

Case No. : <u>GTS20230525016-1-11</u>
Ambient Condition: <u>23</u> °C, <u>48</u> %RH, Atmos100.1Kpa,
Test Date: <u>2023.6.13</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	Ant2	5745	16.870	5736.551	5753.421	---	---
		5785	16.952	5776.506	5793.458	---	---
		5825	17.093	5816.411	5833.504	---	---
11N20SISO	Ant2	5745	18.037	5735.970	5754.007	---	---
		5785	18.047	5775.958	5794.005	---	---
		5825	18.158	5815.897	5834.055	---	---
11N40SISO	Ant2	5755	36.300	5736.920	5773.220	---	---
		5795	36.290	5776.909	5813.199	---	---
11AC20SISO	Ant2	5745	18.056	5735.975	5754.031	---	---
		5785	18.093	5775.941	5794.034	---	---
		5825	18.134	5815.903	5834.037	---	---
11AC40SISO	Ant2	5755	36.349	5736.911	5773.260	---	---
		5795	36.293	5776.888	5813.181	---	---
11AC80SISO	Ant2	5775	75.622	5737.268	5812.890	---	---

Test Graphs



11A_Ant2_5745



11A_Ant2_5785



11A_Ant2_5825



11N20SISO_Ant2_5745



11N20SISO_Ant2_5785



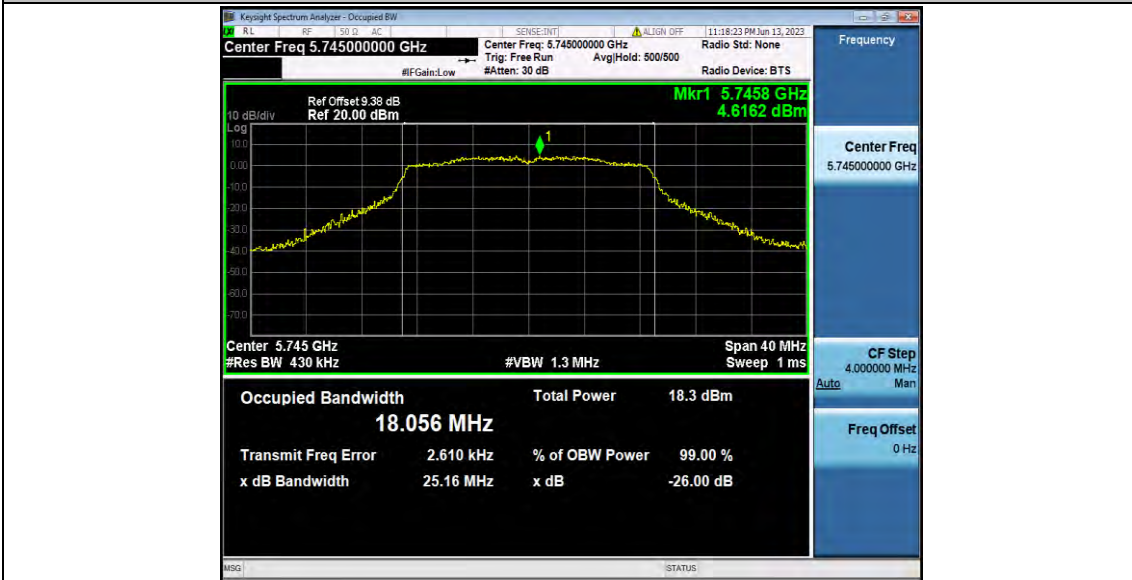
11N20SISO_Ant2_5825



11N40SISO_Ant2_5755



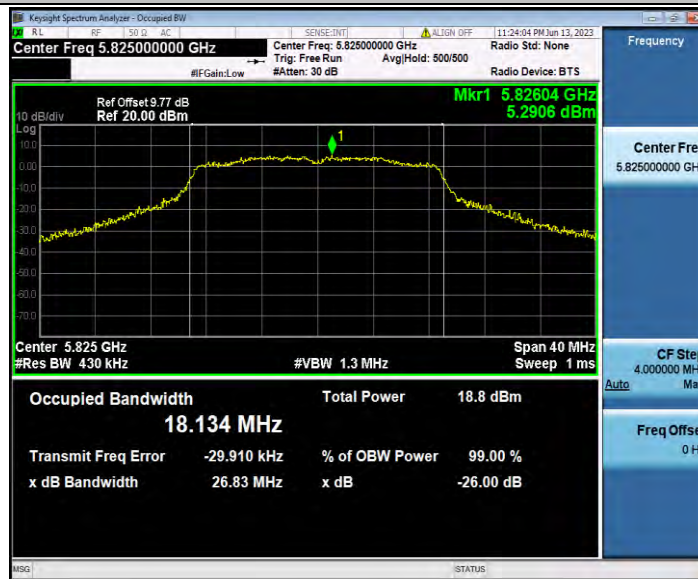
11N40SISO_Ant2_5795



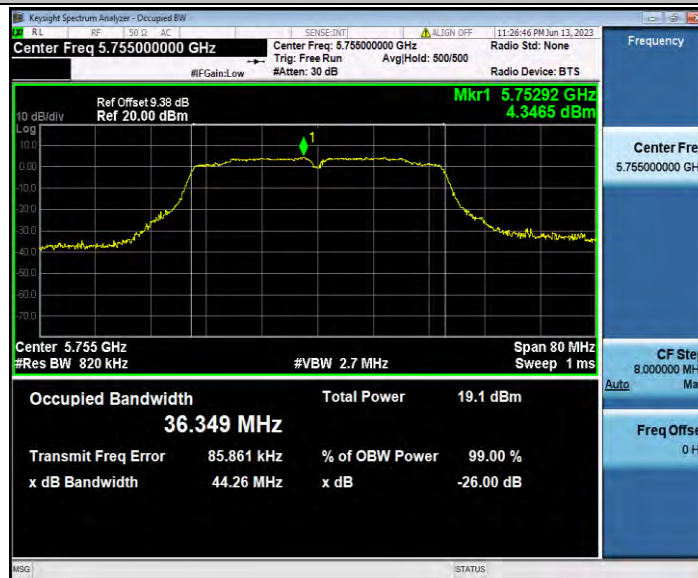
11AC20SISO_Ant2_5745



11AC20SISO_Ant2_5785



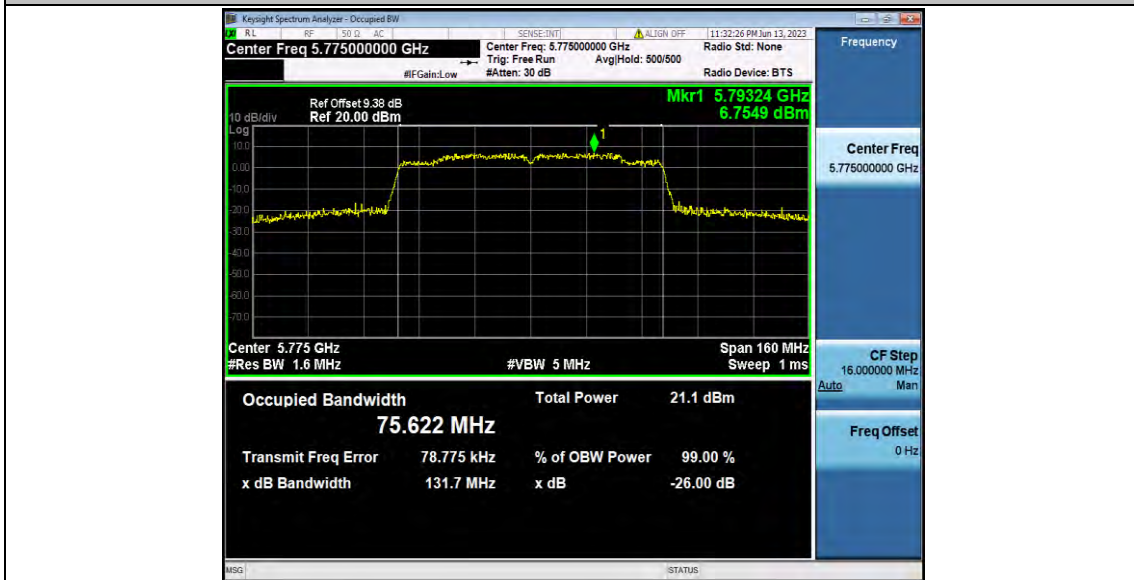
11AC20SISO_Ant2_5825



11AC40SISO_Ant2_5755



11AC40SISO_Ant2_5795



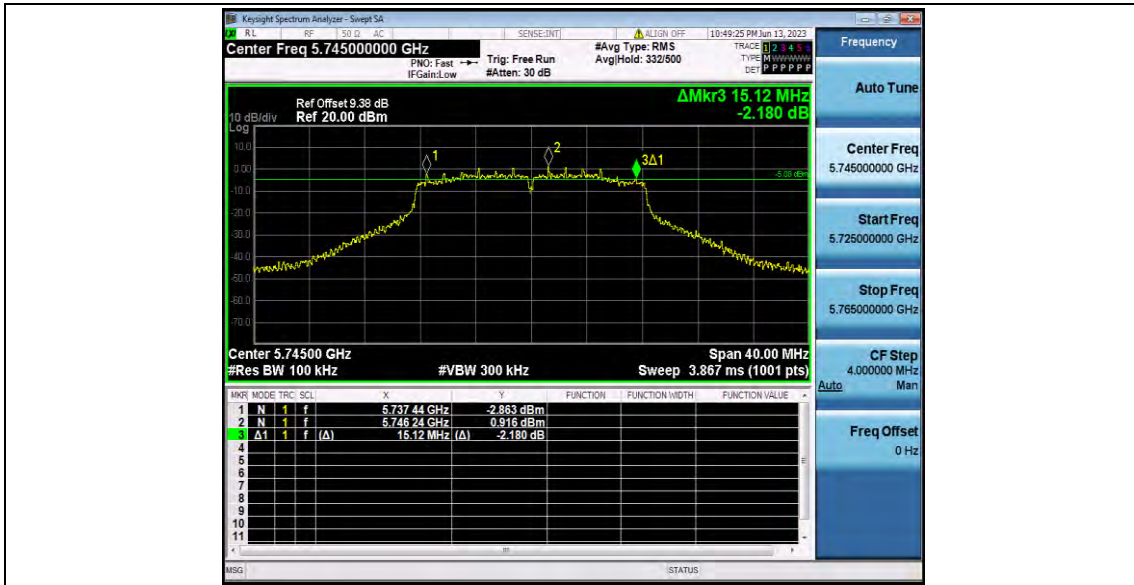
11AC80SISO_Ant2_5775

Appendix E.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	15.120	5737.440	5752.560	0.5	PASS
		5785	13.880	5778.640	5792.520	0.5	PASS
		5825	15.040	5817.440	5832.480	0.5	PASS
11N20SISO	Ant2	5745	15.080	5737.440	5752.520	0.5	PASS
		5785	15.040	5777.440	5792.480	0.5	PASS
		5825	15.000	5817.520	5832.520	0.5	PASS
11N40SISO	Ant2	5755	35.120	5737.400	5772.520	0.5	PASS
		5795	35.120	5777.400	5812.520	0.5	PASS
11AC20SISO	Ant2	5745	15.040	5737.480	5752.520	0.5	PASS
		5785	15.040	5777.480	5792.520	0.5	PASS
		5825	13.920	5818.640	5832.560	0.5	PASS
11AC40SISO	Ant2	5755	35.040	5737.480	5772.520	0.5	PASS
		5795	35.120	5777.400	5812.520	0.5	PASS
11AC80SISO	Ant2	5775	75.200	5737.400	5812.600	0.5	PASS

