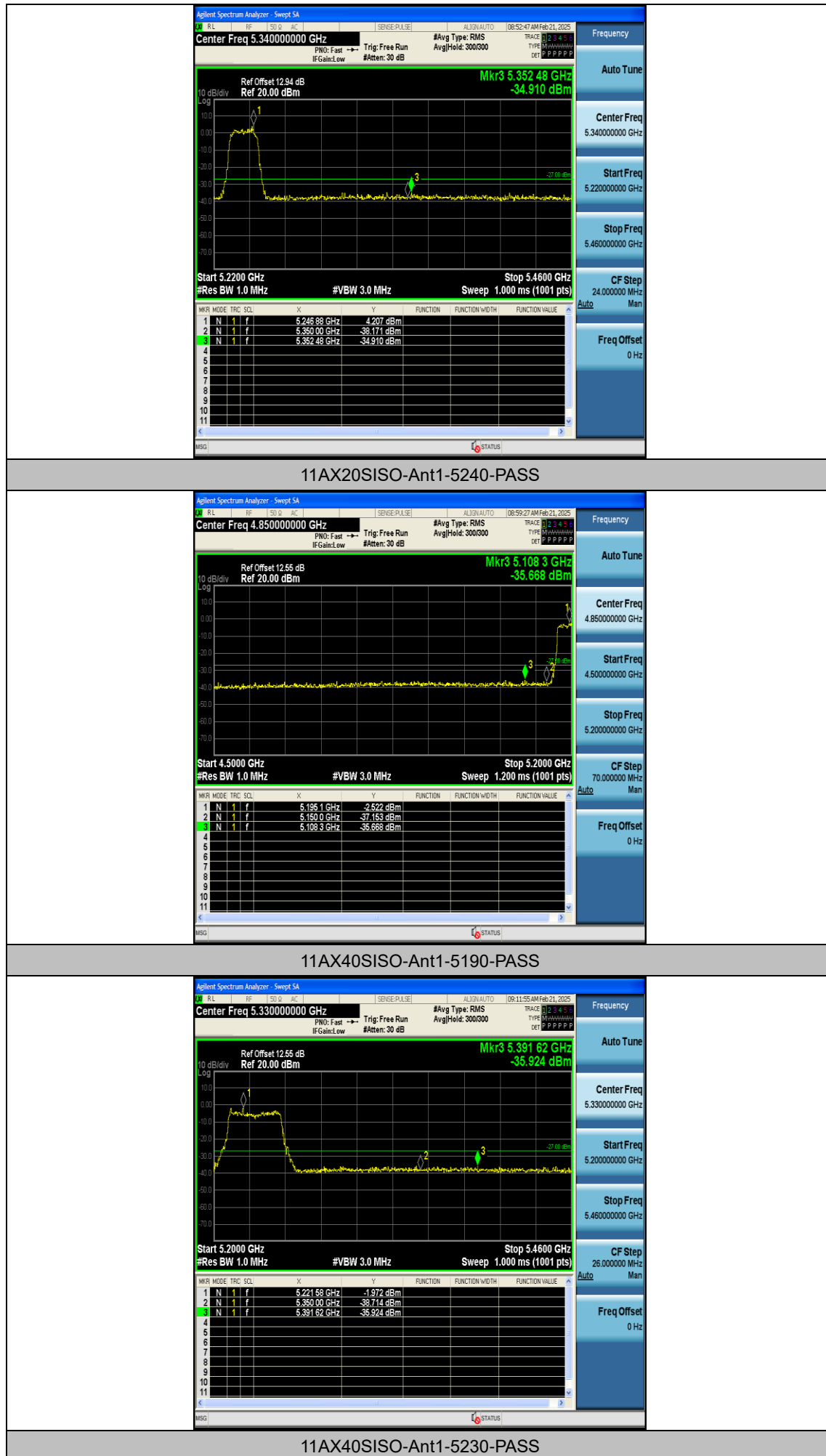




Appendix E: Frequency Stability

Test Result

Ant1

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VDC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5180	20	4.07	5180.005129	5150 – 5250	PASS
5180	20	3.33	5179.969335	5150 – 5250	PASS
5180	50	3.70	5180.034933	5150 – 5250	PASS
5180	40	3.70	5179.961207	5150 – 5250	PASS
5180	30	3.70	5179.944016	5150 – 5250	PASS
5180	20	3.70	5179.953366	5150 – 5250	PASS
5180	10	3.70	5179.926704	5150 – 5250	PASS
5180	0	3.70	5179.968161	5150 – 5250	PASS
5180	-10	3.70	5180.093015	5150 – 5250	PASS
5180	-20	3.70	5179.977630	5150 – 5250	PASS
5180	-30	3.70	5179.939434	5150 – 5250	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VDC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5200	20	4.07	5199.946412	5150 – 5250	PASS
5200	20	3.33	5200.094176	5150 – 5250	PASS
5200	50	3.70	5200.039637	5150 – 5250	PASS
5200	40	3.70	5199.934464	5150 – 5250	PASS
5200	30	3.70	5200.037124	5150 – 5250	PASS
5200	20	3.70	5200.046432	5150 – 5250	PASS
5200	10	3.70	5199.944760	5150 – 5250	PASS
5200	0	3.70	5199.947695	5150 – 5250	PASS
5200	-10	3.70	5199.921535	5150 – 5250	PASS
5200	-20	3.70	5200.068697	5150 – 5250	PASS
5200	-30	3.70	5200.019136	5150 – 5250	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VDC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5240	20	4.07	5240.022422	5150 – 5250	PASS
5240	20	3.33	5239.979973	5150 – 5250	PASS
5240	50	3.70	5239.911140	5150 – 5250	PASS
5240	40	3.70	5240.011221	5150 – 5250	PASS
5240	30	3.70	5240.076001	5150 – 5250	PASS
5240	20	3.70	5240.097196	5150 – 5250	PASS
5240	10	3.70	5239.964981	5150 – 5250	PASS
5240	0	3.70	5239.934266	5150 – 5250	PASS
5240	-10	3.70	5239.964559	5150 – 5250	PASS
5240	-20	3.70	5240.005501	5150 – 5250	PASS
5240	-30	3.70	5239.949387	5150 – 5250	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VDC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5190	20	4.07	5190.087750	5150 – 5250	PASS
5190	20	3.33	5189.930950	5150 – 5250	PASS
5190	50	3.70	5189.928768	5150 – 5250	PASS
5190	40	3.70	5189.971984	5150 – 5250	PASS
5190	30	3.70	5189.981768	5150 – 5250	PASS
5190	20	3.70	5190.087799	5150 – 5250	PASS
5190	10	3.70	5190.093155	5150 – 5250	PASS
5190	0	3.70	5190.012565	5150 – 5250	PASS
5190	-10	3.70	5190.021701	5150 – 5250	PASS
5190	-20	3.70	5189.987662	5150 – 5250	PASS
5190	-30	3.70	5190.027504	5150 – 5250	PASS

Ant1

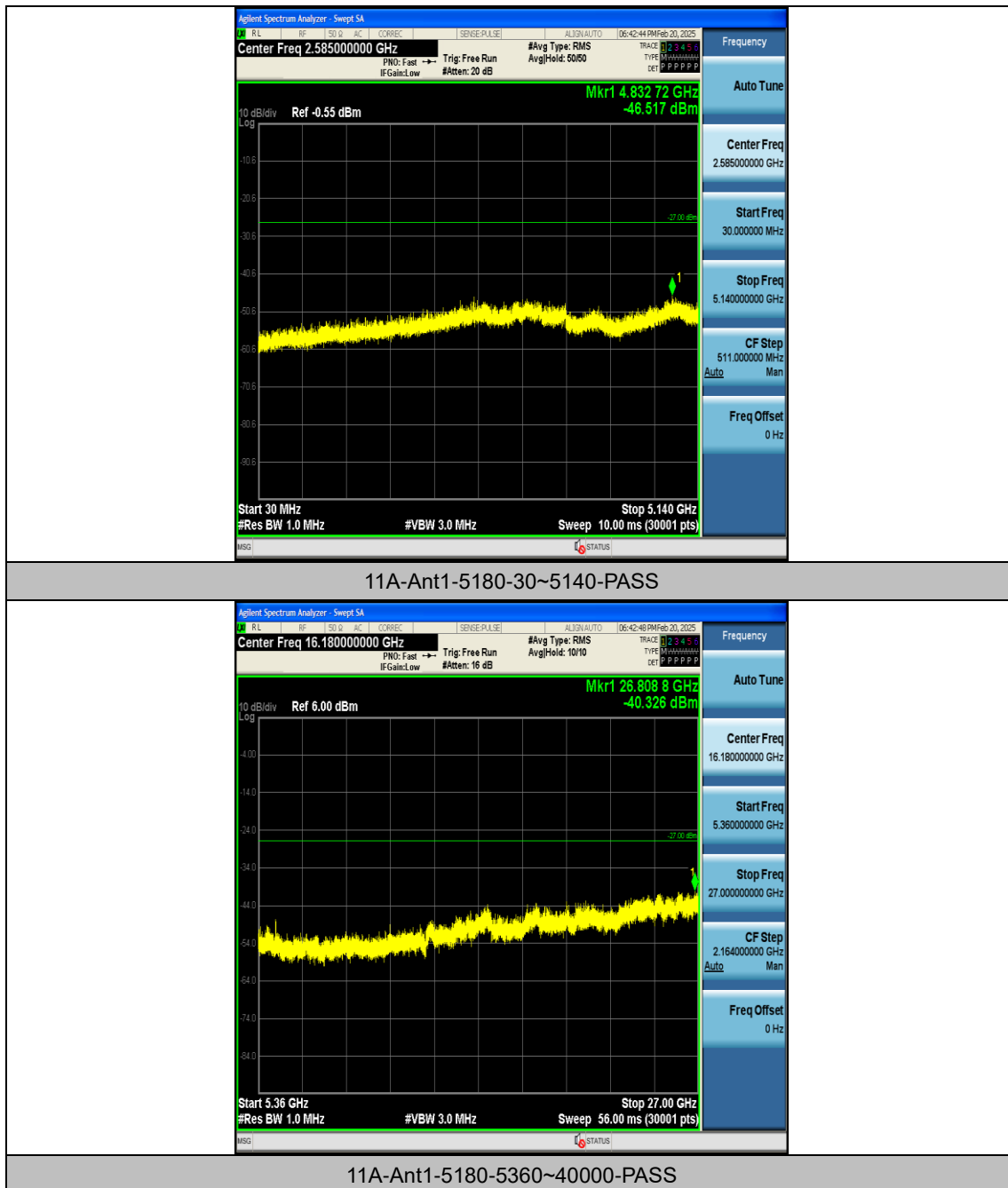
Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VDC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5230	20	4.07	5229.942115	5150 – 5250	PASS
5230	20	3.33	5229.909968	5150 – 5250	PASS
5230	50	3.70	5230.079754	5150 – 5250	PASS
5230	40	3.70	5230.049069	5150 – 5250	PASS
5230	30	3.70	5230.053682	5150 – 5250	PASS
5230	20	3.70	5229.996703	5150 – 5250	PASS
5230	10	3.70	5230.037926	5150 – 5250	PASS
5230	0	3.70	5230.058278	5150 – 5250	PASS
5230	-10	3.70	5230.070241	5150 – 5250	PASS
5230	-20	3.70	5229.960882	5150 – 5250	PASS
5230	-30	3.70	5229.926624	5150 – 5250	PASS

