

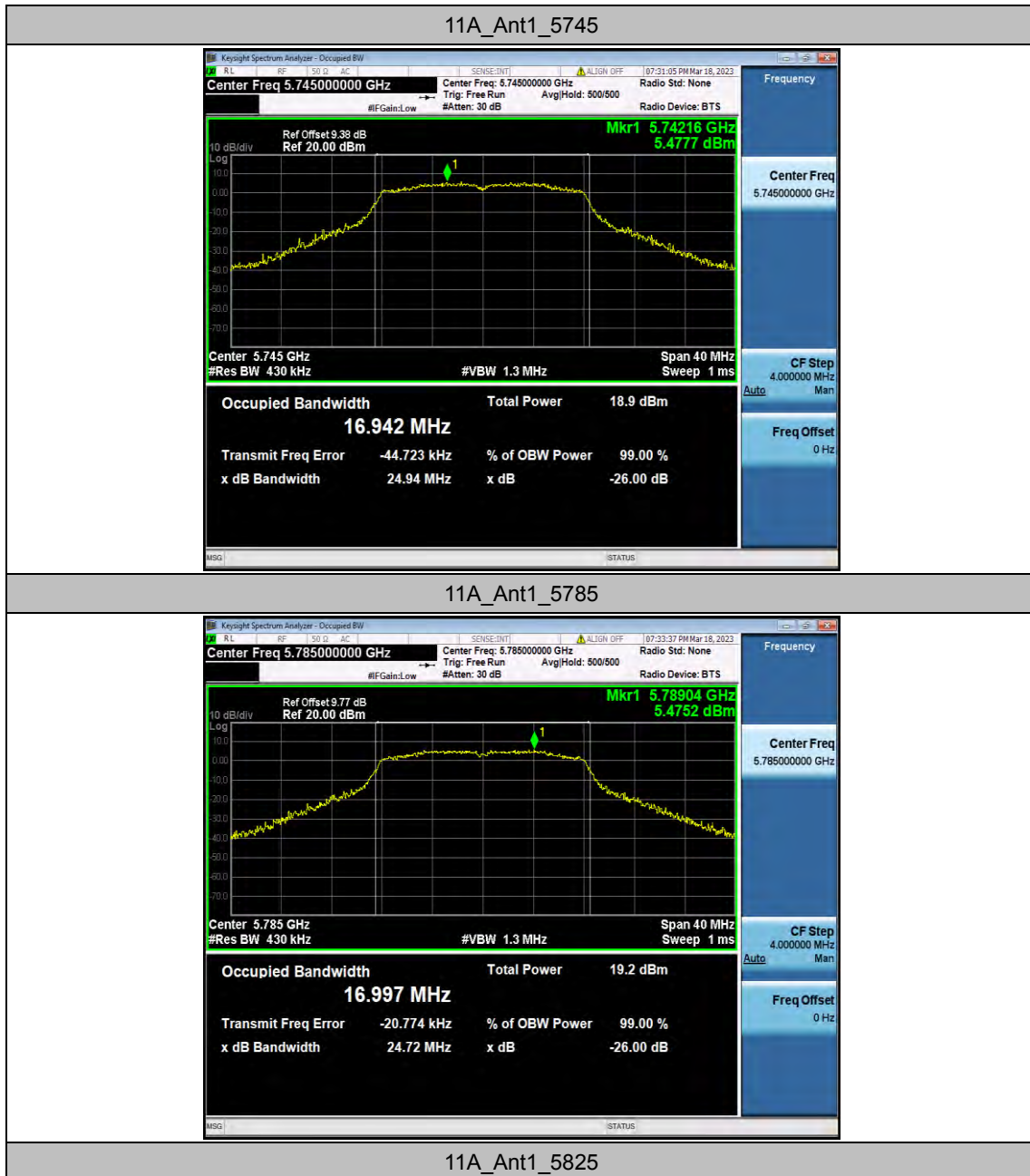
Case No. : <u>GTS20230224006-1-4</u>
Ambient Condition: <u>25</u> °C, <u>45</u> %RH, Atmos100.1Kpa,
Test Date: <u>2023.3.17</u> Test Engineer: <u>Jenny zeng</u>

Appendix E.1: Occupied channel bandwidth

Test Result

TestMode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.942	5736.484	5753.426	---	---
		5785	16.997	5776.481	5793.478	---	---
		5825	17.014	5816.425	5833.439	---	---
11N20SISO	Ant1	5745	18.012	5735.950	5753.962	---	---
		5785	17.998	5775.977	5793.975	---	---
		5825	18.202	5815.835	5834.037	---	---
11N40SISO	Ant1	5755	36.284	5736.866	5773.150	---	---
		5795	36.258	5776.852	5813.110	---	---
11AC20SISO	Ant1	5745	18.034	5735.972	5754.006	---	---
		5785	18.163	5775.914	5794.077	---	---
		5825	18.381	5815.768	5834.149	---	---
11AC40SISO	Ant1	5755	36.288	5736.838	5773.126	---	---
		5795	36.292	5776.833	5813.125	---	---
11AC80SISO	Ant1	5775	76.680	5736.528	5813.208	---	---

Test Graphs





11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



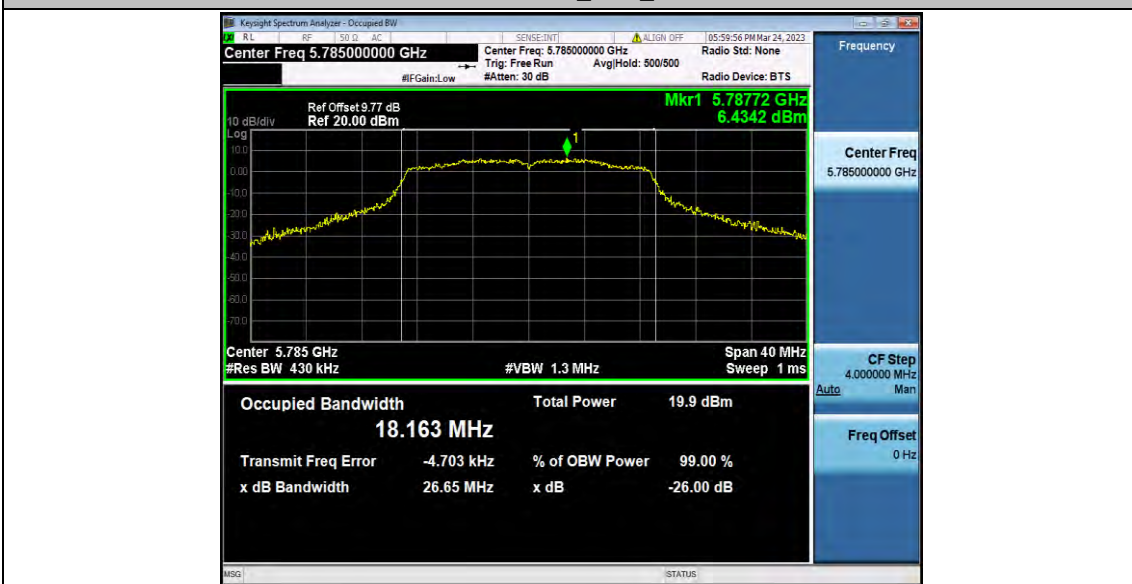
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



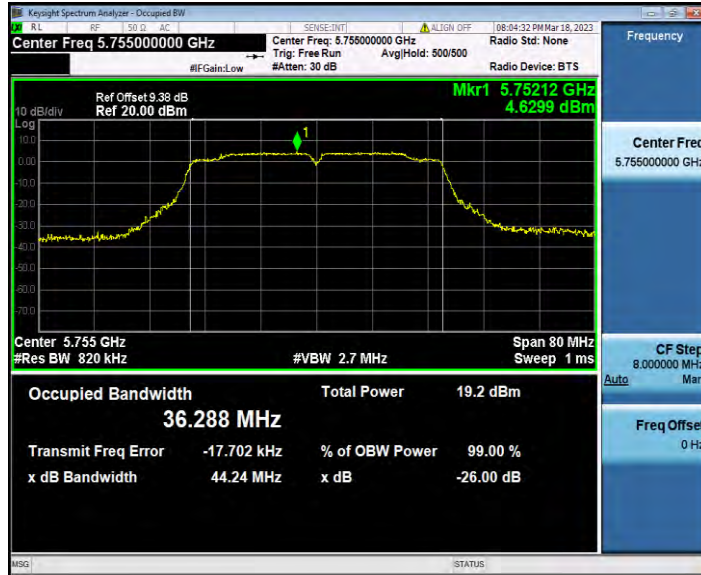
11AC20SISO_Ant1_5785



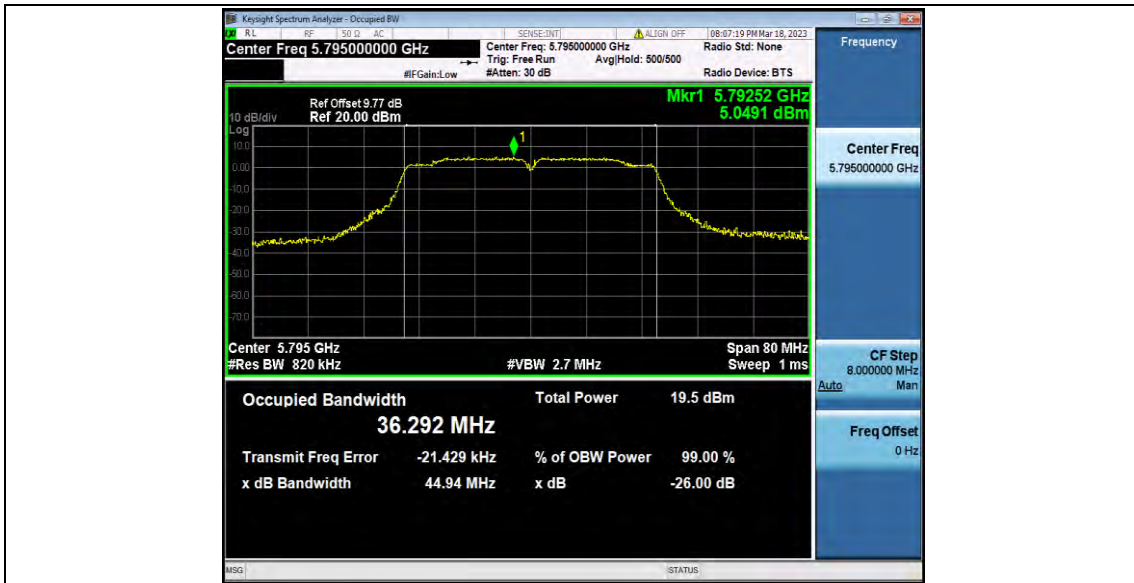
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775

