

Appendix Test Data for RLAN(5.8G) (Conducted Measurement)

Product Name: Wanbo Projector

Trade Mark: wanbo

Test Model: T4

FCC ID:2A7PIT4

Environmental Conditions

Temperature:	25.5°C
Relative Humidity:	55%
ATM Pressure:	100.0 kPa
Test Engineer:	Anna Hu
Supervised by:	Hugo Chen
NOTE	N/A

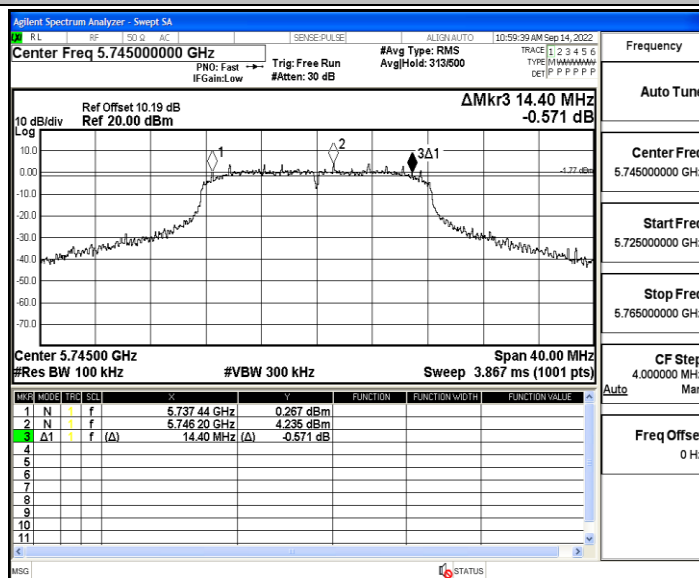
Appendix A: Min emission bandwidth

Test Result

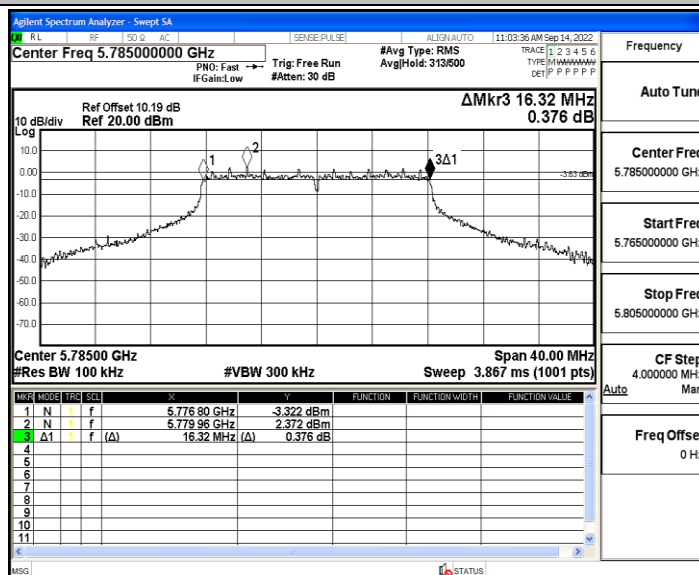
TestMode	Antenna	Channel	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	14.400	5737.440	5751.840	0.5	PASS
		5785	16.320	5776.800	5793.120	0.5	PASS
		5825	15.040	5817.480	5832.520	0.5	PASS
11N20SISO	Ant1	5745	15.080	5737.440	5752.520	0.5	PASS
		5785	15.080	5777.440	5792.520	0.5	PASS
		5825	15.080	5817.440	5832.520	0.5	PASS
11N40SISO	Ant1	5755	35.120	5737.400	5772.520	0.5	PASS
		5795	36.400	5776.760	5813.160	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	15.080	5817.440	5832.520	0.5	PASS
11AC40SISO	Ant1	5755	35.120	5737.400	5772.520	0.5	PASS
		5795	35.120	5777.400	5812.520	0.5	PASS

