

Case No. : <u>GTS20240320024-1-13</u>	
Ambient Condition: <u>21</u> °C, <u>54</u> %RH	
According Standard: <u>■Part15E</u>	
Test Date: <u>2024.4.22</u>	Test Engineer: <u>Evan ouyang</u>

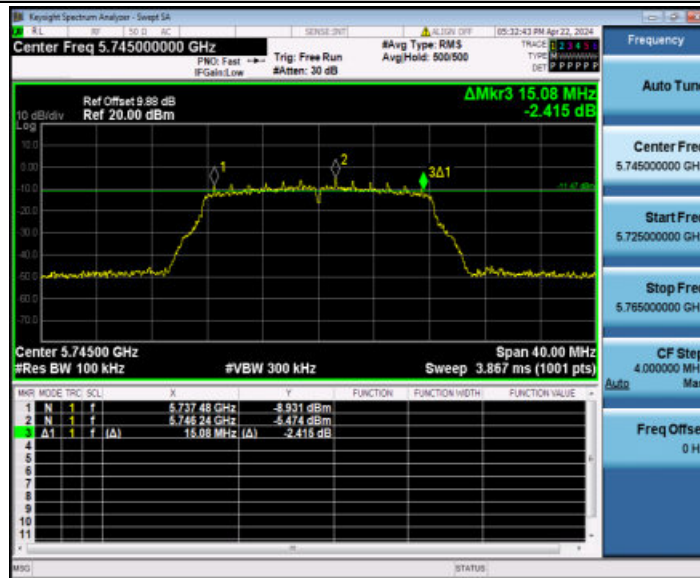
Appendix E.1: Emission Bandwidth

Test Result

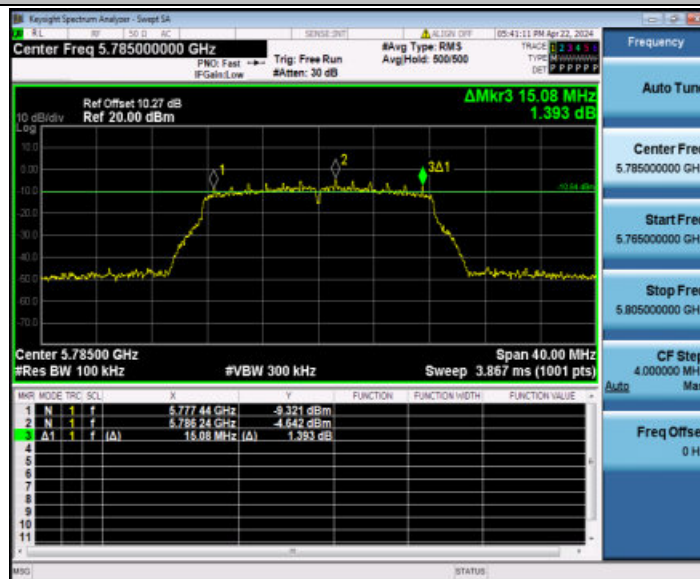
Test Result B4TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.080	5737.480	5752.560	0.5	PASS
		5785	15.080	5777.440	5792.520	0.5	PASS
		5825	15.120	5817.440	5832.560	0.5	PASS
11N20SISO	Ant1	5745	15.440	5737.120	5752.560	0.5	PASS
		5785	15.120	5777.440	5792.560	0.5	PASS
		5825	15.000	5817.520	5832.520	0.5	PASS
11N40SISO	Ant1	5755	35.120	5737.400	5772.520	0.5	PASS
		5795	35.040	5777.480	5812.520	0.5	PASS
11AC20SISO	Ant1	5745	15.120	5737.440	5752.560	0.5	PASS
		5785	15.080	5777.440	5792.520	0.5	PASS
		5825	15.120	5817.440	5832.560	0.5	PASS
11AC40SISO	Ant1	5755	35.120	5737.400	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

