

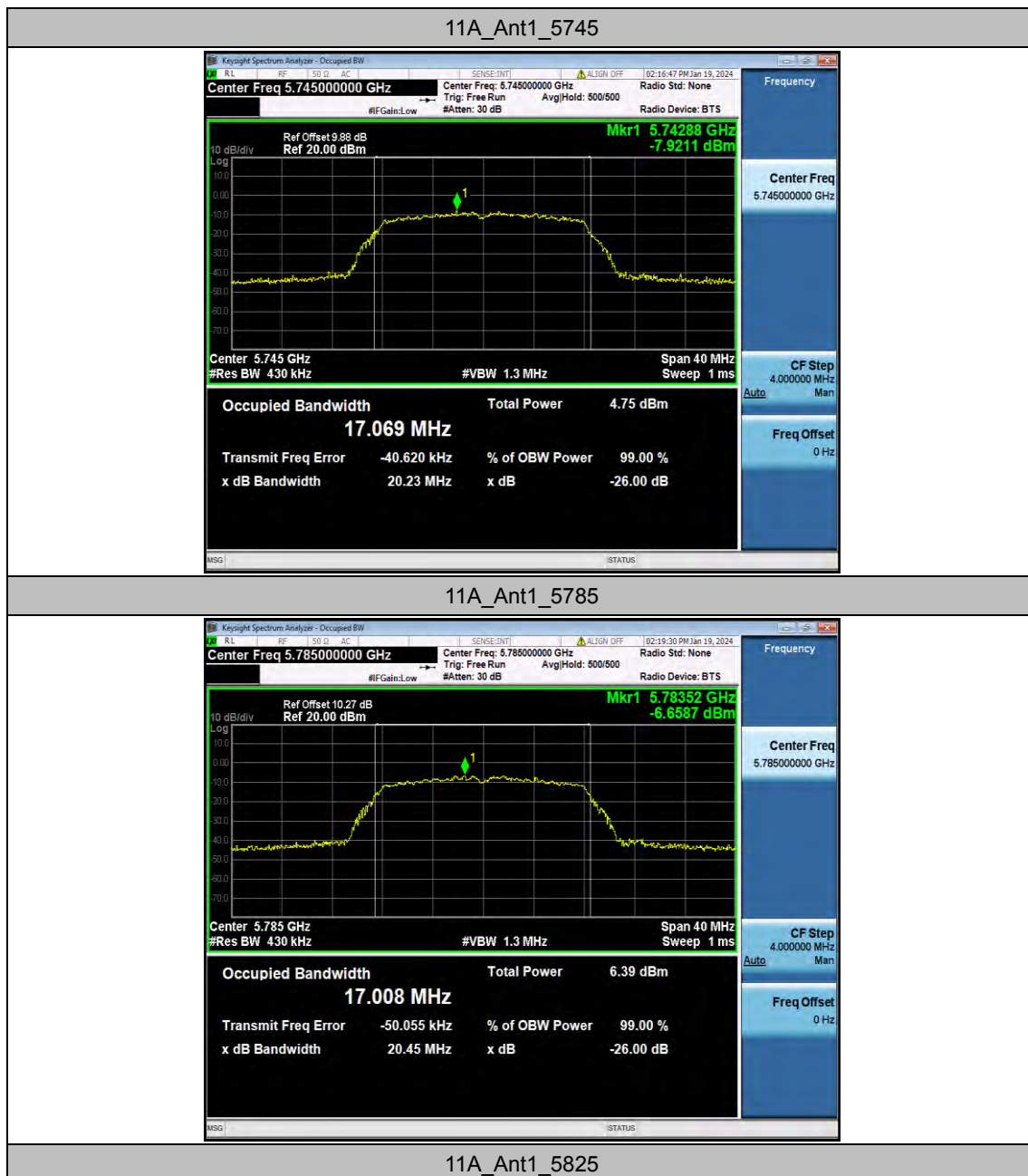
Case No. : <u>GTS20230628002-1-27</u>	
Ambient Condition: <u>23</u> °C, <u>51</u> %RH, Atmos100.1Kpa,	
Test Date: <u>2024.1.19</u>	Test Engineer: <u>Evan ouyang</u>

Appendix E.1: Occupied channel bandwidth

Test Result

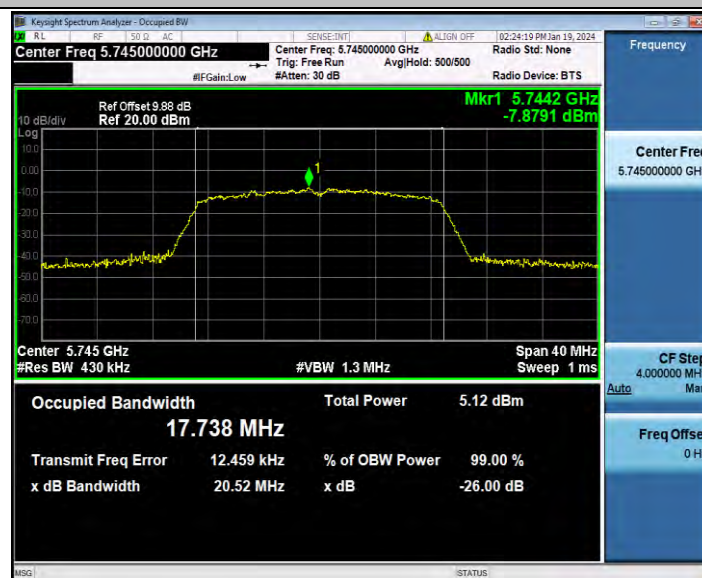
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	17.069	5736.4249	5753.4939	---	---
		5785	17.008	5776.4459	5793.4539	---	---
		5825	17.009	5816.4413	5833.4503	---	---
11N20SISO	Ant1	5745	17.738	5736.1435	5753.8815	---	---
		5785	17.721	5776.1375	5793.8585	---	---
		5825	17.700	5816.1486	5833.8486	---	---
11N40SISO	Ant1	5755	36.441	5736.9017	5773.3427	---	---
		5795	36.375	5776.8853	5813.2603	---	---
11AC20SISO	Ant1	5745	17.729	5736.1423	5753.8713	---	---
		5785	17.708	5776.1374	5793.8454	---	---
		5825	17.684	5816.1604	5833.8444	---	---
11AC40SISO	Ant1	5755	36.304	5736.9749	5773.2789	---	---
		5795	36.293	5776.9815	5813.2745	---	---
11AC80SISO	Ant1	5775	75.910	5737.1872	5813.0972	---	---

Test Graphs





11N20SISO_Ant1_5745



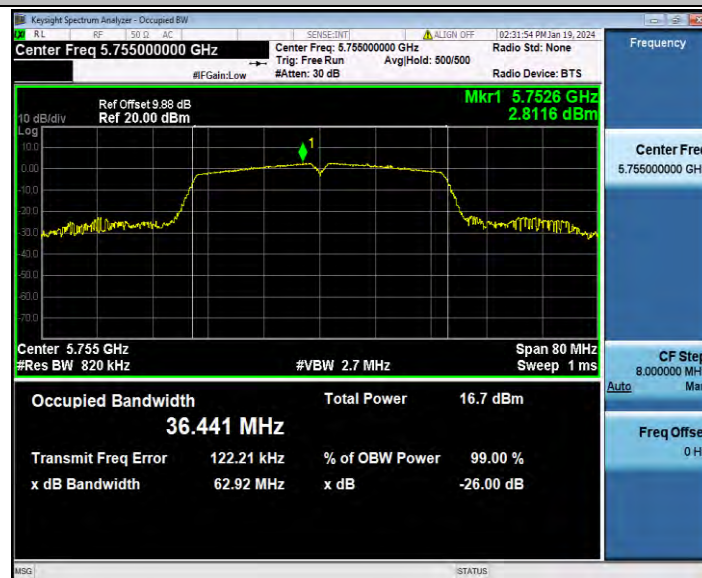
11N20SISO_Ant1_5785



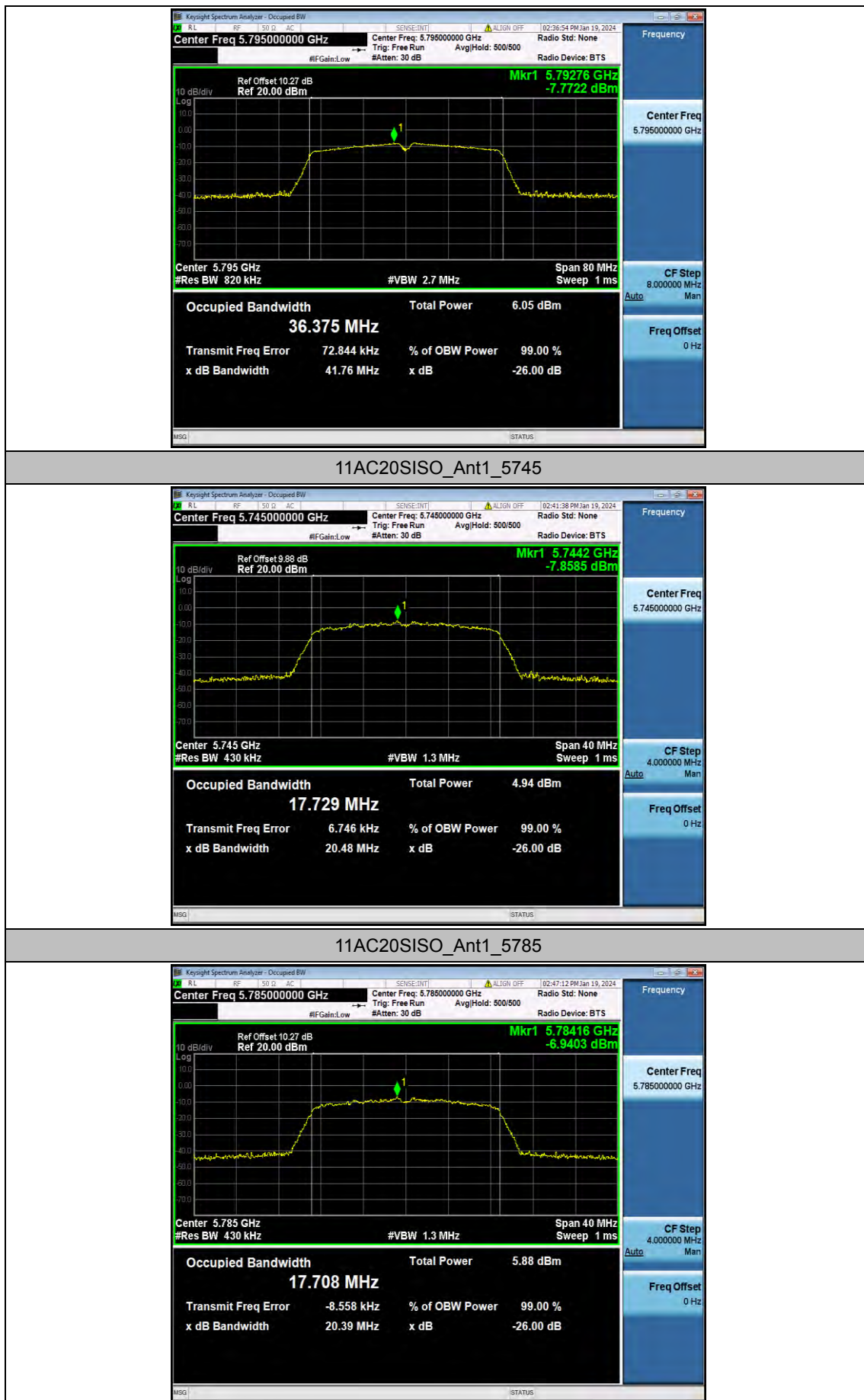
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



