.720	5192.600	---	---
		5220	25.240	5207.400	5232.640	---	---
		5240	25.280	5227.280	5252.560	---	---
		5260	25.680	5246.760	5272.440	---	---
		5300	25.520	5287.120	5312.640	---	---
		5320	25.600	5307.160	5332.760	---	---
		5500	25.360	5487.480	5512.840	---	---
		5580	28.480	5565.240	5593.720	---	---
		5700	24.760	5687.880	5712.640	---	---
		5745	24.720	5732.800	5757.520	---	---
		5785	24.840	5772.880	5797.720	---	---
		5825	27.280	5812.800	5840.080	---	---
11N40SISO	Ant1	5190	43.920	5168.720	5212.640	---	---
		5230	48.480	5203.760	5252.240	---	---
		5270	50.480	5242.080	5292.560	---	---
		5310	49.040	5282.800	5331.840	---	---
		5510	61.920	5482.800	5544.720	---	---
		5550	61.920	5522.880	5584.800	---	---
		5670	43.280	5649.440	5692.720	---	---
		5755	47.360	5733.880	5781.240	---	---
		5795	43.920	5773.800	5817.720	---	---

Test Graphs

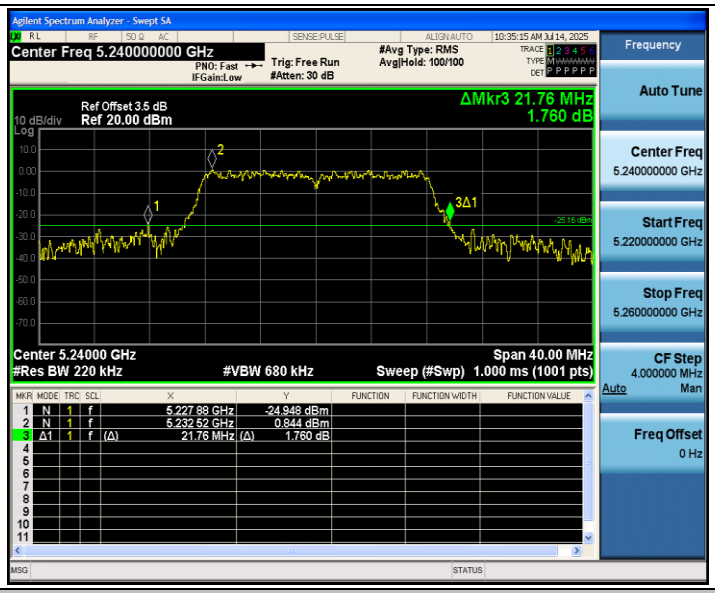
11A_Ant1_5180



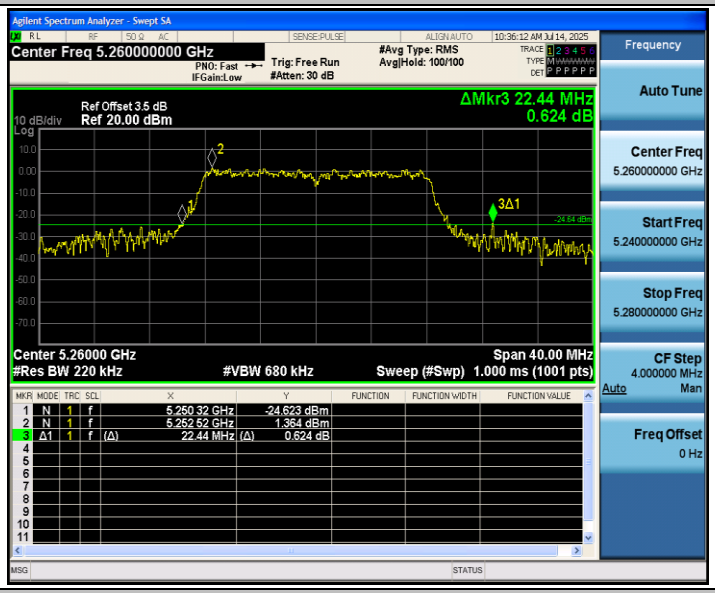
