

Case No. : <u>CTA24081600604</u>	
Ambient Condition: <u>22</u> °C, <u>53</u> %RH	
According Standard: ■PART 15E	
Test Date: <u>2024.8.13</u>	Test Engineer: <u>Lushan Kong</u>

Appendix E.1: Min emission bandwidth

Test Result B4

TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.400	5737.080	5752.480	0.5	PASS
		5785	15.080	5777.440	5792.520	0.5	PASS
		5825	15.160	5817.400	5832.560	0.5	PASS
11N20SISO	Ant1	5745	15.080	5737.400	5752.480	0.5	PASS
		5785	15.160	5777.400	5792.560	0.5	PASS
		5825	15.120	5817.440	5832.560	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	15.160	5737.400	5752.560	0.5	PASS
		5785	15.080	5777.400	5792.480	0.5	PASS
		5825	15.040	5817.440	5832.480	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

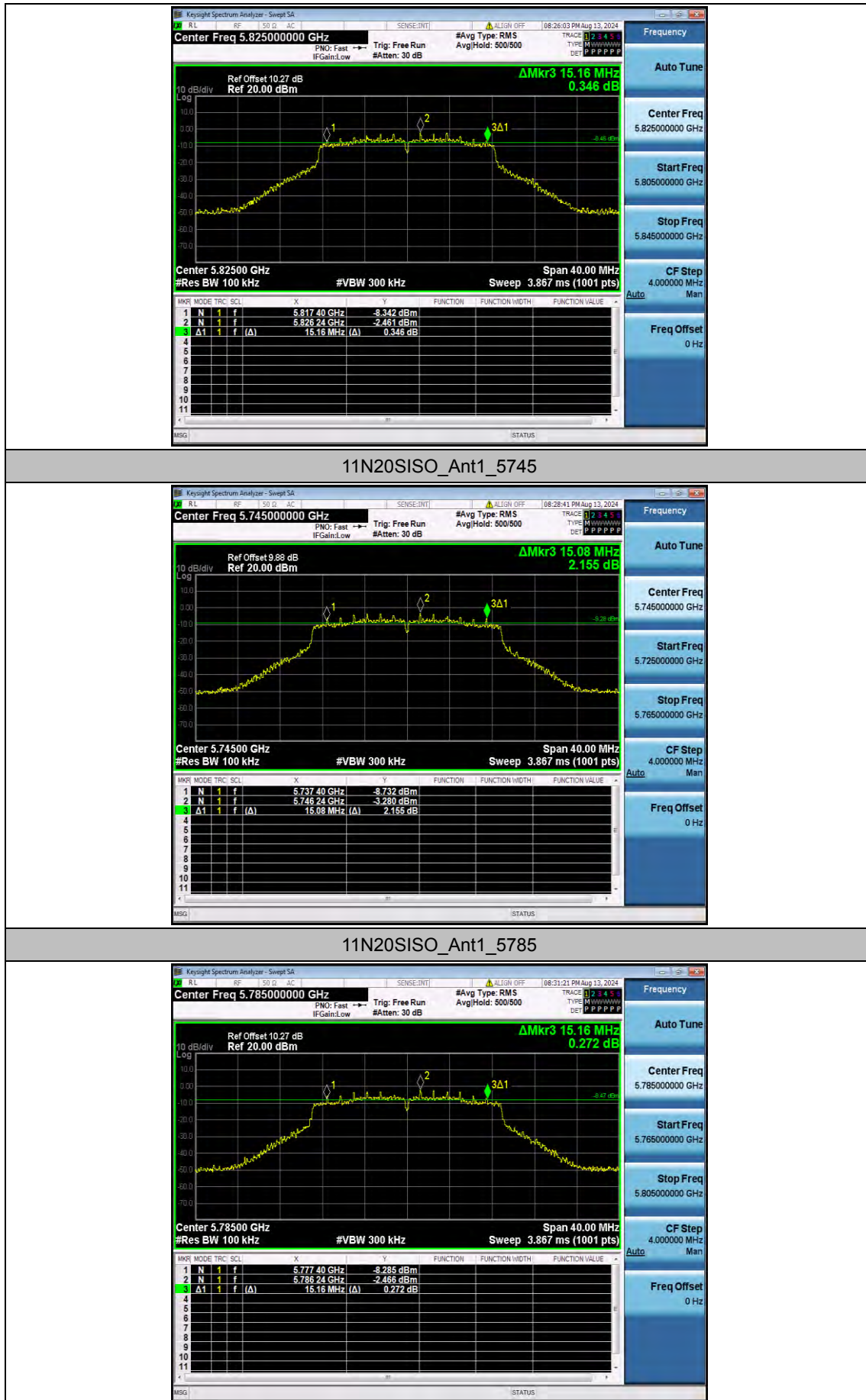
11A_Ant1_5745



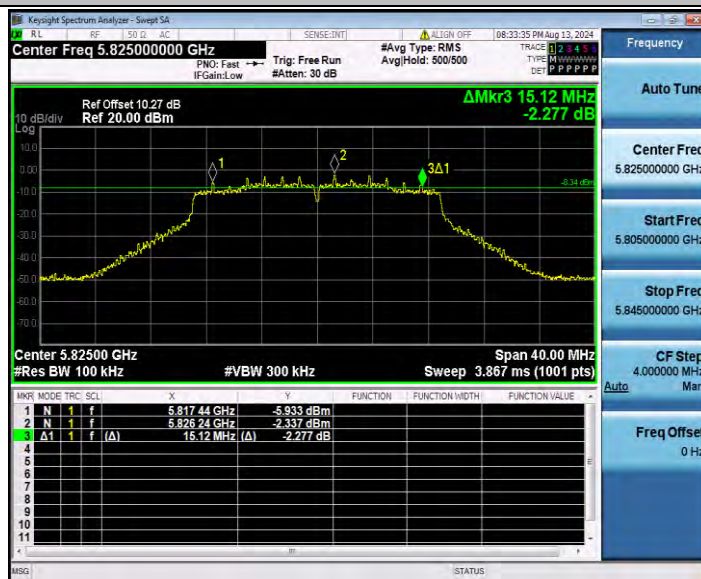
11A_Ant1_5785



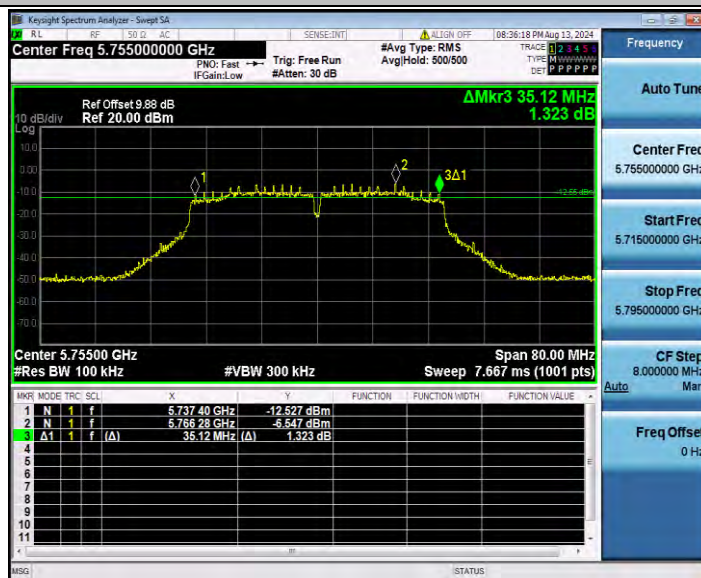
11A_Ant1_5825



11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



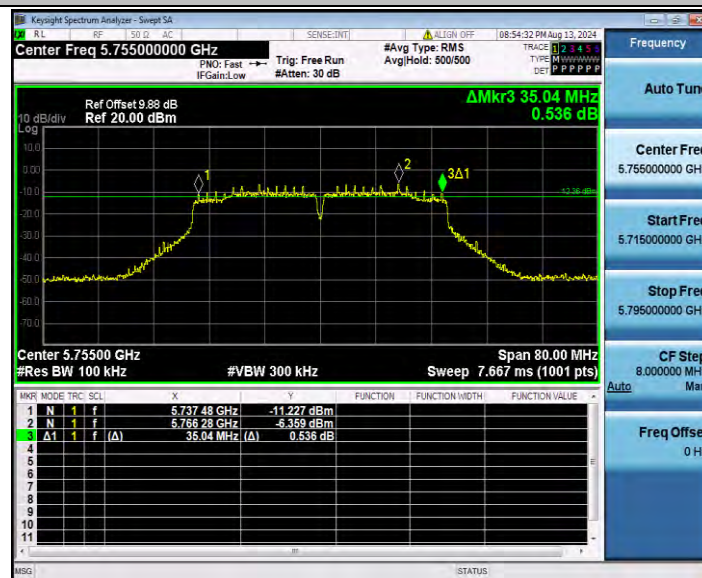
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11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



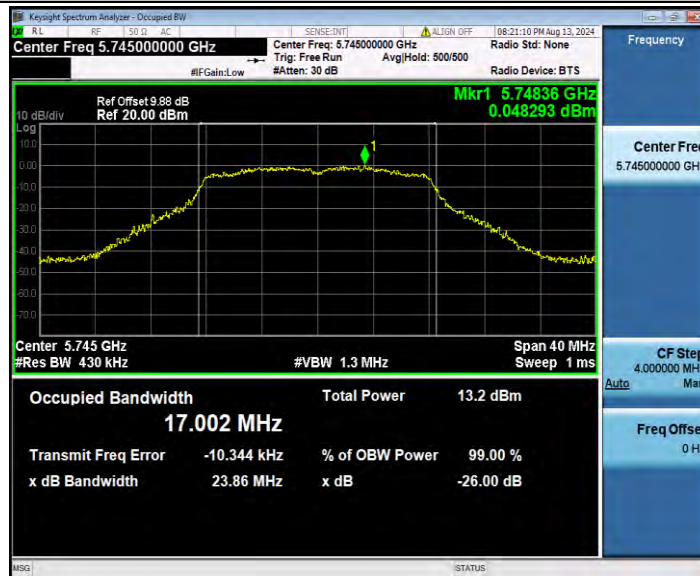
Appendix E.2: Occupied channel bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	17.002	5736.4887	5753.4907	---	---
		5785	16.970	5776.5157	5793.4857	---	---
		5825	16.984	5816.5210	5833.5050	---	---
11N20SISO	Ant1	5745	18.072	5735.9373	5754.0093	---	---
		5785	18.043	5775.9927	5794.0357	---	---
		5825	17.986	5816.0141	5834.0001	---	---
11N40SISO	Ant1	5755	36.247	5736.9402	5773.1872	---	---
		5795	36.227	5776.9329	5813.1599	---	---
11AC20SISO	Ant1	5745	18.011	5735.9906	5754.0016	---	---
		5785	18.016	5775.9909	5794.0069	---	---
		5825	17.975	5816.0186	5833.9936	---	---
11AC40SISO	Ant1	5755	36.311	5736.8662	5773.1772	---	---
		5795	36.236	5776.9259	5813.1619	---	---
11AC80SISO	Ant1	5775	75.229	5737.5038	5812.7328	---	---

