

Case No. : <u>CTA24081600304</u>	
Ambient Condition: <u>23</u> °C, <u>51</u> %RH	
According Standard: ■Part15E	
Test Date: <u>2024.8.20</u>	Test Engineer: <u>Lushan Kong</u>

Appendix E.3: Min emission bandwidth

Test Result B4

TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.040	5737.440	5752.480	0.5	PASS
		5785	15.080	5777.440	5792.520	0.5	PASS
		5825	15.080	5817.440	5832.520	0.5	PASS
11N20SISO	Ant1	5745	15.080	5737.440	5752.520	0.5	PASS
		5785	15.120	5777.400	5792.520	0.5	PASS
		5825	15.120	5817.400	5832.520	0.5	PASS
11N40SISO	Ant1	5755	35.120	5737.400	5772.520	0.5	PASS
		5795	35.040	5777.480	5812.520	0.5	PASS
11AC20SISO	Ant1	5745	15.120	5737.400	5752.520	0.5	PASS
		5785	15.120	5777.400	5792.520	0.5	PASS
		5825	15.120	5817.400	5832.520	0.5	PASS
11AC40SISO	Ant1	5755	35.120	5737.400	5772.520	0.5	PASS
		5795	35.120	5777.400	5812.520	0.5	PASS
11AC80SISO	Ant1	5775	75.040	5737.400	5812.440	0.5	PASS

Test Graphs B4

11A_Ant1_5745



11A_Ant1_5785

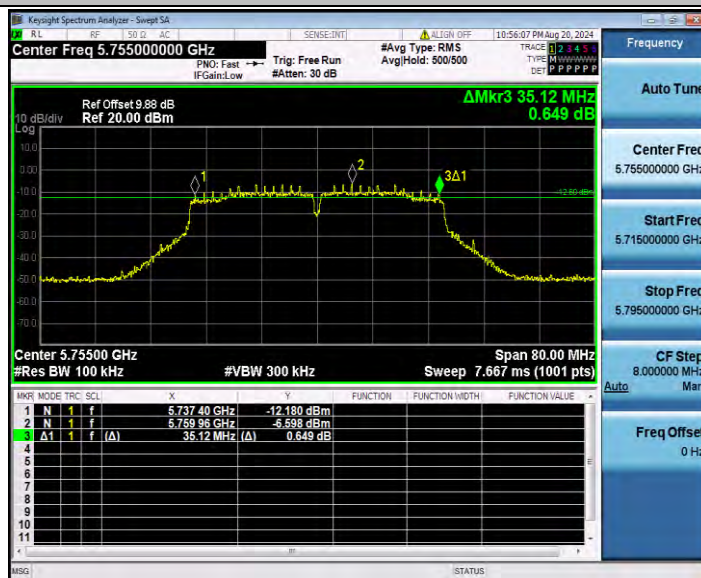


11A_Ant1_5825

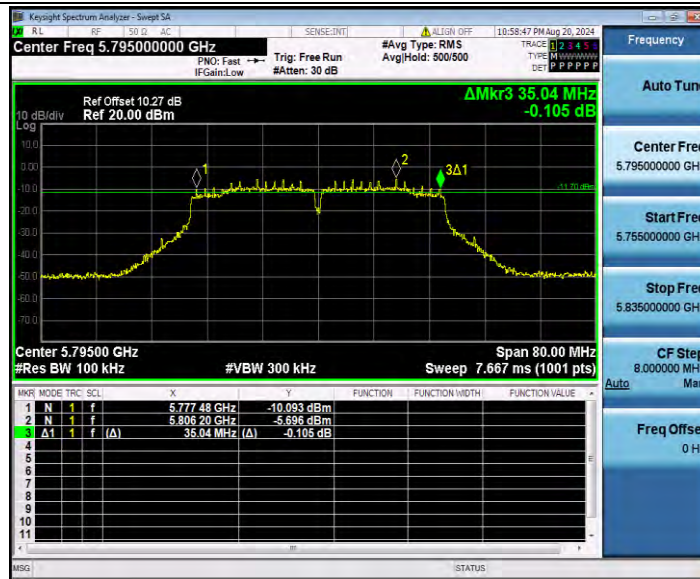
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



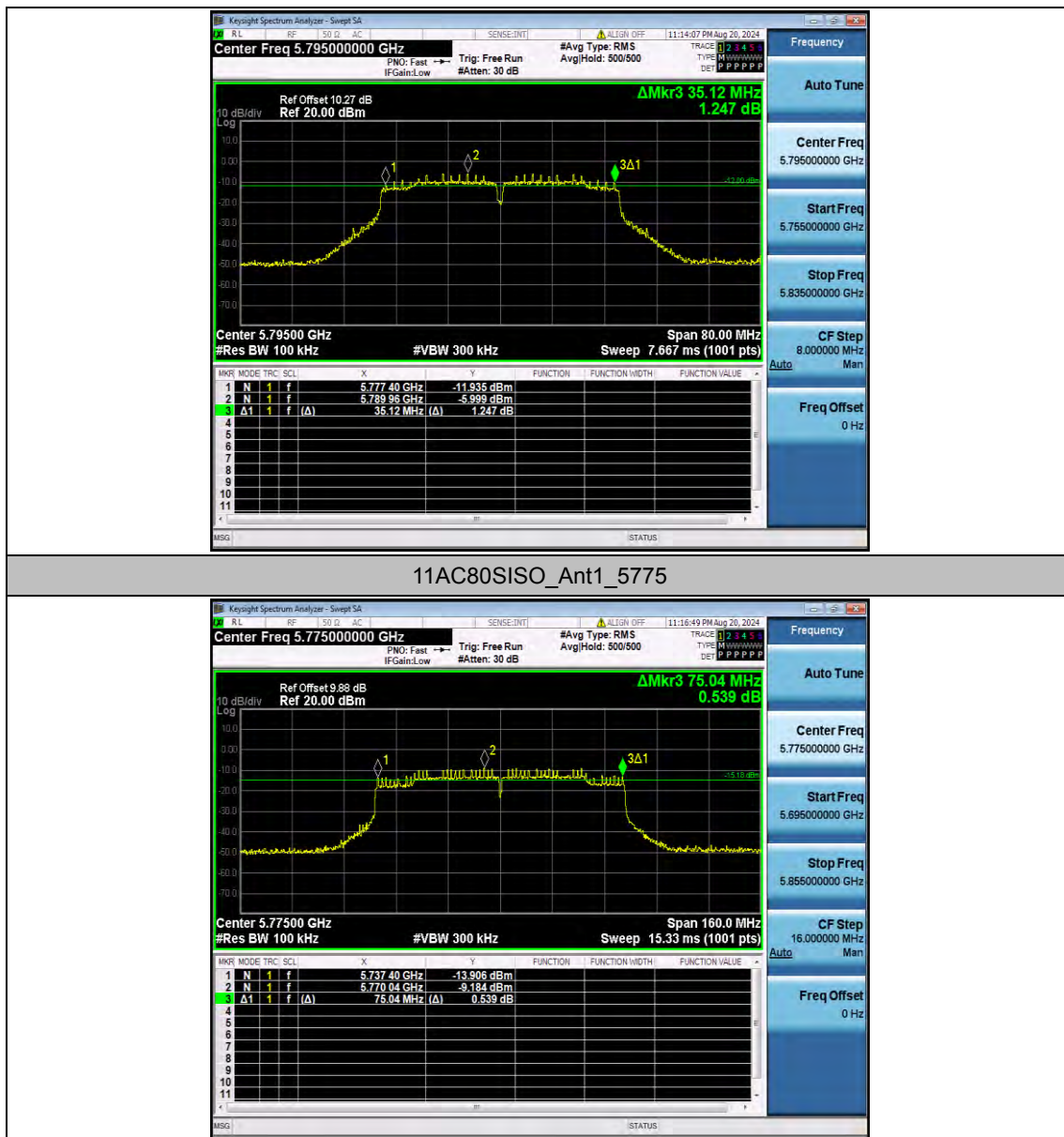
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



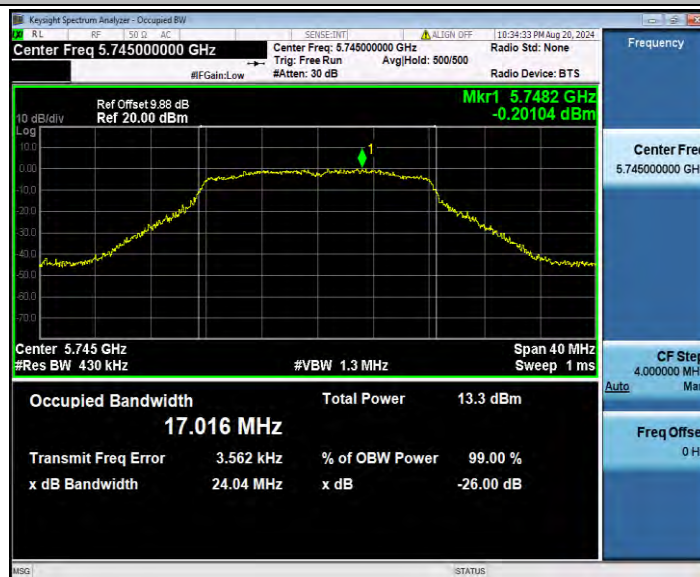
Appendix E.2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	17.016	5736.4956	5753.5116	---	---
		5785	17.022	5776.4859	5793.5079	---	---
		5825	16.946	5816.5249	5833.4709	---	---
11N20SISO	Ant1	5745	18.029	5735.9838	5754.0128	---	---
		5785	17.959	5776.0343	5793.9933	---	---
		5825	17.993	5815.9796	5833.9726	---	---
11N40SISO	Ant1	5755	36.260	5736.8961	5773.1561	---	---
		5795	36.209	5776.9005	5813.1095	---	---
11AC20SISO	Ant1	5745	18.049	5735.9939	5754.0429	---	---
		5785	18.017	5775.9986	5794.0156	---	---
		5825	17.953	5816.0001	5833.9531	---	---
11AC40SISO	Ant1	5755	36.268	5736.9124	5773.1804	---	---
		5795	36.276	5776.8762	5813.1522	---	---
11AC80SISO	Ant1	5775	75.186	5737.5302	5812.7162	---	---

