

Case No. : <u>GTS20231017004-1-13</u>
Ambient Condition: <u>23</u> °C, <u>49</u> %RH, Atmos100.1Kpa,
Test Date: <u>2023.12.1</u> Test Engineer: <u>Evan ouyang</u>

Appendix E.1: Occupied channel bandwidth

Test Result

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5745	16.936	5736.516	5753.452	---	---
		5785	16.913	5776.561	5793.474	---	---
		5825	16.988	5816.539	5833.527	---	---
11N20SISO	Ant2	5745	17.992	5735.998	5753.990	---	---
		5785	17.960	5776.033	5793.993	---	---
		5825	18.033	5816.000	5834.033	---	---
11N40SISO	Ant2	5755	36.268	5736.920	5773.188	---	---
		5795	36.238	5776.920	5813.158	---	---
11AC20SISO	Ant2	5745	17.938	5736.013	5753.951	---	---
		5785	17.978	5776.011	5793.989	---	---
		5825	18.014	5816.023	5834.037	---	---
11AC40SISO	Ant2	5755	36.253	5736.918	5773.171	---	---
		5795	36.197	5776.951	5813.148	---	---
11AC80SISO	Ant2	5775	75.261	5737.521	5812.782	---	---

Test Graphs



11A_Ant2_5745



11A_Ant2_5785



11A_Ant2_5825



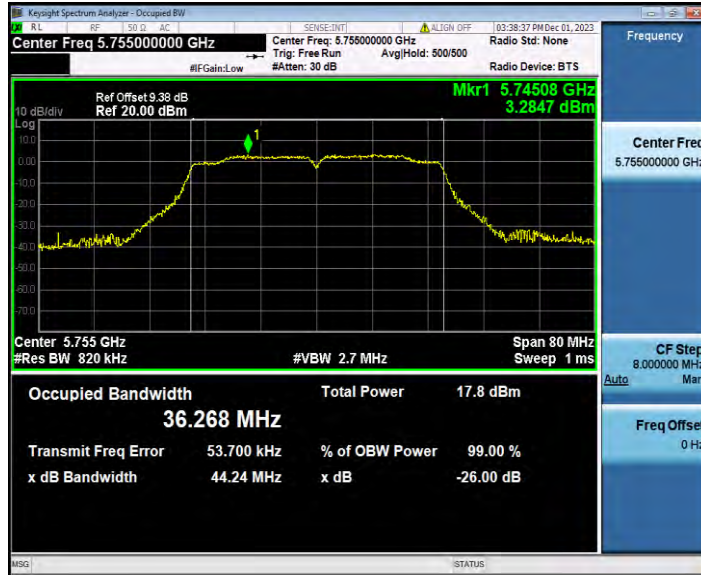
11N20SISO_Ant2_5745



11N20SISO_Ant2_5785



11N20SISO_Ant2_5825



11N40SISO_Ant2_5755



11N40SISO_Ant2_5795



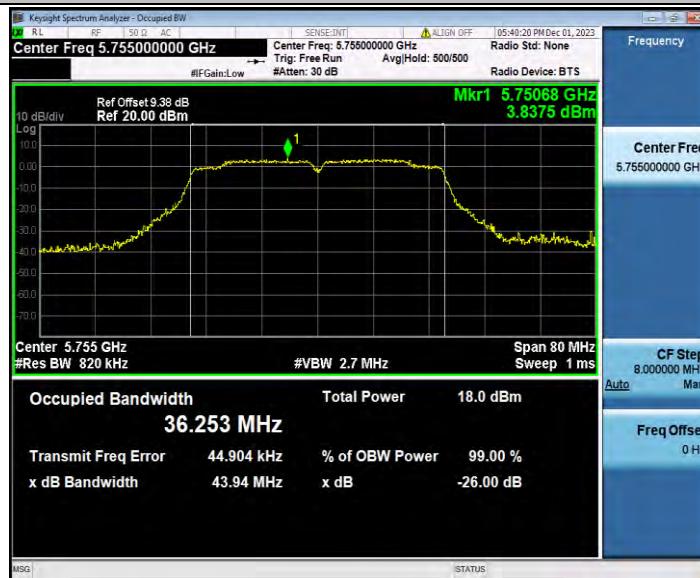
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11AC20SISO_Ant2_5785



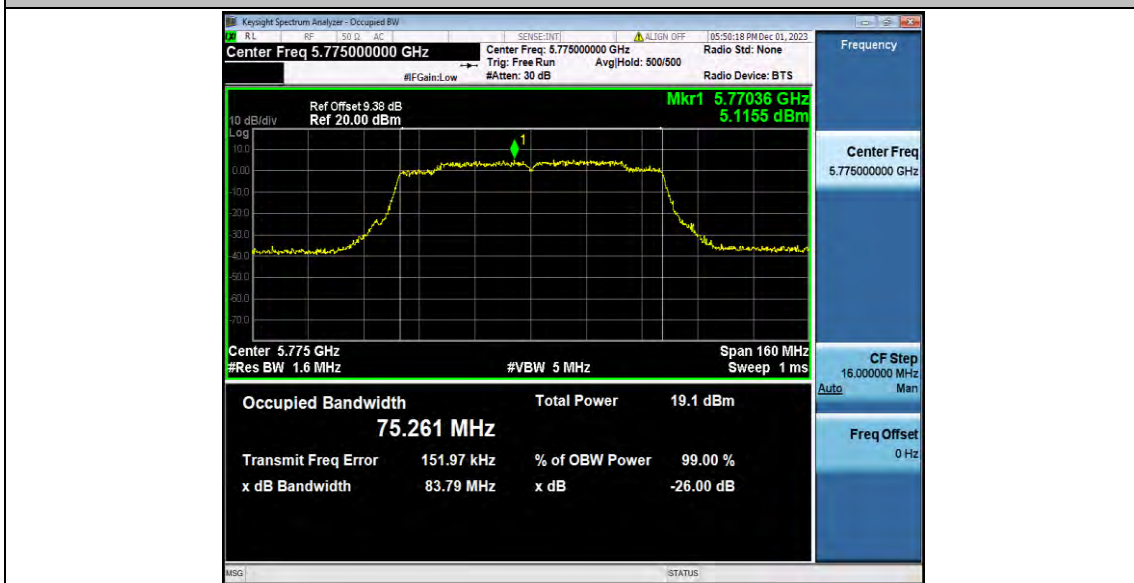
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11AC40SISO_Ant2_5755



11AC40SISO_Ant2_5795



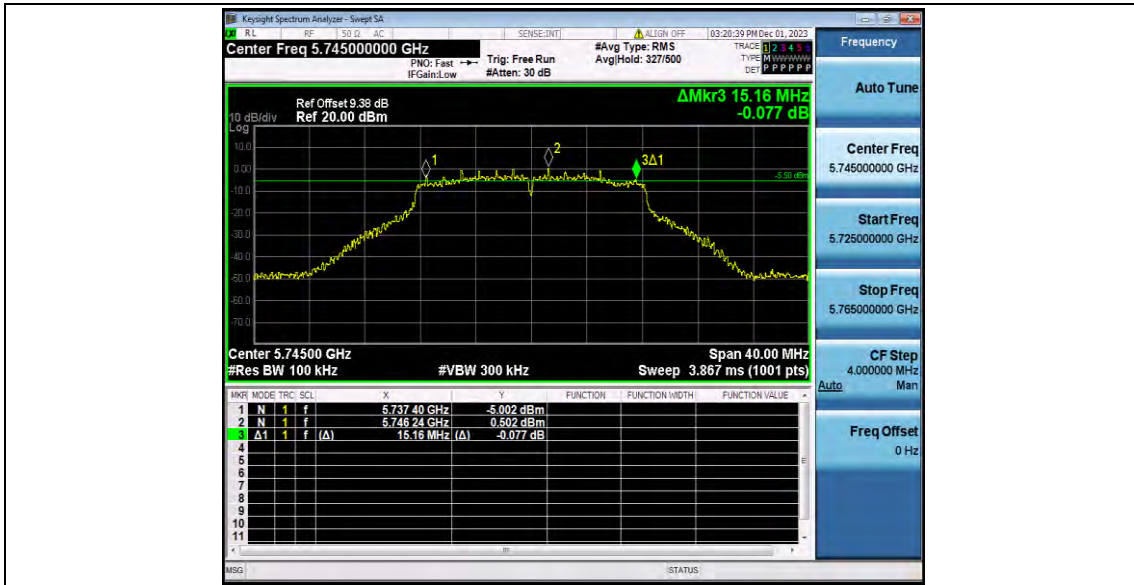
11AC80SISO_Ant2_5775

Appendix E.2: Min emission bandwidth

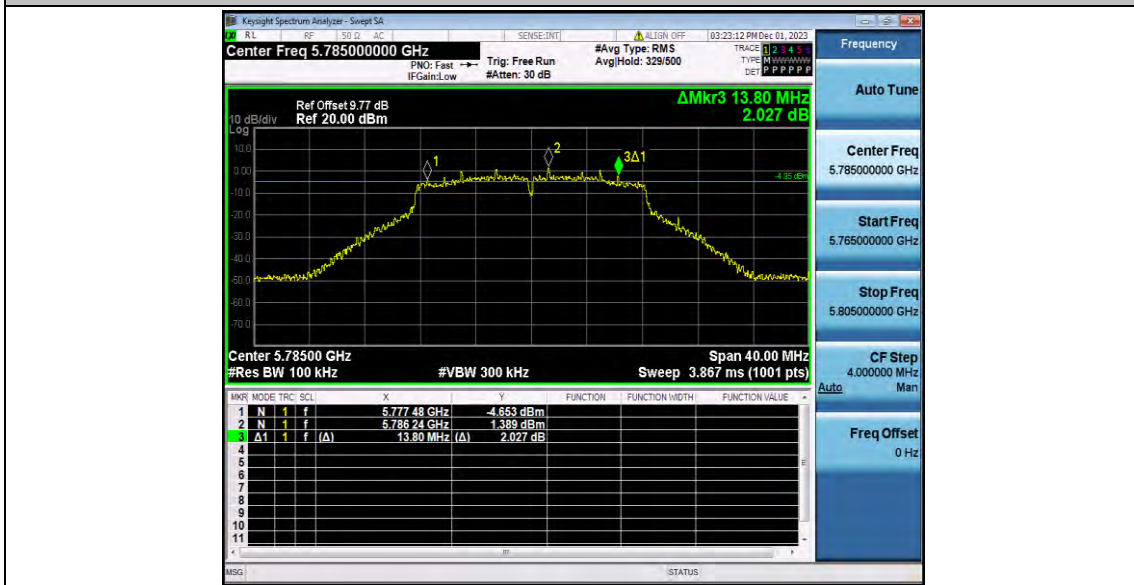
Test Result B4

Test Mode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant2	5745	15.160	5737.400	5752.560	0.5	PASS
		5785	13.800	5777.480	5791.280	0.5	PASS
		5825	13.240	5819.320	5832.560	0.5	PASS
11N20SISO	Ant2	5745	15.040	5737.440	5752.480	0.5	PASS
		5785	13.920	5778.640	5792.560	0.5	PASS
		5825	13.840	5818.680	5832.520	0.5	PASS
11N40SISO	Ant2	5755	35.040	5737.480	5772.520	0.5	PASS
		5795	35.040	5777.480	5812.520	0.5	PASS
11AC20SISO	Ant2	5745	15.120	5737.400	5752.520	0.5	PASS
		5785	12.920	5779.560	5792.480	0.5	PASS
		5825	15.160	5817.400	5832.560	0.5	PASS
11AC40SISO	Ant2	5755	35.040	5737.480	5772.520	0.5	PASS
		5795	35.040	5777.480	5812.520	0.5	PASS
11AC80SISO	Ant2	5775	75.040	5737.400	5812.440	0.5	PASS

