

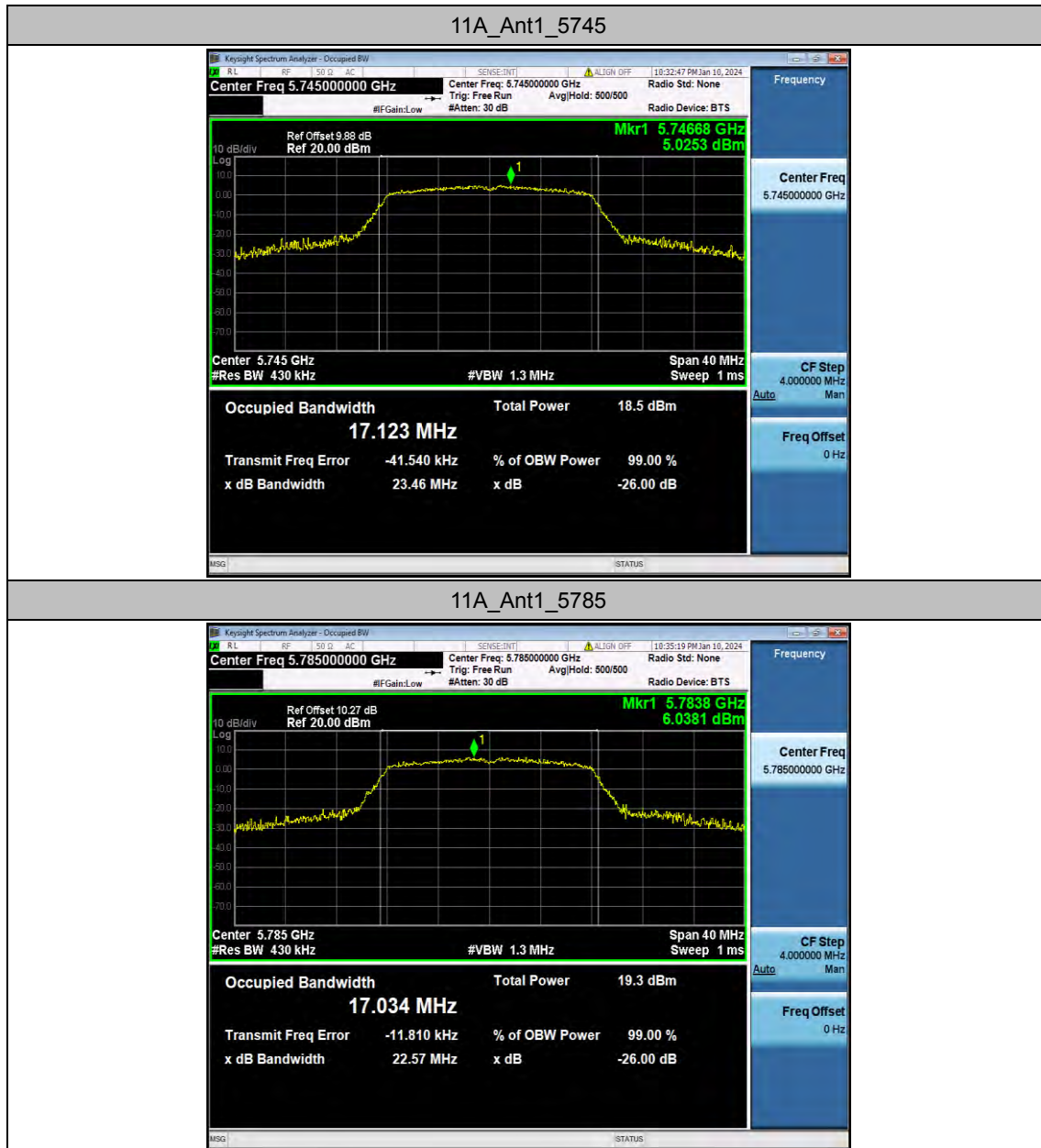
Case No. : <u>GTS20231206007-1-18</u>	
Ambient Condition: <u>23</u> °C, <u>48</u> %RH	
According Standard: ■Part15E	
Test Date: <u>2024.1.10</u>	Test Engineer: <u>Evan ouyang</u>

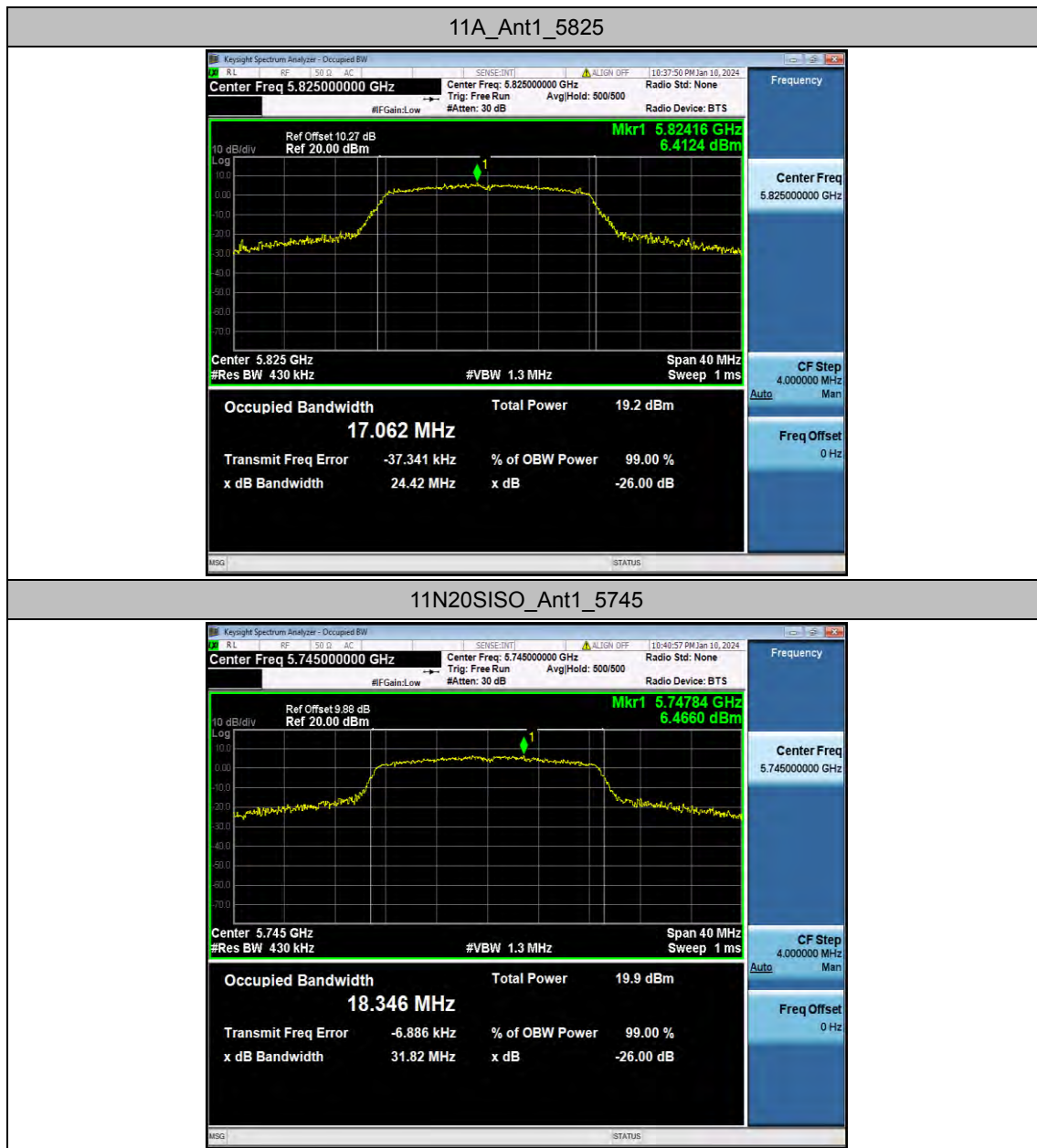
Appendix E.1: Occupied channel bandwidth

Test Result

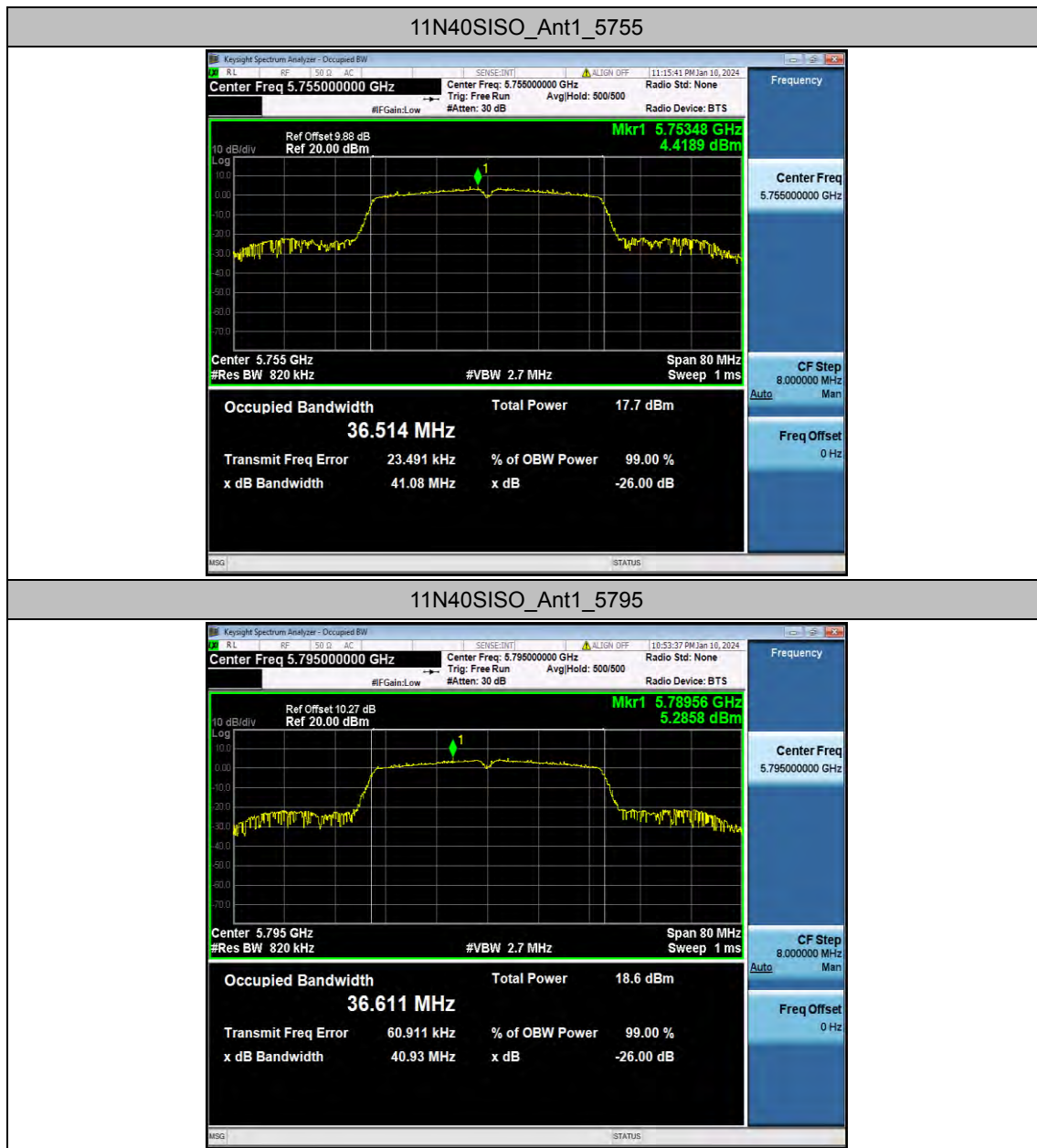
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	17.123	5736.3970	5753.5200	---	---
		5785	17.034	5776.4712	5793.5052	---	---
		5825	17.062	5816.4317	5833.4937	---	---
11N20SISO	Ant1	5745	18.346	5735.8201	5754.1661	---	---
		5785	18.204	5775.8949	5794.0989	---	---
		5825	18.317	5815.8005	5834.1175	---	---
11N40SISO	Ant1	5755	36.514	5736.7665	5773.2805	---	---
		5795	36.611	5776.7554	5813.3664	---	---
11AC20SISO	Ant1	5745	17.973	5736.0083	5753.9813	---	---
		5785	18.033	5775.9899	5794.0229	---	---
		5825	17.963	5816.0217	5833.9847	---	---
11AC40SISO	Ant1	5755	36.354	5736.8928	5773.2468	---	---
		5795	36.350	5776.8686	5813.2186	---	---
11AC80SISO	Ant1	5775	75.470	5737.3314	5812.8014	---	---