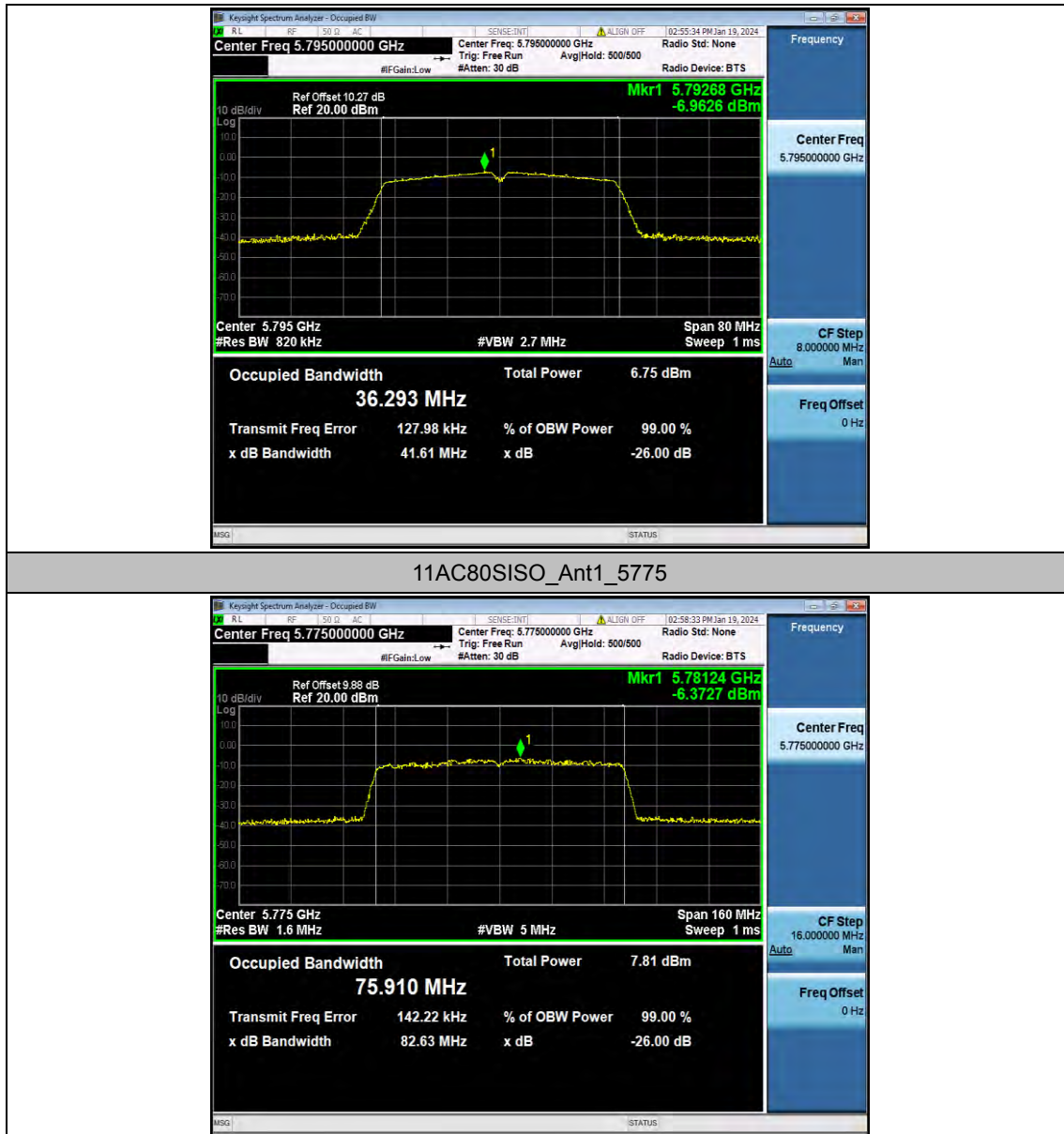
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



Appendix E.2: Min emission bandwidth

Test Result B4

TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.080	5737.440	5752.520	0.5	PASS
		5785	15.080	5777.440	5792.520	0.5	PASS
		5825	15.120	5817.440	5832.560	0.5	PASS
11N20SISO	Ant1	5745	15.080	5737.440	5752.520	0.5	PASS
		5785	15.120	5777.440	5792.560	0.5	PASS
		5825	15.120	5817.440	5832.560	0.5	PASS
11N40SISO	Ant1	5755	35.040	5737.480	5772.520	0.5	PASS
		5795	35.040	5777.480	5812.520	0.5	PASS
11AC20SISO	Ant1	5745	15.120	5737.440	5752.560	0.5	PASS
		5785	15.120	5777.440	5792.560	0.5	PASS
		5825	15.120	5817.440	5832.560	0.5	PASS
11AC40SISO	Ant1	5755	35.040	5737.480	5772.520	0.5	PASS
		5795	35.040	5777.480	5812.520	0.5	PASS
11AC80SISO	Ant1	5775	75.360	5737.400	5812.760	0.5	PASS

Test Graphs B4

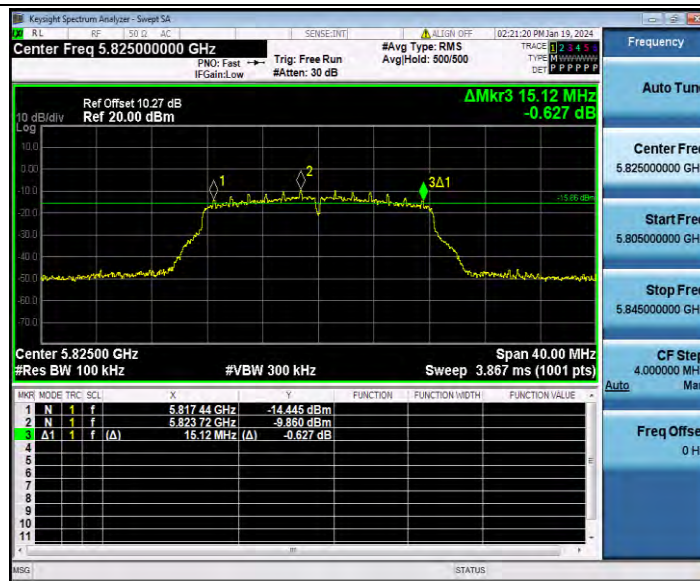
11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5745



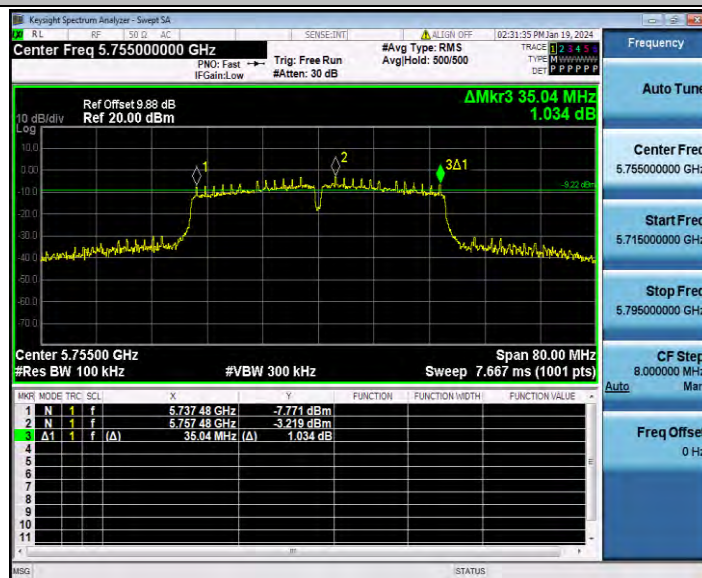
11N20SISO_Ant1_5785



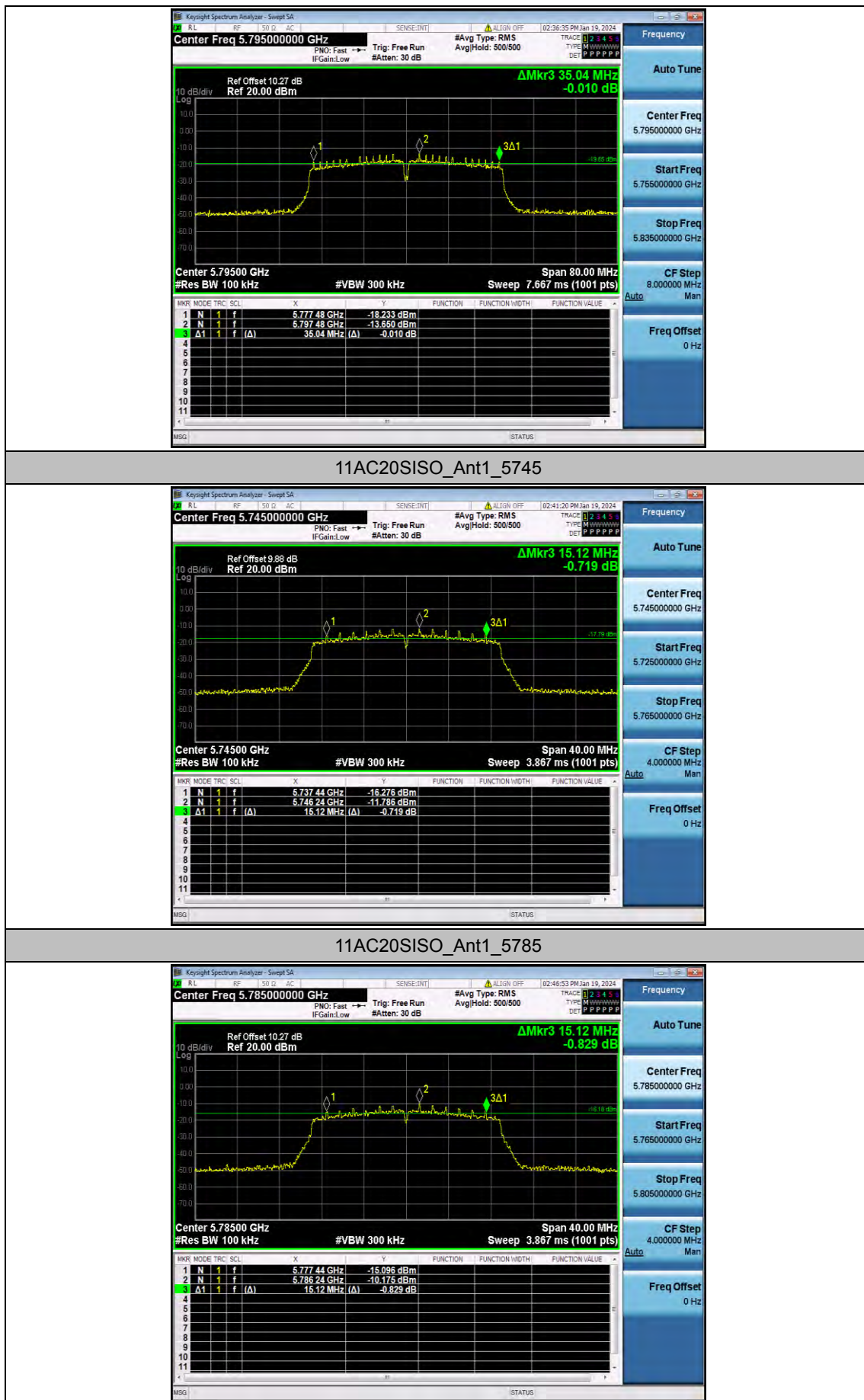
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



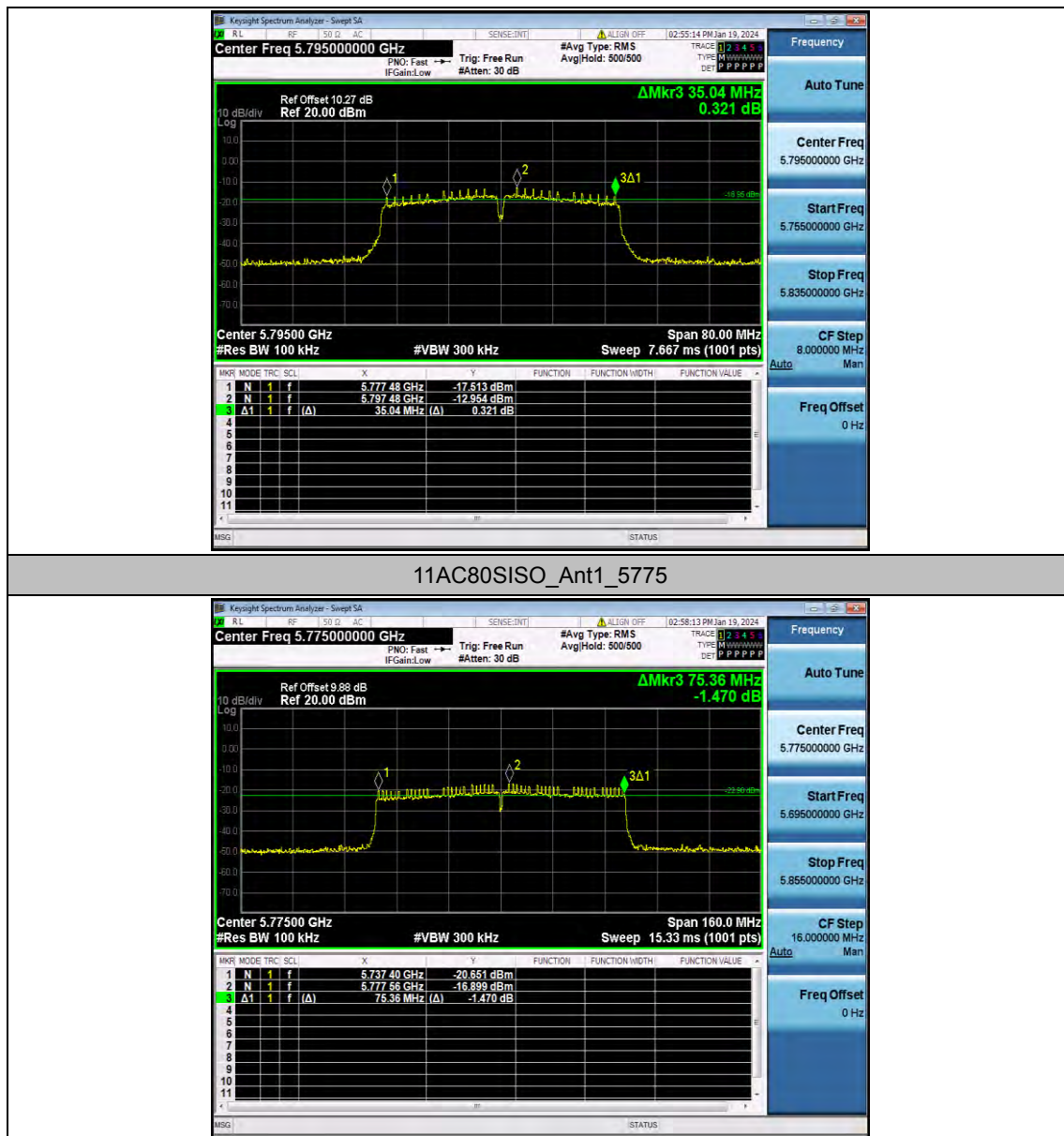
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795