Test Graphs B4



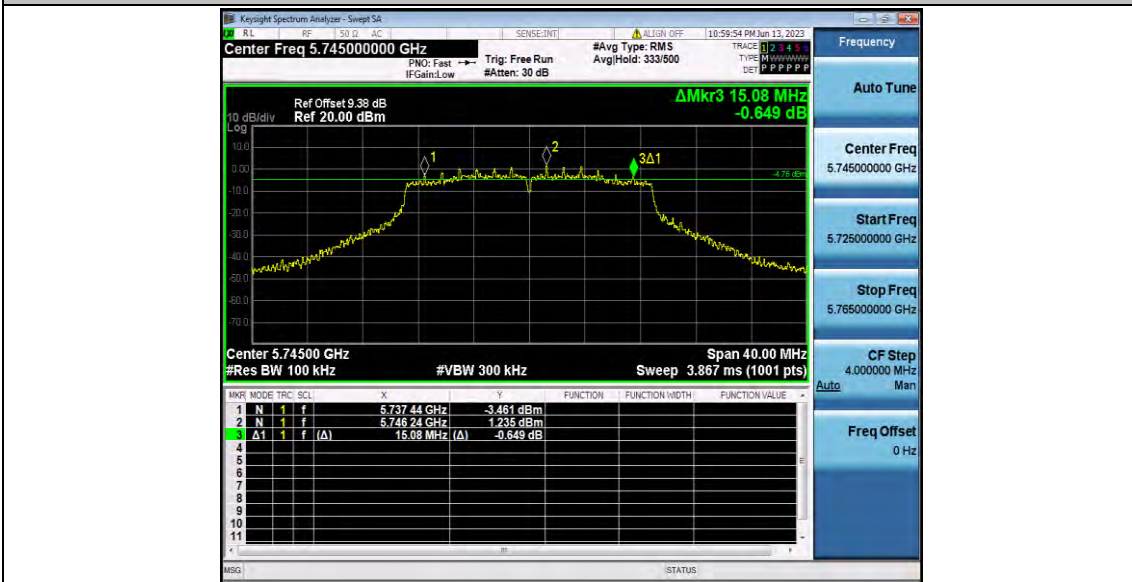
11A_Ant2_5745



11A_Ant2_5785



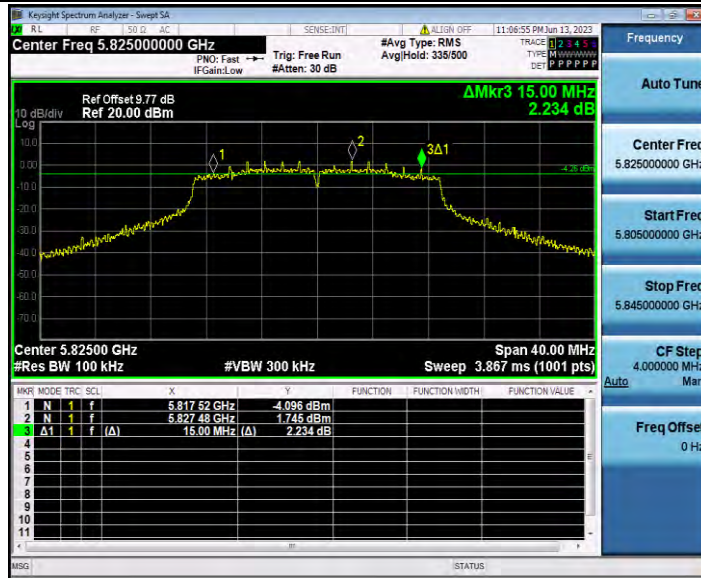
11A_Ant2_5825



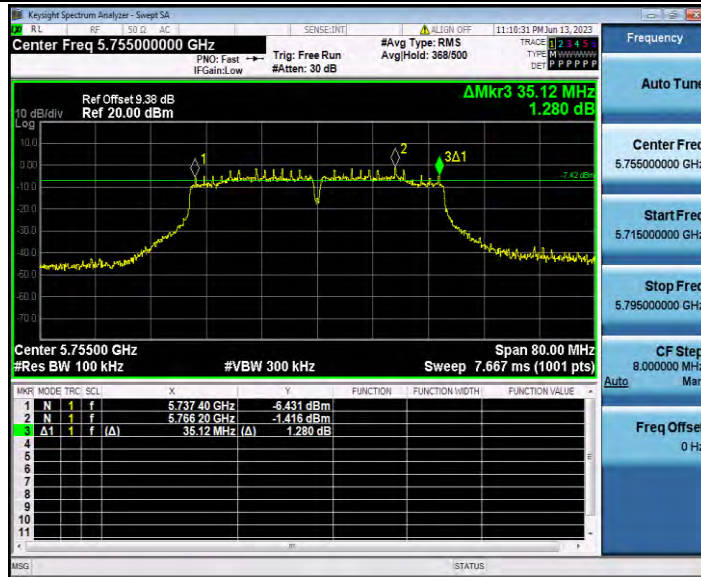
11N20SISO_Ant2_5745



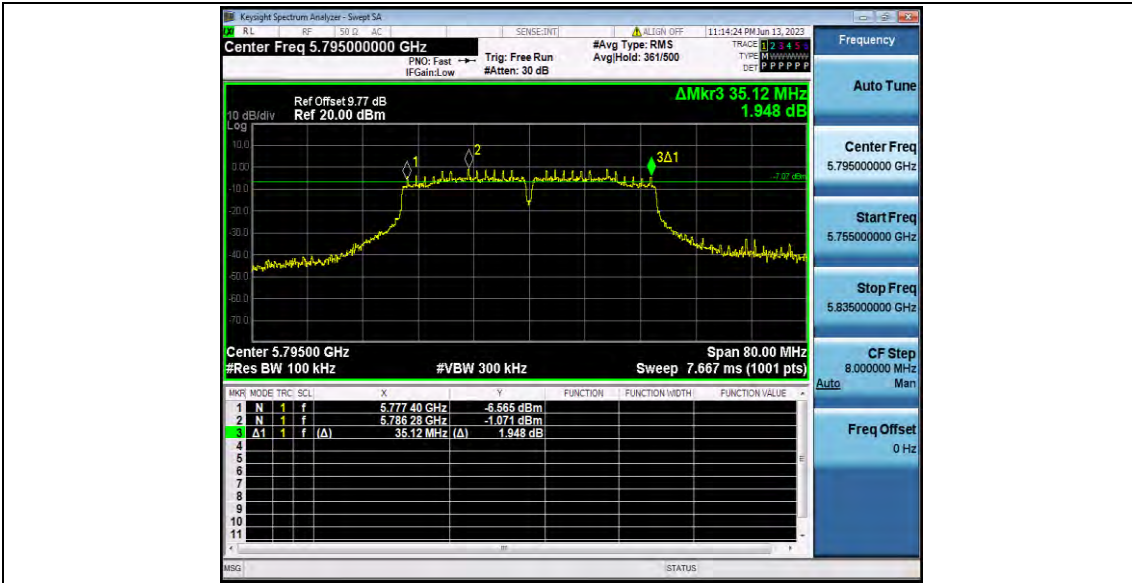
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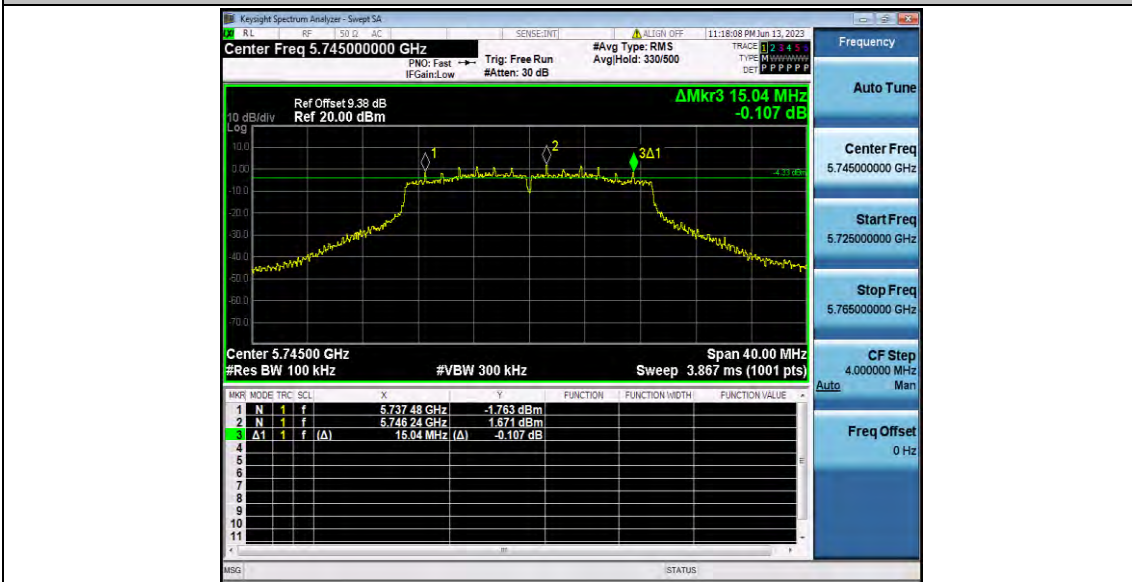
11N20SISO_Ant2_5825