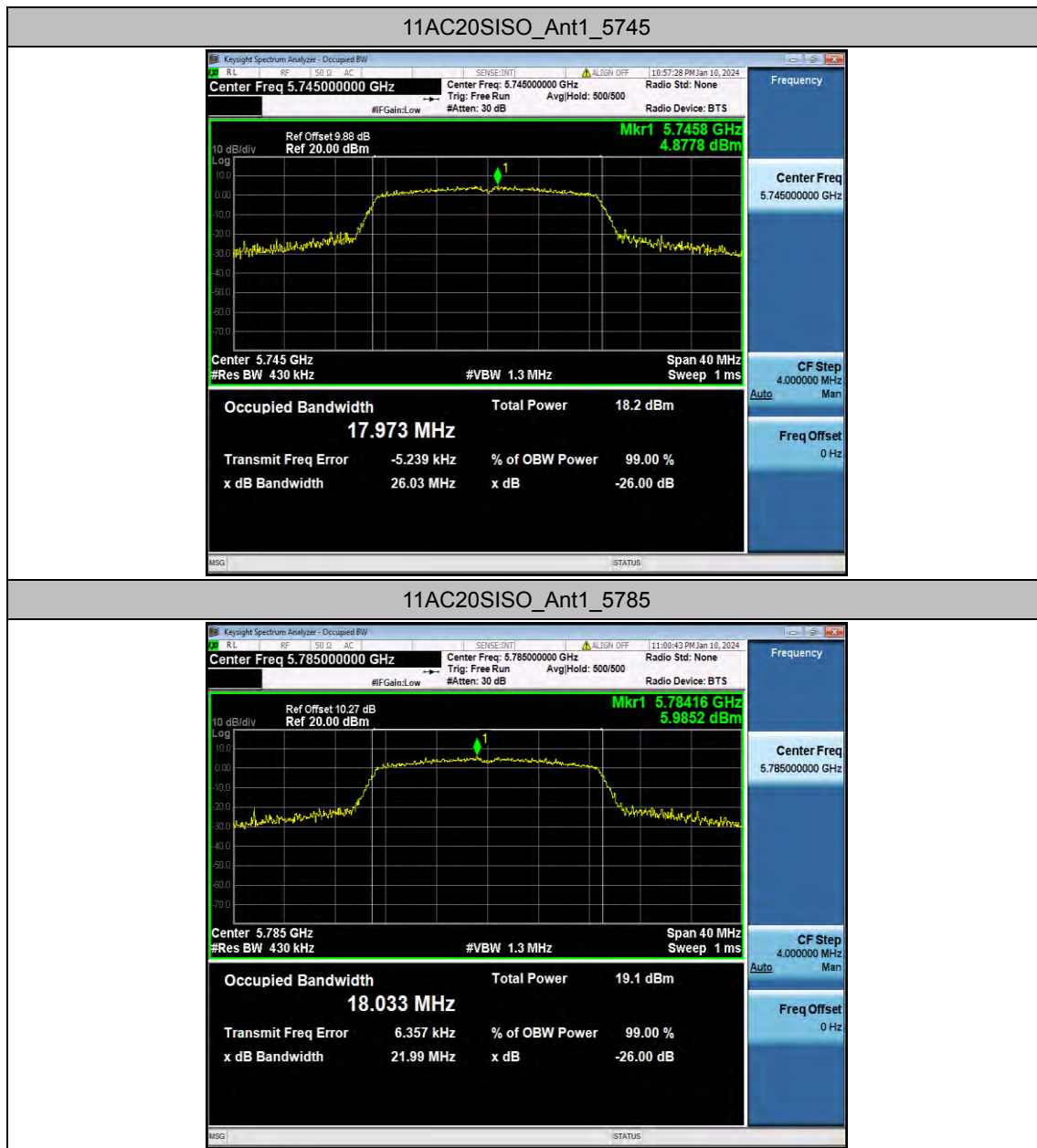
Test Graphs

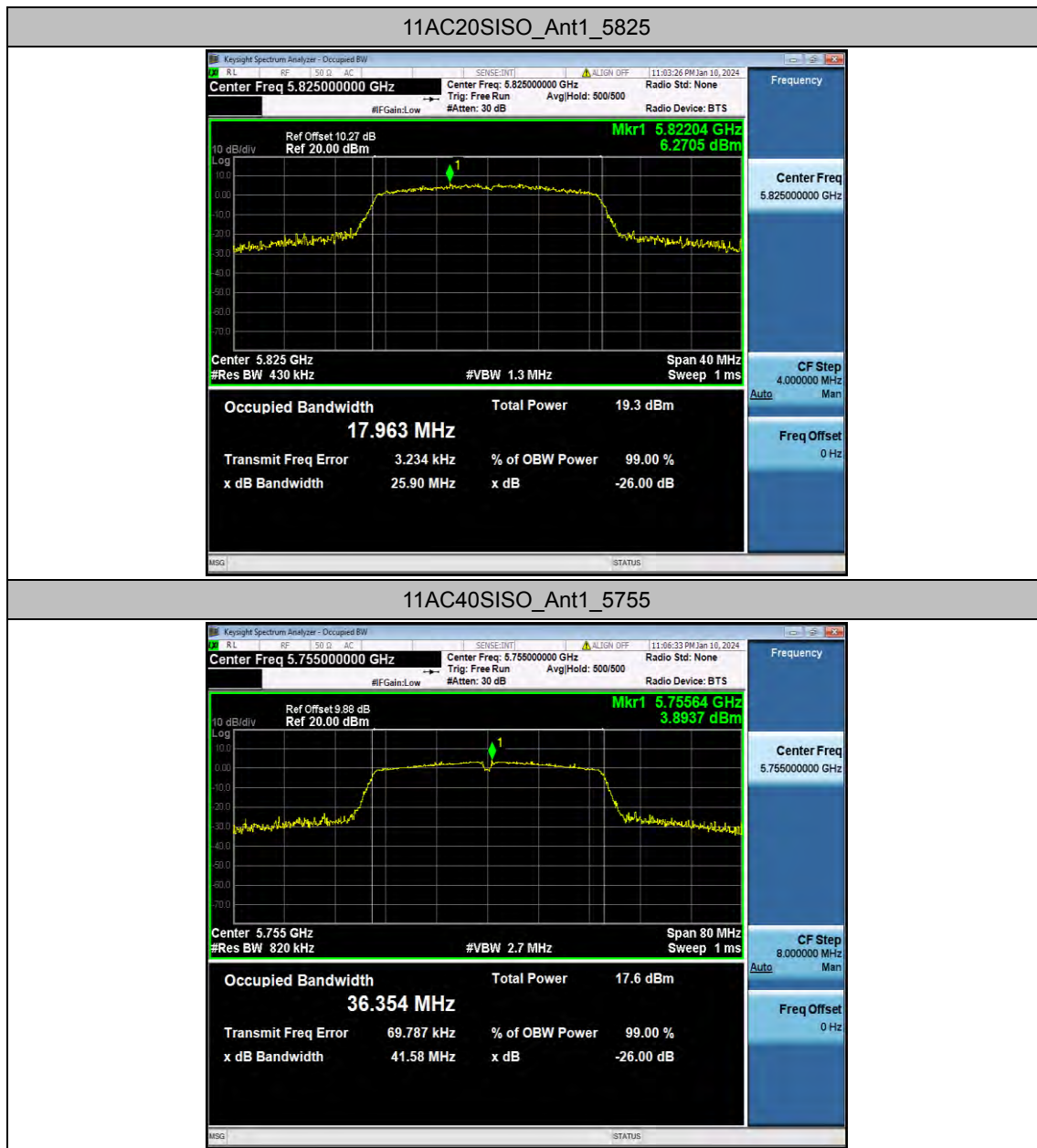


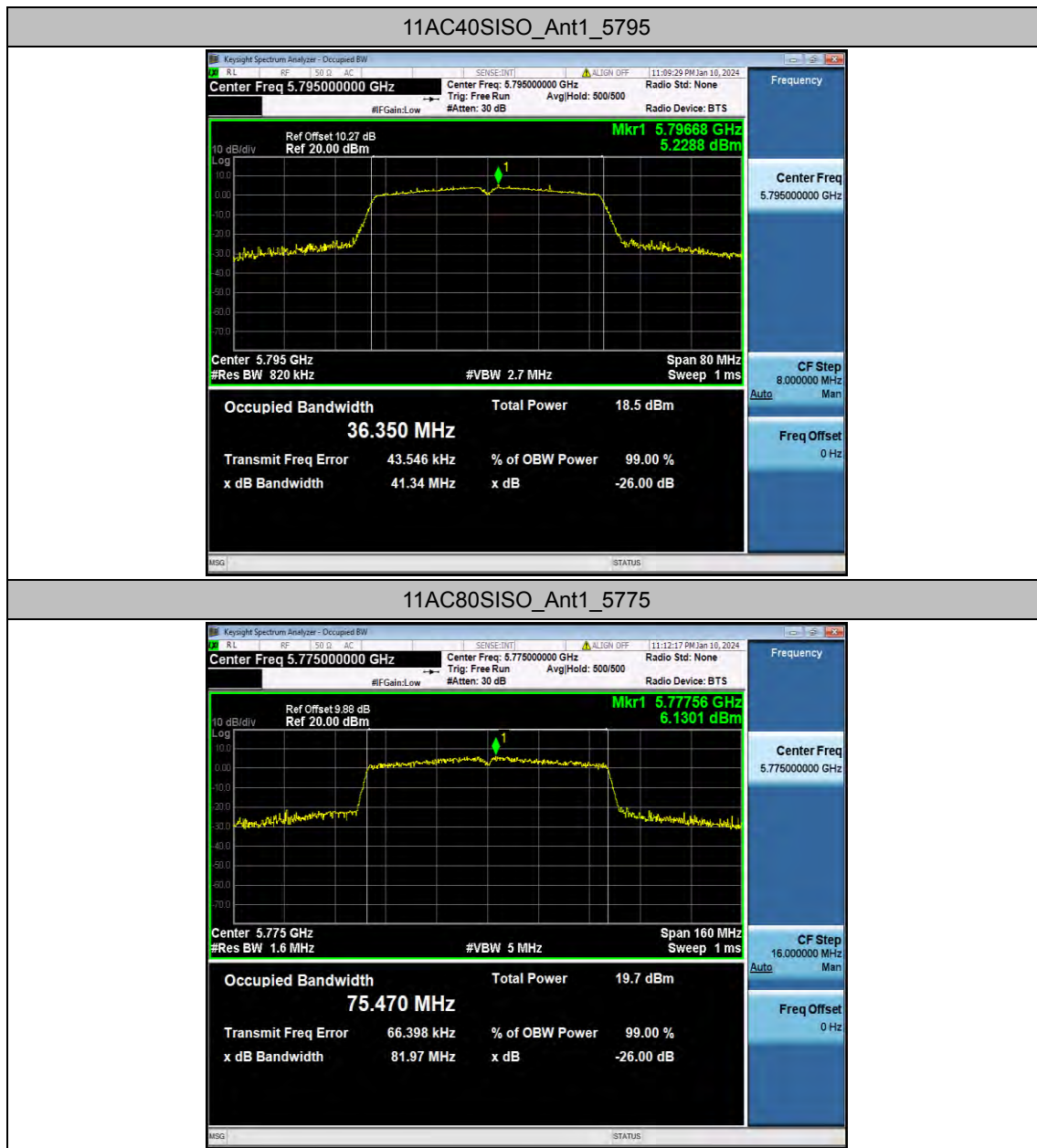










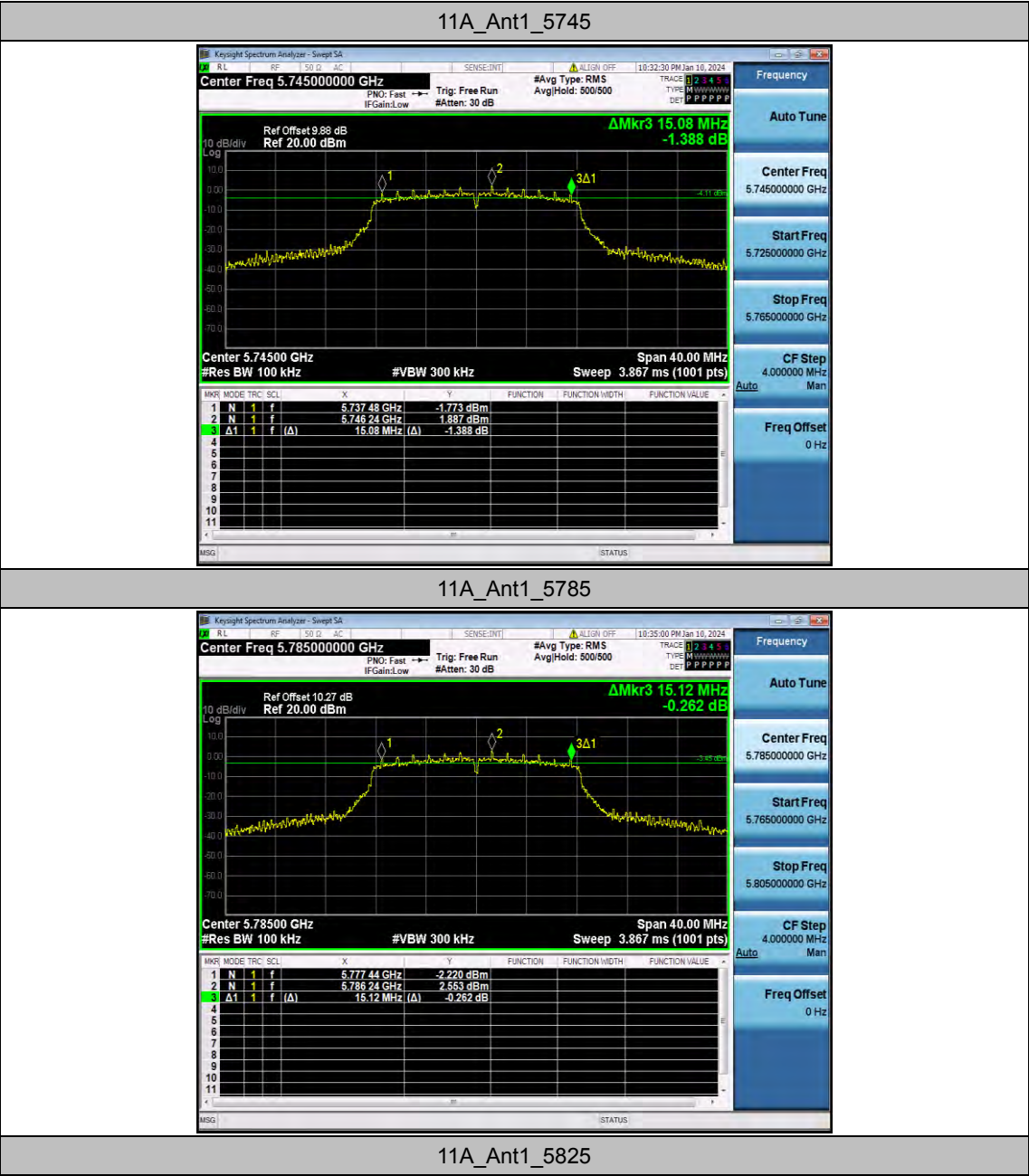


Appendix E.2: Min emission bandwidth

Test Result B4

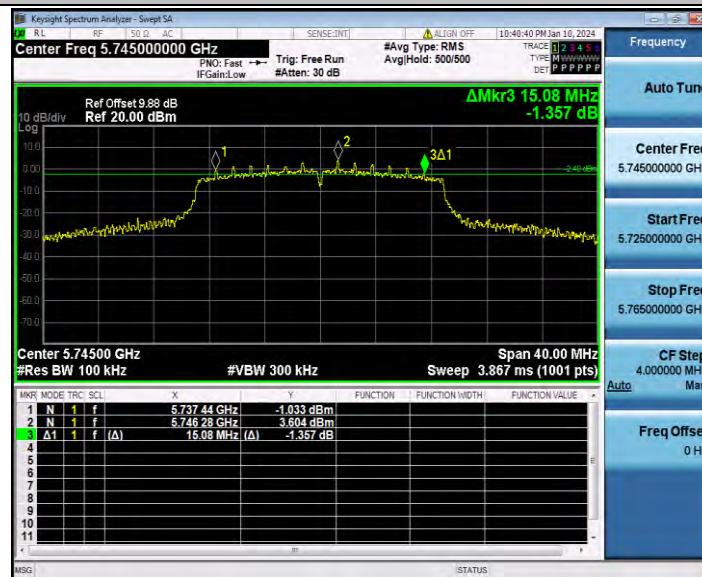
TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.080	5737.480	5752.560	0.5	PASS
		5785	15.120	5777.440	5792.560	0.5	PASS
		5825	15.120	5817.440	5832.560	0.5	PASS
11N20SISO	Ant1	5745	15.080	5737.440	5752.520	0.5	PASS
		5785	15.080	5777.440	5792.520	0.5	PASS
		5825	15.120	5817.440	5832.560	0.5	PASS
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	15.040	5737.440	5752.480	0.5	PASS
		5785	15.080	5777.480	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	75.200	5737.400	5812.600	0.5	PASS

Test Graphs B4

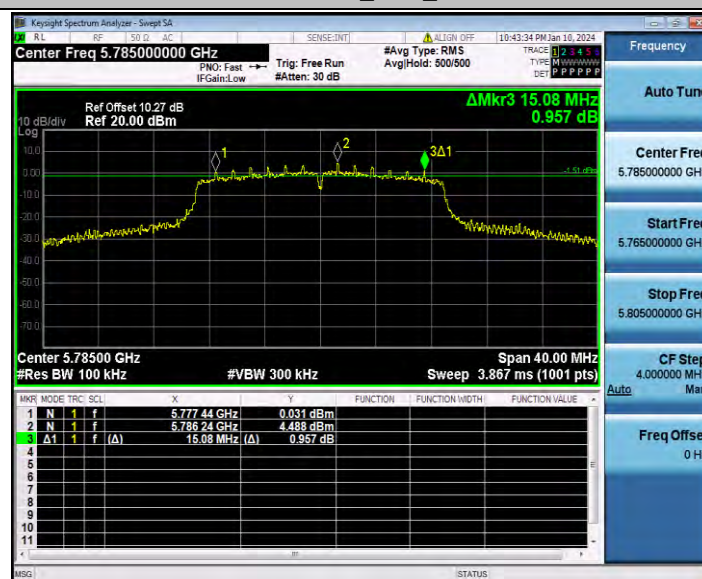




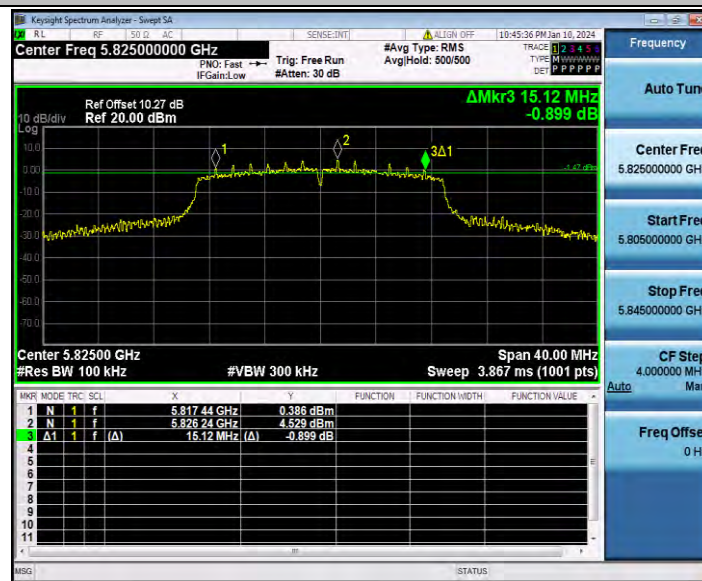
11N20SISO_Ant1_5745



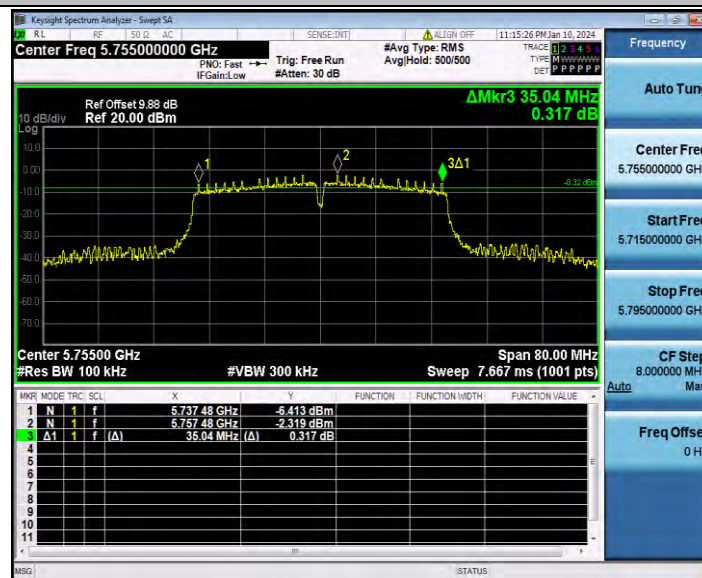
11N20SISO_Ant1_5785



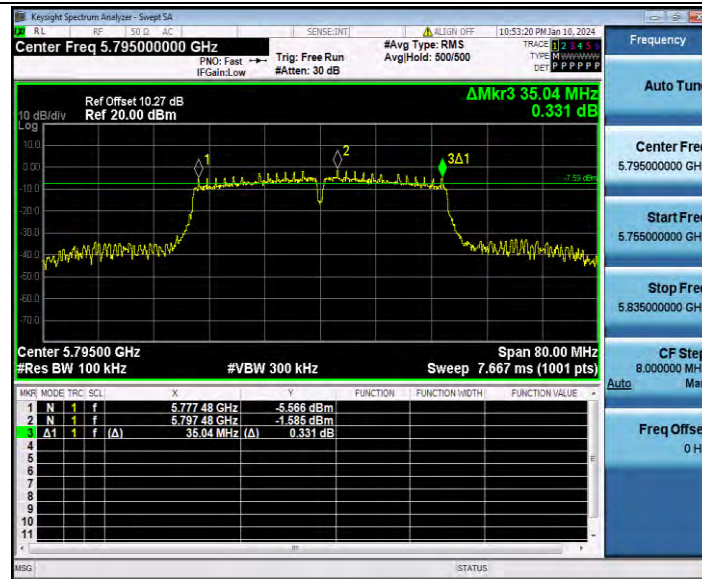
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