Test Graphs B4



11A_Ant2_5745



11A_Ant2_5785



11A_Ant2_5825



11N20SISO_Ant2_5745



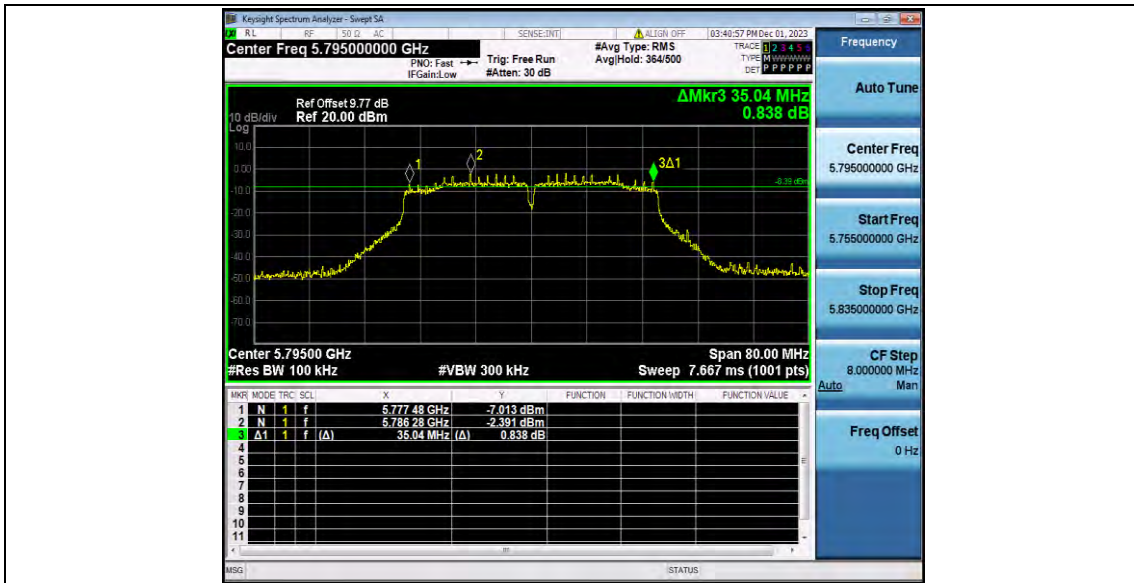
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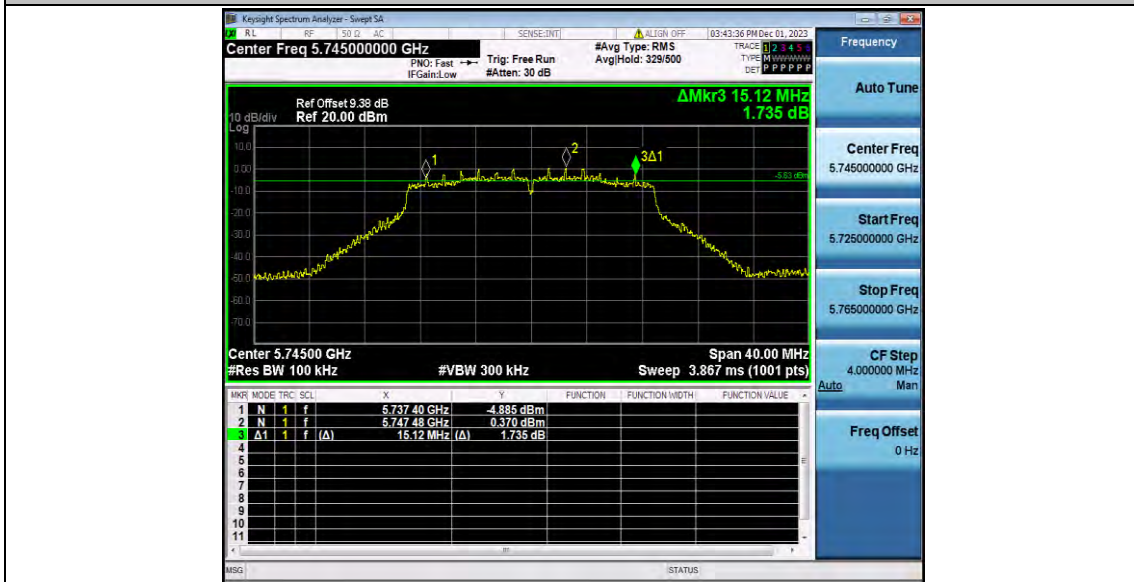
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11N40SISO_Ant2_5755



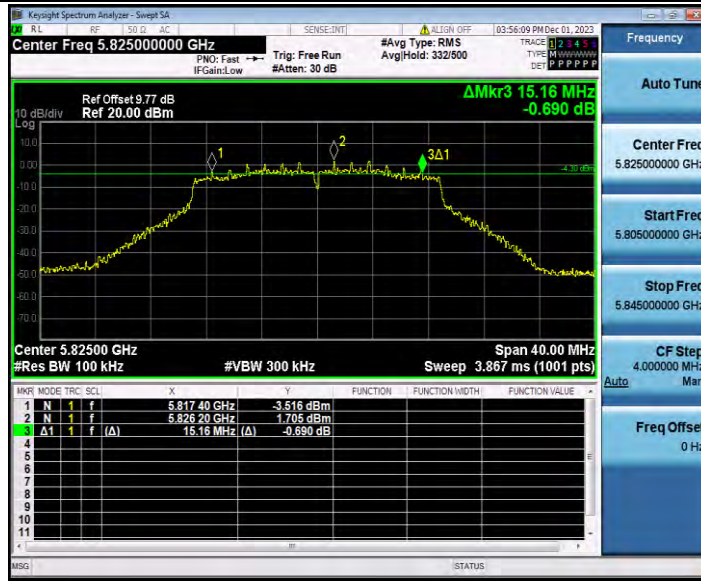
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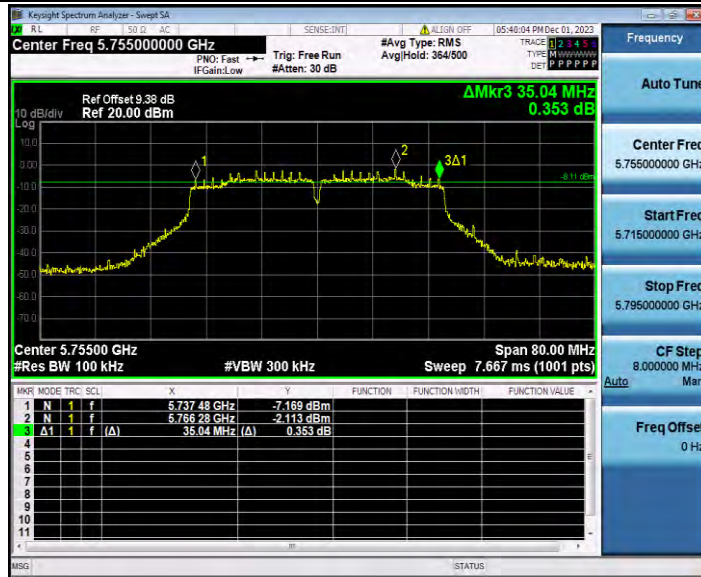
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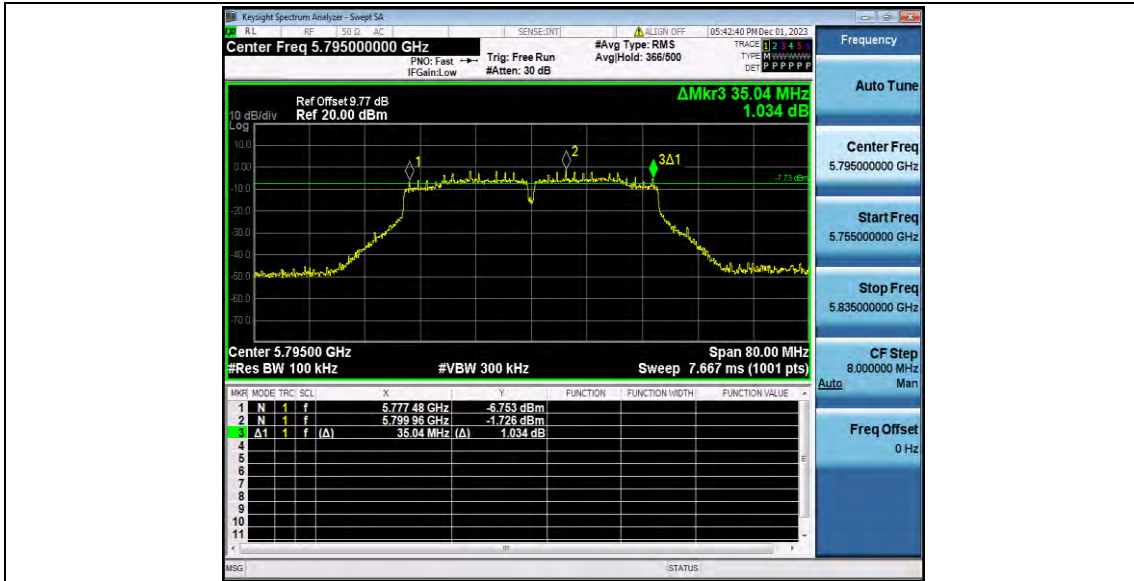
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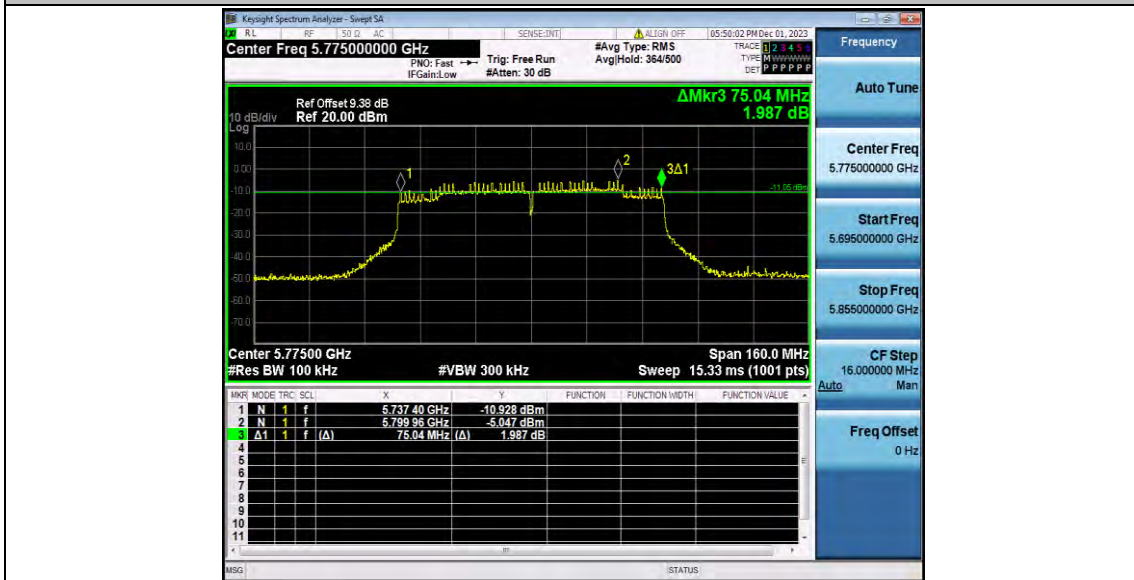
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11AC40SISO_Ant2_5755



