

Case No. : <u>CTA24080500102</u>	
Ambient Condition: <u>23</u> °C, <u>52</u> %RH	
According Standard: ■Part15E	
Test Date: <u>2024.8.12</u>	Test Engineer: <u>Lushan Kong</u>

Appendix D.1: Emission Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5500	20.040	5489.920	5509.960	---	---
		5580	20.320	5569.640	5589.960	---	---
		5700	20.080	5689.760	5709.840	---	---
11N20SISO	Ant1	5500	20.880	5489.520	5510.400	---	---
		5580	21.160	5569.320	5590.480	---	---
		5700	21.120	5689.240	5710.360	---	---
11N40SISO	Ant1	5510	41.520	5489.280	5530.800	---	---
		5590	41.680	5568.960	5610.640	---	---
		5670	41.680	5648.880	5690.560	---	---
11AC20SISO	Ant1	5500	20.960	5489.480	5510.440	---	---
		5580	21.080	5569.320	5590.400	---	---
		5700	21.080	5689.240	5710.320	---	---
11AC40SISO	Ant1	5510	41.440	5489.360	5530.800	---	---
		5590	41.600	5569.040	5610.640	---	---
		5670	41.520	5648.880	5690.400	---	---
11AC80SISO	Ant1	5530	81.760	5489.840	5571.600	---	---
		5610	81.440	5569.040	5650.480	---	---