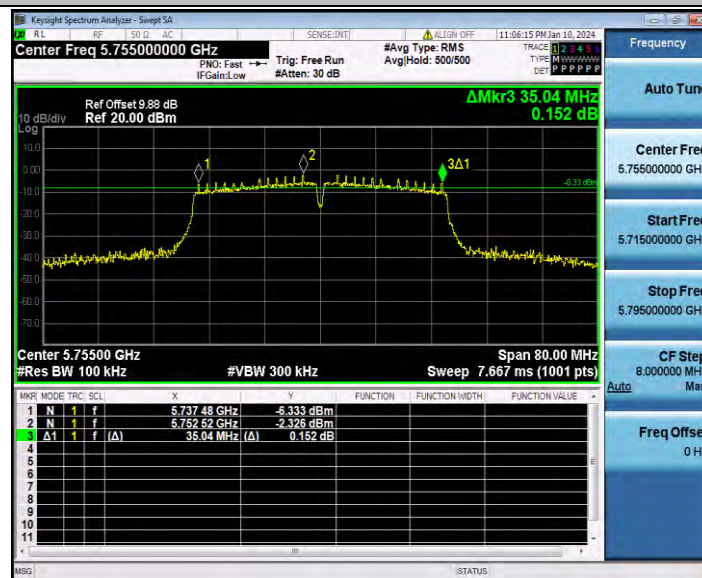
11AC20SISO_Ant1_5785



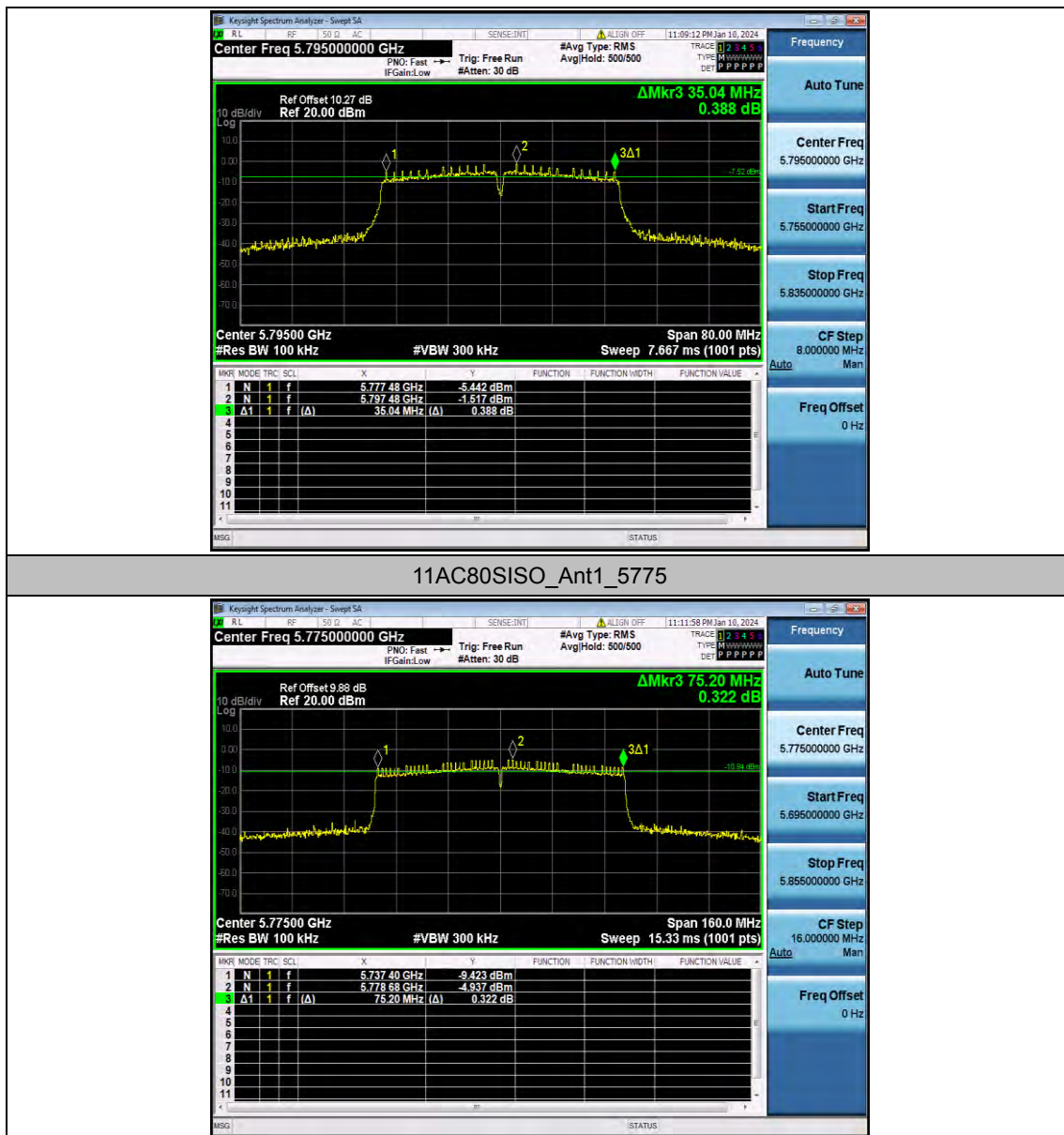
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795

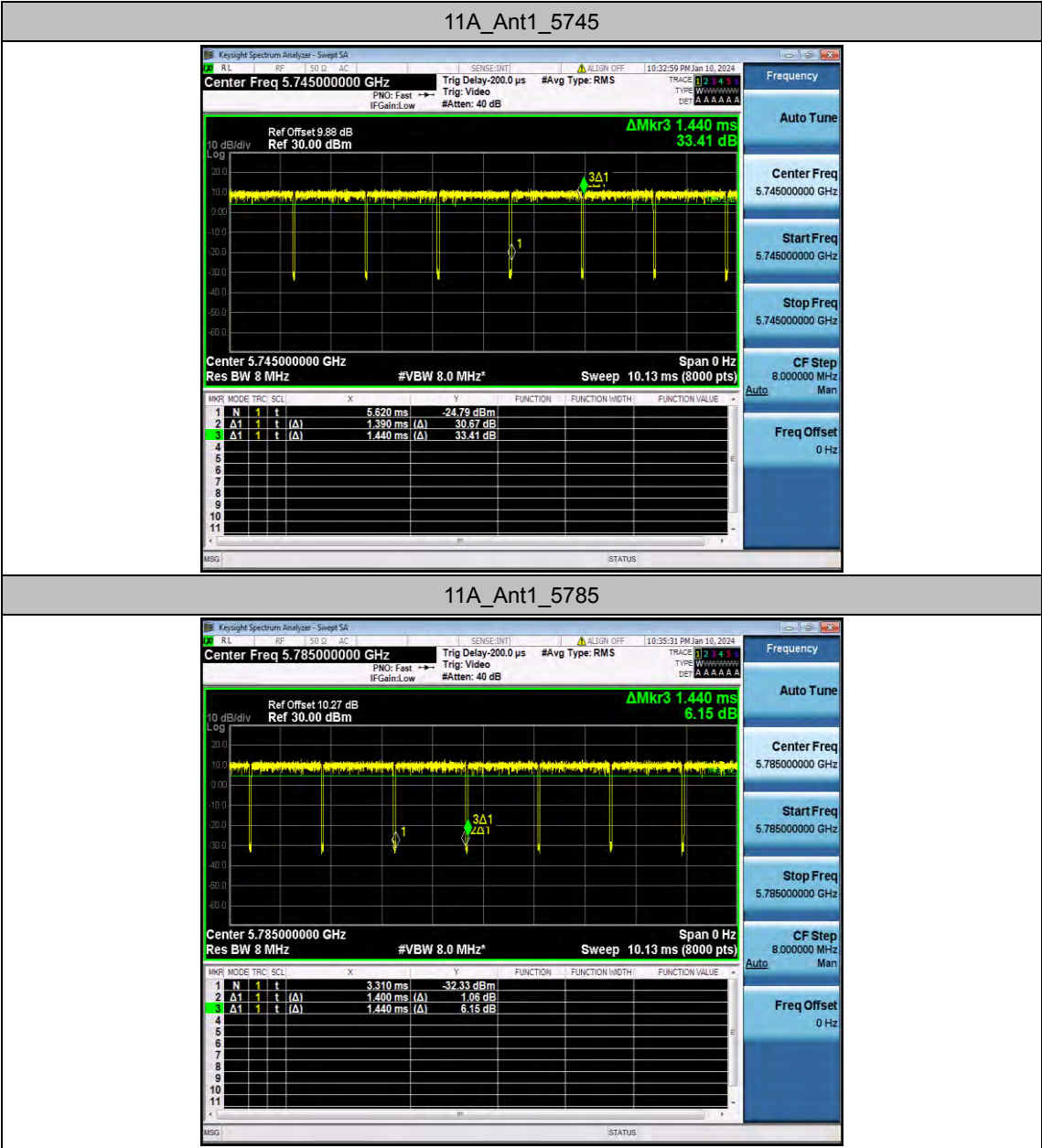


Appendix E.3: Duty Cycle

Test Result

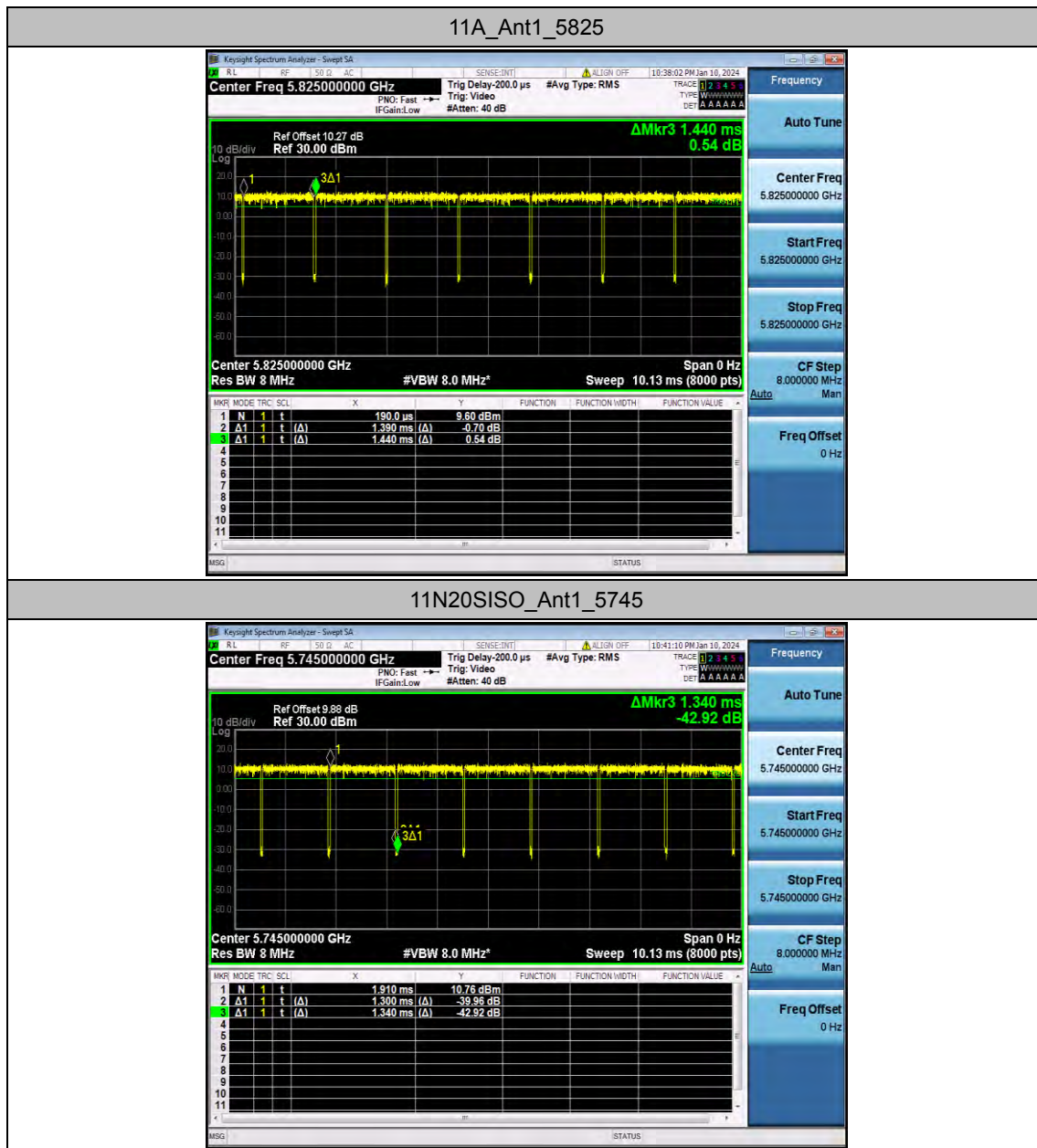
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5745	1.39	1.44	96.53	0.15	0.72
		5785	1.40	1.44	97.22	0.12	0.71
		5825	1.39	1.44	96.53	0.15	0.72
11N20SISO	Ant1	5745	1.30	1.34	97.01	0.13	0.77
		5785	1.29	1.34	96.27	0.17	0.78
		5825	1.30	1.35	96.30	0.16	0.77
11N40SISO	Ant1	5755	0.64	0.69	92.75	0.33	1.56
		5795	0.65	0.70	92.86	0.32	1.54
11AC20SISO	Ant1	5745	1.31	1.35	97.04	0.13	0.76
		5785	1.31	1.35	97.04	0.13	0.76
		5825	1.31	1.35	97.04	0.13	0.76
11AC40SISO	Ant1	5755	0.65	0.70	92.86	0.32	1.54
		5795	0.65	0.70	92.86	0.32	1.54
11AC80SISO	Ant1	5775	0.32	0.37	86.49	0.63	3.13