11N40SISO_Ant2_5755



11N40SISO_Ant2_5795



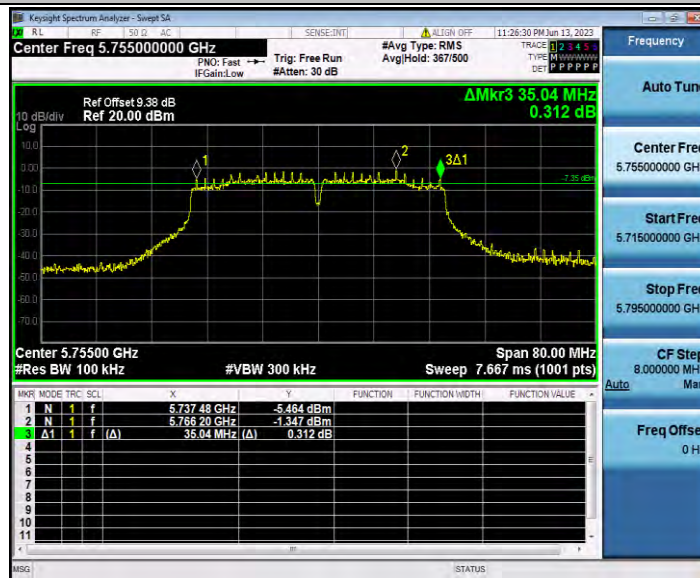
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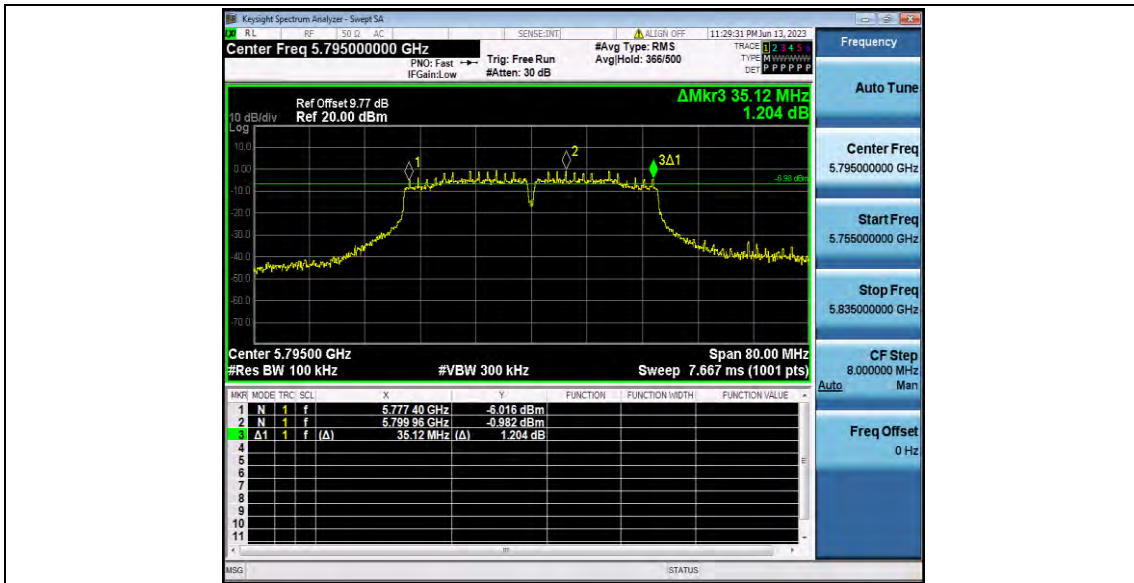
11AC20SISO_Ant2_5785



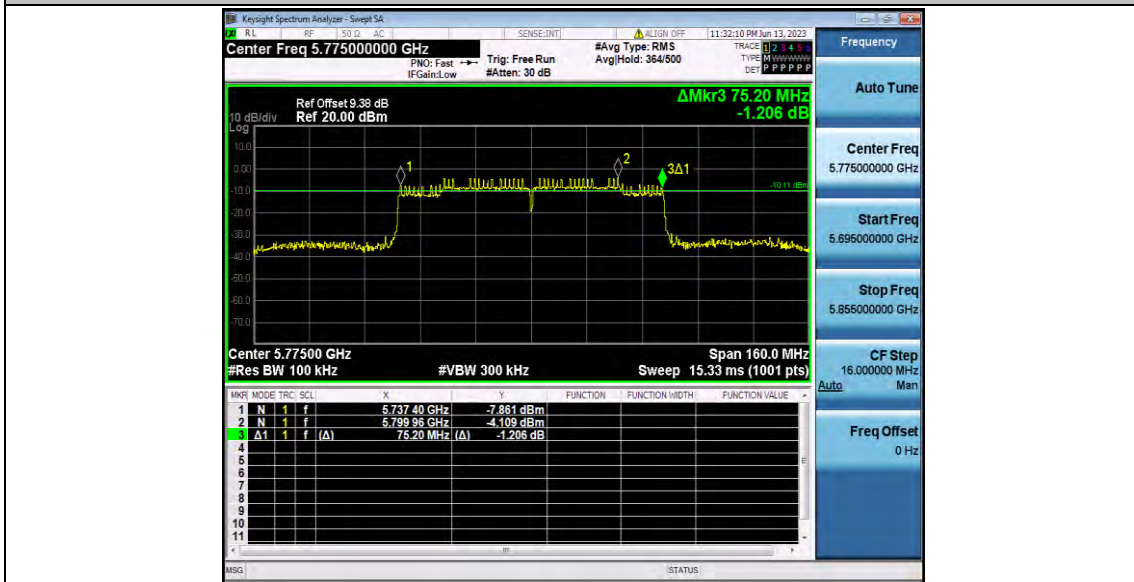
11AC20SISO_Ant2_5825



11AC40SISO_Ant2_5755



11AC40SISO_Ant2_5795



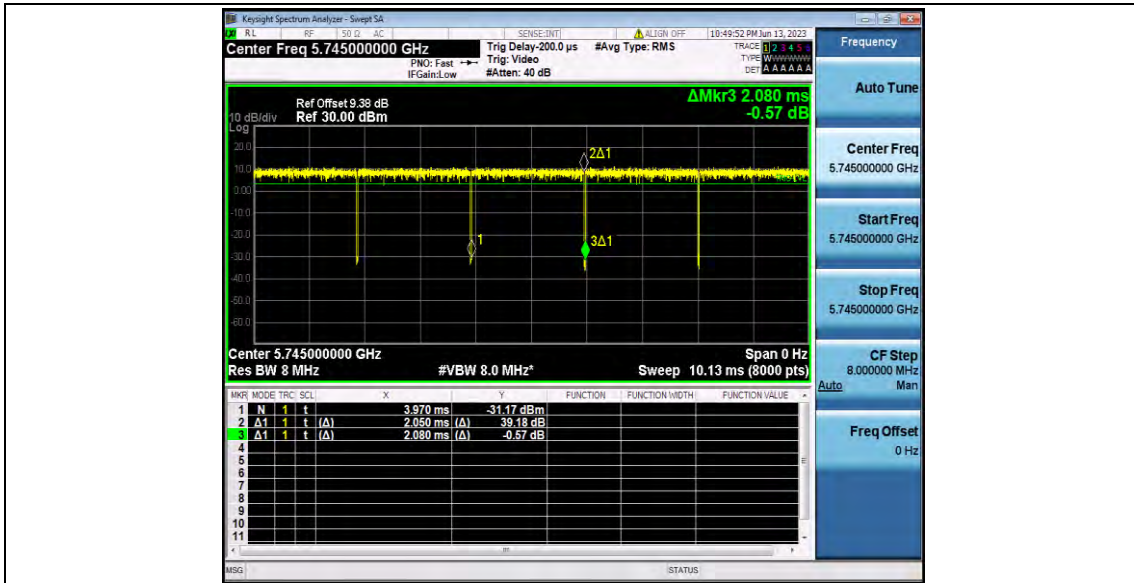
11AC80SISO_Ant2_5775

Appendix E.3: Duty Cycle

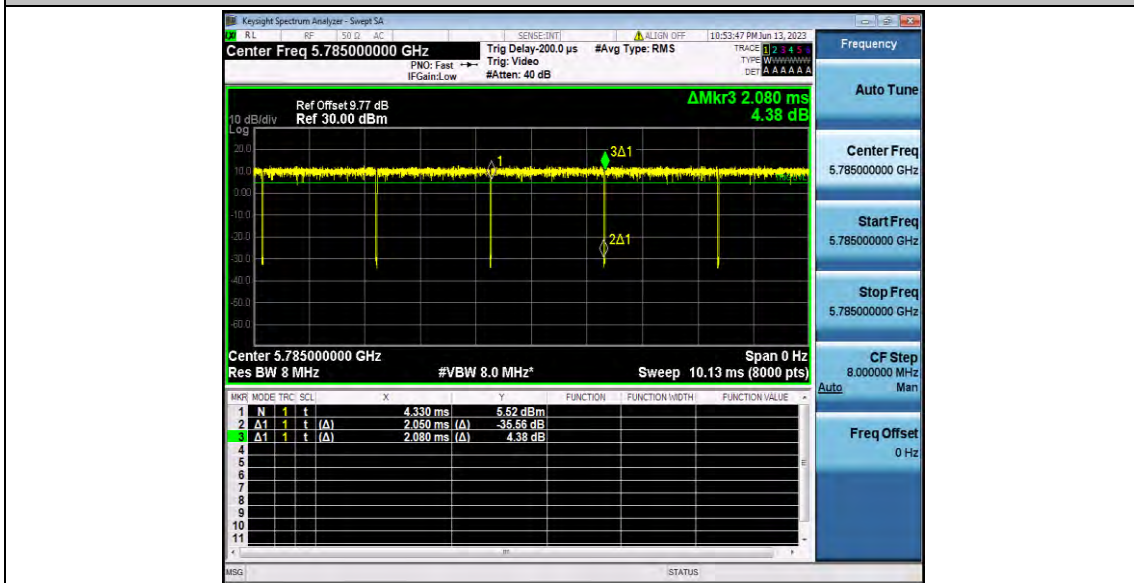
Test Result

Test Mode	Antenna	Frequency[MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]
11A	Ant2	5745	2.05	2.08	98.56
		5785	2.05	2.08	98.56
		5825	2.05	2.08	98.56
11N20SISO	Ant2	5745	1.91	1.94	98.45
		5785	1.91	1.94	98.45
		5825	1.91	1.94	98.45
11N40SISO	Ant2	5755	0.94	0.97	96.91
		5795	0.94	0.97	96.91
11AC20SISO	Ant2	5745	1.90	1.93	98.45
		5785	1.91	1.94	98.45
		5825	1.90	1.93	98.45
11AC40SISO	Ant2	5755	0.93	0.96	96.88
		5795	0.93	0.96	96.88
11AC80SISO	Ant2	5775	0.44	0.47	93.62