11AC40SISO_Ant2_5795



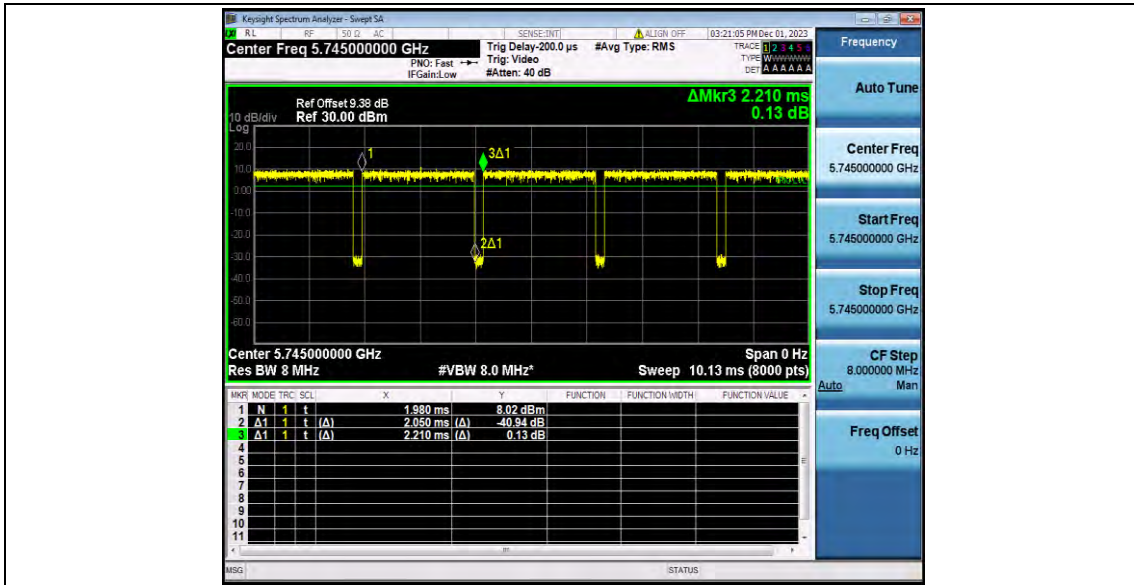
11AC80SISO_Ant2_5775

Appendix E.3: Duty Cycle

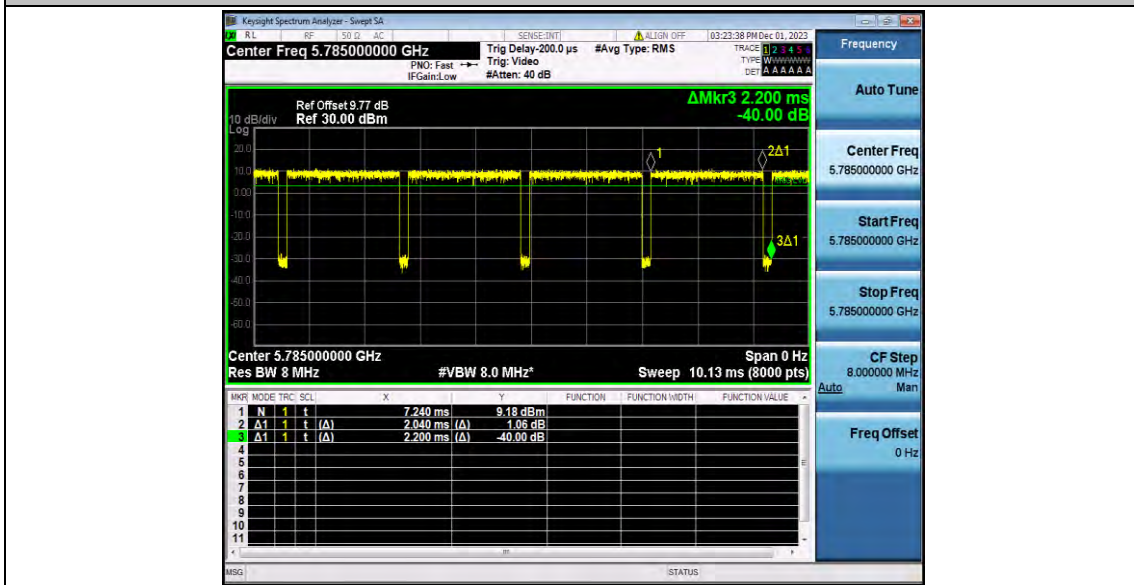
Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant2	5745	2.05	2.21	92.76
		5785	2.04	2.20	92.73
		5825	2.05	2.21	92.76
11N20SISO	Ant2	5745	1.91	2.06	92.72
		5785	1.91	2.06	92.72
		5825	1.90	2.05	92.68
11N40SISO	Ant2	5755	0.94	1.01	93.07
		5795	0.94	1.02	92.16
11AC20SISO	Ant2	5745	1.91	2.06	92.72
		5785	1.91	2.06	92.72
		5825	1.91	2.06	92.72
11AC40SISO	Ant2	5755	0.94	0.98	95.92
		5795	0.95	0.98	96.94
11AC80SISO	Ant2	5775	0.46	0.50	92.00