11A_Ant1_5220



11A_Ant1_5240

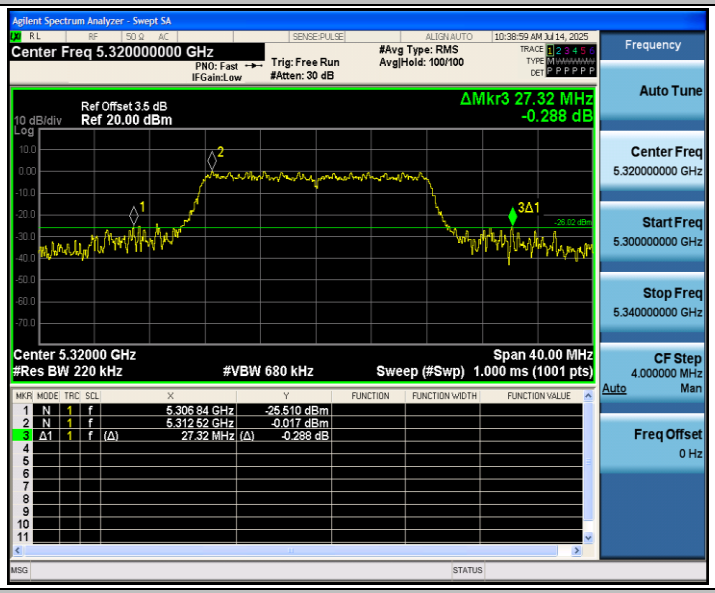


11A_Ant1_5260

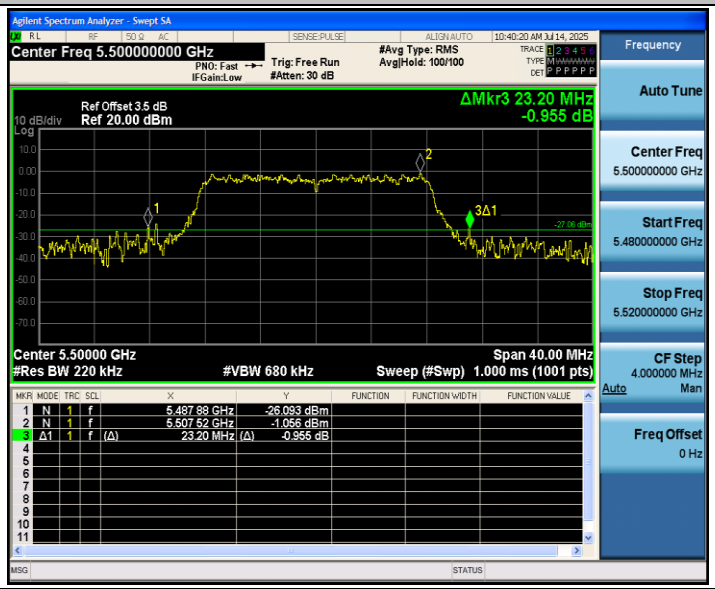


11A_Ant1_5300

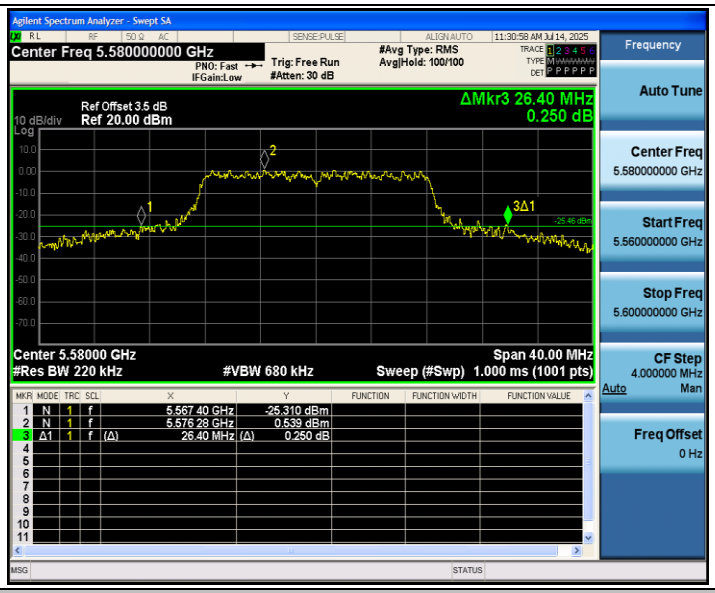
11A_Ant1_5320



11A_Ant1_5500

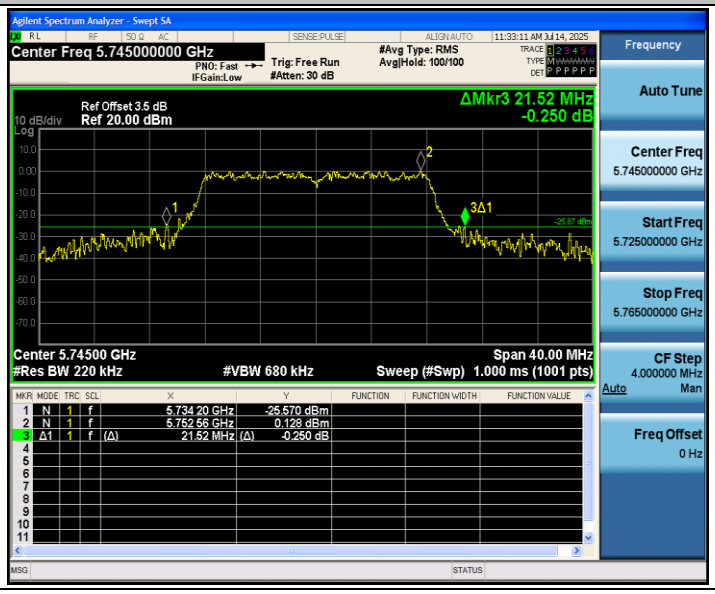


11A_Ant1_5580

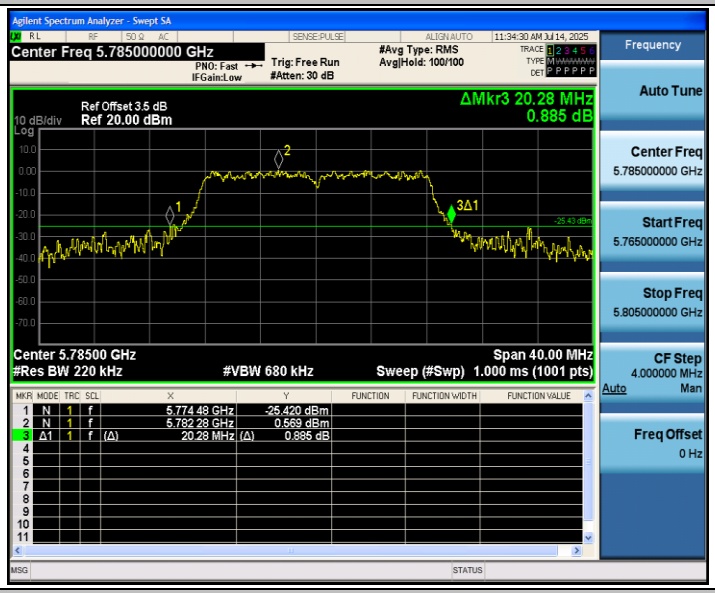


11A_Ant1_5700

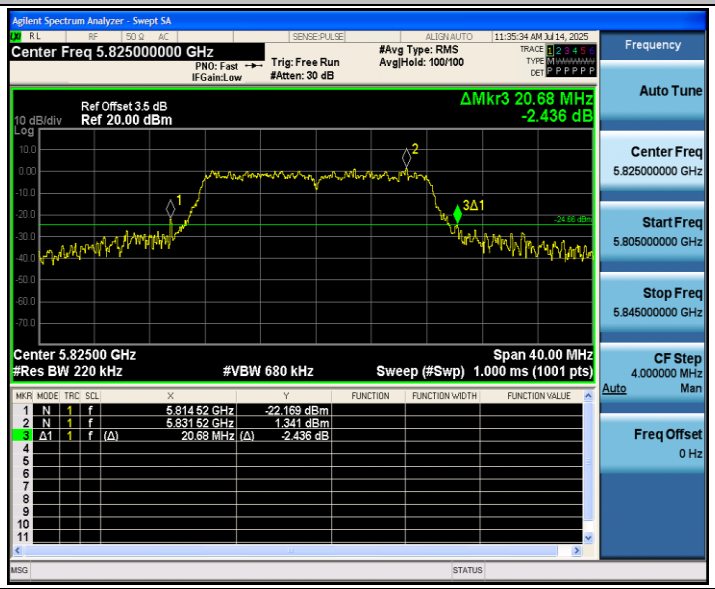
11A_Ant1_5745



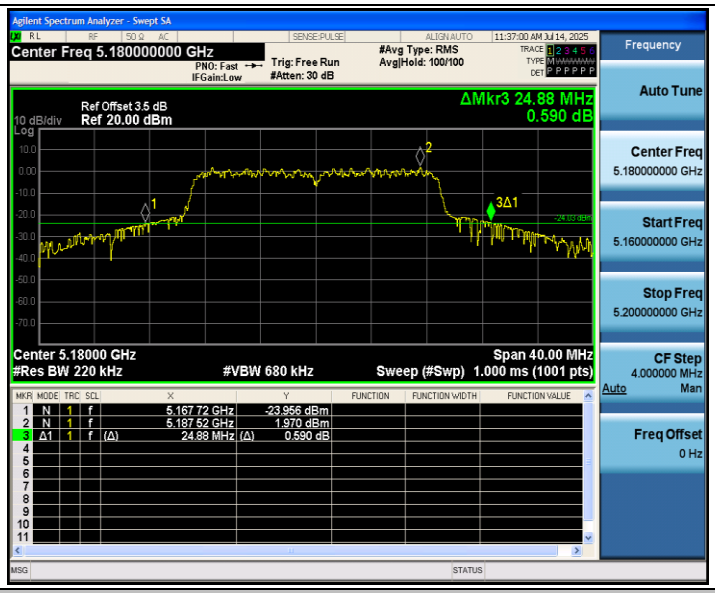
11A_Ant1_5785



11A_Ant1_5825



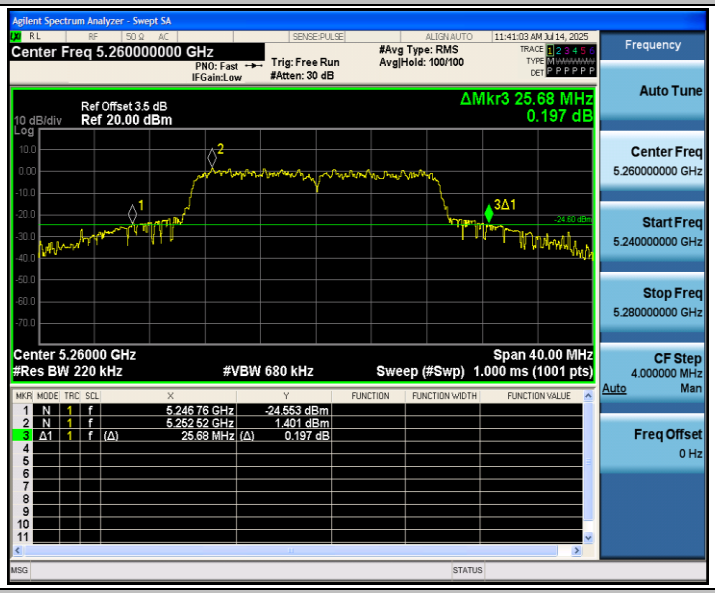
11N20SISO_Ant1_5180



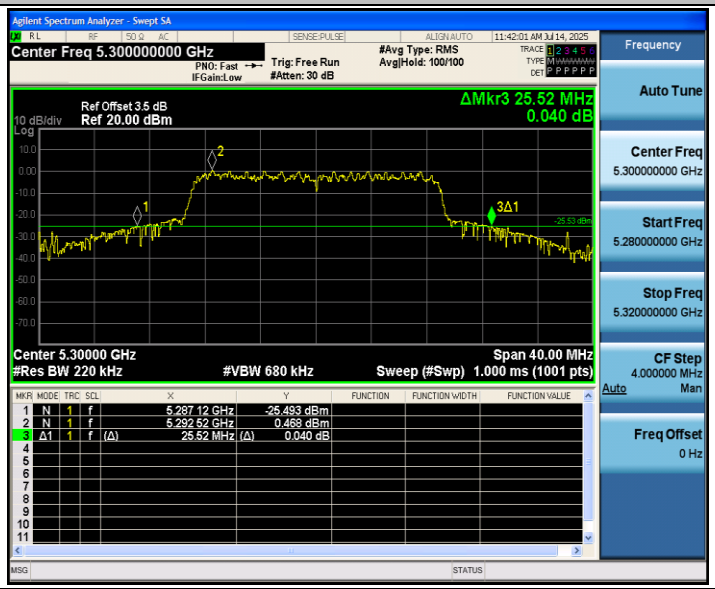
11N20SISO_Ant1_5220

11N20SISO_Ant1_5240

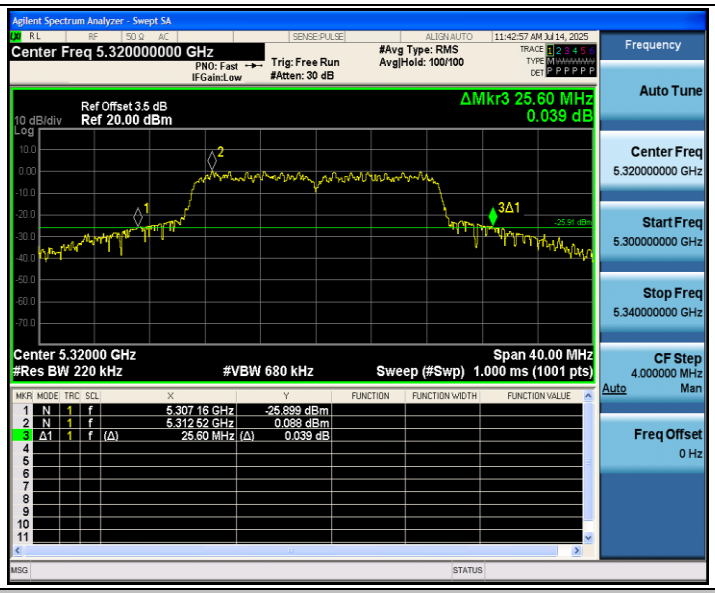
11N20SISO_Ant1_5260



11N20SISO_Ant1_5300



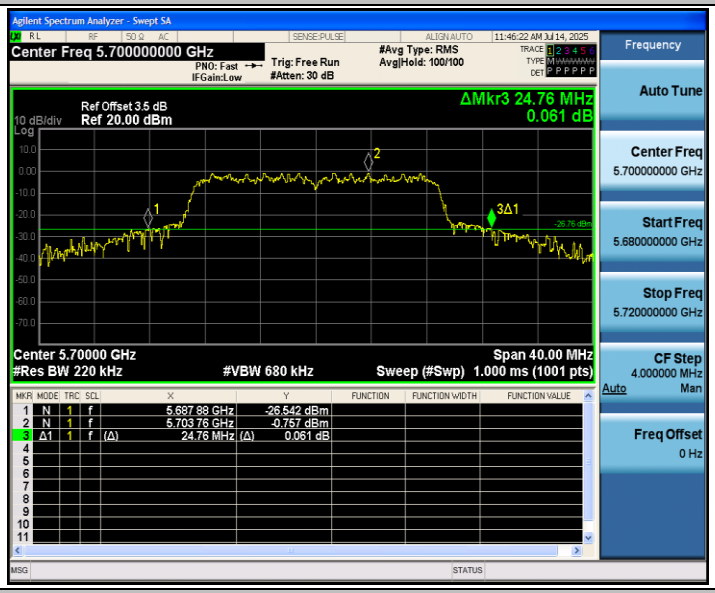
11N20SISO_Ant1_5320



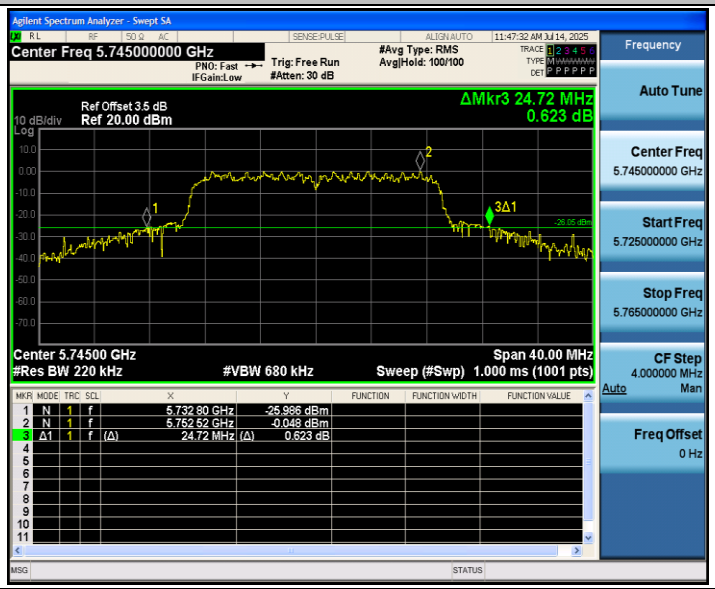
11N20SISO_Ant1_5500

11N20SISO_Ant1_5580

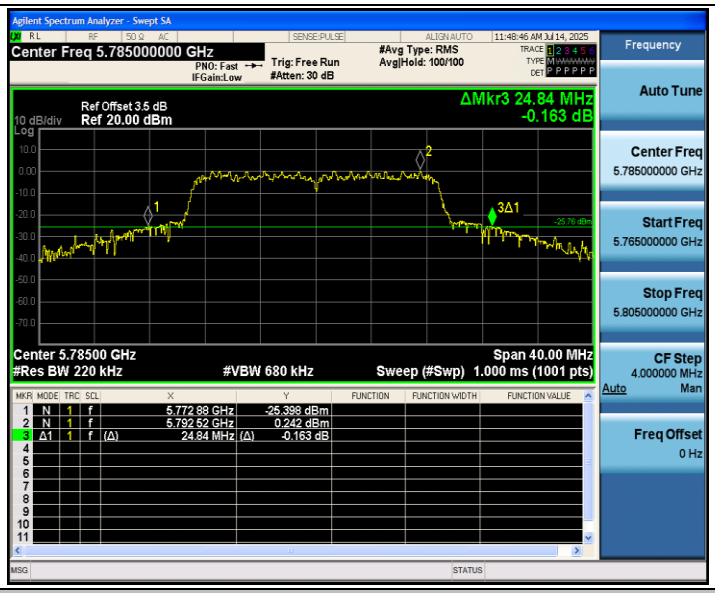
11N20SISO_Ant1_5700



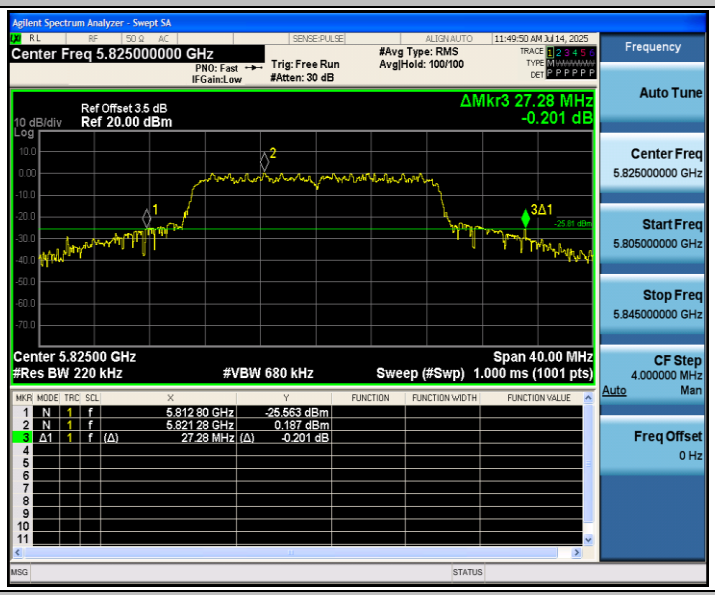