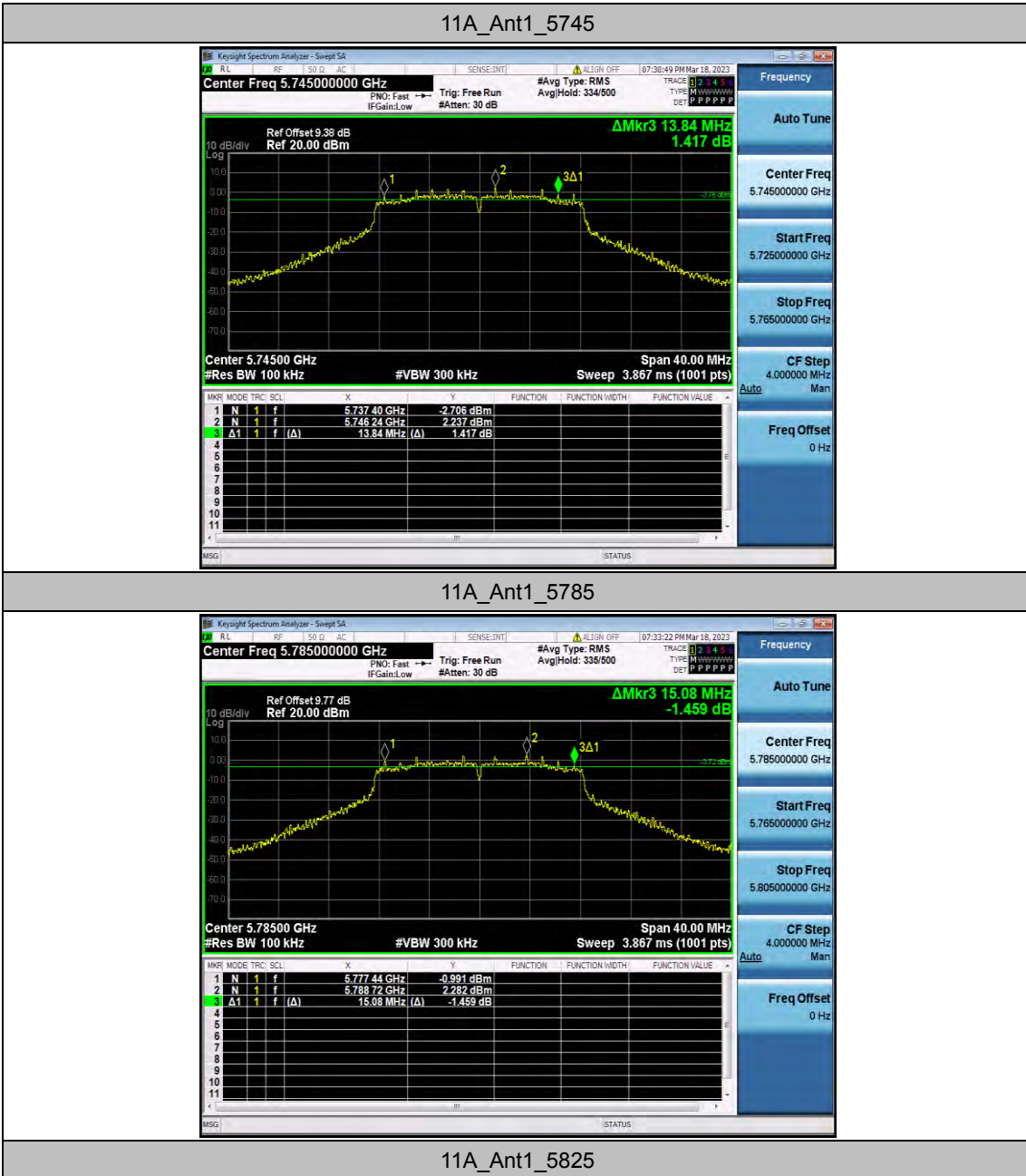


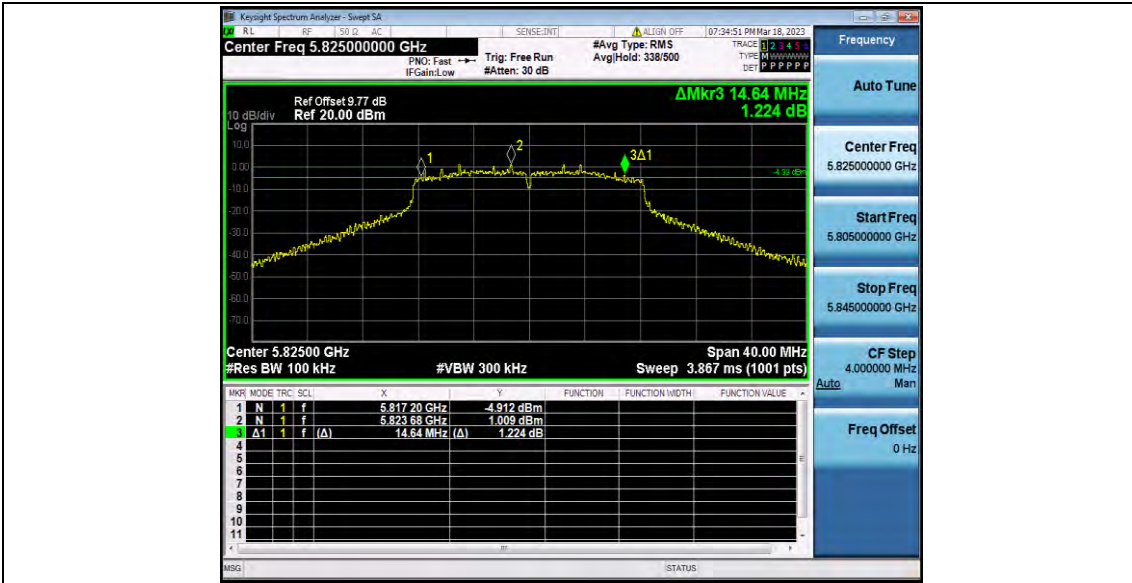
Appendix E.2: Min emission bandwidth

Test Result B4

TestMode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	13.840	5737.400	5751.240	0.5	PASS
		5785	15.080	5777.440	5792.520	0.5	PASS
		5825	14.640	5817.200	5831.840	0.5	PASS
11N20SISO	Ant1	5745	13.840	5738.640	5752.480	0.5	PASS
		5785	15.280	5777.440	5792.720	0.5	PASS
		5825	15.040	5817.480	5832.520	0.5	PASS
11N40SISO	Ant1	5755	35.120	5737.400	5772.520	0.5	PASS
		5795	35.120	5777.400	5812.520	0.5	PASS
11AC20SISO	Ant1	5745	15.120	5737.400	5752.520	0.5	PASS
		5785	15.120	5777.400	5792.520	0.5	PASS
		5825	15.160	5817.400	5832.560	0.5	PASS
11AC40SISO	Ant1	5755	35.040	5737.400	5772.440	0.5	PASS
		5795	35.120	5777.400	5812.520	0.5	PASS
11AC80SISO	Ant1	5775	75.200	5737.400	5812.600	0.5	PASS

Test Graphs B4





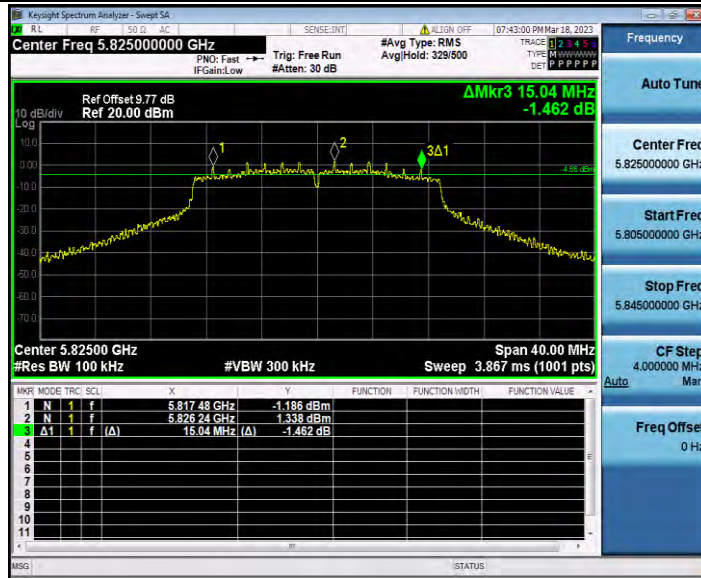
11N20SISO_Ant1_5745



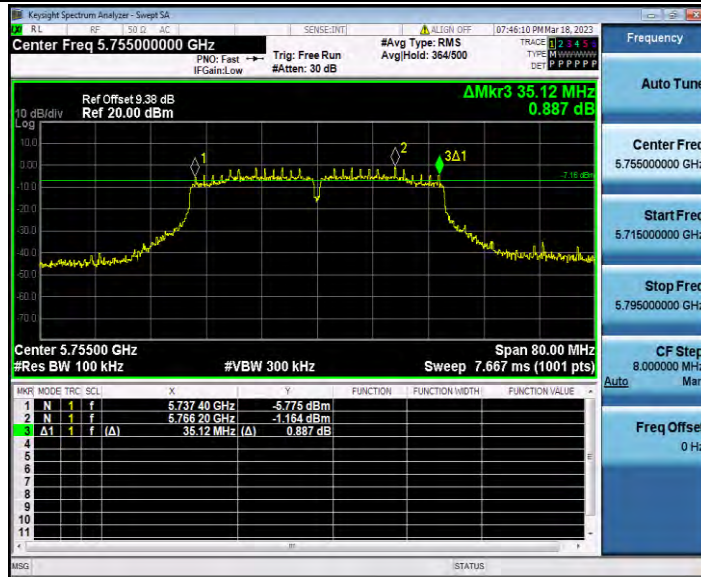
11N20SISO_Ant1_5785



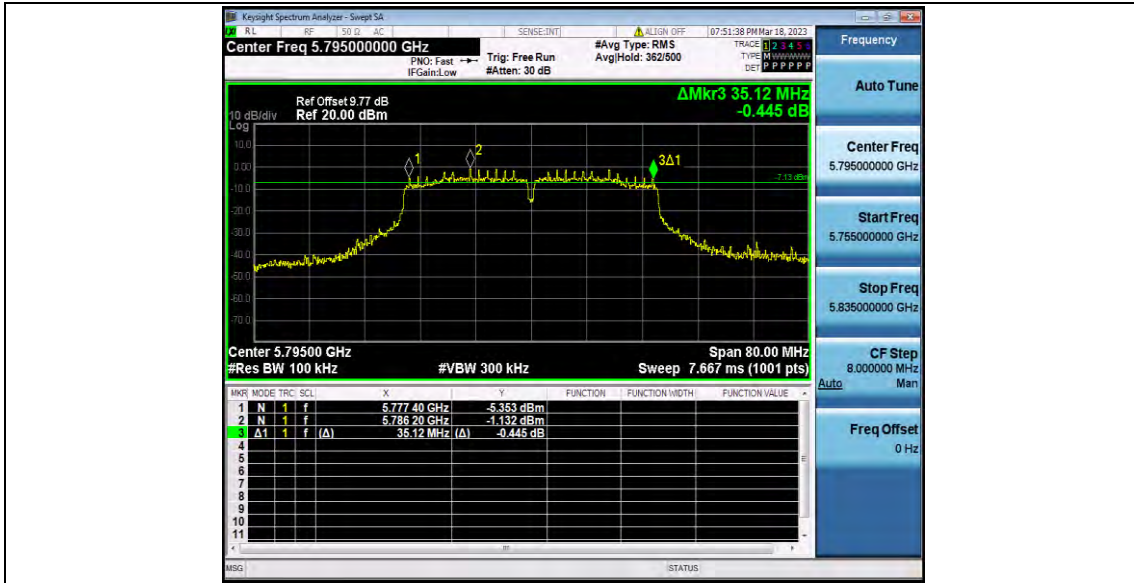
11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