Test Graphs

11A_Ant1_5500



11A_Ant1_5580



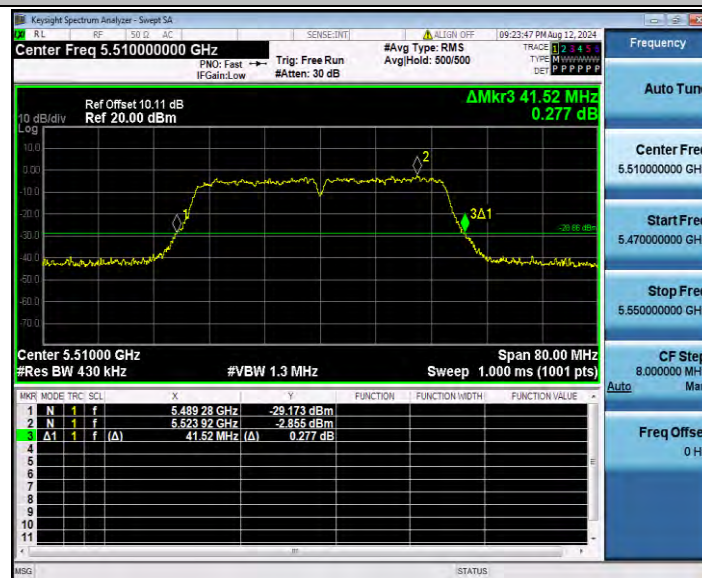
11A_Ant1_5700



11N20SISO_Ant1_5700



11N40SISO_Ant1_5510



11N40SISO_Ant1_5590



11AC20SISO_Ant1_5580



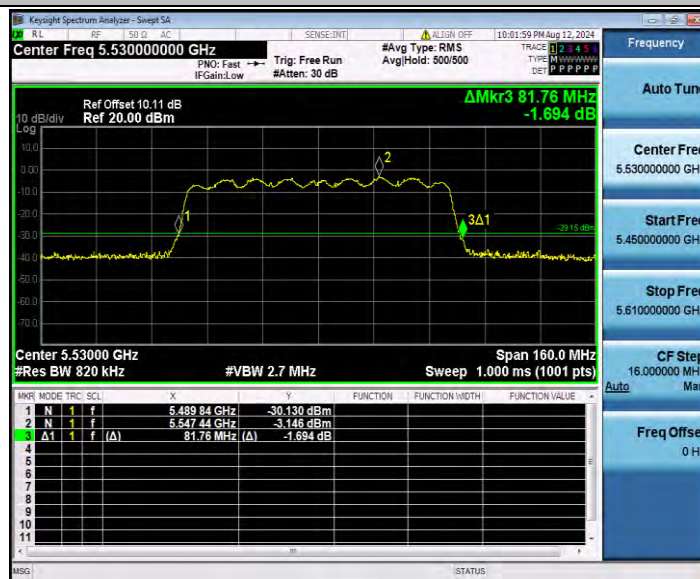
11AC20SISO_Ant1_5700



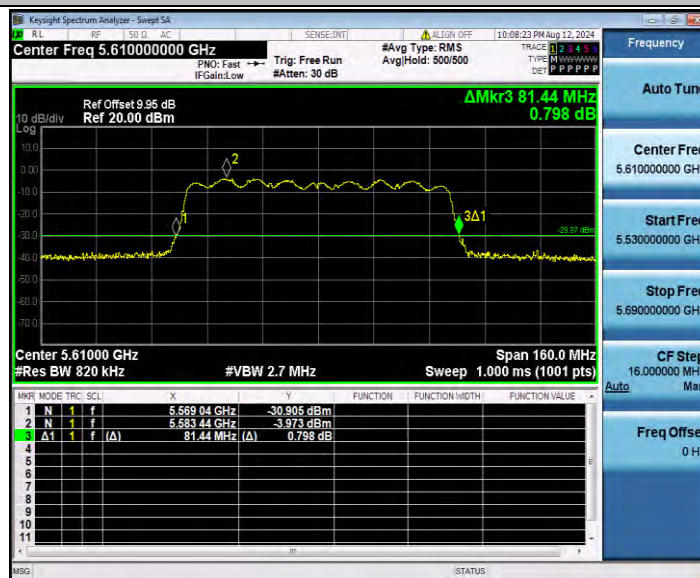
11AC40SISO_Ant1_5510



11AC80SISO_Ant1_5530



11AC80SISO_Ant1_5610

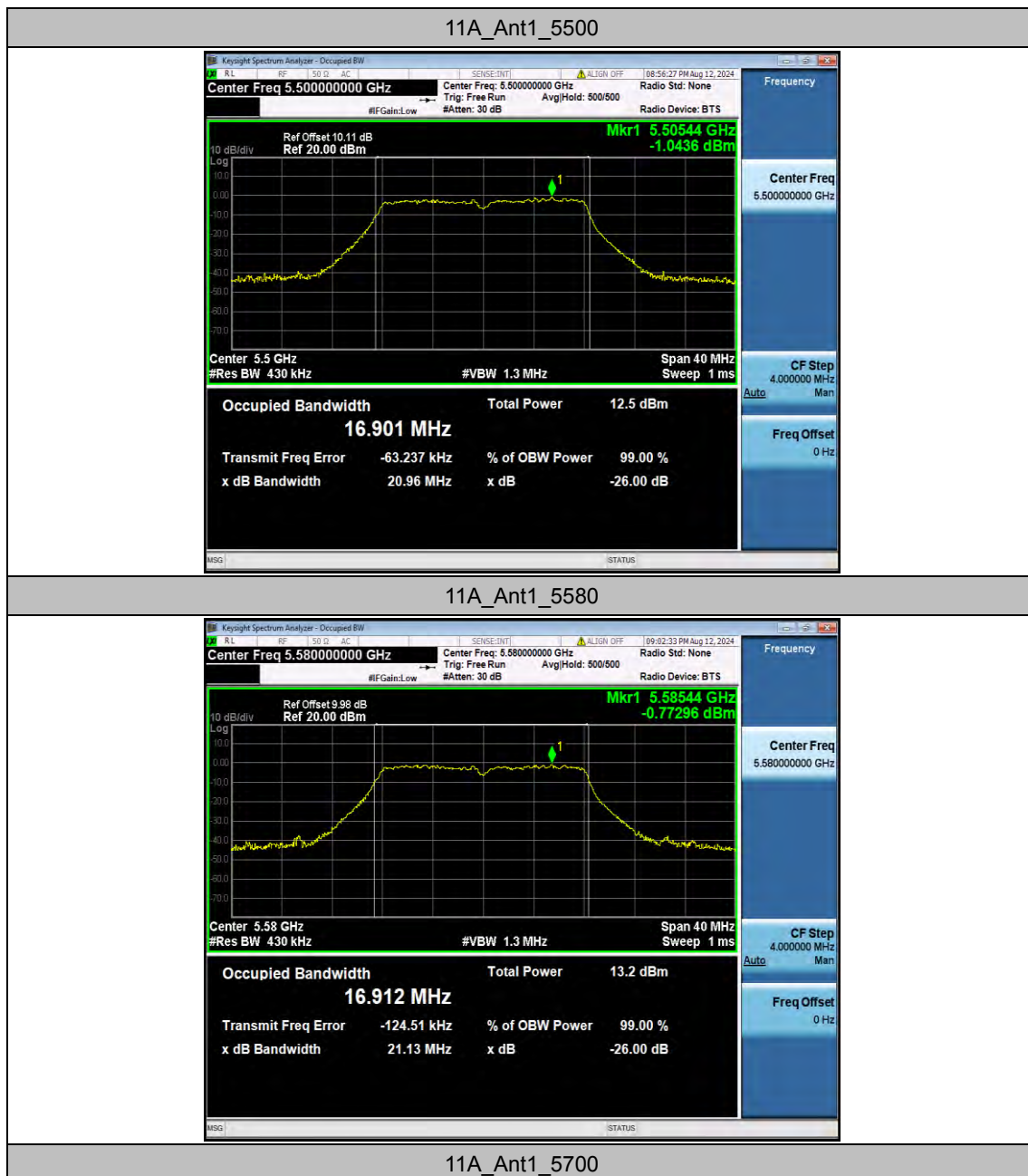


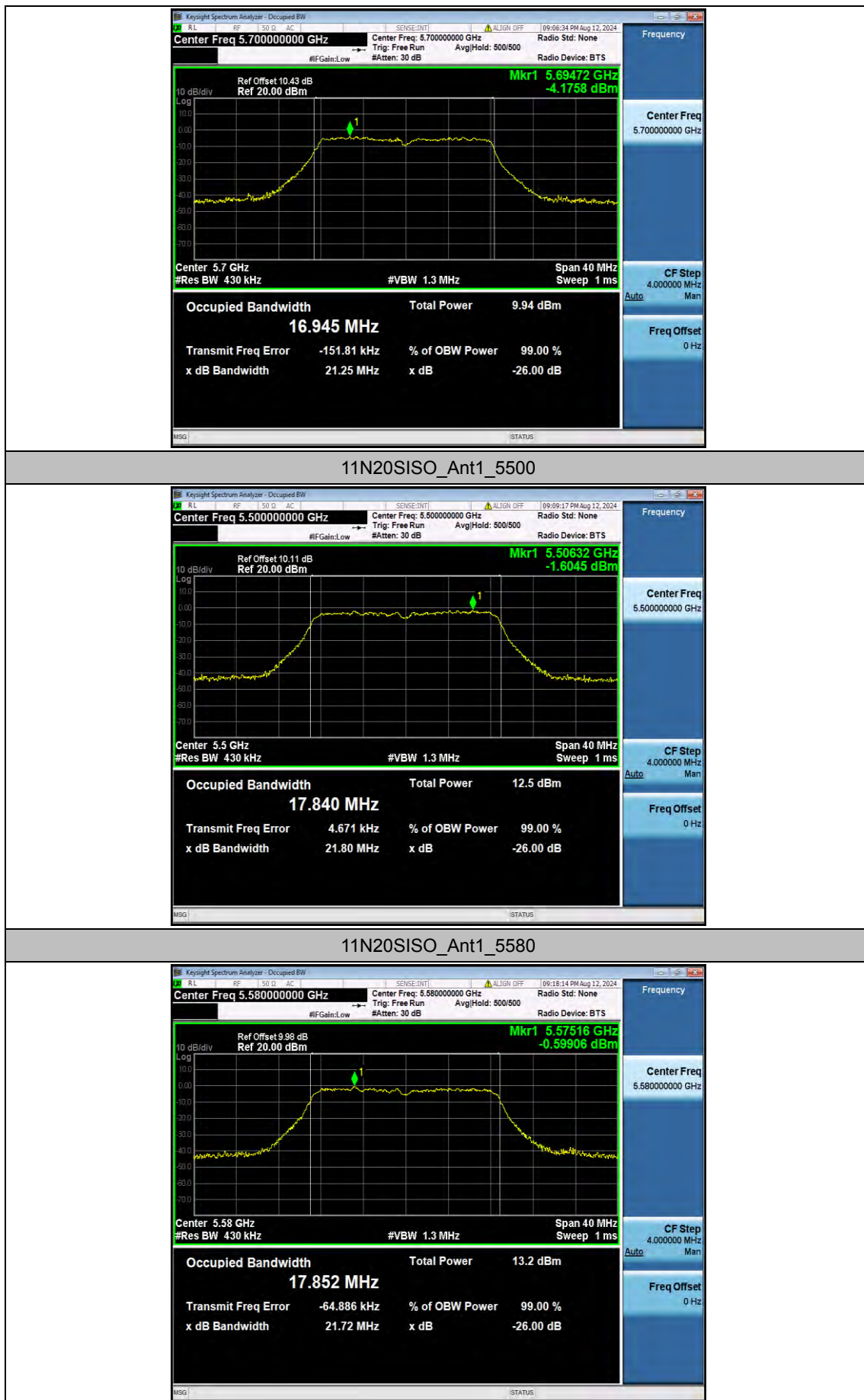
Appendix D.2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5500	16.901	5491.4863	5508.3873	---	---
		5580	16.912	5571.4195	5588.3315	---	---
		5700	16.945	5691.3757	5708.3207	---	---
11N20SISO	Ant1	5500	17.840	5491.0847	5508.9247	---	---
		5580	17.852	5571.0091	5588.8611	---	---
		5700	17.898	5690.9589	5708.8569	---	---
11N40SISO	Ant1	5510	36.376	5491.9461	5528.3221	---	---
		5590	36.403	5571.7444	5608.1474	---	---
		5670	36.412	5651.6995	5688.1115	---	---
11AC20SISO	Ant1	5500	17.884	5491.0613	5508.9453	---	---
		5580	17.902	5570.9803	5588.8823	---	---
		5700	17.913	5690.9581	5708.8711	---	---
11AC40SISO	Ant1	5510	36.366	5491.9508	5528.3168	---	---
		5590	36.398	5571.7496	5608.1476	---	---
		5670	36.402	5651.6554	5688.0574	---	---
11AC80SISO	Ant1	5530	74.967	5492.6575	5567.6245	---	---
		5610	75.260	5572.2124	5647.4724	---	---

