

Case No. : <u>CTA24101702004</u>	
Ambient Condition: <u>23</u> °C, <u>52</u> %RH	
According Standard: <u>■Part15E</u>	
Test Date: <u>2024.9.4</u>	Test Engineer: <u>Evan ouyang</u>

Appendix E.1: 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	15.000	5777.520	5792.520	0.5	PASS
		5825	15.000	5817.480	5832.480	0.5	PASS
11N20SISO	Ant1	5745	15.000	5737.480	5752.480	0.5	PASS
		5785	15.080	5777.440	5792.520	0.5	PASS
		5825	15.040	5817.440	5832.480	0.5	PASS
11N40SISO	Ant1	5755	32.480	5737.480	5769.960	0.5	PASS
		5795	31.280	5778.680	5809.960	0.5	PASS
11AC20SISO	Ant1	5745	15.080	5737.440	5752.520	0.5	PASS
		5785	15.080	5777.440	5792.520	0.5	PASS
		5825	15.040	5817.520	5832.560	0.5	PASS
11AC40SISO	Ant1	5755	33.840	5737.480	5771.320	0.5	PASS
		5795	32.560	5777.480	5810.040	0.5	PASS

Test Graphs B4

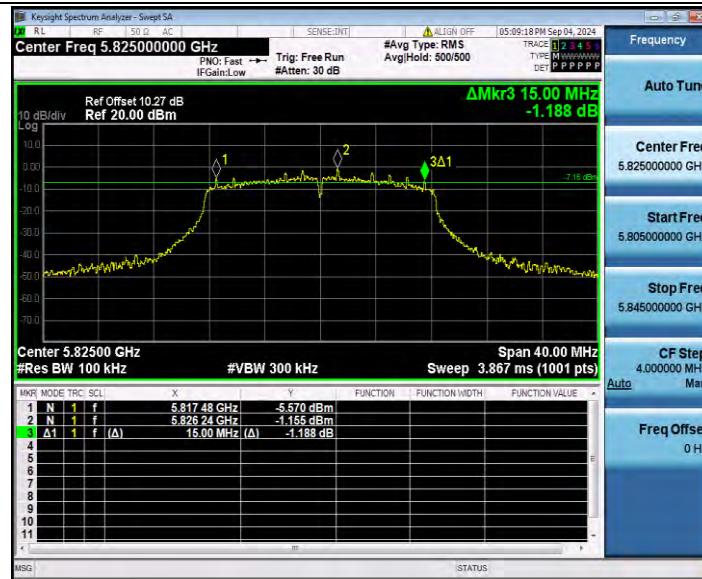
11A_Ant1_5745



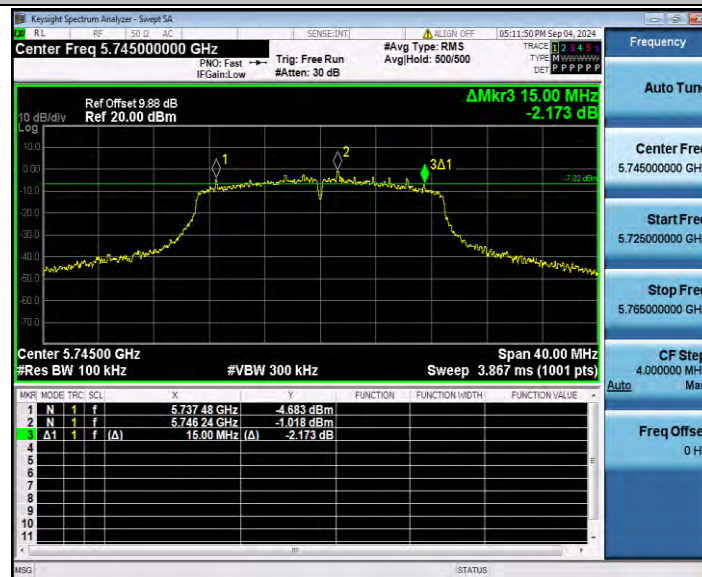
11A_Ant1_5785



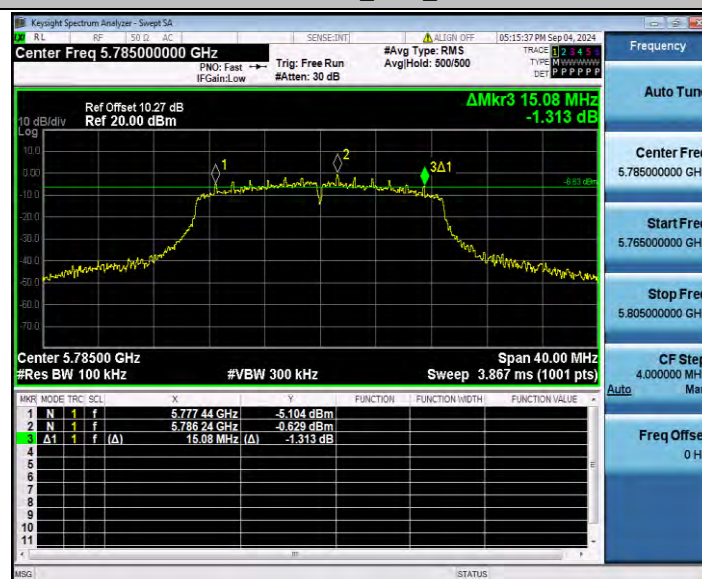
11A_Ant1_5825



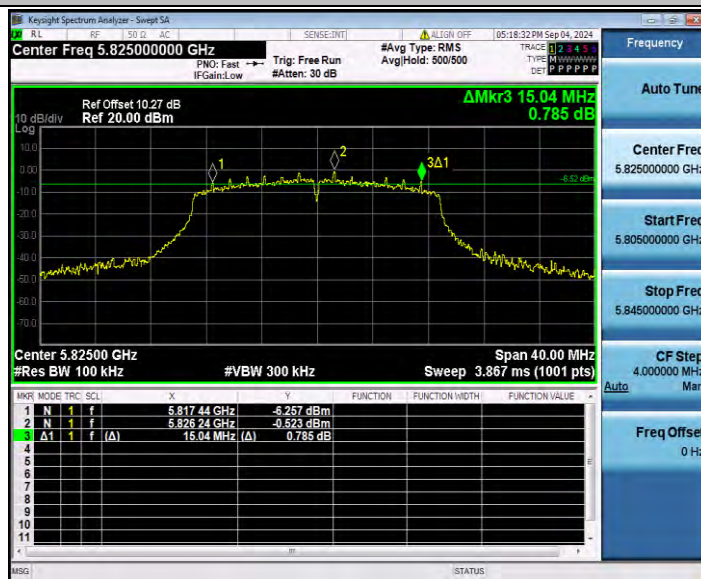
11N20SISO_Ant1_5745



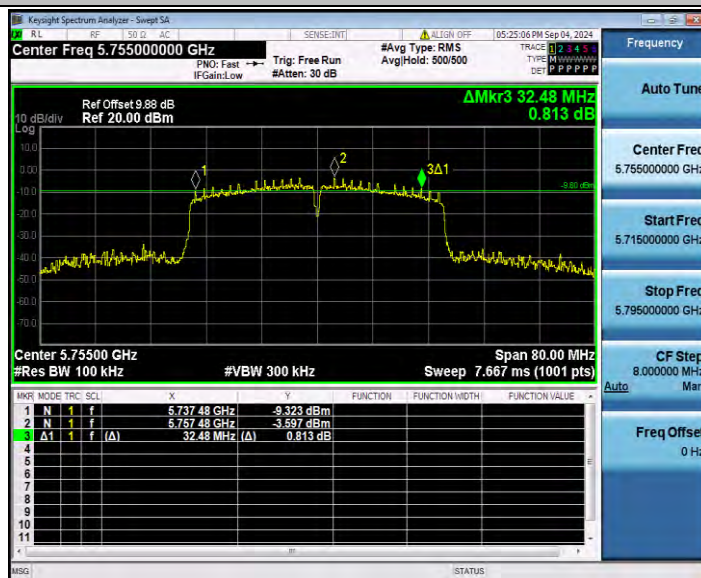
11N20SISO_Ant1_5785



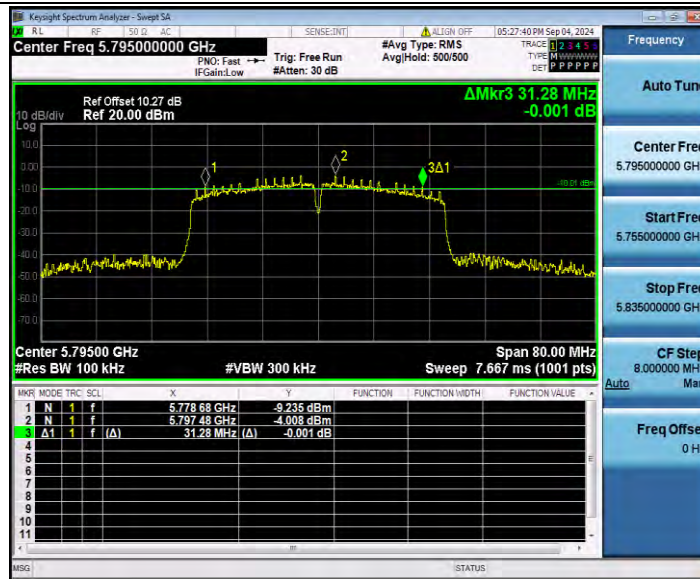
11N20SISO_Ant1_5825



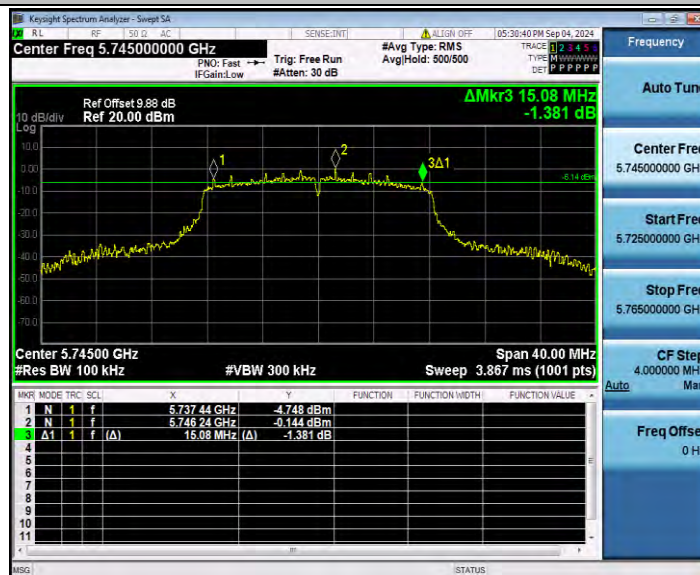
11N40SISO_Ant1_5755



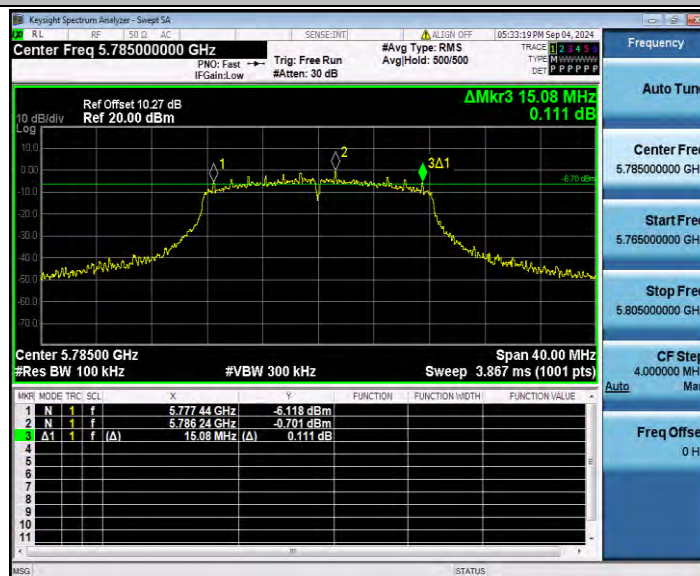
11N40SISO_Ant1_5795

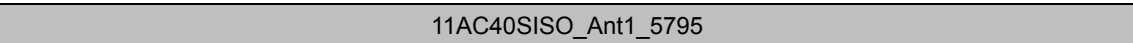
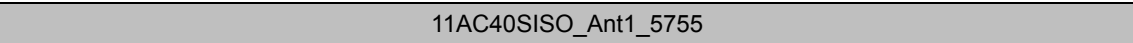


