

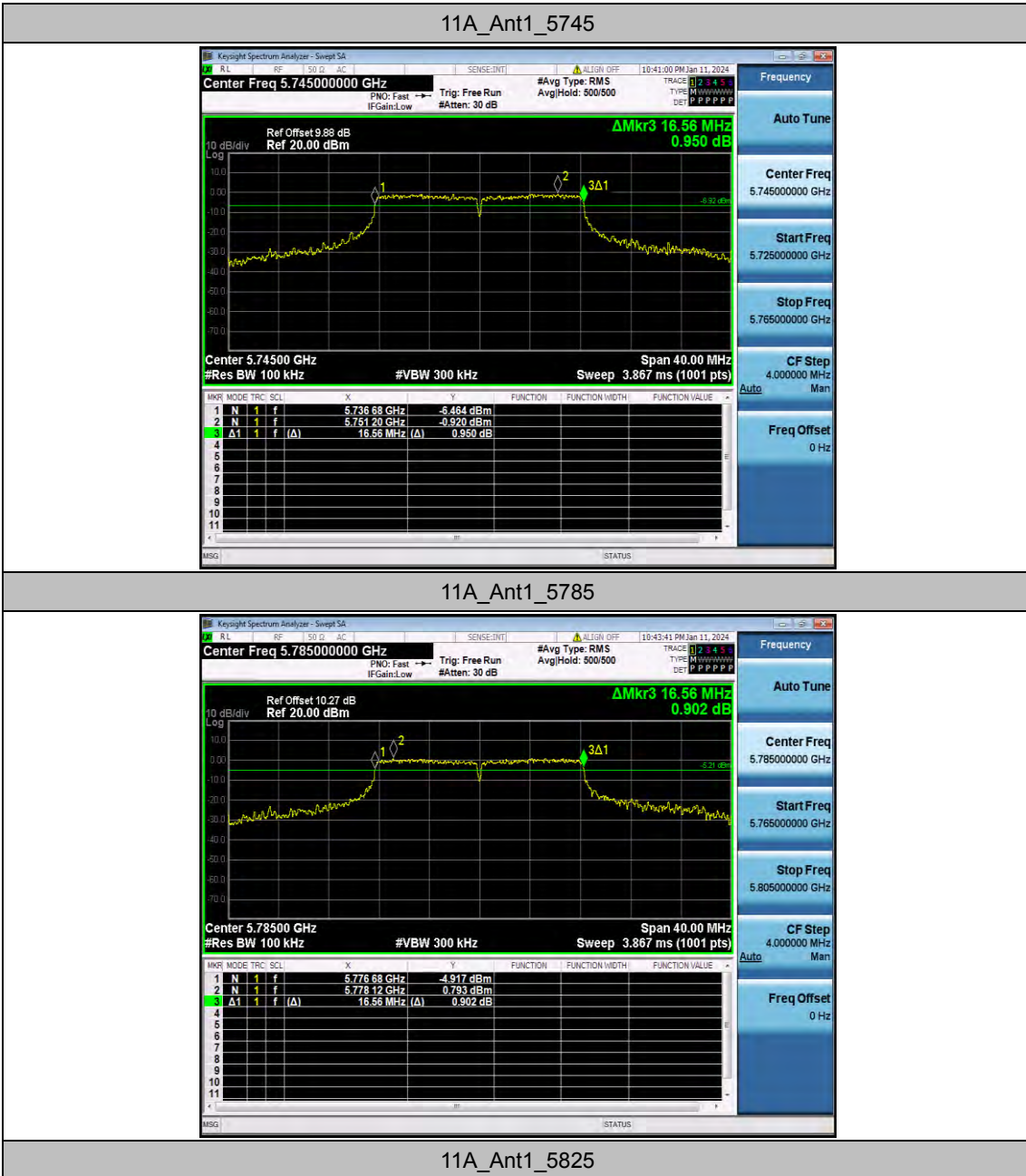
Case No. : <u>GTS20231120007-1-5</u>
Ambient Condition: <u>23 °C, 48 %RH</u>
According Standard: <u>■Part15E</u>
Test Date: <u>2024.1.11</u> Test Engineer: <u>Evan ouyang</u>

Appendix E.1: Min emission bandwidth

Test Result

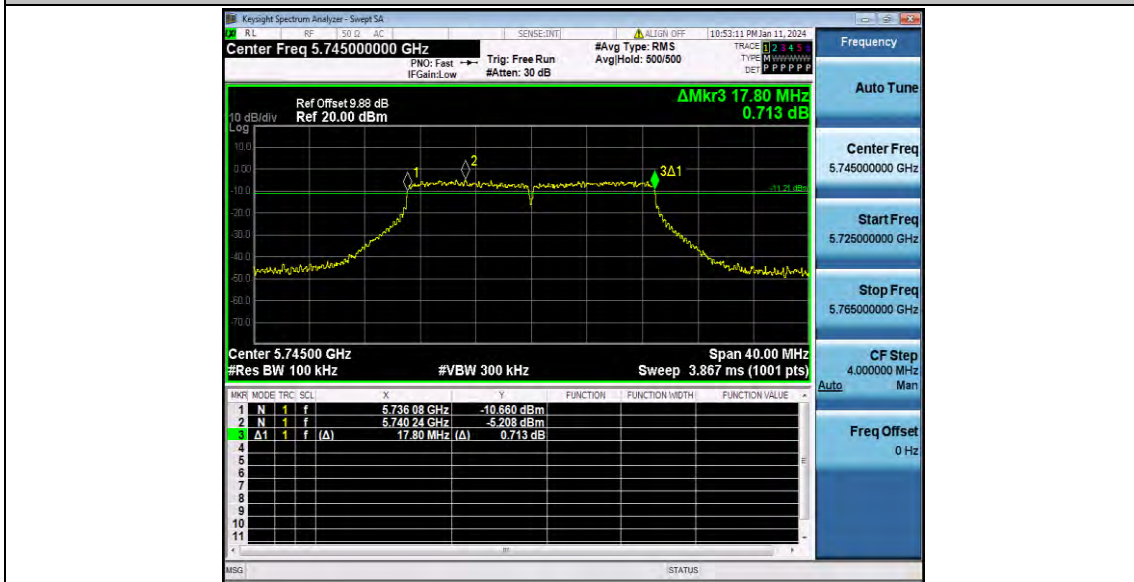
TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.560	5736.680	5753.240	0.5	PASS
		5785	16.560	5776.680	5793.240	0.5	PASS
		5825	16.560	5816.720	5833.280	0.5	PASS
11N20SISO	Ant1	5745	17.800	5736.080	5753.880	0.5	PASS
		5785	17.800	5776.080	5793.880	0.5	PASS
		5825	17.800	5816.080	5833.880	0.5	PASS
11N40SISO	Ant1	5755	36.480	5736.760	5773.240	0.5	PASS
		5795	36.480	5776.760	5813.240	0.5	PASS
11AC20SISO	Ant1	5745	17.800	5736.080	5753.880	0.5	PASS
		5785	17.760	5776.120	5793.880	0.5	PASS
		5825	17.760	5816.120	5833.880	0.5	PASS
11AC40SISO	Ant1	5755	36.480	5736.760	5773.240	0.5	PASS
		5795	36.480	5776.760	5813.240	0.5	PASS
11AC80SISO	Ant1	5775	76.480	5736.760	5813.240	0.5	PASS