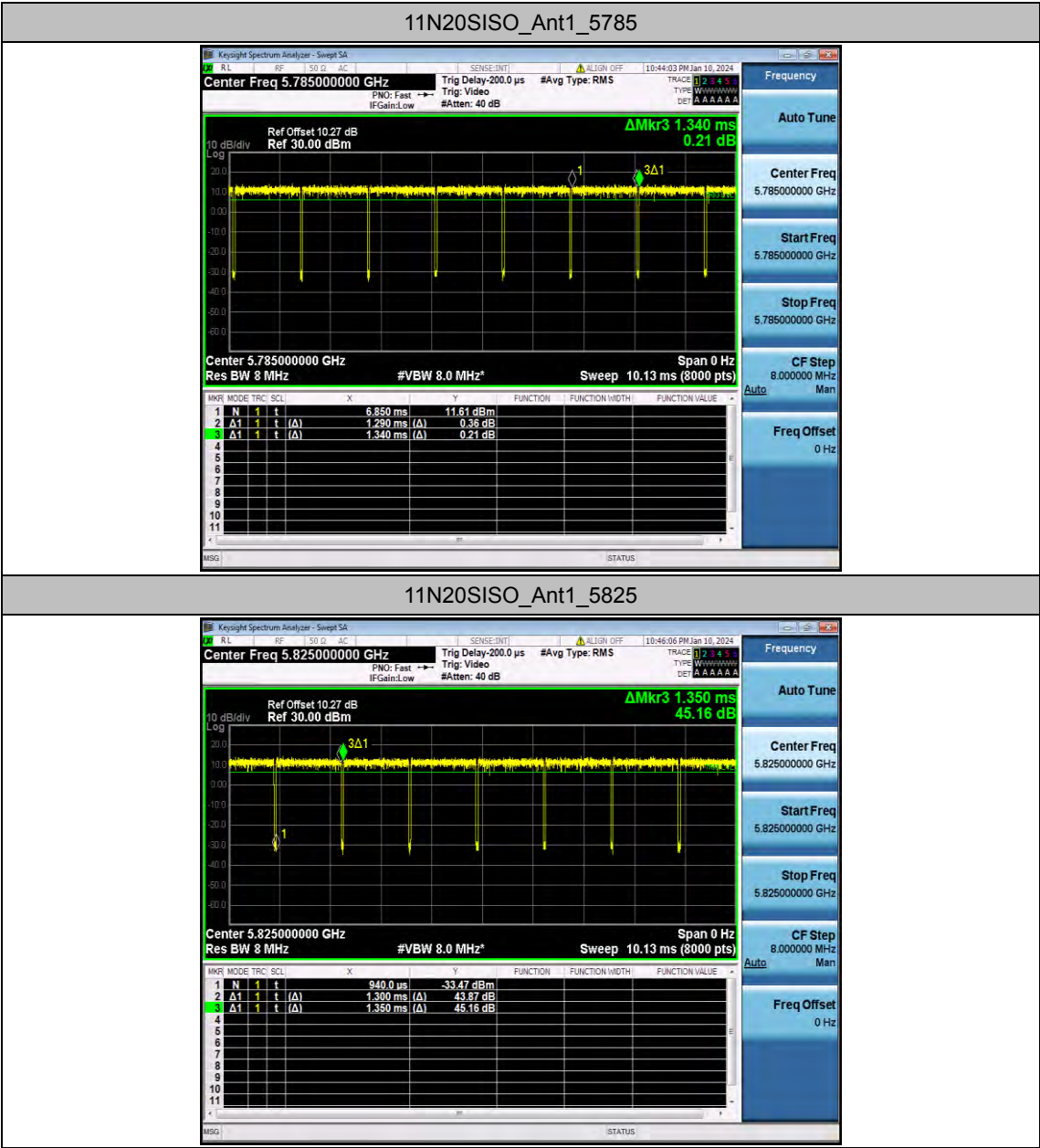
Test Graphs



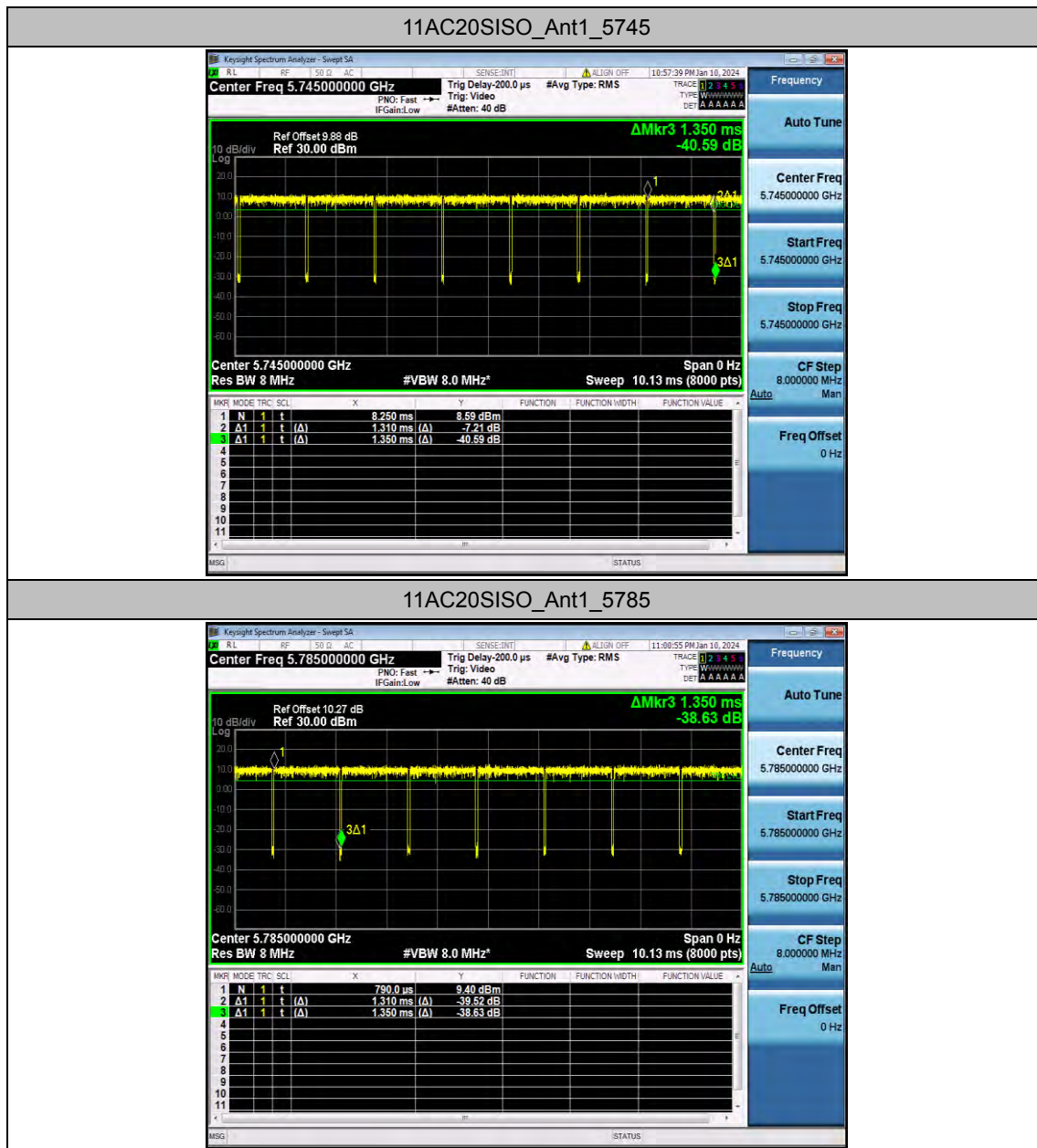
11A_Ant1_5785

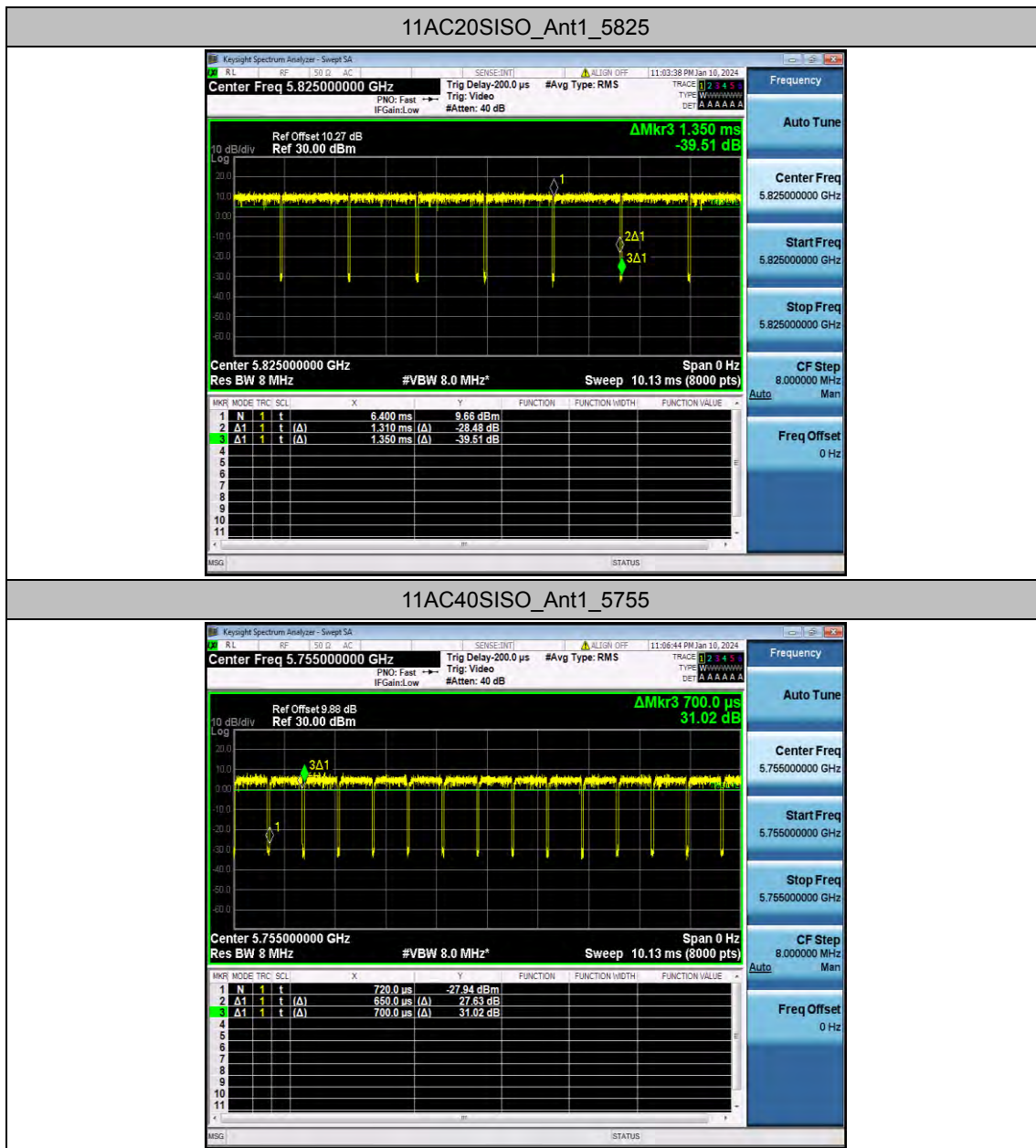
Frequency
Auto Tune
Center Freq 5.785000000 GHz
Start Freq 5.785000000 GHz
Stop Freq 5.785000000 GHz
CF Step 8.000000 MHz
Freq Offset 0 Hz

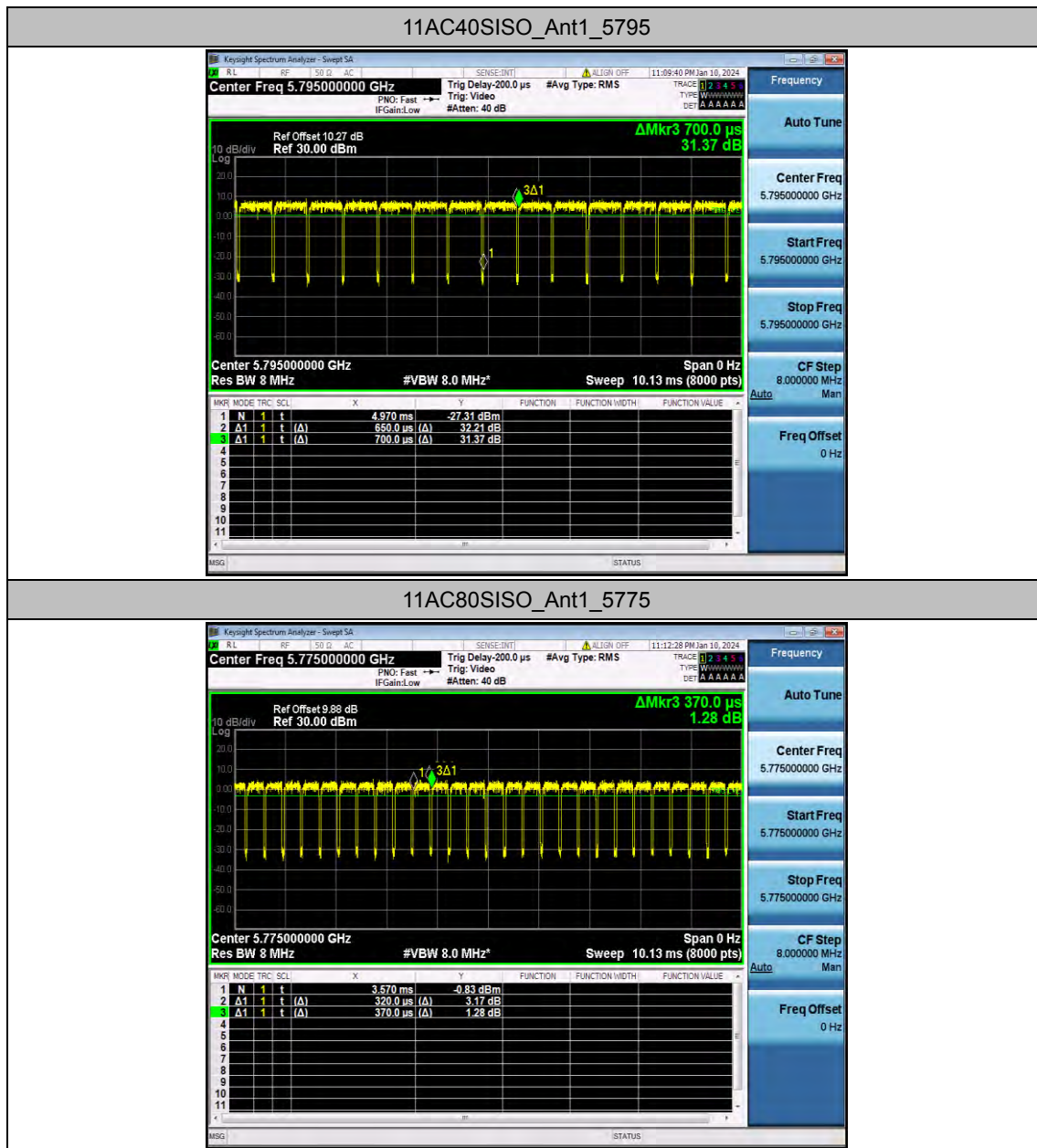












Appendix E.4: Maximum conducted output power

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	11.54	96.53	0.15	11.69	≤30.00	PASS
		5785	12.39	97.22	0.12	12.51	≤30.00	PASS
		5825	12.37	96.53	0.15	12.52	≤30.00	PASS
11N20SISO	Ant1	5745	12.98	97.01	0.13	13.11	≤30.00	PASS
		5785	13.86	96.27	0.17	14.03	≤30.00	PASS
		5825	14.00	96.30	0.16	14.16	≤30.00	PASS
11N40SISO	Ant1	5755	10.01	92.75	0.33	10.34	≤30.00	PASS
		5795	11.00	92.86	0.32	11.32	≤30.00	PASS
11AC20SISO	Ant1	5745	11.30	97.04	0.13	11.43	≤30.00	PASS
		5785	12.14	97.04	0.13	12.27	≤30.00	PASS
		5825	12.36	97.04	0.13	12.49	≤30.00	PASS
11AC40SISO	Ant1	5755	10.06	92.86	0.32	10.38	≤30.00	PASS
		5795	10.95	92.86	0.32	11.27	≤30.00	PASS
11AC80SISO	Ant1	5775	10.23	86.49	0.63	10.86	≤30.00	PASS

Note:

1. The Duty Cycle Factor is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.

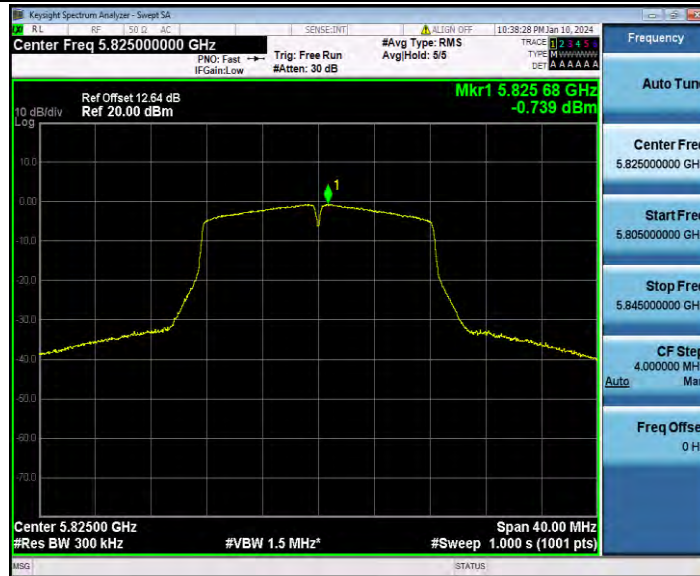
Appendix E.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-1.68	≤30.00	PASS
		5785	-0.64	≤30.00	PASS
		5825	-0.74	≤30.00	PASS
11N20SISO	Ant1	5745	-0.37	≤30.00	PASS
		5785	0.48	≤30.00	PASS
		5825	0.73	≤30.00	PASS
11N40SISO	Ant1	5755	-5.81	≤30.00	PASS
		5795	-5.03	≤30.00	PASS
11AC20SISO	Ant1	5745	-2.07	≤30.00	PASS
		5785	-1.17	≤30.00	PASS
		5825	-0.81	≤30.00	PASS
11AC40SISO	Ant1	5755	-5.82	≤30.00	PASS
		5795	-5.05	≤30.00	PASS
11AC80SISO	Ant1	5775	-8.49	≤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.

