

Case No. : <u>CTA24080500102</u>	
Ambient Condition: <u>23</u> °C, <u>51</u> %RH	
According Standard: ■Part15E	
Test Date: <u>2024.8.13</u>	Test Engineer: <u>Lushan Kong</u>

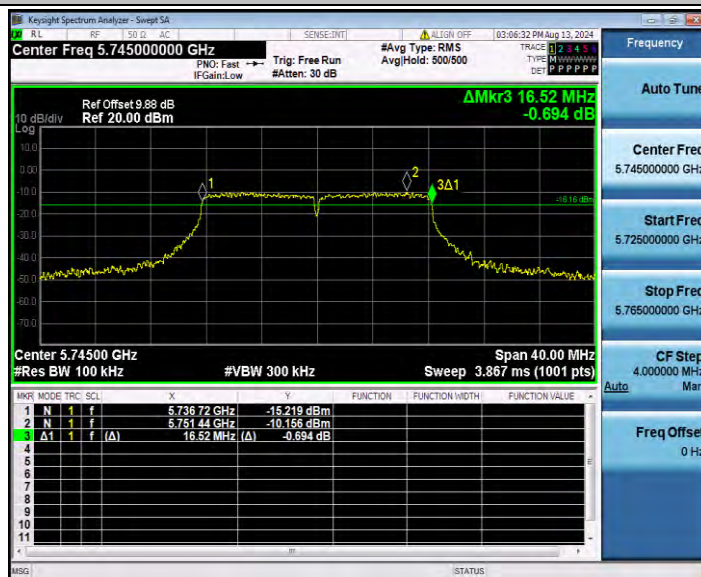
Appendix E.1: Min emission bandwidth

Test Result B4

TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.520	5736.720	5753.240	0.5	PASS
		5785	16.520	5776.720	5793.240	0.5	PASS
		5825	16.520	5816.720	5833.240	0.5	PASS
11N20SISO	Ant1	5745	17.640	5736.160	5753.800	0.5	PASS
		5785	17.640	5776.160	5793.800	0.5	PASS
		5825	17.640	5816.160	5833.800	0.5	PASS
11N40SISO	Ant1	5755	36.400	5736.760	5773.160	0.5	PASS
		5795	36.320	5776.840	5813.160	0.5	PASS
11AC20SISO	Ant1	5745	17.640	5736.160	5753.800	0.5	PASS
		5785	17.640	5776.160	5793.800	0.5	PASS
		5825	17.640	5816.160	5833.800	0.5	PASS
11AC40SISO	Ant1	5755	36.400	5736.760	5773.160	0.5	PASS
		5795	36.320	5776.840	5813.160	0.5	PASS
11AC80SISO	Ant1	5775	75.520	5737.400	5812.920	0.5	PASS

Test Graphs B4

11A_Ant1_5745



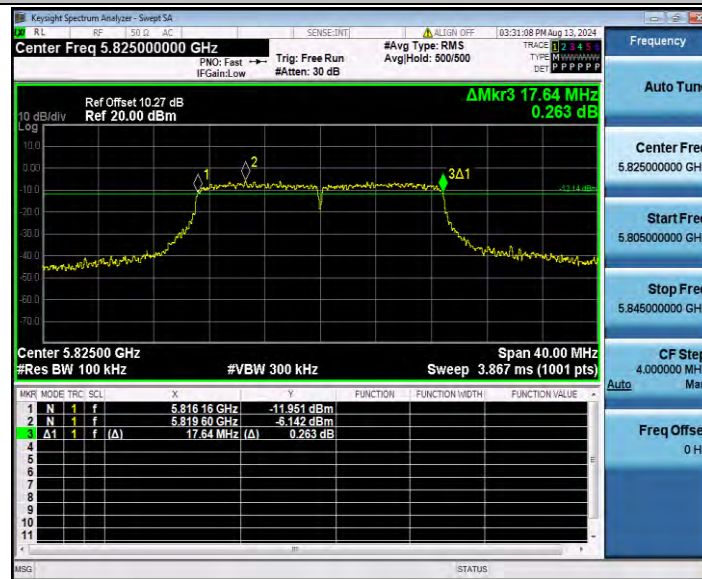
11A_Ant1_5785



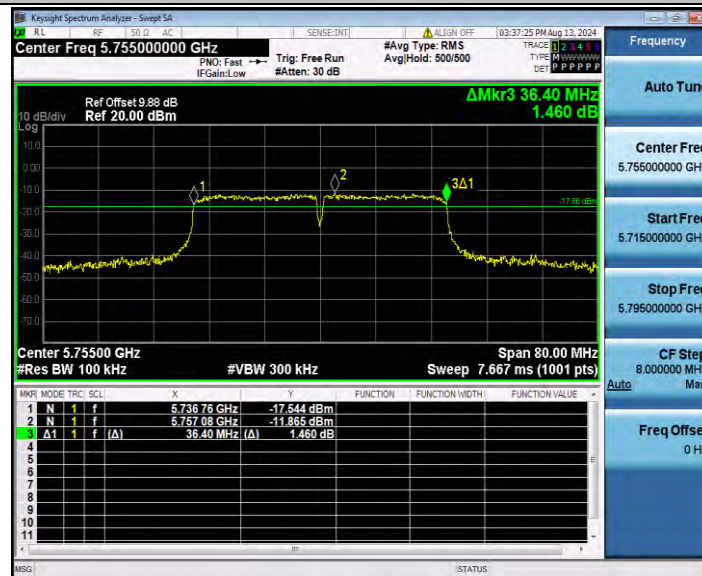
11A_Ant1_5825



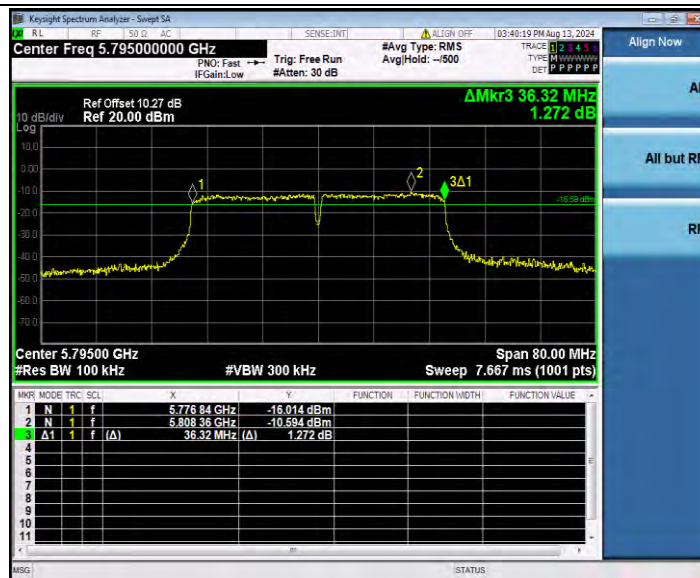
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



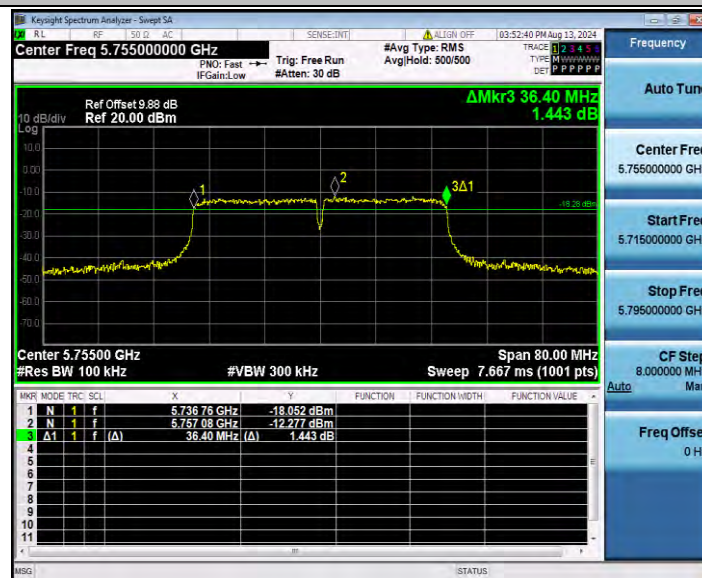
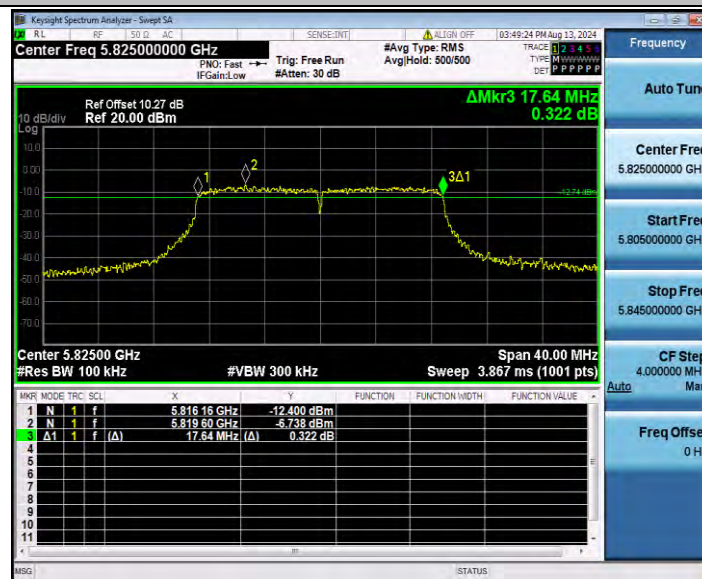
11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825





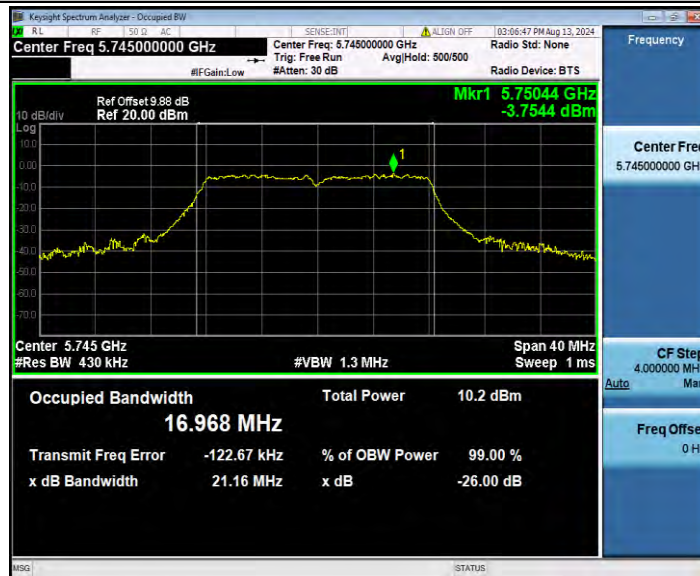
Appendix E.2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.968	5736.3933	5753.3613	---	---
		5785	16.995	5776.4075	5793.4025	---	---
		5825	16.936	5816.4329	5833.3689	---	---
11N20SISO	Ant1	5745	17.918	5735.9888	5753.9068	---	---
		5785	17.891	5776.0360	5793.9270	---	---
		5825	17.886	5816.0318	5833.9178	---	---
11N40SISO	Ant1	5755	36.583	5736.7798	5773.3628	---	---
		5795	36.537	5776.8708	5813.4078	---	---
11AC20SISO	Ant1	5745	17.953	5735.9950	5753.9480	---	---
		5785	17.937	5776.0111	5793.9481	---	---
		5825	17.896	5816.0260	5833.9220	---	---
11AC40SISO	Ant1	5755	36.579	5736.7326	5773.3116	---	---
		5795	36.581	5776.8136	5813.3946	---	---
11AC80SISO	Ant1	5775	75.454	5737.4380	5812.8920	---	---

