

Case No. : <u>GTS20230628010-1-4</u>
Ambient Condition: <u>22 °C, 49 %RH, Atmos100.1Kpa,</u>
Test Date: <u>2023.7.12</u> Test Engineer: <u>Jenny zeng</u>

Appendix E.1: Occupied channel bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	17.159	5736.371	5753.530	---	---
		5785	17.197	5776.427	5793.624	---	---
		5825	17.253	5816.362	5833.615	---	---
11N20SISO	Ant1	5745	18.396	5735.757	5754.153	---	---
		5785	18.278	5775.858	5794.136	---	---
		5825	18.351	5815.841	5834.192	---	---
11N40SISO	Ant1	5755	36.707	5736.672	5773.379	---	---
		5795	36.459	5776.772	5813.231	---	---
11AC20SISO	Ant1	5745	18.363	5735.775	5754.138	---	---
		5785	18.265	5775.854	5794.119	---	---
		5825	18.321	5815.835	5834.156	---	---
11AC40SISO	Ant1	5755	36.594	5736.682	5773.276	---	---
		5795	36.408	5776.805	5813.213	---	---
11AC80SISO	Ant1	5775	76.158	5737.035	5813.193	---	---

Test Graphs



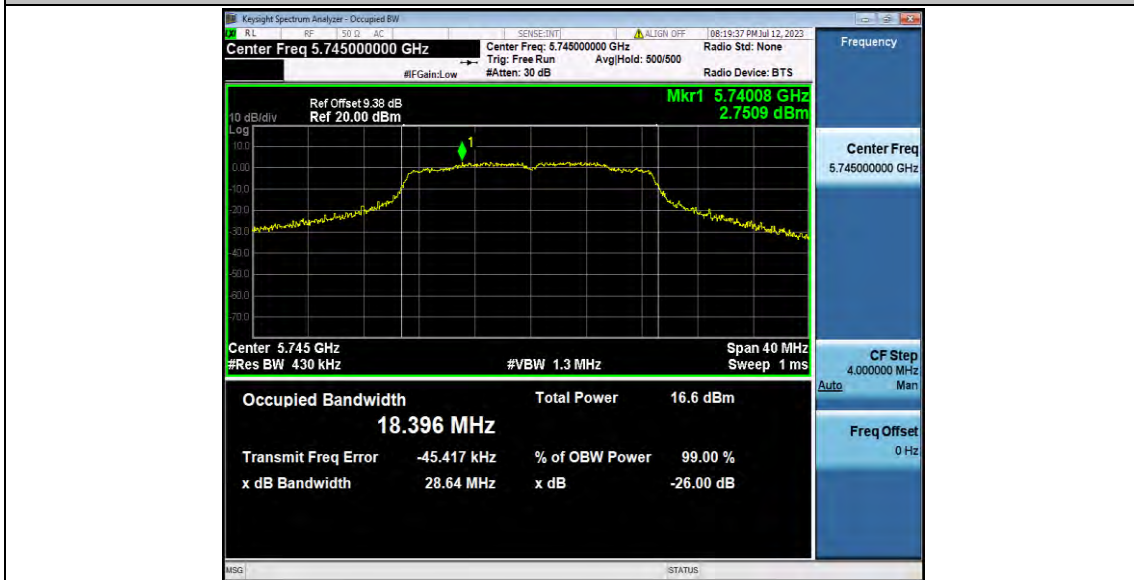
11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



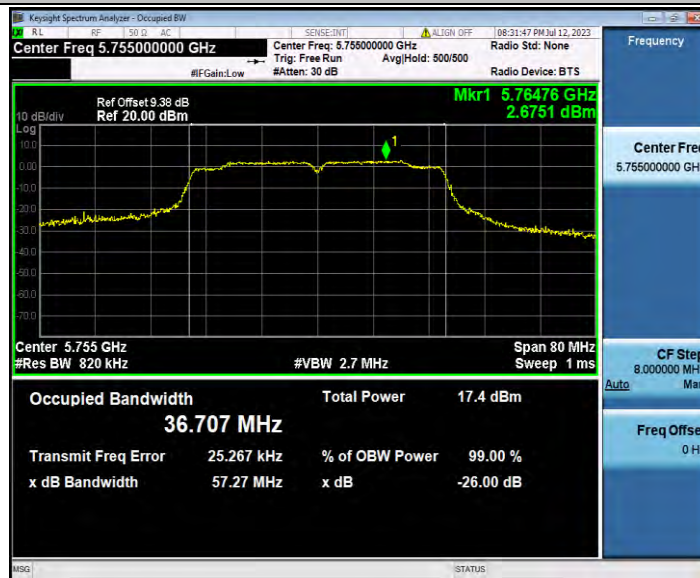
11N20SISO_Ant1_5745



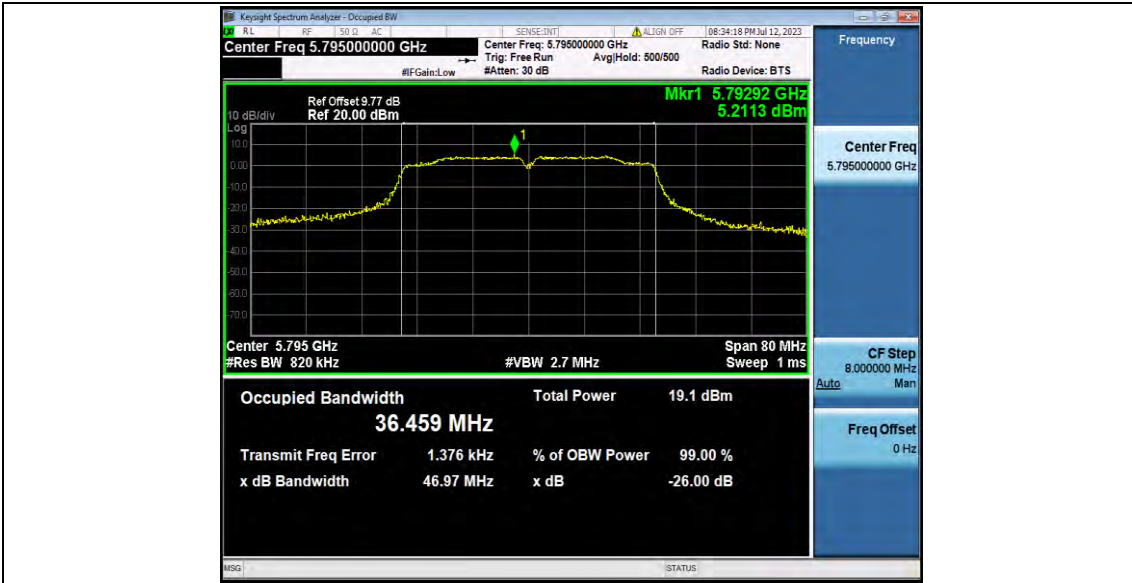
11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



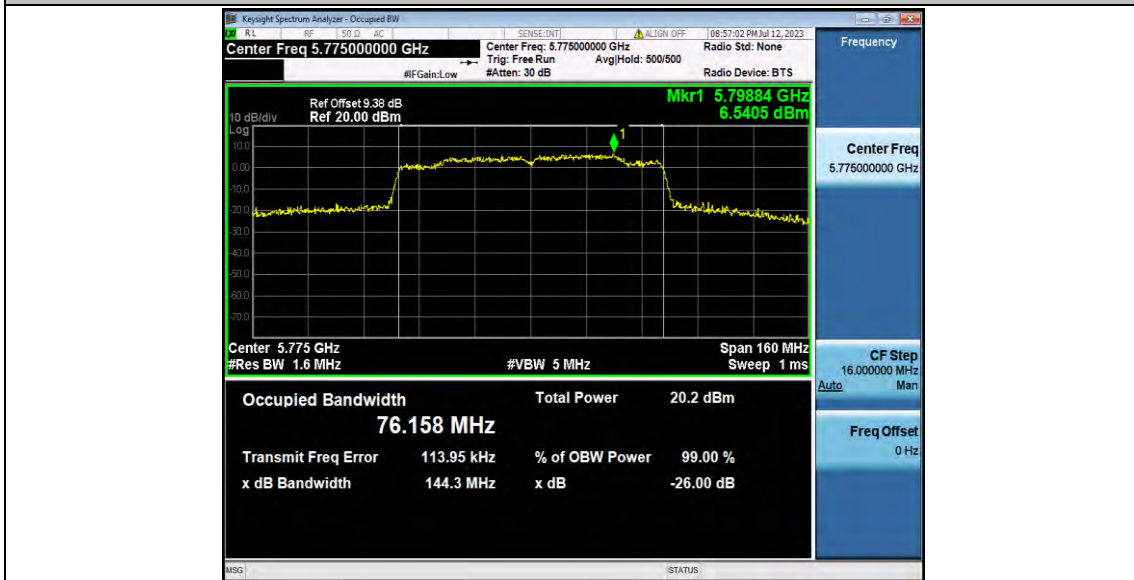
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775

Appendix E.2: Min emission bandwidth

Test Result B4

Test Mode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.040	5737.400	5752.440	0.5	PASS
		5785	15.120	5777.400	5792.520	0.5	PASS
		5825	15.040	5817.480	5832.520	0.5	PASS
11N20SISO	Ant1	5745	15.160	5737.400	5752.560	0.5	PASS
		5785	13.840	5778.680	5792.520	0.5	PASS
		5825	15.080	5817.480	5832.560	0.5	PASS
11N40SISO	Ant1	5755	33.840	5738.680	5772.520	0.5	PASS
		5795	33.840	5778.680	5812.520	0.5	PASS
11AC20SISO	Ant1	5745	13.400	5737.440	5750.840	0.5	PASS
		5785	15.120	5777.440	5792.560	0.5	PASS
		5825	14.960	5817.480	5832.440	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