Test Graphs





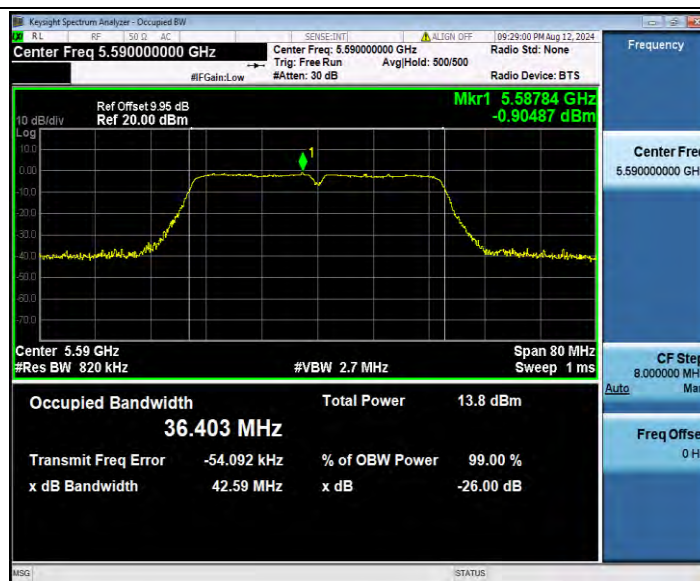
11N20SISO_Ant1_5700



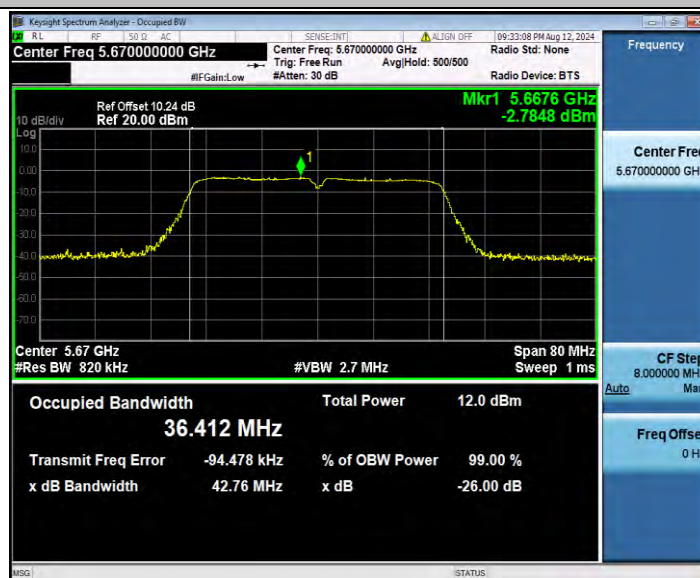
11N40SISO_Ant1_5510



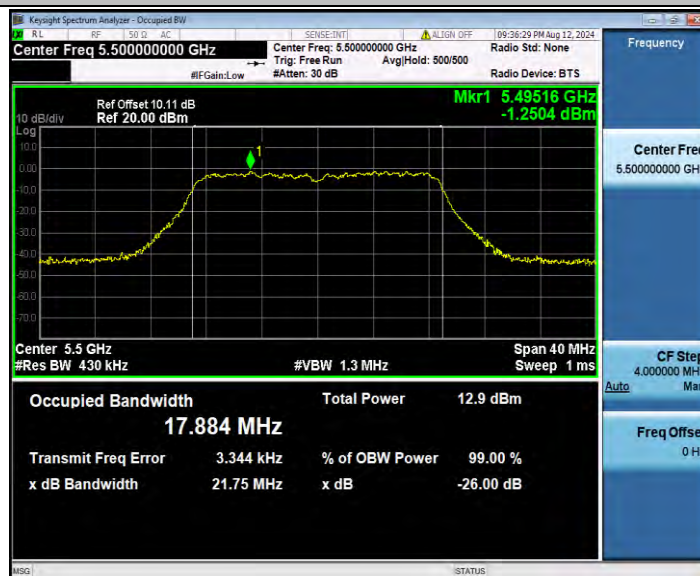
11N40SISO_Ant1_5590



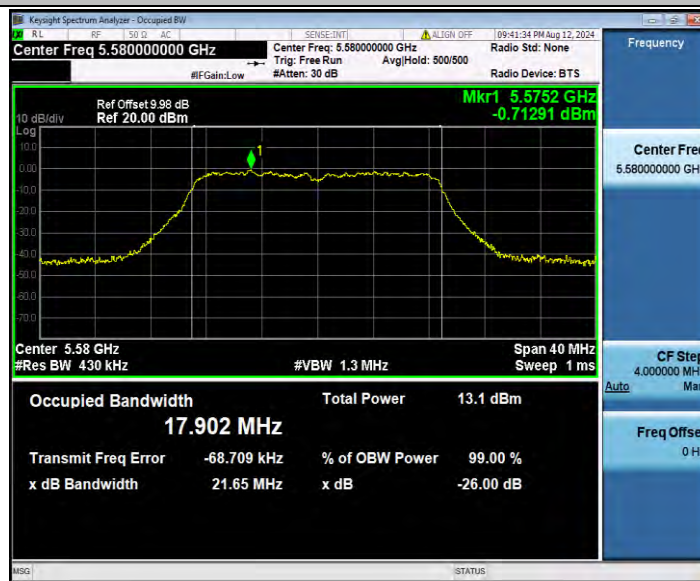
11N40SISO_Ant1_5670



11AC20SISO_Ant1_5500



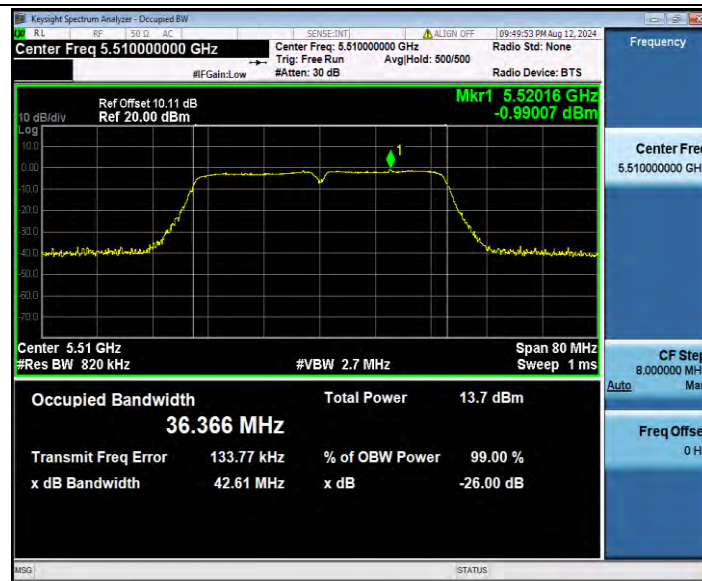
11AC20SISO_Ant1_5580



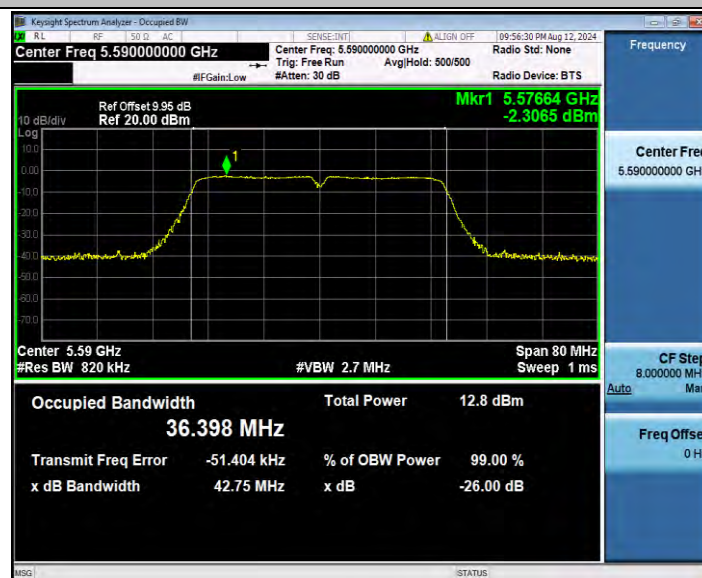
11AC20SISO_Ant1_5700



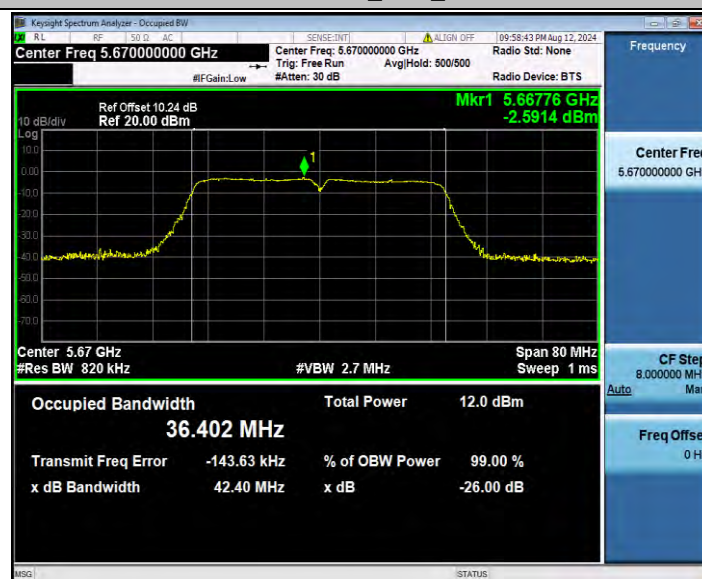
11AC40SISO_Ant1_5510



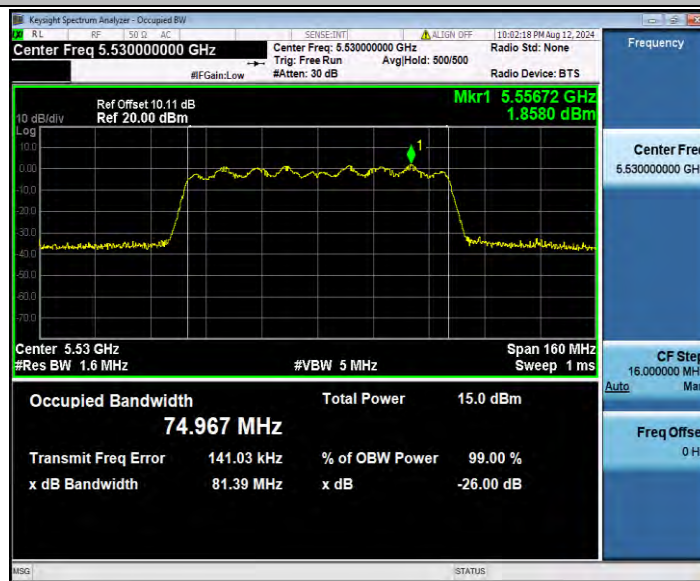