Test Graphs

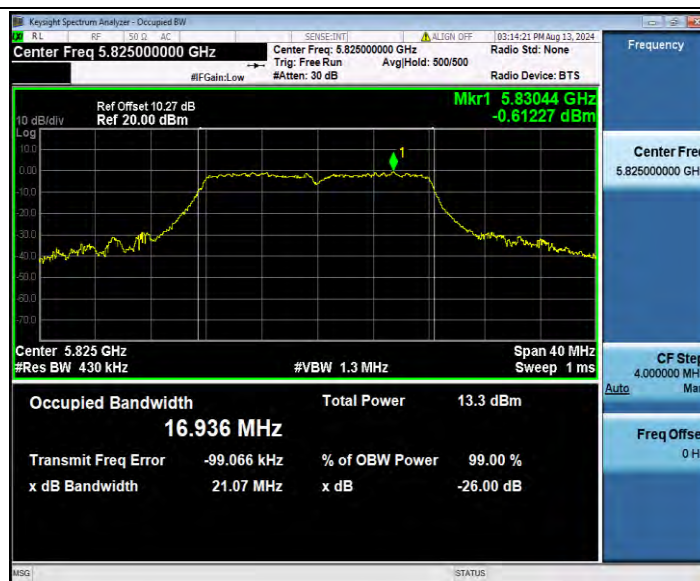
11A_Ant1_5745



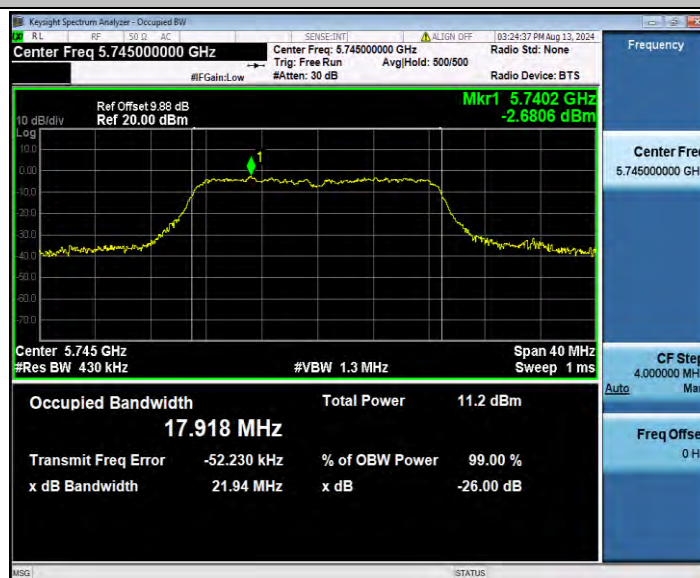
11A_Ant1_5785



11A_Ant1_5825



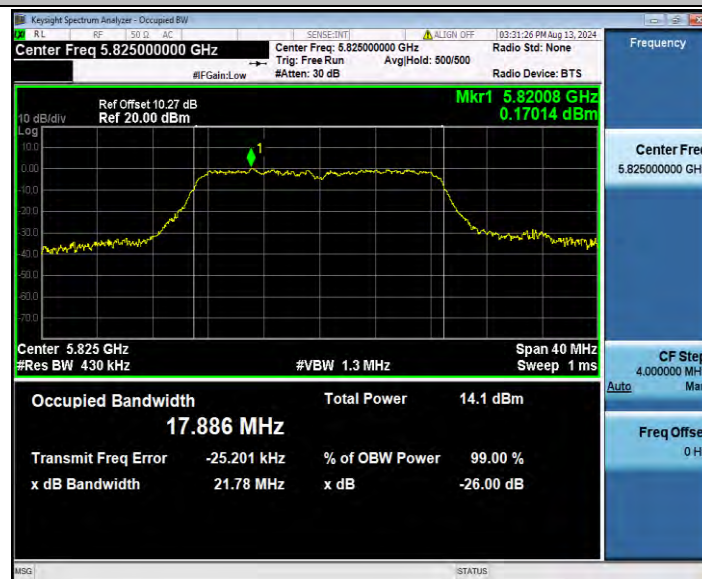
11N20SISO_Ant1_5745



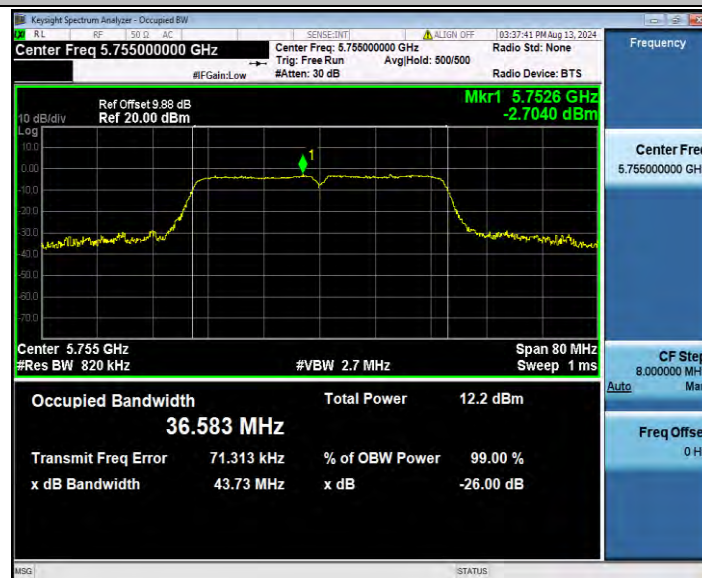
11N20SISO_Ant1_5785



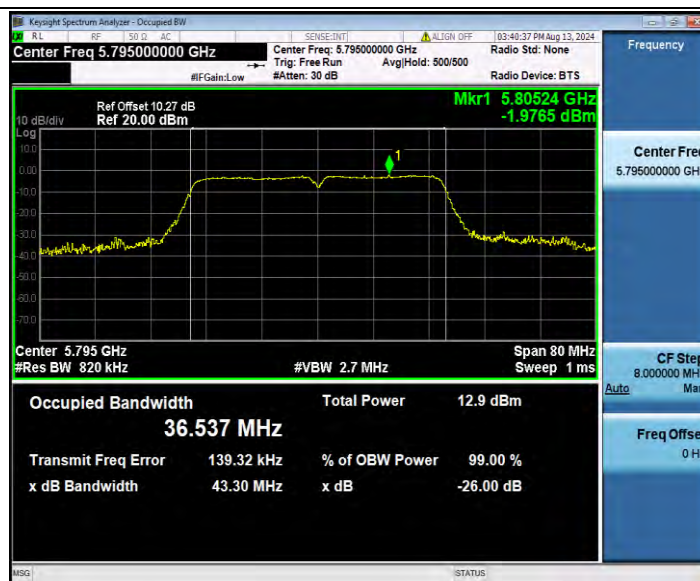
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



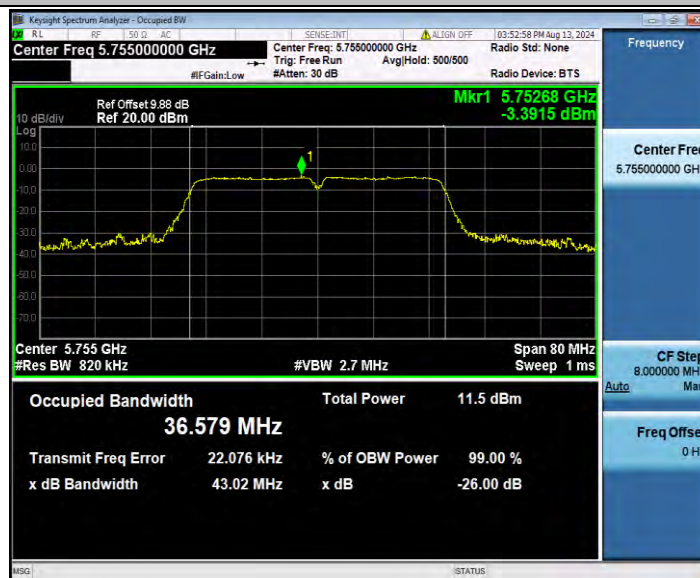
11AC20SISO_Ant1_5785



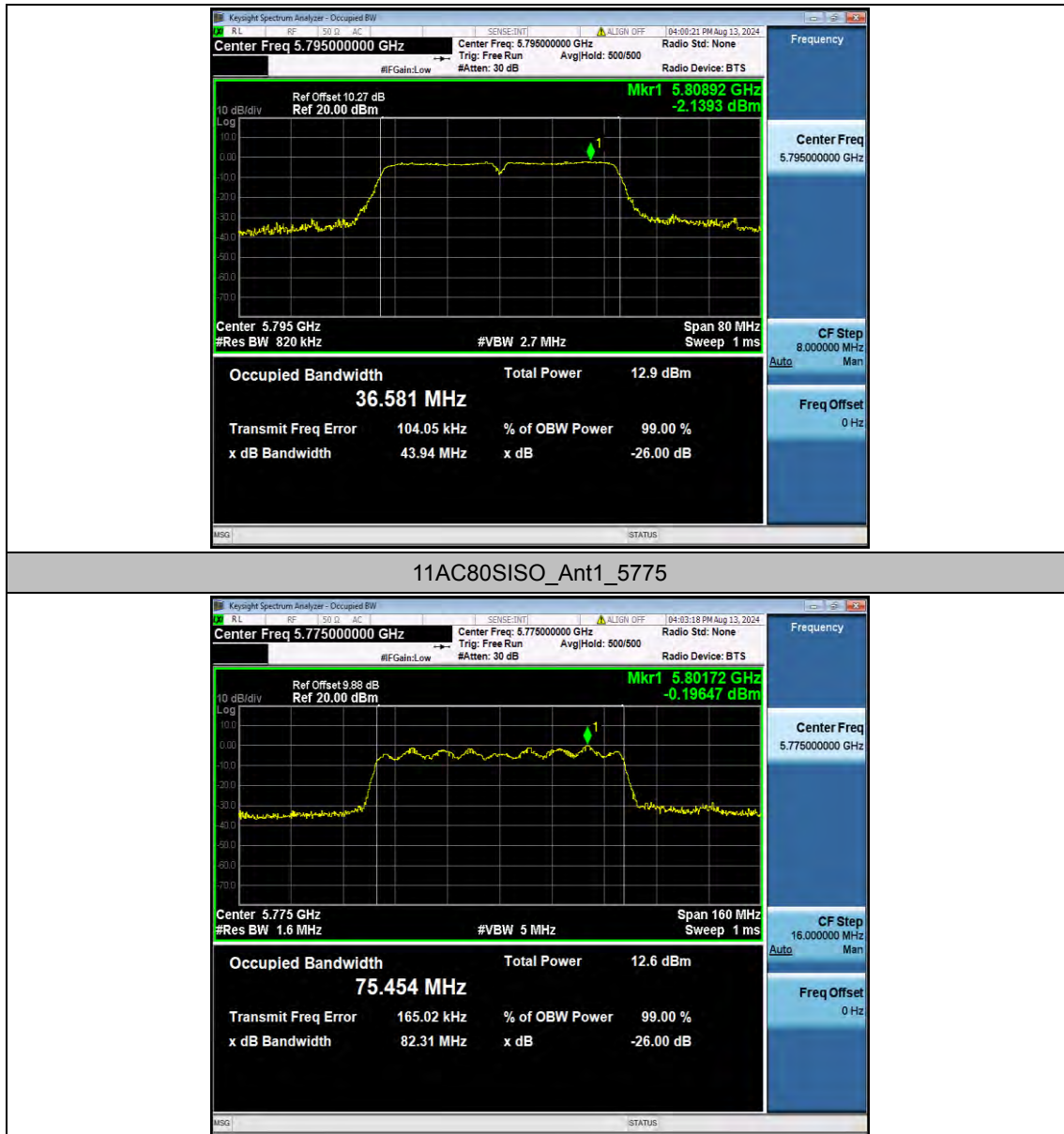
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



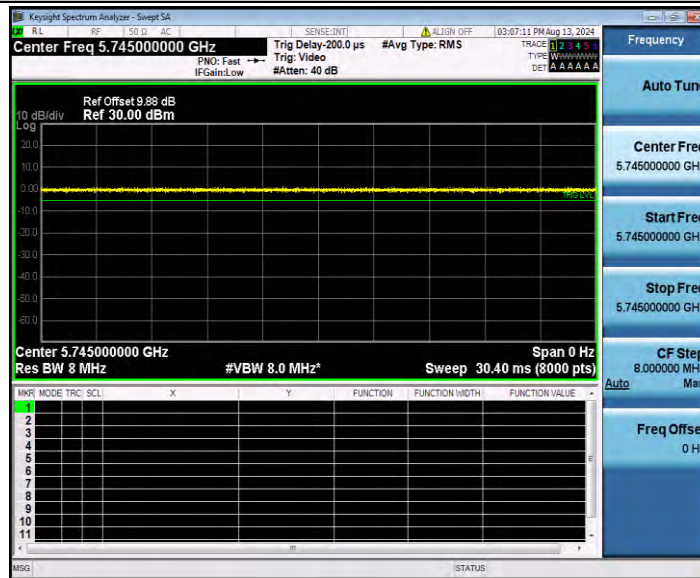
Appendix E.3: Duty Cycle

Test Result

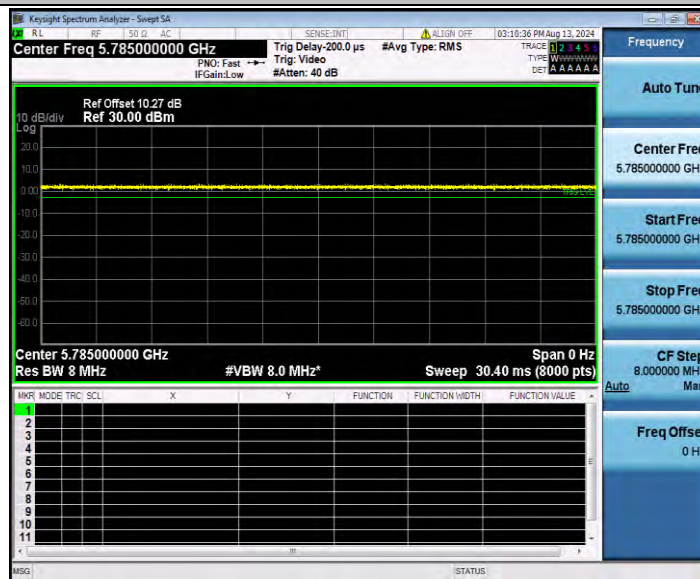
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5745	30.00	30.00	100.00	0.00	0.03
		5785	30.00	30.00	100.00	0.00	0.03
		5825	30.00	30.00	100.00	0.00	0.03
11N20SISO	Ant1	5745	30.00	30.00	100.00	0.00	0.03
		5785	30.00	30.00	100.00	0.00	0.03
		5825	30.00	30.00	100.00	0.00	0.03
11N40SISO	Ant1	5755	30.00	30.00	100.00	0.00	0.03
		5795	30.00	30.00	100.00	0.00	0.03
11AC20SISO	Ant1	5745	30.00	30.00	100.00	0.00	0.03
		5785	30.00	30.00	100.00	0.00	0.03
		5825	30.00	30.00	100.00	0.00	0.03
11AC40SISO	Ant1	5755	30.00	30.00	100.00	0.00	0.03
		5795	30.00	30.00	100.00	0.00	0.03
11AC80SISO	Ant1	5775	30.00	30.00	100.00	0.00	0.03