Appendix F: Conducted Spurious Emission

Test Result

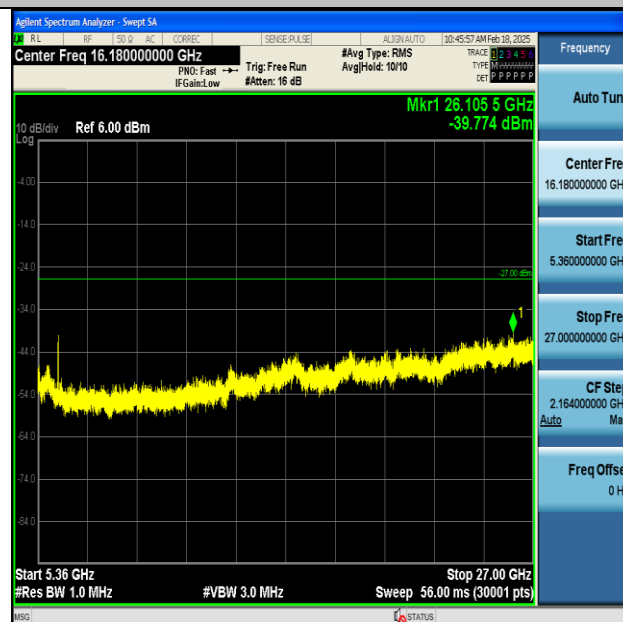
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	Max. Fre [MHz]	Max. Level [dBm]	Limit [dBm]	Verdict
11A	Ant1	5180	30~5140	4832.72	-46.52	≤-27	PASS
11A	Ant1	5180	5360~40000	26808.85	-40.33	≤-27	PASS
11A	Ant1	5200	30~5140	4814.66	-43.41	≤-27	PASS
11A	Ant1	5200	5360~40000	26105.55	-39.77	≤-27	PASS
11A	Ant1	5240	30~5140	4833.23	-44.36	≤-27	PASS
11A	Ant1	5240	5360~40000	25762.91	-40.02	≤-27	PASS
11N20SISO	Ant1	5180	30~5140	4853.67	-43.03	≤-27	PASS
11N20SISO	Ant1	5180	5360~40000	26129.35	-39.35	≤-27	PASS
11N20SISO	Ant1	5200	30~5140	4851.8	-44.2	≤-27	PASS
11N20SISO	Ant1	5200	5360~40000	26847.8	-39.77	≤-27	PASS
11N20SISO	Ant1	5240	30~5140	3402.26	-43.49	≤-27	PASS
11N20SISO	Ant1	5240	5360~40000	26833.37	-39.6	≤-27	PASS
11N40SISO	Ant1	5190	30~5140	5140	-39.94	≤-27	PASS
11N40SISO	Ant1	5190	5360~40000	6214.06	-36.7	≤-27	PASS
11N40SISO	Ant1	5230	30~5140	4873.09	-41.93	≤-27	PASS
11N40SISO	Ant1	5230	5360~40000	6258.78	-36.54	≤-27	PASS
11AC20SISO	Ant1	5180	30~5140	4827.44	-42.76	≤-27	PASS
11AC20SISO	Ant1	5180	5360~40000	26979.08	-39.69	≤-27	PASS
11AC20SISO	Ant1	5200	30~5140	4852.14	-43.88	≤-27	PASS
11AC20SISO	Ant1	5200	5360~40000	26801.63	-39.78	≤-27	PASS
11AC20SISO	Ant1	5240	30~5140	4868.66	-43	≤-27	PASS
11AC20SISO	Ant1	5240	5360~40000	26075.97	-38.75	≤-27	PASS
11AC40SISO	Ant1	5190	30~5140	5139.15	-38.12	≤-27	PASS
11AC40SISO	Ant1	5190	5360~40000	6245.8	-35.99	≤-27	PASS
11AC40SISO	Ant1	5230	30~5140	4920.1	-41.12	≤-27	PASS
11AC40SISO	Ant1	5230	5360~40000	6258.78	-36.1	≤-27	PASS
11AX20SISO	Ant1	5180	30~5140	4880.58	-43.57	≤-27	PASS
11AX20SISO	Ant1	5180	5360~40000	6207.57	-38.63	≤-27	PASS
11AX20SISO	Ant1	5200	30~5140	4860.48	-43.49	≤-27	PASS
11AX20SISO	Ant1	5200	5360~40000	26387.59	-39.17	≤-27	PASS
11AX20SISO	Ant1	5240	30~5140	4864.23	-43.04	≤-27	PASS
11AX20SISO	Ant1	5240	5360~40000	26883.87	-39.83	≤-27	PASS
11AX40SISO	Ant1	5190	30~5140	5134.38	-36.46	≤-27	PASS
11AX40SISO	Ant1	5190	5360~40000	6210.45	-35.77	≤-27	PASS
11AX40SISO	Ant1	5230	30~5140	4883.14	-41.78	≤-27	PASS
11AX40SISO	Ant1	5230	5360~40000	6259.5	-34.87	≤-27	PASS

Test Graphs

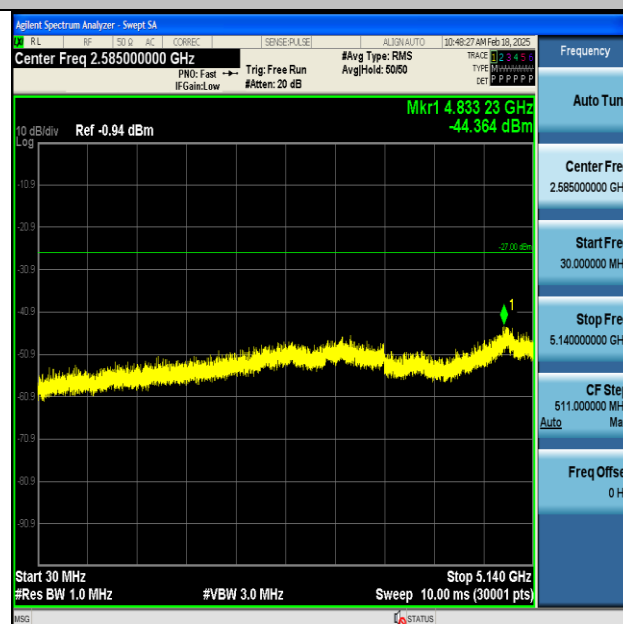




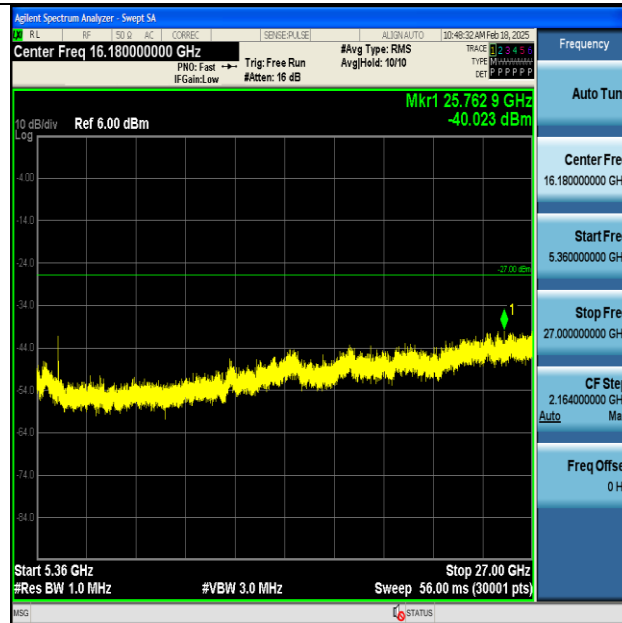
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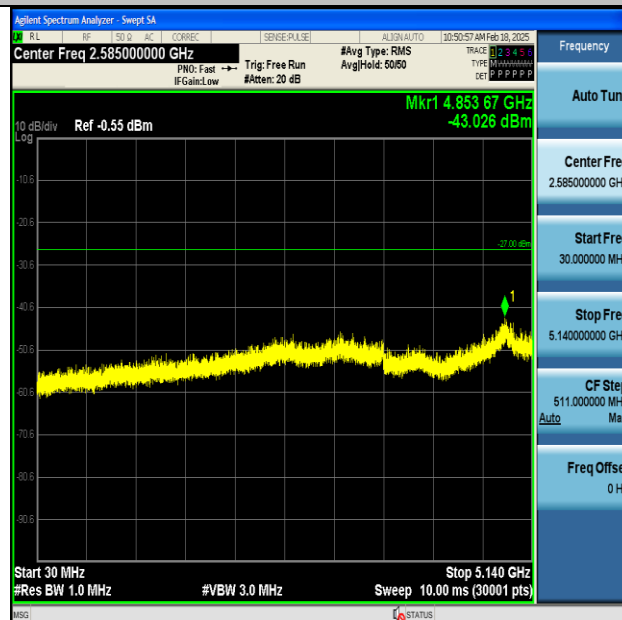
11A-Ant1-5200-5360~40000-PASS