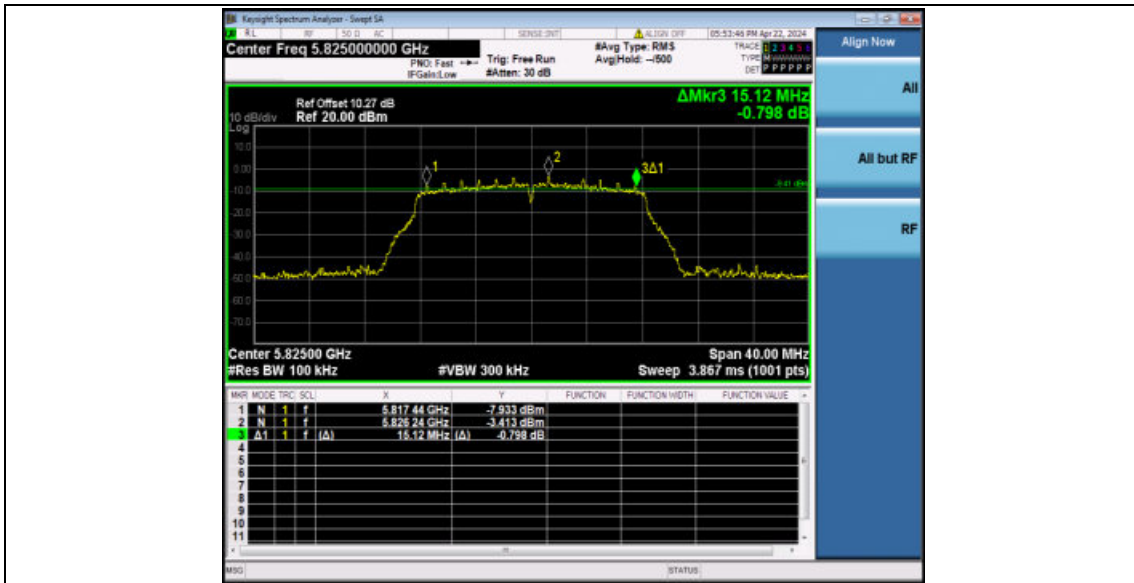
11A_Ant1_5745



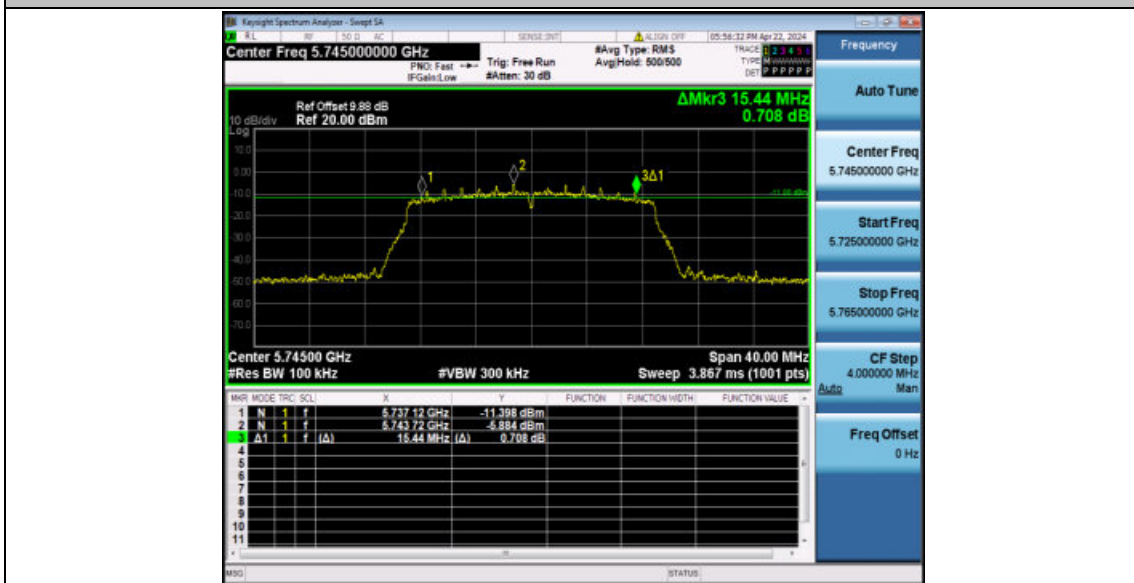
11A_Ant1_5785



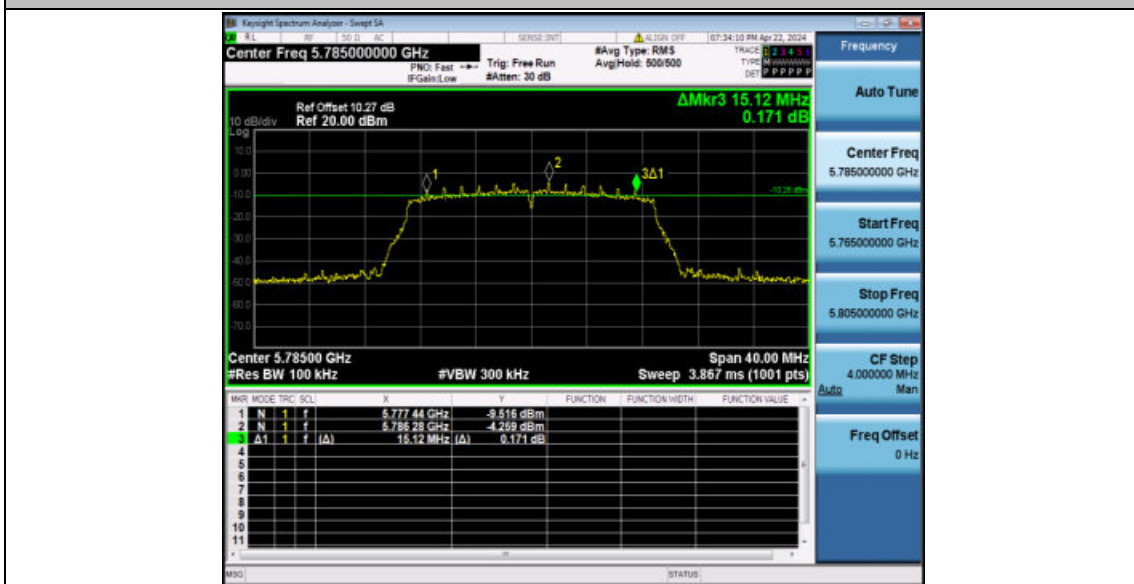
11A_Ant1_5825



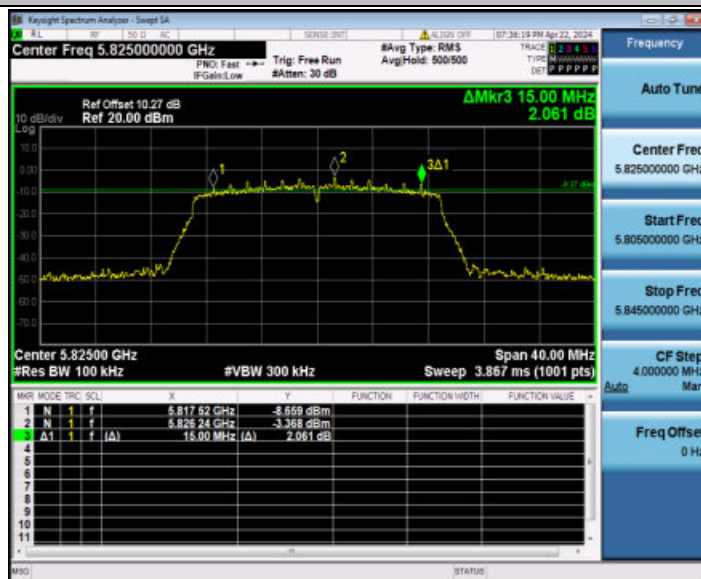
11N20SISO_Ant1_5745



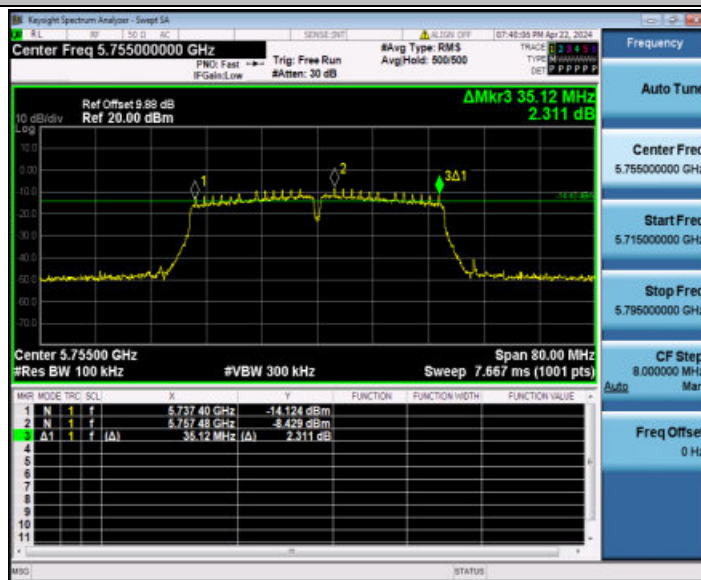
11N20SISO_Ant1_5785



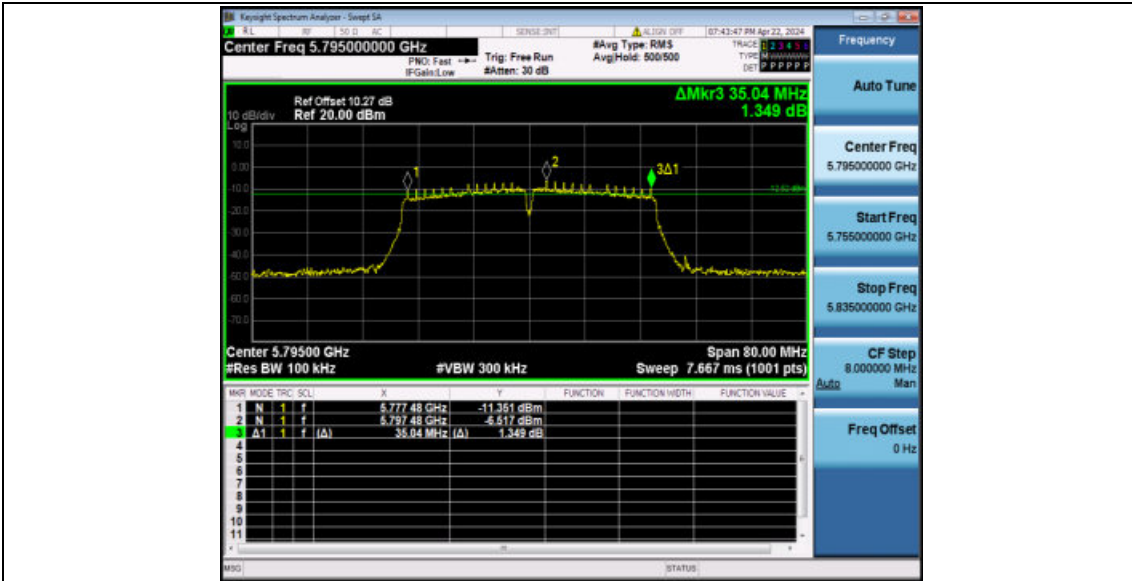
11N20SISO_Ant1_5825



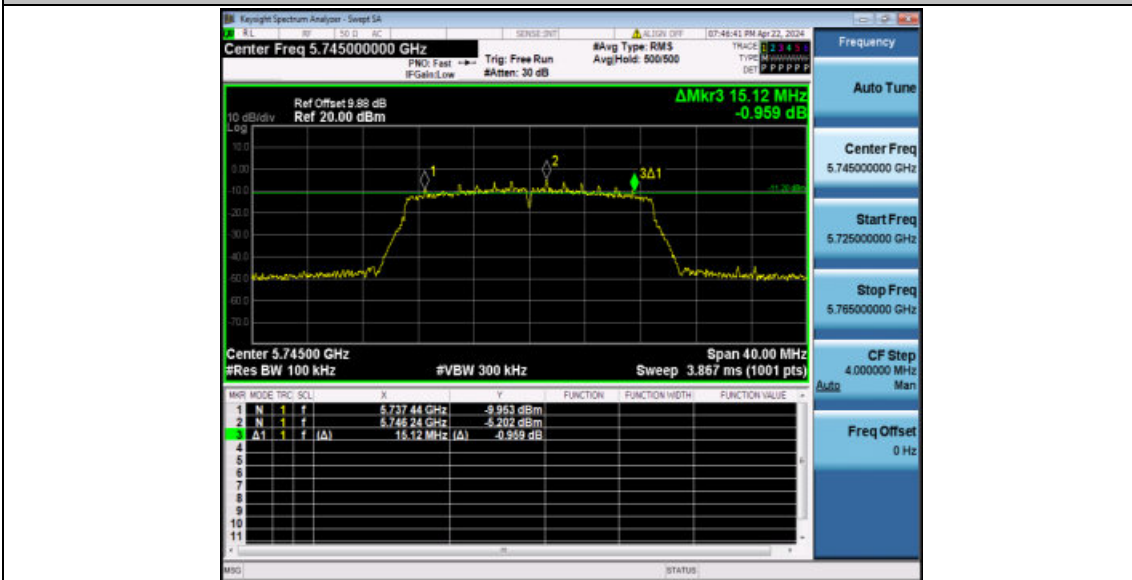
11N40SISO_Ant1_5755



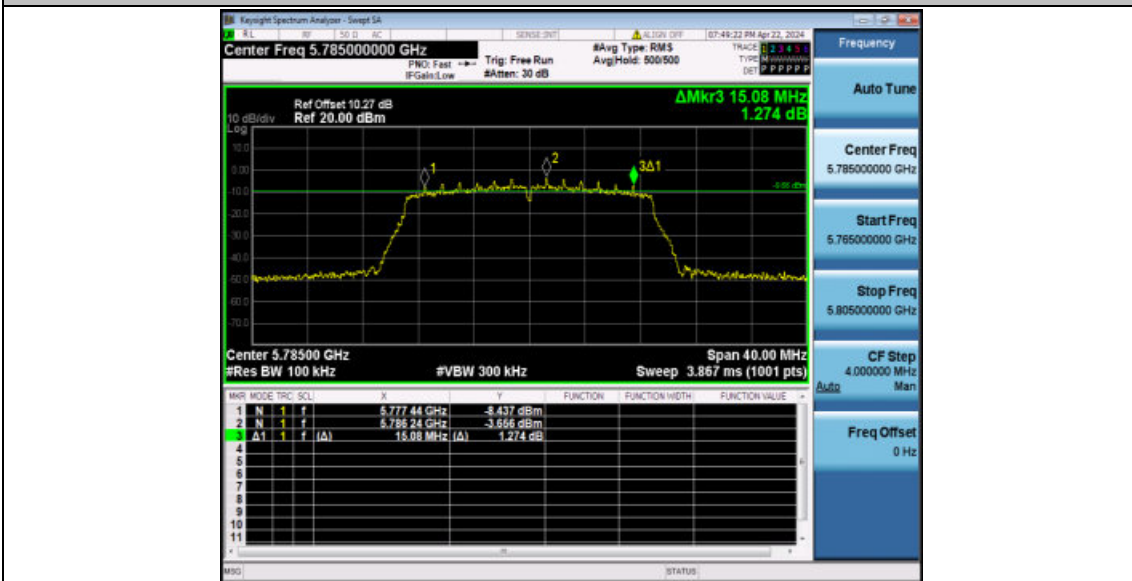
11N40SISO_Ant1_5795



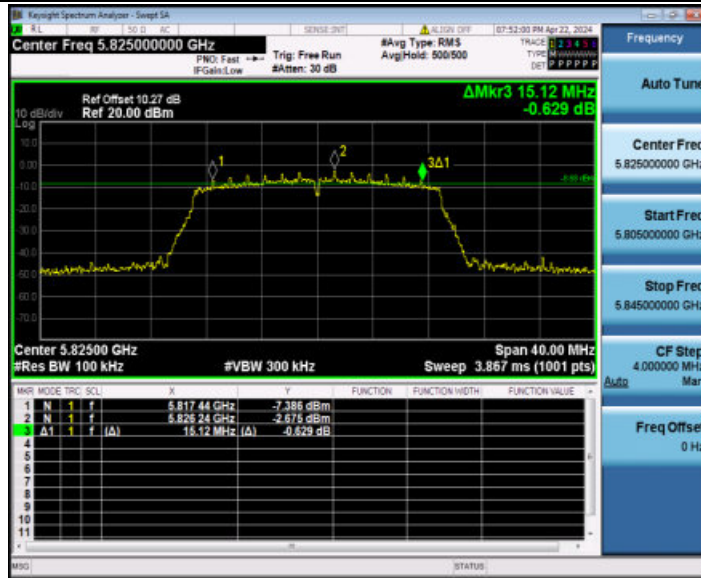
11AC20SISO_Ant1_5745



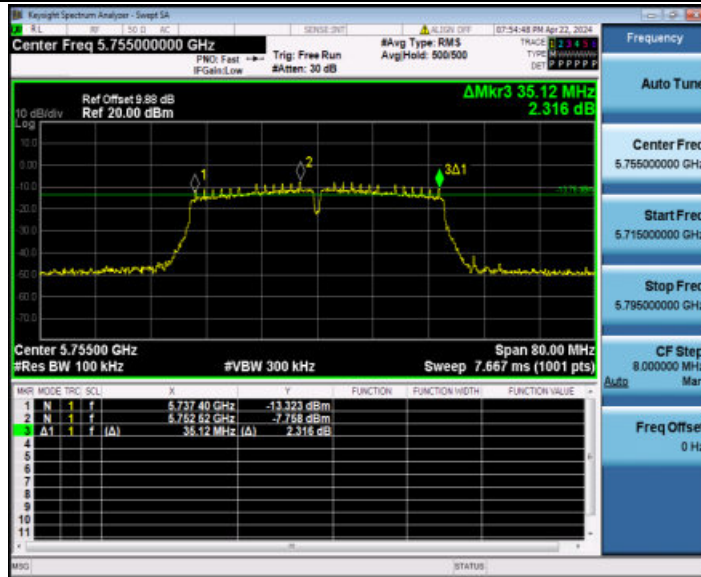
11AC20SISO_Ant1_5785



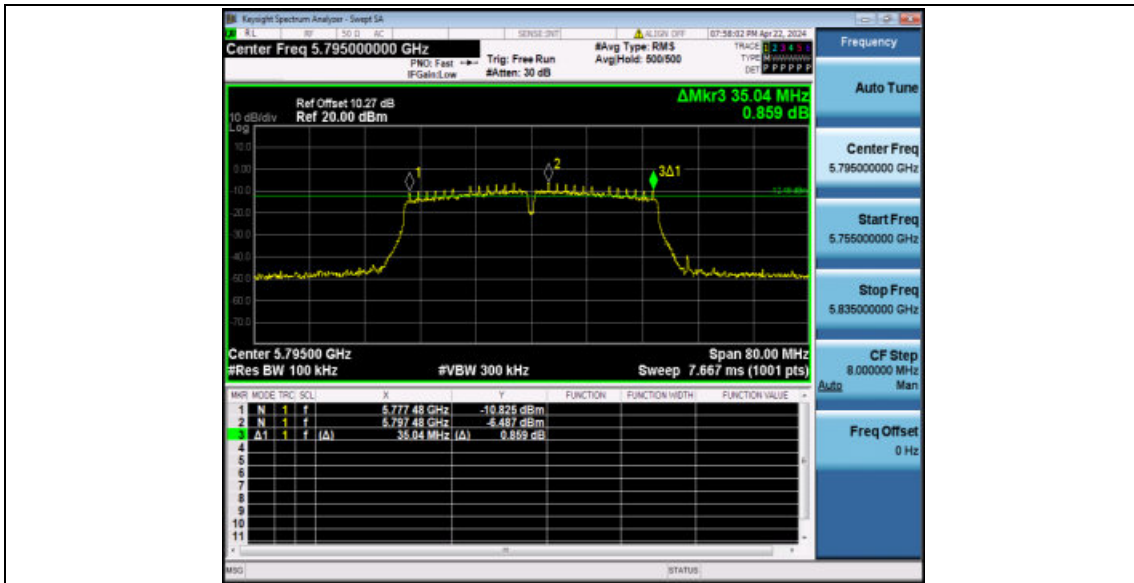
11AC20SISO_Ant1_5825



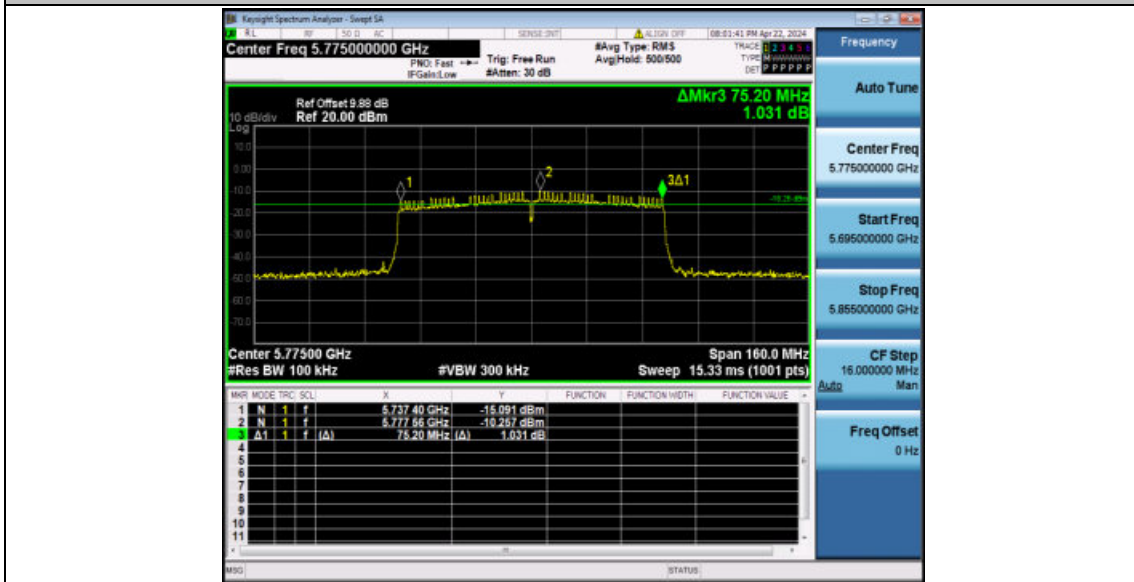
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775



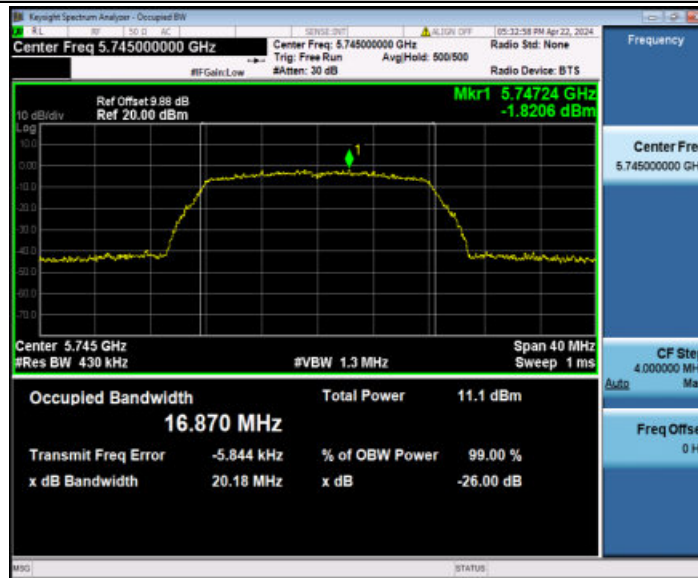
Appendix E.2: Occupied channel bandwidth

Test Result

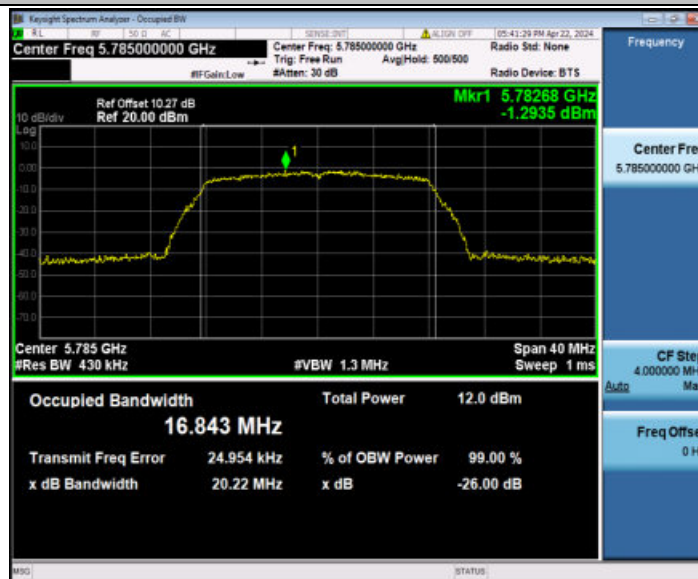
TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.870	5736.5592	5753.4292	---	---
		5785	16.843	5776.6035	5793.4465	---	---
		5825	16.873	5816.5859	5833.4589	---	---
11N20SISO	Ant1	5745	17.817	5736.0790	5753.8960	---	---
		5785	17.845	5776.0984	5793.9434	---	---
		5825	17.855	5816.1062	5833.9612	---	---
11N40SISO	Ant1	5755	36.326	5736.8875	5773.2135	---	---
		5795	36.328	5776.9305	5813.2585	---	---
11AC20SISO	Ant1	5745	17.835	5736.0812	5753.9162	---	---
		5785	17.846	5776.0977	5793.9437	---	---
		5825	17.793	5816.1384	5833.9314	---	---
11AC40SISO	Ant1	5755	36.295	5736.9675	5773.2625	---	---
		5795	36.304	5776.9503	5813.2543	---	---
11AC80SISO	Ant1	5775	75.313	5737.4763	5812.7893	---	---