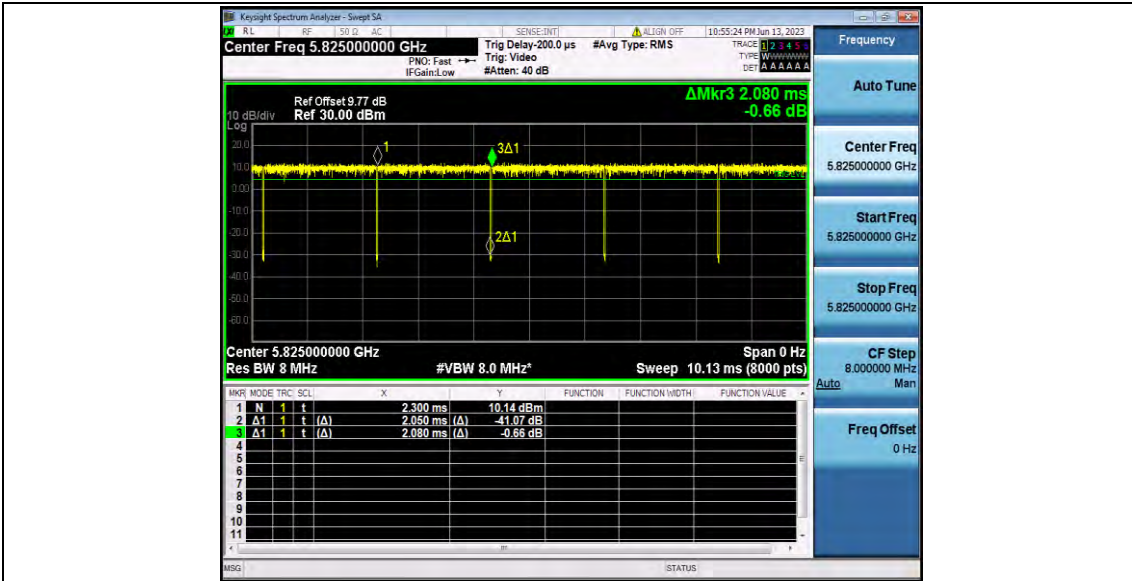
Test Graphs



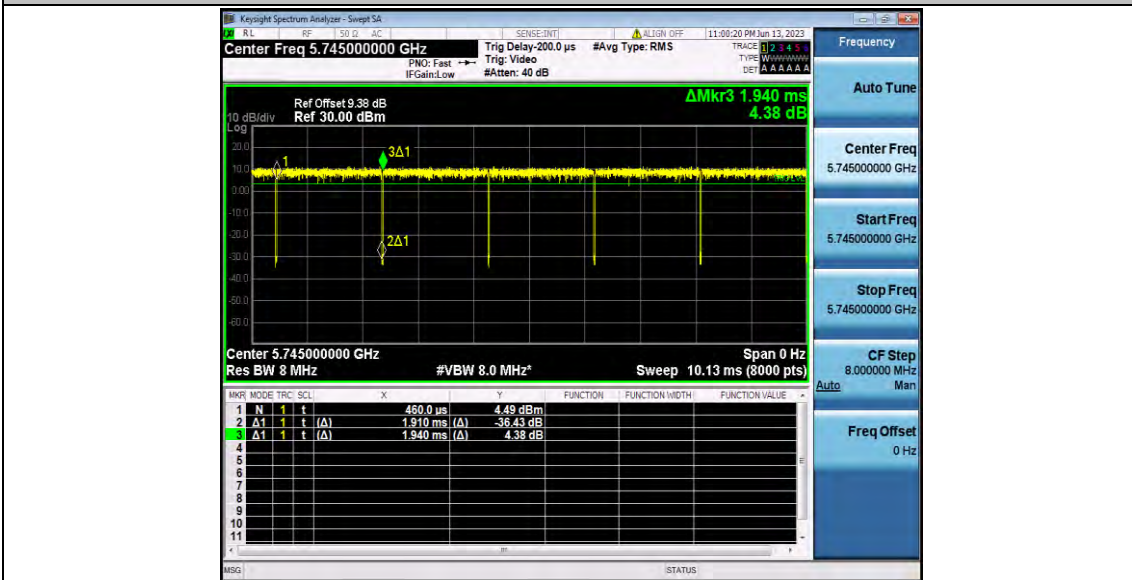
11A_Ant2_5745



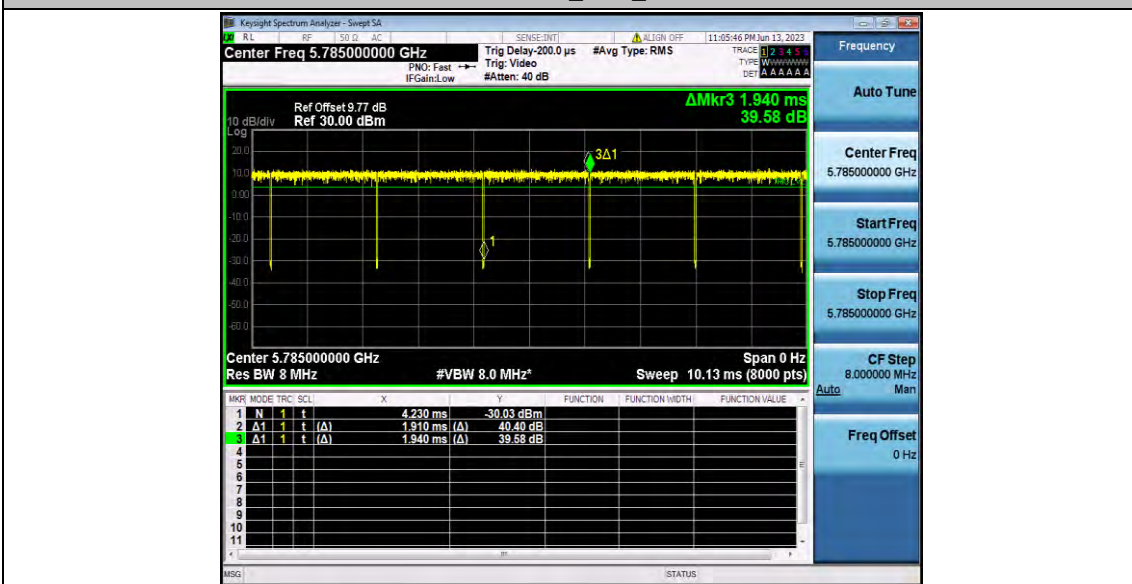
11A_Ant2_5785



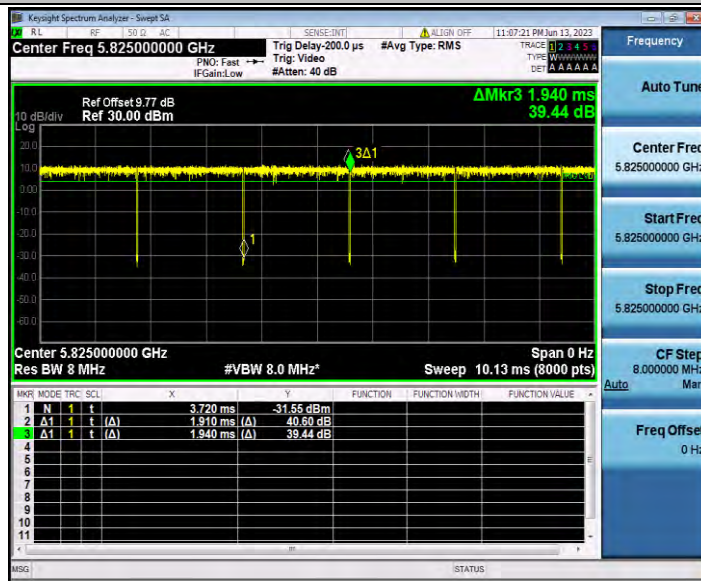
11A_Ant2_5825



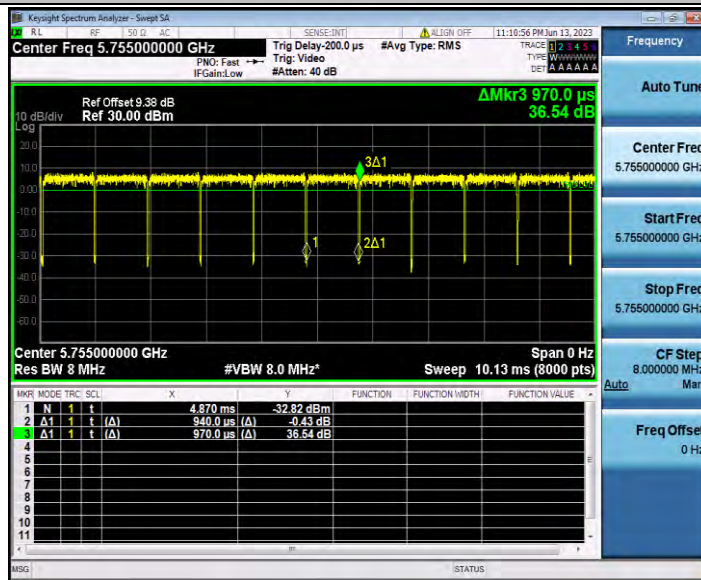
11N20SISO_Ant2_5745



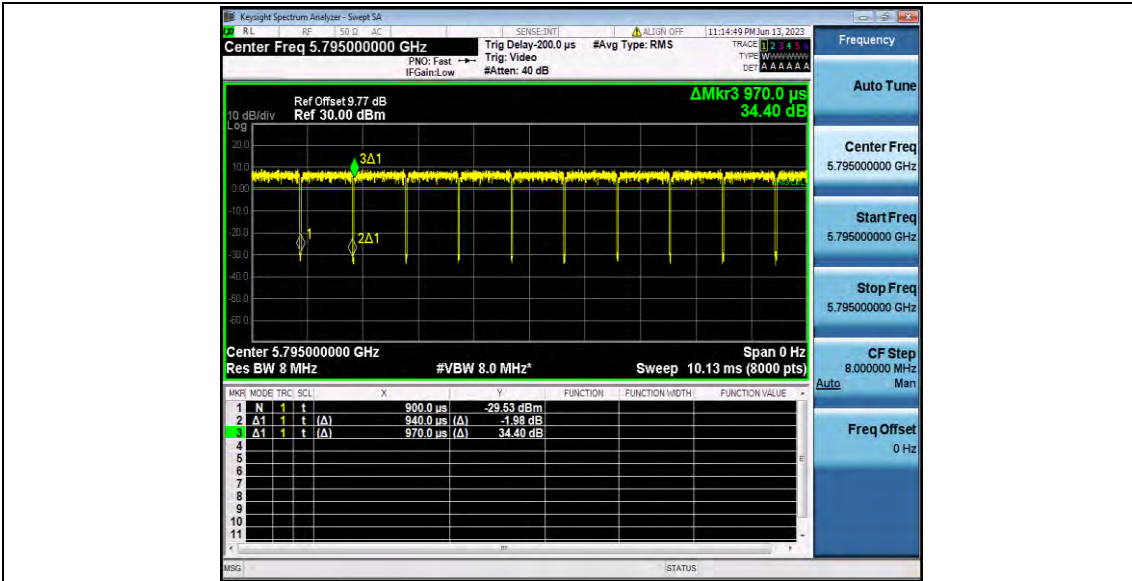
11N20SISO_Ant2_5785



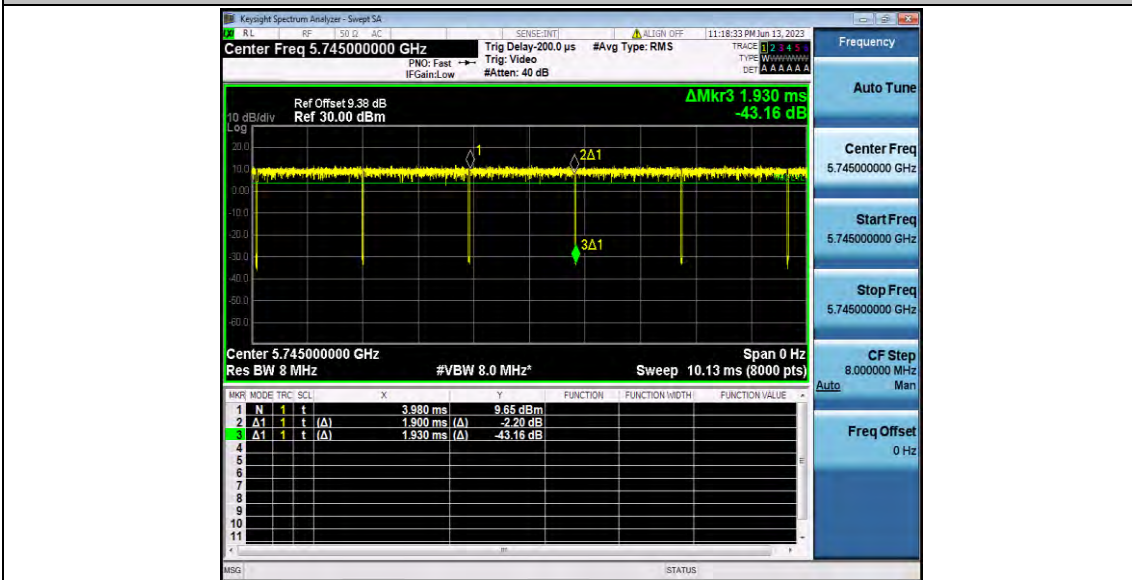
11N20SISO_Ant2_5825



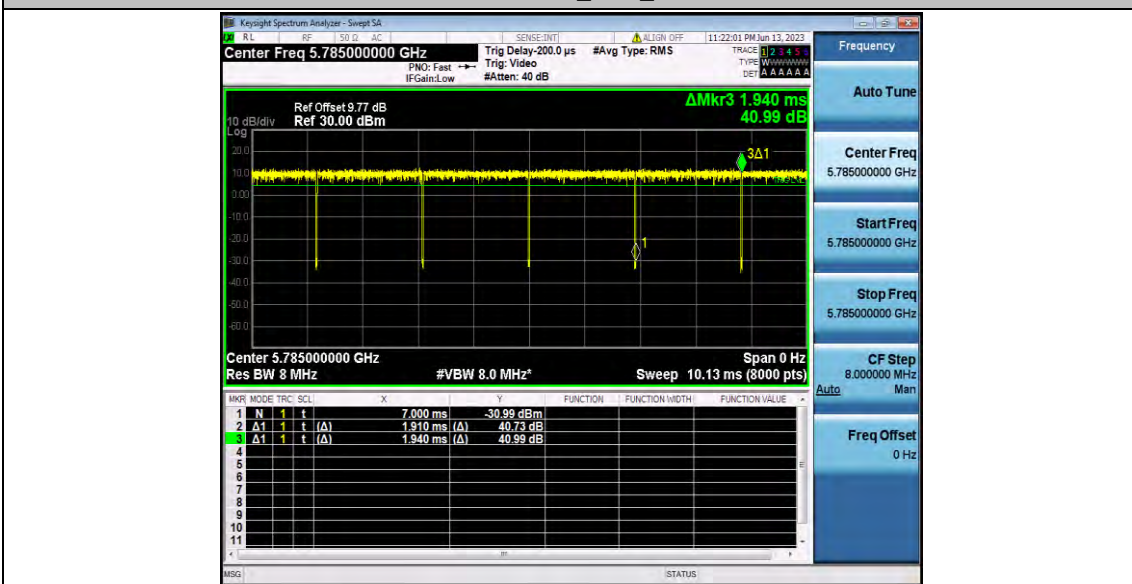
11N40SISO_Ant2_5755



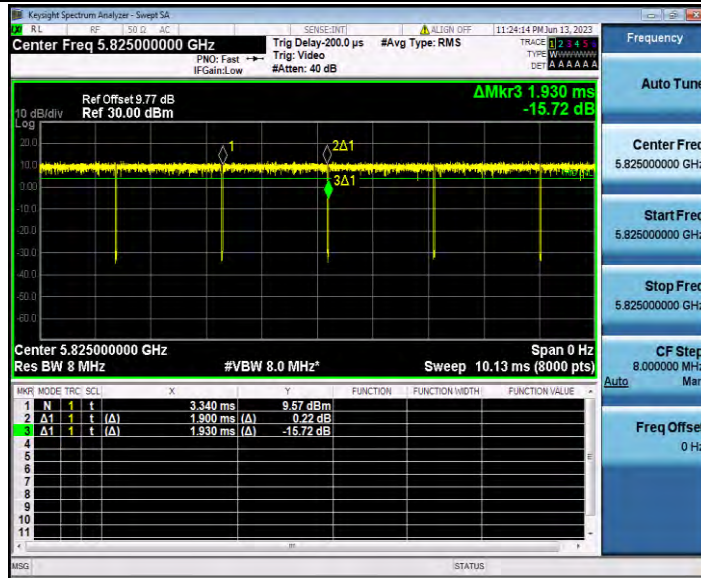
11N40SISO_Ant2_5795



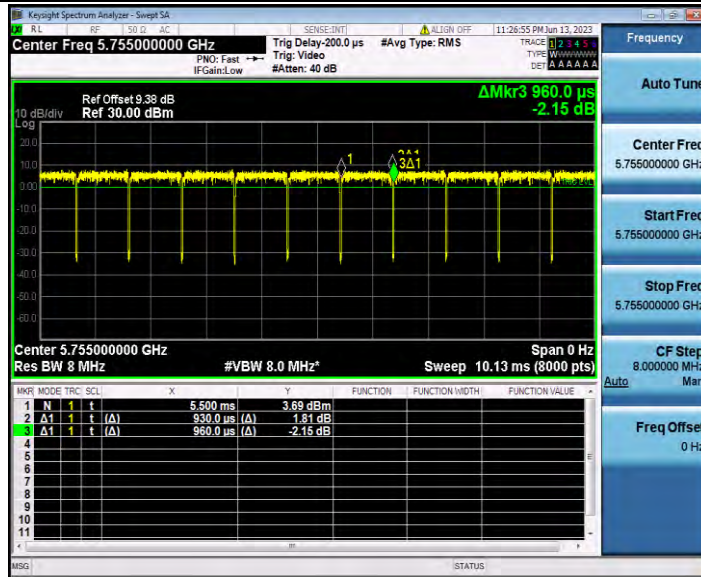
11AC20SISO_Ant2_5745



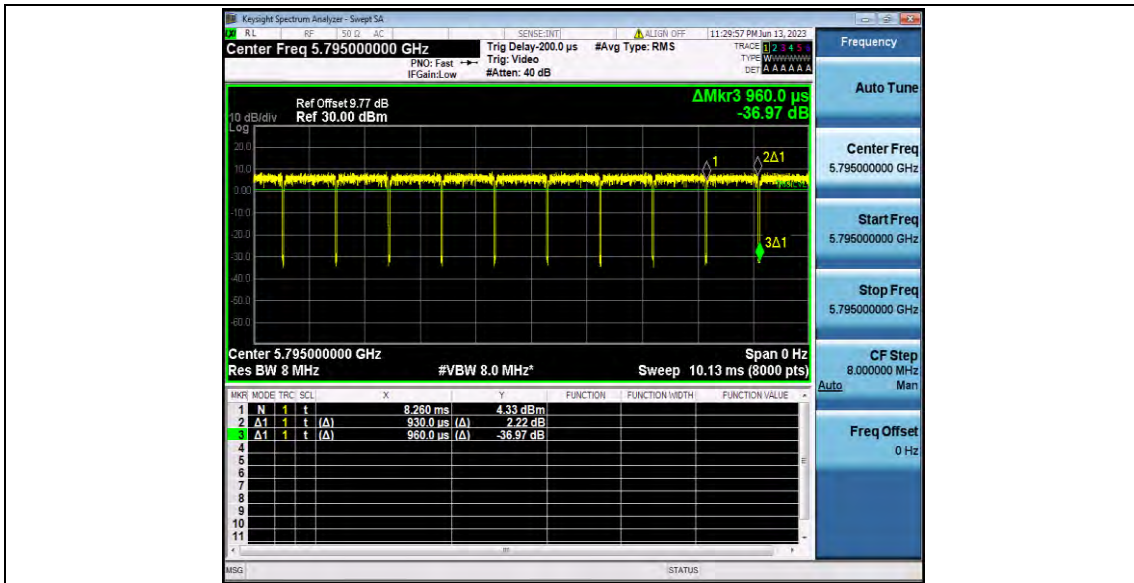
11AC20SISO_Ant2_5785



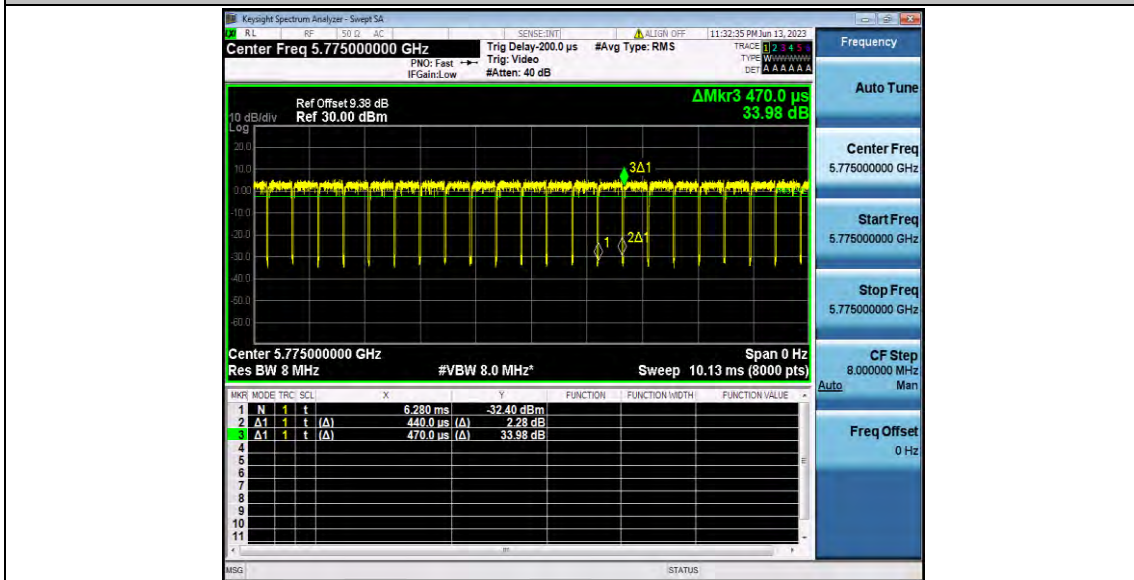
11AC20SISO_Ant2_5825



11AC40SISO_Ant2_5755



11AC40SISO_Ant2_5795



11AC80SISO_Ant2_5775

Appendix E.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	11.71	98.56	0.06	11.77	≤30.00	PASS
		5785	12.38	98.56	0.06	12.44	≤30.00	PASS
		5825	12.26	98.56	0.06	12.32	≤30.00	PASS
11N20SISO	Ant2	5745	11.48	98.45	0.07	11.55	≤30.00	PASS
		5785	12.19	98.45	0.07	12.26	≤30.00	PASS
		5825	12.25	98.45	0.07	12.32	≤30.00	PASS
11N40SISO	Ant2	5755	11.39	96.91	0.14	11.53	≤30.00	PASS
		5795	12.44	96.91	0.14	12.58	≤30.00	PASS
11AC20SISO	Ant2	5745	11.59	98.45	0.07	11.66	≤30.00	PASS