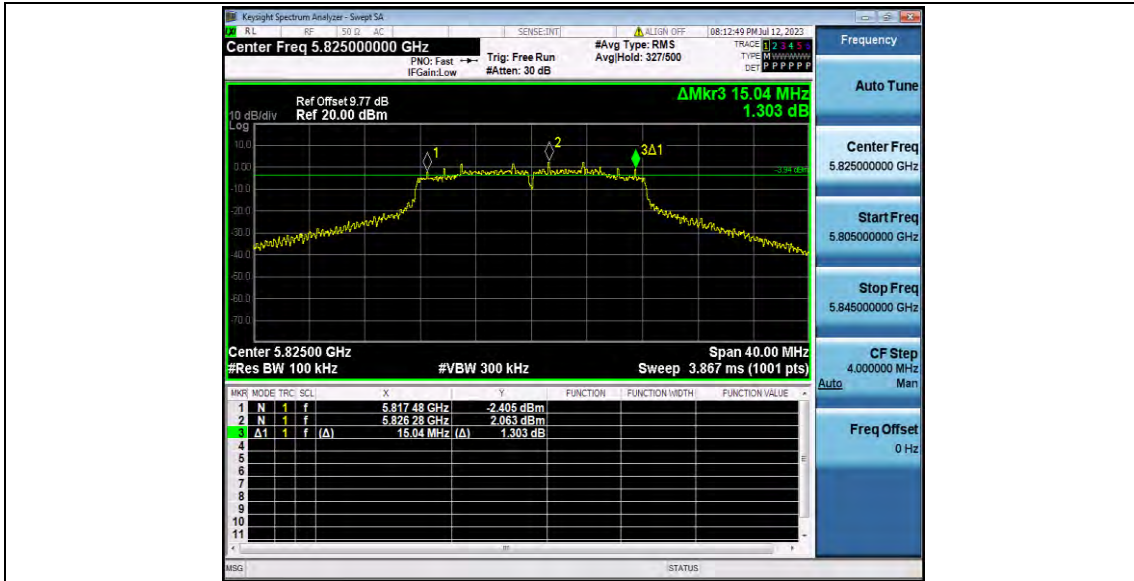
Test Graphs B4



11A_Ant1_5745



11A_Ant1_5785



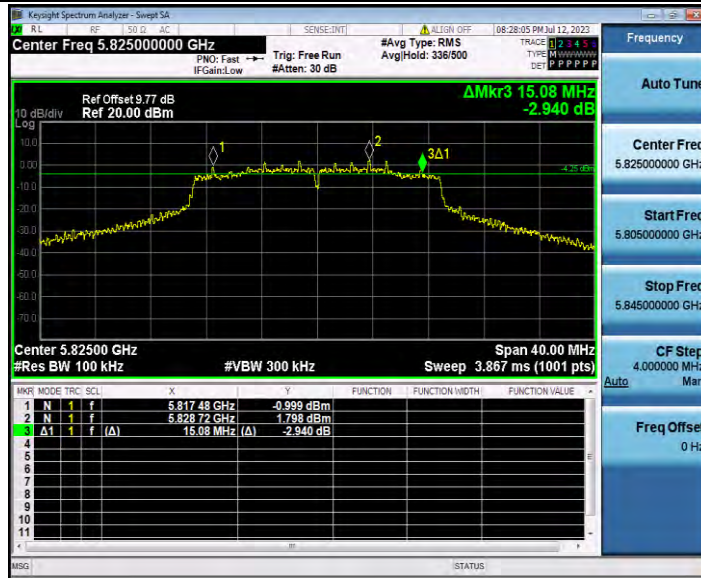
11A_Ant1_5825



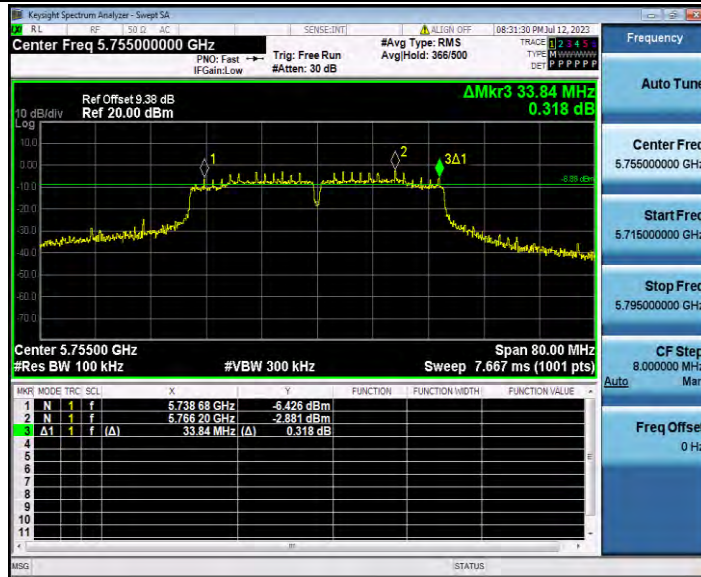
11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



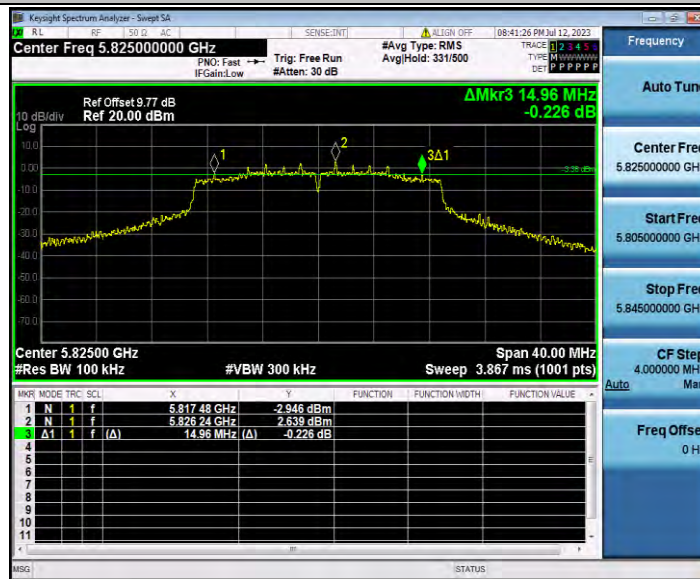
11N40SISO_Ant1_5795



11A20SISO_Ant1_5745



11AC20SISO_Ant1_5785



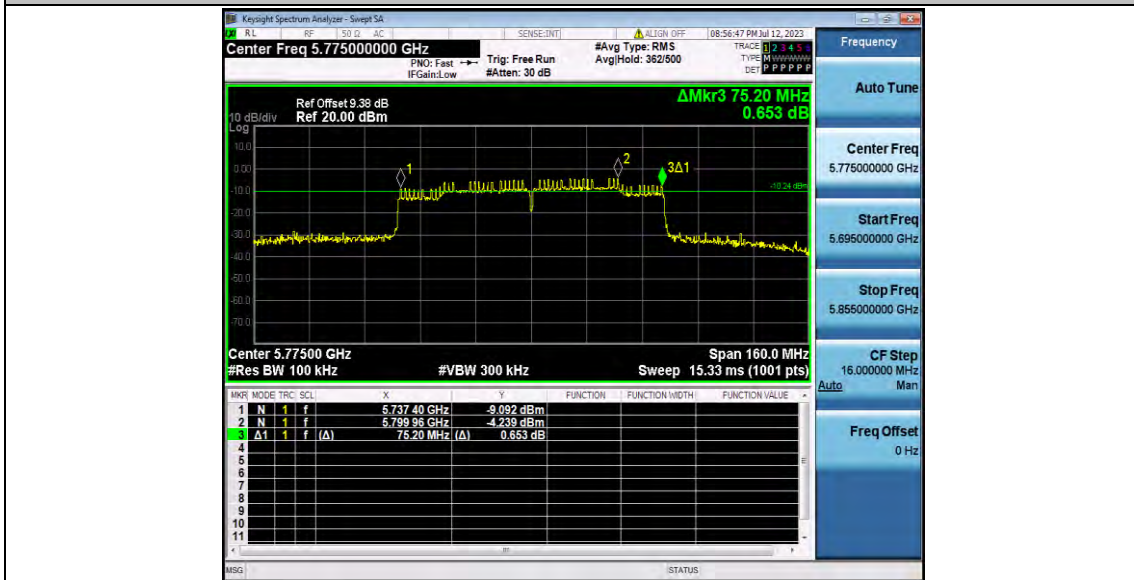
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



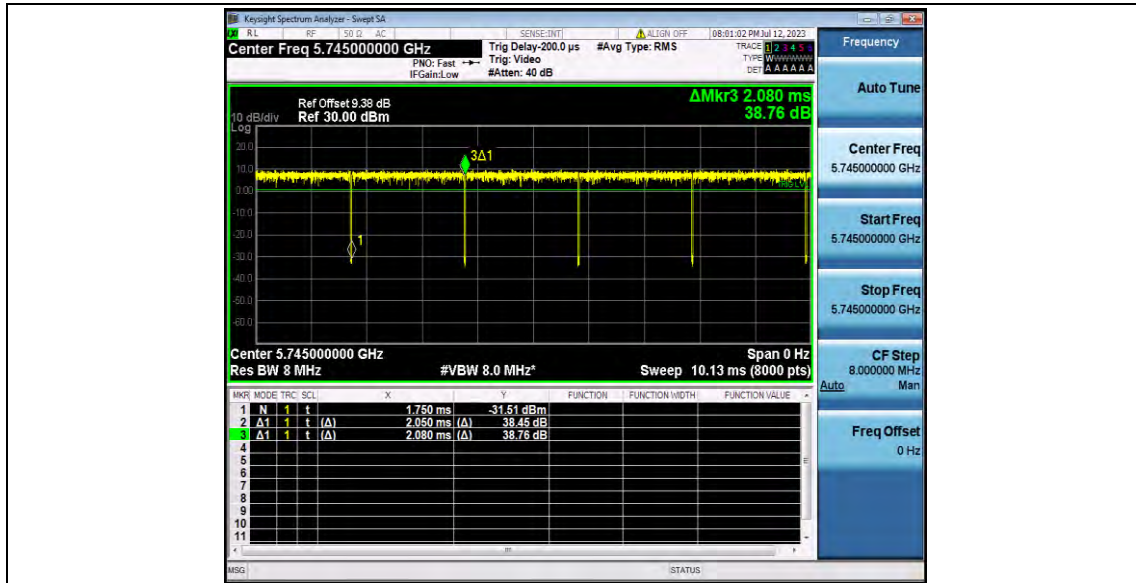
11AC80SISO_Ant1_5775

Appendix E.3: Duty Cycle

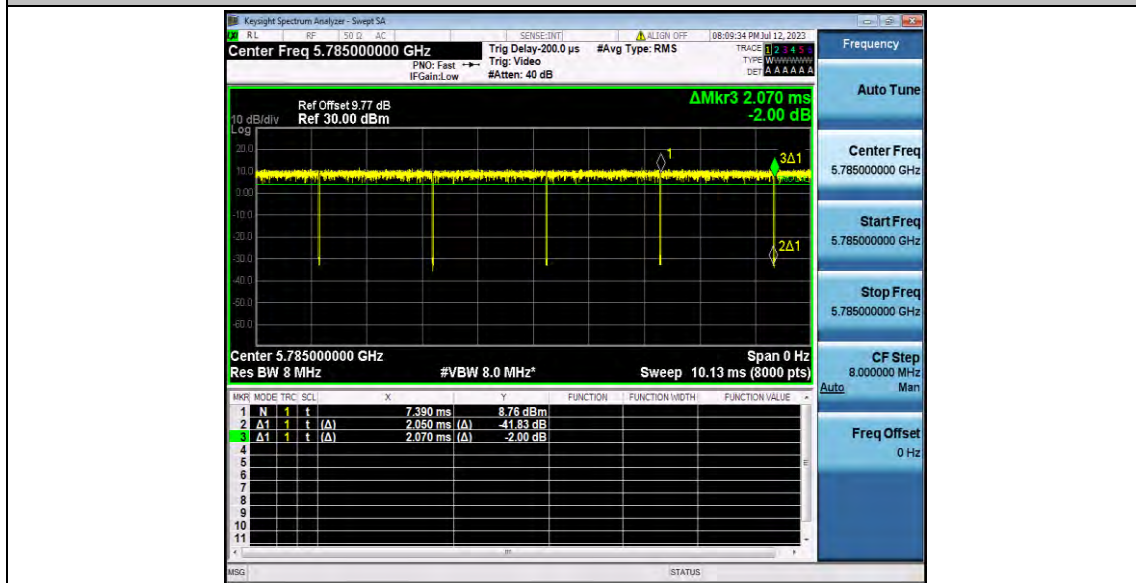
Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant1	5745	2.05	2.08	98.56
		5785	2.05	2.07	99.03
		5825	2.05	2.07	99.03
11N20SISO	Ant1	5745	1.91	1.99	95.98
		5785	1.90	1.99	95.48
		5825	1.91	2.00	95.50
11N40SISO	Ant1	5755	0.94	1.11	84.68
		5795	0.94	1.11	84.68
11AC20SISO	Ant1	5745	1.92	2.00	96.00
		5785	1.92	2.00	96.00
		5825	1.91	2.00	95.50
11AC40SISO	Ant1	5755	0.94	1.11	84.68
		5795	0.95	1.12	84.82
11AC80SISO	Ant1	5775	0.46	0.55	83.64