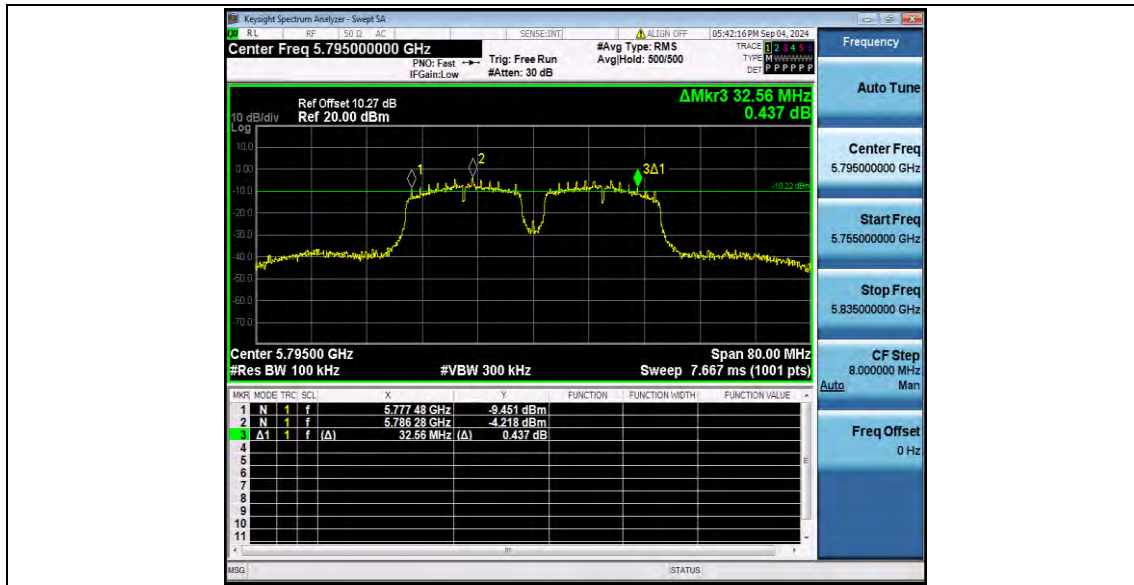
11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785







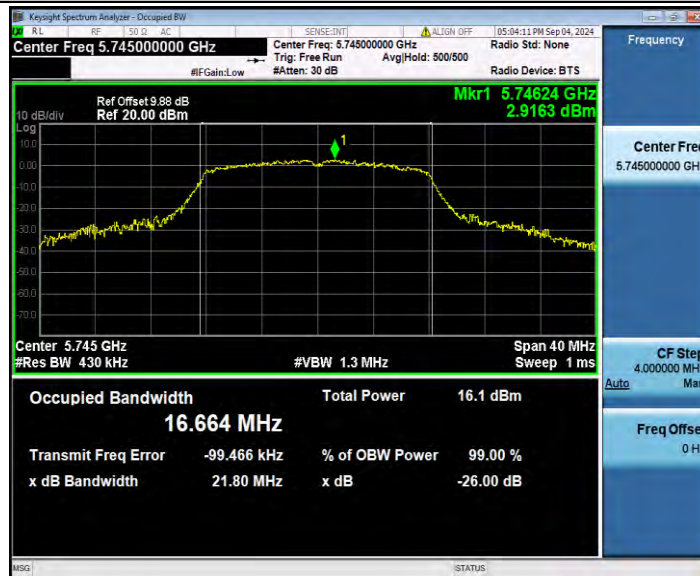
Appendix E.2: Occupied channel bandwidth

Test Result

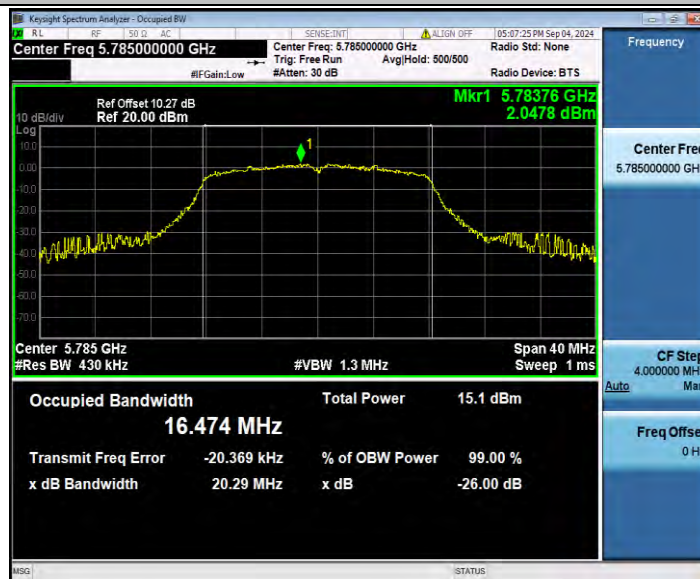
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.664	5736.5685	5753.2325	---	---
		5785	16.474	5776.7426	5793.2166	---	---
		5825	16.500	5816.7542	5833.2542	---	---
11N20SISO	Ant1	5745	17.629	5736.1061	5753.7351	---	---
		5785	17.577	5776.1495	5793.7265	---	---
		5825	17.588	5816.1459	5833.7339	---	---
11N40SISO	Ant1	5755	35.320	5737.2649	5772.5849	---	---
		5795	35.317	5777.2825	5812.5995	---	---
11AC20SISO	Ant1	5745	16.640	5736.6489	5753.2889	---	---
		5785	16.465	5776.7500	5793.2150	---	---
		5825	16.513	5816.7056	5833.2186	---	---
11AC40SISO	Ant1	5755	36.808	5736.4278	5773.2358	---	---
		5795	36.203	5776.7911	5812.9941	---	---

Test Graphs

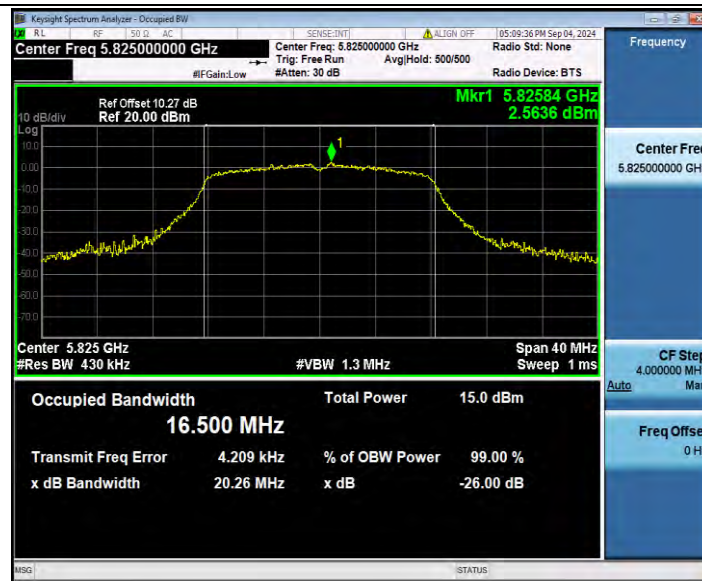
11A_Ant1_5745



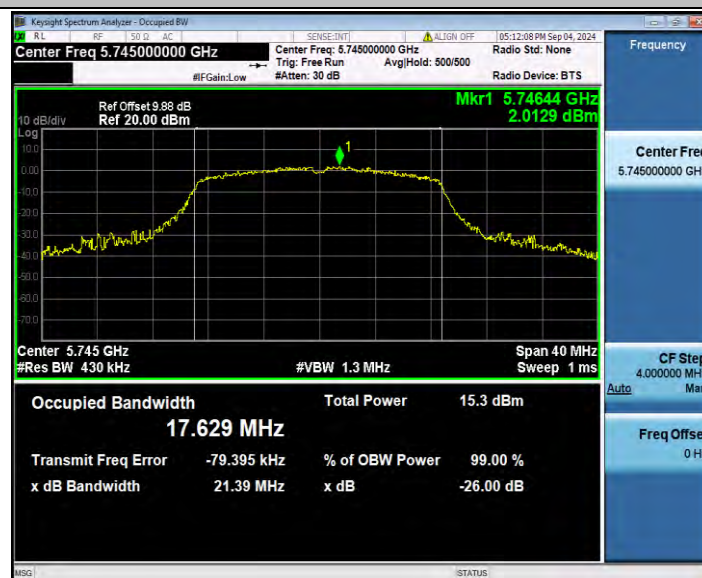
11A_Ant1_5785



11A_Ant1_5825



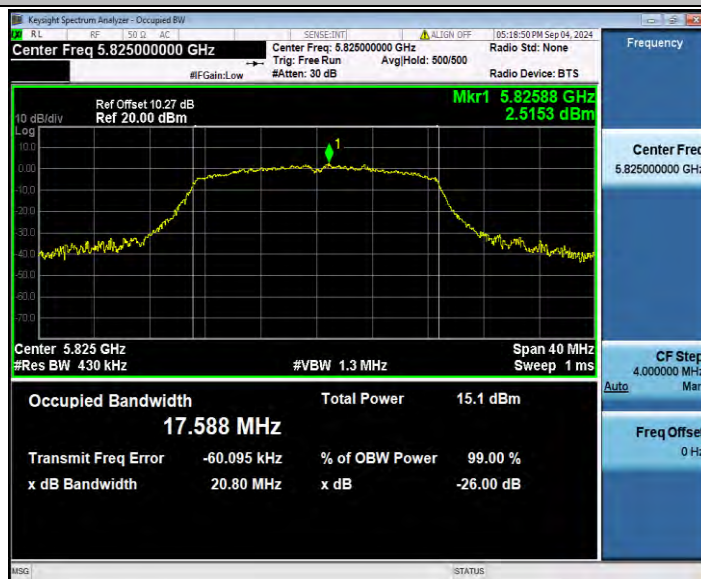
11N20SISO_Ant1_5745



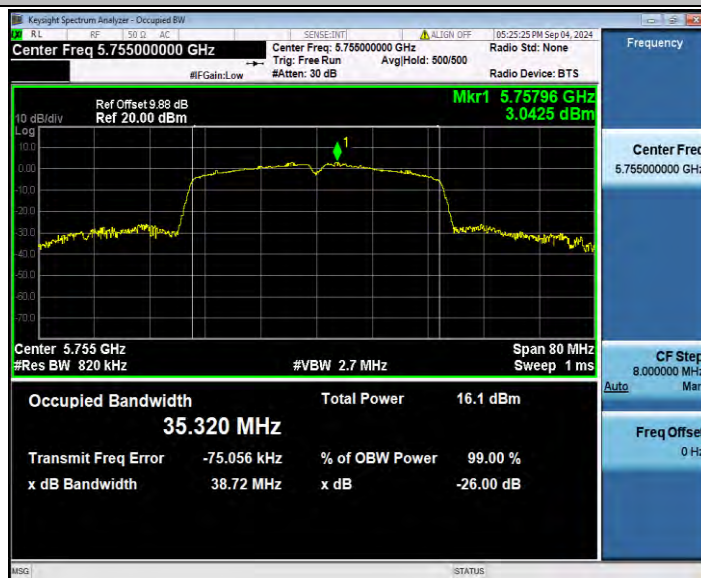
11N20SISO_Ant1_5785



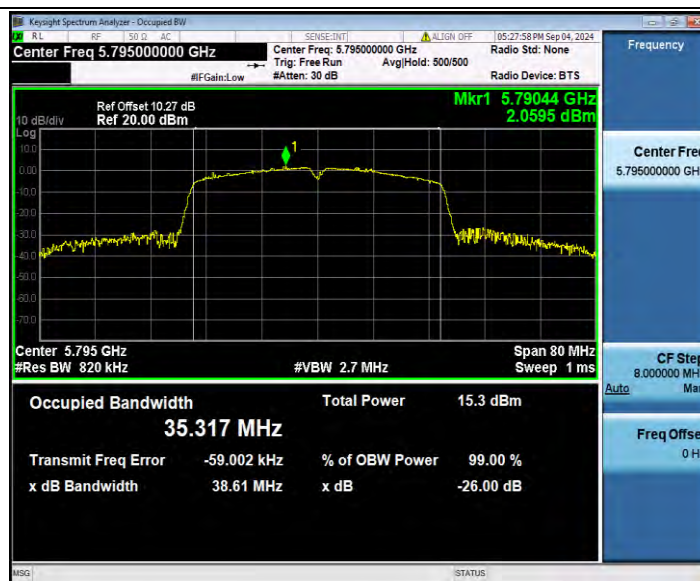
11N20SISO_Ant1_5825



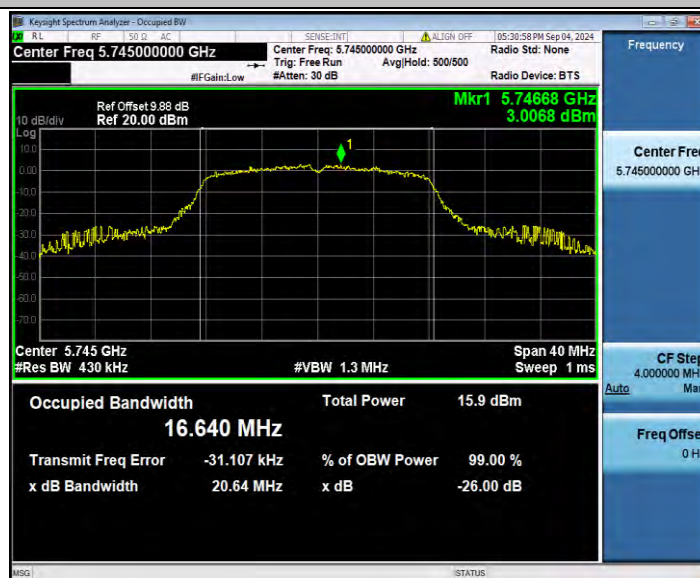
11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