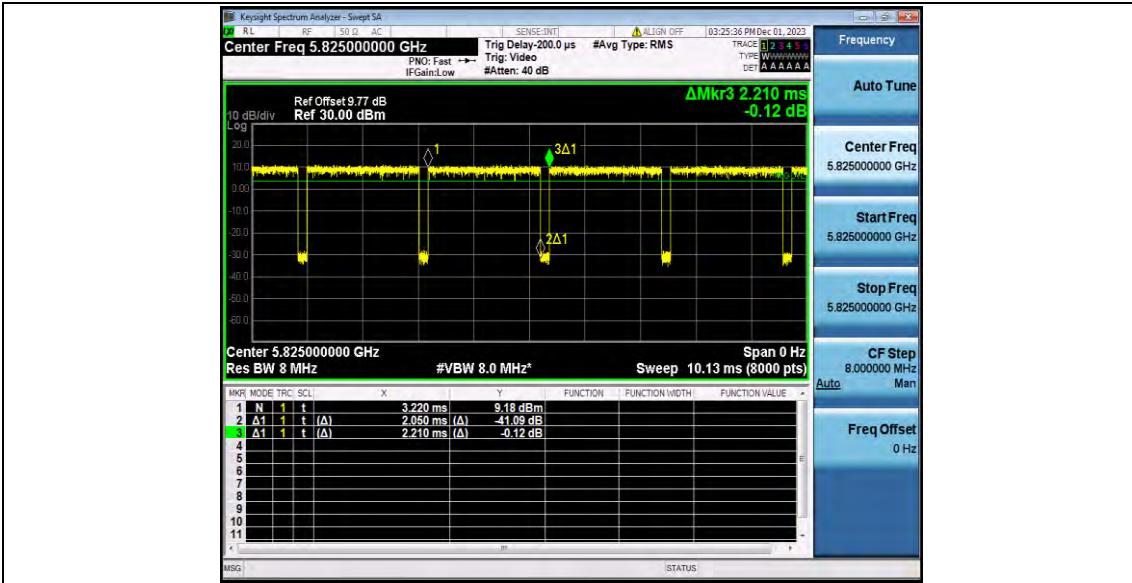
Test Graphs



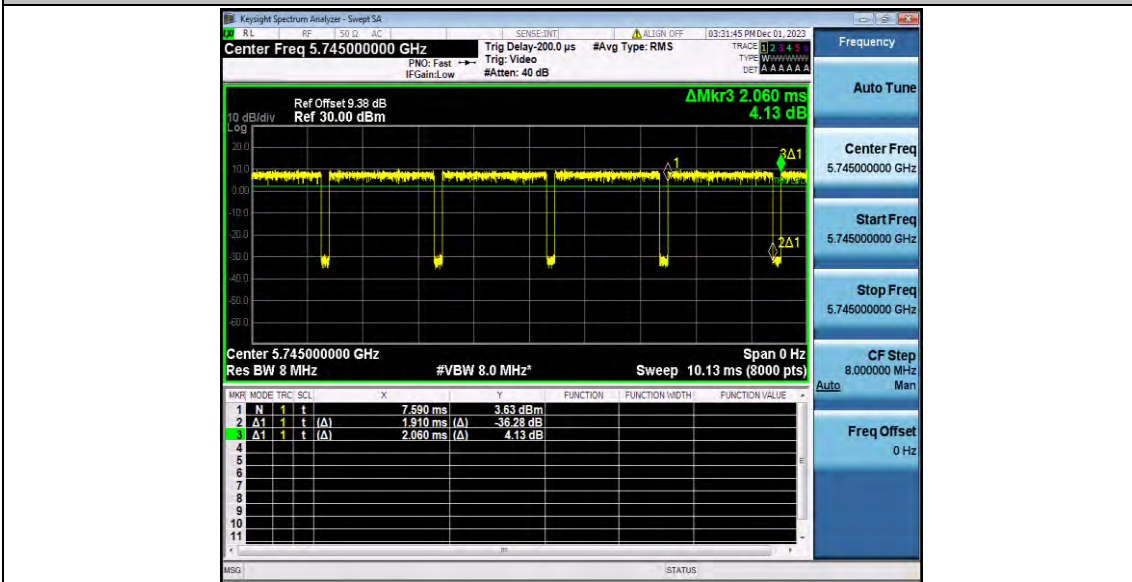
11A_Ant2_5745



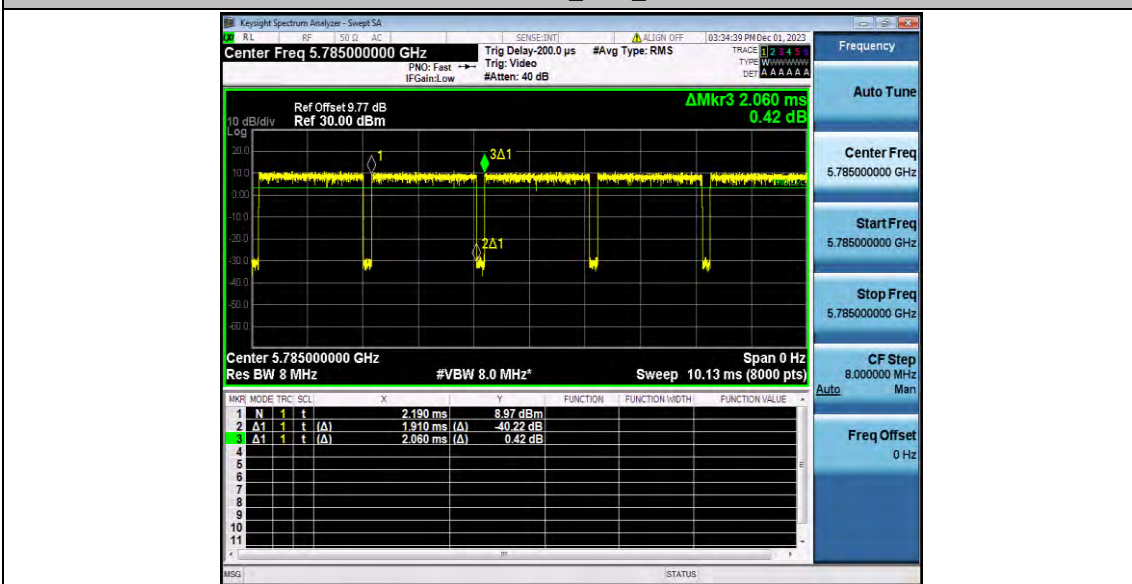
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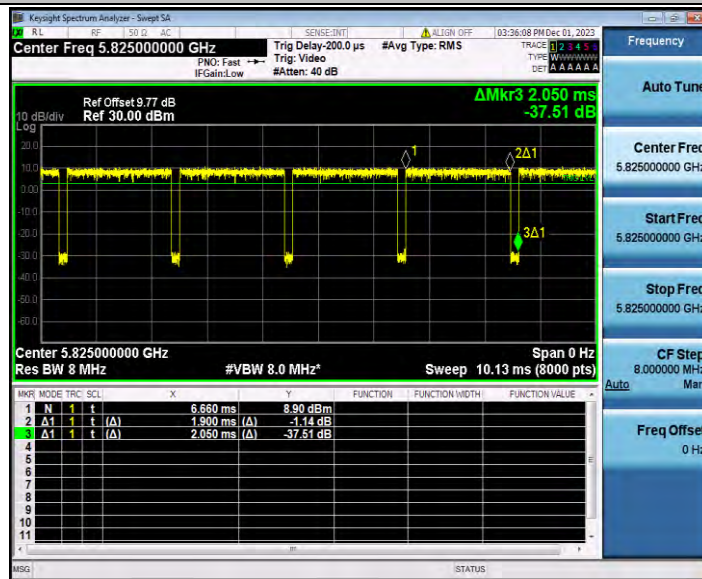
11A_Ant2_5825