11AC40SISO_Ant1_5590



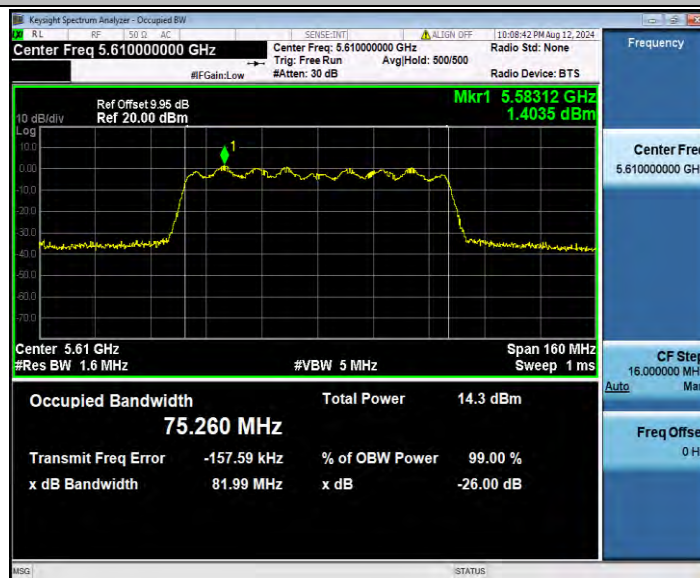
11AC40SISO_Ant1_5670



11AC80SISO_Ant1_5530



11AC80SISO_Ant1_5610

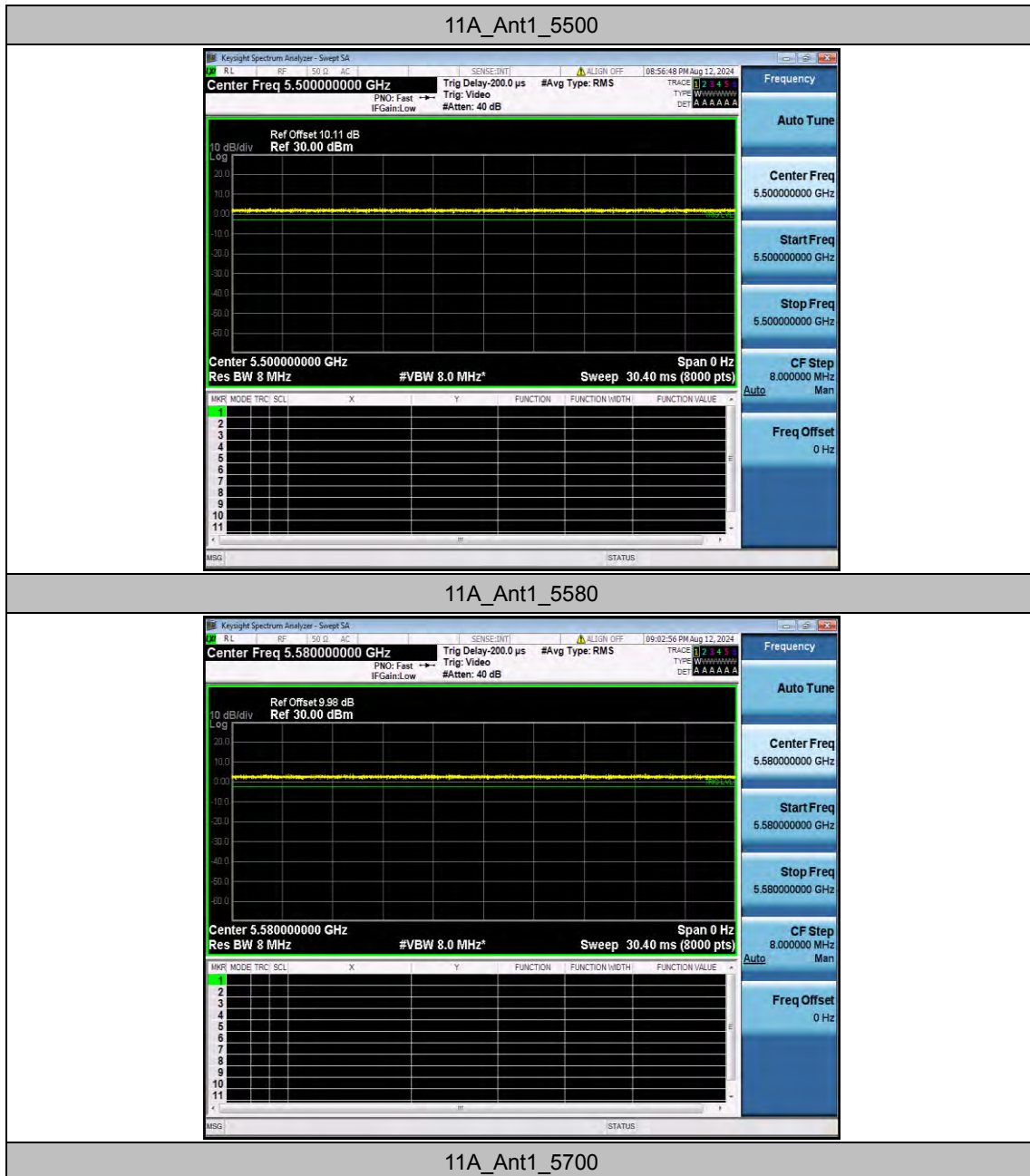


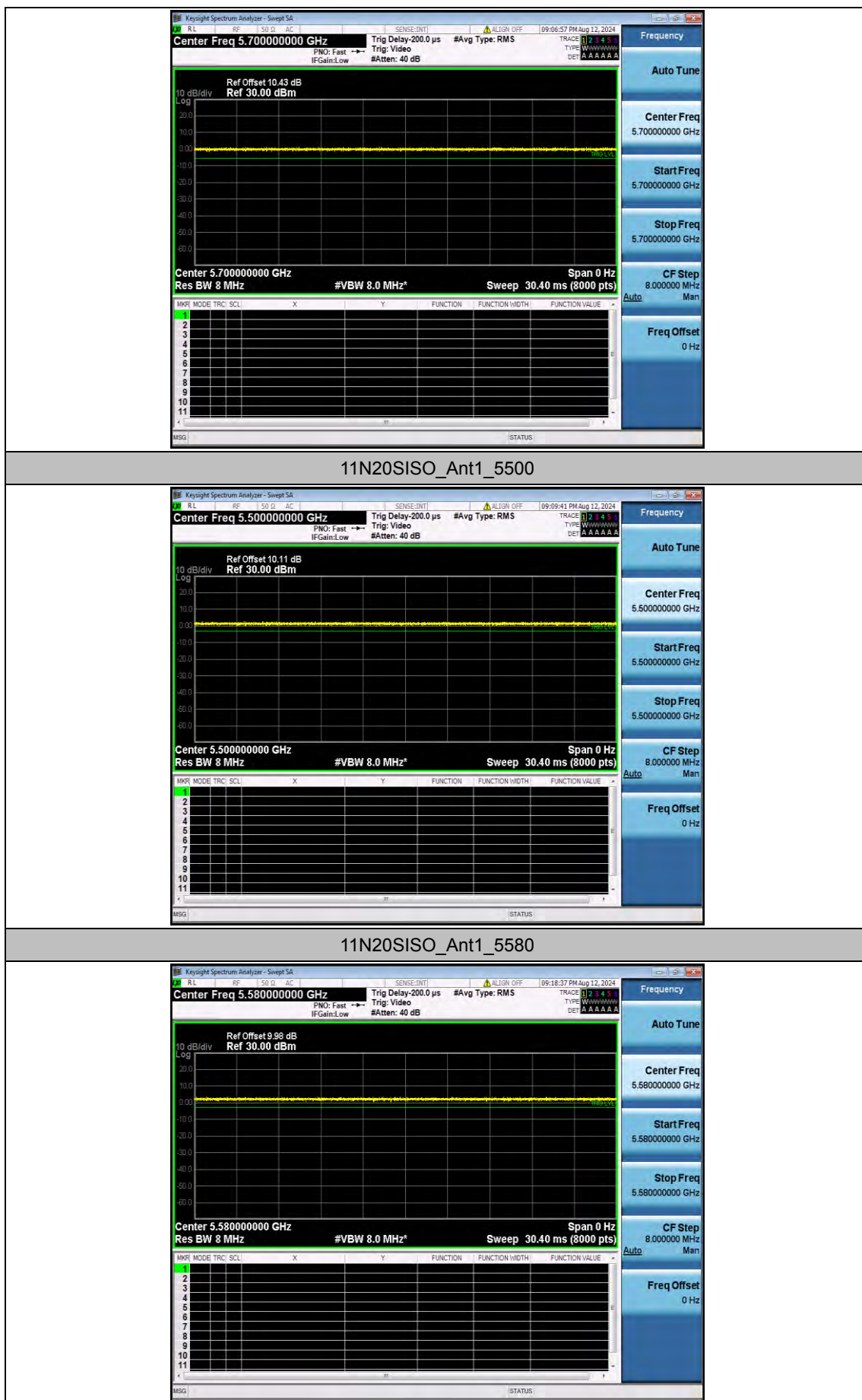
Appendix D.3: Duty Cycle

Test Result

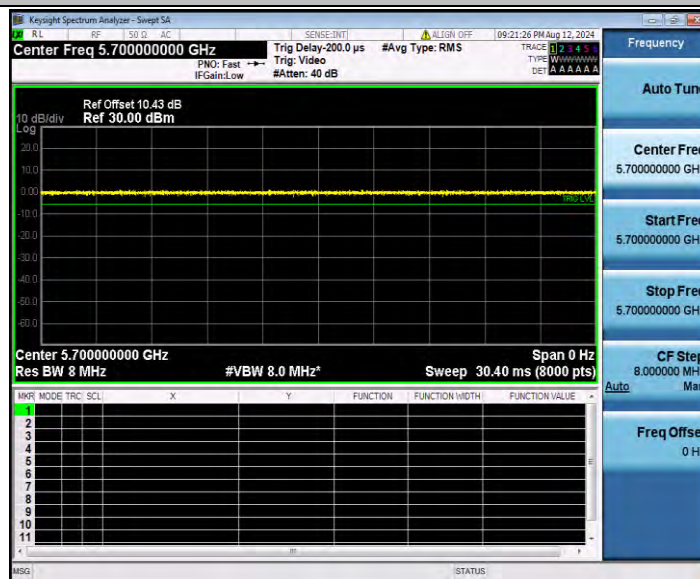
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5500	30.00	30.00	100.00	0.00	0.03
		5580	30.00	30.00	100.00	0.00	0.03
		5700	30.00	30.00	100.00	0.00	0.03
11N20SISO	Ant1	5500	30.00	30.00	100.00	0.00	0.03
		5580	30.00	30.00	100.00	0.00	0.03
		5700	30.00	30.00	100.00	0.00	0.03
11N40SISO	Ant1	5510	30.00	30.00	100.00	0.00	0.03
		5590	30.00	30.00	100.00	0.00	0.03
		5670	30.00	30.00	100.00	0.00	0.03
11AC20SISO	Ant1	5500	30.00	30.00	100.00	0.00	0.03
		5580	30.00	30.00	100.00	0.00	0.03
		5700	30.00	30.00	100.00	0.00	0.03
11AC40SISO	Ant1	5510	30.00	30.00	100.00	0.00	0.03
		5590	30.00	30.00	100.00	0.00	0.03
		5670	30.00	30.00	100.00	0.00	0.03
11AC80SISO	Ant1	5530	30.00	30.00	100.00	0.00	0.03
		5610	30.00	30.00	100.00	0.00	0.03