		5785	12.22	98.45	0.07	12.29	≤30.00	PASS
		5825	12.22	98.45	0.07	12.29	≤30.00	PASS
11AC40SISO	Ant2	5755	11.46	96.88	0.14	11.60	≤30.00	PASS
		5795	12.07	96.88	0.14	12.21	≤30.00	PASS
11AC80SISO	Ant2	5775	12.24	93.62	0.29	12.53	≤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	-1.98	≤30.00	PASS
		5785	-1.23	≤30.00	PASS
		5825	-0.94	≤30.00	PASS
11N20SISO	Ant2	5745	-2.26	≤30.00	PASS
		5785	-1.51	≤30.00	PASS
		5825	-1.69	≤30.00	PASS
11N40SISO	Ant2	5755	-5.51	≤30.00	PASS
		5795	-4.55	≤30.00	PASS
11AC20SISO	Ant2	5745	-2.31	≤30.00	PASS
		5785	-1.4	≤30.00	PASS
		5825	-1.68	≤30.00	PASS
11AC40SISO	Ant2	5755	-5.45	≤30.00	PASS
		5795	-4.91	≤30.00	PASS
11AC80SISO	Ant2	5775	-7.69	≤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_Ant2_5745



11A_Ant2_5785



11A_Ant2_5825



11N20SISO_Ant2_5745



11N20SISO_Ant2_5785



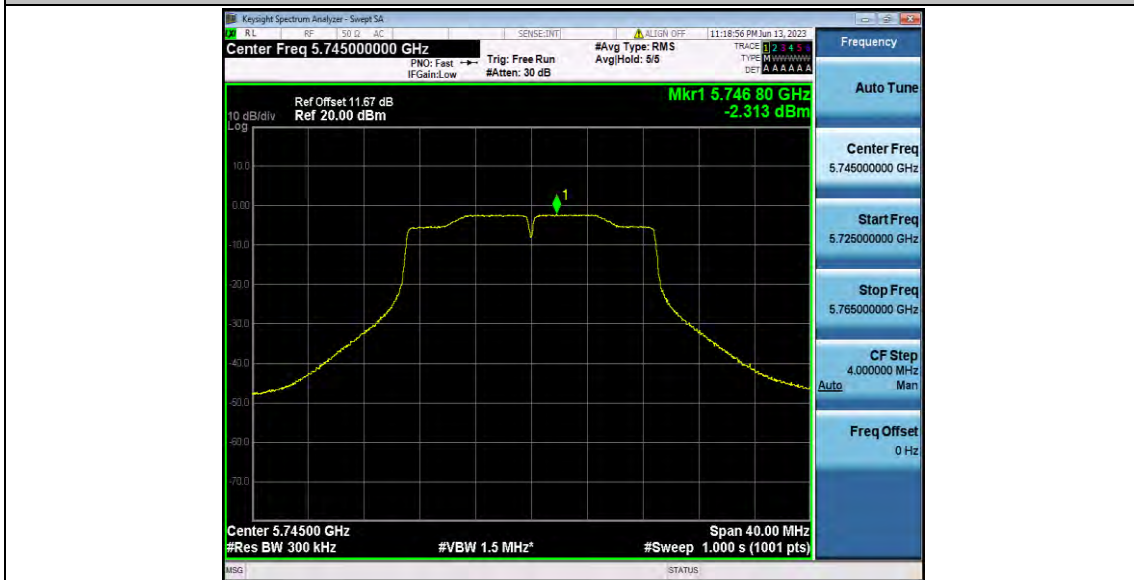
11N20SISO_Ant2_5825



11N40SISO_Ant2_5755



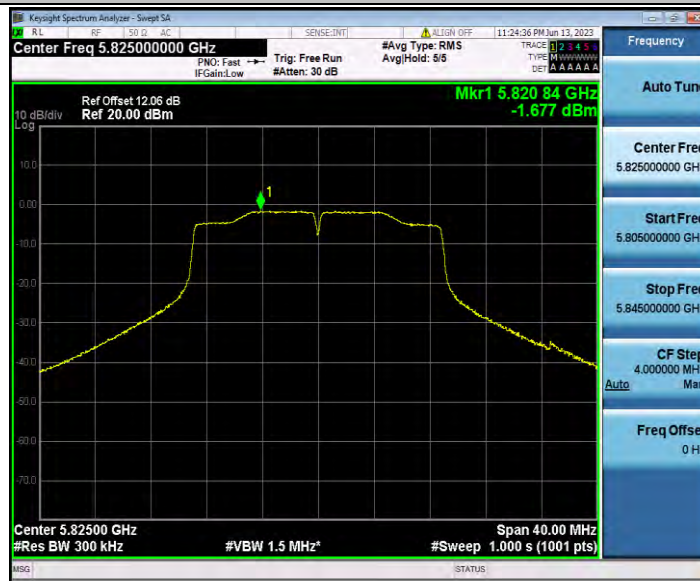
11N40SISO_Ant2_5795



11AC20SISO_Ant2_5745



11AC20SISO_Ant2_5785



11AC20SISO_Ant2_5825



11AC40SISO_Ant2_5755



11AC40SISO_Ant2_5795



11AC80SISO_Ant2_5775

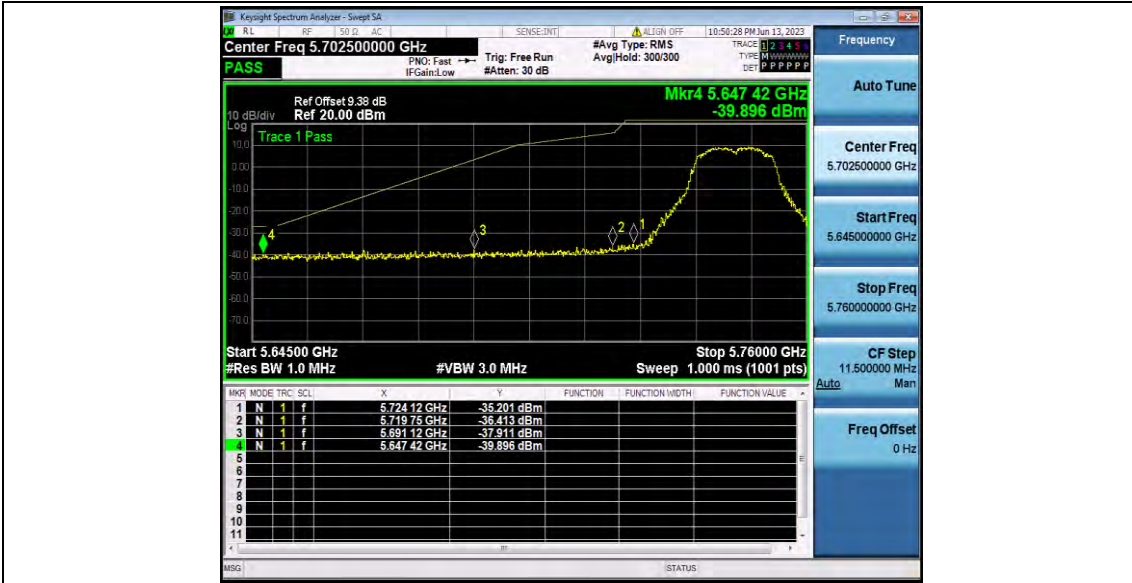
Appendix E.6: Band edge measurements

Test Result B4

TestMode	Antenna	ChName	Frequency[MHz]	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant2	Low	5745	5650~5700	-37.91	≤3.43	PASS