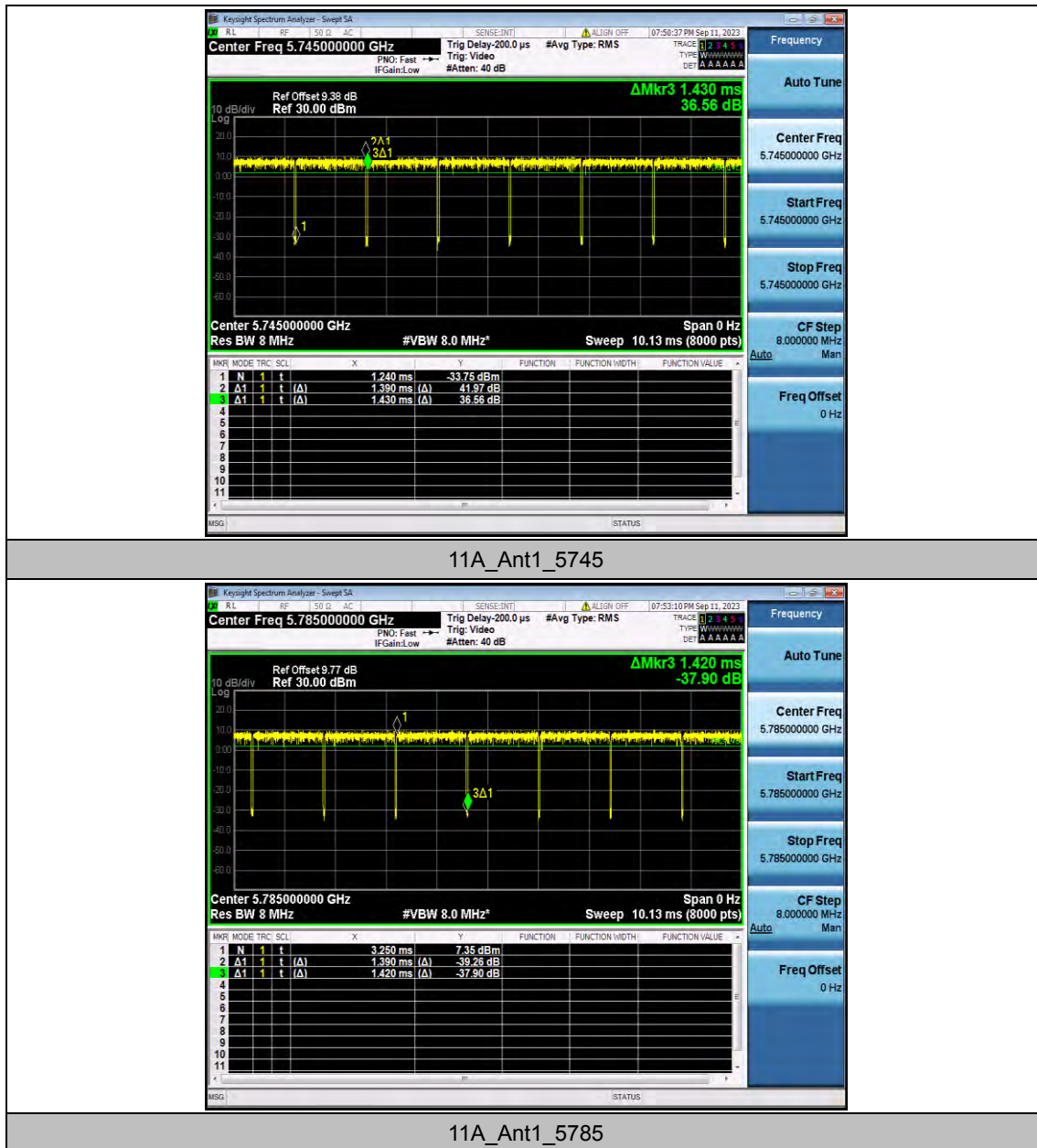


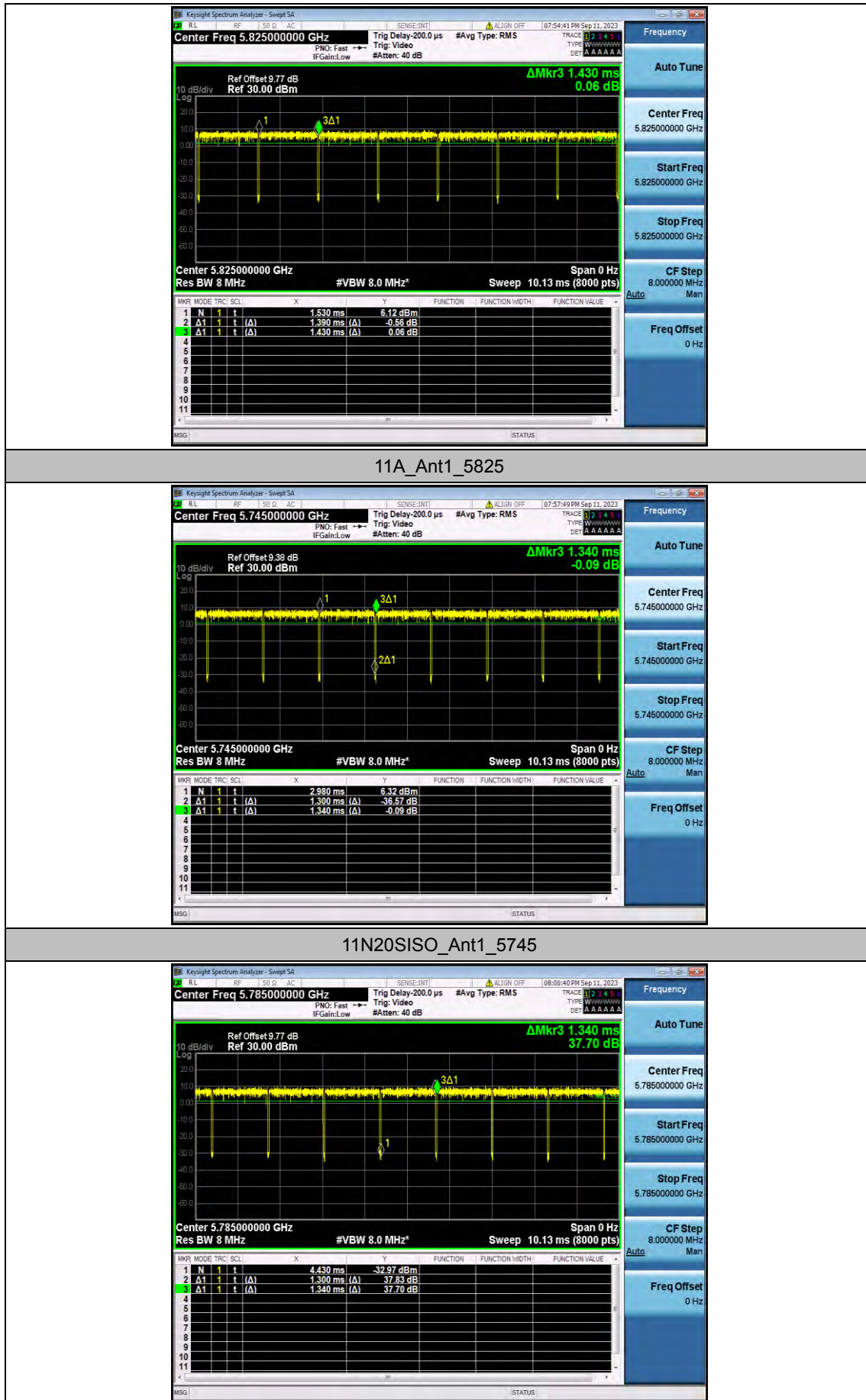
Appendix E.3: Duty Cycle

Test Result

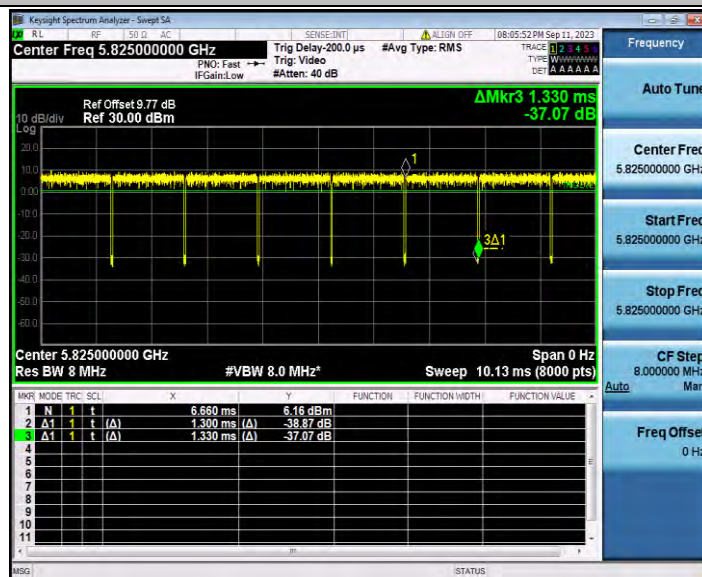
Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5745	1.39	1.43	97.20
		5785	1.39	1.42	97.89
		5825	1.39	1.43	97.20
11N20SISO	Ant1	5745	1.30	1.34	97.01
		5785	1.30	1.34	97.01
		5825	1.30	1.33	97.74
11N40SISO	Ant1	5755	0.65	0.68	95.59
		5795	0.65	0.69	94.20
11AC20SISO	Ant1	5745	1.31	1.35	97.04
		5785	1.31	1.35	97.04
		5825	1.32	1.35	97.78
11AC40SISO	Ant1	5755	0.65	0.68	95.59
		5795	0.65	0.69	94.20
11AC80SISO	Ant1	5775	0.32	0.36	88.89