Test Graphs

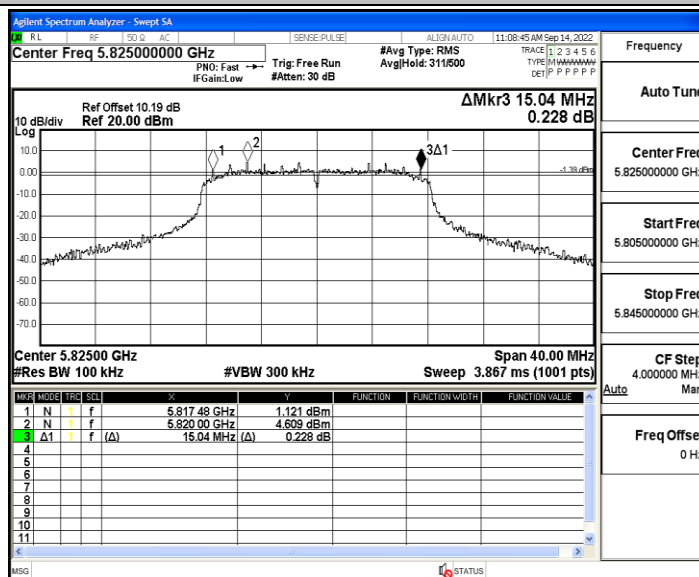
11A_Ant1_5745



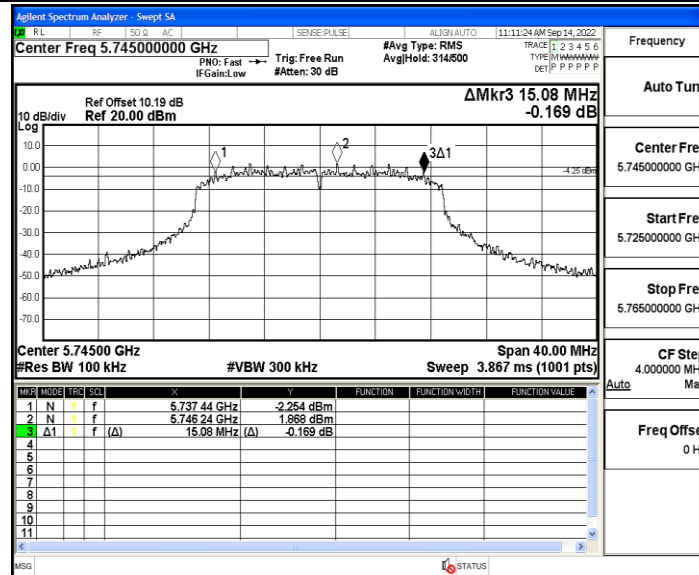
11A_Ant1_5785



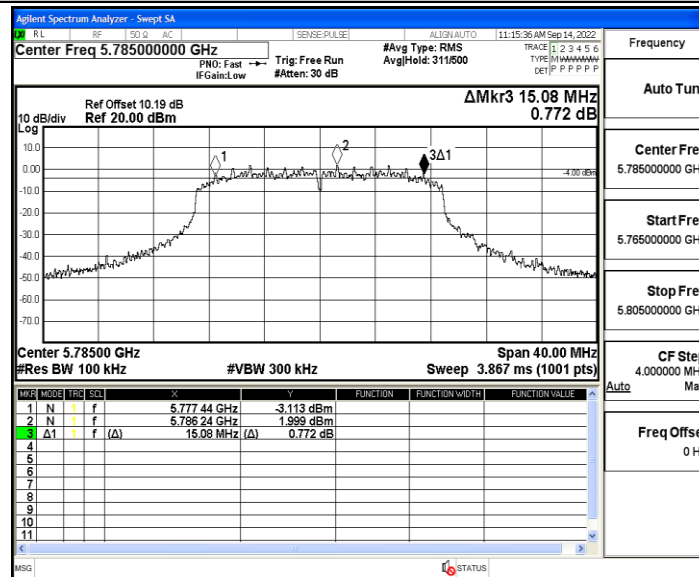
11A_Ant1_5825



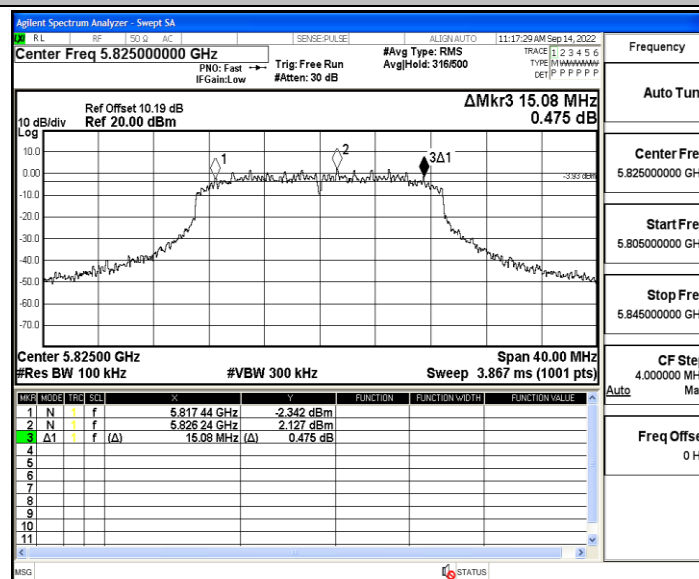
11N20SISO_Ant1_5745



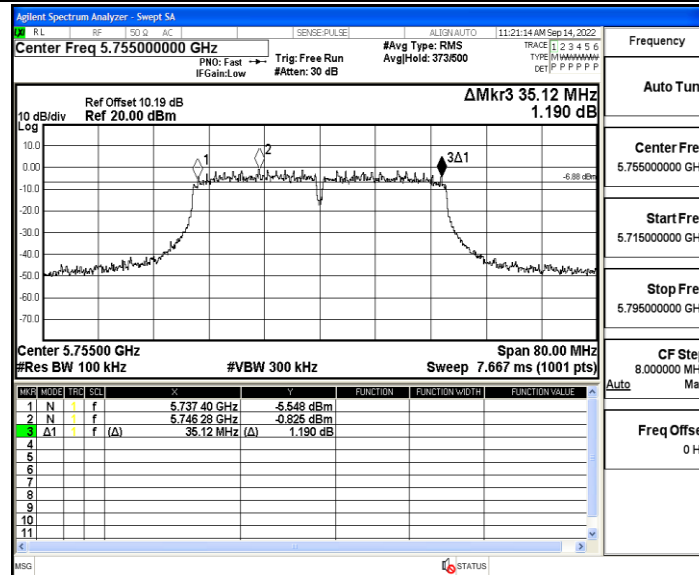
11N20SISO_Ant1_5785



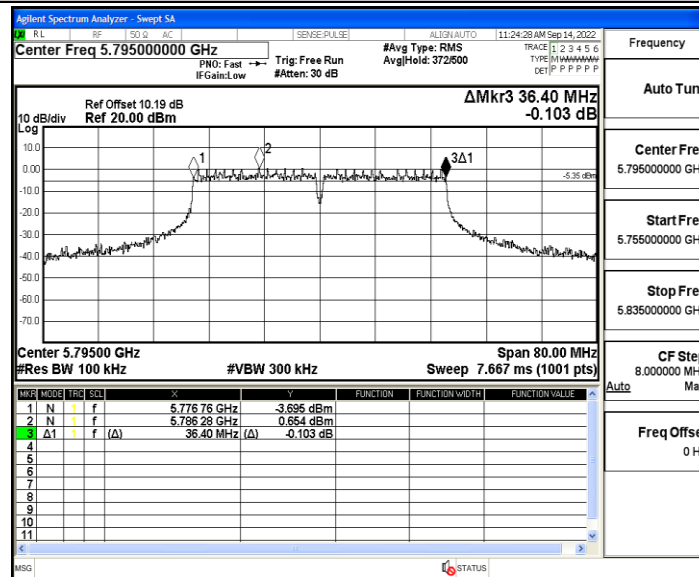
11N20SISO_Ant1_5825



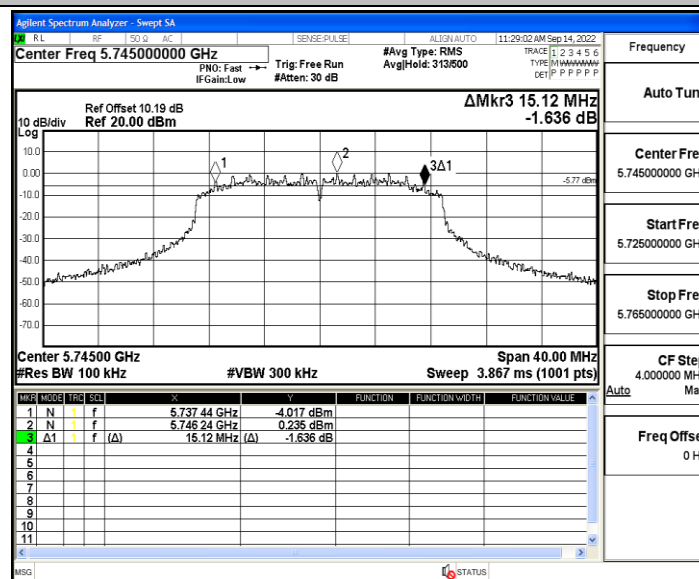
11N40SISO_Ant1_5755



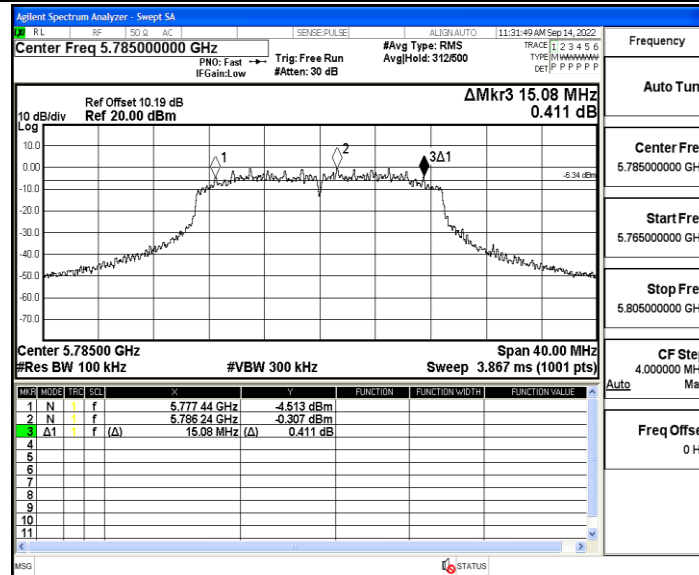
11N40SISO_Ant1_5795



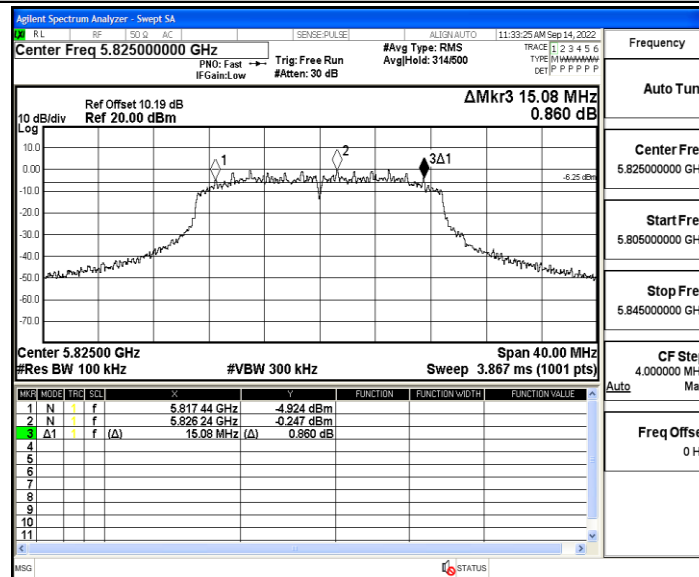
11AC20SISO_Ant1_5745



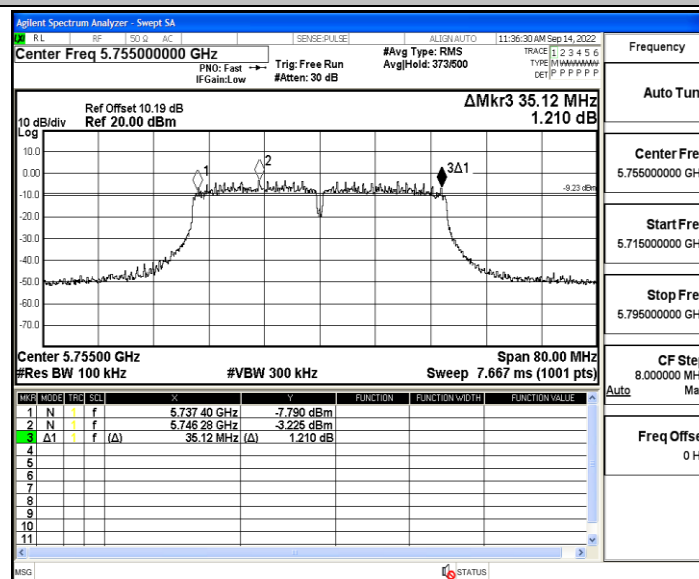
11AC20SISO_Ant1_5785



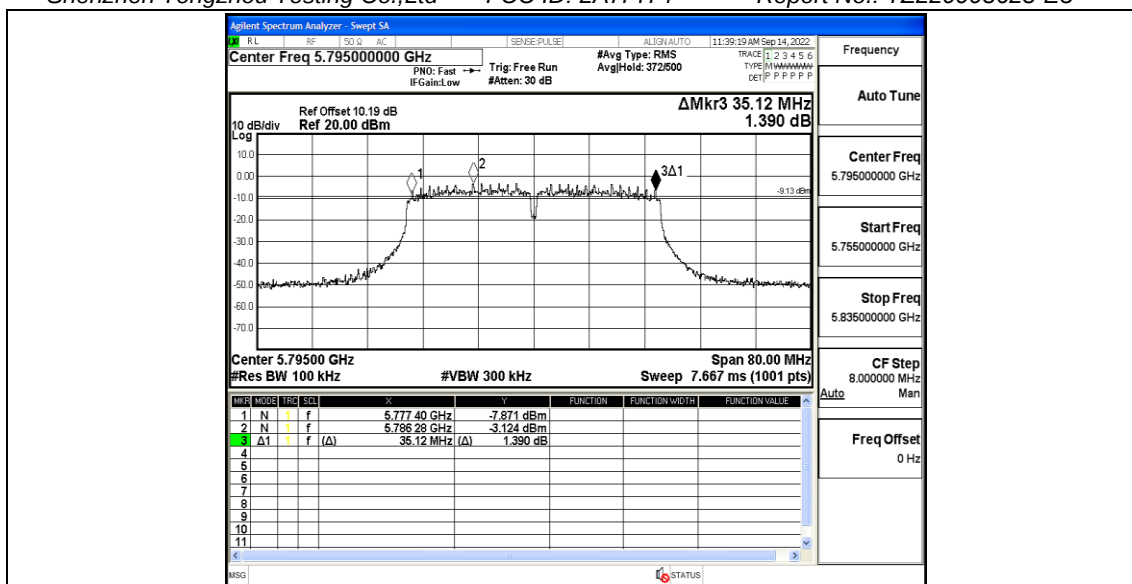
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



Appendix B: Maximum conducted output power

Test Result

TestMode	Antenna	Channel	Result[dBm]	Limit[dBm]	Verdict
11A	Ant1	5745	14.83	≤30.00	PASS
		5785	13.50	≤30.00	PASS
		5825	14.93	≤30.00	PASS
11N20SISO	Ant1	5745	12.63	≤30.00	PASS
		5785	13.01	≤30.00	PASS
		5825	12.99	≤30.00	PASS
11N40SISO	Ant1	5755	13.67	≤30.00	PASS
		5795	15.10	≤30.00	PASS
11AC20SISO	Ant1	5745	11.49	≤30.00	PASS
		5785	11.11	≤30.00	PASS
		5825	10.54	≤30.00	PASS
11AC40SISO	Ant1	5755	12.78	≤30.00	PASS
		5795	11.74	≤30.00	PASS

Note: The Duty Cycle Factor is compensated in the test result.