11A-Ant1-5240-30~5140-PASS



11A-Ant1-5240-5360~40000-PASS



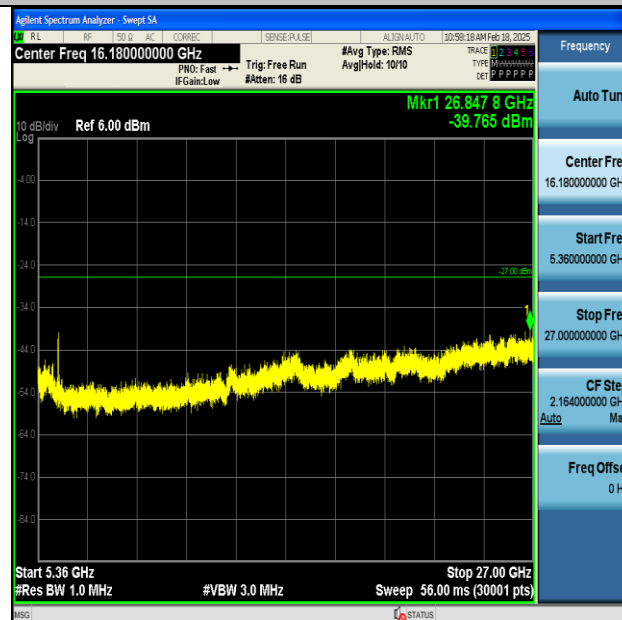
11N20SISO-Ant1-5180-30~5140-PASS



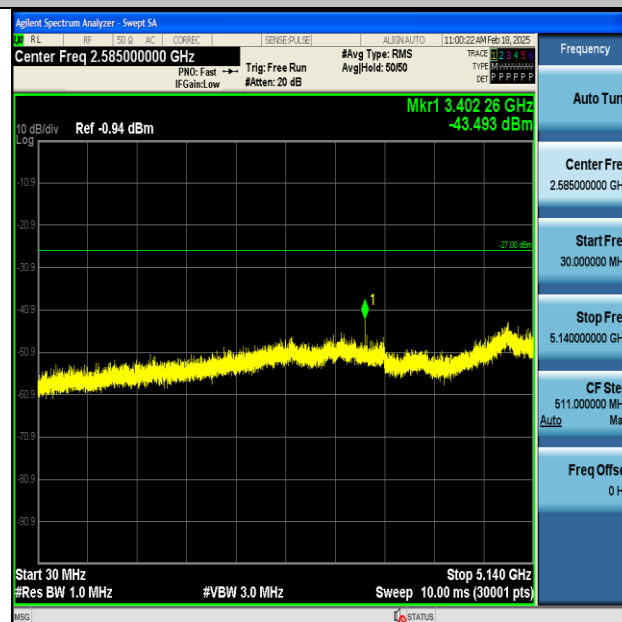
11N20SISO-Ant1-5180-5360~40000-PASS



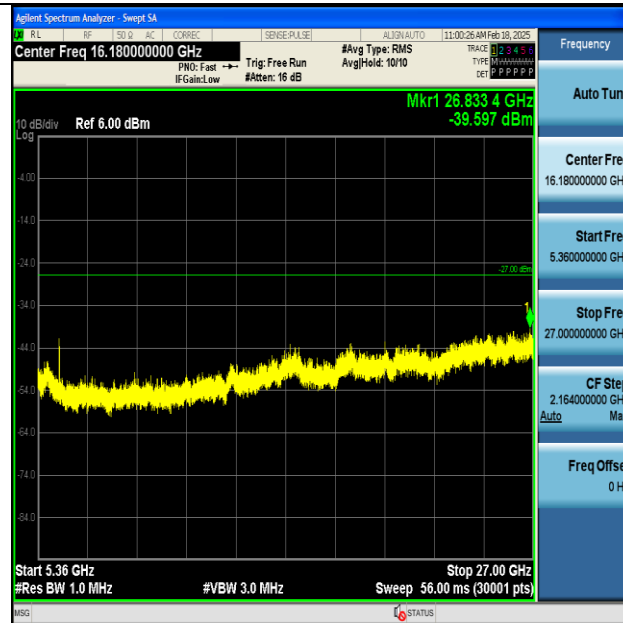
11N20SISO-Ant1-5200-30~5140-PASS



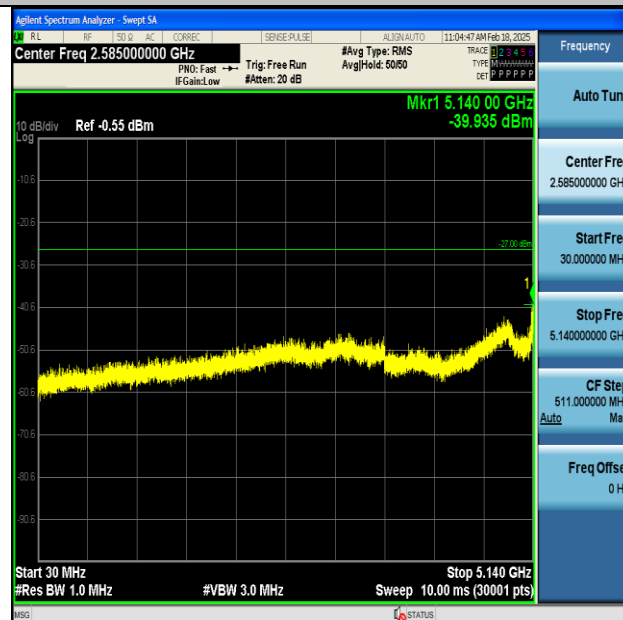
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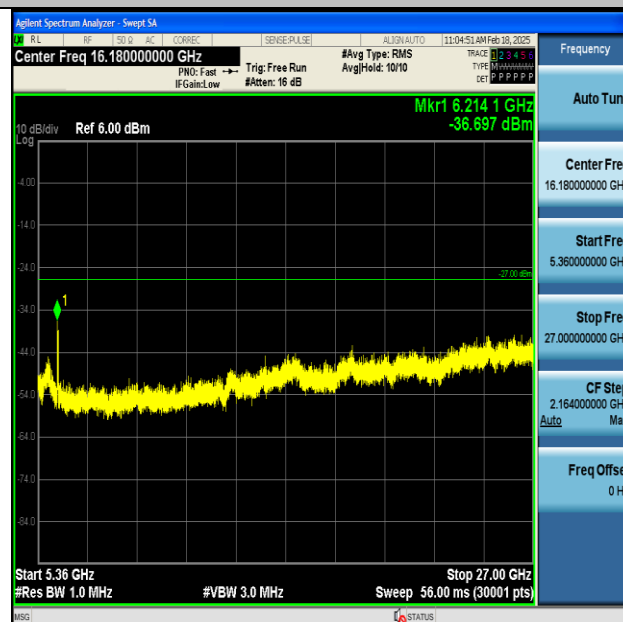
11N20SISO-Ant1-5240-30~5140-PASS



