

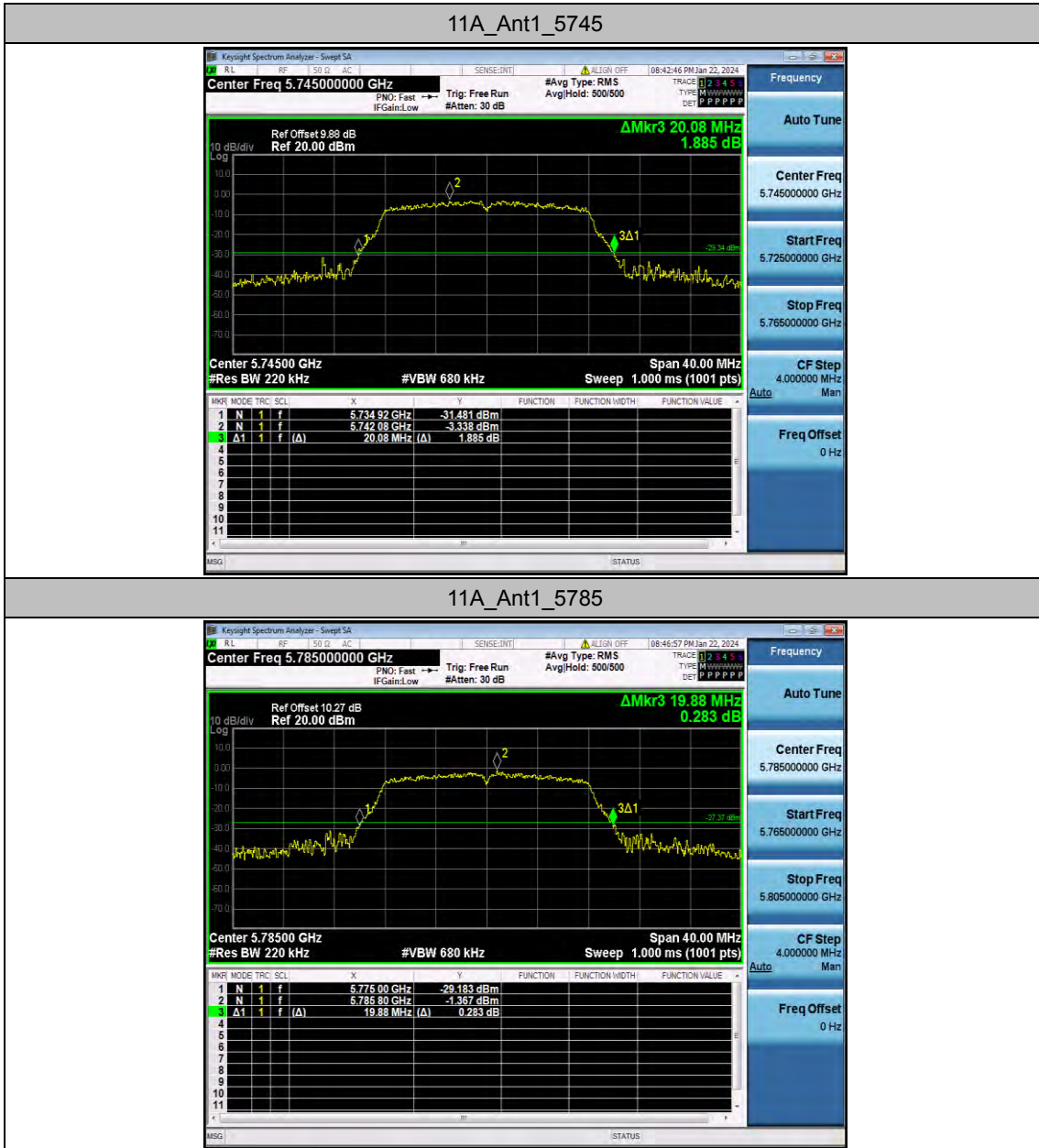
Case No. : <u>GTS20231018011-1-67</u>
Ambient Condition: <u>24</u> °C, <u>49</u> %RH
According Standard: <u>■Part15E</u>
Test Date: <u>2024.1.22</u> Test Engineer: <u>Evan ouyang</u>

Appendix G.1: Emission Bandwidth

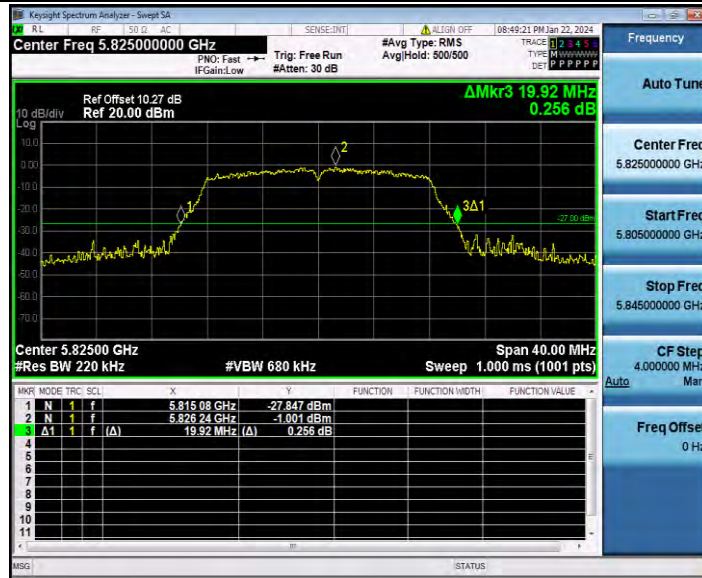
Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	20.080	5734.920	5755.000	---	---
		5785	19.880	5775.000	5794.880	---	---
		5825	19.920	5815.080	5835.000	---	---
11N20SISO	Ant1	5745	20.440	5734.800	5755.240	---	---
		5785	20.680	5774.760	5795.440	---	---
		5825	20.320	5814.800	5835.120	---	---
11N40SISO	Ant1	5755	40.720	5734.520	5775.240	---	---
		5795	40.720	5774.440	5815.160	---	---
11AC20SISO	Ant1	5745	20.320	5734.840	5755.160	---	---
		5785	20.520	5774.680	5795.200	---	---
		5825	20.280	5814.840	5835.120	---	---
11AC40SISO	Ant1	5755	40.640	5734.840	5775.480	---	---
		5795	40.960	5774.760	5815.720	---	---
11AC80SISO	Ant1	5775	81.120	5734.520	5815.640	---	---

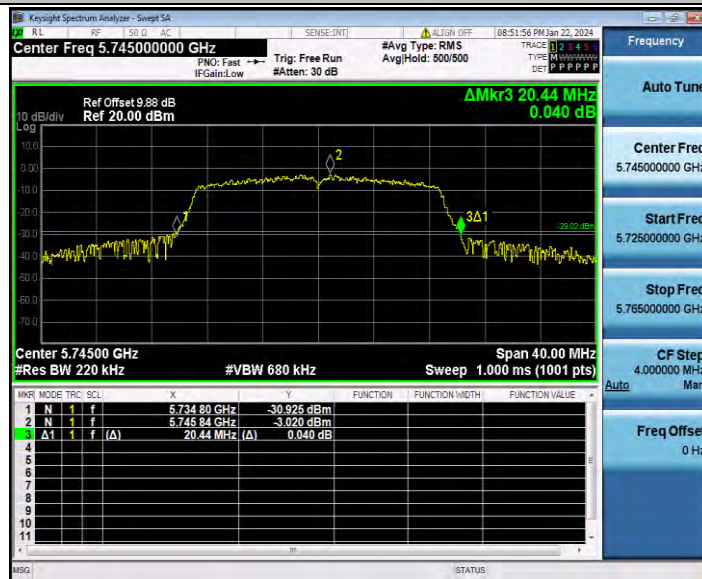
Test Graphs



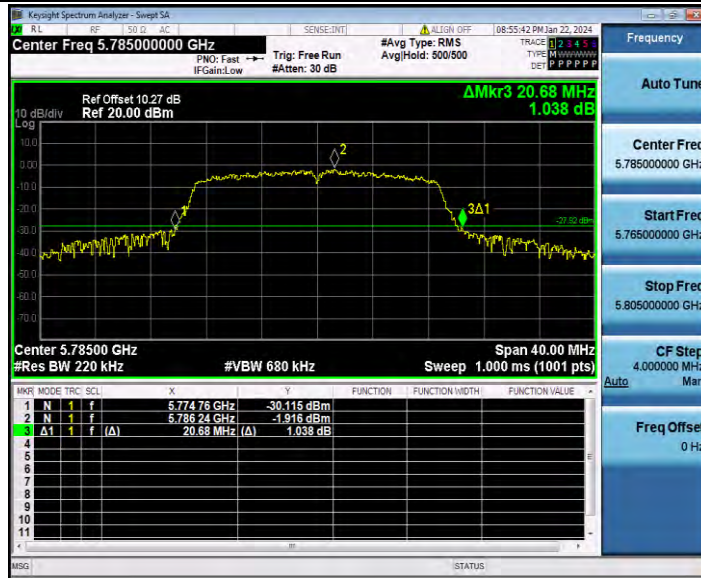
11A_Ant1_5825



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



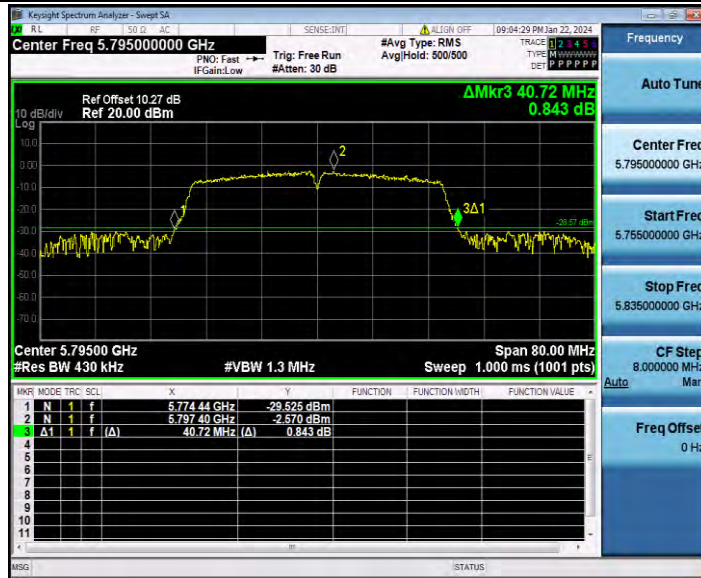
11N20SISO_Ant1_5825



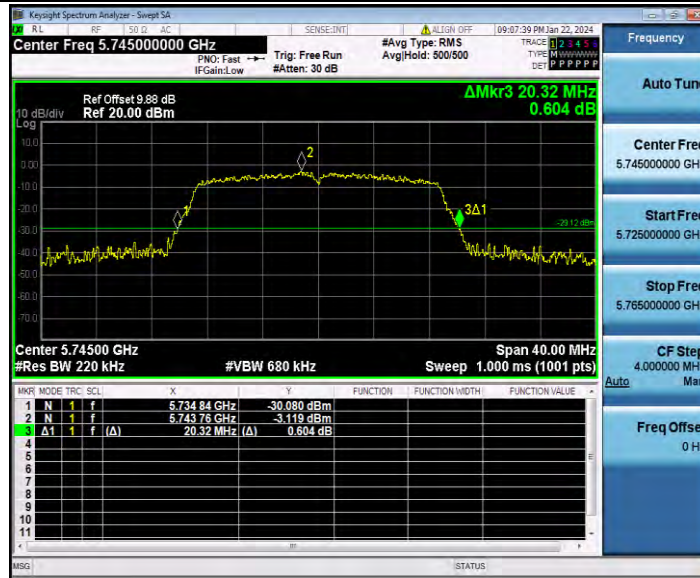
11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775