Test Graphs

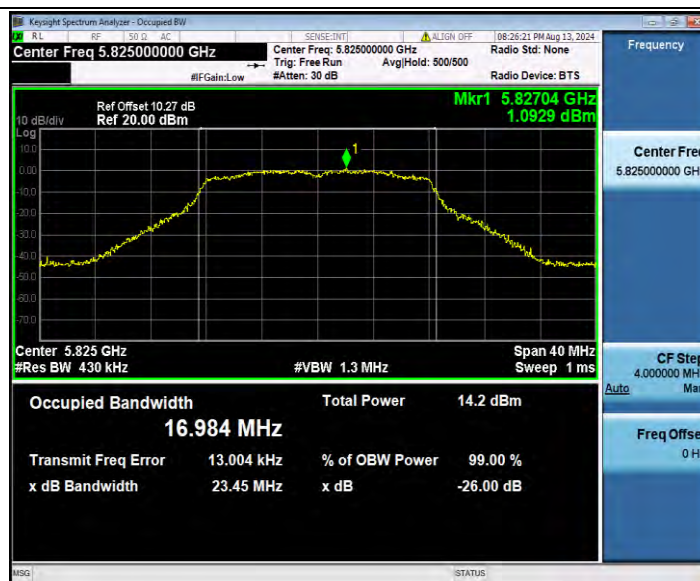
11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5745



11N20SISO_Ant1_5785



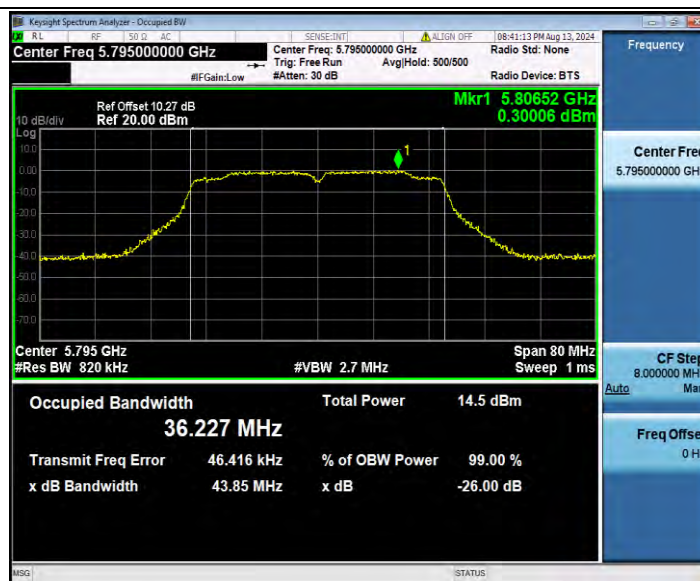
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11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



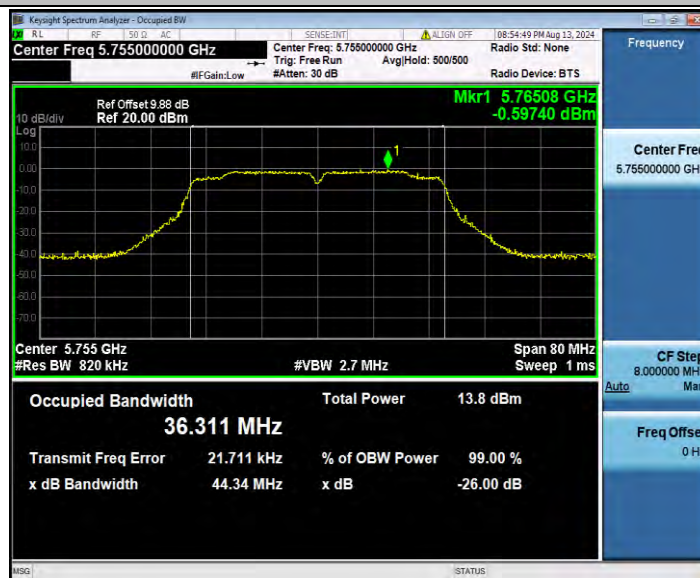
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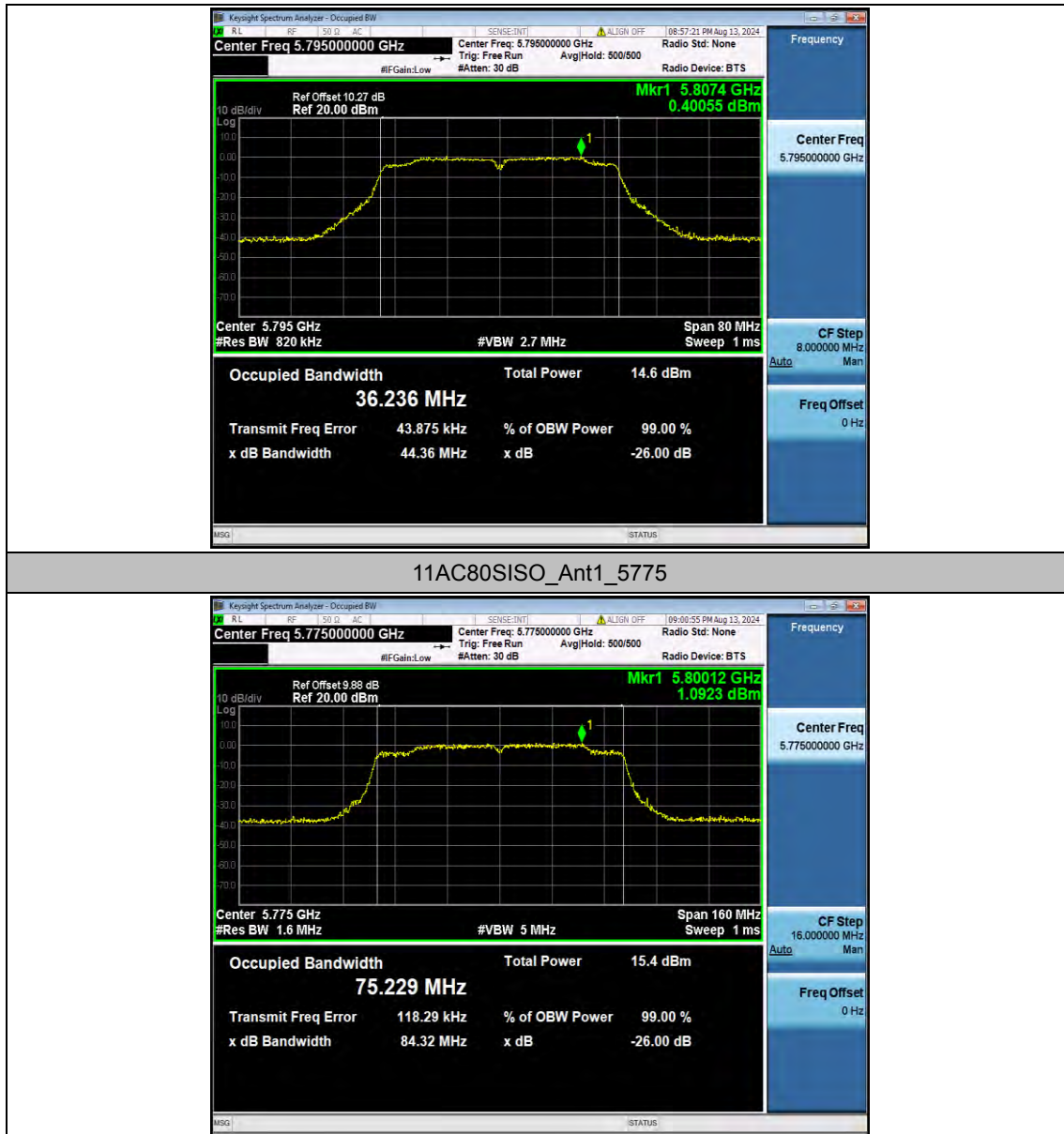
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11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



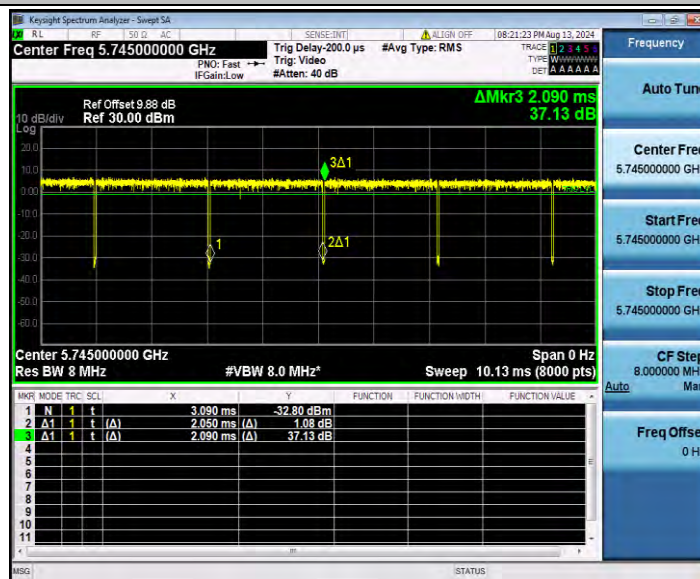
Appendix E.3: Duty Cycle

Test Result

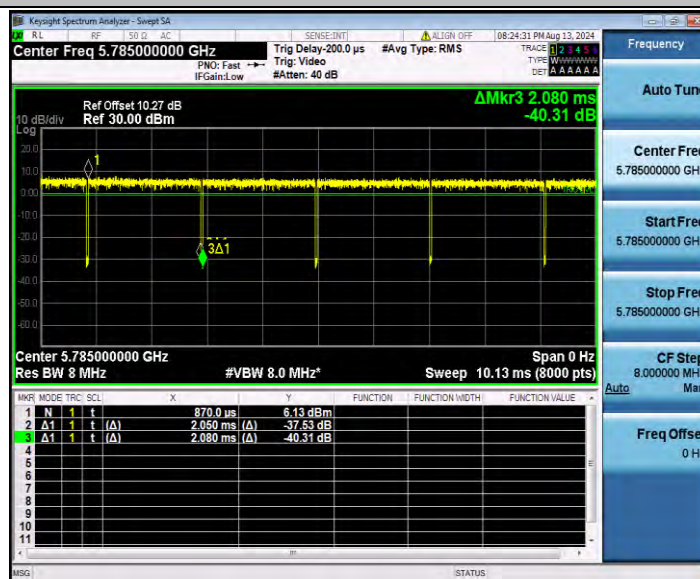
TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]	1/T Factor[KHz]
11A	Ant1	5745	2.05	2.09	98.09	0.08	0.49
		5785	2.05	2.08	98.56	0.06	0.49
		5825	2.04	2.08	98.08	0.08	0.49
11N20SISO	Ant1	5745	1.91	1.94	98.45	0.07	0.52
		5785	1.91	1.94	98.45	0.07	0.52
		5825	1.90	1.94	97.94	0.09	0.53
11N40SISO	Ant1	5755	0.94	0.98	95.92	0.18	1.06
		5795	0.94	0.98	95.92	0.18	1.06
11AC20SISO	Ant1	5745	1.91	1.96	97.45	0.11	0.52
		5785	1.91	1.96	97.45	0.11	0.52
		5825	1.92	1.96	97.96	0.09	0.52
11AC40SISO	Ant1	5755	0.95	0.99	95.96	0.18	1.05
		5795	0.94	0.98	95.92	0.18	1.06
11AC80SISO	Ant1	5775	0.46	0.50	92.00	0.36	2.17