Test Graphs

11A_Ant1_5745



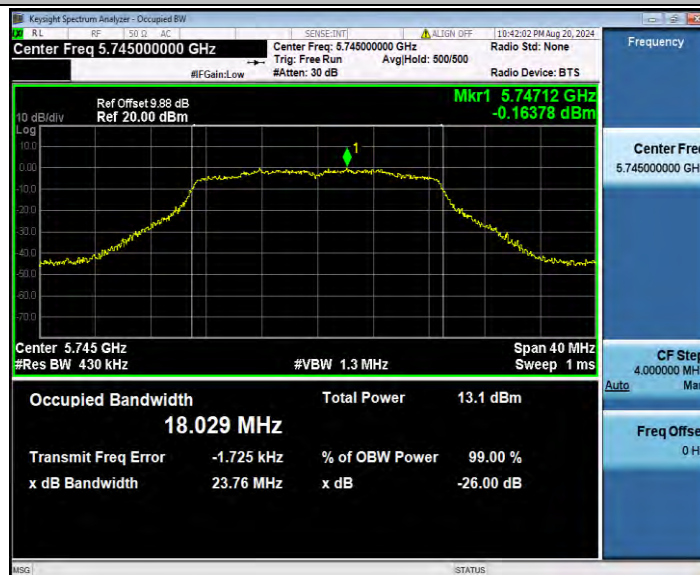
11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5745



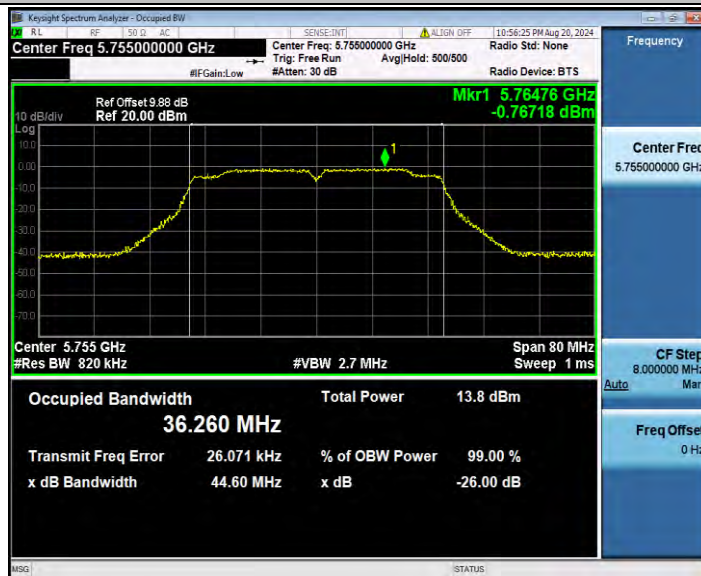
11N20SISO_Ant1_5785



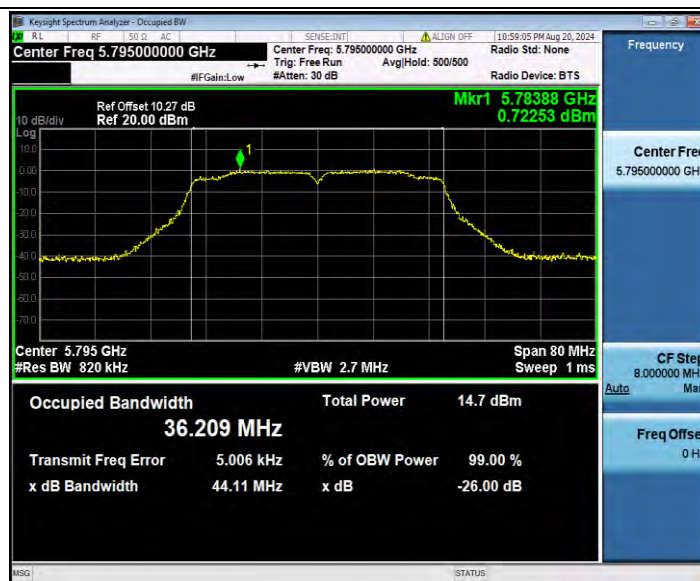
11N20SISO_Ant1_5825



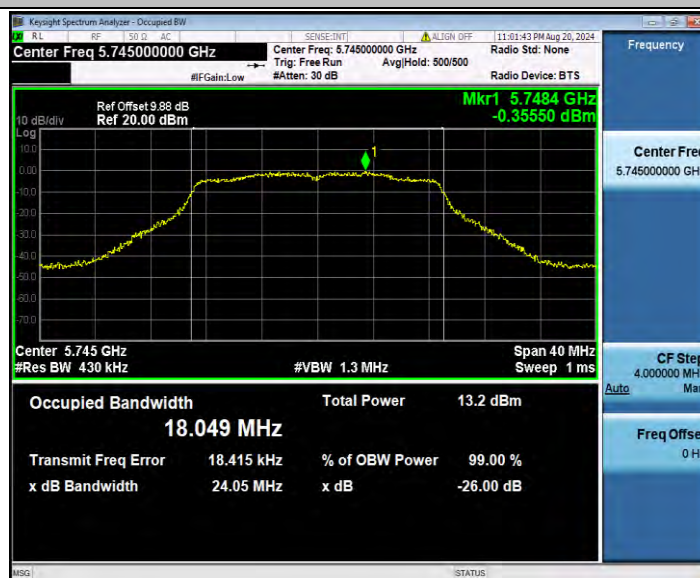
11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



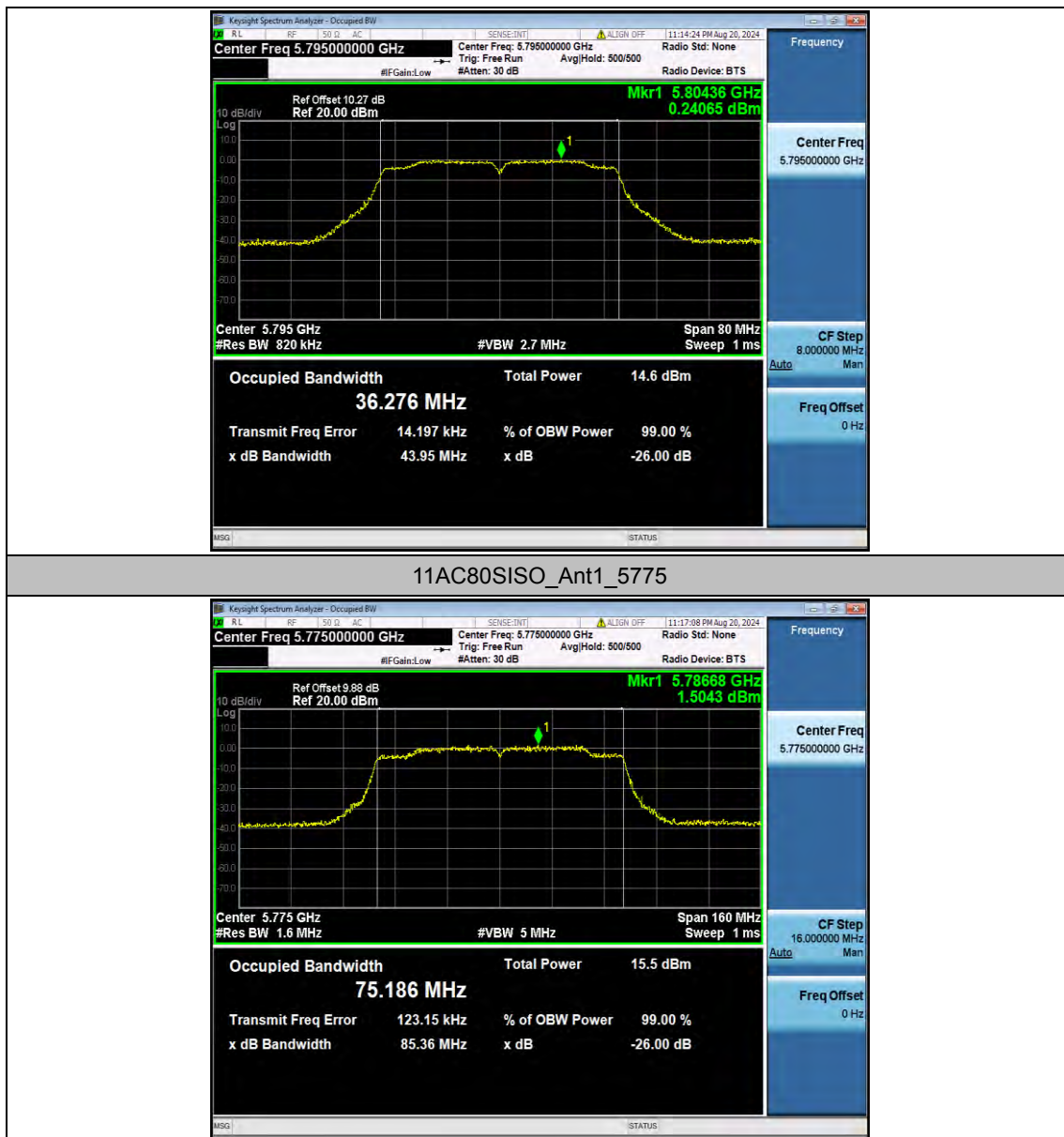
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