11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825

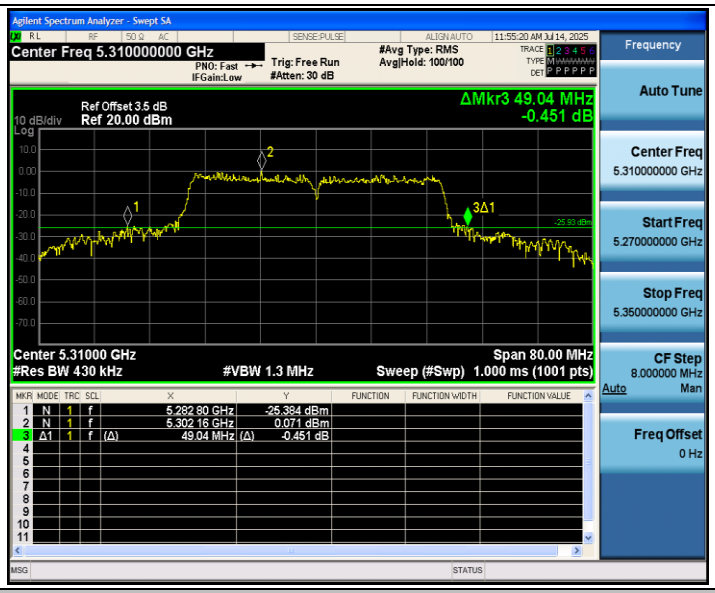


11N40SISO_Ant1_5190

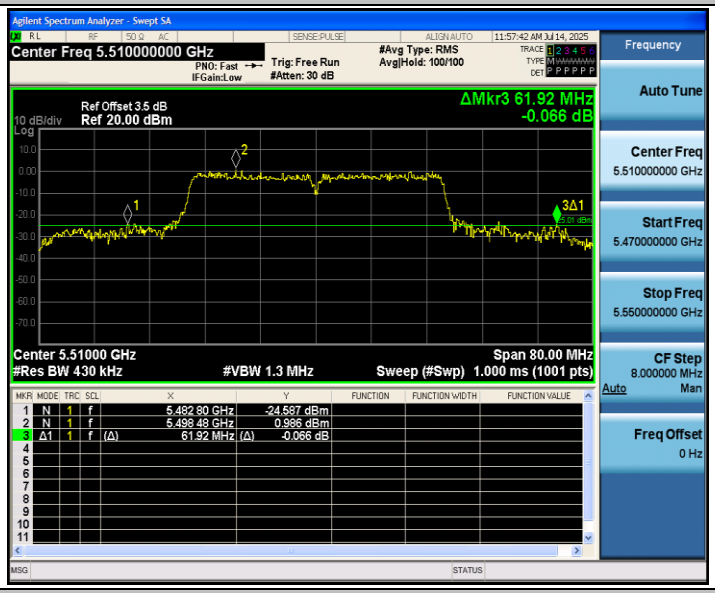
11N40SISO_Ant1_5230

11N40SISO_Ant1_5270

11N40SISO_Ant1_5310



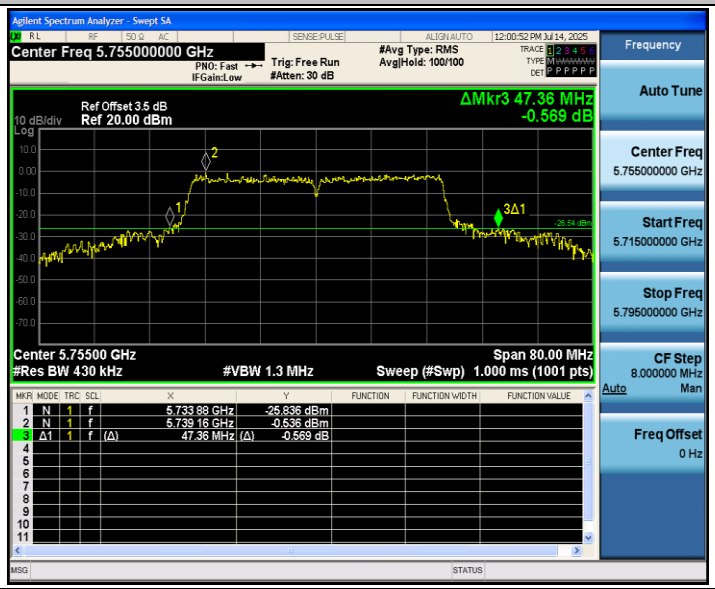
11N40SISO_Ant1_5510



11N40SISO_Ant1_5550

11N40SISO_Ant1_5670

11N40SISO_Ant1_5755



11N40SISO_Ant1_5795

Agilent Spectrum Analyzer - Swept SA
Center Freq 5.795000000 GHz
PNO: Fast
IFGain:Low
Trig: Free Run
#Atten: 30 dB
#Avg Type: RMS
Avg|Hold: 100/100
12:02:18 PM Jul 14, 2025
Ref Offset 3.5 dB
10 dB/div
Ref 20.00 dBm
ΔMkr3 43.92 MHz
3.014 dB
Center 5.79500 GHz
#Res BW 430 kHz
#VBW 1.3 MHz
Span 80.00 MHz
Sweep (#Swp) 1.000 ms (1001 pts)
1 N 1 f 5.773 80 GHz -25.689 dBm
2 N 1 f 5.798 28 GHz 0.036 dBm
3 Δ1 1 f (Δ) 43.92 MHz (Δ) 3.014 dB
Frequency
Auto Tune
Center Freq
5.795000000 GHz
Start Freq
5.755000000 GHz
Stop Freq
5.835000000 GHz
CF Step
8.000000 MHz
Auto Man
Freq Offset
0 Hz