				5700~5720	-36.41	≤15.53	PASS
				5720~5725	-35.2	≤24.99	PASS
				5760~5650	-39.9	≤-27	PASS
		High	5825	5850~5855	-34.92	≤18.56	PASS
				5855~5875	-37.34	≤10.06	PASS
				5875~5925	-37.95	≤-21.36	PASS
				5925~5935	-38.81	≤-27	PASS
11N20SIS O	Ant2	Low	5745	5650~5700	-37.31	≤4.19	PASS
				5700~5720	-36.41	≤15.53	PASS
				5720~5725	-34.69	≤24.47	PASS
				5760~5650	-39.1	≤-27	PASS
		High	5825	5850~5855	-32.34	≤16.10	PASS
				5855~5875	-36.2	≤10.06	PASS
				5875~5925	-36.66	≤-13.87	PASS
				5925~5935	-38.12	≤-27	PASS
11N40SIS O	Ant2	Low	5755	5650~5700	-35.24	≤7.96	PASS
				5700~5720	-35.38	≤11.23	PASS
				5720~5725	-35.3	≤22.51	PASS
				5780~5650	-39.99	≤-27	PASS
		High	5795	5850~5855	-37.47	≤20.92	PASS
				5855~5875	-37.48	≤15.26	PASS
				5875~5925	-37.05	≤-14.35	PASS
				5925~5935	-37.5	≤-27	PASS
11AC20SI SO	Ant2	Low	5745	5650~5700	-37.19	≤7.42	PASS
				5700~5720	-34.78	≤13.89	PASS
				5720~5725	-34.85	≤26.57	PASS
				5760~5650	-38.89	≤-27	PASS
		High	5825	5850~5855	-33.38	≤16.41	PASS
				5855~5875	-36.67	≤11.35	PASS
				5875~5925	-37.58	≤-24.26	PASS
				5925~5935	-38.64	≤-27	PASS
11AC40SI SO	Ant2	Low	5755	5650~5700	-36.04	≤9.56	PASS
				5700~5720	-34.77	≤12.18	PASS
				5720~5725	-34.9	≤21.28	PASS
				5780~5650	-39.63	≤-27	PASS