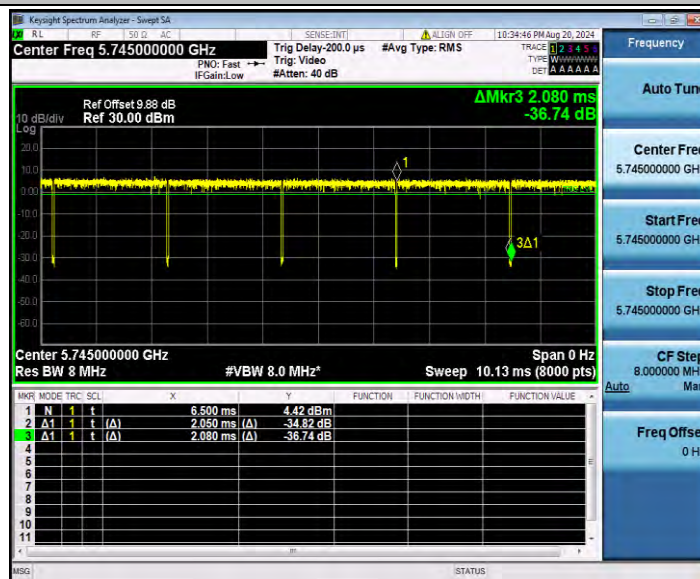
Appendix E.3: Duty Cycle

Test Result

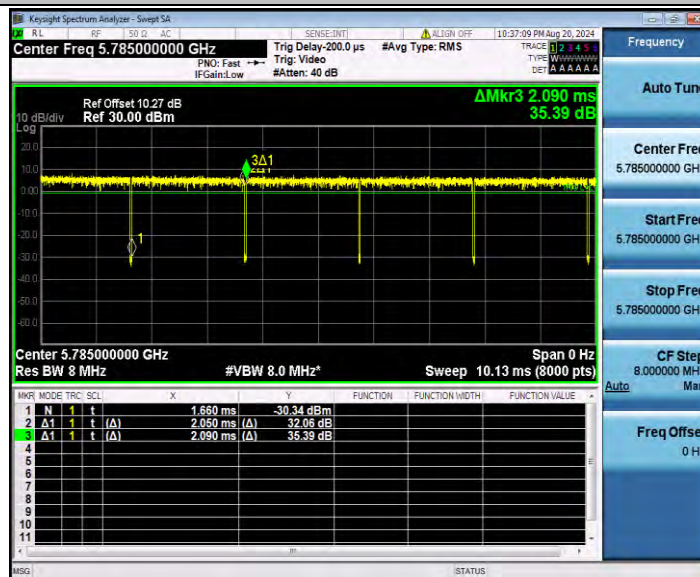
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5745	2.05	2.08	98.56	0.06	0.49
		5785	2.05	2.09	98.09	0.08	0.49
		5825	2.05	2.08	98.56	0.06	0.49
11N20SISO	Ant1	5745	1.91	1.95	97.95	0.09	0.52
		5785	1.91	1.95	97.95	0.09	0.52
		5825	1.90	1.94	97.94	0.09	0.53
11N40SISO	Ant1	5755	0.93	0.97	95.88	0.18	1.08
		5795	0.93	0.97	95.88	0.18	1.08
11AC20SISO	Ant1	5745	1.91	1.96	97.45	0.11	0.52
		5785	1.91	1.96	97.45	0.11	0.52
		5825	1.92	1.97	97.46	0.11	0.52
11AC40SISO	Ant1	5755	0.94	0.98	95.92	0.18	1.06
		5795	0.94	0.98	95.92	0.18	1.06
11AC80SISO	Ant1	5775	0.46	0.49	93.88	0.27	2.17