Test Graphs

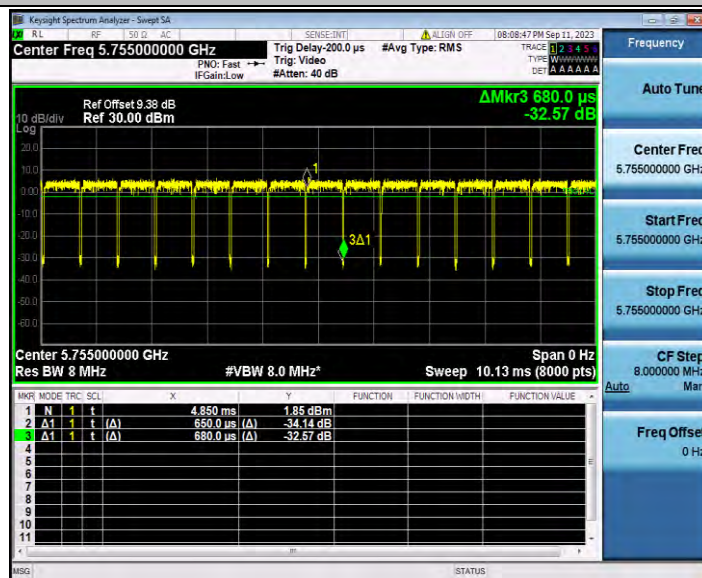




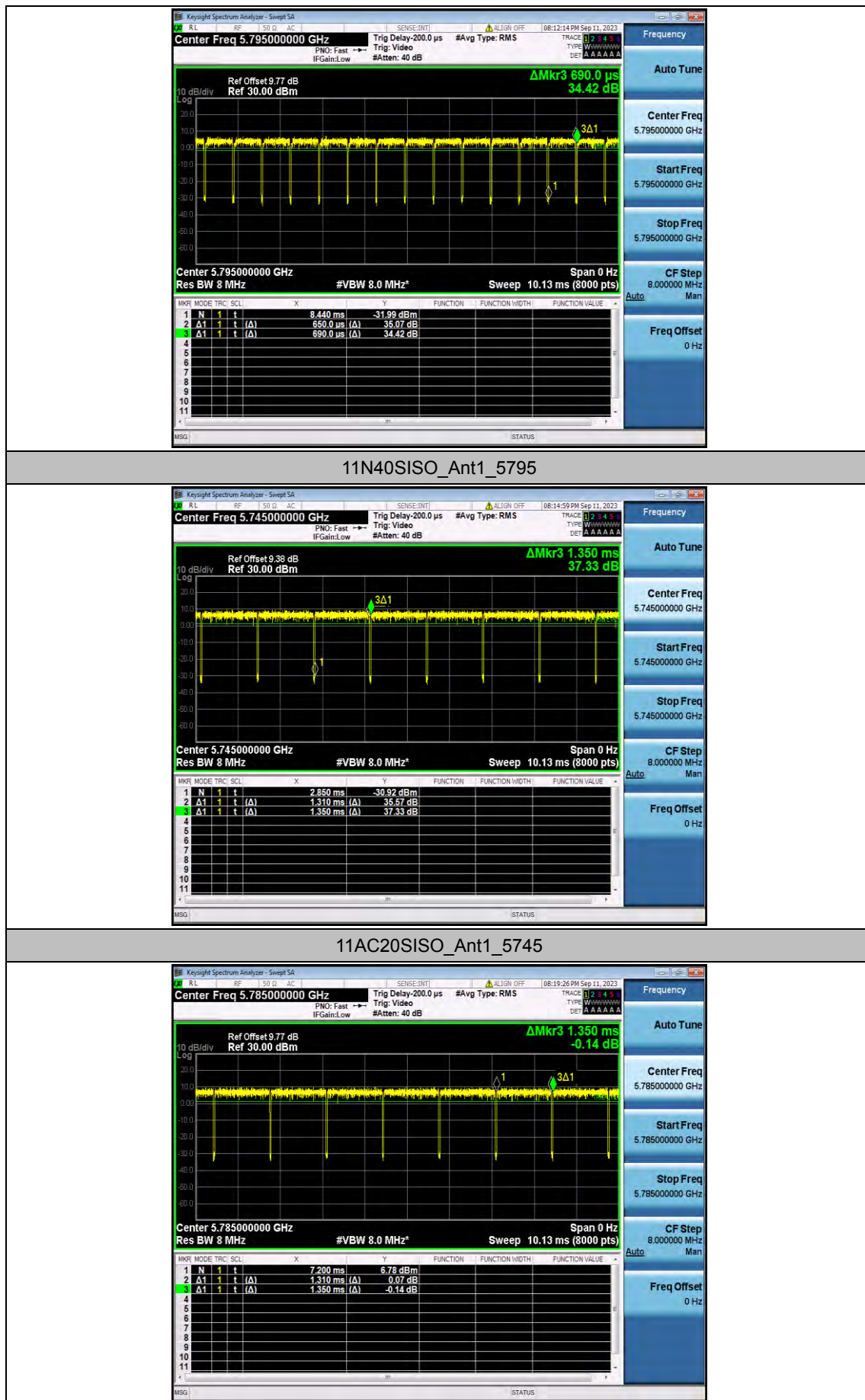
11N20SISO_Ant1_5785



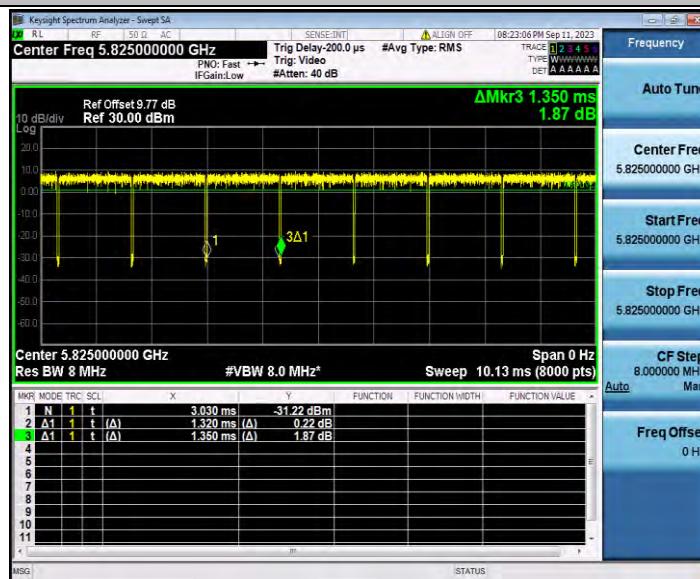
11N20SISO_Ant1_5825



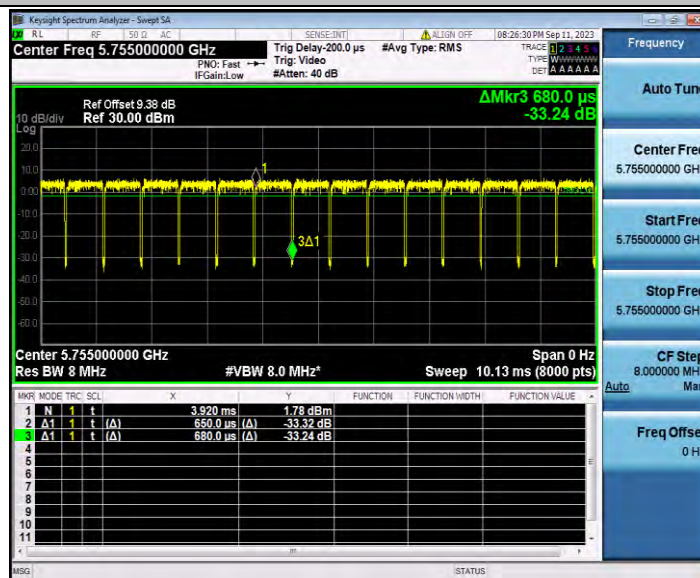
11N40SISO_Ant1_5755



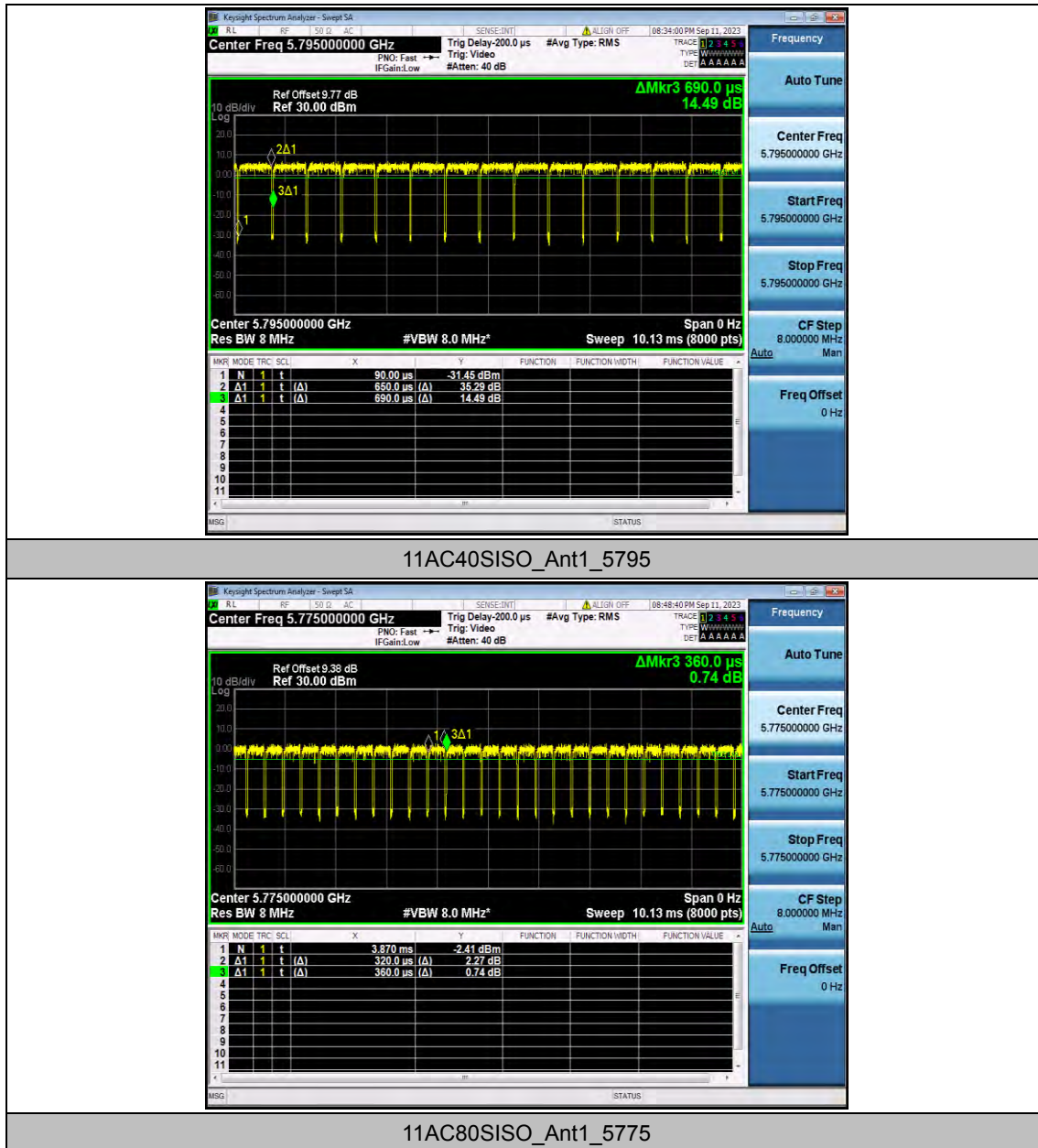
11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



Appendix E.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency[MHz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	13.56	97.20	0.12	13.68	≤30.00	PASS
		5785	14.07	97.89	0.09	14.16	≤30.00	PASS
		5825	13.83	97.20	0.12	13.95	≤30.00	PASS
11N20SISO	Ant1	5745	13.30	97.01	0.13	13.43	≤30.00	PASS
		5785	13.91	97.01	0.13	14.04	≤30.00	PASS
		5825	13.68	97.74	0.10	13.78	≤30.00	PASS
11N40SISO	Ant1	5755	13.53	95.59	0.20	13.73	≤30.00	PASS
		5795	14.03	94.20	0.26	14.29	≤30.00	PASS
11AC20SISO	Ant1	5745	13.51	97.04	0.13	13.64	≤30.00	PASS
		5785	14.00	97.04	0.13	14.13	≤30.00	PASS
		5825	13.65	97.78	0.10	13.75	≤30.00	PASS
11AC40SISO	Ant1	5755	13.53	95.59	0.20	13.73	≤30.00	PASS
		5795	14.00	94.20	0.26	14.26	≤30.00	PASS
11AC80SISO	Ant1	5775	13.34	88.89	0.51	13.85	≤30.00	PASS

Note: The Duty Cycle Factor is compensated in the graph.

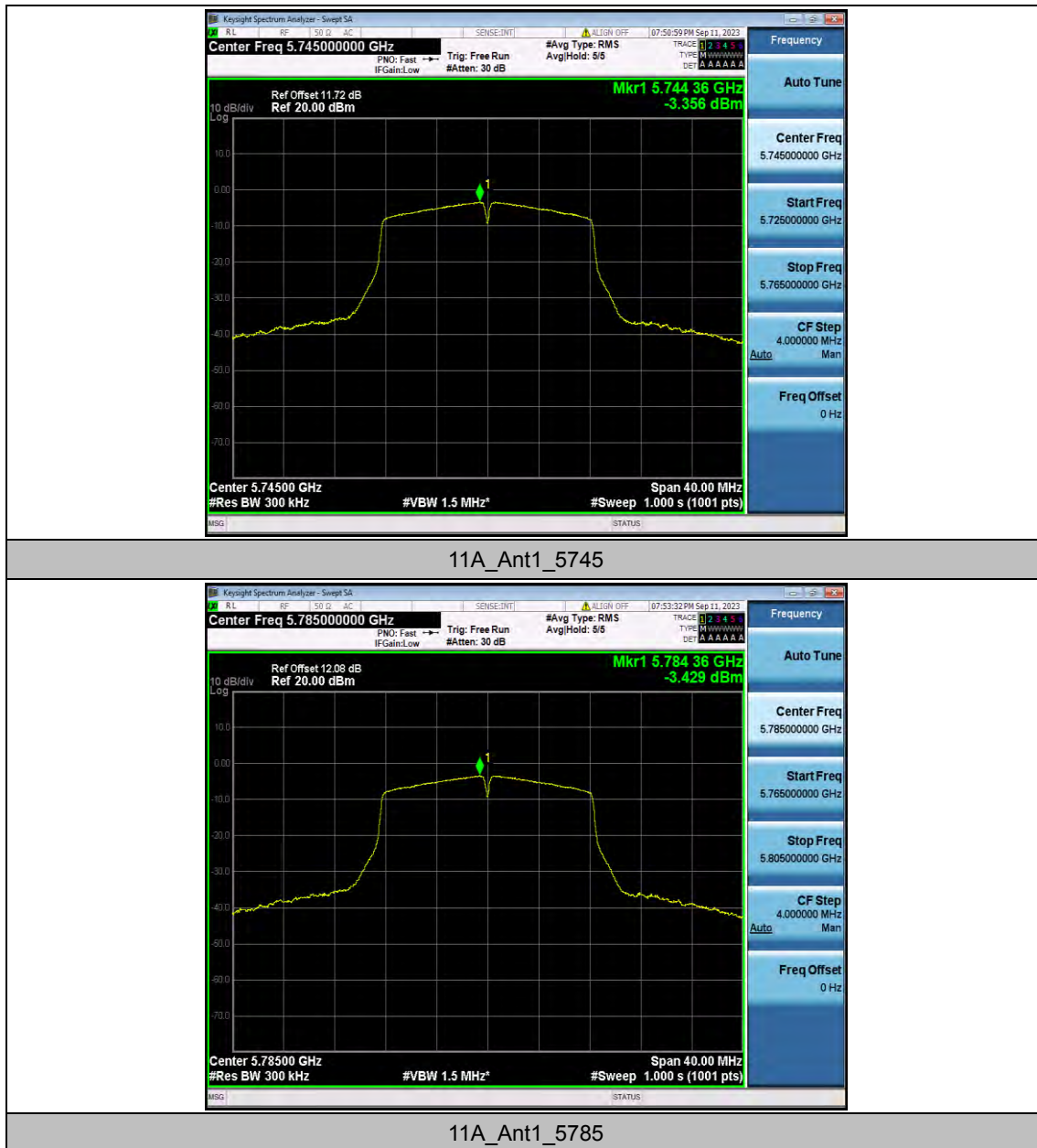
Appendix E.5: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-3.36	≤30.00	PASS
		5785	-3.43	≤30.00	PASS
		5825	-3.94	≤30.00	PASS
11N20SISO	Ant1	5745	-4.19	≤30.00	PASS
		5785	-3.69	≤30.00	PASS
		5825	-4.44	≤30.00	PASS
11N40SISO	Ant1	5755	-7.35	≤30.00	PASS
		5795	-6.72	≤30.00	PASS
11AC20SISO	Ant1	5745	-4.05	≤30.00	PASS
		5785	-3.68	≤30.00	PASS
		5825	-4.46	≤30.00	PASS
11AC40SISO	Ant1	5755	-7.31	≤30.00	PASS
		5795	-6.73	≤30.00	PASS
11AC80SISO	Ant1	5775	-10.81	≤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_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