Test Graphs

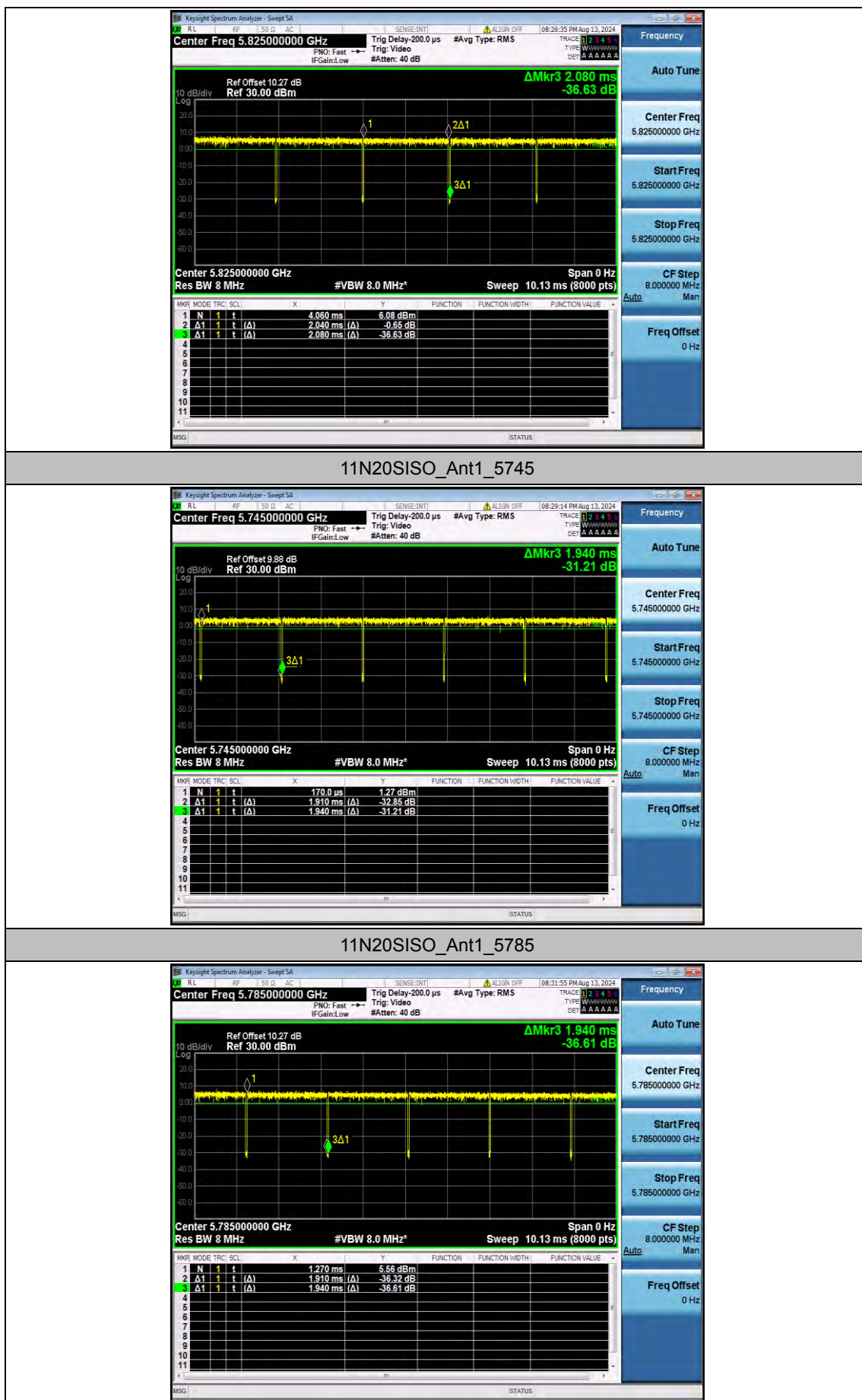
11A_Ant1_5745



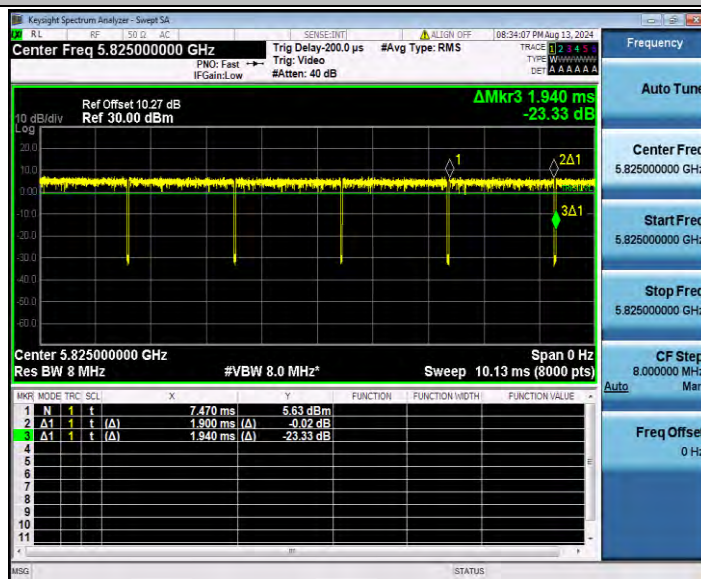
11A_Ant1_5785



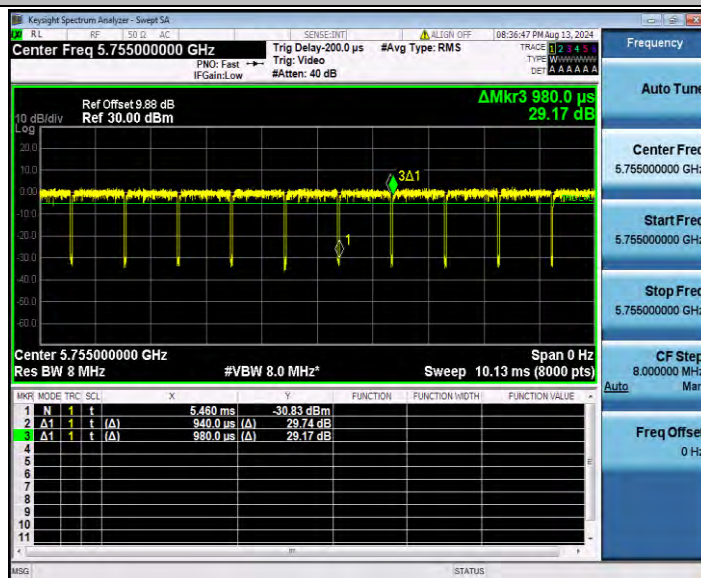
11A_Ant1_5825



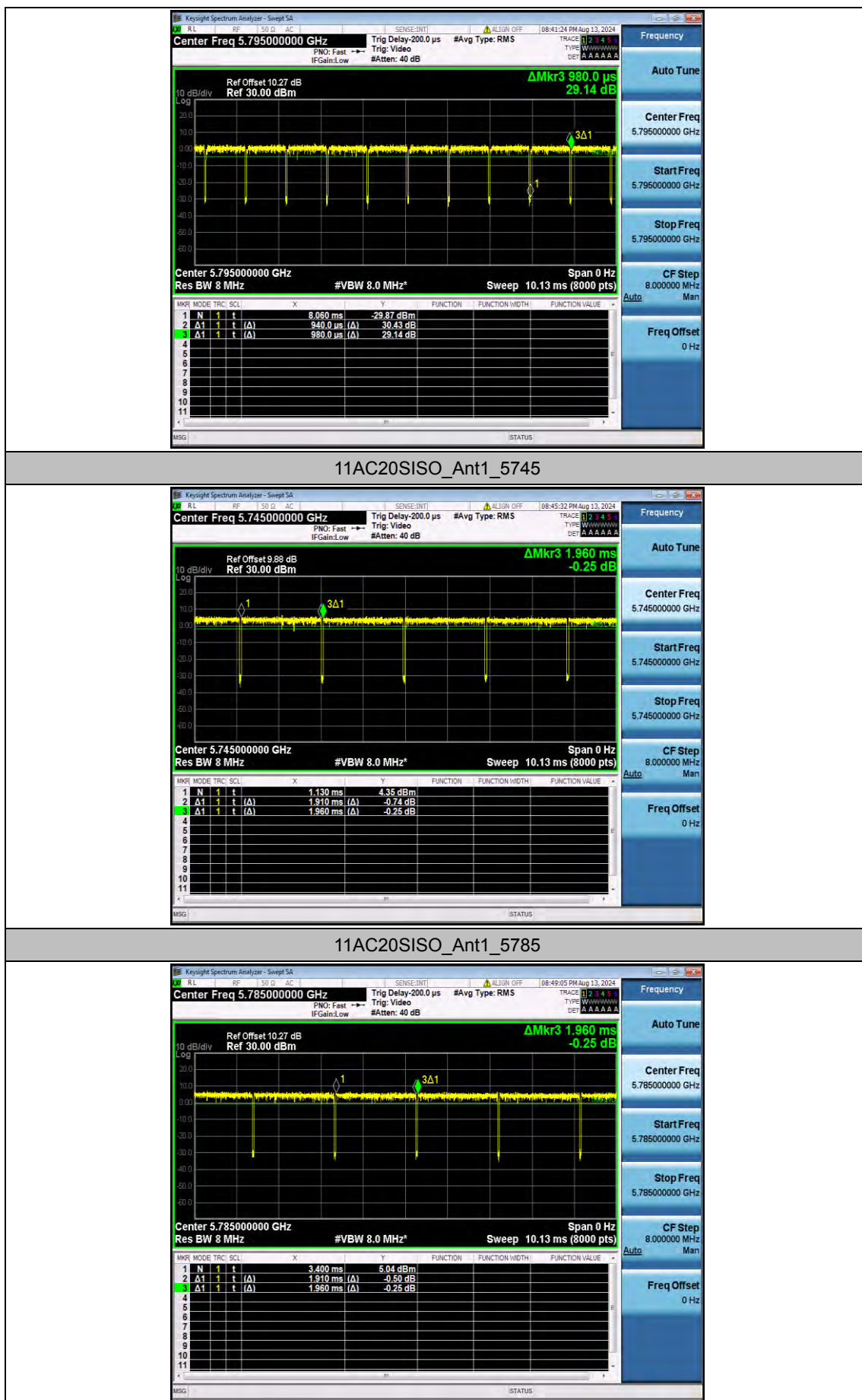
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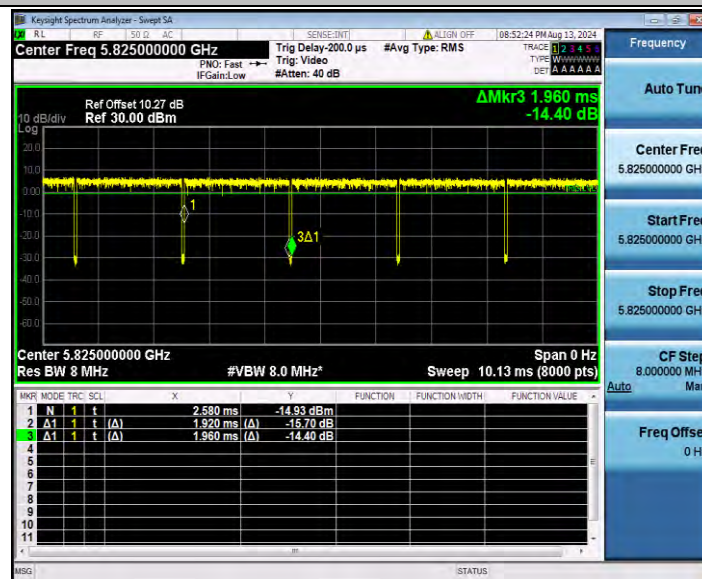
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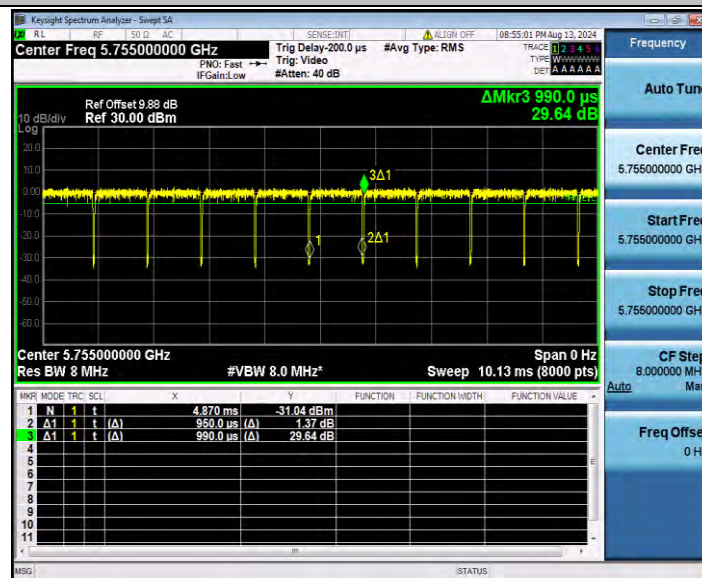
11N40SISO_Ant1_5795