Test Graphs B4

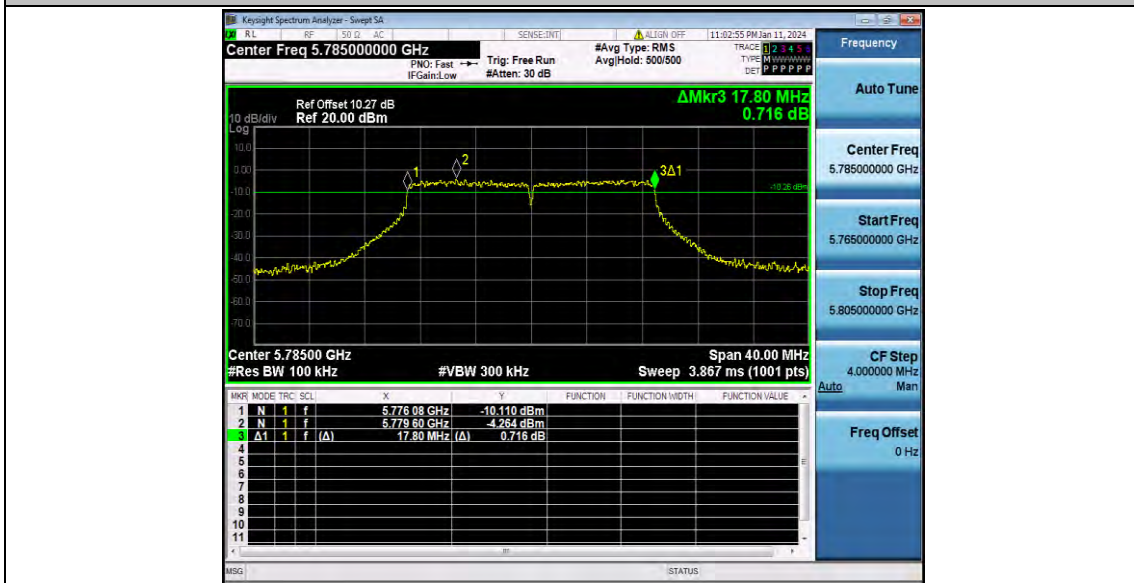




11N20SISO_Ant1_5745



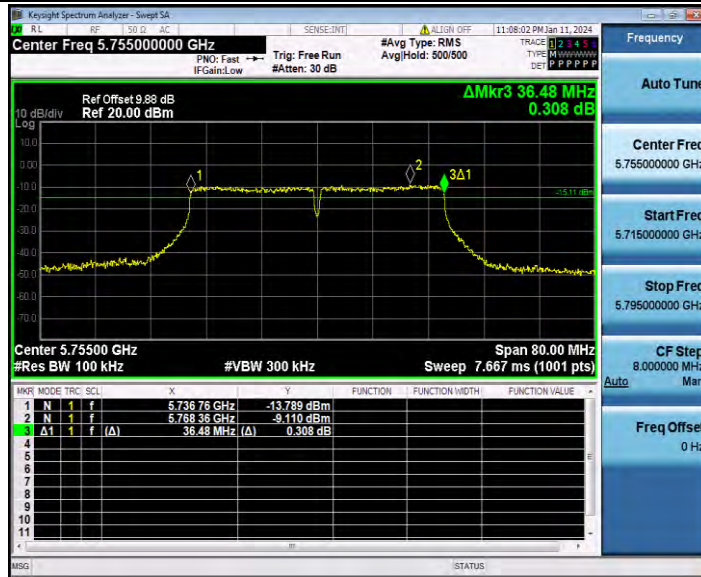
11N20SISO_Ant1_5785



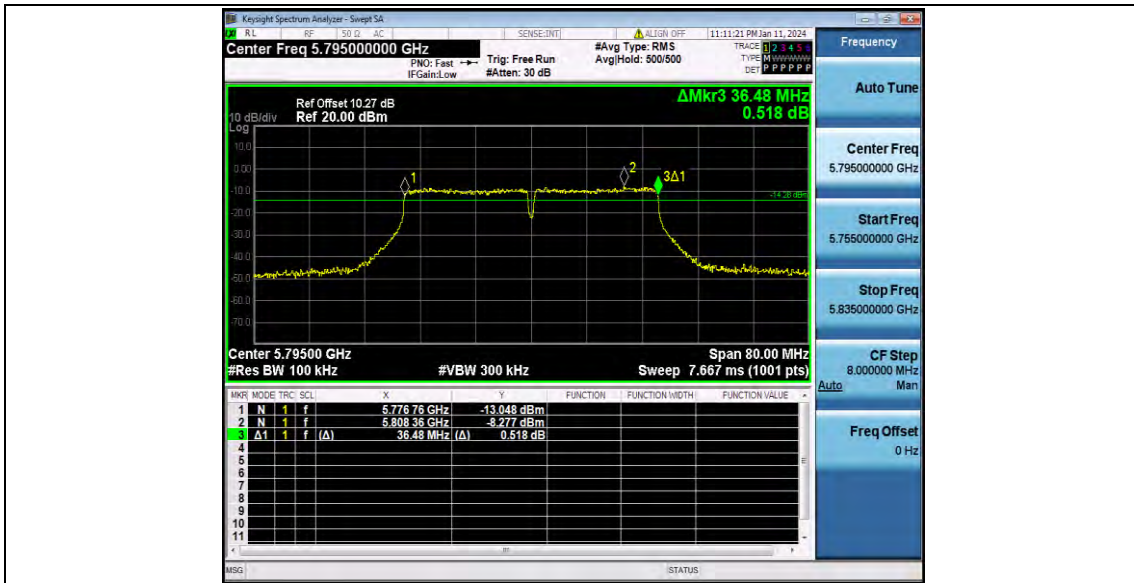
11N20SISO_Ant1_5825



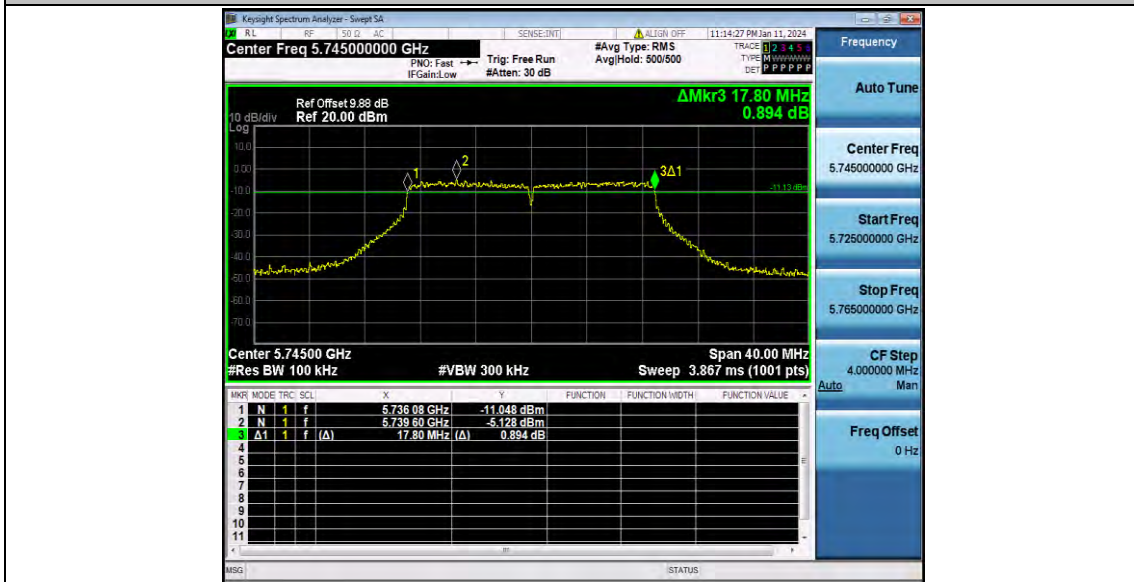
11N40SISO_Ant1_5755



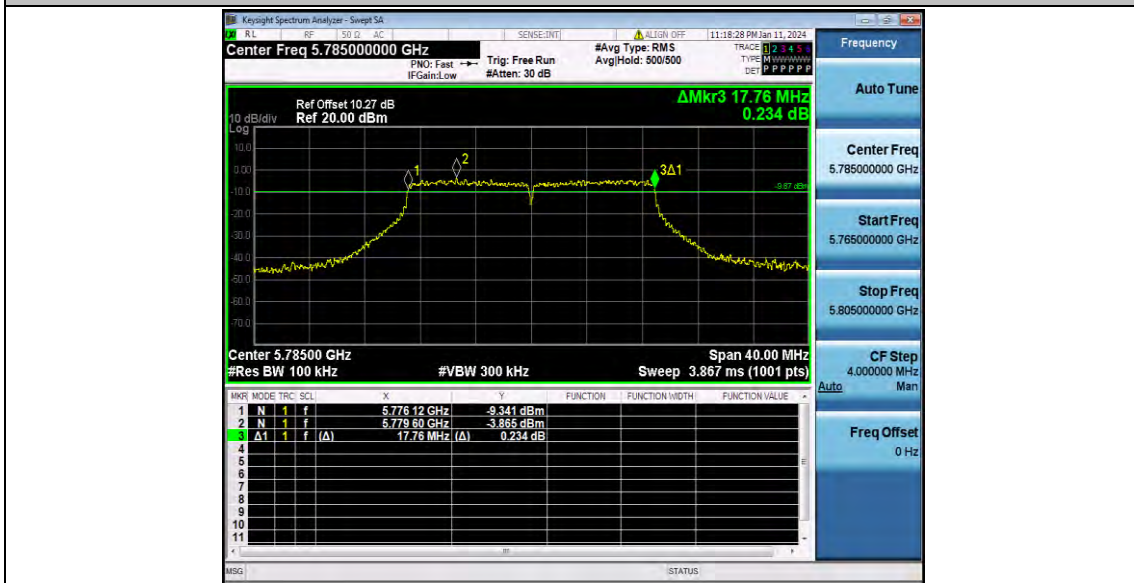
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



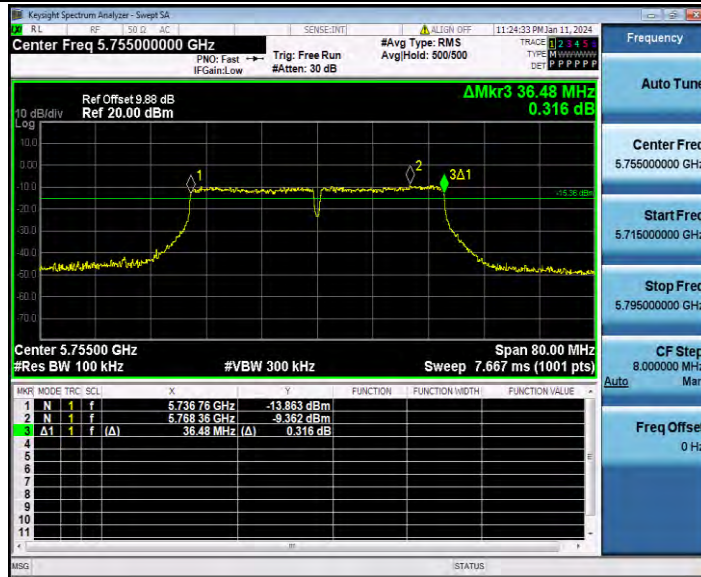
11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



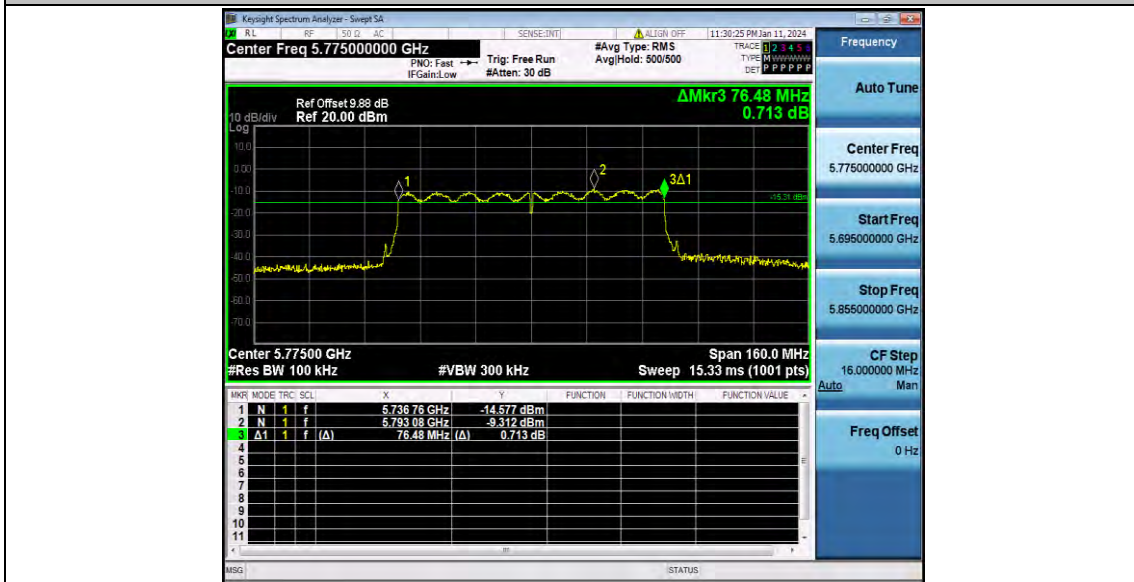
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775

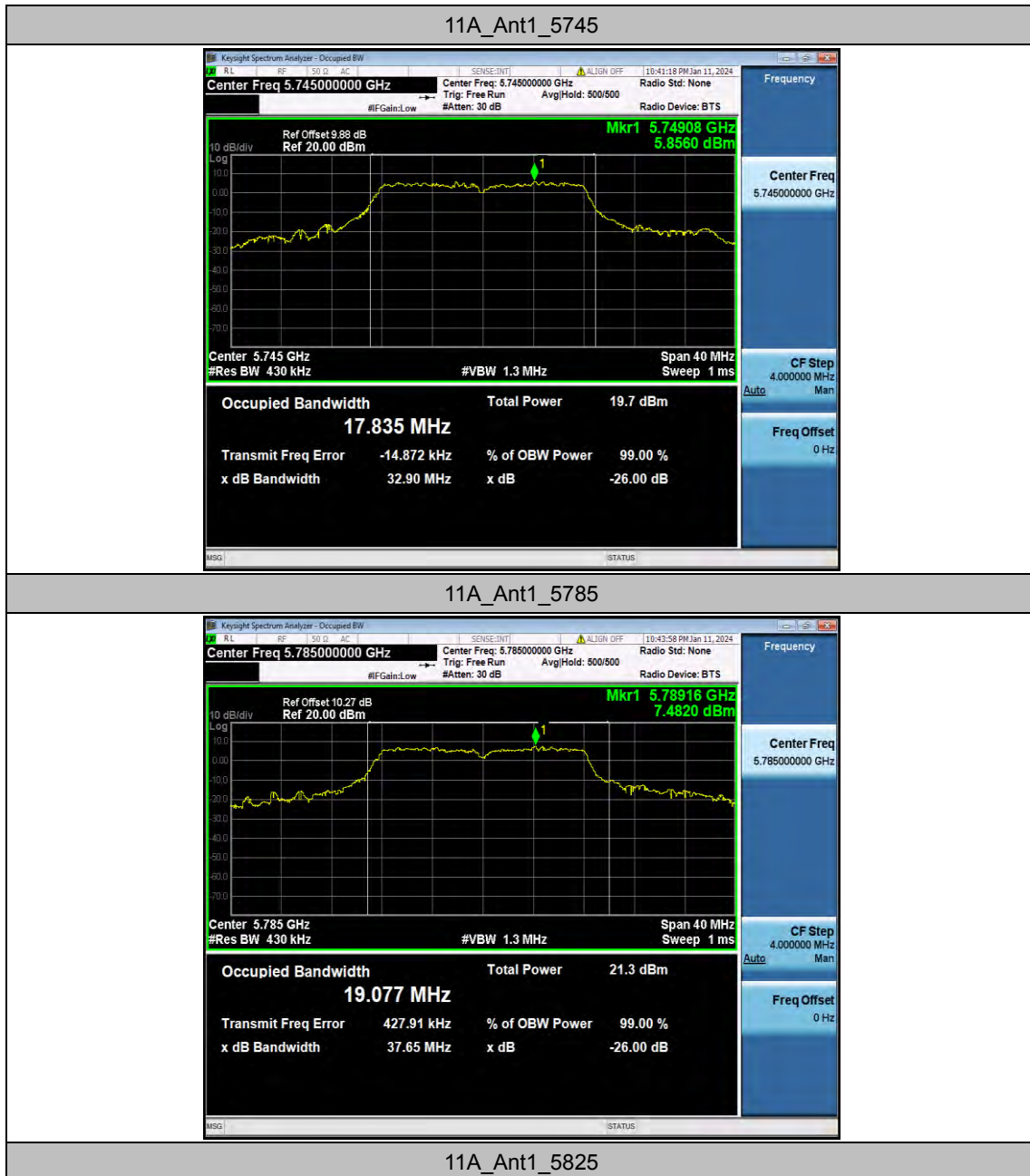


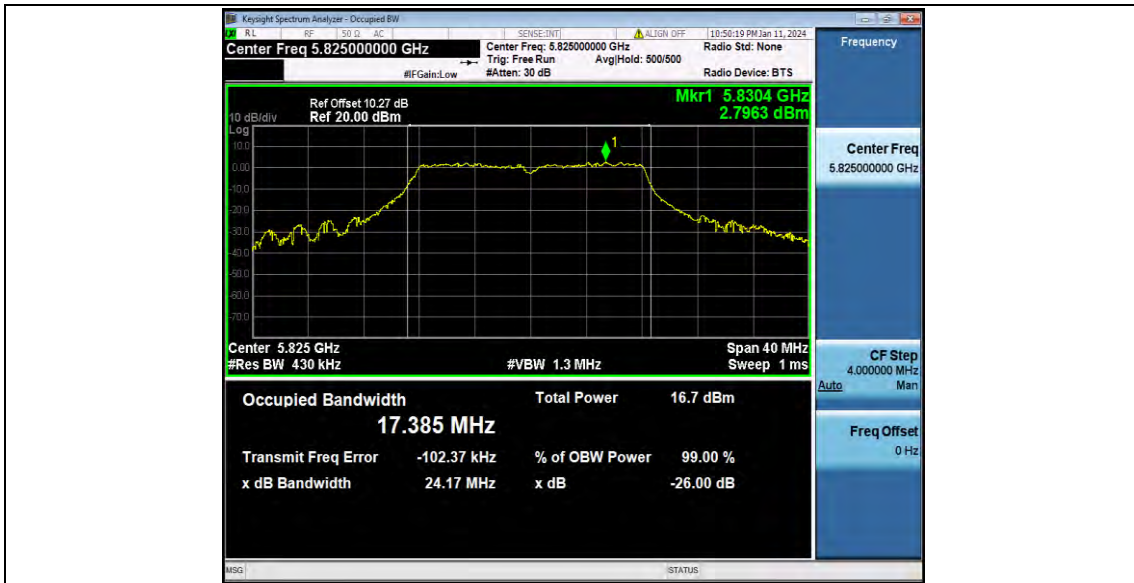
Appendix E.2: Occupied channel bandwidth

Test Result

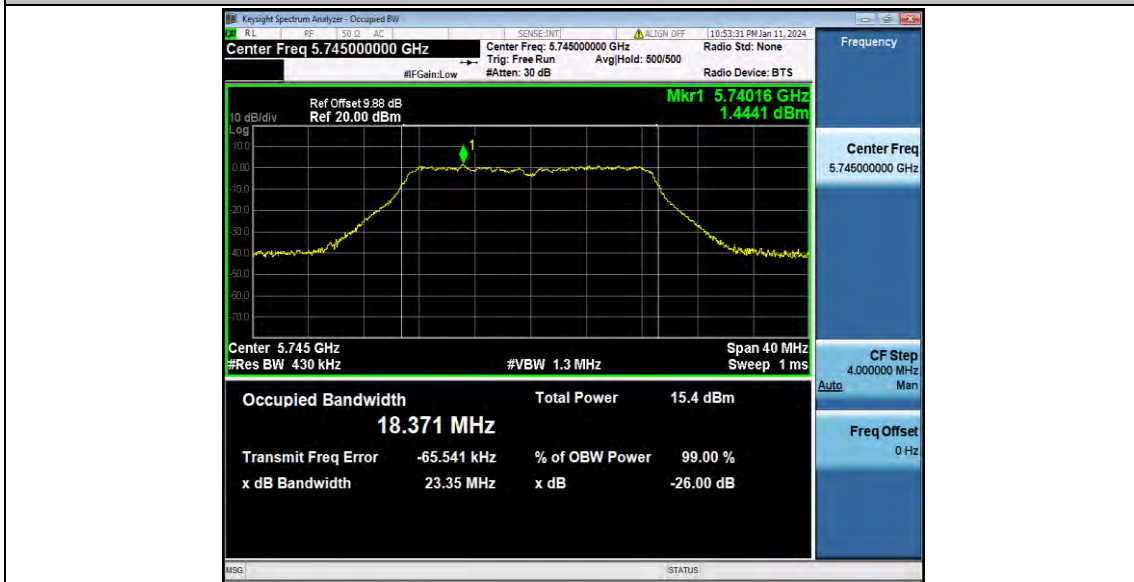
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	17.835	5736.0676	5753.9026	---	---
		5785	19.077	5775.8894	5794.9664	---	---
		5825	17.385	5816.2051	5833.5901	---	---
11N20SISO	Ant1	5745	18.371	5735.7490	5754.1200	---	---
		5785	18.372	5775.7528	5794.1248	---	---
		5825	18.383	5815.7759	5834.1589	---	---
11N40SISO	Ant1	5755	37.360	5736.3687	5773.7287	---	---
		5795	37.341	5776.3906	5813.7316	---	---
11AC20SISO	Ant1	5745	18.349	5735.7704	5754.1194	---	---
		5785	18.371	5775.7740	5794.1450	---	---
		5825	18.382	5815.7892	5834.1712	---	---
11AC40SISO	Ant1	5755	37.331	5736.3781	5773.7091	---	---
		5795	37.306	5776.3361	5813.6421	---	---
11AC80SISO	Ant1	5775	76.240	5737.0665	5813.3065	---	---