11AC80SISO_Ant1_5775

Appendix E.6: Band edge measurements

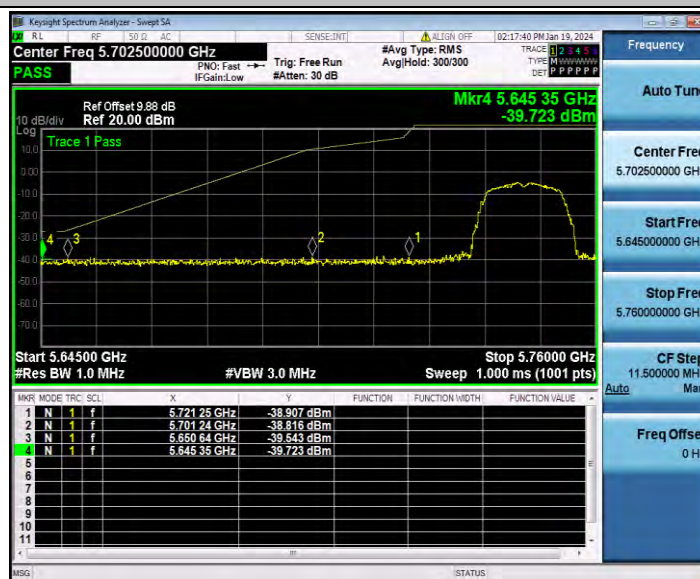
Test Result B4

TestMode	Antenna	ChName	Freq(MHz)	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-39.54	≤-26.53	PASS
				5700~5720	-38.82	≤10.35	PASS
				5720~5725	-38.91	≤18.44	PASS
				5760~5650	-39.72	≤-27	PASS
		High	5825	5850~5855	-38.94	≤16.03	PASS
				5855~5875	-37.98	≤10.17	PASS
				5875~5925	-38.41	≤-25.51	PASS
				5925~5935	-39.02	≤-27	PASS
11N20SI SO	Ant1	Low	5745	5650~5700	-40.49	≤-26.87	PASS
				5700~5720	-40.23	≤10.09	PASS
				5720~5725	-40.95	≤15.82	PASS
				5760~5650	-40.02	≤-27	PASS
		High	5825	5850~5855	-39.21	≤16.34	PASS
				5855~5875	-38.97	≤10.36	PASS
				5875~5925	-39.85	≤-26.81	PASS
				5925~5935	-38.66	≤-27	PASS
11N40SI SO	Ant1	Low	5755	5650~5700	-39.48	≤-25.71	PASS
				5700~5720	-24.68	≤15.47	PASS
				5720~5725	-25.53	≤16.04	PASS
				5780~5650	-38.98	≤-27	PASS
		High	5795	5850~5855	-40.22	≤15.66	PASS
				5855~5875	-38.25	≤10.71	PASS
				5875~5925	-39.48	≤-26.71	PASS
				5925~5935	-38.69	≤-27	PASS
11AC20S ISO	Ant1	Low	5745	5650~5700	-39.43	≤-26.45	PASS
				5700~5720	-39.66	≤10.28	PASS
				5720~5725	-41.13	≤15.82	PASS
				5760~5650	-39.53	≤-27	PASS
		High	5825	5850~5855	-39.06	≤17.26	PASS
				5855~5875	-38.57	≤10.21	PASS
				5875~5925	-39.42	≤-26.61	PASS
				5925~5935	-38.39	≤-27	PASS
11AC40S ISO	Ant1	Low	5755	5650~5700	-40.27	≤-26.60	PASS
				5700~5720	-39.47	≤10.10	PASS
				5720~5725	-39.53	≤16.97	PASS

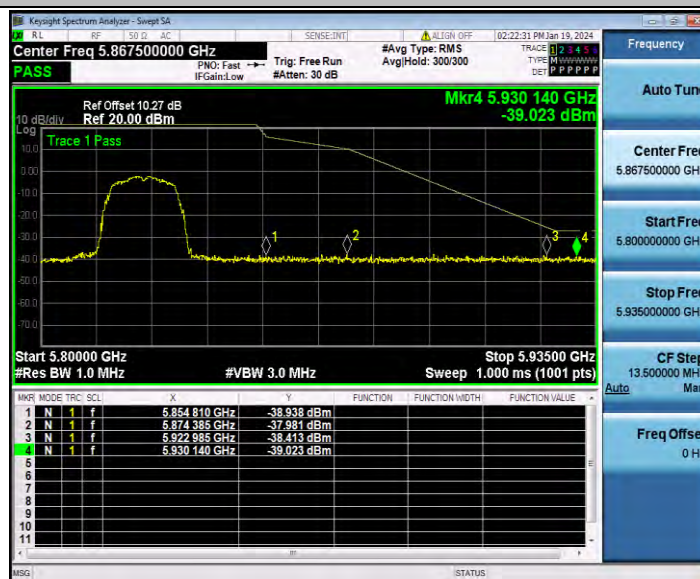
		High	5795	5780~5650	-40.44	≤ -27	PASS
				5850~5855	-40.15	≤ 16.03	PASS
				5855~5875	-38.36	≤ 10.43	PASS
				5875~5925	-39.1	≤ -26.59	PASS
				5925~5935	-38.48	≤ -27	PASS
11AC80S ISO	Ant1	Low	5775	5650~5700	-39.58	≤ -26.69	PASS
				5700~5720	-38.69	≤ 10.53	PASS
				5720~5725	-40.02	≤ 15.65	PASS
				5800~5650	-39.7	≤ -27	PASS
		High	5775	5850~5855	-40.28	≤ 16.26	PASS
				5855~5875	-39.35	≤ 10.14	PASS
				5875~5925	-38.24	≤ -26.32	PASS
				5925~5935	-39.15	≤ -27	PASS