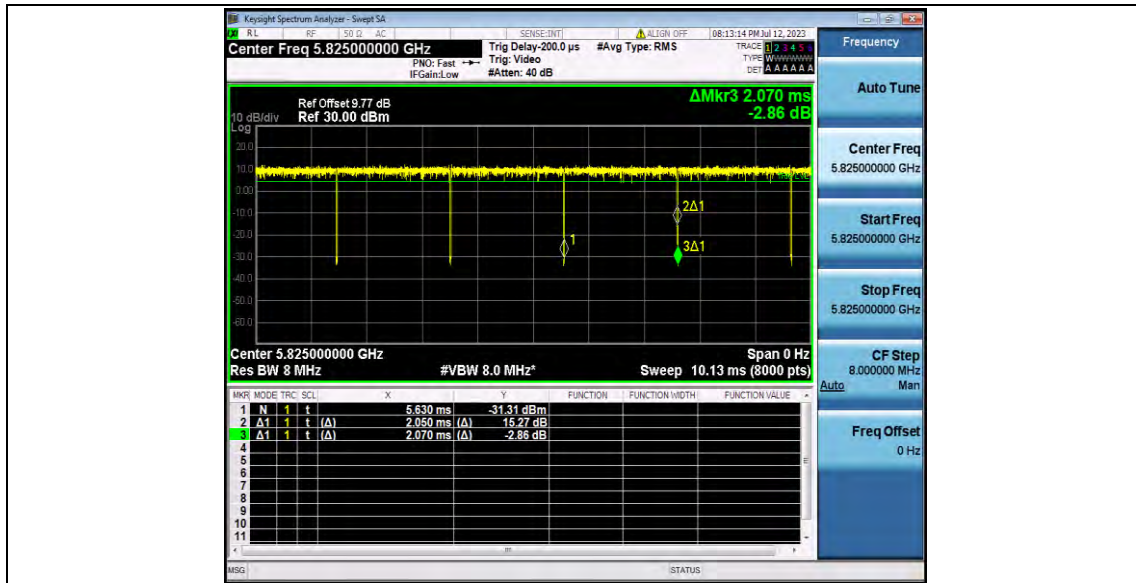
Test Graphs



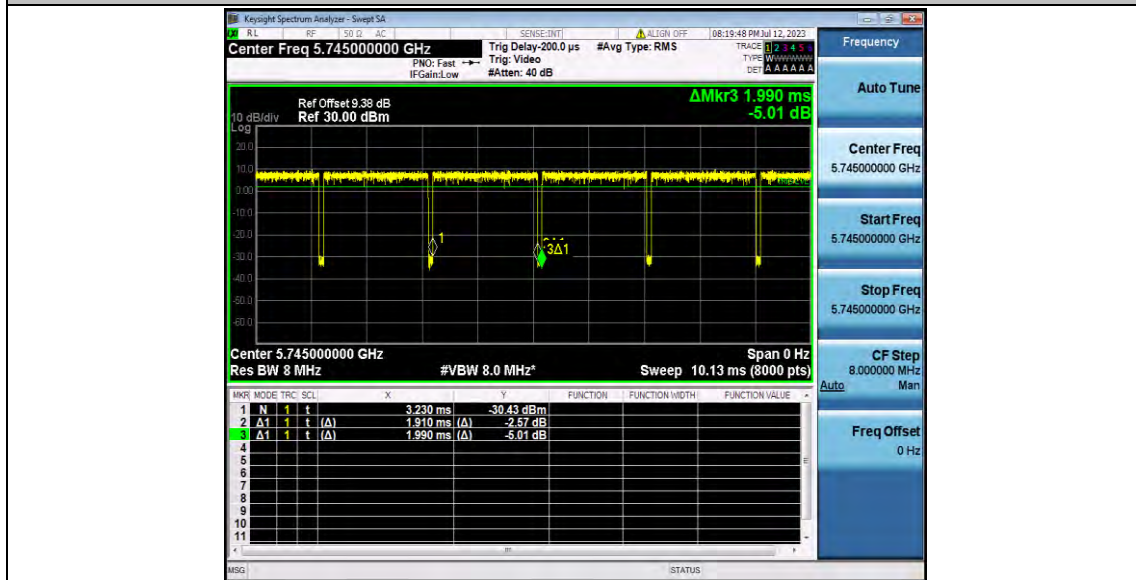
11A_Ant1_5745



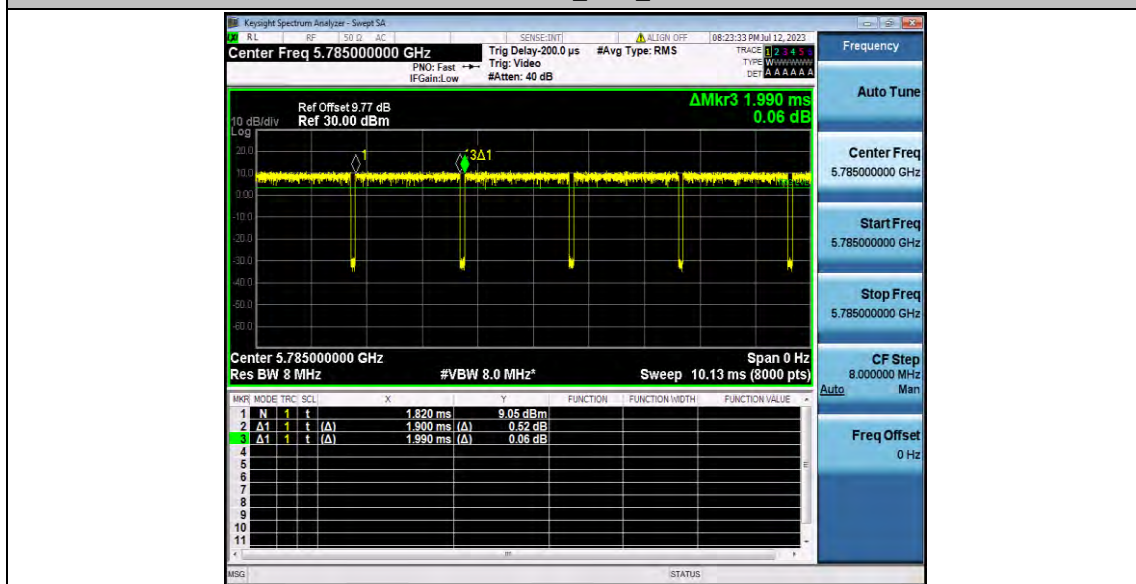
11A_Ant1_5785



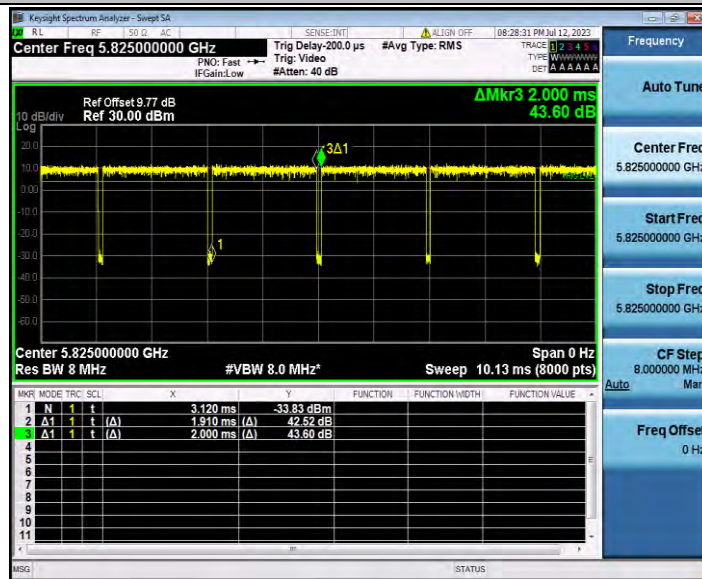
11A_Ant1_5825



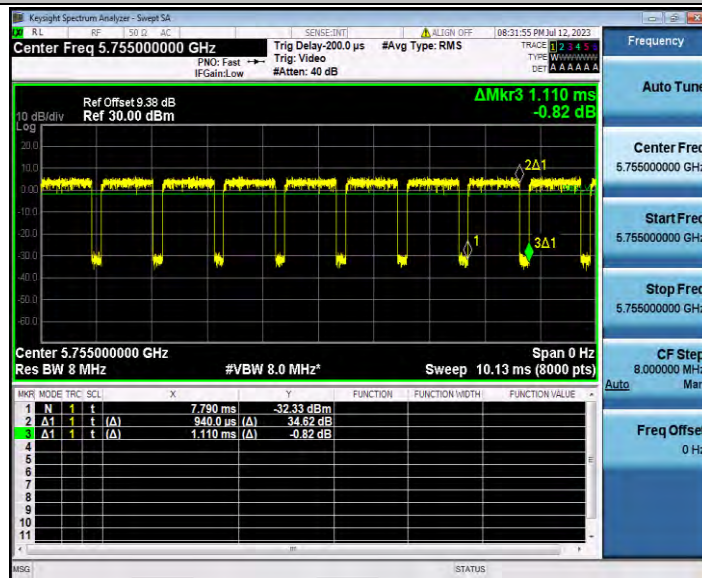
11N20SISO_Ant1_5745



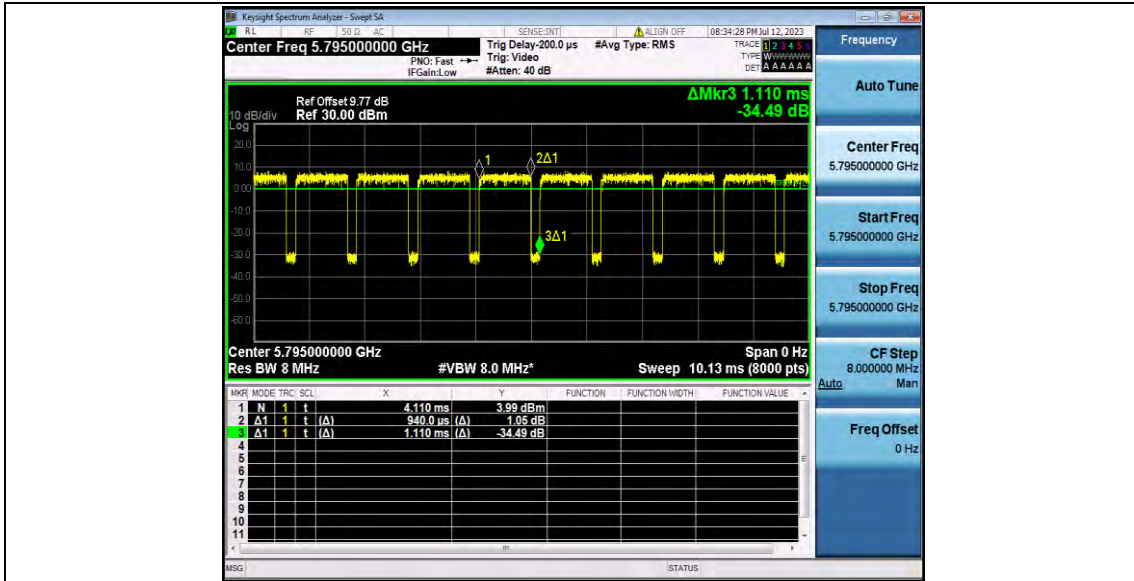
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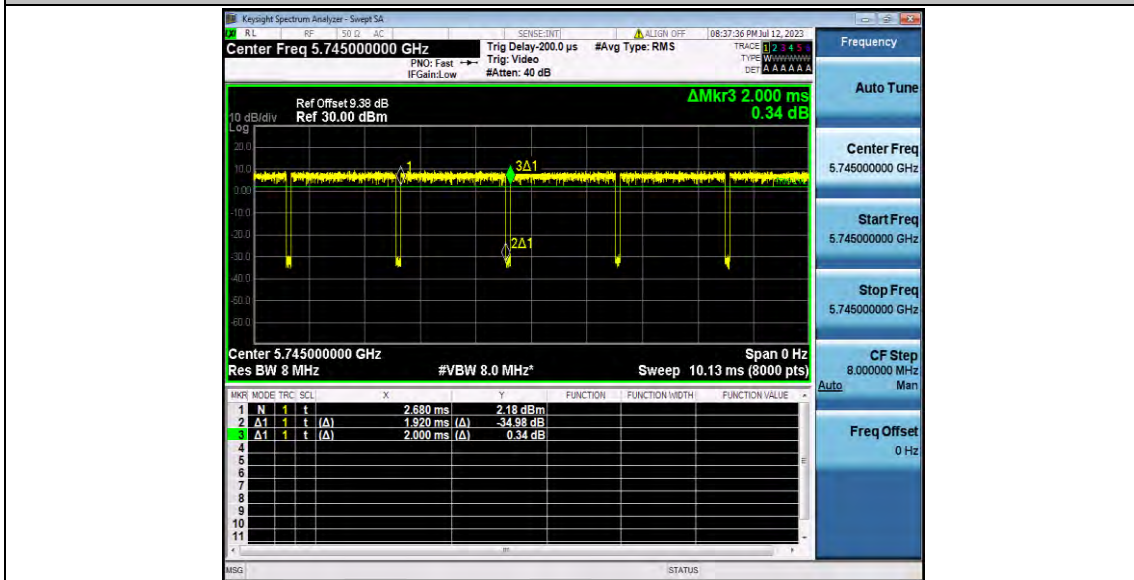
11N20SISO_Ant1_5825