Test Graphs

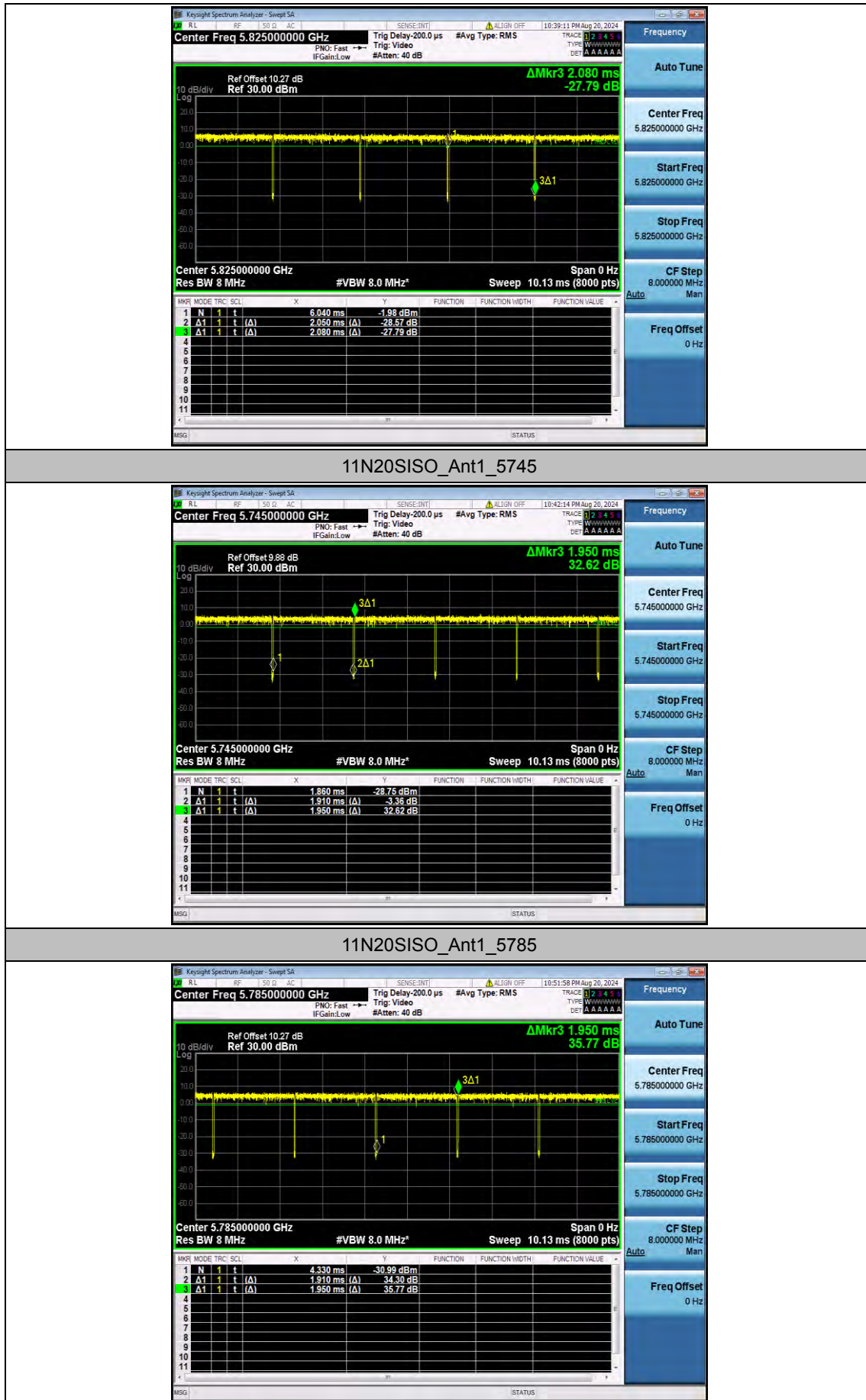
11A_Ant1_5745



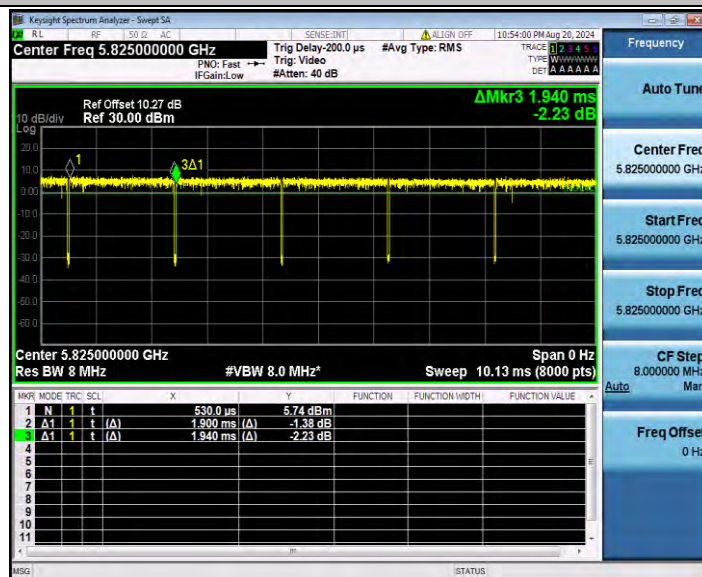
11A_Ant1_5785



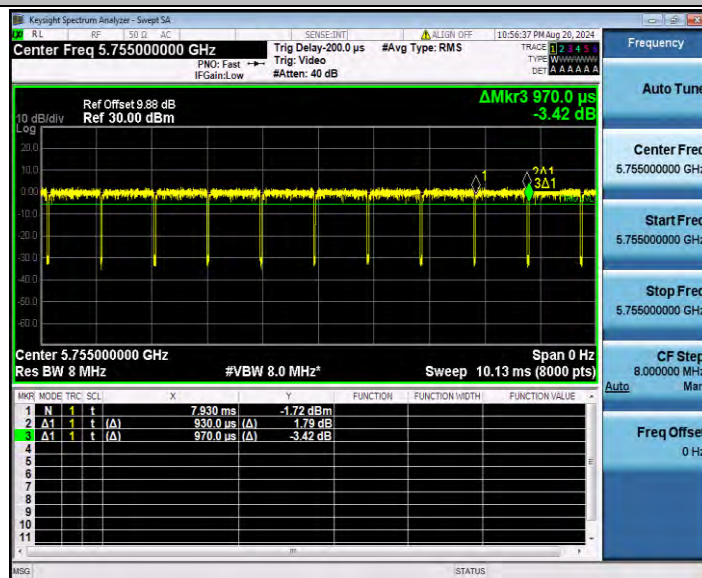
11A_Ant1_5825



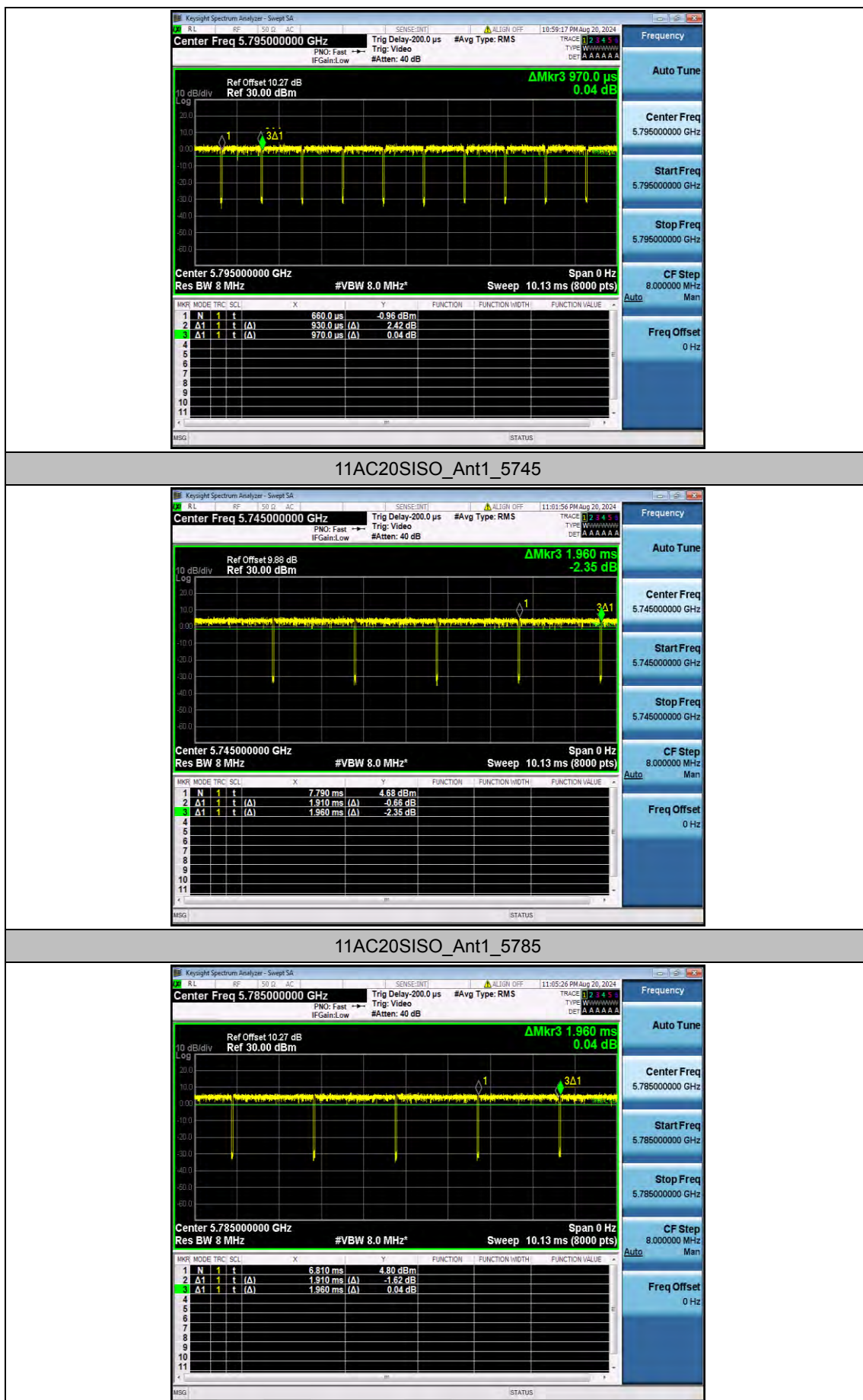
11N20SISO_Ant1_5825



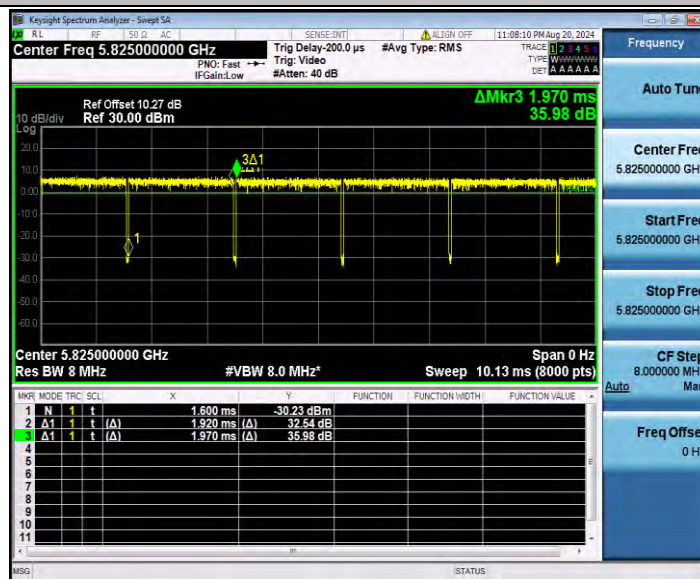
11N40SISO_Ant1_5755



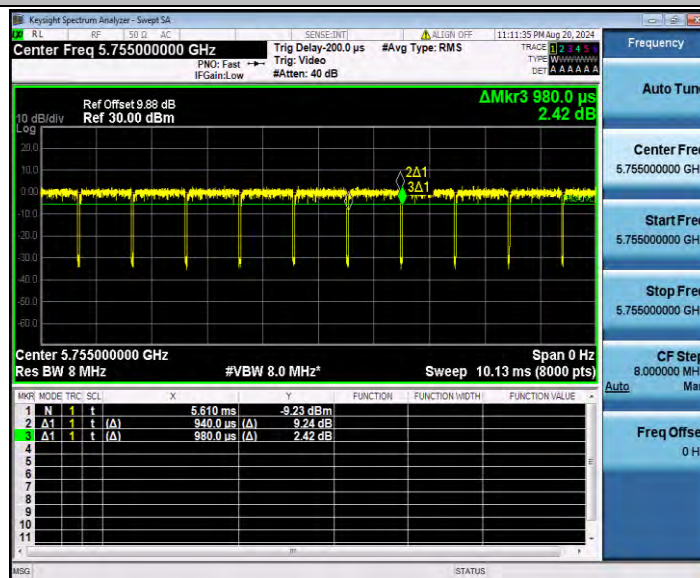
11N40SISO_Ant1_5795



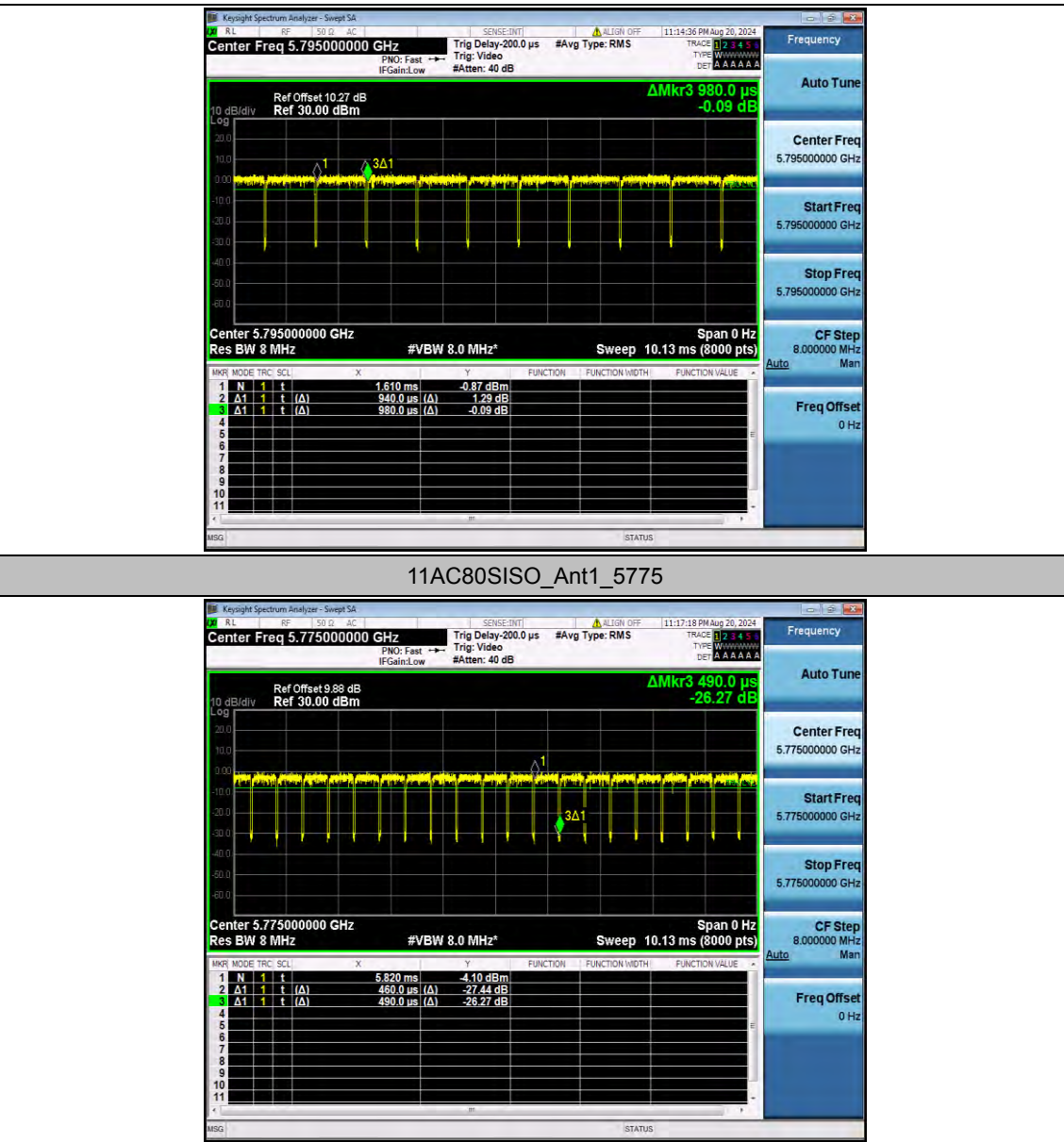
11AC20SISO_Ant1_5825



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	10.37	98.56	0.06	10.43	≤30.00	PASS
		5785	11.09	98.09	0.08	11.17	≤30.00	PASS
		5825	11.29	98.56	0.06	11.35	≤30.00	PASS
11N20SISO	Ant1	5745	10.15	97.95	0.09	10.24	≤30.00	PASS
		5785	10.75	97.95	0.09	10.84	≤30.00	PASS
		5825	11.28	97.94	0.09	11.37	≤30.00	PASS
11N40SISO	Ant1	5755	10.02	95.88	0.18	10.2	≤30.00	PASS
		5795	10.92	95.88	0.18	11.1	≤30.00	PASS
11AC20SISO	Ant1	5745	10.23	97.45	0.11	10.34	≤30.00	PASS
		5785	10.85	97.45	0.11	10.96	≤30.00	PASS
