RF Test Data for RLAN(5. 8G) (Conducted Measurement)

Product Name: MONKi Table Order

Trade Mark: /

Test Model: MK-TO2

FCC ID: 2BKTM-MK-TO2

Environmental Conditions

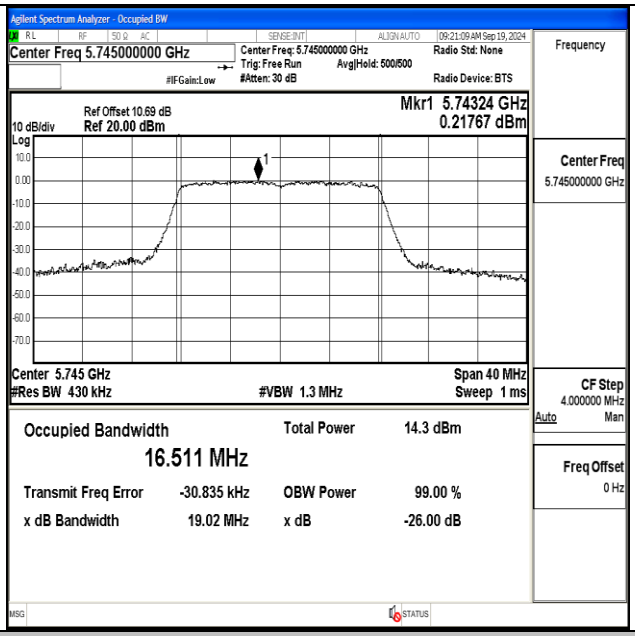
Temperature:	23.8℃
Relative Humidity:	58%
ATM Pressure:	100.0 kPa
Test Engineer:	Allen Lai
Supervised by:	Hugo Chen
NOTE	N/A

Appendix A2: Occupied channel bandwidth

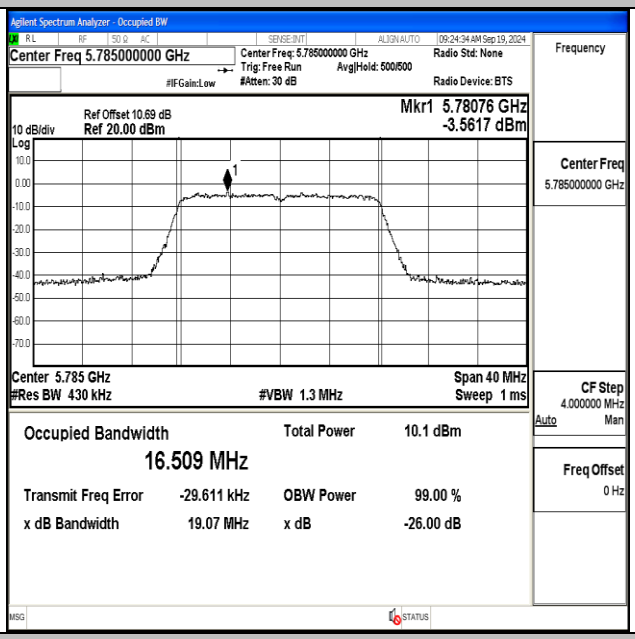
Test Result

Test Mode	Antenna	Frequency [MHz]	OCB [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant1	5745	16.511	5736.7137	5753.2247	---	---
11A	Ant1	5785	16.509	5776.7159	5793.2249	---	---
11A	Ant1	5825	16.481	5816.7677	5833.2487	---	---
11N20SISO	Ant1	5745	17.629	5736.1417	5753.7707	---	---
11N20SISO	Ant1	5785	17.620	5776.1566	5793.7766	---	---
11N20SISO	Ant1	5825	17.633	5816.1734	5833.8064	---	---
11N40SISO	Ant1	5755	36.315	5736.7734	5773.0884	---	---
11N40SISO	Ant1	5795	36.339	5776.8003	5813.1393	---	---
11AC20SISO	Ant1	5745	17.702	5736.1352	5753.8372	---	---
11AC20SISO	Ant1	5785	17.694	5776.1164	5793.8104	---	---
11AC20SISO	Ant1	5825	17.721	5816.0986	5833.8196	---	---
11AC40SISO	Ant1	5755	36.194	5736.8479	5773.0419	---	---
11AC40SISO	Ant1	5795	36.241	5776.7962	5813.0372	---	---
11AC80SISO	Ant1	5775	74.734	5737.3055	5812.0395	---	---