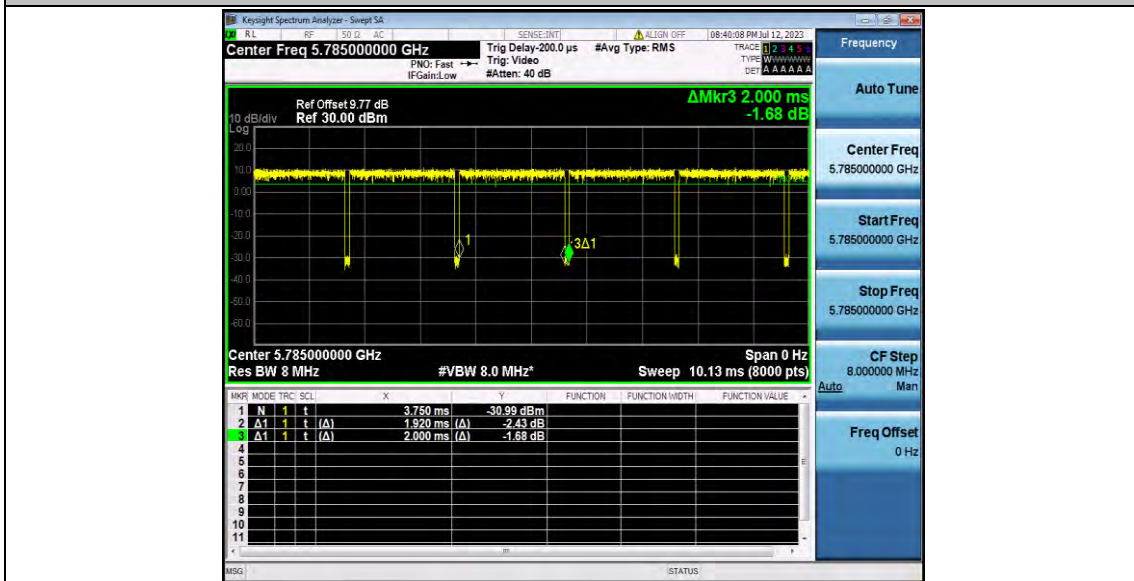
11N40SISO_Ant1_5755



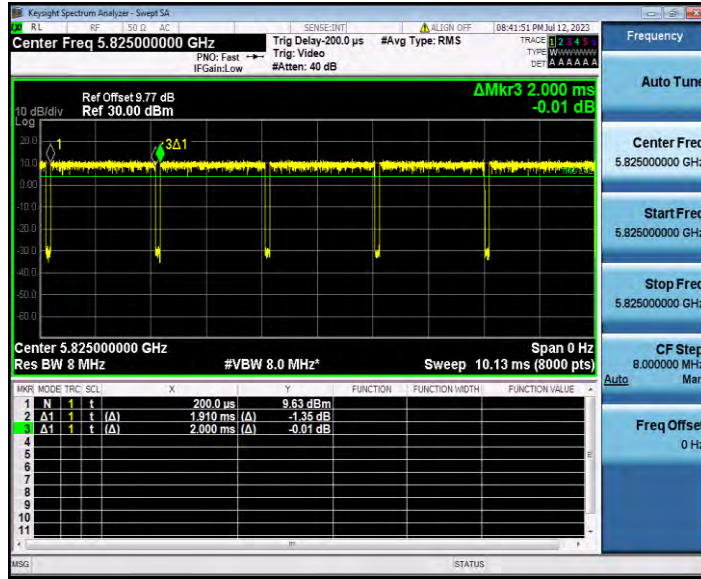
11N40SISO_Ant1_5795



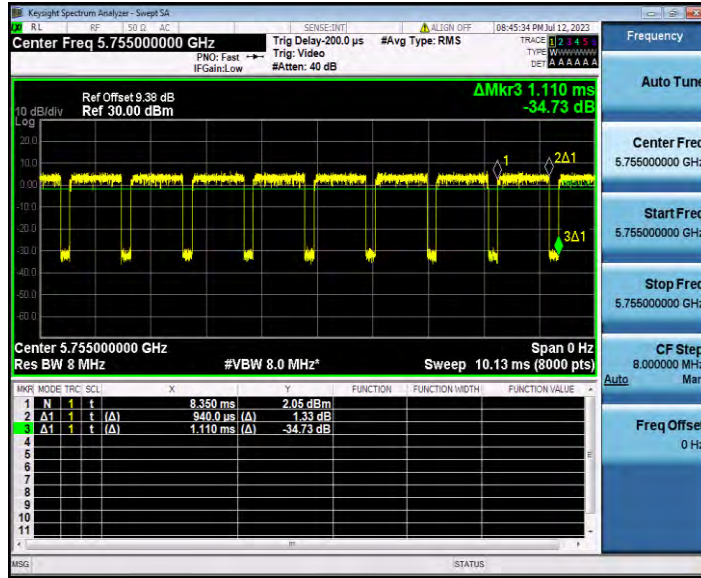
11AC20SISO_Ant1_5745



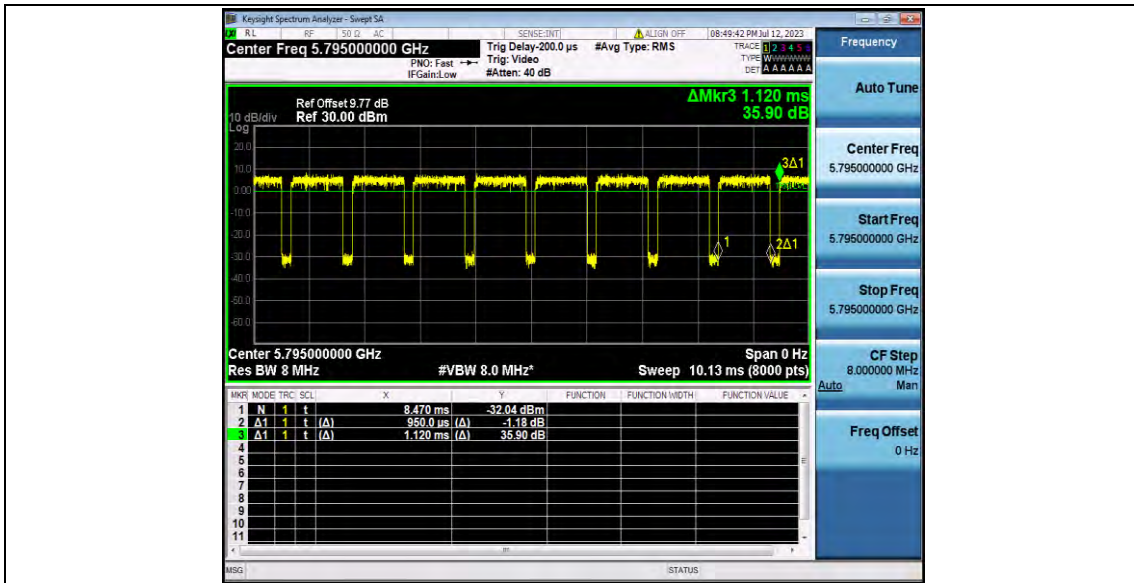
11AC20SISO_Ant1_5785



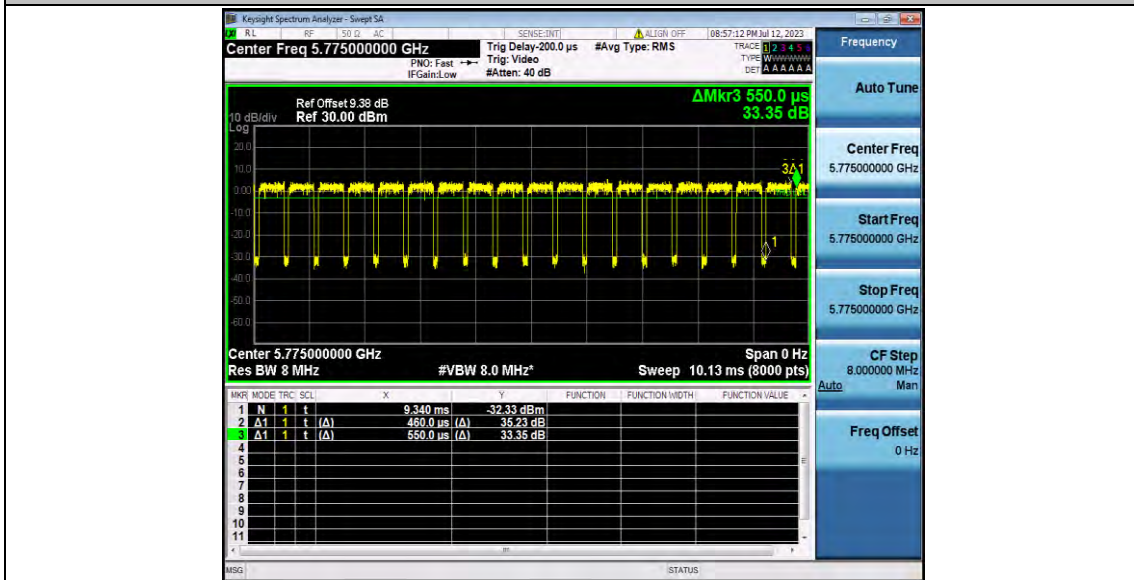
11AC20SISO_Ant1_5825



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	9.53	98.56	0.06	9.59	≤30.00	PASS
		5785	11.44	99.03	0.04	11.48	≤30.00	PASS
		5825	12.05	99.03	0.04	12.09	≤30.00	PASS
11N20SISO	Ant1	5745	9.63	95.98	0.18	9.81	≤30.00	PASS
		5785	11.14	95.48	0.20	11.34	≤30.00	PASS
		5825	12.05	95.50	0.20	12.25	≤30.00	PASS
11N40SISO	Ant1	5755	9.30	84.68	0.72	10.02	≤30.00	PASS
		5795	10.78	84.68	0.72	11.50	≤30.00	PASS
11AC20SISO	Ant1	5745	9.57	96.00	0.18	9.75	≤30.00	PASS
		5785	11.19	96.00	0.18	11.37	≤30.00	PASS
		5825	11.88	95.50	0.20	12.08	≤30.00	PASS
11AC40SISO	Ant1	5755	9.02	84.68	0.72	9.74	≤30.00	PASS
		5795	10.62	84.82	0.72	11.34	≤30.00	PASS
11AC80SISO	Ant1	5775	10.86	83.64	0.78	11.64	≤30.00	PASS

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

Appendix E.5: Maximum power spectral density

Test Result

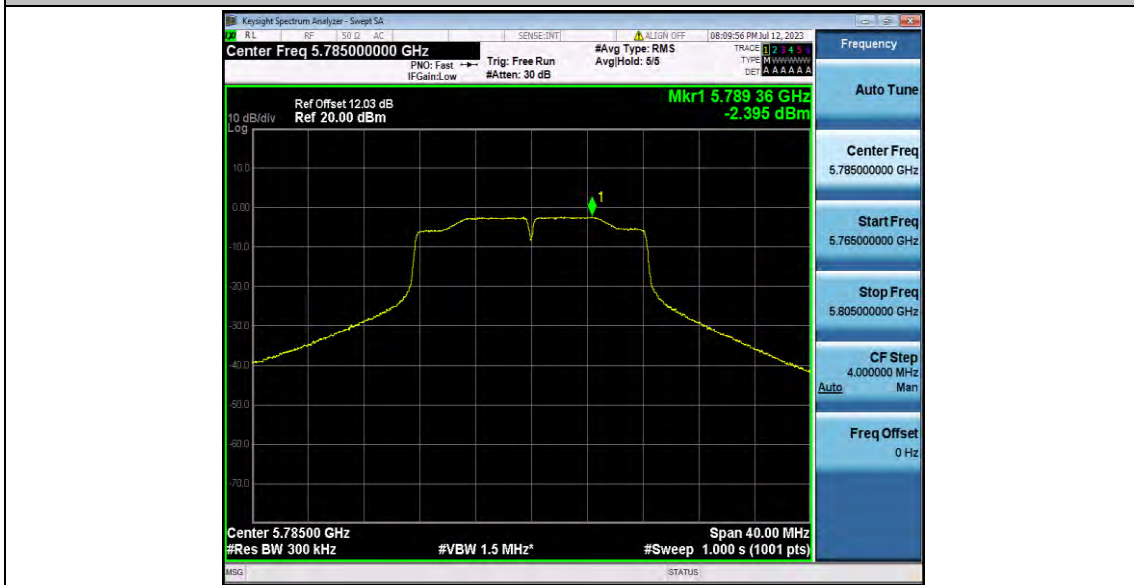
Test Mode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-3.93	≤30.00	PASS
		5785	-2.4	≤30.00	PASS
		5825	-1.75	≤30.00	PASS
11N20SISO	Ant1	5745	-3.89	≤30.00	PASS
		5785	-2.34	≤30.00	PASS
		5825	-1.35	≤30.00	PASS
11N40SISO	Ant1	5755	-6.53	≤30.00	PASS
		5795	-4.98	≤30.00	PASS
11AC20SISO	Ant1	5745	-4.21	≤30.00	PASS
		5785	-2.54	≤30.00	PASS
		5825	-1.74	≤30.00	PASS
11AC40SISO	Ant1	5755	-6.73	≤30.00	PASS
		5795	-5.14	≤30.00	PASS