Test Graphs

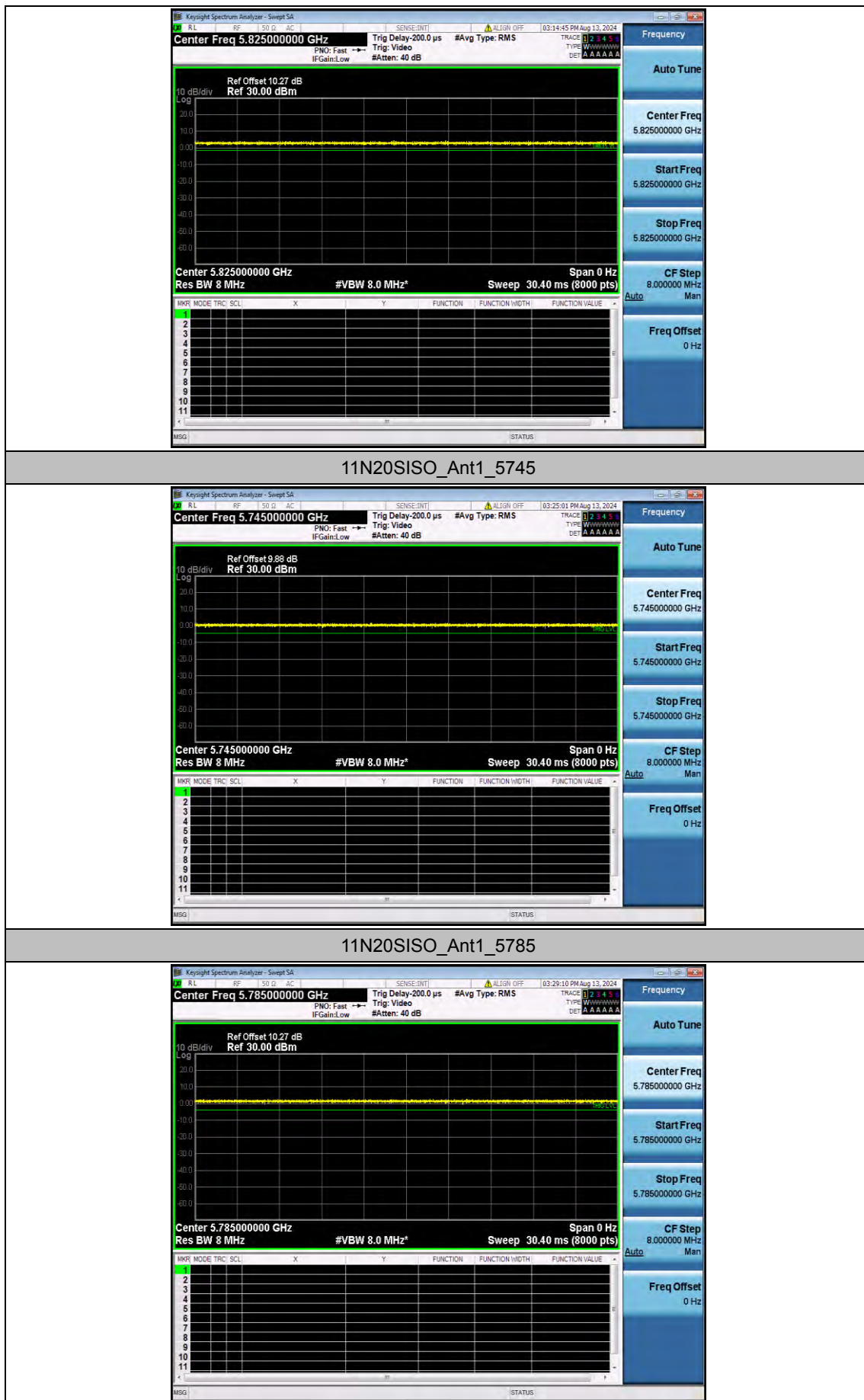
11A_Ant1_5745



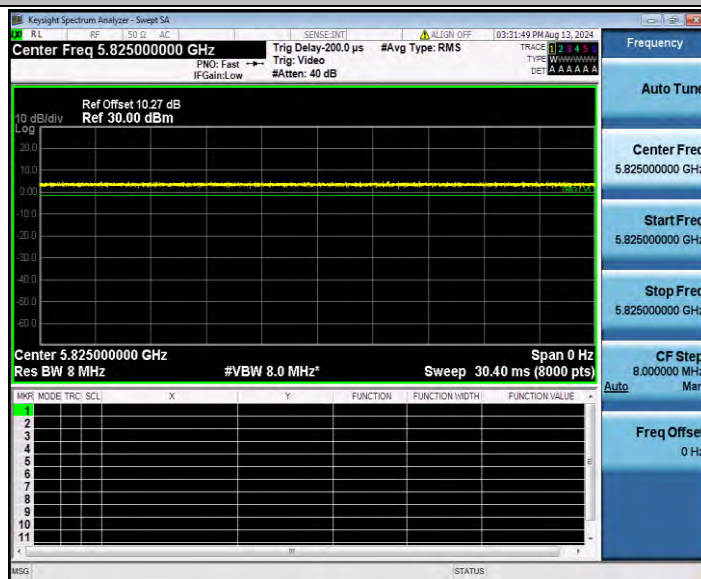
11A_Ant1_5785



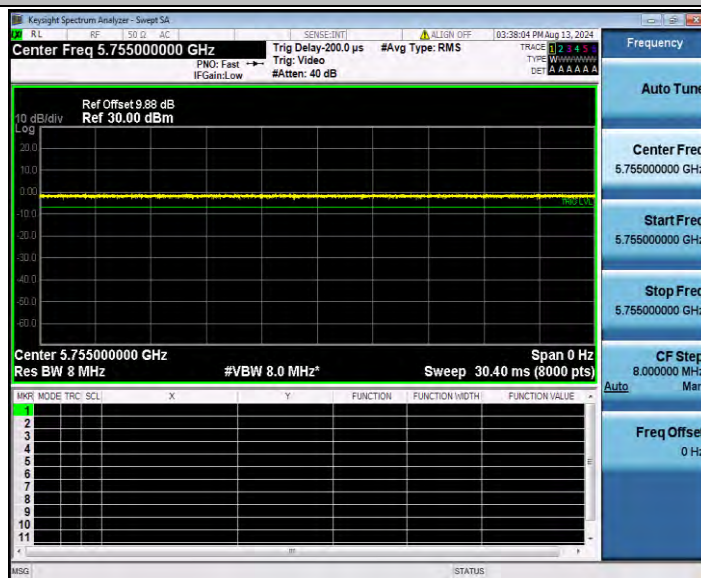
11A_Ant1_5825



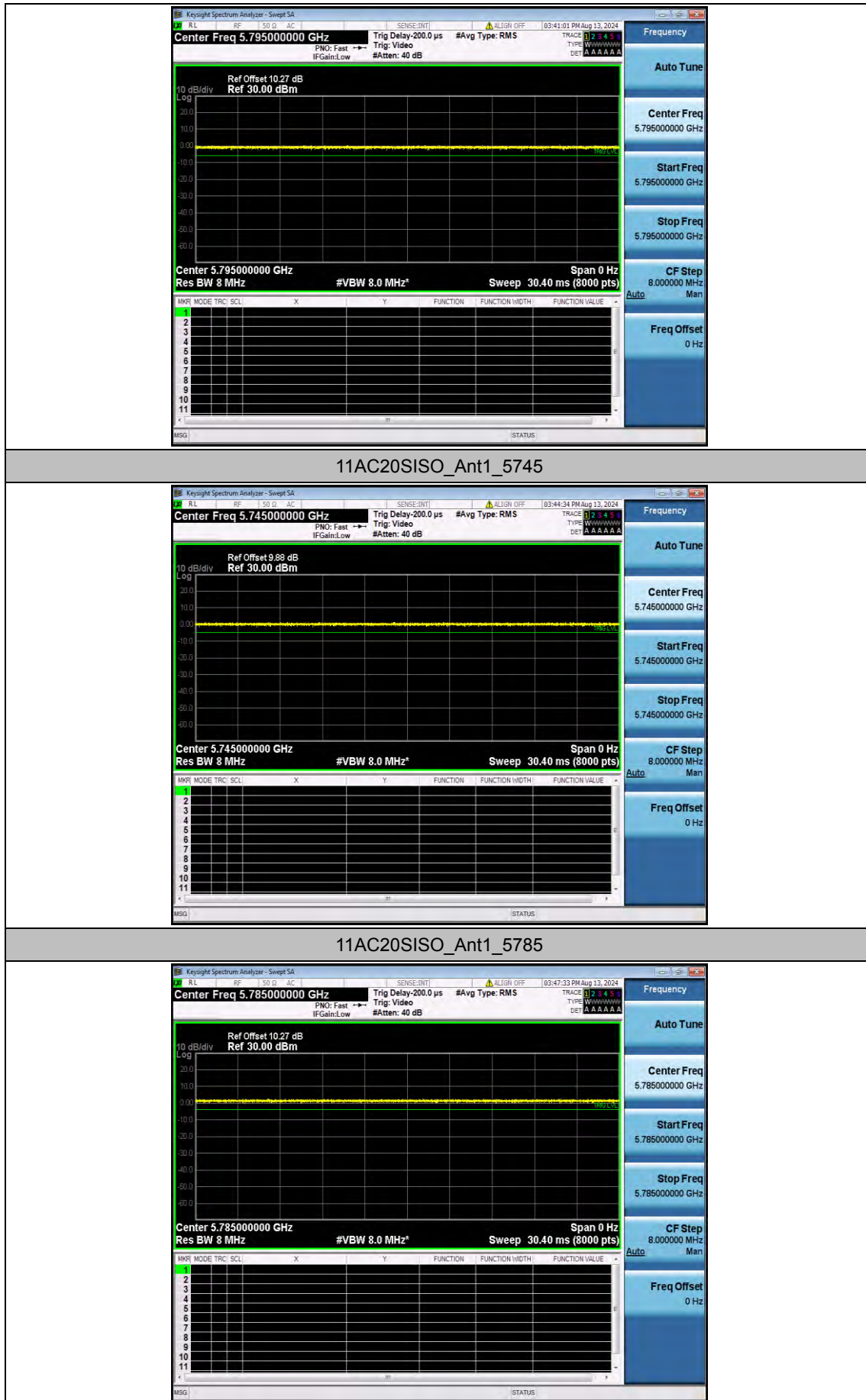
11N20SISO_Ant1_5825



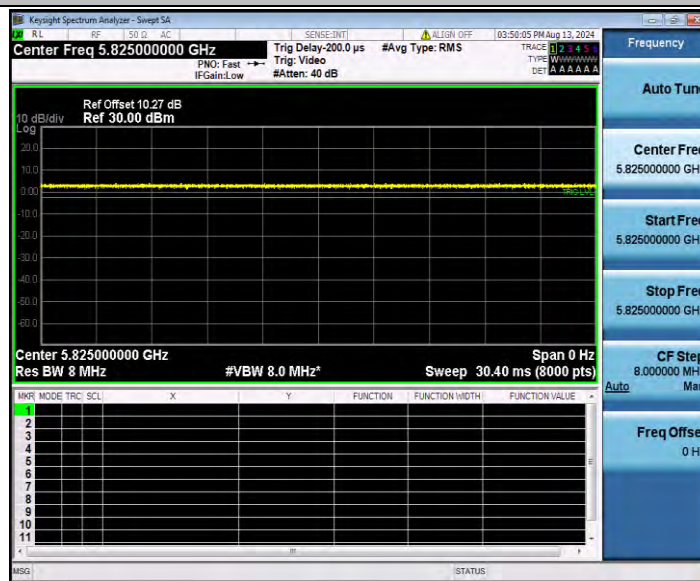
11N40SISO_Ant1_5755



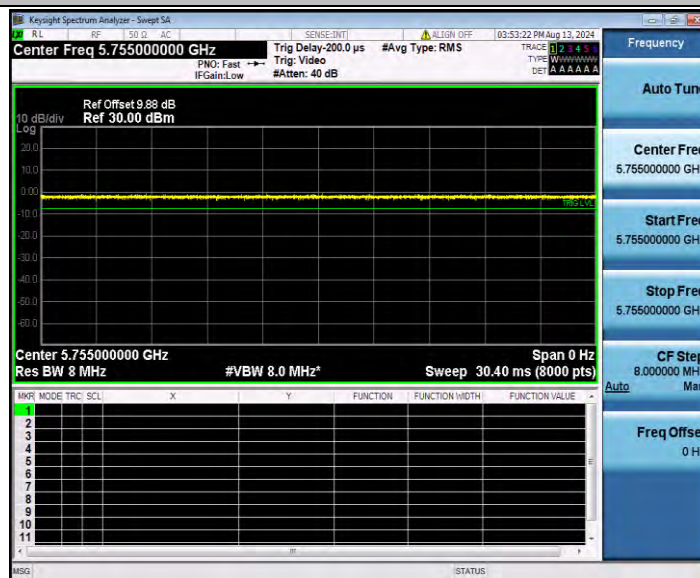
11N40SISO_Ant1_5795



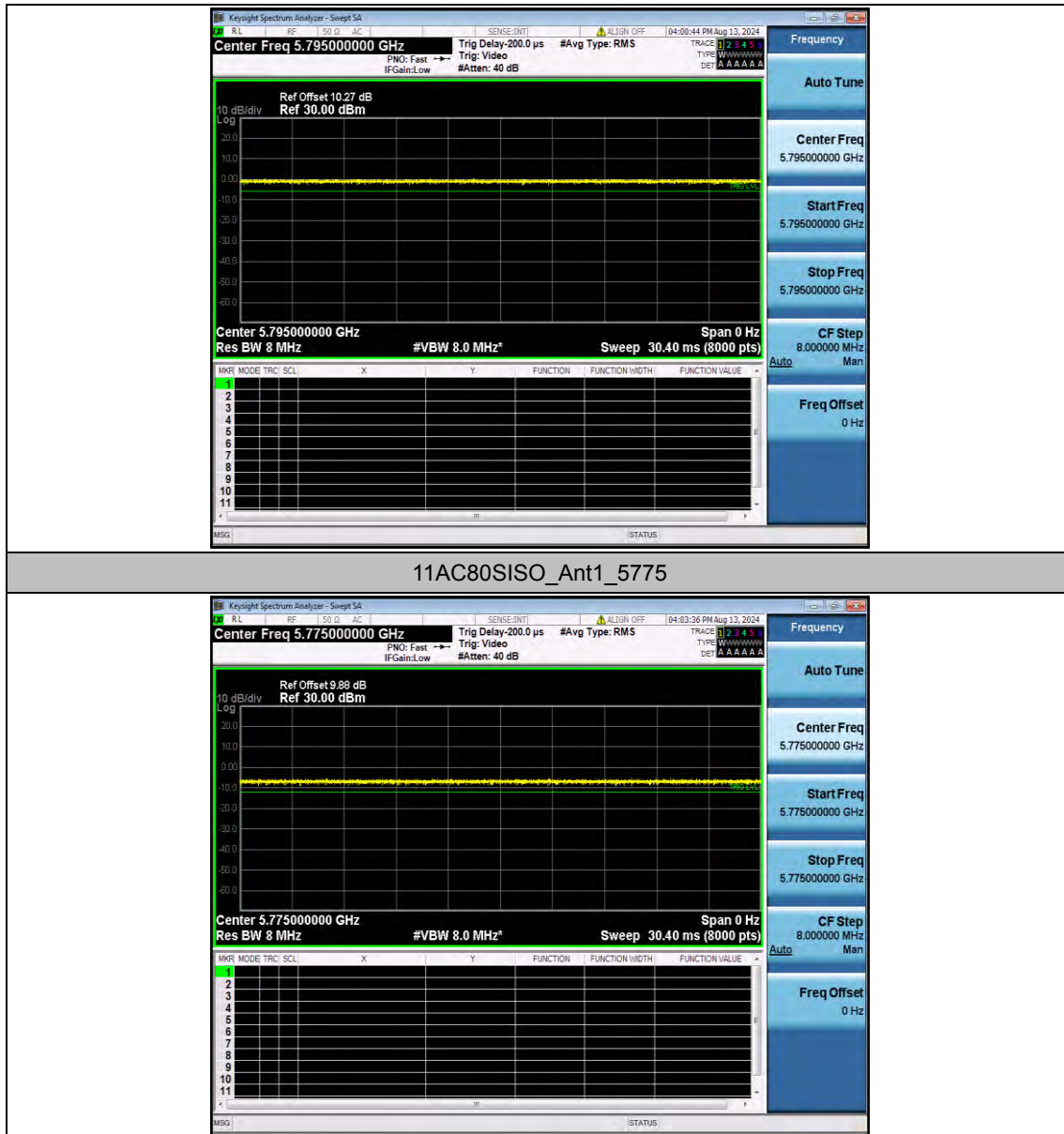
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



Appendix E.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	5745	5.66	100.00	0.00	5.66	≤30.00	PASS
		5785	6.00	100.00	0.00	6.00	≤30.00	PASS
		5825	6.92	100.00	0.00	6.92	≤30.00	PASS
11N20SISO	Ant1	5745	4.51	100.00	0.00	4.51	≤30.00	PASS
		5785	5.38	100.00	0.00	5.38	≤30.00	PASS
		5825	5.35	100.00	0.00	5.35	≤30.00	PASS
11N40SISO	Ant1	5755	4.96	100.00	0.00	4.96	≤30.00	PASS
		5795	5.68	100.00	0.00	5.68	≤30.00	PASS
11AC20SISO	Ant1	5745	3.66	100.00	0.00	3.66	≤30.00	PASS
		5785	5.17	100.00	0.00	5.17	≤30.00	PASS
		5825	6.55	100.00	0.00	6.55	≤30.00	PASS
11AC40SISO	Ant1	5755	4.30	100.00	0.00	4.30	≤30.00	PASS