Test Graphs





11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



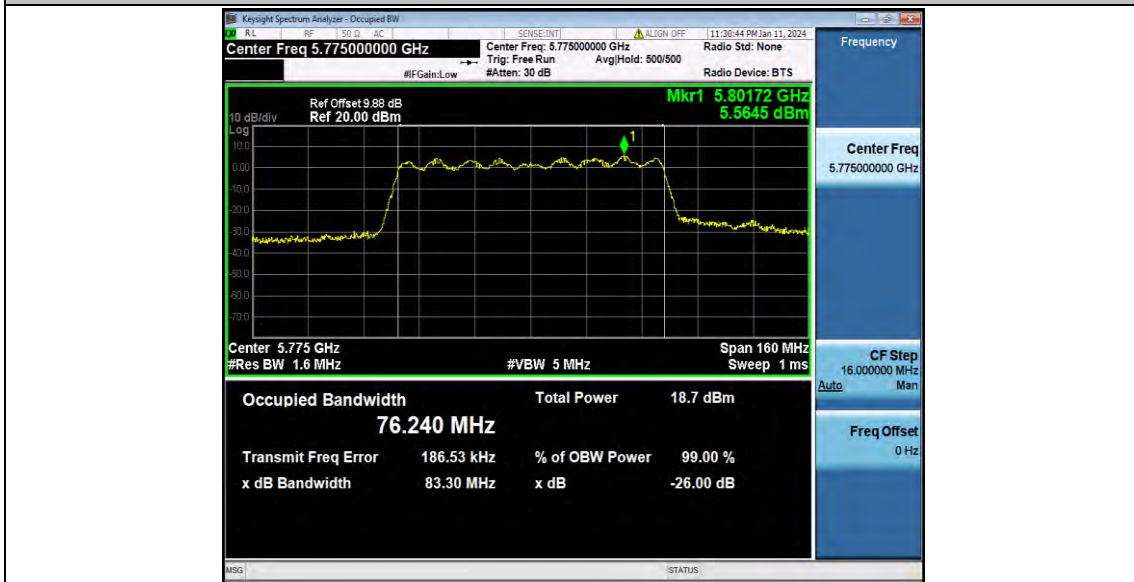
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775

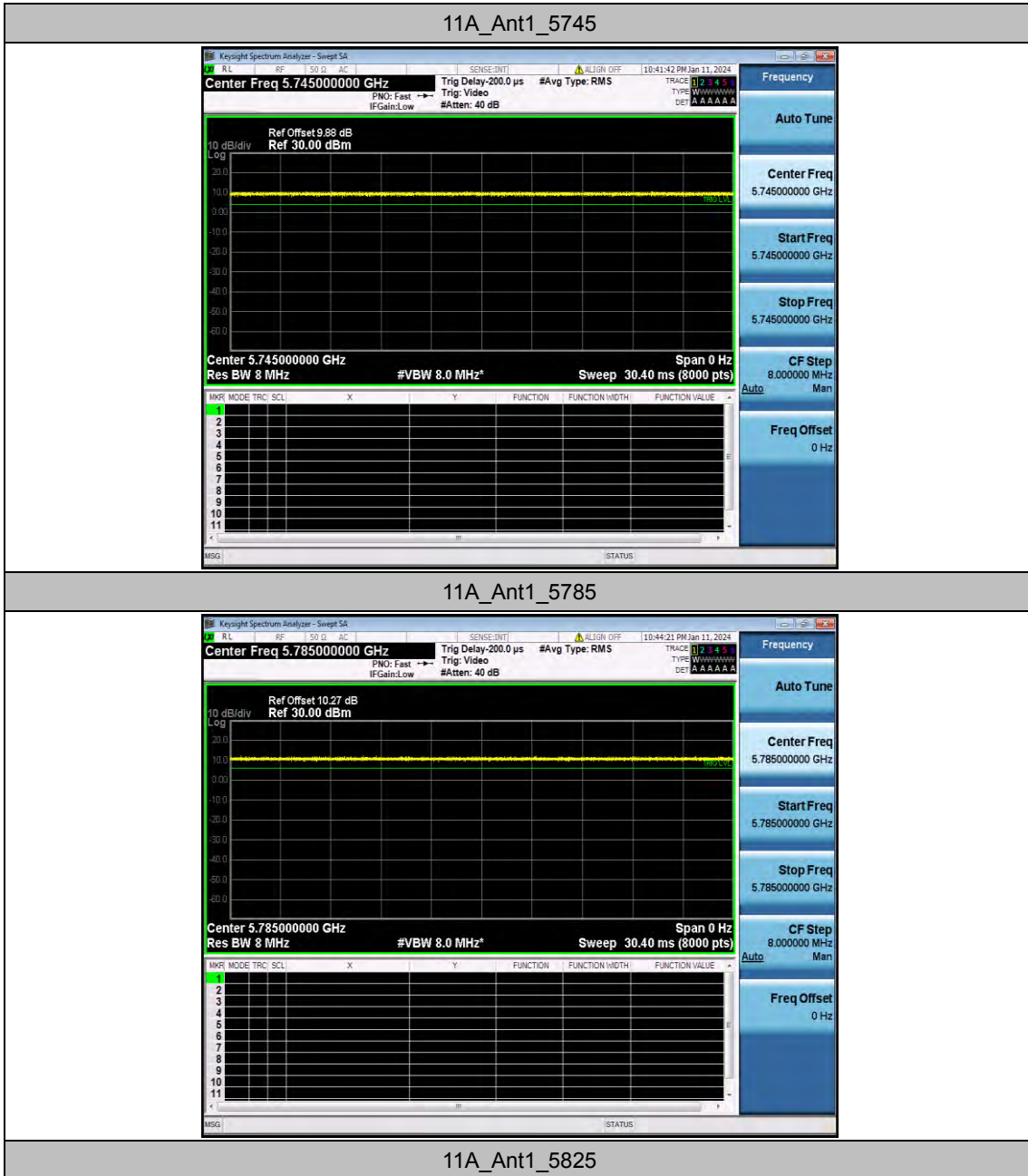


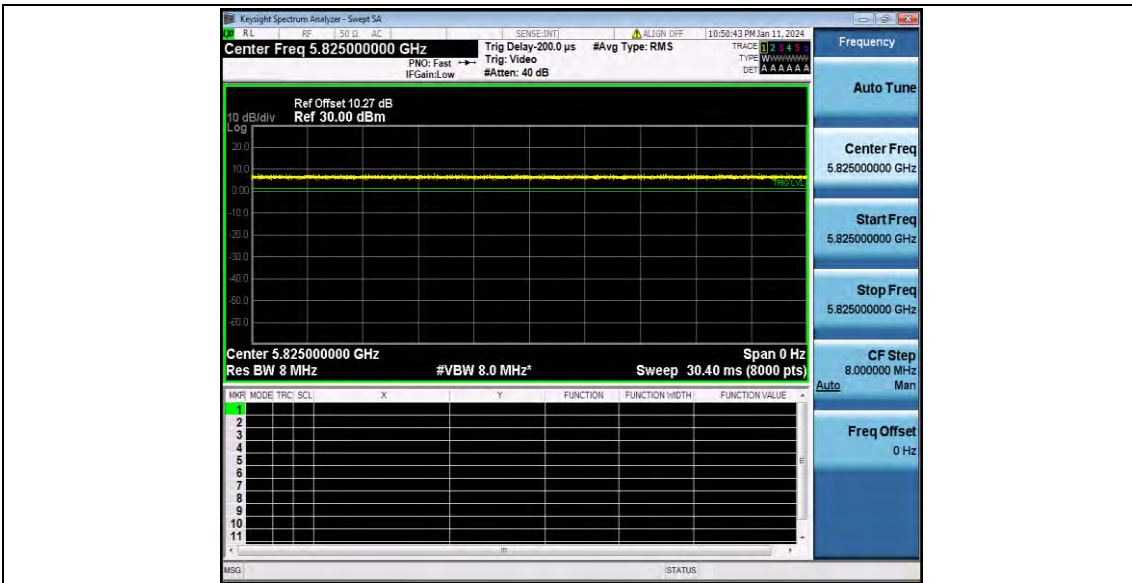
Appendix E.3: Duty Cycle

Test Result

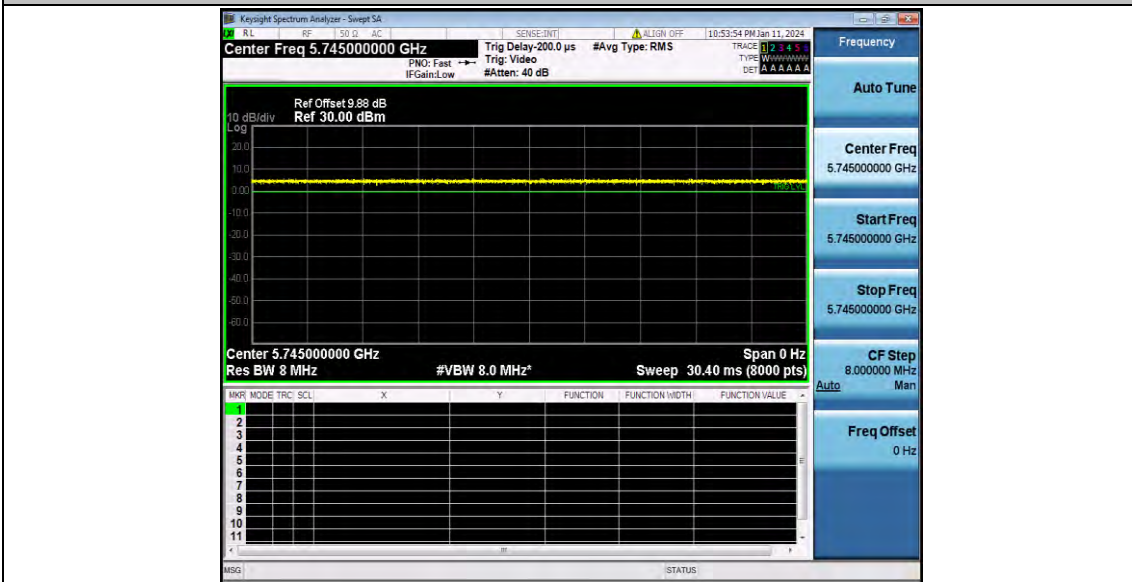
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5745	30.00	30.00	100.00	0.00	0.03
		5785	30.00	30.00	100.00	0.00	0.03
		5825	30.00	30.00	100.00	0.00	0.03
11N20SISO	Ant1	5745	30.00	30.00	100.00	0.00	0.03
		5785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