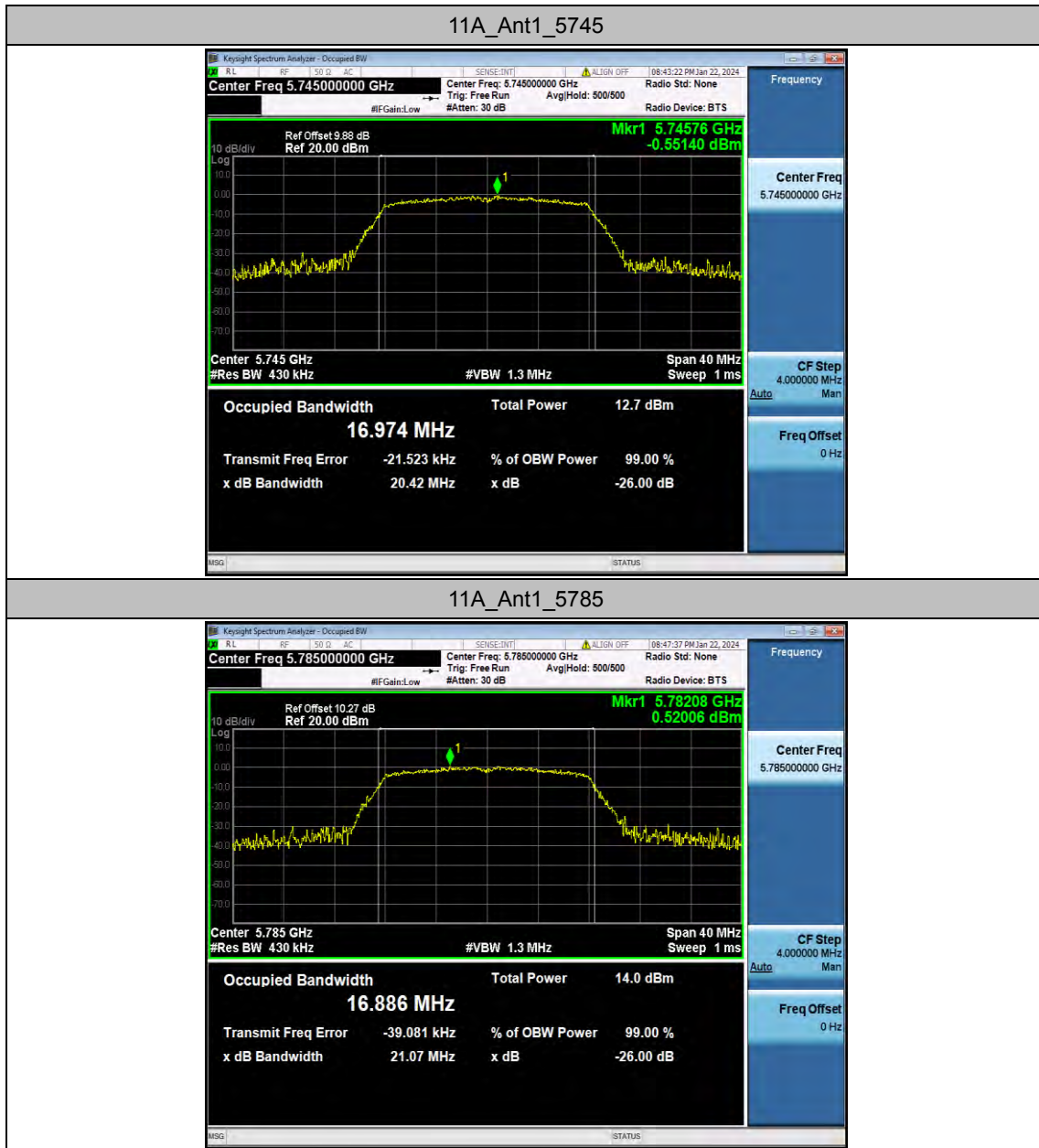


Appendix G.2: Occupied channel bandwidth

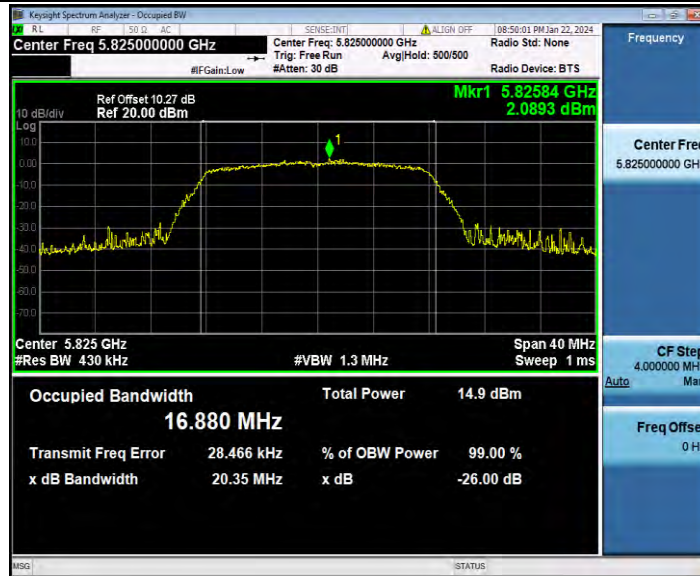
Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.974	5736.4915	5753.4655	---	---
		5785	16.886	5776.5179	5793.4039	---	---
		5825	16.880	5816.5885	5833.4685	---	---
11N20SISO	Ant1	5745	17.914	5735.9871	5753.9011	---	---
		5785	17.954	5776.0017	5793.9557	---	---
		5825	17.881	5816.0746	5833.9556	---	---
11N40SISO	Ant1	5755	36.465	5736.7956	5773.2606	---	---
		5795	36.457	5776.7924	5813.2494	---	---
11AC20SISO	Ant1	5745	17.862	5736.0503	5753.9123	---	---
		5785	17.819	5776.0724	5793.8914	---	---
		5825	17.825	5816.1100	5833.9350	---	---
11AC40SISO	Ant1	5755	36.298	5736.8772	5773.1752	---	---
		5795	36.337	5776.7987	5813.1357	---	---
11AC80SISO	Ant1	5775	75.289	5737.3870	5812.6760	---	---

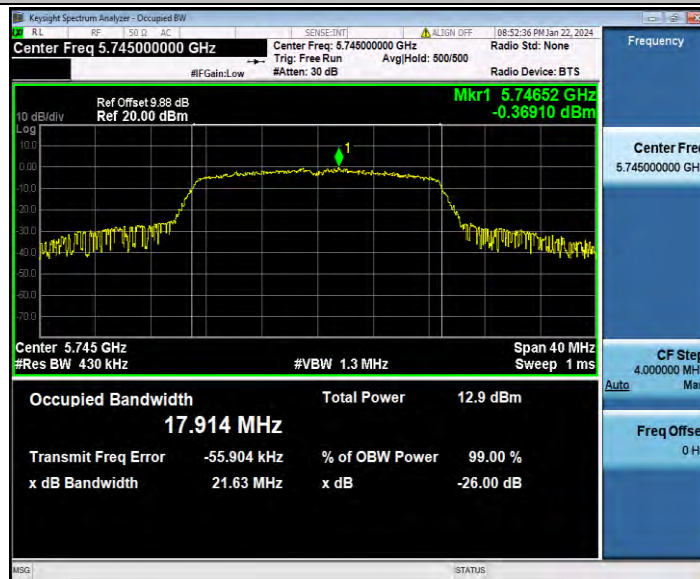
Test Graphs



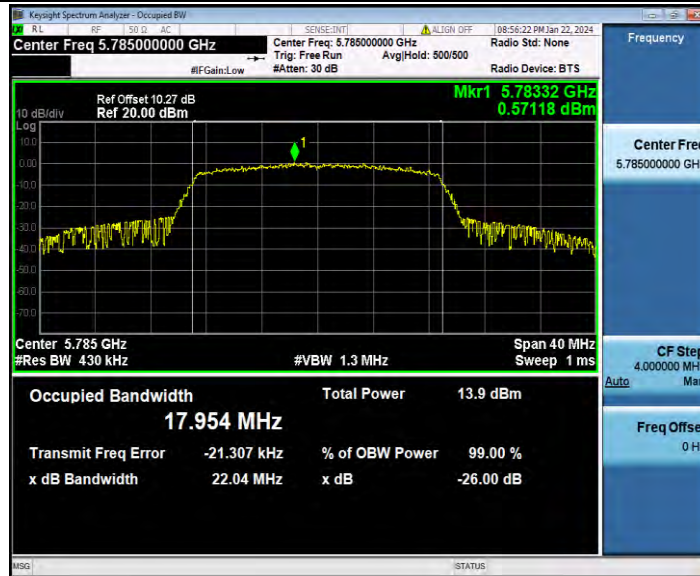
11A_Ant1_5825



11N20SISO_Ant1_5745



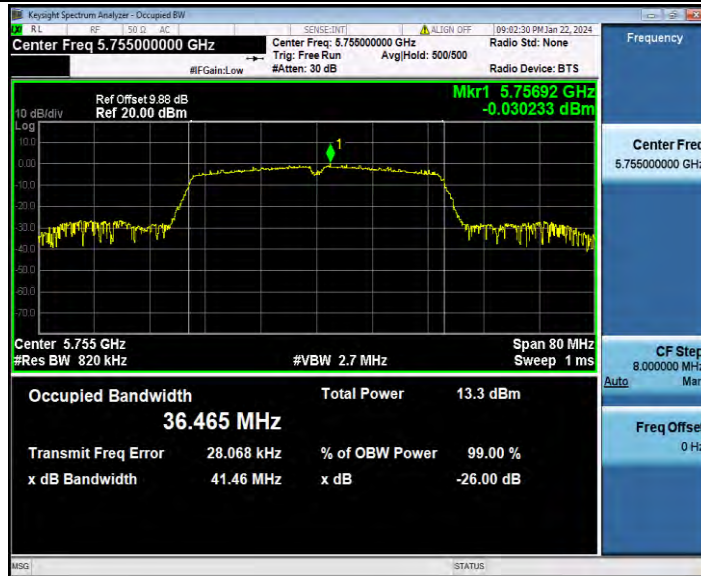
11N20SISO_Ant1_5785



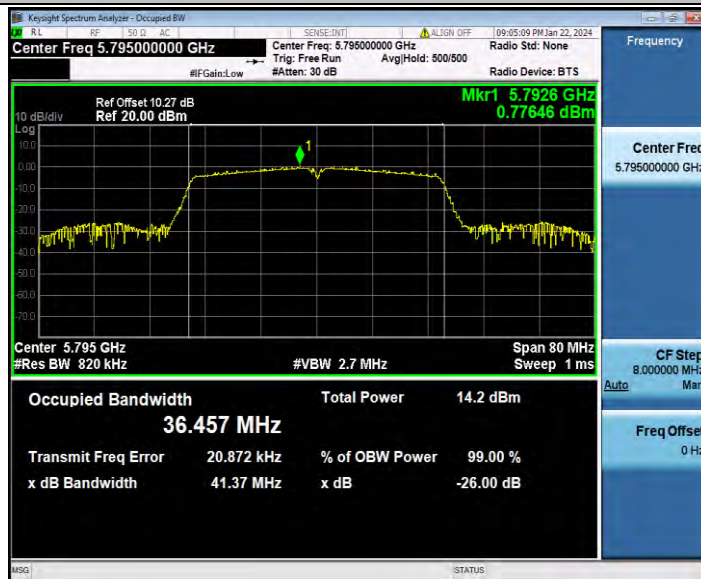
11N20SISO_Ant1_5825



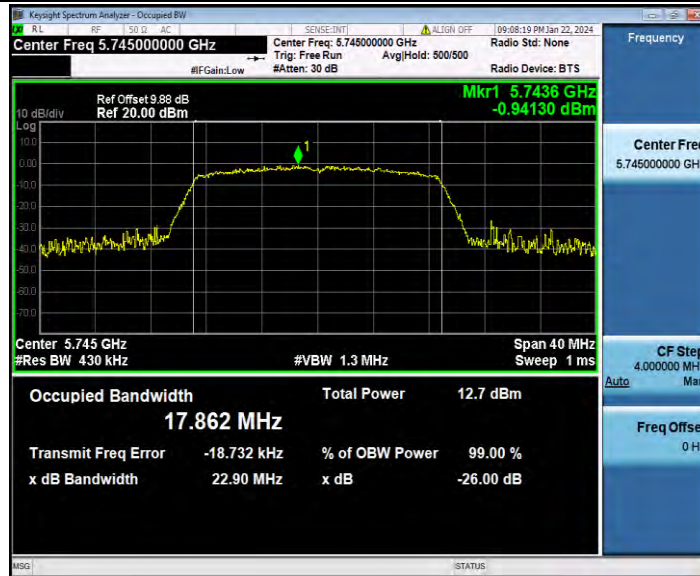
11N40SISO_Ant1_5755



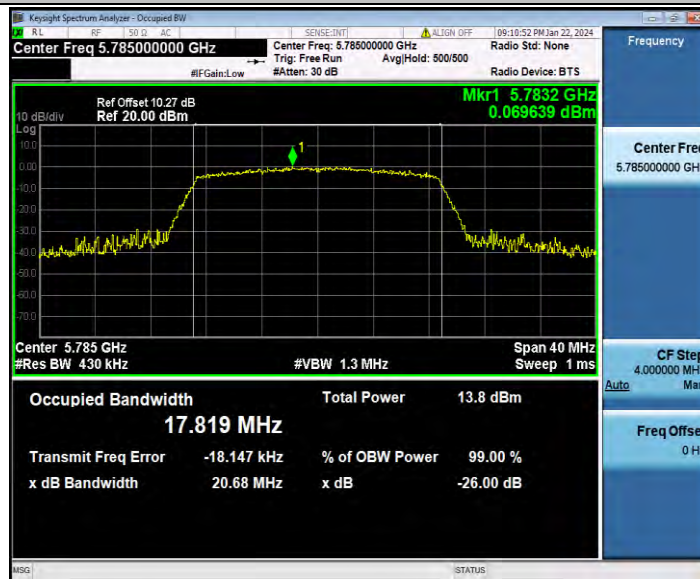
11N40SISO_Ant1_5795



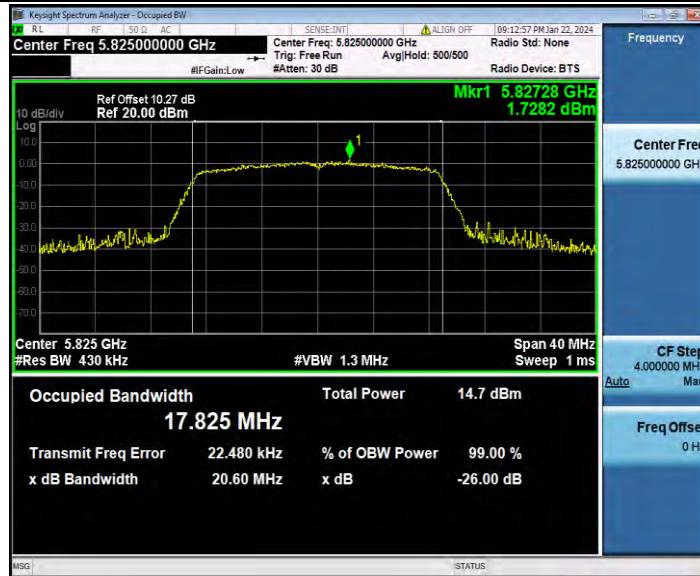
11AC20SISO_Ant1_5745



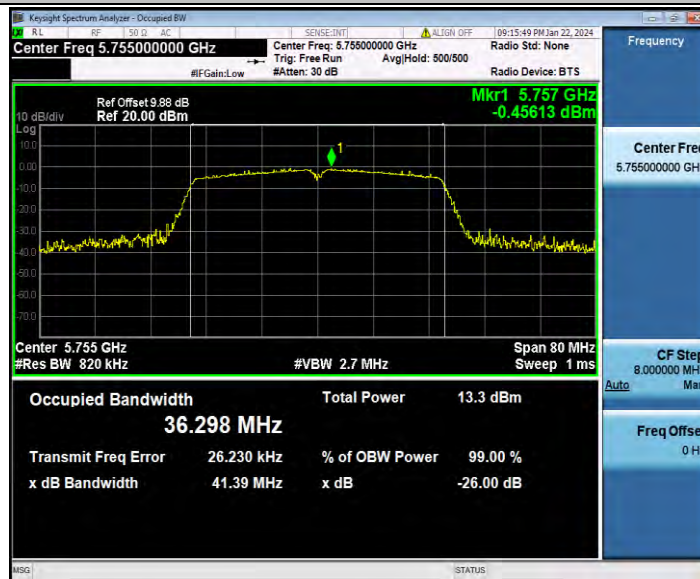
11AC20SISO_Ant1_5785



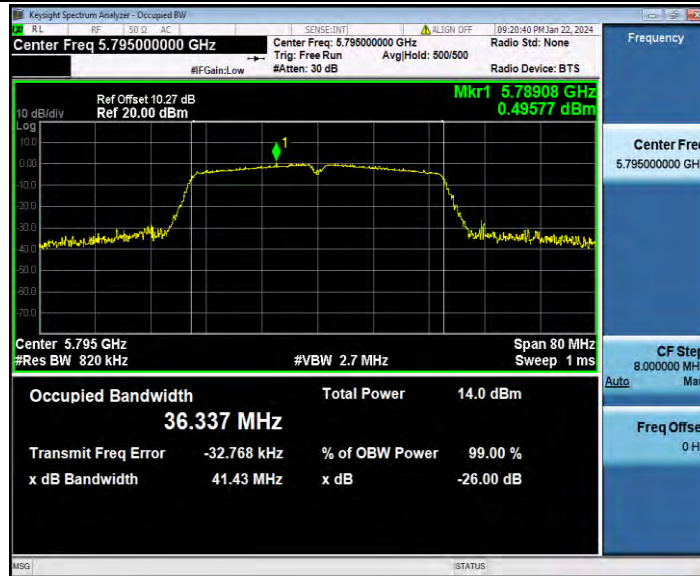
11AC20SISO_Ant1_5825



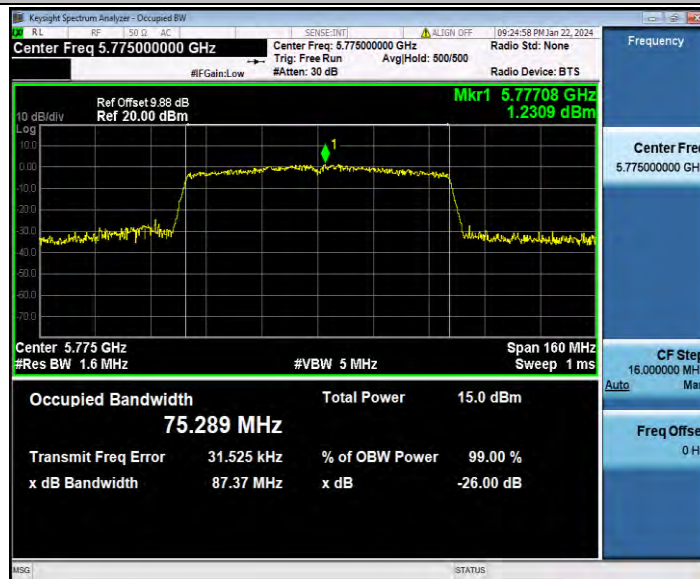
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775