11AC80SISO	Ant1	5775	-7.74	≤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



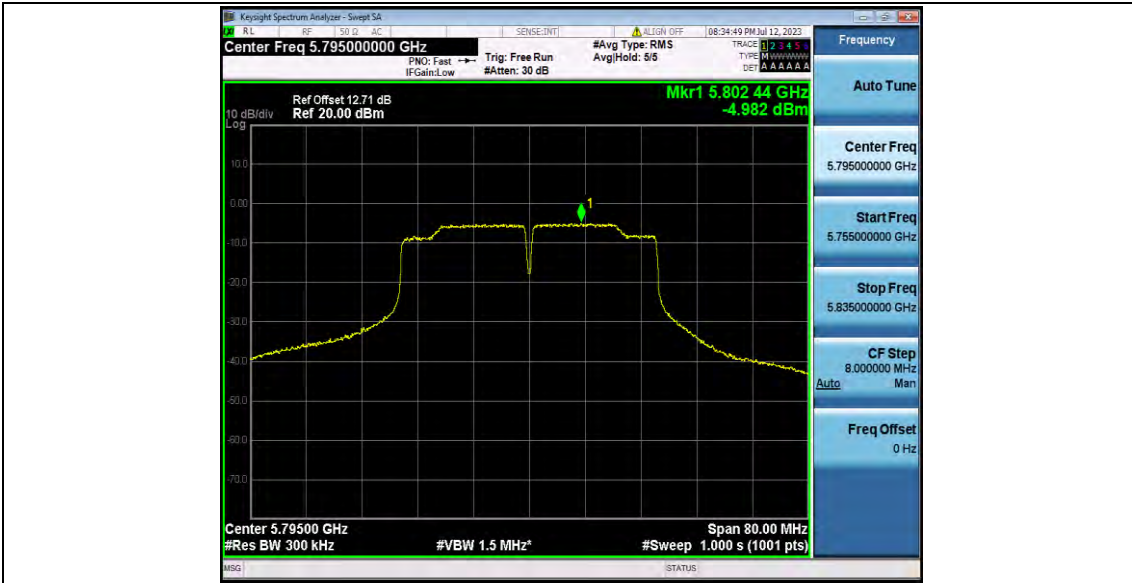
11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



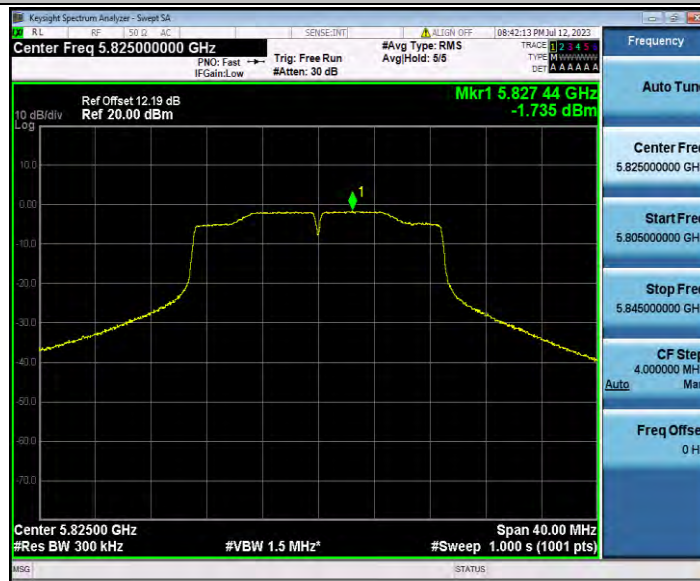
11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775

Appendix E.6: Band edge measurements

Test Result B4

TestMode	Antenna	ChName	Frequency[M Hz]	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-38.01	≤8.11	PASS
				5700~5720	-30.28	≤15.08	PASS
				5720~5725	-26.79	≤23.16	PASS
				5760~5650	-40.3	≤-27	PASS
		High	5825	5850~5855	-31.35	≤17.03	PASS
				5855~5875	-35.04	≤10.44	PASS
				5875~5925	-37.57	≤-23.16	PASS
5925~5935	-38.9	≤-27	PASS				
11N20SIS O	Ant1	Low	5745	5650~5700	-35.89	≤9.72	PASS
				5700~5720	-29.31	≤15.59	PASS
				5720~5725	-23.74	≤23.94	PASS
				5760~5650	-38.9	≤-27	PASS
		High	5825	5850~5855	-30.76	≤21.33	PASS
				5855~5875	-32.61	≤10.06	PASS
				5875~5925	-37.19	≤-7.97	PASS
5925~5935	-38.42	≤-27	PASS				
11N40SIS O	Ant1	Low	5755	5650~5700	-31.89	≤7.06	PASS
				5700~5720	-23.04	≤14.63	PASS
				5720~5725	-21.75	≤16.97	PASS
				5780~5650	-39	≤-27	PASS
		High	5795	5850~5855	-35.49	≤22.80	PASS
				5855~5875	-37.06	≤10.73	PASS
				5875~5925	-37.52	≤-23.99	PASS
5925~5935	-38.96	≤-27	PASS				
11AC20SI SO	Ant1	Low	5745	5650~5700	-36.65	≤9.72	PASS
				5700~5720	-29.8	≤15.43	PASS
				5720~5725	-22.38	≤23.68	PASS
				5760~5650	-39.87	≤-27	PASS
		High	5825	5850~5855	-32.04	≤15.79	PASS
				5855~5875	-33.65	≤10.14	PASS
				5875~5925	-37.86	≤-18.66	PASS
5925~5935	-38.8	≤-27	PASS				
11AC40SI SO	Ant1	Low	5755	5650~5700	-32.22	≤9.66	PASS
				5700~5720	-23.83	≤15.05	PASS
				5720~5725	-22.5	≤26.20	PASS