Test Graphs



11A-Ant1-5745



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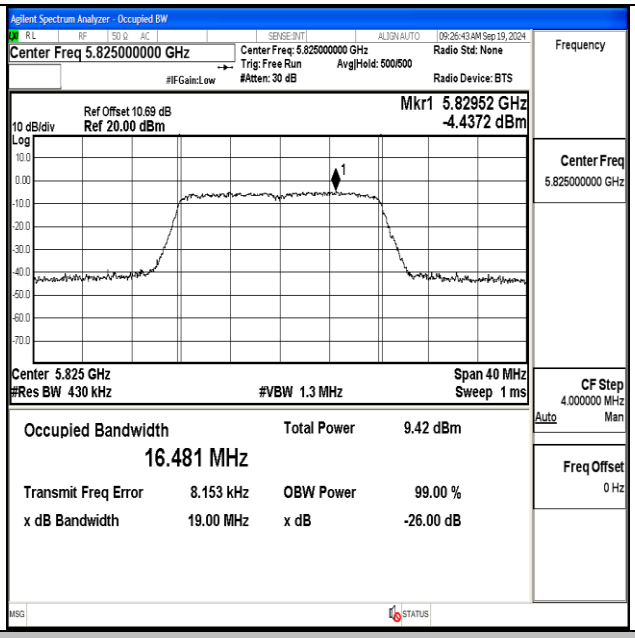

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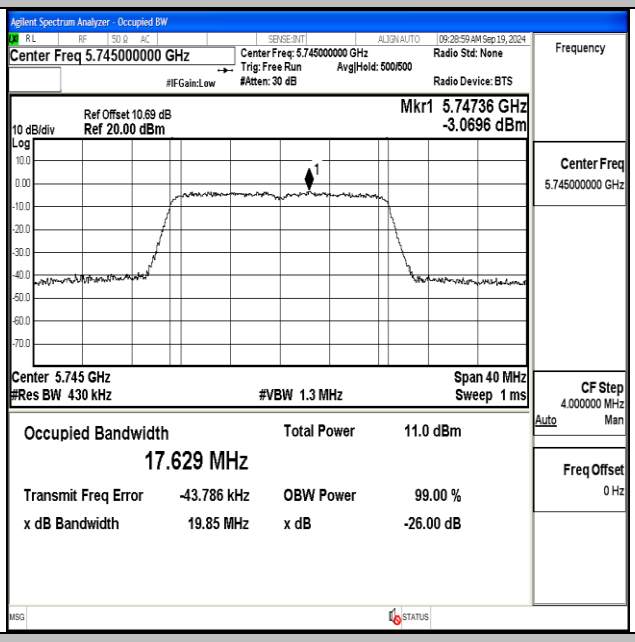

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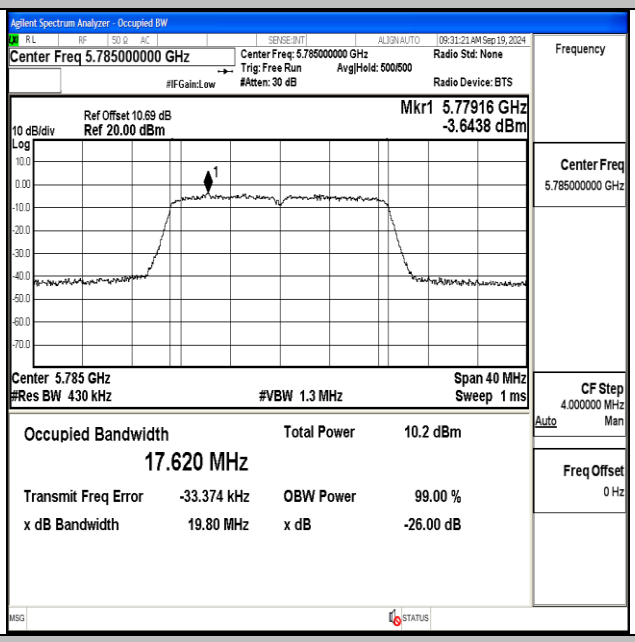