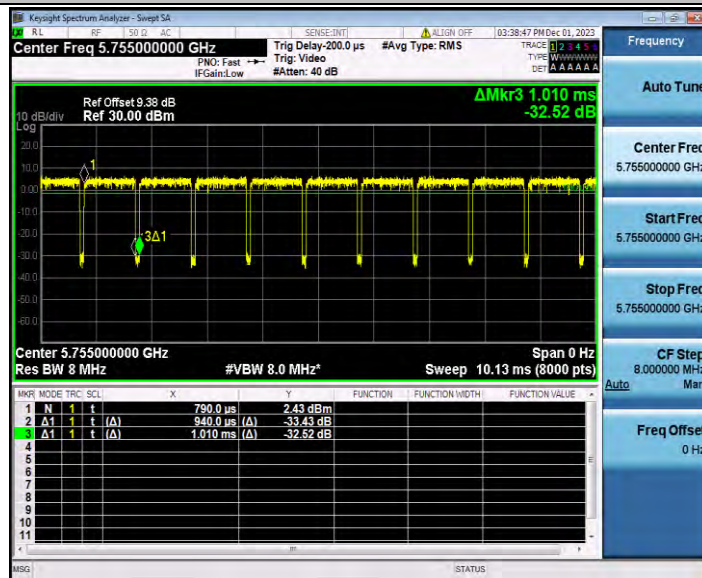
11N20SISO_Ant2_5745



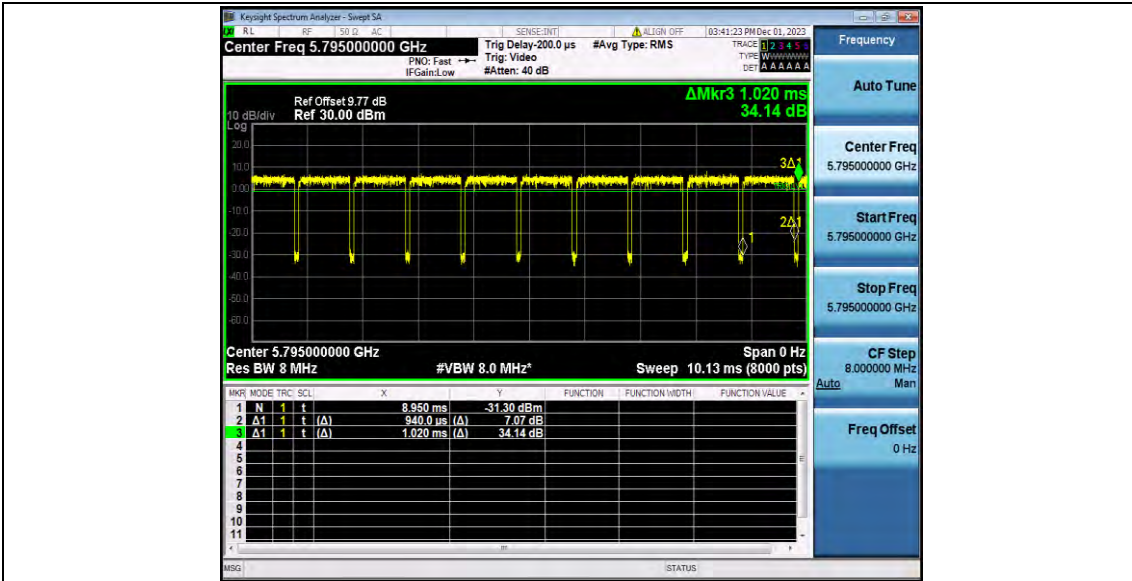
11N20SISO_Ant2_5785



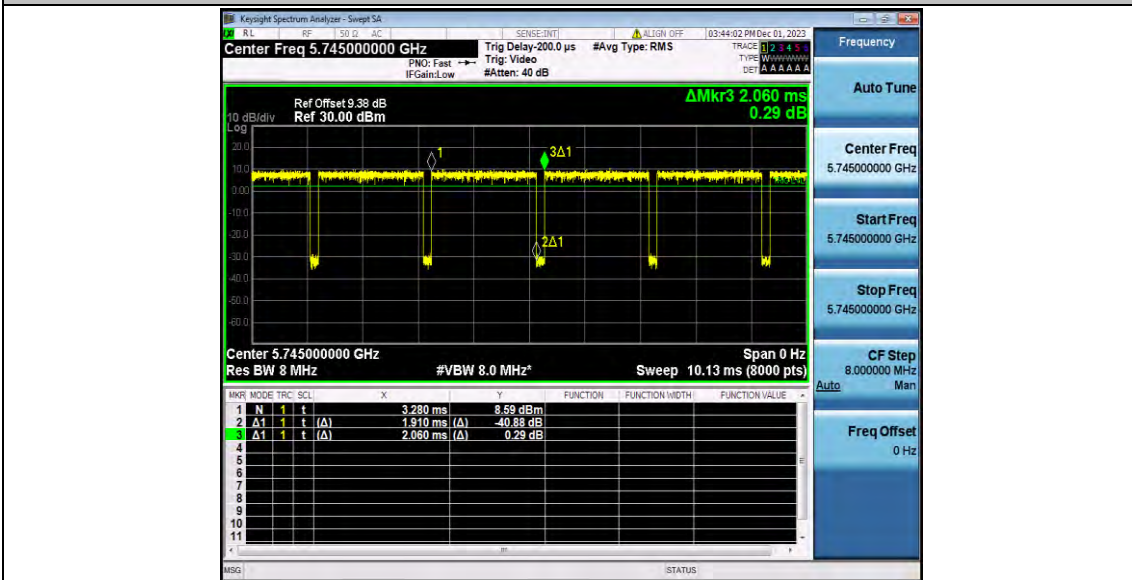
11N20SISO_Ant2_5825



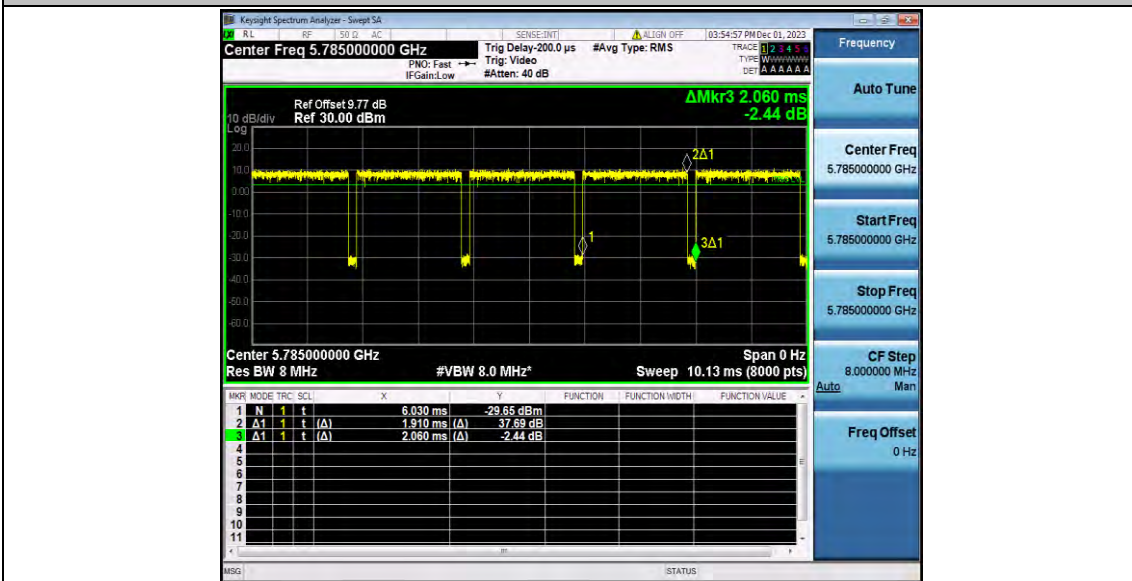
11N40SISO_Ant2_5755



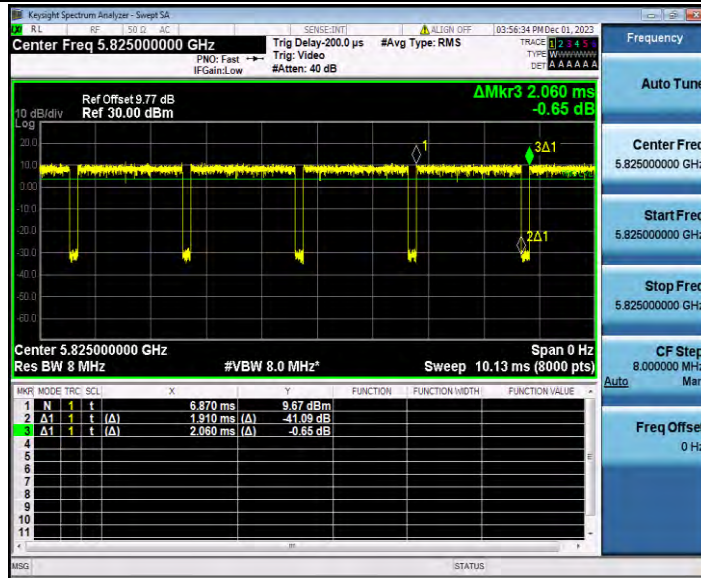
11N40SISO_Ant2_5795



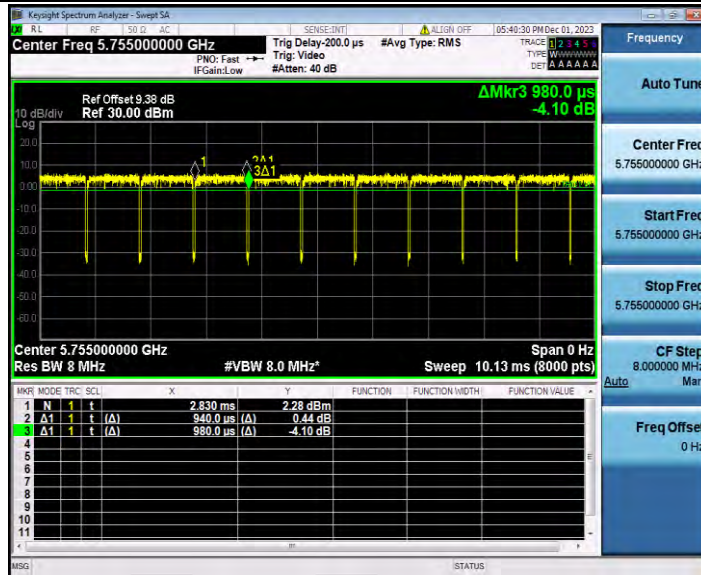
11AC20SISO_Ant2_5745



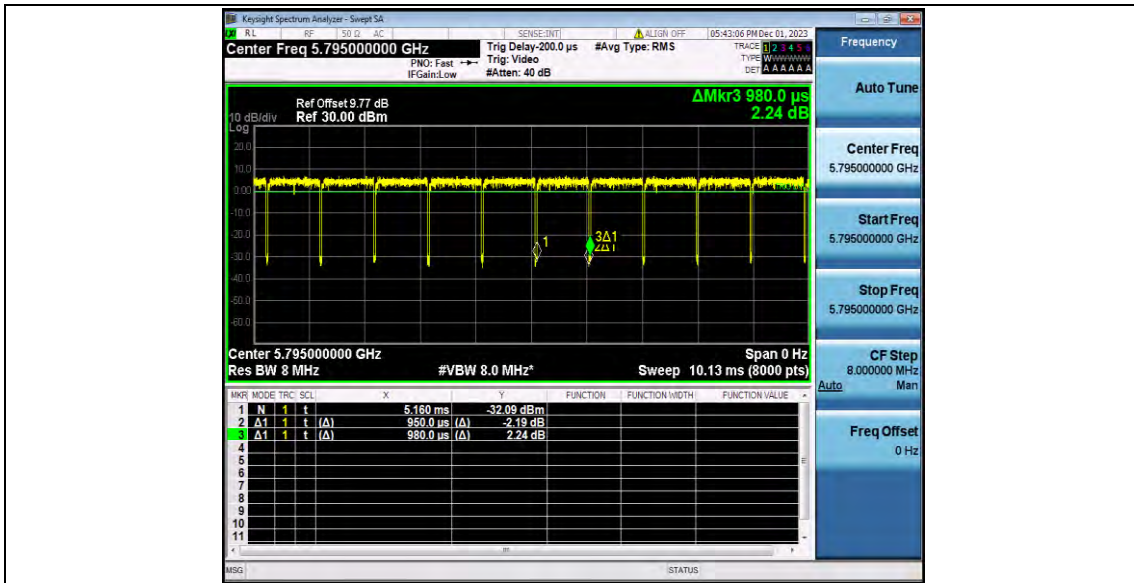
11AC20SISO_Ant2_5785



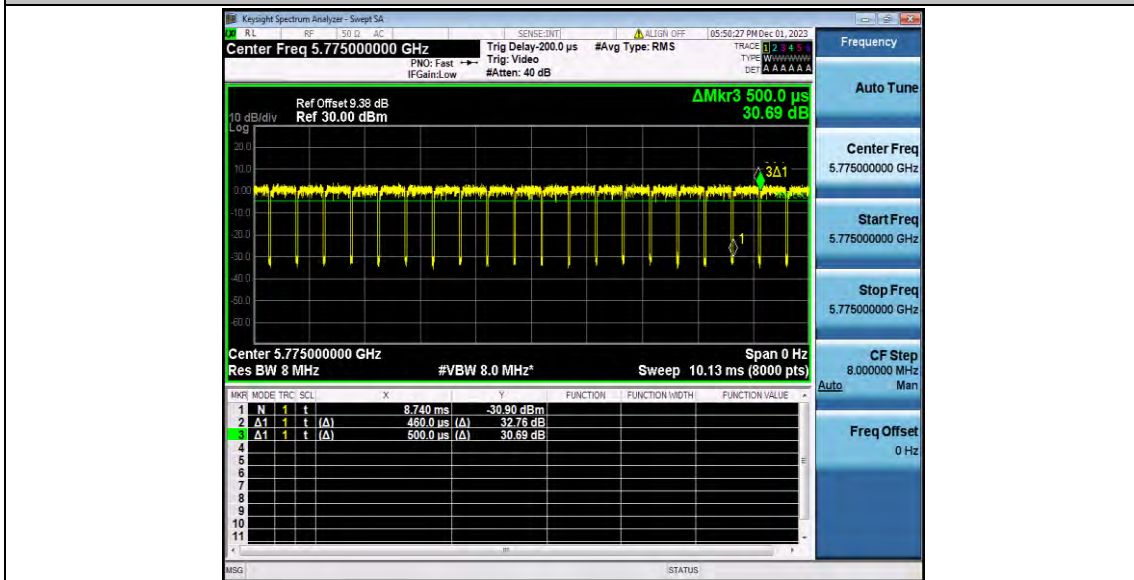
11AC20SISO_Ant2_5825



11AC40SISO_Ant2_5755



11AC40SISO_Ant2_5795



11AC80SISO_Ant2_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	Ant2	5745	9.94	92.76	0.33	10.27	≤30.00	PASS
		5785	10.48	92.73	0.33	10.81	≤30.00	PASS
		5825	10.66	92.76	0.33	10.99	≤30.00	PASS
11N20SISO	Ant2	5745	9.86	92.72	0.33	10.19	≤30.00	PASS
		5785	10.38	92.72	0.33	10.71	≤30.00	PASS
		5825	10.58	92.68	0.33	10.91	≤30.00	PASS
11N40SISO	Ant2	5755	9.89	93.07	0.31	10.20	≤30.00	PASS
		5795	10.24	92.16	0.35	10.59	≤30.00	PASS
11AC20SISO	Ant2	5745	9.67	92.72	0.33	10.00	≤30.00	PASS
		5785	10.65	92.72	0.33	10.98	≤30.00	PASS
		5825	11.18	92.72	0.33	11.51	≤30.00	PASS
11AC40SISO	Ant2	5755	10.26	95.92	0.18	10.44	≤30.00	PASS
		5795	10.78	96.94	0.13	10.91	≤30.00	PASS
11AC80SISO	Ant2	5775	9.98	92.00	0.36	10.34	≤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	Ant2	5745	-3.24	≤30.00	PASS
		5785	-2.46	≤30.00	PASS
		5825	-2.3	≤30.00	PASS
11N20SISO	Ant2	5745	-3.58	≤30.00	PASS
		5785	-2.73	≤30.00	PASS
		5825	-2.38	≤30.00	PASS
11N40SISO	Ant2	5755	-6.64	≤30.00	PASS
		5795	-6.16	≤30.00	PASS
11AC20SISO	Ant2	5745	-3.51	≤30.00	PASS
		5785	-2.65	≤30.00	PASS
		5825	-2.3	≤30.00	PASS
11AC40SISO	Ant2	5755	-6.41	≤30.00	PASS
		5795	-5.83	≤30.00	PASS
11AC80SISO	Ant2	5775	-9.29	≤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_Ant2_5745