Appendix C: Maximum power spectral density

Test Result

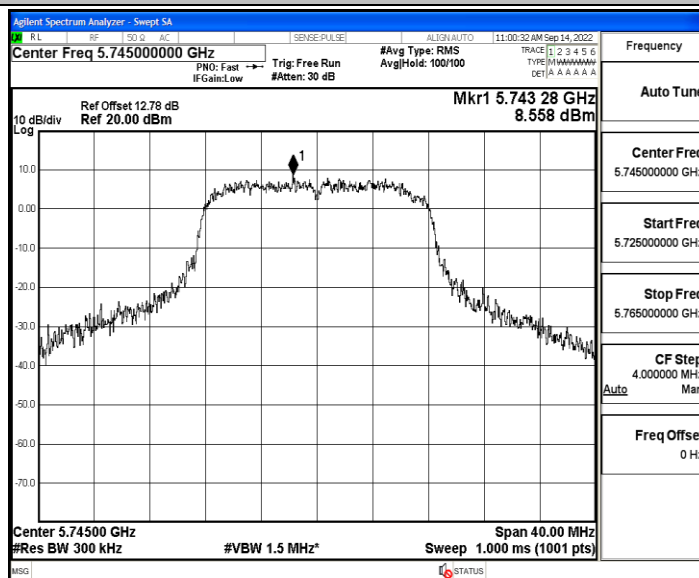
TestMode	Antenna	Channel	Result [dBm/MHz]	Limit[dBm/MHz]	Verdict
11A	Ant1	5745	8.56	≤30.00	PASS
		5785	6.86	≤30.00	PASS
		5825	8.36	≤30.00	PASS
11N20SISO	Ant1	5745	7.93	≤30.00	PASS
		5785	7.92	≤30.00	PASS
		5825	7.94	≤30.00	PASS
11N40SISO	Ant1	5755	6.18	≤30.00	PASS
		5795	7.66	≤30.00	PASS
11AC20SISO	Ant1	5745	6.47	≤30.00	PASS
		5785	6.98	≤30.00	PASS
		5825	6	≤30.00	PASS
11AC40SISO	Ant1	5755	5.64	≤30.00	PASS
		5795	4.74	≤30.00	PASS

Note: 1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

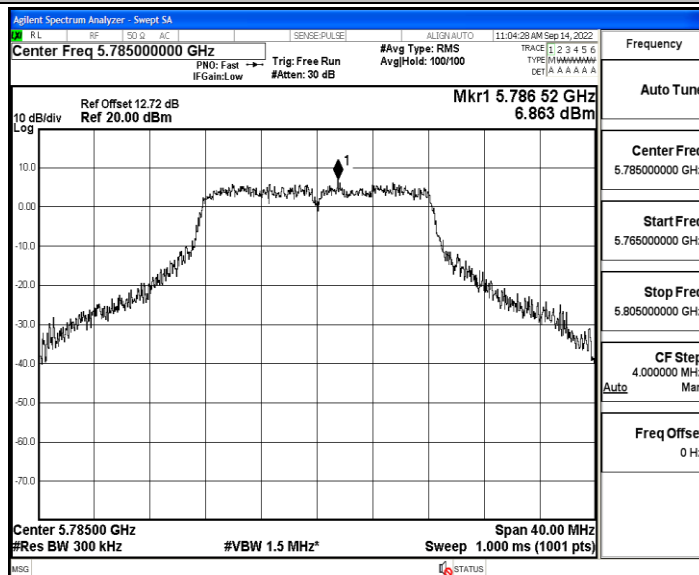
2.The Duty Cycle Factor and RBW Factor is compensated in the graph.