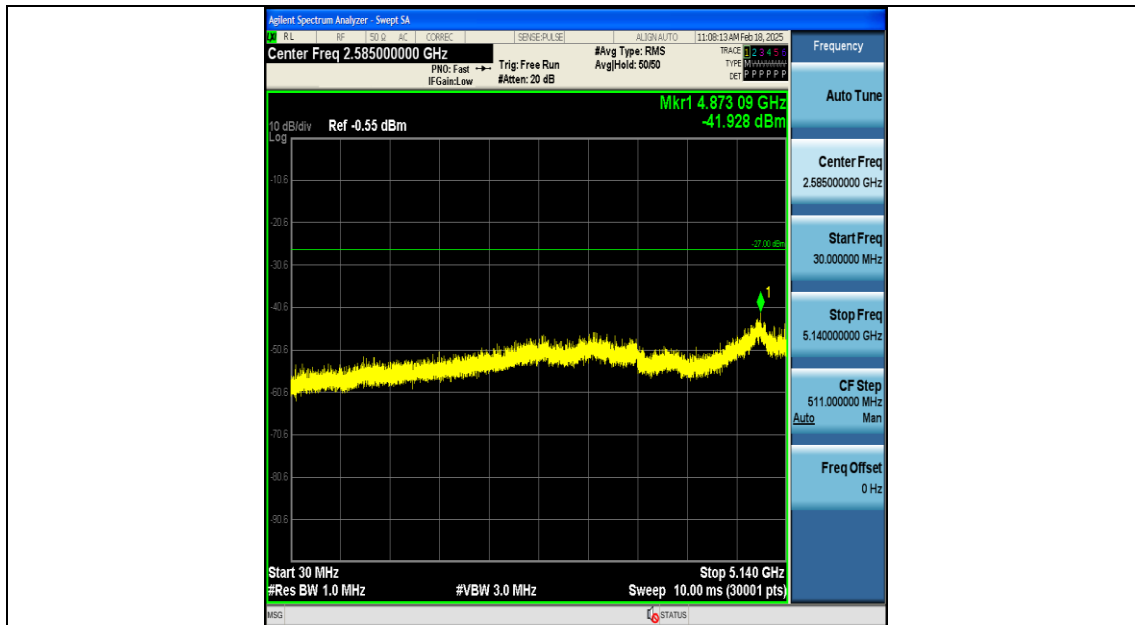
11N20SISO-Ant1-5240-5360~40000-PASS



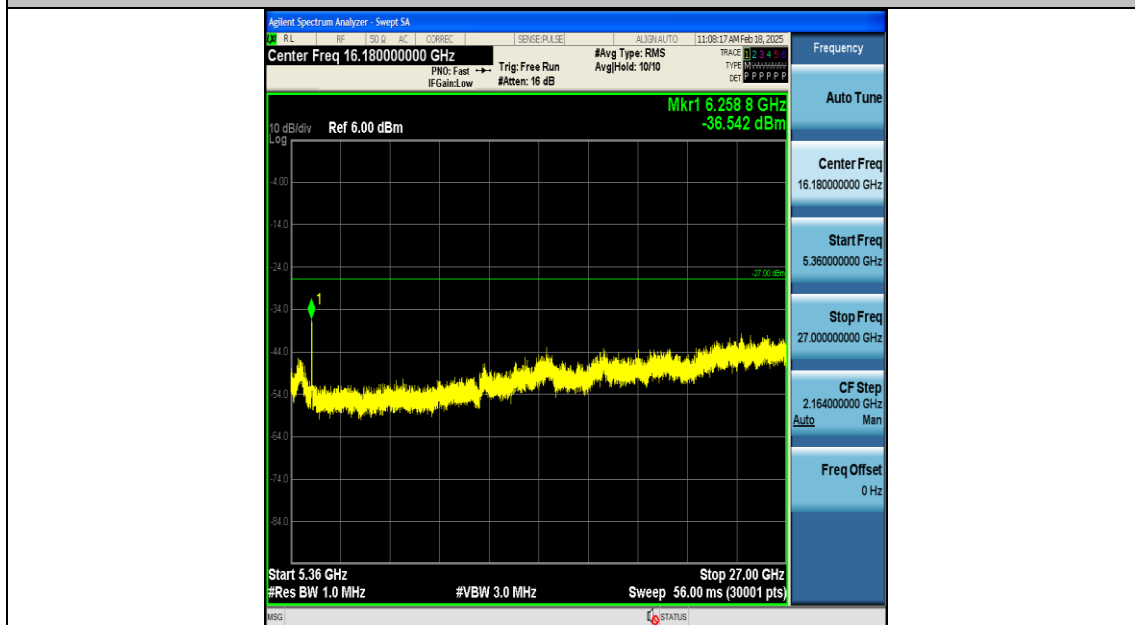
11N40SISO-Ant1-5190-30~5140-PASS



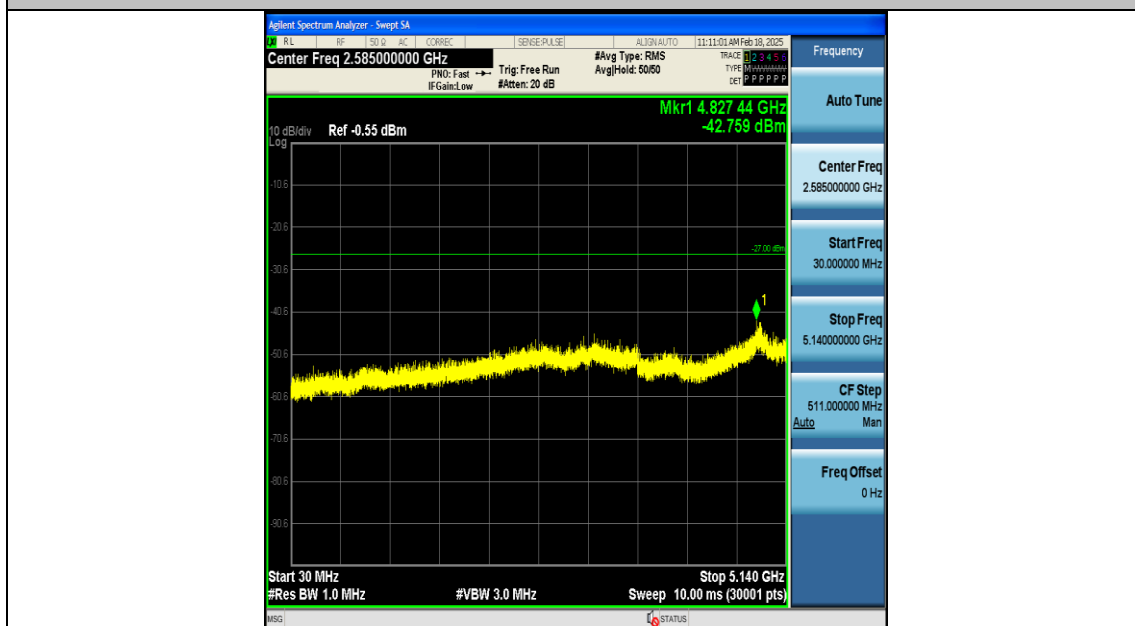
11N40SISO-Ant1-5190-5360~40000-PASS



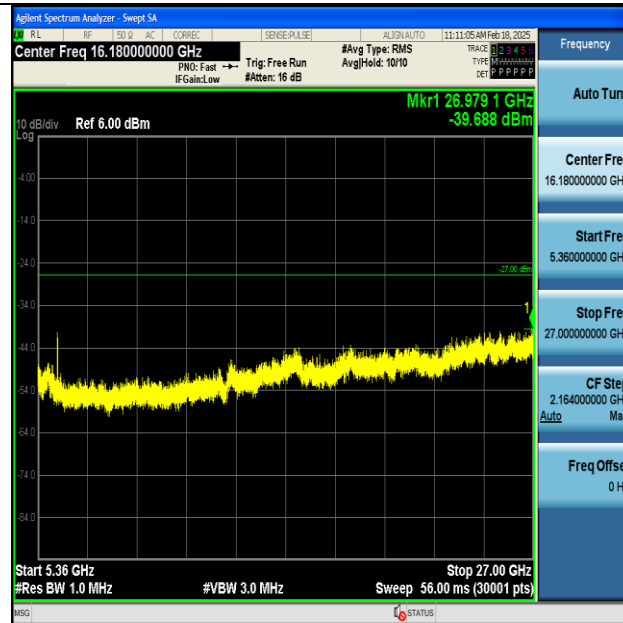
11N40SISO-Ant1-5230-30~5140-PASS



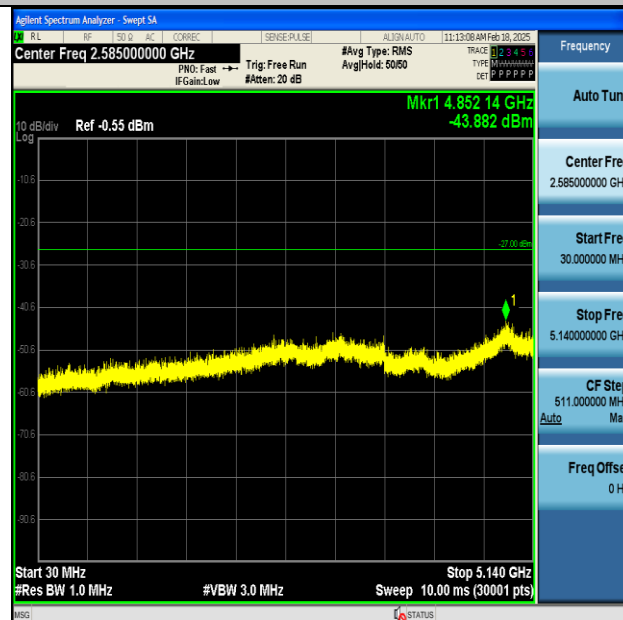
11N40SISO-Ant1-5230-360~40000-PASS



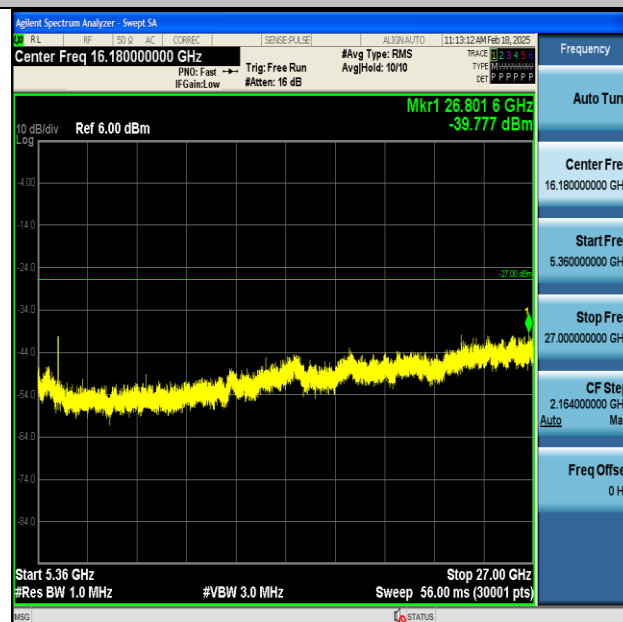
11AC20SISO-Ant1-5180-30~5140-PASS



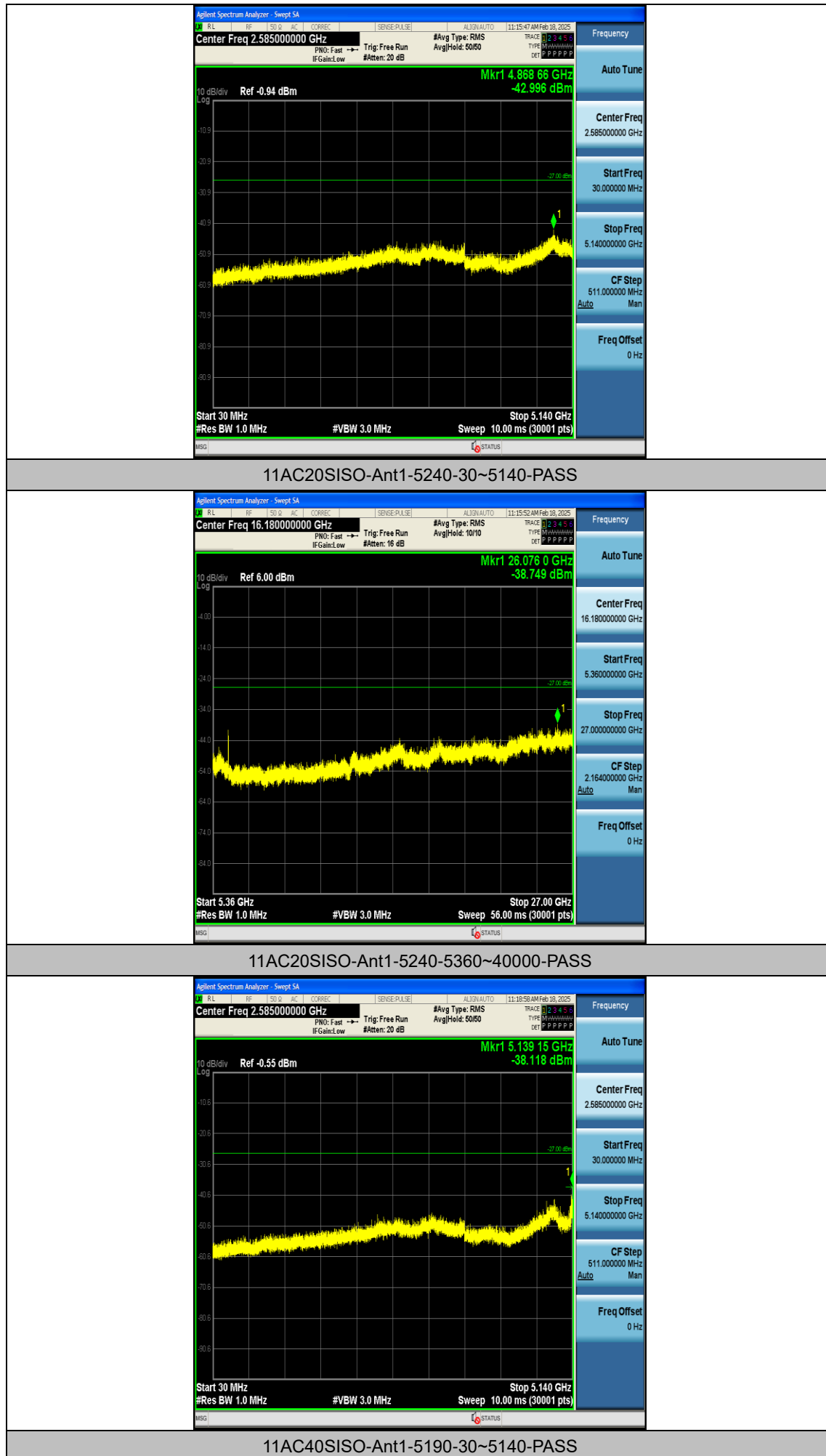
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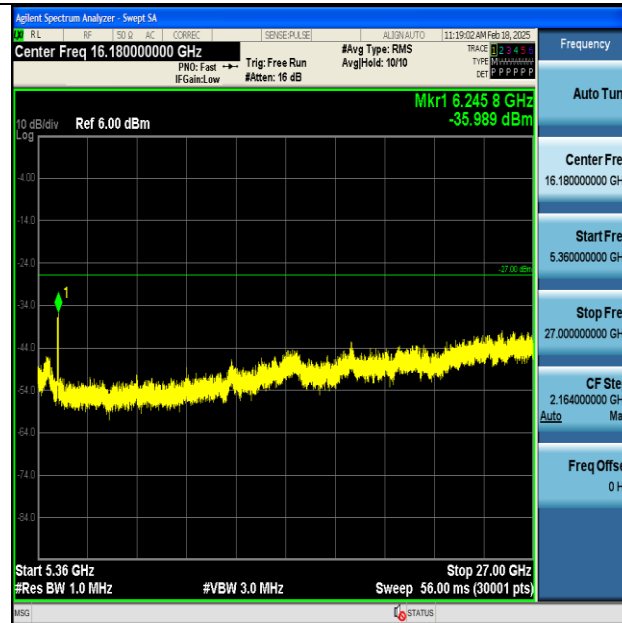