Test Graphs

11A_Ant1_5745



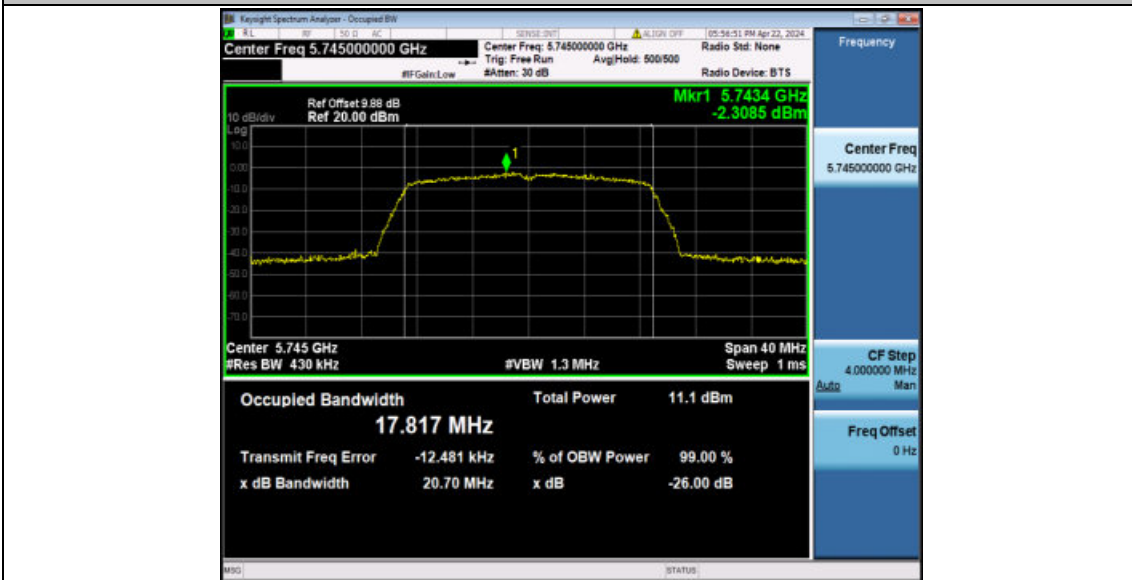
11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



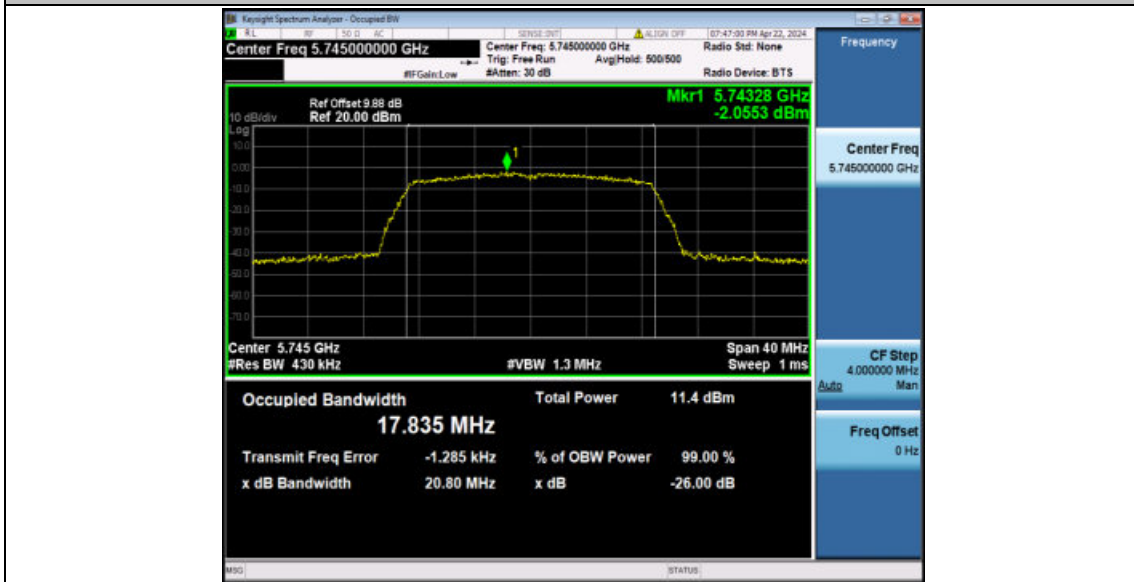
11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



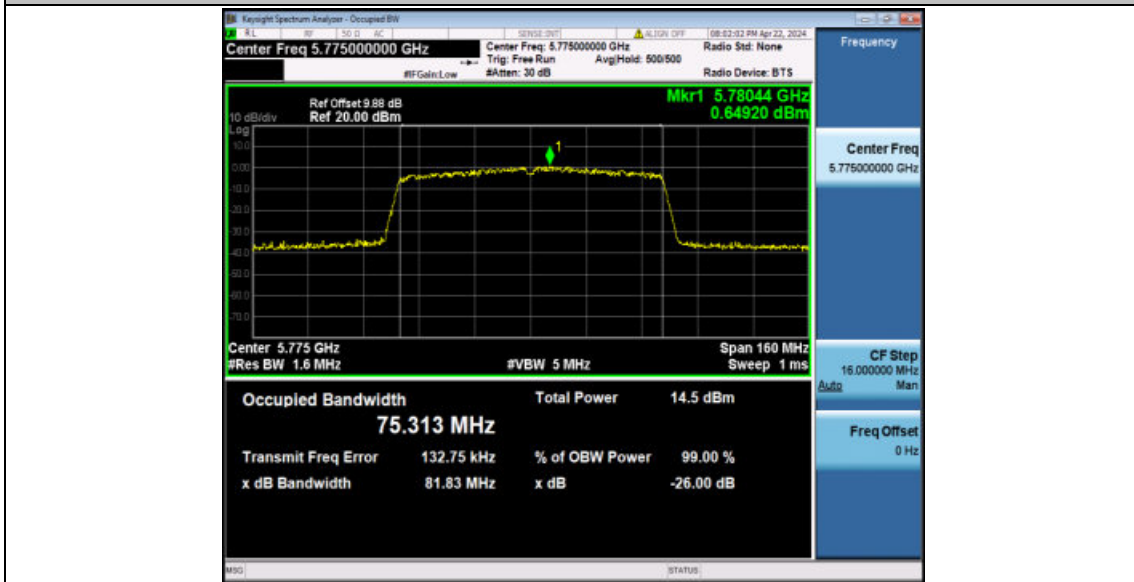
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775



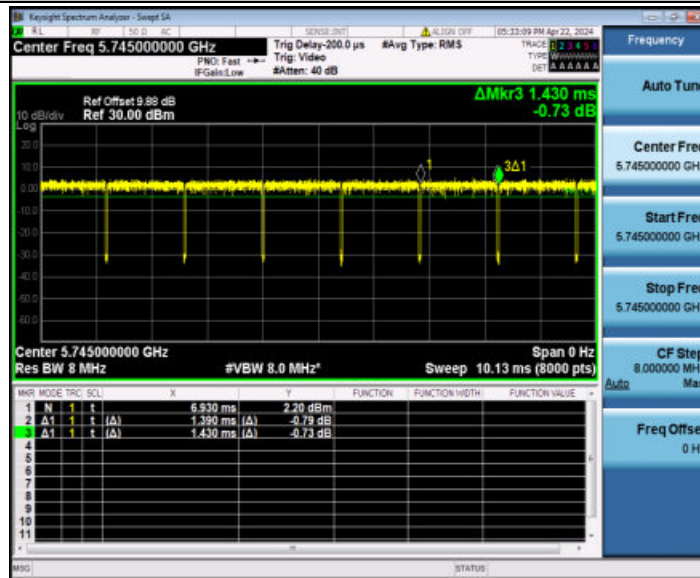
Appendix E.3: Duty Cycle

Test Result

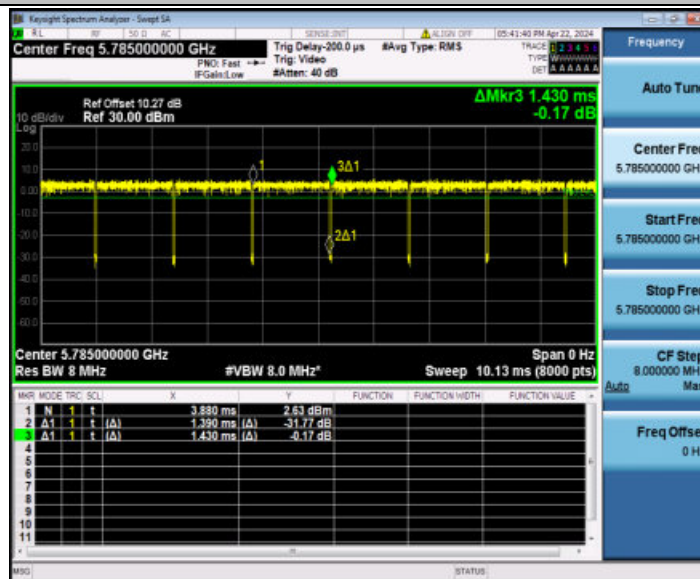
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5745	1.39	1.43	97.20	0.12	0.72
		5785	1.39	1.43	97.20	0.12	0.72
		5825	1.39	1.43	97.20	0.12	0.72
11N20SISO	Ant1	5745	1.30	1.33	97.74	0.10	0.77
		5785	1.29	1.33	96.99	0.13	0.78
		5825	1.30	1.33	97.74	0.10	0.77
11N40SISO	Ant1	5755	0.65	0.69	94.20	0.26	1.54
		5795	0.65	0.69	94.20	0.26	1.54
11AC20SISO	Ant1	5745	1.31	1.35	97.04	0.13	0.76
		5785	1.31	1.35	97.04	0.13	0.76
		5825	1.31	1.35	97.04	0.13	0.76
11AC40SISO	Ant1	5755	0.66	0.69	95.65	0.19	1.52
		5795	0.66	0.69	95.65	0.19	1.52
11AC80SISO	Ant1	5775	0.32	0.35	91.43	0.39	3.13