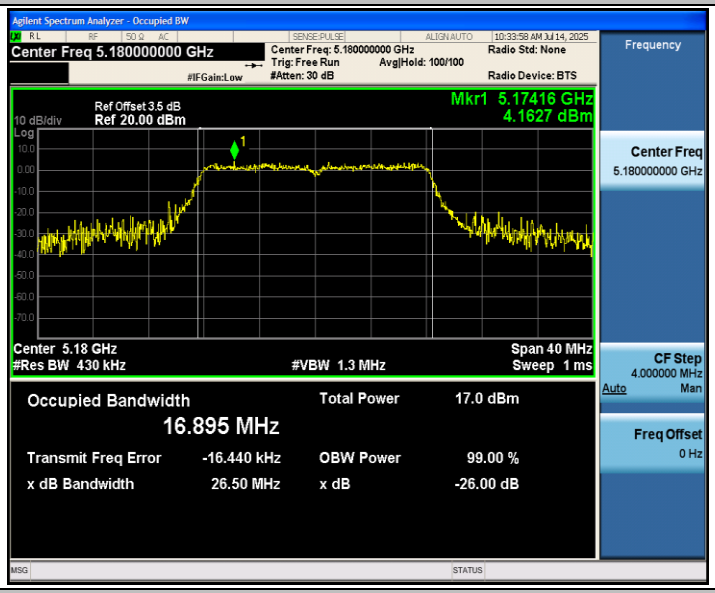
Appendix A2: Occupied channel bandwidth

Test Result

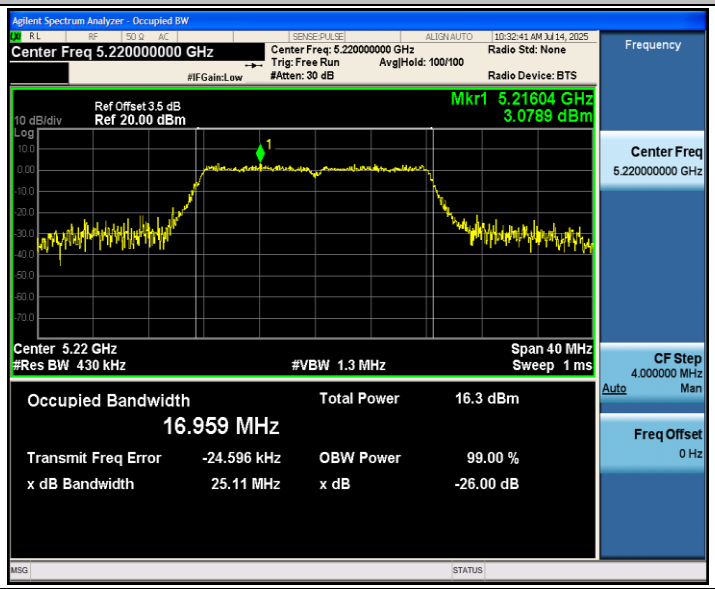
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	16.895	5171.5361	5188.4311	---	---
		5220	16.959	5211.4959	5228.4549	---	---
		5240	16.885	5231.5333	5248.4183	---	---
		5260	16.932	5251.5182	5268.4502	---	---
		5300	16.928	5291.5425	5308.4705	---	---
		5320	16.945	5311.5196	5328.4646	---	---
		5500	16.875	5491.5641	5508.4391	---	---
		5580	16.993	5571.5050	5588.4980	---	---
		5700	16.945	5691.5385	5708.4835	---	---
		5745	16.855	5736.6176	5753.4726	---	---
		5785	16.835	5776.5975	5793.4325	---	---
		5825	16.844	5816.6136	5833.4576	---	---
11N20SISO	Ant1	5180	17.950	5171.0781	5189.0281	---	---
		5220	18.059	5210.9798	5229.0388	---	---
		5240	17.966	5231.0091	5248.9751	---	---
		5260	17.975	5251.0229	5268.9979	---	---
		5300	17.952	5291.0510	5309.0030	---	---
		5320	18.010	5311.0022	5329.0122	---	---
		5500	17.945	5491.0656	5509.0106	---	---
		5580	17.924	5571.0527	5588.9767	---	---
		5700	17.874	5691.1277	5709.0017	---	---
		5745	17.884	5736.0924	5753.9764	---	---
		5785	17.944	5776.0235	5793.9675	---	---
		5825	17.908	5816.0599	5833.9679	---	---
11N40SISO	Ant1	5190	36.621	5171.7222	5208.3432	---	---
		5230	36.562	5211.7513	5248.3133	---	---
		5270	36.540	5251.6794	5288.2194	---	---
		5310	36.609	5291.6829	5328.2919	---	---
		5510	36.685	5491.6977	5528.3827	---	---
		5550	36.731	5531.6836	5568.4146	---	---
		5670	36.594	5651.8825	5688.4765	---	---
		5755	36.525	5736.8917	5773.4167	---	---
		5795	36.479	5776.8817	5813.3607	---	---