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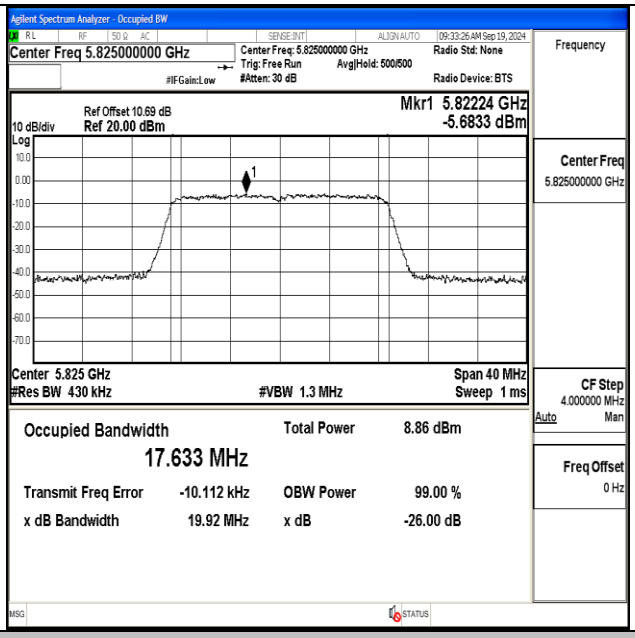

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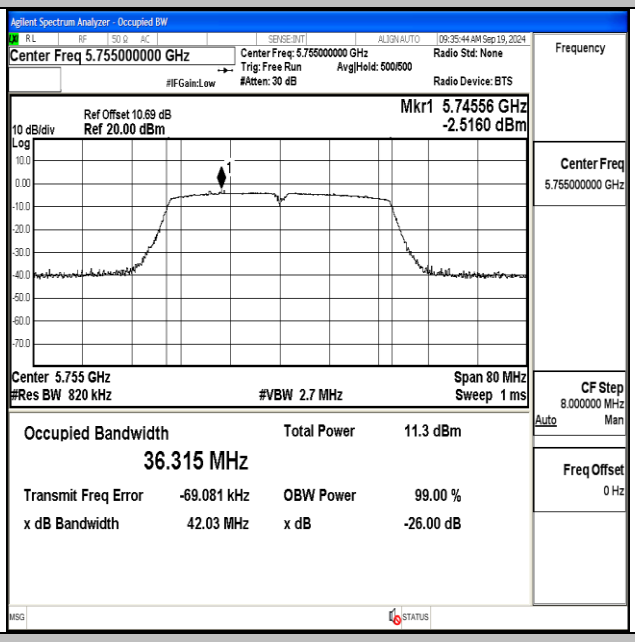

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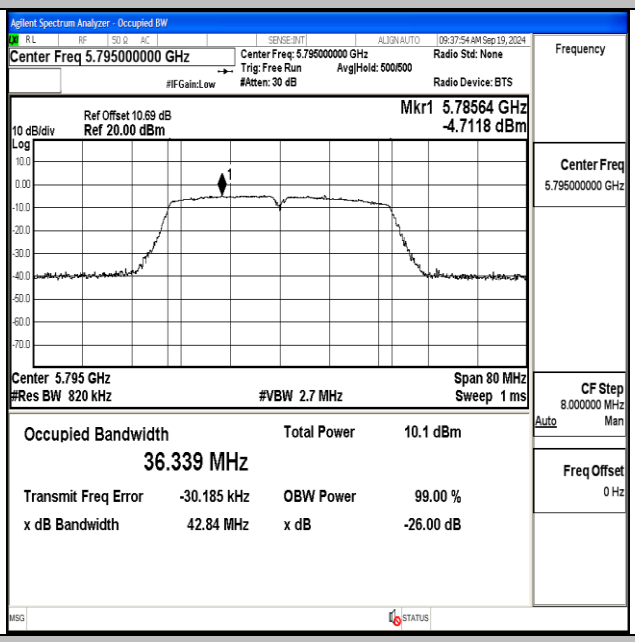

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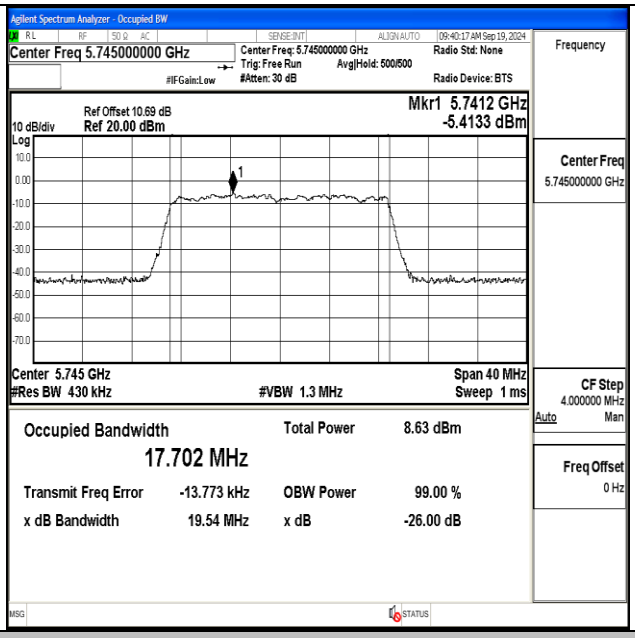