11AC20SISO-Ant1-5200-30~5140-PASS

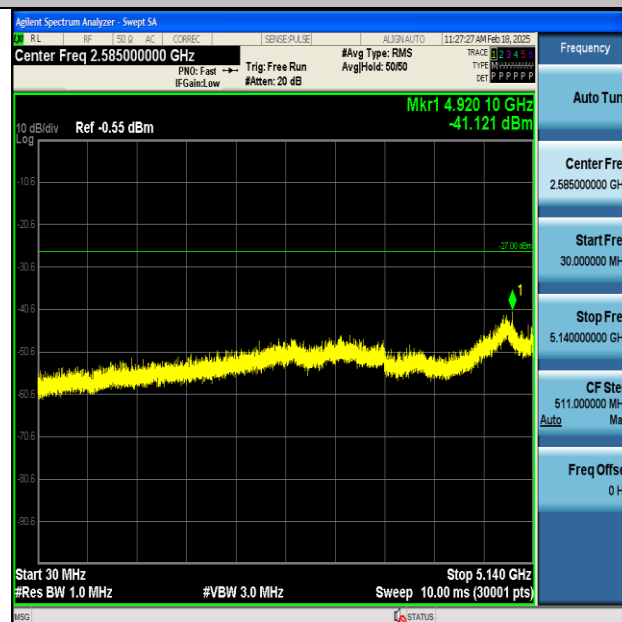


11AC20SISO-Ant1-5200-5360~40000-PASS

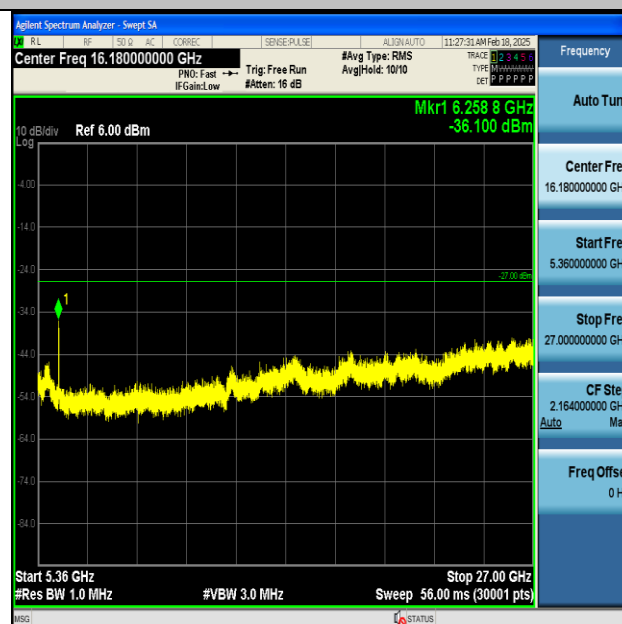




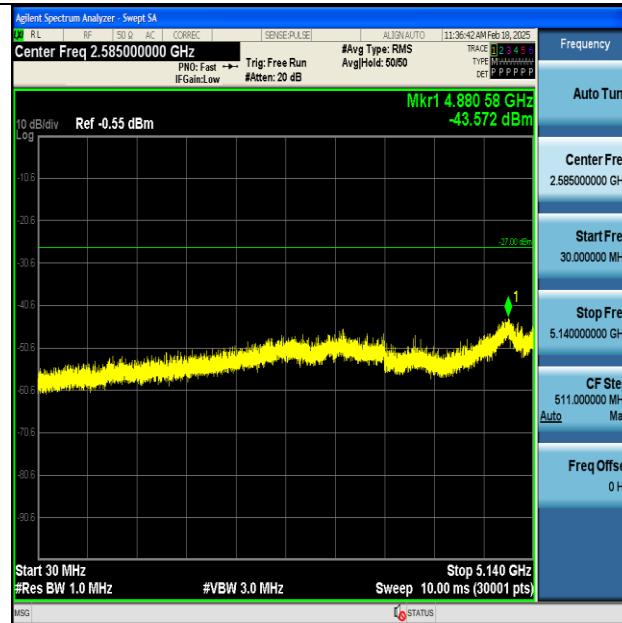
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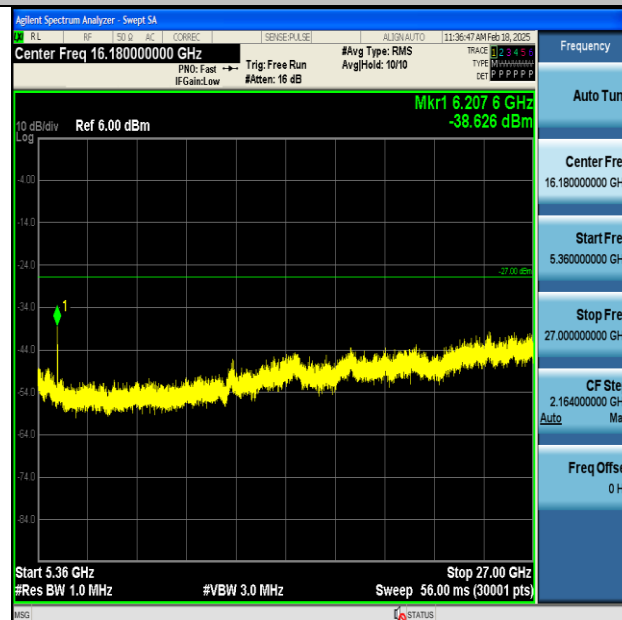
11AC40SISO-Ant1-5230-30~5140-PASS



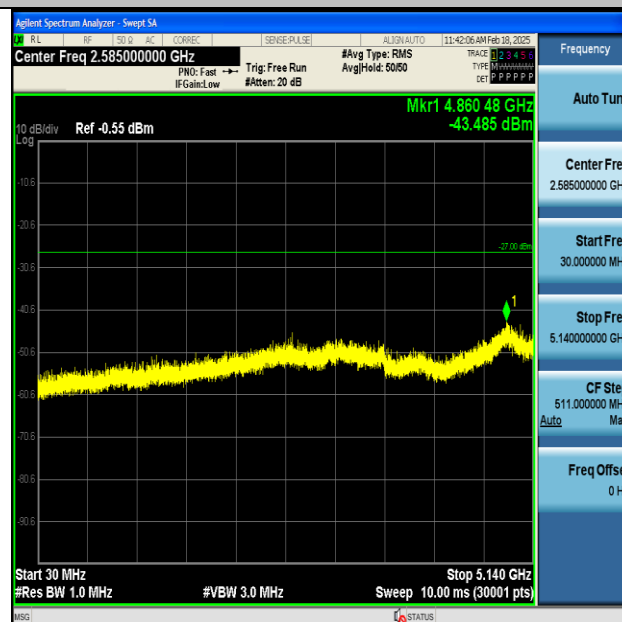
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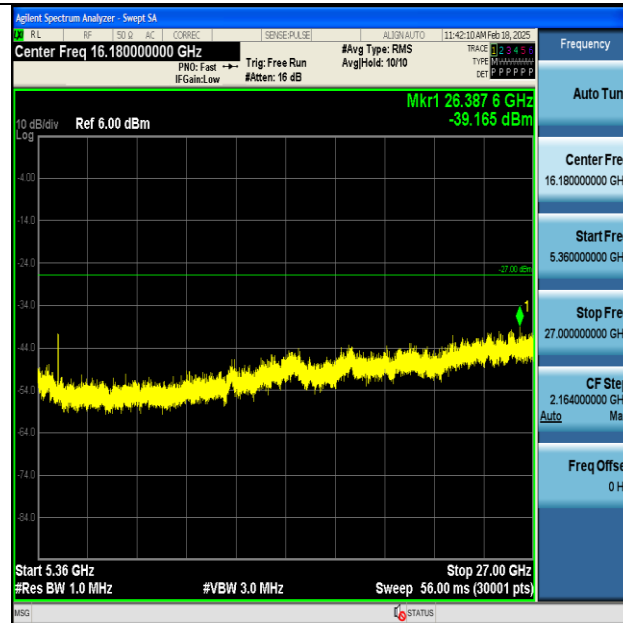
11AX20SISO-Ant1-5180-30~5140-PASS



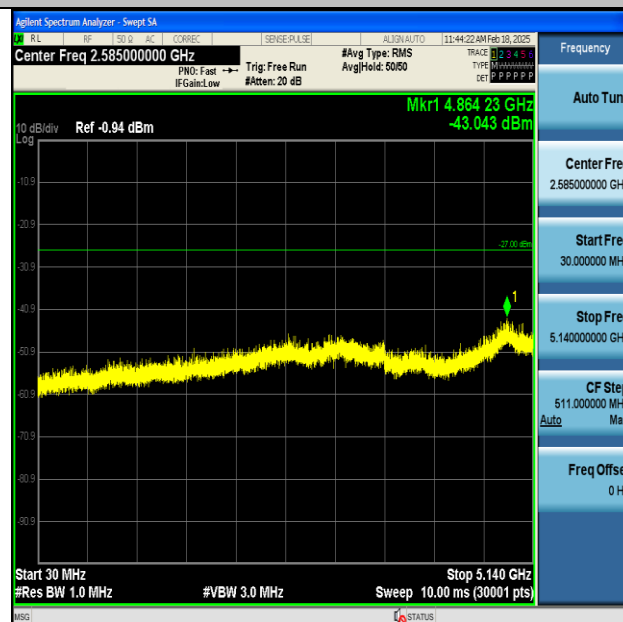
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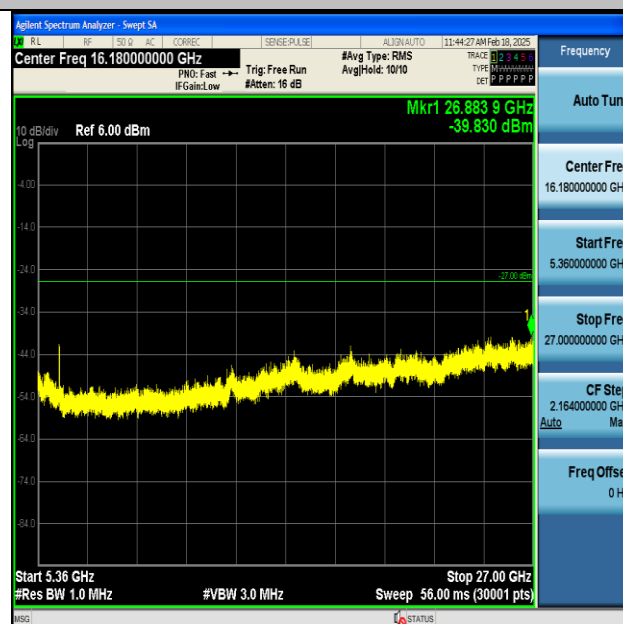
11AX20SISO-Ant1-5200-30~5140-PASS