				5780~5650	-38.71	≤ -27	PASS
		High	5795	5850~5855	-36.18	≤ 22.80	PASS
				5855~5875	-36.27	≤ 10.50	PASS
				5875~5925	-37.68	≤ -19.35	PASS
				5925~5935	-38.17	≤ -27	PASS
11AC80SI SO	Ant1	Low	5775	5650~5700	-21.72	≤ 8.07	PASS
				5700~5720	-19.99	≤ 12.31	PASS
				5720~5725	-19.67	≤ 17.77	PASS
				5800~5650	-30.18	≤ -27	PASS
				5850~5855	-24.07	≤ 18.32	PASS
		High	5775	5855~5875	-26.06	≤ 10.33	PASS
				5875~5925	-31.65	≤ -25.04	PASS
				5925~5935	-37.46	≤ -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



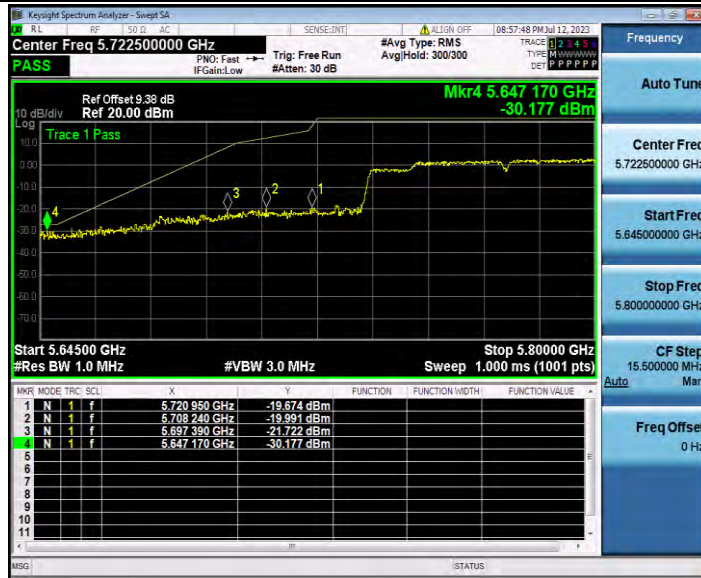
11AC20SISO_Ant1_High_5825



11AC40SISO_Ant1_Low_5755



11AC40SISO_Ant1_High_5795



11AC80SISO_Ant1_Low_5775



11AC80SISO_Ant1_High_5775

Appendix E.7: Conducted Spurious Emission

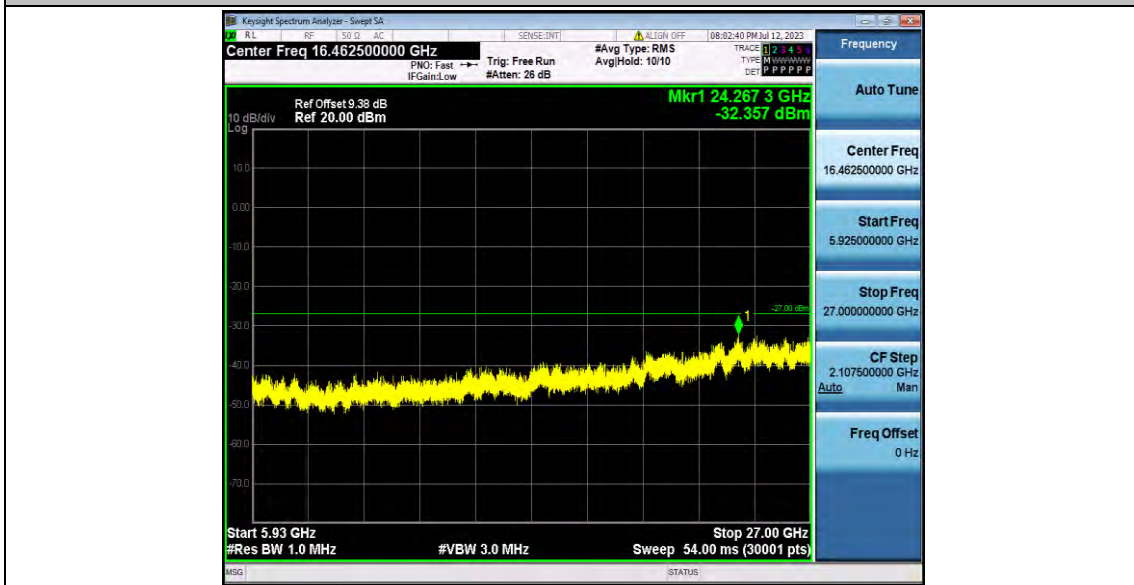
Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	30~5650	2681.7	-39.99	≤-27	PASS
			5925~40000	24267.28	-32.36	≤-27	PASS
		5785	30~5650	5040.23	-40.31	≤-27	PASS
			5925~40000	25026.68	-31.13	≤-27	PASS
		5825	30~5650	3298.03	-40.57	≤-27	PASS
			5925~40000	26839.83	-31.35	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	5443.18	-40.75	≤-27	PASS
			5925~40000	26067.08	-32.75	≤-27	PASS
		5785	30~5650	5627.89	-40.45	≤-27	PASS
			5925~40000	26489.28	-32.26	≤-27	PASS
		5825	30~5650	2748.39	-39.93	≤-27	PASS
			5925~40000	24793.45	-32.34	≤-27	PASS
11N40SISO	Ant1	5755	30~5650	5458.36	-39.79	≤-27	PASS
			5925~40000	24858.08	-32.56	≤-27	PASS
		5795	30~5650	5464.73	-40.61	≤-27	PASS
			5925~40000	24265.17	-31.98	≤-27	PASS
11AC20SISO	Ant1	5745	30~5650	5649.06	-41.14	≤-27	PASS
			5925~40000	26759.04	-32.37	≤-27	PASS
		5785	30~5650	2524.91	-40.32	≤-27	PASS
			5925~40000	25031.6	-32.27	≤-27	PASS
		5825	30~5650	5496.2	-40.46	≤-27	PASS
			5925~40000	24234.26	-31.82	≤-27	PASS
11AC40SISO	Ant1	5755	30~5650	5455.55	-40.86	≤-27	PASS
			5925~40000	23585.15	-30.95	≤-27	PASS
		5795	30~5650	2658.47	-39.69	≤-27	PASS
			5925~40000	26862.31	-32.52	≤-27	PASS
11AC80SISO	Ant1	5775	30~5650	5647.38	-32.32	≤-27	PASS
			5925~40000	26523.71	-32.62	≤-27	PASS