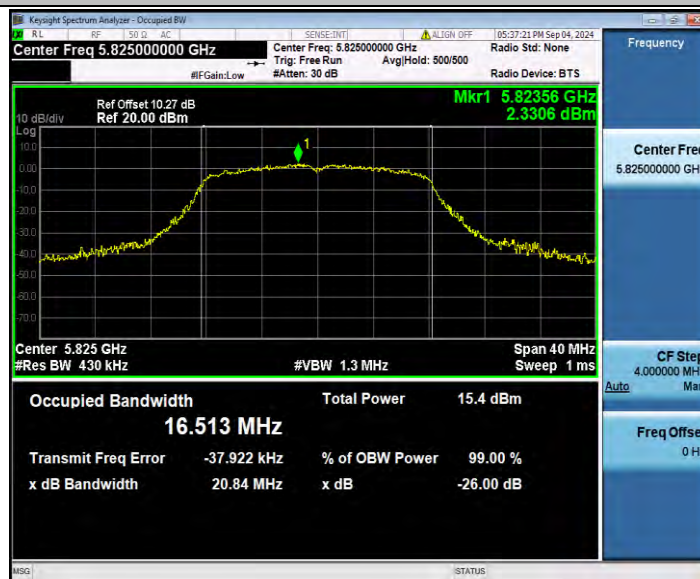
11AC20SISO_Ant1_5745



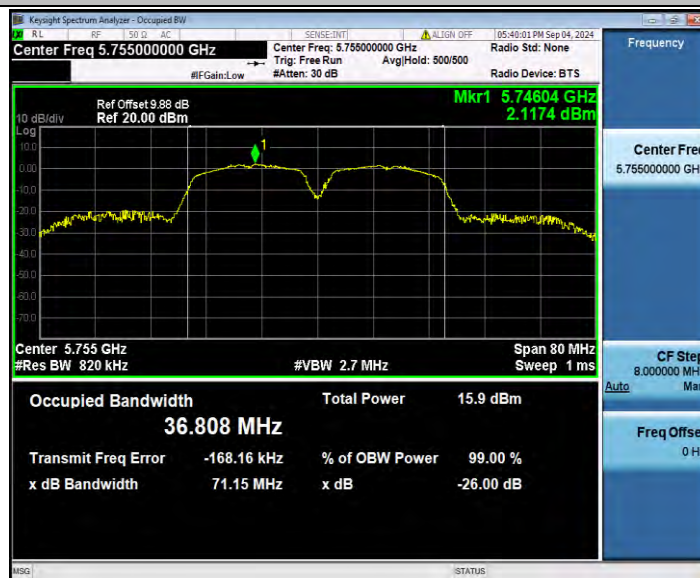
11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



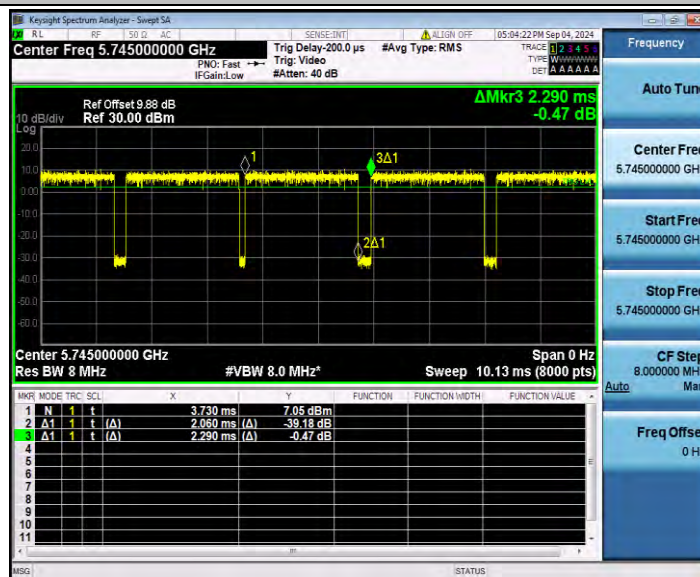
Appendix E.3: Duty Cycle

Test Result

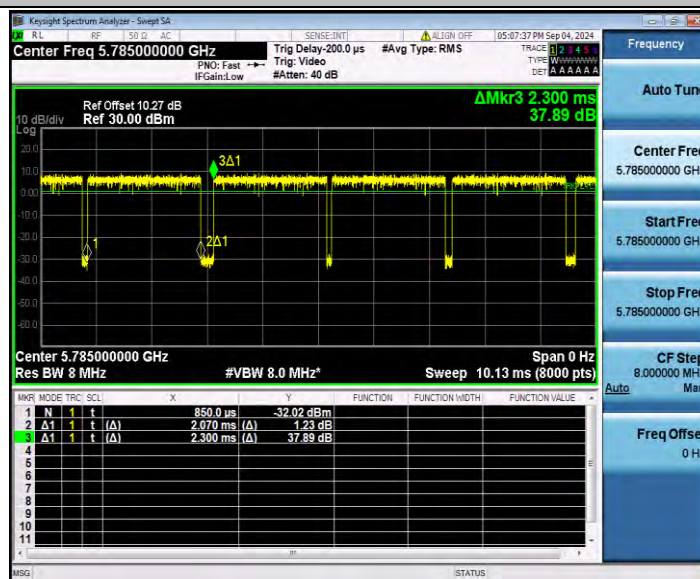
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5745	2.06	2.29	89.96	0.46	0.49
		5785	2.07	2.30	90.00	0.46	0.48
		5825	2.07	2.29	90.39	0.44	0.48
11N20SISO	Ant1	5745	1.92	2.15	89.30	0.49	0.52
		5785	1.92	2.11	91.00	0.41	0.52
		5825	1.92	2.15	89.30	0.49	0.52
11N40SISO	Ant1	5755	0.95	1.17	81.20	0.90	1.05
		5795	0.95	1.18	80.51	0.94	1.05
11AC20SISO	Ant1	5745	2.07	2.54	81.50	0.89	0.48
		5785	2.07	2.49	83.13	0.80	0.48
		5825	2.06	2.53	81.42	0.89	0.49
11AC40SISO	Ant1	5755	2.06	2.49	82.73	0.82	0.49
		5795	2.06	2.55	80.78	0.93	0.49