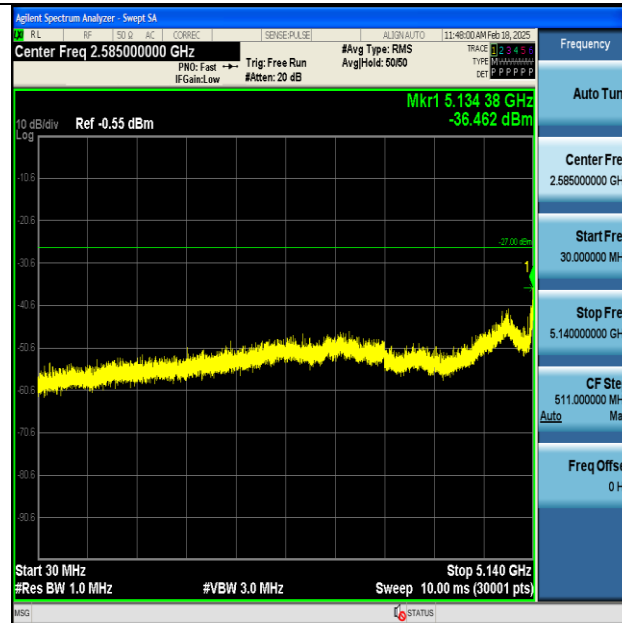
11AX20SISO-Ant1-5200-5360~40000-PASS



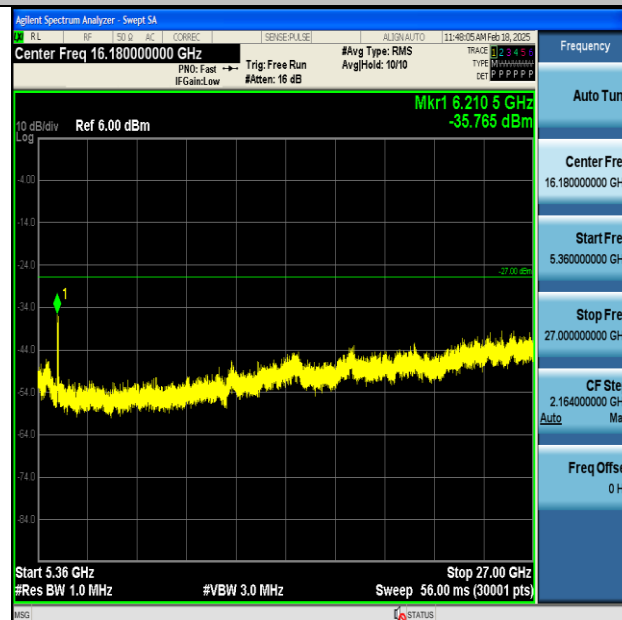
11AX20SISO-Ant1-5240-30~5140-PASS



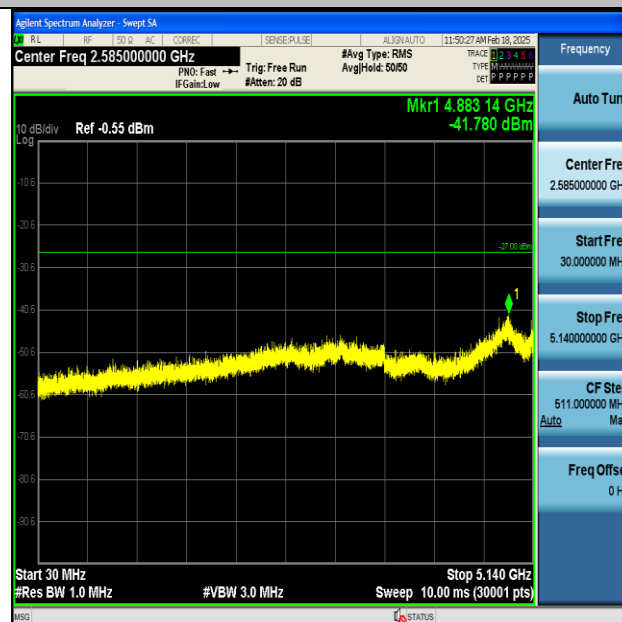
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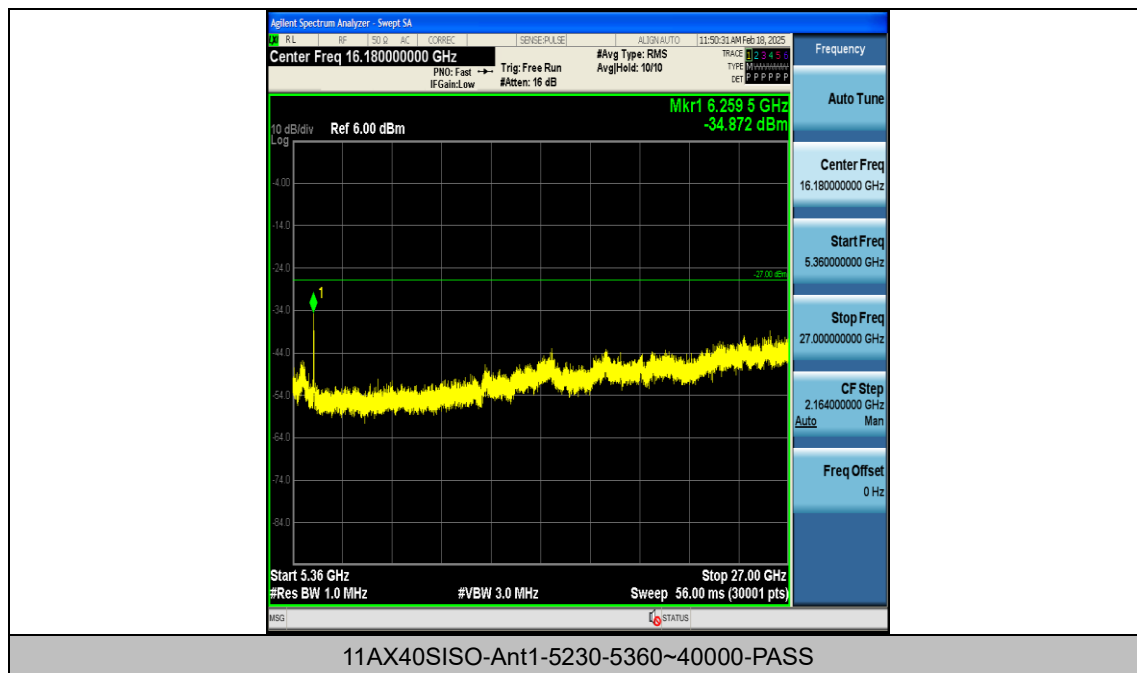
11AX40SISO-Ant1-5190-30~5140-PASS