11A_Ant2_5785



11A_Ant2_5825



11N20SISO_Ant2_5745



11N20SISO_Ant2_5785



11N20SISO_Ant2_5825



11N40SISO_Ant2_5755



11N40SISO_Ant2_5795



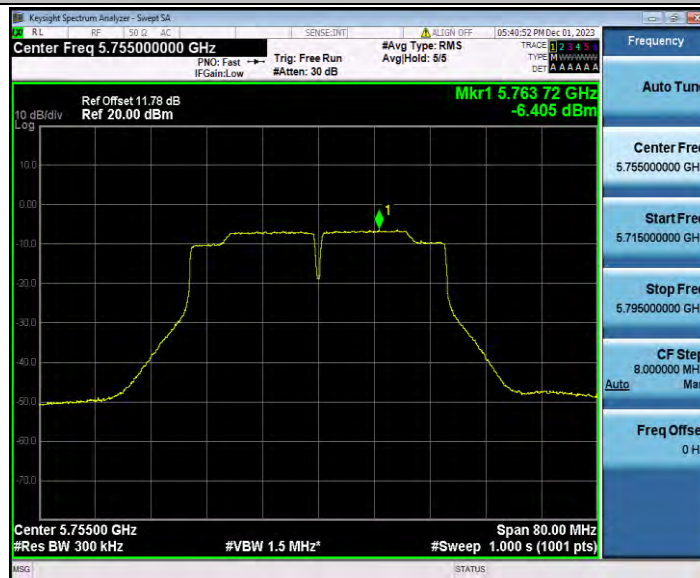
11AC20SISO_Ant2_5745



11AC20SISO_Ant2_5785



11AC20SISO_Ant2_5825



11AC40SISO_Ant2_5755



11AC40SISO_Ant2_5795



11AC80SISO_Ant2_5775

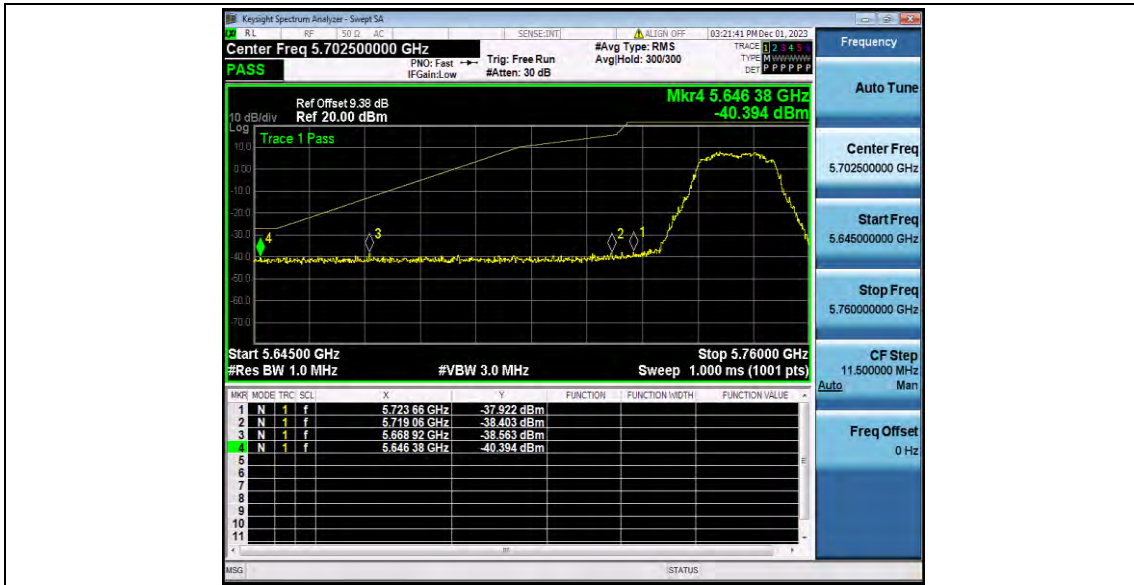
Appendix E.6: Band edge measurements

Test Result B4

TestMode	Antenna	ChName	Frequency[M Hz]	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant2	Low	5745	5650~5700	-38.56	≤-13.00	PASS
				5700~5720	-38.4	≤15.34	PASS
				5720~5725	-37.92	≤23.94	PASS
				5760~5650	-40.39	≤-27	PASS
		High	5825	5850~5855	-38.56	≤23.49	PASS
				5855~5875	-38.42	≤13.12	PASS
				5875~5925	-38.3	≤-20.06	PASS
5925~5935	-38.6	≤-27	PASS				
11N20SIS O	Ant2	Low	5745	5650~5700	-38.31	≤-8.57	PASS
				5700~5720	-38.07	≤14.69	PASS
				5720~5725	-38.09	≤26.30	PASS
				5760~5650	-38.77	≤-27	PASS
		High	5825	5850~5855	-38.66	≤16.41	PASS
				5855~5875	-37.76	≤11.23	PASS
				5875~5925	-37.46	≤-2.38	PASS
5925~5935	-39.18	≤-27	PASS				
11N40SIS O	Ant2	Low	5755	5650~5700	-38.41	≤9.46	PASS
				5700~5720	-36.94	≤15.50	PASS
				5720~5725	-32.39	≤25.59	PASS
				5780~5650	-39.39	≤-27	PASS
		High	5795	5850~5855	-37.76	≤19.80	PASS
				5855~5875	-37.65	≤13.18	PASS
				5875~5925	-37.76	≤-22.28	PASS
5925~5935	-38.5	≤-27	PASS				
11AC20SI SO	Ant2	Low	5745	5650~5700	-39.59	≤4.02	PASS
				5700~5720	-38.87	≤14.24	PASS
				5720~5725	-37.35	≤18.18	PASS
				5760~5650	-40.32	≤-27	PASS
		High	5825	5850~5855	-38.87	≤21.64	PASS
				5855~5875	-38.11	≤12.44	PASS
				5875~5925	-38.3	≤-13.07	PASS
5925~5935	-39.17	≤-27	PASS				
11AC40SI SO	Ant2	Low	5755	5650~5700	-37.77	≤9.36	PASS
				5700~5720	-32.58	≤15.35	PASS
				5720~5725	-35.02	≤19.12	PASS

				5780~5650	-40.55	≤-27	PASS
		High	5795	5850~5855	-38.7	≤22.05	PASS
				5855~5875	-37.33	≤10.09	PASS
				5875~5925	-38.39	≤-16.79	PASS
				5925~5935	-38.5	≤-27	PASS
11AC80SI SO	Ant2	Low	5775	5650~5700	-38.03	≤4.40	PASS
				5700~5720	-38.37	≤15.48	PASS
				5720~5725	-34.44	≤26.95	PASS
				5800~5650	-38.83	≤-27	PASS
				5850~5855	-38.08	≤25.07	PASS
		High	5775	5855~5875	-37.25	≤11.27	PASS
				5875~5925	-38.15	≤7.00	PASS
				5925~5935	-38.97	≤-27	PASS

Test Graphs B4



11A_Ant2_Low_5745



11A_Ant2_High_5825



11N20SISO_Ant2_Low_5745



11N20SISO_Ant2_High_5825



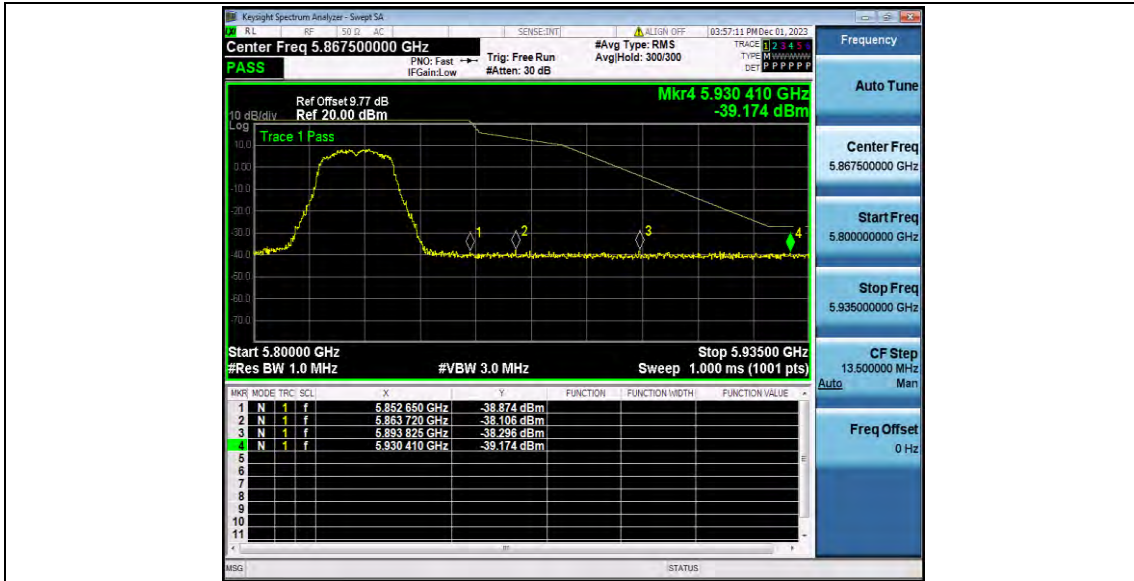
11N40SISO_Ant2_Low_5755



11N40SISO_Ant2_High_5795



11AC20SISO_Ant2_Low_5745



11AC20SISO_Ant2_High_5825



11AC40SISO_Ant2_Low_5755



11AC40SISO_Ant2_High_5795



11AC80SISO_Ant2_Low_5775



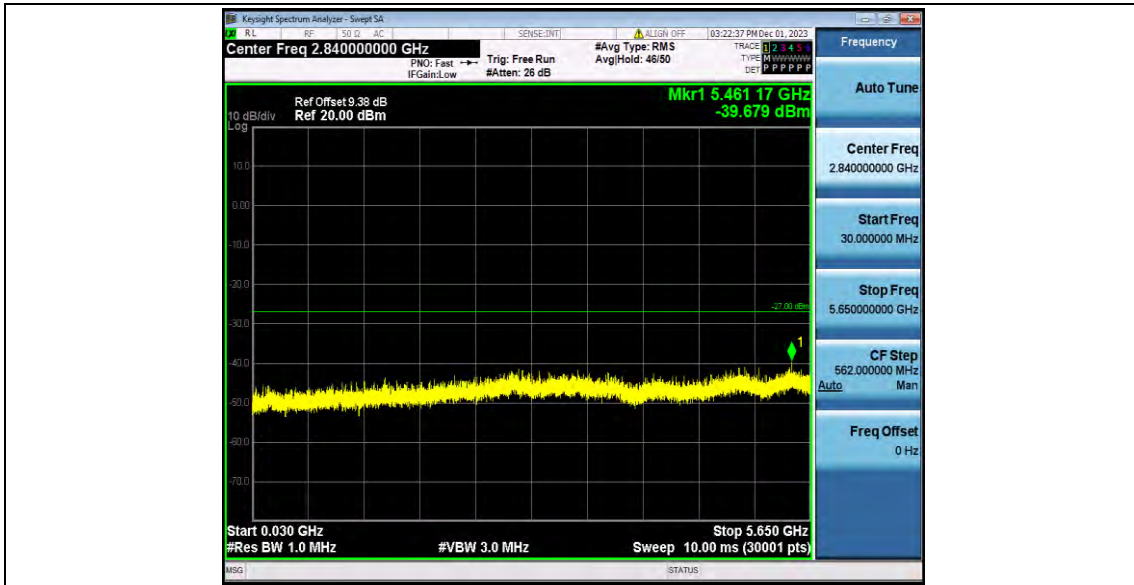
11AC80SISO_Ant2_High_5775

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	Ant2	5745	30~5650	5461.17	-39.68	≤-27	PASS
			5925~40000	24246.9	-32.39	≤-27	PASS
		5785	30~5650	5393.73	-39.1	≤-27	PASS
			5925~40000	24209.67	-32.02	≤-27	PASS
		5825	30~5650	5434	-40.36	≤-27	PASS
			5925~40000	23580.23	-31.46	≤-27	PASS
11N20SISO	Ant2	5745	30~5650	5521.68	-40.59	≤-27	PASS
			5925~40000	25165.77	-32.46	≤-27	PASS
		5785	30~5650	5357.2	-40.17	≤-27	PASS
			5925~40000	25996.83	-32.02	≤-27	PASS
		5825	30~5650	5463.79	-40.64	≤-27	PASS
			5925~40000	24831.38	-32.17	≤-27	PASS
11N40SISO	Ant2	5755	30~5650	5517.37	-39.8	≤-27	PASS
			5925~40000	25132.76	-32.5	≤-27	PASS
		5795	30~5650	4889.99	-40.5	≤-27	PASS
			5925~40000	26765.37	-32.49	≤-27	PASS
11AC20SISO	Ant2	5745	30~5650	5492.27	-41.14	≤-27	PASS
			5925~40000	26947.31	-32.71	≤-27	PASS
		5785	30~5650	5466.41	-41.02	≤-27	PASS
			5925~40000	25111.68	-32.29	≤-27	PASS
		5825	30~5650	3210.17	-40.86	≤-27	PASS
			5925~40000	24803.28	-32.44	≤-27	PASS
11AC40SISO	Ant2	5755	30~5650	5596.05	-40.99	≤-27	PASS
			5925~40000	24313.64	-31.96	≤-27	PASS
		5795	30~5650	3092.15	-41.26	≤-27	PASS
			5925~40000	24215.29	-31.63	≤-27	PASS
11AC80SISO	Ant2	5775	30~5650	4982.72	-40.36	≤-27	PASS
			5925~40000	25566.9	-32.32	≤-27	PASS