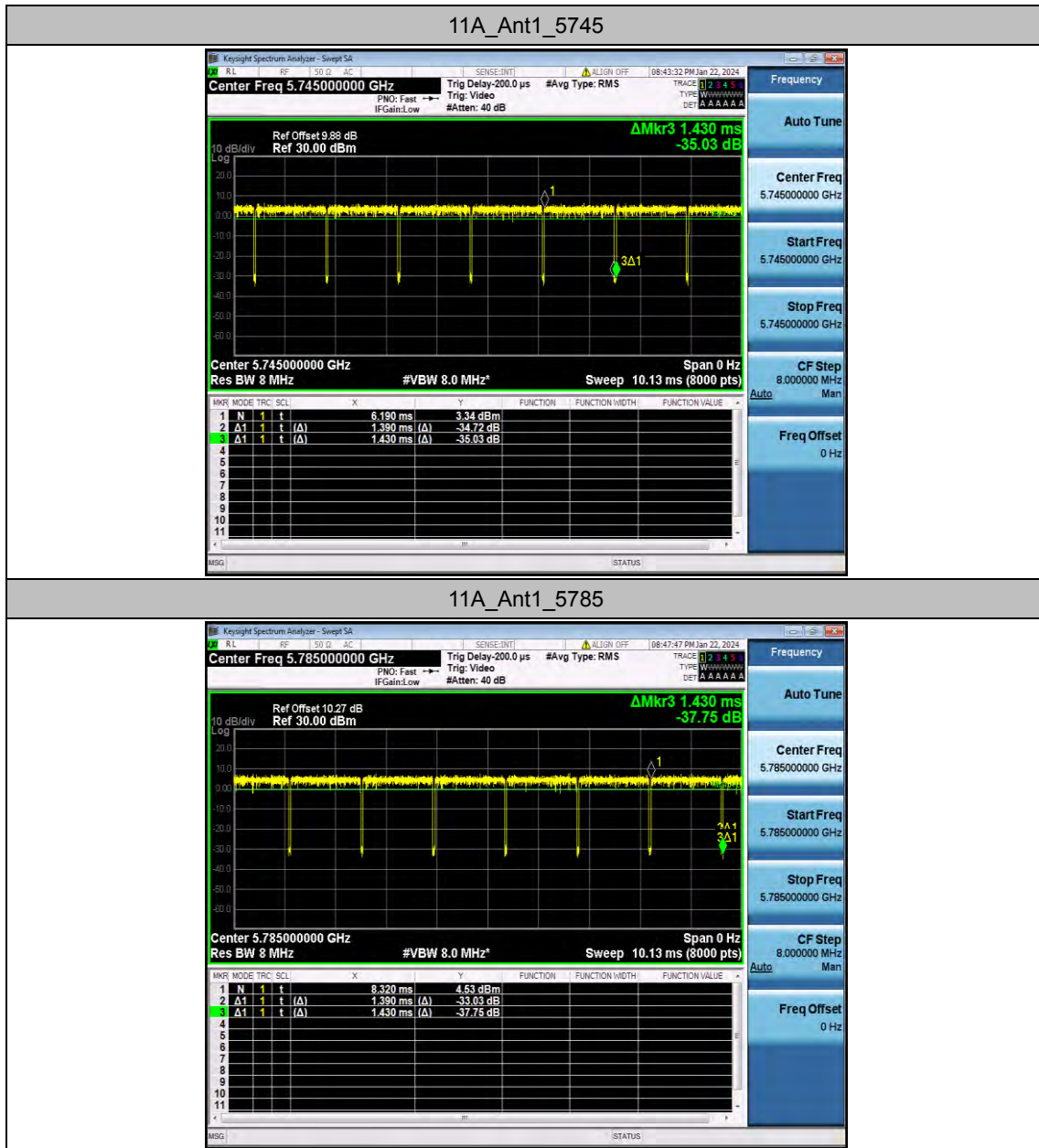


Appendix G.3: Duty Cycle

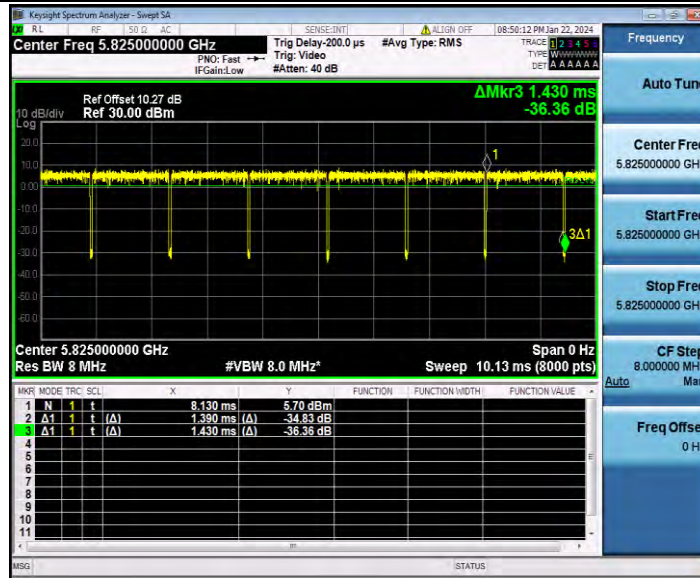
Test Result

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	1.43	97.20	0.12	0.72
		5785	1.39	1.43	97.20	0.12	0.72
		5825	1.39	1.43	97.20	0.12	0.72
11N20SISO	Ant1	5745	1.30	1.35	96.30	0.16	0.77
		5785	1.30	1.34	97.01	0.13	0.77
		5825	1.30	1.34	97.01	0.13	0.77
11N40SISO	Ant1	5755	0.64	0.69	92.75	0.33	1.56
		5795	0.64	0.69	92.75	0.33	1.56
11AC20SISO	Ant1	5745	1.32	1.36	97.06	0.13	0.76
		5785	1.31	1.36	96.32	0.16	0.76
		5825	1.31	1.36	96.32	0.16	0.76
11AC40SISO	Ant1	5755	0.65	0.69	94.20	0.26	1.54
		5795	0.65	0.69	94.20	0.26	1.54
11AC80SISO	Ant1	5775	0.33	0.37	89.19	0.50	3.03