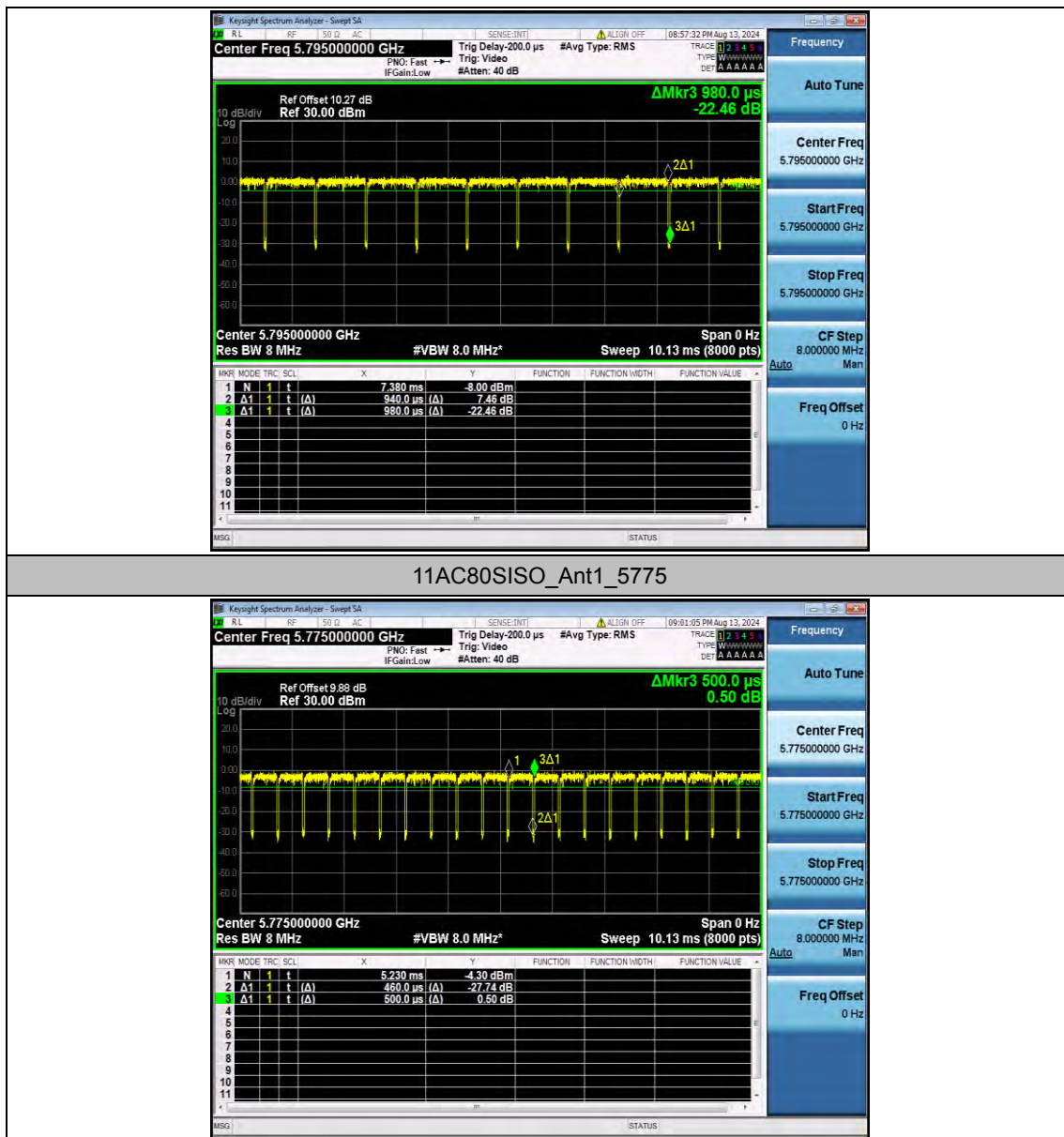
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



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	6.29	98.09	0.08	6.37	≤30.00	PASS
		5785	7.08	98.56	0.06	7.14	≤30.00	PASS
		5825	7.30	98.08	0.08	7.38	≤30.00	PASS
11N20SISO	Ant1	5745	6.18	98.45	0.07	6.25	≤30.00	PASS
		5785	6.97	98.45	0.07	7.04	≤30.00	PASS
		5825	7.16	97.94	0.09	7.25	≤30.00	PASS
11N40SISO	Ant1	5755	6.02	95.92	0.18	6.20	≤30.00	PASS
		5795	6.78	95.92	0.18	6.96	≤30.00	PASS
11AC20SISO	Ant1	5745	5.91	97.45	0.11	6.02	≤30.00	PASS
		5785	6.82	97.45	0.11	6.93	≤30.00	PASS
		5825	6.89	97.96	0.09	6.98	≤30.00	PASS
11AC40SISO	Ant1	5755	6.07	95.96	0.18	6.25	≤30.00	PASS
		5795	6.76	95.92	0.18	6.94	≤30.00	PASS
11AC80SISO	Ant1	5775	6.20	92.00	0.36	6.56	≤30.00	PASS

Appendix E.5: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-7.53	≤30.00	PASS
		5785	-6.84	≤30.00	PASS
		5825	-6.46	≤30.00	PASS
11N20SISO	Ant1	5745	-7.80	≤30.00	PASS
		5785	-7.09	≤30.00	PASS
		5825	-6.80	≤30.00	PASS
11N40SISO	Ant1	5755	-10.83	≤30.00	PASS
		5795	-9.99	≤30.00	PASS
11AC20SISO	Ant1	5745	-7.89	≤30.00	PASS
		5785	-7.10	≤30.00	PASS
		5825	-6.74	≤30.00	PASS
11AC40SISO	Ant1	5755	-10.70	≤30.00	PASS
		5795	-10.11	≤30.00	PASS
11AC80SISO	Ant1	5775	-13.17	≤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

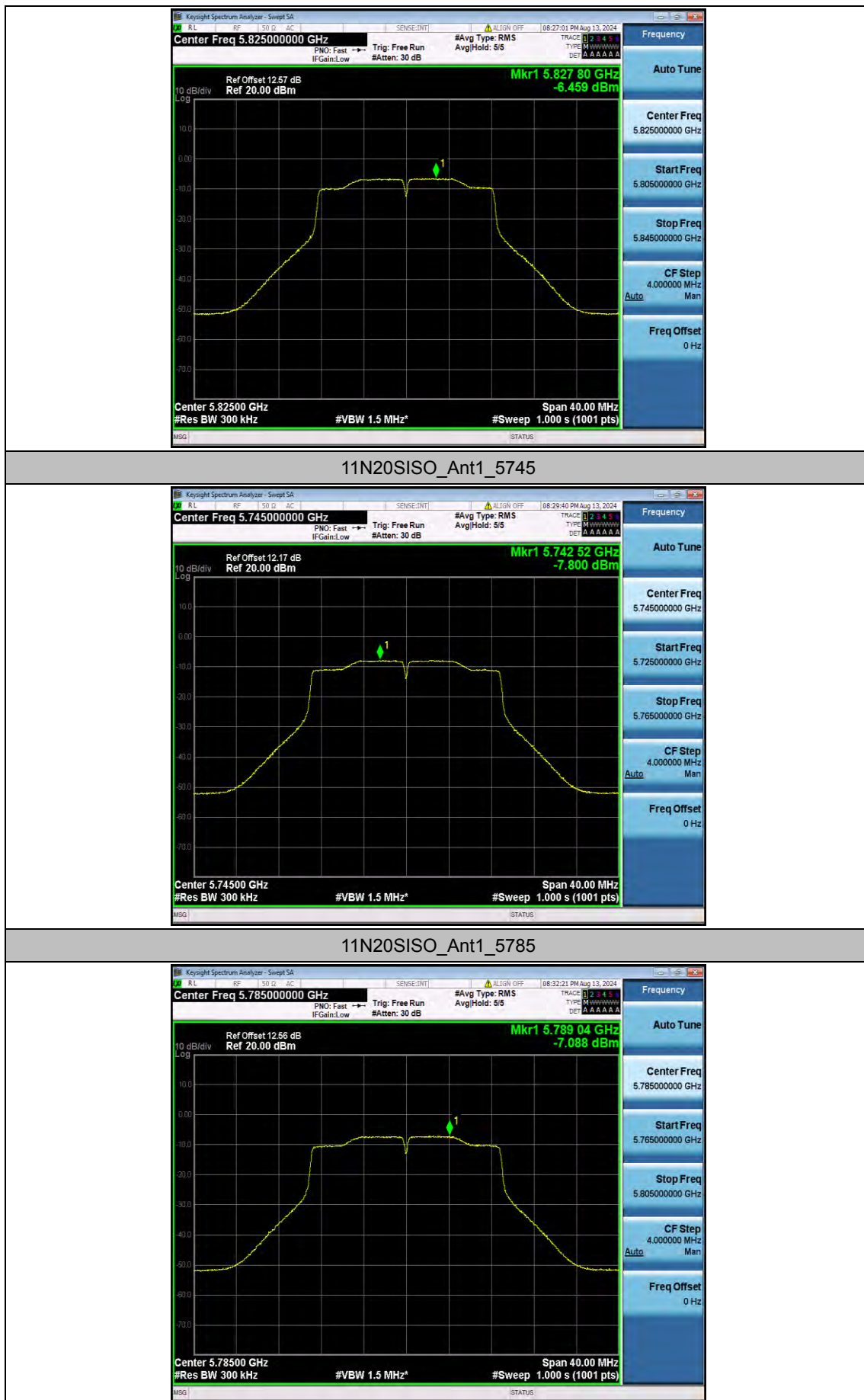
11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



