

Case No. : <u>GTS20230525016-1-11</u>
Ambient Condition: <u>23</u> °C, <u>49</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	Ant1	5745	18.639	5735.465	5754.104	---	---
		5785	18.197	5775.733	5793.930	---	---
		5825	17.600	5816.157	5833.757	---	---
11N20SISO	Ant1	5745	19.603	5735.033	5754.636	---	---
		5785	18.927	5775.447	5794.374	---	---
		5825	18.626	5815.613	5834.239	---	---
11N40SISO	Ant1	5755	37.233	5736.380	5773.613	---	---
		5795	36.873	5776.521	5813.394	---	---
11AC20SISO	Ant1	5745	19.491	5735.143	5754.634	---	---
		5785	19.001	5775.414	5794.415	---	---
		5825	18.575	5815.694	5834.269	---	---
11AC40SISO	Ant1	5755	37.255	5736.284	5773.539	---	---
		5795	36.848	5776.466	5813.314	---	---
11AC80SISO	Ant1	5775	88.479	5728.183	5816.662	---	---

Test Graphs



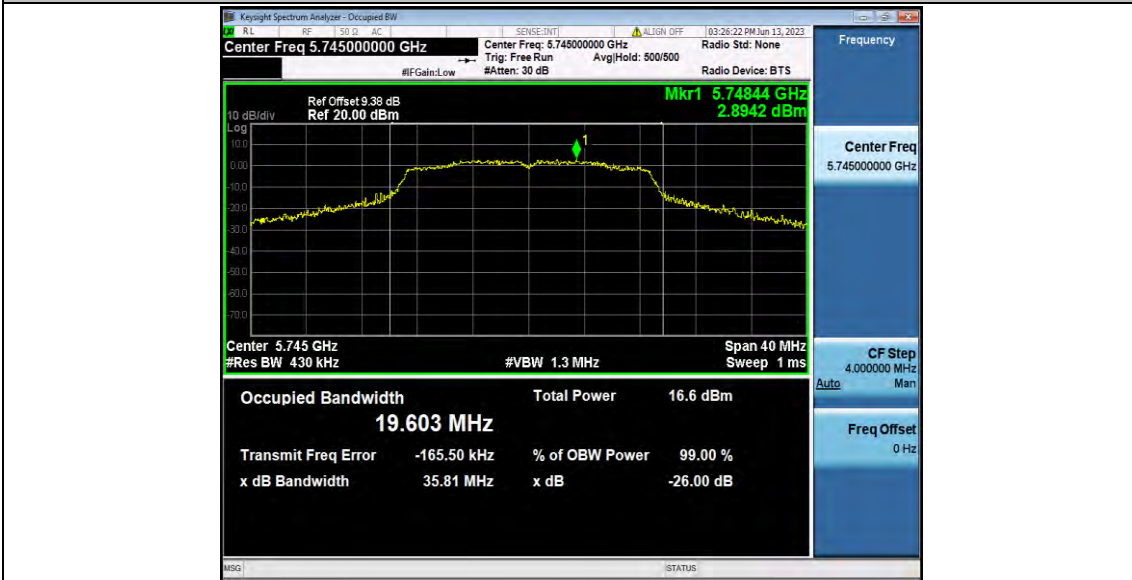
11A_Ant1_5745



11A_Ant1_5785



11A_Ant1_5825



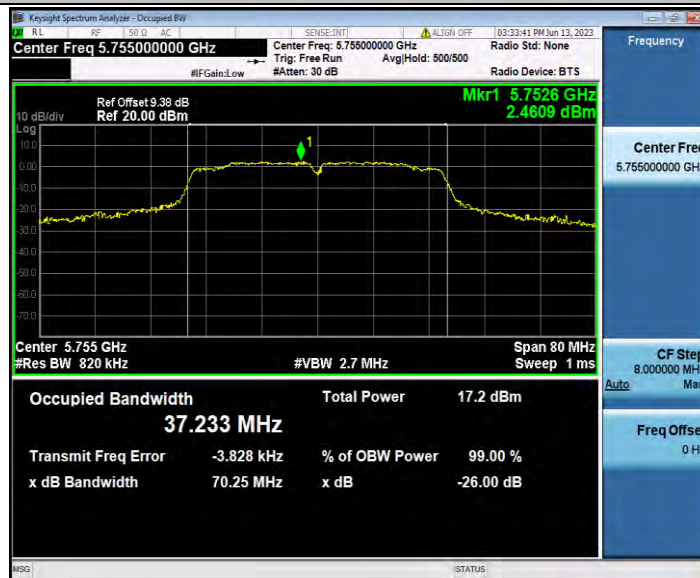
11N20SISO_Ant1_5745



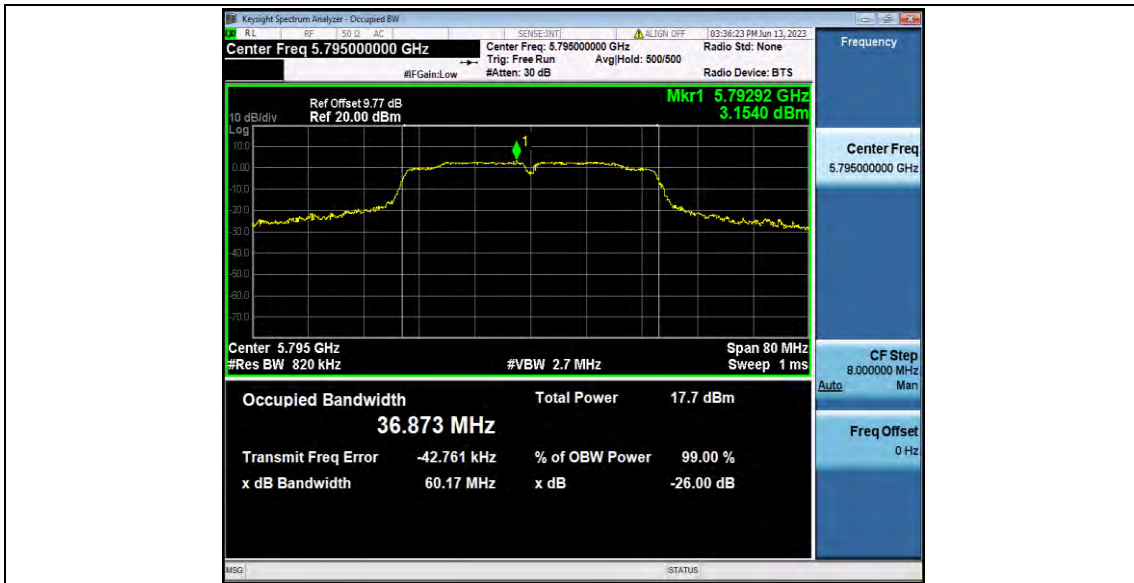
11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



11N40SISO_Ant1_5795



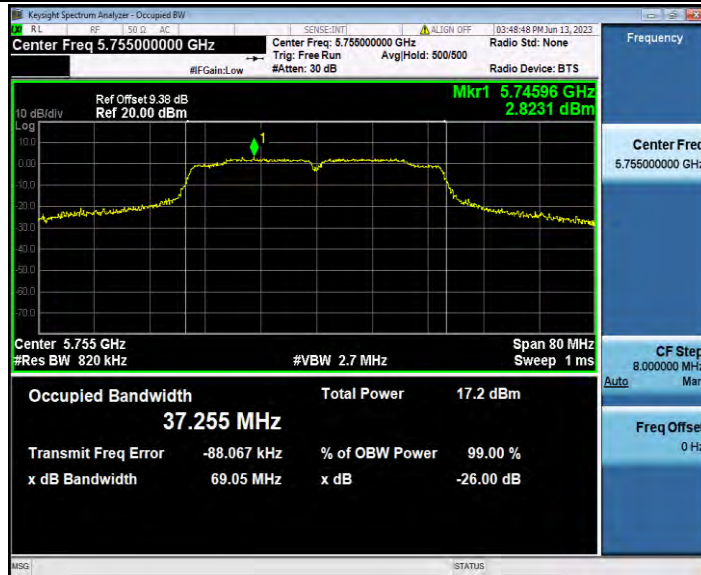
11AC20SISO_Ant1_5745



11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775

Appendix E.2: Min emission bandwidth

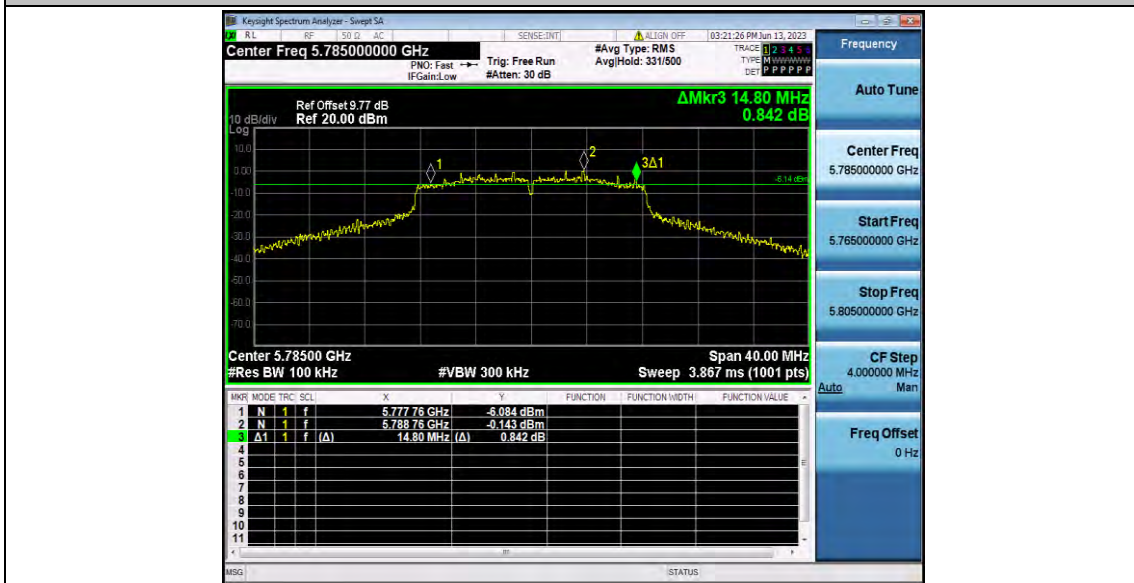
Test Result B4

Test Mode	Antenna	Frequency[MHz]	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	15.120	5737.400	5752.520	0.5	PASS
		5785	14.800	5777.760	5792.560	0.5	PASS
		5825	13.880	5818.640	5832.520	0.5	PASS
11N20SISO	Ant1	5745	15.240	5737.480	5752.720	0.5	PASS
		5785	15.000	5778.360	5793.360	0.5	PASS
		5825	17.120	5816.240	5833.360	0.5	PASS
11N40SISO	Ant1	5755	35.120	5737.400	5772.520	0.5	PASS
		5795	35.120	5777.400	5812.520	0.5	PASS
11AC20SISO	Ant1	5745	15.120	5737.440	5752.560	0.5	PASS
		5785	15.080	5777.480	5792.560	0.5	PASS
		5825	15.160	5817.400	5832.560	0.5	PASS
11AC40SISO	Ant1	5755	35.040	5737.480	5772.520	0.5	PASS
		5795	35.120	5777.400	5812.520	0.5	PASS
11AC80SISO	Ant1	5775	74.880	5737.560	5812.440	0.5	PASS