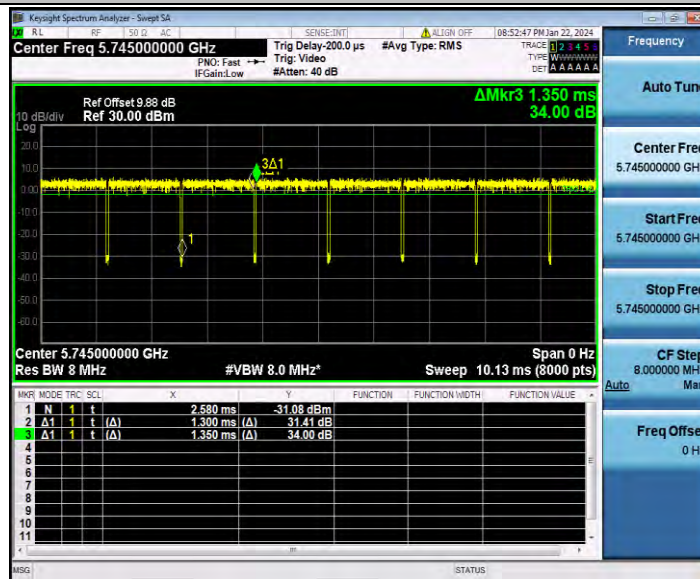
Test Graphs



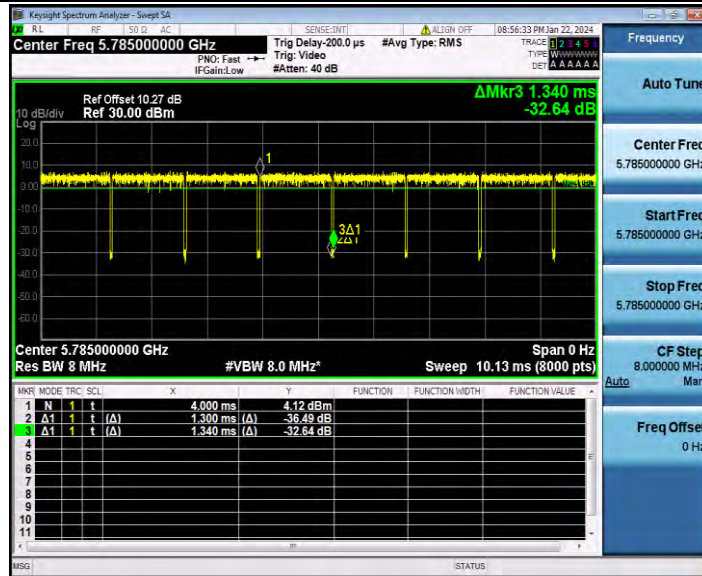
11A_Ant1_5825



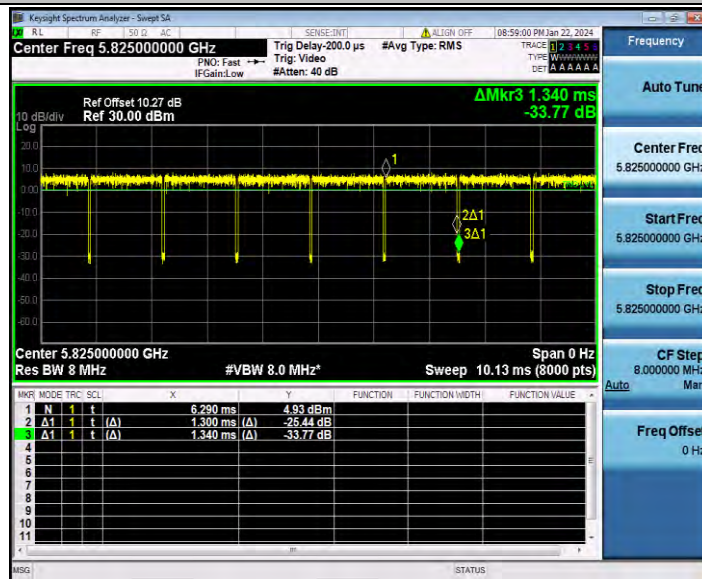
11N20SISO_Ant1_5745



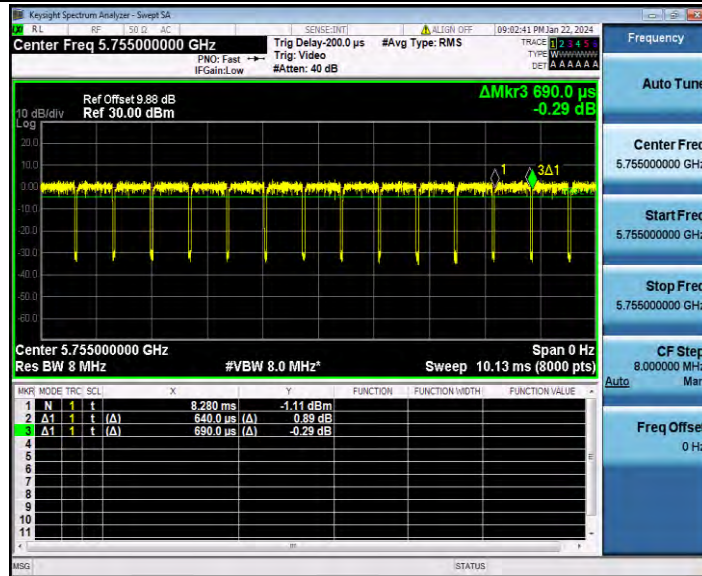
11N20SISO_Ant1_5785



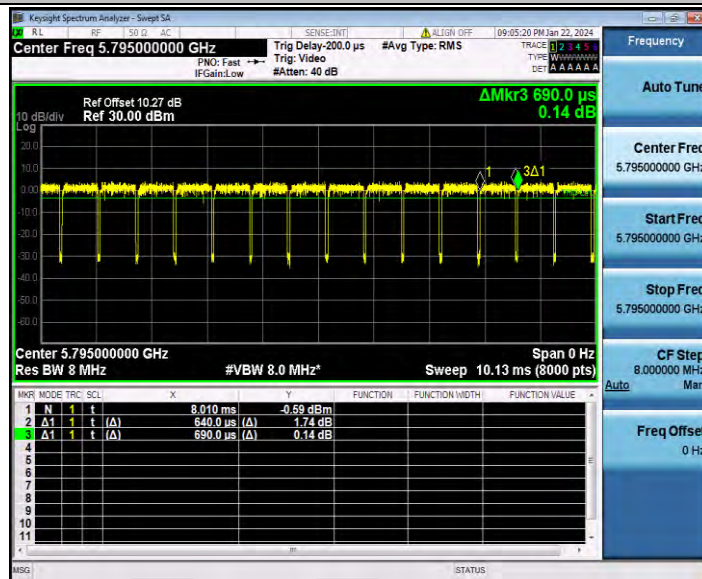
11N20SISO_Ant1_5825



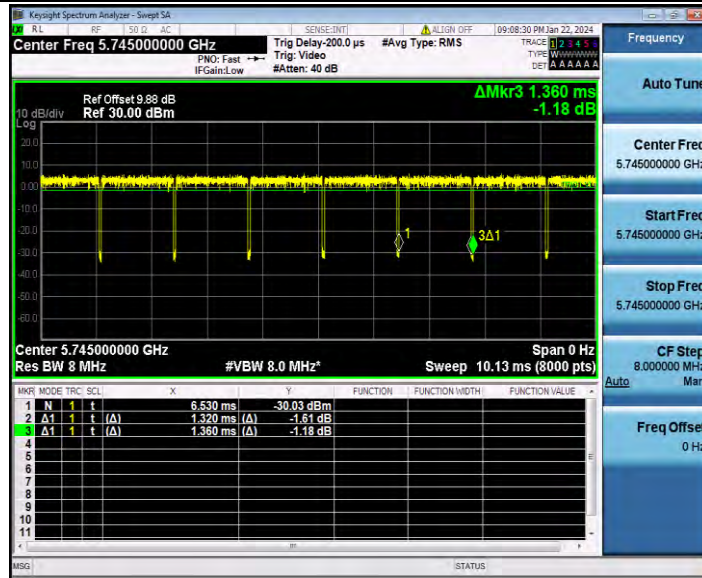
11N40SISO_Ant1_5755



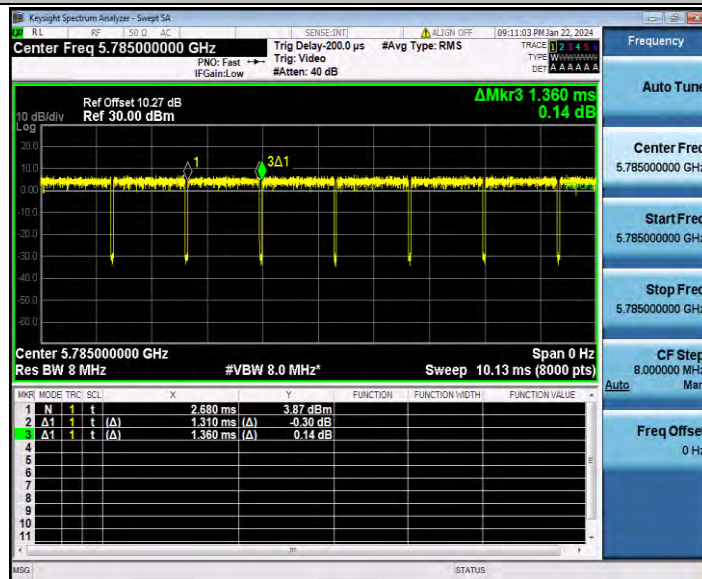
11N40SISO_Ant1_5795



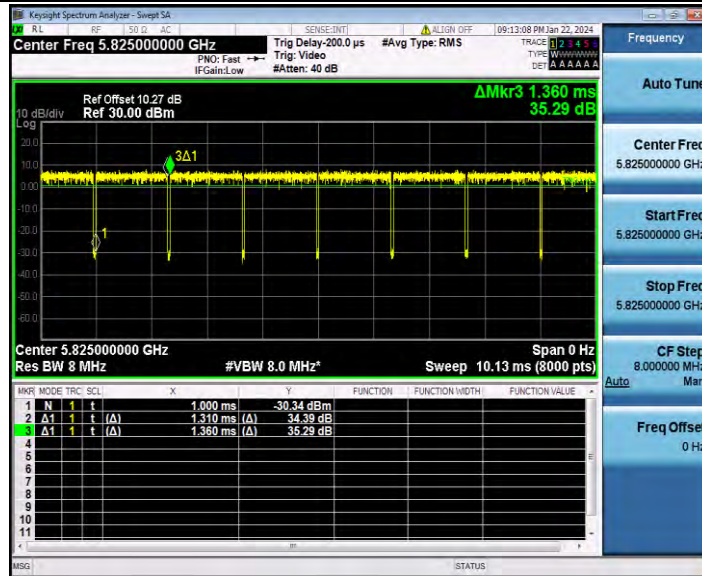
11AC20SISO_Ant1_5745



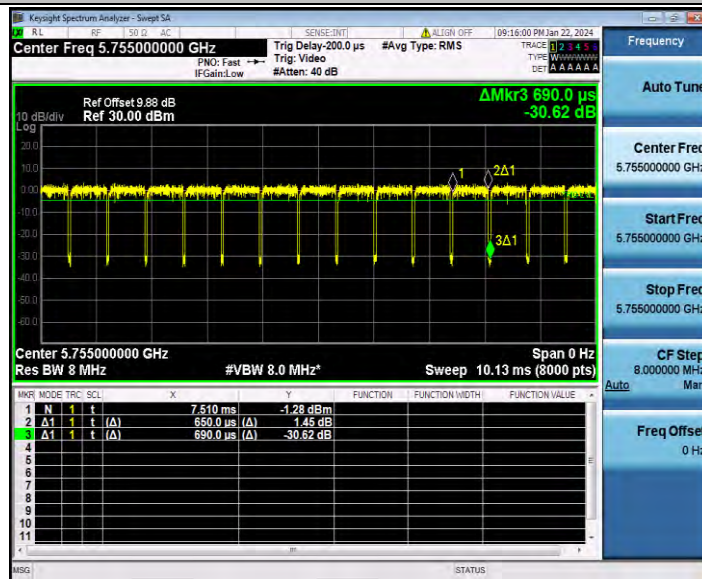
11AC20SISO_Ant1_5785



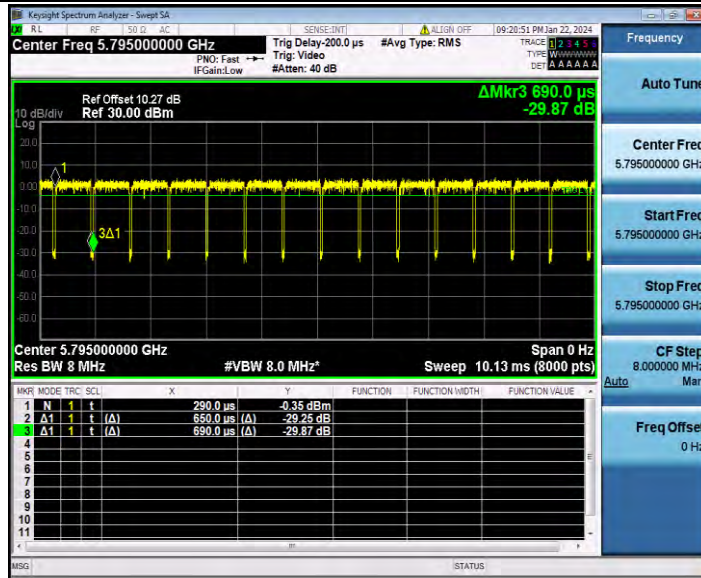
11AC20SISO_Ant1_5825



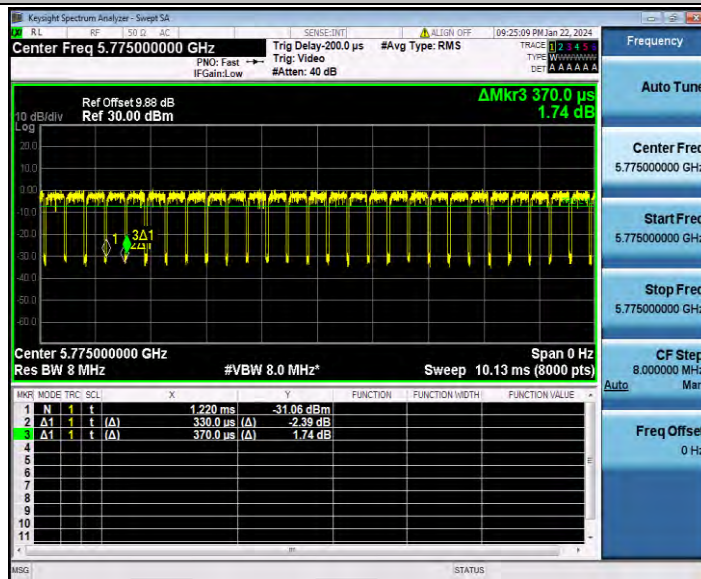
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775



Appendix G.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	5.82	97.20	0.12	5.94	≤30.00	PASS
		5785	7.08	97.20	0.12	7.20	≤30.00	PASS
		5825	7.98	97.20	0.12	8.10	≤30.00	PASS
11N20SI SO	Ant1	5745	5.96	96.30	0.16	6.12	≤30.00	PASS
		5785	7.00	97.01	0.13	7.13	≤30.00	PASS
		5825	7.80	97.01	0.13	7.93	≤30.00	PASS
11N40SI SO	Ant1	5755	5.67	92.75	0.33	6.00	≤30.00	PASS
		5795	6.55	92.75	0.33	6.88	≤30.00	PASS
11AC20S ISO	Ant1	5745	5.91	97.06	0.13	6.04	≤30.00	PASS
		5785	6.95	96.32	0.16	7.11	≤30.00	PASS
		5825	7.87	96.32	0.16	8.03	≤30.00	PASS
11AC40S ISO	Ant1	5755	5.75	94.20	0.26	6.01	≤30.00	PASS
		5795	6.47	94.20	0.26	6.73	≤30.00	PASS
11AC80S ISO	Ant1	5775	5.54	89.19	0.50	6.04	≤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 data.

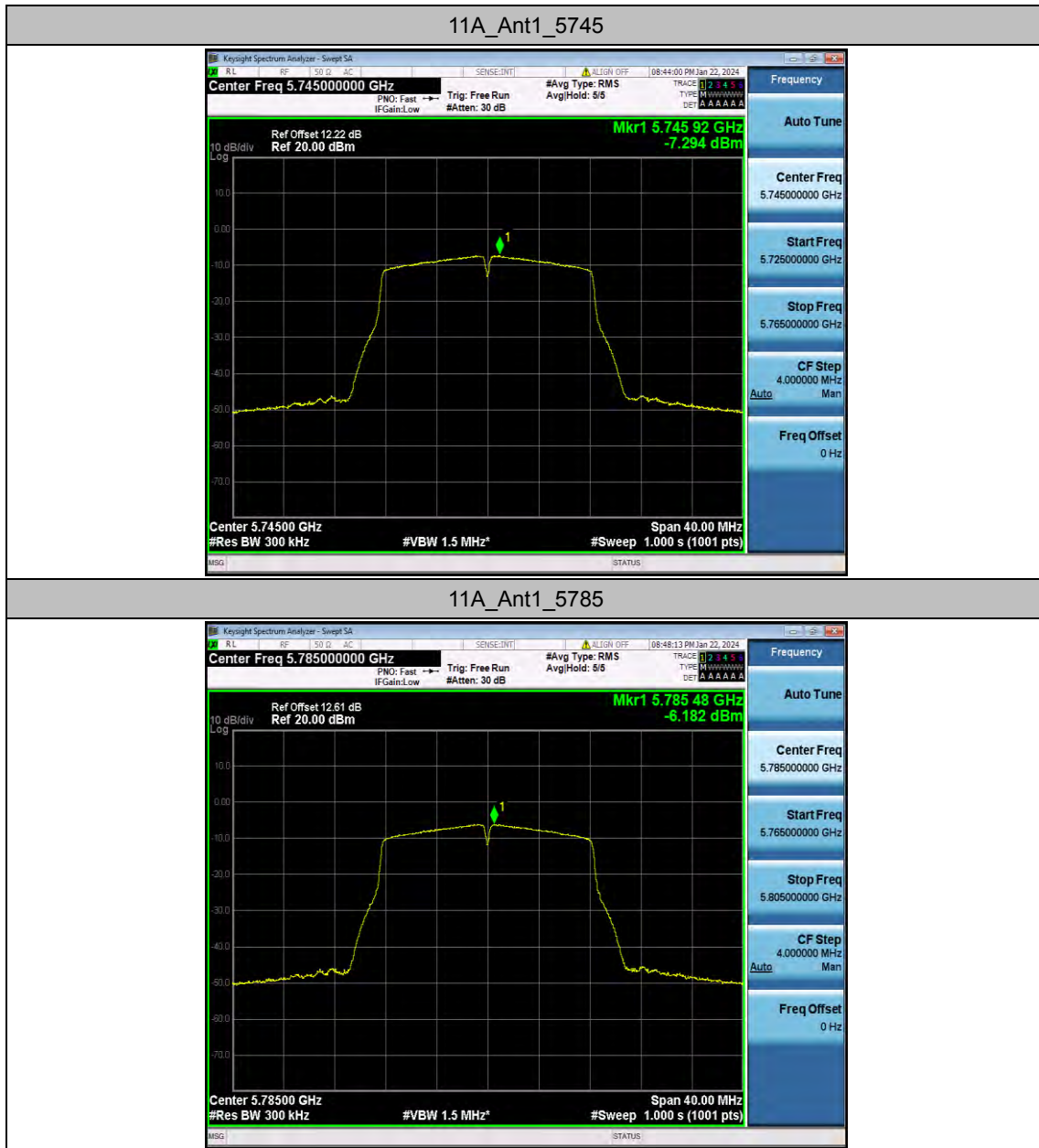
Appendix G.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-7.29	≤30.00	PASS
		5785	-6.18	≤30.00	PASS
		5825	-5.19	≤30.00	PASS
11N20SISO	Ant1	5745	-7.56	≤30.00	PASS
		5785	-6.47	≤30.00	PASS
		5825	-5.63	≤30.00	PASS
11N40SISO	Ant1	5755	-10.16	≤30.00	PASS
		5795	-9.41	≤30.00	PASS
11AC20SISO	Ant1	5745	-7.39	≤30.00	PASS
		5785	-6.39	≤30.00	PASS
		5825	-5.65	≤30.00	PASS
11AC40SISO	Ant1	5755	-10.27	≤30.00	PASS
		5795	-9.52	≤30.00	PASS
11AC80SISO	Ant1	5775	-12.96	≤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



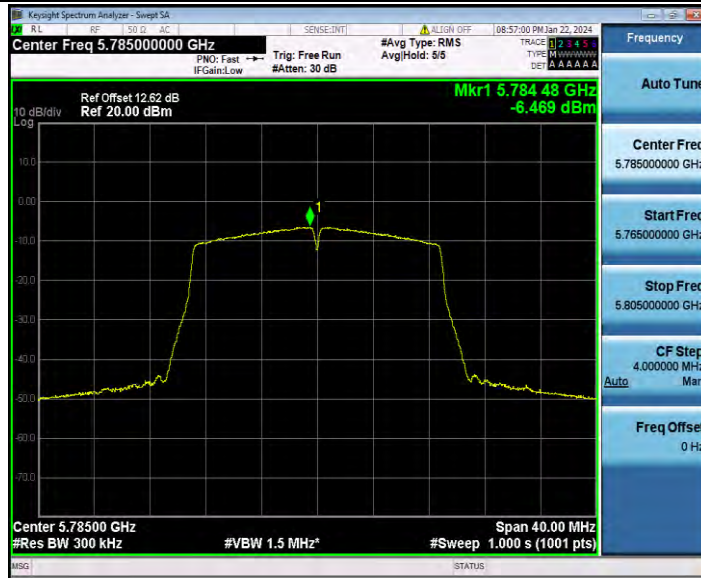
11A_Ant1_5825



11N20SISO_Ant1_5745



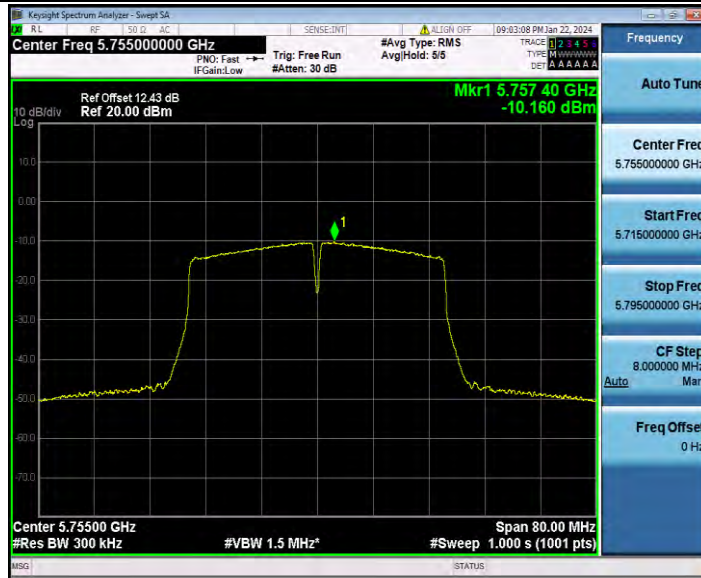
11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



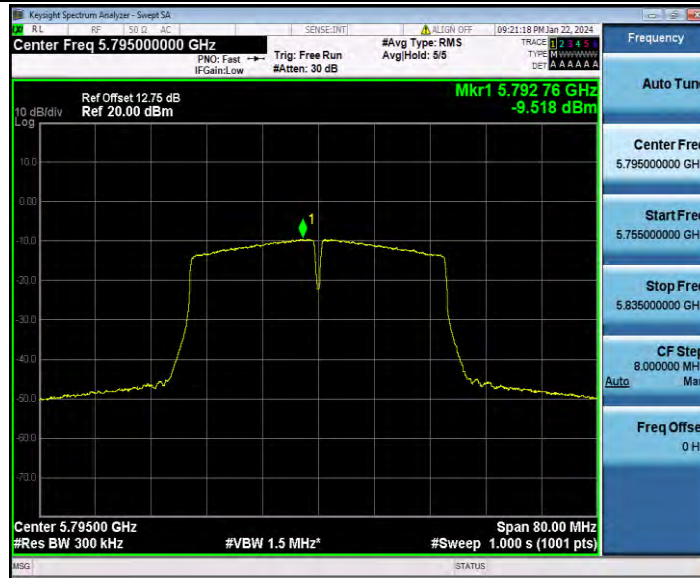
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775