11AX40SISO-Ant1-5190-5360~40000-PASS



11AX40SISO-Ant1-5230-30~5140-PASS

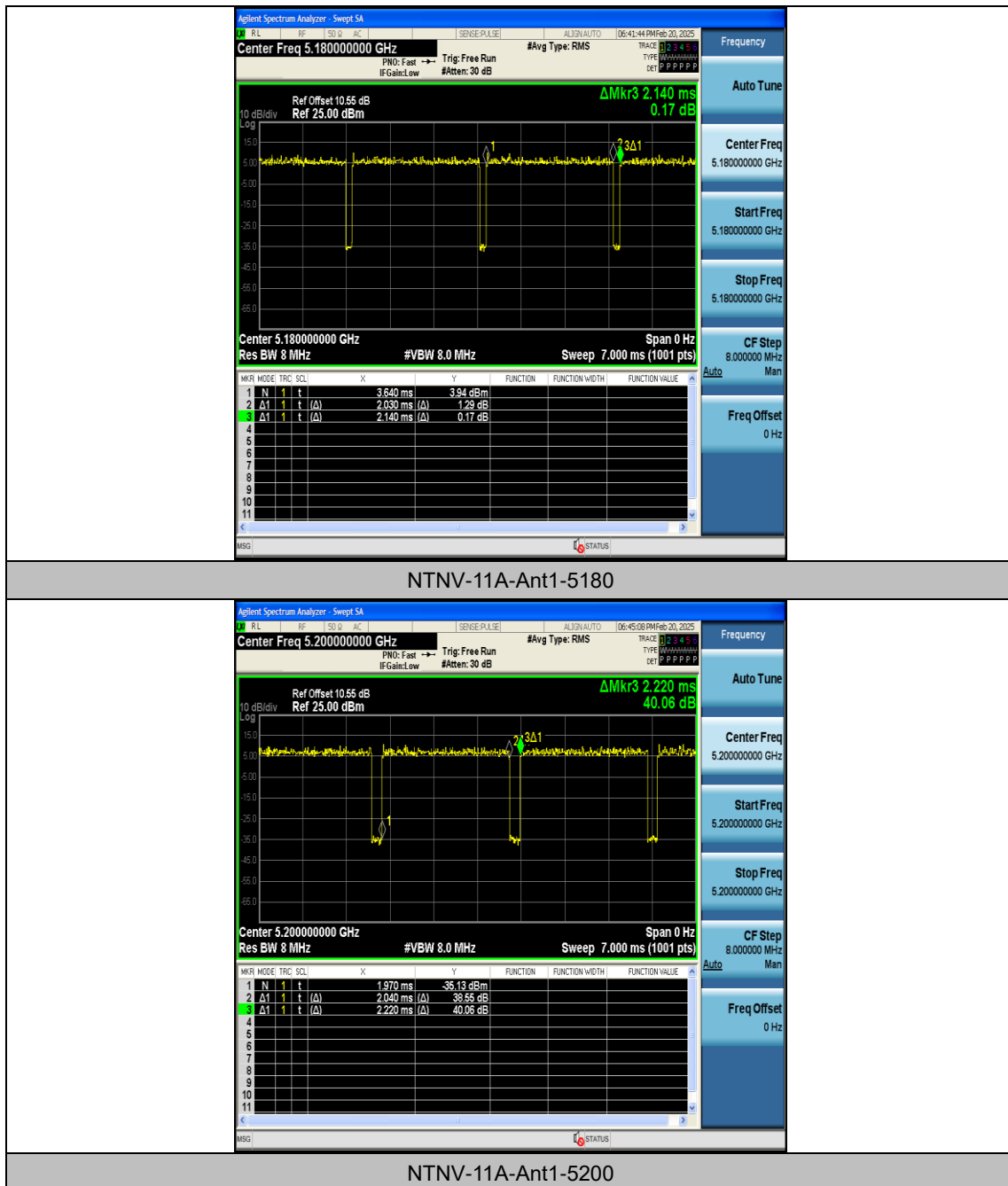


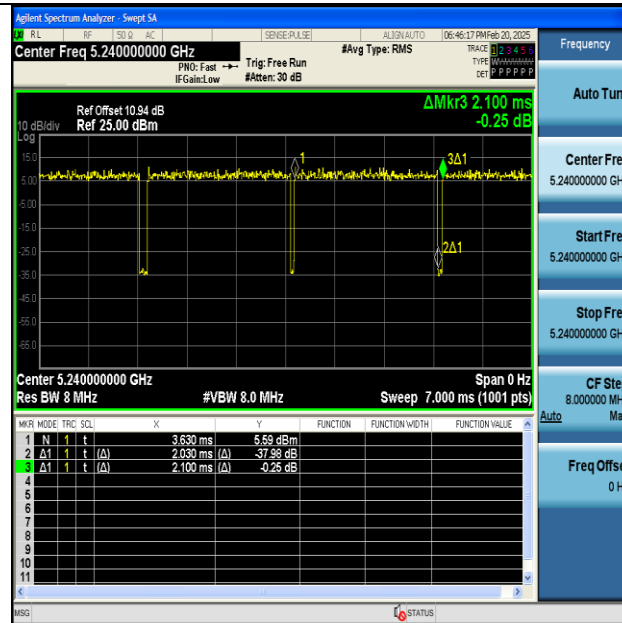
Appendix G: Duty Cycle

Test Result

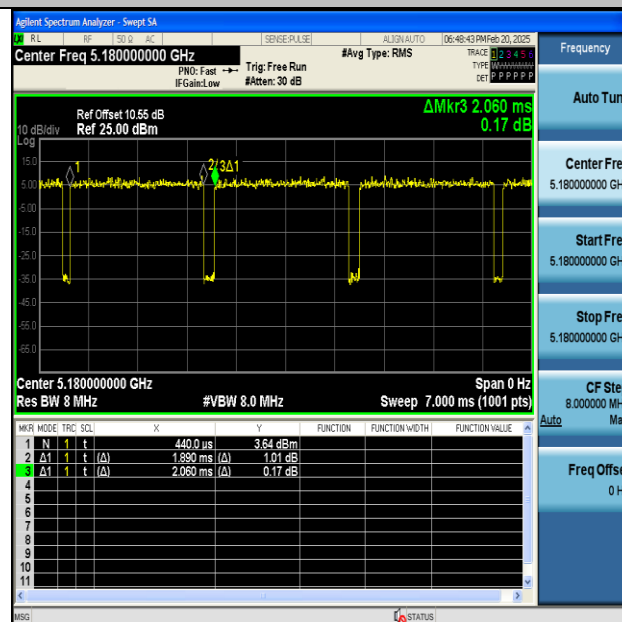
Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Dc. Factor [%]	1/T [kHz]
11A	Ant1	5180	2.03	2.14	94.86	0.23	0.49
11A	Ant1	5200	2.04	2.22	91.89	0.37	0.49
11A	Ant1	5240	2.03	2.10	96.67	0.15	0.49
11N20SISO	Ant1	5180	1.89	2.06	91.75	0.37	0.53
11N20SISO	Ant1	5200	1.89	2.02	93.56	0.29	0.53
11N20SISO	Ant1	5240	1.89	2.06	91.75	0.37	0.53
11N40SISO	Ant1	5190	0.93	1.01	92.08	0.36	1.08
11N40SISO	Ant1	5230	0.93	1.11	83.78	0.77	1.08
11AC20SISO	Ant1	5180	1.90	2.00	95.00	0.22	0.53
11AC20SISO	Ant1	5200	1.90	2.04	93.14	0.31	0.53
11AC20SISO	Ant1	5240	1.90	2.10	90.48	0.43	0.53
11AC40SISO	Ant1	5190	0.93	1.08	86.11	0.65	1.08
11AC40SISO	Ant1	5230	0.94	1.10	85.45	0.68	1.06
11AX20SISO	Ant1	5180	1.46	1.64	89.02	0.51	0.68
11AX20SISO	Ant1	5200	1.45	1.60	90.63	0.43	0.69
11AX20SISO	Ant1	5240	1.46	1.68	86.90	0.61	0.68
11AX40SISO	Ant1	5190	0.75	0.92	81.52	0.89	1.33
11AX40SISO	Ant1	5230	0.75	0.92	81.52	0.89	1.33