Test Graphs

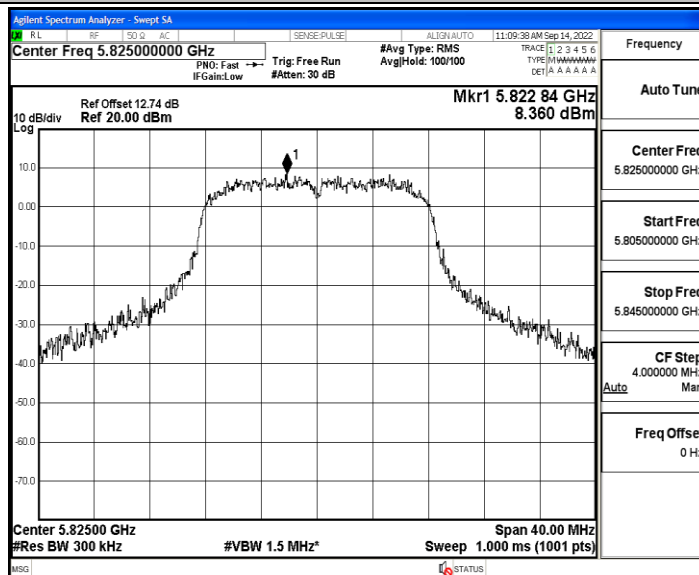
11A_Ant1_5745



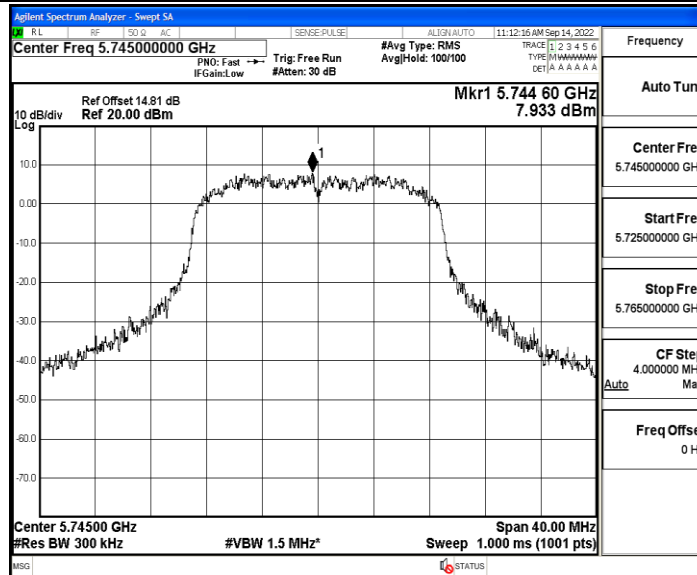
11A_Ant1_5785



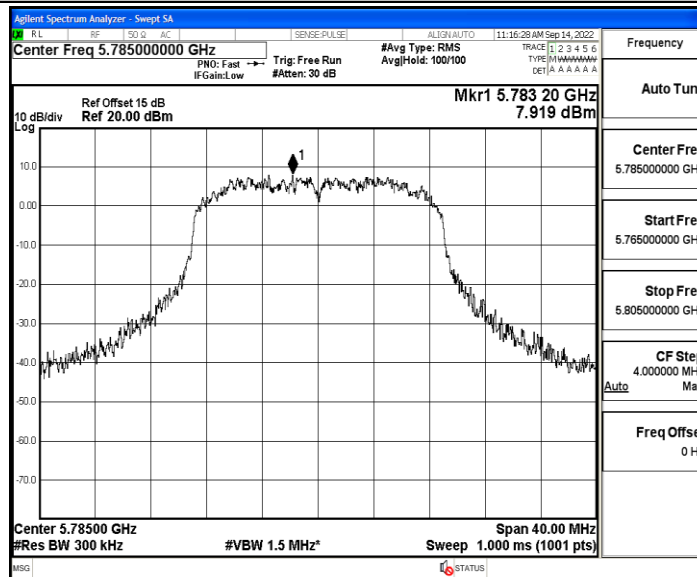
11A_Ant1_5825



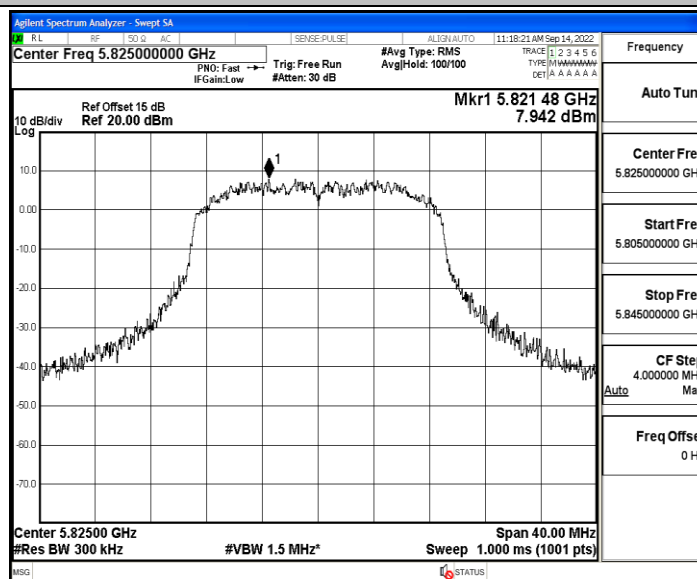
11N20SISO_Ant1_5745



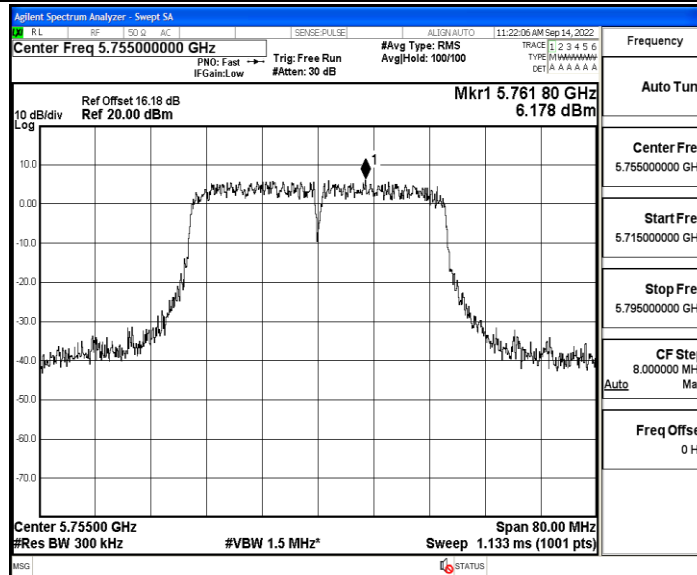
11N20SISO_Ant1_5785



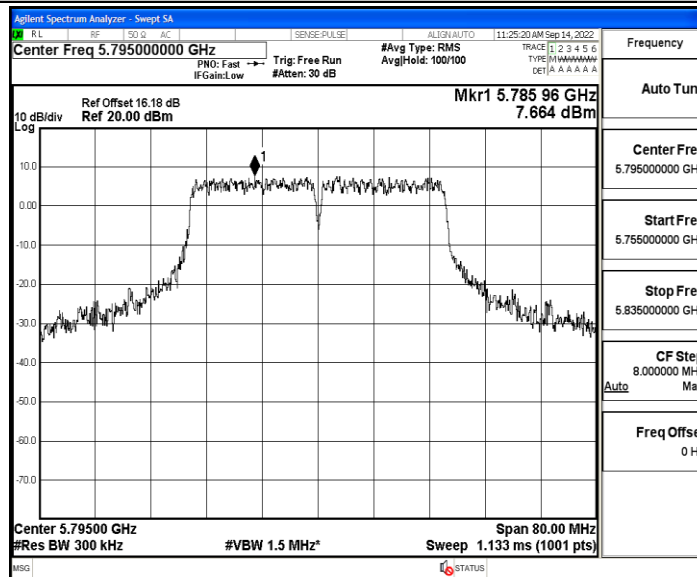
11N20SISO_Ant1_5825



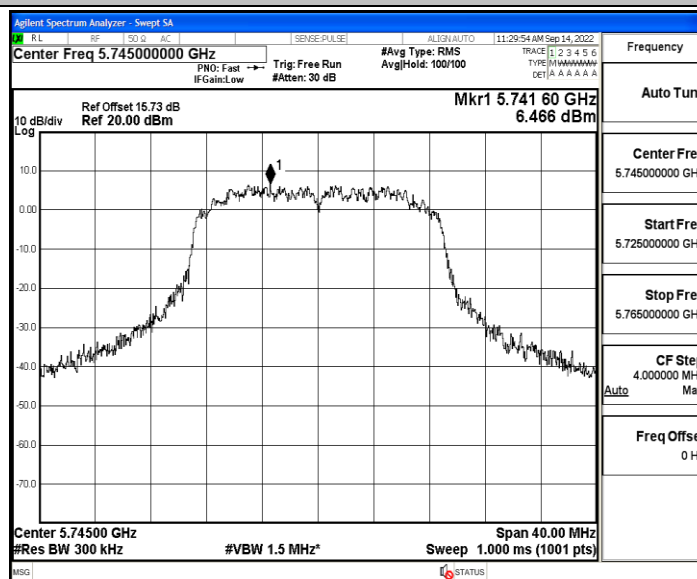
11N40SISO_Ant1_5755



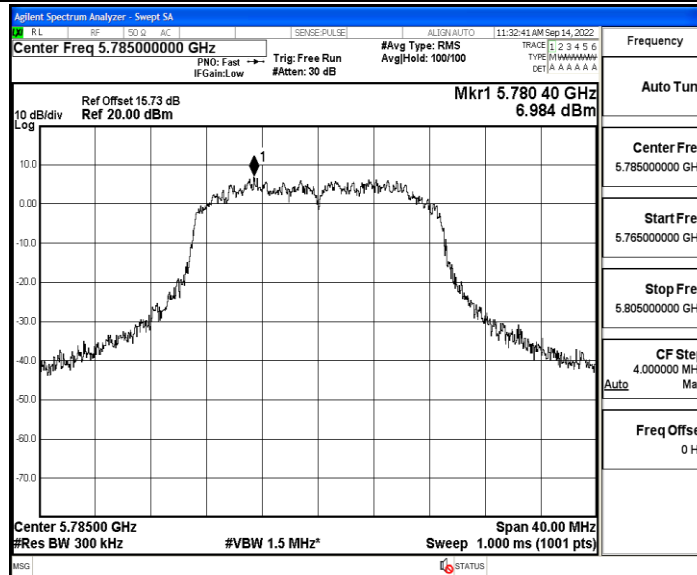
11N40SISO_Ant1_5795



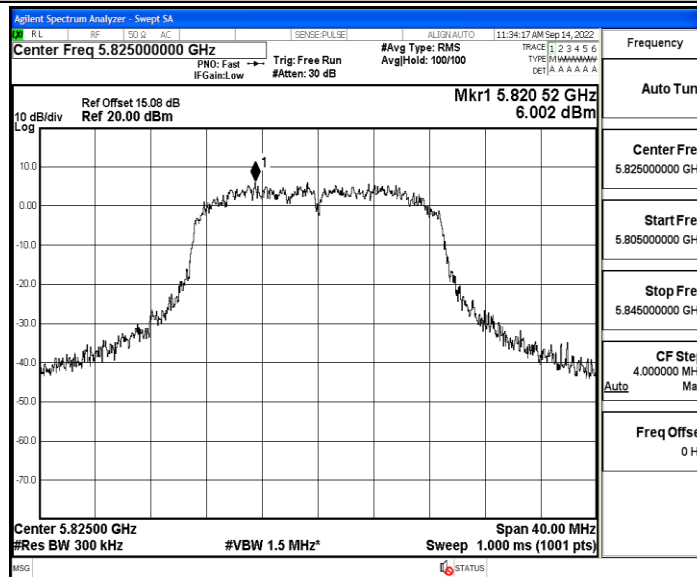
11AC20SISO_Ant1_5745



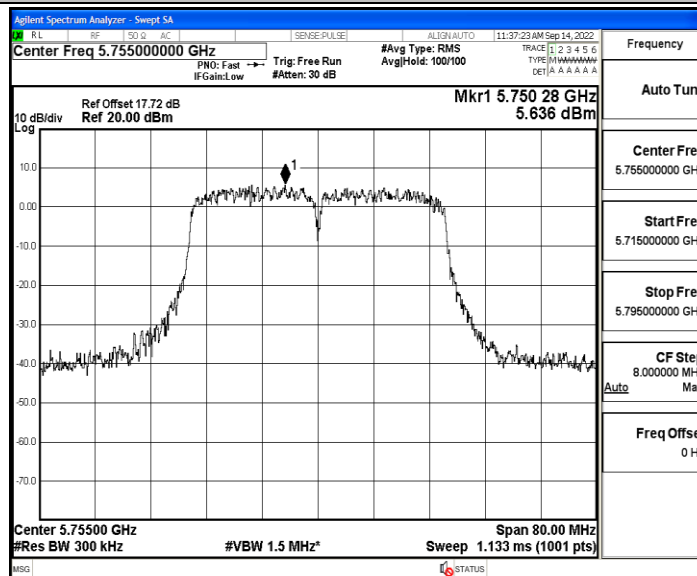
11AC20SISO_Ant1_5785



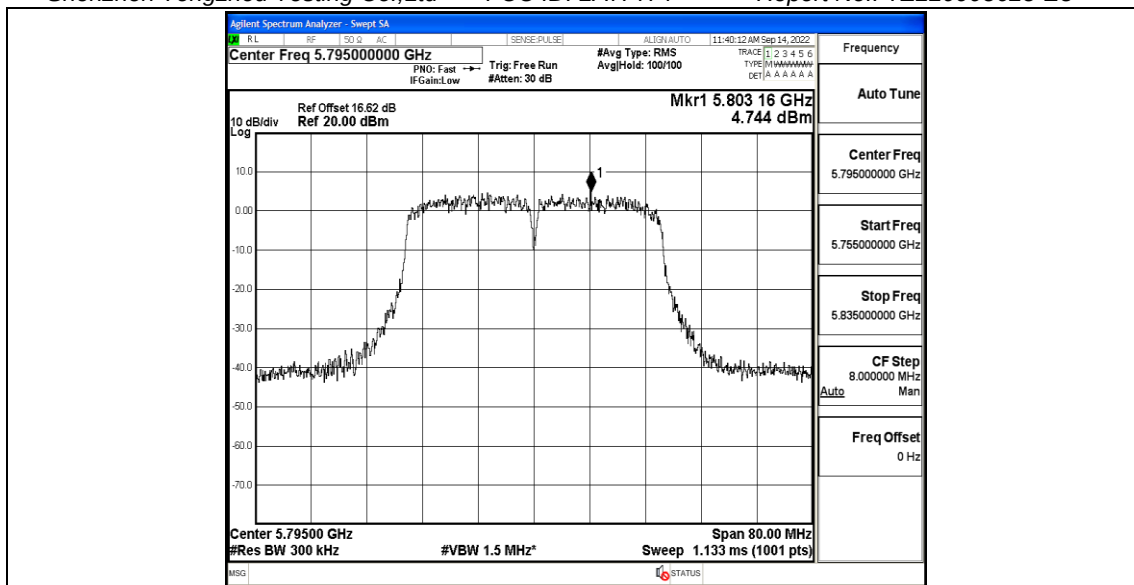
11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795