Test Graphs

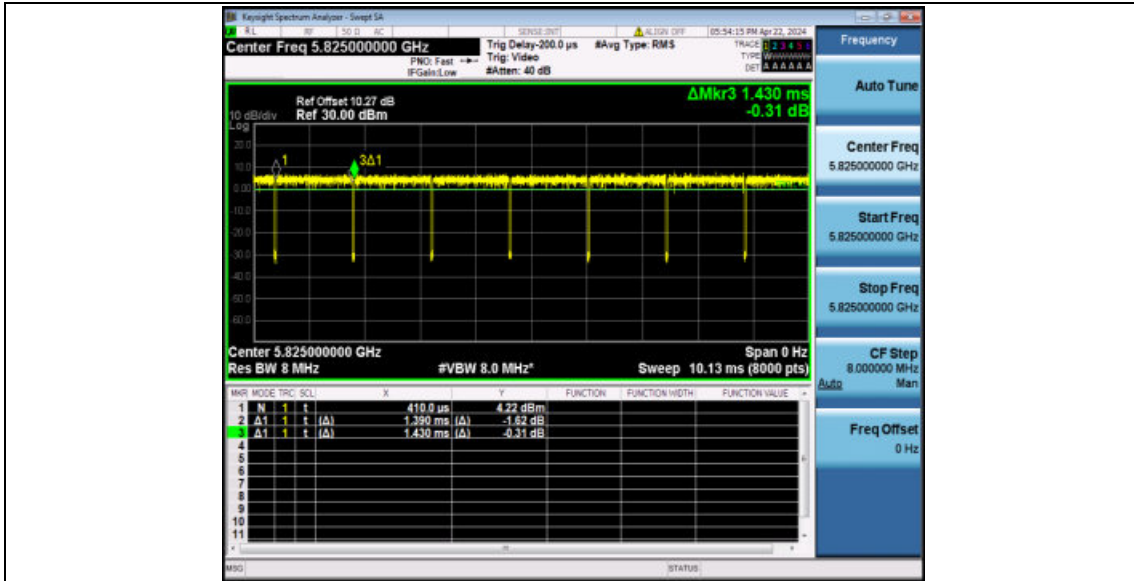
11A_Ant1_5745



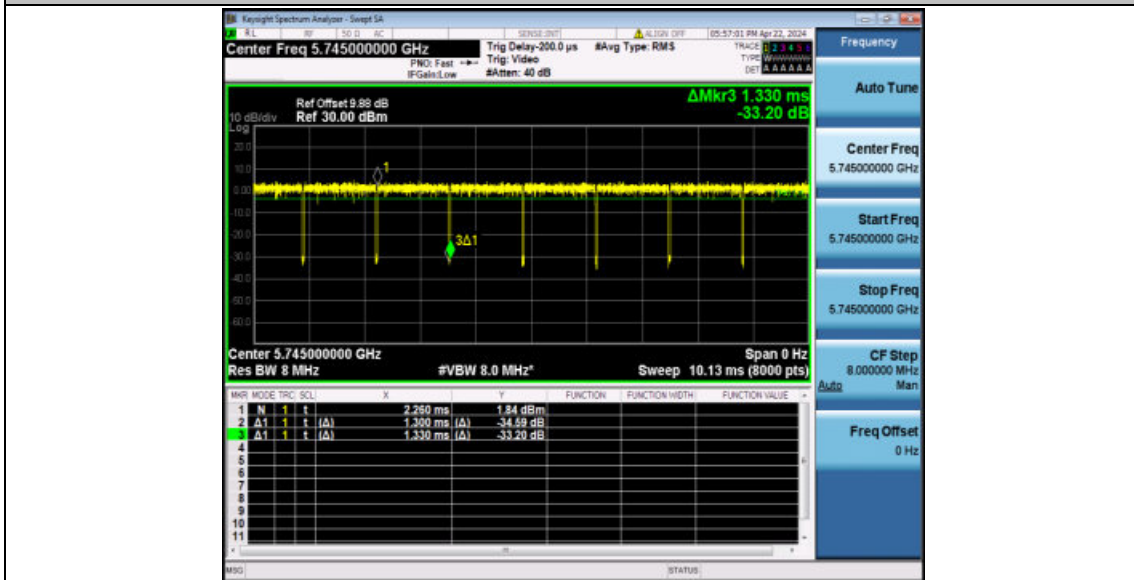
11A_Ant1_5785



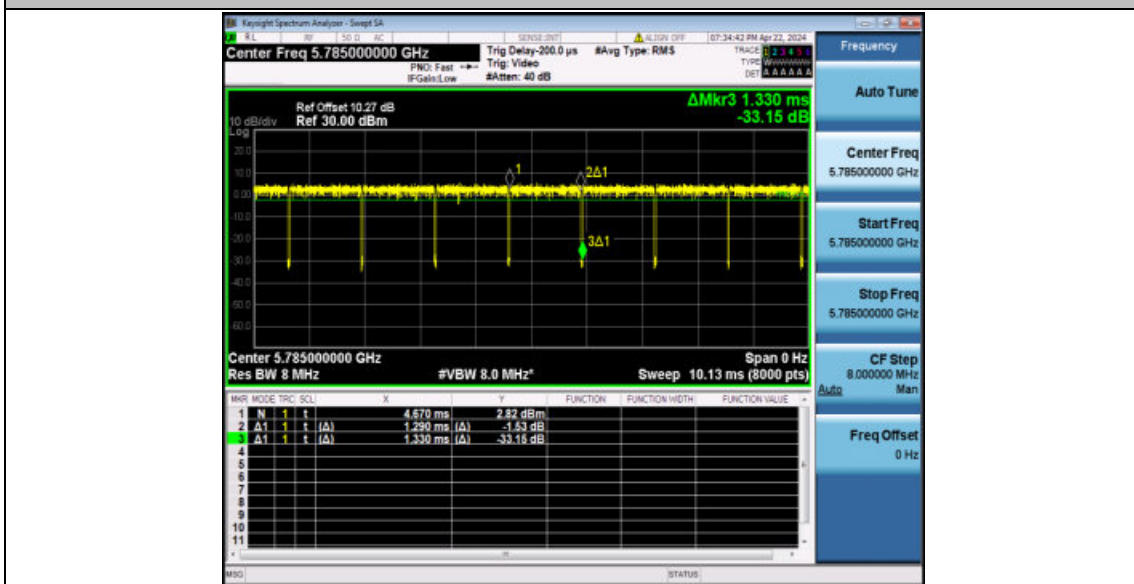
11A_Ant1_5825



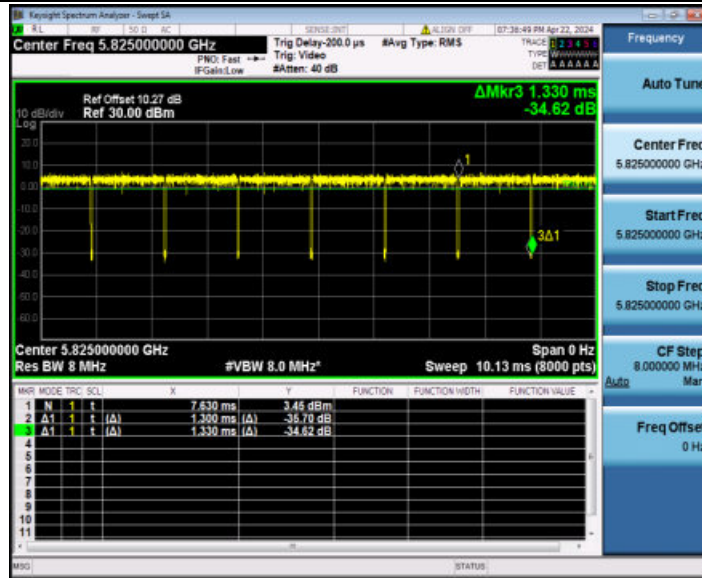
11N20SISO_Ant1_5745



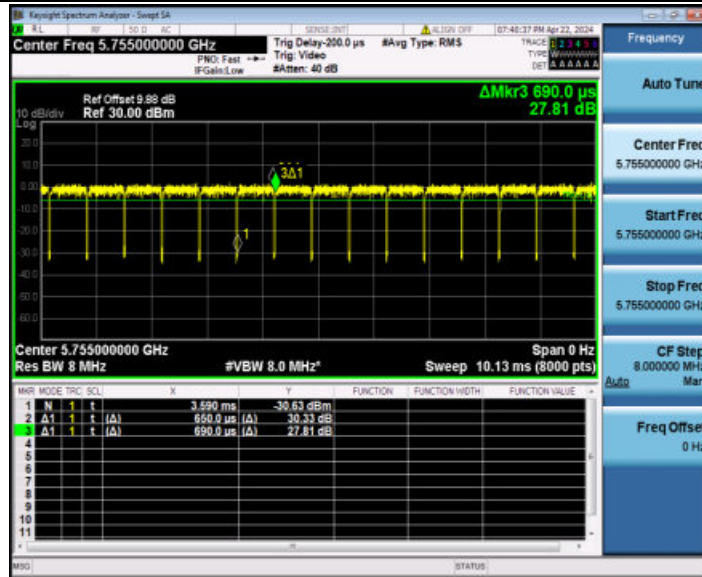
11N20SISO_Ant1_5785



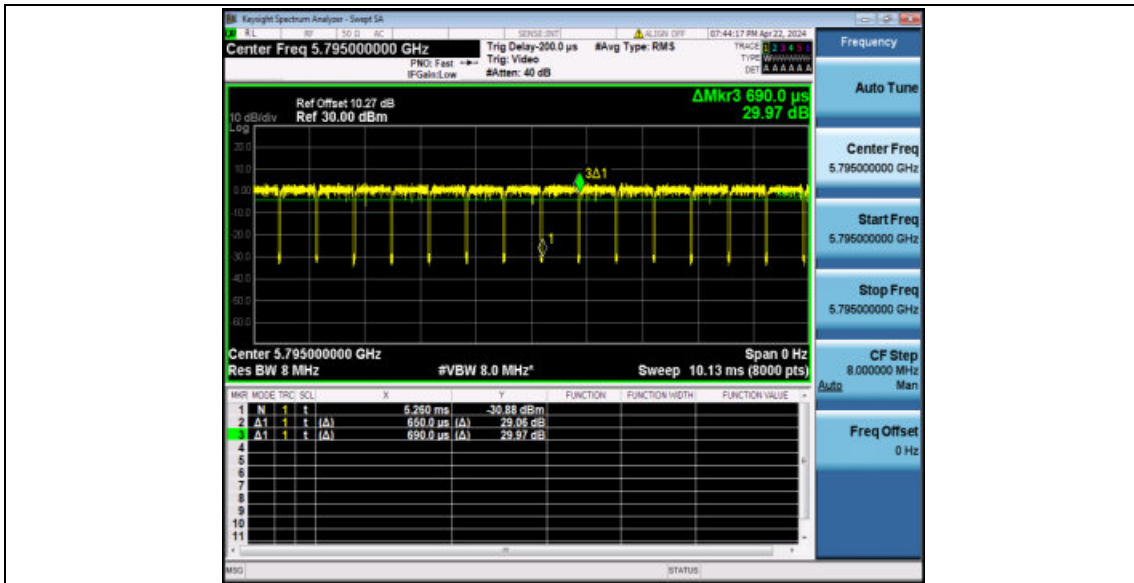
11N20SISO_Ant1_5825



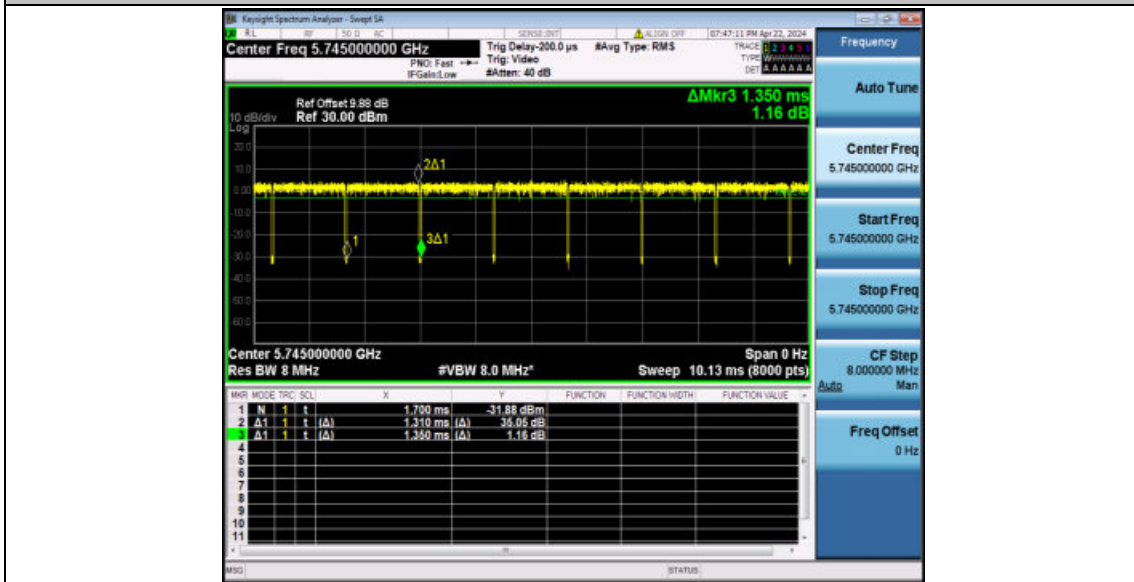
11N40SISO_Ant1_5755



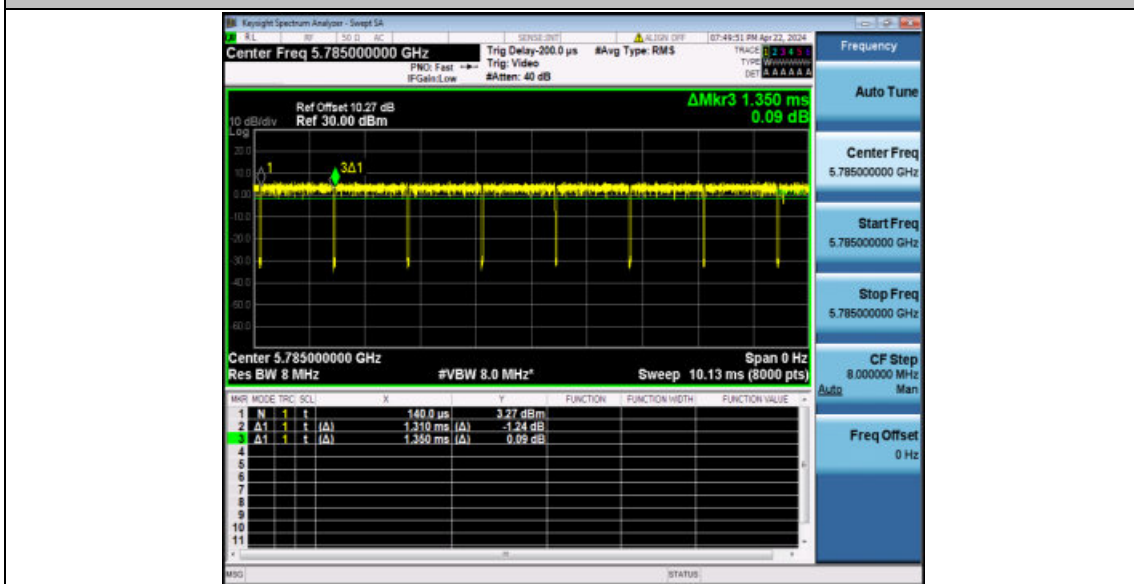
11N40SISO_Ant1_5795



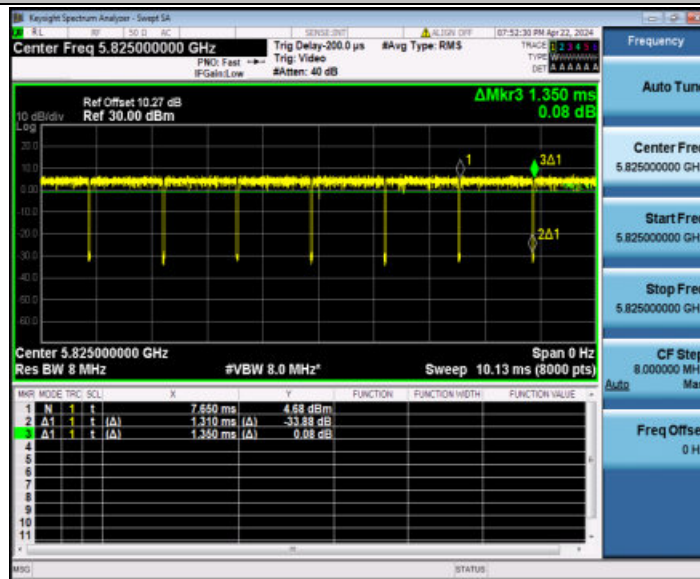
11AC20SISO_Ant1_5745



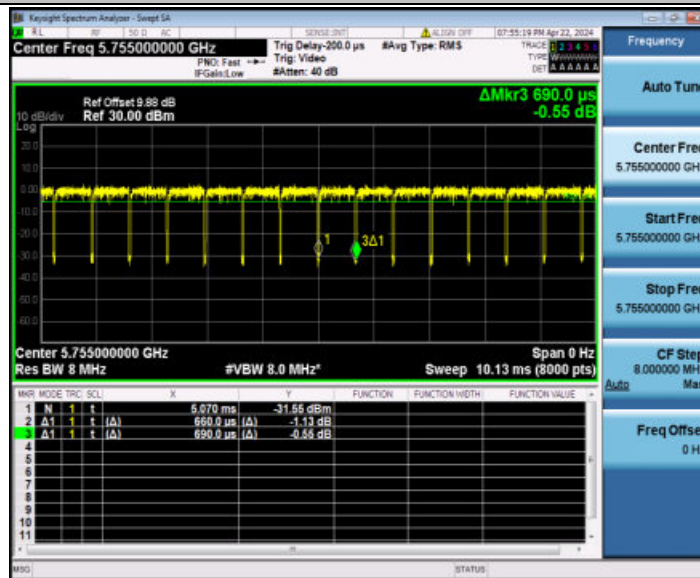
11AC20SISO_Ant1_5785



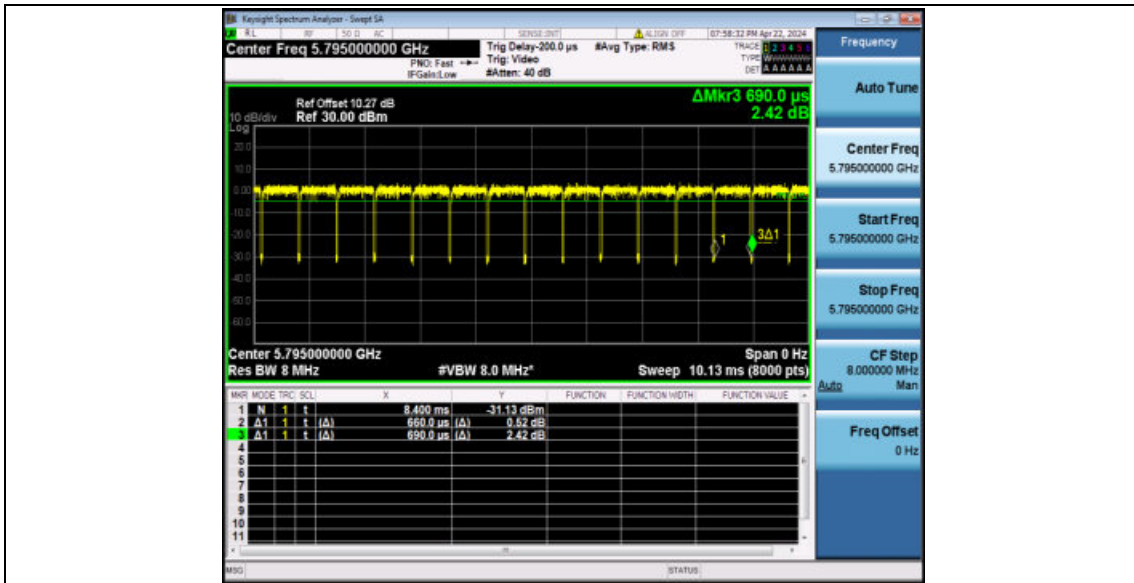
11AC20SISO_Ant1_5825



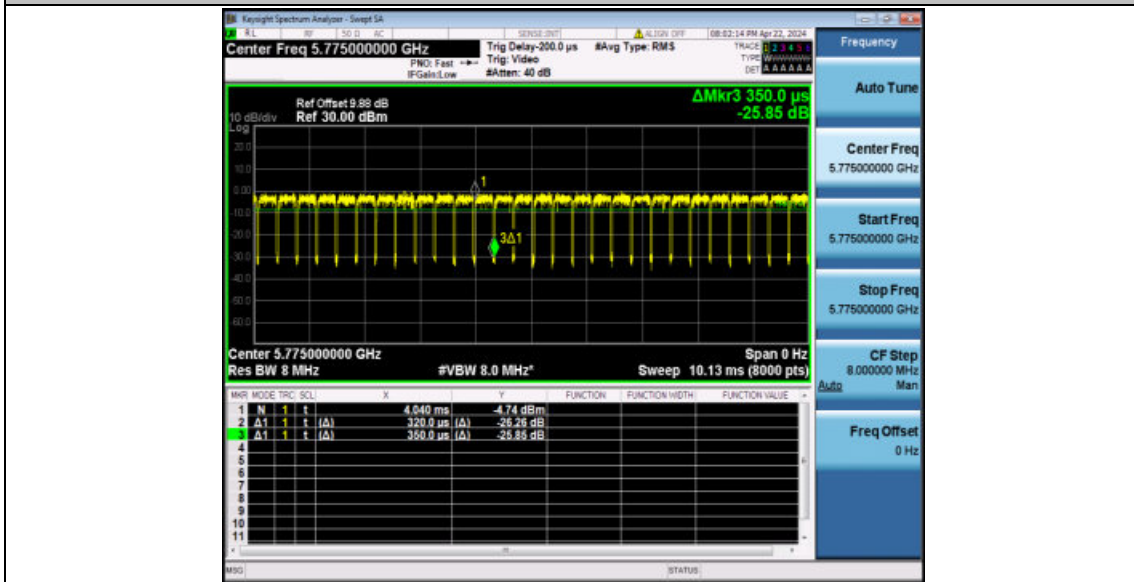
11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775