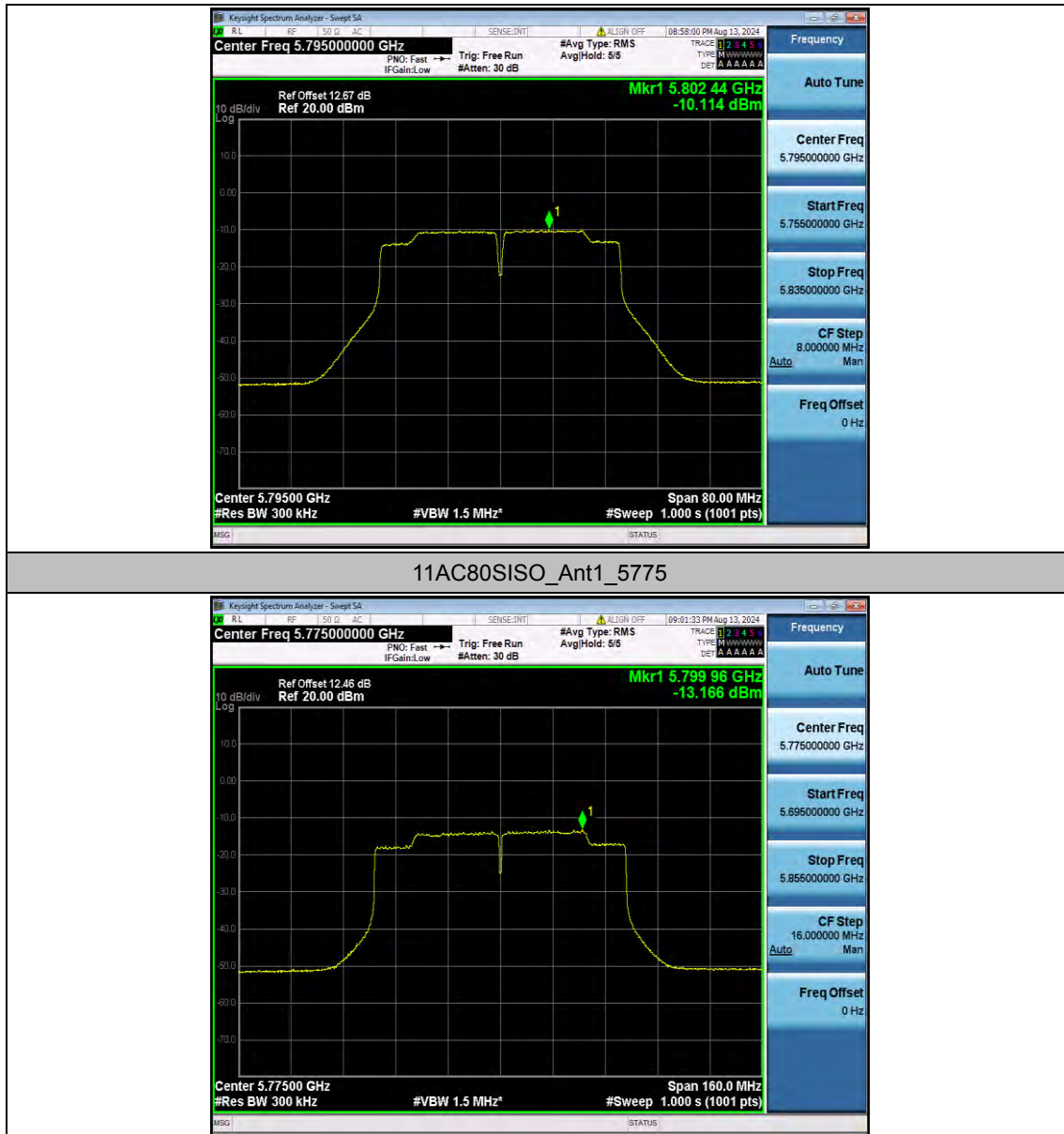
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



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	-39.93	≤-26.62	PASS
				5700~5720	-39.86	≤10.15	PASS
				5720~5725	-40.99	≤15.82	PASS
				5760~5650	-39.74	≤-27	PASS
		High	5825	5850~5855	-38.14	≤17.26	PASS
				5855~5875	-38.69	≤10.29	PASS
				5875~5925	-38.44	≤-26.81	PASS
				5925~5935	-38.13	≤-27	PASS
11N20SIS O	Ant1	Low	5745	5650~5700	-39.47	≤-26.19	PASS
				5700~5720	-39.64	≤10.93	PASS
				5720~5725	-40.37	≤16.08	PASS
				5760~5650	-40.05	≤-27	PASS
		High	5825	5850~5855	-38.25	≤15.73	PASS
				5855~5875	-37.94	≤10.63	PASS
				5875~5925	-38.12	≤-25.61	PASS
				5925~5935	-38.65	≤-27	PASS
11N40SIS O	Ant1	Low	5755	5650~5700	-40.43	≤-26.70	PASS
				5700~5720	-38.28	≤10.93	PASS
				5720~5725	-40.19	≤15.74	PASS
				5780~5650	-39.19	≤-27	PASS
		High	5795	5850~5855	-40.71	≤15.66	PASS
				5855~5875	-39.07	≤10.25	PASS
				5875~5925	-39.26	≤-26.10	PASS
				5925~5935	-37.48	≤-27	PASS
11AC20SI SO	Ant1	Low	5745	5650~5700	-40.13	≤-26.87	PASS
				5700~5720	-38.2	≤11.70	PASS
				5720~5725	-40.84	≤15.82	PASS
				5760~5650	-40.05	≤-27	PASS
		High	5825	5850~5855	-39.64	≤15.73	PASS
				5855~5875	-38.48	≤10.55	PASS
				5875~5925	-39.09	≤-26.51	PASS
				5925~5935	-37.63	≤-27	PASS
11AC40SI SO	Ant1	Low	5755	5650~5700	-39.15	≤-26.00	PASS
				5700~5720	-39.12	≤10.44	PASS
				5720~5725	-38.98	≤15.74	PASS
				5780~5650	-39.46	≤-27	PASS

		High	5795	5850~5855	-39.8	≤ 15.66	PASS
				5855~5875	-38.68	≤ 10.85	PASS
				5875~5925	-39.03	≤ -26.10	PASS
				5925~5935	-38.28	≤ -27	PASS
11AC80SI SO	Ant1	Low	5775	5650~5700	-39.52	≤ -26.91	PASS
				5700~5720	-37.61	≤ 10.22	PASS
				5720~5725	-38.83	≤ 15.65	PASS
				5800~5650	-39.84	≤ -27	PASS
		High	5775	5850~5855	-38.55	≤ 16.26	PASS
				5855~5875	-38.43	≤ 10.50	PASS
				5875~5925	-40.08	≤ -26.87	PASS
				5925~5935	-37.9	≤ -27	PASS

Test Graphs B4

11A_Ant1_Low_5745



11A_Ant1_High_5825



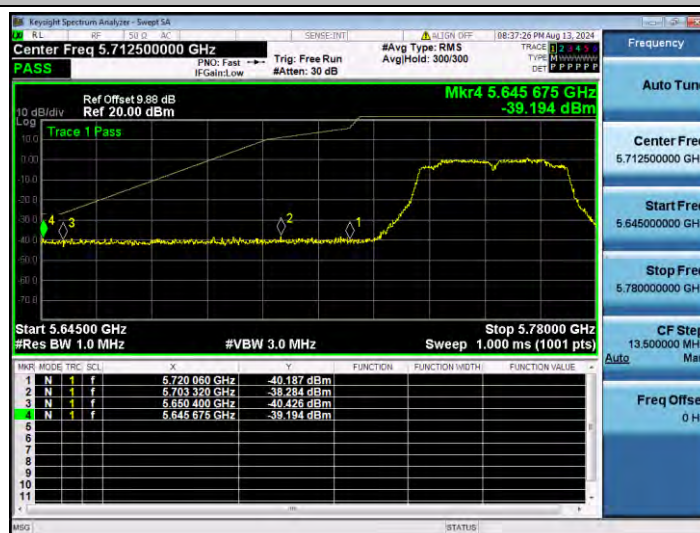
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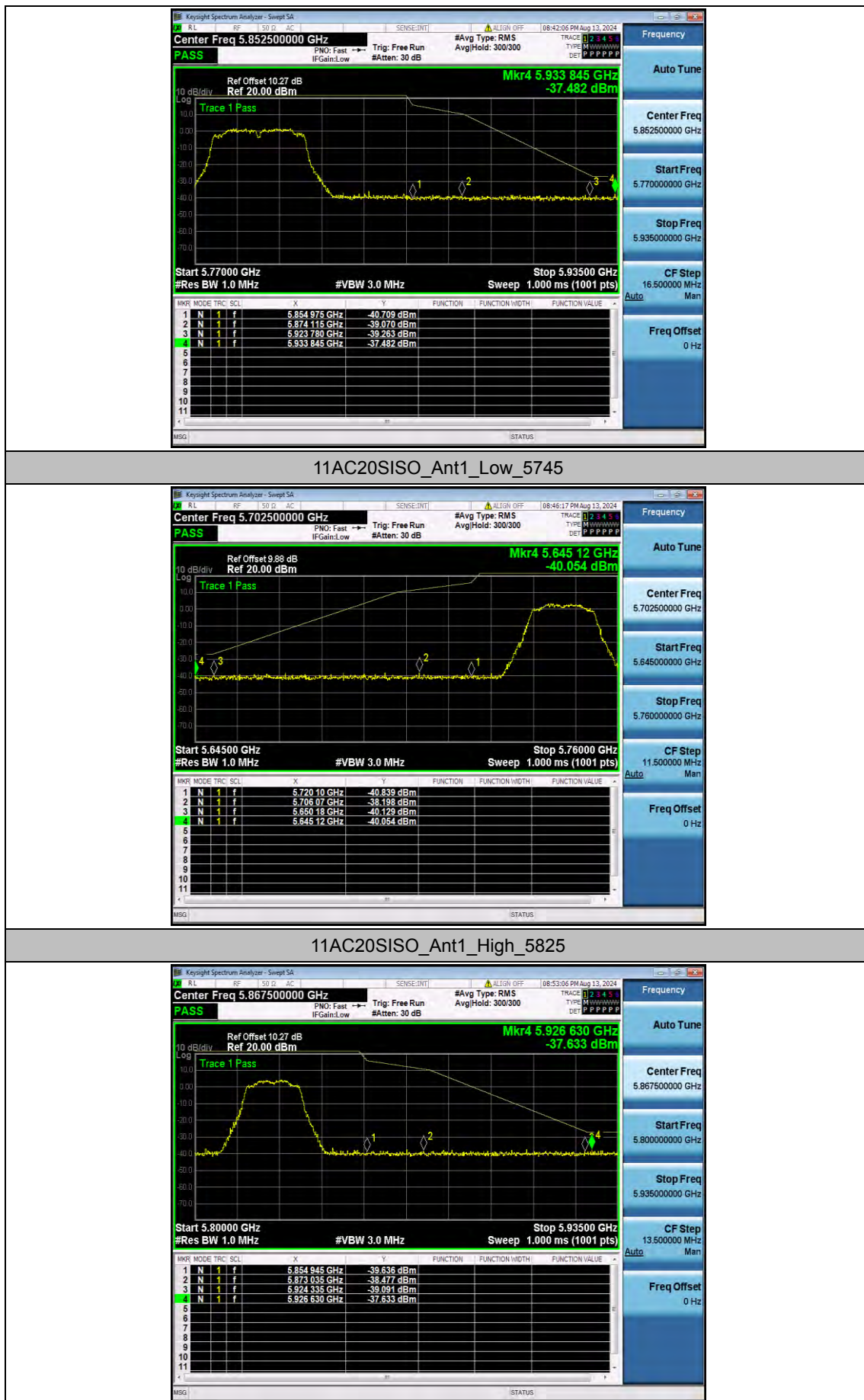
11N20SISO_Ant1_High_5825