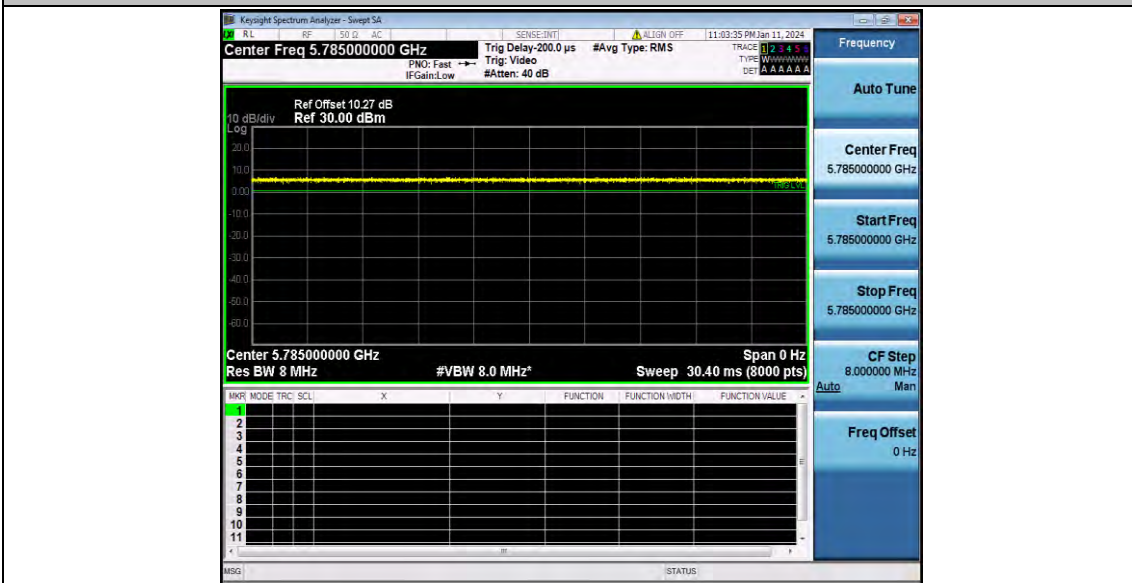




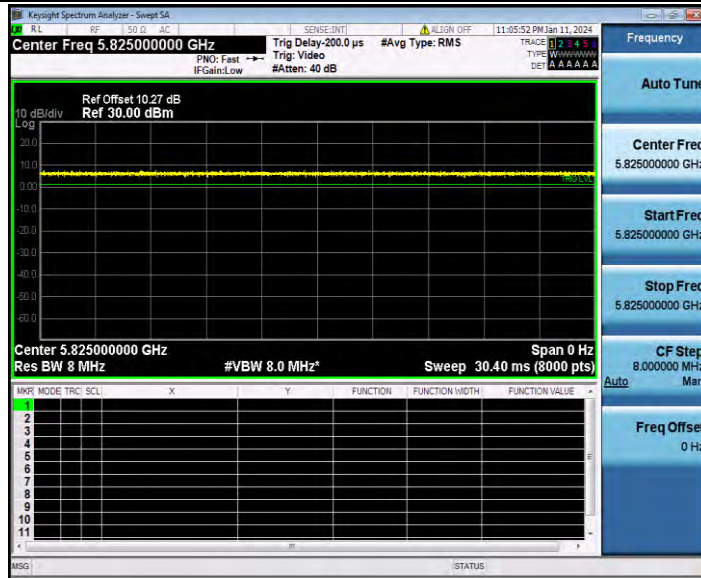
11N20SISO_Ant1_5745



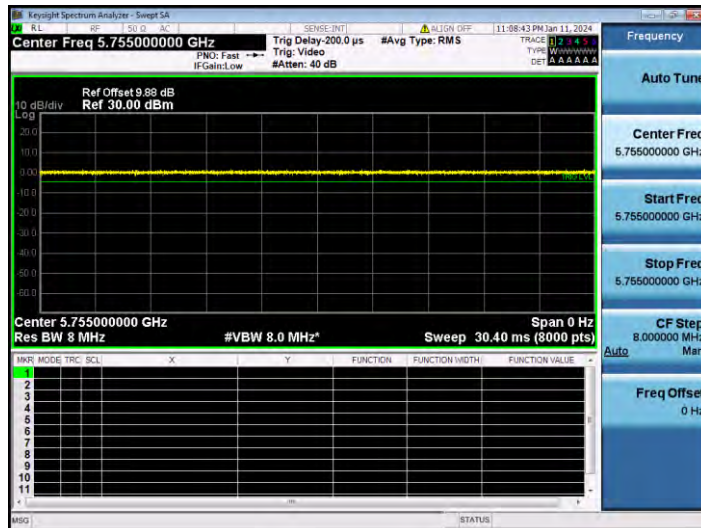
11N20SISO_Ant1_5785



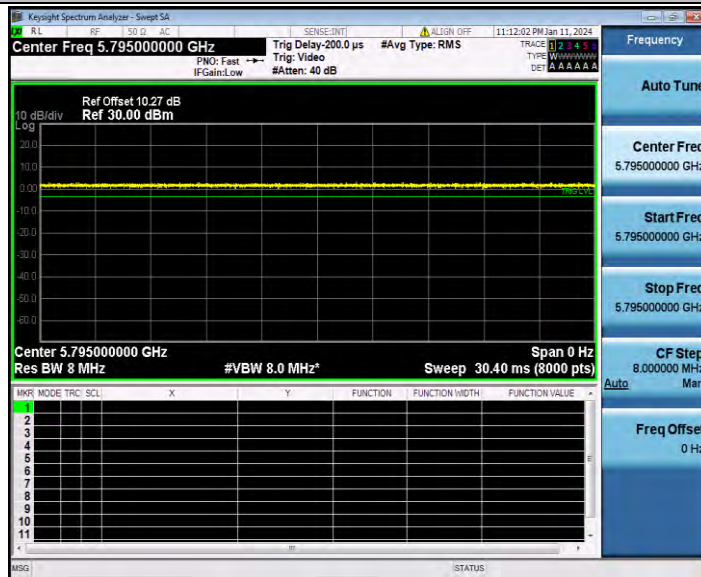
11N20SISO_Ant1_5825



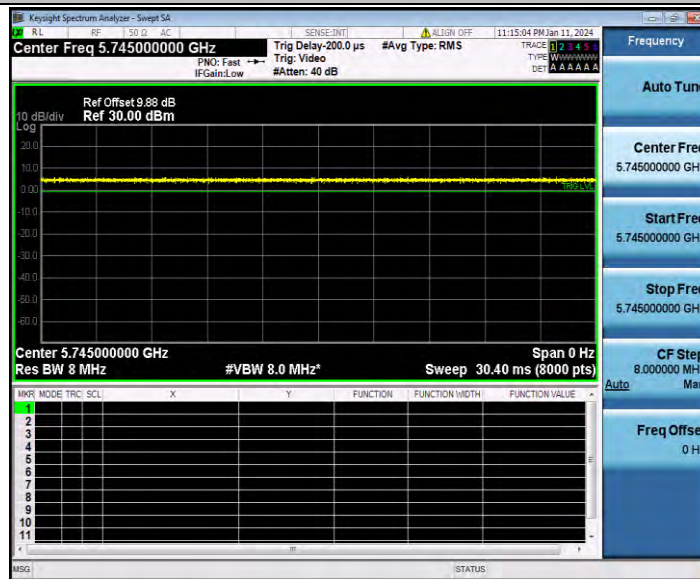
11N40SISO_Ant1_5755



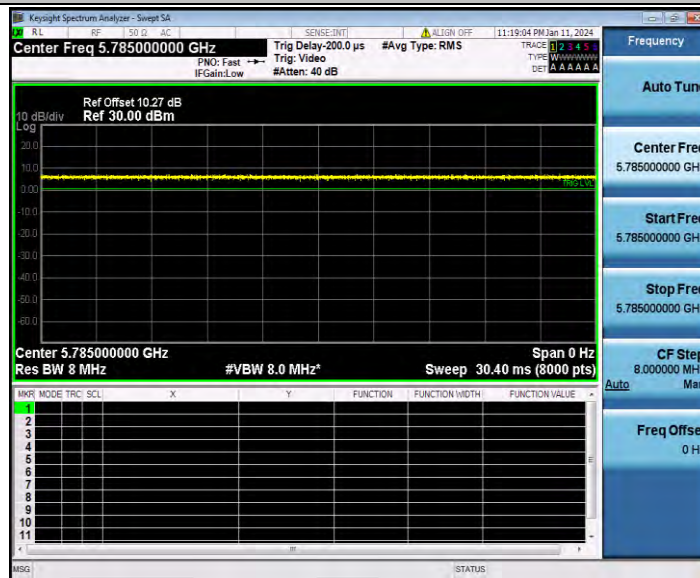
11N40SISO_Ant1_5795



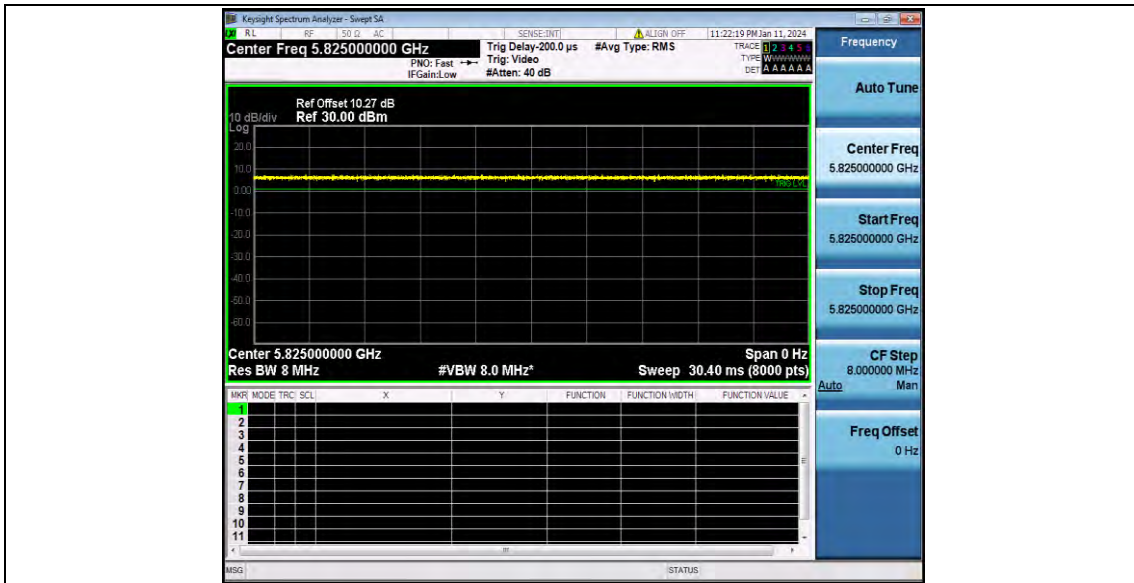
11AC20SISO_Ant1_5745



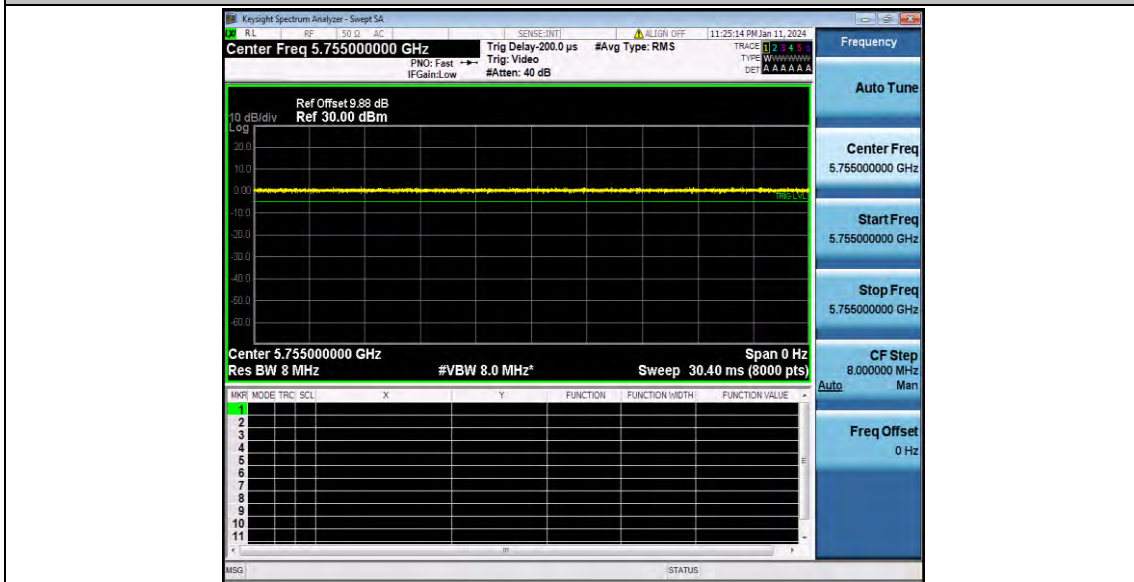
11AC20SISO_Ant1_5785



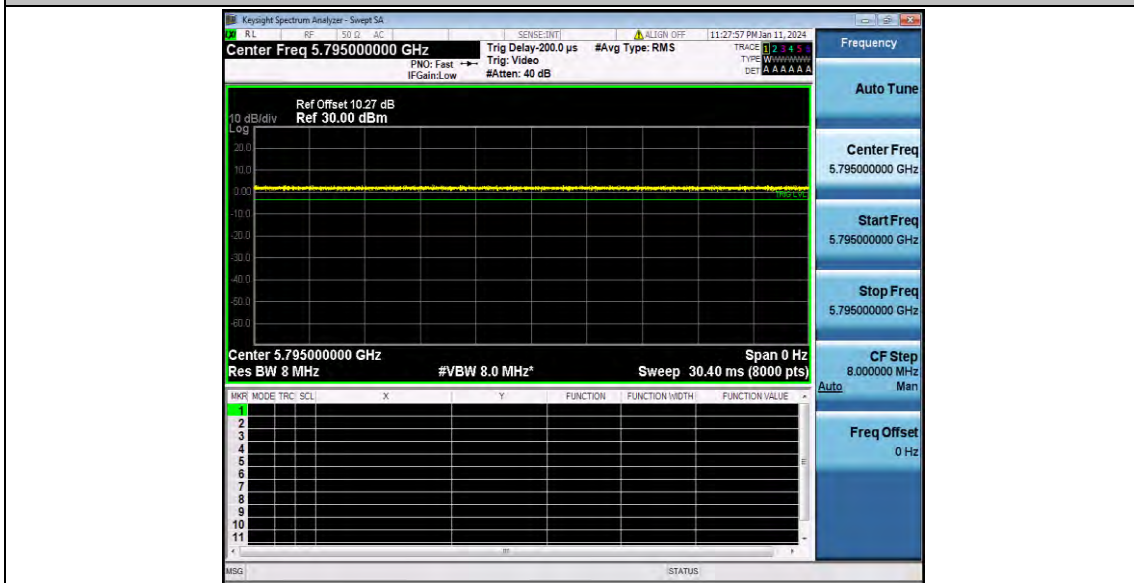
11AC20SISO_Ant1_5825

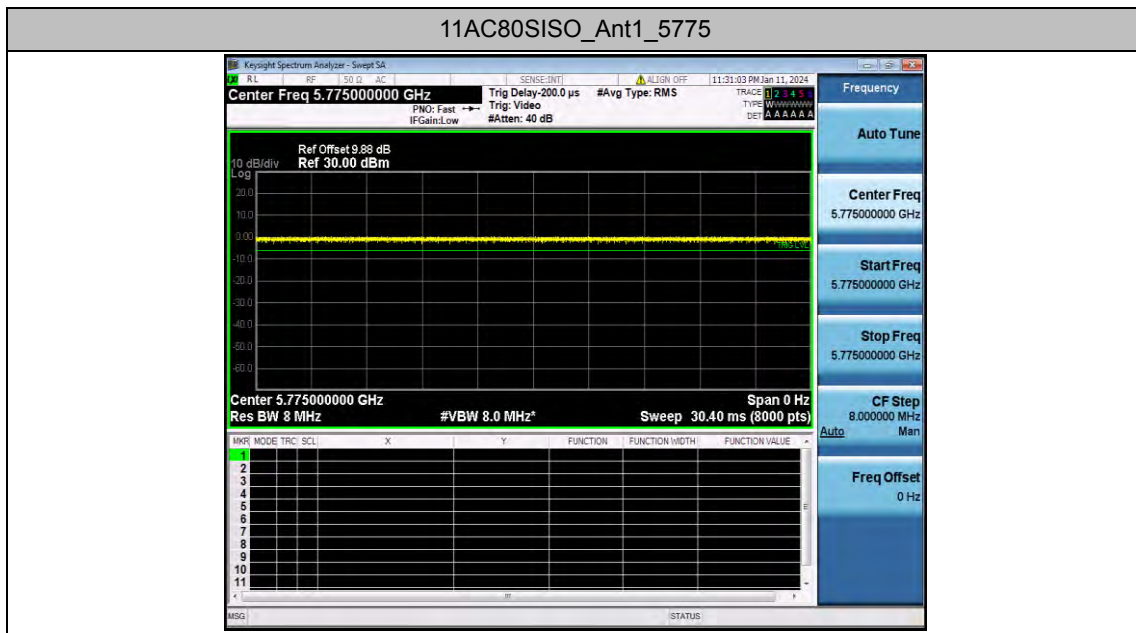


11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795





Appendix E.4: Maximum conducted output power

Test Result

Test Mode	Antenna	Freq (MHz)	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	13.15	100.00	0.00	13.15	≤30.00	PASS
		5785	14.71	100.00	0.00	14.71	≤30.00	PASS
		5825	10.28	100.00	0.00	10.28	≤30.00	PASS
11N20SI SO	Ant1	5745	8.72	100.00	0.00	8.72	≤30.00	PASS
		5785	9.85	100.00	0.00	9.85	≤30.00	PASS
		5825	10.57	100.00	0.00	10.57	≤30.00	PASS
11N40SI SO	Ant1	5755	7.53	100.00	0.00	7.53	≤30.00	PASS
		5795	8.61	100.00	0.00	8.61	≤30.00	PASS
11AC20 SISO	Ant1	5745	8.63	100.00	0.00	8.63	≤30.00	PASS
		5785	9.84	100.00	0.00	9.84	≤30.00	PASS
		5825	10.22	100.00	0.00	10.22	≤30.00	PASS
11AC40 SISO	Ant1	5755	7.37	100.00	0.00	7.37	≤30.00	PASS
		5795	8.71	100.00	0.00	8.71	≤30.00	PASS
11AC80 SISO	Ant1	5775	9.81	100.00	0.00	9.81	≤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	-1.41	≤30.00	PASS
		5785	0.16	≤30.00	PASS
		5825	-4.05	≤30.00	PASS
11N20SISO	Ant1	5745	-6.11	≤30.00	PASS
		5785	-4.78	≤30.00	PASS
		5825	-4.13	≤30.00	PASS
11N40SISO	Ant1	5755	-9.53	≤30.00	PASS
		5795	-8.70	≤30.00	PASS
11AC20SISO	Ant1	5745	-6.09	≤30.00	PASS
		5785	-4.56	≤30.00	PASS
		5825	-4.35	≤30.00	PASS
11AC40SISO	Ant1	5755	-9.78	≤30.00	PASS
		5795	-8.66	≤30.00	PASS
11AC80SISO	Ant1	5775	-9.58	≤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