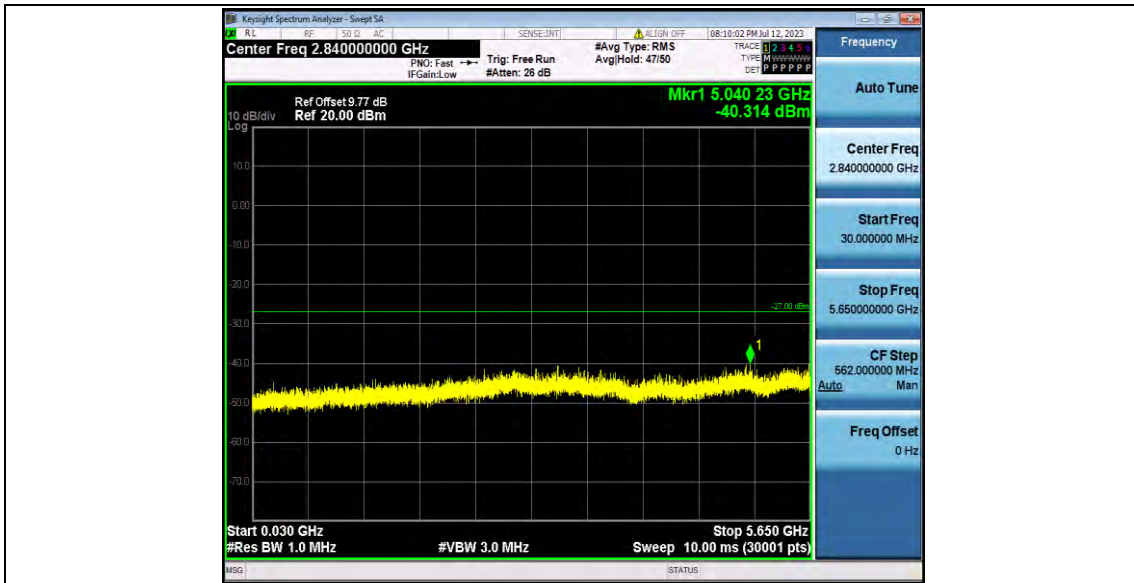
Test Graphs



11A_Ant1_5745_30~5650



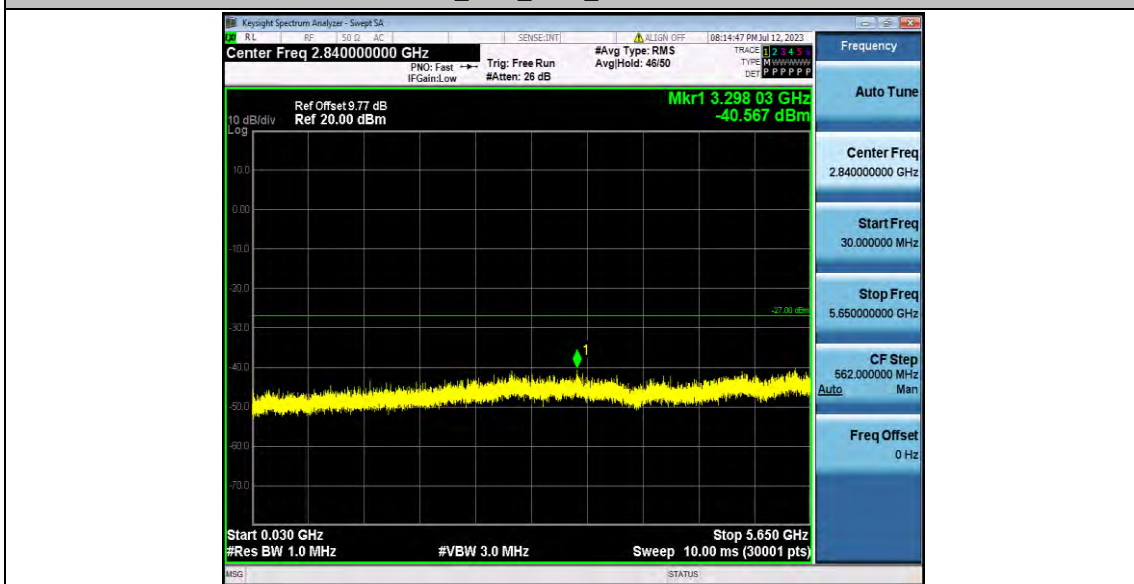
11A_Ant1_5745_5925~40000



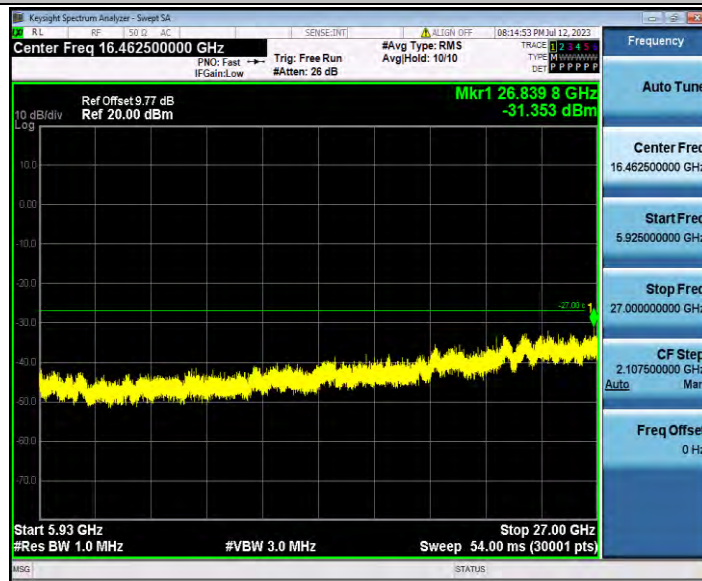
11A_Ant1_5785_30~5650



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



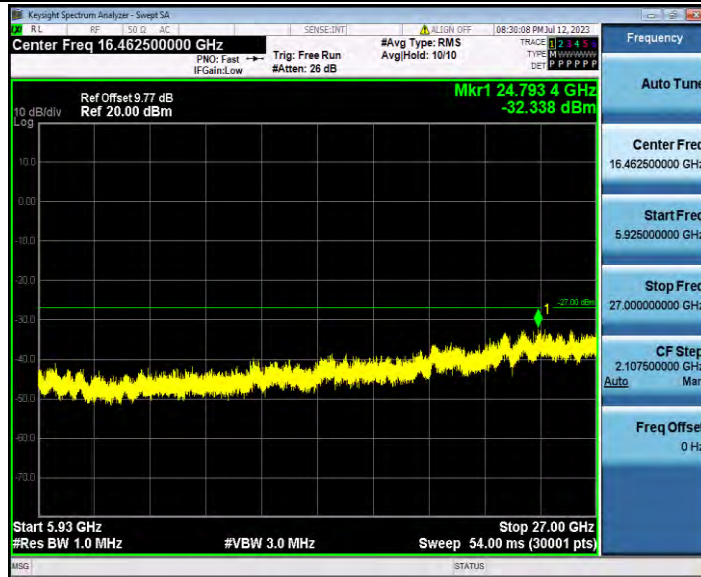
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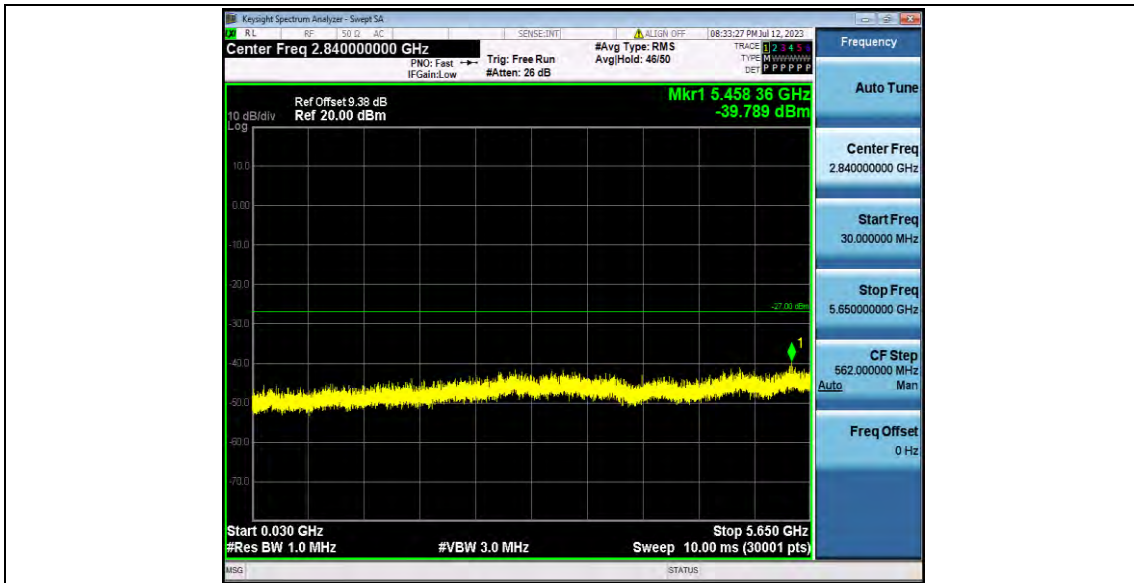
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11N20SISO_Ant1_5825_30~5650