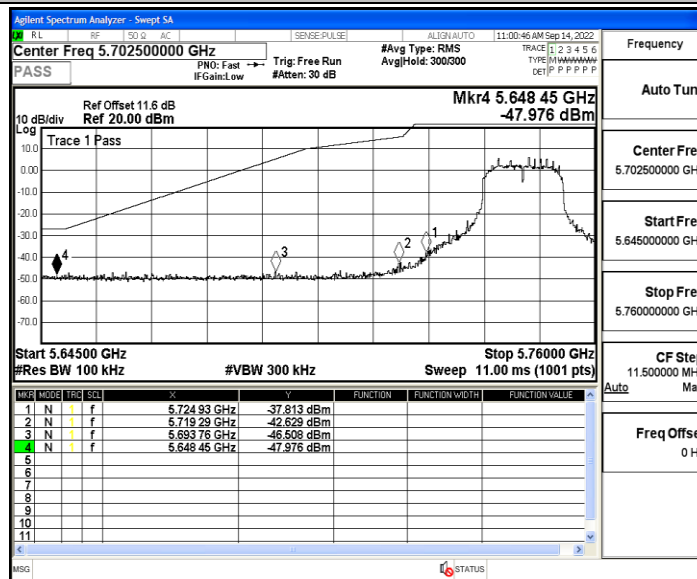
Appendix D: Band edge measurements

Test Result

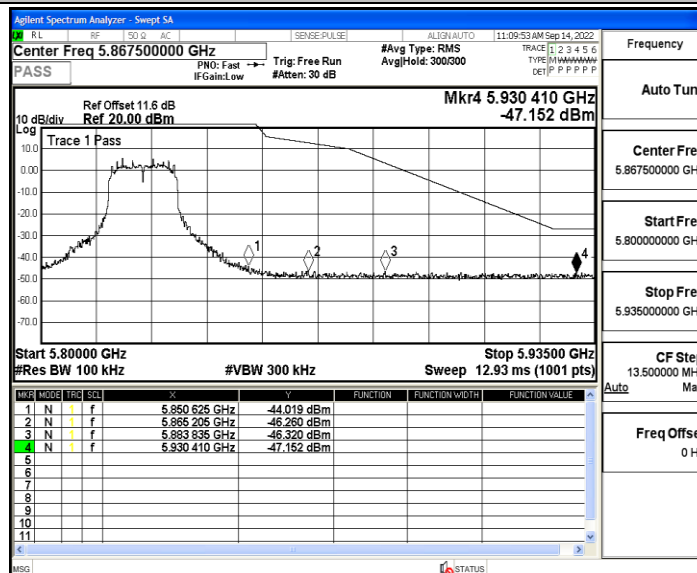
TestMode	Antenna	ChName	Channel	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5650~5700	-46.51	≤5.38	PASS
				5700~5720	-42.63	≤15.40	PASS
				5720~5725	-37.81	≤26.83	PASS
				5760~5650	-47.98	≤-27	PASS
		High	5825	5850~5855	-44.02	≤17.03	PASS
				5855~5875	-46.26	≤12.86	PASS
				5875~5925	-46.32	≤-20.46	PASS
				5925~5935	-47.15	≤-27	PASS
11N20SIS O	Ant1	Low	5745	5650~5700	-47.35	≤1.81	PASS
				5700~5720	-46.64	≤14.05	PASS
				5720~5725	-46.16	≤26.57	PASS
				5760~5650	-47.11	≤-27	PASS
		High	5825	5850~5855	-46.9	≤21.03	PASS
				5855~5875	-46.78	≤11.65	PASS
				5875~5925	-46.39	≤-3.18	PASS
				5925~5935	-45.86	≤-27	PASS
11N40SIS O	Ant1	Low	5755	5650~5700	-46.86	≤-1.73	PASS
				5700~5720	-44.09	≤15.16	PASS
				5720~5725	-42.79	≤23.43	PASS
				5780~5650	-48	≤-27	PASS
		High	5795	5850~5855	-42.73	≤16.79	PASS
				5855~5875	-42.93	≤10.55	PASS
				5875~5925	-45.83	≤8.24	PASS
				5925~5935	-47.32	≤-27	PASS
11AC20SI SO	Ant1	Low	5745	5650~5700	-47.51	≤-4.06	PASS
				5700~5720	-47.68	≤15.21	PASS
				5720~5725	-47.56	≤25.52	PASS
				5760~5650	-48.43	≤-27	PASS
		High	5825	5850~5855	-47.76	≤19.80	PASS
				5855~5875	-46.76	≤11.38	PASS
				5875~5925	-47.25	≤-6.08	PASS
				5925~5935	-46.92	≤-27	PASS
11AC40SI SO	Ant1	Low	5755	5650~5700	-46.52	≤9.06	PASS
				5700~5720	-46.35	≤15.28	PASS
				5720~5725	-45.05	≤26.20	PASS
				5780~5650	-47.97	≤-27	PASS
		High	5795	5850~5855	-47.66	≤16.79	PASS
				5855~5875	-46.56	≤10.13	PASS
				5875~5925	-46.46	≤8.98	PASS
				5925~5935	-47.75	≤-27	PASS