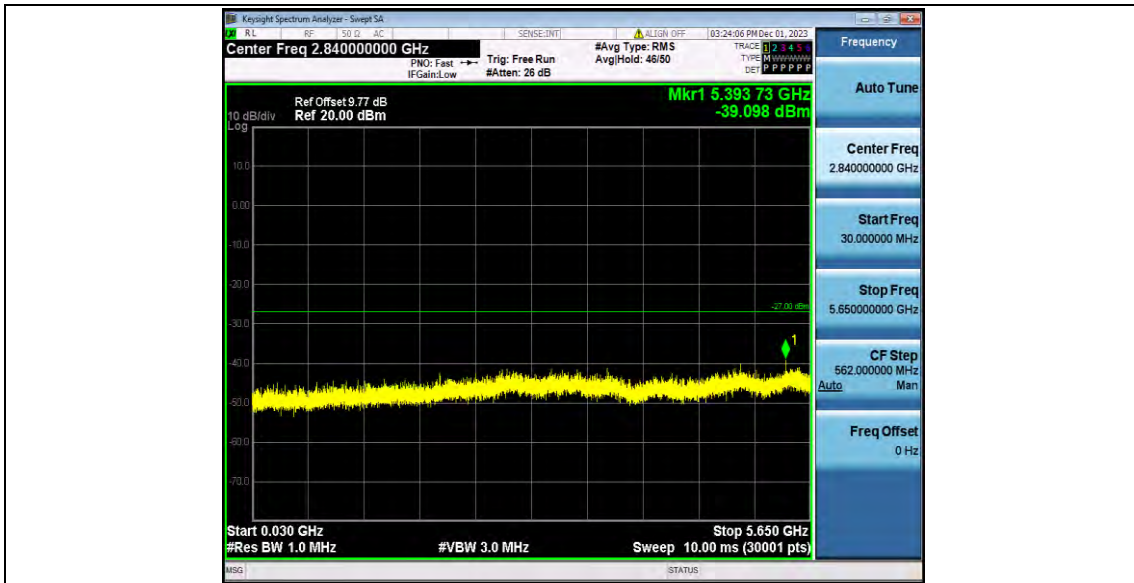
Test Graphs



11A_Ant2_5745_30~5650



11A_Ant2_5745_5925~40000



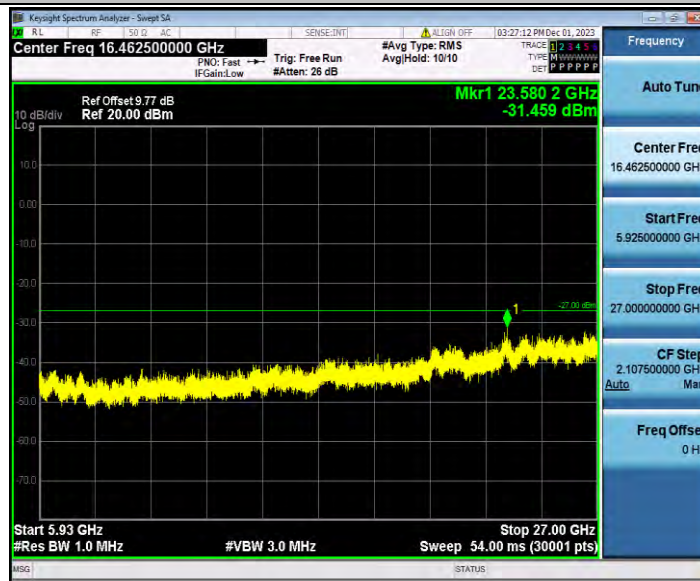
11A_Ant2_5785_30~5650



11A_Ant2_5785_5925~40000



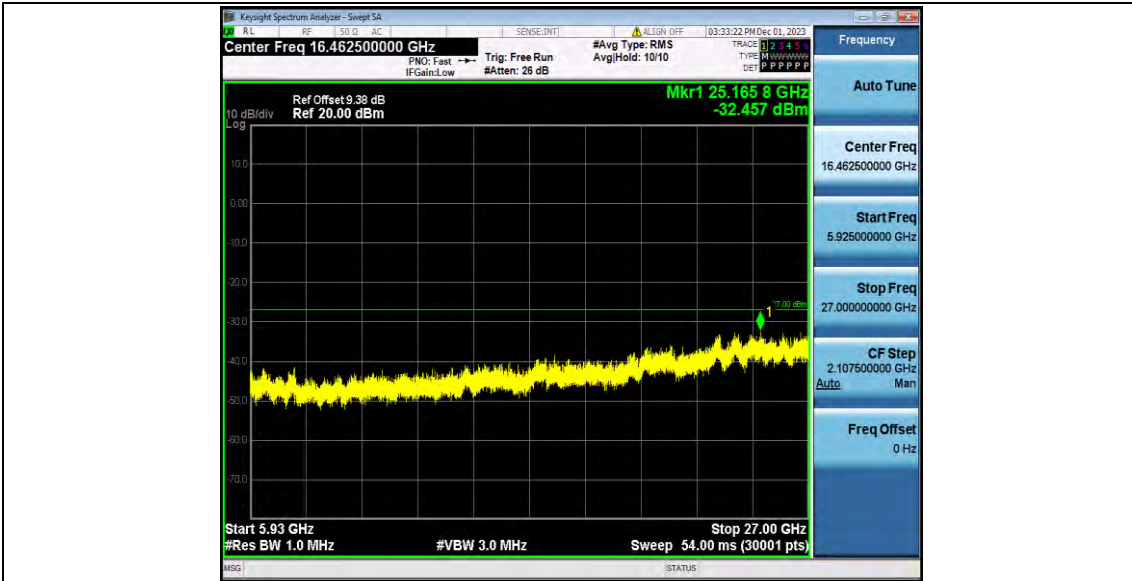
11A_Ant2_5825_30~5650



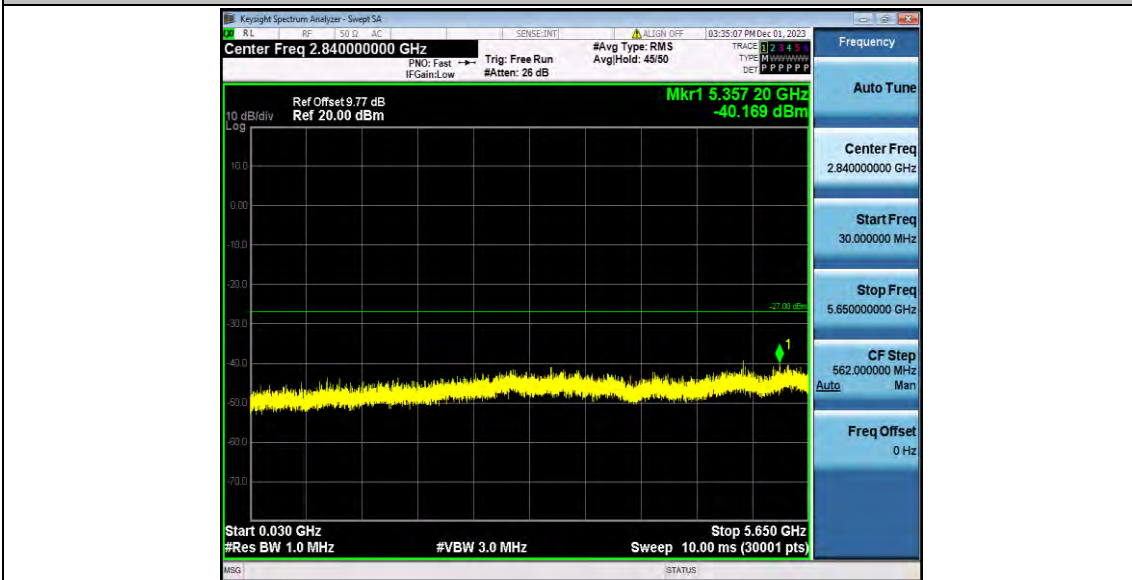
11A_Ant2_5825_5925~40000



11N20SISO_Ant2_5745_30~5650



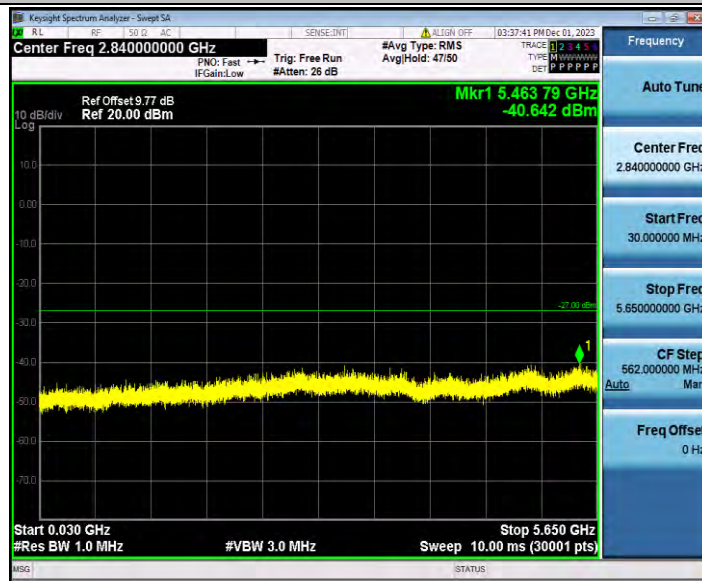
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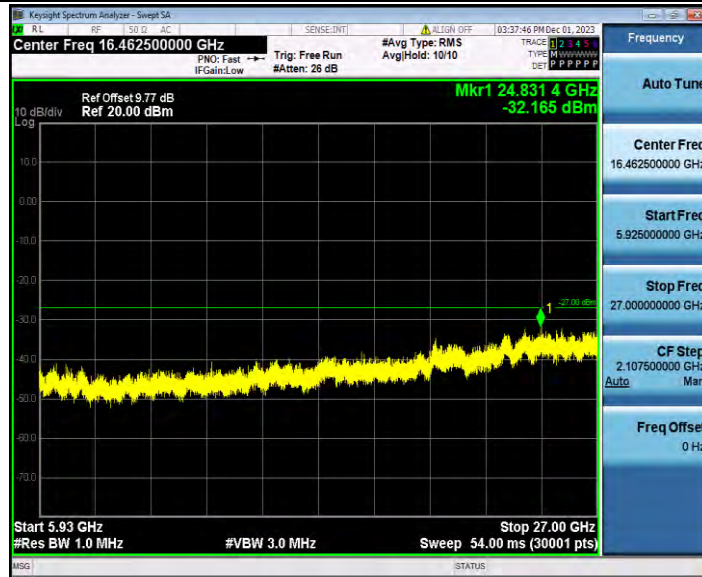
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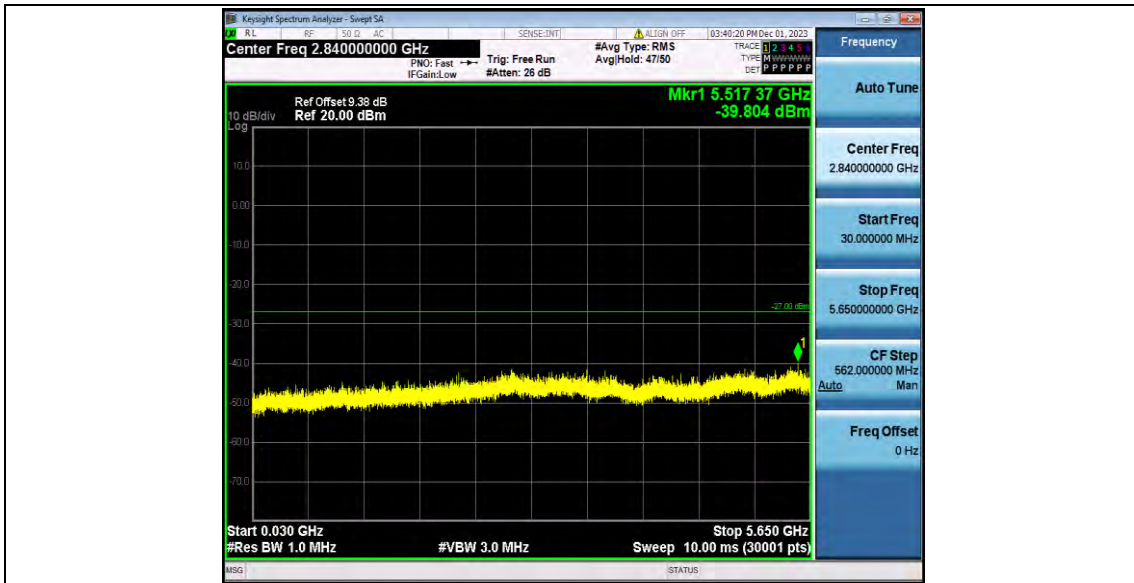
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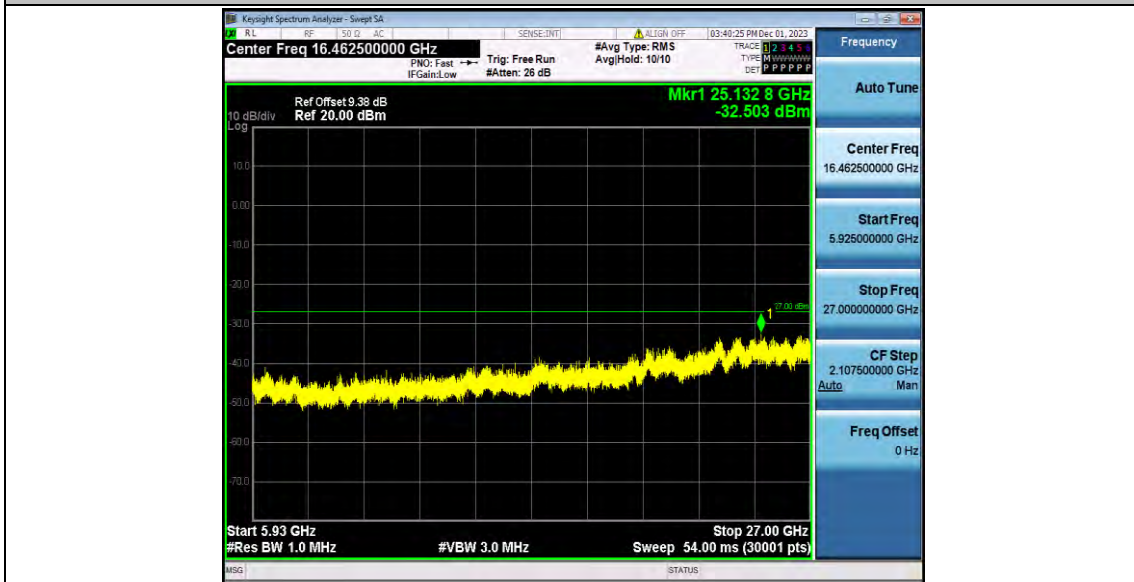