Appendix E.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	5.92	97.20	0.12	6.04	≤30.00	PASS
		5785	6.34	97.20	0.12	6.46	≤30.00	PASS
		5825	6.79	97.20	0.12	6.91	≤30.00	PASS
11N20SISO	Ant1	5745	6.21	97.74	0.10	6.31	≤30.00	PASS
		5785	6.42	96.99	0.13	6.55	≤30.00	PASS
		5825	6.71	97.74	0.10	6.81	≤30.00	PASS
11N40SISO	Ant1	5755	6.26	94.20	0.26	6.52	≤30.00	PASS
		5795	6.60	94.20	0.26	6.86	≤30.00	PASS
11AC20SISO	Ant1	5745	6.86	97.04	0.13	6.99	≤30.00	PASS
		5785	6.16	97.04	0.13	6.29	≤30.00	PASS
		5825	6.51	97.04	0.13	6.64	≤30.00	PASS
11AC40SISO	Ant1	5755	6.09	95.65	0.19	6.28	≤30.00	PASS
		5795	6.72	95.65	0.19	6.91	≤30.00	PASS
11AC80SISO	Ant1	5775	6.03	91.43	0.39	6.42	≤30.00	PASS

Note:

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

Appendix E.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-8.85	≤30.00	PASS
		5785	-7.75	≤30.00	PASS
		5825	-6.17	≤30.00	PASS
11N20SISO	Ant1	5745	-9.24	≤30.00	PASS
		5785	-7.88	≤30.00	PASS
		5825	-7.18	≤30.00	PASS
11N40SISO	Ant1	5755	-11.77	≤30.00	PASS
		5795	-9.93	≤30.00	PASS
11AC20SISO	Ant1	5745	-8.85	≤30.00	PASS
		5785	-7.12	≤30.00	PASS
		5825	-6.38	≤30.00	PASS
11AC40SISO	Ant1	5755	-11.28	≤30.00	PASS
		5795	-10.22	≤30.00	PASS
11AC80SISO	Ant1	5775	-13.96	≤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



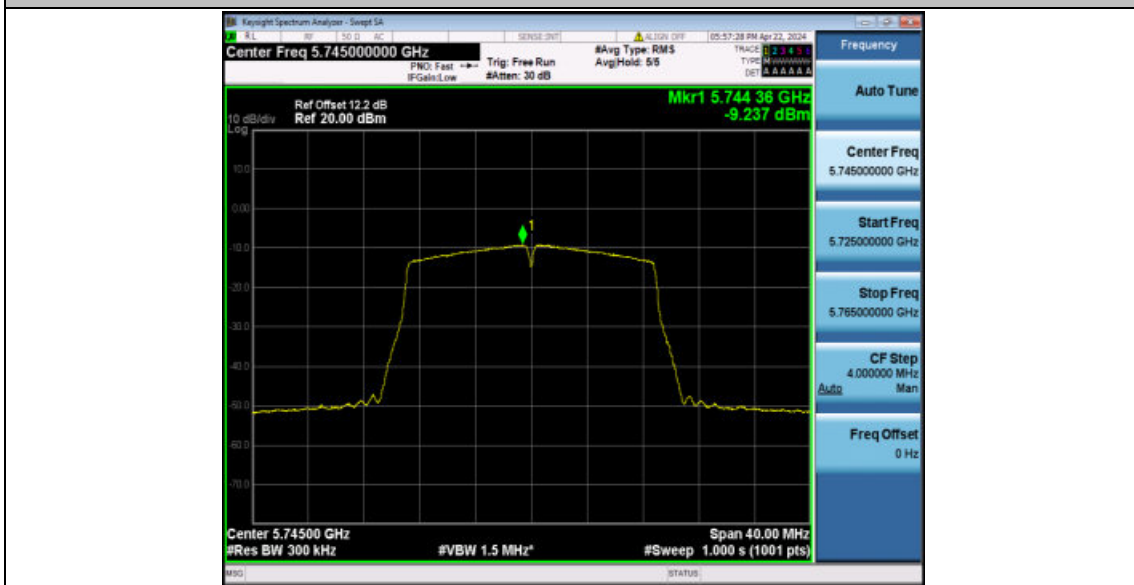
11A_Ant1_5785



11A_Ant1_5825



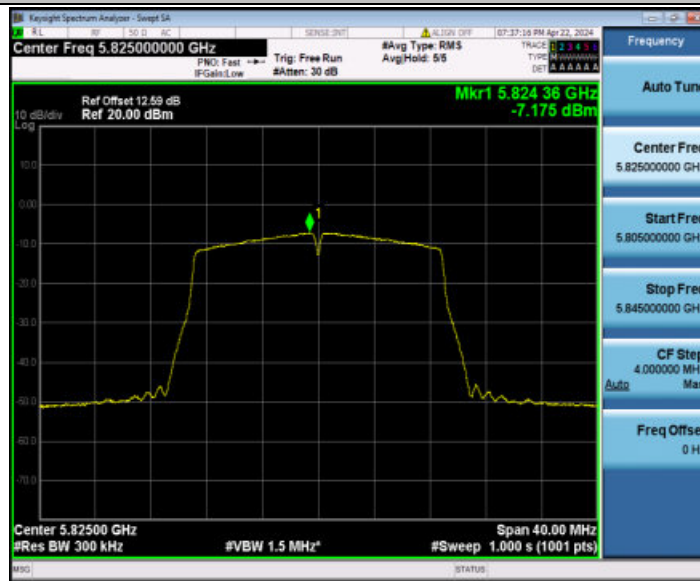
11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



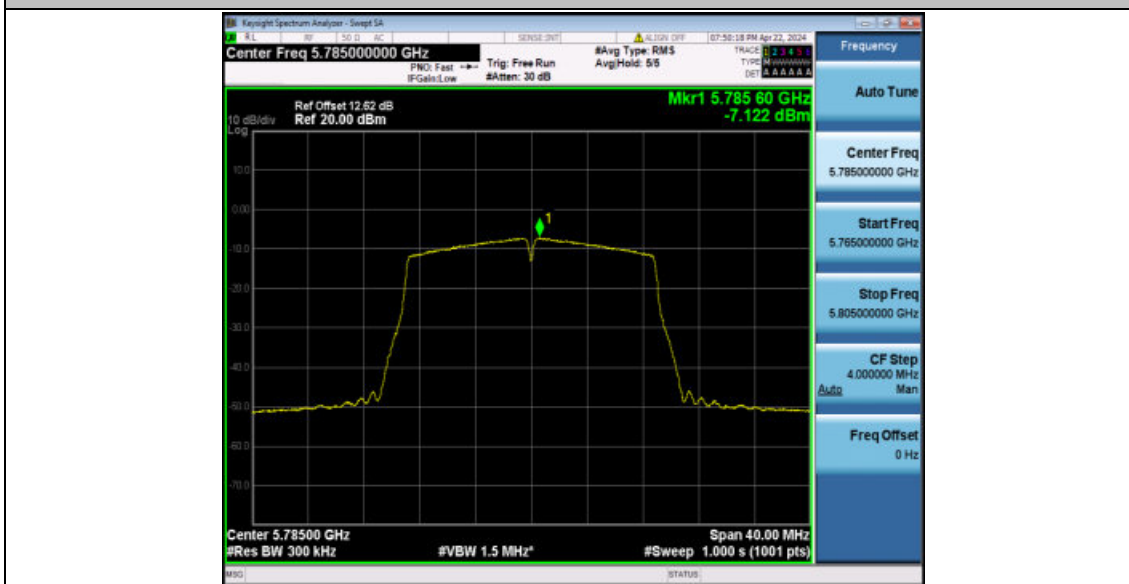
11N40SISO_Ant1_5795



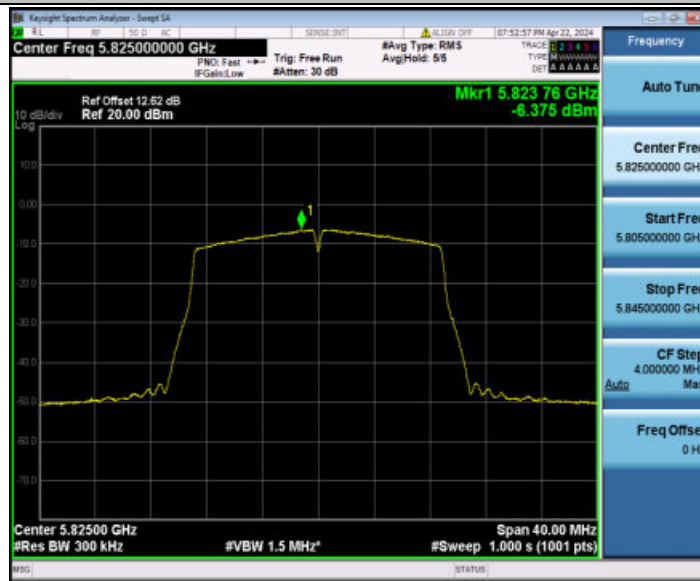
11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775



Appendix E.6: Band edge measurements

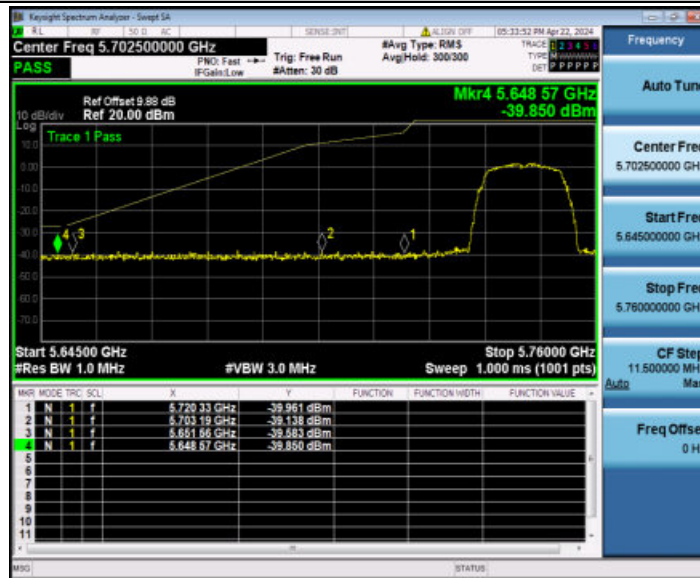
Test Result B4

TestMode	Antenna	ChName	Freq(MHz)	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-39.58	≤-25.85	PASS
				5700~5720	-39.14	≤10.89	PASS
				5720~5725	-39.96	≤16.34	PASS
				5760~5650	-39.85	≤-27	PASS
		High	5825	5850~5855	-38.96	≤16.96	PASS
				5855~5875	-39.28	≤10.06	PASS
				5875~5925	-38.53	≤-25.91	PASS
5925~5935	-38.45	≤-27	PASS				
11N20SI SO	Ant1	Low	5745	5650~5700	-40.29	≤-26.96	PASS
				5700~5720	-38.1	≤10.73	PASS
				5720~5725	-40.35	≤15.82	PASS
				5760~5650	-40.22	≤-27	PASS
		High	5825	5850~5855	-39.39	≤16.65	PASS
				5855~5875	-38.38	≤10.32	PASS
				5875~5925	-39.12	≤-26.51	PASS
5925~5935	-38.55	≤-27	PASS				
11N40SI SO	Ant1	Low	5755	5650~5700	-40.84	≤-26.60	PASS
				5700~5720	-39.18	≤10.44	PASS
				5720~5725	-38.44	≤15.74	PASS
				5780~5650	-40.03	≤-27	PASS
		High	5795	5850~5855	-39.82	≤15.66	PASS
				5855~5875	-37.31	≤10.80	PASS
				5875~5925	-39.04	≤-26.34	PASS
5925~5935	-38.35	≤-27	PASS				
11AC20S ISO	Ant1	Low	5745	5650~5700	-40.28	≤-26.70	PASS
				5700~5720	-39.65	≤10.02	PASS
				5720~5725	-39.91	≤15.82	PASS
				5760~5650	-39.18	≤-27	PASS
		High	5825	5850~5855	-39.35	≤15.73	PASS
				5855~5875	-38.91	≤10.25	PASS
				5875~5925	-39.57	≤-26.81	PASS
5925~5935	-38.33	≤-27	PASS				
11AC40S ISO	Ant1	Low	5755	5650~5700	-39.35	≤-26.30	PASS
				5700~5720	-38.75	≤10.67	PASS
				5720~5725	-39.23	≤15.74	PASS

				5780~5650	-38.7	≤ -27	PASS
		High	5795	5850~5855	-39.67	≤ 16.03	PASS
				5855~5875	-37.56	≤ 11.03	PASS
				5875~5925	-39.41	≤ -26.59	PASS
				5925~5935	-38.52	≤ -27	PASS
11AC80S ISO	Ant1	Low	5775	5650~5700	-39.14	≤ -25.77	PASS
				5700~5720	-37.78	≤ 10.74	PASS
				5720~5725	-38.17	≤ 16.71	PASS
				5800~5650	-39.6	≤ -27	PASS
		High	5775	5850~5855	-39.25	≤ 16.26	PASS
				5855~5875	-39.52	≤ 10.19	PASS
				5875~5925	-40.03	≤ -26.60	PASS
				5925~5935	-38.75	≤ -27	PASS