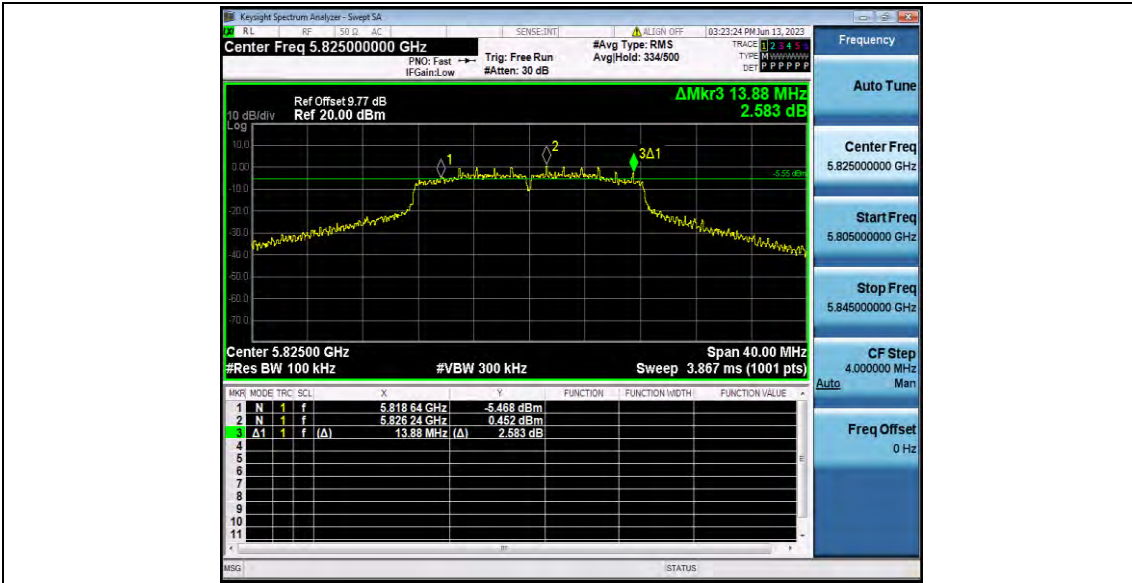
Test Graphs B4



11A_Ant1_5745



11A_Ant1_5785



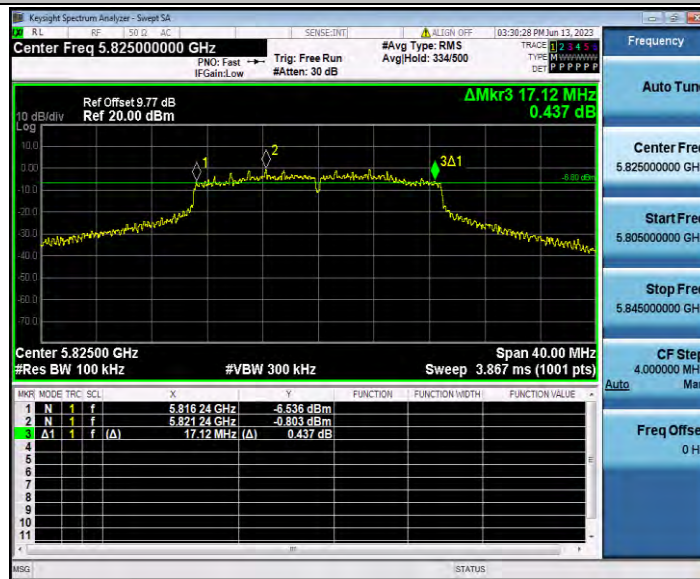
11A_Ant1_5825



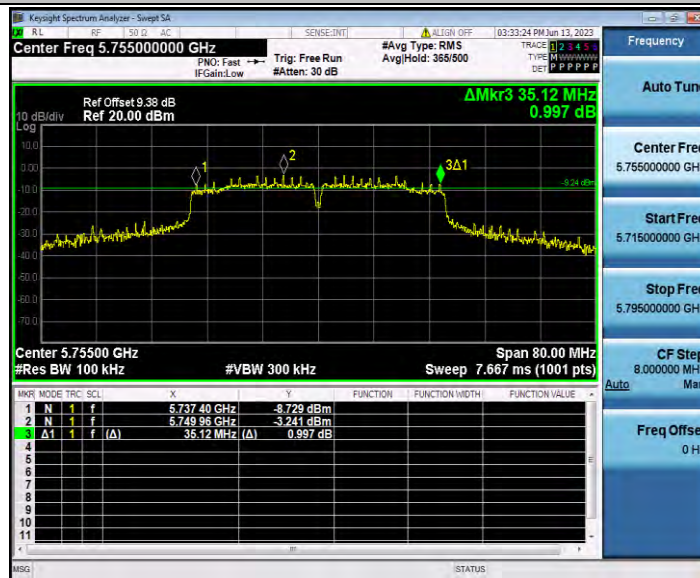
11N20SISO_Ant1_5745



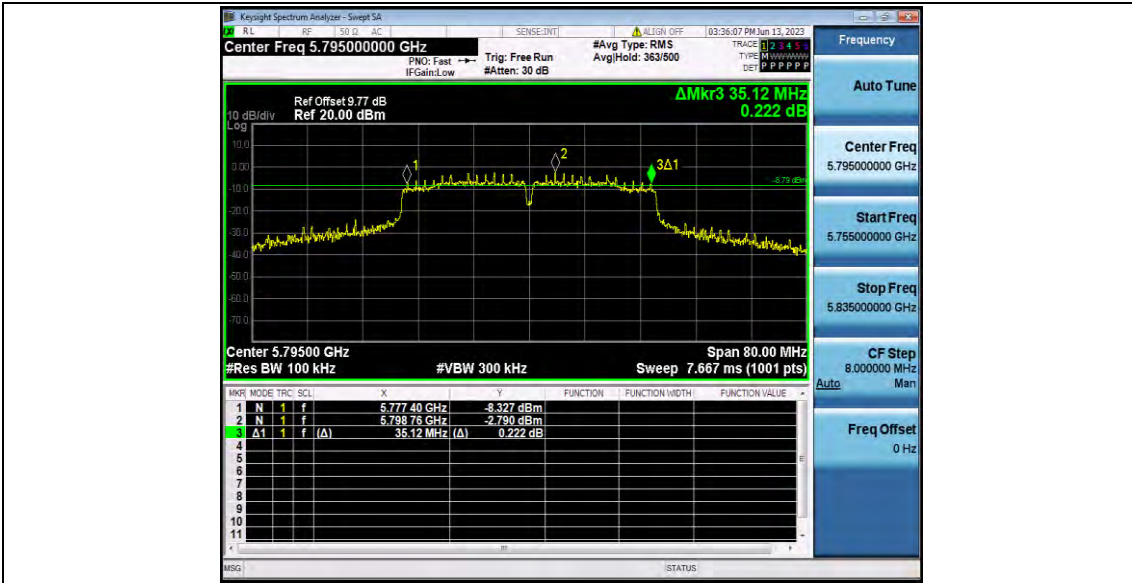
11N20SISO_Ant1_5785



11N20SISO_Ant1_5825



11N40SISO_Ant1_5755



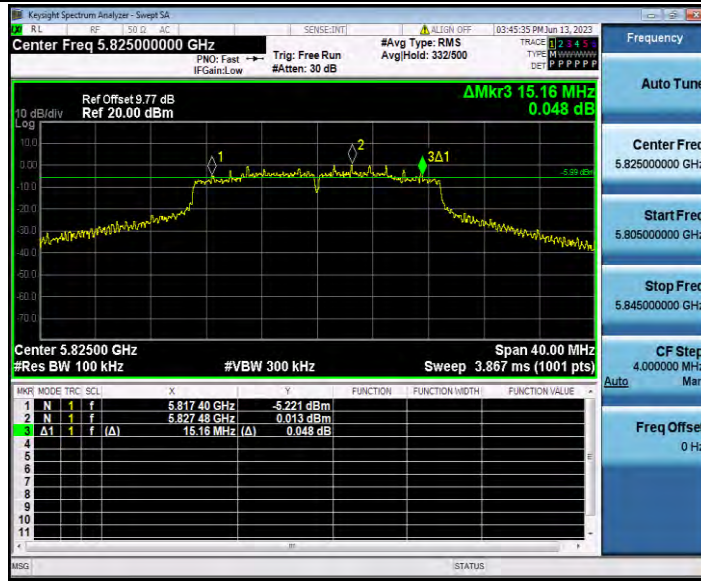
11N40SISO_Ant1_5795



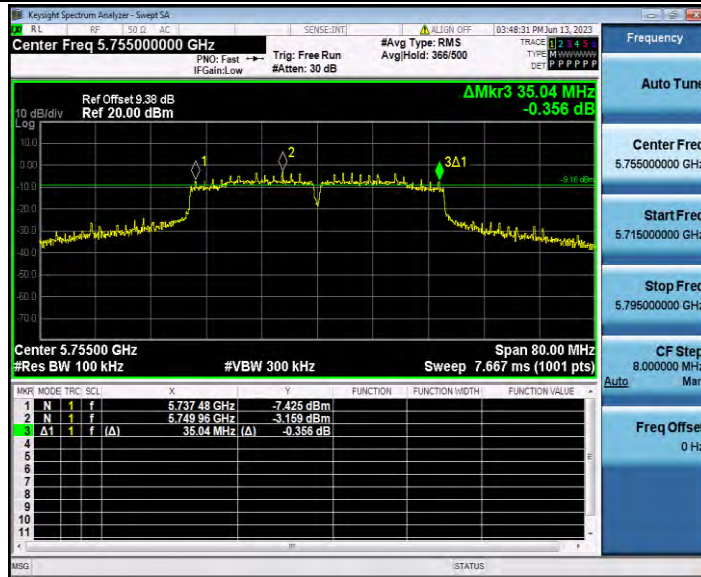
11A20SISO_Ant1_5745



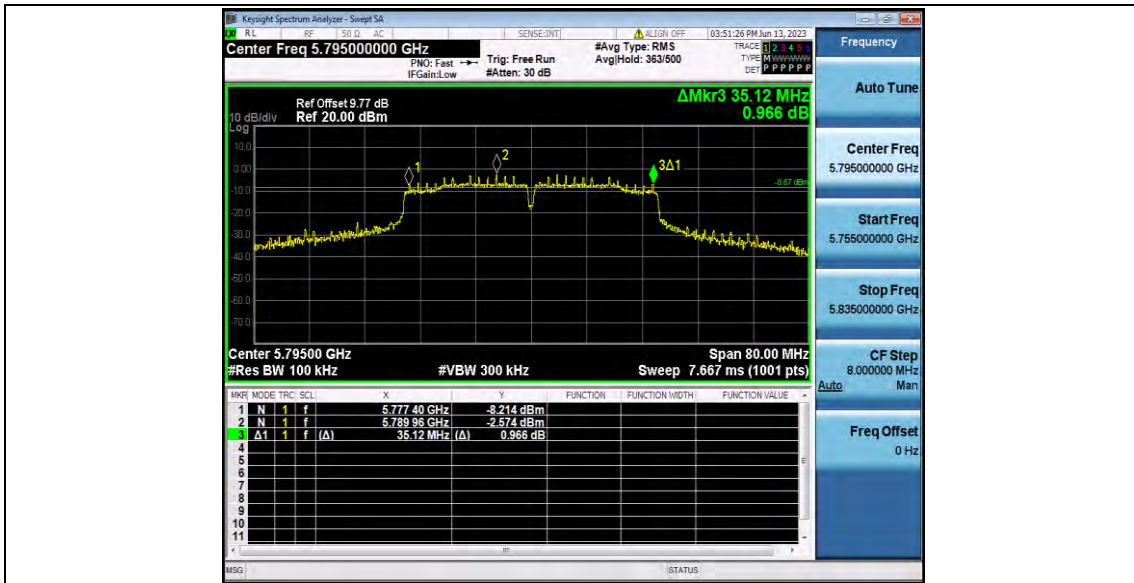
11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