Test Graphs

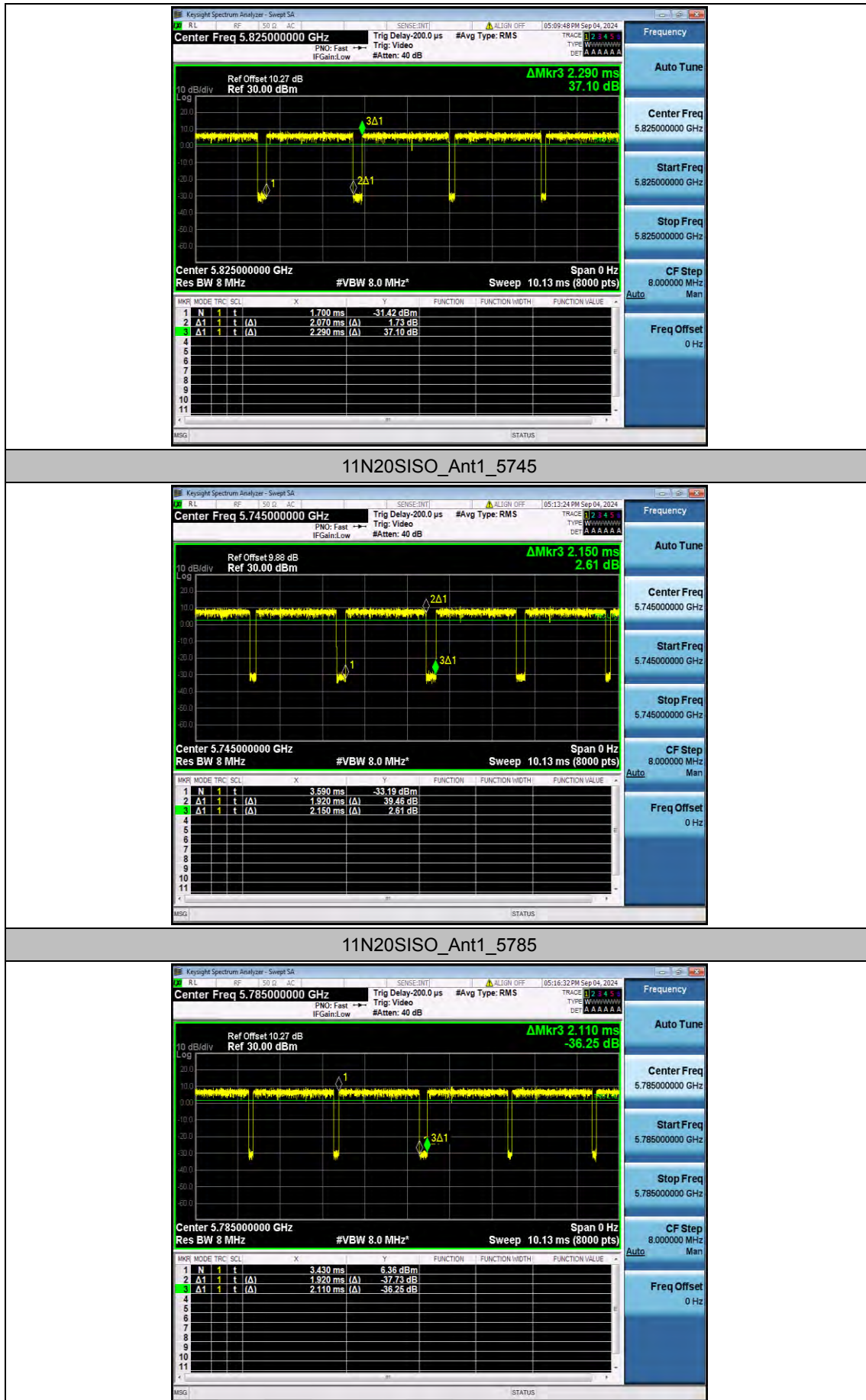
11A_Ant1_5745



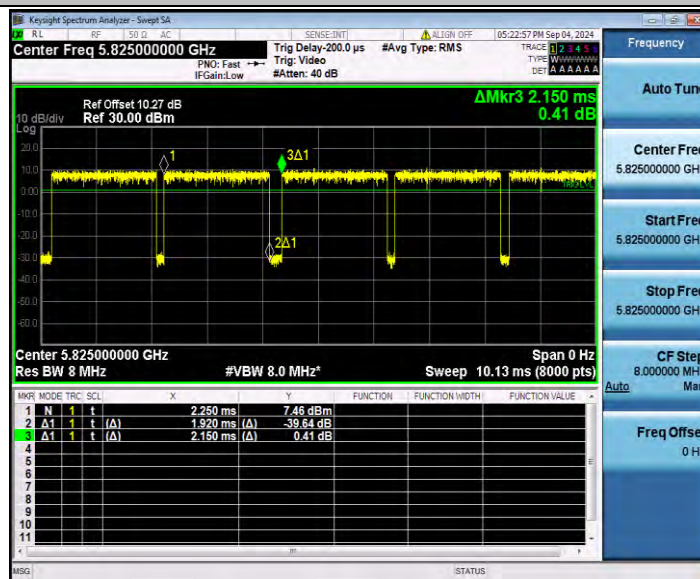
11A_Ant1_5785



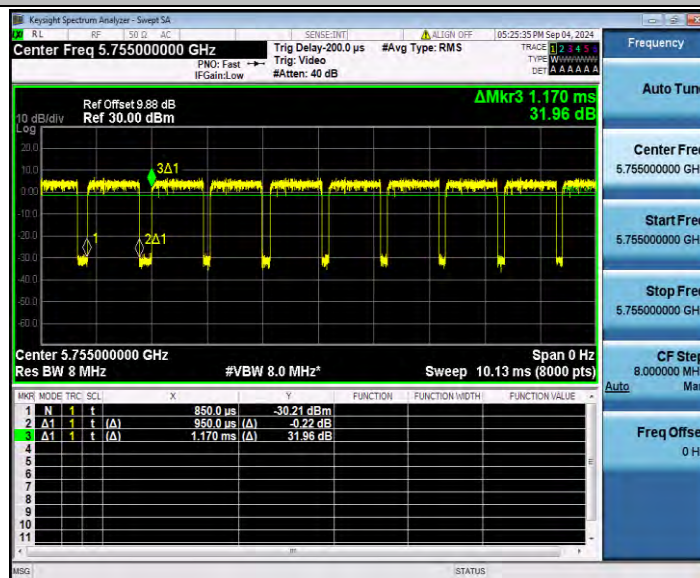
11A_Ant1_5825



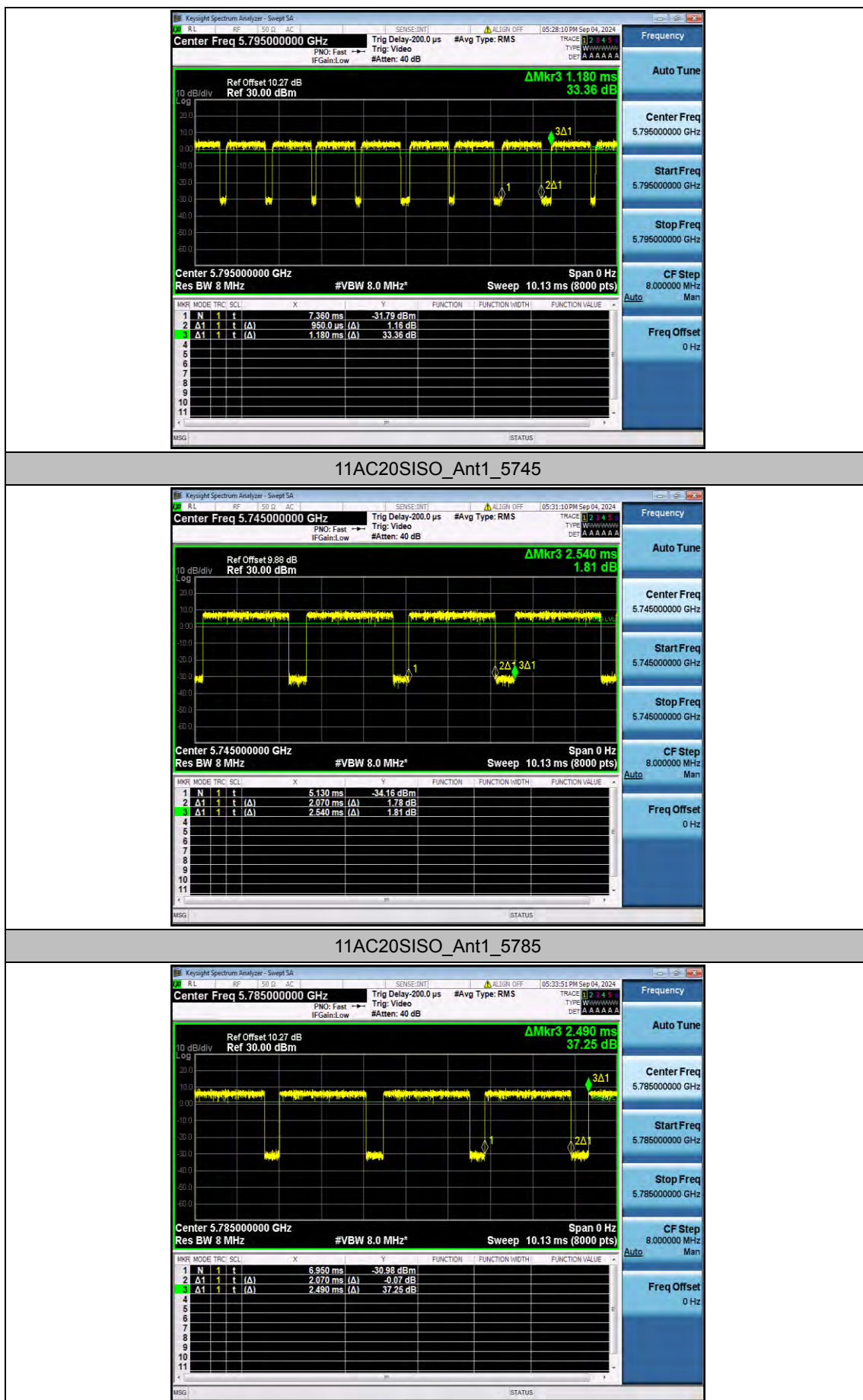
11N20SISO_Ant1_5825



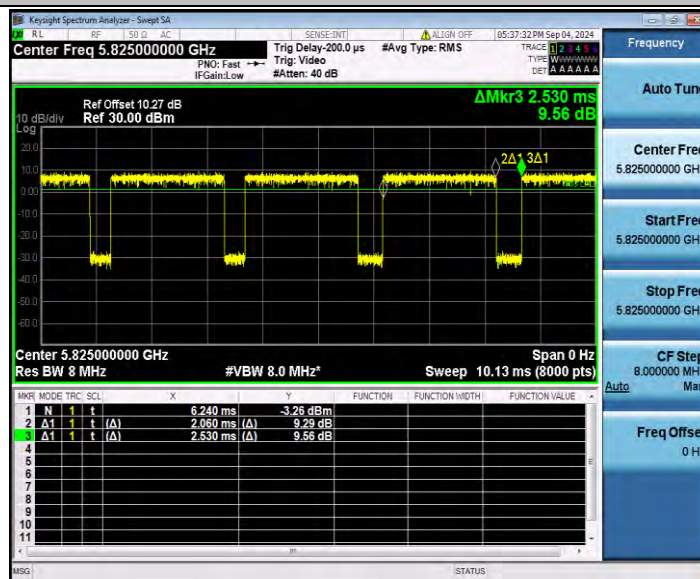
11N40SISO_Ant1_5755



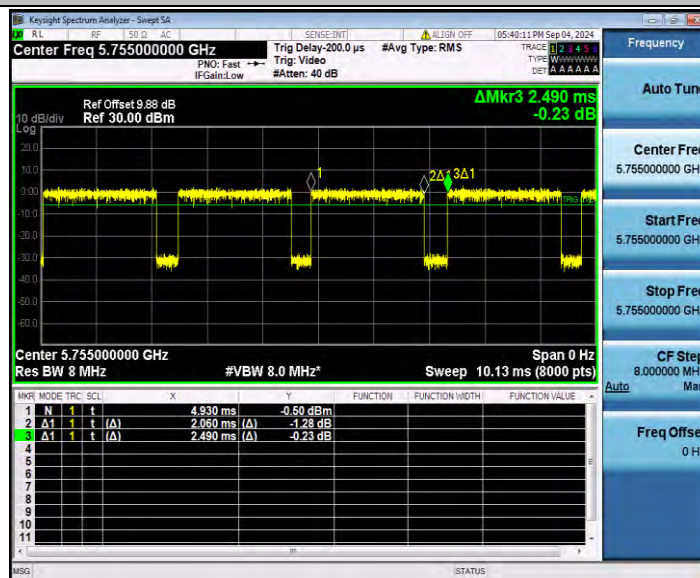
11N40SISO_Ant1_5795



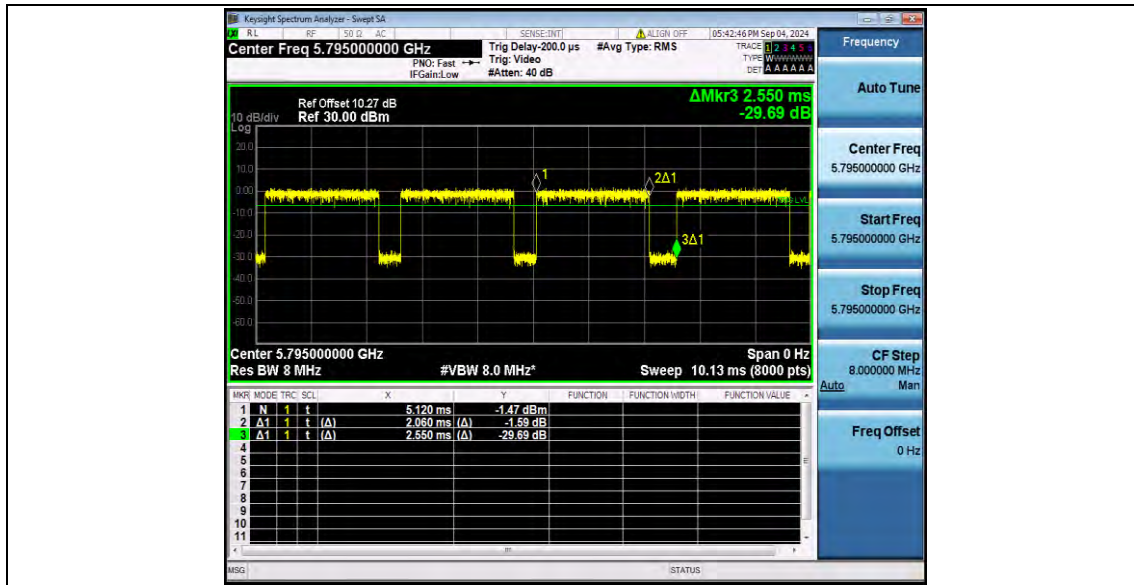
11AC20SISO_Ant1_5825



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	9.08	89.96	0.46	9.54	≤30.00	PASS
		5785	8.17	90.00	0.46	8.63	≤30.00	PASS
		5825	8.04	90.39	0.44	8.48	≤30.00	PASS
11N20SISO	Ant1	5745	9.41	89.30	0.49	9.90	≤30.00	PASS
		5785	8.59	91.00	0.41	9.00	≤30.00	PASS
		5825	9.31	89.30	0.49	9.80	≤30.00	PASS
11N40SISO	Ant1	5755	8.11	81.20	0.90	9.01	≤30.00	PASS
		5795	7.43	80.51	0.94	8.37	≤30.00	PASS
11AC20SISO	Ant1	5745	8.59	81.50	0.89	9.48	≤30.00	PASS
		5785	7.83	83.13	0.80	8.63	≤30.00	PASS
		5825	8.03	81.42	0.89	8.92	≤30.00	PASS
11AC40SISO	Ant1	5755	8.00	82.73	0.82	8.82	≤30.00	PASS
		5795	7.17	80.78	0.93	8.10	≤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	-2.97	≤30.00	PASS
		5785	-4.08	≤30.00	PASS
		5825	-4.17	≤30.00	PASS
11N20SISO	Ant1	5745	-3.05	≤30.00	PASS
		5785	-4.06	≤30.00	PASS
		5825	-3.24	≤30.00	PASS
11N40SISO	Ant1	5755	-6.62	≤30.00	PASS
		5795	-7.25	≤30.00	PASS
11AC20SISO	Ant1	5745	-2.68	≤30.00	PASS
		5785	-3.67	≤30.00	PASS
		5825	-3.26	≤30.00	PASS
11AC40SISO	Ant1	5755	-5.93	≤30.00	PASS
		5795	-6.69	≤30.00	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