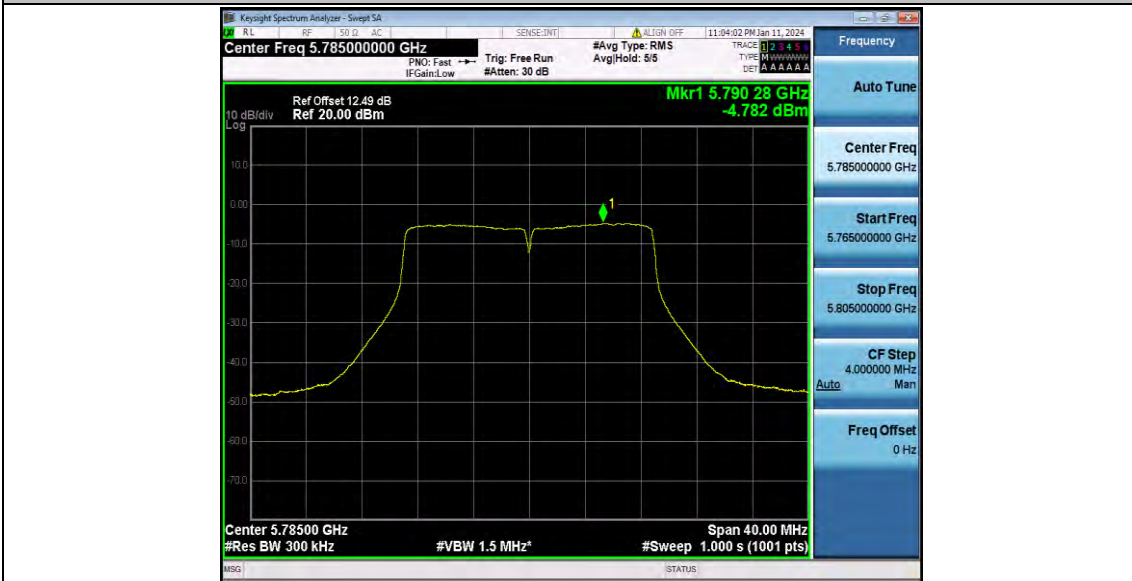
11A_Ant1_5825



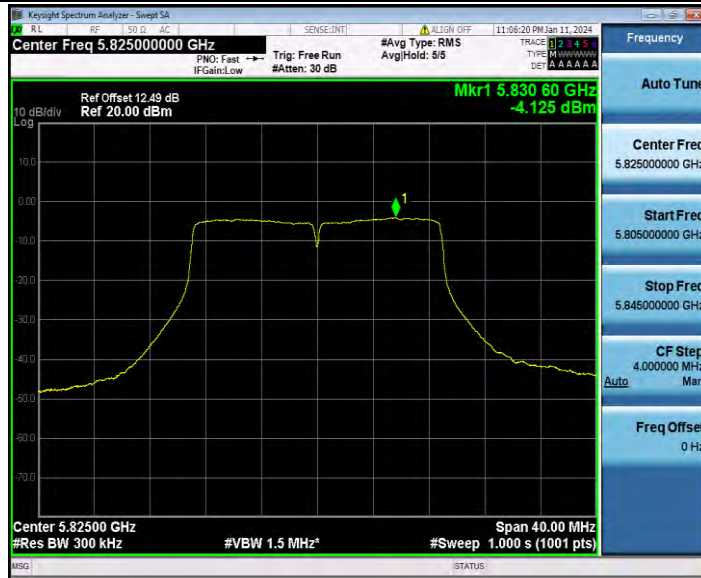
11N20SISO_Ant1_5745



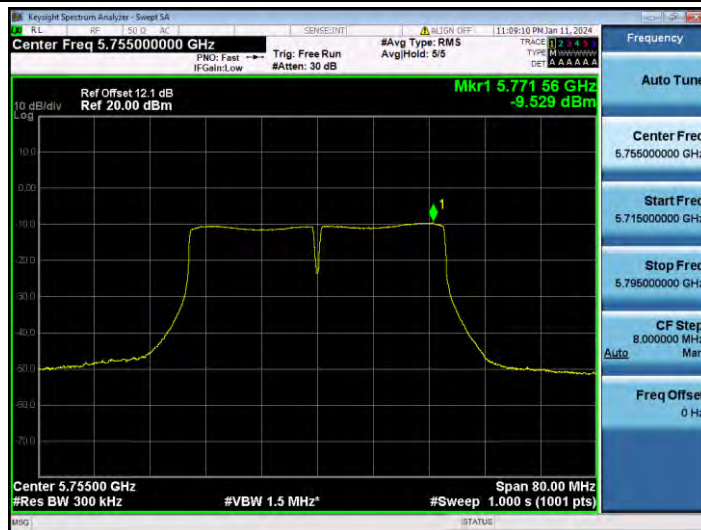
11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825

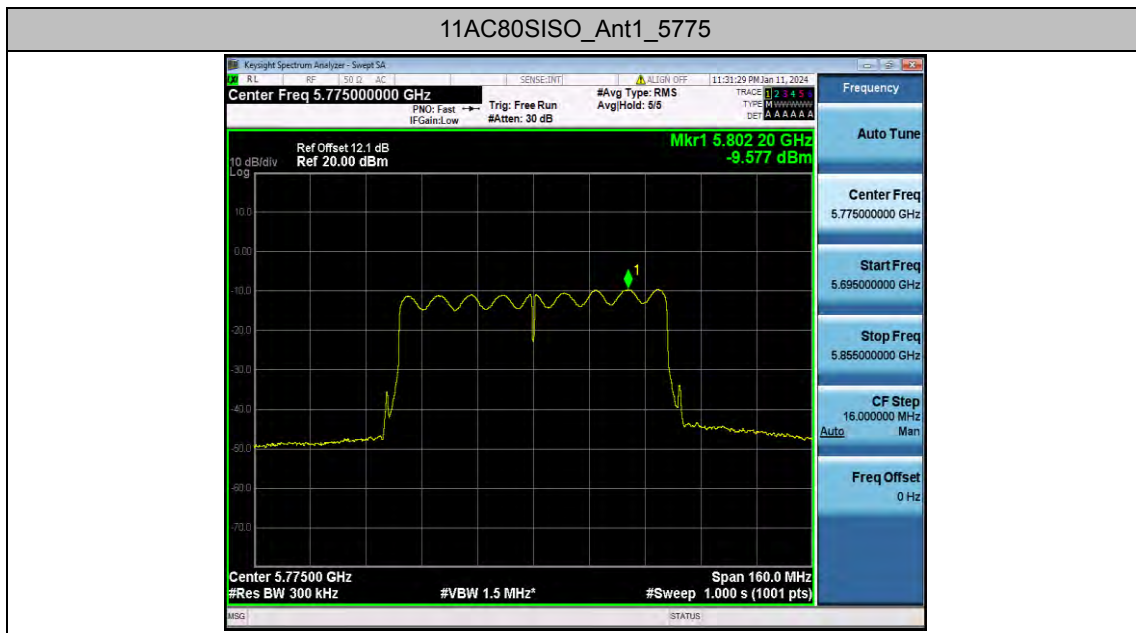


11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795





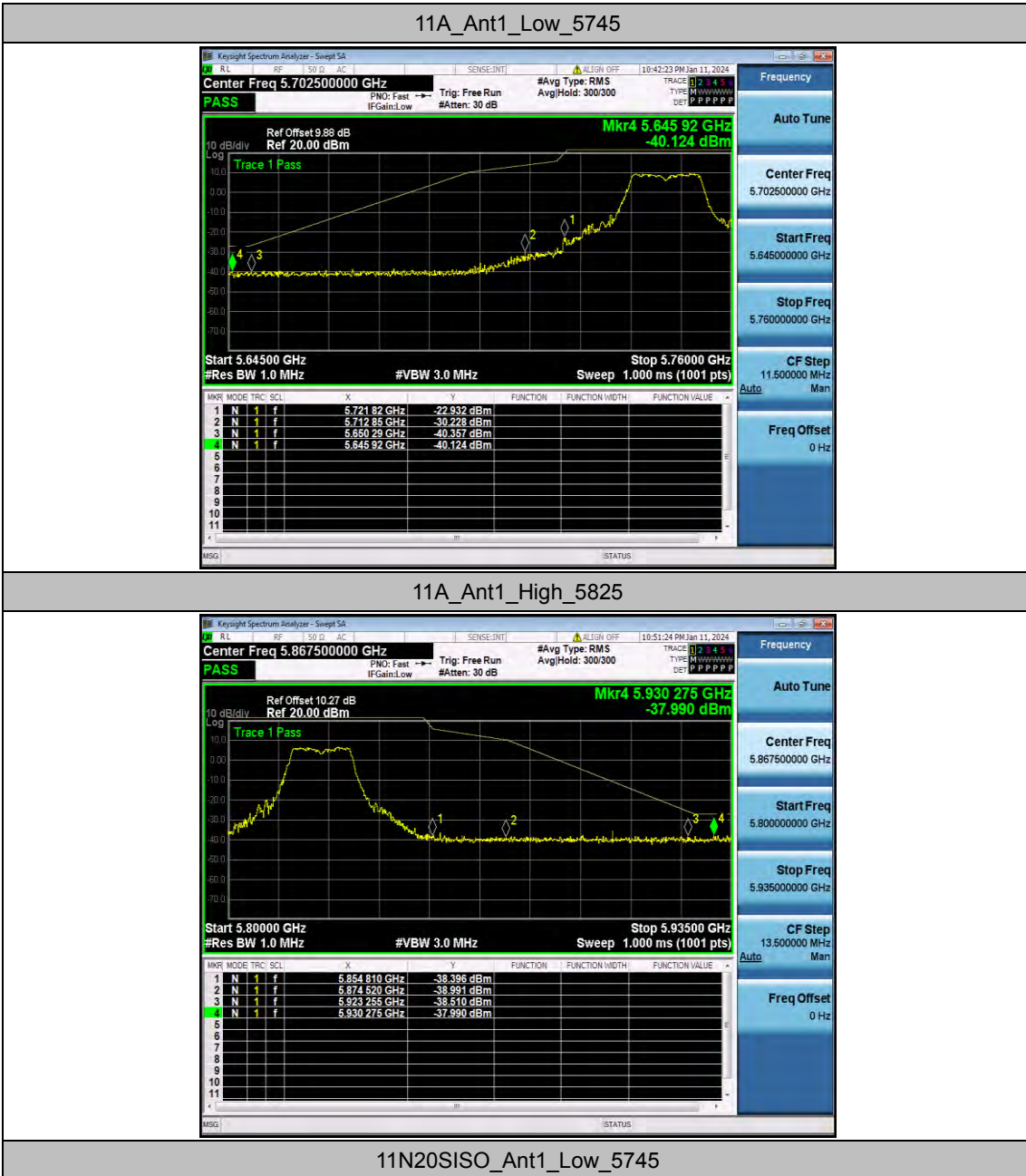
Appendix E.6: Band edge measurements

Test Result B4

TestMode	Antenna	ChName	Freq(MHz)	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-40.36	≤-26.79	PASS
				5700~5720	-30.23	≤13.60	PASS
				5720~5725	-22.93	≤19.75	PASS
				5760~5650	-40.12	≤-27	PASS
		High	5825	5850~5855	-38.4	≤16.03	PASS
				5855~5875	-38.99	≤10.13	PASS
				5875~5925	-38.51	≤-25.71	PASS
				5925~5935	-37.99	≤-27	PASS
11N20SI SO	Ant1	Low	5745	5650~5700	-39.41	≤-26.79	PASS
				5700~5720	-40.35	≤10.09	PASS
				5720~5725	-36.23	≤17.65	PASS
				5760~5650	-39.86	≤-27	PASS
		High	5825	5850~5855	-37.4	≤15.73	PASS
				5855~5875	-38.52	≤10.93	PASS
				5875~5925	-38.92	≤-26.61	PASS
				5925~5935	-38.14	≤-27	PASS
11N40SI SO	Ant1	Low	5755	5650~5700	-40.68	≤-26.70	PASS
				5700~5720	-38.77	≤10.10	PASS
				5720~5725	-36.94	≤15.74	PASS
				5780~5650	-40.21	≤-27	PASS
		High	5795	5850~5855	-40.73	≤15.66	PASS
				5855~5875	-38.93	≤10.66	PASS
				5875~5925	-38.05	≤-26.83	PASS
				5925~5935	-38.49	≤-27	PASS
11AC20S ISO	Ant1	Low	5745	5650~5700	-38.86	≤-25.34	PASS
				5700~5720	-39.38	≤10.83	PASS
				5720~5725	-35	≤17.91	PASS
				5760~5650	-38.96	≤-27	PASS
		High	5825	5850~5855	-34.75	≤19.73	PASS
				5855~5875	-38.45	≤10.06	PASS
				5875~5925	-39.48	≤-26.51	PASS
				5925~5935	-38.23	≤-27	PASS
11AC40S ISO	Ant1	Low	5755	5650~5700	-39.14	≤-25.61	PASS
				5700~5720	-38.62	≤10.67	PASS
				5720~5725	-35.95	≤16.04	PASS
				5780~5650	-38.79	≤-27	PASS

		High	5795	5850~5855	-39.83	≤ 16.03	PASS
				5855~5875	-38.94	≤ 10.02	PASS
				5875~5925	-38.72	≤ -26.46	PASS
				5925~5935	-39.05	≤ -27	PASS
11AC80S ISO	Ant1	Low	5775	5650~5700	-39.55	≤ -26.80	PASS
				5700~5720	-34.97	≤ 10.35	PASS
				5720~5725	-35.95	≤ 16.00	PASS
				5800~5650	-38.96	≤ -27	PASS
		High	5775	5850~5855	-31.86	≤ 18.37	PASS
				5855~5875	-34.56	≤ 10.97	PASS
				5875~5925	-40.38	≤ -26.87	PASS
				5925~5935	-37.62	≤ -27	PASS