		High	5795	5850~5855	-38.12	≤ 16.03	PASS
				5855~5875	-38.18	≤ 13.46	PASS
				5875~5925	-38.68	≤ 23.02	PASS
				5925~5935	-38.87	≤ 27	PASS
11AC80SI SO	Ant2	Low	5775	5650~5700	-23.77	≤ 7.95	PASS
				5700~5720	-22.14	≤ 15.00	PASS
				5720~5725	-21.82	≤ 23.42	PASS
				5800~5650	-37.66	≤ 27	PASS
		High	5775	5850~5855	-24.21	≤ 16.64	PASS
				5855~5875	-23.43	≤ 10.18	PASS
				5875~5925	-31.12	≤ 26.68	PASS
				5925~5935	-38.54	≤ 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



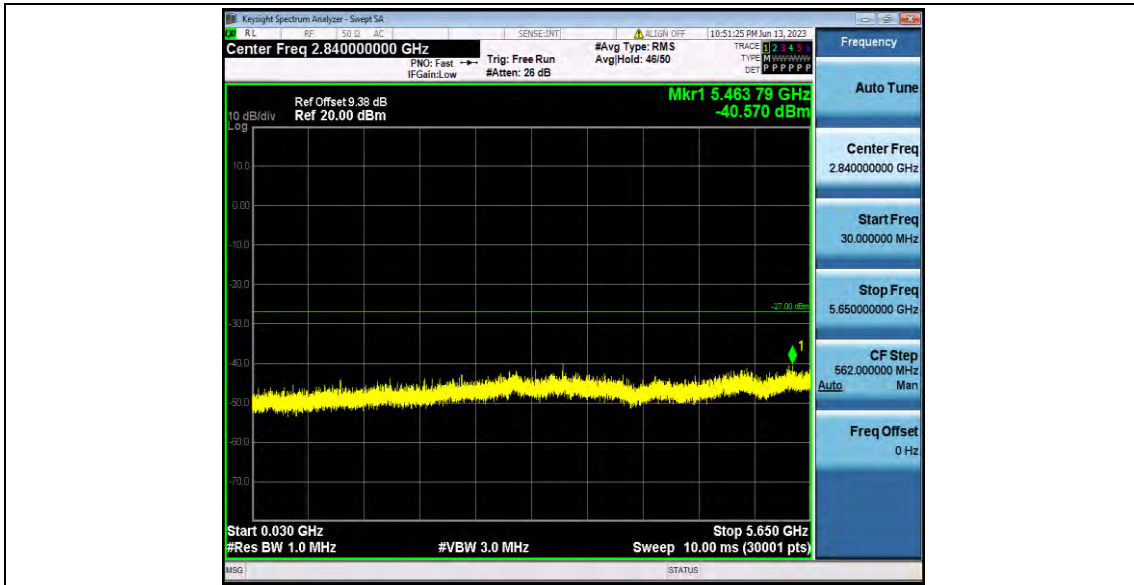
11AC80SISO_Ant2_High_5775

Appendix E.7: Conducted Spurious Emission

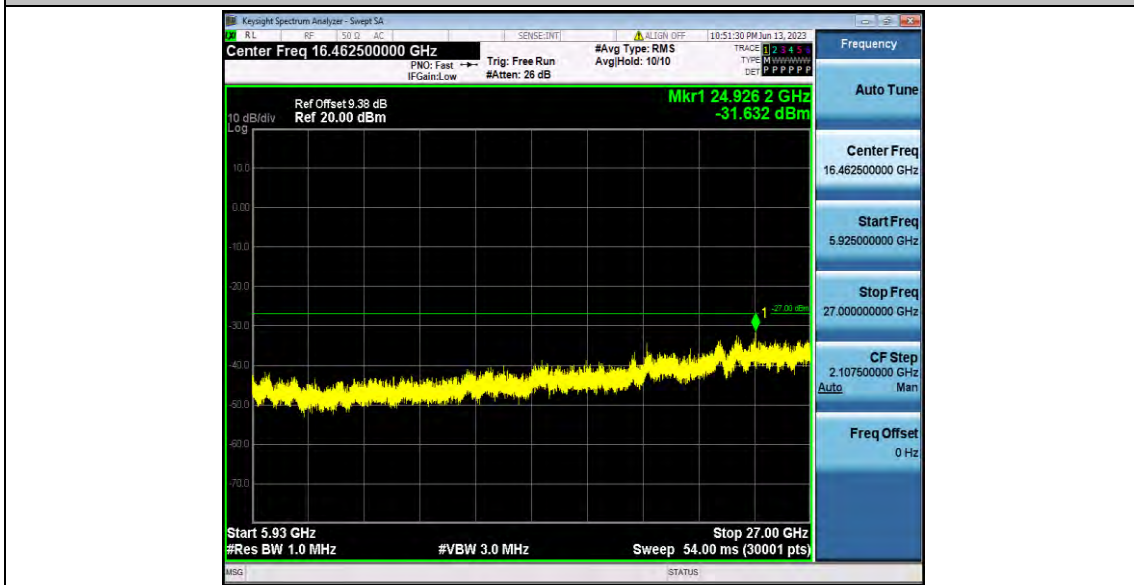
Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant2	5745	30~5650	5463.79	-40.57	≤-27	PASS
			5925~40000	24926.22	-31.63	≤-27	PASS
		5785	30~5650	5486.08	-40.81	≤-27	PASS
			5925~40000	26879.17	-31.87	≤-27	PASS
		5825	30~5650	5447.68	-40.58	≤-27	PASS
			5925~40000	26726.03	-32.45	≤-27	PASS
11N20SISO	Ant2	5745	30~5650	5629.58	-40.41	≤-27	PASS
			5925~40000	24272.9	-32.76	≤-27	PASS
		5785	30~5650	5463.6	-39.86	≤-27	PASS
			5925~40000	24999.98	-33.01	≤-27	PASS
		5825	30~5650	5388.11	-40.29	≤-27	PASS
			5925~40000	24212.48	-32.55	≤-27	PASS
11N40SISO	Ant2	5755	30~5650	5598.11	-40.64	≤-27	PASS
			5925~40000	26963.47	-32.32	≤-27	PASS
		5795	30~5650	5632.02	-40.9	≤-27	PASS
			5925~40000	24265.87	-31.5	≤-27	PASS
11AC20SISO	Ant2	5745	30~5650	5501.26	-40.81	≤-27	PASS
			5925~40000	24304.51	-32.28	≤-27	PASS
		5785	30~5650	2684.14	-40.18	≤-27	PASS
			5925~40000	24249.01	-31.97	≤-27	PASS
		5825	30~5650	5392.98	-40.27	≤-27	PASS
			5925~40000	26565.86	-32.02	≤-27	PASS
11AC40SISO	Ant2	5755	30~5650	5465.1	-41.09	≤-27	PASS
			5925~40000	24292.57	-31.4	≤-27	PASS
		5795	30~5650	5475.03	-40.18	≤-27	PASS
			5925~40000	26715.49	-32.65	≤-27	PASS
11AC80SISO	Ant2	5775	30~5650	5639.88	-40.14	≤-27	PASS
			5925~40000	23547.92	-32.76	≤-27	PASS