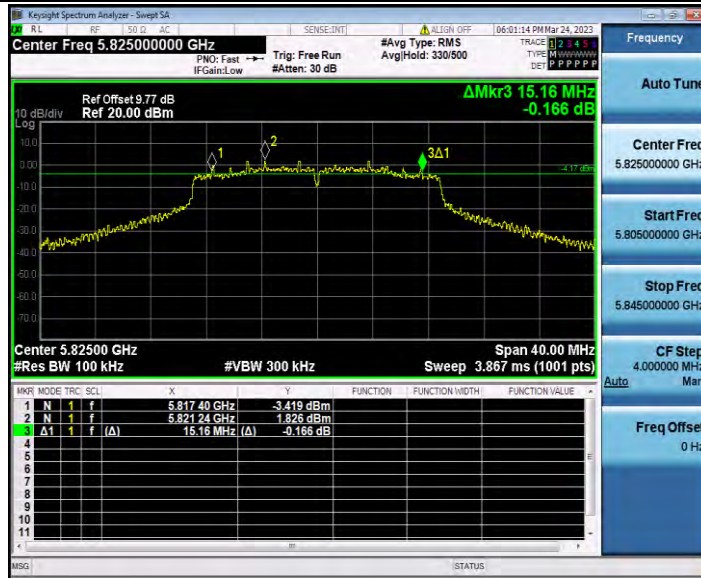
11AC20SISO_Ant1_5745



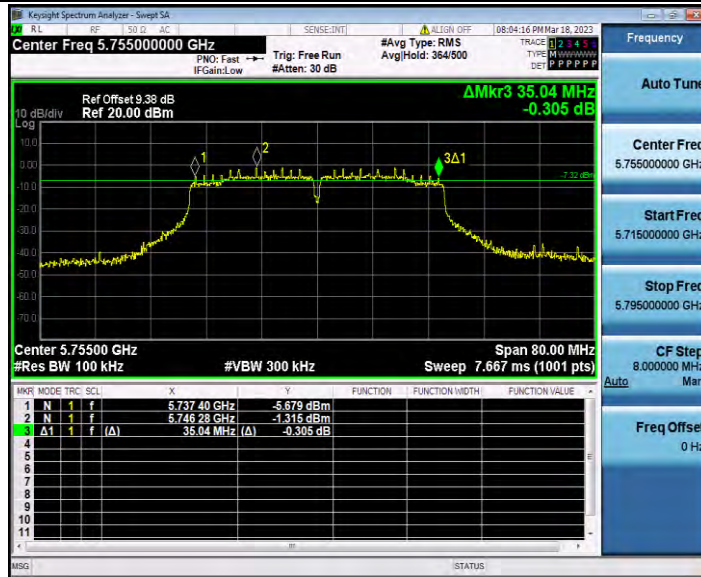
11AC20SISO_Ant1_5785



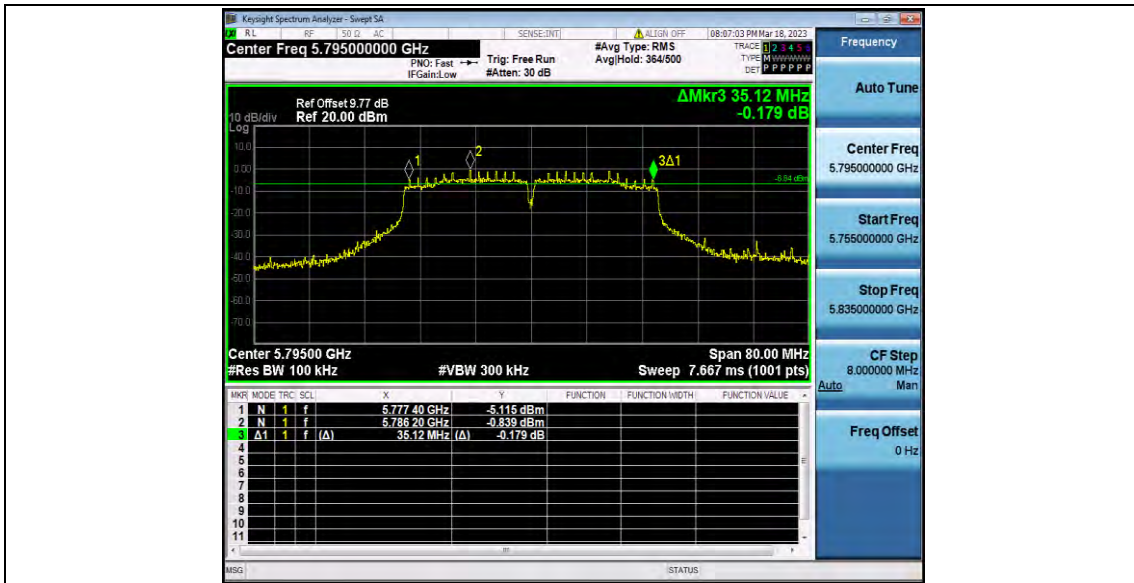
11AC20SISO_Ant1_5825



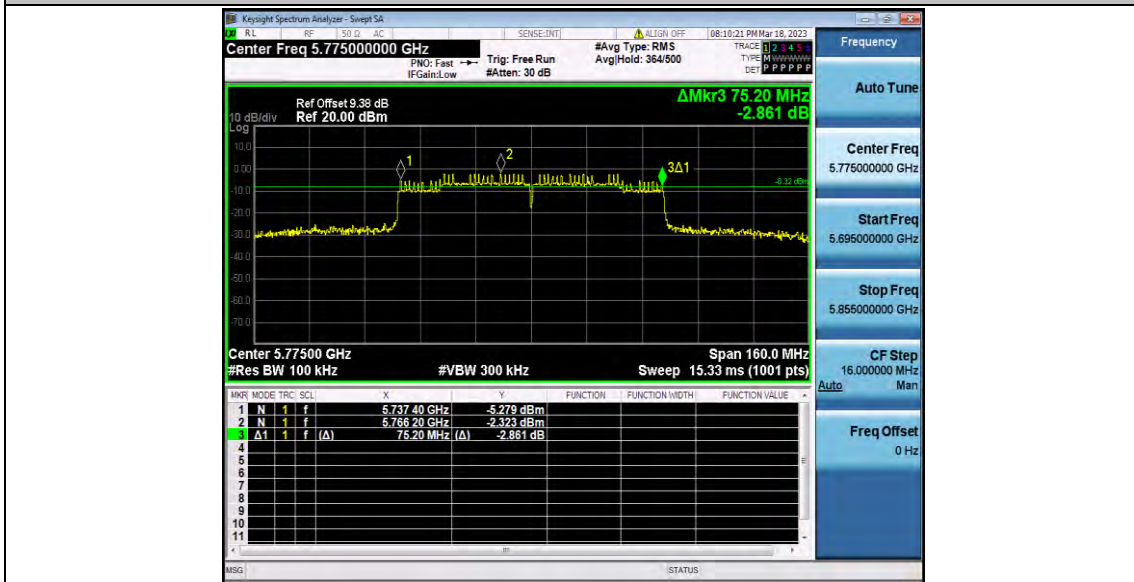
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775

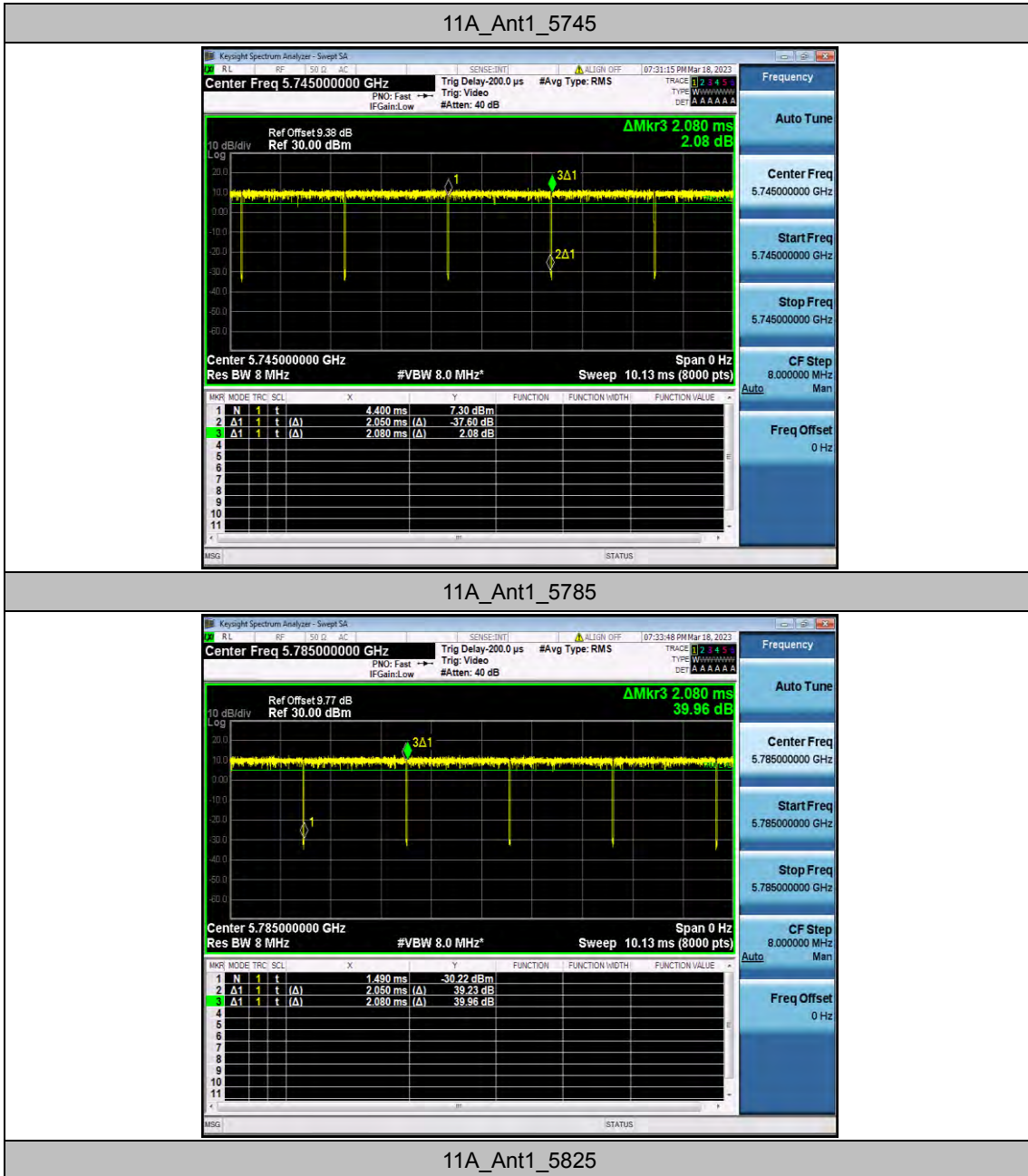


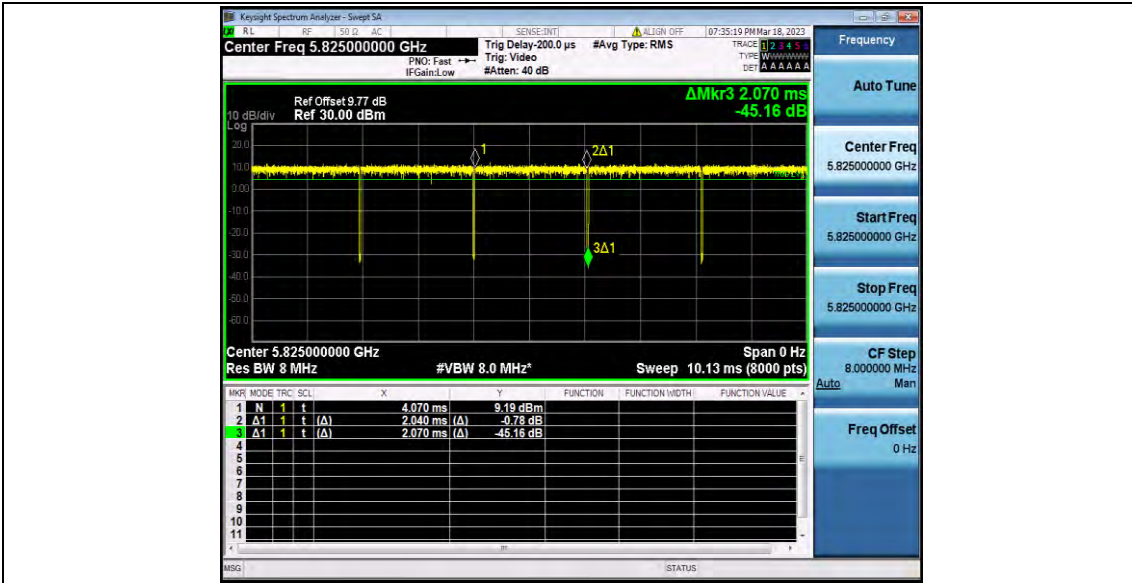
Appendix E.3: Duty Cycle

Test Result

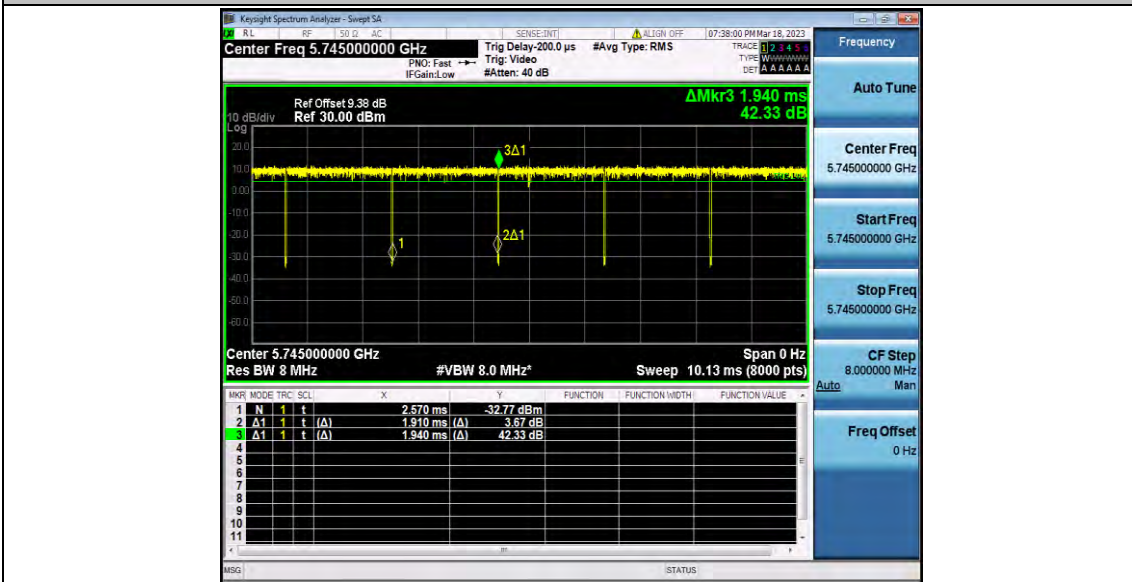
TestMode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5745	2.05	2.08	98.56
		5785	2.05	2.08	98.56
		5825	2.04	2.07	98.55
11N20SISO	Ant1	5745	1.91	1.94	98.45
		5785	1.91	1.93	98.96
		5825	1.91	1.94	98.45
11N40SISO	Ant1	5755	0.93	0.96	96.88
		5795	0.94	0.97	96.91
11AC20SISO	Ant1	5745	1.92	1.94	98.97
		5785	1.92	1.94	98.97
		5825	1.92	1.95	98.46
11AC40SISO	Ant1	5755	0.94	0.97	96.91
		5795	0.95	0.97	97.94
11AC80SISO	Ant1	5775	0.44	0.47	93.62