Test Graphs B4

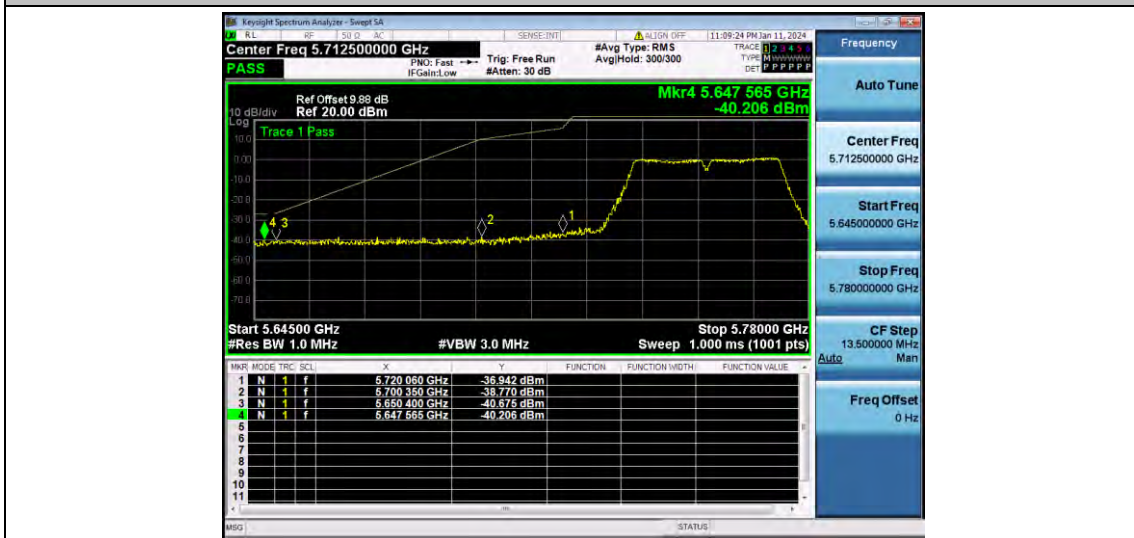




11N20SISO_Ant1_High_5825



11N40SISO_Ant1_Low_5755



11N40SISO_Ant1_High_5795



11AC20SISO_Ant1_Low_5745



11AC20SISO_Ant1_High_5825



11AC40SISO_Ant1_Low_5755



11AC40SISO_Ant1_High_5795



11AC80SISO_Ant1_Low_5775



11AC80SISO_Ant1_High_5775



Appendix E.7: Conducted Spurious Emission

Test Result

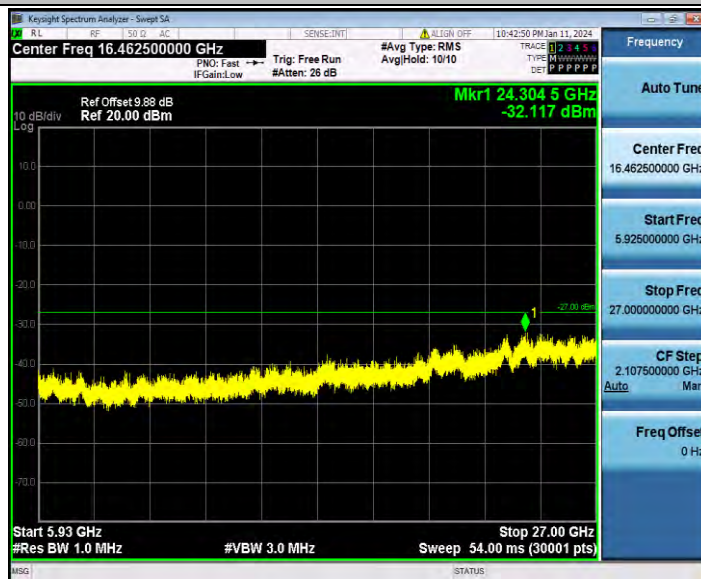
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	30~5650	5451.43	-40.12	≤-27	PASS
			5925~40000	24304.51	-32.12	≤-27	PASS
		5785	30~5650	5464.91	-39.79	≤-27	PASS
			5925~40000	26437.3	-29.17	≤-27	PASS
		5825	30~5650	2670.28	-39.87	≤-27	PASS
			5925~40000	24806.09	-31.63	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	5633.51	-40.04	≤-27	PASS
			5925~40000	24194.22	-32.12	≤-27	PASS
		5785	30~5650	5422.02	-39.33	≤-27	PASS
			5925~40000	26011.58	-30.4	≤-27	PASS
		5825	30~5650	5127.15	-40.03	≤-27	PASS
			5925~40000	25213.54	-32	≤-27	PASS
11N40SISO	Ant1	5755	30~5650	5479.34	-40.07	≤-27	PASS
			5925~40000	26871.44	-32.4	≤-27	PASS
		5795	30~5650	5578.44	-39.63	≤-27	PASS
			5925~40000	24894.61	-30.96	≤-27	PASS
11AC20SISO	Ant1	5745	30~5650	4947.5	-40.26	≤-27	PASS
			5925~40000	26068.49	-31.68	≤-27	PASS
		5785	30~5650	4929.52	-39.55	≤-27	PASS
			5925~40000	26038.98	-31.81	≤-27	PASS
		5825	30~5650	3067.24	-40.22	≤-27	PASS
			5925~40000	25572.52	-31.98	≤-27	PASS
11AC40SISO	Ant1	5755	30~5650	5004.64	-40.26	≤-27	PASS
			5925~40000	26064.97	-32.01	≤-27	PASS
		5795	30~5650	5446.18	-40.09	≤-27	PASS
			5925~40000	24306.62	-31.79	≤-27	PASS
11AC80SISO	Ant1	5775	30~5650	5409.28	-40.01	≤-27	PASS
			5925~40000	25255.69	-32.61	≤-27	PASS