Test Graphs

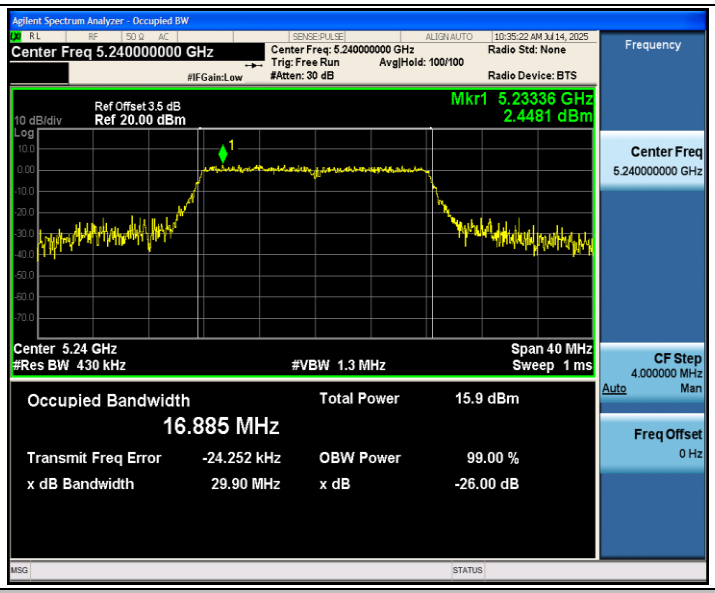
11A_Ant1_5180



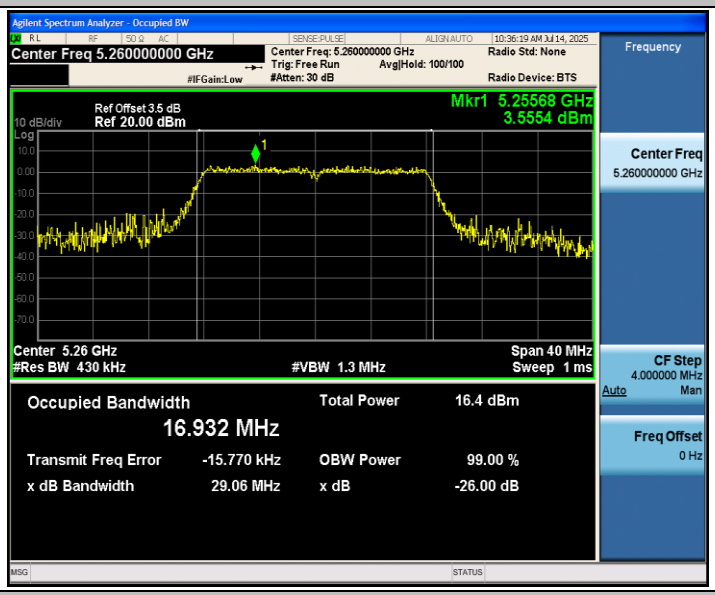
11A_Ant1_5220



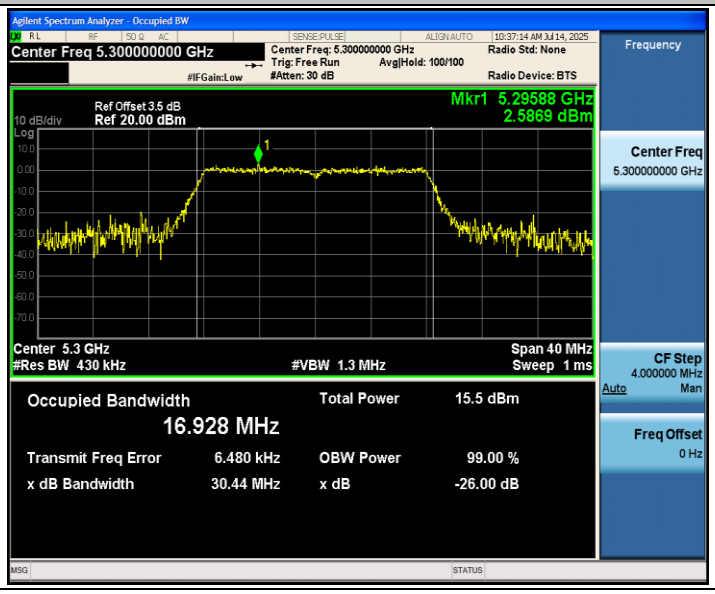
11A_Ant1_5240



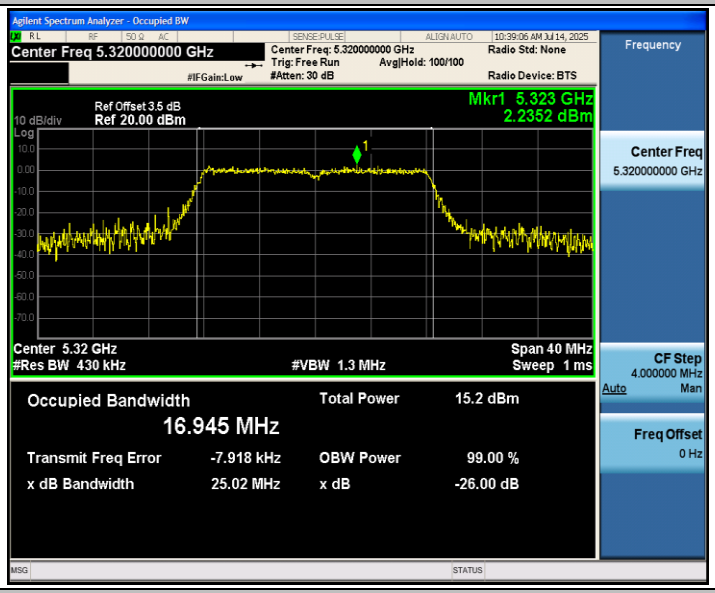
11A_Ant1_5260



11A_Ant1_5300

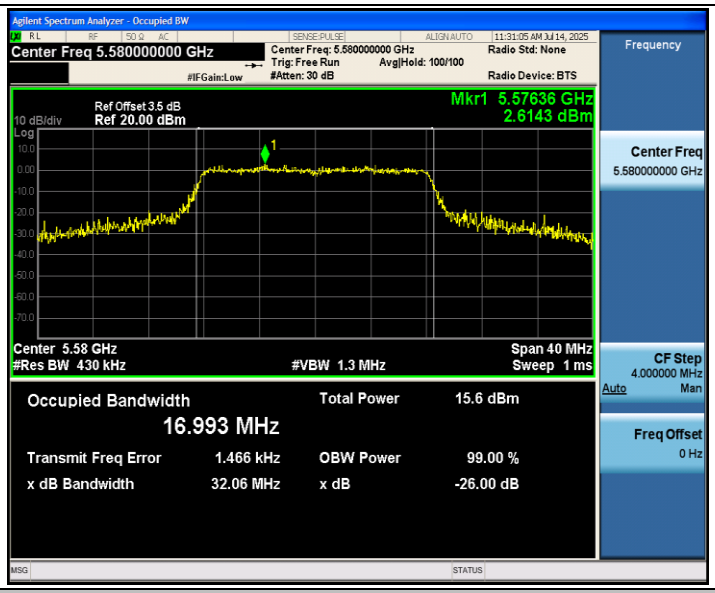


11A_Ant1_5320



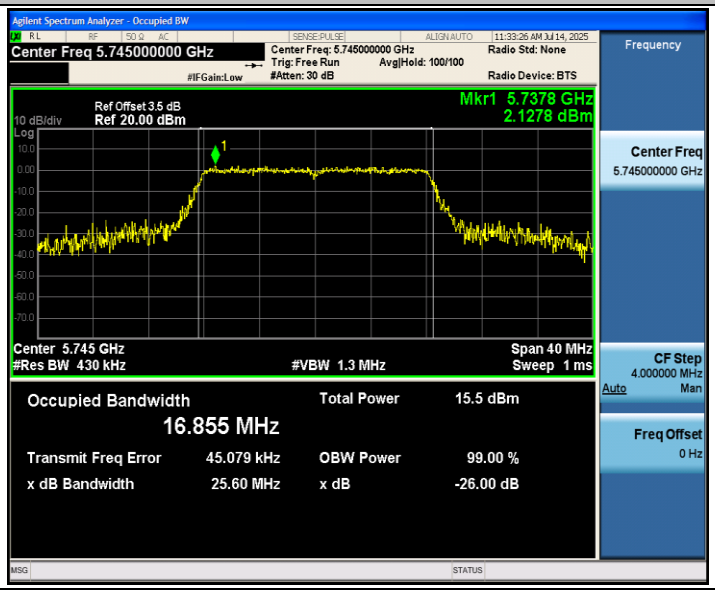
11A_Ant1_5500

11A_Ant1_5580

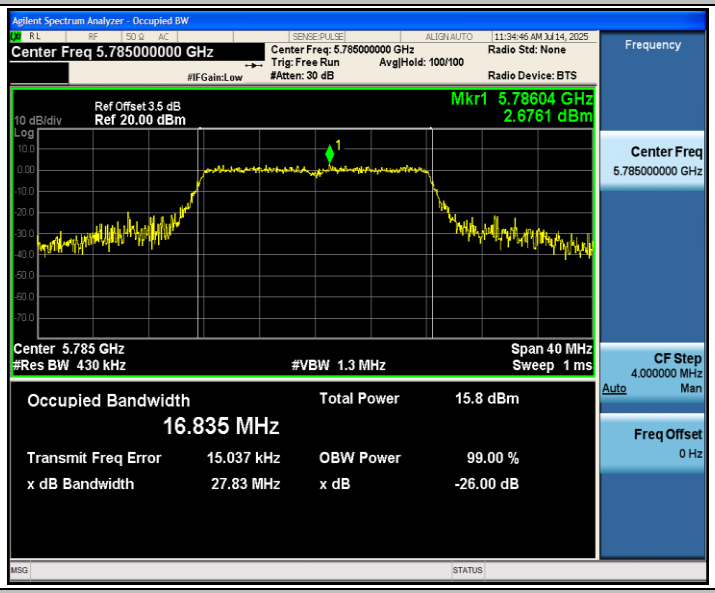


11A_Ant1_5700

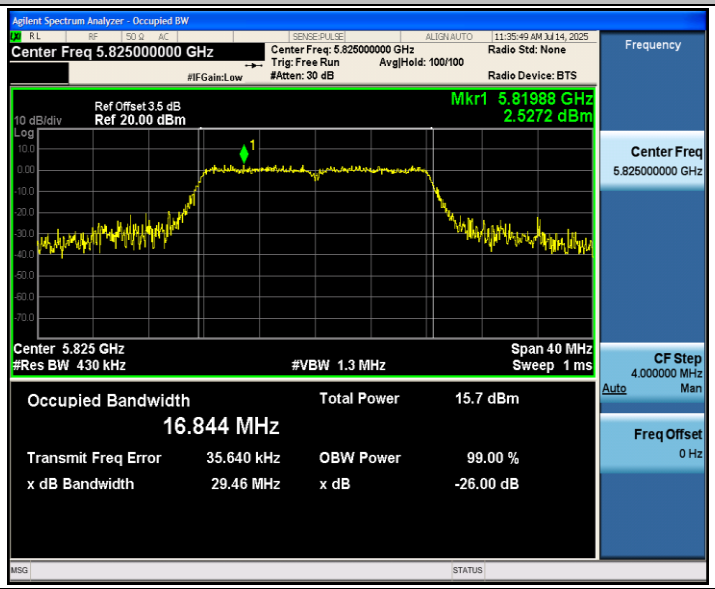
11A_Ant1_5745



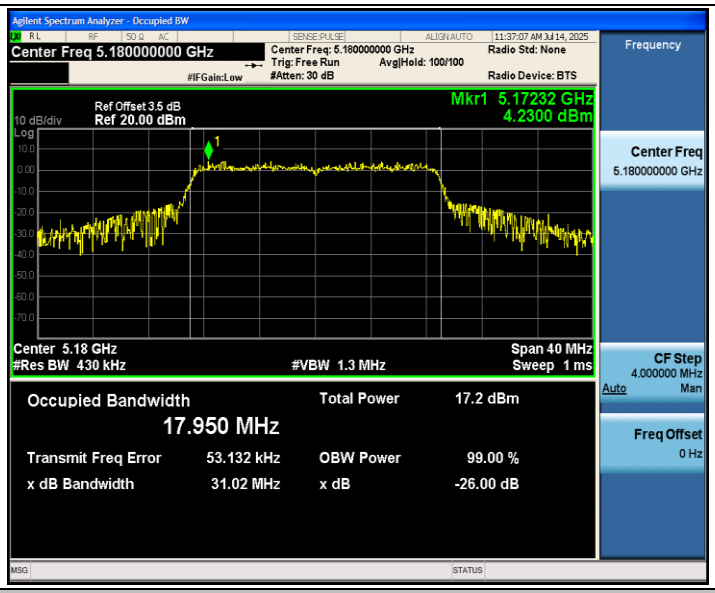
11A_Ant1_5785



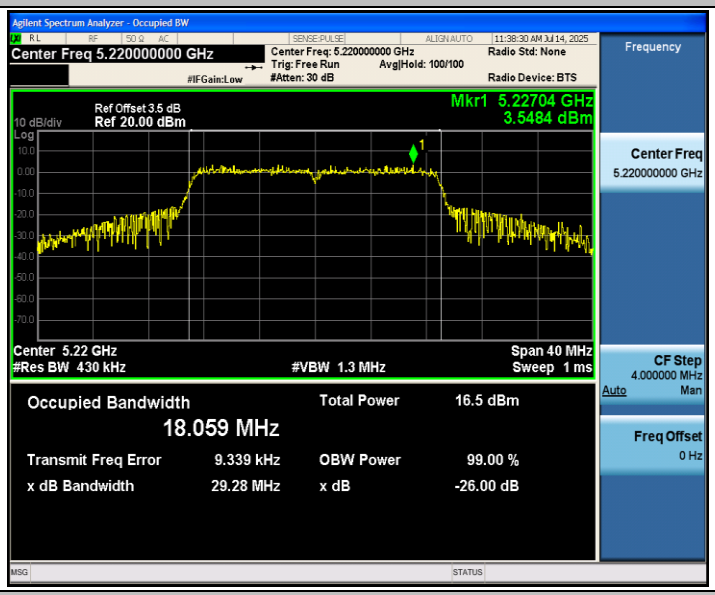
11A_Ant1_5825



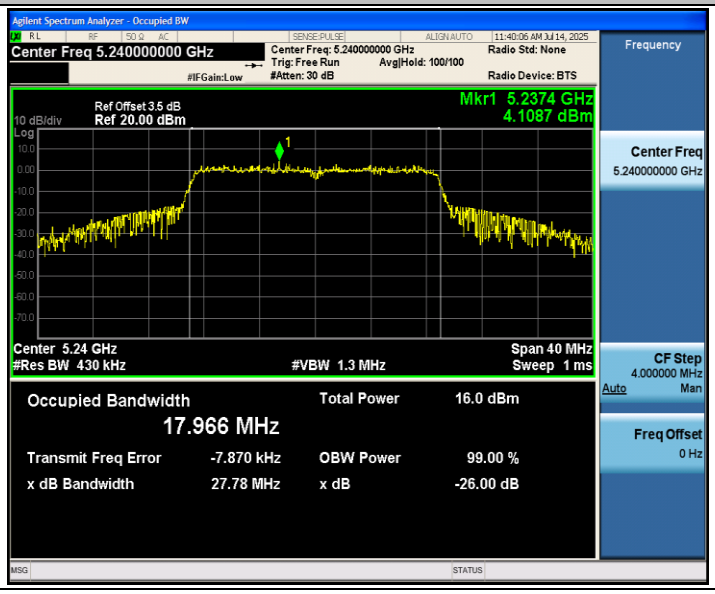
11N20SISO_Ant1_5180