Test Graphs

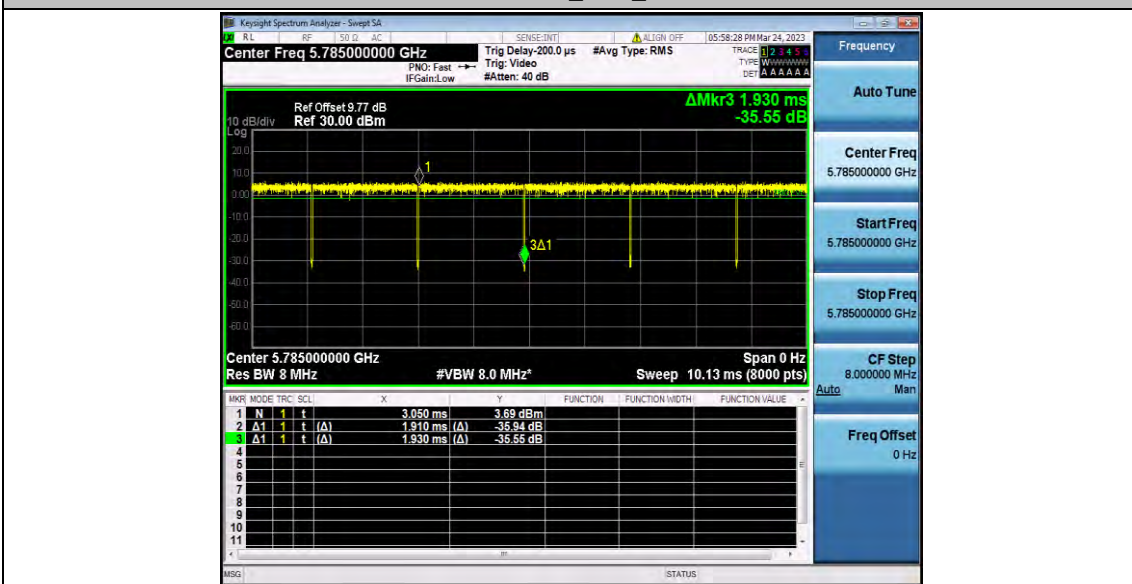




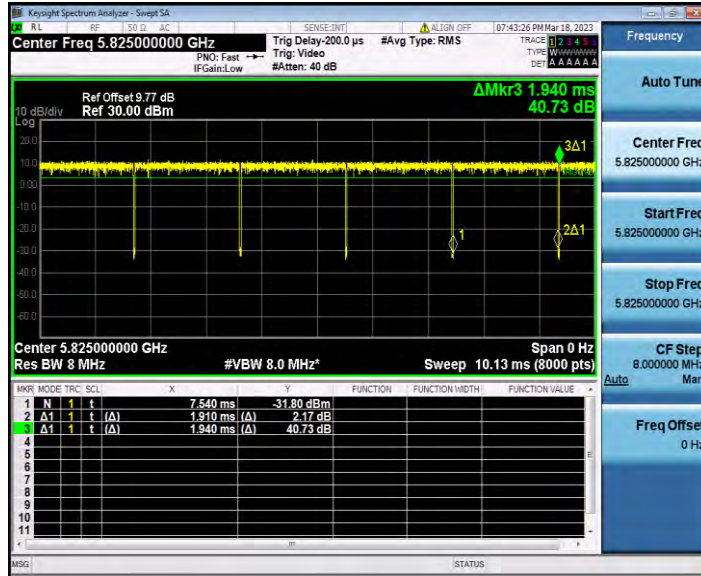
11N20SISO_Ant1_5745



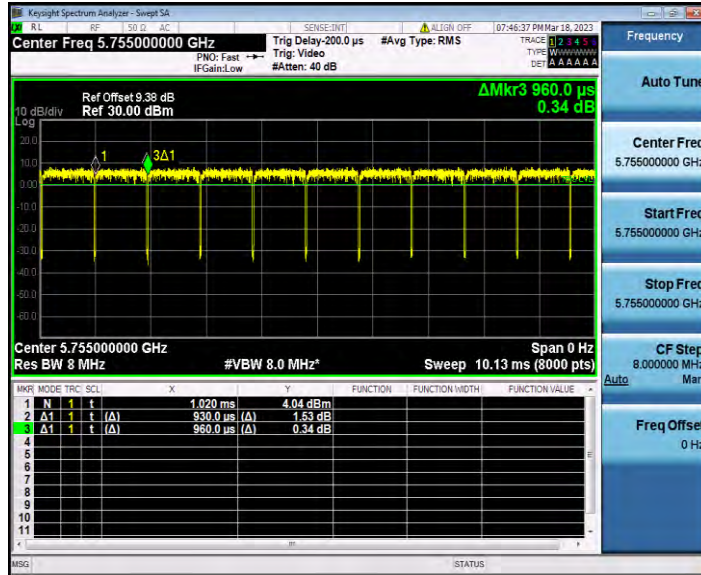
11N20SISO_Ant1_5785



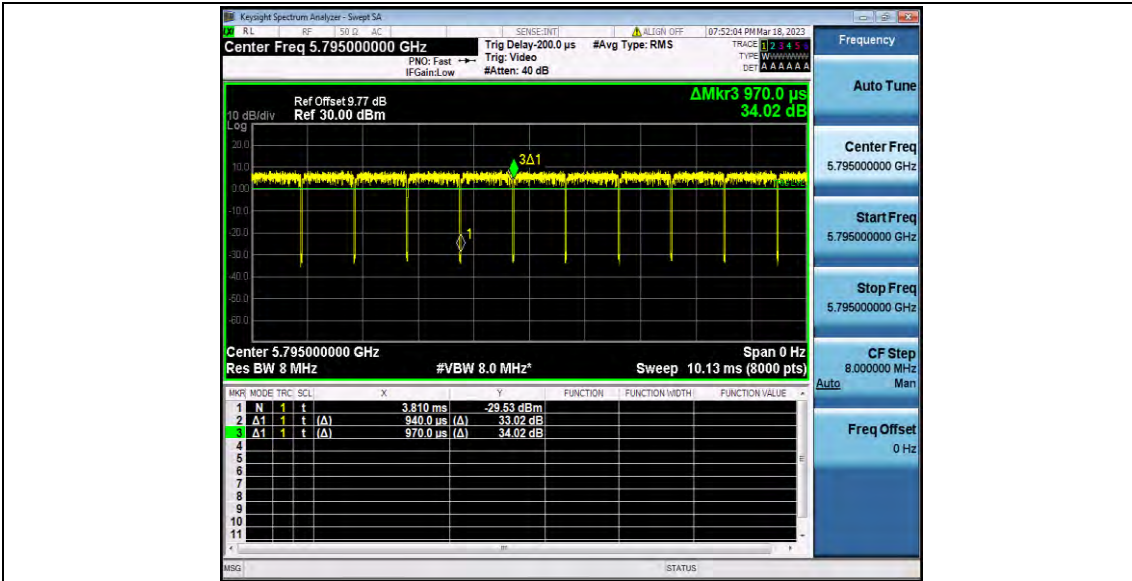
11N20SISO_Ant1_5825



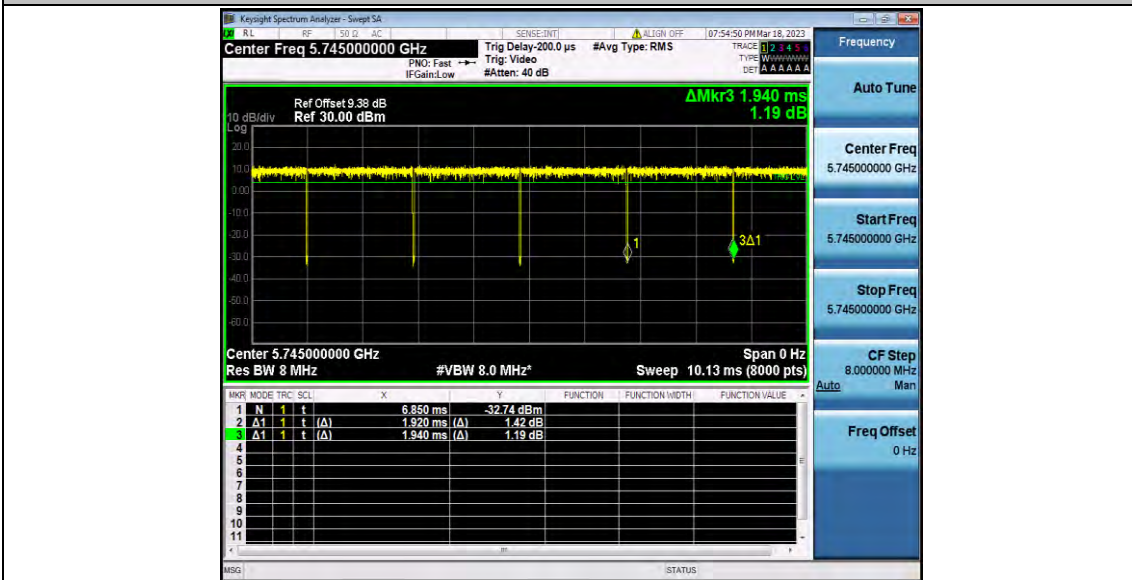
11N40SISO_Ant1_5755



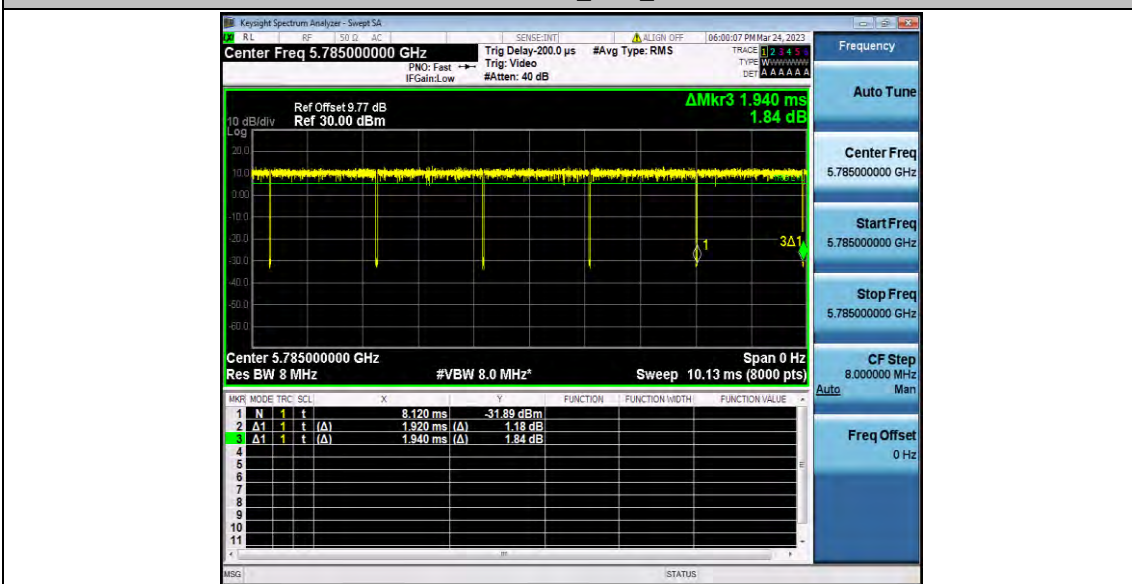
11N40SISO_Ant1_5795



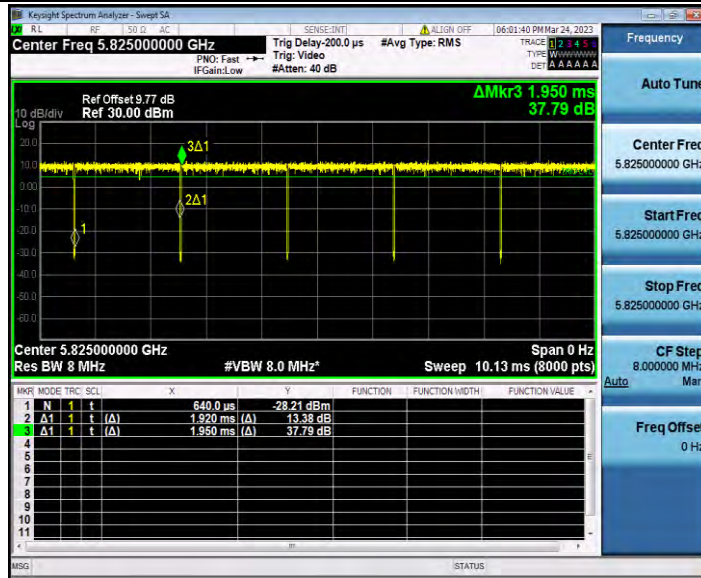
11AC20SISO_Ant1_5745



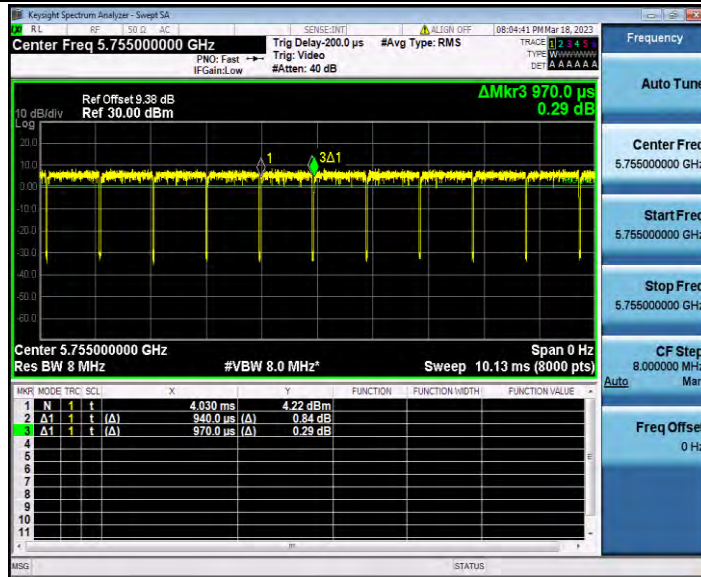
11AC20SISO_Ant1_5785



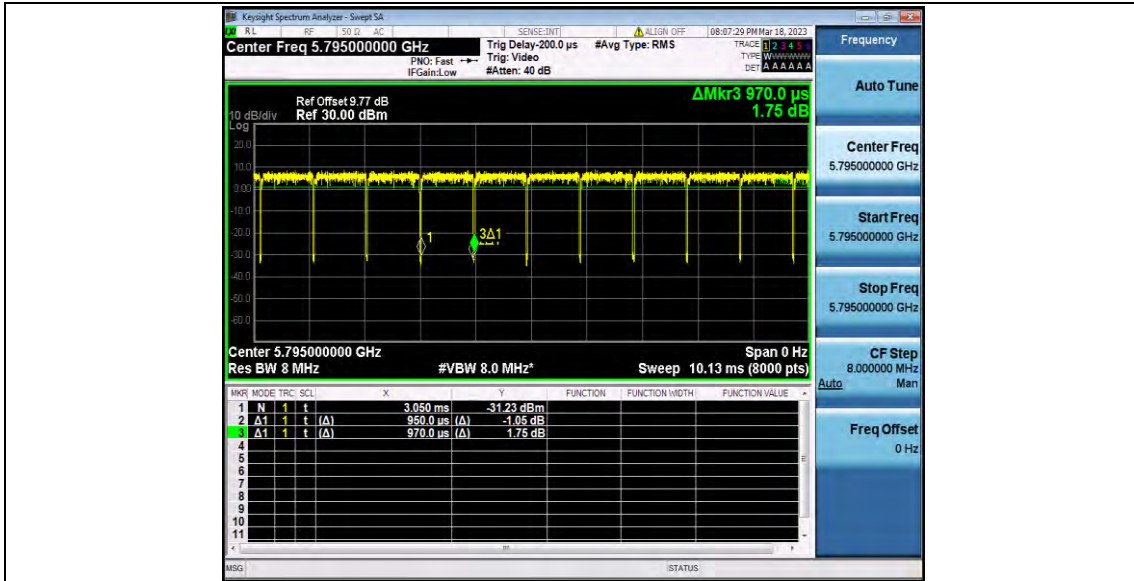
11AC20SISO_Ant1_5825



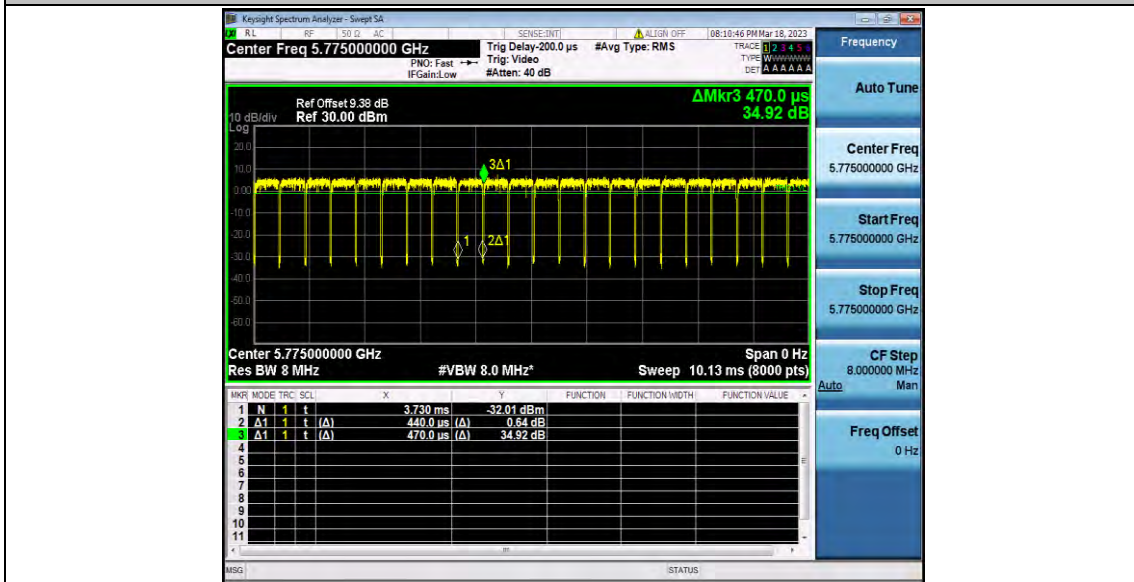
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775



Appendix E.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	12.02	98.56	0.06	12.08	≤30.00	PASS