Test Graphs B4

11A_Ant1_Low_5745



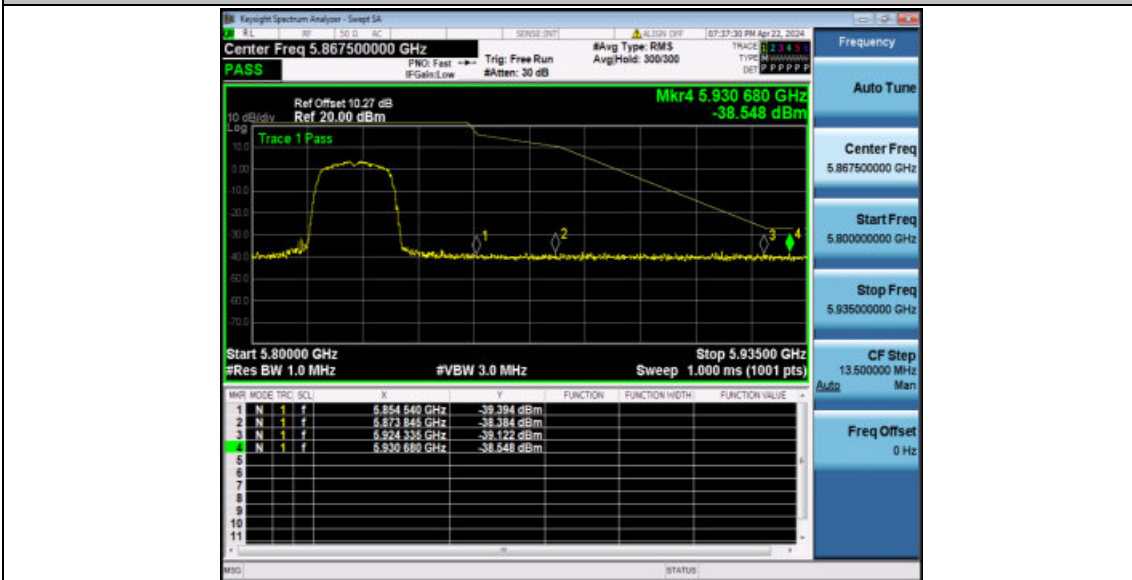
11A_Ant1_High_5825



11N20SISO_Ant1_Low_5745



11N20SISO_Ant1_High_5825



11N40SISO_Ant1_Low_5755



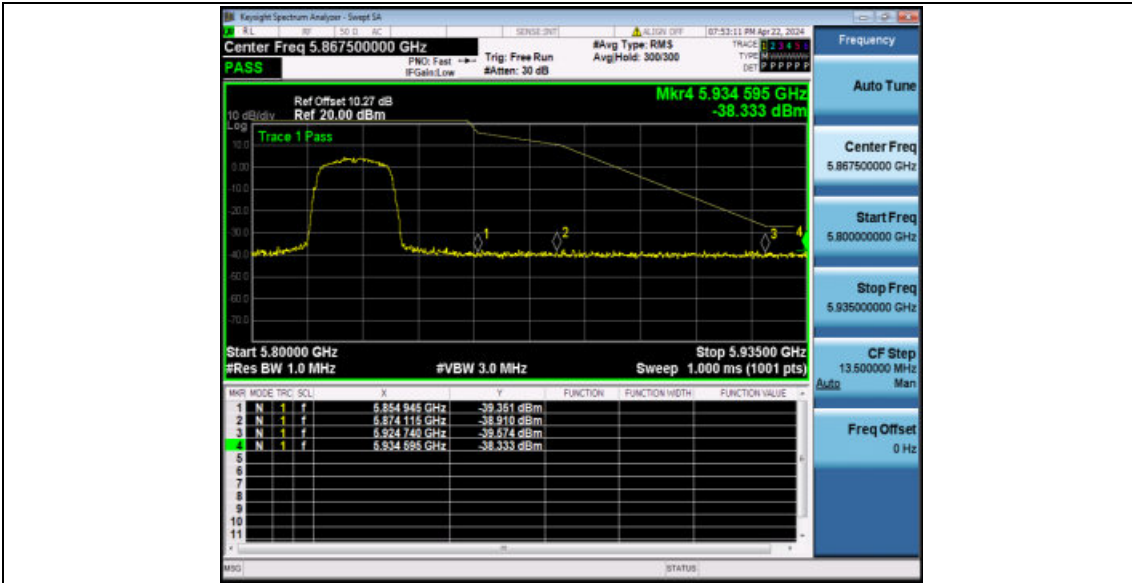
11N40SISO_Ant1_High_5795



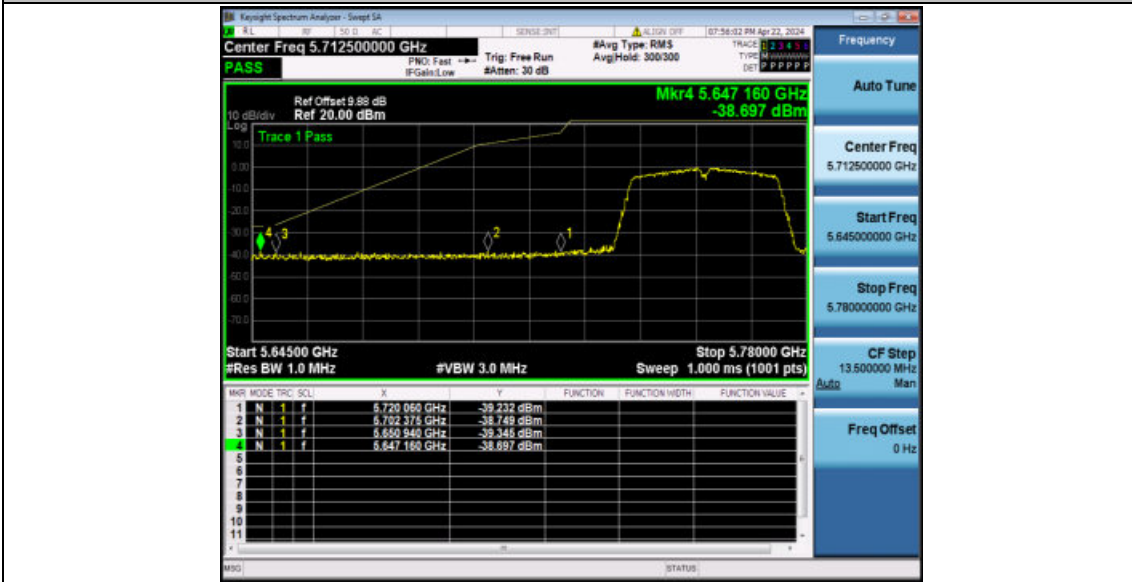
11AC20SISO_Ant1_Low_5745



11AC20SISO_Ant1_High_5825



11AC40SISO_Ant1_Low_5755



11AC40SISO_Ant1_High_5795



11AC80SISO_Ant1_Low_5775



11AC80SISO_Ant1_High_5775



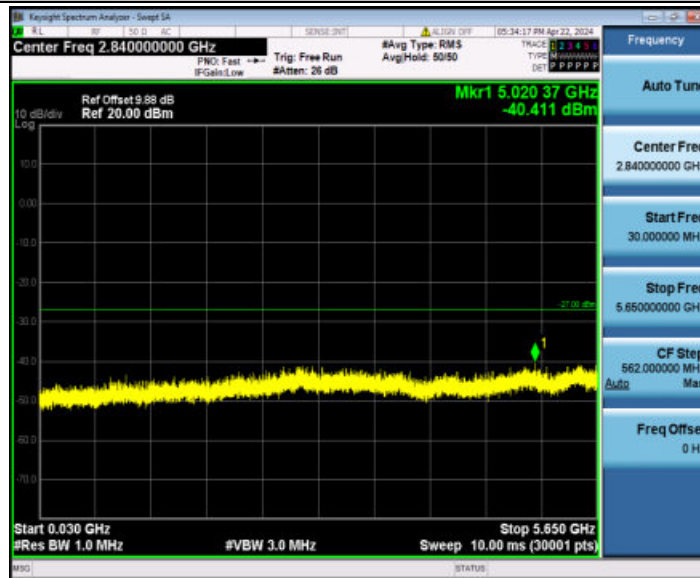
Appendix E.7: Conducted Spurious Emission

Test Result

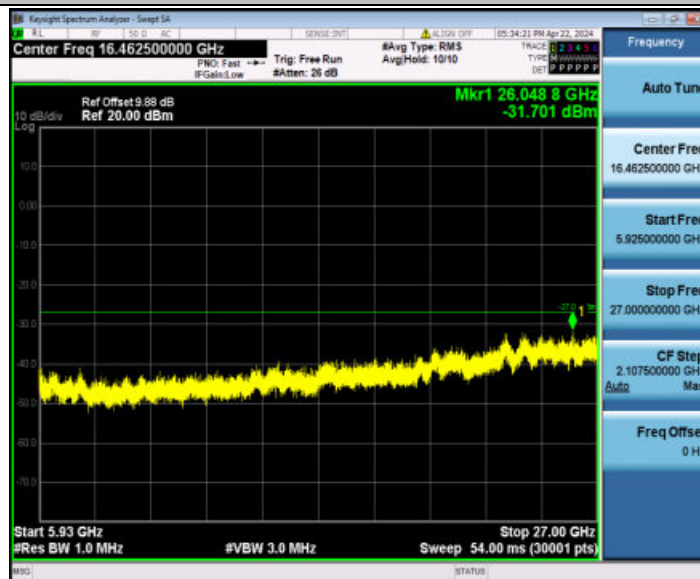
TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	30~5650	5020.37	-40.41	≤-27	PASS
			5925~40000	26048.82	-31.7	≤-27	PASS
		5785	30~5650	5460.04	-39.72	≤-27	PASS
			5925~40000	24191.41	-31.71	≤-27	PASS
		5825	30~5650	4904.04	-39.6	≤-27	PASS
			5925~40000	26970.5	-31.43	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	4948.62	-40.1	≤-27	PASS
			5925~40000	24796.26	-32.16	≤-27	PASS
		5785	30~5650	4995.46	-39.36	≤-27	PASS
			5925~40000	24249.71	-31.2	≤-27	PASS
		5825	30~5650	4913.22	-39.88	≤-27	PASS
			5925~40000	26063.57	-32	≤-27	PASS
11N40SISO	Ant1	5755	30~5650	4963.61	-39.91	≤-27	PASS
			5925~40000	23513.49	-31.43	≤-27	PASS
		5795	30~5650	5517.93	-40.37	≤-27	PASS
			5925~40000	24270.09	-31.57	≤-27	PASS
11AC20SISO	Ant1	5745	30~5650	3185.26	-39.95	≤-27	PASS
			5925~40000	24146.45	-32.41	≤-27	PASS
		5785	30~5650	5467.91	-39.28	≤-27	PASS
			5925~40000	26624.87	-31.77	≤-27	PASS
		5825	30~5650	5445.62	-40.64	≤-27	PASS
			5925~40000	24251.82	-31.55	≤-27	PASS
11AC40SISO	Ant1	5755	30~5650	5534.04	-39.41	≤-27	PASS
			5925~40000	24891.1	-32.11	≤-27	PASS
		5795	30~5650	4961.36	-39.49	≤-27	PASS
			5925~40000	23502.25	-31.4	≤-27	PASS
11AC80SISO	Ant1	5775	30~5650	5466.6	-40.43	≤-27	PASS
			5925~40000	26671.23	-31.17	≤-27	PASS