Test Graphs B4

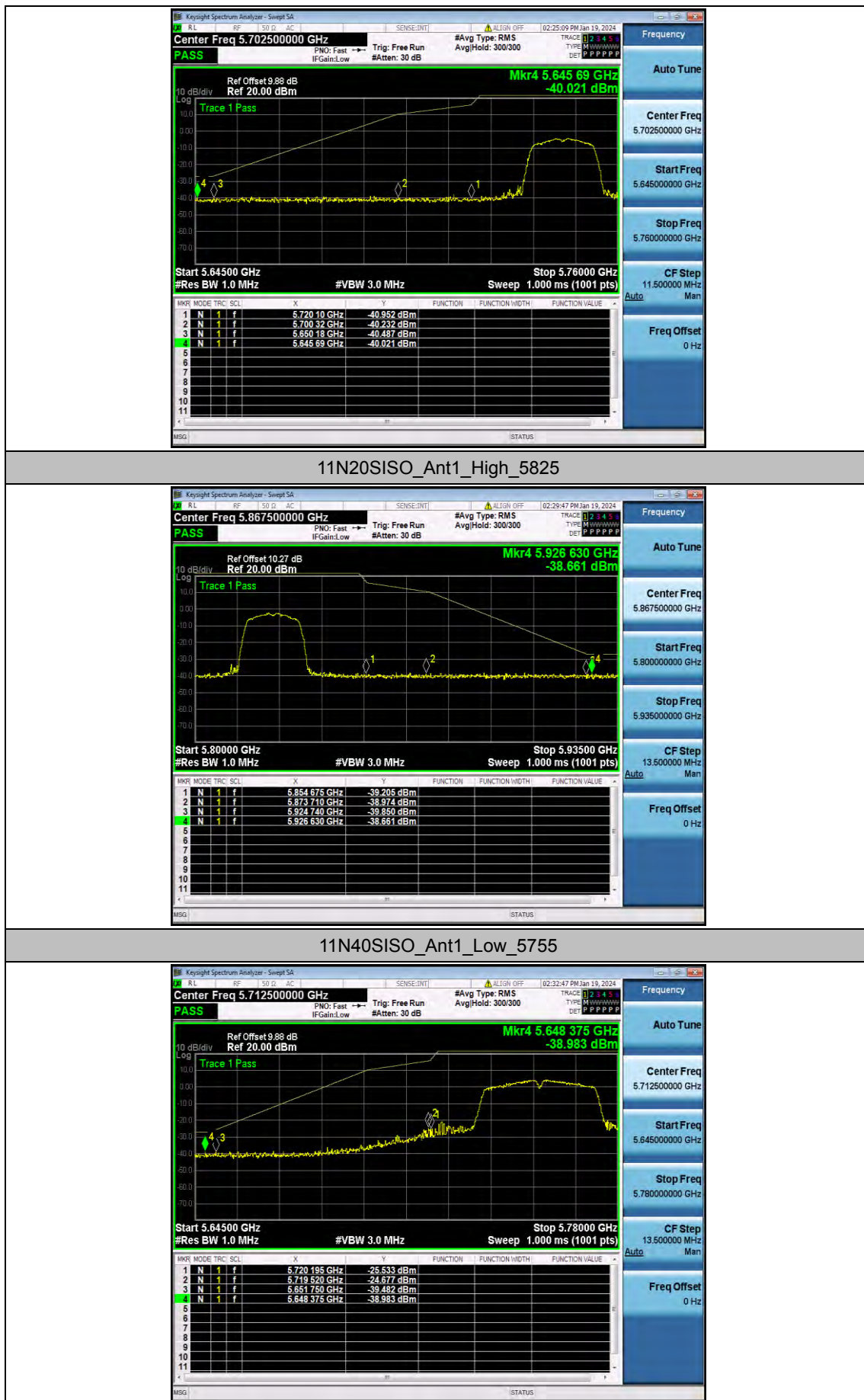
11A_Ant1_Low_5745



11A_Ant1_High_5825



11N20SISO_Ant1_Low_5745



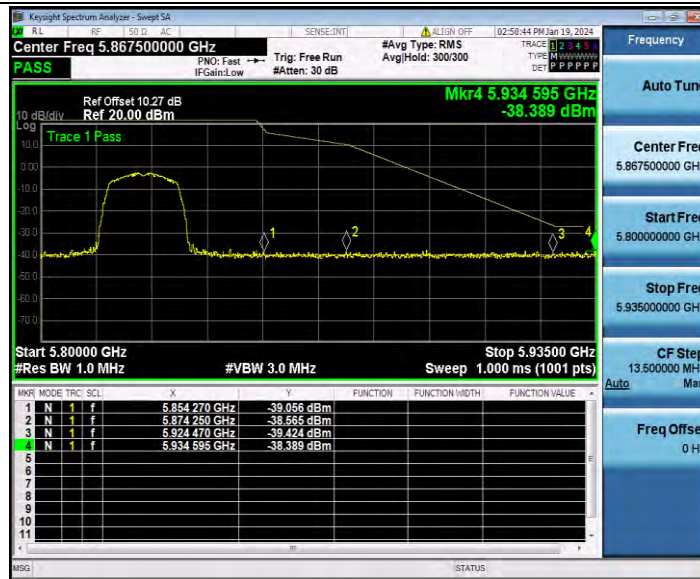
11N40SISO_Ant1_High_5795



11AC20SISO_Ant1_Low_5745



11AC20SISO_Ant1_High_5825



11AC40SISO_Ant1_Low_5755



11AC40SISO_Ant1_High_5795



11AC80SISO_Ant1_Low_5775



11AC80SISO_Ant1_High_5775

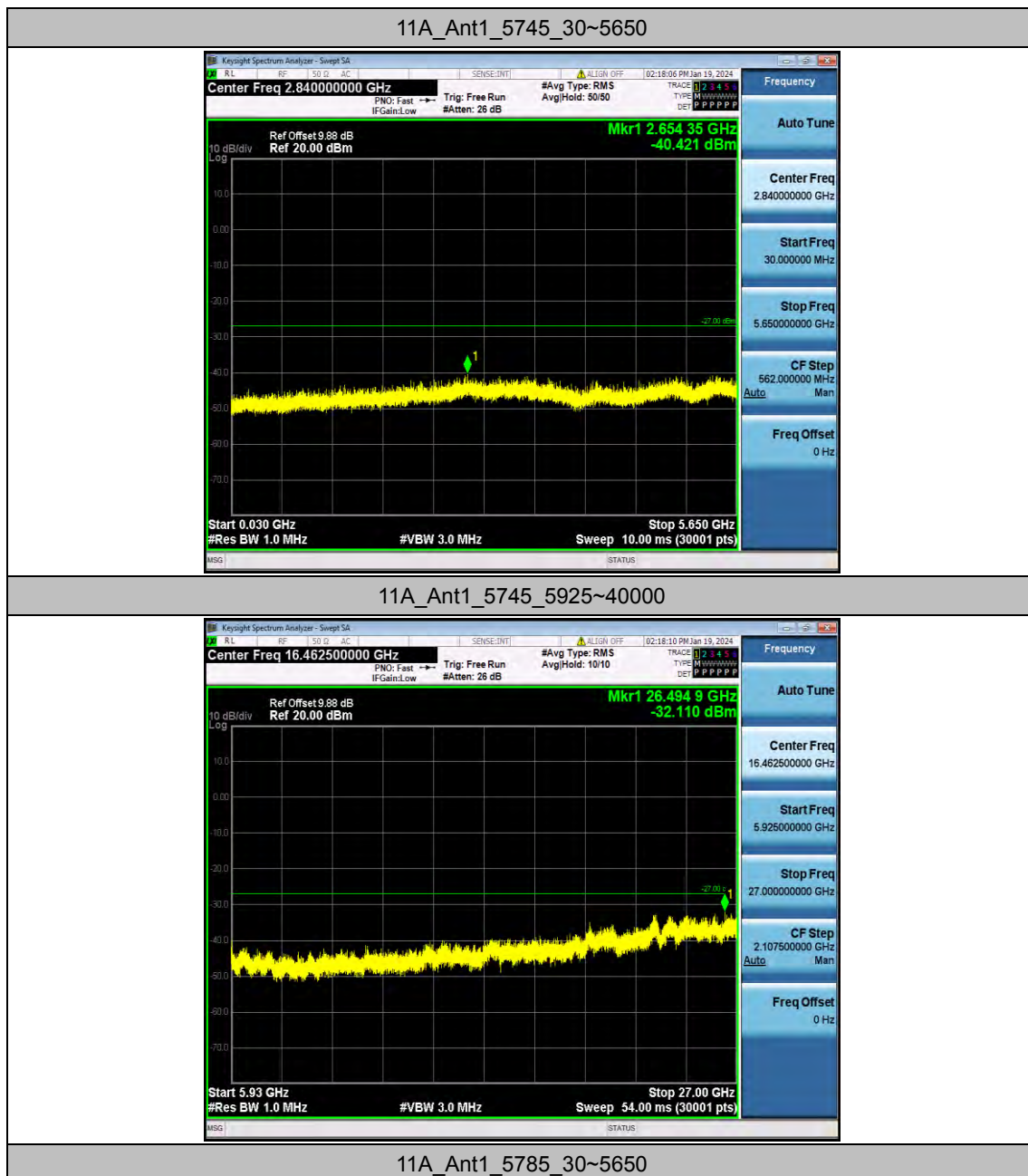


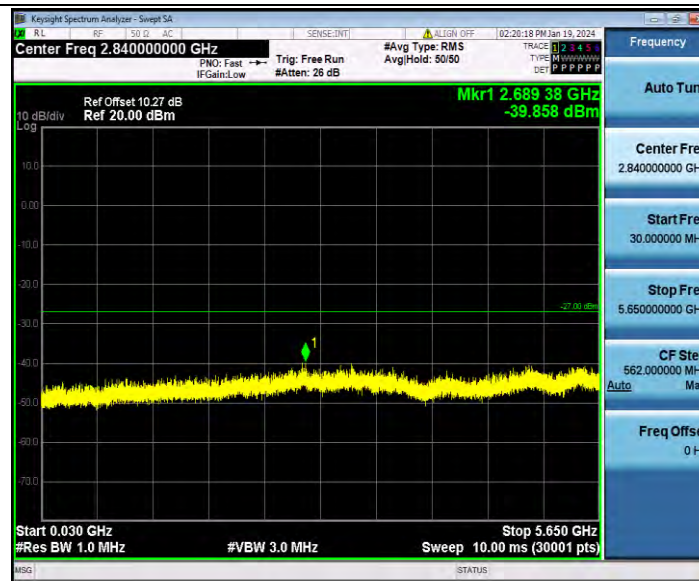
Appendix E.7: Conducted Spurious Emission

Test Result

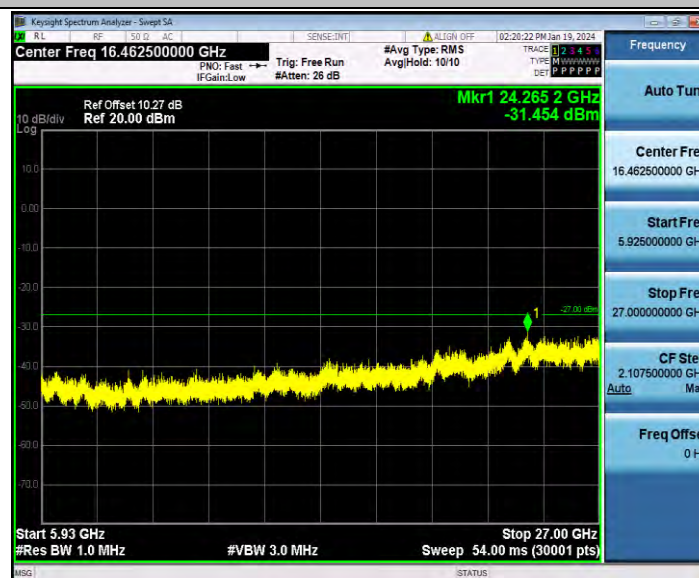
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	30~5650	2654.35	-40.42	≤-27	PASS
			5925~40000	26494.9	-32.11	≤-27	PASS
		5785	30~5650	2689.38	-39.86	≤-27	PASS
			5925~40000	24265.17	-31.45	≤-27	PASS
		5825	30~5650	5429.88	-40.27	≤-27	PASS
			5925~40000	26144.36	-30.86	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	5443	-39.85	≤-27	PASS
			5925~40000	26963.47	-32.13	≤-27	PASS
		5785	30~5650	4953.49	-39.77	≤-27	PASS
			5925~40000	25623.1	-31.82	≤-27	PASS
		5825	30~5650	3027.15	-40.29	≤-27	PASS
			5925~40000	24959.24	-31.5	≤-27	PASS
11N40SISO	Ant1	5755	30~5650	5559.33	-40.16	≤-27	PASS
			5925~40000	26448.54	-32.57	≤-27	PASS
		5795	30~5650	5376.31	-39.67	≤-27	PASS
			5925~40000	26546.89	-31.71	≤-27	PASS
11AC20SISO	Ant1	5745	30~5650	5482.15	-39.13	≤-27	PASS
			5925~40000	24237.77	-31.99	≤-27	PASS
		5785	30~5650	5619.28	-39.67	≤-27	PASS
			5925~40000	25043.54	-32.28	≤-27	PASS
		5825	30~5650	5577.88	-39.63	≤-27	PASS
			5925~40000	24237.07	-31.18	≤-27	PASS
11AC40SISO	Ant1	5755	30~5650	5455.36	-40.39	≤-27	PASS
			5925~40000	24794.85	-32.22	≤-27	PASS
		5795	30~5650	5454.8	-39.53	≤-27	PASS
			5925~40000	24785.72	-31	≤-27	PASS
11AC80SISO	Ant1	5775	30~5650	2673.09	-39.69	≤-27	PASS
			5925~40000	24797.66	-32.47	≤-27	PASS