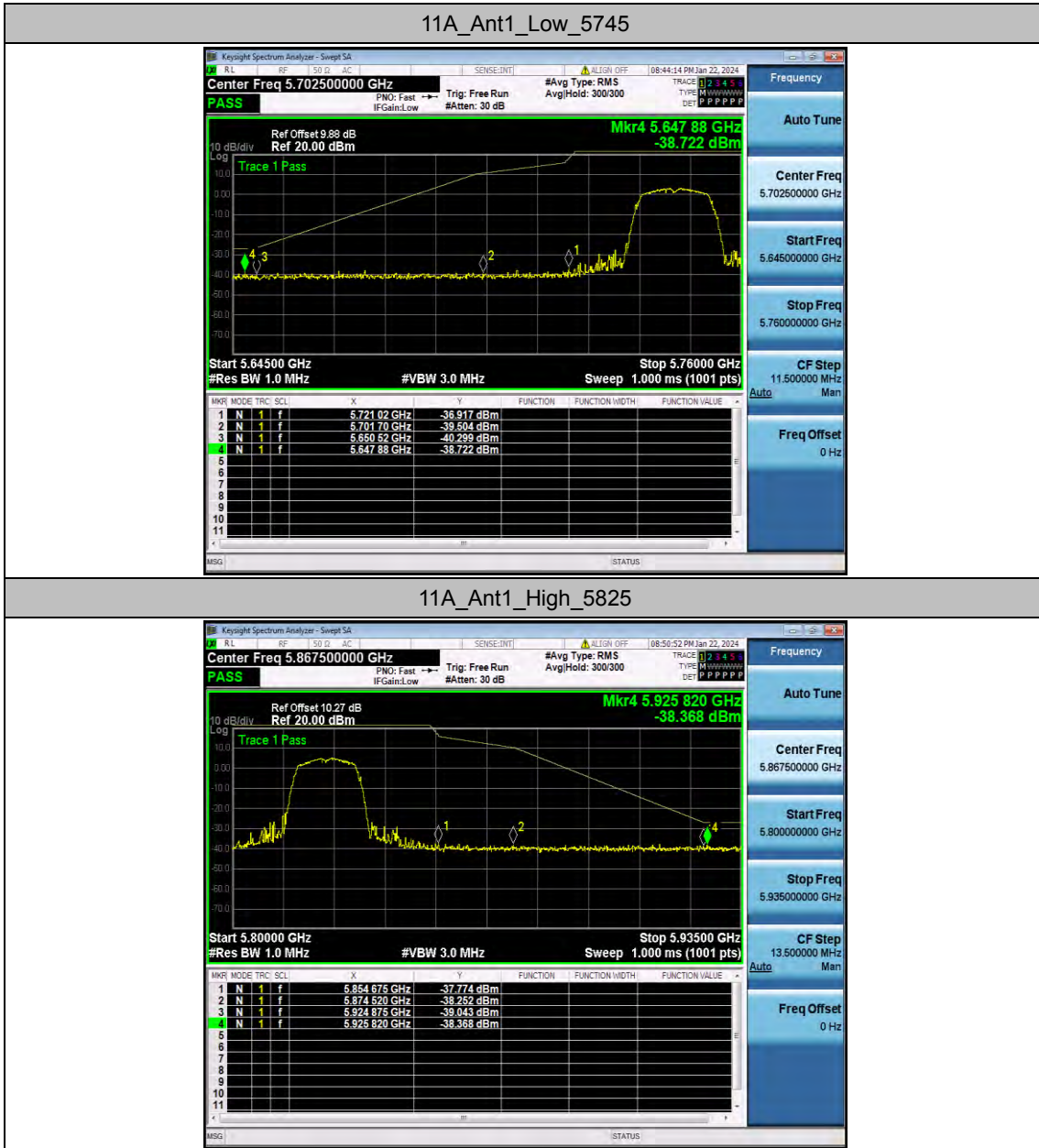
Appendix G.6: Band edge measurements

Test Result B4

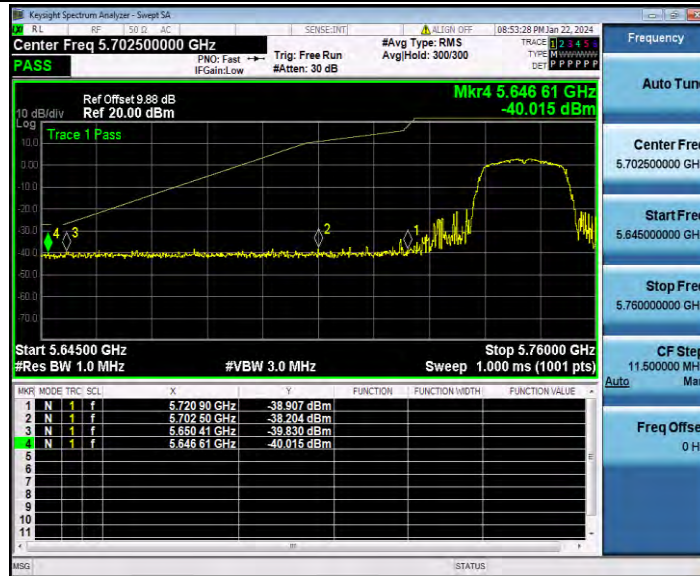
TestMode	Antenna	ChName	Freq(MHz)	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-40.3	≤-26.62	PASS
				5700~5720	-39.5	≤10.47	PASS
				5720~5725	-36.92	≤17.91	PASS
				5760~5650	-38.72	≤-27	PASS
		High	5825	5850~5855	-37.77	≤16.34	PASS
				5855~5875	-38.25	≤10.13	PASS
				5875~5925	-39.04	≤-26.91	PASS
				5925~5935	-38.37	≤-27	PASS
11N20SI SO	Ant1	Low	5745	5650~5700	-39.83	≤-26.70	PASS
				5700~5720	-38.2	≤10.70	PASS
				5720~5725	-38.91	≤17.65	PASS
				5760~5650	-40.02	≤-27	PASS
		High	5825	5850~5855	-38.5	≤15.73	PASS
				5855~5875	-38.52	≤10.06	PASS
				5875~5925	-39.31	≤-26.31	PASS
				5925~5935	-39.06	≤-27	PASS
11N40SI SO	Ant1	Low	5755	5650~5700	-40.14	≤-26.00	PASS
				5700~5720	-26.67	≤15.43	PASS
				5720~5725	-26.57	≤16.97	PASS
				5780~5650	-39.82	≤-27	PASS
		High	5795	5850~5855	-39.73	≤15.66	PASS
				5855~5875	-38.47	≤11.22	PASS
				5875~5925	-39.16	≤-26.71	PASS
				5925~5935	-38.42	≤-27	PASS
11AC20S ISO	Ant1	Low	5745	5650~5700	-40.27	≤-26.53	PASS
				5700~5720	-39.92	≤10.18	PASS
				5720~5725	-35.06	≤18.44	PASS
				5760~5650	-40.49	≤-27	PASS
		High	5825	5850~5855	-38.55	≤16.34	PASS
				5855~5875	-38.57	≤11.08	PASS
				5875~5925	-38.68	≤-26.61	PASS
				5925~5935	-38.17	≤-27	PASS
11AC40S ISO	Ant1	Low	5755	5650~5700	-39.8	≤-26.80	PASS
				5700~5720	-32.75	≤15.31	PASS
				5720~5725	-35.25	≤16.66	PASS
				5780~5650	-39.78	≤-27	PASS

		High	5795	5850~5855	-39.33	≤ 16.03	PASS
				5855~5875	-39.66	≤ 10.02	PASS
				5875~5925	-40.13	≤ -26.95	PASS
				5925~5935	-38.81	≤ -27	PASS
11AC80S ISO	Ant1	Low	5775	5650~5700	-39.83	≤ -26.23	PASS
				5700~5720	-35.49	≤ 10.27	PASS
				5720~5725	-32.98	≤ 15.65	PASS
				5800~5650	-38.93	≤ -27	PASS
		High	5775	5850~5855	-37.28	≤ 16.26	PASS
				5855~5875	-34.34	≤ 13.04	PASS
				5875~5925	-40.24	≤ -26.87	PASS
				5925~5935	-38.76	≤ -27	PASS