		5825	11.07	97.46	0.11	11.18	≤30.00	PASS
11AC40SISO	Ant1	5755	10.07	95.92	0.18	10.25	≤30.00	PASS
		5795	10.71	95.92	0.18	10.89	≤30.00	PASS
11AC80SISO	Ant1	5775	10.34	93.88	0.27	10.61	≤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	-7.33	≤30.00	PASS
		5785	-6.74	≤30.00	PASS
		5825	-6.41	≤30.00	PASS
11N20SISO	Ant1	5745	-7.63	≤30.00	PASS
		5785	-6.91	≤30.00	PASS
		5825	-6.63	≤30.00	PASS
11N40SISO	Ant1	5755	-10.68	≤30.00	PASS
		5795	-9.90	≤30.00	PASS
11AC20SISO	Ant1	5745	-7.59	≤30.00	PASS
		5785	-6.88	≤30.00	PASS
		5825	-6.64	≤30.00	PASS
11AC40SISO	Ant1	5755	-10.72	≤30.00	PASS
		5795	-9.98	≤30.00	PASS
11AC80SISO	Ant1	5775	-13.30	≤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



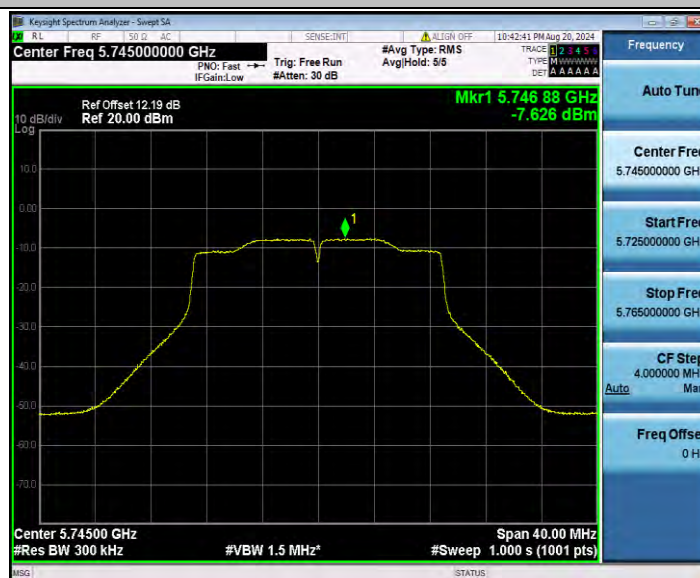
11A_Ant1_5785



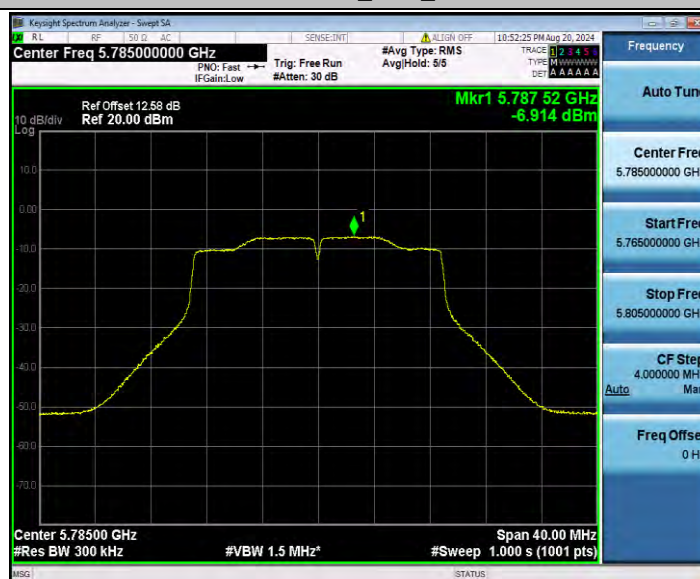
11A_Ant1_5825



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



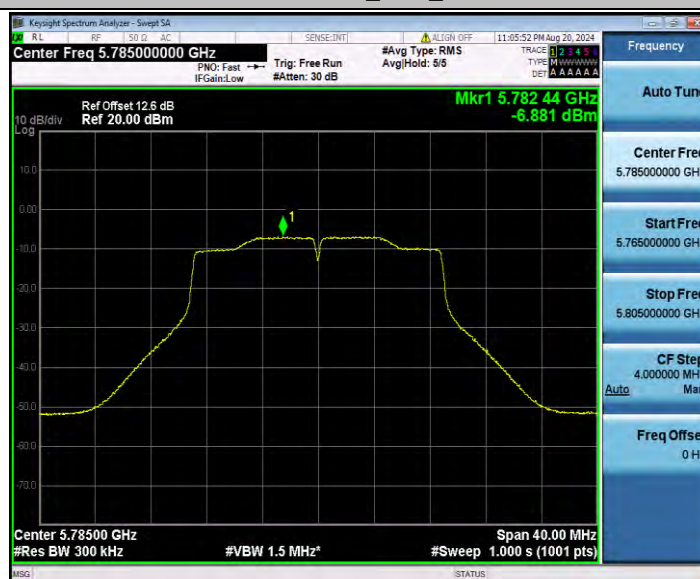
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