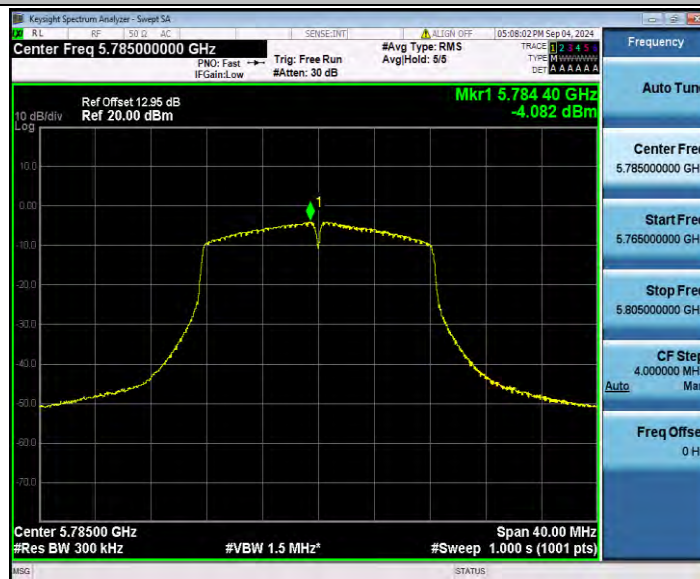
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

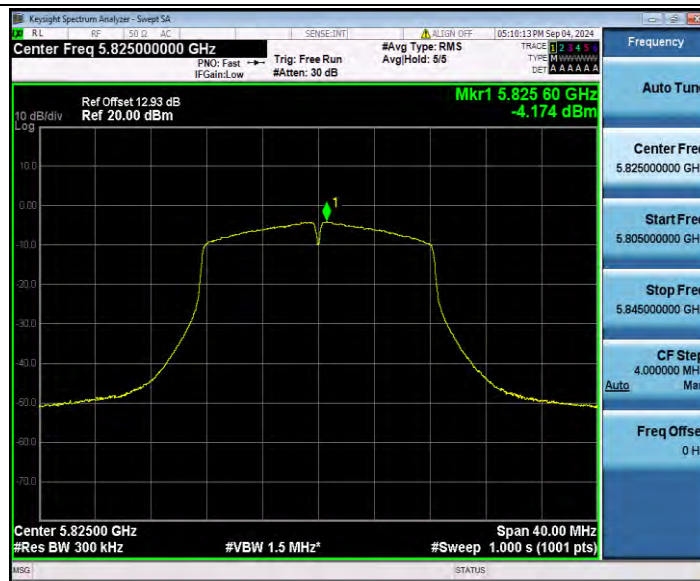
11A_Ant1_5745



11A_Ant1_5785



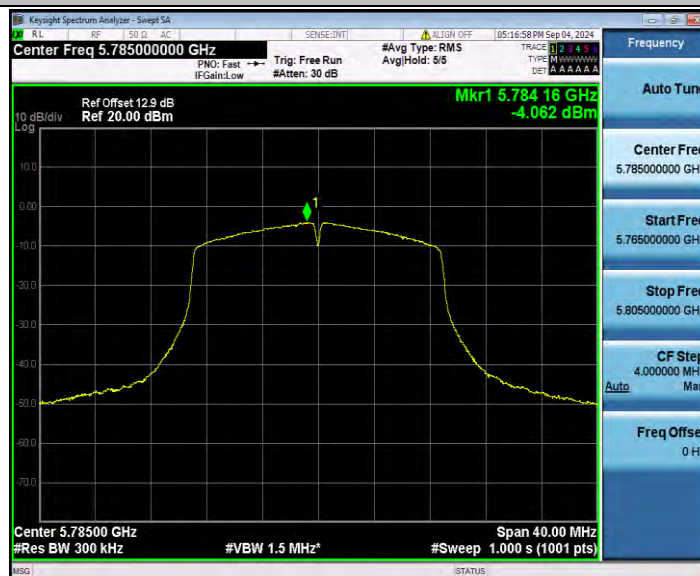
11A_Ant1_5825



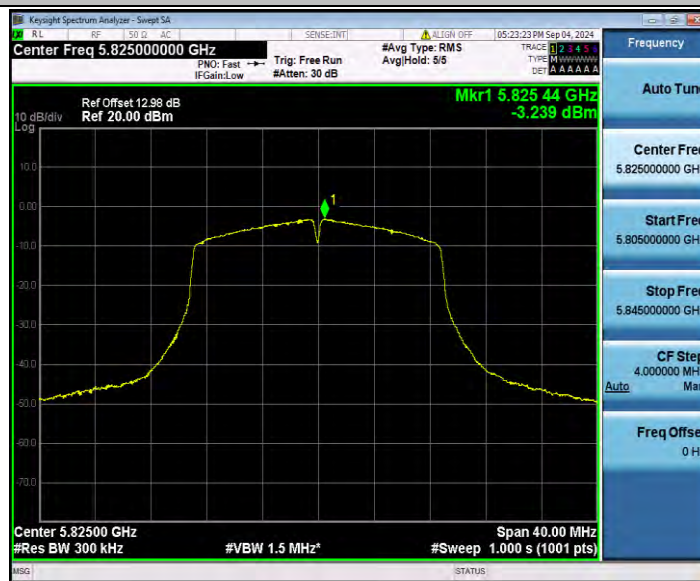
11N20SISO_Ant1_5745



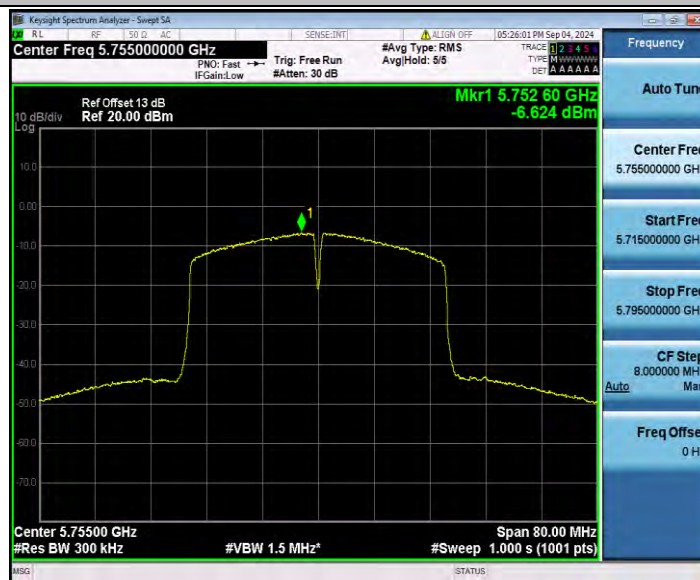
11N20SISO_Ant1_5785



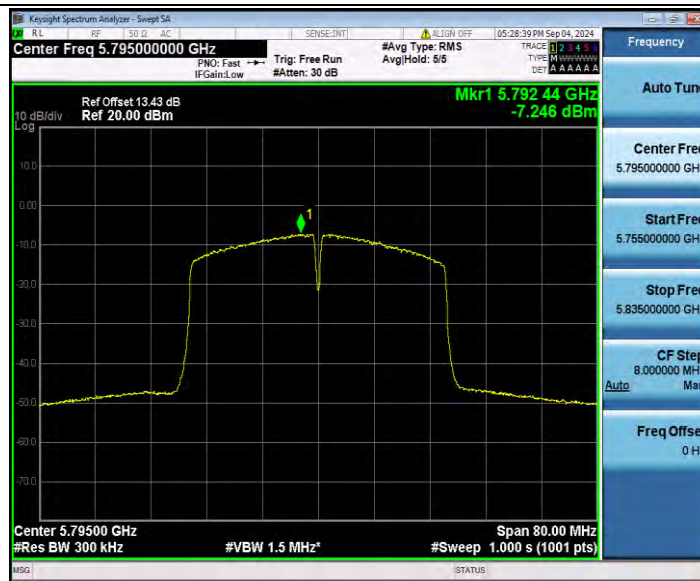
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



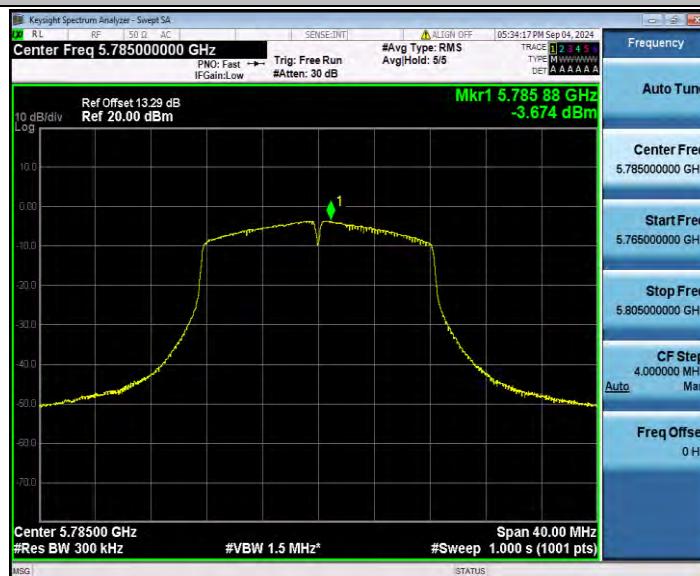
11N40SISO_Ant1_5795



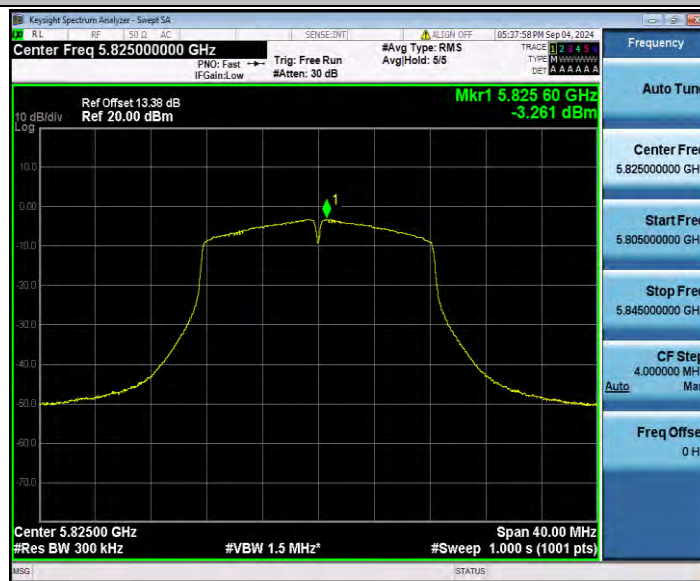
11AC20SISO_Ant1_5745



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	-40.2	≤ -26.87	PASS
				5700~5720	-39.52	≤ 10.73	PASS
				5720~5725	-30.53	≤ 23.16	PASS
				5760~5650	-39.11	≤ -27	PASS
		High	5825	5850~5855	-40.22	≤ 15.73	PASS
				5855~5875	-39.47	≤ 10.25	PASS
				5875~5925	-39.28	≤ -26.91	PASS
				5925~5935	-38.55	≤ -27	PASS
11N20SI SO	Ant1	Low	5745	5650~5700	-40.19	≤ -26.87	PASS
				5700~5720	-39.4	≤ 10.64	PASS
				5720~5725	-30.69	≤ 23.68	PASS
				5760~5650	-39.09	≤ -27	PASS
		High	5825	5850~5855	-40.4	≤ 15.73	PASS
				5855~5875	-38.24	≤ 10.70	PASS
				5875~5925	-39.21	≤ -26.71	PASS
				5925~5935	-38.41	≤ -27	PASS
11N40SI SO	Ant1	Low	5755	5650~5700	-39.62	≤ -26.00	PASS
				5700~5720	-29.87	≤ 15.58	PASS
				5720~5725	-28.84	≤ 16.35	PASS
				5780~5650	-39.27	≤ -27	PASS
		High	5795	5850~5855	-40.25	≤ 15.66	PASS
				5855~5875	-38.81	≤ 10.20	PASS
				5875~5925	-39.53	≤ -26.71	PASS
				5925~5935	-38.12	≤ -27	PASS
11AC20S ISO	Ant1	Low	5745	5650~5700	-40.54	≤ -26.79	PASS
				5700~5720	-40.03	≤ 10.06	PASS
				5720~5725	-38.16	≤ 17.65	PASS
				5760~5650	-39.72	≤ -27	PASS
		High	5825	5850~5855	-40.34	≤ 15.73	PASS
				5855~5875	-38.32	≤ 10.51	PASS
				5875~5925	-38.72	≤ -26.41	PASS
				5925~5935	-38.9	≤ -27	PASS
11AC40S ISO	Ant1	Low	5755	5650~5700	-40.77	≤ -26.90	PASS
				5700~5720	-21.76	≤ 15.35	PASS
				5720~5725	-21.47	≤ 16.35	PASS
				5780~5650	-39.69	≤ -27	PASS

		High	5795	5850~5855	-39.5	≤ 15.66	PASS
				5855~5875	-39.52	≤ 10.34	PASS
				5875~5925	-39.29	≤ -26.22	PASS
				5925~5935	-37.98	≤ -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