Test Graphs B4



11N20SISO_Ant1_Low_5745



11N20SISO_Ant1_High_5825



11N40SISO_Ant1_Low_5755



11N40SISO_Ant1_High_5795

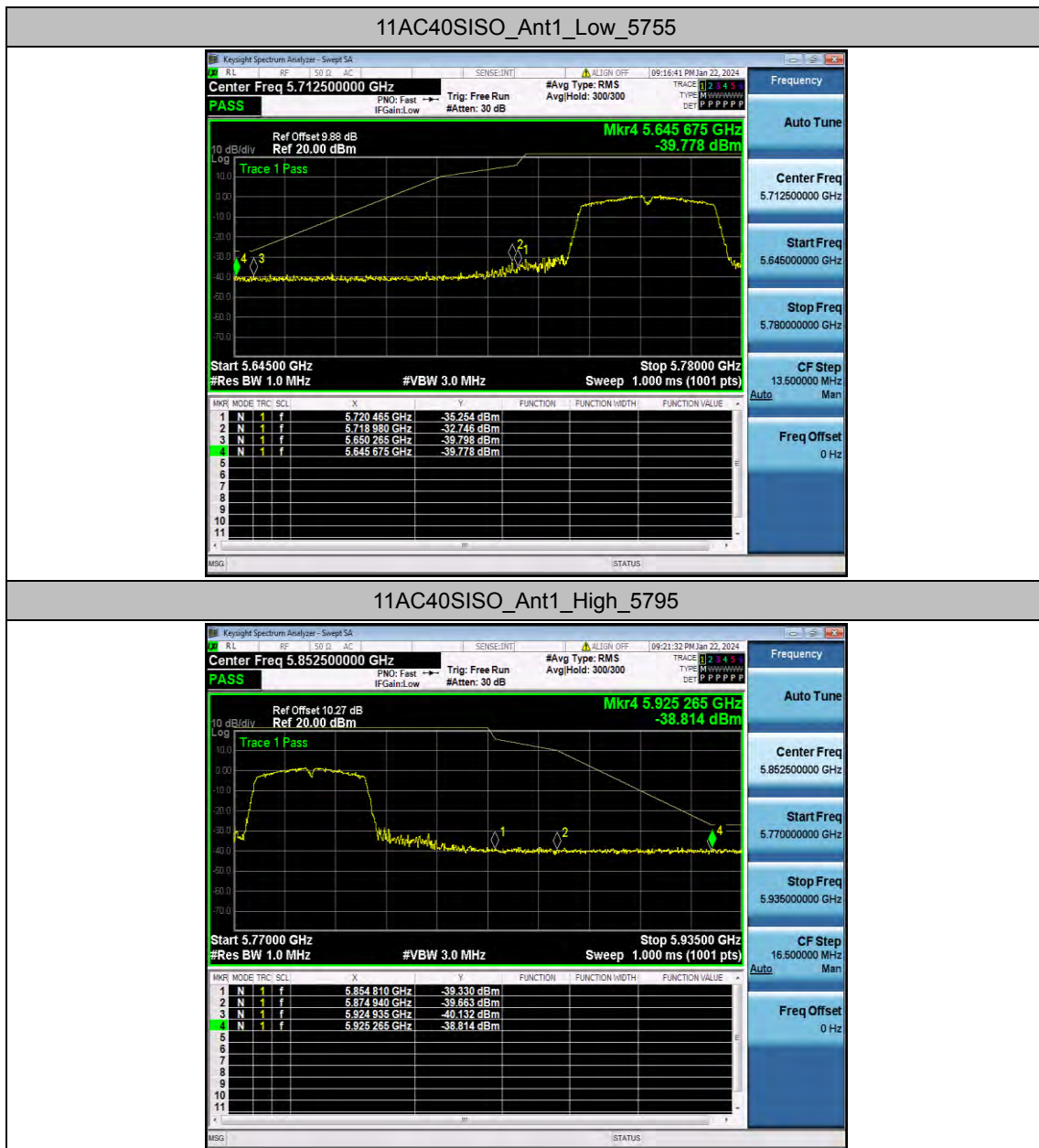


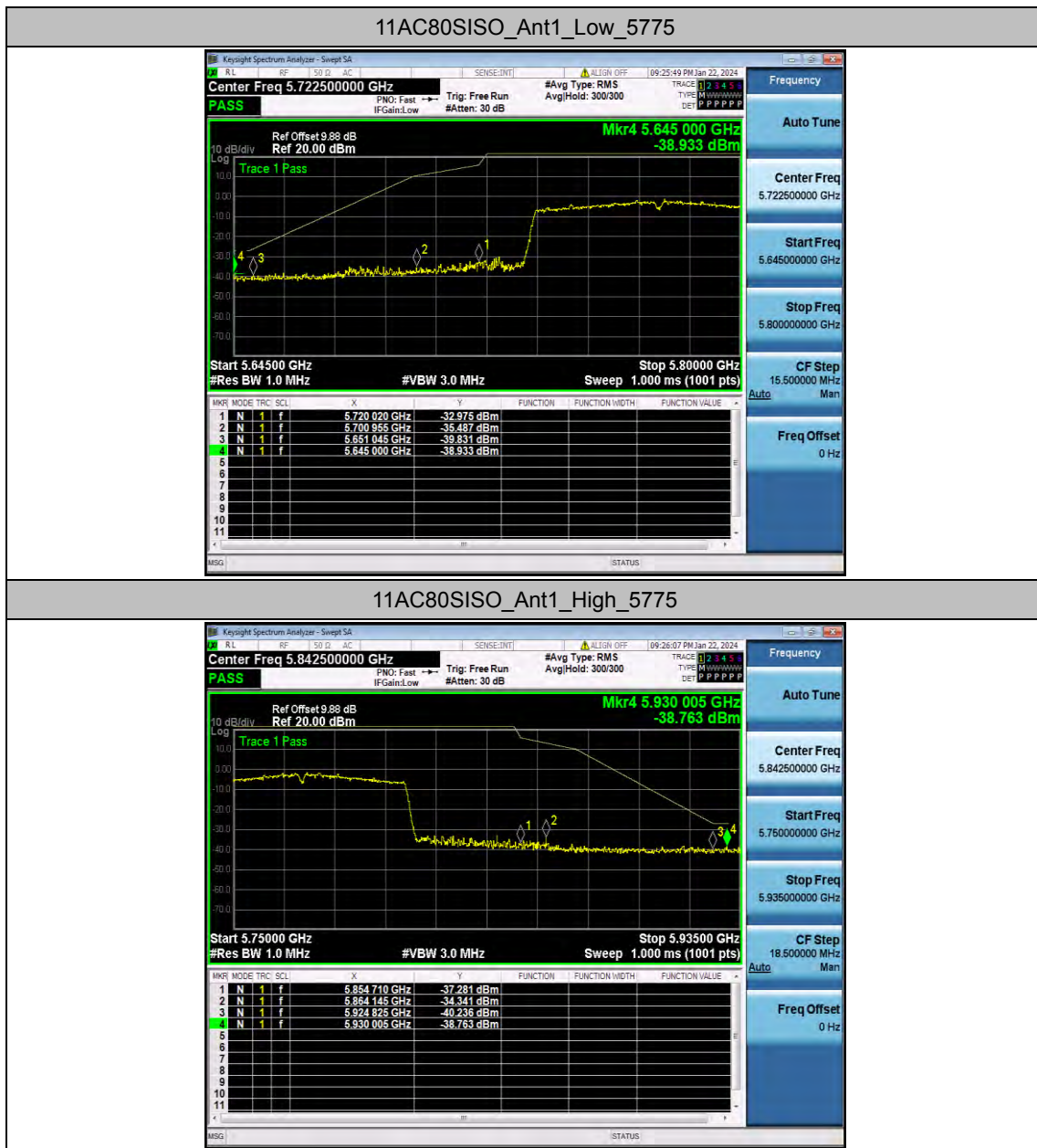
11AC20SISO_Ant1_Low_5745



11AC20SISO_Ant1_High_5825





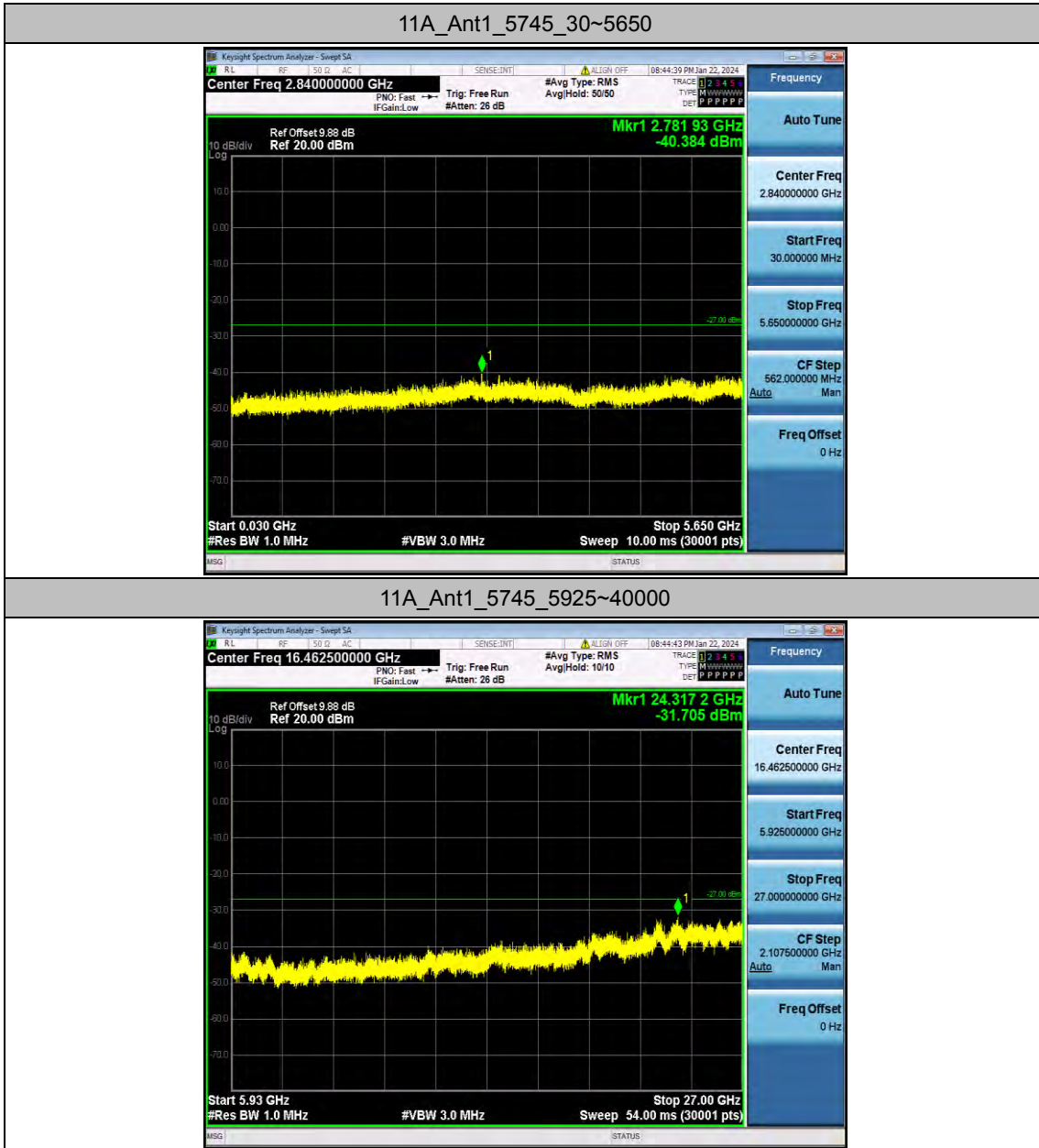


Appendix G.7: Conducted Spurious Emission

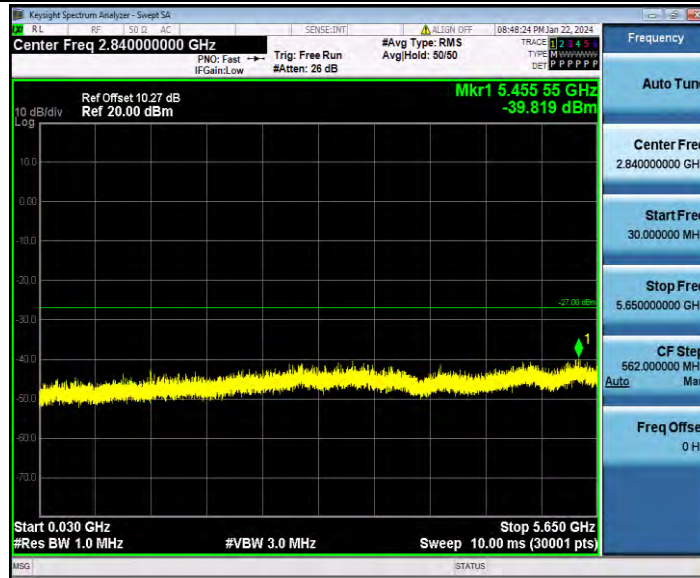
Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	30~5650	2781.93	-40.38	≤-27	PASS
			5925~40000	24317.15	-31.71	≤-27	PASS
		5785	30~5650	5455.55	-39.82	≤-27	PASS
			5925~40000	26532.84	-32.17	≤-27	PASS
		5825	30~5650	5013.63	-40.32	≤-27	PASS
			5925~40000	26698.63	-31.03	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	5430.45	-39.27	≤-27	PASS
			5925~40000	24209.67	-32.06	≤-27	PASS
		5785	30~5650	5596.61	-39.93	≤-27	PASS
			5925~40000	24851.05	-30.9	≤-27	PASS
		5825	30~5650	5454.05	-40.38	≤-27	PASS
			5925~40000	23507.87	-31.91	≤-27	PASS
11N40SISO	Ant1	5755	30~5650	5017.75	-40.62	≤-27	PASS
			5925~40000	24775.89	-31.72	≤-27	PASS
		5795	30~5650	5410.59	-39.7	≤-27	PASS
			5925~40000	25637.15	-31.14	≤-27	PASS
11AC20SISO	Ant1	5745	30~5650	5470.53	-39.93	≤-27	PASS
			5925~40000	23529.65	-32	≤-27	PASS
		5785	30~5650	2664.47	-40.22	≤-27	PASS
			5925~40000	25046.35	-31.45	≤-27	PASS
		5825	30~5650	5524.67	-38.66	≤-27	PASS
			5925~40000	24873.53	-31.06	≤-27	PASS
11AC40SISO	Ant1	5755	30~5650	5421.64	-39.57	≤-27	PASS
			5925~40000	25502.97	-32.53	≤-27	PASS
		5795	30~5650	5381.18	-38.94	≤-27	PASS
			5925~40000	25044.94	-32.02	≤-27	PASS
11AC80SISO	Ant1	5775	30~5650	5506.88	-39.63	≤-27	PASS
			5925~40000	23491.72	-31.56	≤-27	PASS