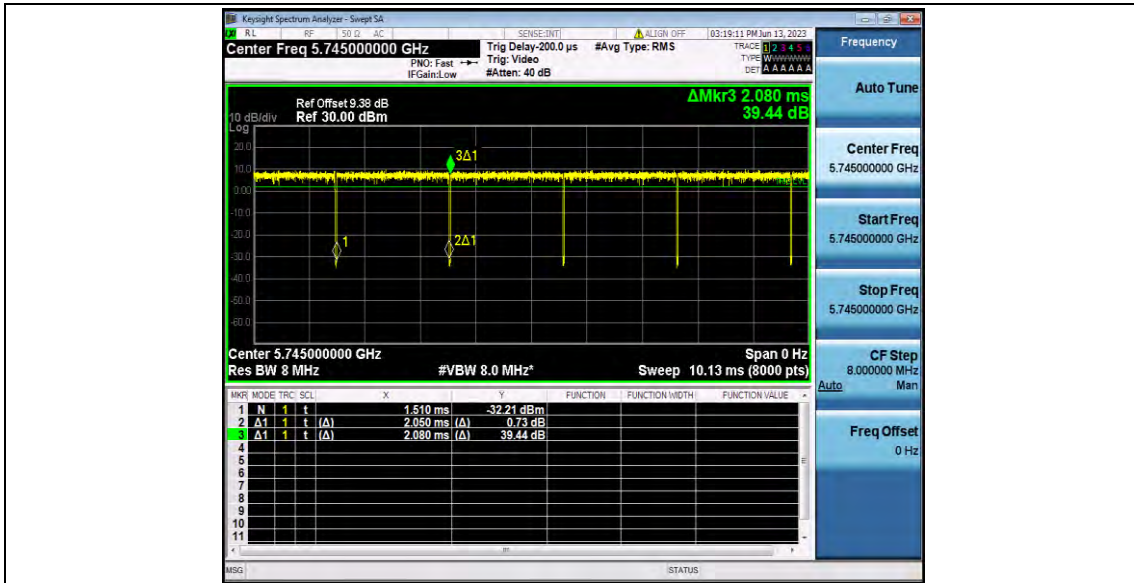
11AC80SISO_Ant1_5775

Appendix E.3: Duty Cycle

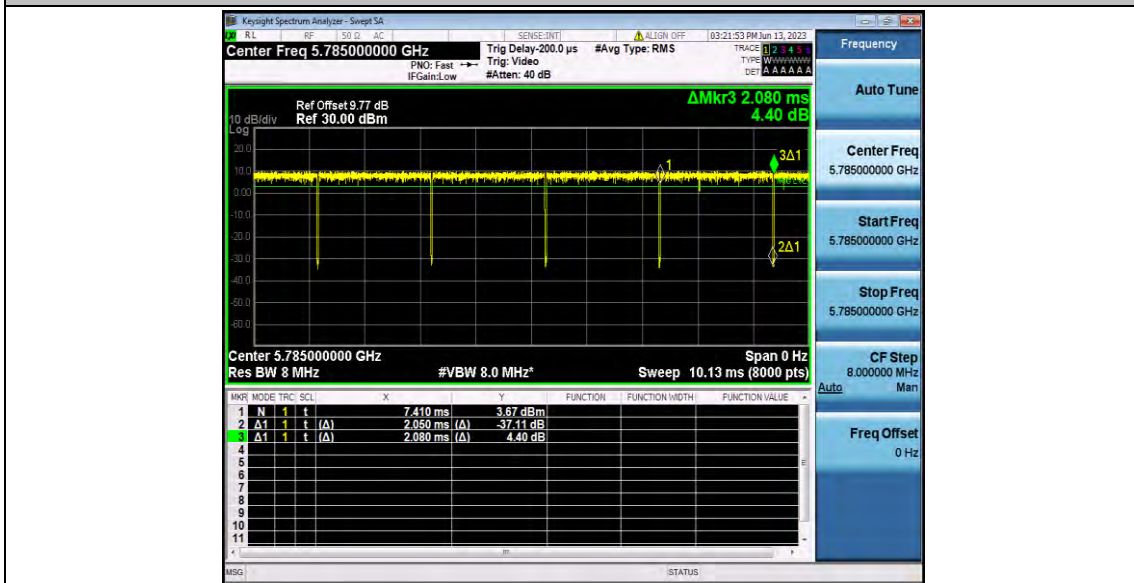
Test Result

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	2.08	98.56
		5825	2.05	2.08	98.56
11N20SISO	Ant1	5745	1.91	1.94	98.45
		5785	1.91	1.94	98.45
		5825	1.91	1.93	98.96
11N40SISO	Ant1	5755	0.94	0.96	97.92
		5795	0.93	0.96	96.88
11AC20SISO	Ant1	5745	1.91	1.94	98.45
		5785	1.92	1.95	98.46
		5825	1.92	1.95	98.46
11AC40SISO	Ant1	5755	0.94	0.97	96.91
		5795	0.95	0.97	97.94
11AC80SISO	Ant1	5775	0.43	0.46	93.48