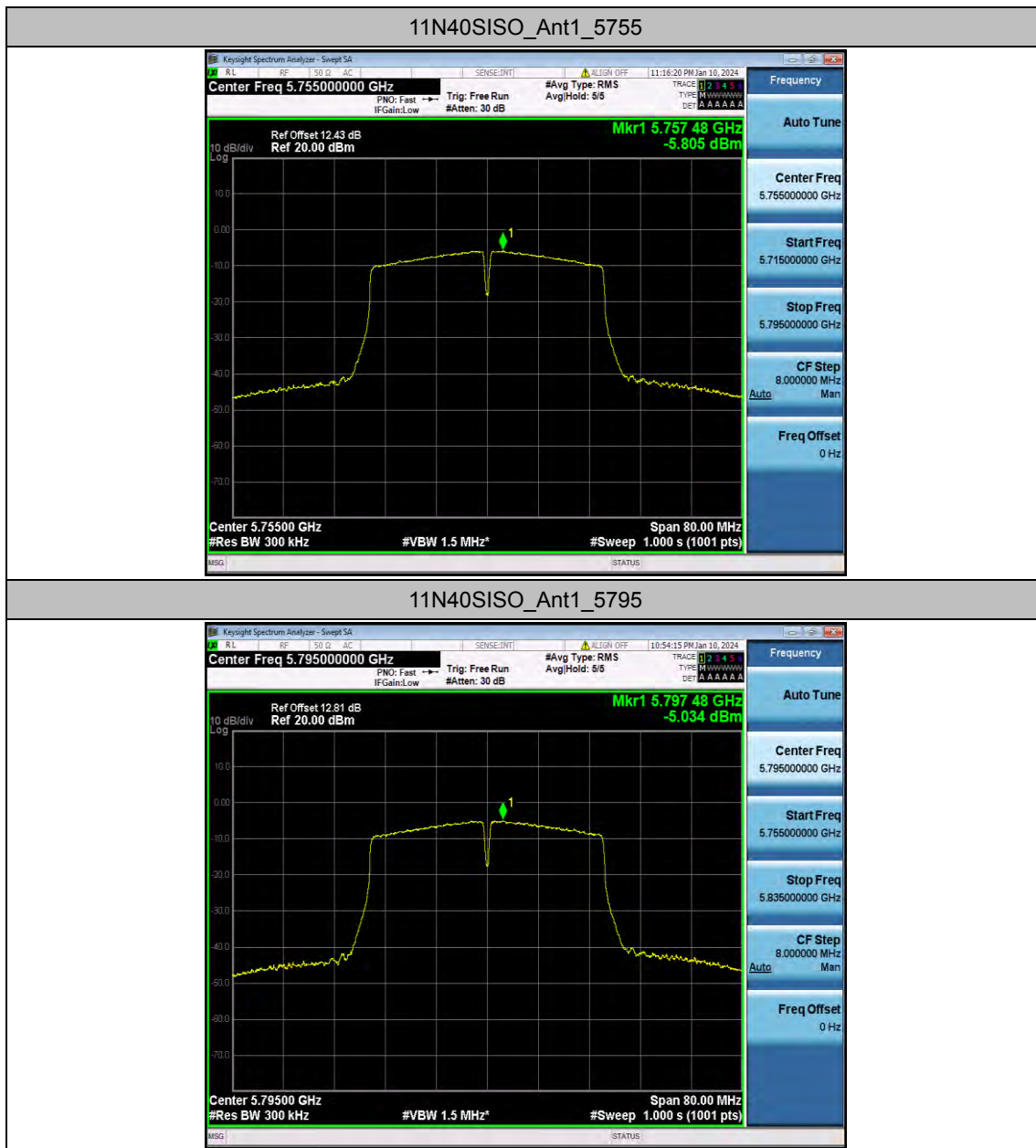
11A_Ant1_5825



11N20SISO_Ant1_5745

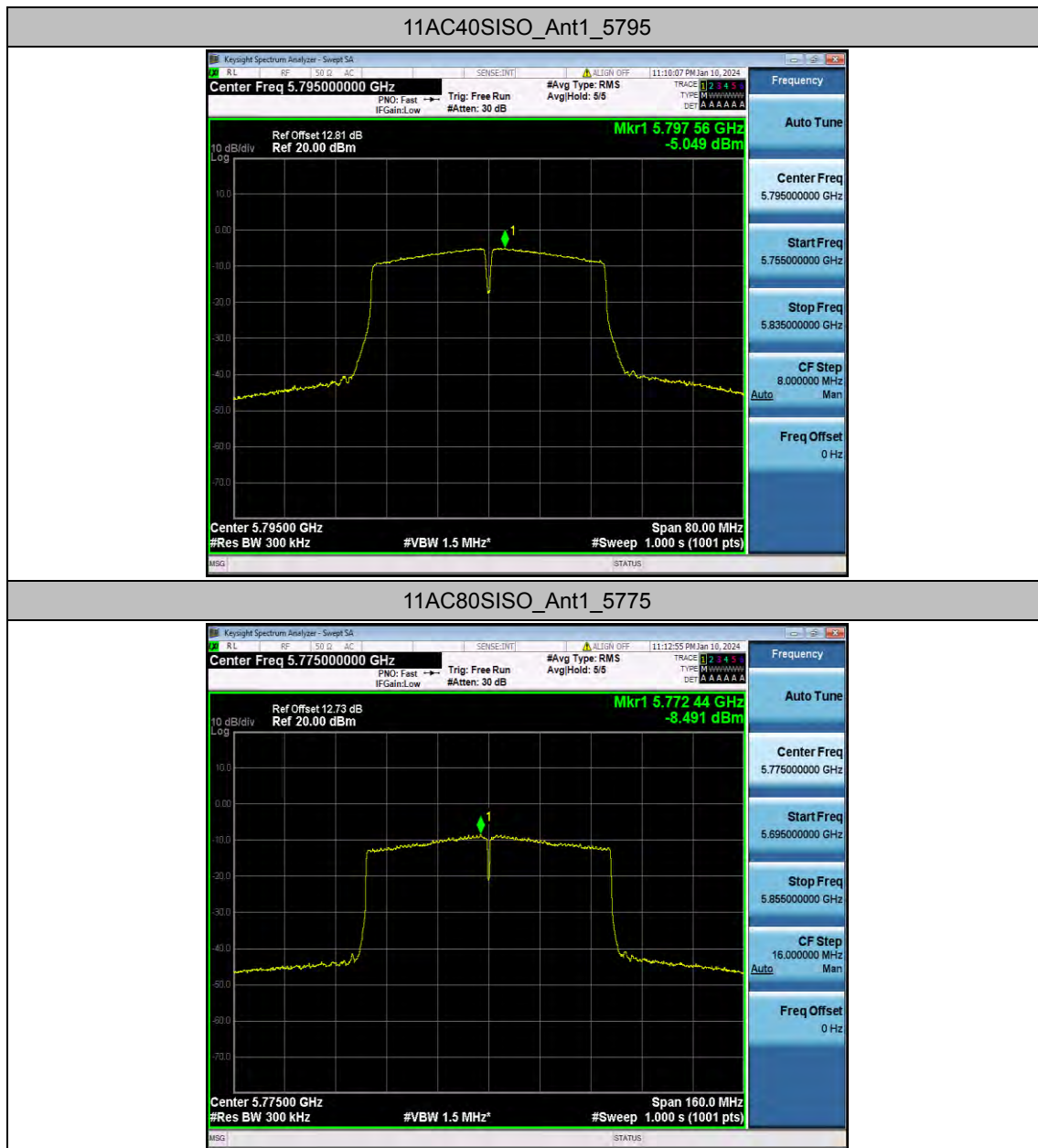












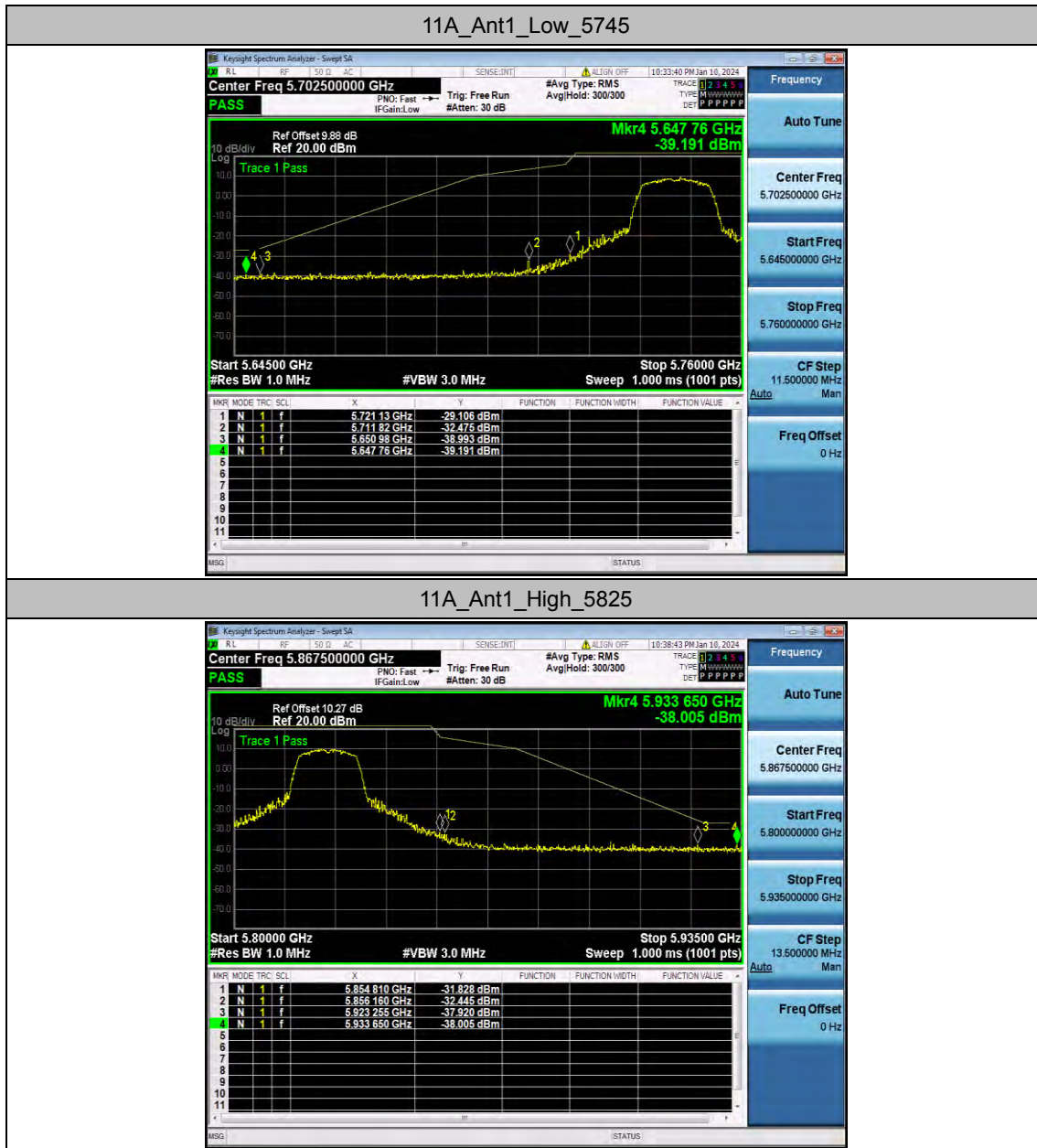
Appendix E.6: Band edge measurements

Test Result B4

TestMode	Antenna	ChName	Freq(MHz)	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-38.99	≤-26.27	PASS
				5700~5720	-32.48	≤13.31	PASS
				5720~5725	-29.11	≤18.18	PASS
				5760~5650	-39.19	≤-27	PASS
		High	5825	5850~5855	-31.83	≤16.03	PASS
				5855~5875	-32.45	≤15.28	PASS
				5875~5925	-37.92	≤-25.71	PASS
				5925~5935	-38.01	≤-27	PASS
11N20SI SO	Ant1	Low	5745	5650~5700	-40.23	≤-26.53	PASS
				5700~5720	-21.95	≤15.37	PASS
				5720~5725	-24.94	≤15.82	PASS
				5760~5650	-38.2	≤-27	PASS
		High	5825	5850~5855	-27.69	≤15.73	PASS
				5855~5875	-31.4	≤13.46	PASS
				5875~5925	-38.99	≤-26.51	PASS
				5925~5935	-37.96	≤-27	PASS
11N40SI SO	Ant1	Low	5755	5650~5700	-40.15	≤-26.60	PASS
				5700~5720	-22.62	≤15.47	PASS
				5720~5725	-22.16	≤17.58	PASS
				5780~5650	-38.64	≤-27	PASS
		High	5795	5850~5855	-38.93	≤15.66	PASS
				5855~5875	-37.86	≤10.62	PASS
				5875~5925	-38.86	≤-26.46	PASS
				5925~5935	-38.48	≤-27	PASS
11AC20S ISO	Ant1	Low	5745	5650~5700	-40.06	≤-26.36	PASS
				5700~5720	-30.27	≤15.30	PASS
				5720~5725	-29.33	≤16.87	PASS
				5760~5650	-38.23	≤-27	PASS
		High	5825	5850~5855	-31.45	≤18.19	PASS
				5855~5875	-30.87	≤15.05	PASS
				5875~5925	-39.16	≤-26.01	PASS
				5925~5935	-38.29	≤-27	PASS
11AC40S ISO	Ant1	Low	5755	5650~5700	-39.41	≤-26.60	PASS
				5700~5720	-29.02	≤13.08	PASS
				5720~5725	-26.96	≤16.04	PASS
				5780~5650	-39.06	≤-27	PASS

		High	5795	5850~5855	-35.92	≤ 16.03	PASS
				5855~5875	-37.35	≤ 11.22	PASS
				5875~5925	-39.93	≤ -26.71	PASS
				5925~5935	-38.64	≤ -27	PASS
11AC80S ISO	Ant1	Low	5775	5650~5700	-39.26	≤ -26.34	PASS
				5700~5720	-28.43	≤ 10.57	PASS
				5720~5725	-28.64	≤ 16.00	PASS
				5800~5650	-38.36	≤ -27	PASS
		High	5775	5850~5855	-30.1	≤ 15.84	PASS
				5855~5875	-28.24	≤ 14.90	PASS
				5875~5925	-39.59	≤ -26.87	PASS
				5925~5935	-38.45	≤ -27	PASS

Test Graphs B4







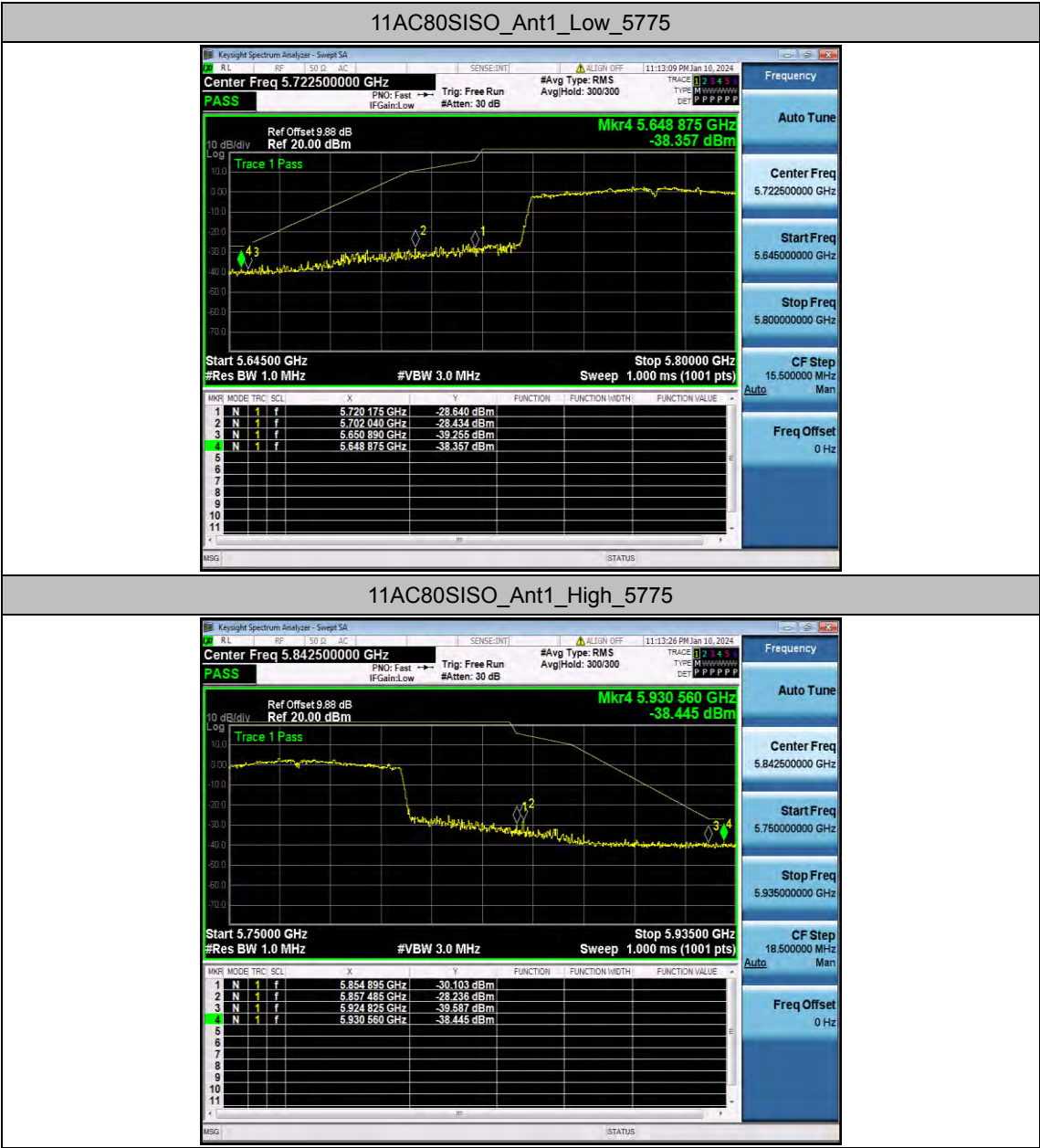
11AC20SISO_Ant1_Low_5745



11AC20SISO_Ant1_High_5825





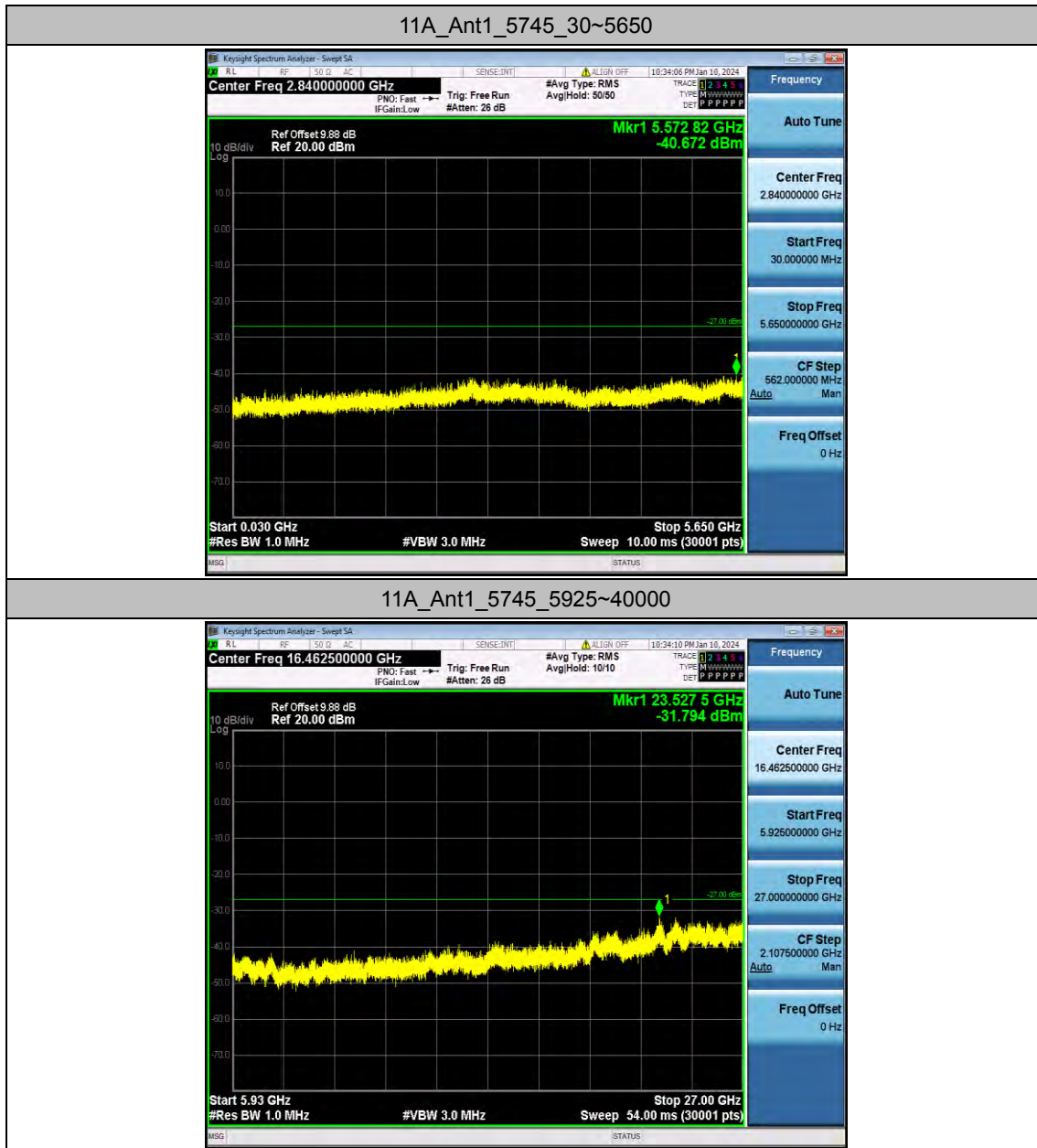


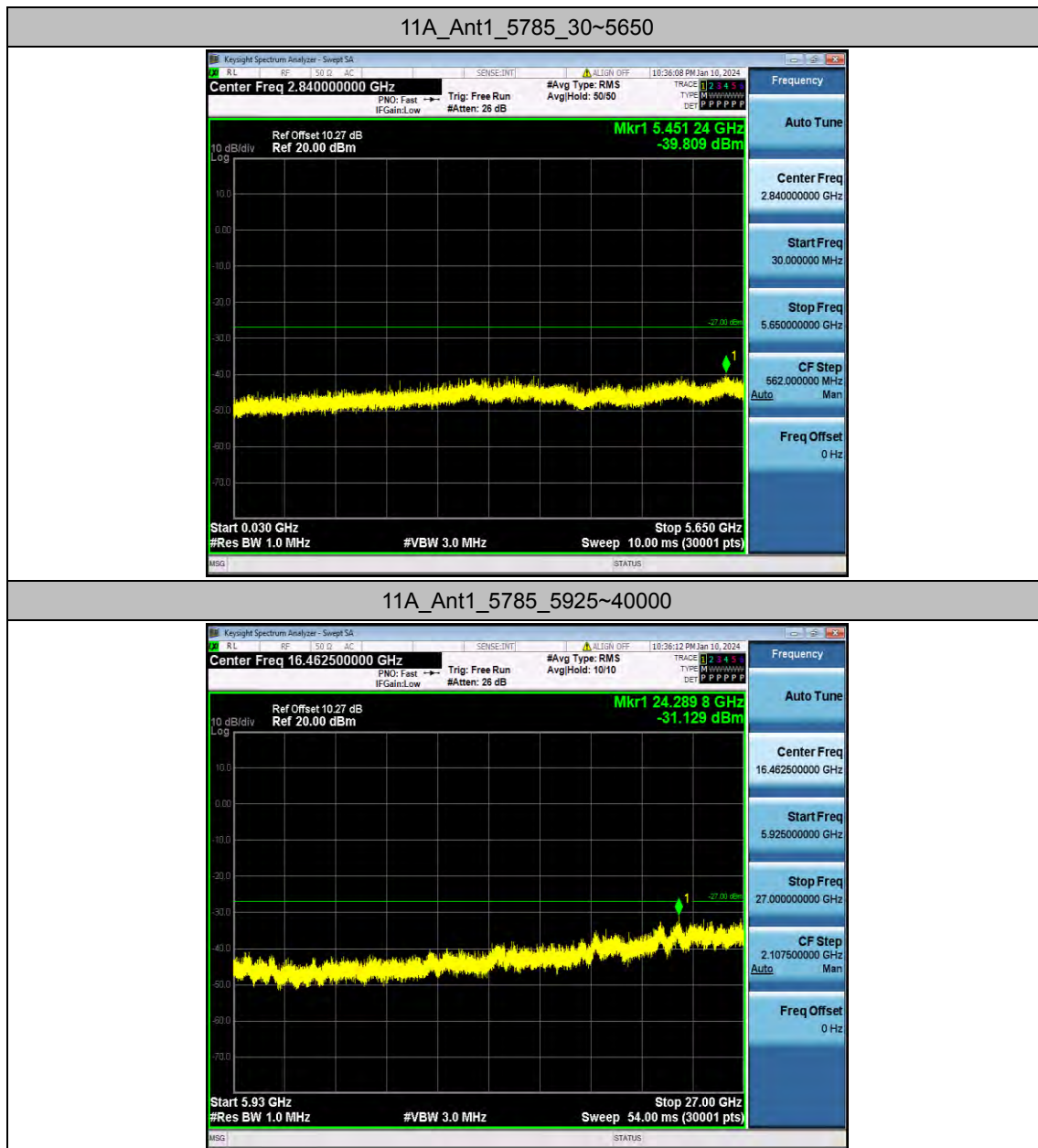
Appendix E.7: Conducted Spurious Emission