Test Graphs

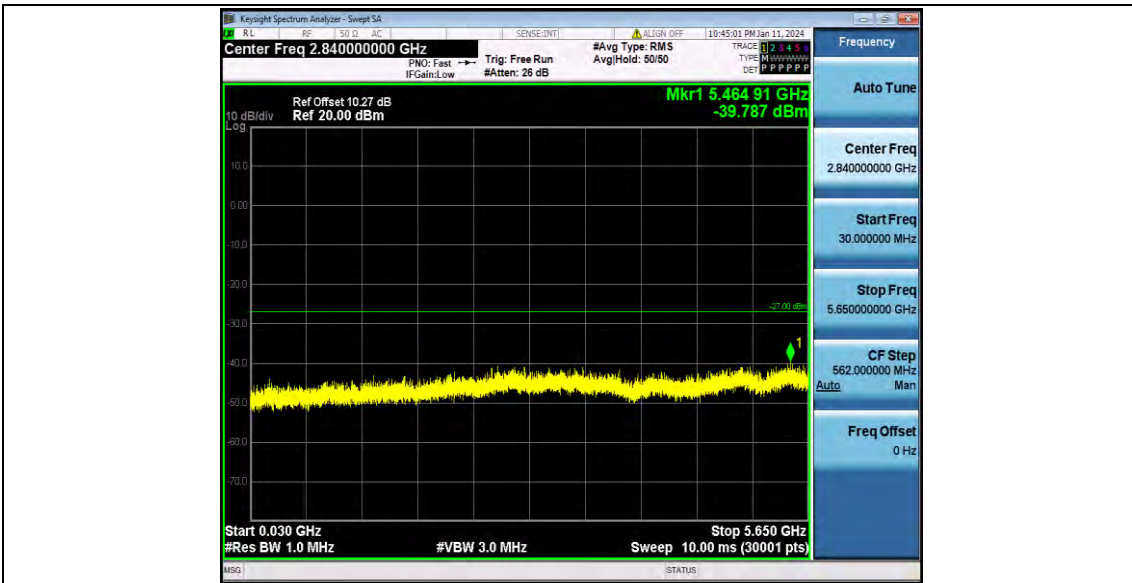
11A_Ant1_5745_30~5650



11A_Ant1_5745_5925~40000



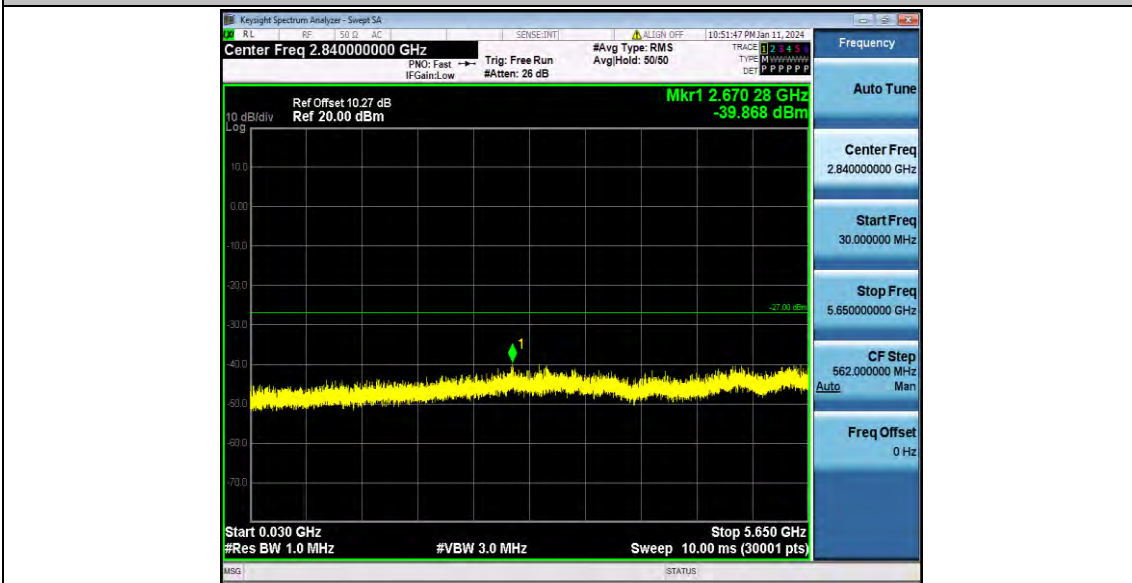
11A_Ant1_5785_30~5650



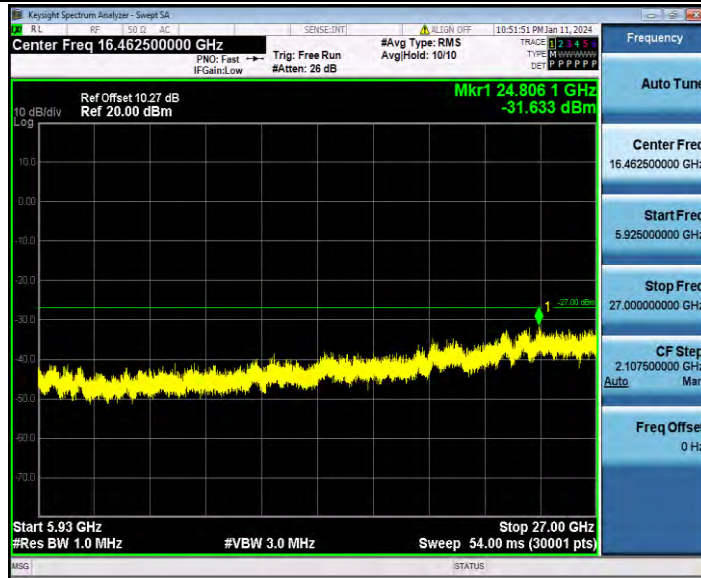
11A_Ant1_5785_5925~40000



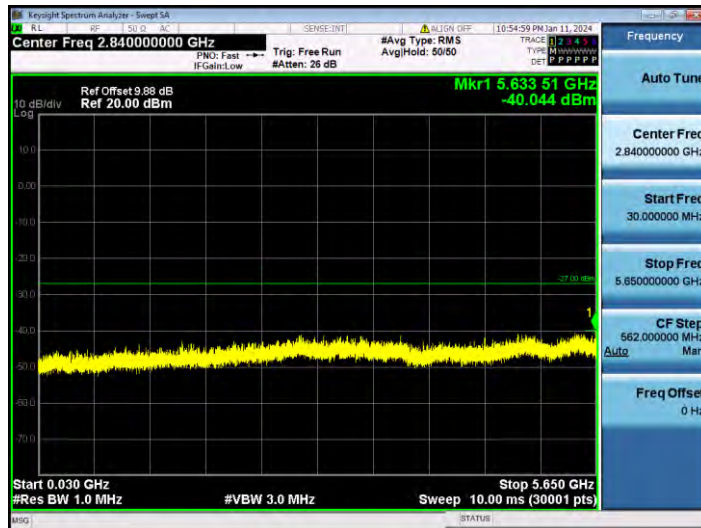
11A_Ant1_5825_30~5650



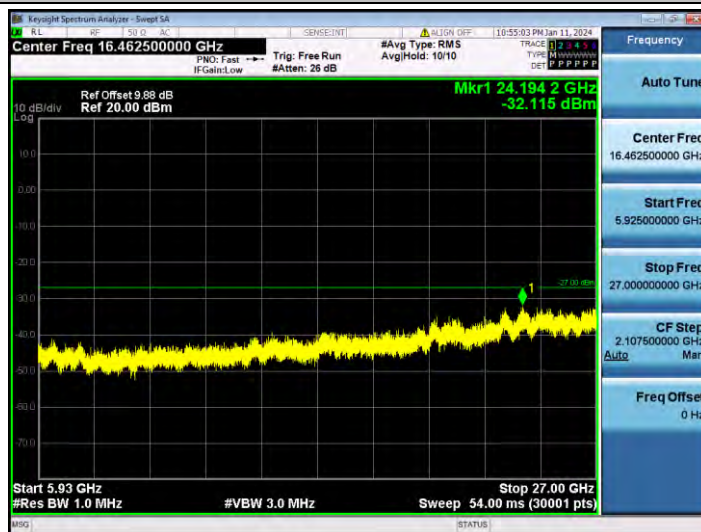
11A_Ant1_5825_5925~40000



11N20SISO_Ant1_5745_30~5650



11N20SISO_Ant1_5745_5925~40000



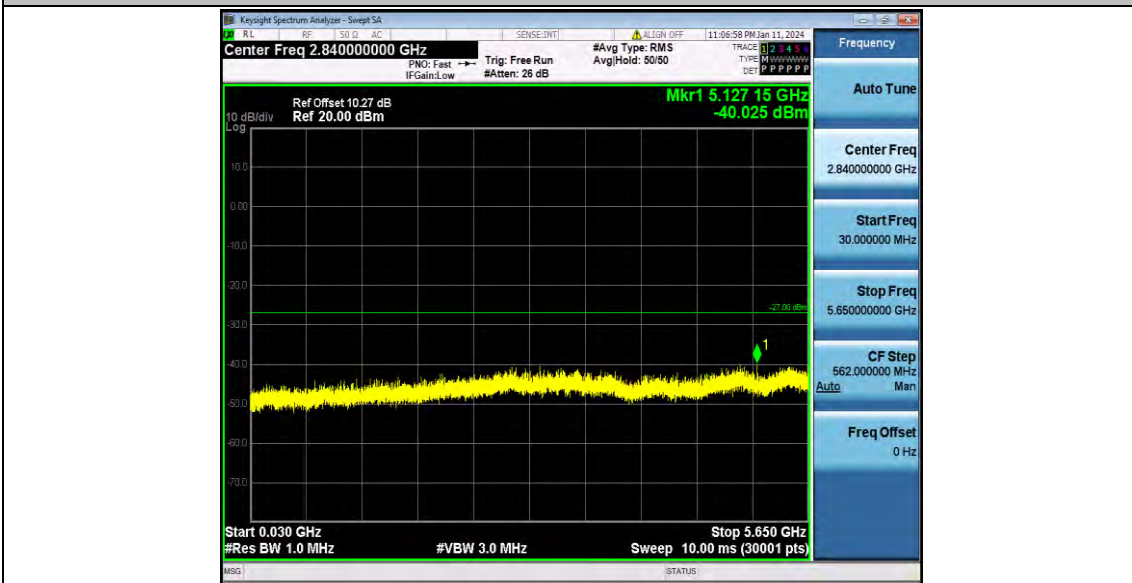
11N20SISO_Ant1_5785_30~5650



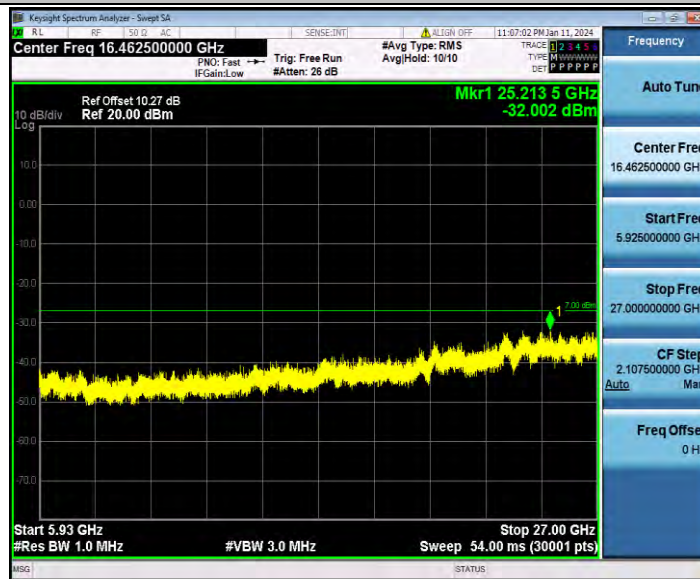
11N20SISO_Ant1_5785_5925~40000



11N20SISO_Ant1_5825_30~5650



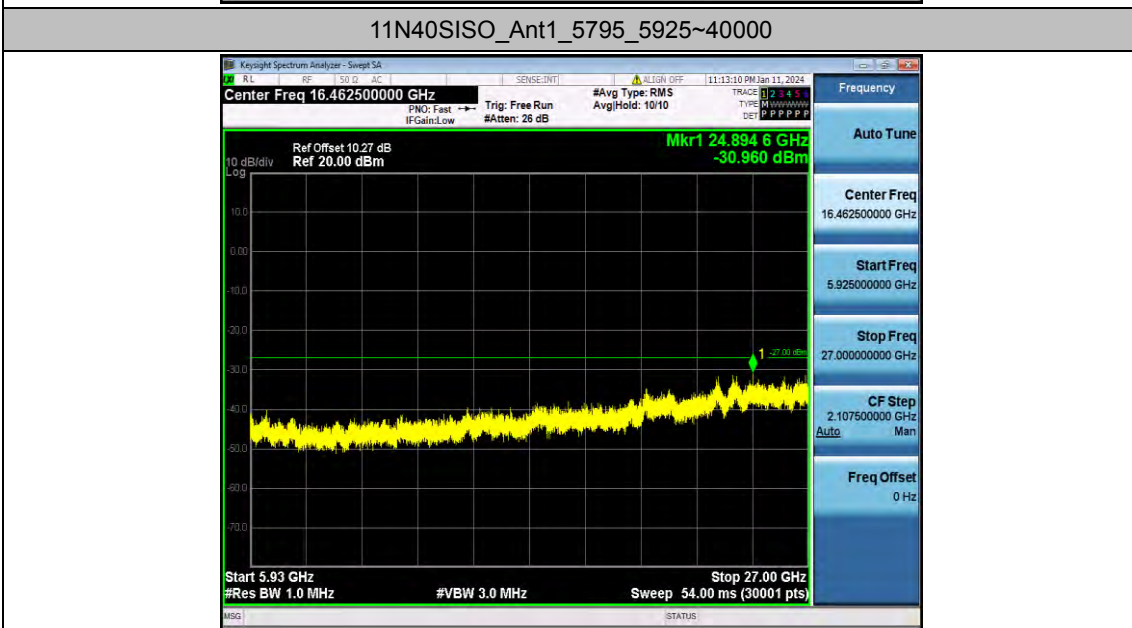
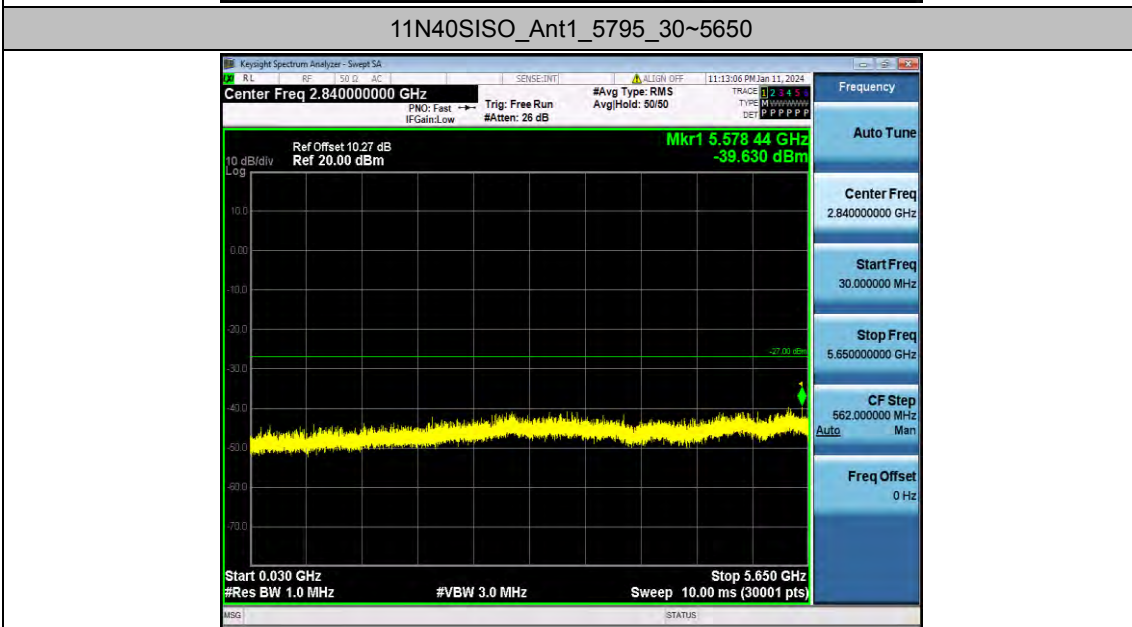
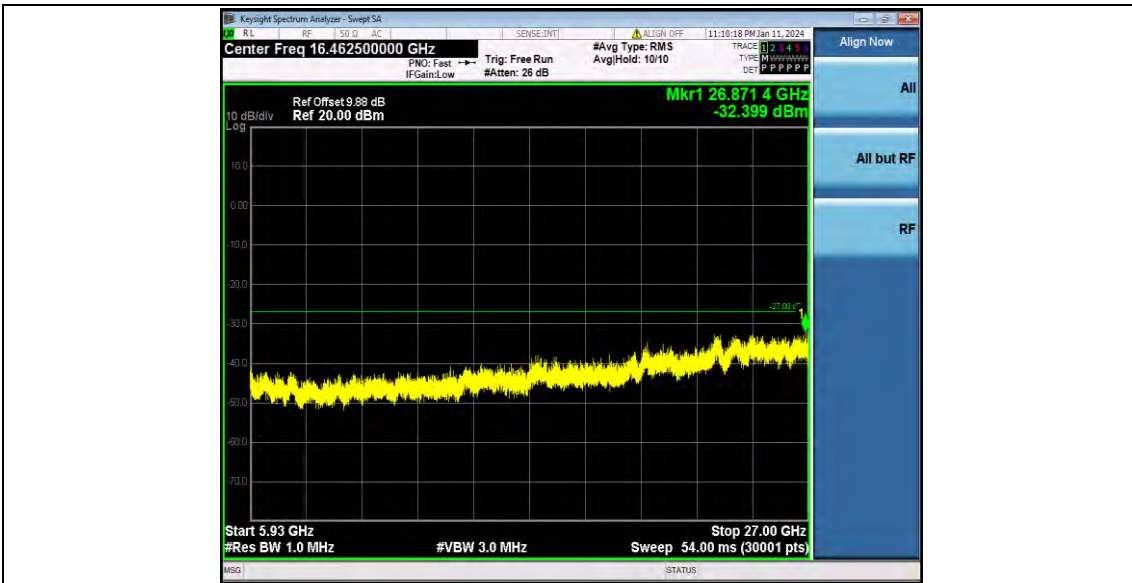
11N20SISO_Ant1_5825_5925~40000