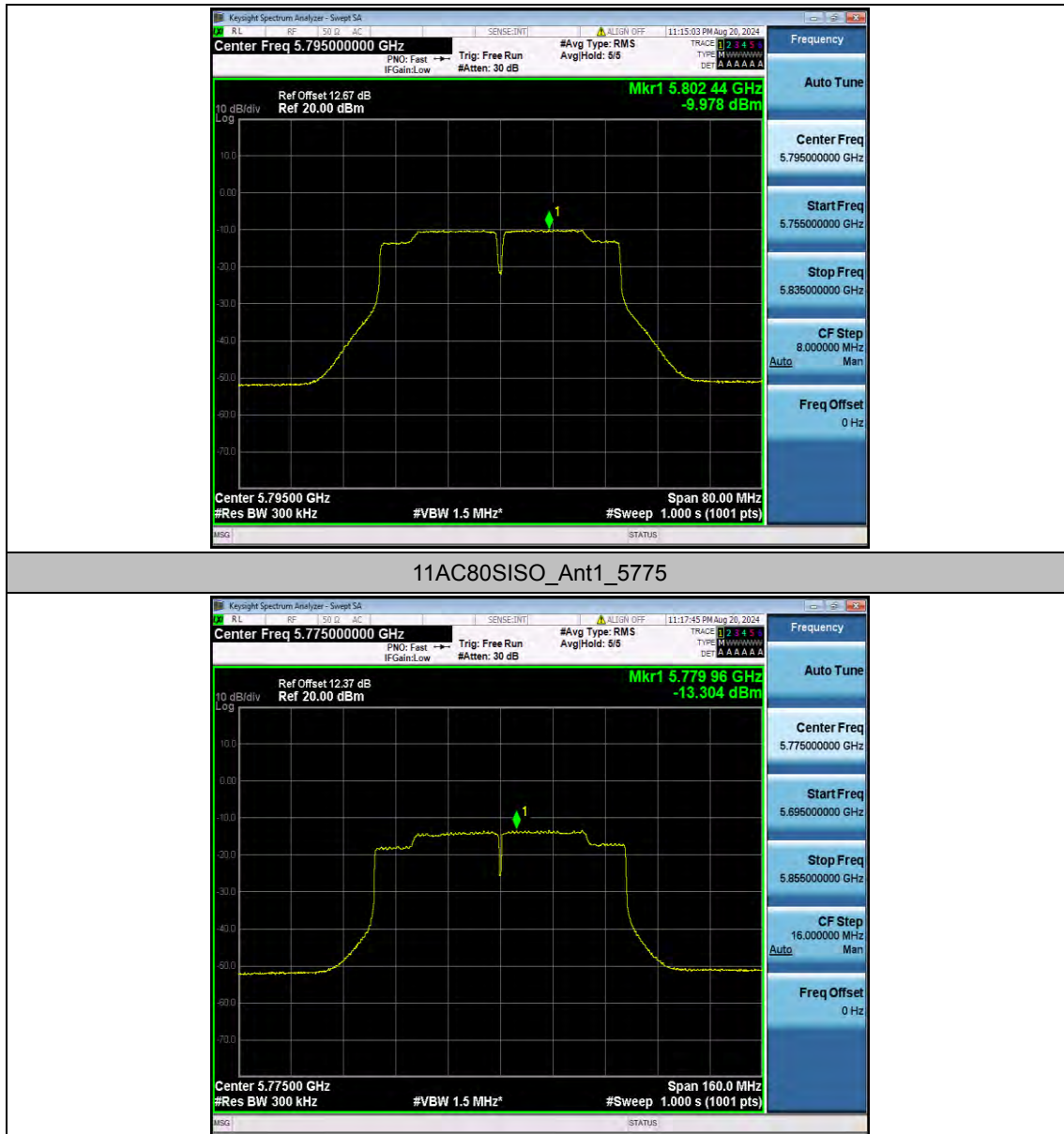
11AC20SISO_Ant1_5825



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	-40.58	≤-26.87	PASS
				5700~5720	-38.42	≤10.25	PASS
				5720~5725	-40.99	≤15.82	PASS
				5760~5650	-39.15	≤-27	PASS
		High	5825	5850~5855	-38.9	≤16.96	PASS
				5855~5875	-38.77	≤10.25	PASS
				5875~5925	-38.6	≤-26.81	PASS
				5925~5935	-38.72	≤-27	PASS
11N20SI SO	Ant1	Low	5745	5650~5700	-40.7	≤-26.19	PASS
				5700~5720	-40.01	≤10.38	PASS
				5720~5725	-40.36	≤15.82	PASS
				5760~5650	-39.82	≤-27	PASS
		High	5825	5850~5855	-39.5	≤16.03	PASS
				5855~5875	-38.98	≤10.06	PASS
				5875~5925	-39.09	≤-26.81	PASS
				5925~5935	-37.89	≤-27	PASS
11N40SI SO	Ant1	Low	5755	5650~5700	-40.23	≤-26.80	PASS
				5700~5720	-38.85	≤10.10	PASS
				5720~5725	-39.12	≤16.35	PASS
				5780~5650	-39.87	≤-27	PASS
		High	5795	5850~5855	-40.28	≤15.66	PASS
				5855~5875	-38.62	≤10.39	PASS
				5875~5925	-38.73	≤-26.34	PASS
				5925~5935	-37.77	≤-27	PASS
11AC20S ISO	Ant1	Low	5745	5650~5700	-40.18	≤-26.27	PASS
				5700~5720	-39.89	≤10.18	PASS
				5720~5725	-40.75	≤15.82	PASS
				5760~5650	-39.41	≤-27	PASS
		High	5825	5850~5855	-37.94	≤16.03	PASS
				5855~5875	-38.29	≤10.40	PASS
				5875~5925	-38.9	≤-26.31	PASS
				5925~5935	-38.44	≤-27	PASS
11AC40S ISO	Ant1	Low	5755	5650~5700	-39.69	≤-25.90	PASS
				5700~5720	-39.14	≤10.67	PASS
				5720~5725	-41.19	≤15.74	PASS
				5780~5650	-39.83	≤-27	PASS

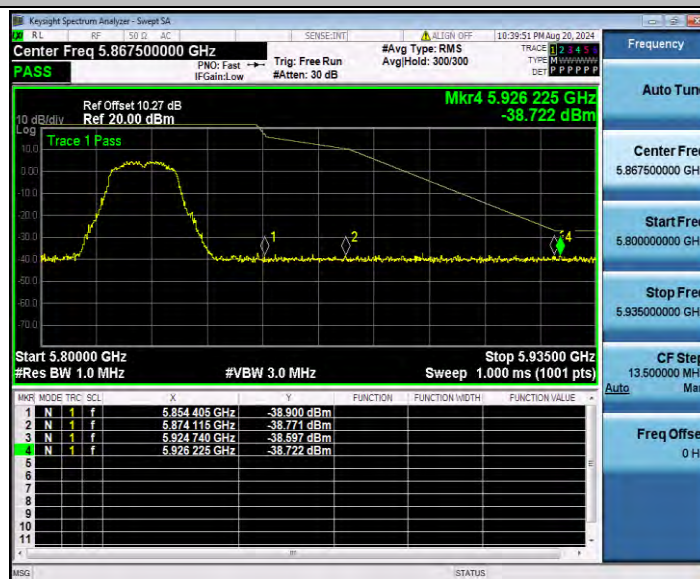
		High	5795	5850~5855	-38.98	≤ 15.66	PASS
				5855~5875	-39.16	≤ 10.66	PASS
				5875~5925	-38.47	≤ -26.83	PASS
				5925~5935	-38.47	≤ -27	PASS
11AC80S ISO	Ant1	Low	5775	5650~5700	-38.02	≤ -25.77	PASS
				5700~5720	-39.88	≤ 10.09	PASS
				5720~5725	-38.74	≤ 16.35	PASS
				5800~5650	-39.27	≤ -27	PASS
		High	5775	5850~5855	-37.09	≤ 17.10	PASS
				5855~5875	-37.93	≤ 10.14	PASS
				5875~5925	-39.69	≤ -26.87	PASS
				5925~5935	-38.78	≤ -27	PASS

Test Graphs B4

11A_Ant1_Low_5745



11A_Ant1_High_5825



11N20SISO_Ant1_Low_5745



11N20SISO_Ant1_High_5825



11N40SISO_Ant1_Low_5755



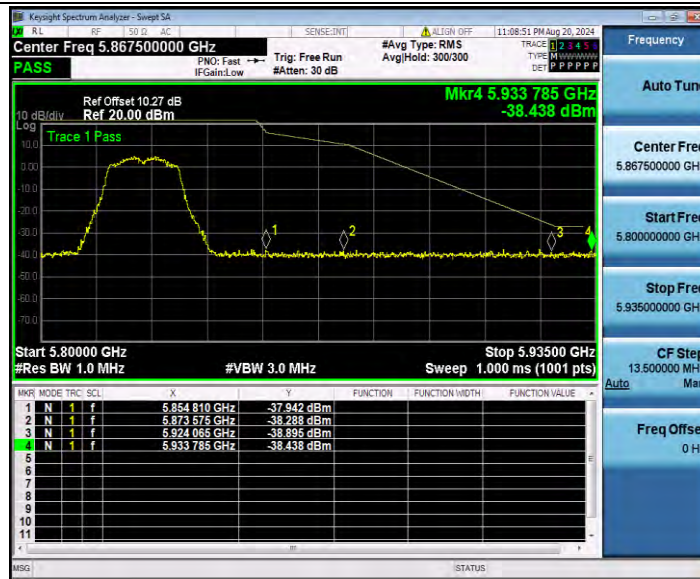
11N40SISO_Ant1_High_5795



11AC20SISO_Ant1_Low_5745



11AC20SISO_Ant1_High_5825



11AC40SISO_Ant1_Low_5755



11AC40SISO_Ant1_High_5795



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	5447.12	-39.36	≤-27	PASS
			5925~27000	26072	-32.22	≤-27	PASS
		5785	30~5650	3135.99	-39.83	≤-27	PASS
			5925~27000	23498.74	-30.9	≤-27	PASS
		5825	30~5650	2642.74	-38.91	≤-27	PASS
			5925~27000	25684.22	-32.36	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	5464.73	-40.55	≤-27	PASS
			5925~27000	26487.88	-31.88	≤-27	PASS
		5785	30~5650	2441.54	-39.66	≤-27	PASS
			5925~27000	24227.23	-31.27	≤-27	PASS
		5825	30~5650	4954.06	-39.88	≤-27	PASS
			5925~27000	26958.55	-31.15	≤-27	PASS
11N40SISO	Ant1	5755	30~5650	4940.01	-40.12	≤-27	PASS
			5925~27000	24187.89	-31.78	≤-27	PASS
		5795	30~5650	5292.38	-39.08	≤-27	PASS
			5925~27000	26057.95	-31.5	≤-27	PASS
11AC20SISO	Ant1	5745	30~5650	5648.69	-40.74	≤-27	PASS
			5925~27000	25961	-32.1	≤-27	PASS
		5785	30~5650	5436.25	-39.85	≤-27	PASS
			5925~27000	24205.46	-31.35	≤-27	PASS
		5825	30~5650	825.98	-39.63	≤-27	PASS
			5925~27000	25613.97	-31.08	≤-27	PASS
11AC40SISO	Ant1	5755	30~5650	5463.04	-40.4	≤-27	PASS
			5925~27000	26761.85	-31.19	≤-27	PASS
		5795	30~5650	2657.72	-40.16	≤-27	PASS
			5925~27000	26093.07	-31.65	≤-27	PASS
11AC80SISO	Ant1	5775	30~5650	5463.23	-39.87	≤-27	PASS
			5925~27000	25990.51	-31.81	≤-27	PASS