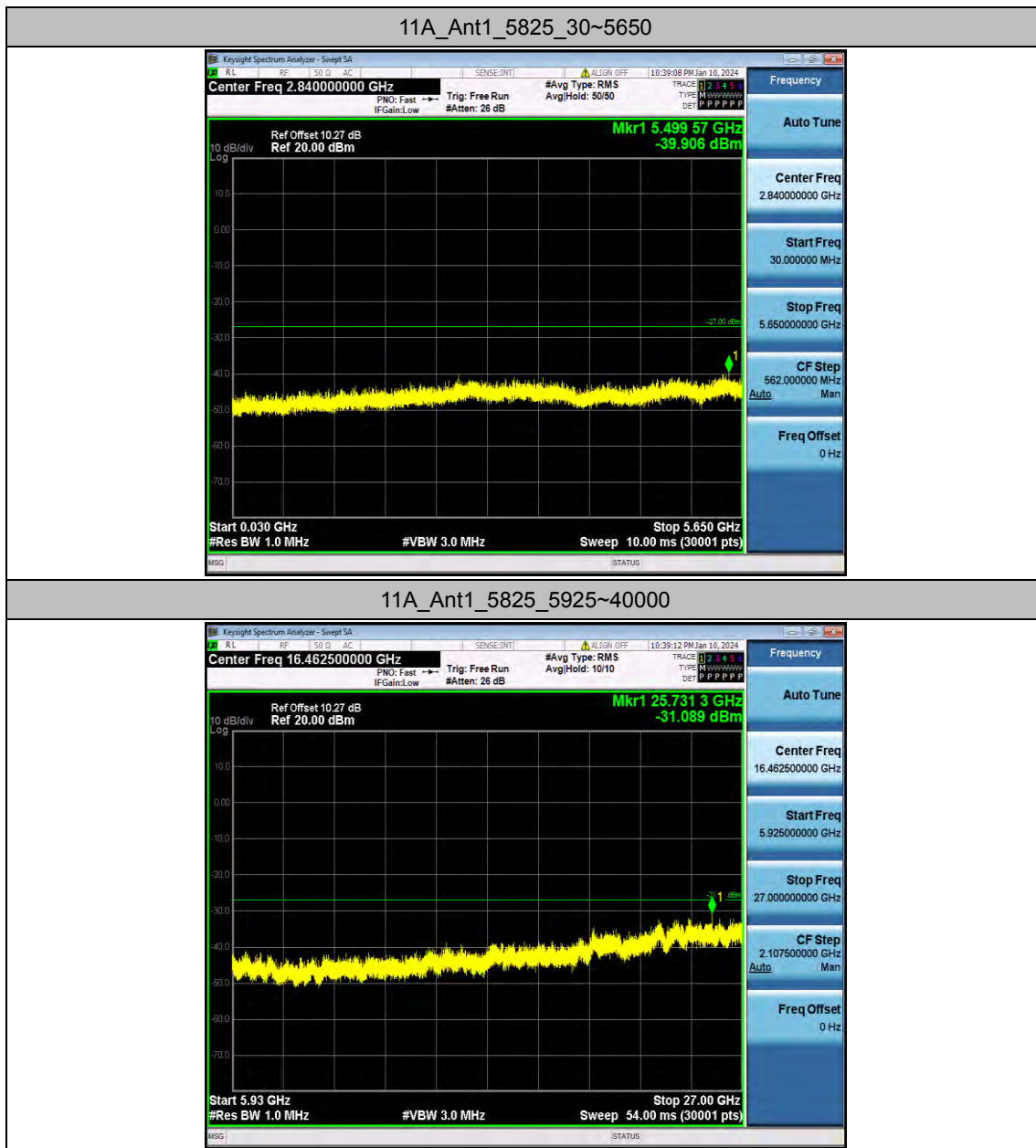
Test Result

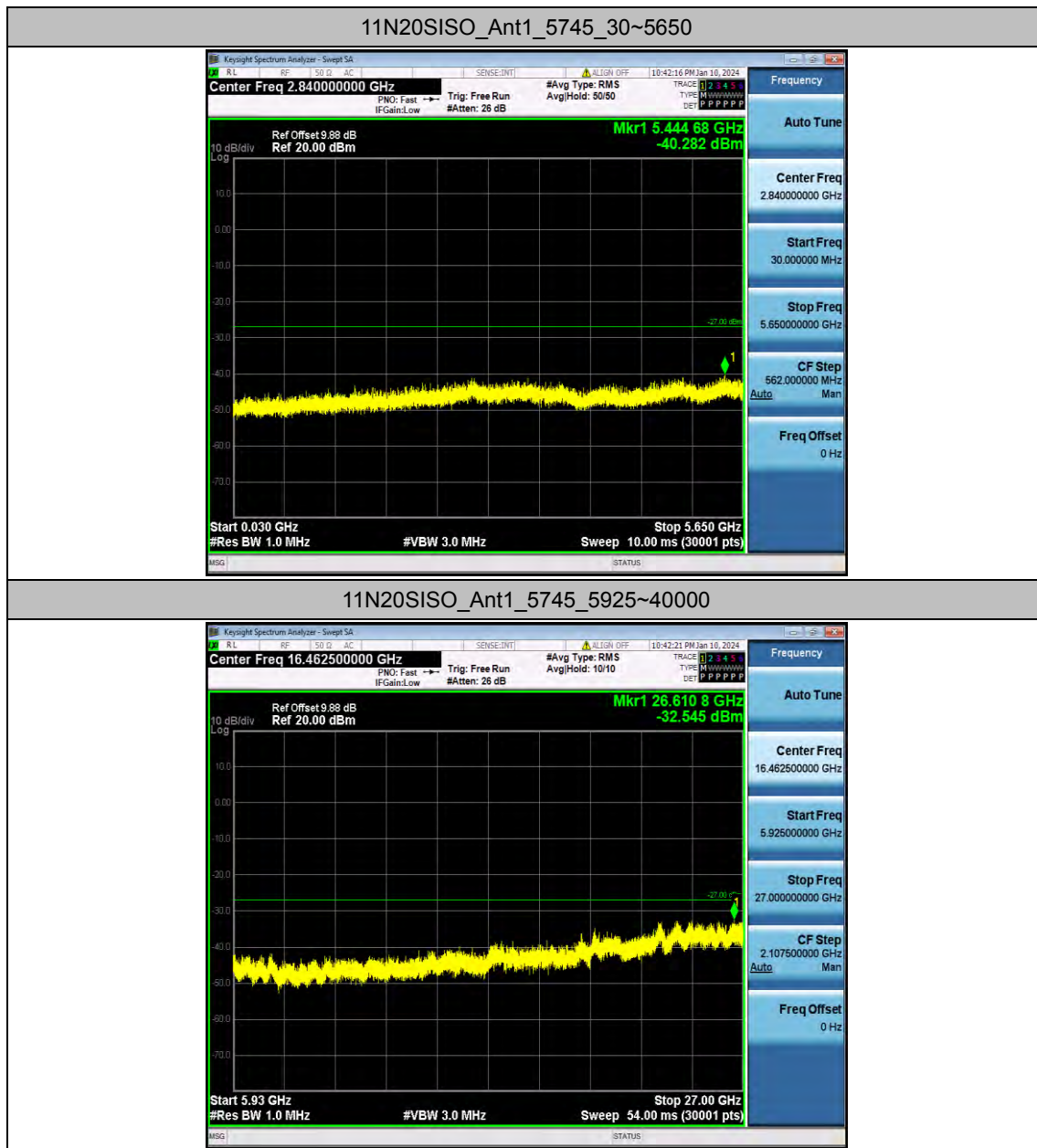
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	30~5650	5572.82	-40.67	≤-27	PASS
			5925~40000	23527.54	-31.79	≤-27	PASS
		5785	30~5650	5451.24	-39.81	≤-27	PASS
			5925~40000	24289.76	-31.13	≤-27	PASS
		5825	30~5650	5499.57	-39.91	≤-27	PASS
			5925~40000	25731.29	-31.09	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	5444.68	-40.28	≤-27	PASS
			5925~40000	26610.82	-32.55	≤-27	PASS
		5785	30~5650	5502.57	-39.64	≤-27	PASS
			5925~40000	26990.17	-31.36	≤-27	PASS
		5825	30~5650	5476.72	-39.76	≤-27	PASS
			5925~40000	24316.45	-32.06	≤-27	PASS
11N40SISO	Ant1	5755	30~5650	5434.75	-40.44	≤-27	PASS
			5925~40000	26778.71	-32.22	≤-27	PASS
		5795	30~5650	5411.52	-39.7	≤-27	PASS
			5925~40000	24259.55	-30.67	≤-27	PASS
11AC20SISO	Ant1	5745	30~5650	4930.83	-40.38	≤-27	PASS
			5925~40000	24272.9	-32.2	≤-27	PASS
		5785	30~5650	5435.88	-39.51	≤-27	PASS
			5925~40000	26054.44	-30.89	≤-27	PASS
		5825	30~5650	4896.36	-40.12	≤-27	PASS
			5925~40000	26671.23	-31.15	≤-27	PASS
11AC40SISO	Ant1	5755	30~5650	5381.36	-39.35	≤-27	PASS
			5925~40000	26849.67	-31.61	≤-27	PASS
		5795	30~5650	5433.63	-39.71	≤-27	PASS
			5925~40000	24746.38	-31.53	≤-27	PASS
11AC80SISO	Ant1	5775	30~5650	5351.2	-40.62	≤-27	PASS
			5925~40000	26652.97	-31.78	≤-27	PASS