11N40SISO_Ant1_Low_5755



11N40SISO_Ant1_High_5795



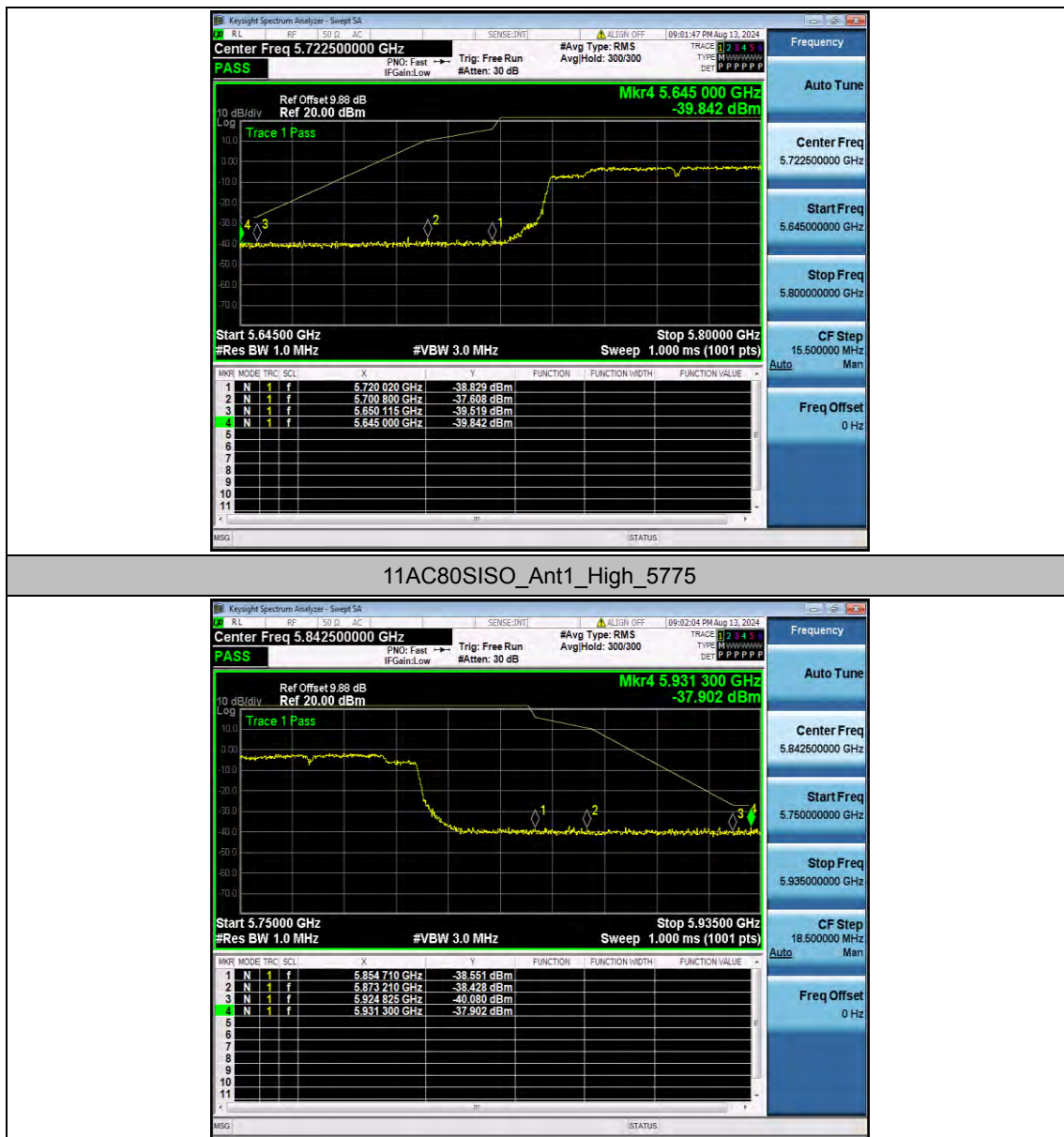
11AC40SISO_Ant1_Low_5755



11AC40SISO_Ant1_High_5795



11AC80SISO_Ant1_Low_5775



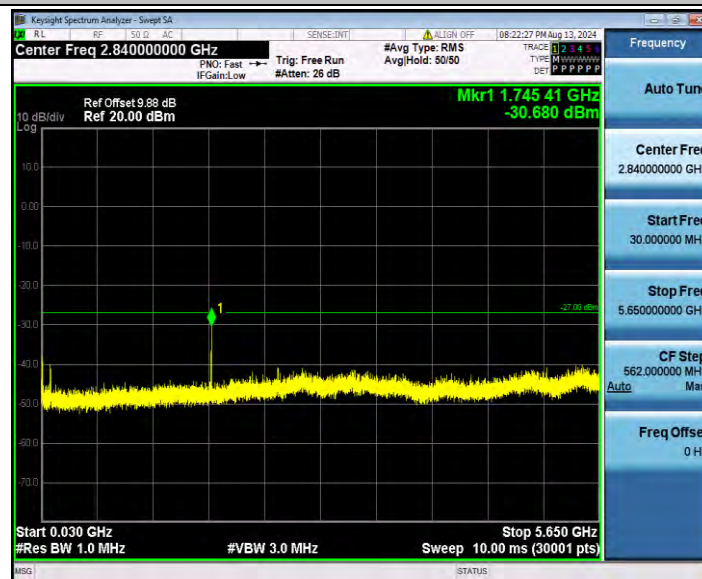
Appendix E.7: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	30~5650	1745.41	-30.68	≤-27	PASS
			5925~27000	26954.34	-32.68	≤-27	PASS
		5785	30~5650	1743.73	-35.18	≤-27	PASS
			5925~27000	26614.33	-29.91	≤-27	PASS
		5825	30~5650	35.81	-37.2	≤-27	PASS
			5925~27000	24164.01	-31.76	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	125.17	-37.85	≤-27	PASS
			5925~27000	26490.69	-32.39	≤-27	PASS
		5785	30~5650	35.25	-37.92	≤-27	PASS
			5925~27000	24227.23	-30.75	≤-27	PASS
		5825	30~5650	2411.76	-39.37	≤-27	PASS
			5925~27000	26533.54	-31.16	≤-27	PASS
11N40SISO	Ant1	5755	30~5650	34.12	-38.41	≤-27	PASS
			5925~27000	25162.96	-32.37	≤-27	PASS
		5795	30~5650	1744.66	-34.98	≤-27	PASS
			5925~27000	24999.28	-31.91	≤-27	PASS
11AC20SISO	Ant1	5745	30~5650	42.18	-39.3	≤-27	PASS
			5925~27000	23552.83	-31.84	≤-27	PASS
		5785	30~5650	42.93	-35.46	≤-27	PASS
			5925~27000	24270.09	-31.47	≤-27	PASS
		5825	30~5650	42.18	-36.52	≤-27	PASS
			5925~27000	24875.64	-31.88	≤-27	PASS
11AC40SISO	Ant1	5755	30~5650	41.61	-36.83	≤-27	PASS
			5925~27000	25627.32	-31.93	≤-27	PASS
		5795	30~5650	42.36	-36.7	≤-27	PASS
			5925~27000	26505.44	-31.73	≤-27	PASS
11AC80SISO	Ant1	5775	30~5650	42.36	-37.39	≤-27	PASS
			5925~27000	26793.47	-32.3	≤-27	PASS