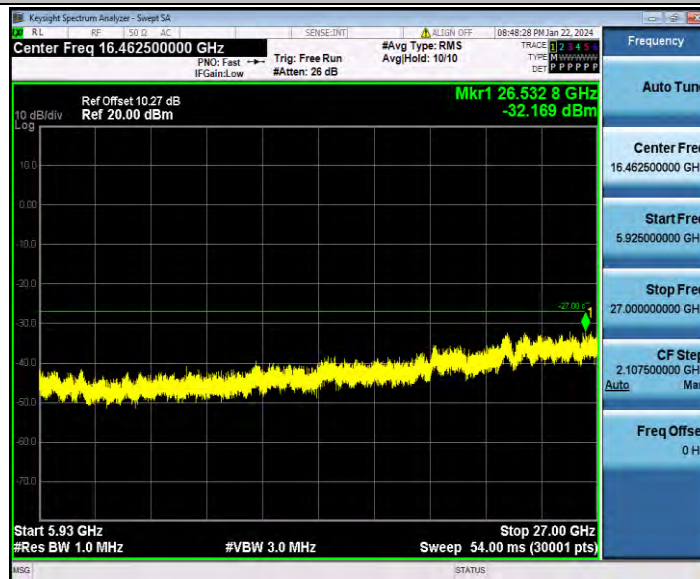
Test Graphs



11A_Ant1_5785_30~5650



11A_Ant1_5785_5925~40000

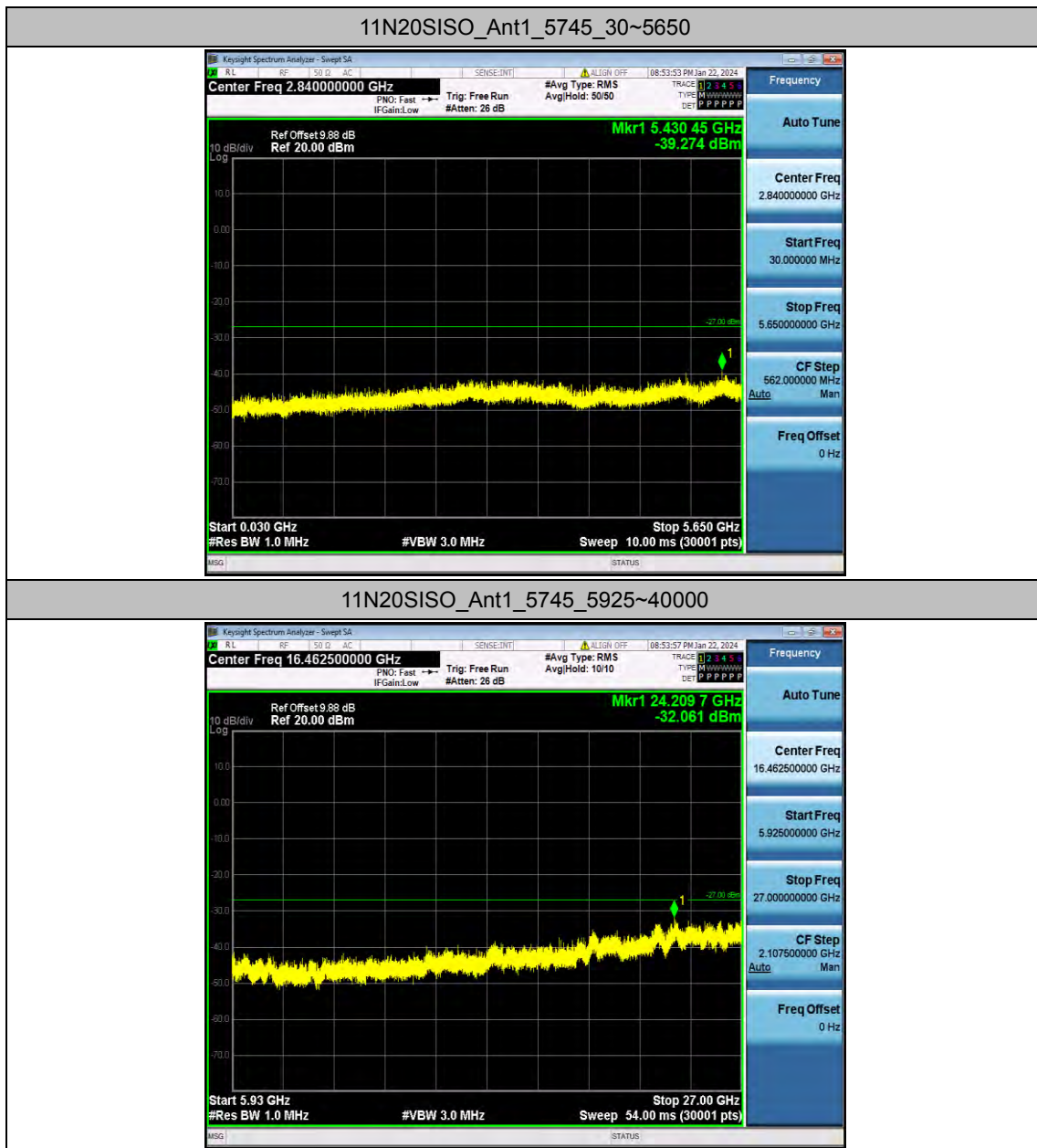


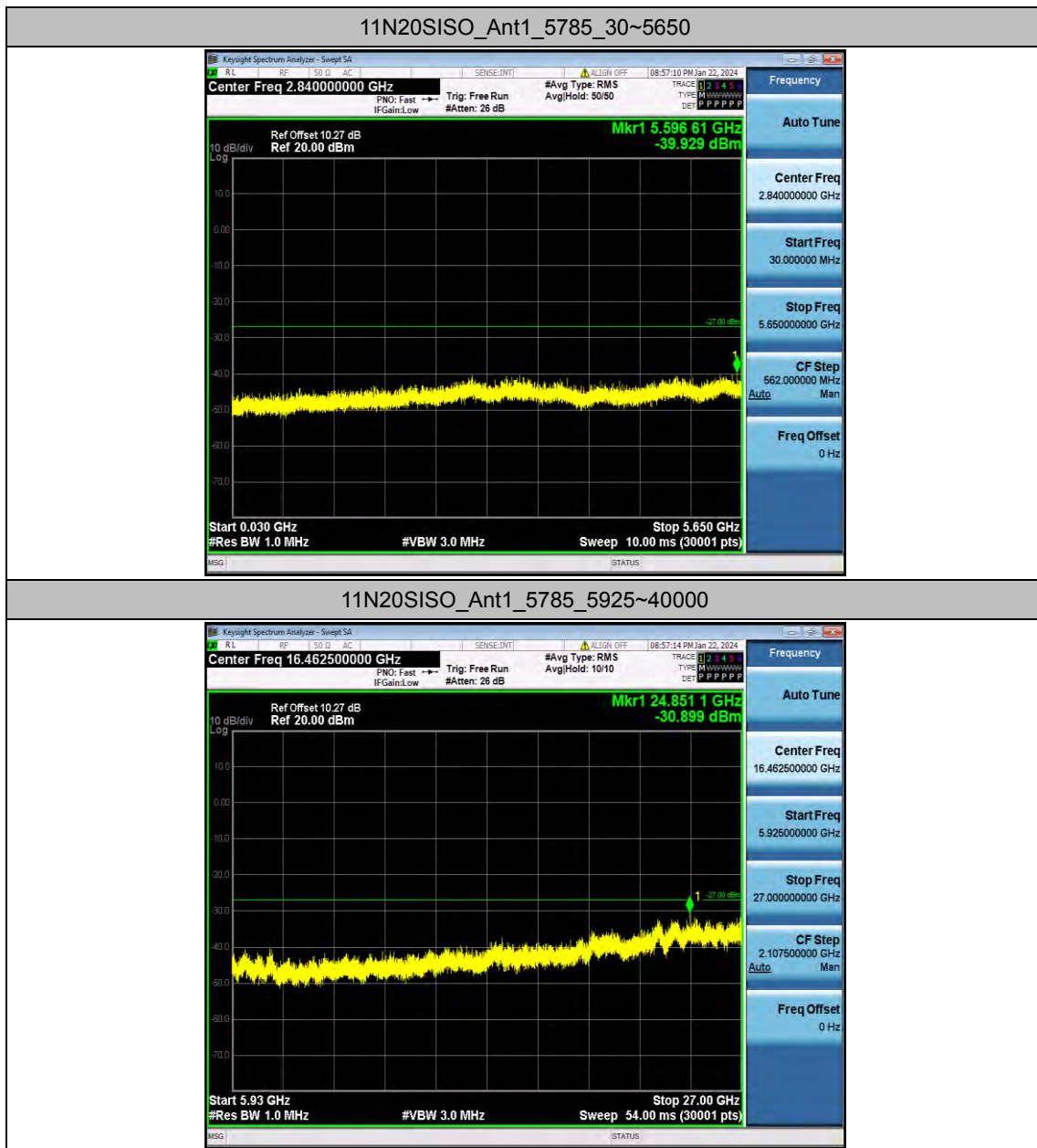
11A_Ant1_5825_30~5650



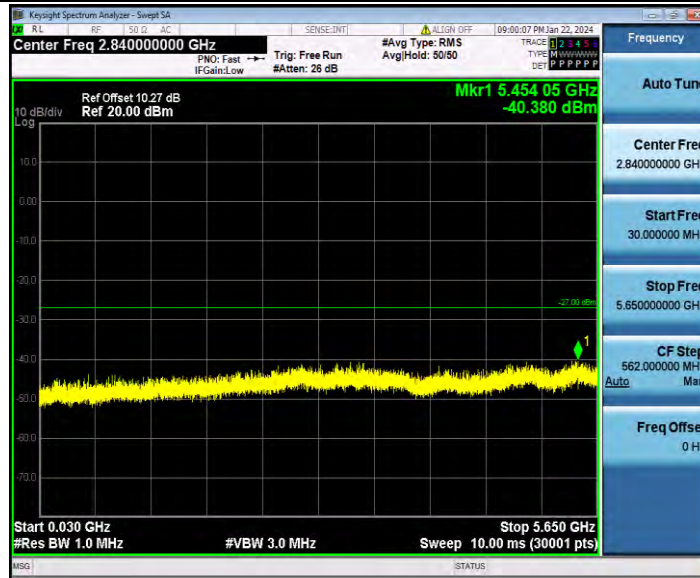
11A_Ant1_5825_5925~40000



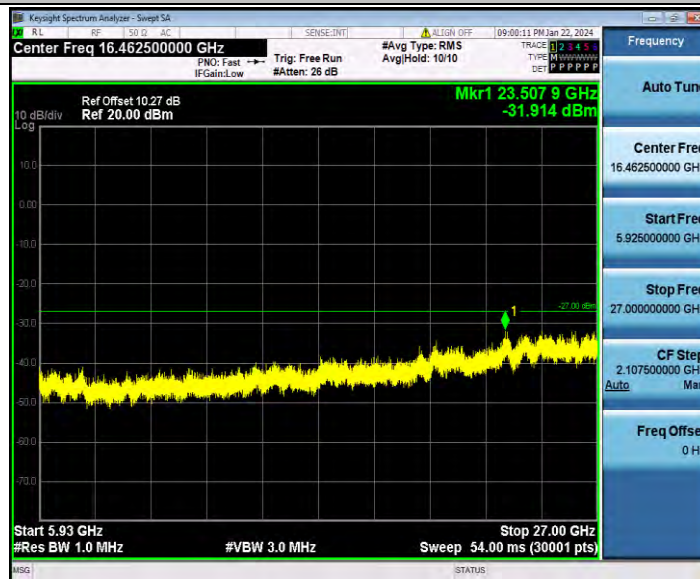


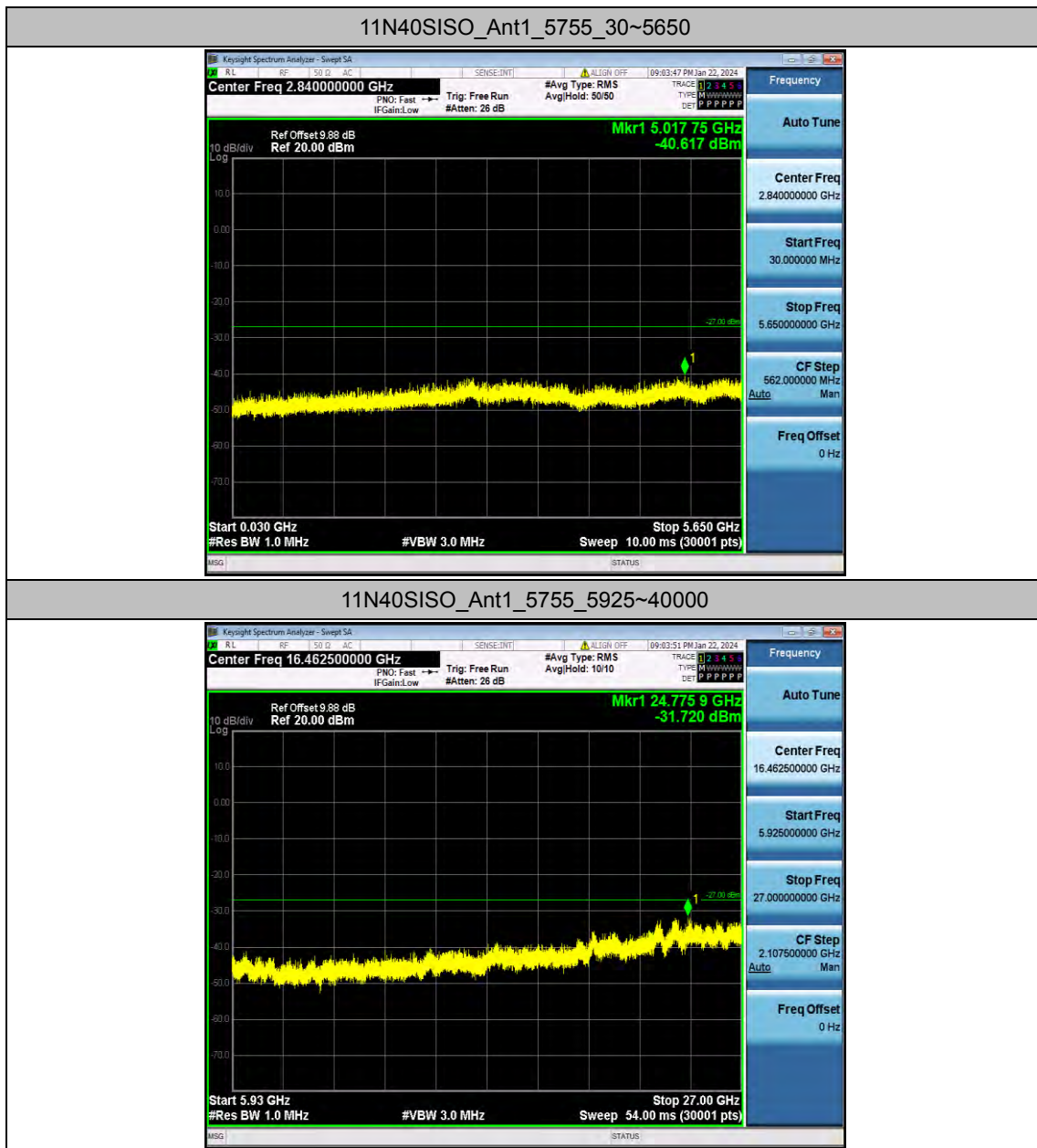


11N20SISO_Ant1_5825_30~5650



11N20SISO_Ant1_5825_5925~40000

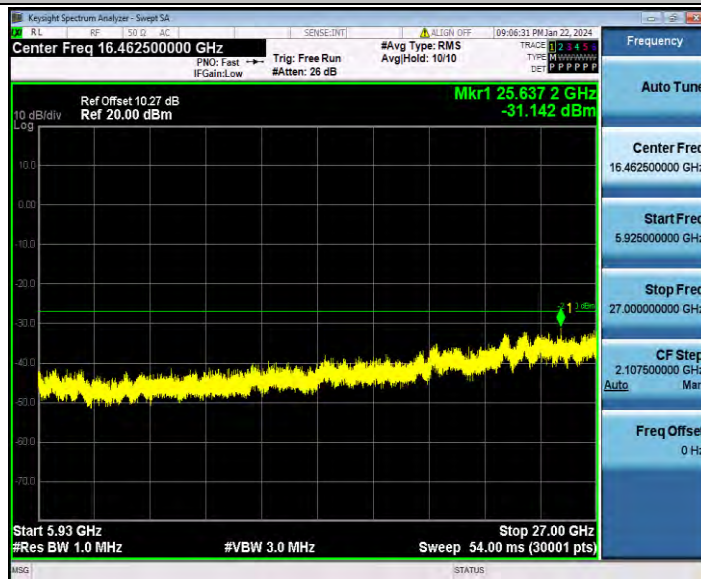




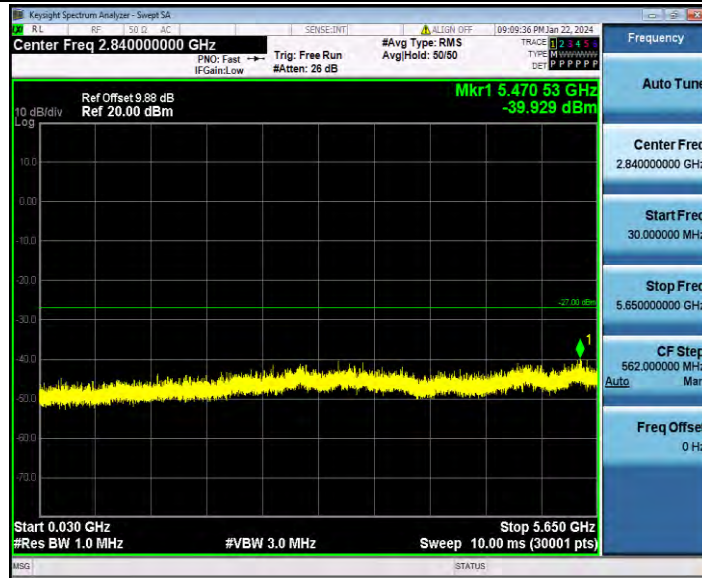
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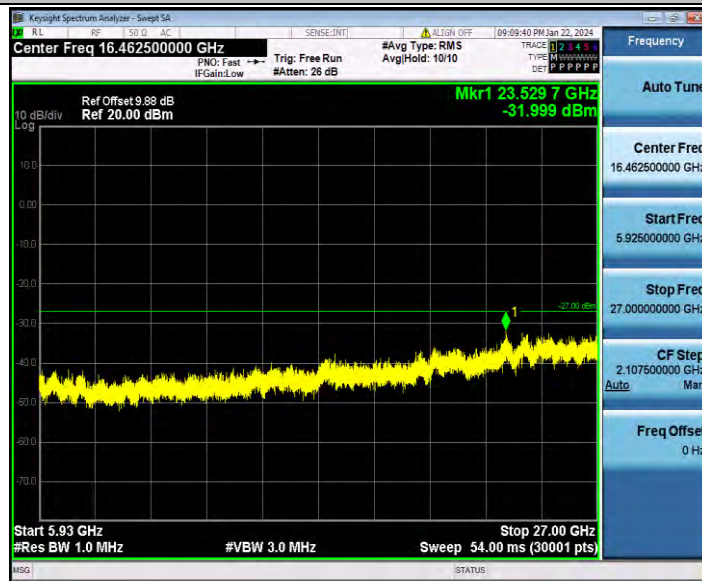
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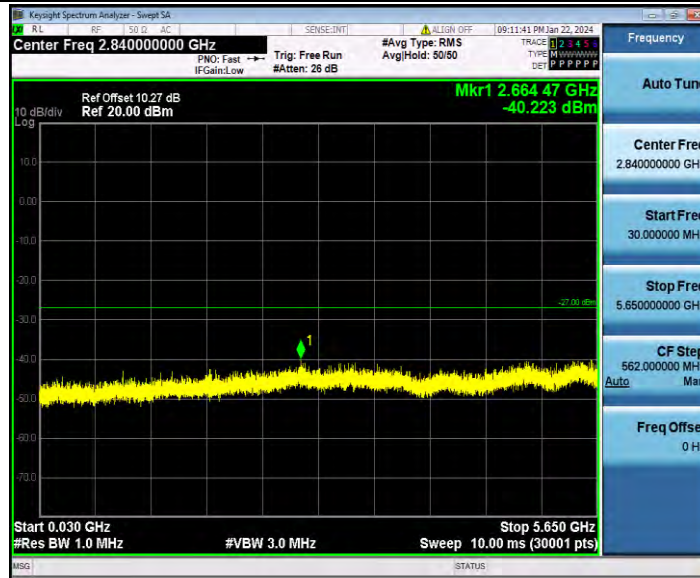
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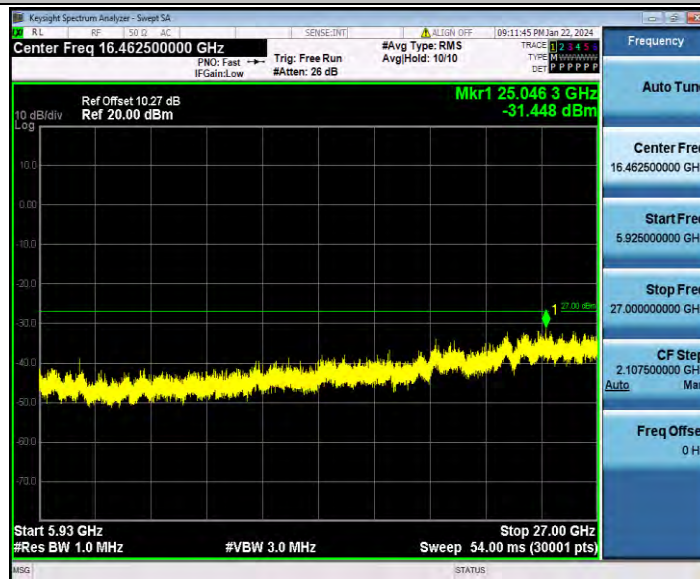
11AC20SISO_Ant1_5745_5925~40000