		5785	12.43	98.56	0.06	12.49	≤30.00	PASS
		5825	11.61	98.55	0.06	11.67	≤30.00	PASS
11N20SISO	Ant1	5745	11.92	98.45	0.07	11.99	≤30.00	PASS
		5785	6.29	98.96	0.05	6.34	≤30.00	PASS
		5825	11.45	98.45	0.07	11.52	≤30.00	PASS
11N40SISO	Ant1	5755	11.62	96.88	0.14	11.76	≤30.00	PASS
		5795	11.94	96.91	0.14	12.08	≤30.00	PASS
11AC20SIS O	Ant1	5745	11.92	98.97	0.04	11.96	≤30.00	PASS
		5785	12.94	98.97	0.04	12.98	≤30.00	PASS
		5825	12.22	98.46	0.07	12.29	≤30.00	PASS
11AC40SIS O	Ant1	5755	11.58	96.91	0.14	11.72	≤30.00	PASS
		5795	11.89	97.94	0.09	11.98	≤30.00	PASS
11AC80SIS O	Ant1	5775	13.41	93.62	0.29	13.70	≤30.00	PASS

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

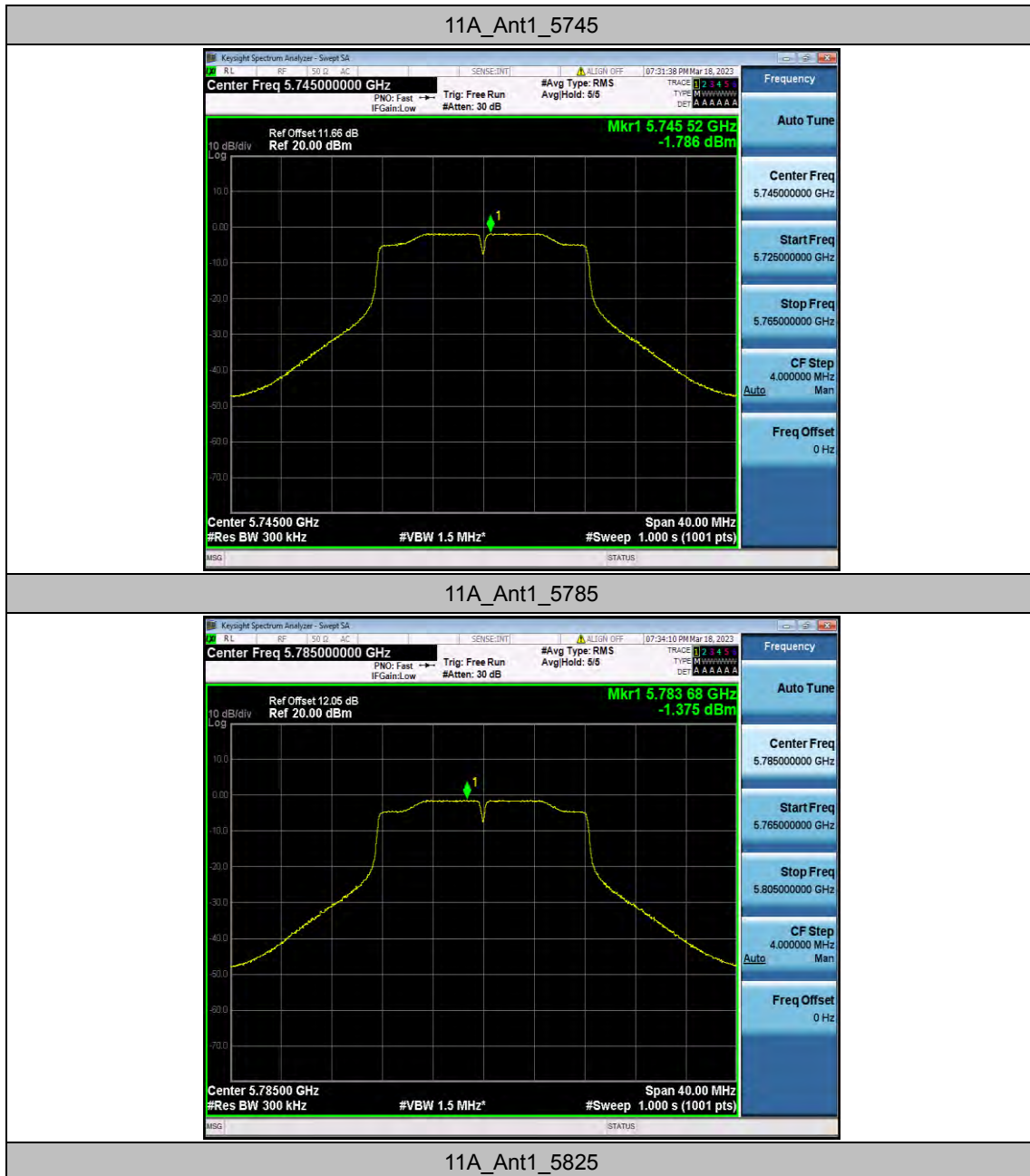
Appendix E.5: Maximum power spectral density