Test Graphs

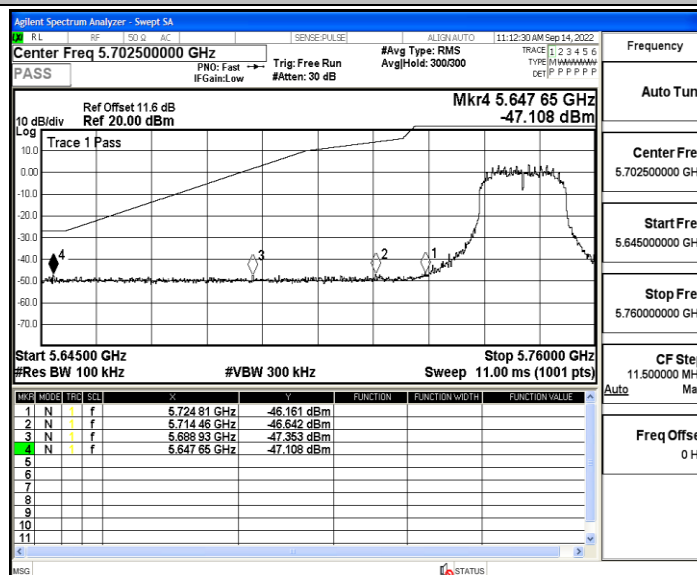
11A_Ant1_Low_5745



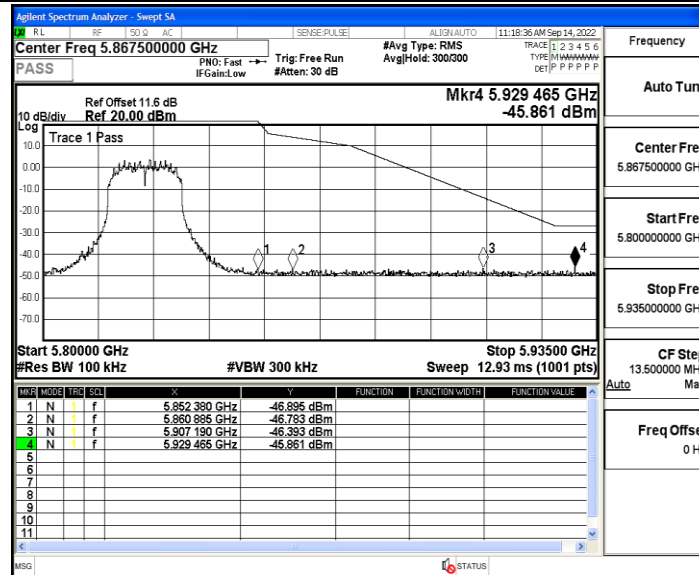
11A_Ant1_High_5825



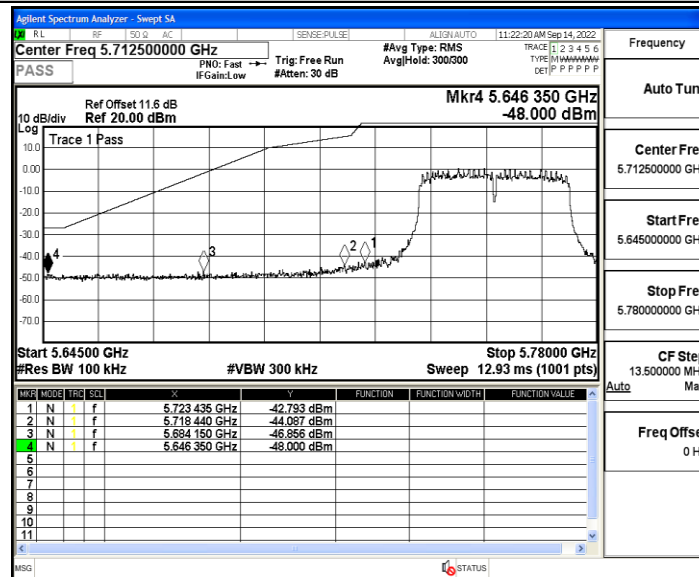
11N20SISO_Ant1_Low_5745



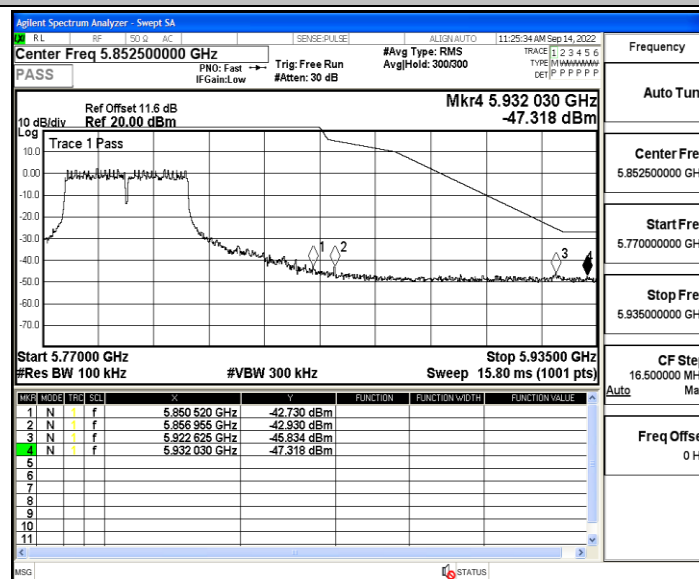
11N20SISO_Ant1_High_5825



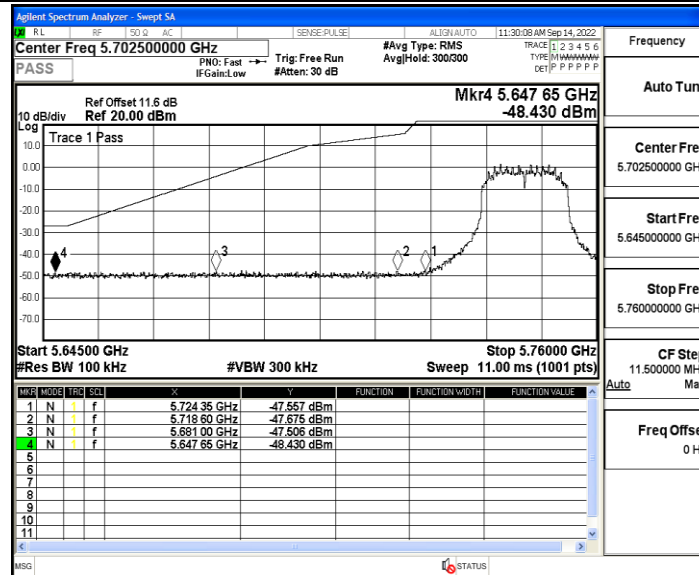
11N40SISO_Ant1_Low_5755



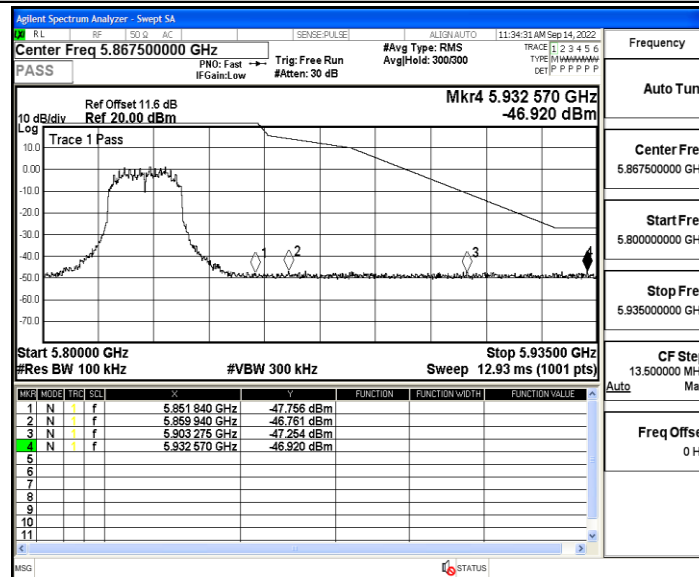
11N40SISO_Ant1_High_5795



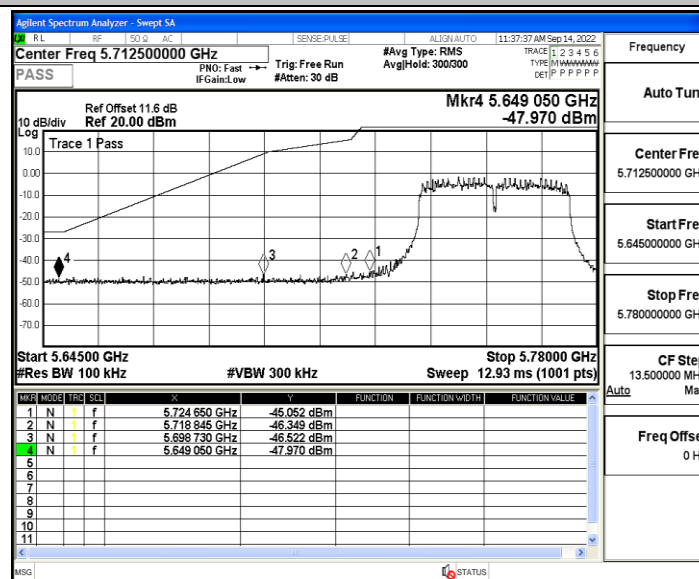
11AC20SISO_Ant1_Low_5745



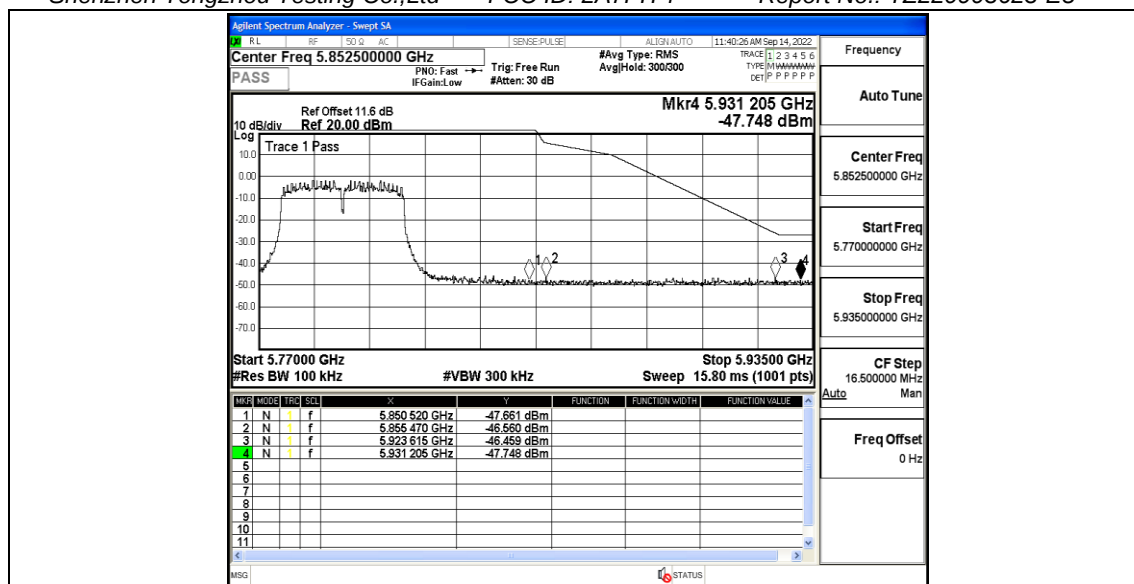
11AC20SISO_Ant1_High_5825



11AC40SISO_Ant1_Low_5755



11AC40SISO_Ant1_High_5795



Appendix E: Frequency Stability

Test Result

Ant1

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5745	20	132	5744.900978	5725 – 5850	PASS
5745	20	108	5745.041039	5725 – 5850	PASS
5745	50	120	5744.933548	5725 – 5850	PASS
5745	40	120	5745.050945	5725 – 5850	PASS
5745	30	120	5745.009926	5725 – 5850	PASS
5745	20	120	5744.907202	5725 – 5850	PASS
5745	10	120	5745.076732	5725 – 5850	PASS
5745	0	120	5745.084333	5725 – 5850	PASS
5745	-10	120	5744.903159	5725 – 5850	PASS
5745	-20	120	5745.033055	5725 – 5850	PASS
5745	-30	120	5745.059729	5725 – 5850	PASS