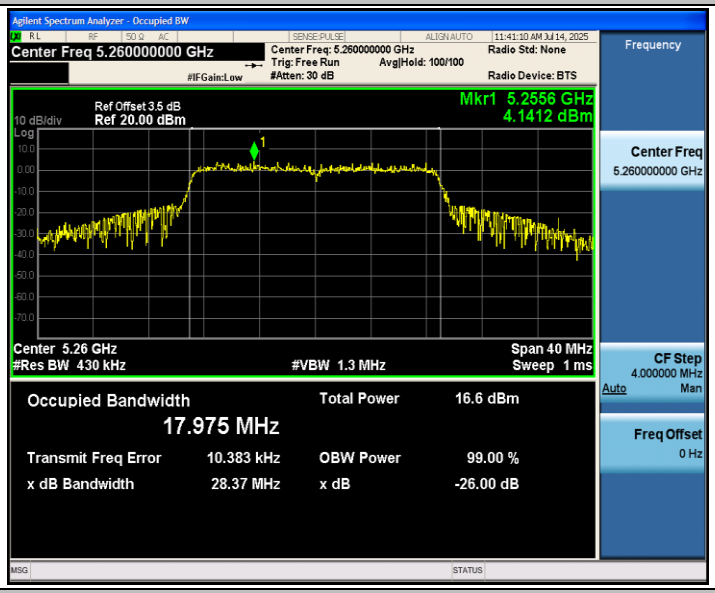
11N20SISO_Ant1_5220



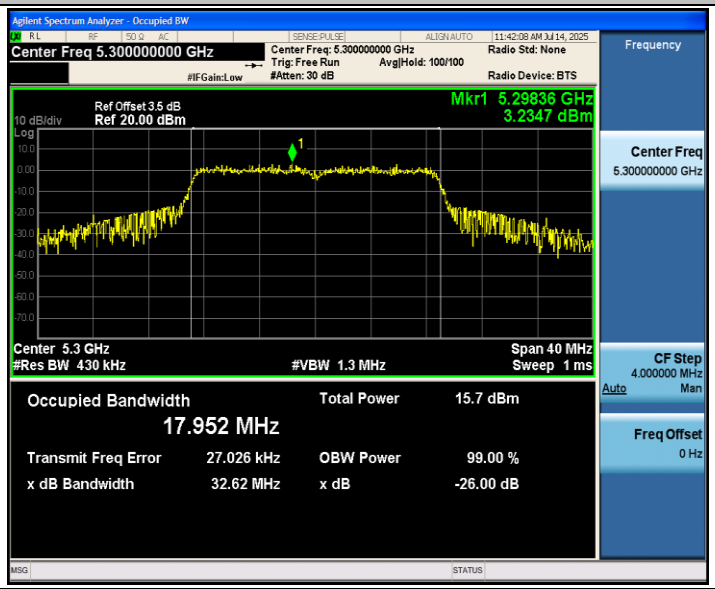
11N20SISO_Ant1_5240



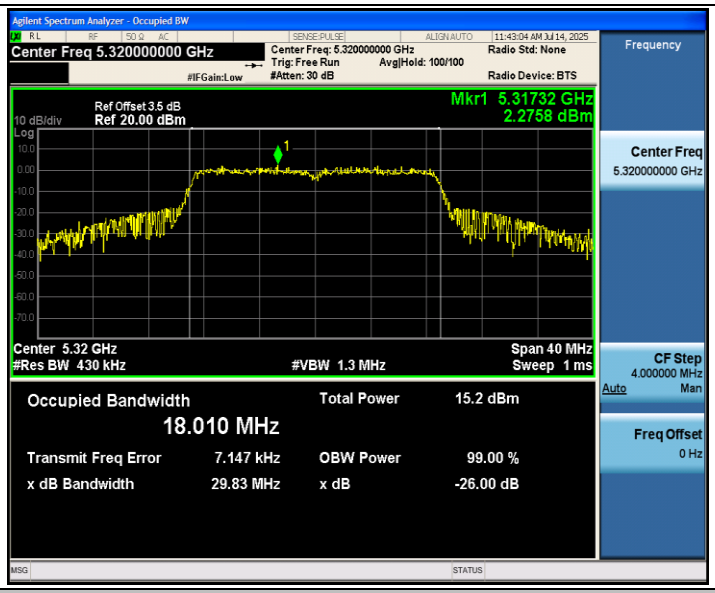
11N20SISO_Ant1_5260



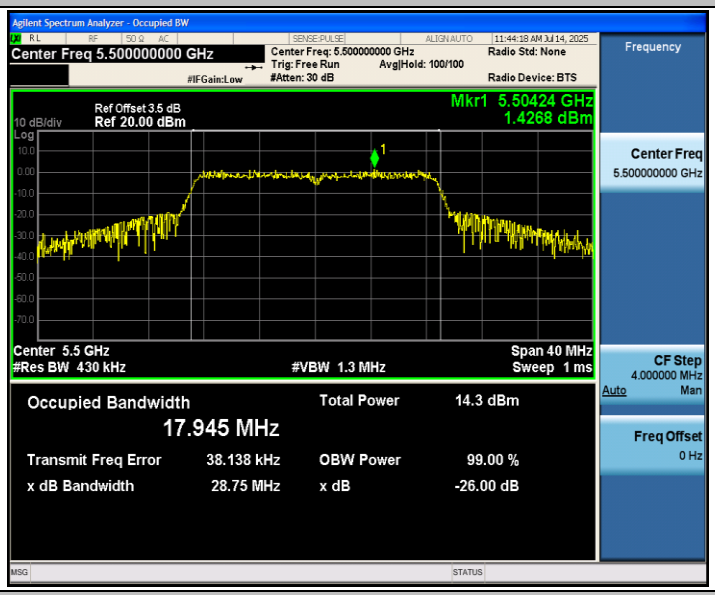
11N20SISO_Ant1_5300



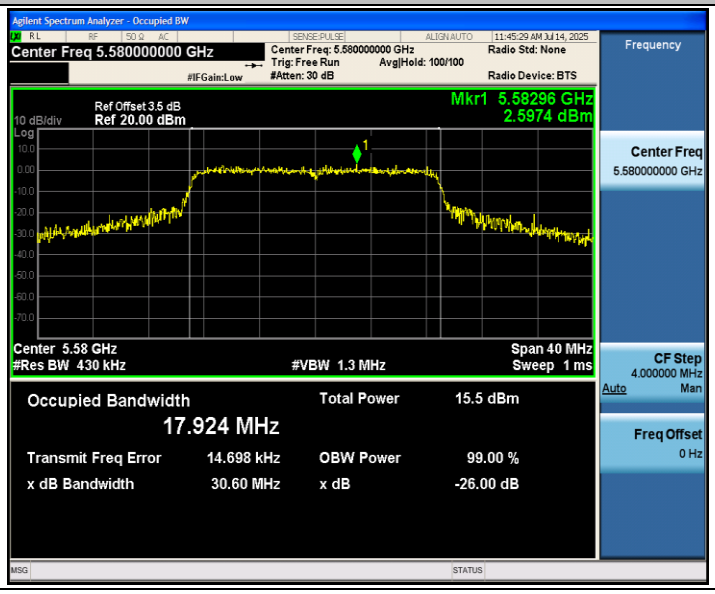
11N20SISO_Ant1_5320



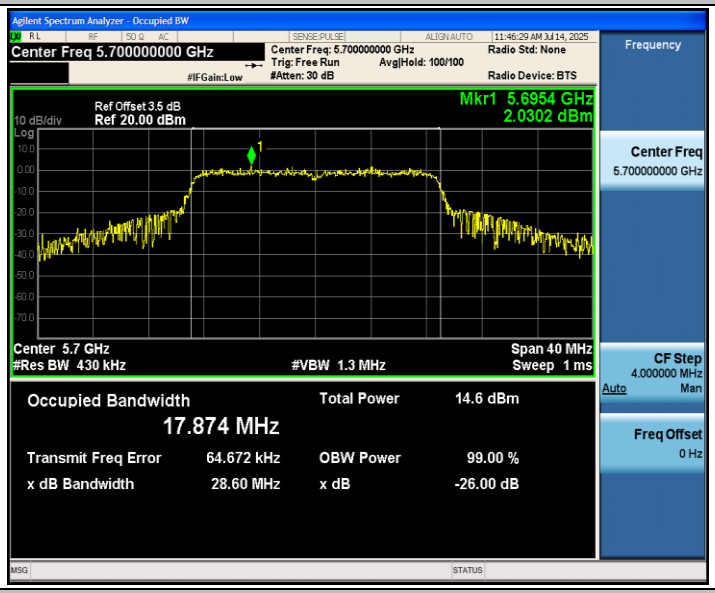
11N20SISO_Ant1_5500



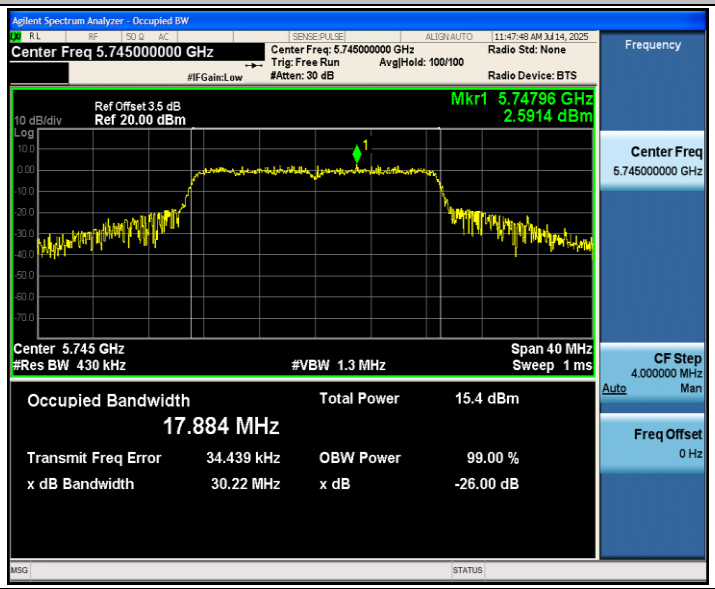
11N20SISO_Ant1_5580



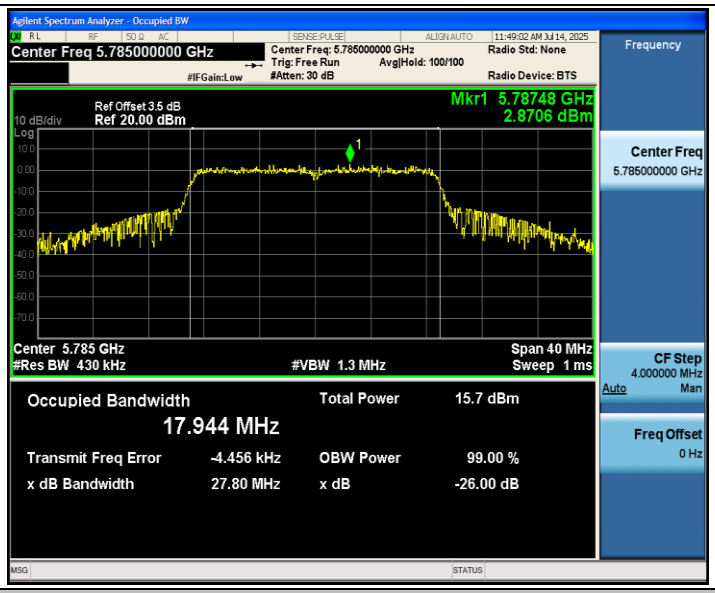
11N20SISO_Ant1_5700



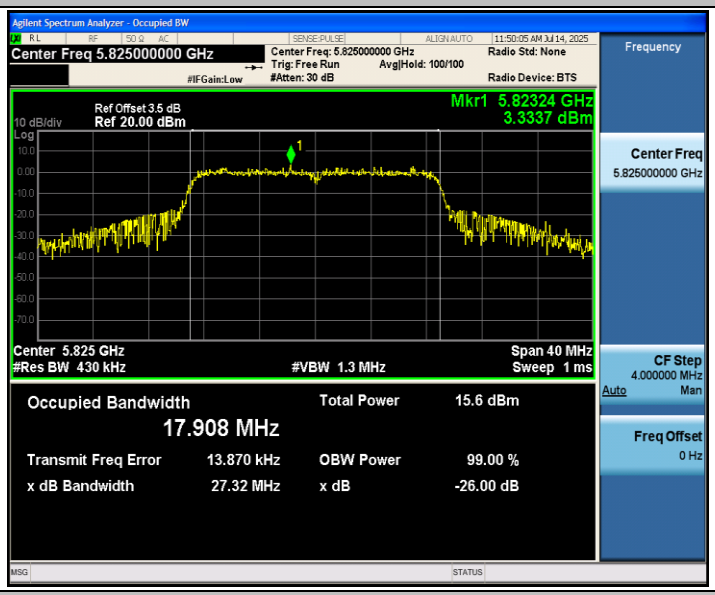
11N20SISO_Ant1_5745



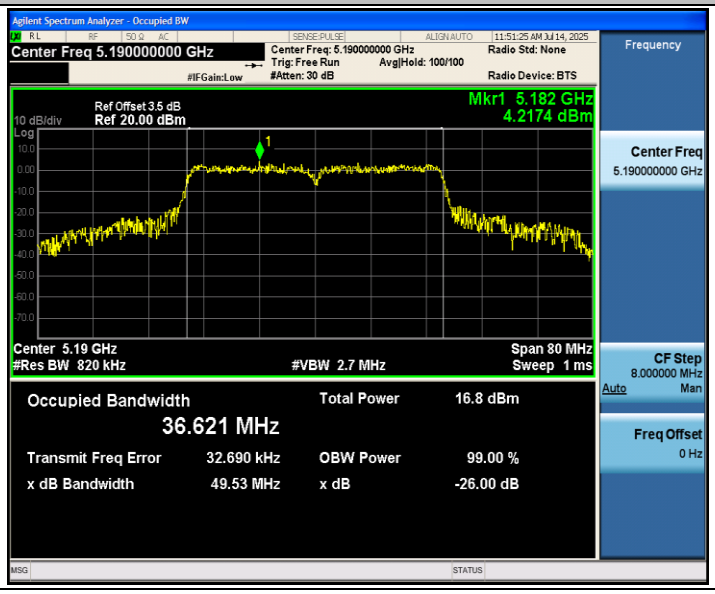
11N20SISO_Ant1_5785



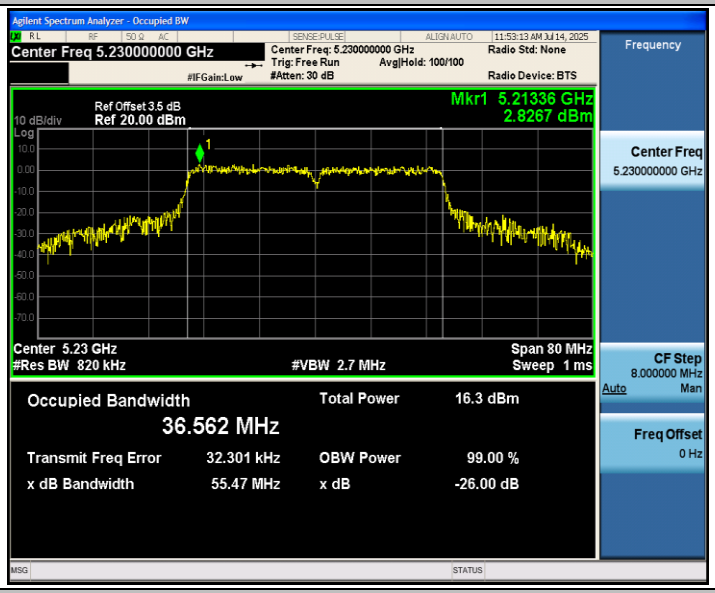