Test Result

TestMode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-1.79	≤30.00	PASS
		5785	-1.38	≤30.00	PASS
		5825	-2.12	≤30.00	PASS
11N20SISO	Ant1	5745	-2.04	≤30.00	PASS
		5785	-7.68	≤30.00	PASS
		5825	-2.09	≤30.00	PASS
11N40SISO	Ant1	5755	-5.48	≤30.00	PASS
		5795	-4.64	≤30.00	PASS
11AC20SISO	Ant1	5745	-2.11	≤30.00	PASS
		5785	-1.1	≤30.00	PASS
		5825	-1.51	≤30.00	PASS
11AC40SISO	Ant1	5755	-5.24	≤30.00	PASS
		5795	-4.99	≤30.00	PASS
11AC80SISO	Ant1	5775	-6.45	≤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





11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



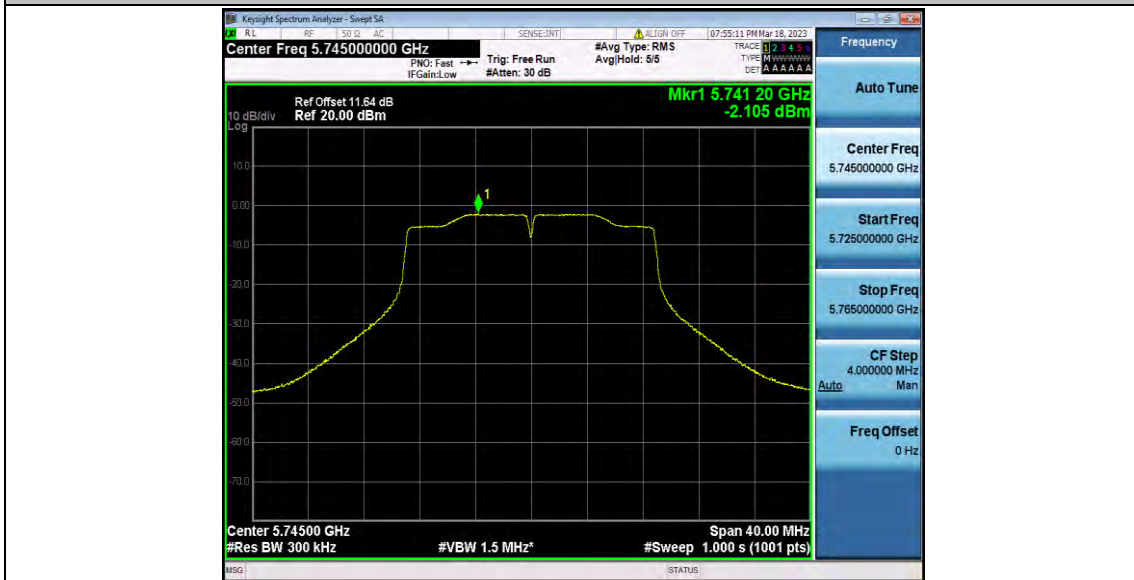
11N40SISO_Ant1_5755



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	Frequency[MHz]	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-37.75	≤5.38	PASS
				5700~5720	-36.53	≤13.86	PASS
				5720~5725	-34.28	≤25.52	PASS
				5760~5650	-39.38	≤-27	PASS
		High	5825	5850~5855	-37.79	≤20.41	PASS
				5855~5875	-37.86	≤13.95	PASS
				5875~5925	-38.41	≤-5.38	PASS
5925~5935	-38.58	≤-27	PASS				
11N20SI SO	Ant1	Low	5745	5650~5700	-37.76	≤4.79	PASS
				5700~5720	-35.61	≤15.47	PASS
				5720~5725	-33.94	≤25.52	PASS
				5760~5650	-38.5	≤-27	PASS
		High	5825	5850~5855	-37.97	≤16.10	PASS
				5855~5875	-37.84	≤13.01	PASS
				5875~5925	-37.11	≤-19.36	PASS
5925~5935	-38.75	≤-27	PASS				
11N40SI SO	Ant1	Low	5755	5650~5700	-36.07	≤-0.53	PASS
				5700~5720	-33.56	≤15.16	PASS
				5720~5725	-33.76	≤26.51	PASS
				5780~5650	-39.37	≤-27	PASS
		High	5795	5850~5855	-38.05	≤17.16	PASS
				5855~5875	-37.47	≤13.78	PASS
				5875~5925	-37.78	≤-4.33	PASS
5925~5935	-39.14	≤-27	PASS				
11AC20S ISO	Ant1	Low	5745	5650~5700	-37.21	≤-14.79	PASS
				5700~5720	-35.79	≤14.24	PASS
				5720~5725	-34.01	≤23.94	PASS
				5760~5650	-39.28	≤-27	PASS
		High	5825	5850~5855	-32.57	≤17.33	PASS
				5855~5875	-34.24	≤10.14	PASS
				5875~5925	-37.27	≤-3.78	PASS
5925~5935	-37.89	≤-27	PASS				
11AC40S ISO	Ant1	Low	5755	5650~5700	-35.77	≤9.66	PASS
				5700~5720	-34.13	≤13.73	PASS
				5720~5725	-33.21	≤25.59	PASS

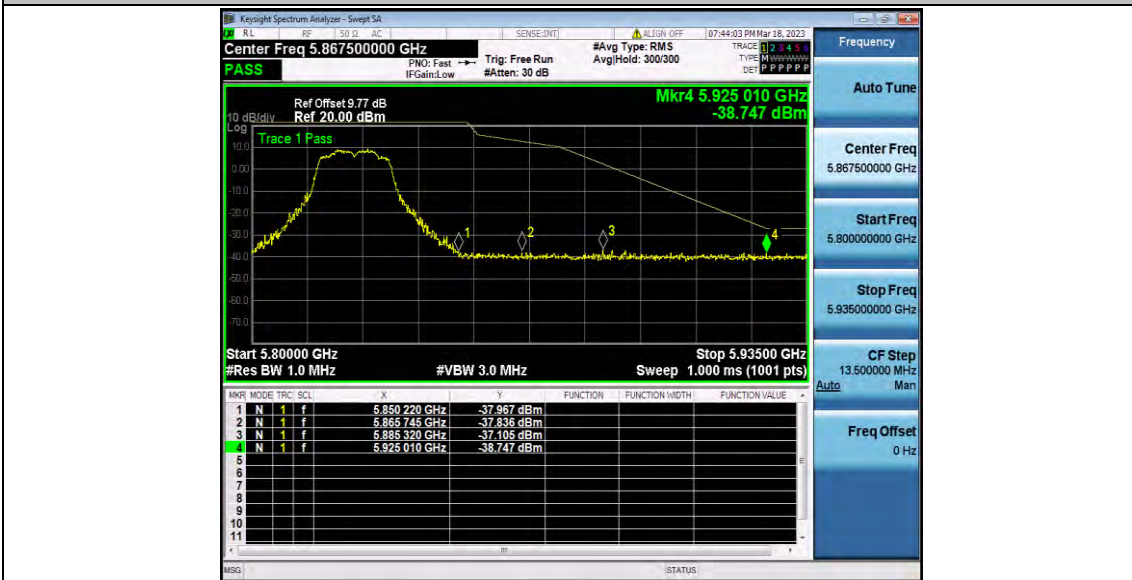
				5780~5650	-39.53	≤ -27	PASS
		High	5795	5850~5855	-38.35	≤ 25.81	PASS
				5855~5875	-37.64	≤ 10.96	PASS
				5875~5925	-37	≤ -24.97	PASS
				5925~5935	-38.22	≤ -27	PASS
11AC80S ISO	Ant1	Low	5775	5650~5700	-19.47	≤ 3.14	PASS
				5700~5720	-16.57	≤ 15.13	PASS
				5720~5725	-15.53	≤ 26.25	PASS
				5800~5650	-31.03	≤ -27	PASS
		High	5775	5850~5855	-18.86	≤ 22.54	PASS
				5855~5875	-20.68	≤ 11.01	PASS
				5875~5925	-28.62	≤ -26.13	PASS
				5925~5935	-37.02	≤ -27	PASS

Test Graphs B4





11N20SISO_Ant1_High_5825



11N40SISO_Ant1_Low_5755



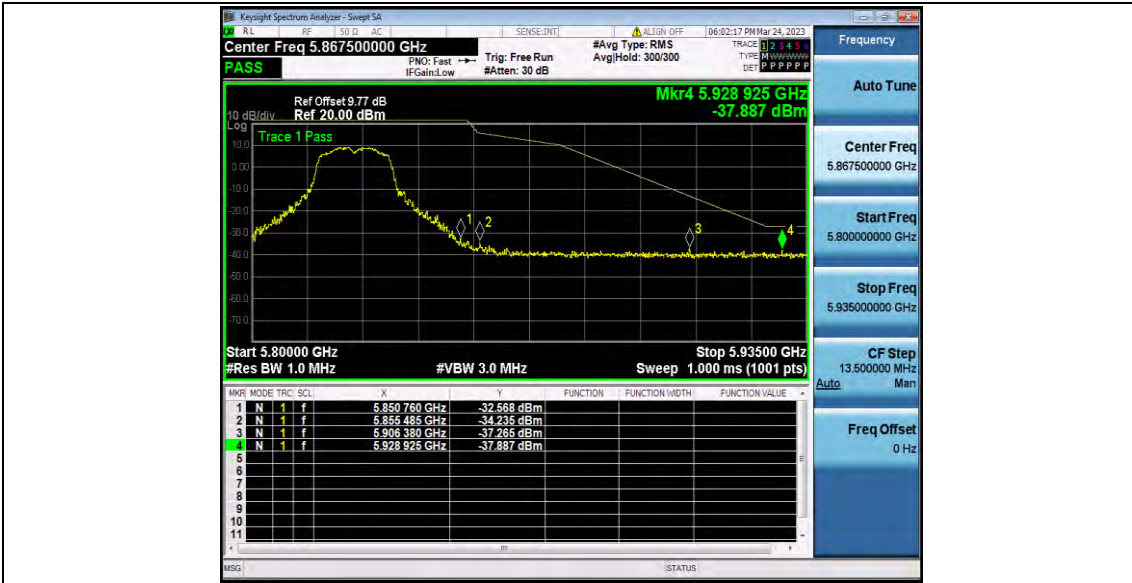
11N40SISO_Ant1_High_5795



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	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	30~5650	2681.52	-40.85	≤-27	PASS
			5925~40000	25239.54	-33.23	≤-27	PASS
		5785	30~5650	3172.89	-40.45	≤-27	PASS
			5925~40000	24759.03	-31.93	≤-27	PASS
		5825	30~5650	5386.23	-40.49	≤-27	PASS
			5925~40000	23547.21	-32.19	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	5419.39	-40.18	≤-27	PASS
			5925~40000	24263.06	-31.93	≤-27	PASS
		5785	30~5650	5247.42	-40.2	≤-27	PASS
			5925~40000	24404.97	-31.55	≤-27	PASS
		5825	30~5650	2665.97	-39.96	≤-27	PASS
			5925~40000	23518.41	-32.74	≤-27	PASS
11N40SISO	Ant1	5755	30~5650	5598.67	-40.71	≤-27	PASS
			5925~40000	24280.62	-32.5	≤-27	PASS
		5795	30~5650	2817.33	-40.32	≤-27	PASS
			5925~40000	24219.51	-32.22	≤-27	PASS
11AC20SISO	Ant1	5745	30~5650	5614.97	-40.55	≤-27	PASS
			5925~40000	26447.84	-32.96	≤-27	PASS
		5785	30~5650	5477.84	-39.03	≤-27	PASS
			5925~40000	26018.61	-32.09	≤-27	PASS
		5825	30~5650	5561.58	-40.49	≤-27	PASS
			5925~40000	26087.45	-31.44	≤-27	PASS
11AC40SISO	Ant1	5755	30~5650	4994.15	-40.18	≤-27	PASS
			5925~40000	23545.81	-31.33	≤-27	PASS
		5795	30~5650	2669.53	-40.37	≤-27	PASS
			5925~40000	23370.18	-32.28	≤-27	PASS
11AC80SISO	Ant1	5775	30~5650	5644.75	-36.7	≤-27	PASS
			5925~40000	26694.41	-32.44	≤-27	PASS