Ant1

Frequency (MHz)	Environment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5785	20	132	5784.918658	5725 – 5850	PASS
5785	20	108	5784.976167	5725 – 5850	PASS
5785	50	120	5785.027551	5725 – 5850	PASS
5785	40	120	5784.962090	5725 – 5850	PASS
5785	30	120	5784.990629	5725 – 5850	PASS
5785	20	120	5784.998354	5725 – 5850	PASS
5785	10	120	5785.012681	5725 – 5850	PASS
5785	0	120	5785.059765	5725 – 5850	PASS
5785	-10	120	5784.912339	5725 – 5850	PASS
5785	-20	120	5785.074352	5725 – 5850	PASS
5785	-30	120	5784.912952	5725 – 5850	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5825	20	132	5824.902968	5725 – 5850	PASS
5825	20	108	5824.910994	5725 – 5850	PASS
5825	50	120	5824.955446	5725 – 5850	PASS
5825	40	120	5824.950636	5725 – 5850	PASS
5825	30	120	5824.982370	5725 – 5850	PASS
5825	20	120	5825.085909	5725 – 5850	PASS
5825	10	120	5824.906989	5725 – 5850	PASS
5825	0	120	5825.008848	5725 – 5850	PASS
5825	-10	120	5824.975844	5725 – 5850	PASS
5825	-20	120	5824.953194	5725 – 5850	PASS
5825	-30	120	5825.032182	5725 – 5850	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5755	20	132	5755.085781	5725 – 5850	PASS
5755	20	108	5755.018576	5725 – 5850	PASS
5755	50	120	5754.997551	5725 – 5850	PASS
5755	40	120	5755.045244	5725 – 5850	PASS
5755	30	120	5755.005085	5725 – 5850	PASS
5755	20	120	5754.993754	5725 – 5850	PASS
5755	10	120	5755.045784	5725 – 5850	PASS
5755	0	120	5754.938192	5725 – 5850	PASS
5755	-10	120	5755.050014	5725 – 5850	PASS
5755	-20	120	5754.939851	5725 – 5850	PASS
5755	-30	120	5755.084397	5725 – 5850	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5795	20	132	5794.976560	5725 – 5850	PASS
5795	20	108	5794.980464	5725 – 5850	PASS
5795	50	120	5795.053547	5725 – 5850	PASS
5795	40	120	5795.071755	5725 – 5850	PASS
5795	30	120	5794.989789	5725 – 5850	PASS
5795	20	120	5794.909062	5725 – 5850	PASS
5795	10	120	5795.070606	5725 – 5850	PASS
5795	0	120	5794.943231	5725 – 5850	PASS
5795	-10	120	5794.943866	5725 – 5850	PASS
5795	-20	120	5795.024793	5725 – 5850	PASS
5795	-30	120	5795.006434	5725 – 5850	PASS

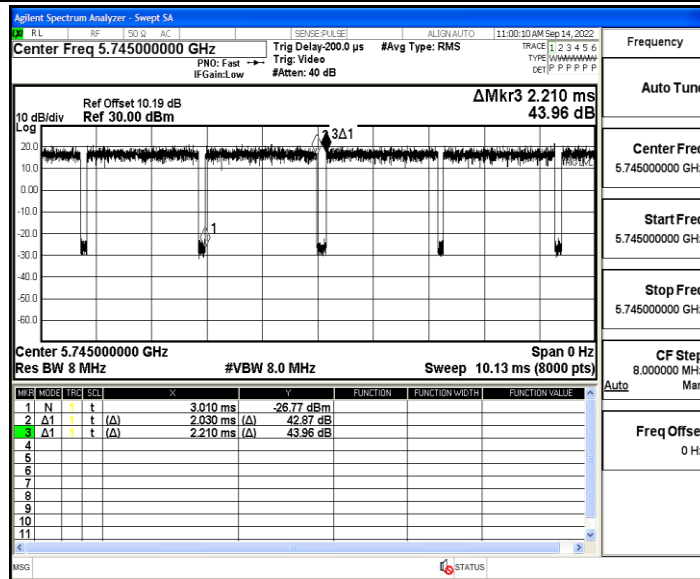
Appendix F: Duty Cycle

Test Result

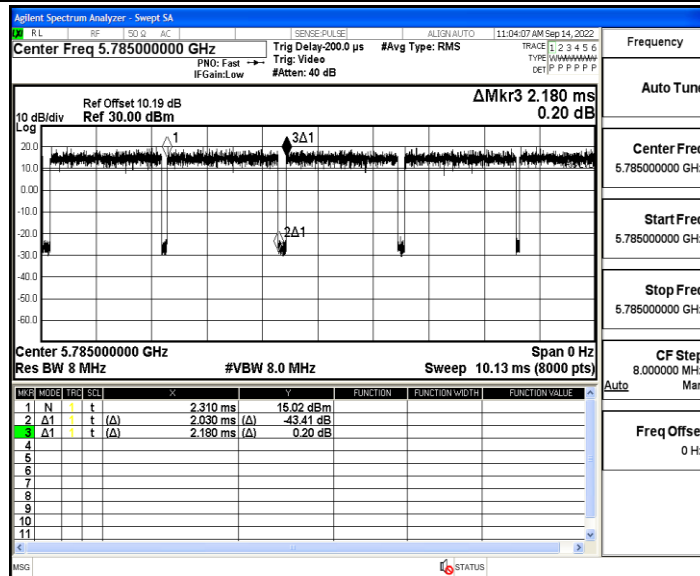
TestMode	Antenna	Channel	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	1/T [kHz]
11A	Ant1	5745	2.03	2.21	91.86	0.49
		5785	2.03	2.18	93.12	0.49
		5825	2.03	2.19	92.69	0.49
11N20SISO	Ant1	5745	0.23	0.40	57.50	4.35
		5785	0.22	0.40	55.00	4.55
		5825	0.22	0.40	55.00	4.55
11N40SISO	Ant1	5755	0.13	0.31	41.94	7.69
		5795	0.13	0.31	41.94	7.69
11AC20SISO	Ant1	5745	0.20	0.43	46.51	5.00
		5785	0.20	0.43	46.51	5.00
		5825	0.20	0.37	54.05	5.00
11AC40SISO	Ant1	5755	0.10	0.34	29.41	10.00
		5795	0.11	0.29	37.93	9.09