Test Graphs

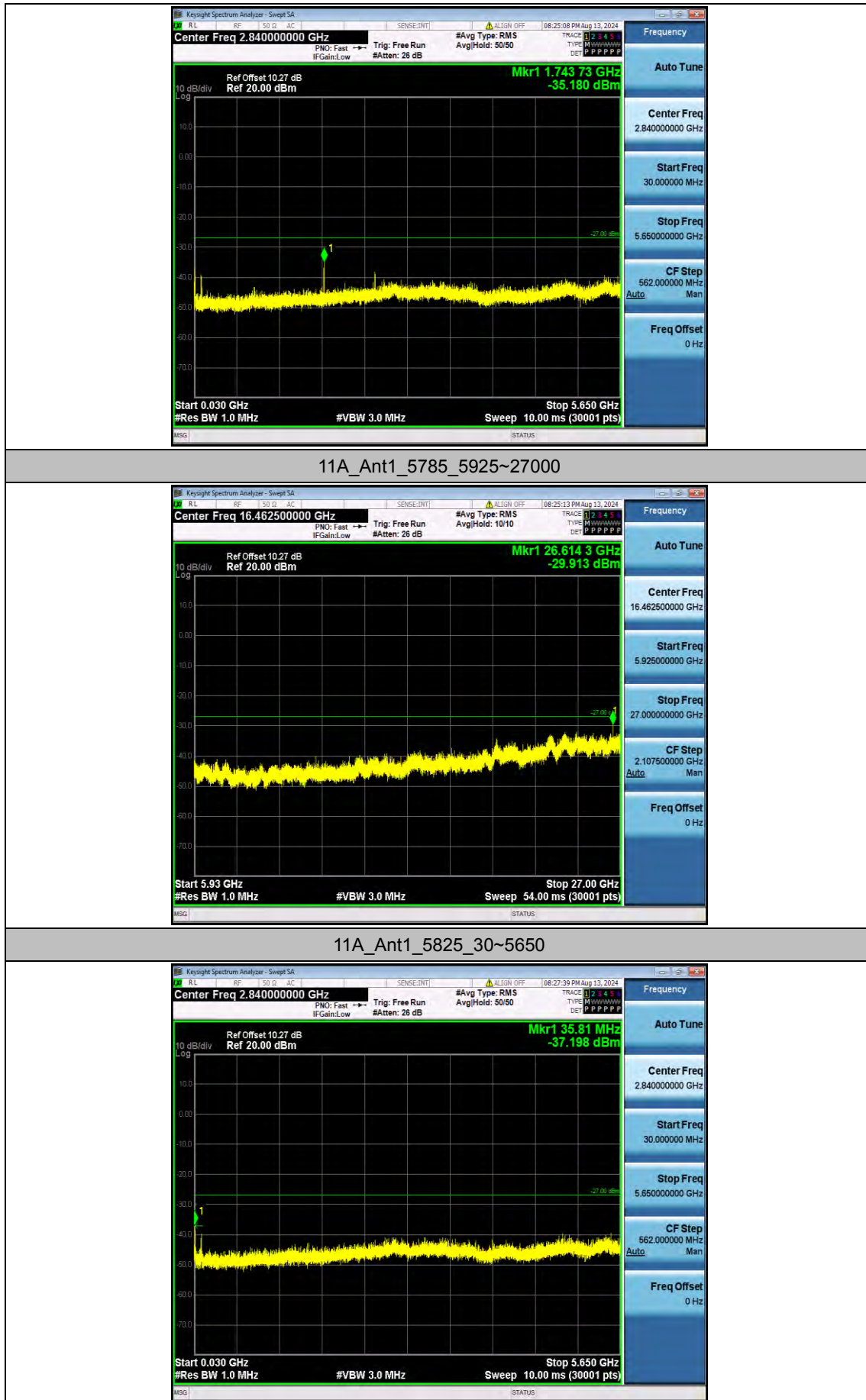
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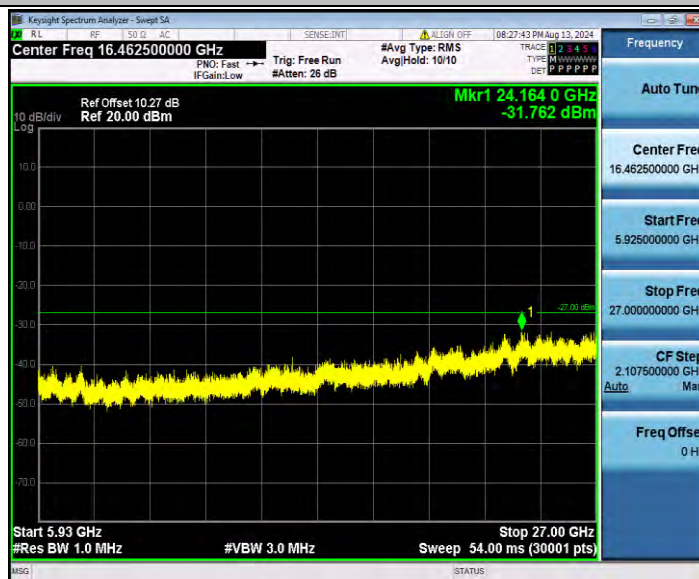
11A_Ant1_5745_5925~27000



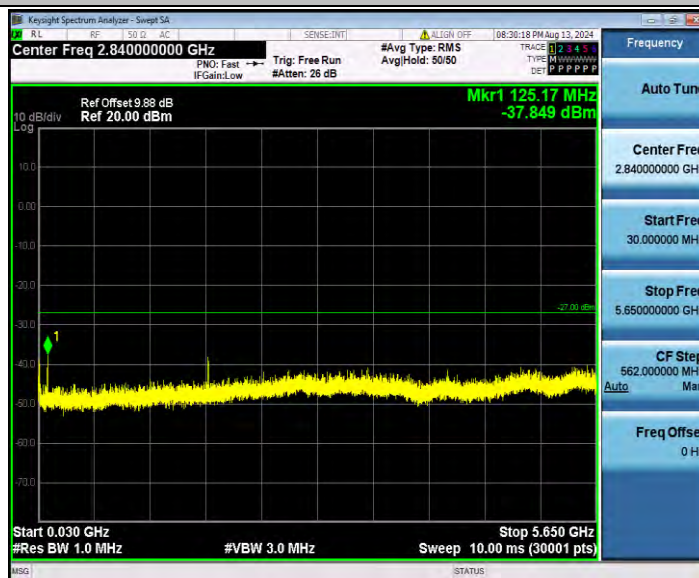
11A_Ant1_5785_30~5650



11A_Ant1_5825_5925~27000



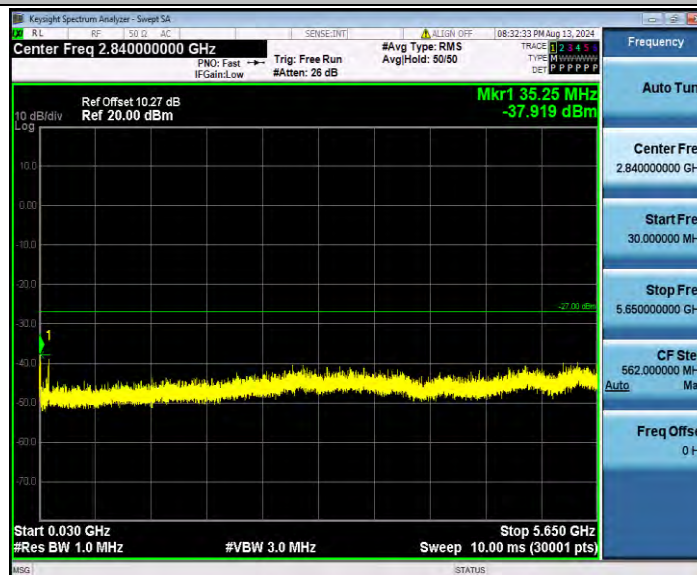
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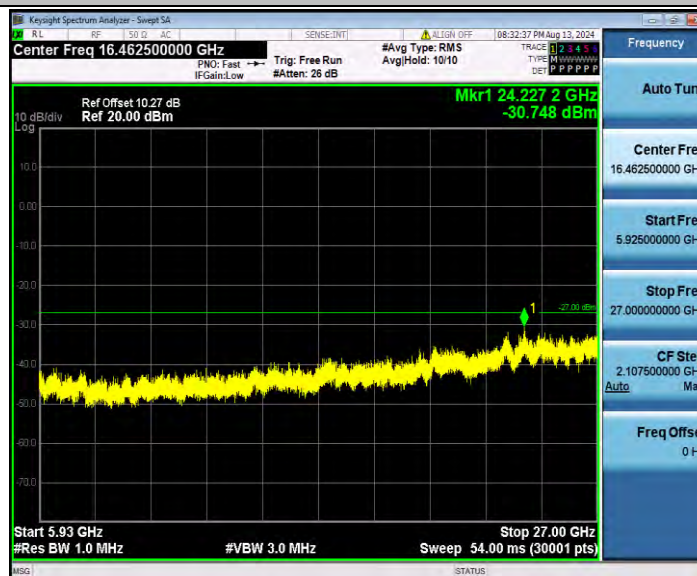
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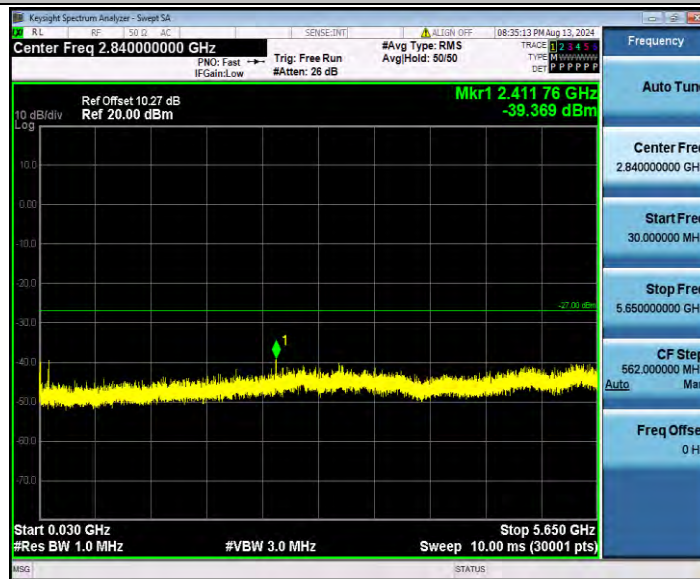
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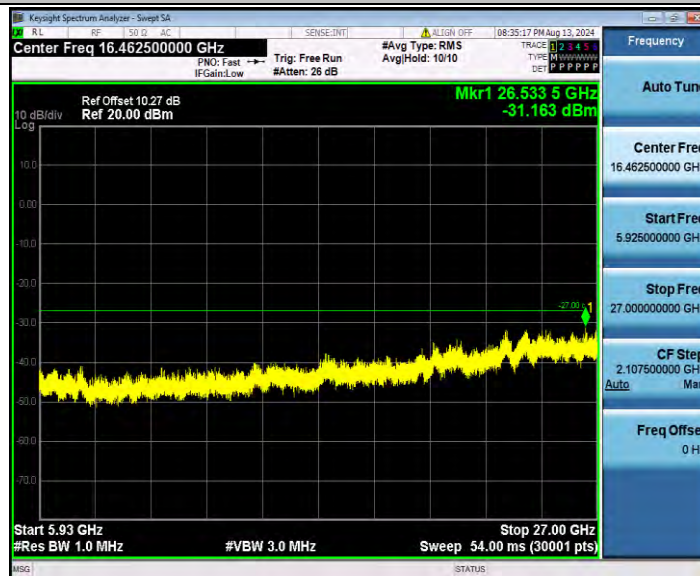
11N20SISO_Ant1_5785_5925~27000