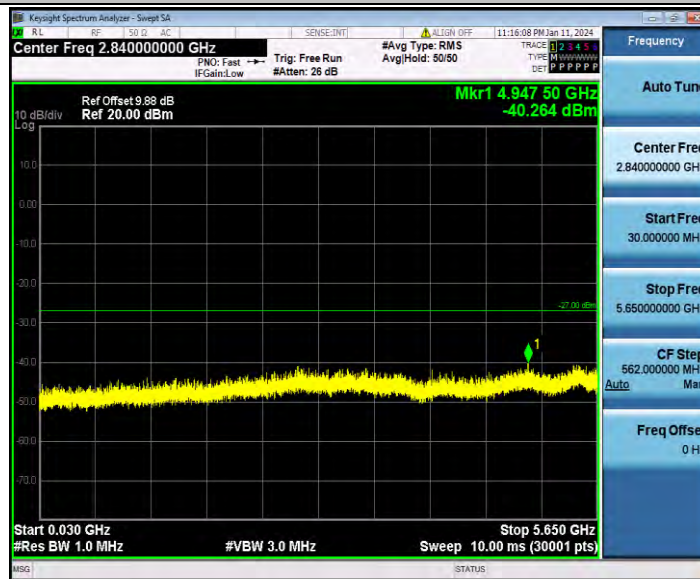
11N40SISO_Ant1_5755_30~5650



11N40SISO_Ant1_5755_5925~40000



11AC20SISO_Ant1_5745_30~5650



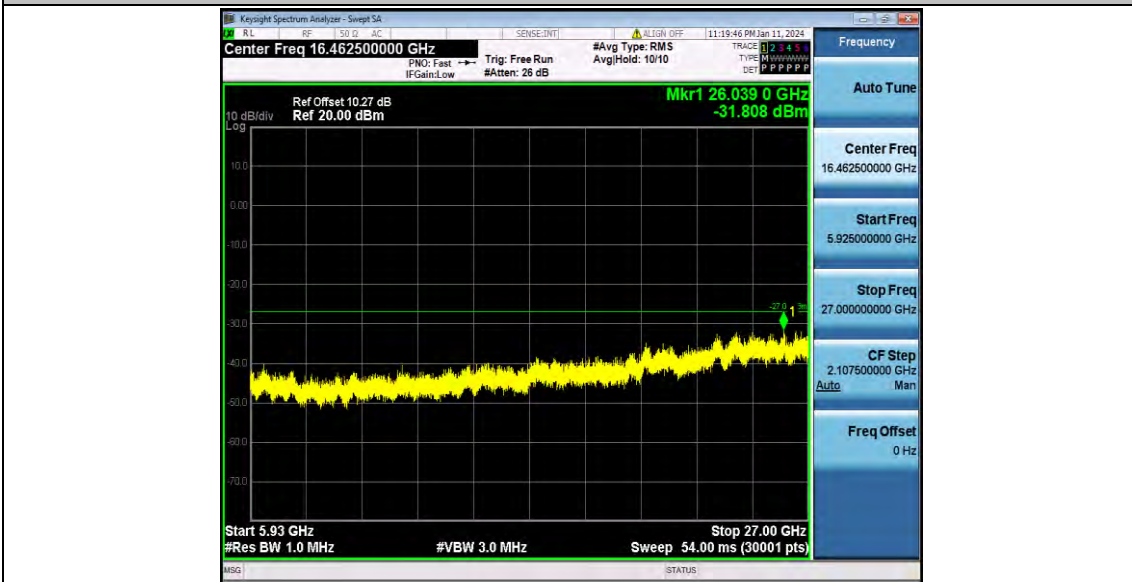
11AC20SISO_Ant1_5745_5925~40000



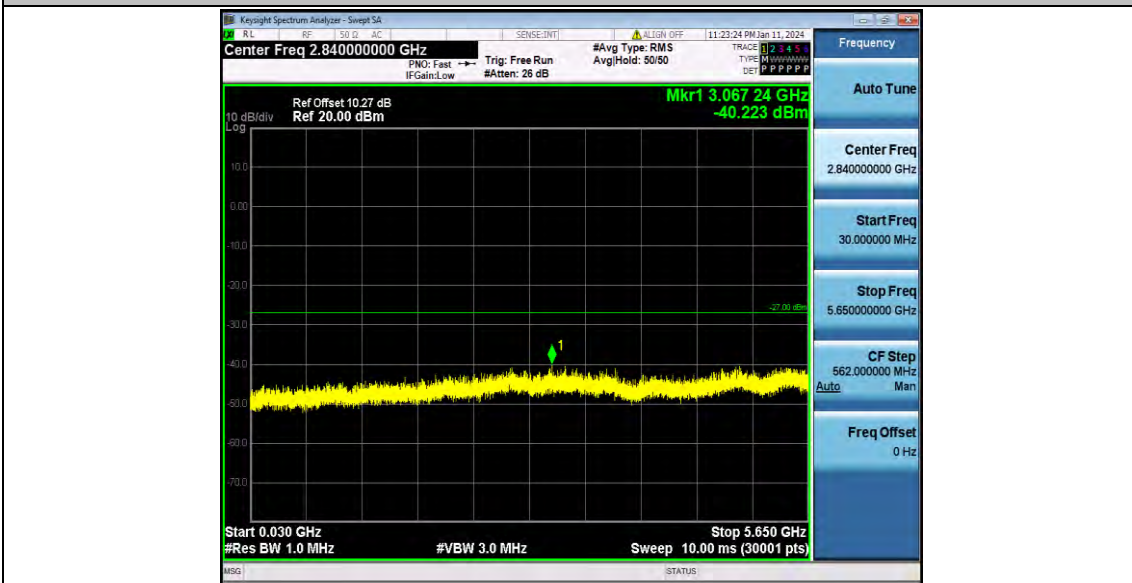
11AC20SISO_Ant1_5785_30~5650



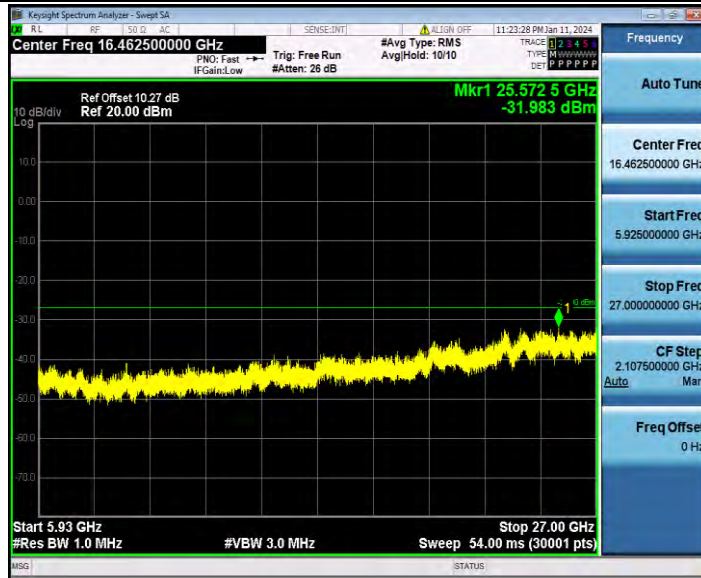
11AC20SISO_Ant1_5785_5925~4000



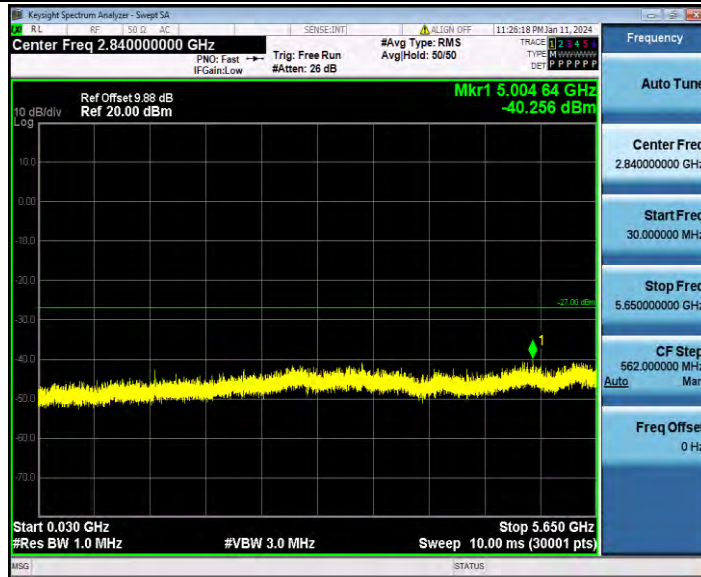
11AC20SISO_Ant1_5825_30~5650



11AC20SISO_Ant1_5825_5925~40000



11AC40SISO_Ant1_5755_30~5650



11AC40SISO_Ant1_5755_5925~40000



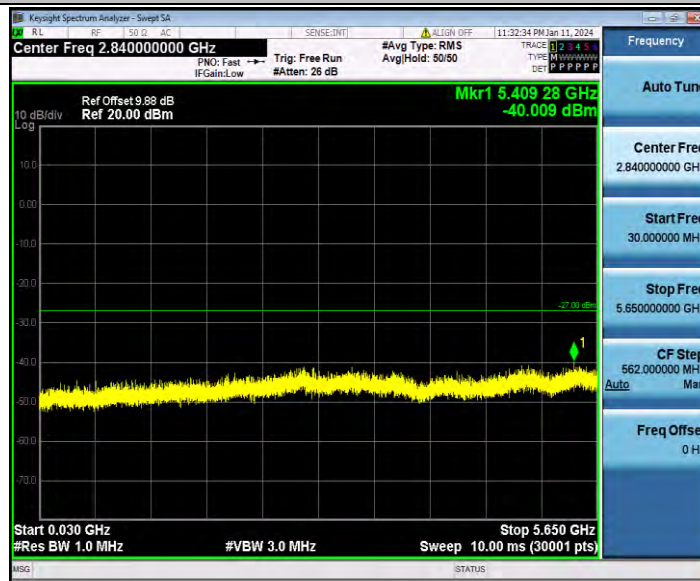
11AC40SISO_Ant1_5795_30~5650



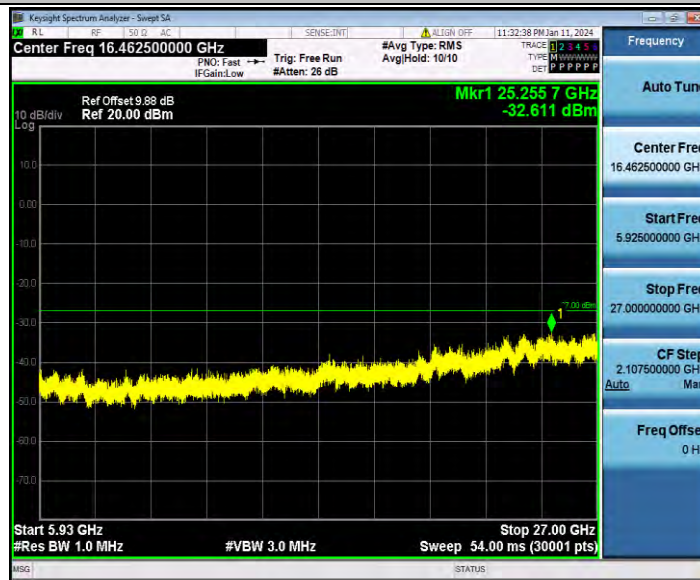
11AC40SISO_Ant1_5795_5925~40000



11AC80SISO_Ant1_5775_30~5650



11AC80SISO_Ant1_5775_5925~40000



Appendix E.8: Emissions in Restricted Bands

Test Result

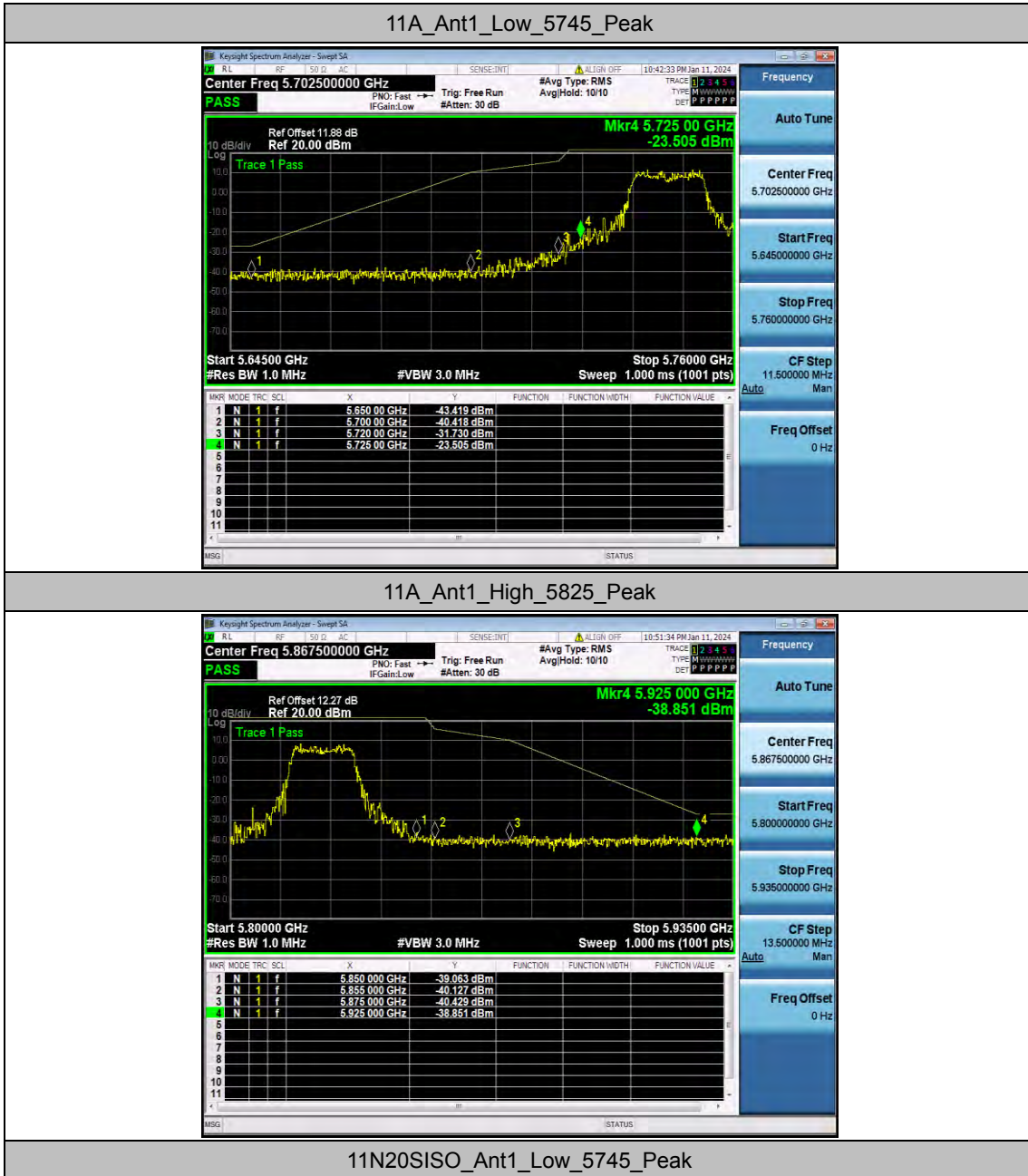
TestMode	Antenna	ChName	Freq (MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	Peak	5650.000	-43.419	≤-27.00	PASS
				Peak	5700.000	-40.42	≤10.00	PASS
				Peak	5720.000	-31.73	≤15.60	PASS
				Peak	5725.000	-23.51	≤27.00	PASS
		High	5825	Peak	5850.000	-39.063	≤27.00	PASS
				Peak	5855.000	-40.13	≤15.60	PASS
				Peak	5875.000	-40.43	≤10.00	PASS
				Peak	5925.000	-38.85	≤-27.00	PASS
11N20SISO	Ant1	Low	5745	Peak	5650.000	-40.088	≤-27.00	PASS
				Peak	5700.000	-41.24	≤10.00	PASS
				Peak	5720.000	-39.85	≤15.60	PASS
				Peak	5725.000	-38.28	≤27.00	PASS
		High	5825	Peak	5850.000	-39.429	≤27.00	PASS
				Peak	5855.000	-39.79	≤15.60	PASS
				Peak	5875.000	-41.78	≤10.00	PASS
				Peak	5925.000	-40.41	≤-27.00	PASS
11N40SISO	Ant1	Low	5755	Peak	5650.000	-41.684	≤-27.00	PASS
				Peak	5700.000	-39.18	≤10.00	PASS
				Peak	5720.000	-38.88	≤15.60	PASS
				Peak	5725.000	-36.22	≤27.00	PASS
		High	5795	Peak	5850.000	-42.935	≤27.00	PASS
				Peak	5855.000	-40.23	≤15.60	PASS
				Peak	5875.000	-42.09	≤10.00	PASS
				Peak	5925.000	-41.11	≤-27.00	PASS
11AC20SISO	Ant1	Low	5745	Peak	5650.000	-40.732	≤-27.00	PASS
				Peak	5700.000	-43.8	≤10.00	PASS
				Peak	5720.000	-40.32	≤15.60	PASS
				Peak	5725.000	-37	≤27.00	PASS
		High	5825	Peak	5850.000	-37.091	≤27.00	PASS
				Peak	5855.000	-40.85	≤15.60	PASS
				Peak	5875.000	-43.59	≤10.00	PASS
				Peak	5925.000	-41.93	≤-27.00	PASS
11AC40SISO	Ant1	Low	5755	Peak	5650.000	-41.979	≤-27.00	PASS
				Peak	5700.000	-42.22	≤10.00	PASS
				Peak	5720.000	-35.45	≤15.60	PASS
				Peak	5725.000	-35.26	≤27.00	PASS

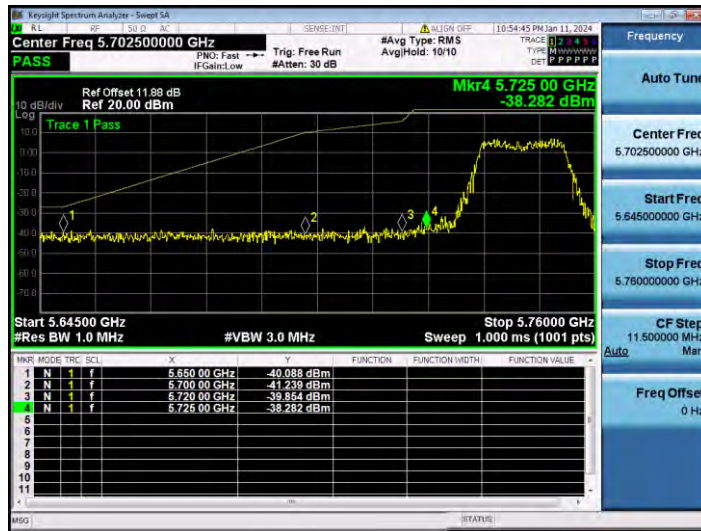
		High	5795	Peak	5850.000	-40.398	≤27.00	PASS
				Peak	5855.000	-40.26	≤15.60	PASS
				Peak	5875.000	-41.56	≤10.00	PASS
				Peak	5925.000	-41.47	≤-27.00	PASS
11AC80 SISO	Ant1	Low	5775	Peak	5650.000	-44.85	≤-27.00	PASS
				Peak	5700.000	-40.89	≤10.00	PASS
				Peak	5720.000	-37.64	≤15.60	PASS
				Peak	5725.000	-34.66	≤27.00	PASS
		High	5775	Peak	5850.000	-35.497	≤27.00	PASS
				Peak	5855.000	-36.23	≤15.60	PASS
				Peak	5875.000	-37.49	≤10.00	PASS
				Peak	5925.000	-41.39	≤-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



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