Test Graphs

11A_Ant1_5745_30~5650



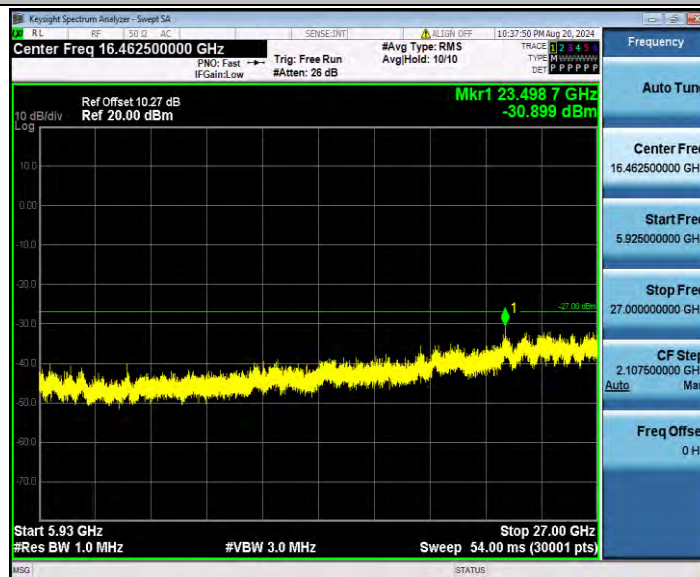
11A_Ant1_5745_5925~27000



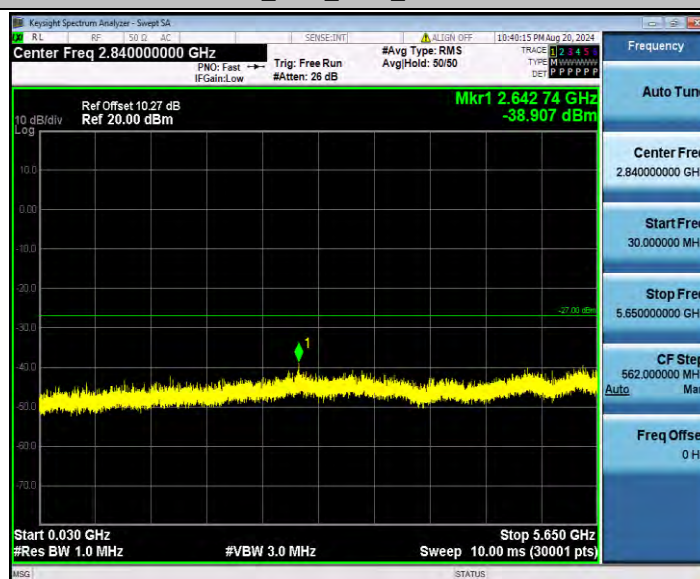
11A_Ant1_5785_30~5650



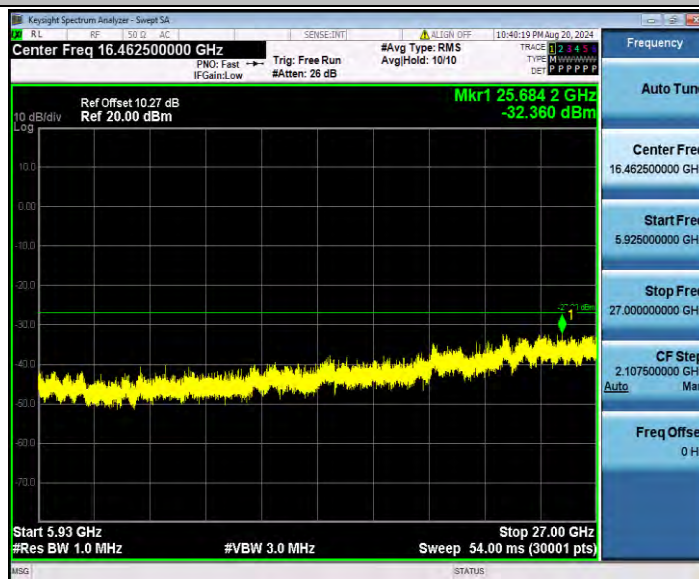
11A_Ant1_5785_5925~27000



11A_Ant1_5825_30~5650



11A_Ant1_5825_5925~27000



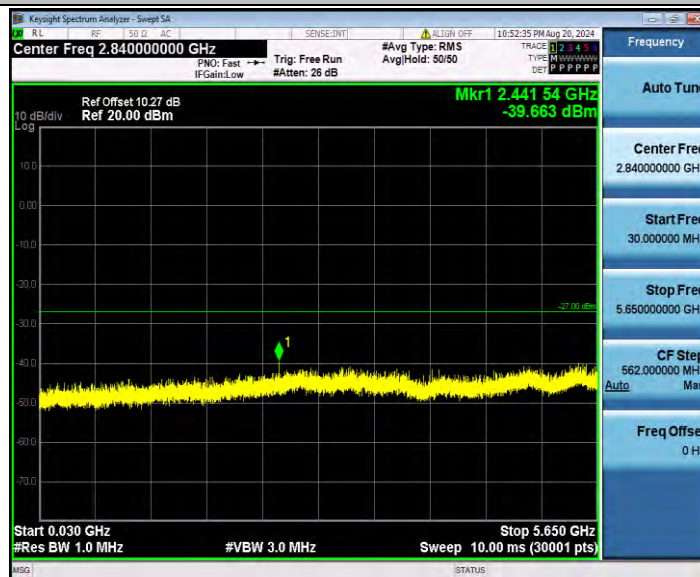
11N20SISO_Ant1_5745_30~5650



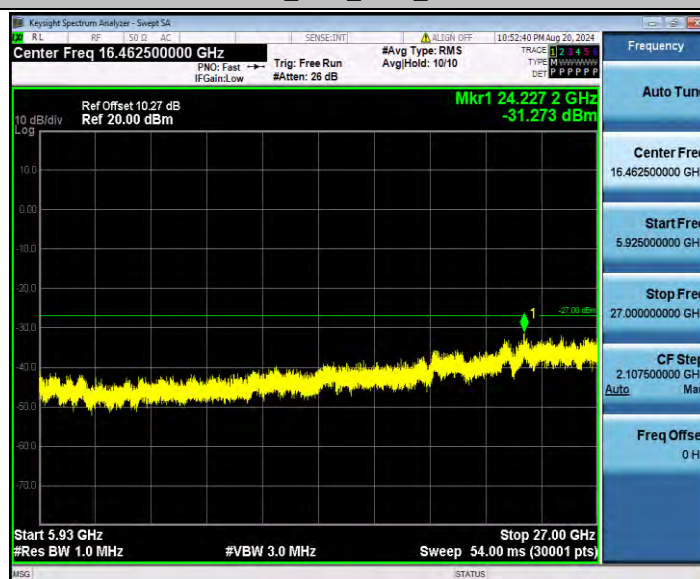
11N20SISO_Ant1_5745_5925~27000



11N20SISO_Ant1_5785_30~5650



11N20SISO_Ant1_5785_5925~27000



11N20SISO_Ant1_5825_30~5650



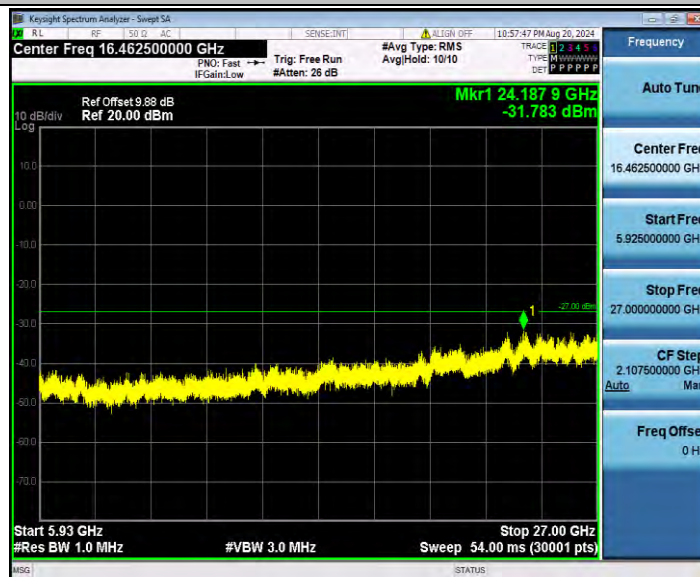
11N20SISO_Ant1_5825_5925~27000



11N40SISO_Ant1_5755_30~5650