Test Graphs

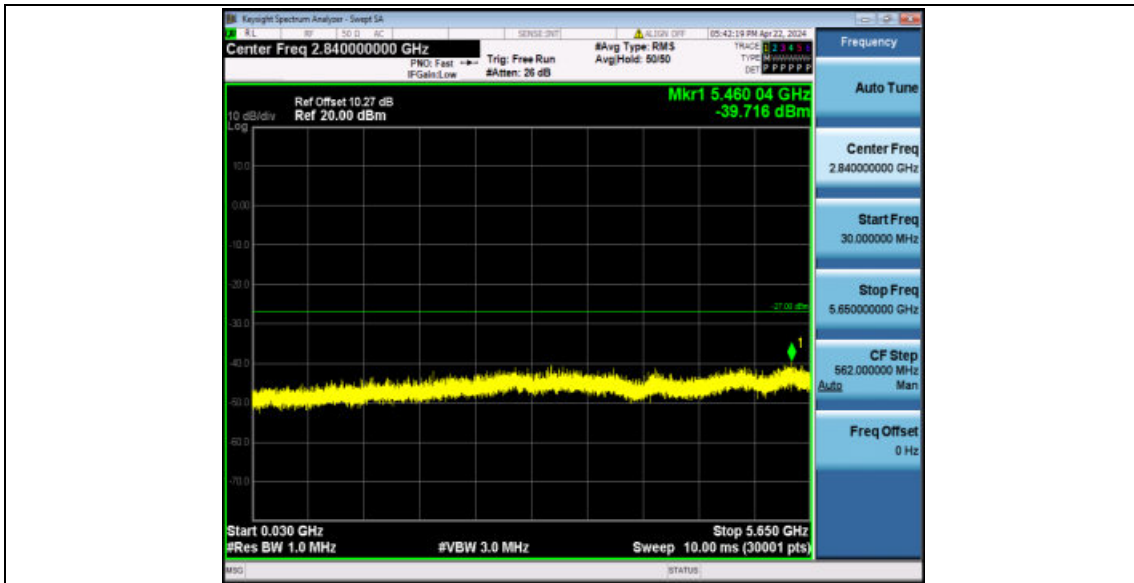
11A_Ant1_5745_30~5650



11A_Ant1_5745_5925~40000



11A_Ant1_5785_30~5650



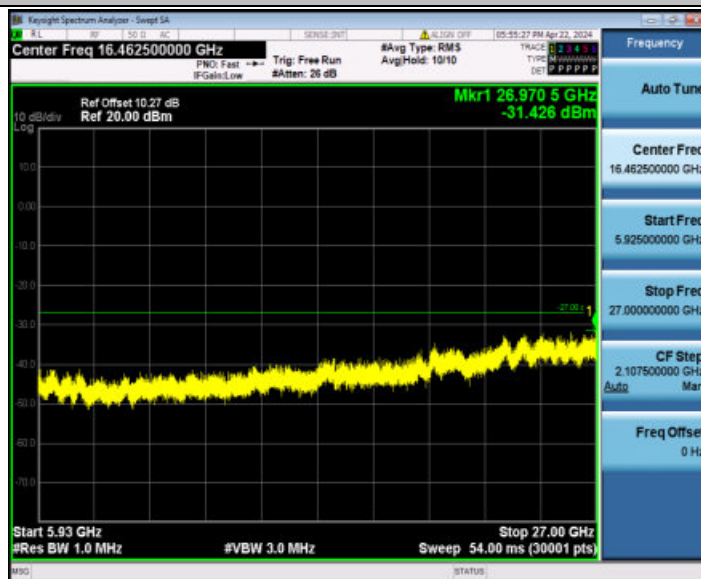
11A_Ant1_5785_5925~40000



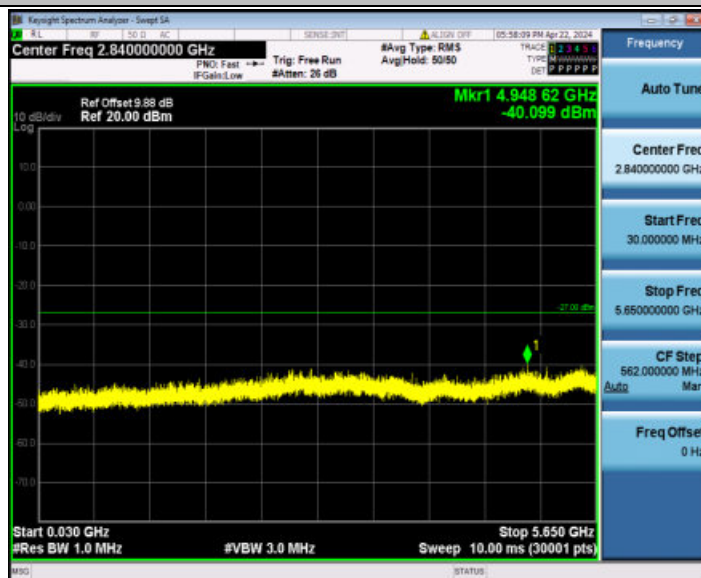
11A_Ant1_5825_30~5650



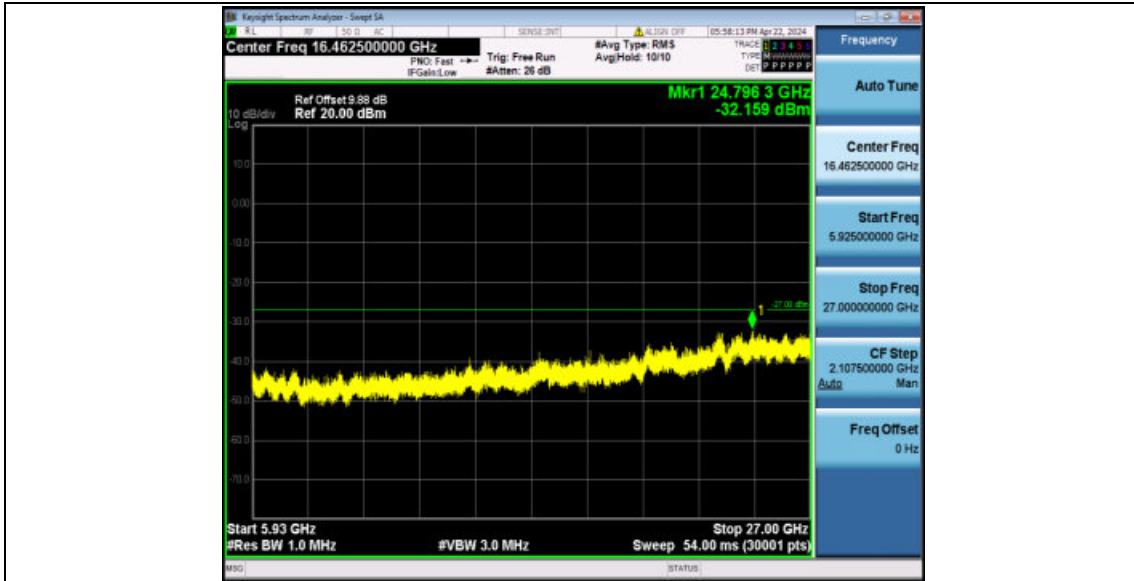
11A_Ant1_5825_5925~40000



11N20SISO_Ant1_5745_30~5650



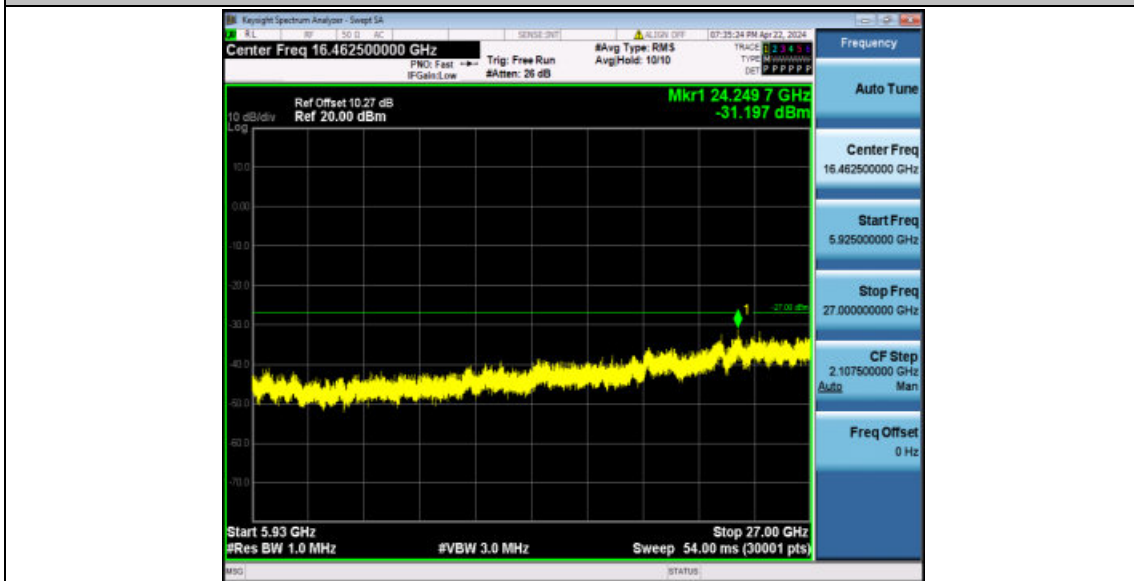
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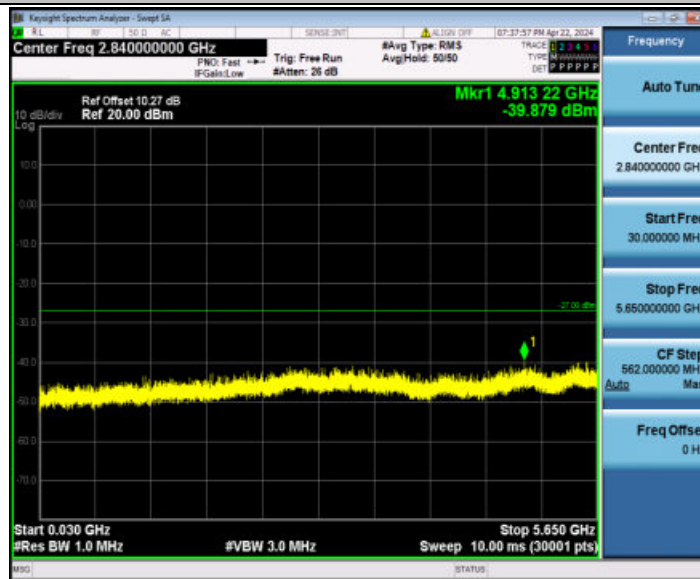
11N20SISO_Ant1_5785_30~5650



11N20SISO_Ant1_5785_5925~40000



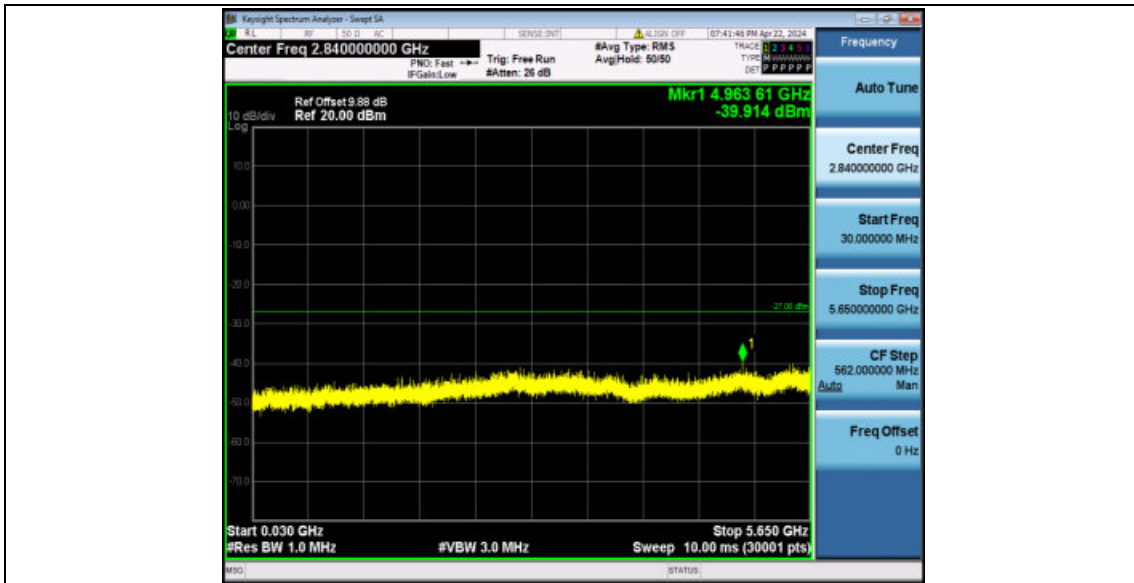
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11N20SISO_Ant1_5825_5925~40000