Test Graphs

11A_Ant1_5745_30~5650



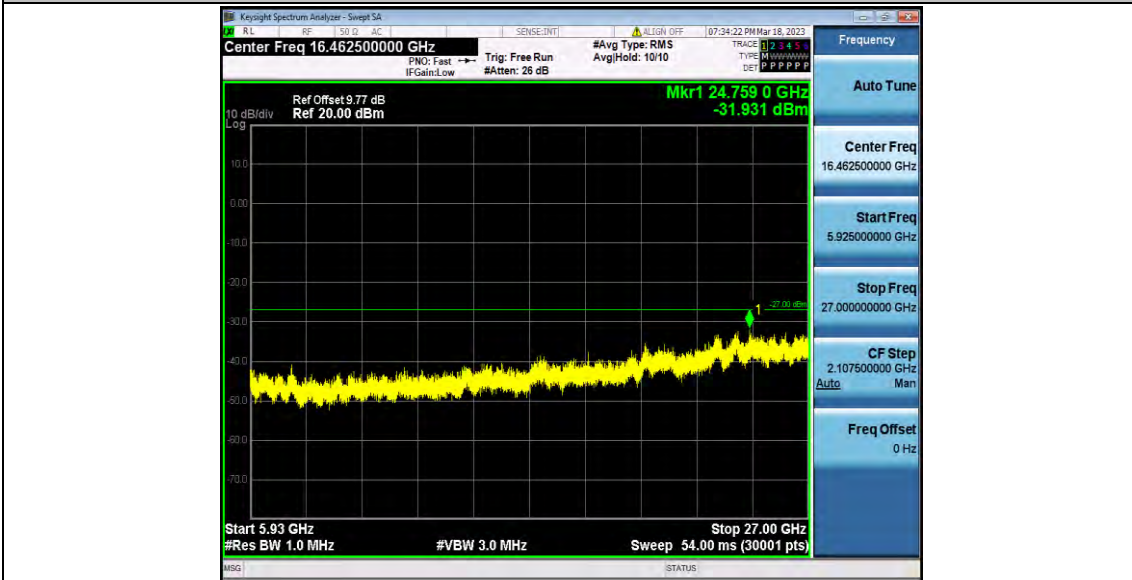
11A_Ant1_5745_5925~40000



11A_Ant1_5785_30~5650



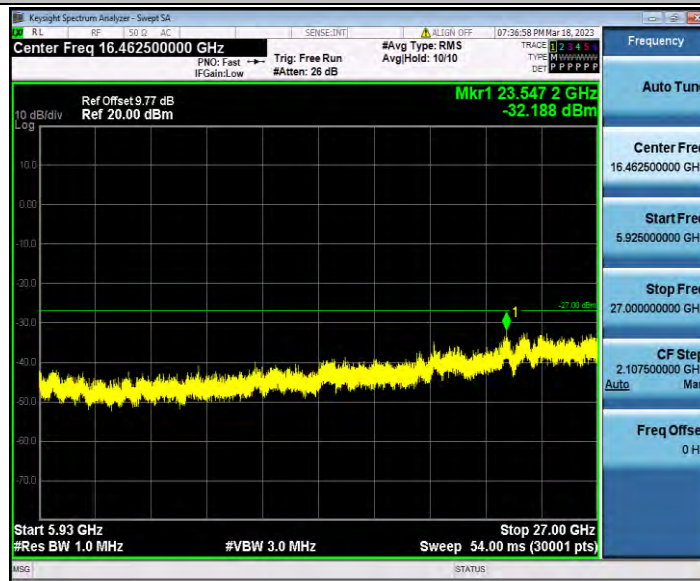
11A_Ant1_5785_5925~40000



11A_Ant1_5825_30~5650



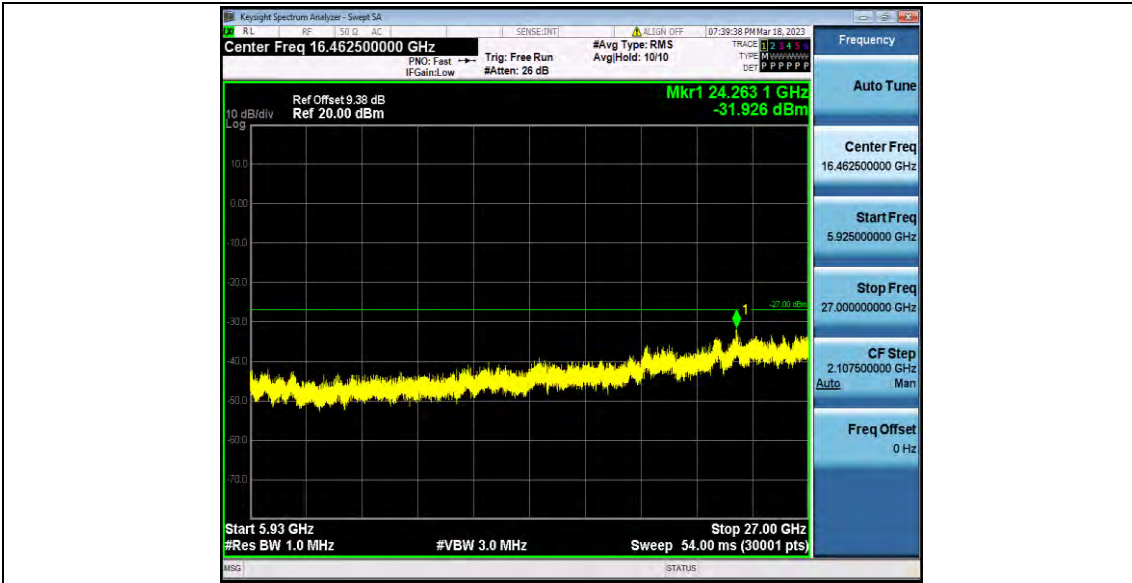
11A_Ant1_5825_5925~40000



11N20SISO_Ant1_5745_30~5650



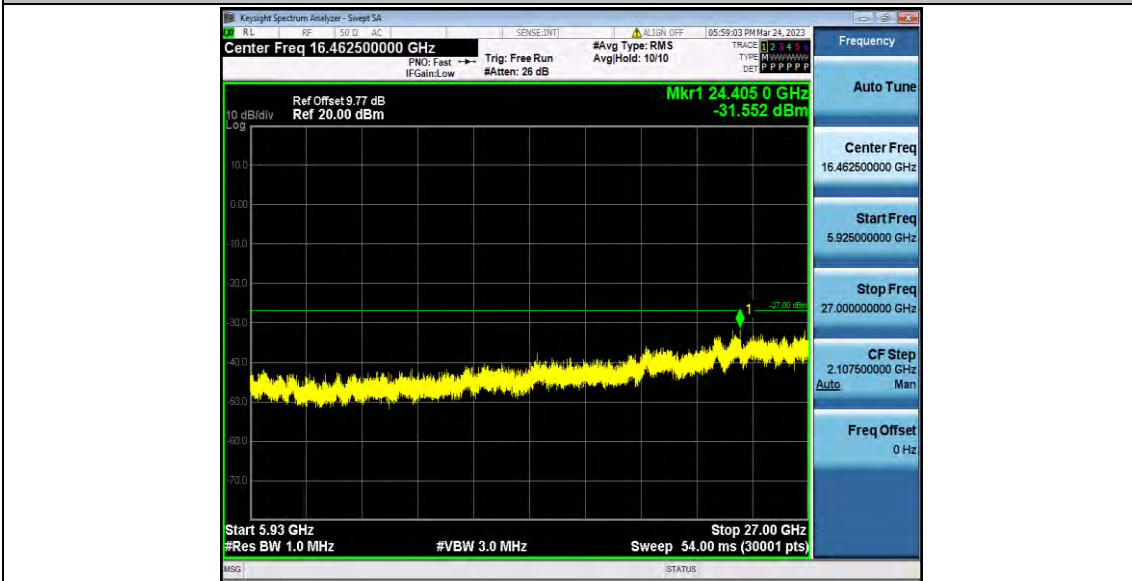
11N20SISO_Ant1_5745_5925~40000



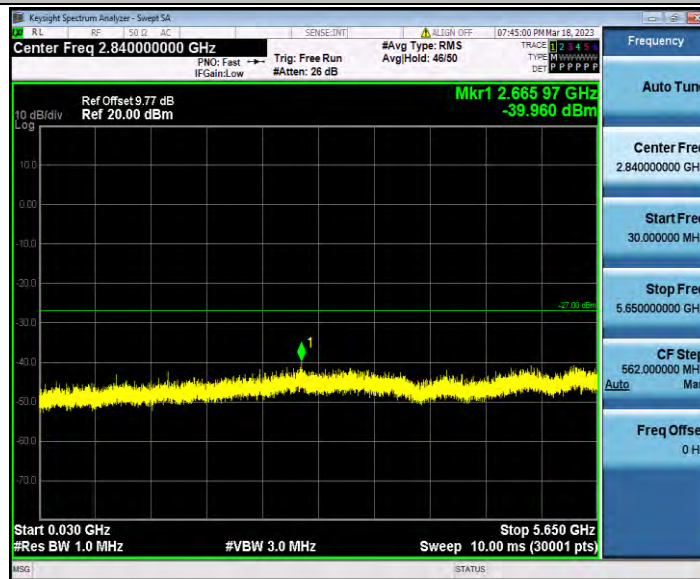
11N20SISO_Ant1_5785_30~5650



11N20SISO_Ant1_5785_5925~40000



11N20SISO_Ant1_5825_30~5650



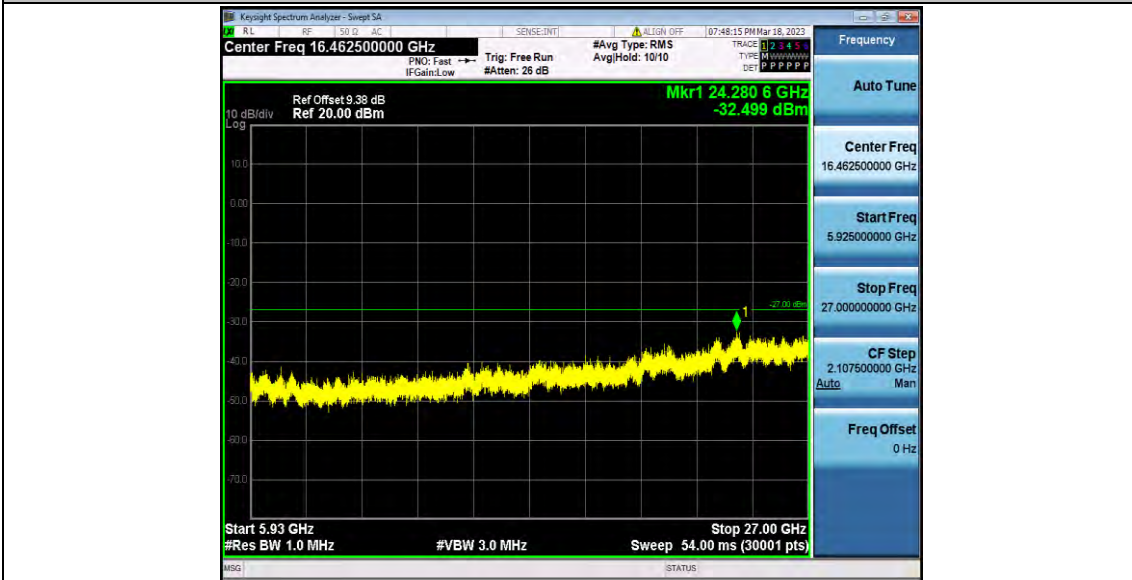
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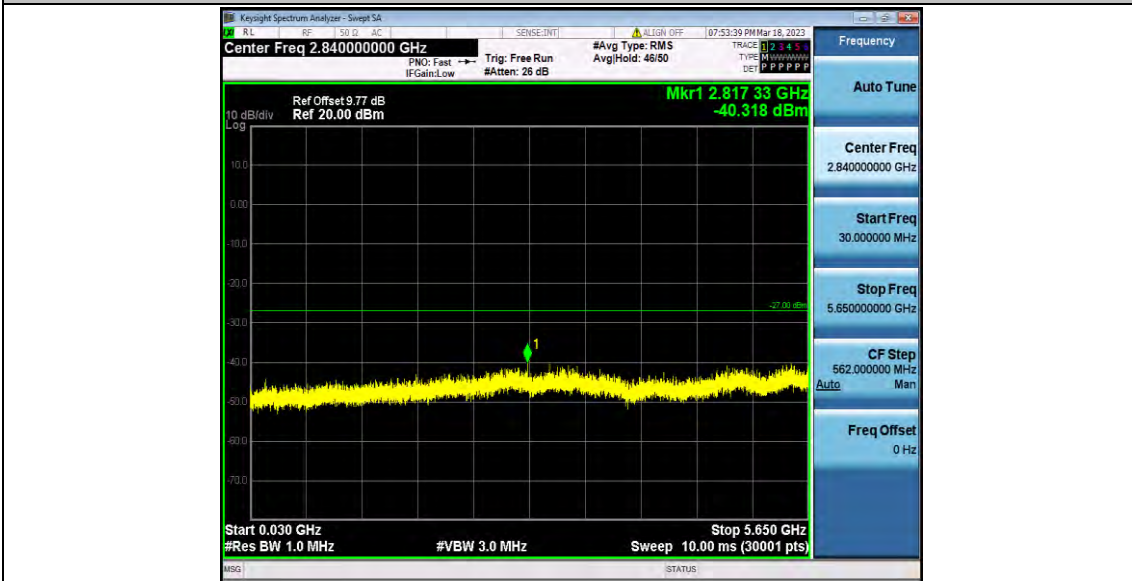