Test Graphs

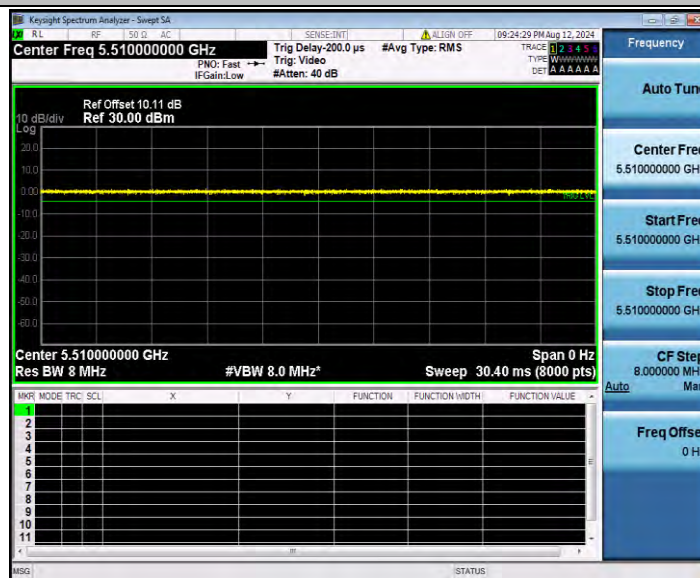




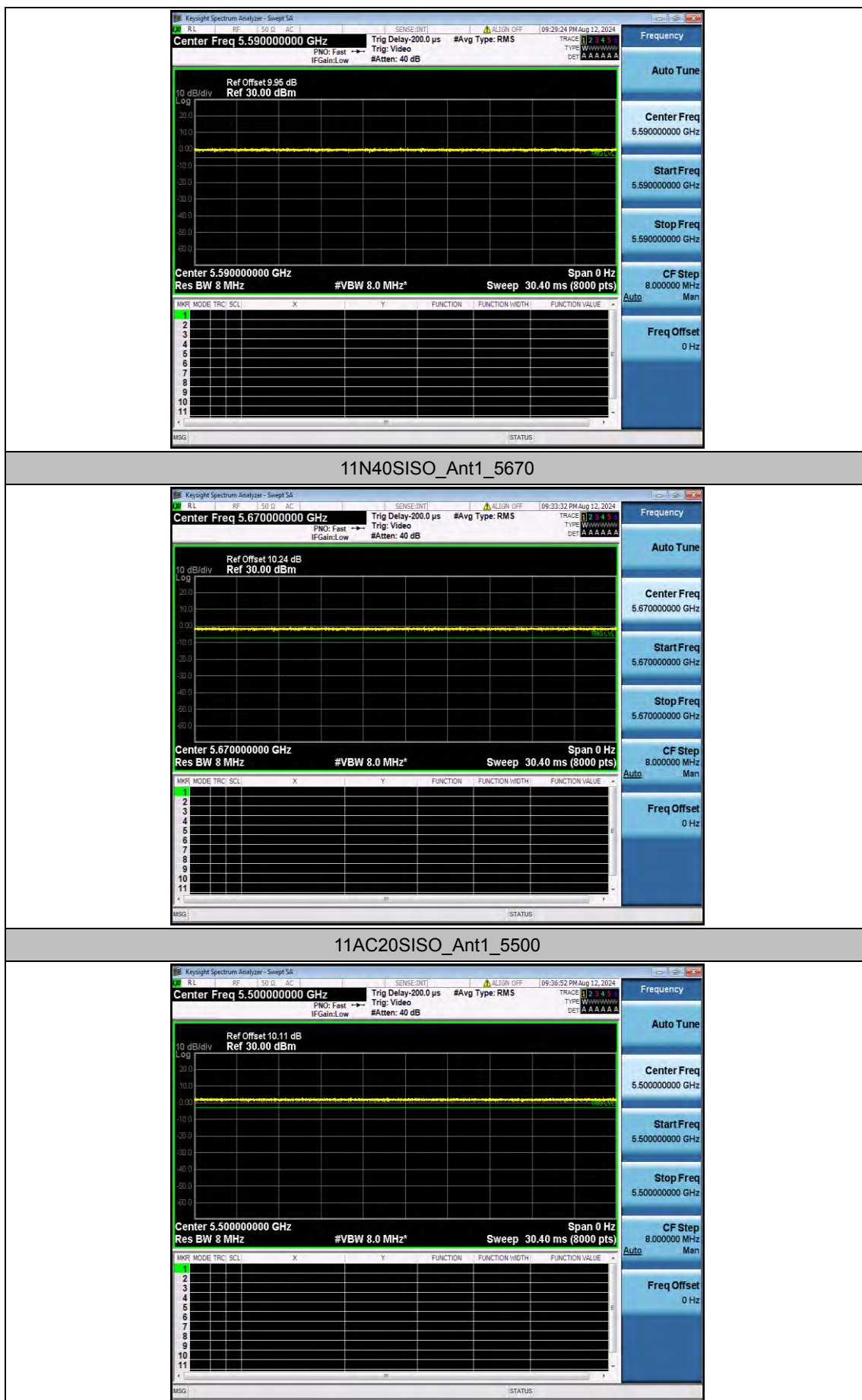
11N20SISO_Ant1_5700



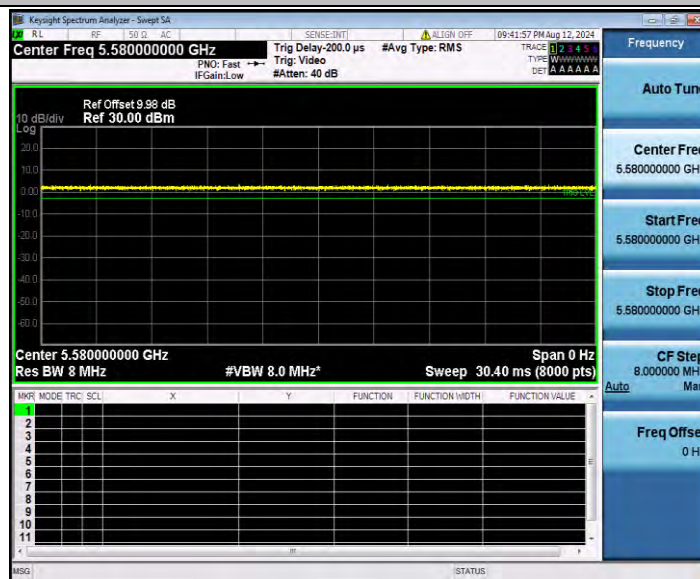
11N40SISO_Ant1_5510



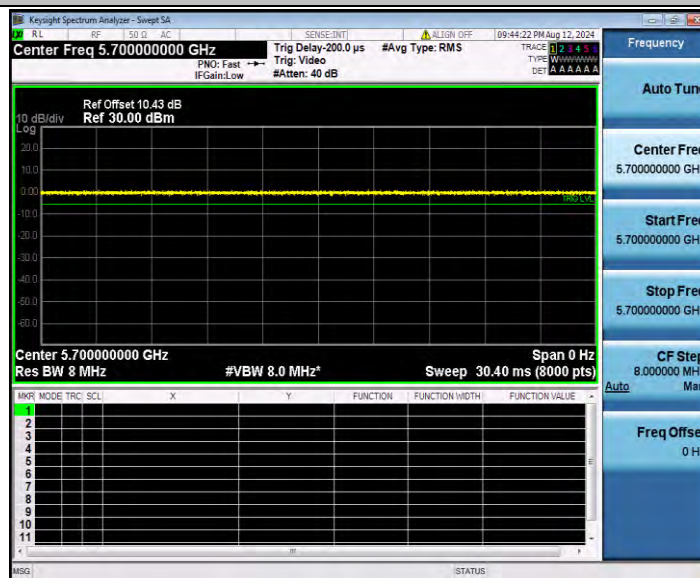
11N40SISO_Ant1_5590



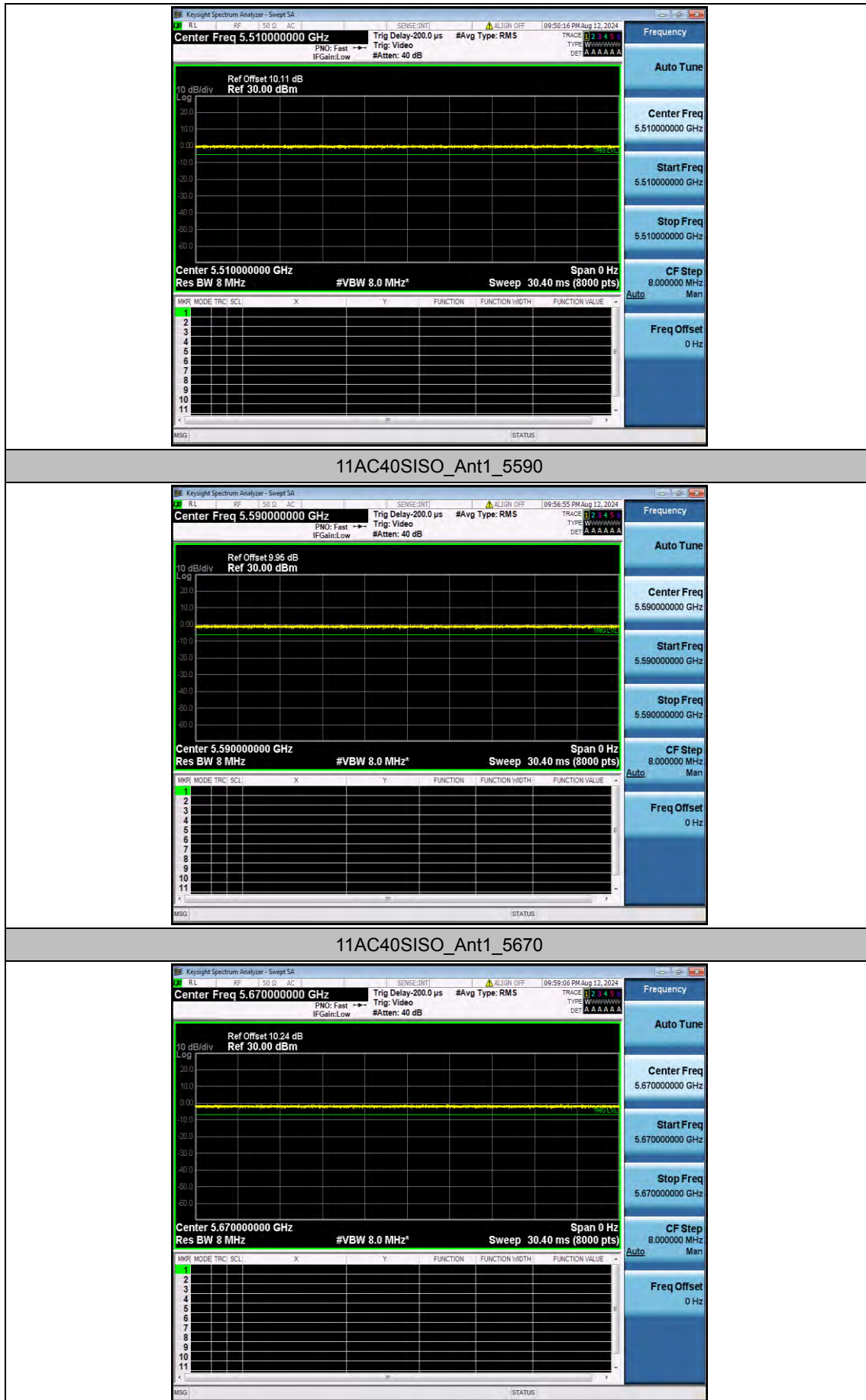
11AC20SISO_Ant1_5580

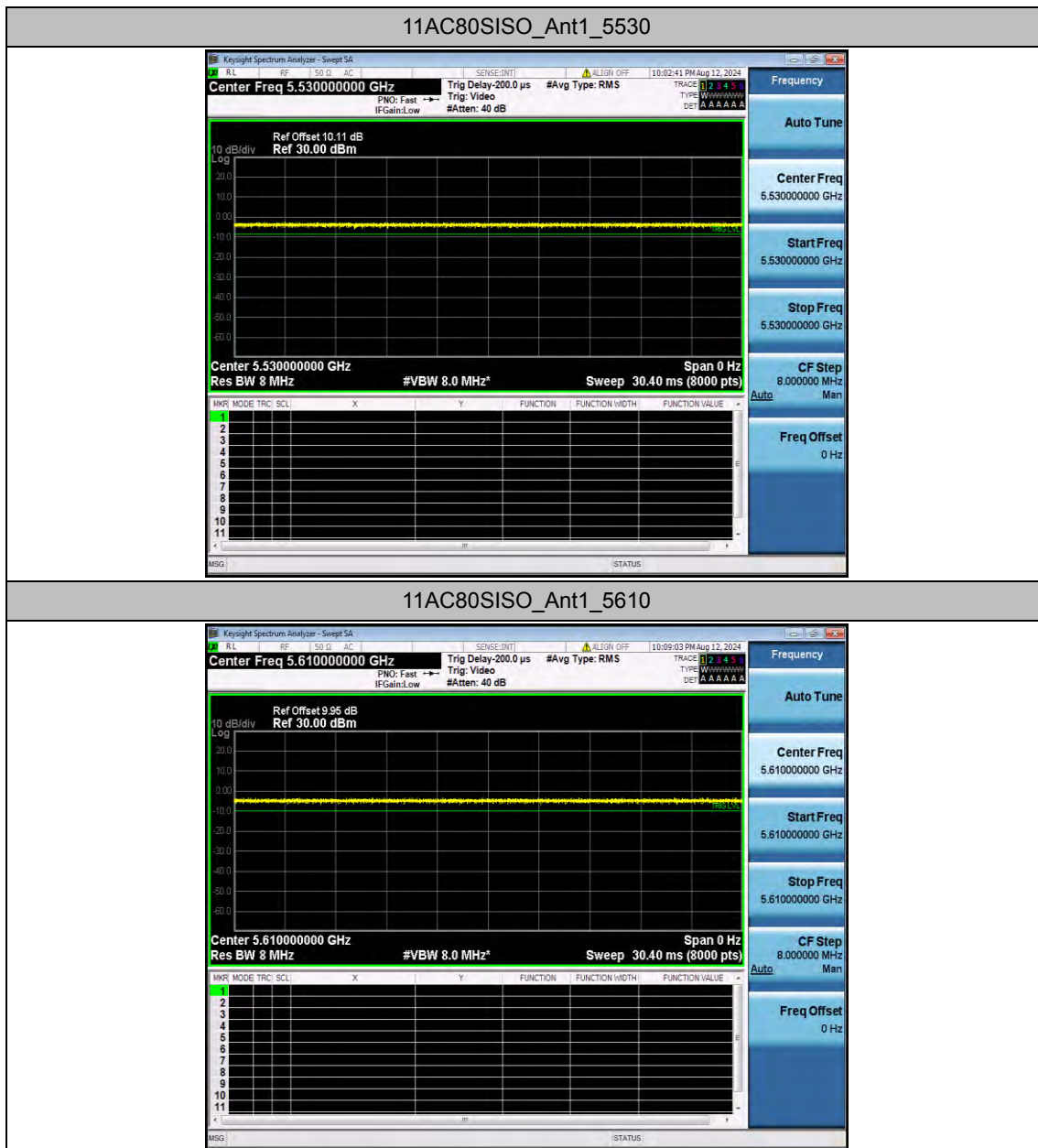


11AC20SISO_Ant1_5700



11AC40SISO_Ant1_5510





Appendix D.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Freq(MHz)	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5500	5.93	100.00	0.00	5.93	≤23.98	PASS
		5580	6.60	100.00	0.00	6.60	≤23.98	PASS
		5700	3.45	100.00	0.00	3.45	≤23.98	PASS
11N20SISO	Ant1	5500	5.72	100.00	0.00	5.72	≤23.98	PASS
		5580	6.50	100.00	0.00	6.50	≤23.98	PASS
		5700	3.59	100.00	0.00	3.59	≤23.98	PASS
11N40SISO	Ant1	5510	6.97	100.00	0.00	6.97	≤23.98	PASS
		5590	6.41	100.00	0.00	6.41	≤23.98	PASS
		5670	4.75	100.00	0.00	4.75	≤23.98	PASS
11AC20SISO	Ant1	5500	6.12	100.00	0.00	6.12	≤23.98	PASS