		5795	5.68	100.00	0.00	5.68	≤30.00	PASS
11AC80SISO	Ant1	5775	3.71	100.00	0.00	3.71	≤30.00	PASS

Appendix E.5: Maximum power spectral density

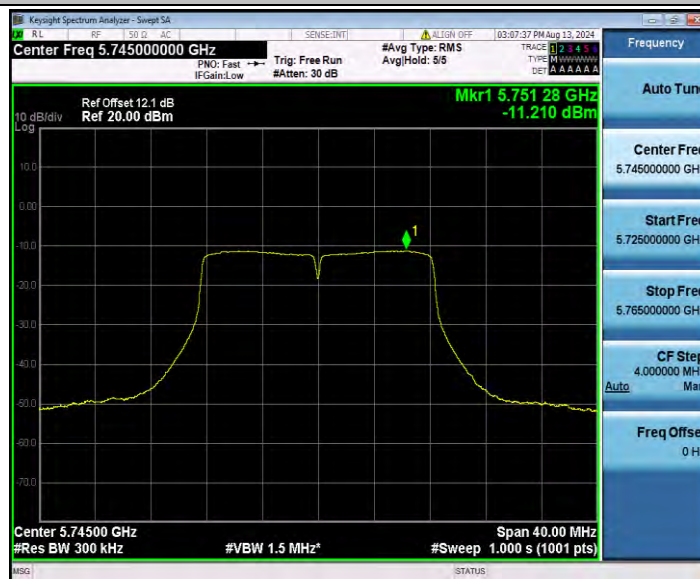
Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-11.21	≤30.00	PASS
		5785	-8.87	≤30.00	PASS
		5825	-7.91	≤30.00	PASS
11N20SISO	Ant1	5745	-10.24	≤30.00	PASS
		5785	-9.19	≤30.00	PASS
		5825	-7.91	≤30.00	PASS
11N40SISO	Ant1	5755	-12.73	≤30.00	PASS
		5795	-11.50	≤30.00	PASS
11AC20SISO	Ant1	5745	-10.74	≤30.00	PASS
		5785	-9.25	≤30.00	PASS
		5825	-7.82	≤30.00	PASS
11AC40SISO	Ant1	5755	-13.29	≤30.00	PASS
		5795	-11.64	≤30.00	PASS
11AC80SISO	Ant1	5775	-15.36	≤30.00	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

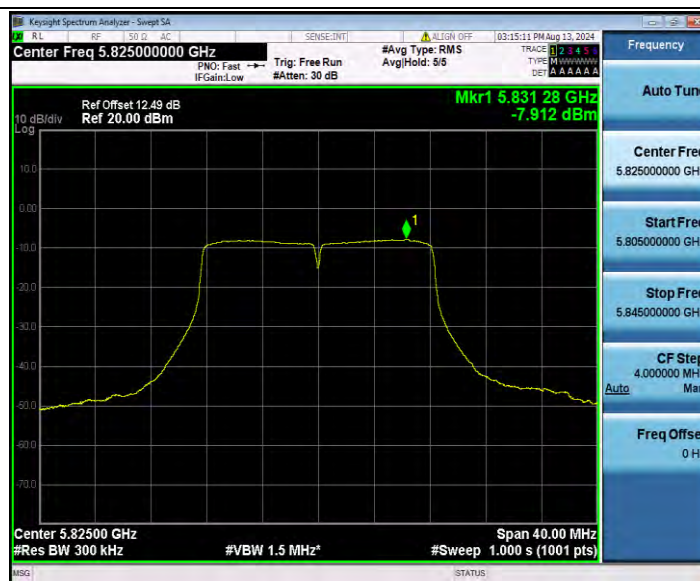
11A_Ant1_5745



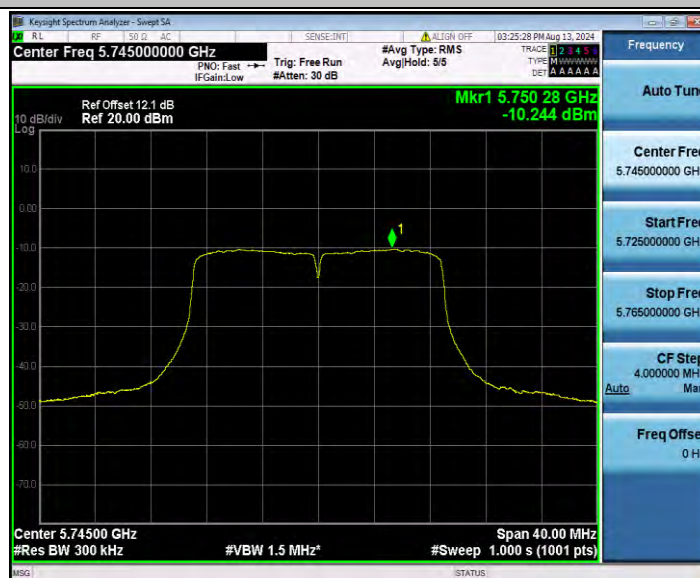
11A_Ant1_5785



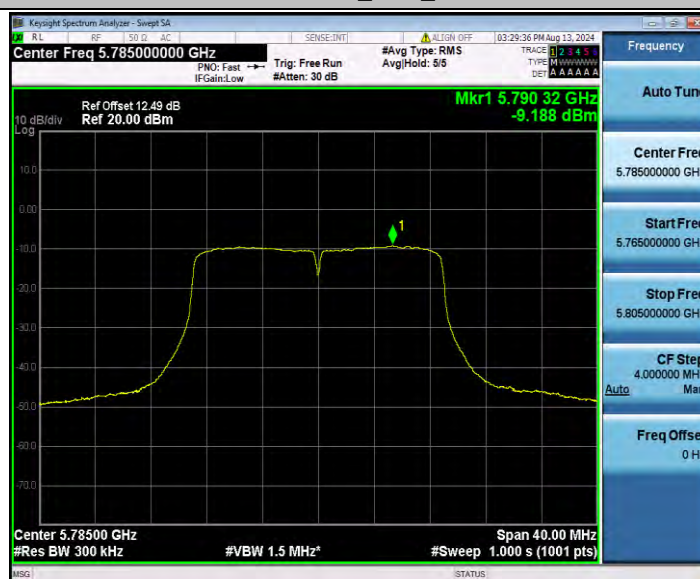
11A_Ant1_5825



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



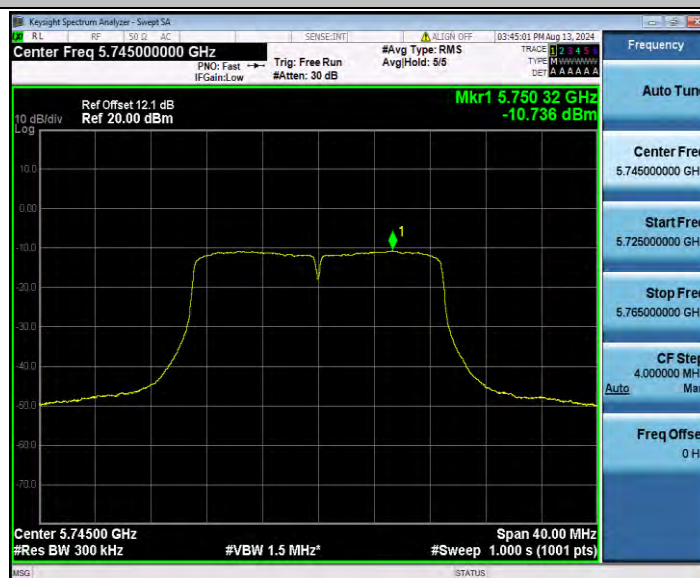
11N40SISO_Ant1_5755



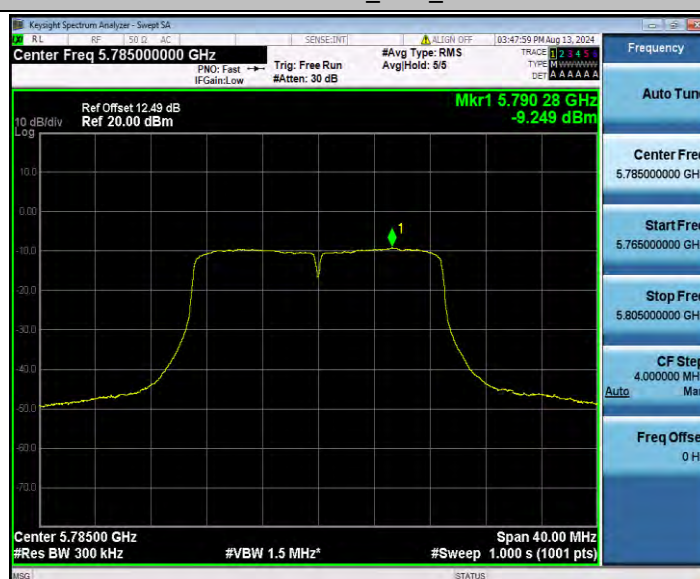
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