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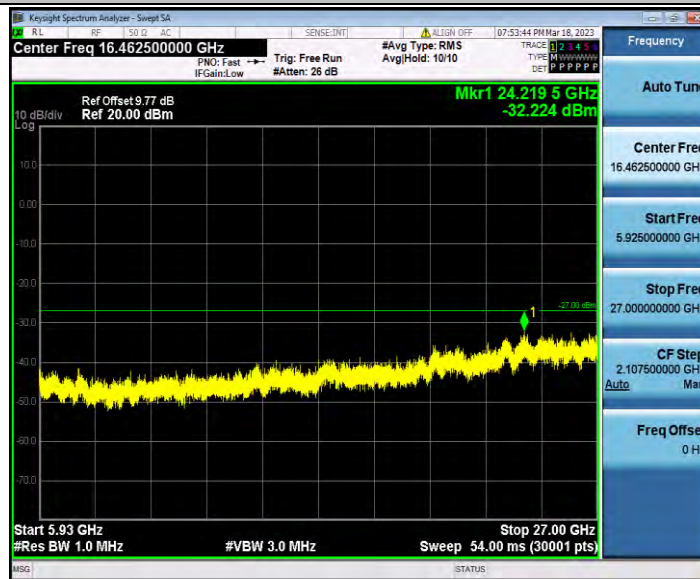
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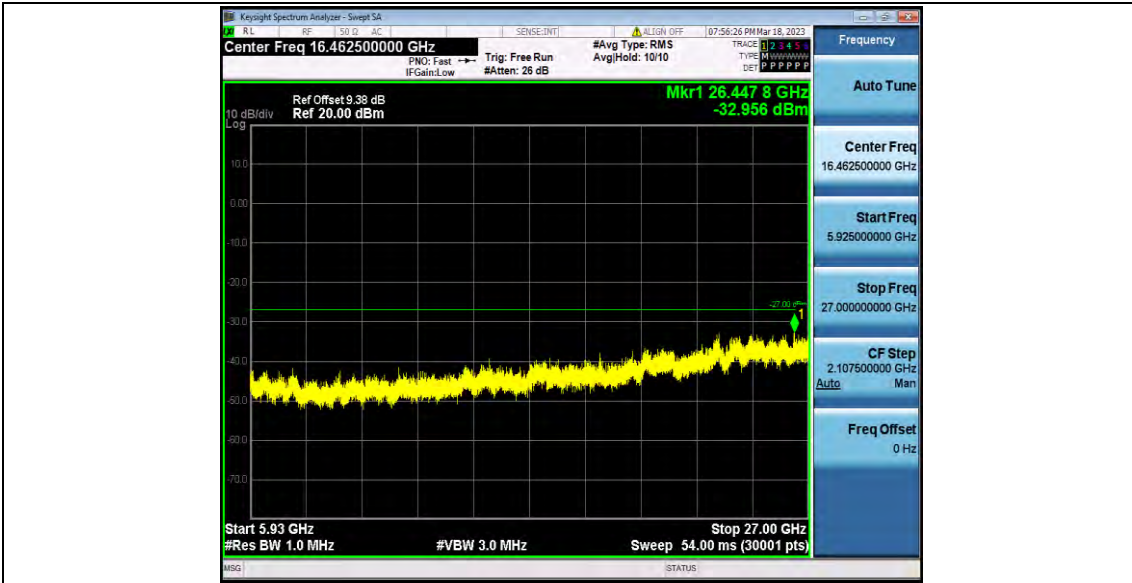
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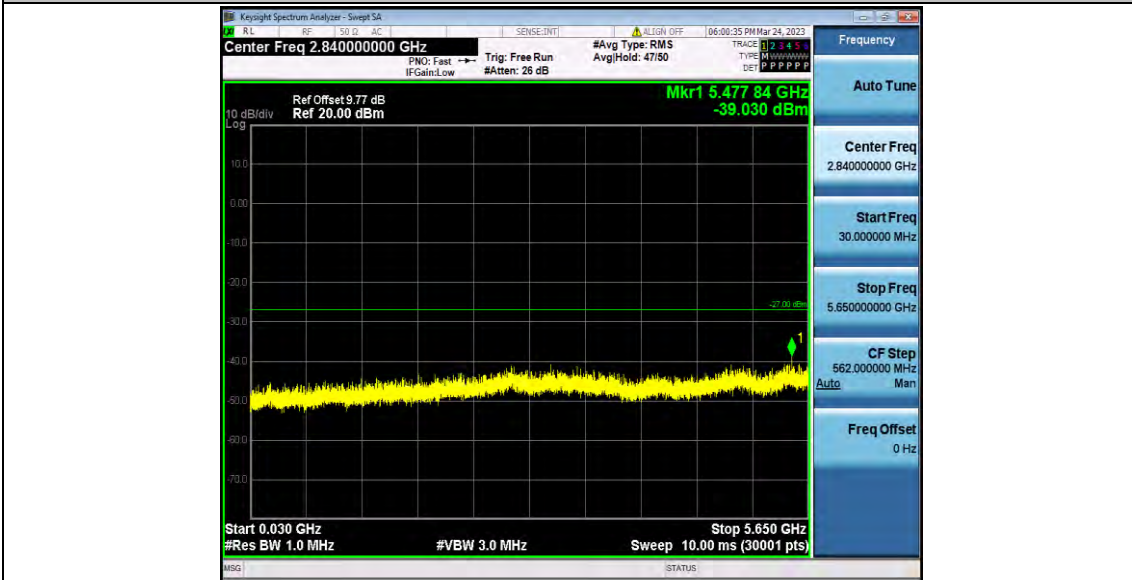
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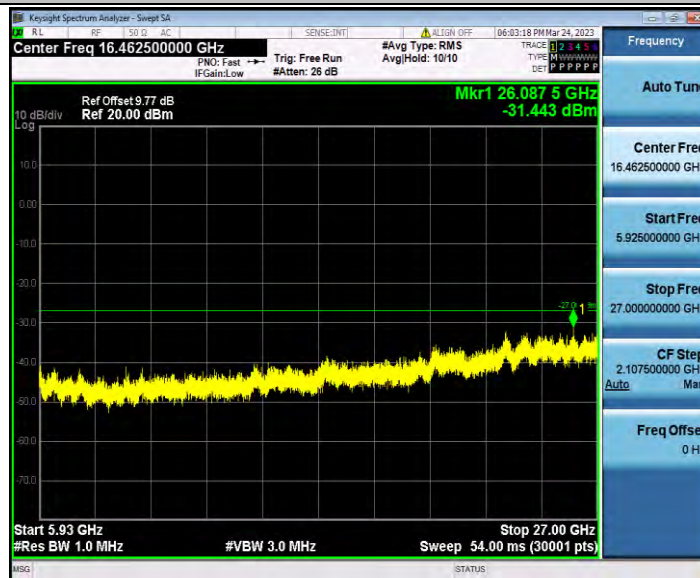
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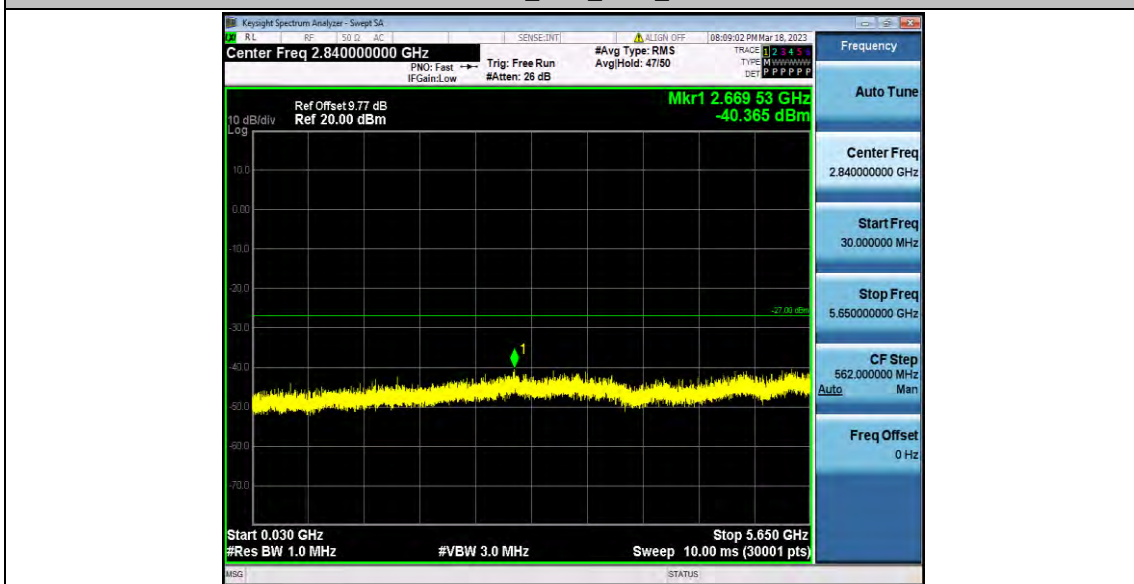
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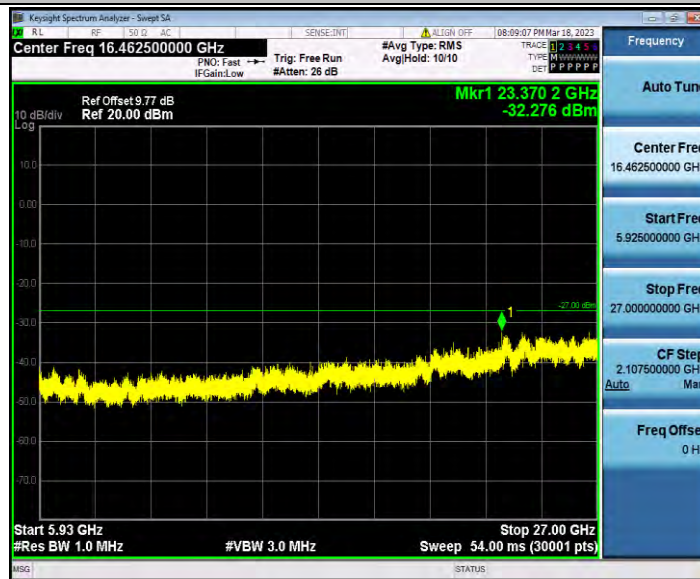
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11AC40SISO_Ant1_5795_5925~40000



11AC80SISO_Ant1_5775_30~5650



11AC80SISO_Ant1_5775_5925~40000