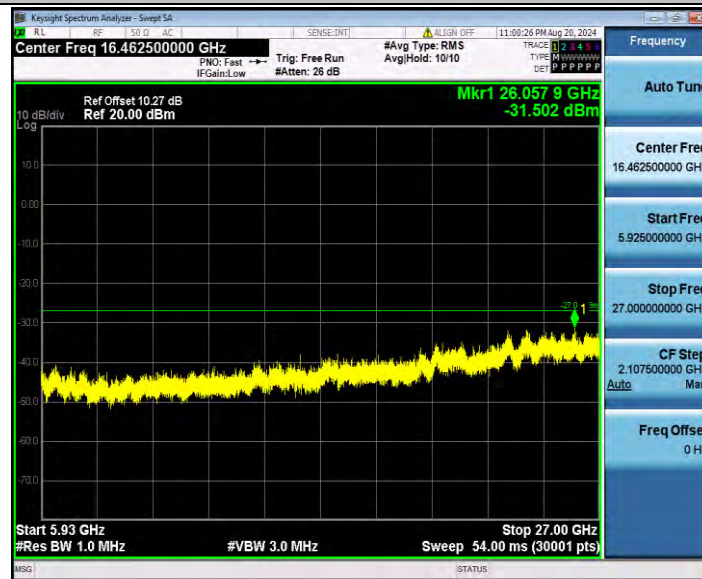
11N40SISO_Ant1_5755_5925~27000



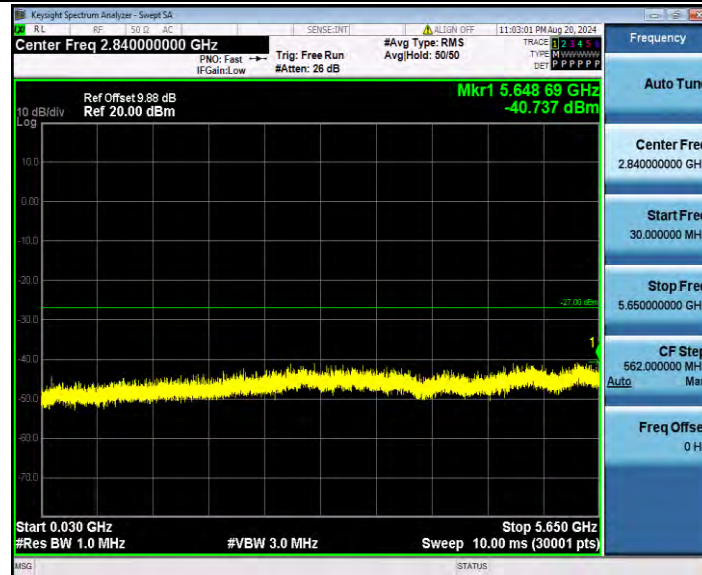
11N40SISO_Ant1_5795_30~5650



11N40SISO_Ant1_5795_5925~27000



11AC20SISO_Ant1_5745_30~5650



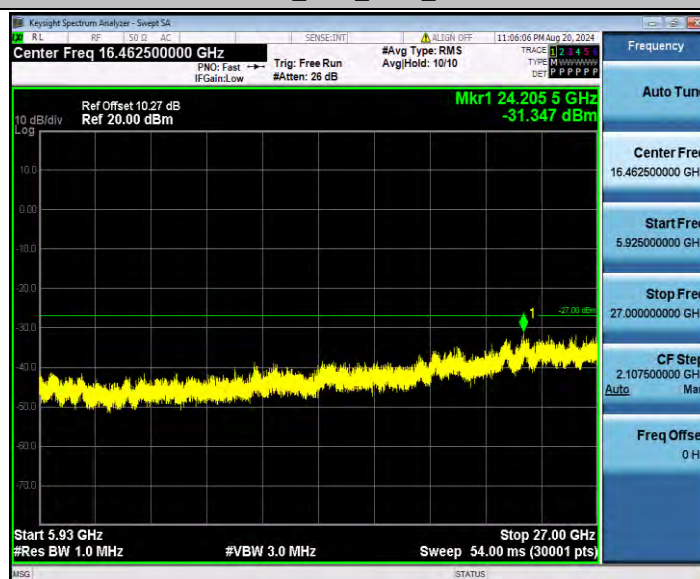
11AC20SISO_Ant1_5745_5925~27000



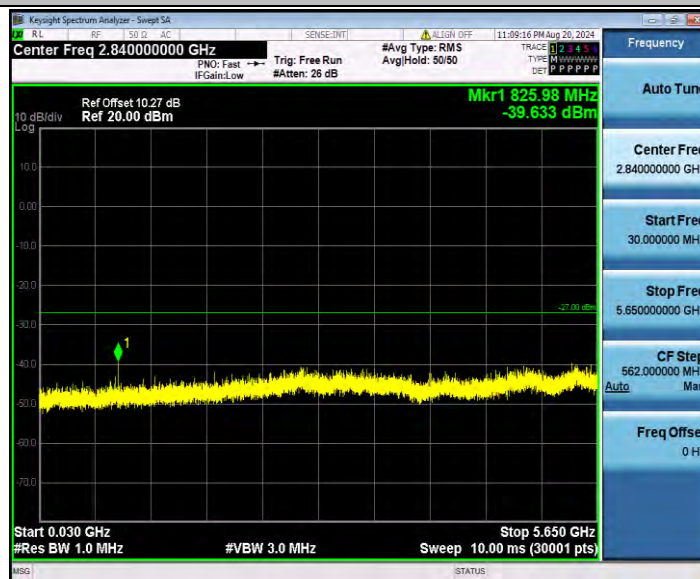
11AC20SISO_Ant1_5785_30~5650



11AC20SISO_Ant1_5785_5925~27000



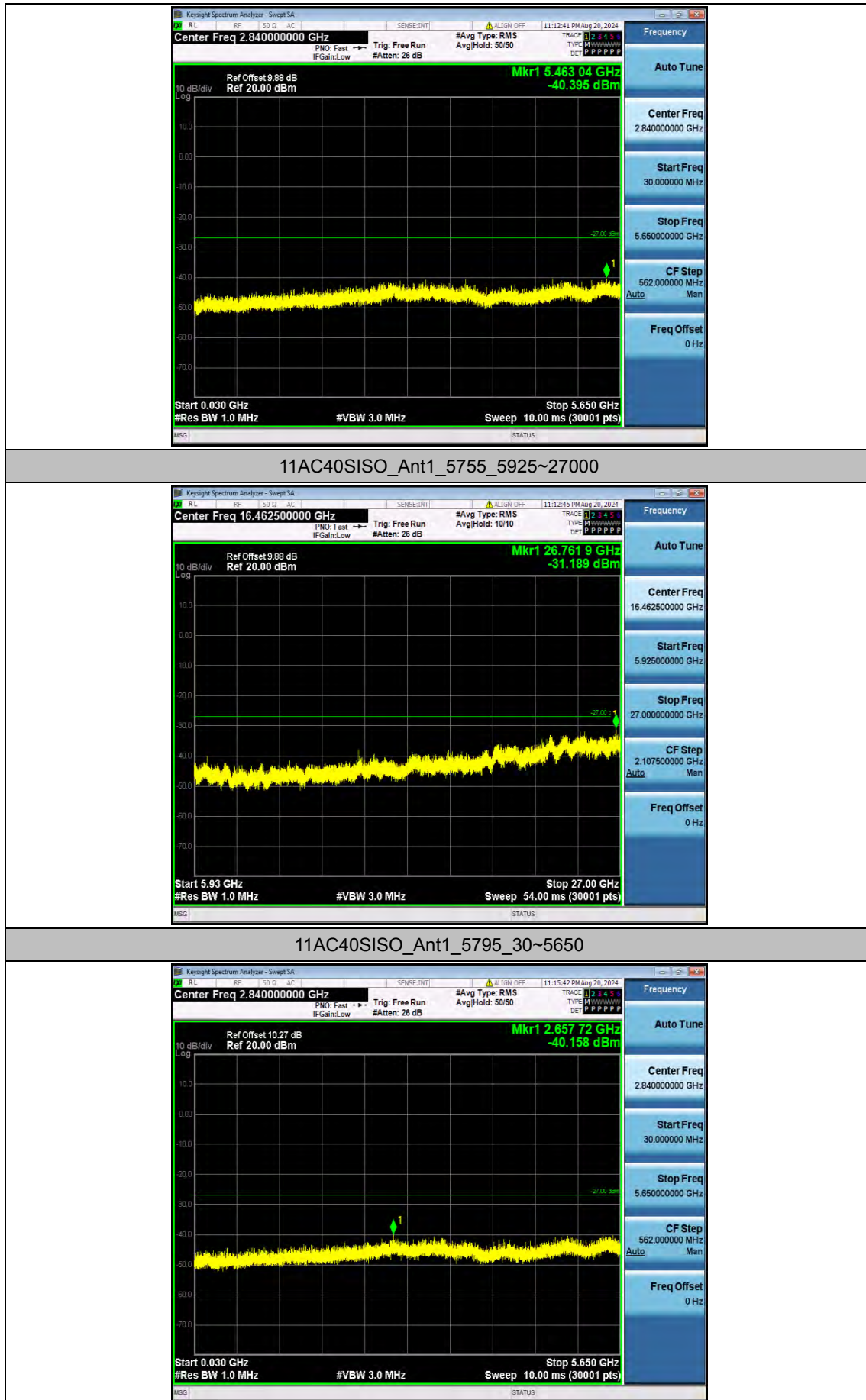
11AC20SISO_Ant1_5825_30~5650



11AC20SISO_Ant1_5825_5925~27000



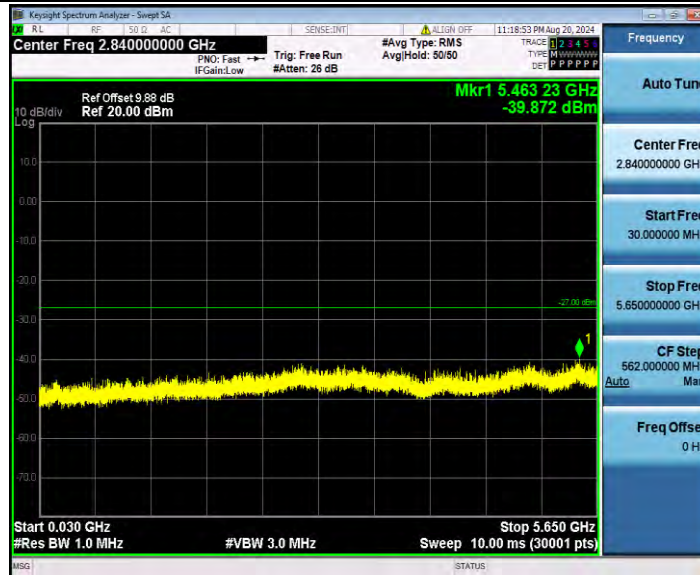
11AC40SISO_Ant1_5755_30~5650



11AC40SISO_Ant1_5795_5925~27000



11AC80SISO_Ant1_5775_30~5650



11AC80SISO_Ant1_5775_5925~27000