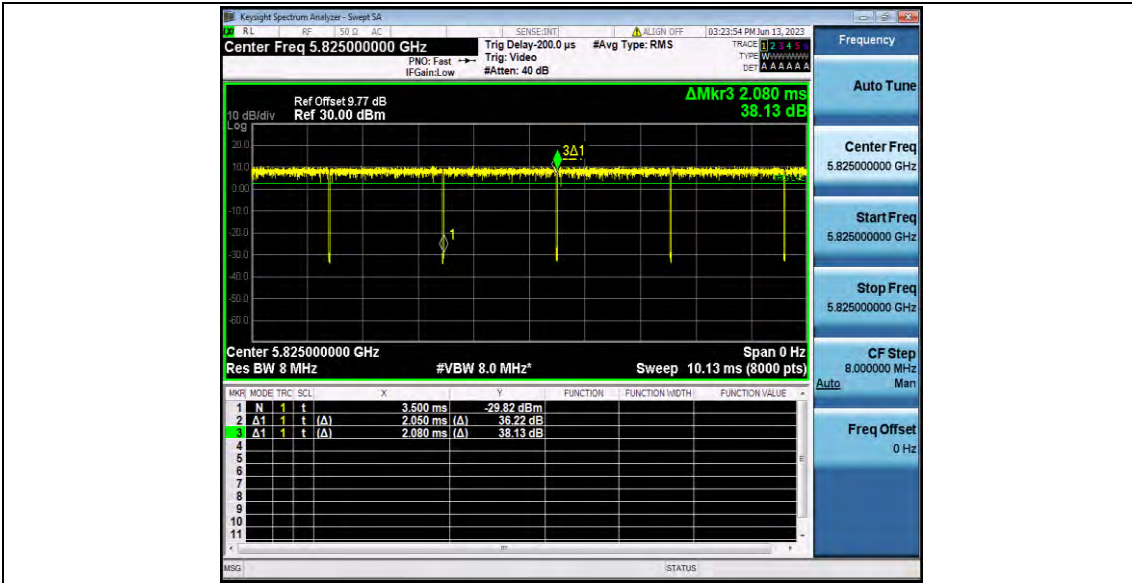
Test Graphs



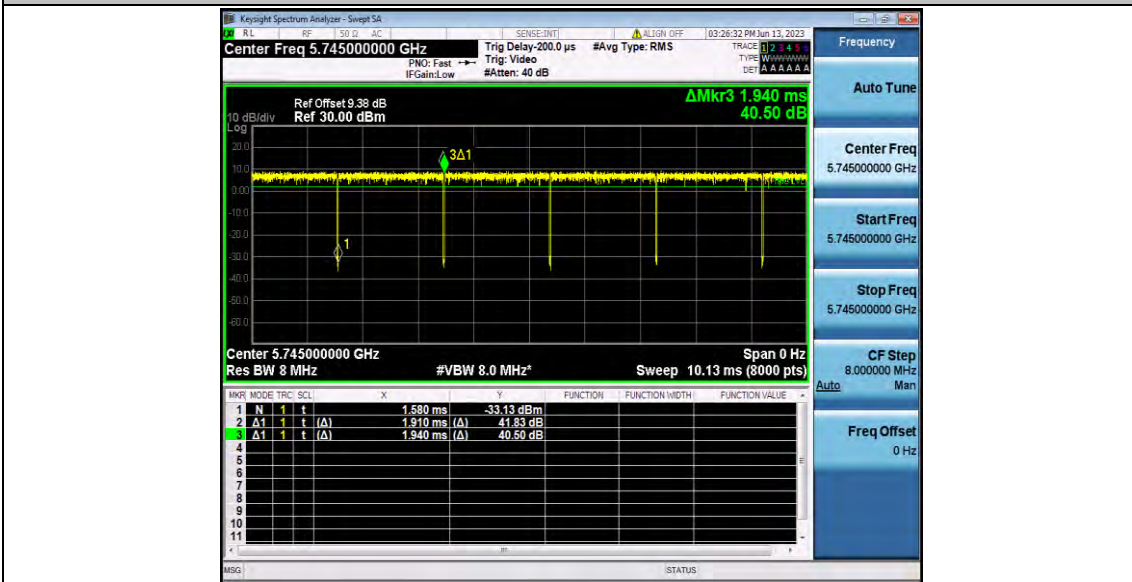
11A_Ant1_5745



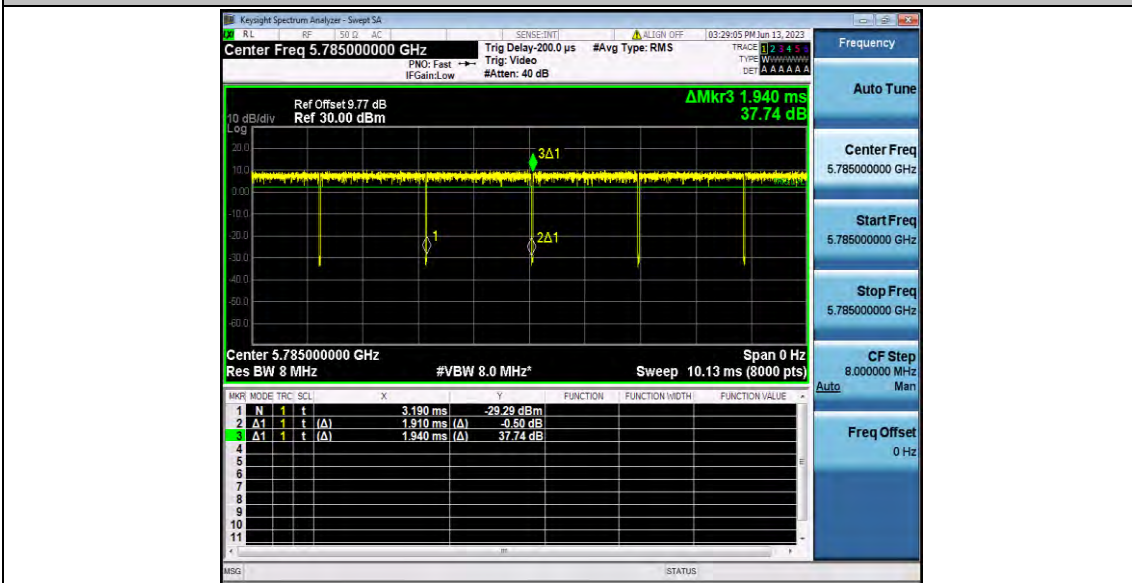
11A_Ant1_5785



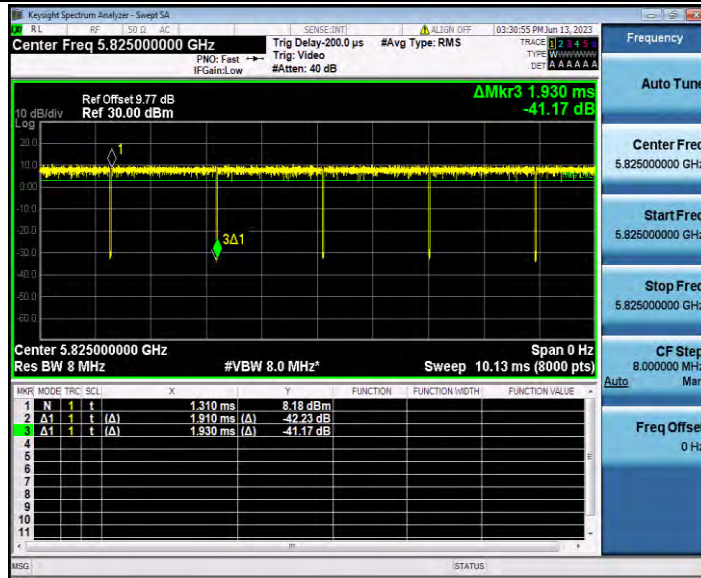
11A_Ant1_5825



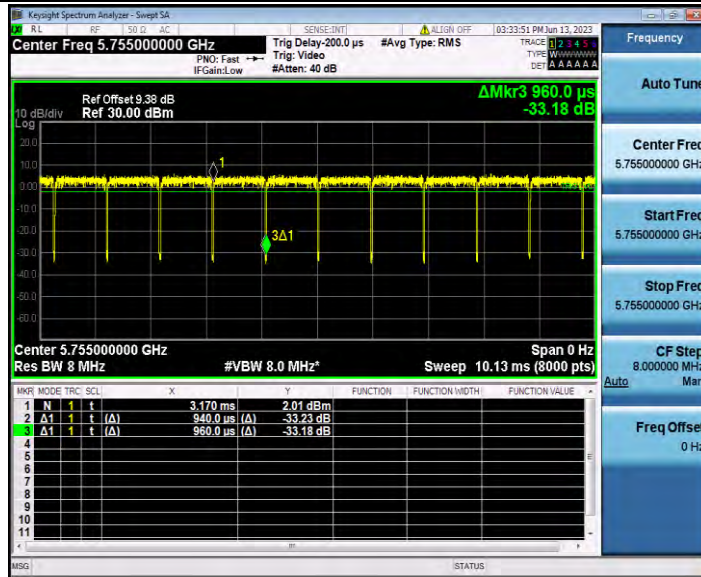
11N20SISO_Ant1_5745



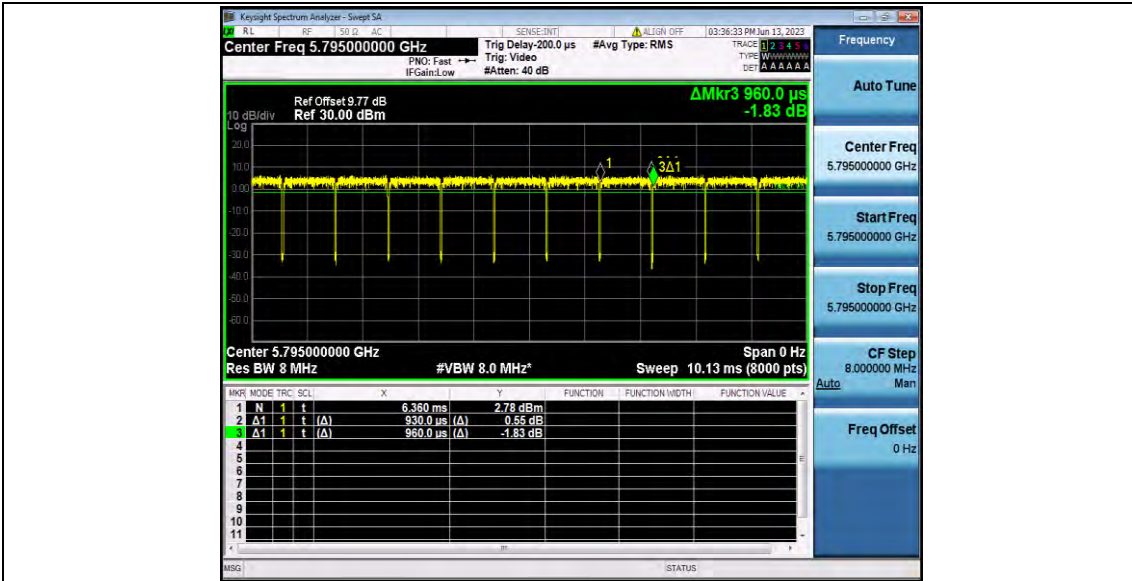
11N20SISO_Ant1_5785



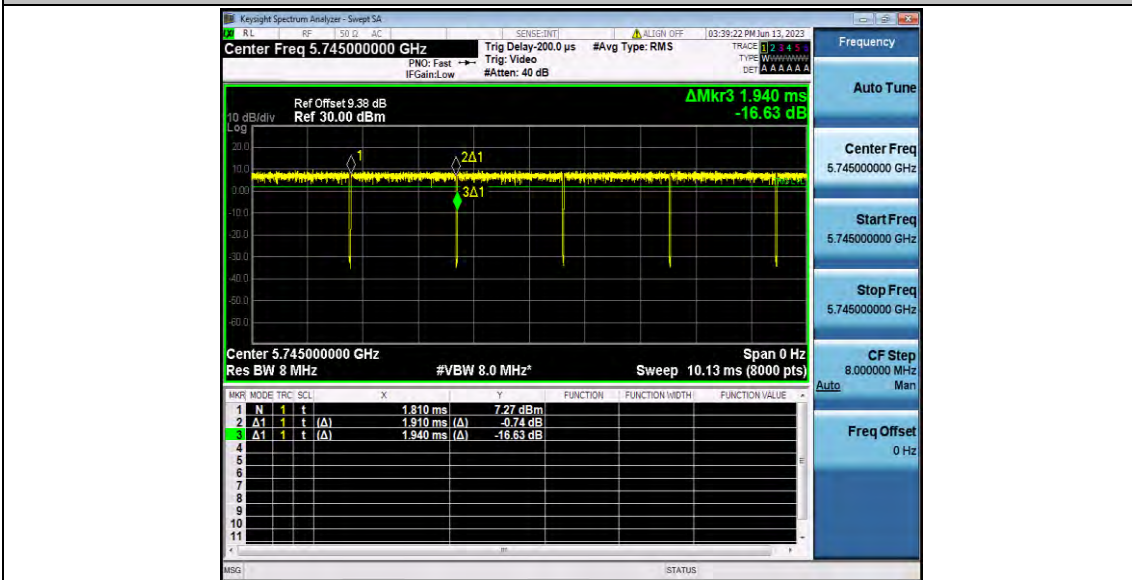
11N20SISO_Ant1_5825



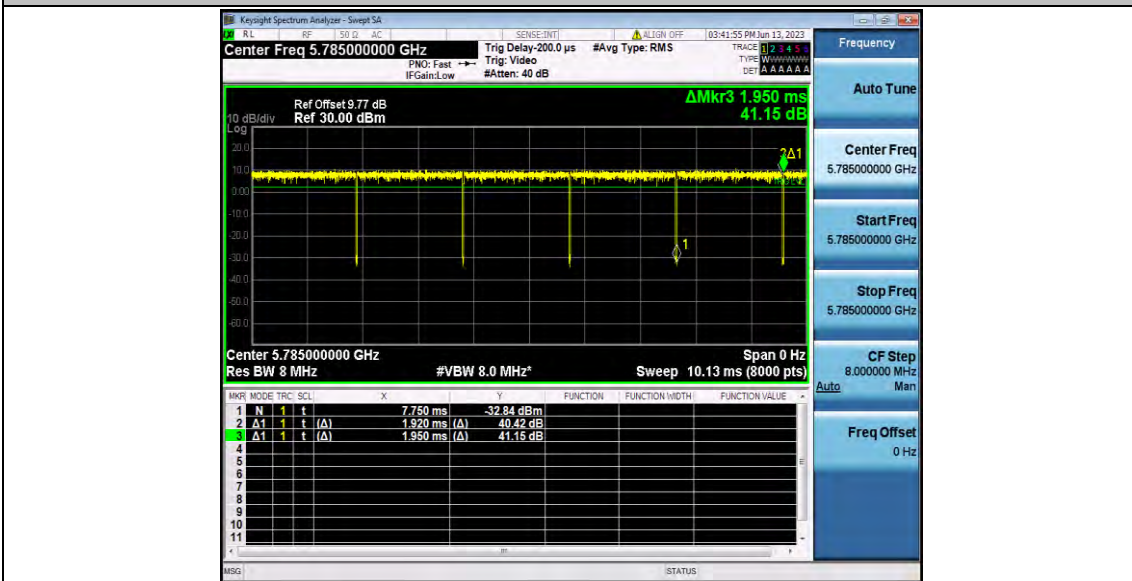
11N40SISO_Ant1_5755



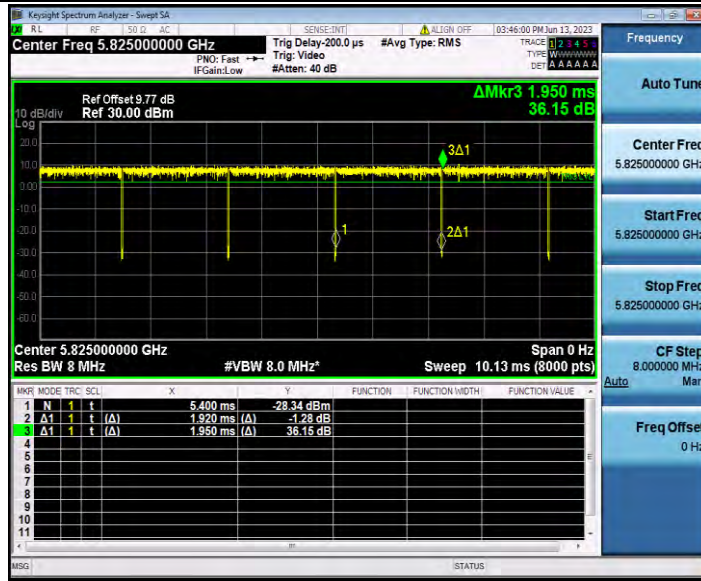
11N40SISO_Ant1_5795



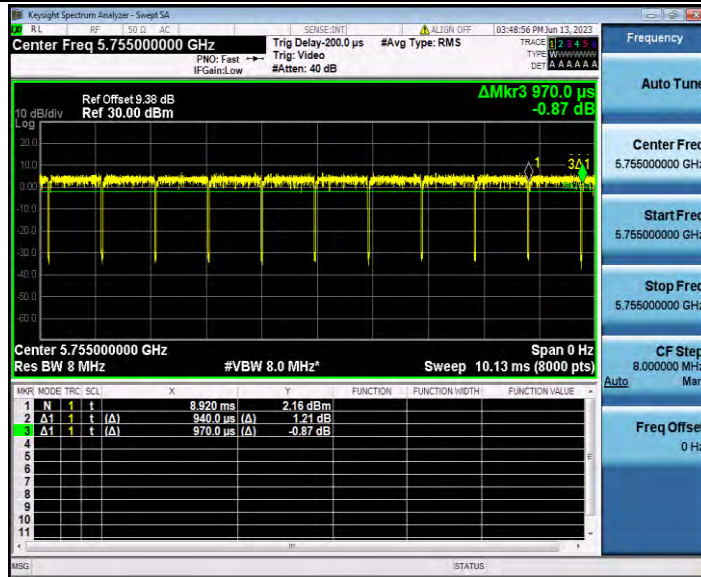
11AC20SISO_Ant1_5745



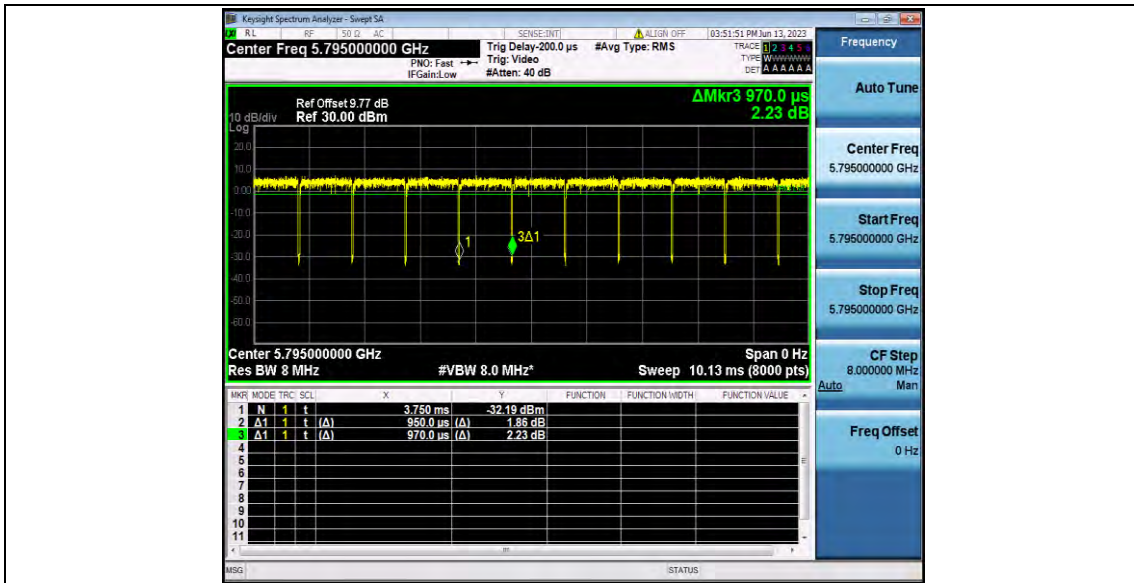
11AC20SISO_Ant1_5785



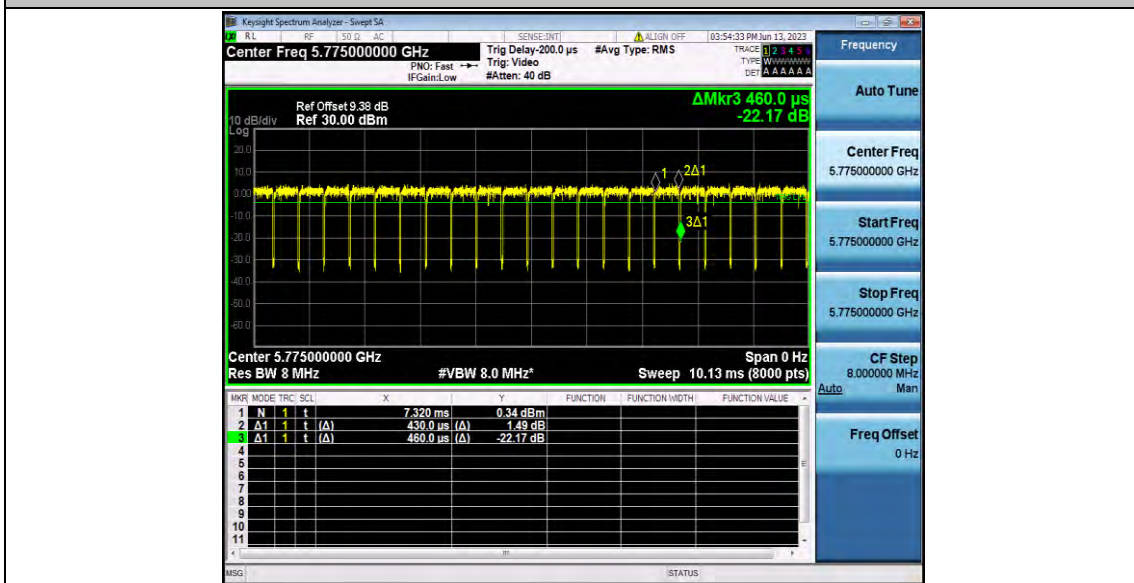
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



11AC80SISO_Ant1_5775

Appendix E.4: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Frequency[MHz]	Channel Power [dBm]	Duty Cycle [%]	DC Factor [dBm]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	9.72	98.56	0.06	9.78	≤30.00	PASS
		5785	10.63	98.56	0.06	10.69	≤30.00	PASS
		5825	10.66	98.56	0.06	10.72	≤30.00	PASS
11N20SISO	Ant1	5745	9.61	98.45	0.07	9.68	≤30.00	PASS