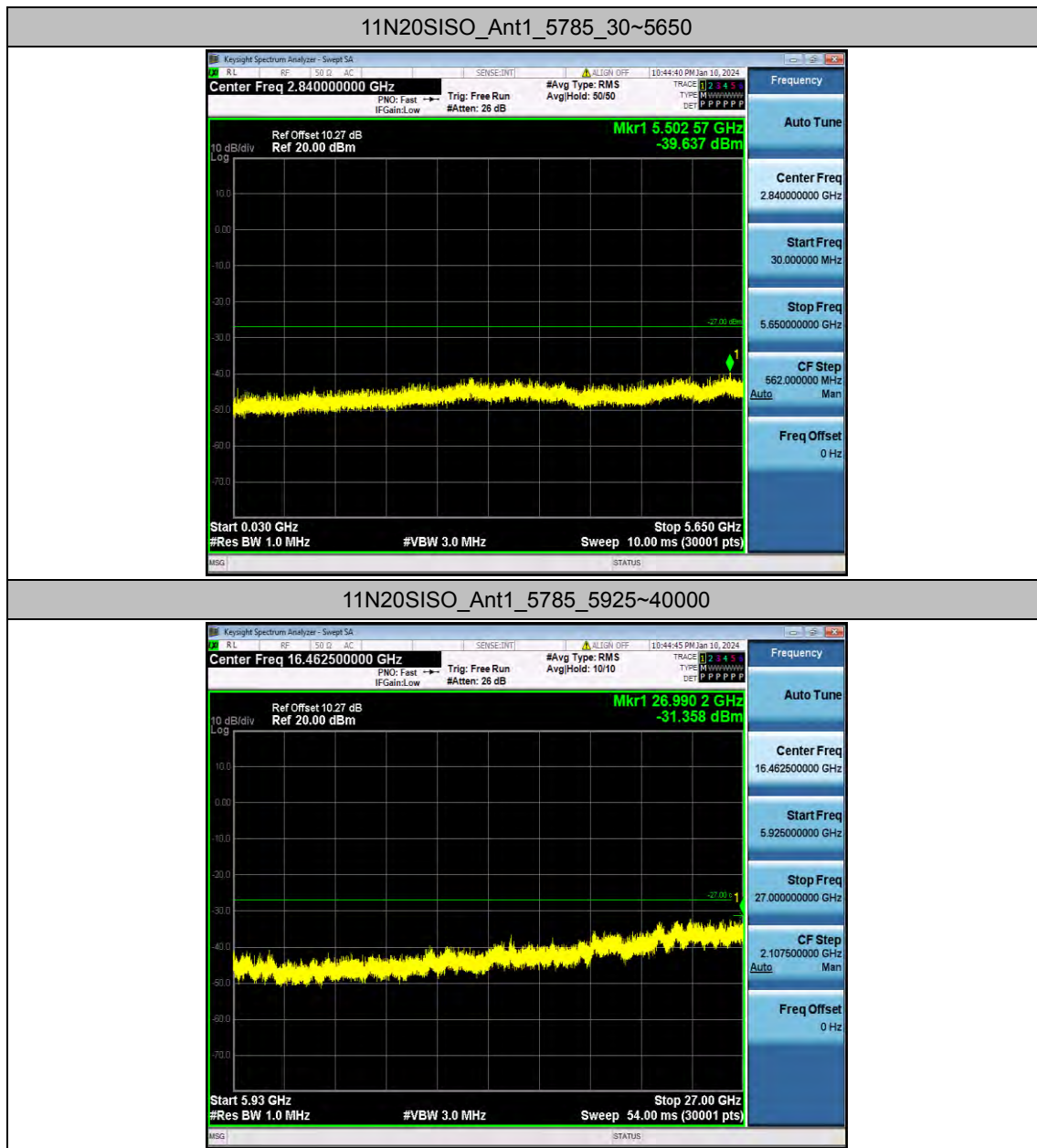
Test Graphs

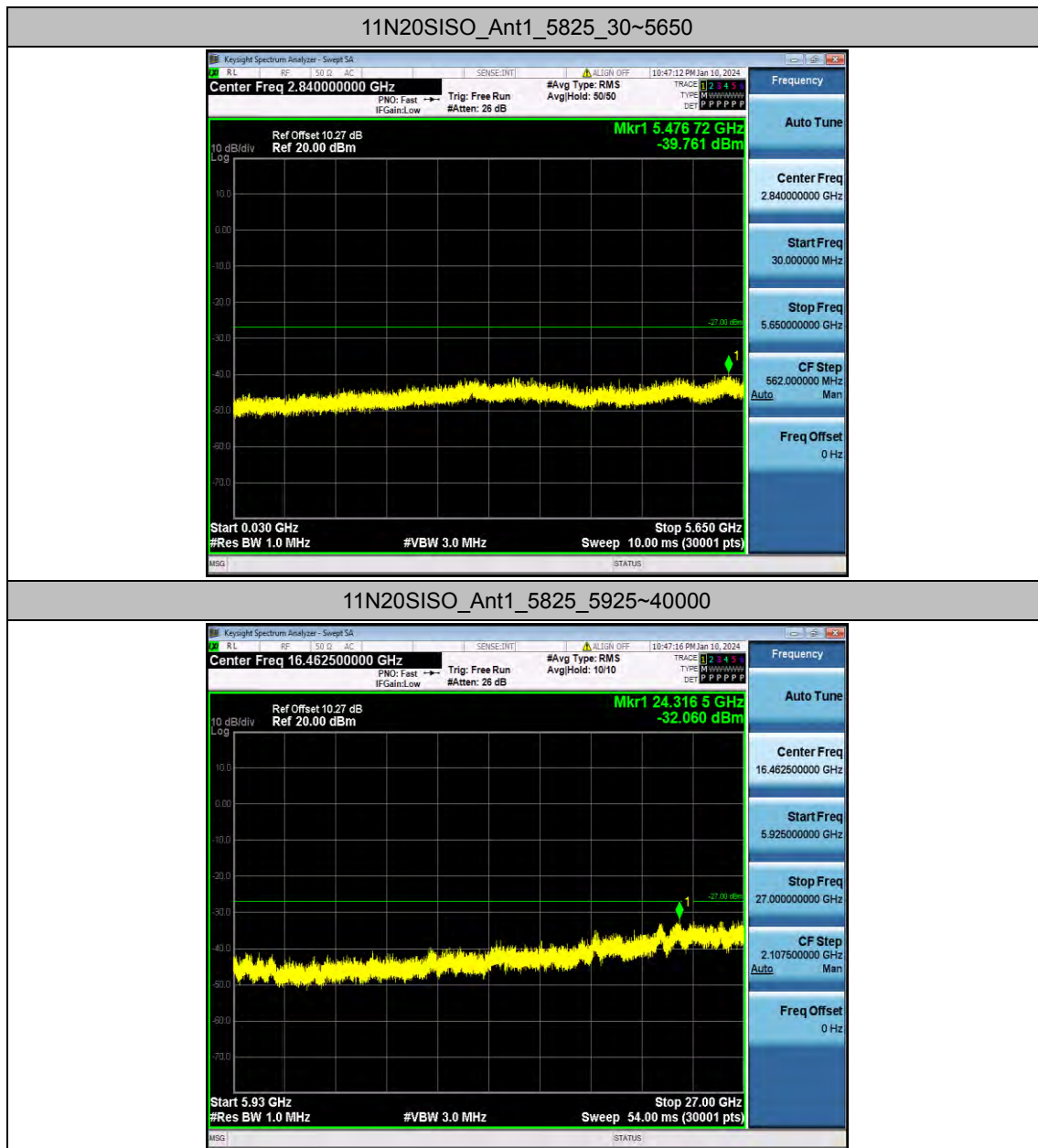


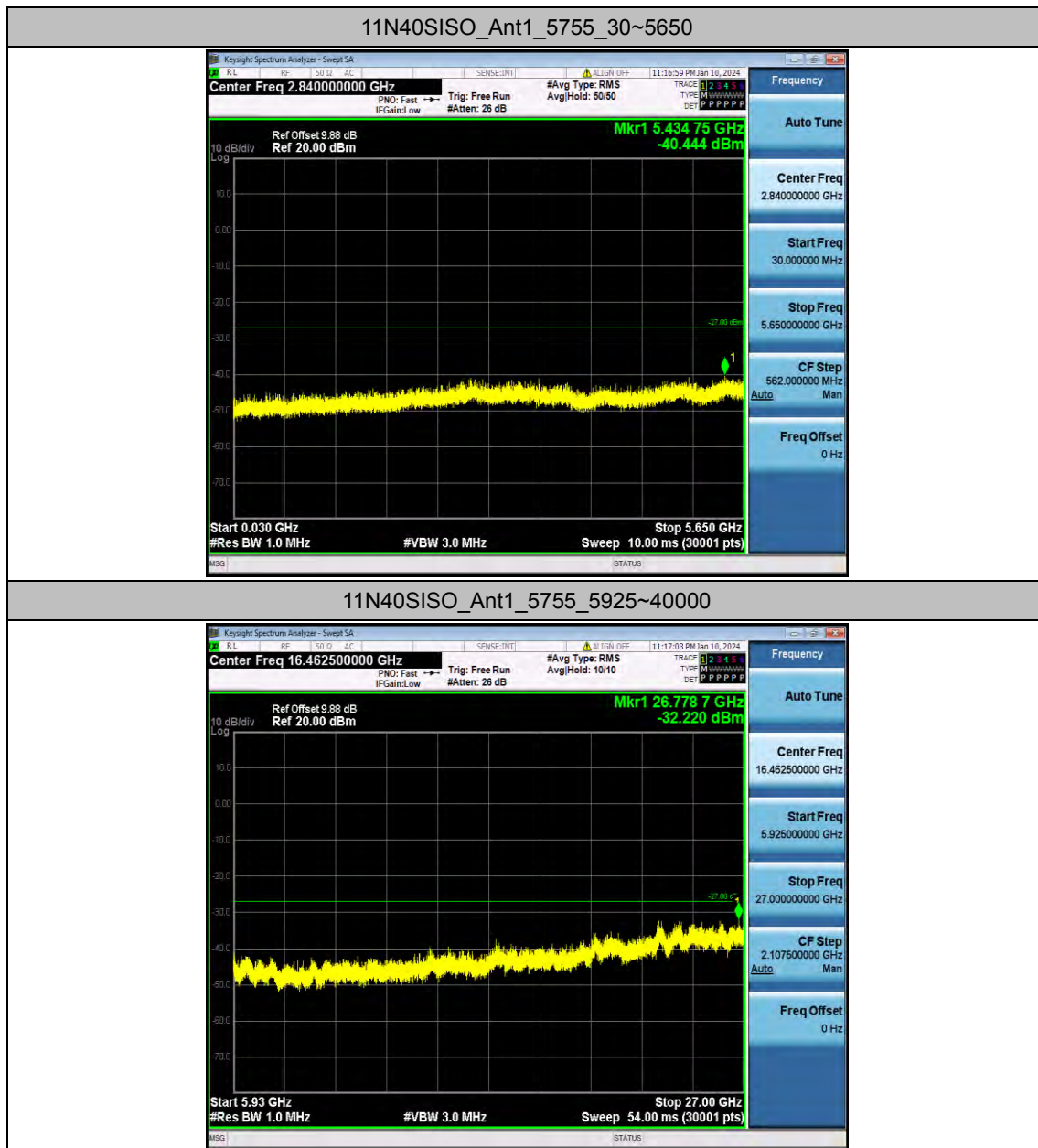


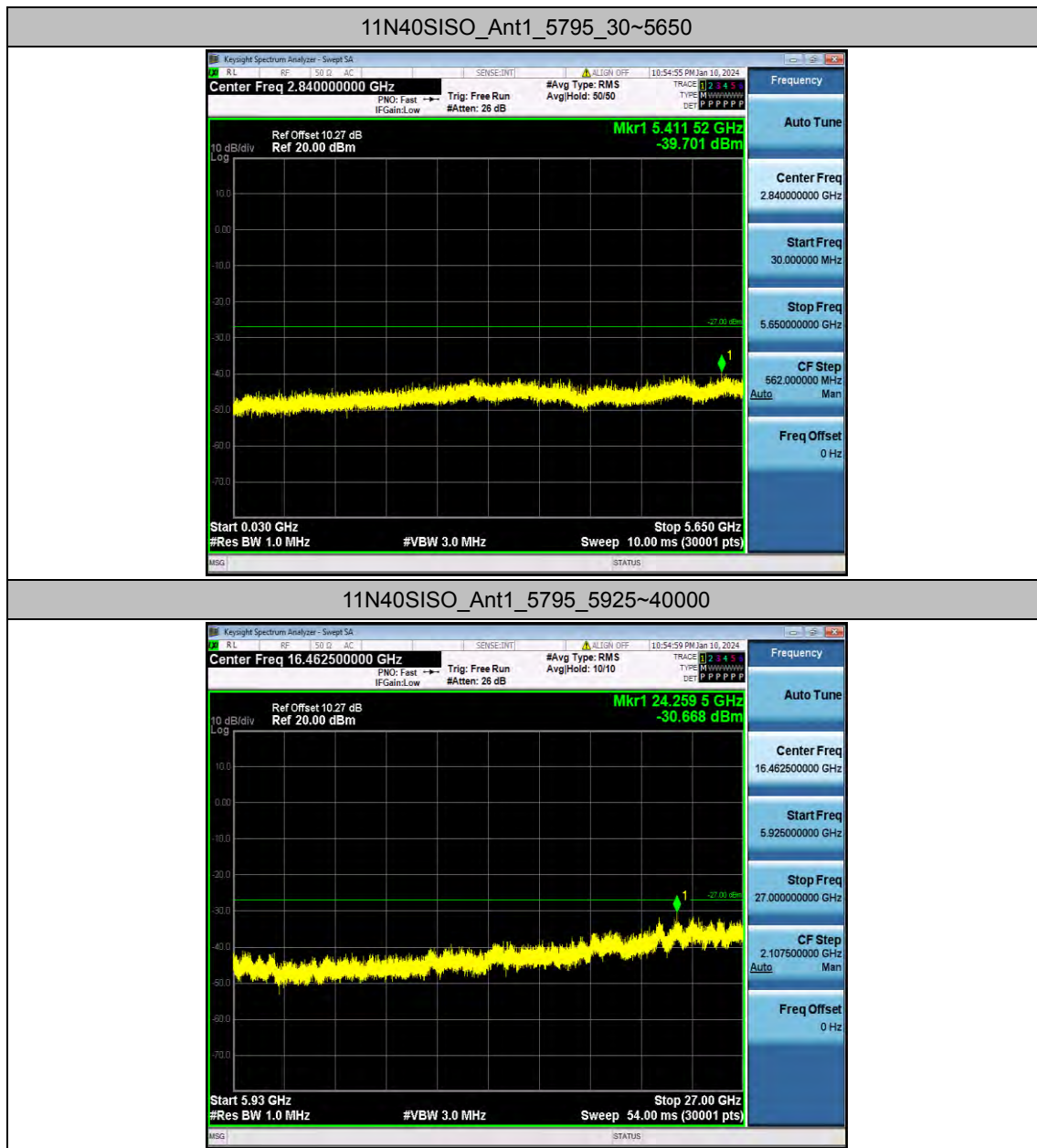


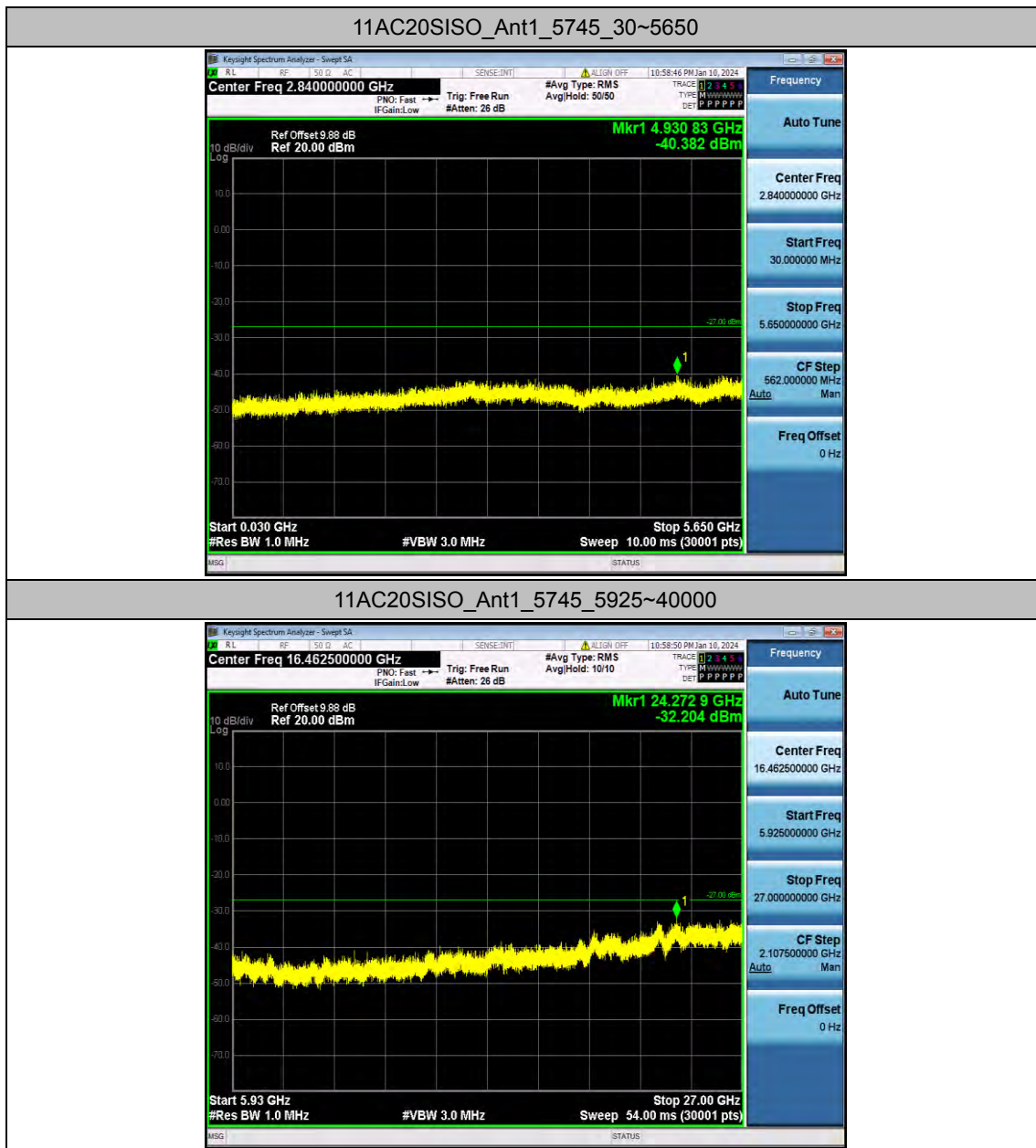


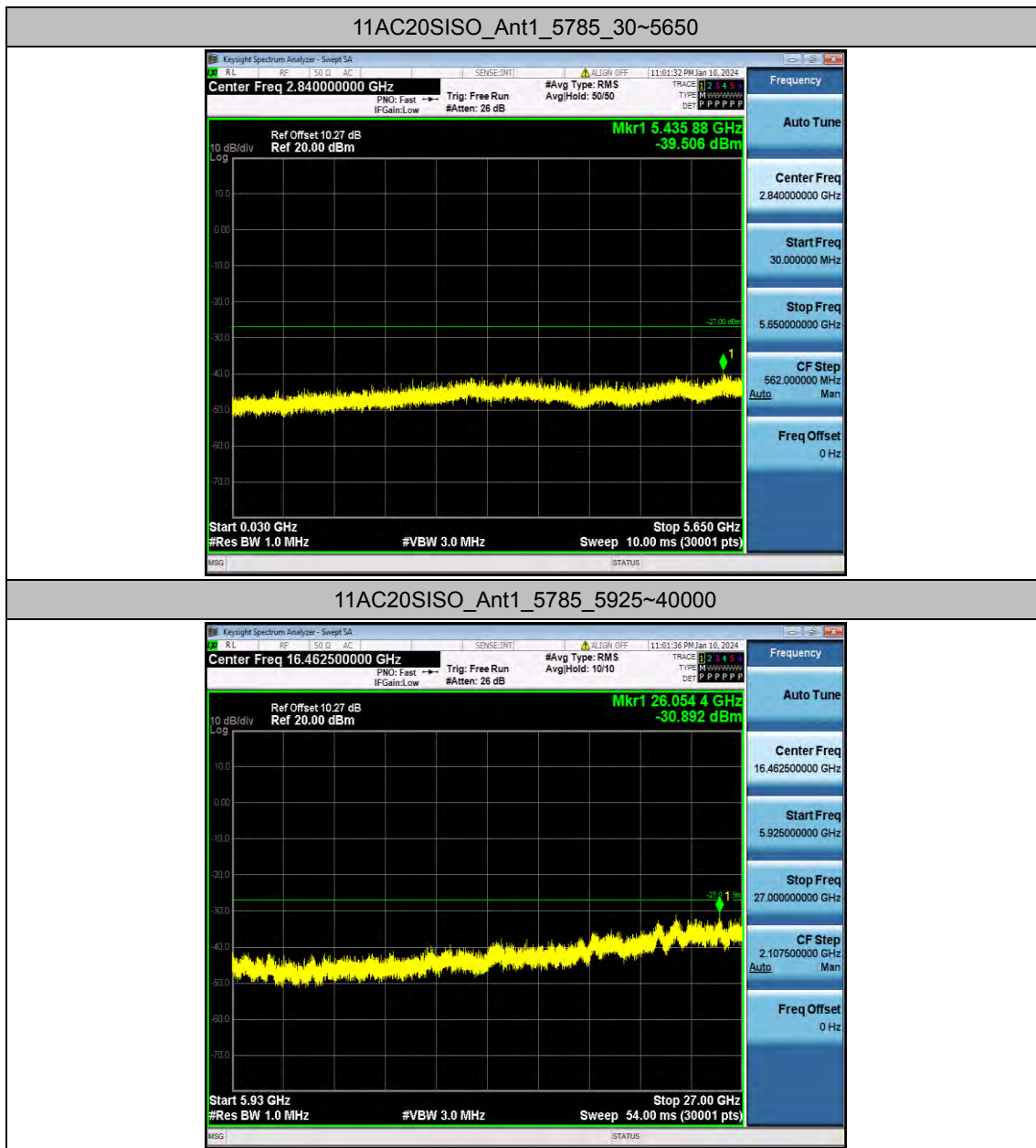








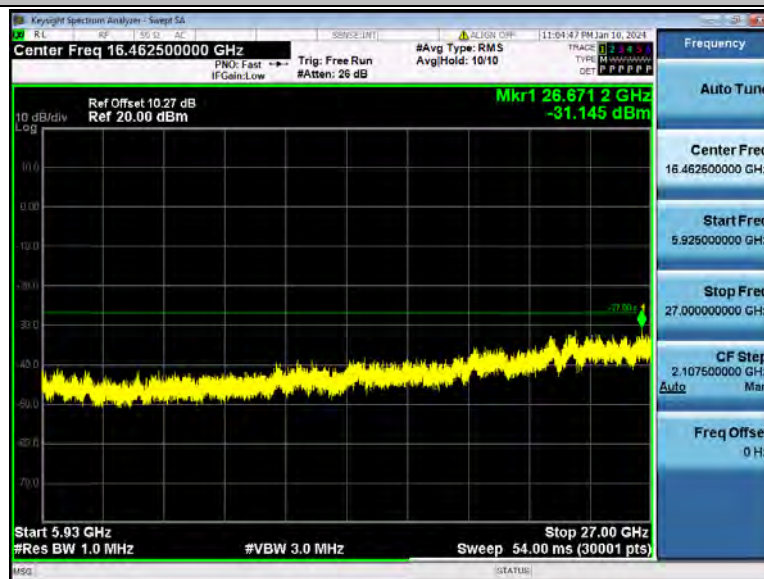


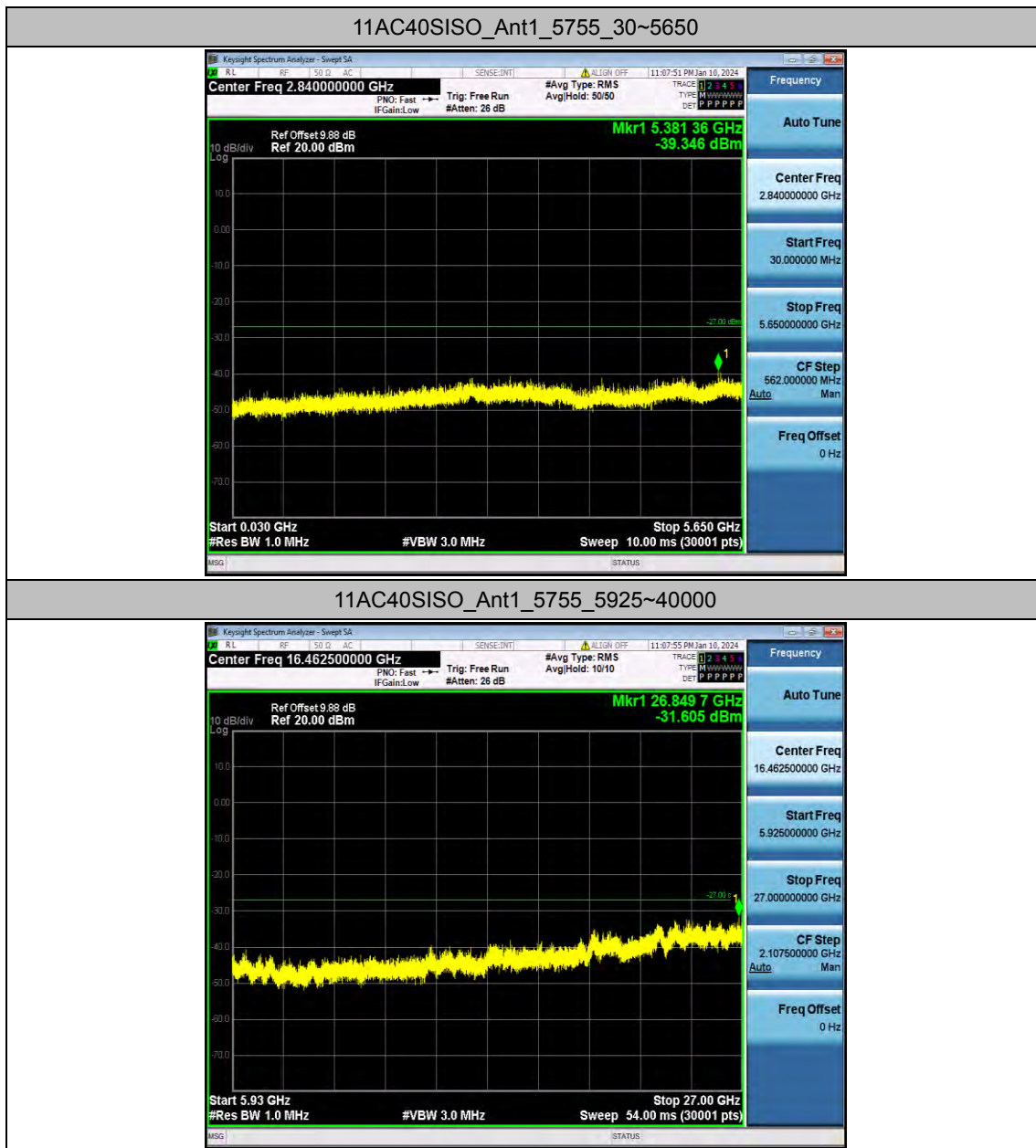


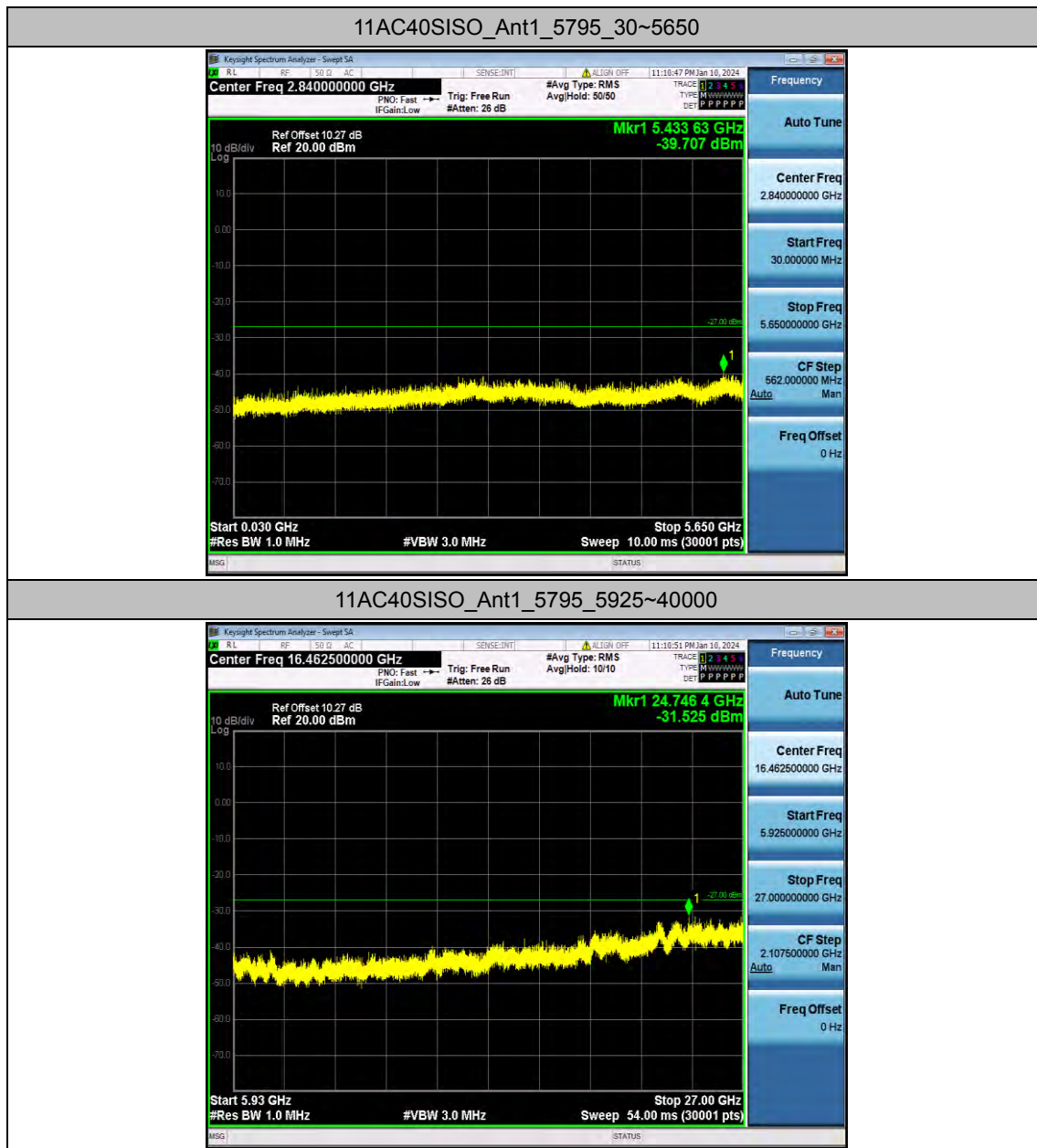
11AC20SISO_Ant1_5825_30~5650

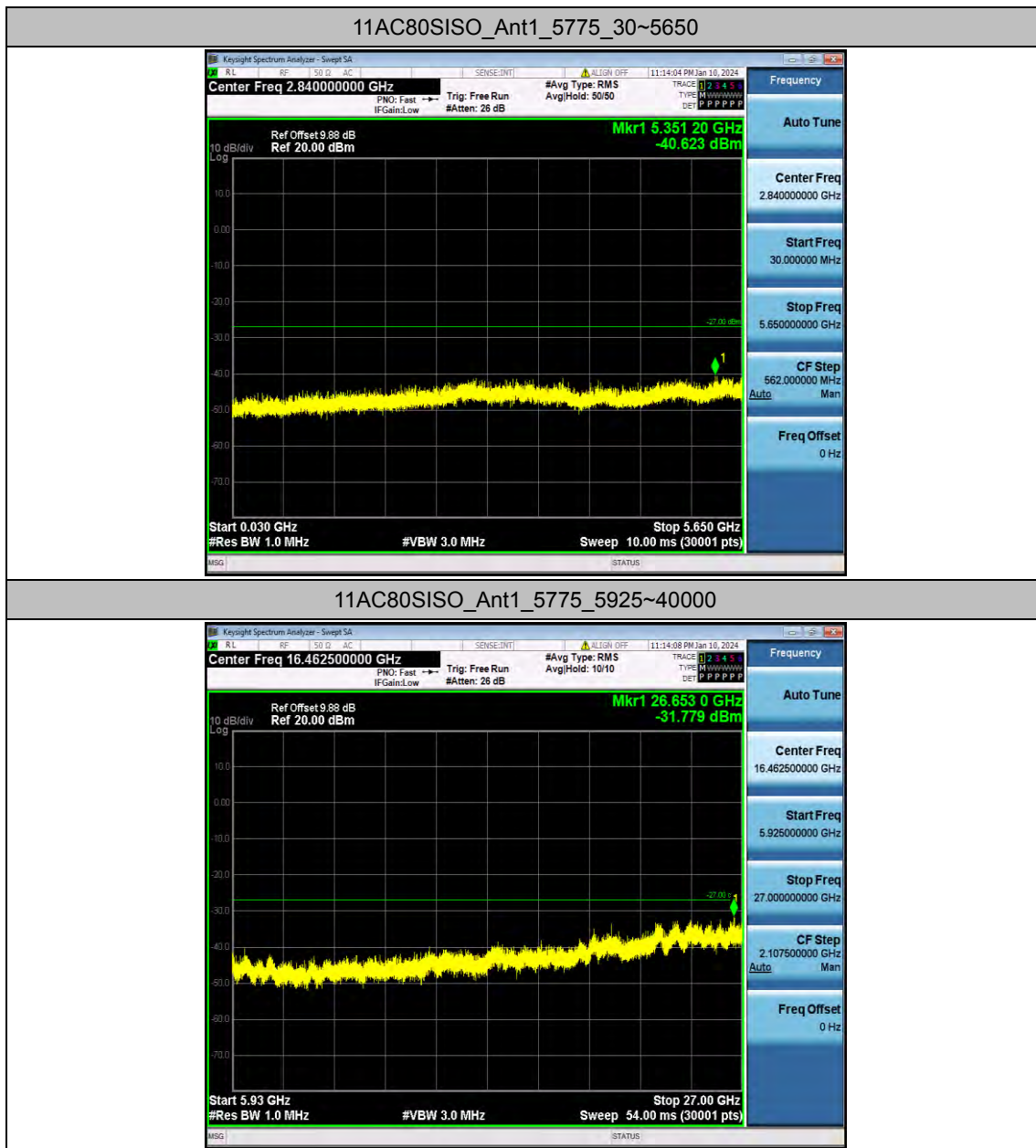


11AC20SISO_Ant1_5825_5925~40000









Appendix E.8: Emissions in Restricted Bands

Test Result

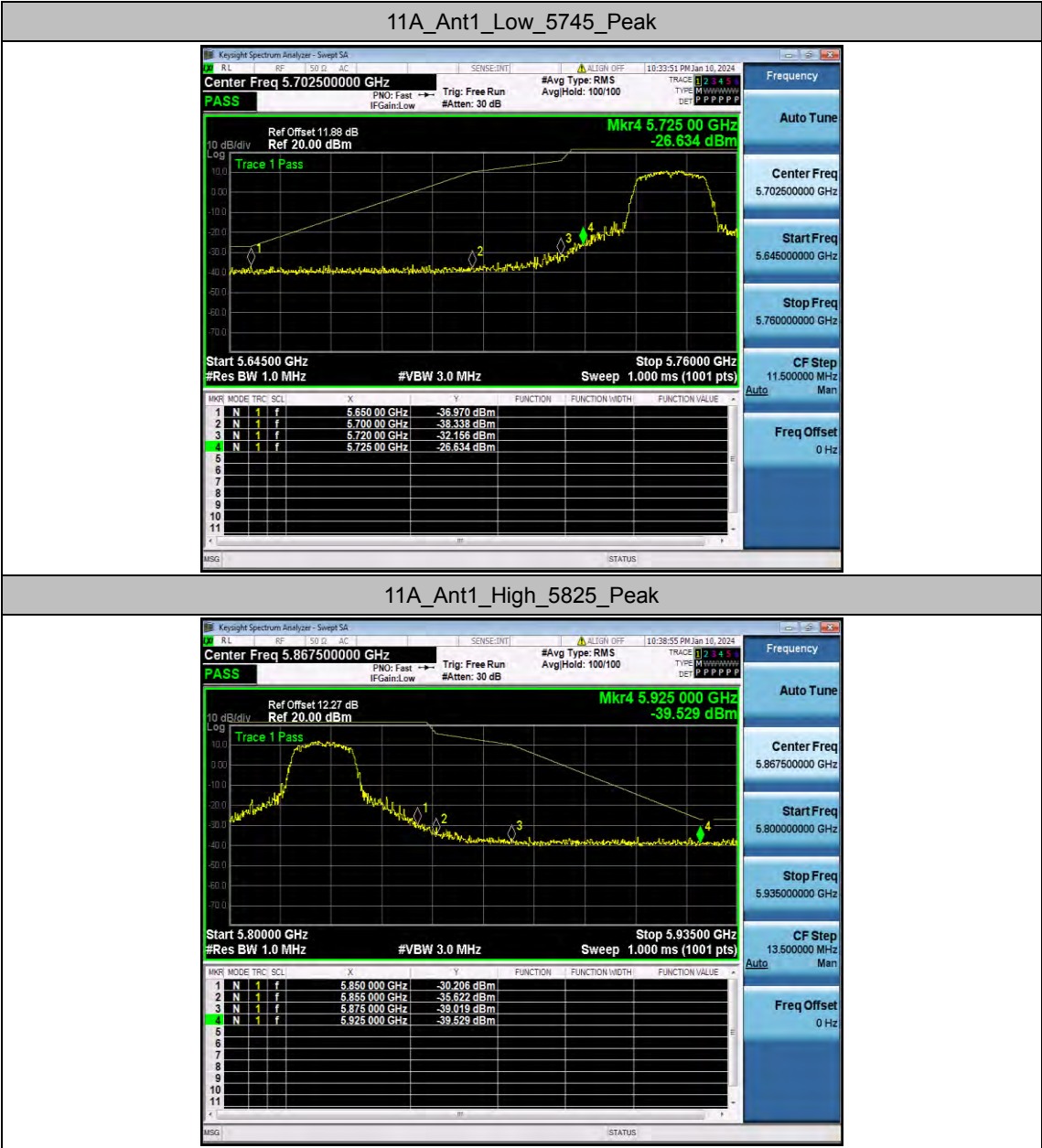
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	Peak	5650.000	-36.97	≤-27.00	PASS
				Peak	5700.000	-38.34	≤10.00	PASS
				Peak	5720.000	-32.16	≤15.60	PASS
				Peak	5725.000	-26.63	≤27.00	PASS
		High	5825	Peak	5850.000	-30.206	≤27.00	PASS
				Peak	5855.000	-35.62	≤15.60	PASS
				Peak	5875.000	-39.02	≤10.00	PASS
				Peak	5925.000	-39.53	≤-27.00	PASS
11N20SISO	Ant1	Low	5745	Peak	5650.000	-40.136	≤-27.00	PASS
				Peak	5700.000	-36.85	≤10.00	PASS
				Peak	5720.000	-21.88	≤15.60	PASS
				Peak	5725.000	-16.24	≤27.00	PASS
		High	5825	Peak	5850.000	-27.279	≤27.00	PASS
				Peak	5855.000	-29.9	≤15.60	PASS
				Peak	5875.000	-36.77	≤10.00	PASS
				Peak	5925.000	-38.37	≤-27.00	PASS
11N40SISO	Ant1	Low	5755	Peak	5650.000	-40.8	≤-27.00	PASS
				Peak	5700.000	-35.9	≤10.00	PASS
				Peak	5720.000	-30.75	≤15.60	PASS
				Peak	5725.000	-27.67	≤27.00	PASS