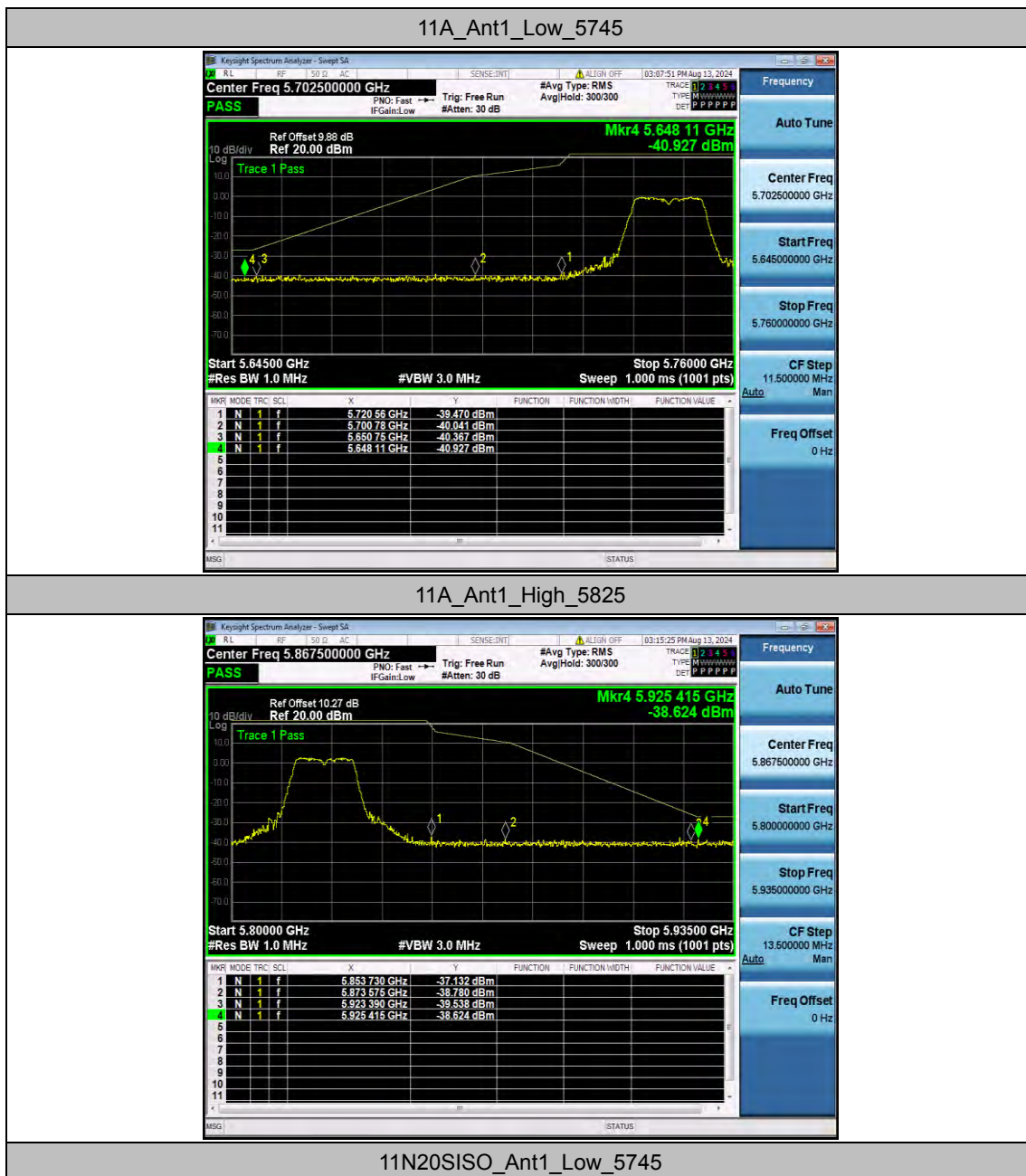
Appendix E.6: Band edge measurements

Test Result B4

TestMode	Antenna	ChName	Freq(MHz)	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-40.37	≤-26.45	PASS
				5700~5720	-40.04	≤10.22	PASS
				5720~5725	-39.47	≤16.87	PASS
				5760~5650	-40.93	≤-27	PASS
		High	5825	5850~5855	-37.13	≤18.50	PASS
				5855~5875	-38.78	≤10.40	PASS
				5875~5925	-39.54	≤-25.81	PASS
				5925~5935	-38.62	≤-27	PASS
11N20SI SO	Ant1	Low	5745	5650~5700	-40.47	≤-26.96	PASS
				5700~5720	-39.78	≤10.76	PASS
				5720~5725	-39.03	≤15.82	PASS
				5760~5650	-39.99	≤-27	PASS
		High	5825	5850~5855	-40.42	≤16.65	PASS
				5855~5875	-39.38	≤10.25	PASS
				5875~5925	-38.97	≤-26.71	PASS
				5925~5935	-38.8	≤-27	PASS
11N40SI SO	Ant1	Low	5755	5650~5700	-41.06	≤-26.90	PASS
				5700~5720	-37.06	≤10.63	PASS
				5720~5725	-30.92	≤17.58	PASS
				5780~5650	-40.15	≤-27	PASS
		High	5795	5850~5855	-38.52	≤16.41	PASS
				5855~5875	-38.86	≤10.16	PASS
				5875~5925	-39.59	≤-26.46	PASS
				5925~5935	-37.87	≤-27	PASS
11AC20S ISO	Ant1	Low	5745	5650~5700	-40.49	≤-26.10	PASS
				5700~5720	-39.14	≤10.28	PASS
				5720~5725	-37.31	≤16.08	PASS
				5760~5650	-38.62	≤-27	PASS
		High	5825	5850~5855	-40.25	≤15.73	PASS
				5855~5875	-38.65	≤10.44	PASS
				5875~5925	-39.16	≤-26.61	PASS
				5925~5935	-38.73	≤-27	PASS
11AC40S ISO	Ant1	Low	5755	5650~5700	-40.68	≤-26.90	PASS
				5700~5720	-32.28	≤15.31	PASS
				5720~5725	-33.23	≤16.04	PASS
				5780~5650	-38.43	≤-27	PASS

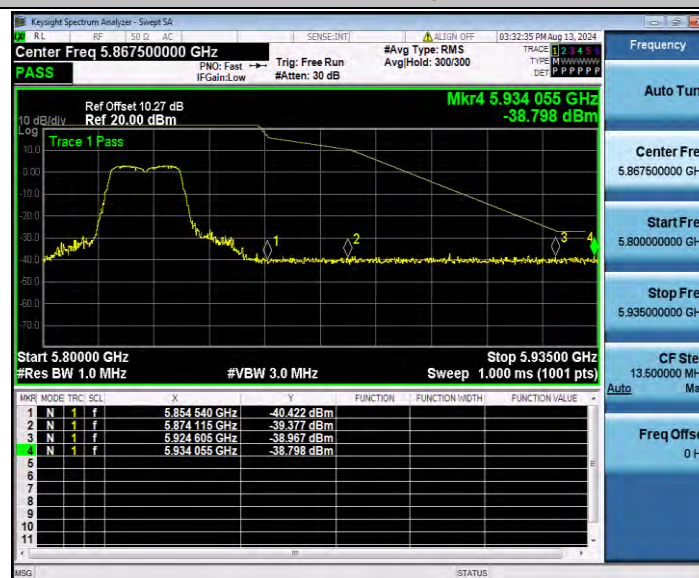
		High	5795	5850~5855	-39.3	≤ 15.66	PASS
				5855~5875	-37	≤ 11.73	PASS
				5875~5925	-38.91	≤ -26.59	PASS
				5925~5935	-38.93	≤ -27	PASS
11AC80S ISO	Ant1	Low	5775	5650~5700	-40.2	≤ -26.69	PASS
				5700~5720	-36.88	≤ 10.31	PASS
				5720~5725	-37.4	≤ 15.65	PASS
				5800~5650	-39.3	≤ -27	PASS
		High	5775	5850~5855	-38.29	≤ 15.84	PASS
				5855~5875	-36.53	≤ 12.73	PASS
				5875~5925	-39.47	≤ -26.73	PASS
				5925~5935	-38.32	≤ -27	PASS