Test Graphs

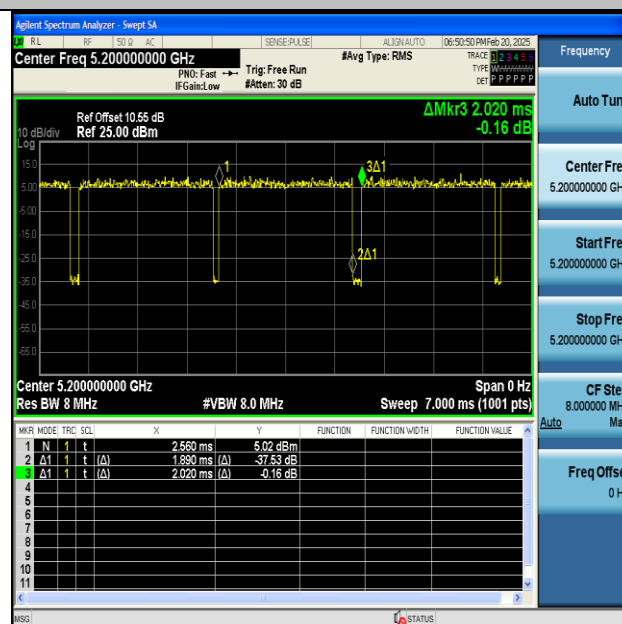




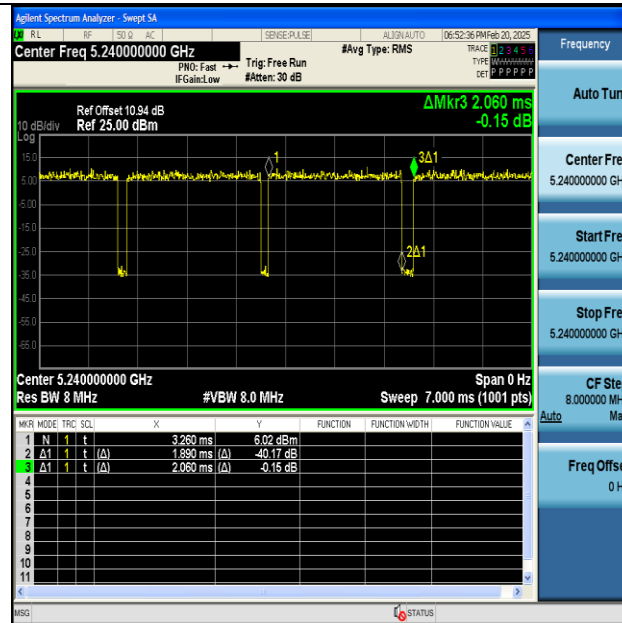
NTNV-11A-Ant1-5240



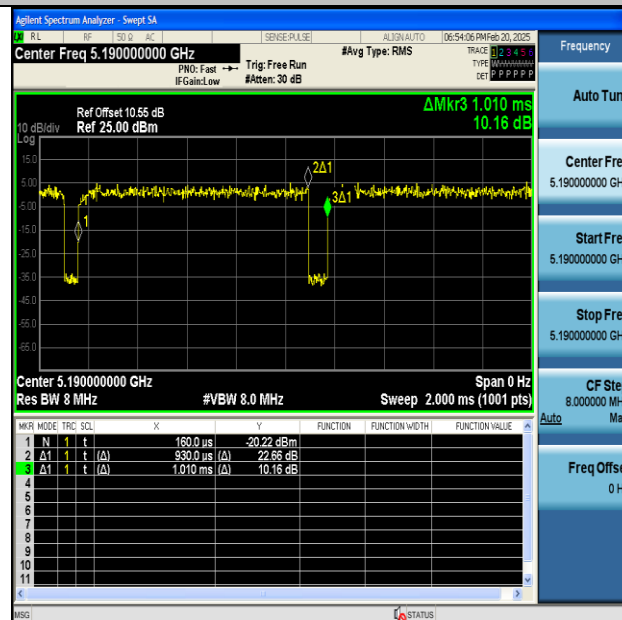
NTNV-11N20SISO-Ant1-5180



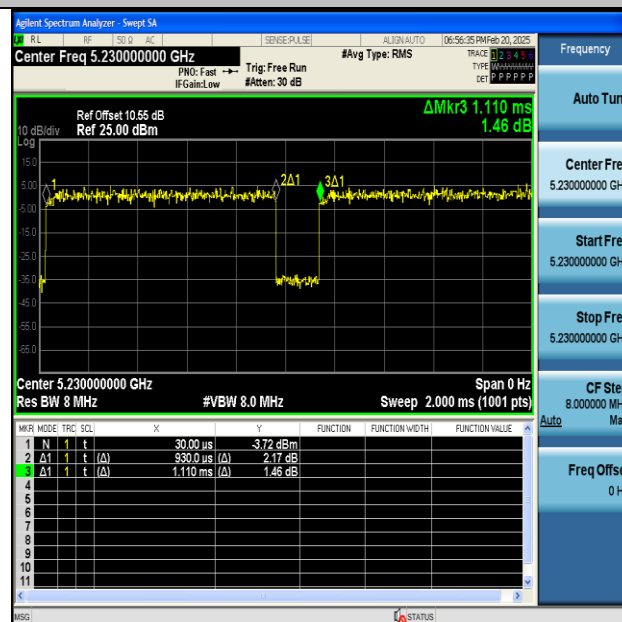
NTNV-11N20SISO-Ant1-5200



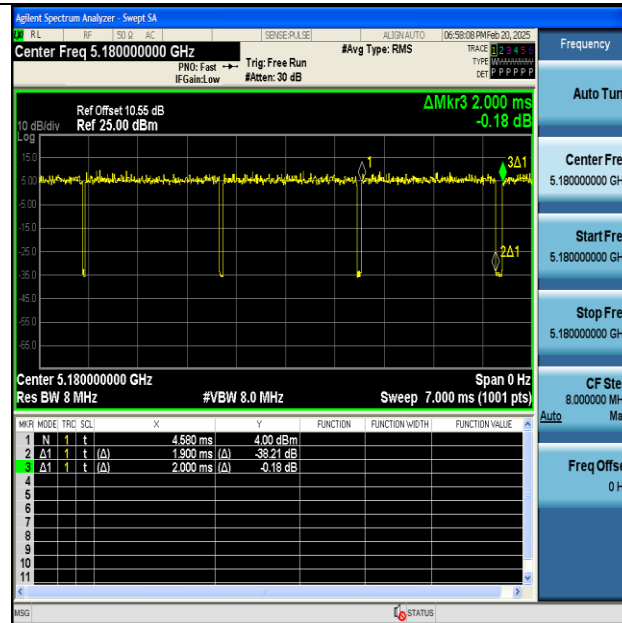
NTNV-11N20SISO-Ant1-5240



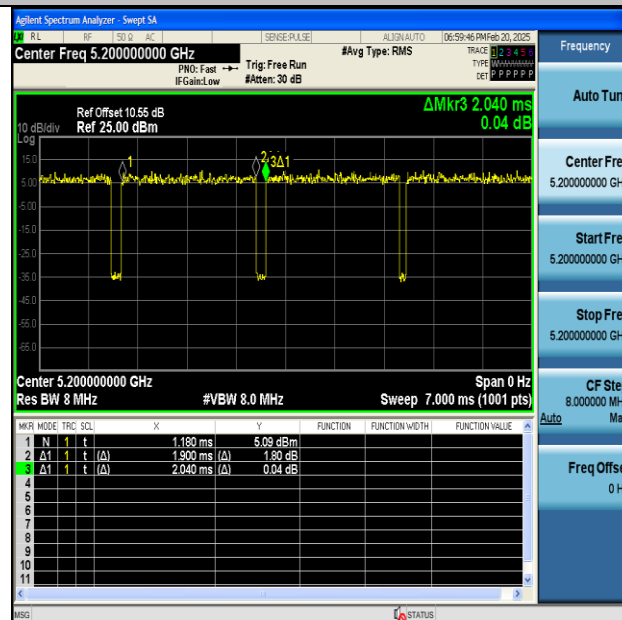
NTNV-11N40SISO-Ant1-5190



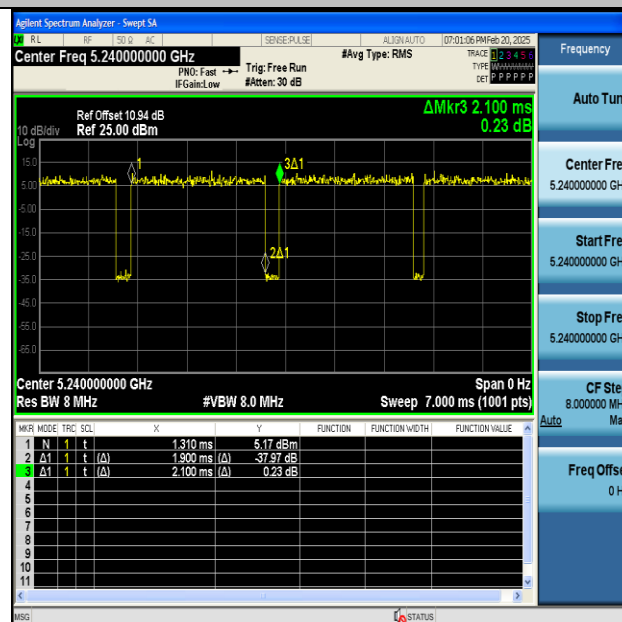
NTNV-11N40SISO-Ant1-5230



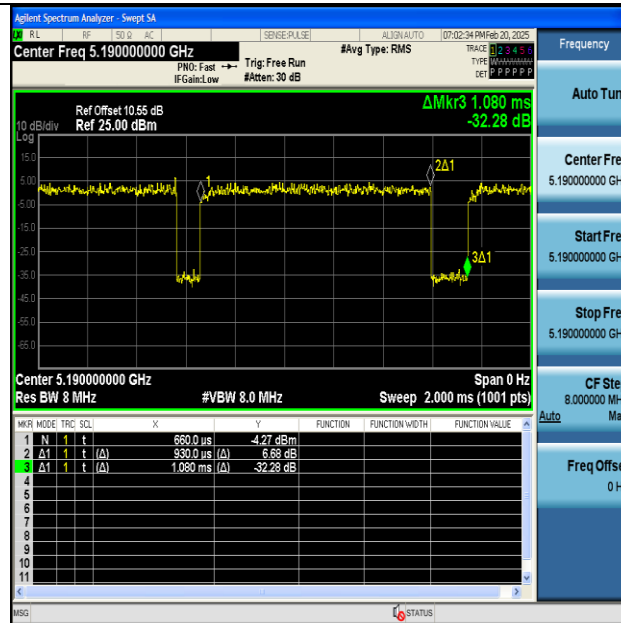
NTNV-11AC20SISO-Ant1-5180



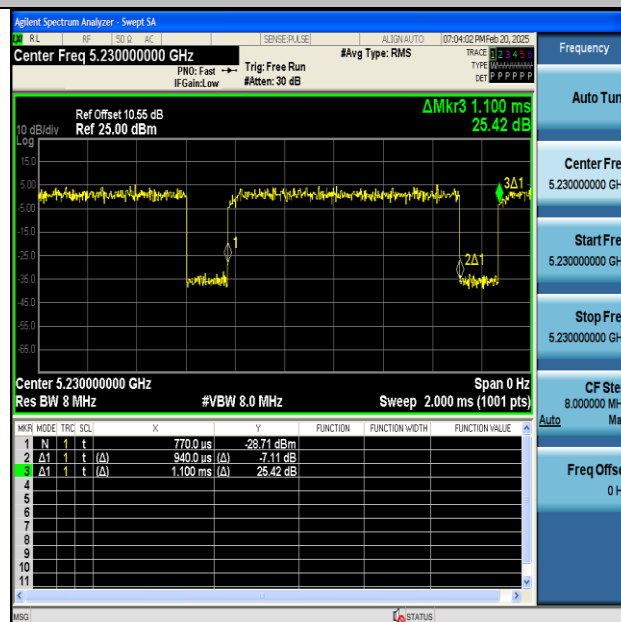
NTNV-11AC20SISO-Ant1-5200



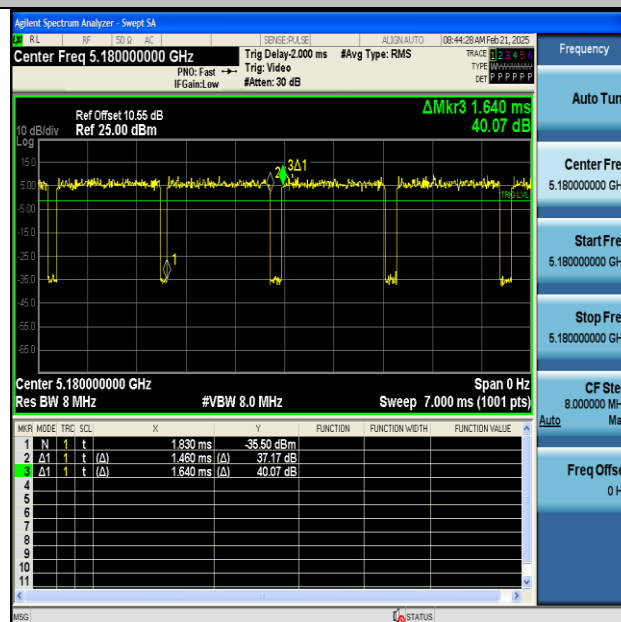
NTNV-11AC20SISO-Ant1-5240



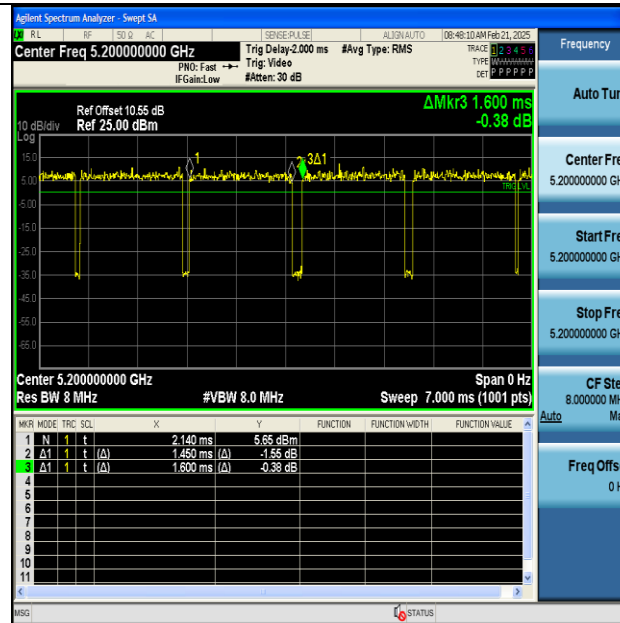
NTNV-11AC40SISO-Ant1-5190



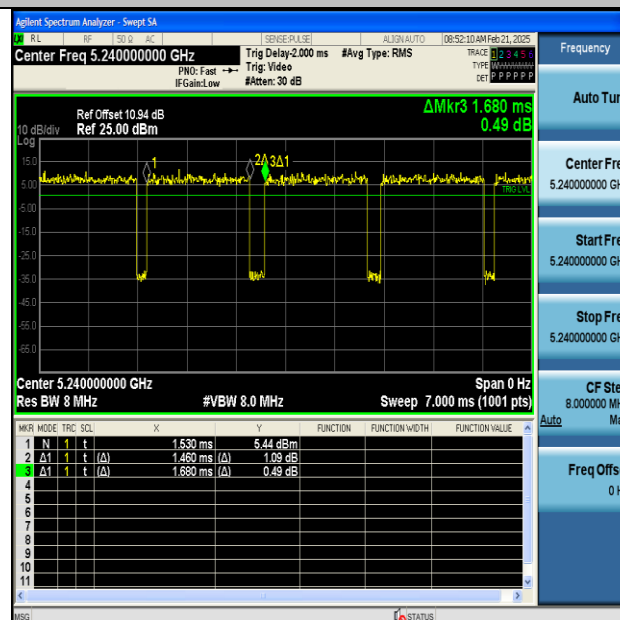
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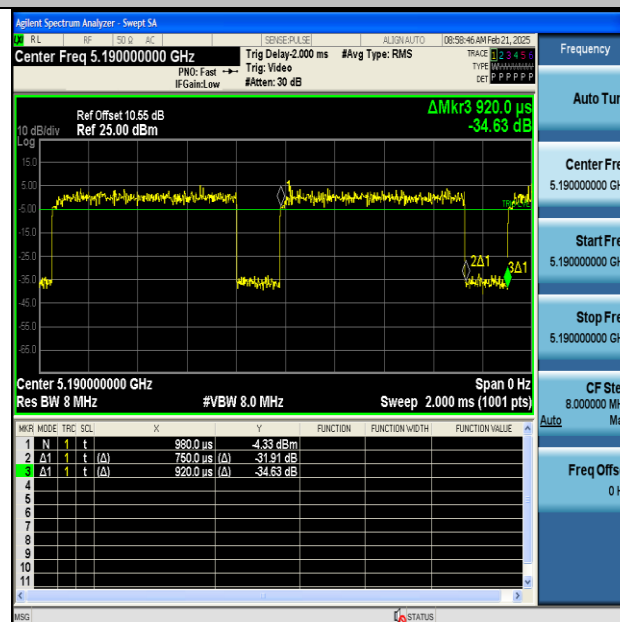
NTNV-11AX20SISO-Ant1-5180



NTNV-11AX20SISO-Ant1-5200



NTNV-11AX20SISO-Ant1-5240



NTNV-11AX40SISO-Ant1-5190