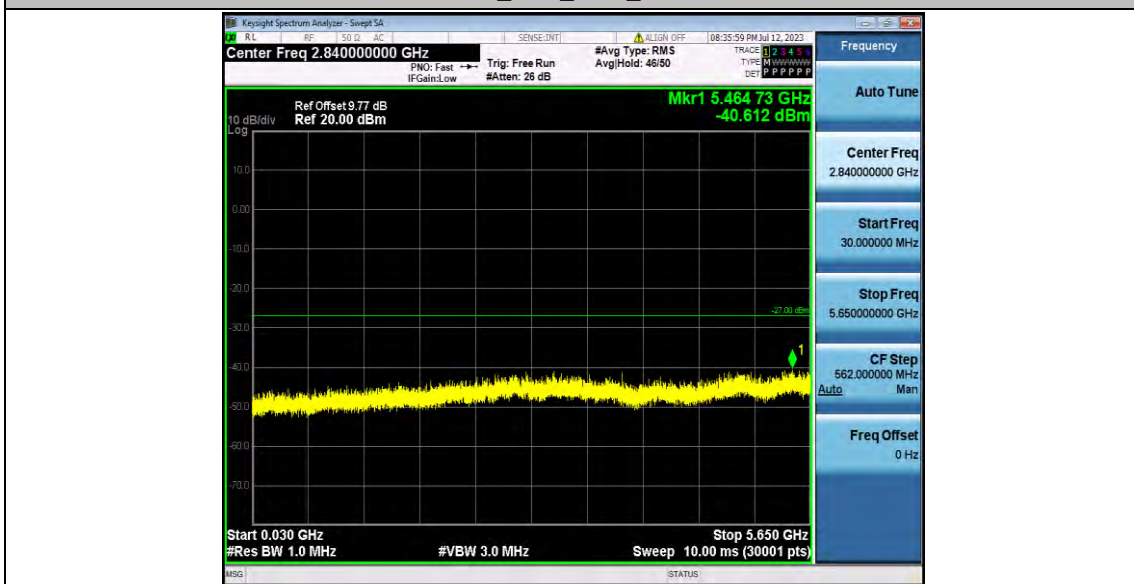
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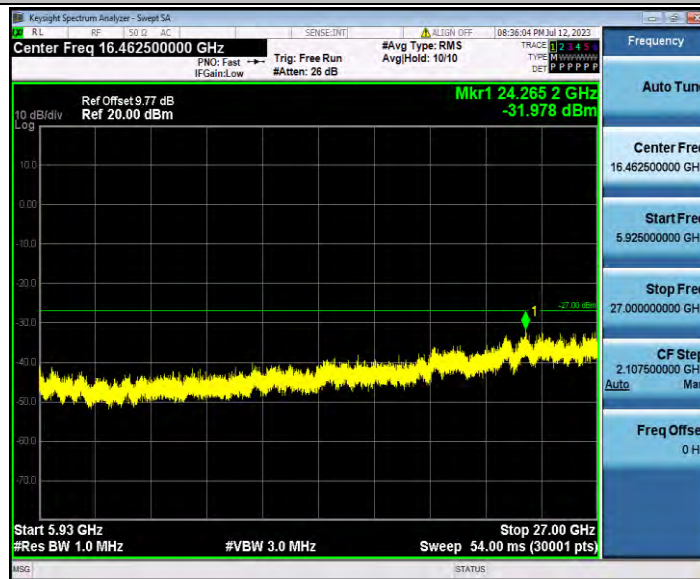
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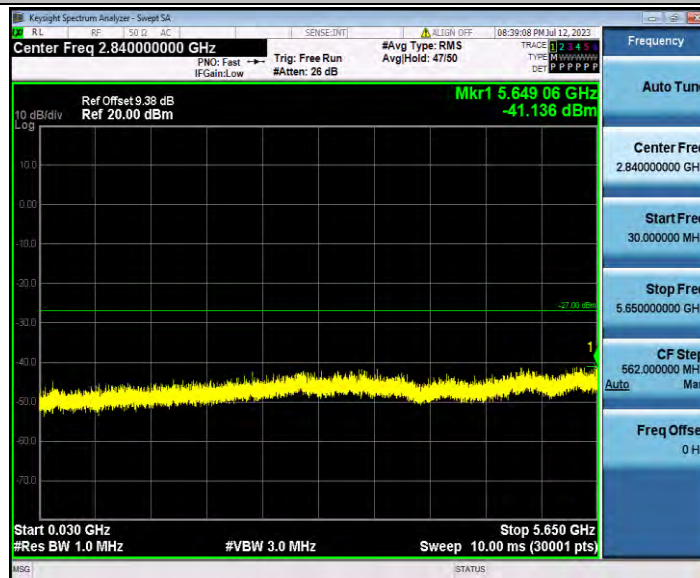
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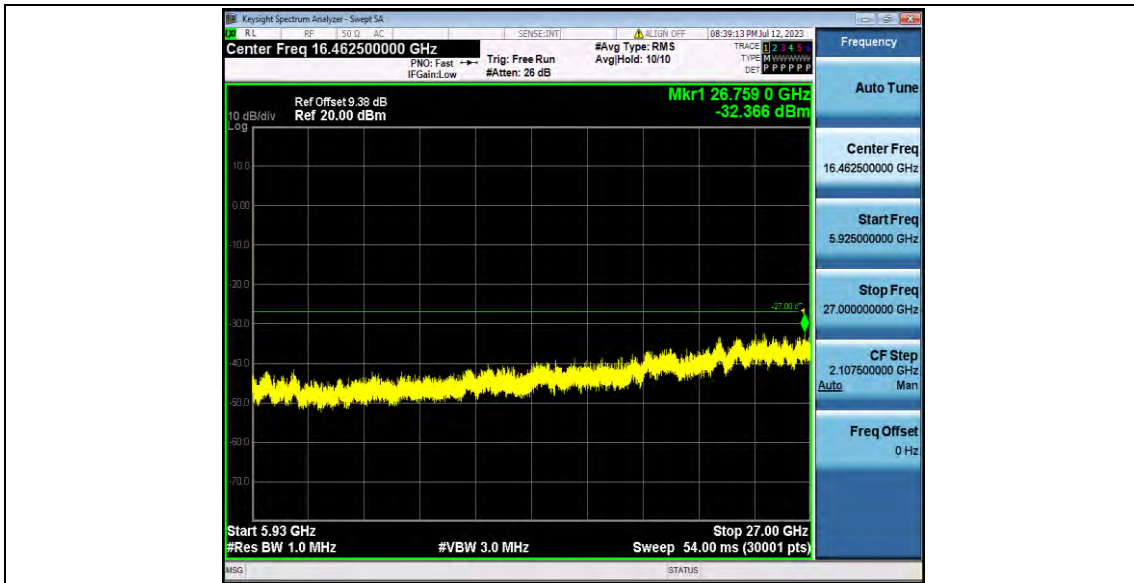
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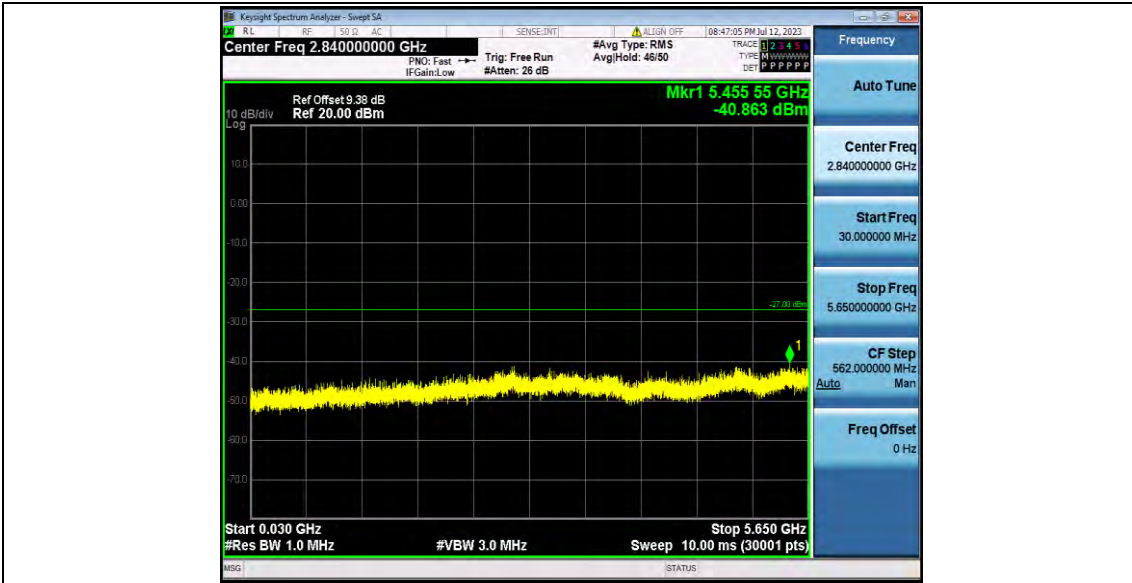
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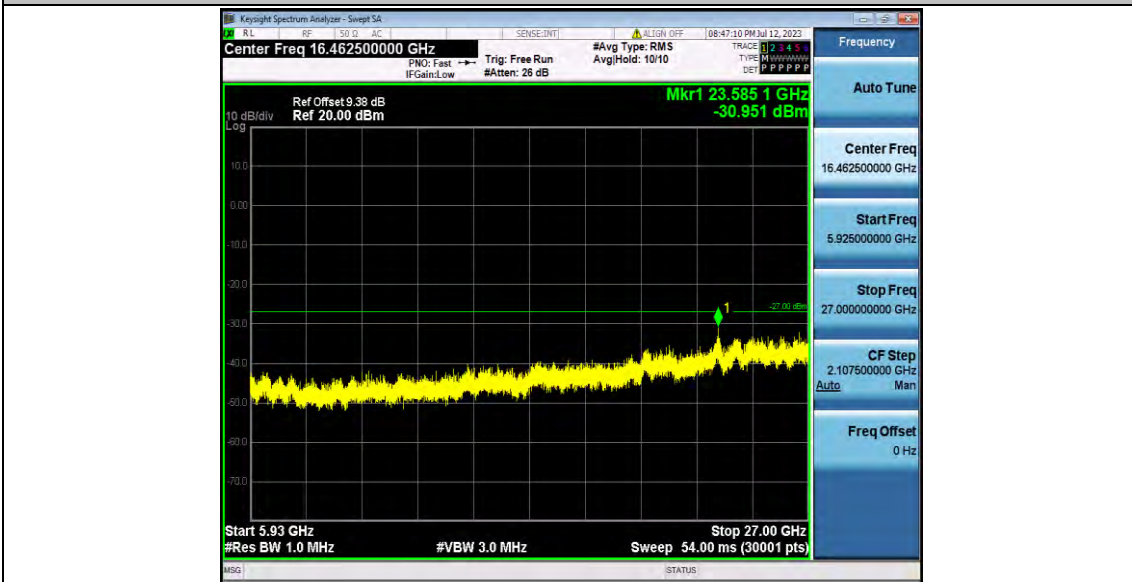
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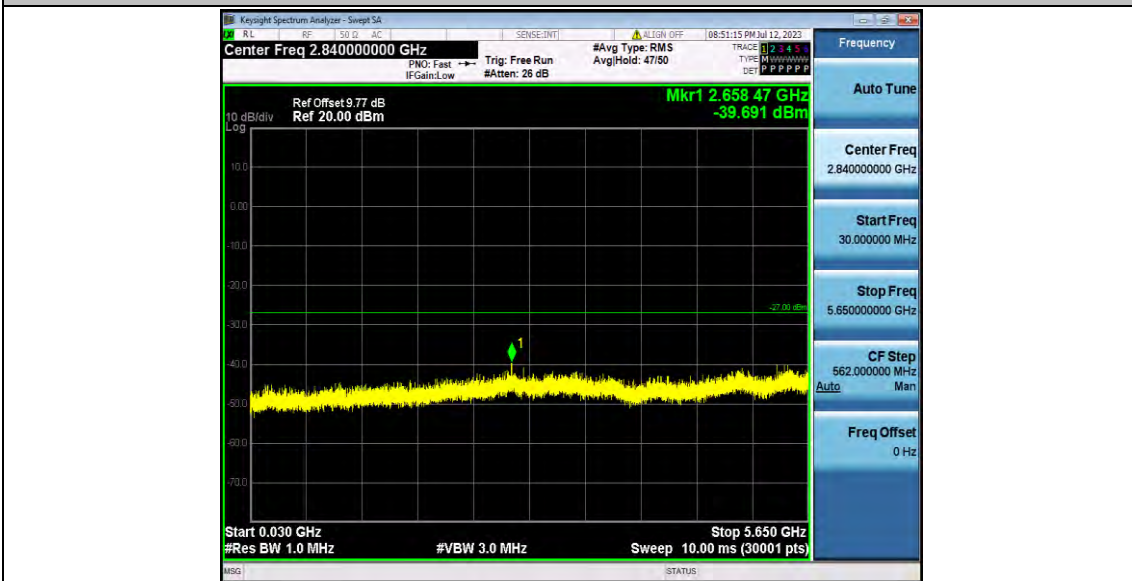
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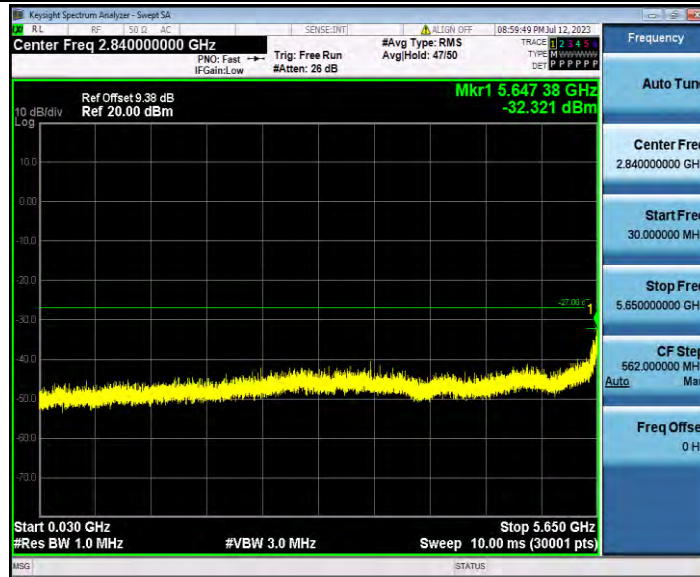
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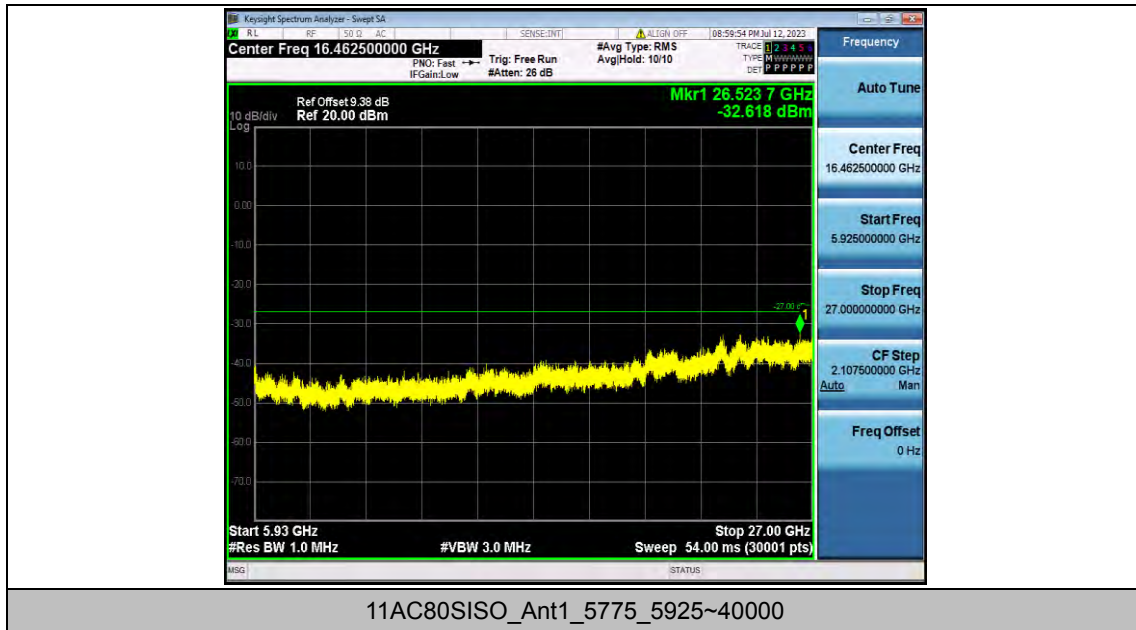
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