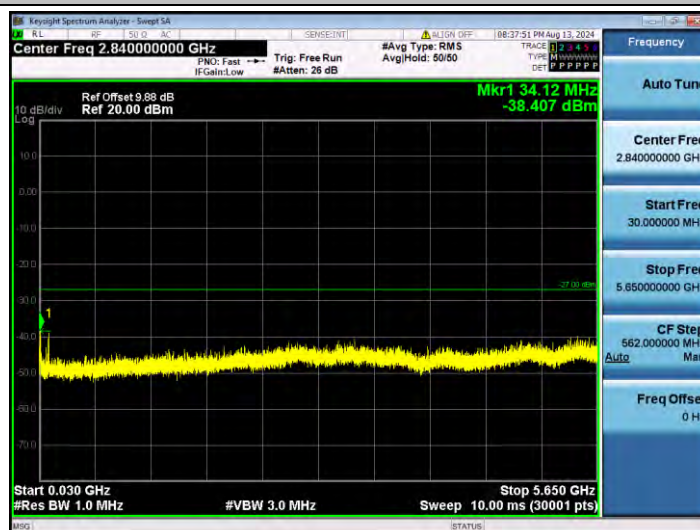
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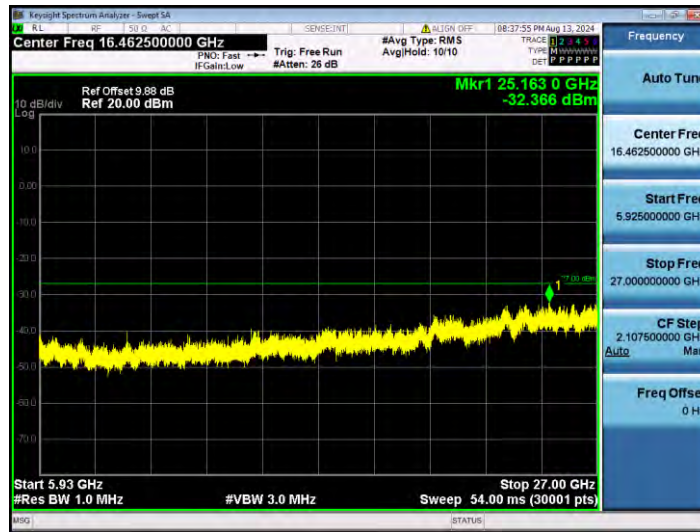
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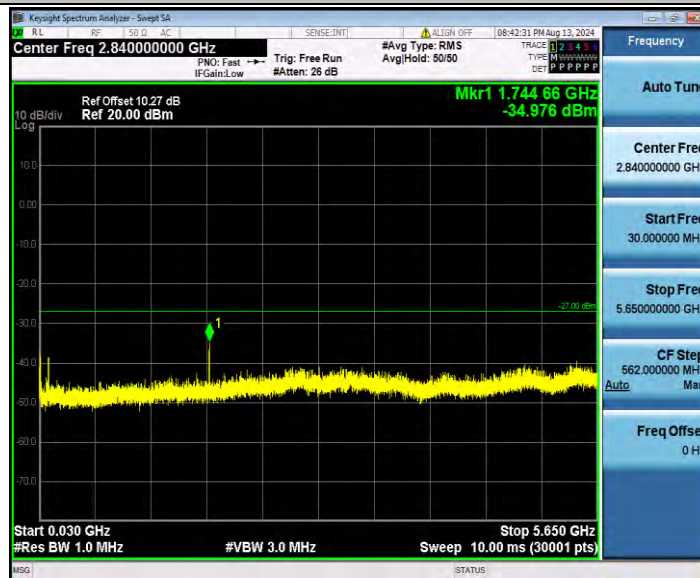
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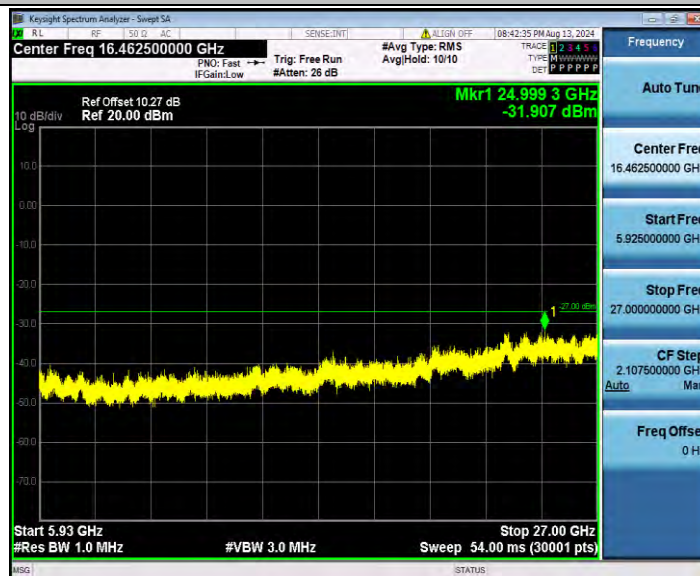
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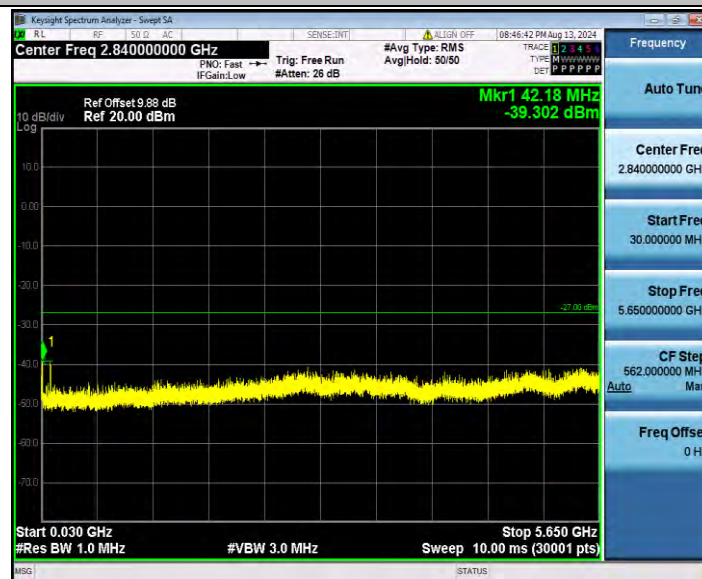
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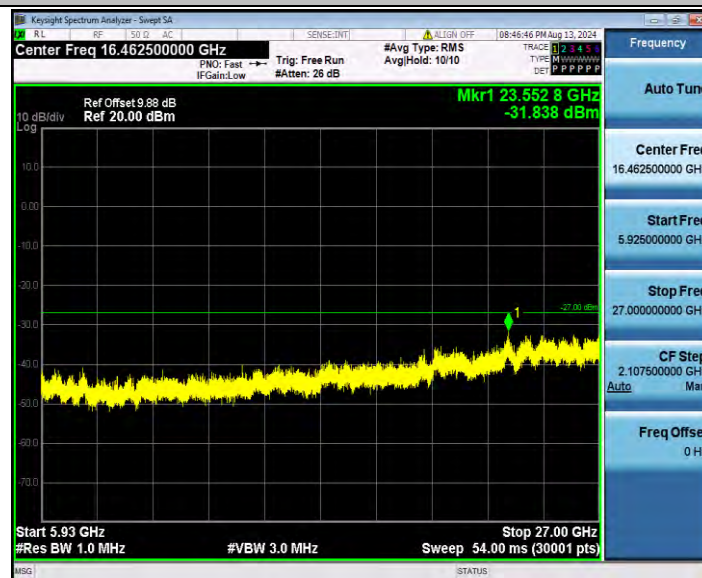
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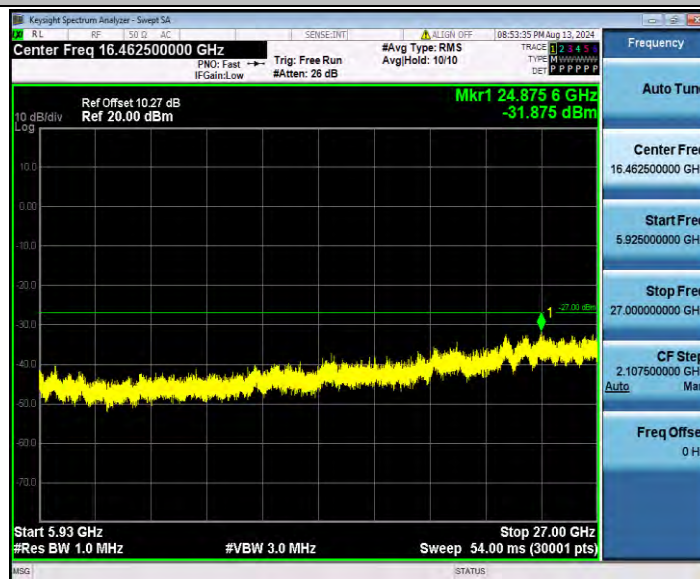
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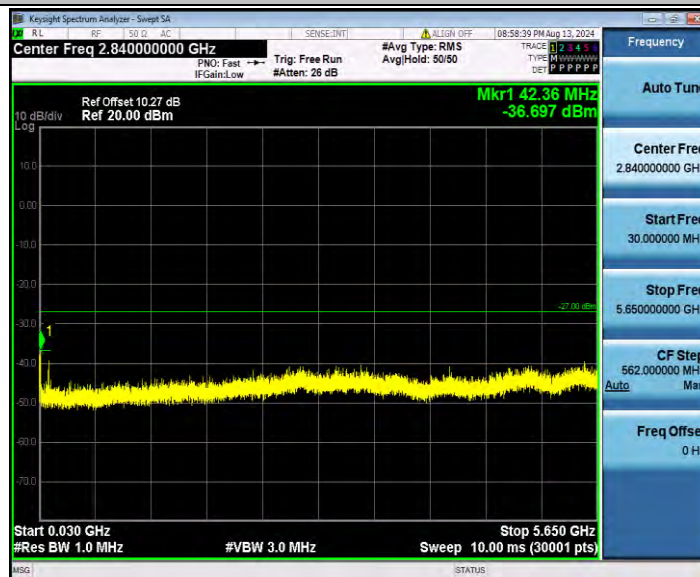
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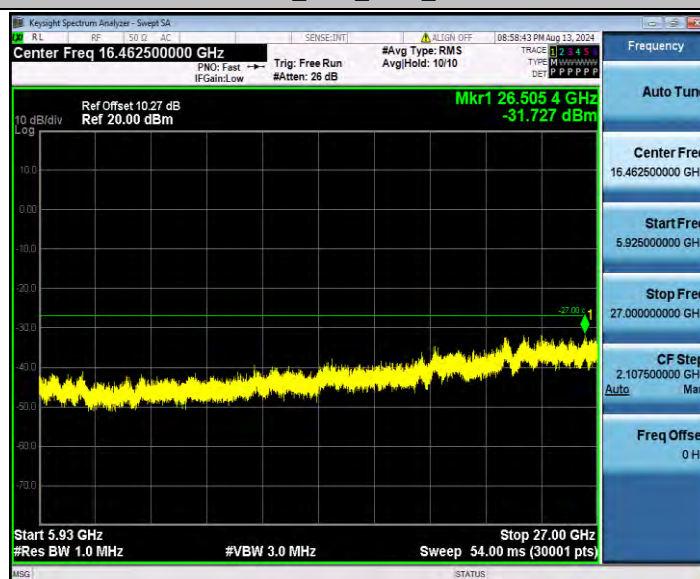
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11AC80SISO_Ant1_5775_30~5650



11AC80SISO_Ant1_5775_5925~27000