Appendix E.7: Conducted Spurious Emission

Test Result

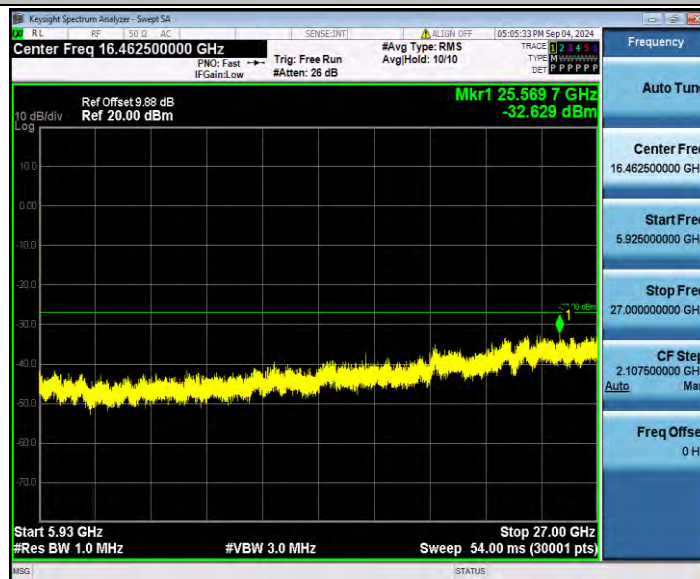
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	30~5650	4976.54	-39.24	≤-27	PASS
			5925~27000	25569.71	-32.63	≤-27	PASS
		5785	30~5650	5490.02	-39.63	≤-27	PASS
			5925~27000	24833.49	-31.04	≤-27	PASS
		5825	30~5650	5440.56	-39.92	≤-27	PASS
			5925~27000	25595	-31.78	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	5460.98	-40.17	≤-27	PASS
			5925~27000	23468.53	-32.59	≤-27	PASS
		5785	30~5650	5433.26	-39.93	≤-27	PASS
			5925~27000	26036.17	-31.29	≤-27	PASS
		5825	30~5650	5516.62	-39.24	≤-27	PASS
			5925~27000	24284.84	-31.61	≤-27	PASS
11N40SISO	Ant1	5755	30~5650	5399.91	-39.75	≤-27	PASS
			5925~27000	25976.46	-31.3	≤-27	PASS
		5795	30~5650	5557.83	-40.5	≤-27	PASS
			5925~27000	24855.27	-31.75	≤-27	PASS
11AC20SISO	Ant1	5745	30~5650	4955.18	-40.29	≤-27	PASS
			5925~27000	26889.01	-32.54	≤-27	PASS
		5785	30~5650	2646.11	-39.95	≤-27	PASS
			5925~27000	24282.03	-31.2	≤-27	PASS
		5825	30~5650	5394.1	-39.74	≤-27	PASS
			5925~27000	25323.13	-32	≤-27	PASS
11AC40SISO	Ant1	5755	30~5650	5487.77	-40.43	≤-27	PASS
			5925~27000	24305.91	-32.42	≤-27	PASS
		5795	30~5650	5612.16	-39.23	≤-27	PASS
			5925~27000	25262.02	-30.74	≤-27	PASS