		High	5795	Peak	5850.000	-37.802	≤27.00	PASS
				Peak	5855.000	-35	≤15.60	PASS
				Peak	5875.000	-37.41	≤10.00	PASS
				Peak	5925.000	-39.07	≤-27.00	PASS
11AC20SISO	Ant1	Low	5745	Peak	5650.000	-39.815	≤-27.00	PASS
				Peak	5700.000	-36.92	≤10.00	PASS
				Peak	5720.000	-32.79	≤15.60	PASS
				Peak	5725.000	-25.61	≤27.00	PASS

		High	5825	Peak	5850.000	-29.46	≤ 27.00	PASS
				Peak	5855.000	-33.13	≤ 15.60	PASS
				Peak	5875.000	-37.91	≤ 10.00	PASS
				Peak	5925.000	-37.55	≤ -27.00	PASS
11AC40SI SO	Ant1	Low	5755	Peak	5650.000	-40.38	≤ -27.00	PASS
				Peak	5700.000	-38.43	≤ 10.00	PASS
				Peak	5720.000	-28.6	≤ 15.60	PASS
				Peak	5725.000	-26.85	≤ 27.00	PASS
		High	5795	Peak	5850.000	-35.473	≤ 27.00	PASS
				Peak	5855.000	-37.93	≤ 15.60	PASS
				Peak	5875.000	-37.37	≤ 10.00	PASS
				Peak	5925.000	-38.5	≤ -27.00	PASS
11AC80SI SO	Ant1	Low	5775	Peak	5650.000	-39.112	≤ -27.00	PASS
				Peak	5700.000	-33.47	≤ 10.00	PASS
				Peak	5720.000	-29.75	≤ 15.60	PASS
				Peak	5725.000	-28.52	≤ 27.00	PASS
		High	5775	Peak	5850.000	-31.109	≤ 27.00	PASS
				Peak	5855.000	-33	≤ 15.60	PASS
				Peak	5875.000	-36.15	≤ 10.00	PASS
				Peak	5925.000	-40.16	≤ -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





11N20SISO_Ant1_High_5825_Peak

Frequency
Auto Tune
Center Freq 5.867500000 GHz
Start Freq 5.800000000 GHz
Stop Freq 5.935000000 GHz
CF Step 13.500000 MHz
Freq Offset 0 Hz

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