11N20SISO_Ant1_5825



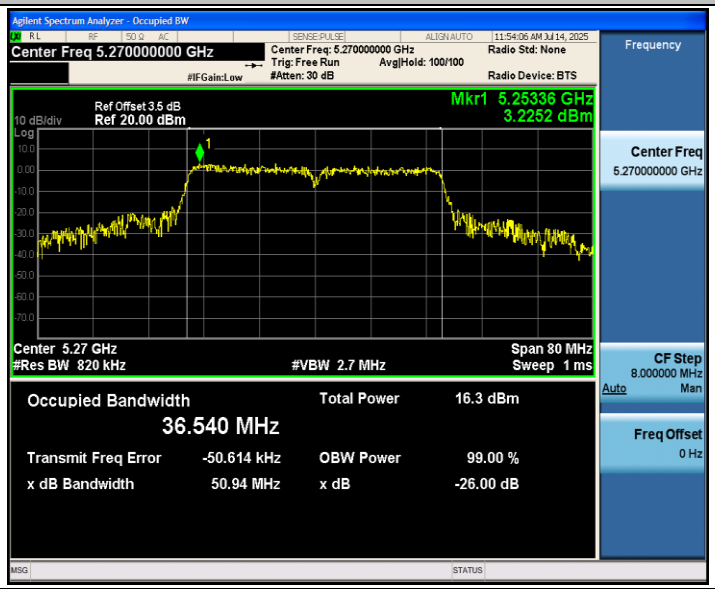
11N40SISO_Ant1_5190



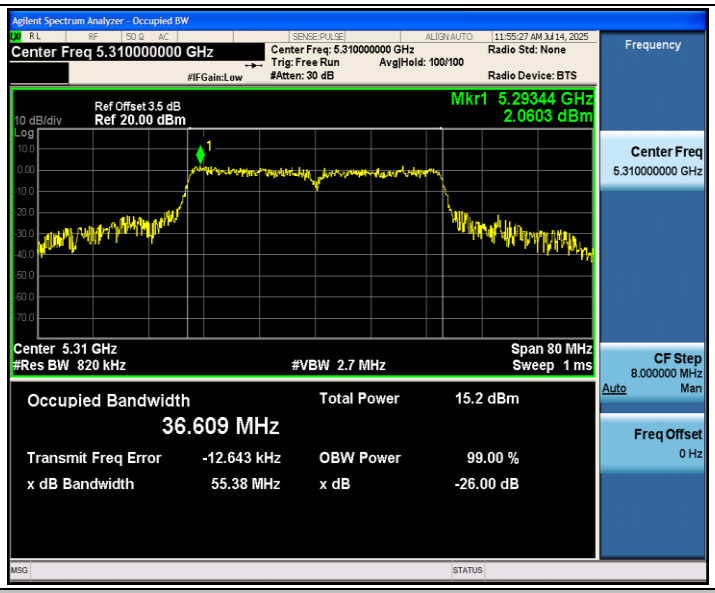
11N40SISO_Ant1_5230



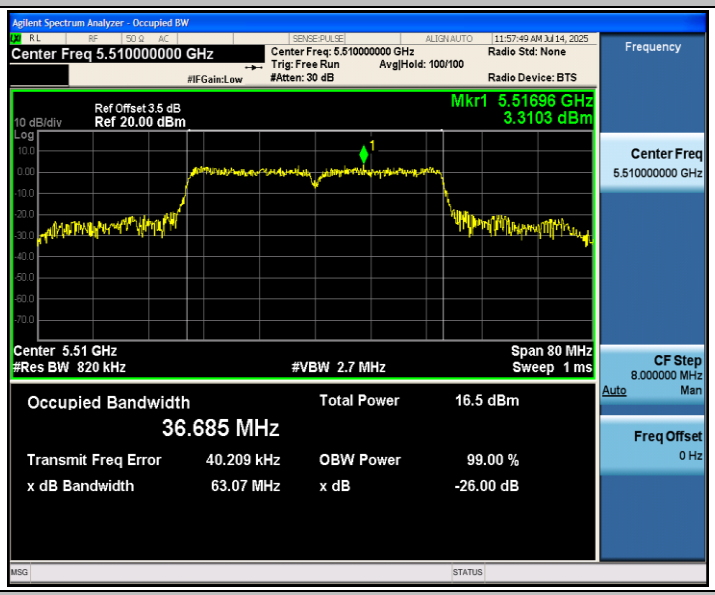
11N40SISO_Ant1_5270



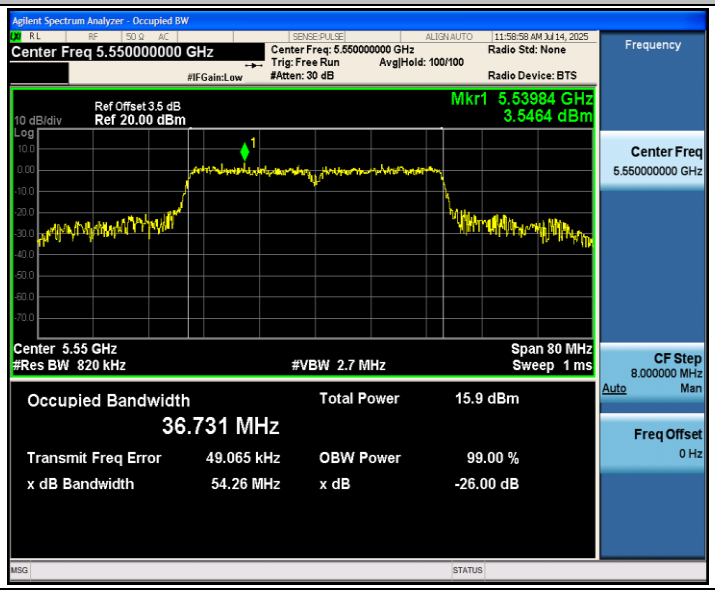
11N40SISO_Ant1_5310



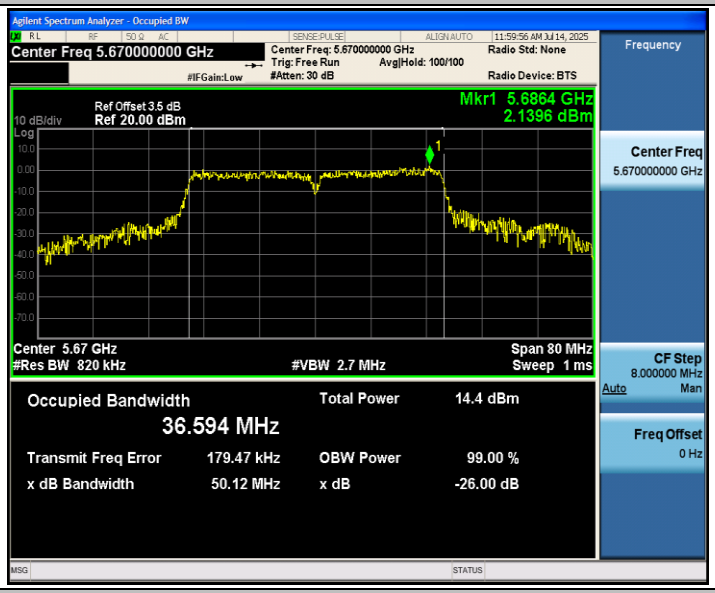
11N40SISO_Ant1_5510



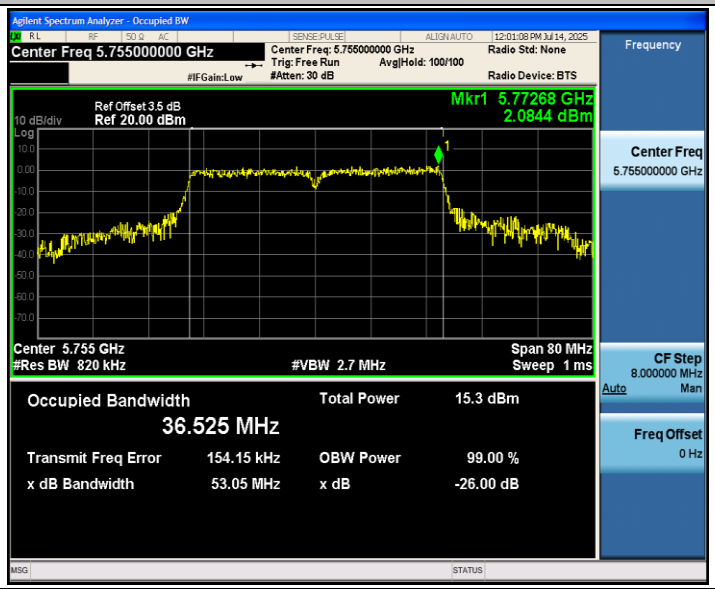
11N40SISO_Ant1_5550



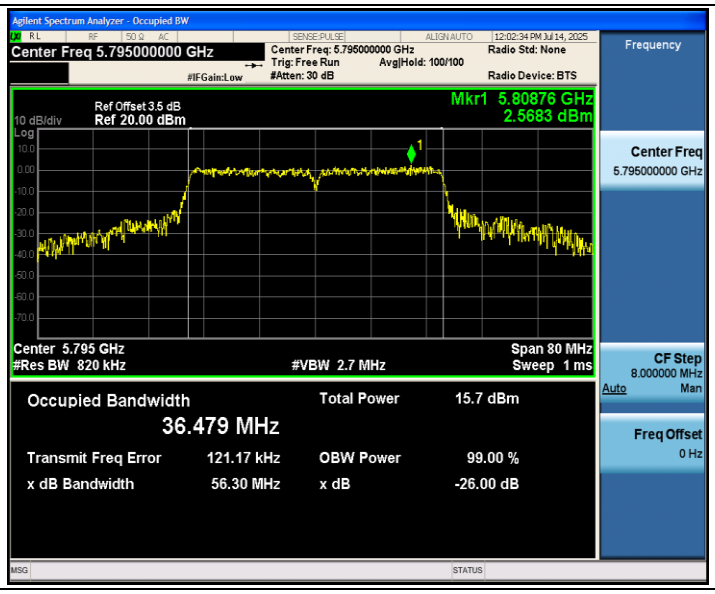
11N40SISO_Ant1_5670



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795


Agilent Spectrum Analyzer - Occupied BW
Center Freq 5.795000000 GHz
Center Freq: 5.795000000 GHz
Trig: Free Run
Avg|Hold: 100/100
#Atten: 30 dB
#IFGain:Low
Radio Std: None
Radio Device: BTS
12:02:34 PM Jul 14, 2025
Frequency
Ref Offset 3.5 dB
10 dB/div
Ref 20.00 dBm
Mkr1 5.80876 GHz
2.5683 dBm
Center 5.795 GHz
#Res BW 820 kHz
#VBW 2.7 MHz
Span 80 MHz
Sweep 1 ms
Occupied Bandwidth
36.479 MHz
Total Power 15.7 dBm
Transmit Freq Error 121.17 kHz
OBW Power 99.00 %
x dB Bandwidth 56.30 MHz
x dB -26.00 dB
Center Freq
5.795000000 GHz
CF Step
8.000000 MHz
Auto Man
Freq Offset
0 Hz
MSG
STATUS

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	17.160	5736.360	5753.520	0.5	PASS
		5785	17.160	5776.360	5793.520	0.5	PASS
		5825	17.120	5816.400	5833.520	0.5	PASS
11N40SISO	Ant1	5755	35.520	5737.400	5772.920	0.5	PASS
		5795	35.920	5777.080	5813.000	0.5	PASS