Test Graphs

11A_Ant1_5745_30~5650



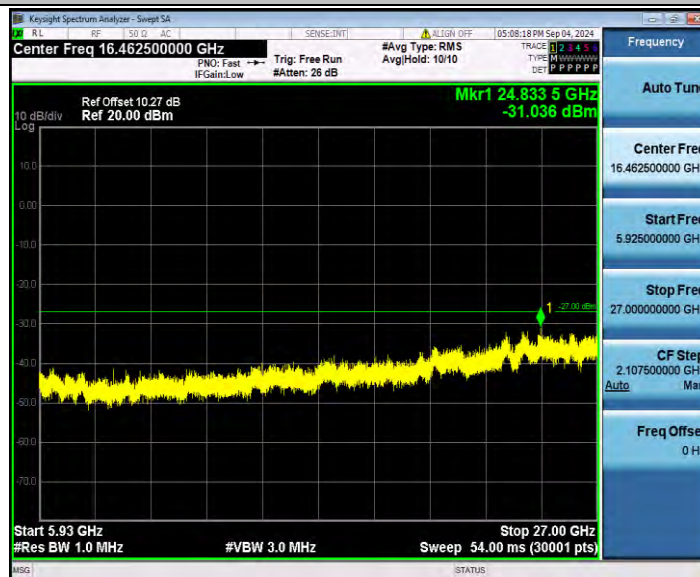
11A_Ant1_5745_5925~27000



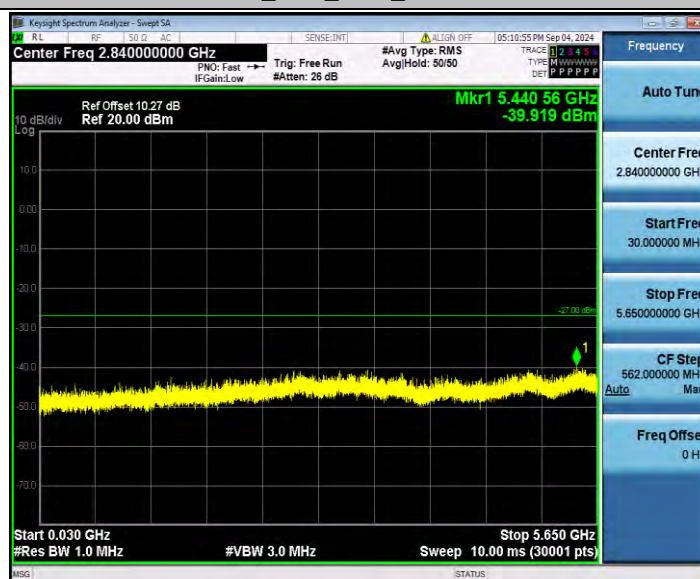
11A_Ant1_5785_30~5650



11A_Ant1_5785_5925~27000



11A_Ant1_5825_30~5650



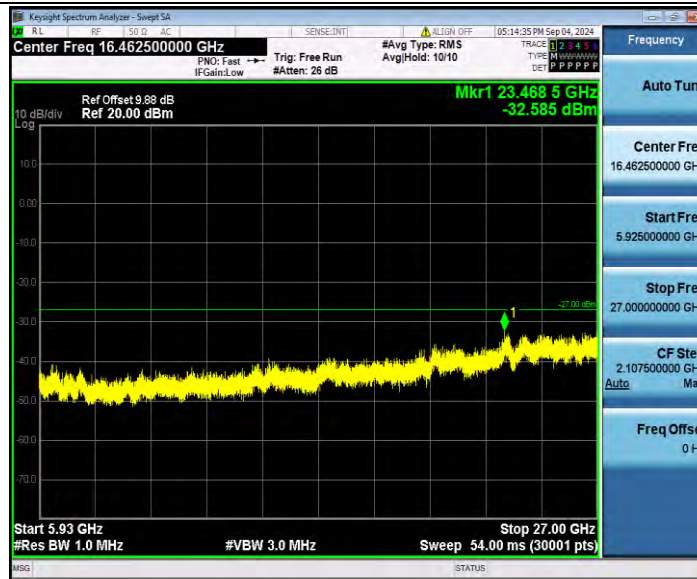
11A_Ant1_5825_5925~27000



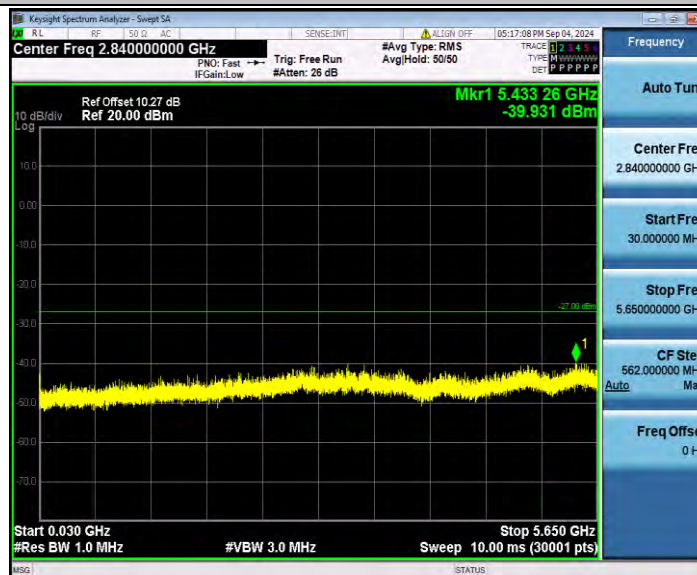
11N20SISO_Ant1_5745_30~5650



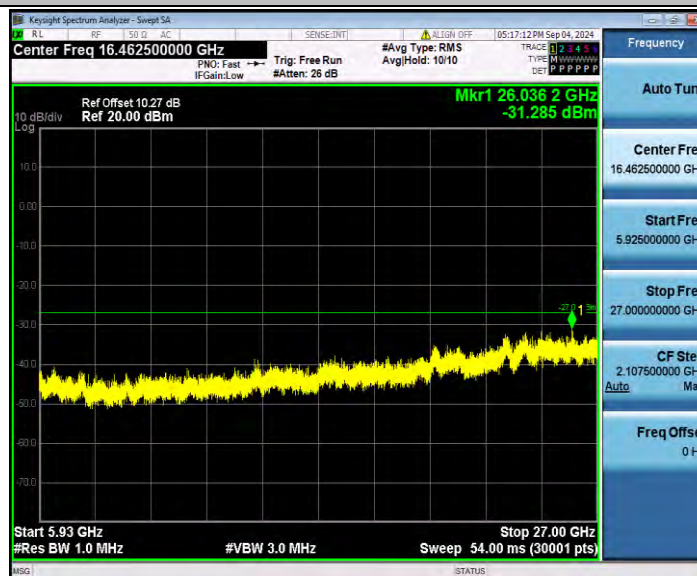
11N20SISO_Ant1_5745_5925~27000



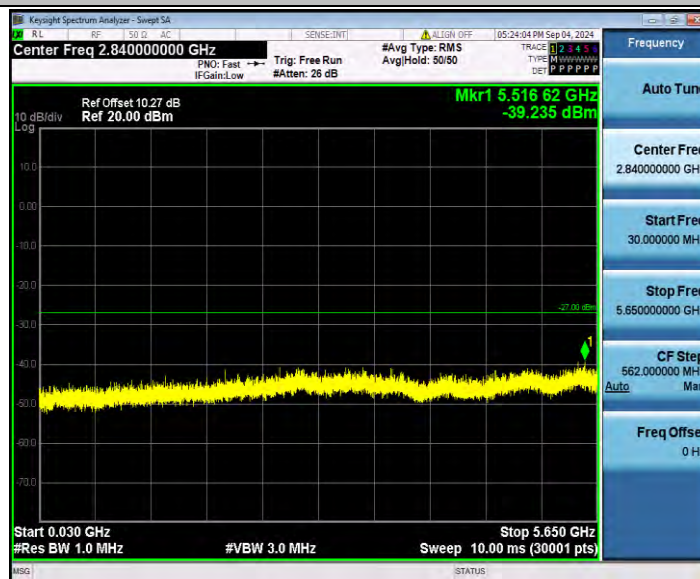
11N20SISO_Ant1_5785_30~5650



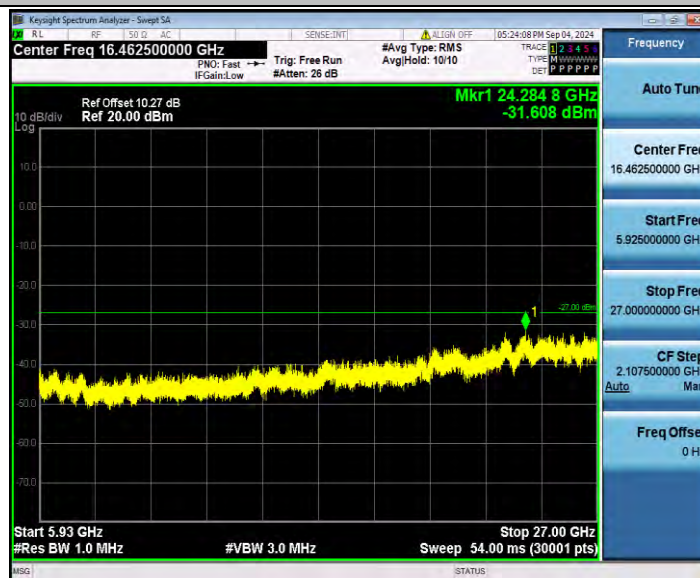
11N20SISO_Ant1_5785_5925~27000



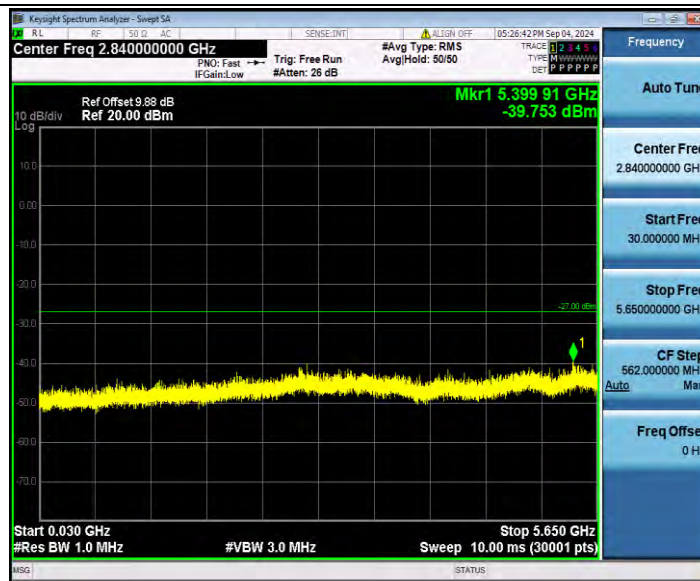
11N20SISO_Ant1_5825_30~5650



11N20SISO_Ant1_5825_5925~27000



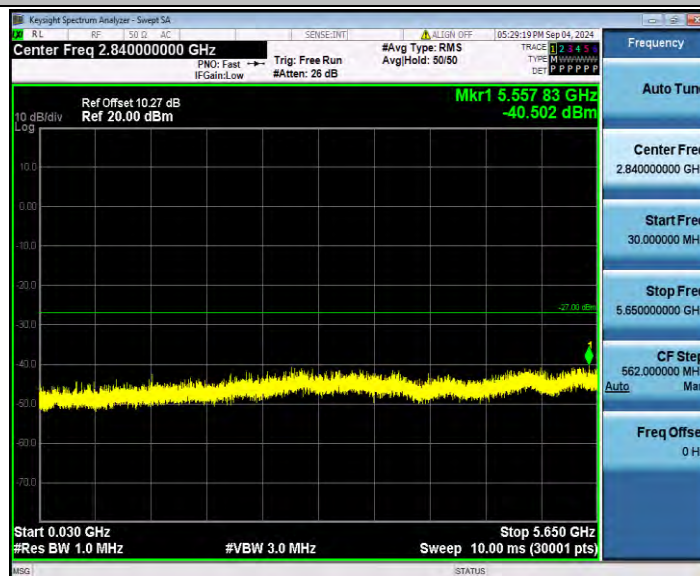
11N40SISO_Ant1_5755_30~5650



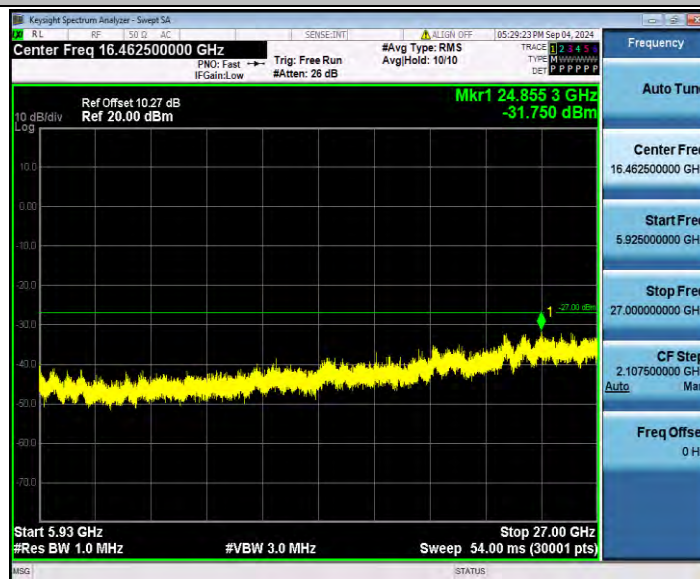
11N40SISO_Ant1_5755_5925~27000



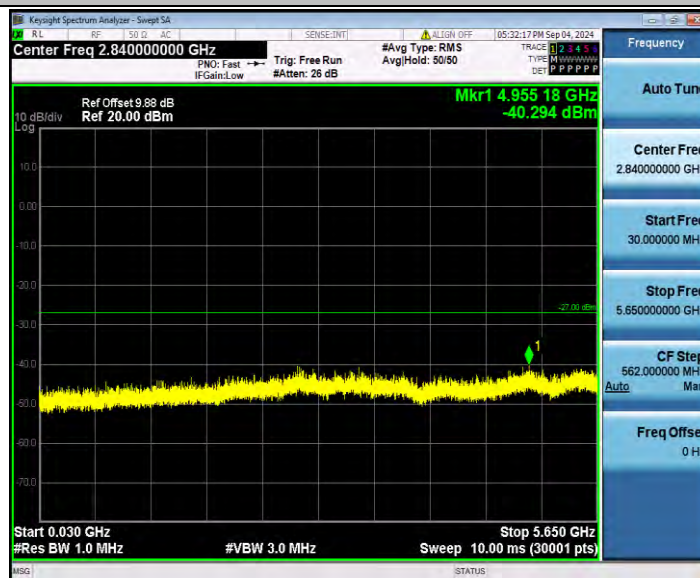
11N40SISO_Ant1_5795_30~5650



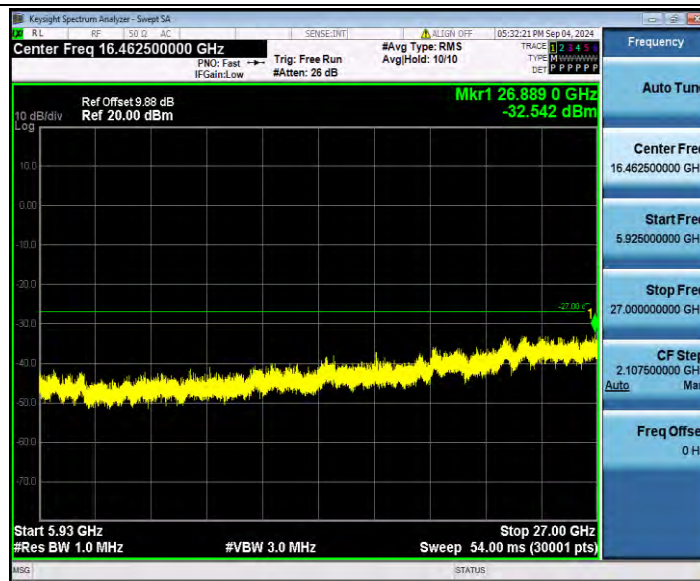
11N40SISO_Ant1_5795_5925~27000



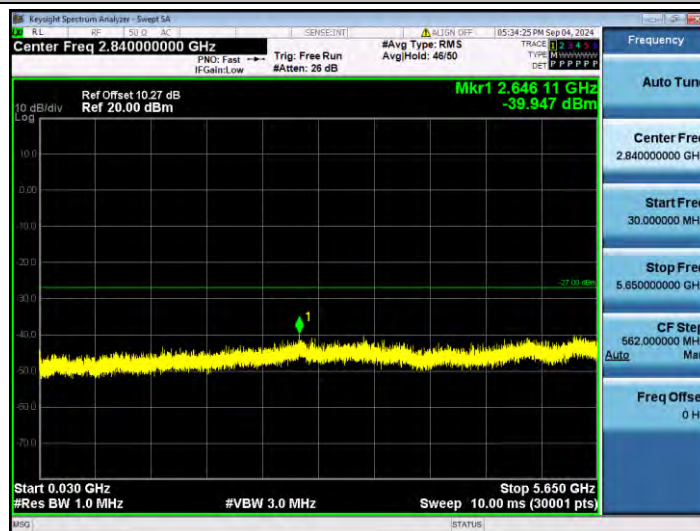
11AC20SISO_Ant1_5745_30~5650



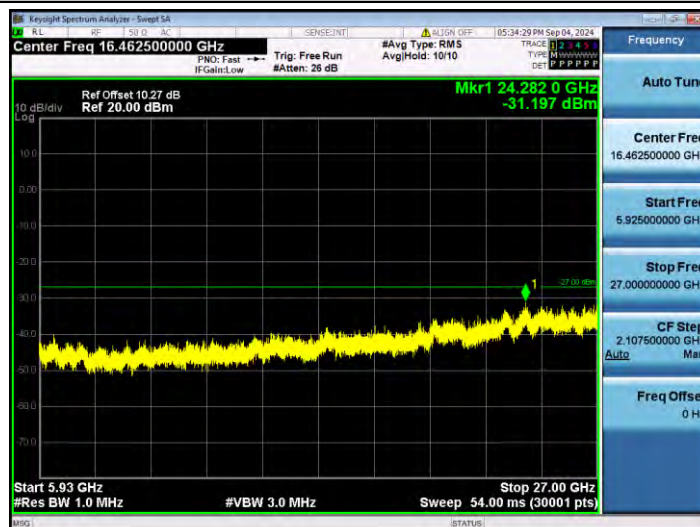
11AC20SISO_Ant1_5745_5925~27000



11AC20SISO_Ant1_5785_30~5650



11AC20SISO_Ant1_5785_5925~27000



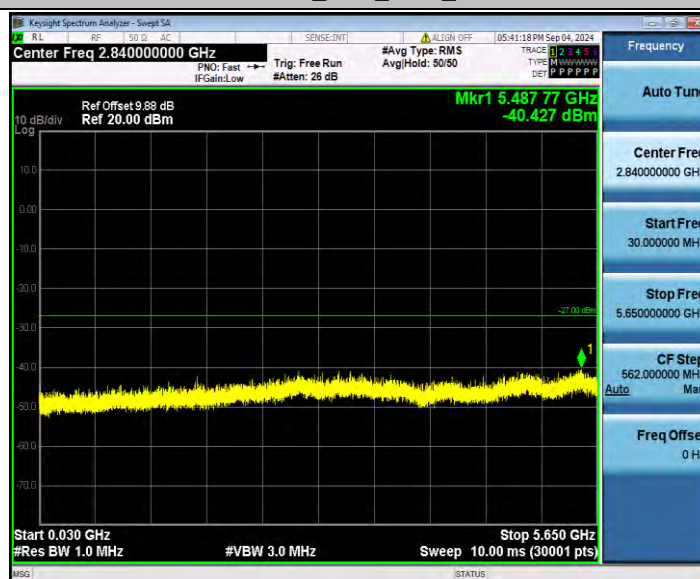
11AC20SISO_Ant1_5825_30~5650



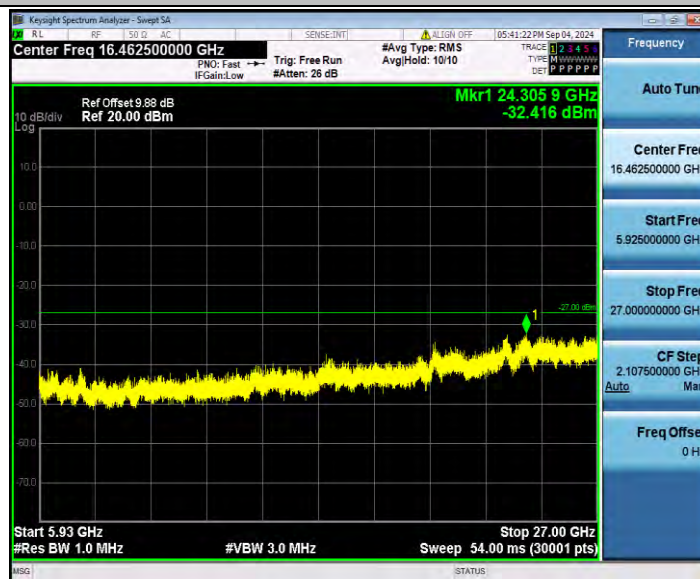
11AC20SISO_Ant1_5825_5925~27000



11AC40SISO_Ant1_5755_30~5650



11AC40SISO_Ant1_5755_5925~27000



11AC40SISO_Ant1_5795_30~5650



11AC40SISO_Ant1_5795_5925~27000



Appendix E.8: Emissions in Restricted Bands

Test Result

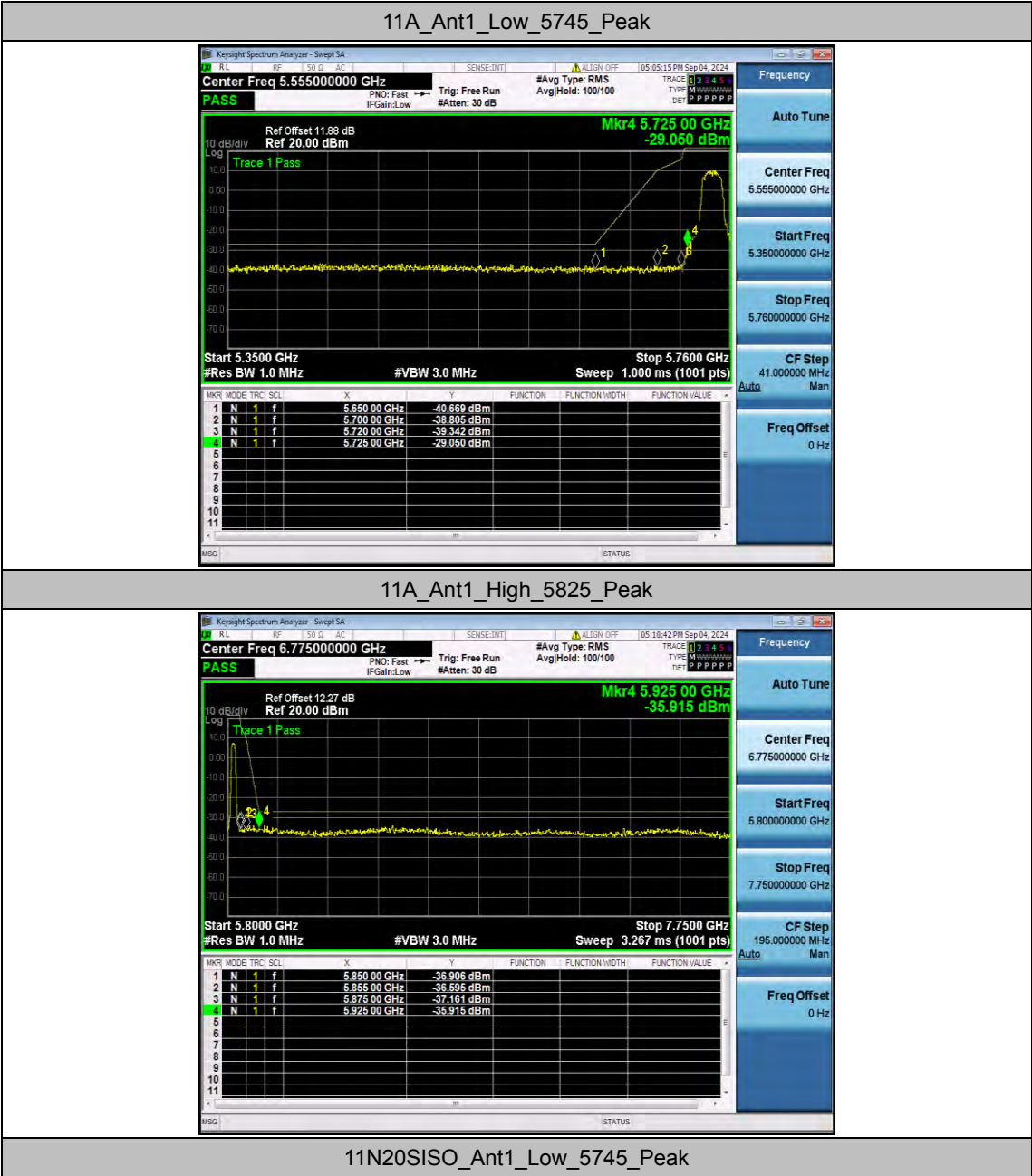
TestMode	Antenna	ChName	Freq(MHz)	Detector	Freq [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	Peak	5650.000	-40.669	≤-27.00	PASS
				Peak	5700.000	-38.81	≤10.00	PASS
				Peak	5720.000	-39.34	≤15.60	PASS
				Peak	5725.000	-29.05	≤27.00	PASS
		High	5825	Peak	5850.000	-36.906	≤27.00	PASS
				Peak	5855.000	-36.6	≤15.60	PASS
				Peak	5875.000	-37.16	≤10.00	PASS
				Peak	5925.000	-35.92	≤-27.00	PASS
11N20SISO	Ant1	Low	5745	Peak	5650.000	-40.003	≤-27.00	PASS