		5580	6.28	100.00	0.00	6.28	≤23.98	PASS
		5700	3.72	100.00	0.00	3.72	≤23.98	PASS
11AC40SISO	Ant1	5510	6.33	100.00	0.00	6.33	≤23.98	PASS
		5590	5.68	100.00	0.00	5.68	≤23.98	PASS
		5670	4.82	100.00	0.00	4.82	≤23.98	PASS
11AC80SISO	Ant1	5530	5.93	100.00	0.00	5.93	≤23.98	PASS
		5610	5.32	100.00	0.00	5.32	≤23.98	PASS

Appendix D.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5500	-5.58	≤11.00	PASS
		5580	-5.17	≤11.00	PASS
		5700	-7.87	≤11.00	PASS
11N20SISO	Ant1	5500	-5.97	≤11.00	PASS
		5580	-5.40	≤11.00	PASS
		5700	-8.03	≤11.00	PASS
11N40SISO	Ant1	5510	-7.35	≤11.00	PASS
		5590	-8.29	≤11.00	PASS
		5670	-9.78	≤11.00	PASS
11AC20SISO	Ant1	5500	-5.58	≤11.00	PASS
		5580	-5.68	≤11.00	PASS
		5700	-8.04	≤11.00	PASS
11AC40SISO	Ant1	5510	-7.96	≤11.00	PASS
		5590	-9.01	≤11.00	PASS
		5670	-9.68	≤11.00	PASS
11AC80SISO	Ant1	5530	-9.71	≤11.00	PASS
		5610	-10.31	≤11.00	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.
 2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