Test Graphs B4





11N20SISO_Ant1_High_5825



11N40SISO_Ant1_Low_5755



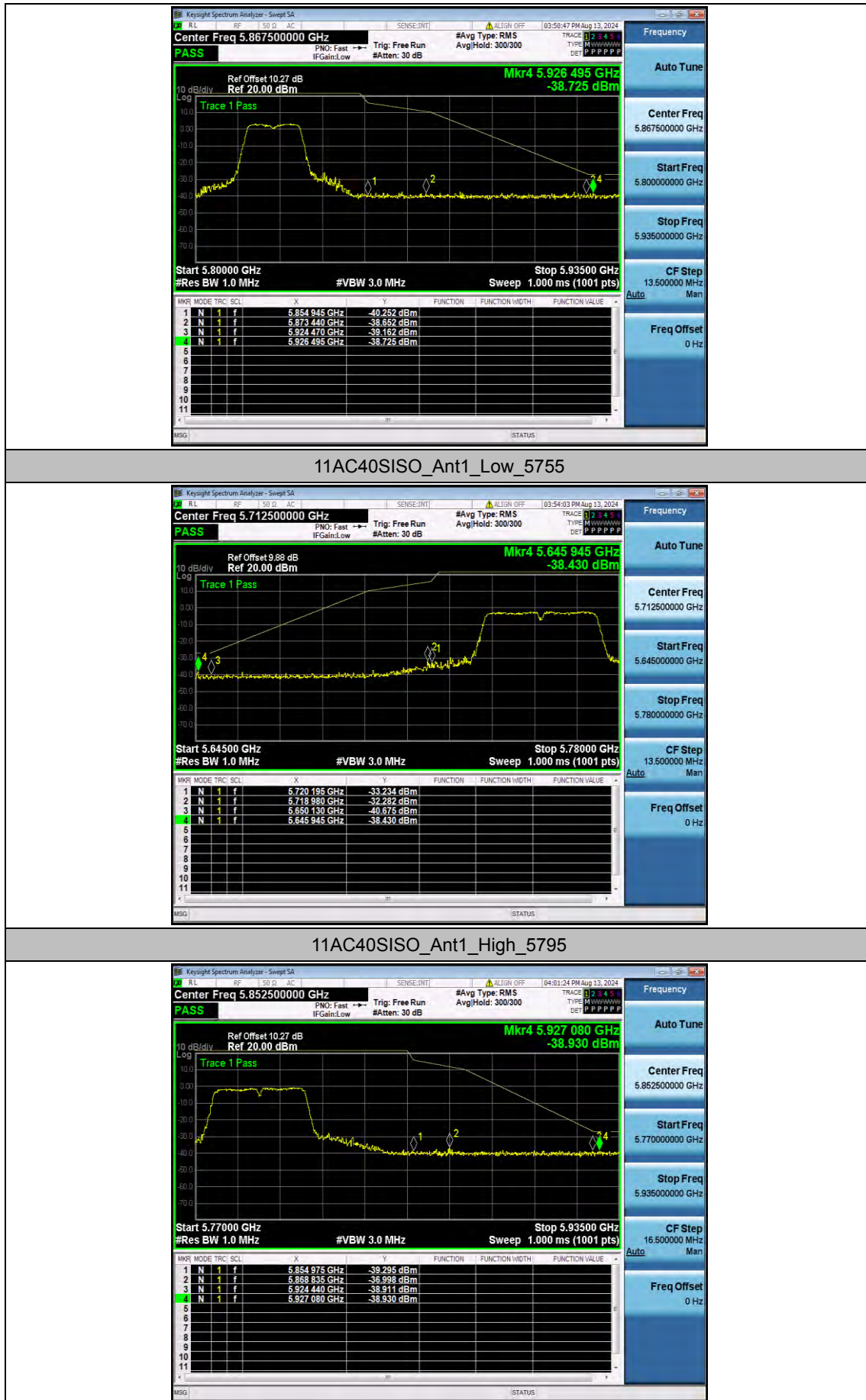
11N40SISO_Ant1_High_5795



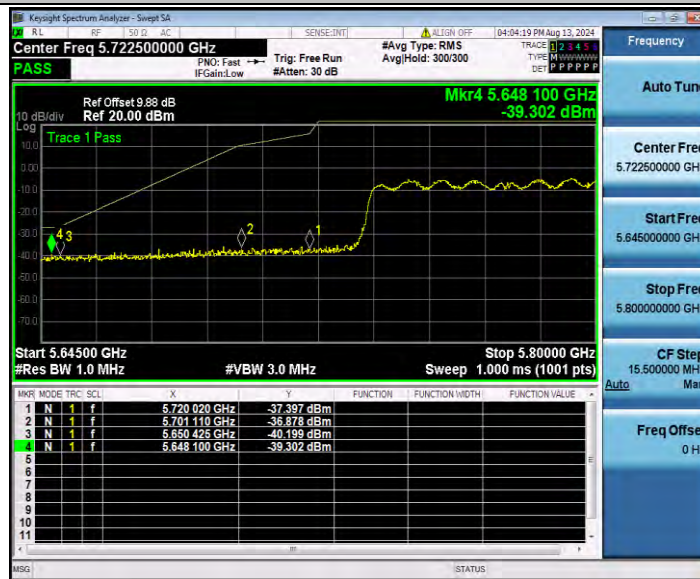
11AC20SISO_Ant1_Low_5745



11AC20SISO_Ant1_High_5825



11AC80SISO_Ant1_Low_5775



11AC80SISO_Ant1_High_5775

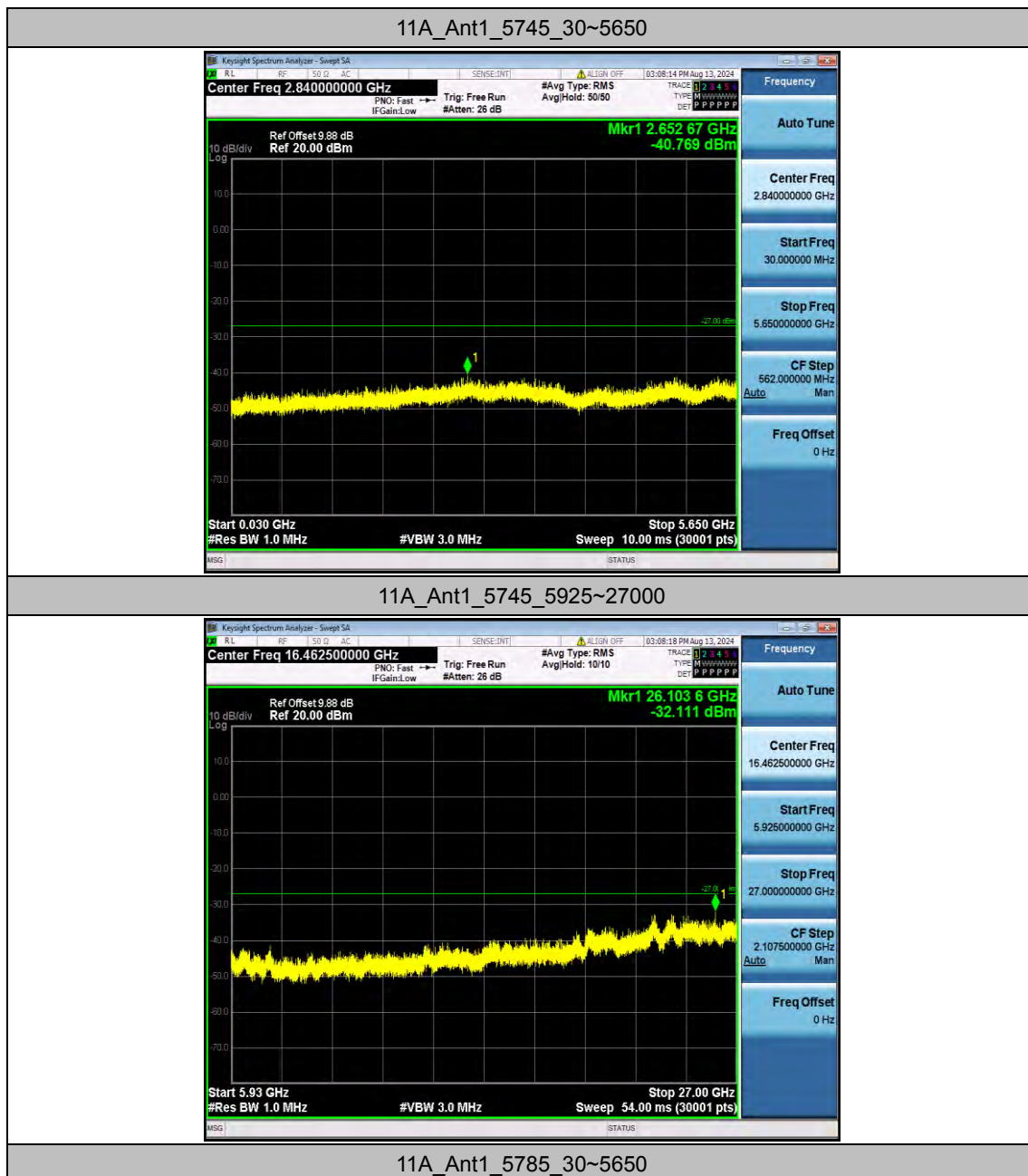


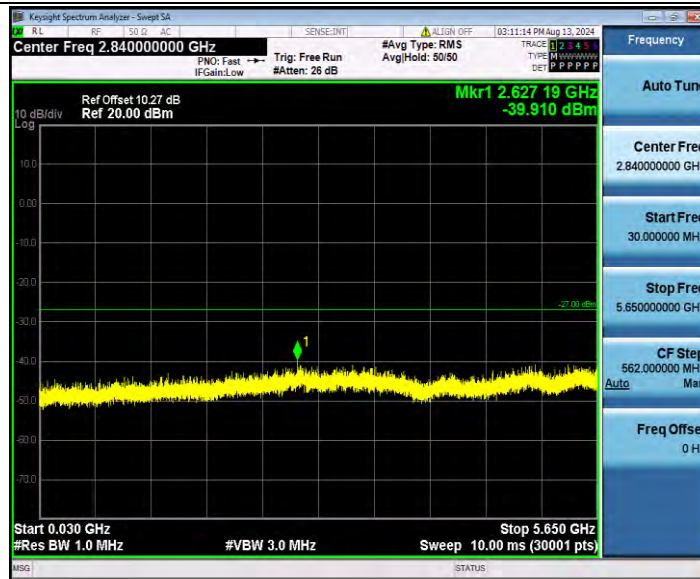
Appendix E.7: Conducted Spurious Emission

Test Result

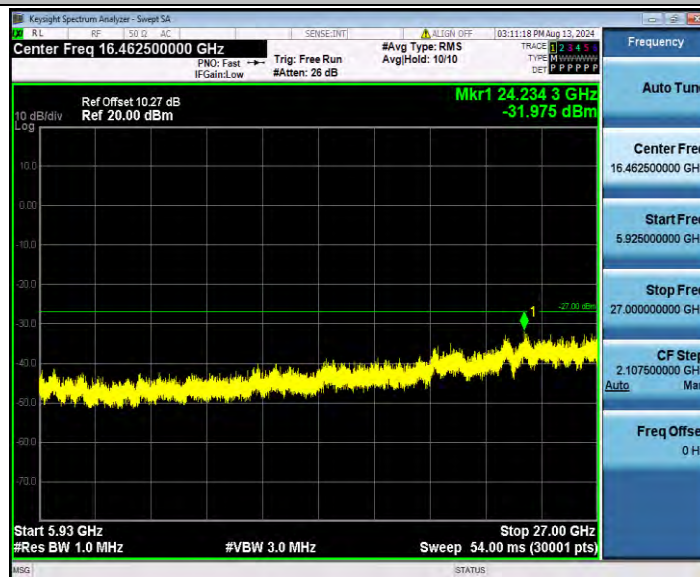
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	30~5650	2652.67	-40.77	≤-27	PASS
			5925~27000	26103.61	-32.11	≤-27	PASS
		5785	30~5650	2627.19	-39.91	≤-27	PASS
			5925~27000	24234.26	-31.98	≤-27	PASS
		5825	30~5650	5581.25	-40.35	≤-27	PASS
			5925~27000	24829.28	-32.01	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	5406.65	-40.7	≤-27	PASS
			5925~27000	23557.75	-32.79	≤-27	PASS
		5785	30~5650	2668.96	-39.31	≤-27	PASS
			5925~27000	25489.63	-31.63	≤-27	PASS
		5825	30~5650	5521.11	-40.43	≤-27	PASS
			5925~27000	24197.73	-31.67	≤-27	PASS
11N40SISO	Ant1	5755	30~5650	832.91	-39.8	≤-27	PASS
			5925~27000	24239.88	-32.54	≤-27	PASS
		5795	30~5650	5395.41	-39.59	≤-27	PASS
			5925~27000	23546.51	-31.89	≤-27	PASS
11AC20SISO	Ant1	5745	30~5650	5473.72	-39.83	≤-27	PASS
			5925~27000	26048.11	-31.75	≤-27	PASS
		5785	30~5650	5454.99	-39.88	≤-27	PASS
			5925~27000	24285.54	-31.36	≤-27	PASS
		5825	30~5650	5449.37	-40	≤-27	PASS
			5925~27000	24875.64	-31.5	≤-27	PASS
11AC40SISO	Ant1	5755	30~5650	5409.65	-40.17	≤-27	PASS
			5925~27000	24252.52	-32.62	≤-27	PASS
		5795	30~5650	5476.34	-39.12	≤-27	PASS
			5925~27000	26041.79	-30.36	≤-27	PASS
11AC80SISO	Ant1	5775	30~5650	5545.47	-40.58	≤-27	PASS
			5925~27000	26526.52	-31.31	≤-27	PASS