		5785	10.59	98.45	0.07	10.66	≤30.00	PASS
		5825	10.61	98.96	0.05	10.66	≤30.00	PASS
11N40SISO	Ant1	5755	9.39	97.92	0.09	9.48	≤30.00	PASS
		5795	9.95	96.88	0.14	10.09	≤30.00	PASS
11AC20SISO	Ant1	5745	10.01	98.45	0.07	10.08	≤30.00	PASS
		5785	10.61	98.46	0.07	10.68	≤30.00	PASS
		5825	10.61	98.46	0.07	10.68	≤30.00	PASS
11AC40SISO	Ant1	5755	9.74	96.91	0.14	9.88	≤30.00	PASS
		5795	10.31	97.94	0.09	10.40	≤30.00	PASS
11AC80SISO	Ant1	5775	11.09	93.48	0.29	11.38	≤30.00	PASS

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

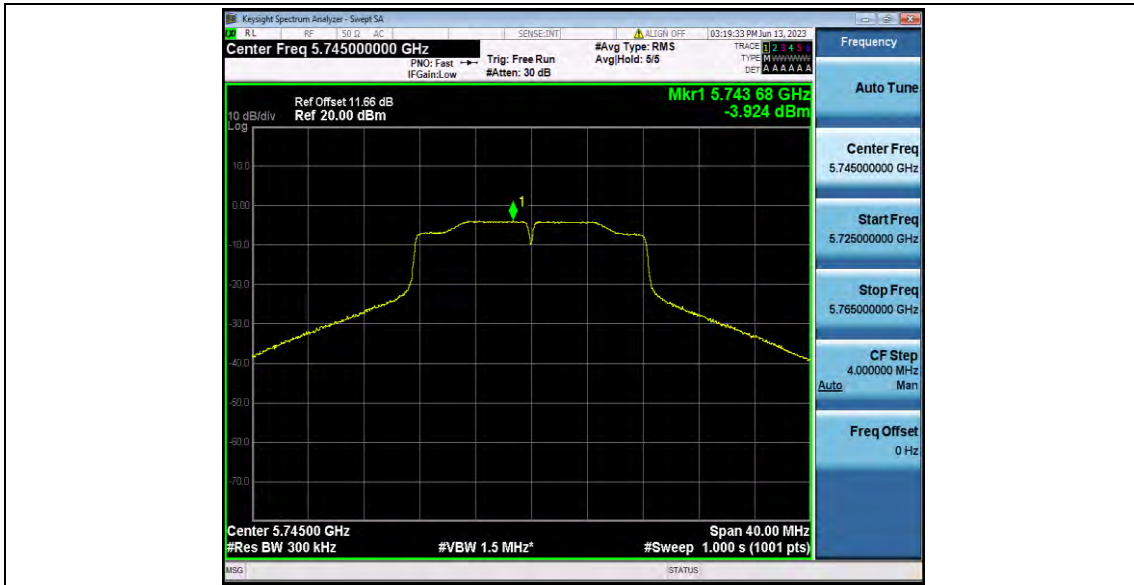
Appendix E.5: Maximum power spectral density

Test Result

Test Mode	Antenna	Frequency[MHz]	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	-3.92	≤30.00	PASS
		5785	-3.2	≤30.00	PASS
		5825	-2.97	≤30.00	PASS
11N20SISO	Ant1	5745	-4.25	≤30.00	PASS
		5785	-3.47	≤30.00	PASS
		5825	-3.22	≤30.00	PASS
11N40SISO	Ant1	5755	-7.46	≤30.00	PASS
		5795	-6.63	≤30.00	PASS
11AC20SISO	Ant1	5745	-3.81	≤30.00	PASS
		5785	-3.37	≤30.00	PASS
		5825	-3.21	≤30.00	PASS
11AC40SISO	Ant1	5755	-7.16	≤30.00	PASS
		5795	-6.49	≤30.00	PASS
11AC80SISO	Ant1	5775	-8.79	≤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.