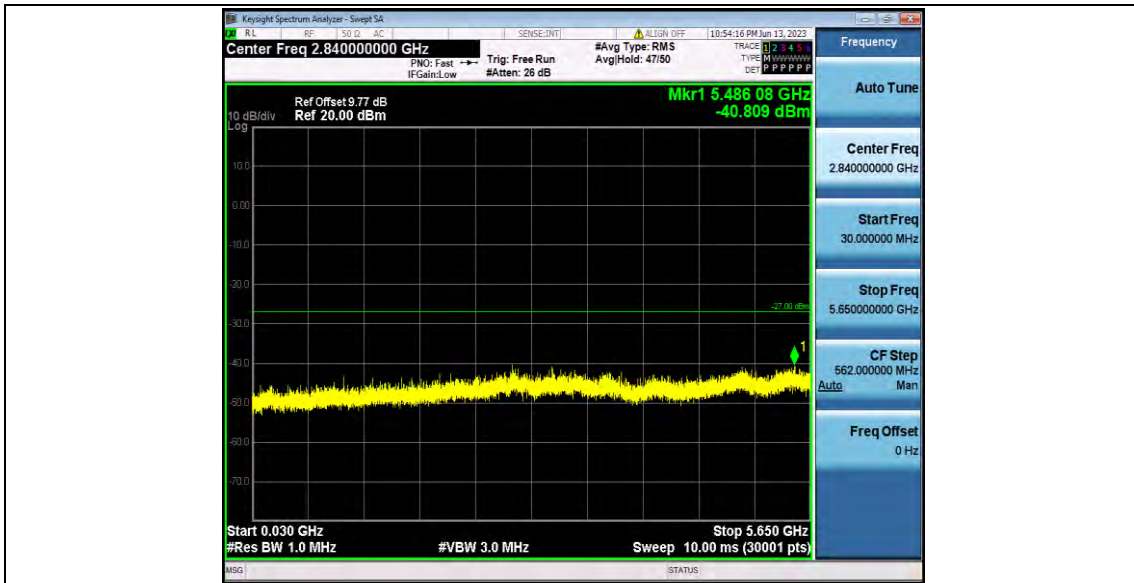
Test Graphs



11A_Ant2_5745_30~5650



11A_Ant2_5745_5925~40000



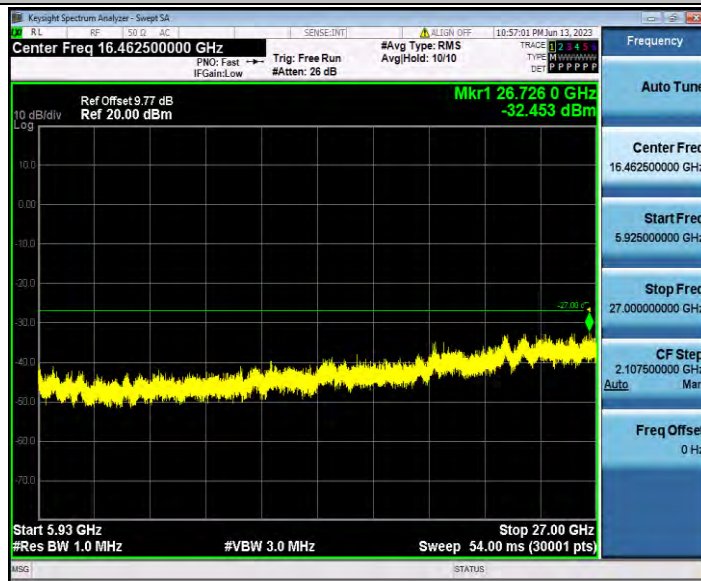
11A_Ant2_5785_30~5650



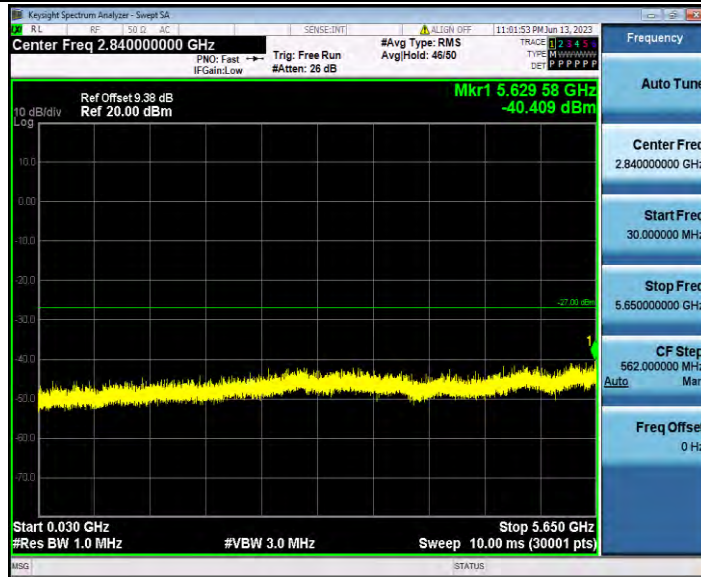
11A_Ant2_5785_5925~40000



11A_Ant2_5825_30~5650



11A_Ant2_5825_5925~40000



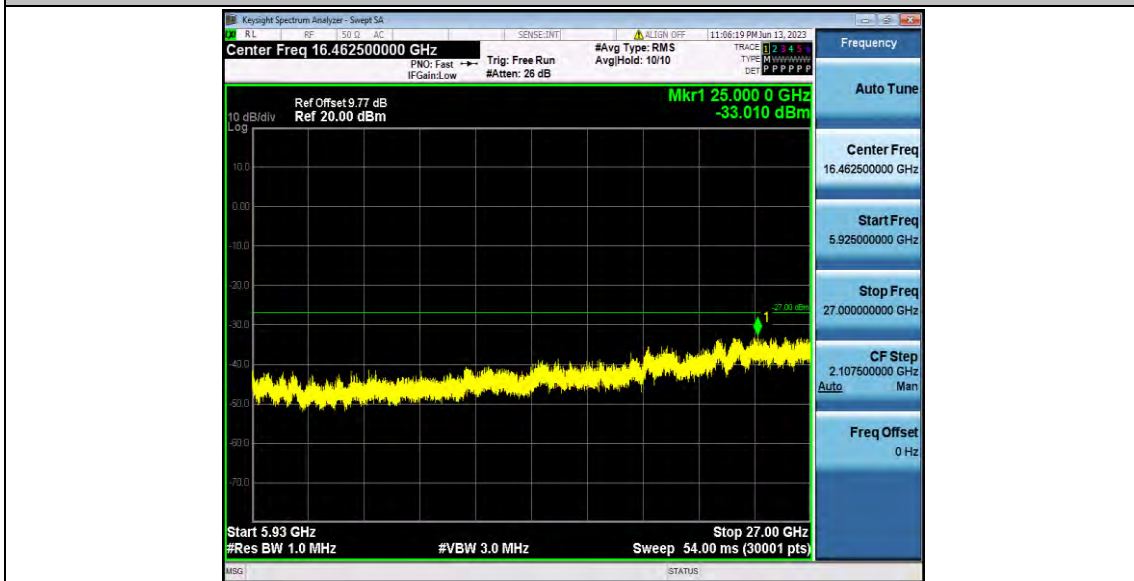
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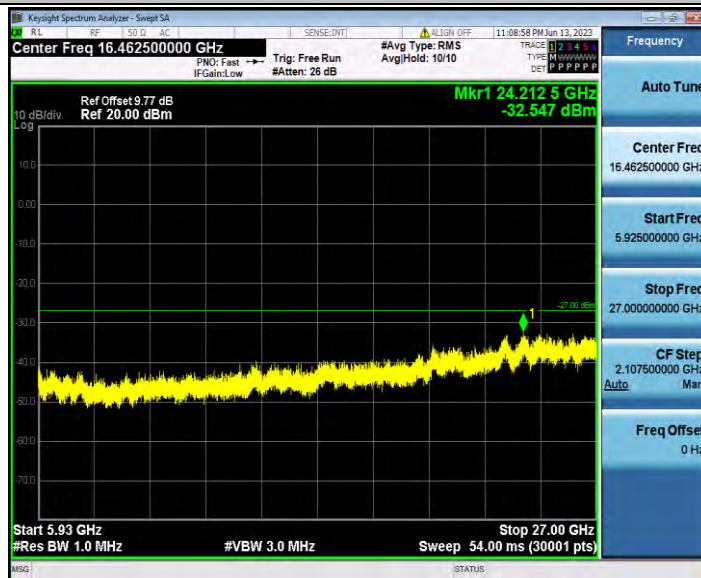
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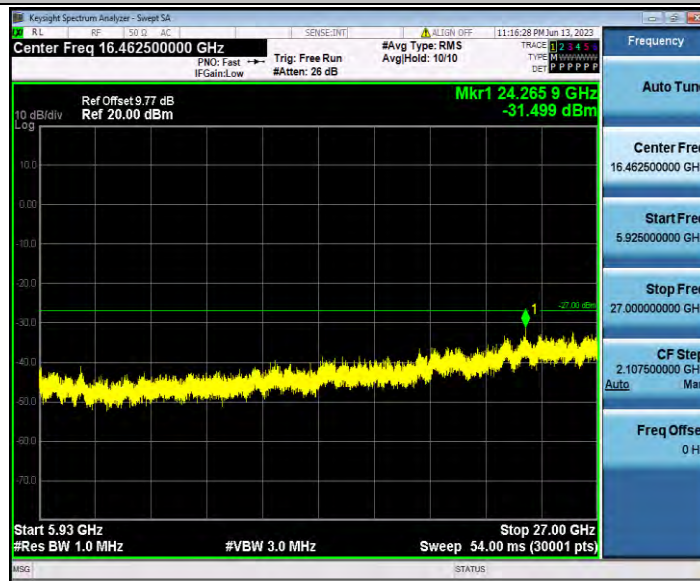
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11N40SISO_Ant2_5755_5925~40000



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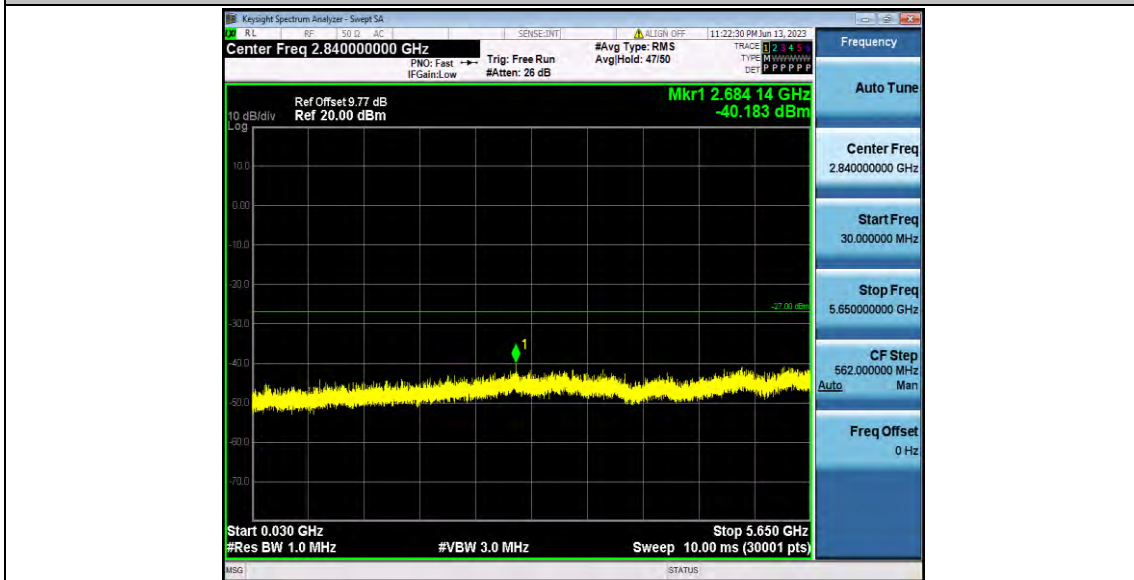
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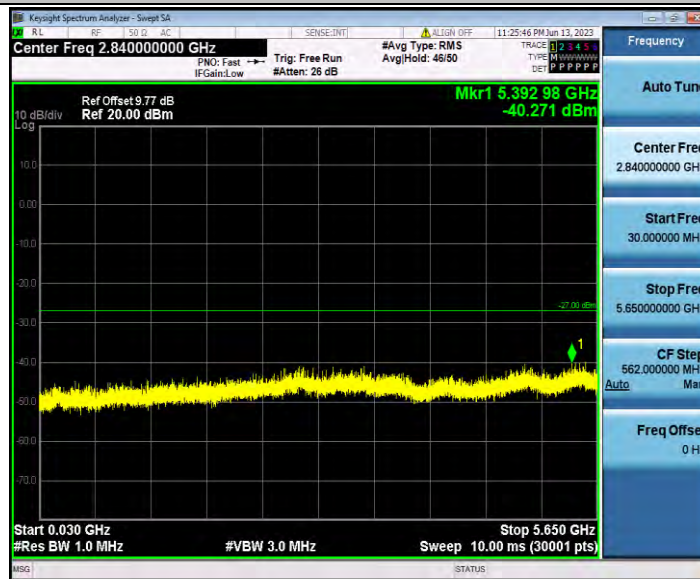
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11AC20SISO_Ant2_5785_30~5650



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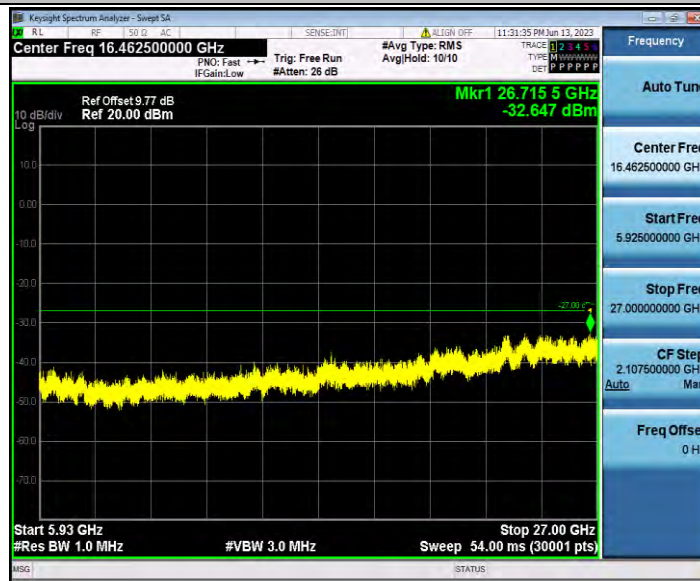
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11AC40SISO_Ant2_5755_5925~40000



11AC40SISO_Ant2_5795_30~5650



11AC40SISO_Ant2_5795_5925~40000



11AC80SISO_Ant2_5775_30~5650