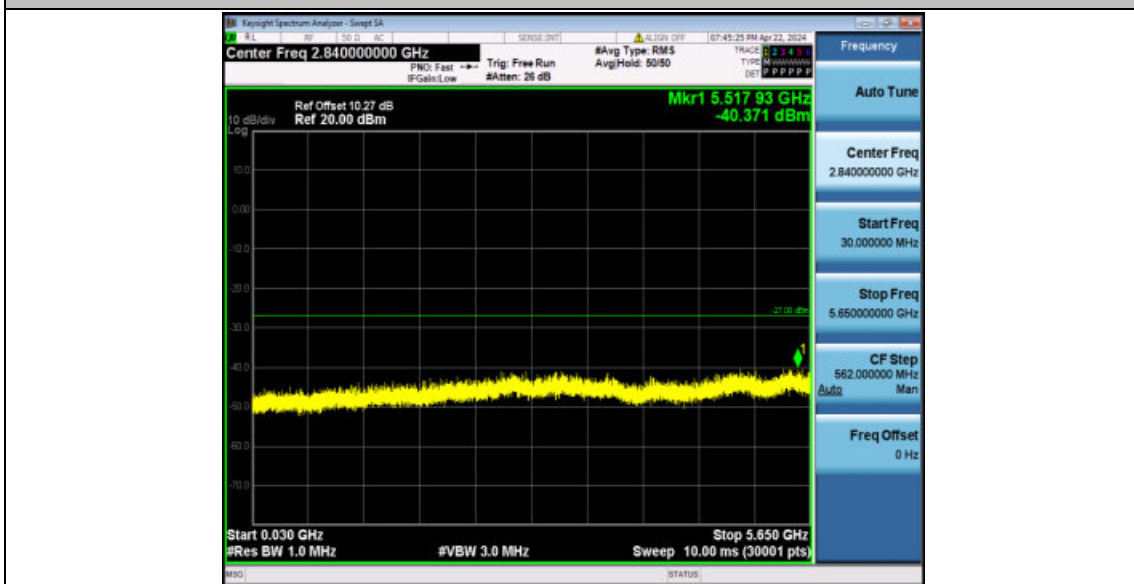
11N40SISO_Ant1_5755_30~5650



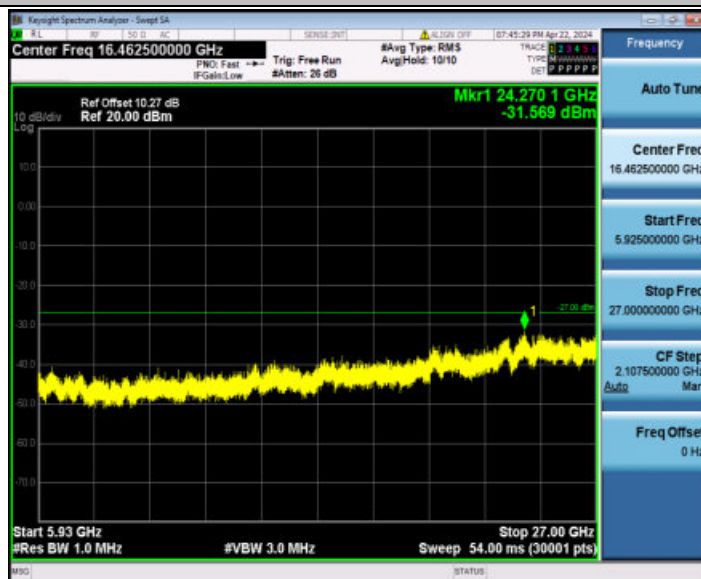
11N40SISO_Ant1_5755_5925-40000



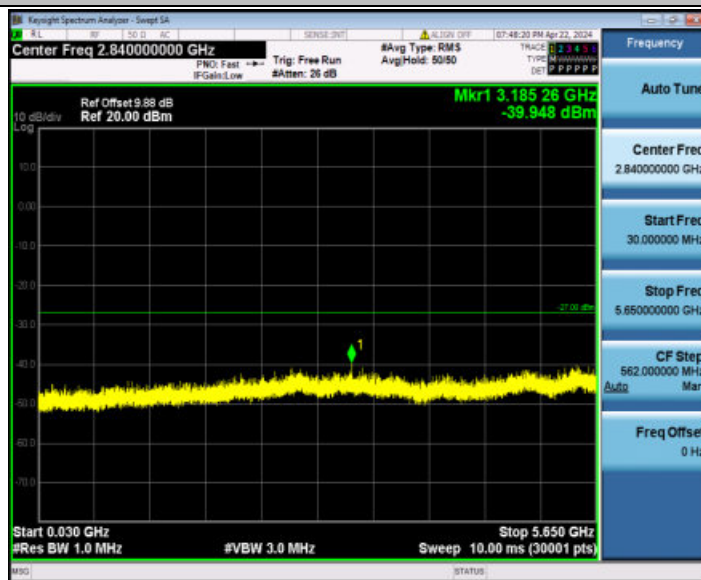
11N40SISO_Ant1_5795_30~5650



11N40SISO_Ant1_5795_5925~40000



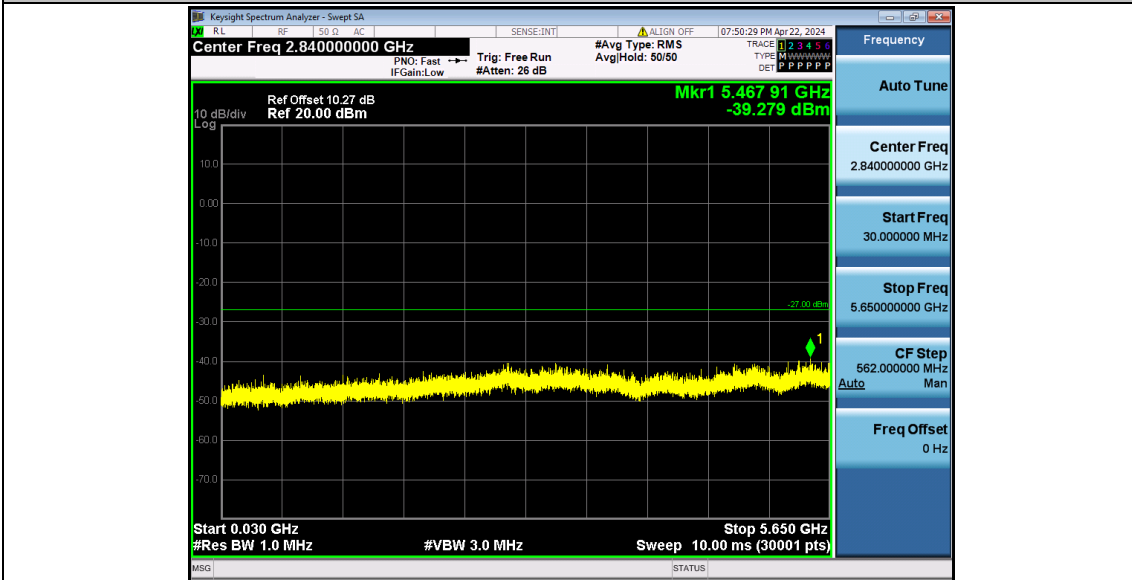
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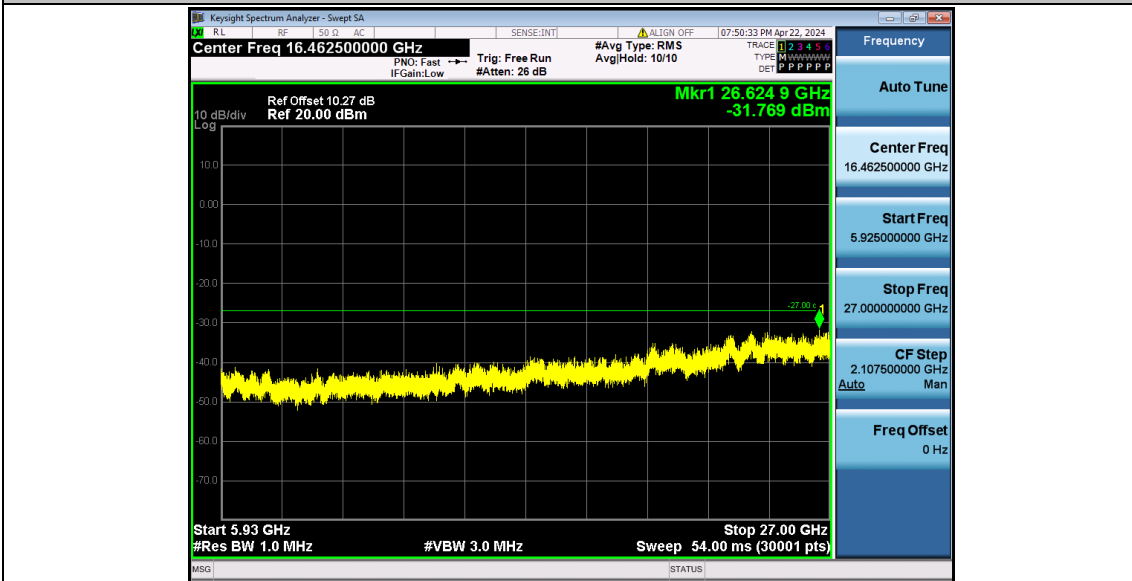
11AC20SISO_Ant1_5745_5925~40000



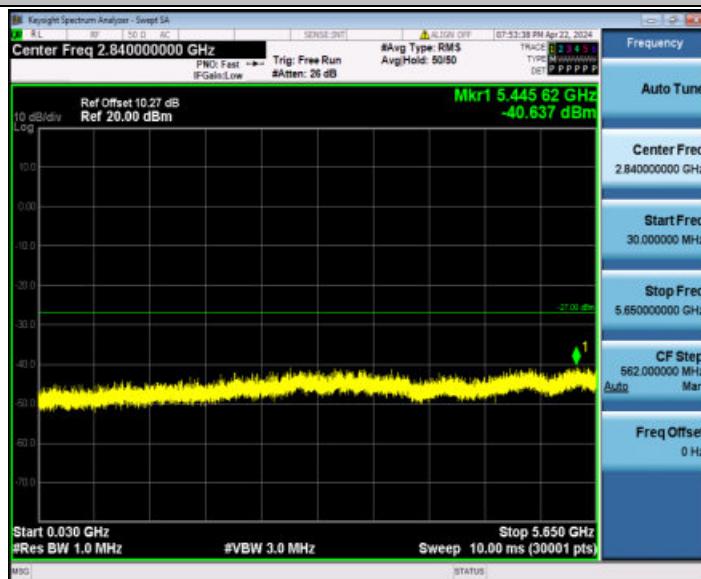
11AC20SISO_Ant1_5785_30~5650



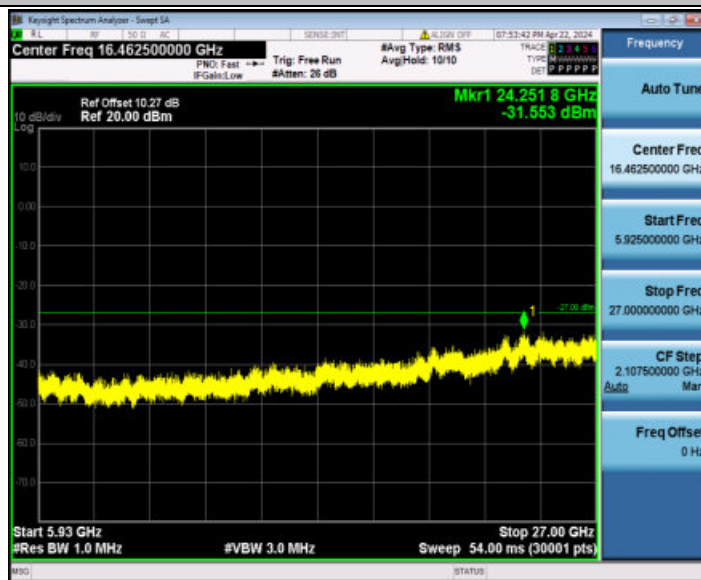
11AC20SISO_Ant1_5785_5925~40000



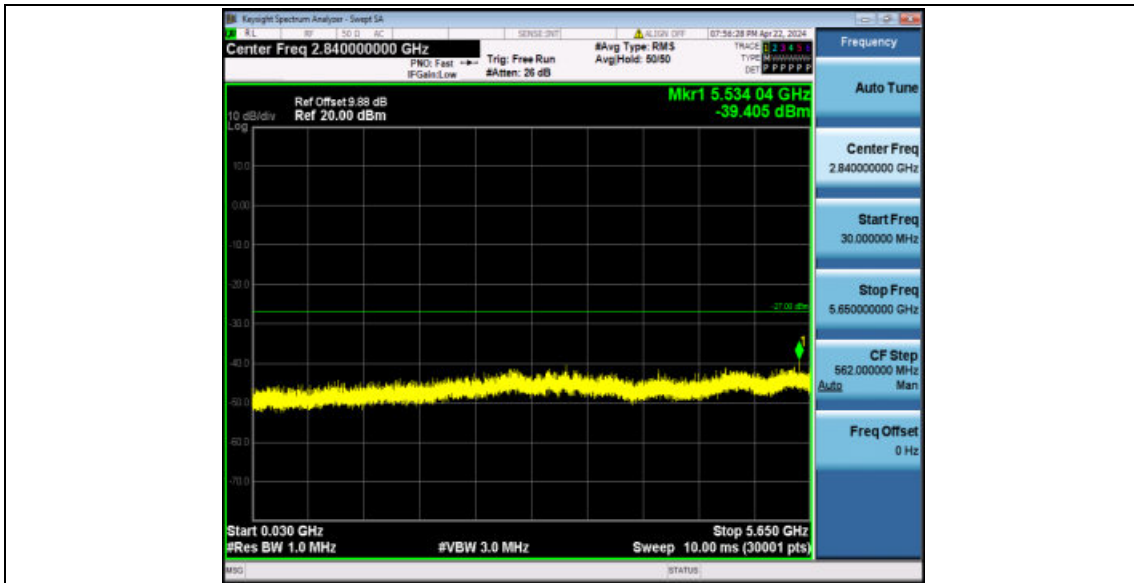
11AC20SISO_Ant1_5825_30~5650



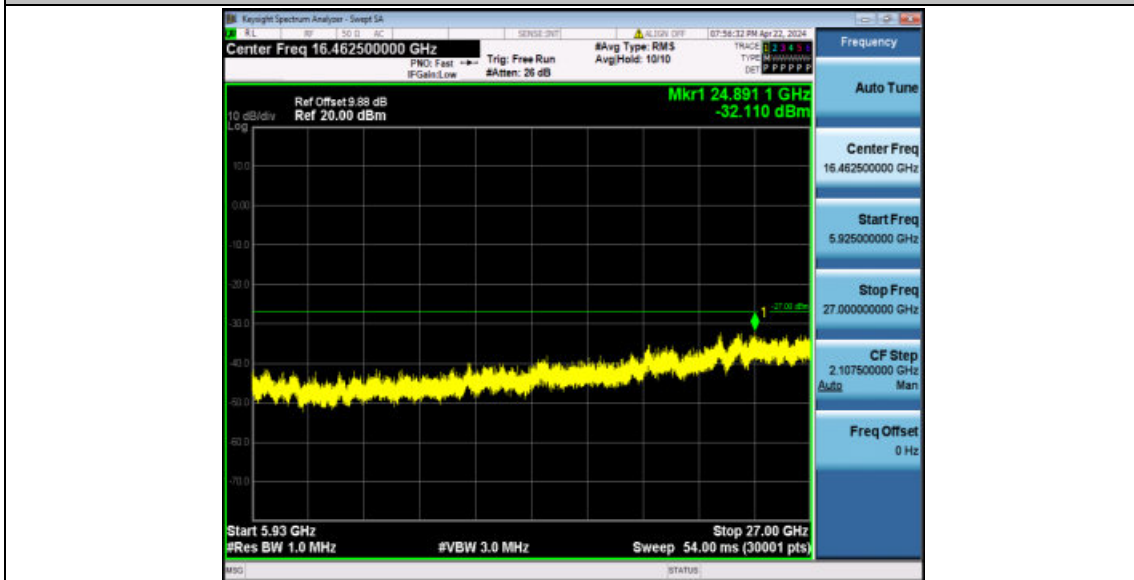
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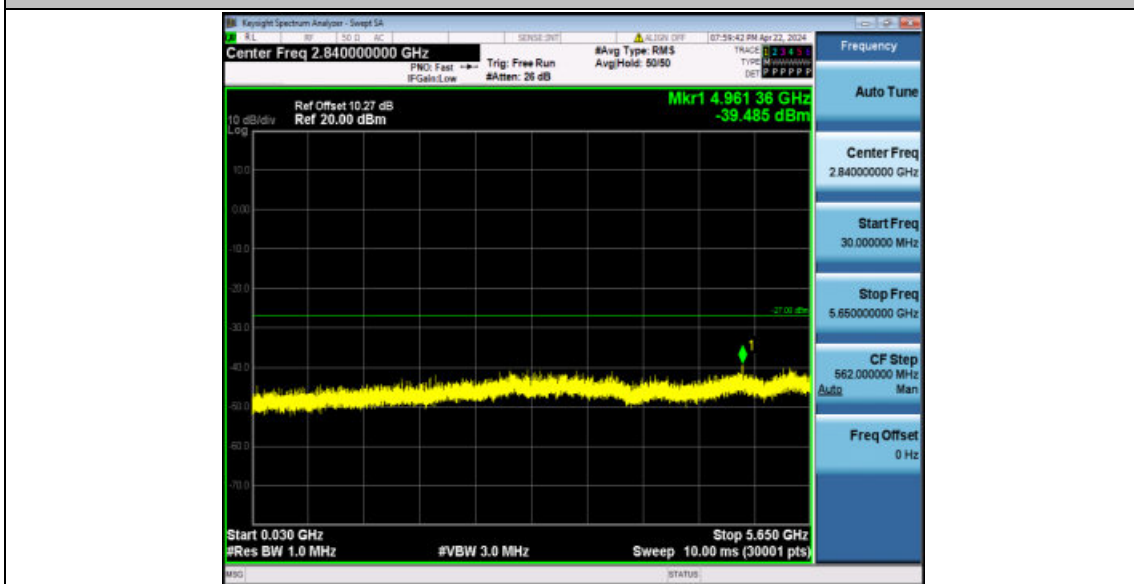
11AC40SISO_Ant1_5755_30~5650



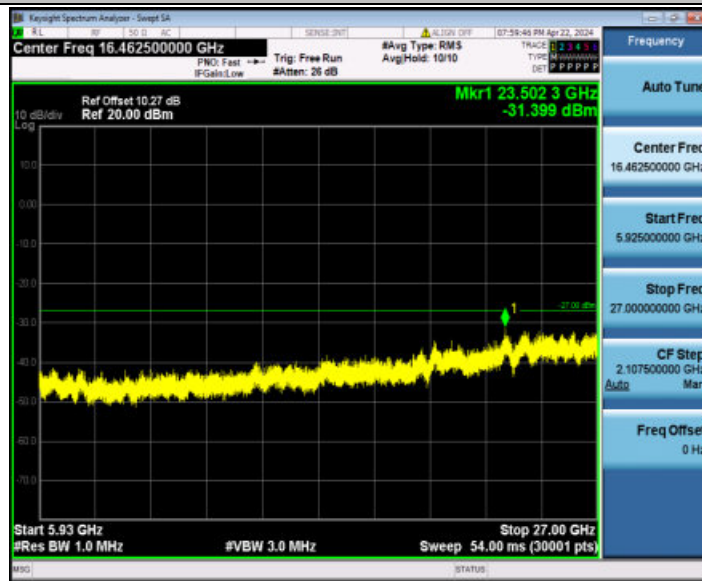
11AC40SISO_Ant1_5755_5925~4000



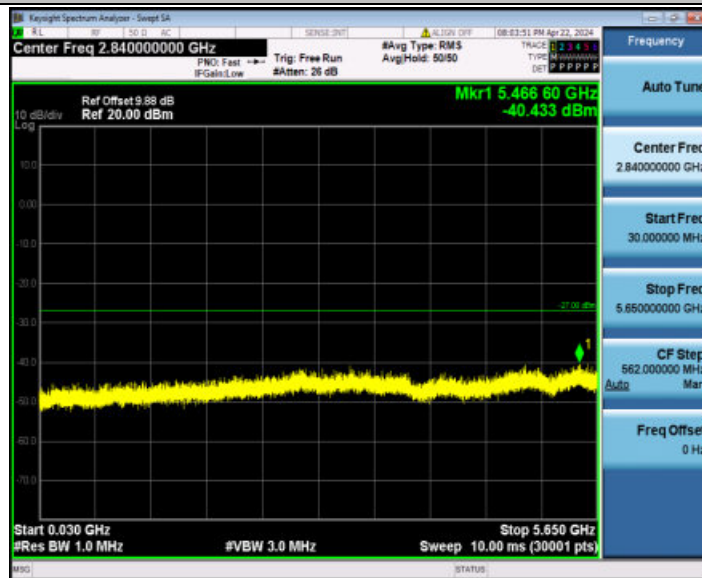
11AC40SISO_Ant1_5795_30~5650



11AC40SISO_Ant1_5795_5925~40000



11AC80SISO_Ant1_5775_30~5650



11AC80SISO_Ant1_5775_5925~40000