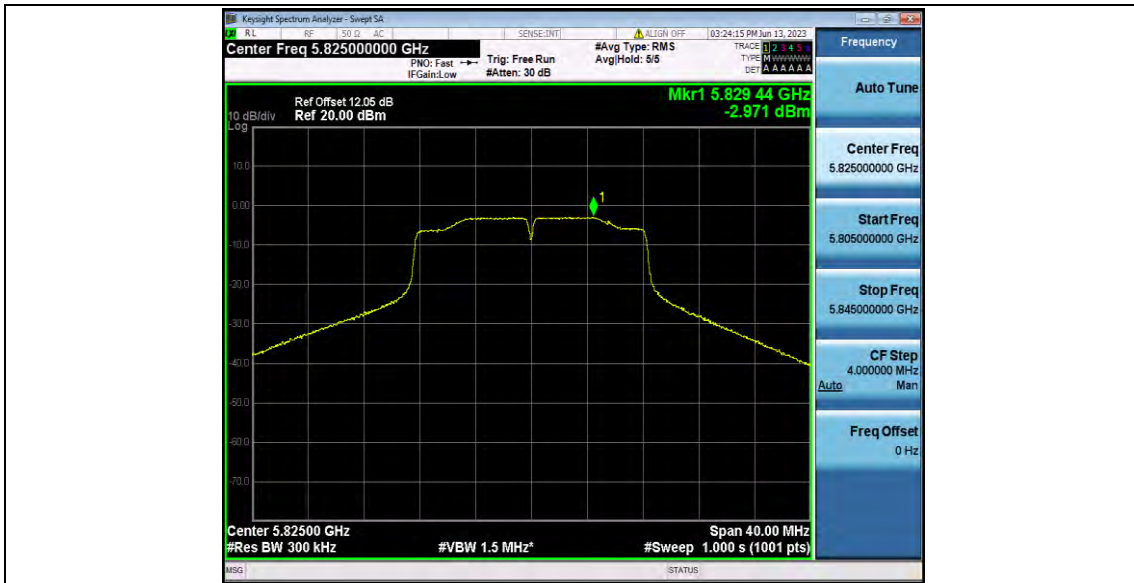
Test Graphs



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[MHz]	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-37.38	≤-8.06	PASS
				5700~5720	-32.67	≤15.14	PASS
				5720~5725	-23.49	≤26.57	PASS
				5760~5650	-39.37	≤-27	PASS
		High	5825	5850~5855	-33.98	≤18.26	PASS
				5855~5875	-34.6	≤10.29	PASS
				5875~5925	-37.51	≤3.51	PASS
				5925~5935	-37.41	≤-27	PASS
11N20SIS O	Ant1	Low	5745	5650~5700	-37.46	≤-11.81	PASS
				5700~5720	-30.61	≤14.95	PASS
				5720~5725	-21.45	≤26.83	PASS
				5760~5650	-39.45	≤-27	PASS
		High	5825	5850~5855	-31.52	≤17.03	PASS
				5855~5875	-35.34	≤10.85	PASS
				5875~5925	-37.18	≤-18.26	PASS
				5925~5935	-37.45	≤-27	PASS
11N40SIS O	Ant1	Low	5755	5650~5700	-34.63	≤9.26	PASS
				5700~5720	-23.4	≤14.60	PASS
				5720~5725	-19.86	≤24.36	PASS
				5780~5650	-38.59	≤-27	PASS
		High	5795	5850~5855	-35.83	≤16.41	PASS
				5855~5875	-37	≤10.27	PASS
				5875~5925	-37.35	≤-3.36	PASS
				5925~5935	-38.39	≤-27	PASS
11AC20SI SO	Ant1	Low	5745	5650~5700	-37.39	≤4.96	PASS
				5700~5720	-29.7	≤15.56	PASS
				5720~5725	-20.72	≤23.94	PASS
				5760~5650	-38.78	≤-27	PASS
		High	5825	5850~5855	-33.22	≤19.49	PASS
				5855~5875	-34.11	≤10.74	PASS
				5875~5925	-37.28	≤-18.86	PASS
				5925~5935	-37.23	≤-27	PASS
11AC40SI SO	Ant1	Low	5755	5650~5700	-33	≤9.36	PASS
				5700~5720	-20.73	≤15.58	PASS
				5720~5725	-19.16	≤23.12	PASS
				5780~5650	-38.32	≤-27	PASS

		High	5795	5850~5855	-36.38	≤ 15.66	PASS
				5855~5875	-35.18	≤ 11.70	PASS
				5875~5925	-37.6	≤ -9.71	PASS
				5925~5935	-37.9	≤ -27	PASS
11AC80SI SO	Ant1	Low	5775	5650~5700	-18.99	≤ 3.82	PASS
				5700~5720	-15.95	≤ 14.30	PASS
				5720~5725	-14.97	≤ 20.59	PASS
				5800~5650	-32.49	≤ -27	PASS
		High	5775	5850~5855	-19.87	≤ 18.75	PASS
				5855~5875	-21.38	≤ 10.64	PASS
				5875~5925	-27.62	≤ -24.63	PASS
				5925~5935	-36.12	≤ -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

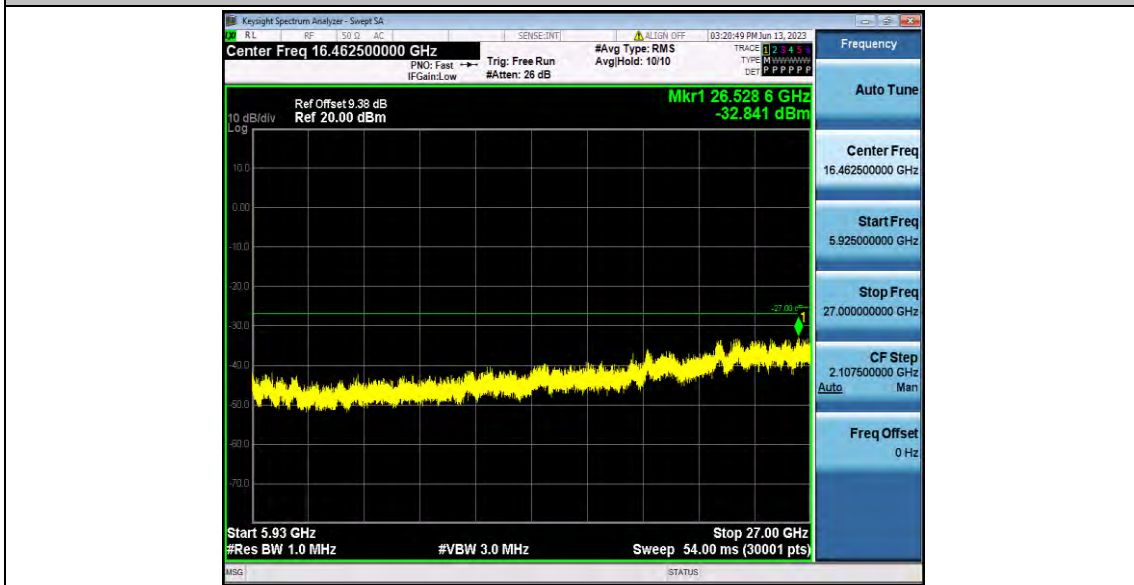
Test Result

Test Mode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5745	30~5650	5401.78	-39.85	≤-27	PASS
			5925~40000	26528.62	-32.84	≤-27	PASS
		5785	30~5650	5507.25	-40.13	≤-27	PASS
			5925~40000	26779.42	-31.81	≤-27	PASS
		5825	30~5650	5464.54	-40.33	≤-27	PASS
			5925~40000	24787.13	-32.31	≤-27	PASS
11N20SISO	Ant1	5745	30~5650	5638.95	-40.94	≤-27	PASS
			5925~40000	23594.98	-32.82	≤-27	PASS
		5785	30~5650	5376.49	-40.24	≤-27	PASS
			5925~40000	24172.44	-31.41	≤-27	PASS
		5825	30~5650	5469.04	-40.37	≤-27	PASS
			5925~40000	24230.04	-33.05	≤-27	PASS
11N40SISO	Ant1	5755	30~5650	5555.96	-40.37	≤-27	PASS
			5925~40000	24338.23	-31.79	≤-27	PASS
		5795	30~5650	5461.36	-40.61	≤-27	PASS
			5925~40000	25628.02	-31.42	≤-27	PASS
11AC20SISO	Ant1	5745	30~5650	5452.18	-40.71	≤-27	PASS
			5925~40000	24939.57	-32.56	≤-27	PASS
		5785	30~5650	5647	-39.92	≤-27	PASS
			5925~40000	24849.65	-31.8	≤-27	PASS
		5825	30~5650	5094.74	-40.57	≤-27	PASS
			5925~40000	26053.73	-32.01	≤-27	PASS
11AC40SISO	Ant1	5755	30~5650	4843.16	-41.06	≤-27	PASS
			5925~40000	25219.87	-33.15	≤-27	PASS
		5795	30~5650	5327.6	-40.36	≤-27	PASS
			5925~40000	24326.99	-32.34	≤-27	PASS
11AC80SISO	Ant1	5775	30~5650	5637.64	-34.9	≤-27	PASS
			5925~40000	24243.39	-32.78	≤-27	PASS