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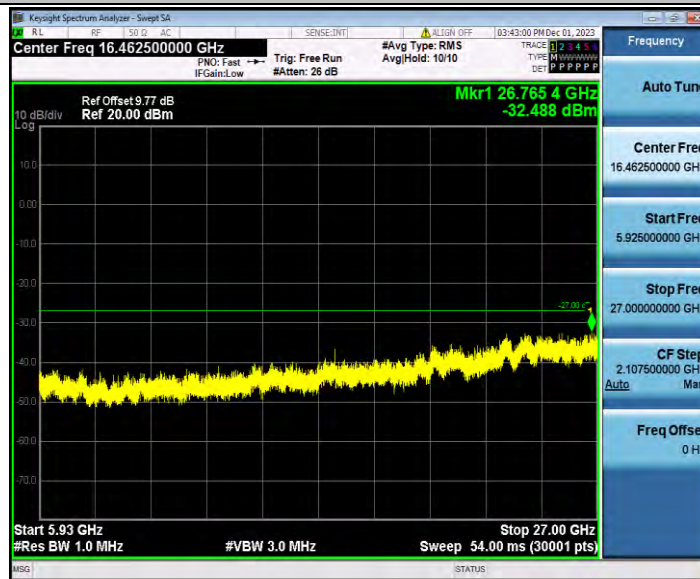
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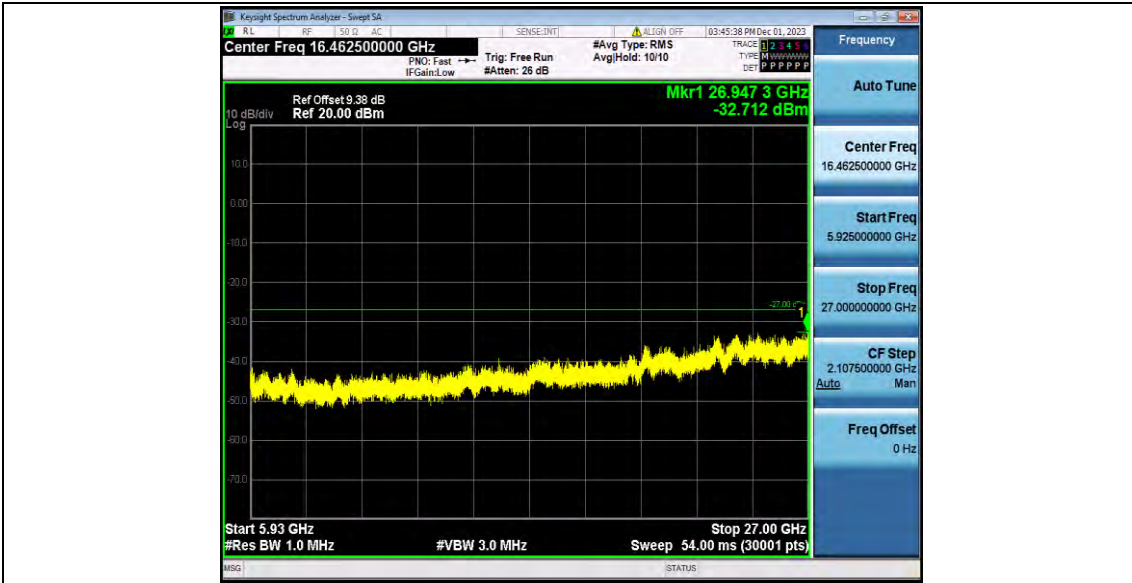
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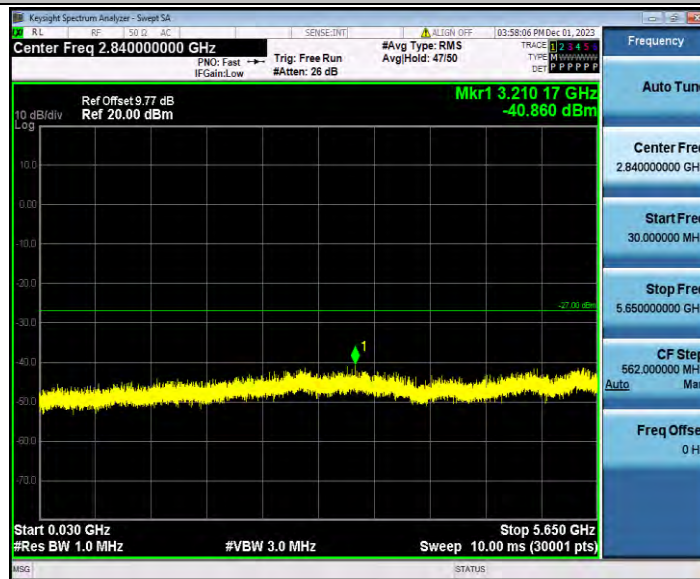
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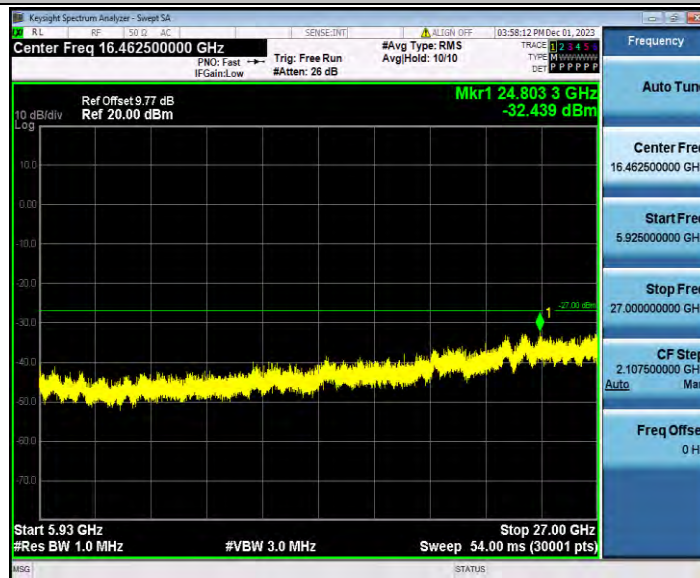
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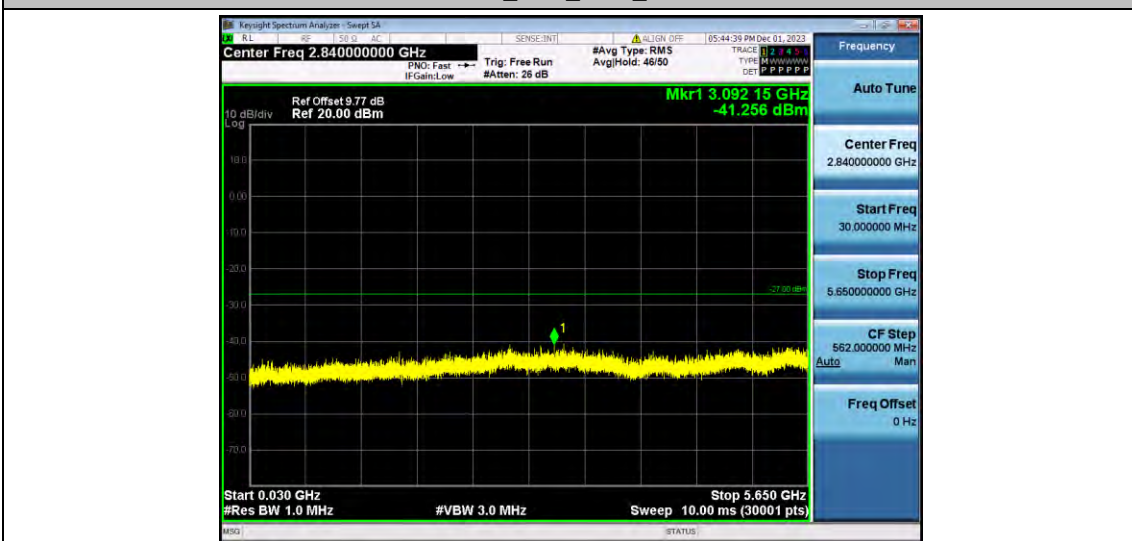
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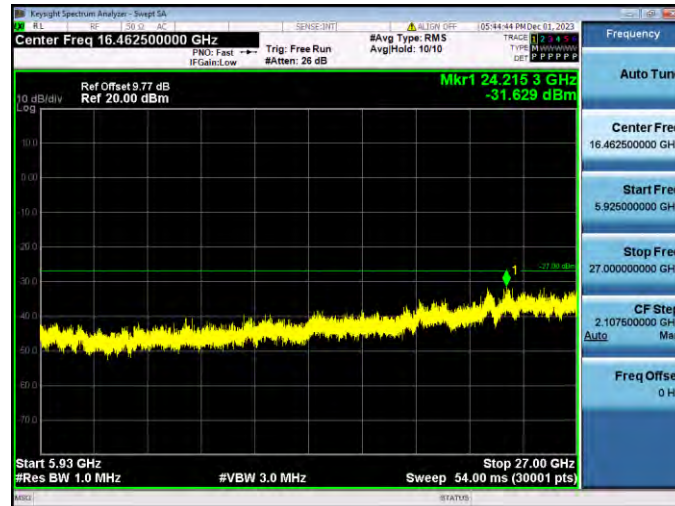
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11AC40SISO_Ant2_5795_5925~4000



11AC80SISO_Ant2_5775_30~5650



11AC80SISO_Ant2_5775_5925~4000