Test Graphs

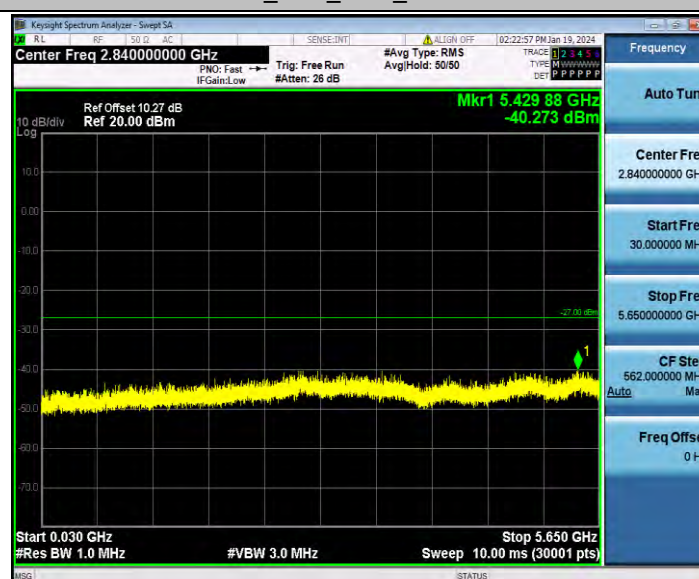




11A_Ant1_5785_5925~40000



11A_Ant1_5825_30~5650



11A_Ant1_5825_5925~40000



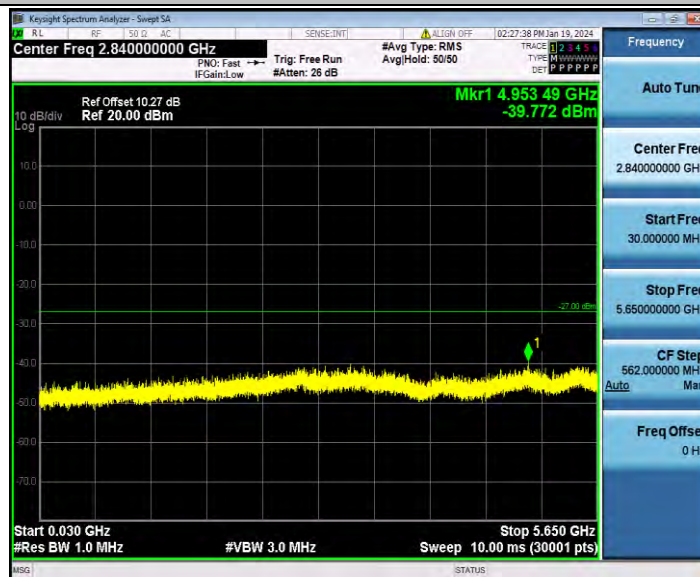
11N20SISO_Ant1_5745_30~5650



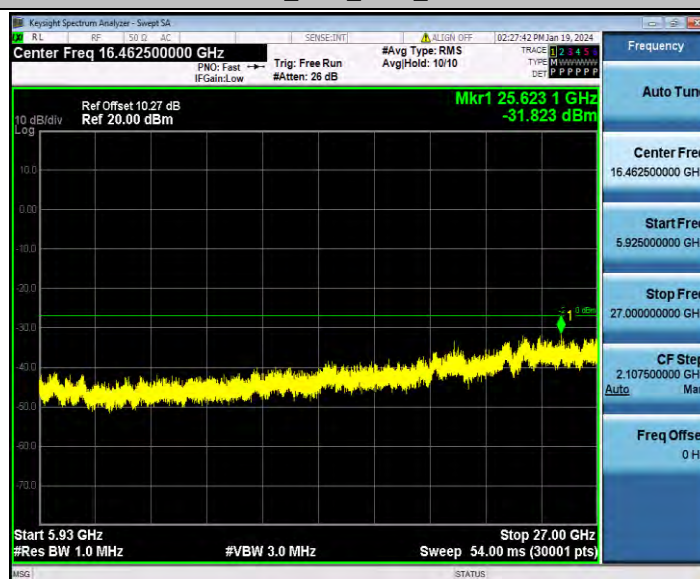
11N20SISO_Ant1_5745_5925~40000



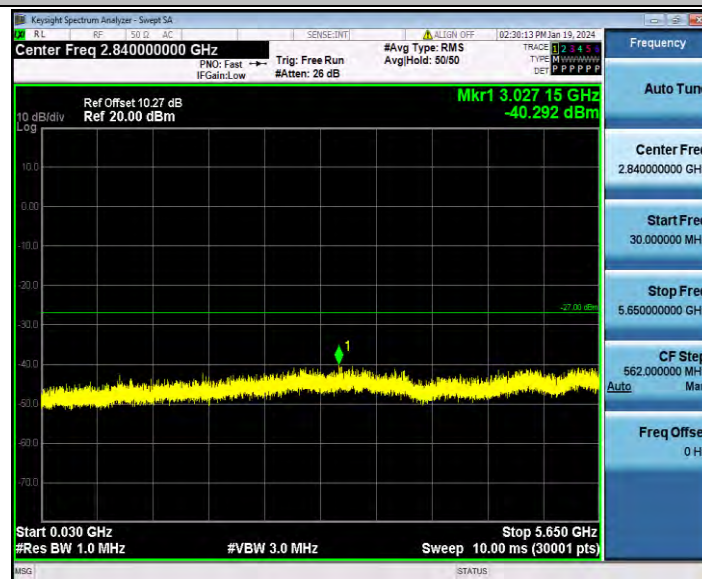
11N20SISO_Ant1_5785_30~5650



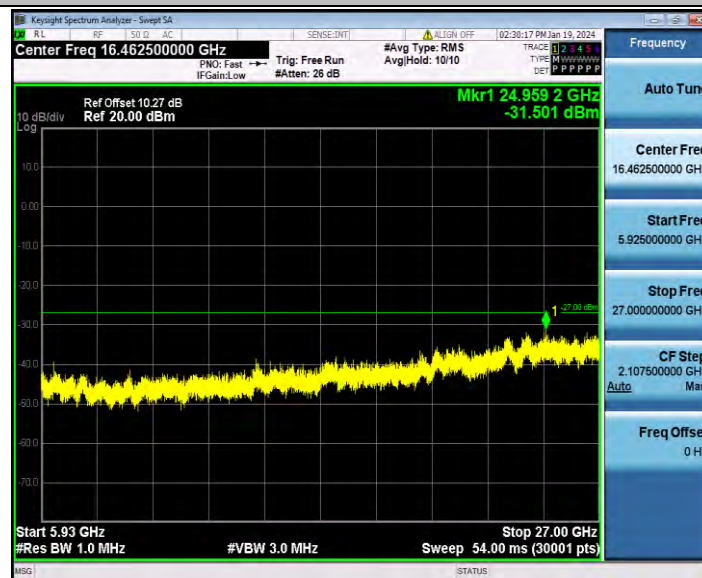
11N20SISO_Ant1_5785_5925~40000



11N20SISO_Ant1_5825_30~5650



11N20SISO_Ant1_5825_5925~40000



11N40SISO_Ant1_5755_30~5650



11N40SISO_Ant1_5755_5925~40000



11N40SISO_Ant1_5795_30~5650



11N40SISO_Ant1_5795_5925~40000



11AC20SISO_Ant1_5745_30~5650



11AC20SISO_Ant1_5745_5925~40000



11AC20SISO_Ant1_5785_30~5650



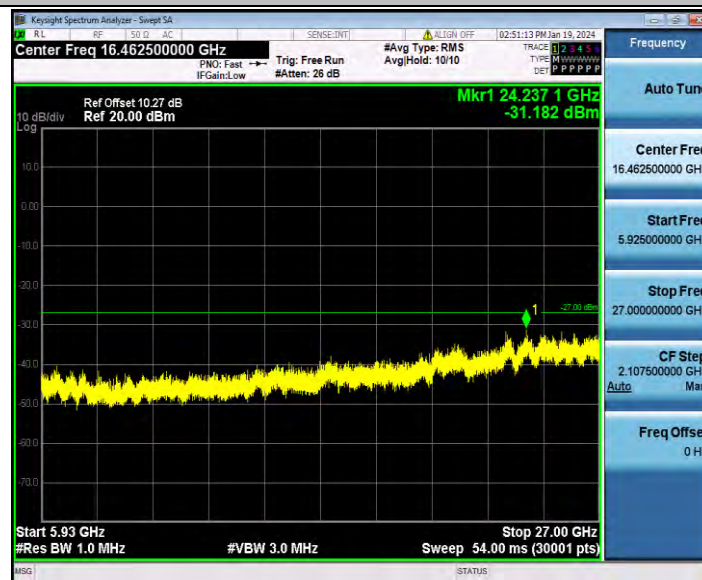
11AC20SISO_Ant1_5785_5925~40000



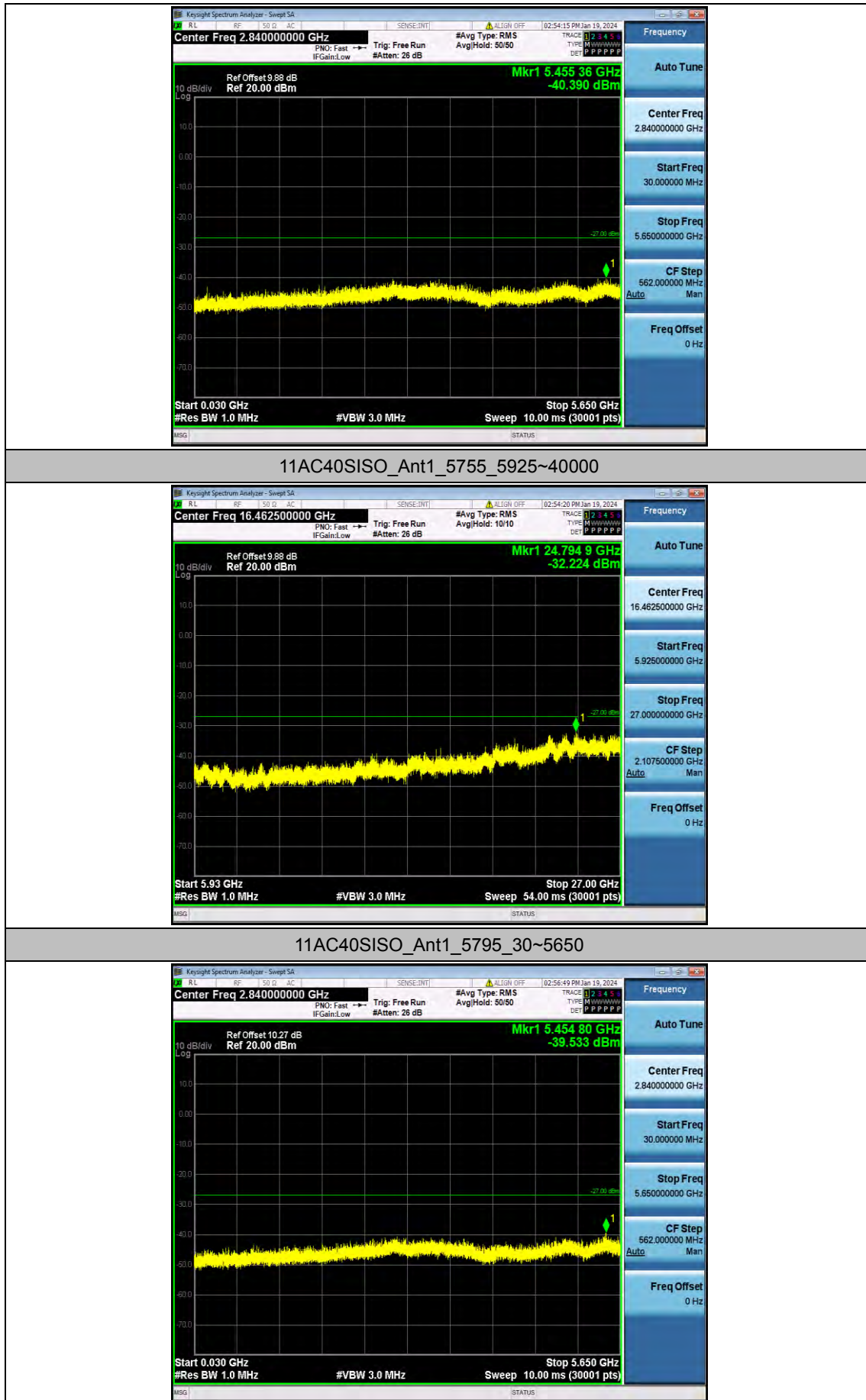
11AC20SISO_Ant1_5825_30~5650



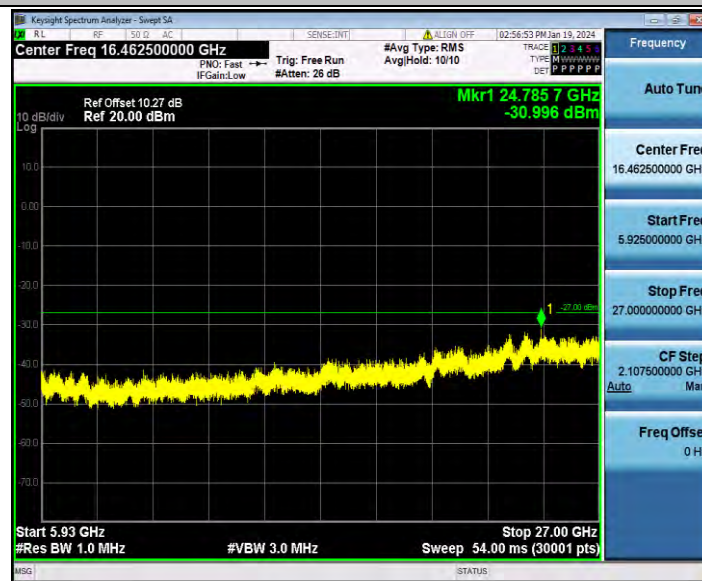
11AC20SISO_Ant1_5825_5925~40000



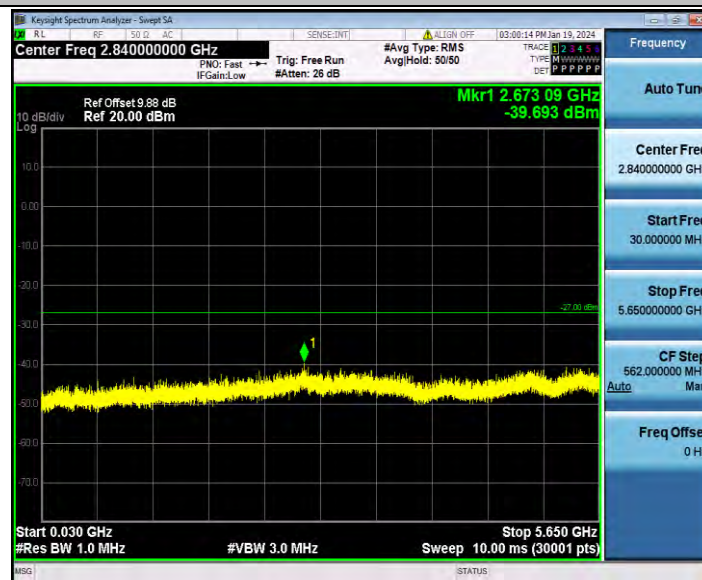
11AC40SISO_Ant1_5755_30~5650



11AC40SISO_Ant1_5795_5925~40000



11AC80SISO_Ant1_5775_30~5650



11AC80SISO_Ant1_5775_5925~40000



Appendix E.8: Emissions in Restricted Bands

Test Result

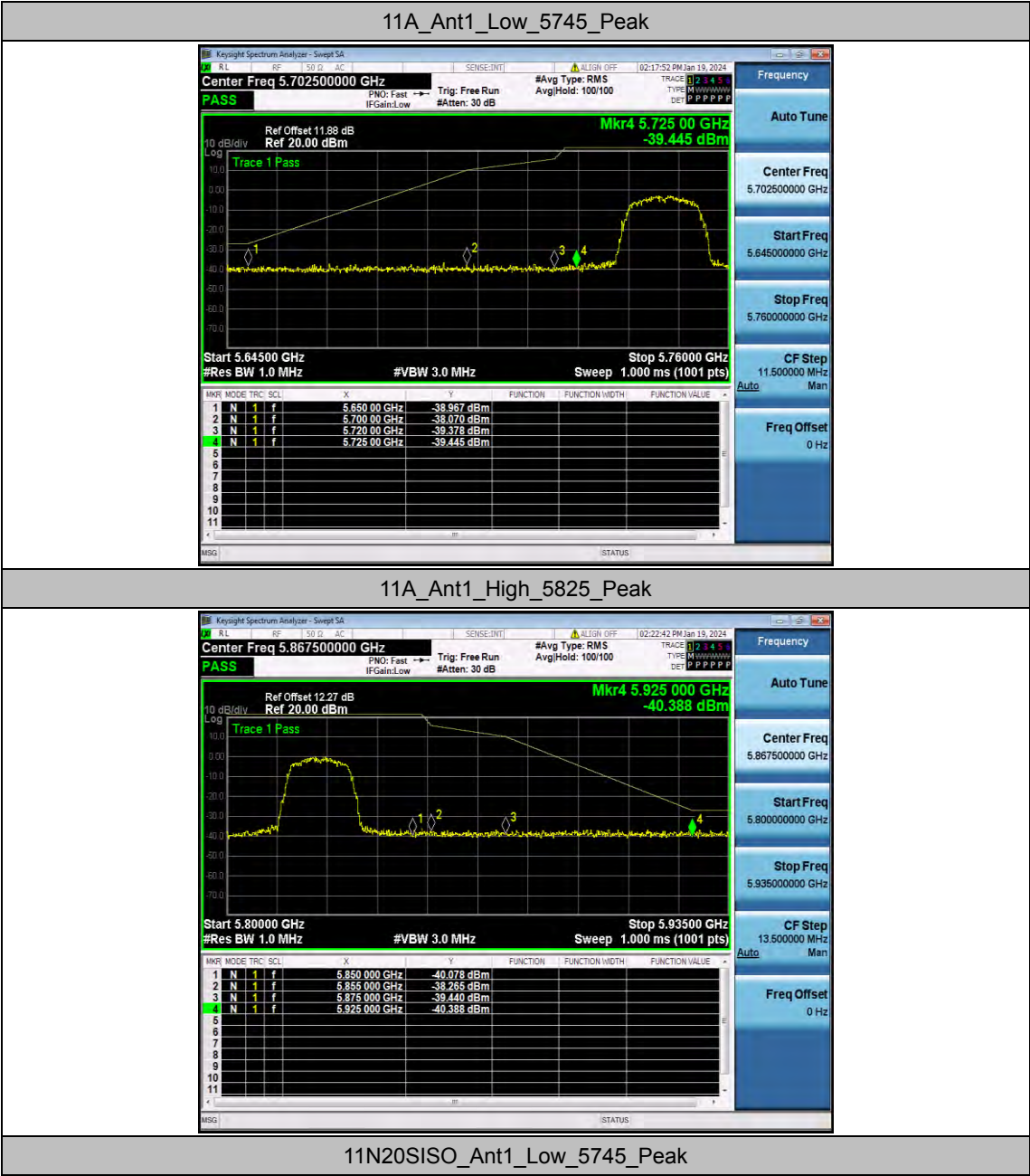
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Result [dBuV/m]	Limit [dBuV/m]	Verdict
11A	Ant1	Low	5745	Peak	5650.000	-38.96 7	≤-27.00	---	---	PASS
				Peak	5700.000	-38.07	≤10.00	---	---	PASS
				Peak	5720.000	-39.38	≤15.60	---	---	PASS
				Peak	5725.000	-39.45	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-40.07 8	≤27.00	---	---	PASS
				Peak	5855.000	-38.27	≤15.60	---	---	PASS
				Peak	5875.000	-39.44	≤10.00	---	---	PASS
				Peak	5925.000	-40.39	≤-27.00	---	---	PASS
11N20SISO	Ant1	Low	5745	Peak	5650.000	-41.08	≤-27.00	---	---	PASS
				Peak	5700.000	-40.58	≤10.00	---	---	PASS
				Peak	5720.000	-40.88	≤15.60	---	---	PASS
				Peak	5725.000	-40.47	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-38.93 8	≤27.00	---	---	PASS
				Peak	5855.000	-39.11	≤15.60	---	---	PASS
				Peak	5875.000	-37.89	≤10.00	---	---	PASS
				Peak	5925.000	-38.6	≤-27.00	---	---	PASS
11N40SISO	Ant1	Low	5755	Peak	5650.000	-40.82	≤-27.00	---	---	PASS
				Peak	5700.000	-36.23	≤10.00	---	---	PASS
				Peak	5720.000	-28.57	≤15.60	---	---	PASS
				Peak	5725.000	-25.25	≤27.00	---	---	PASS
		High	5795	Peak	5850.000	-41.12 6	≤27.00	---	---	PASS
				Peak	5855.000	-41.86	≤15.60	---	---	PASS
				Peak	5875.000	-40.39	≤10.00	---	---	PASS
				Peak	5925.000	-42.01	≤-27.00	---	---	PASS
11AC20SISO	Ant1	Low	5745	Peak	5650.000	-39.88 1	≤-27.00	---	---	PASS
				Peak	5700.000	-40.01	≤10.00	---	---	PASS
				Peak	5720.000	-39.83	≤15.60	---	---	PASS
				Peak	5725.000	-39.48	≤27.00	---	---	PASS
		High	5825	Peak	5850.000	-40.00 3	≤27.00	---	---	PASS
				Peak	5855.000	-38.19	≤15.60	---	---	PASS