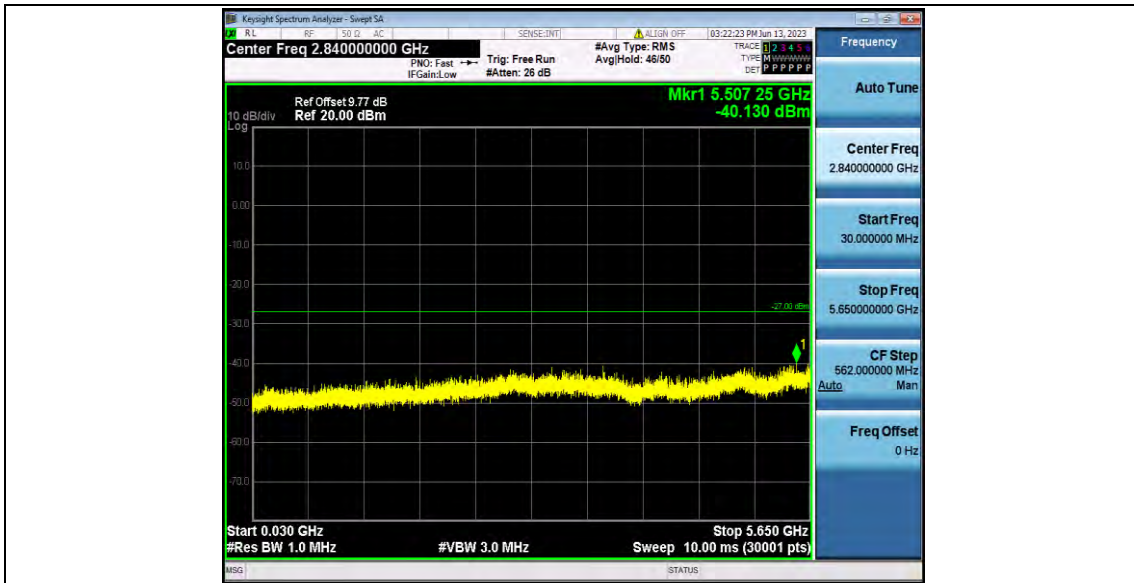
Test Graphs



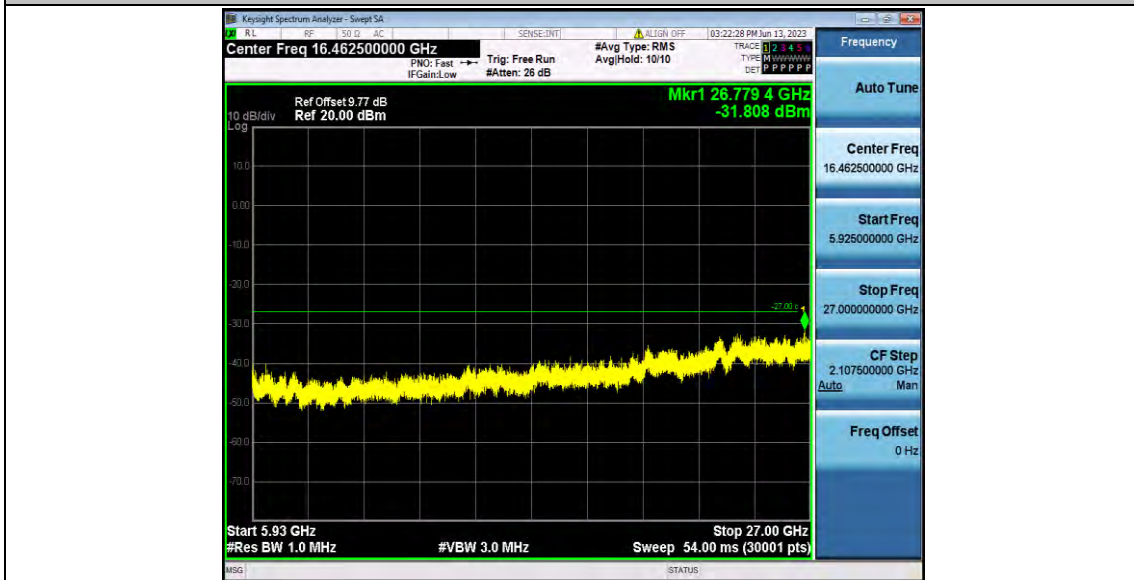
11A_Ant1_5745_30~5650



11A_Ant1_5745_5925~40000



11A_Ant1_5785_30~5650



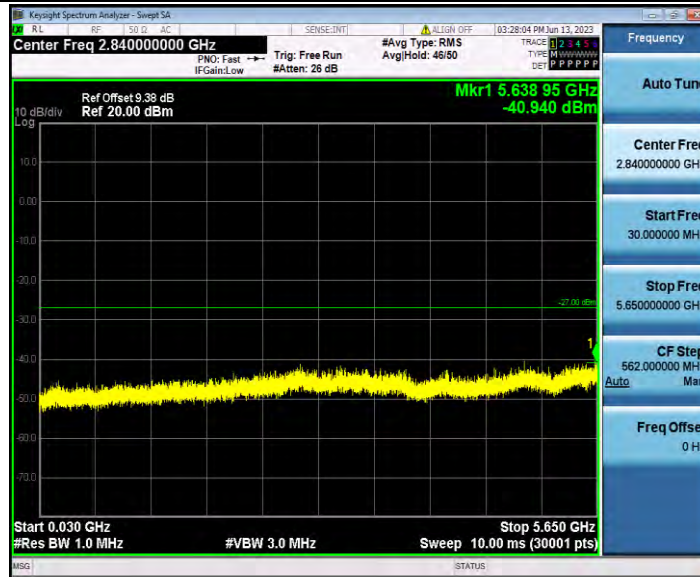
11A_Ant1_5785_5925~40000



11A_Ant1_5825_30~5650



11A_Ant1_5825_5925~40000



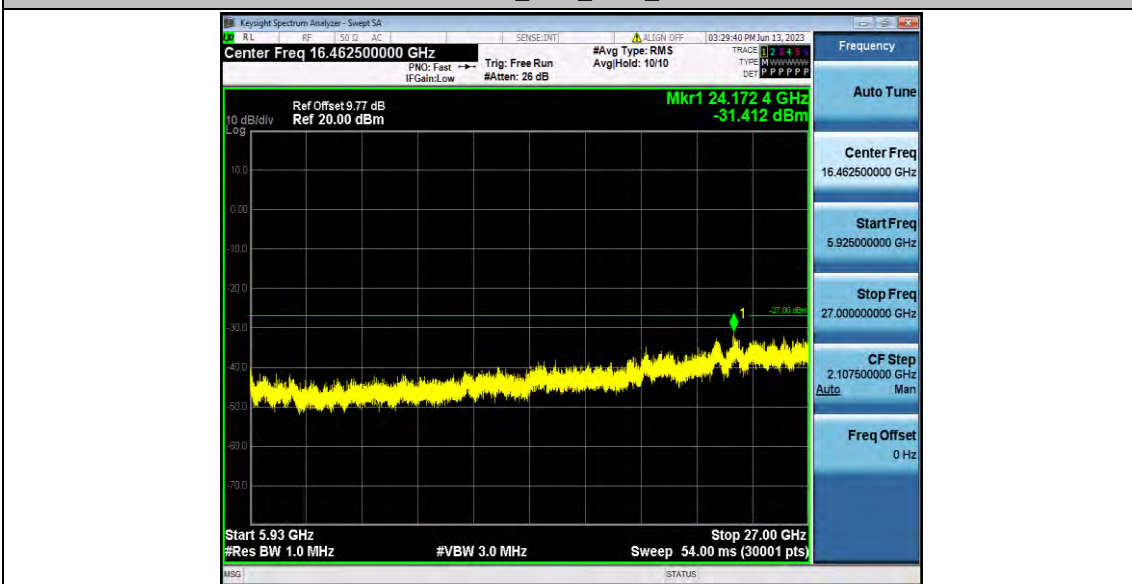
11N20SISO_Ant1_5745_30~5650



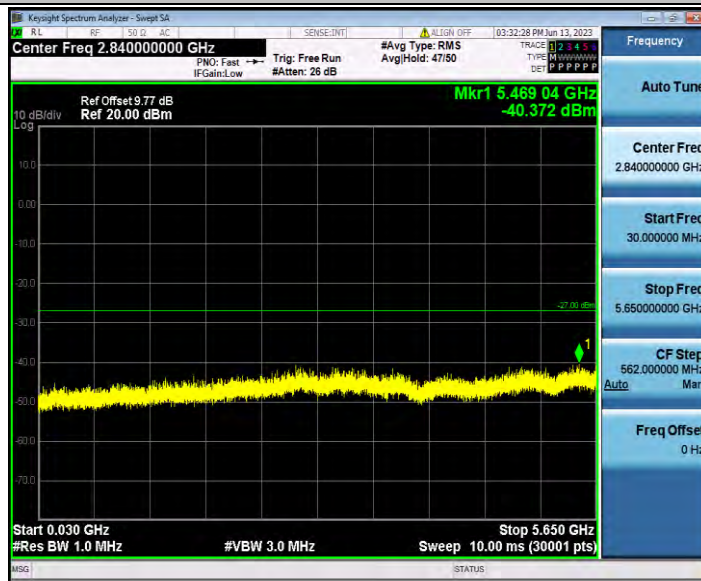
11N20SISO_Ant1_5745_5925~40000



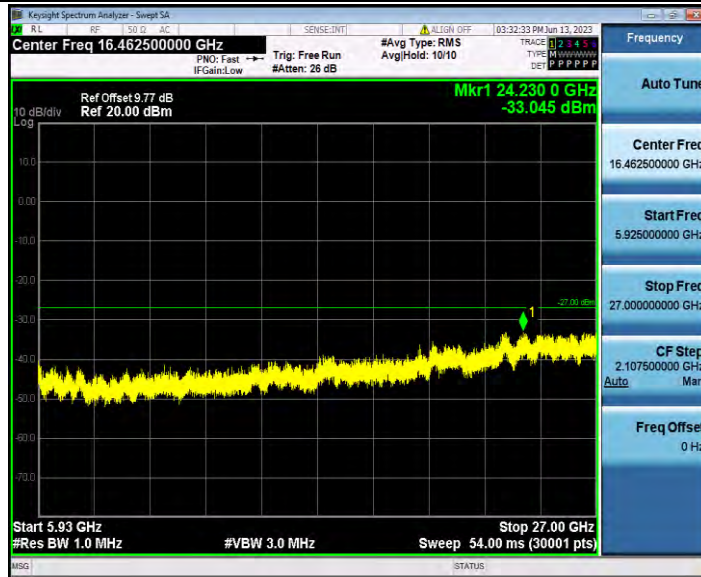
11N20SISO_Ant1_5785_30~5650



11N20SISO_Ant1_5785_5925~40000



11N20SISO_Ant1_5825_30~5650



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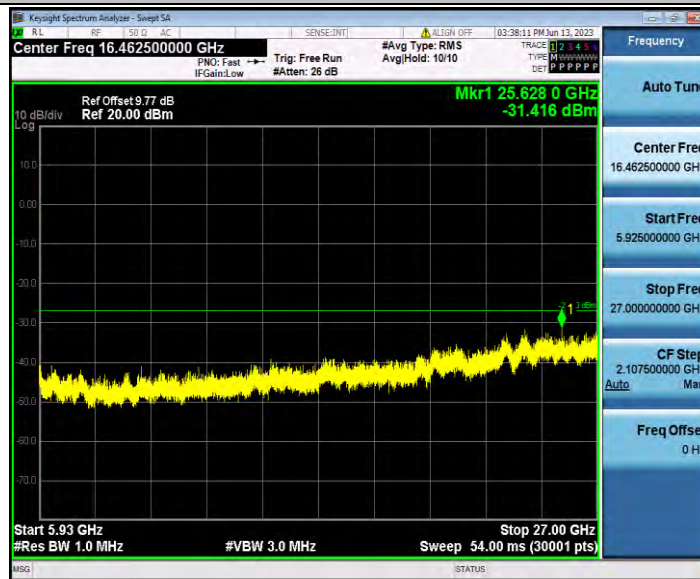
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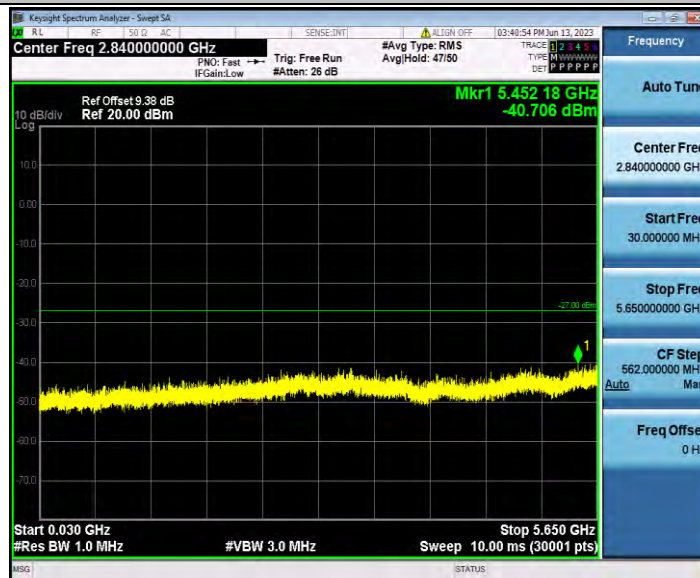
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11N40SISO_Ant1_5795_30~5650