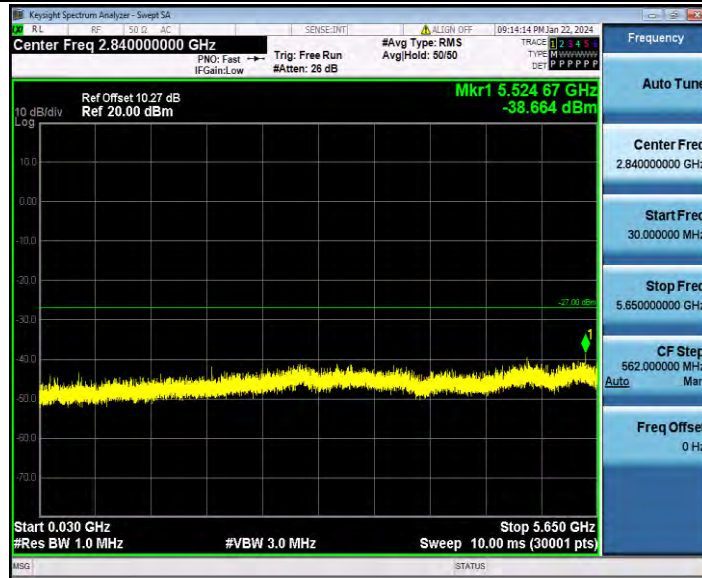
11AC20SISO_Ant1_5785_30~5650



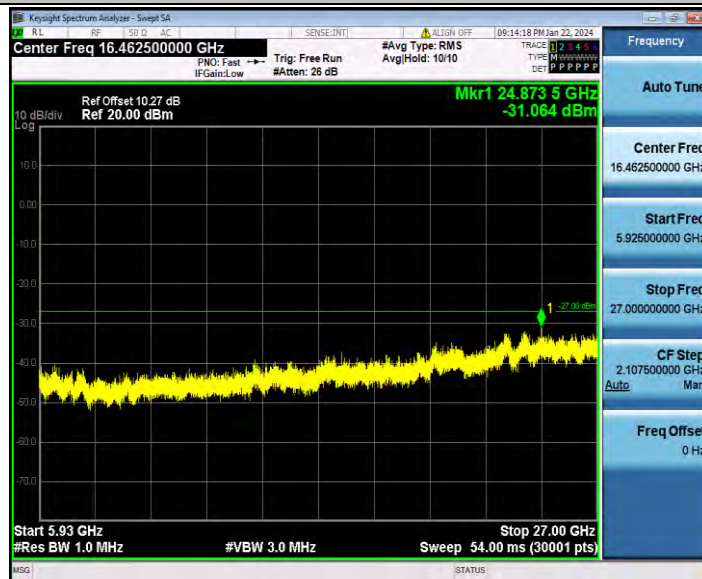
11AC20SISO_Ant1_5785_5925~40000



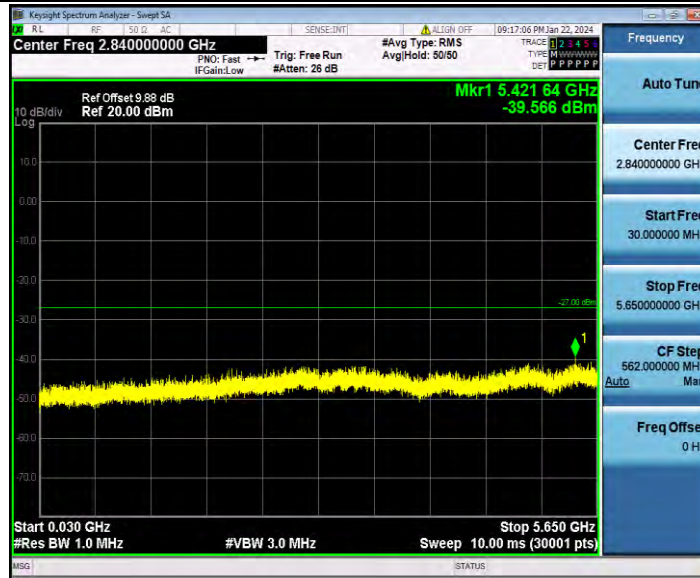
11AC20SISO_Ant1_5825_30~5650



11AC20SISO_Ant1_5825_5925~40000



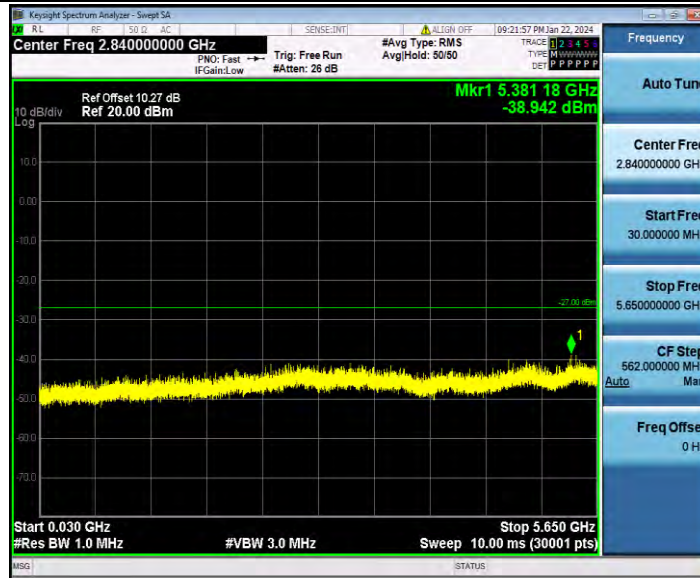
11AC40SISO_Ant1_5755_30~5650



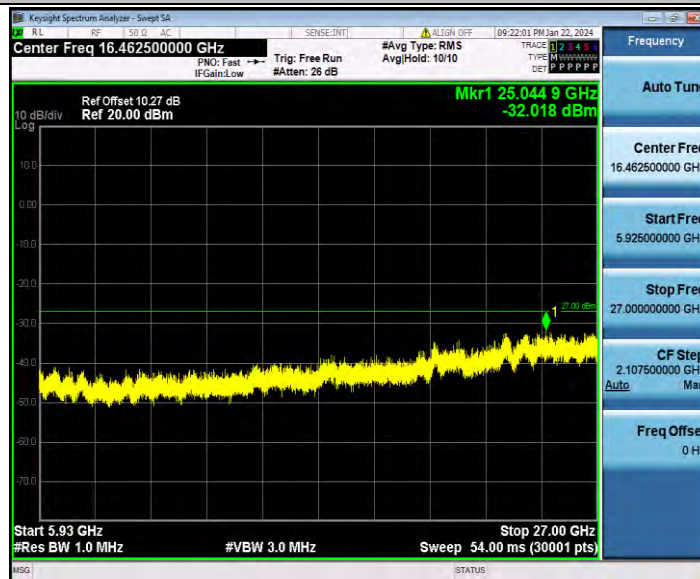
11AC40SISO_Ant1_5755_5925~40000



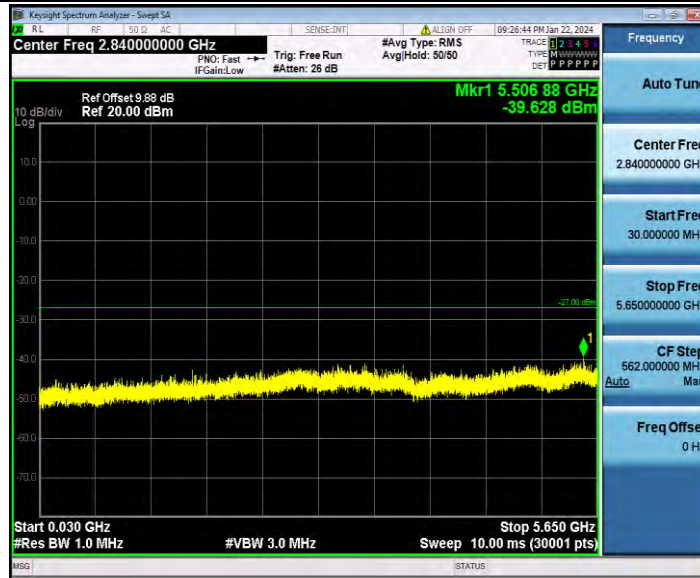
11AC40SISO_Ant1_5795_30~5650



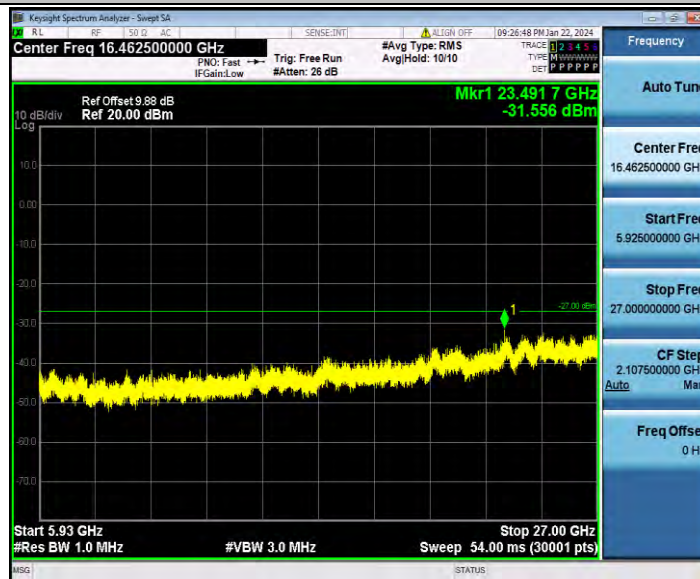
11AC40SISO_Ant1_5795_5925~40000



11AC80SISO_Ant1_5775_30~5650



11AC80SISO_Ant1_5775_5925~40000



Appendix G.8: Emissions in Restricted Bands

Test Result

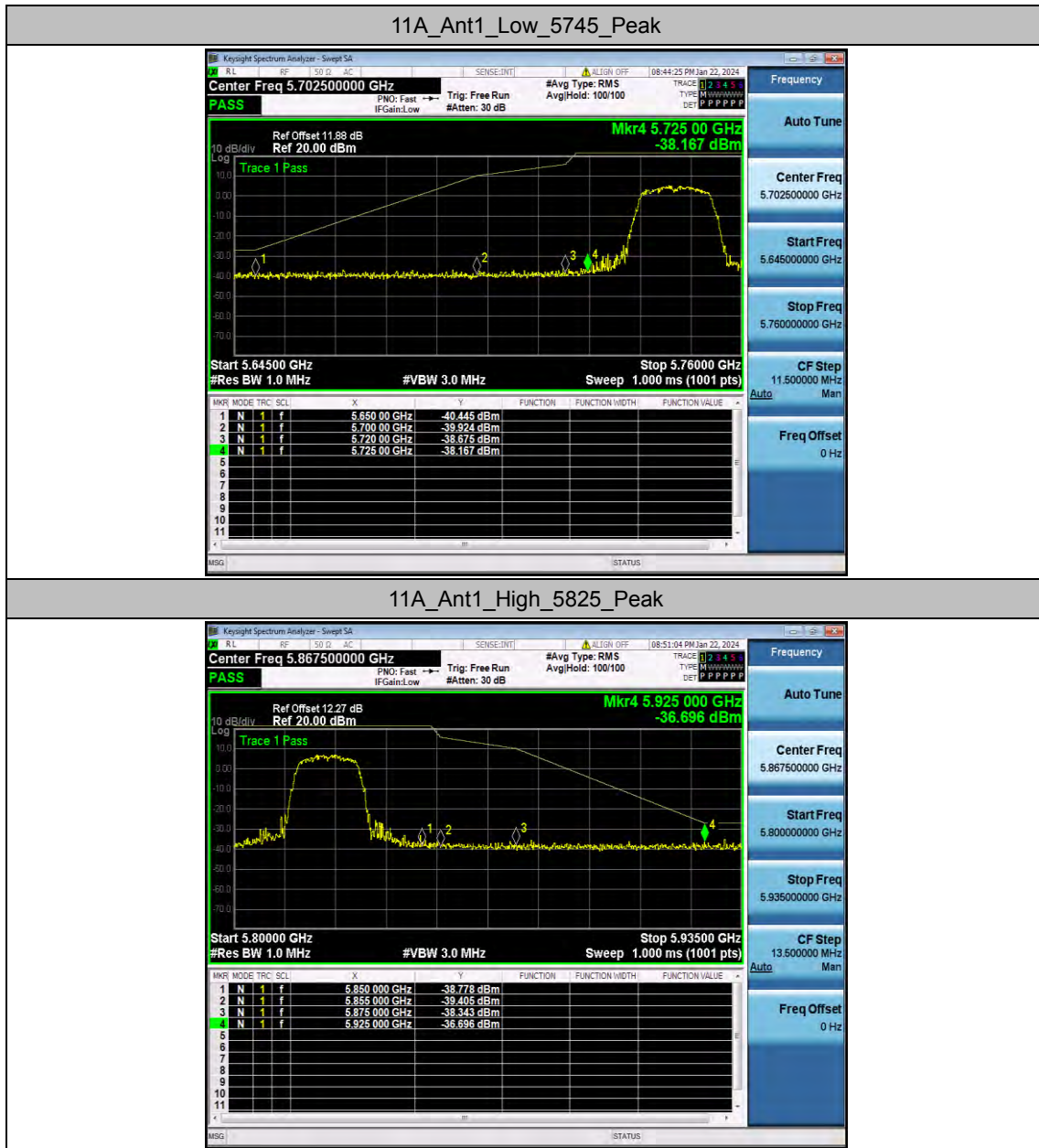
TestMode	Antenna	ChName	Freq (MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	Peak	5650.000	-40.44 5	≤-27.00	PASS
				Peak	5700.000	-39.92	≤10.00	PASS
				Peak	5720.000	-38.68	≤15.60	PASS
				Peak	5725.000	-38.17	≤27.00	PASS
		High	5825	Peak	5850.000	-38.77 8	≤27.00	PASS
				Peak	5855.000	-39.41	≤15.60	PASS
				Peak	5875.000	-38.34	≤10.00	PASS
11N20SIS O	Ant1	Low	5745	Peak	5650.000	-40.06	≤-27.00	PASS
				Peak	5700.000	-37.74	≤10.00	PASS
				Peak	5720.000	-38.19	≤15.60	PASS
				Peak	5725.000	-38.56	≤27.00	PASS
		High	5825	Peak	5850.000	-38.28 1	≤27.00	PASS
				Peak	5855.000	-37.98	≤15.60	PASS
				Peak	5875.000	-38.29	≤10.00	PASS
11N40SIS O	Ant1	Low	5755	Peak	5650.000	-38.73 4	≤-27.00	PASS
				Peak	5700.000	-38.73	≤10.00	PASS
				Peak	5720.000	-32.97	≤15.60	PASS
				Peak	5725.000	-36.69	≤27.00	PASS
		High	5795	Peak	5850.000	-39.25 6	≤27.00	PASS
				Peak	5855.000	-39.52	≤15.60	PASS
				Peak	5875.000	-38.31	≤10.00	PASS
11AC20SI SO	Ant1	Low	5745	Peak	5650.000	-39.13 6	≤-27.00	PASS
				Peak	5700.000	-40.36	≤10.00	PASS
				Peak	5720.000	-38.94	≤15.60	PASS
				Peak	5725.000	-34.35	≤27.00	PASS
		High	5825	Peak	5850.000	-37.05 8	≤27.00	PASS

				Peak	5855.000	-38.26	≤15.60	PASS
				Peak	5875.000	-38.5	≤10.00	PASS
				Peak	5925.000	-39.53	≤-27.00	PASS
11AC40SI SO	Ant1	Low	5755	Peak	5650.000	-40.38 2	≤-27.00	PASS
				Peak	5700.000	-39.95	≤10.00	PASS
				Peak	5720.000	-35.64	≤15.60	PASS
				Peak	5725.000	-35.71	≤27.00	PASS
		High	5795	Peak	5850.000	-38.20 5	≤27.00	PASS
				Peak	5855.000	-39.54	≤15.60	PASS
				Peak	5875.000	-39.18	≤10.00	PASS
				Peak	5925.000	-39.26	≤-27.00	PASS
11AC80SI SO	Ant1	Low	5775	Peak	5650.000	-39.06 7	≤-27.00	PASS
				Peak	5700.000	-35.93	≤10.00	PASS
				Peak	5720.000	-36.4	≤15.60	PASS
				Peak	5725.000	-30.17	≤27.00	PASS
		High	5775	Peak	5850.000	-37.79 1	≤27.00	PASS
				Peak	5855.000	-34.18	≤15.60	PASS
				Peak	5875.000	-37.89	≤10.00	PASS
				Peak	5925.000	-40.33	≤-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_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