				Peak	5700.000	-40.21	≤10.00	PASS
				Peak	5720.000	-38.1	≤15.60	PASS
				Peak	5725.000	-29.77	≤27.00	PASS
		High	5825	Peak	5850.000	-35.733	≤27.00	PASS
				Peak	5855.000	-35.66	≤15.60	PASS
				Peak	5875.000	-37.74	≤10.00	PASS
				Peak	5925.000	-36.15	≤-27.00	PASS
11N40SISO	Ant1	Low	5755	Peak	5650.000	-39.486	≤-27.00	PASS
				Peak	5700.000	-40.22	≤10.00	PASS
				Peak	5720.000	-31.38	≤15.60	PASS
				Peak	5725.000	-30.42	≤27.00	PASS
		High	5795	Peak	5850.000	-35.389	≤27.00	PASS
				Peak	5855.000	-37.15	≤15.60	PASS
				Peak	5875.000	-36.95	≤10.00	PASS
				Peak	5925.000	-36.08	≤-27.00	PASS
11AC20SISO	Ant1	Low	5745	Peak	5650.000	-40.421	≤-27.00	PASS
				Peak	5700.000	-39.5	≤10.00	PASS
				Peak	5720.000	-39.43	≤15.60	PASS
				Peak	5725.000	-32.52	≤27.00	PASS
		High	5825	Peak	5850.000	-36.803	≤27.00	PASS
				Peak	5855.000	-36.72	≤15.60	PASS
				Peak	5875.000	-35.43	≤10.00	PASS
				Peak	5925.000	-36.26	≤-27.00	PASS

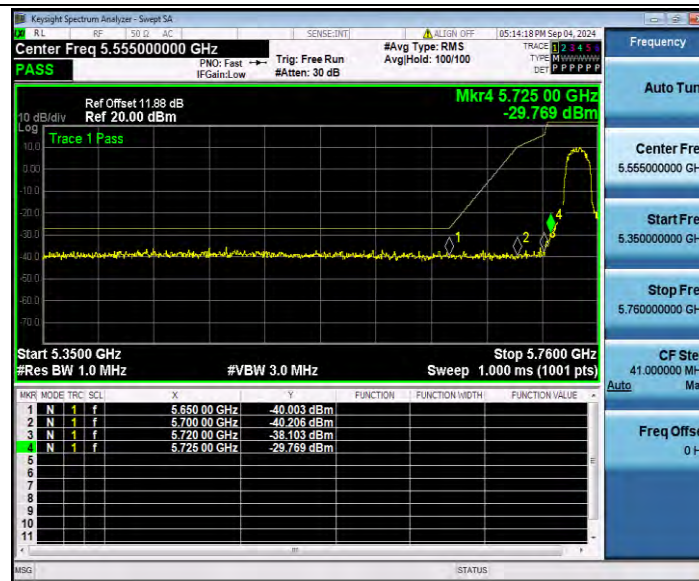
11AC40SIS O	Ant1	Low	5755	Peak	5650.000	-39.192	≤ -27.00	PASS
				Peak	5700.000	-37.03	≤ 10.00	PASS
				Peak	5720.000	-20.2	≤ 15.60	PASS
				Peak	5725.000	-19.92	≤ 27.00	PASS
		High	5795	Peak	5850.000	-34.152	≤ 27.00	PASS
				Peak	5855.000	-36.65	≤ 15.60	PASS
				Peak	5875.000	-36.65	≤ 10.00	PASS
				Peak	5925.000	-34.68	≤ -27.00	PASS

Note:

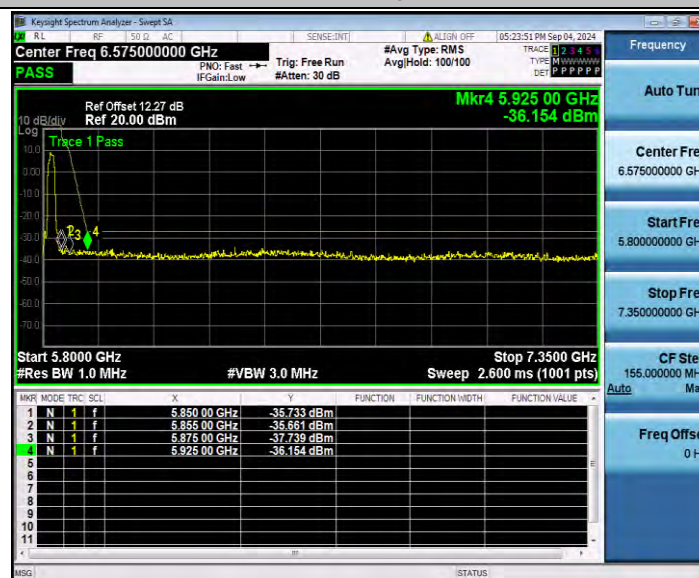
1. The Antenna Gain is compensated in the graph.
2. The Duty Cycle Factor and RBW Factor is compensated in the graph.
3. For transmitters operating in 5150-5350 GHz band and 5470-5725 GHz band: The limit in dBm for average detector is conversion from 54dBuV/m, according to 15.209(a). The limit in dBm for peak detector is 20dB above the limit of average detector in dBm.

Test Graphs

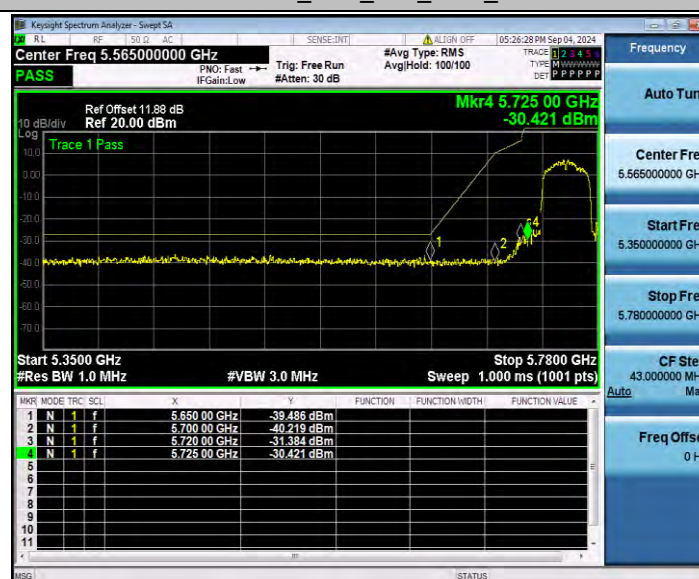




11N20SISO_Ant1_High_5825_Peak



11N40SISO_Ant1_Low_5755_Peak



11N40SISO_Ant1_High_5795_Peak



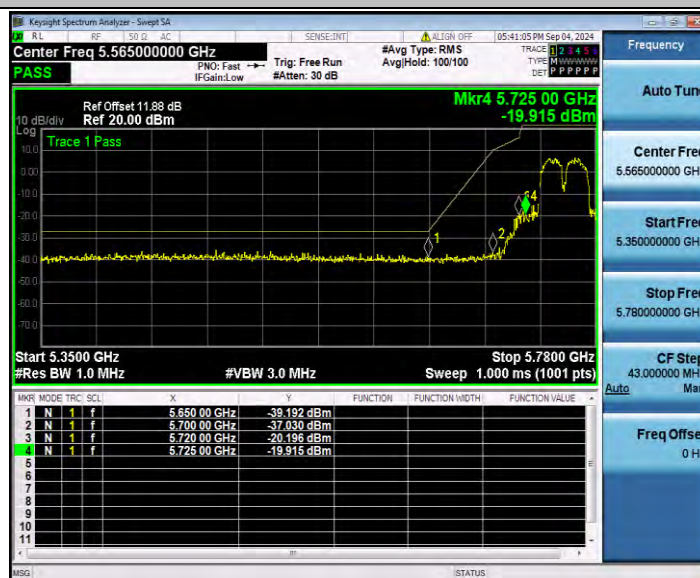
11AC20SISO_Ant1_Low_5745_Peak



11AC20SISO_Ant1_High_5825_Peak



11AC40SISO_Ant1_Low_5755_Peak



11AC40SISO_Ant1_High_5795_Peak