11N40SISO_Ant1_5795_5925~40000



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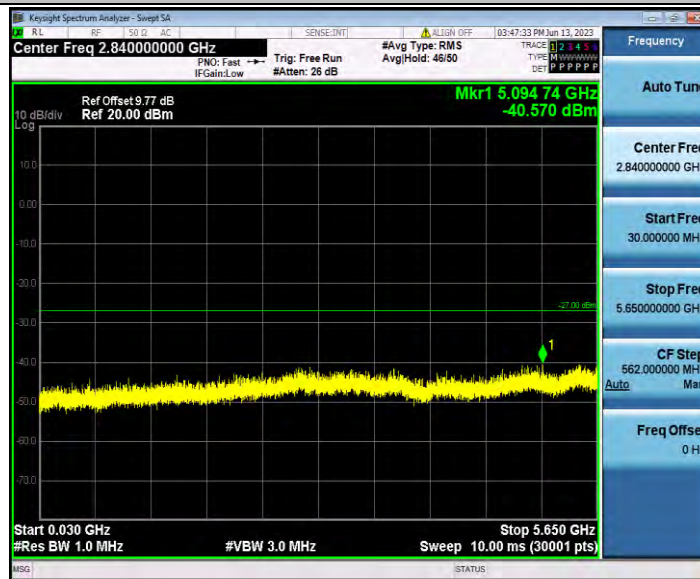
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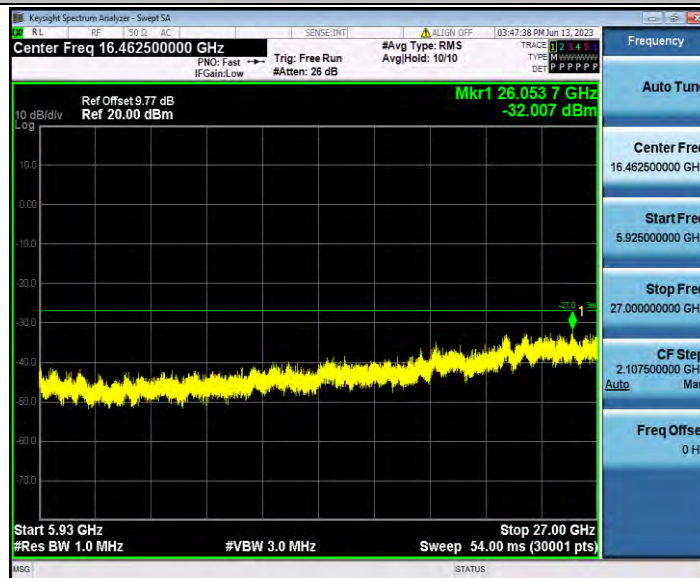
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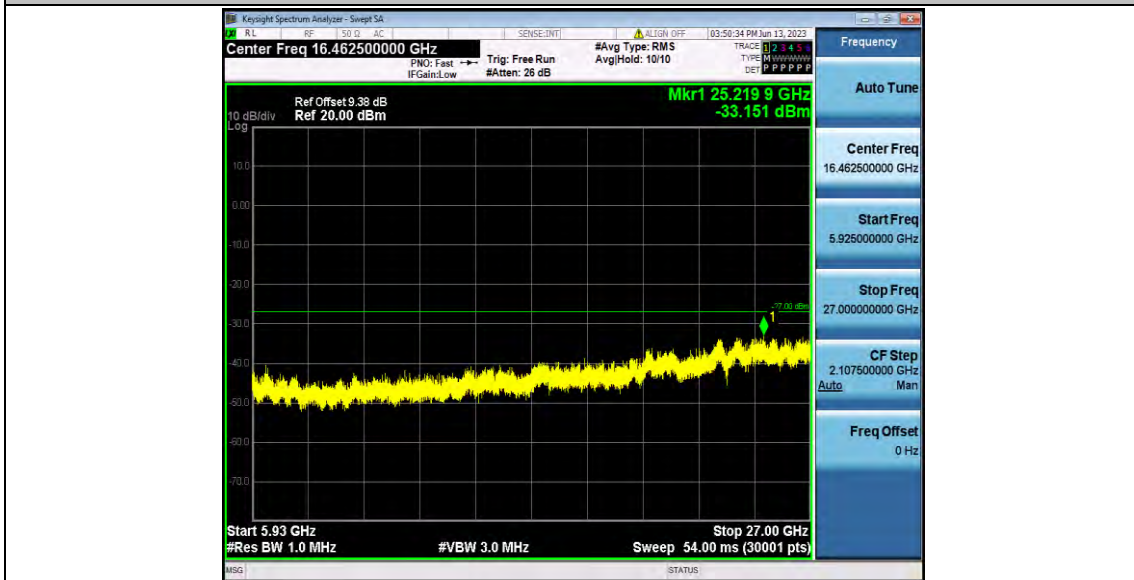
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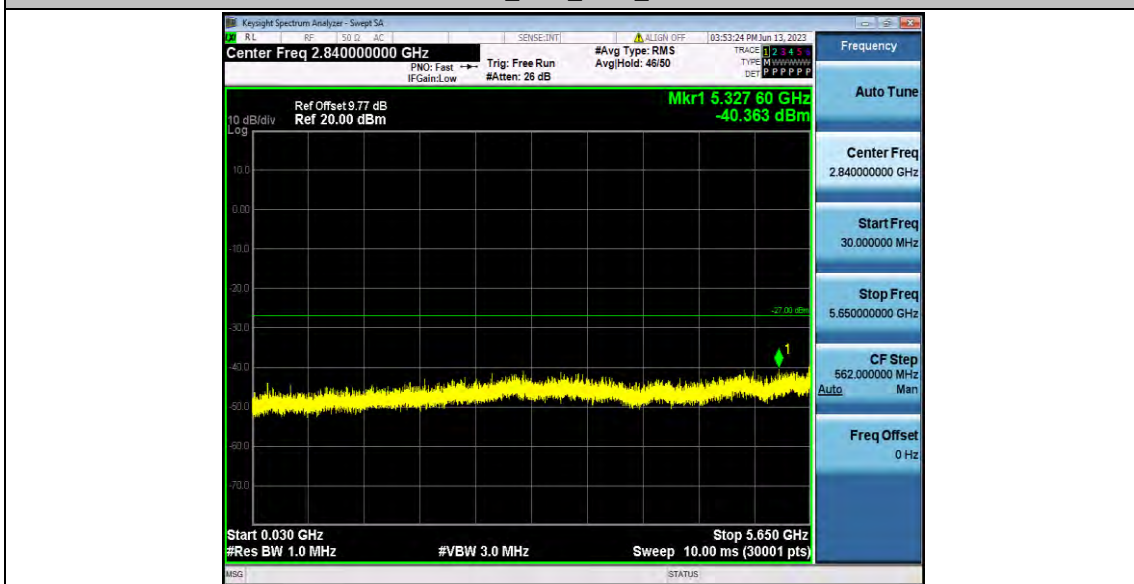
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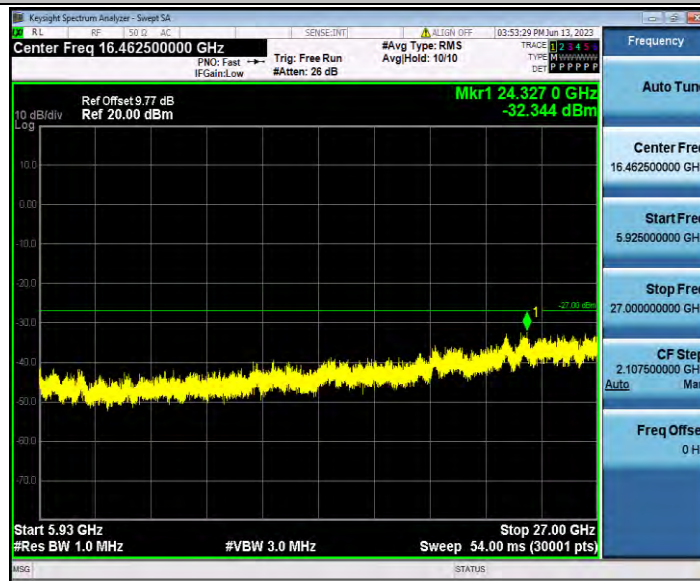
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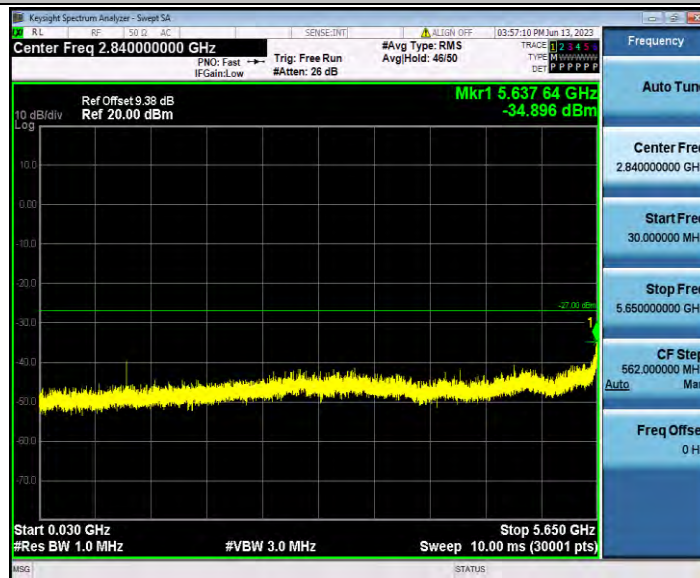
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11AC40SISO_Ant1_5795_30~5650



11AC40SISO_Ant1_5795_5925~40000



11AC80SISO_Ant1_5775_30~5650