Test Graphs

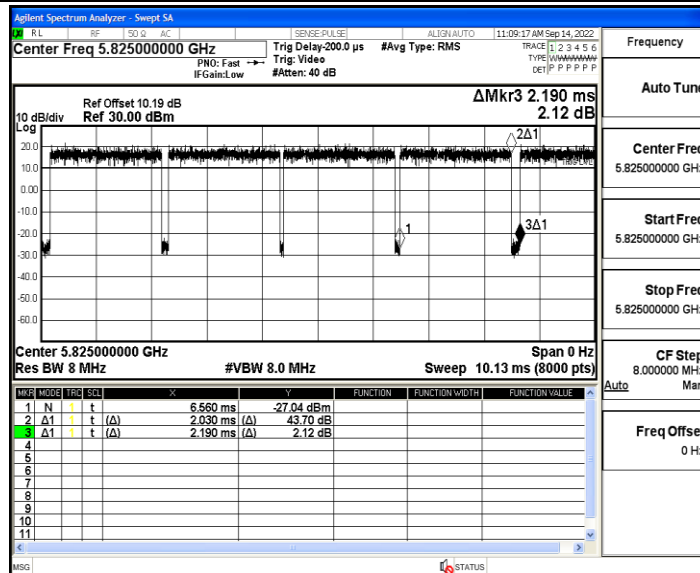
11A_Ant1_5745



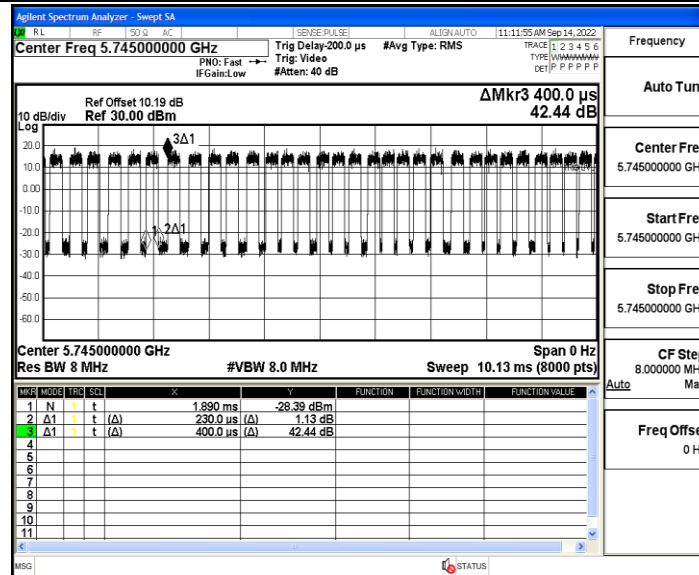
11A_Ant1_5785



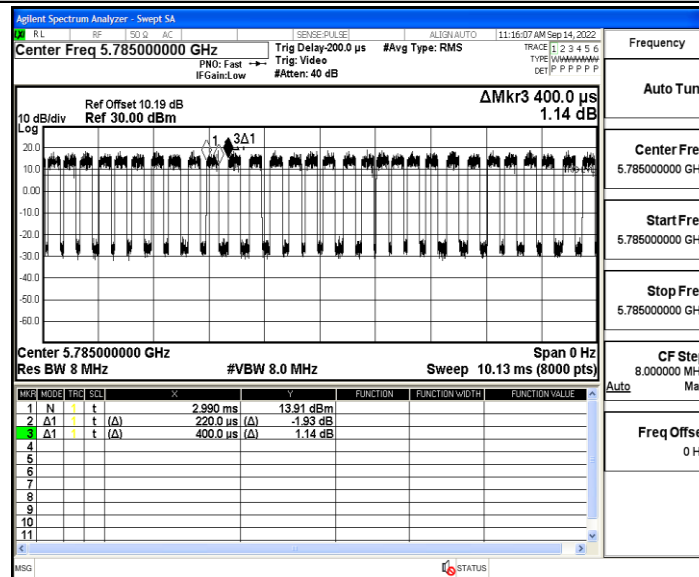
11A_Ant1_5825



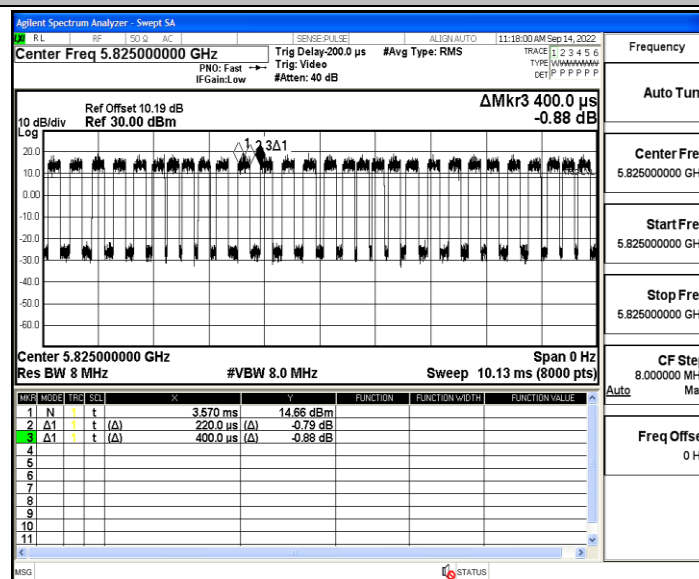
11N20SISO_Ant1_5745



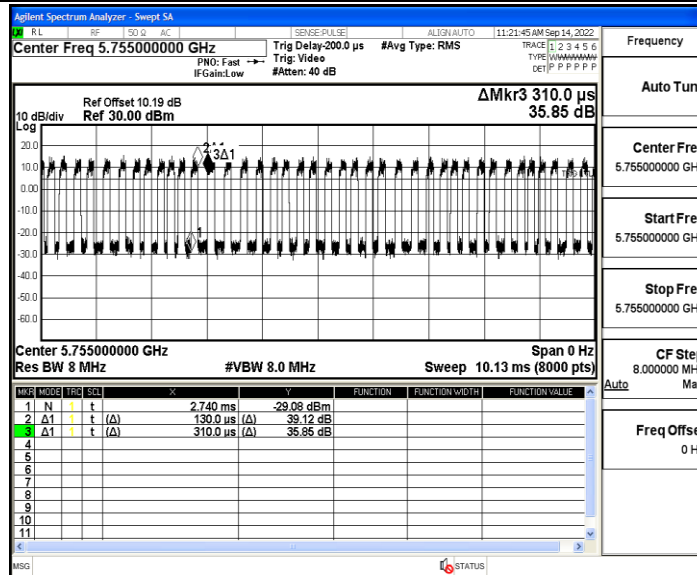
11N20SISO_Ant1_5785



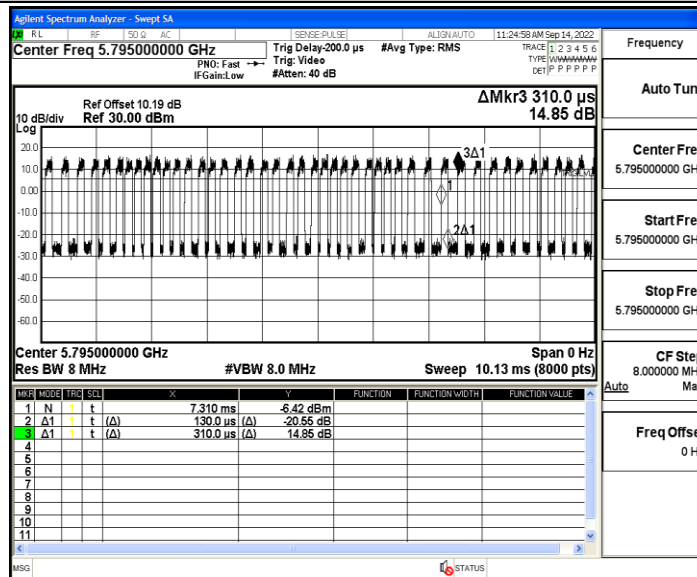
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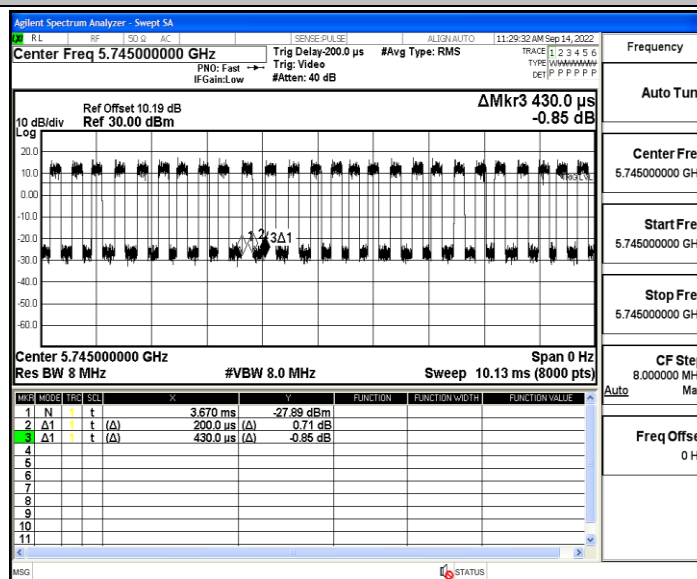
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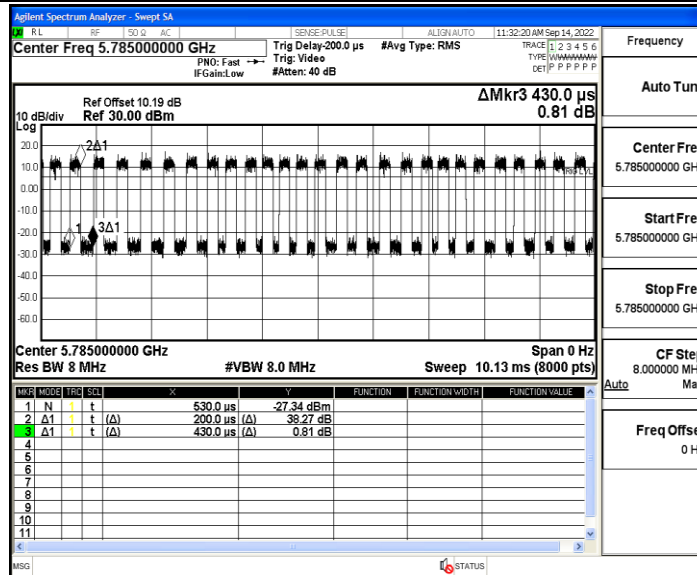
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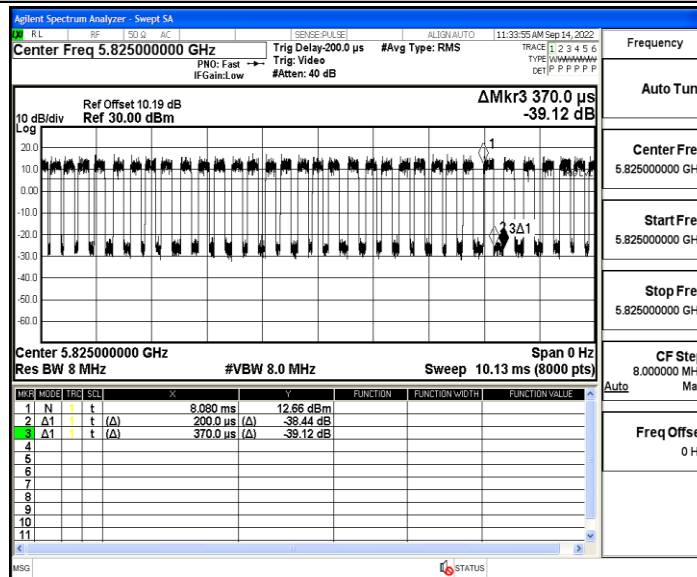
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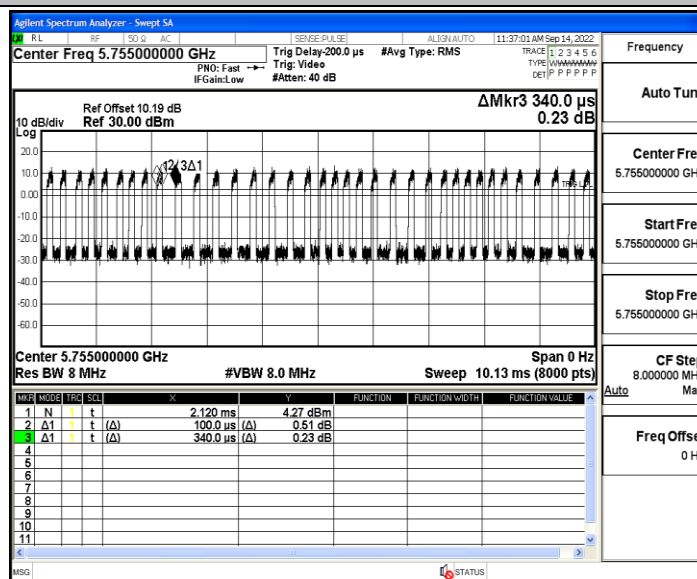
11AC20SISO_Ant1_5785



11AC20SISO_Ant1_5825



11AC40SISO_Ant1_5755



11AC40SISO_Ant1_5795