Test Graphs

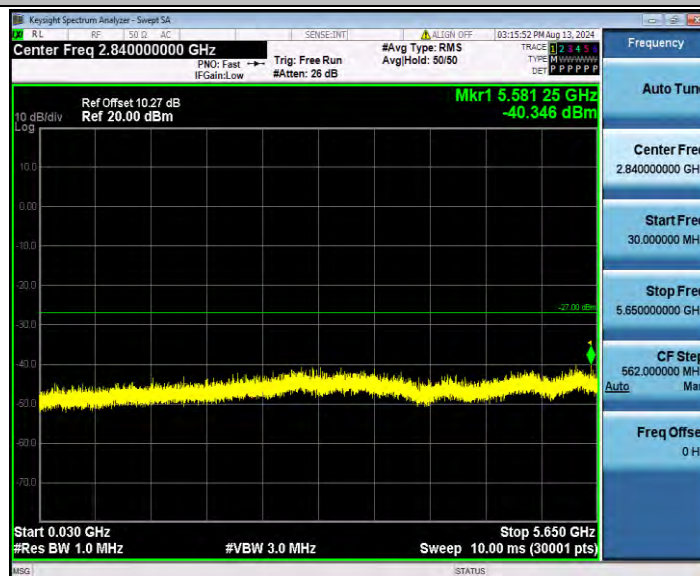




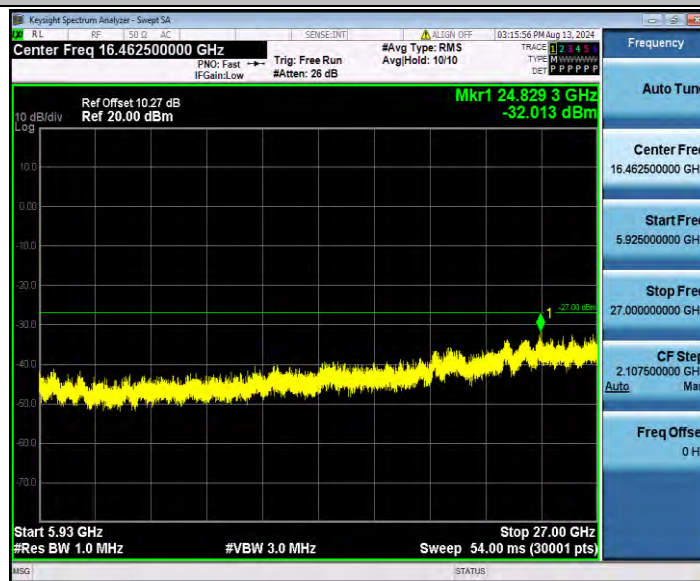
11A_Ant1_5785_5925~27000



11A_Ant1_5825_30~5650



11A_Ant1_5825_5925~27000



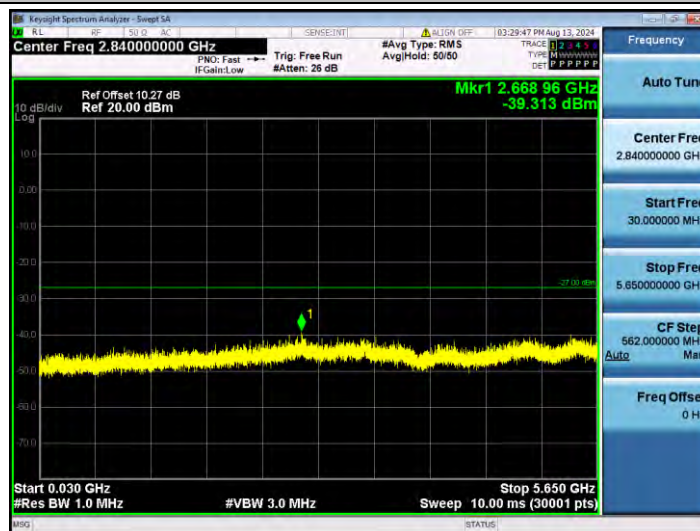
11N20SISO_Ant1_5745_30~5650



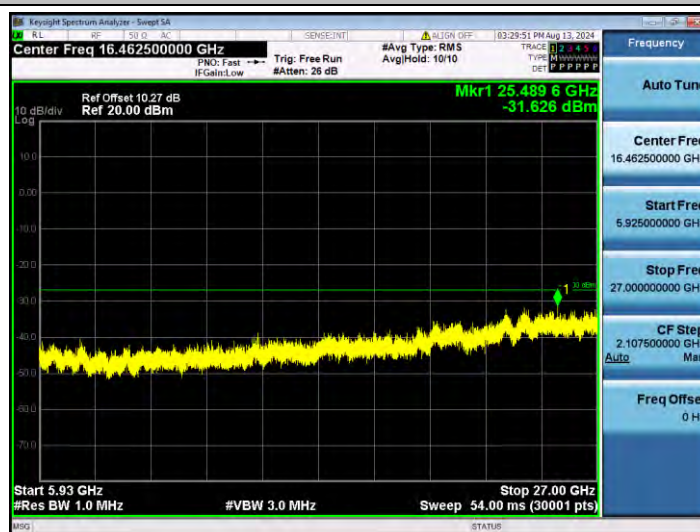
11N20SISO_Ant1_5745_5925~27000



11N20SISO_Ant1_5785_30~5650



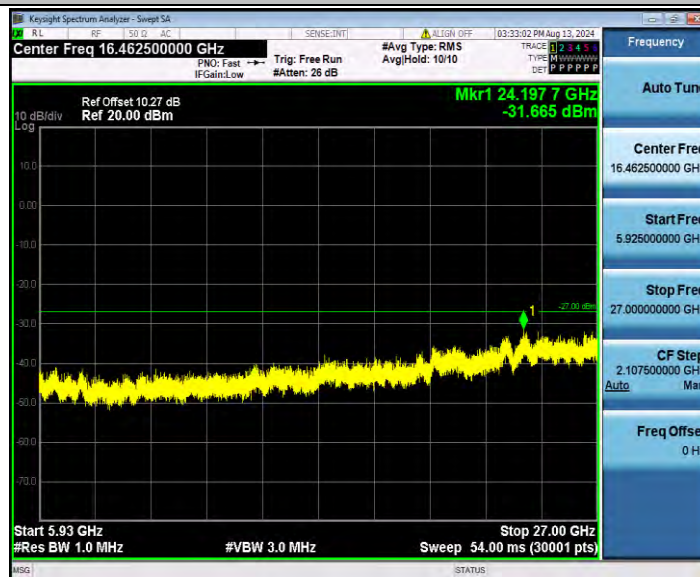
11N20SISO_Ant1_5785_5925~27000



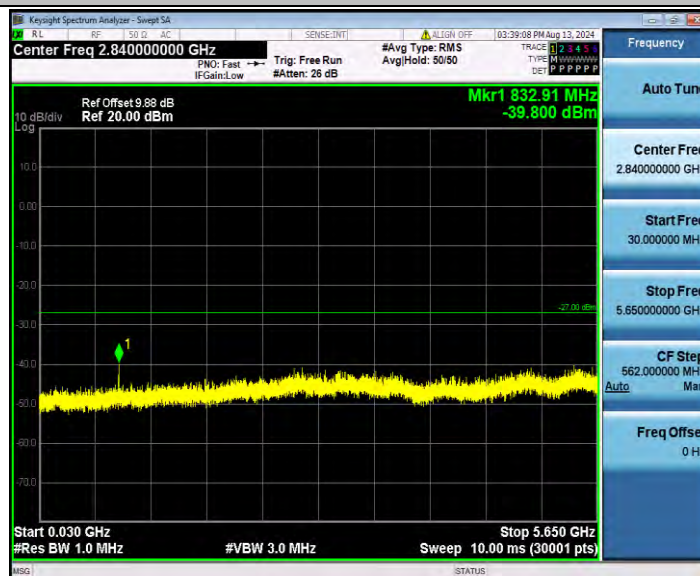
11N20SISO_Ant1_5825_30~5650



11N20SISO_Ant1_5825_5925~27000



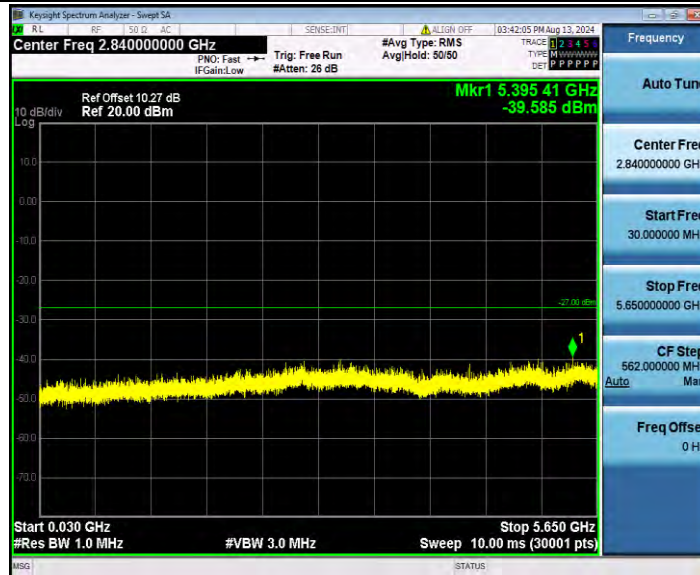
11N40SISO_Ant1_5755_30~5650



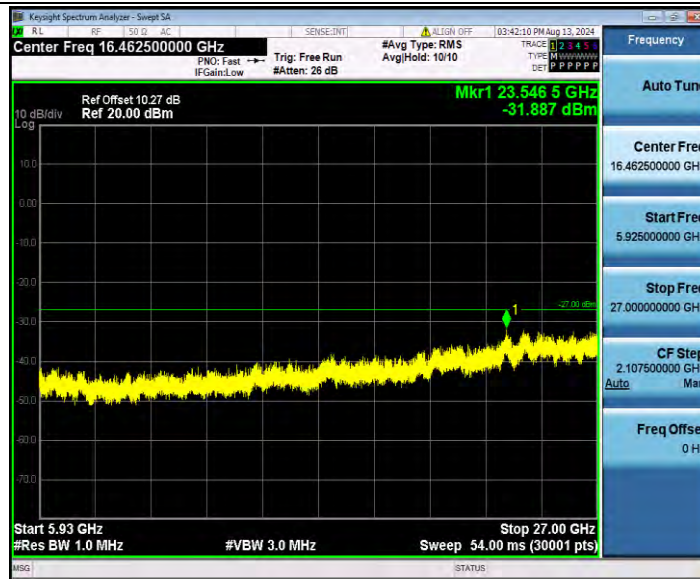
11N40SISO_Ant1_5755_5925~27000



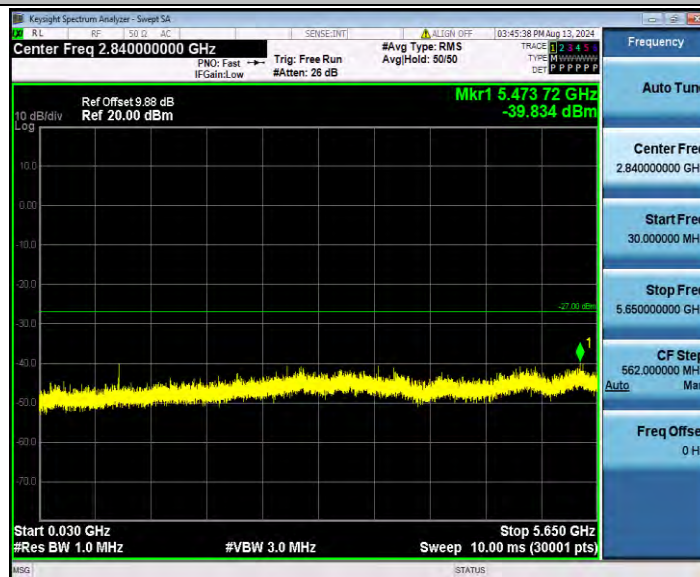
11N40SISO_Ant1_5795_30~5650



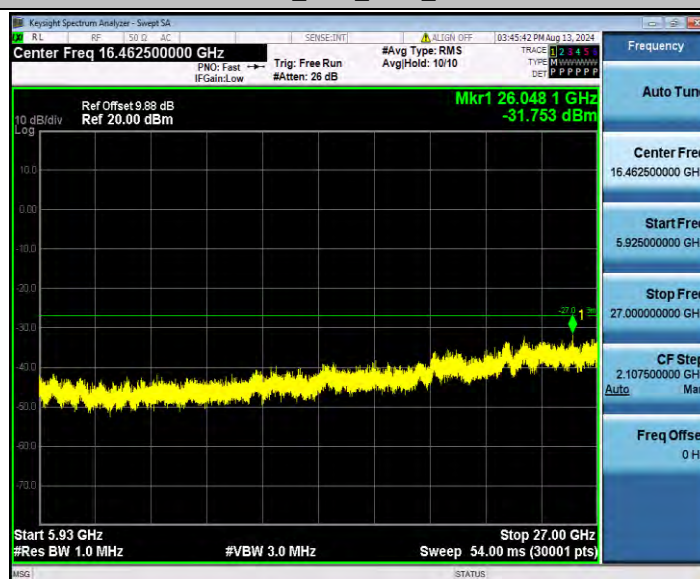
11N40SISO_Ant1_5795_5925~27000



11AC20SISO_Ant1_5745_30~5650



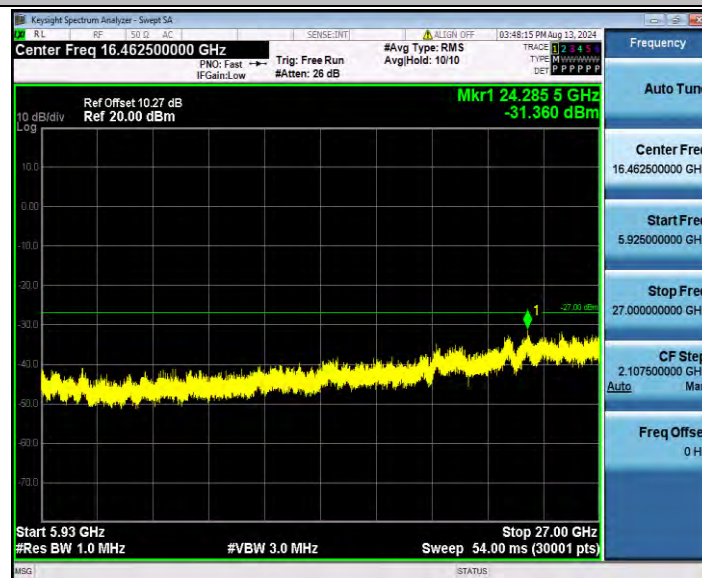
11AC20SISO_Ant1_5745_5925~27000



11AC20SISO_Ant1_5785_30~5650



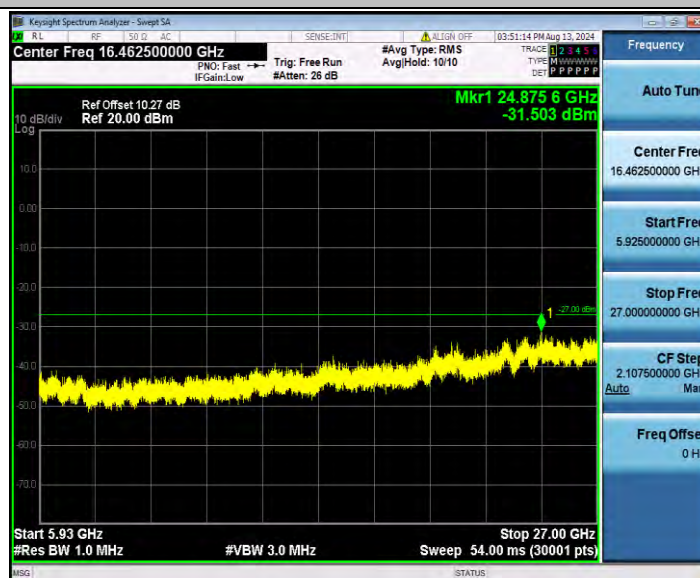
11AC20SISO_Ant1_5785_5925~27000



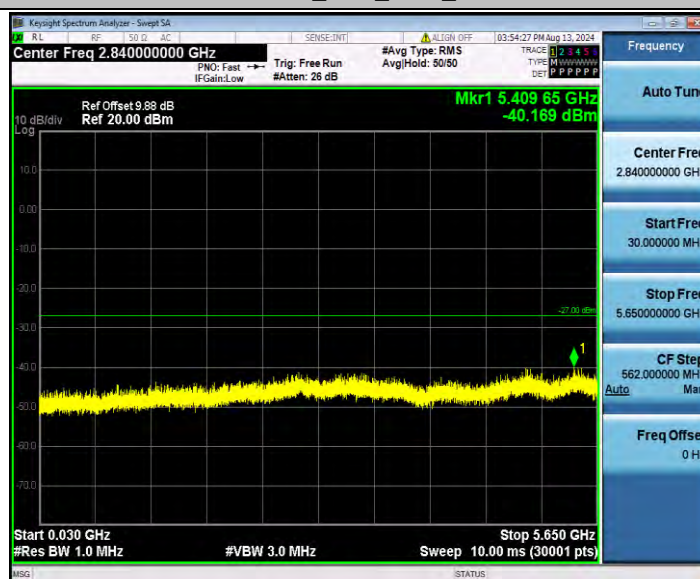
11AC20SISO_Ant1_5825_30~5650



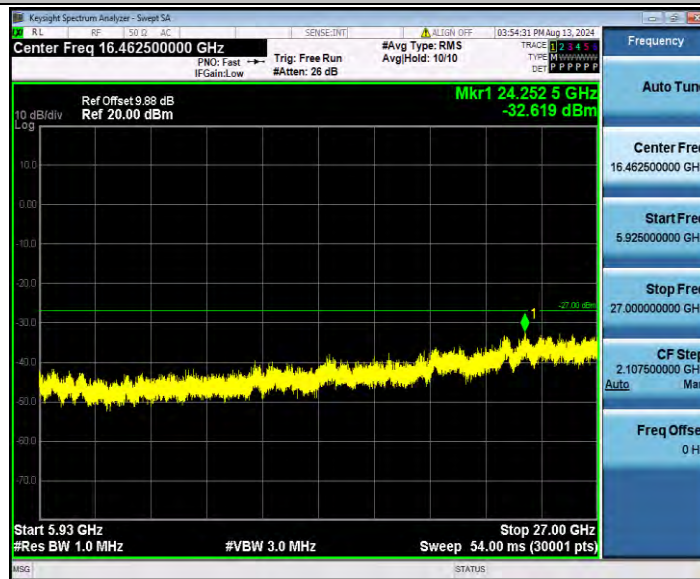
11AC20SISO_Ant1_5825_5925~27000



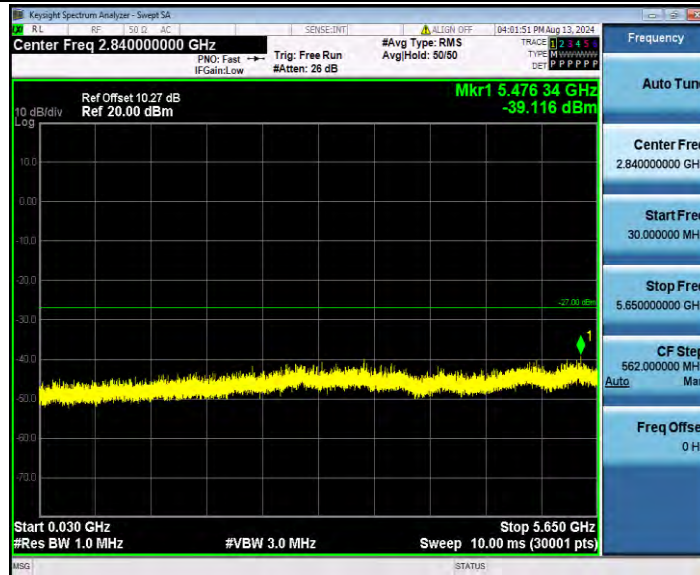
11AC40SISO_Ant1_5755_30~5650



11AC40SISO_Ant1_5755_5925~27000



11AC40SISO_Ant1_5795_30~5650



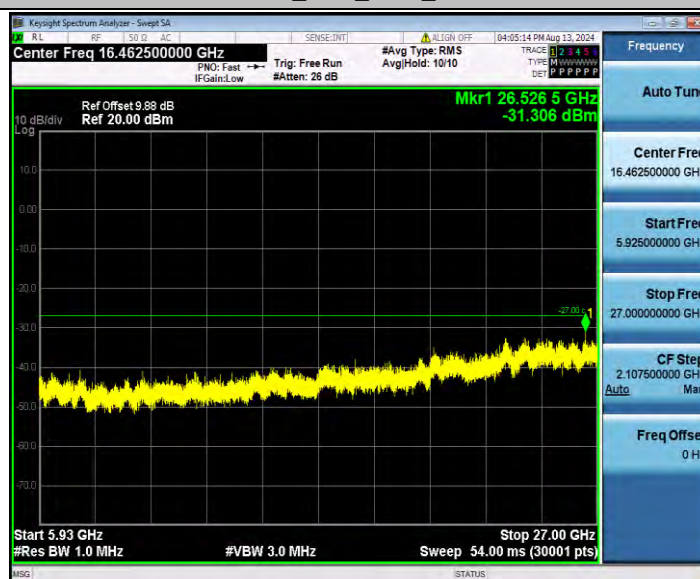
11AC40SISO_Ant1_5795_5925~27000



11AC80SISO_Ant1_5775_30~5650



11AC80SISO_Ant1_5775_5925~27000



Appendix E.8: Emissions in Restricted Bands

Test Result

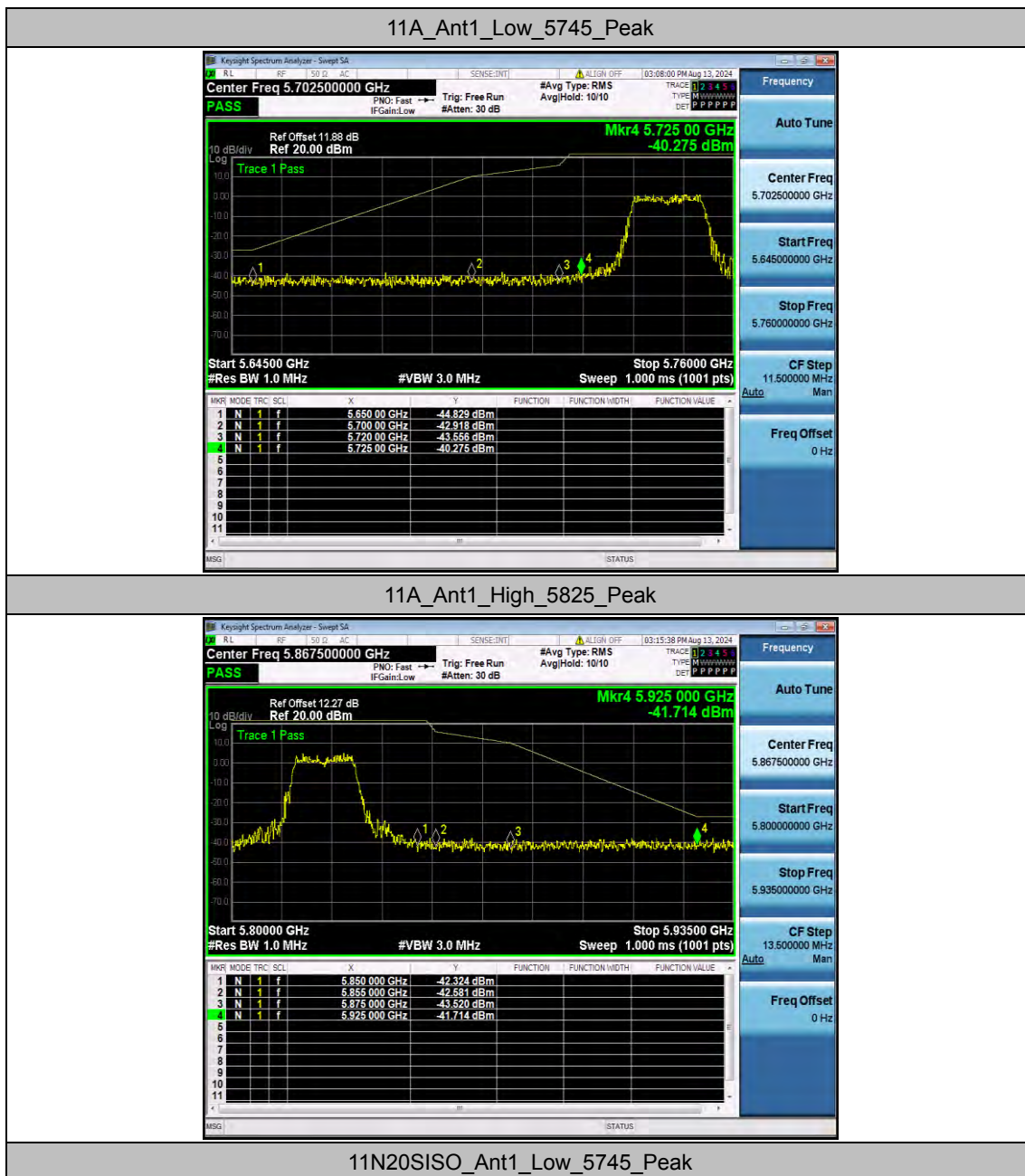
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	Peak	5650.000	-44.829	≤-27.00	PASS
				Peak	5700.000	-42.92	≤10.00	PASS
				Peak	5720.000	-43.56	≤15.60	PASS
				Peak	5725.000	-40.28	≤27.00	PASS
		High	5825	Peak	5850.000	-42.324	≤27.00	PASS
				Peak	5855.000	-42.58	≤15.60	PASS
				Peak	5875.000	-43.52	≤10.00	PASS
				Peak	5925.000	-41.71	≤-27.00	PASS
11N20SISO	Ant1	Low	5745	Peak	5650.000	-40.3	≤-27.00	PASS