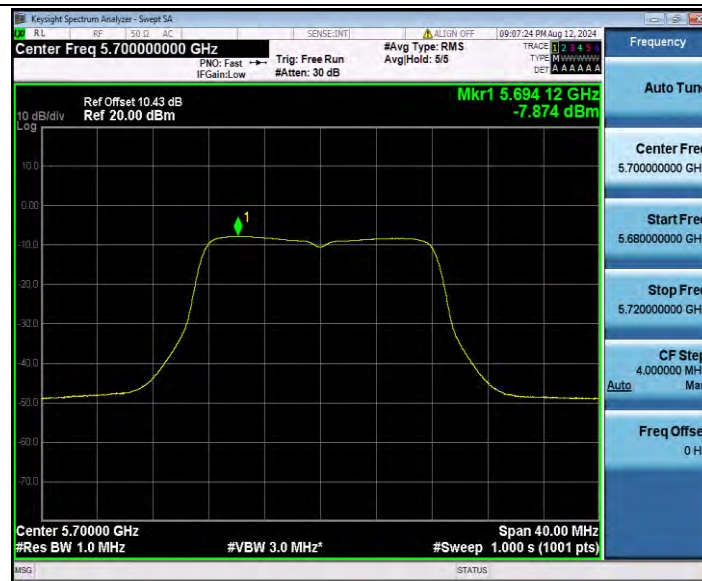
11A_Ant1_5500



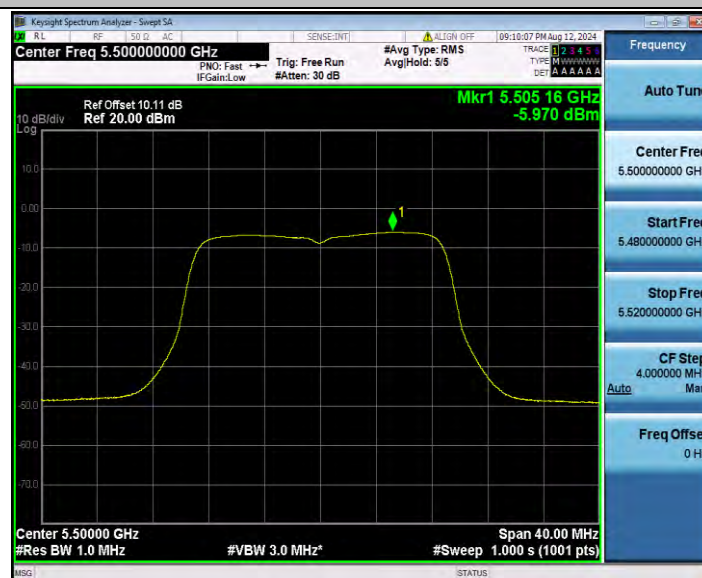
11A_Ant1_5580



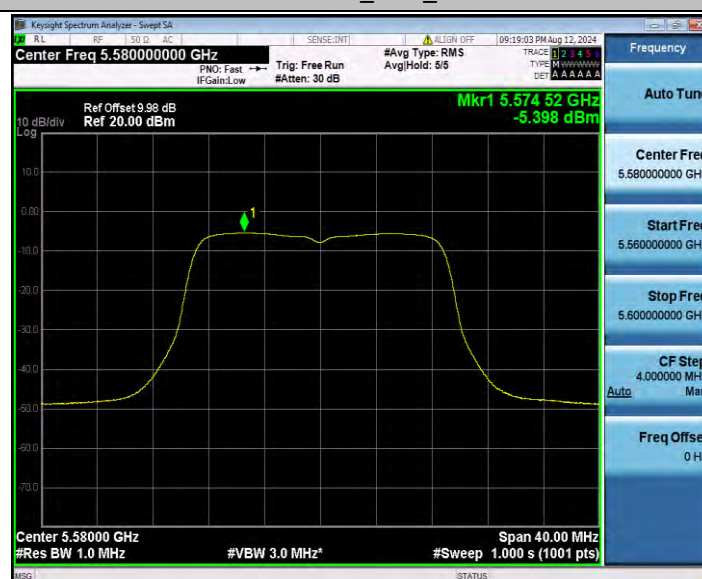
11A_Ant1_5700



11N20SISO_Ant1_5500



11N20SISO_Ant1_5580



11N20SISO_Ant1_5700



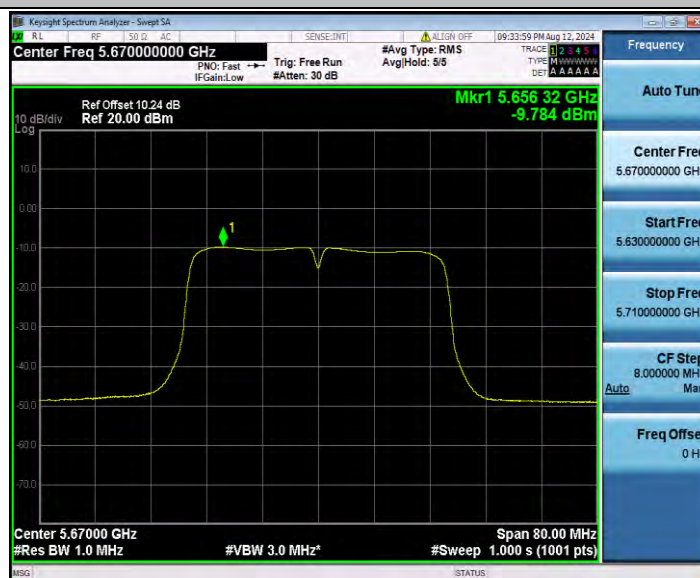
11N40SISO_Ant1_5510



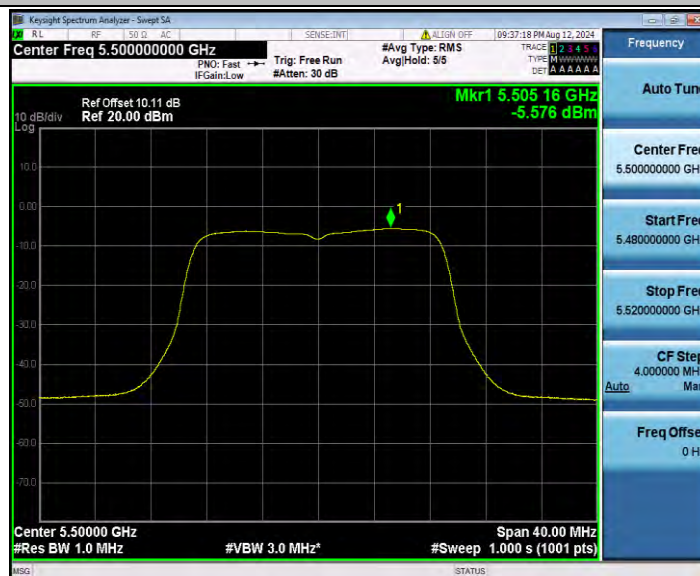
11N40SISO_Ant1_5590



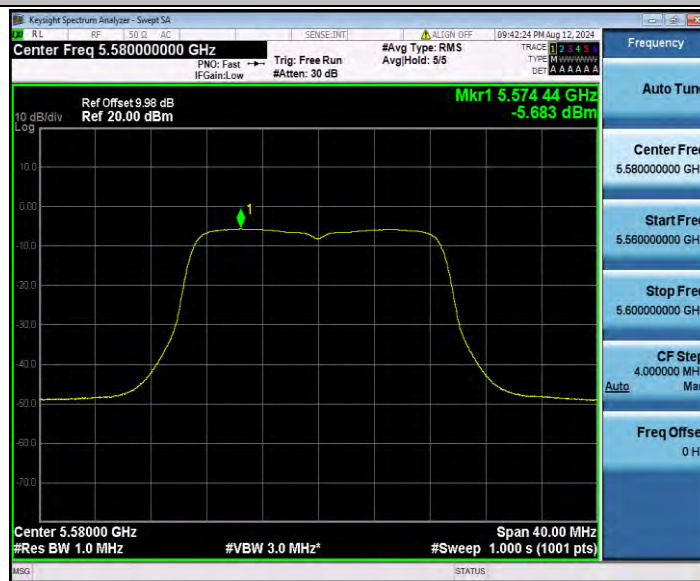
11N40SISO_Ant1_5670



11AC20SISO_Ant1_5500



11AC20SISO_Ant1_5580



11AC20SISO_Ant1_5700



11AC40SISO_Ant1_5510



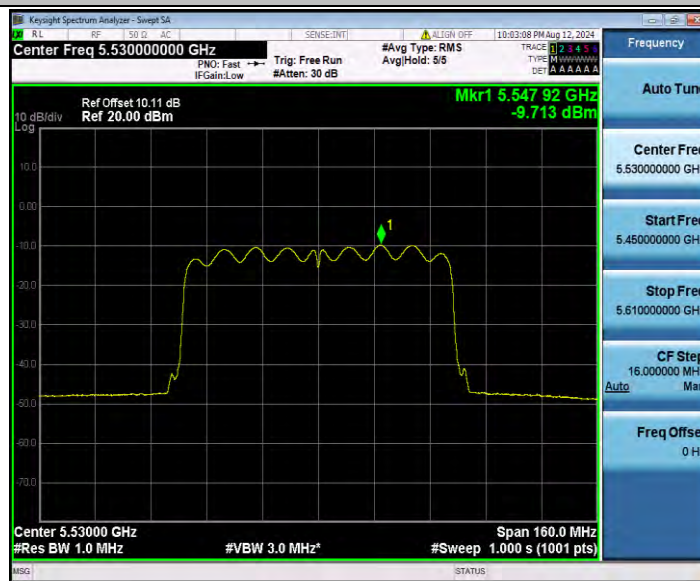
11AC40SISO_Ant1_5590



11AC40SISO_Ant1_5670



11AC80SISO_Ant1_5530



11AC80SISO_Ant1_5610