				Peak	5875.000	-38.18	≤ 10.00	---	---	PASS
				Peak	5925.000	-39.47	≤ -27.00	- - -	- - -	PASS
11AC40SI SO	Ant1	Low	5755	Peak	5650.000	-41.26 7	≤ -27.00	---	---	PASS
				Peak	5700.000	-44.28	≤ 10.00	---	---	PASS
				Peak	5720.000	-40.27	≤ 15.60	---	---	PASS
				Peak	5725.000	-42.93	≤ 27.00	- - -	- - -	PASS
		High	5795	Peak	5850.000	-39.63 8	≤ 27.00	---	---	PASS
				Peak	5855.000	-40.05	≤ 15.60	---	---	PASS
				Peak	5875.000	-43.12	≤ 10.00	---	---	PASS
				Peak	5925.000	-42.34	≤ -27.00	- - -	- - -	PASS
11AC80SI SO	Ant1	Low	5775	Peak	5650.000	-41.06	≤ -27.00	---	---	PASS
				Peak	5700.000	-41.44	≤ 10.00	---	---	PASS
				Peak	5720.000	-40.21	≤ 15.60	---	---	PASS
				Peak	5725.000	-39.24	≤ 27.00	- - -	- - -	PASS
		High	5775	Peak	5850.000	-40.80 4	≤ 27.00	---	---	PASS
				Peak	5855.000	-37.21	≤ 15.60	---	---	PASS
				Peak	5875.000	-42.61	≤ 10.00	---	---	PASS
				Peak	5925.000	-42.64	≤ -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



11A_Ant1_High_5825_Peak

Frequency

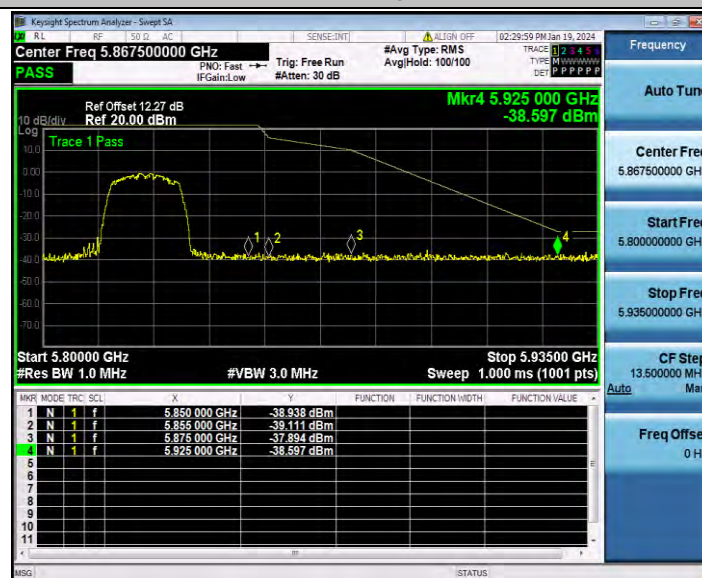
Auto Tune

Center Freq
5.86750000 GHzStart Freq
5.80000000 GHzStop Freq
5.93500000 GHzCF Step
13.500000 MHz
AutoFreq Offset
0 Hz

11N20SISO_Ant1_Low_5745_Peak



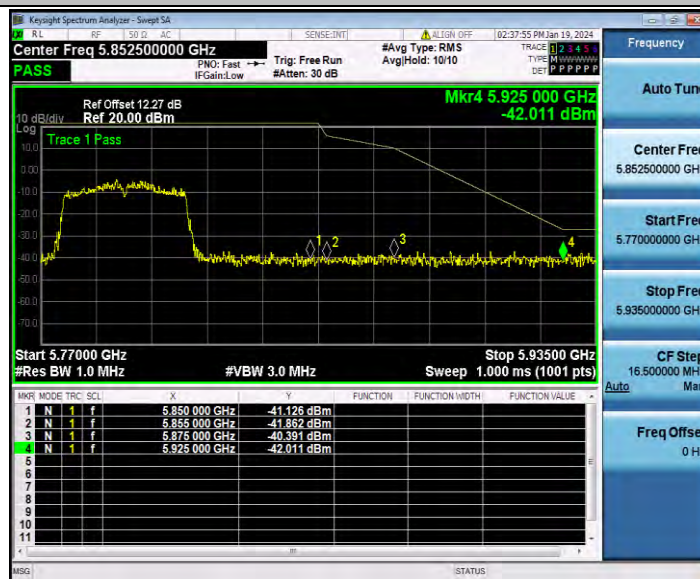
11N20SISO_Ant1_High_5825_Peak



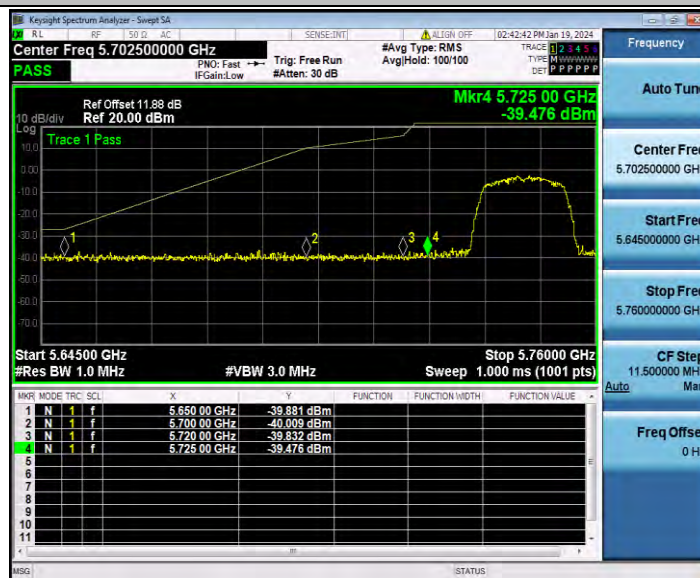
11N40SISO_Ant1_Low_5755_Peak



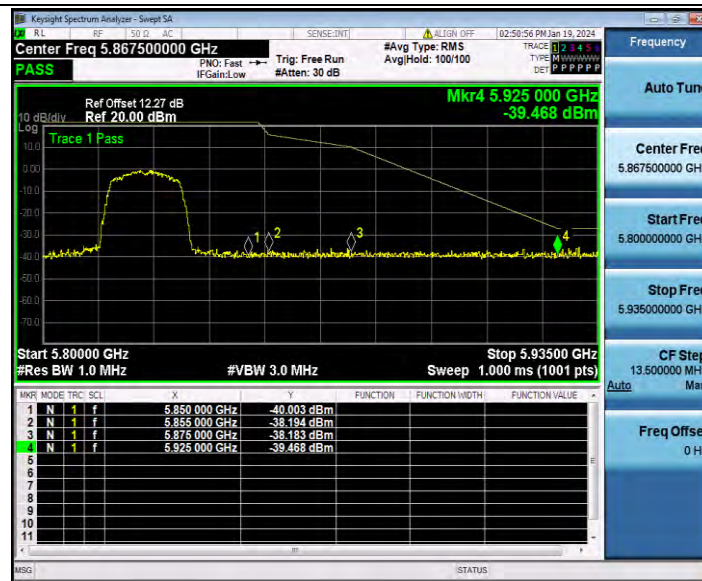
11N40SISO_Ant1_High_5795_Peak



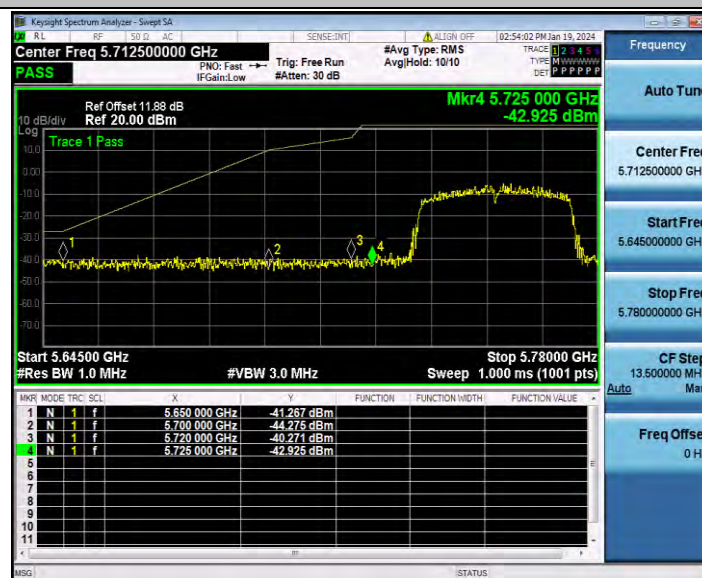
11AC20SISO_Ant1_Low_5745_Peak



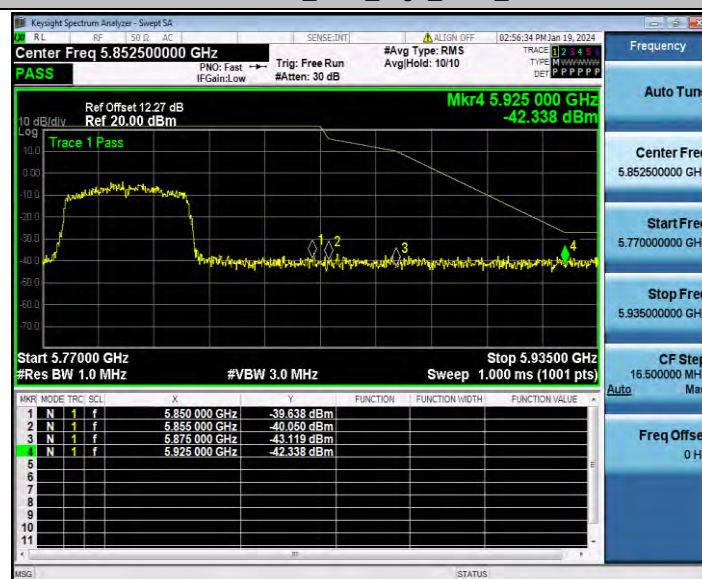
11AC20SISO_Ant1_High_5825_Peak



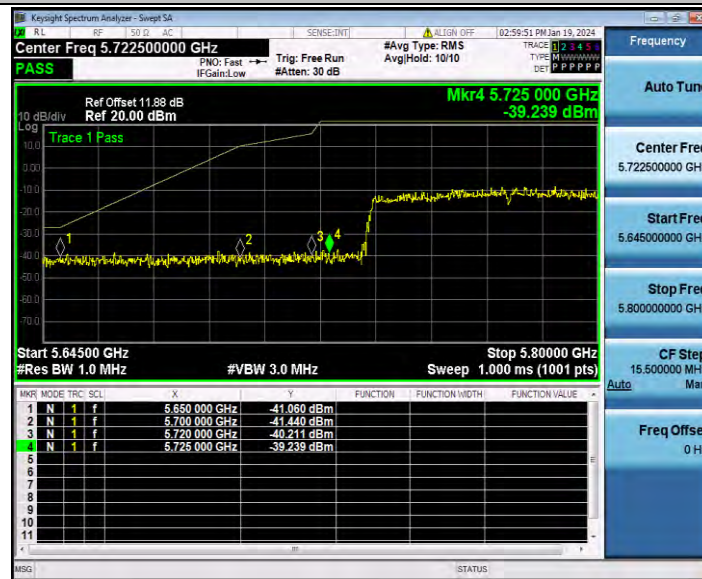
11AC40SISO_Ant1_Low_5755_Peak



11AC40SISO_Ant1_High_5795_Peak



11AC80SISO_Ant1_Low_5775_Peak



11AC80SISO_Ant1_High_5775_Peak