				Peak	5700.000	-40.72	≤10.00	PASS
				Peak	5720.000	-40.2	≤15.60	PASS
				Peak	5725.000	-39.16	≤27.00	PASS
		High	5825	Peak	5850.000	-40.93	≤27.00	PASS
				Peak	5855.000	-40.07	≤15.60	PASS
				Peak	5875.000	-41.35	≤10.00	PASS
				Peak	5925.000	-41.02	≤-27.00	PASS
11N40SISO	Ant1	Low	5755	Peak	5650.000	-40.074	≤-27.00	PASS
				Peak	5700.000	-41.14	≤10.00	PASS
				Peak	5720.000	-35.34	≤15.60	PASS
				Peak	5725.000	-37.54	≤27.00	PASS
		High	5795	Peak	5850.000	-41.677	≤27.00	PASS
				Peak	5855.000	-37.62	≤15.60	PASS
				Peak	5875.000	-42.3	≤10.00	PASS
				Peak	5925.000	-40.65	≤-27.00	PASS
11AC20SISO	Ant1	Low	5745	Peak	5650.000	-40.8	≤-27.00	PASS
				Peak	5700.000	-40.1	≤10.00	PASS
				Peak	5720.000	-38.58	≤15.60	PASS
				Peak	5725.000	-40.38	≤27.00	PASS
		High	5825	Peak	5850.000	-39.758	≤27.00	PASS
				Peak	5855.000	-39.01	≤15.60	PASS
				Peak	5875.000	-41.44	≤10.00	PASS

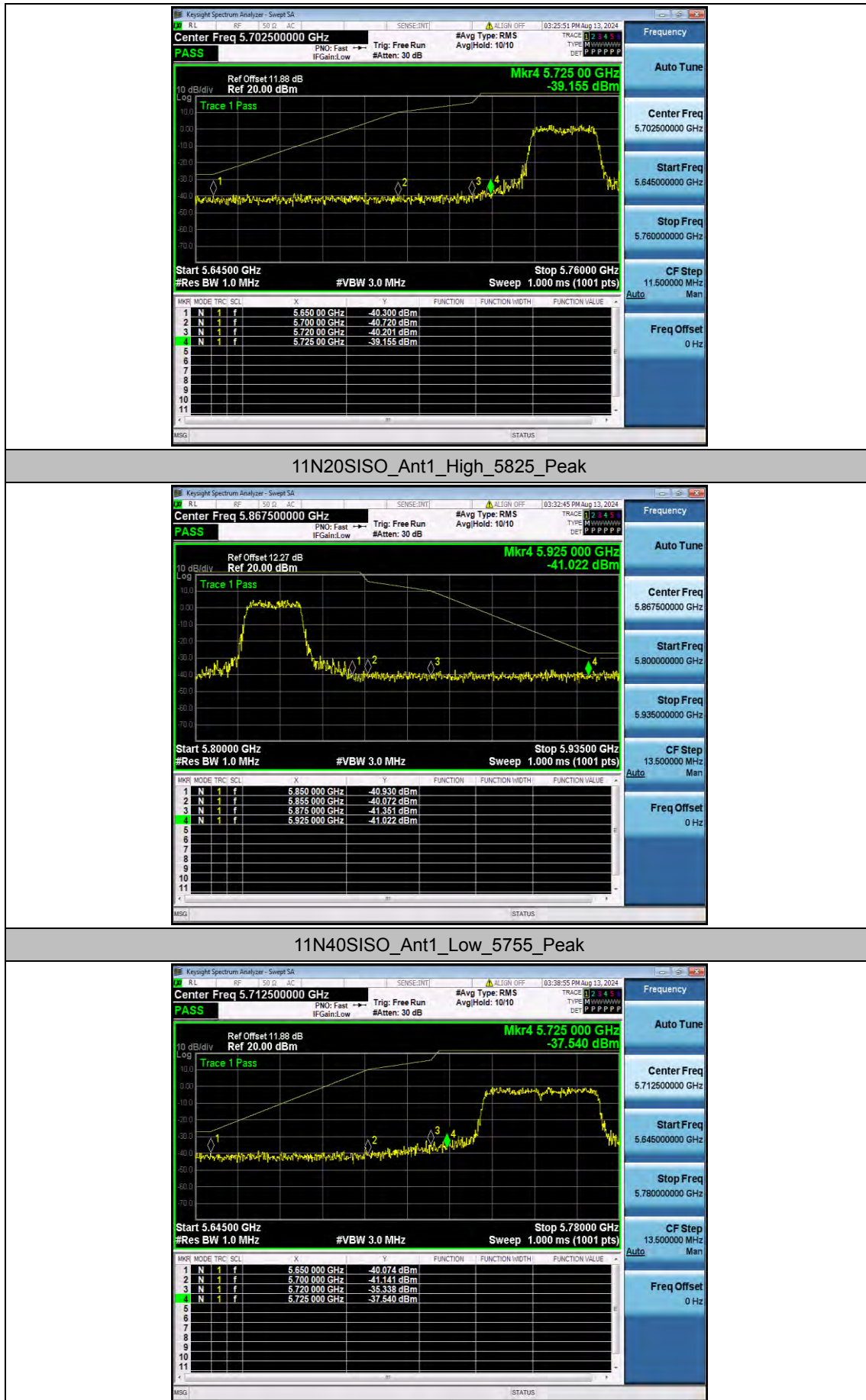
				Peak	5925.000	-42.31	≤-27.00	PASS
11AC40SI SO	Ant1	Low	5755	Peak	5650.000	-40.46 9	≤-27.00	PASS
				Peak	5700.000	-40.17	≤10.00	PASS
				Peak	5720.000	-36.86	≤15.60	PASS
				Peak	5725.000	-33.35	≤27.00	PASS
		High	5795	Peak	5850.000	-41.37	≤27.00	PASS
				Peak	5855.000	-42.94	≤15.60	PASS
				Peak	5875.000	-42.35	≤10.00	PASS
				Peak	5925.000	-41.58	≤-27.00	PASS
11AC80SI SO	Ant1	Low	5775	Peak	5650.000	-42	≤-27.00	PASS
				Peak	5700.000	-37.07	≤10.00	PASS
				Peak	5720.000	-37.16	≤15.60	PASS
				Peak	5725.000	-39.23	≤27.00	PASS
		High	5775	Peak	5850.000	-40.53 2	≤27.00	PASS
				Peak	5855.000	-38.05	≤15.60	PASS
				Peak	5875.000	-39.06	≤10.00	PASS
				Peak	5925.000	-43.63	≤-27.00	PASS

Note:

1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

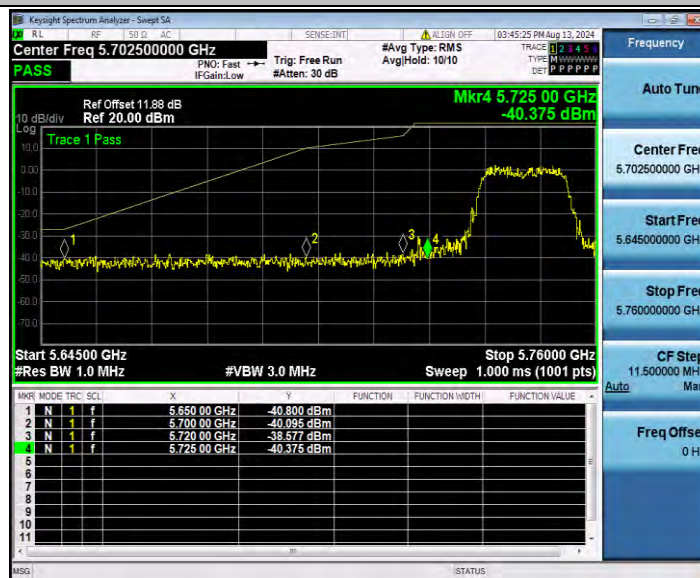




11N40SISO_Ant1_High_5795_Peak



11AC20SISO_Ant1_Low_5745_Peak



11AC20SISO_Ant1_High_5825_Peak



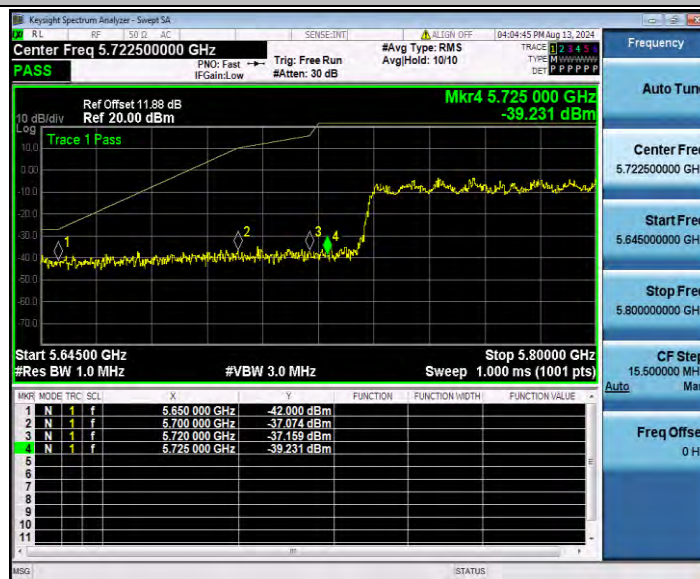
11AC40SISO_Ant1_Low_5755_Peak



11AC40SISO_Ant1_High_5795_Peak



11AC80SISO_Ant1_Low_5775_Peak



11AC80SISO_Ant1_High_5775_Peak