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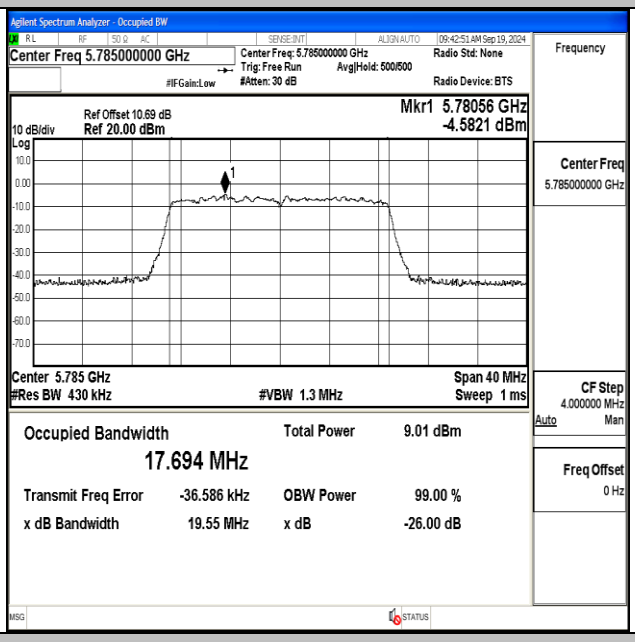

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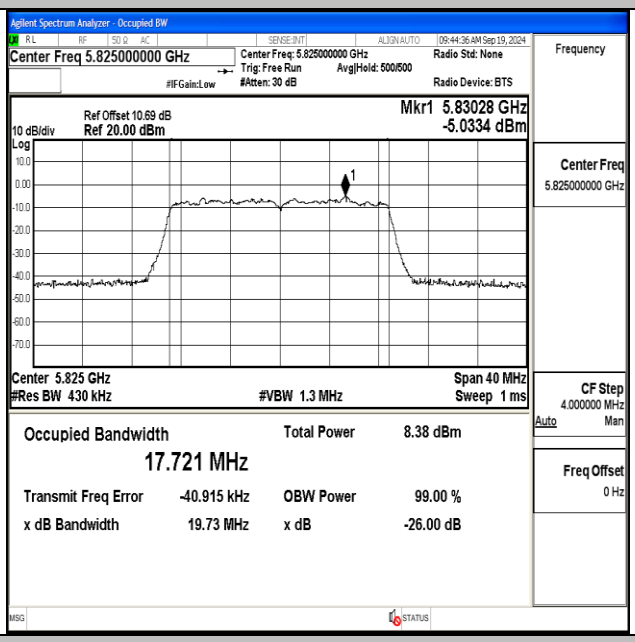

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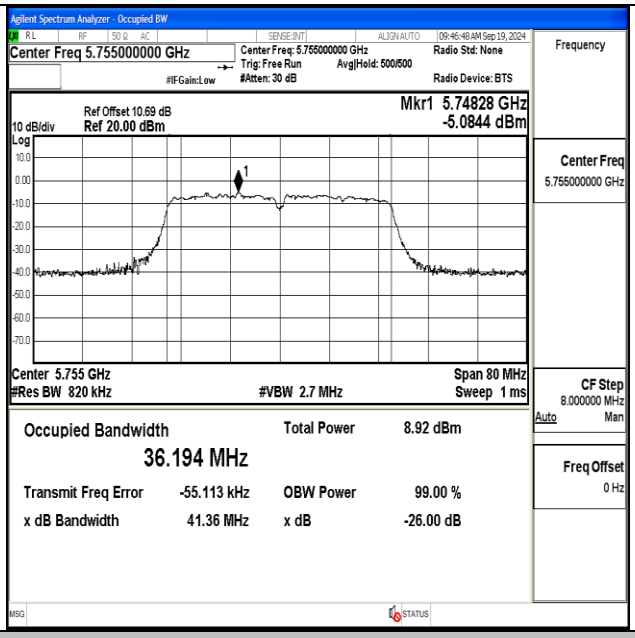

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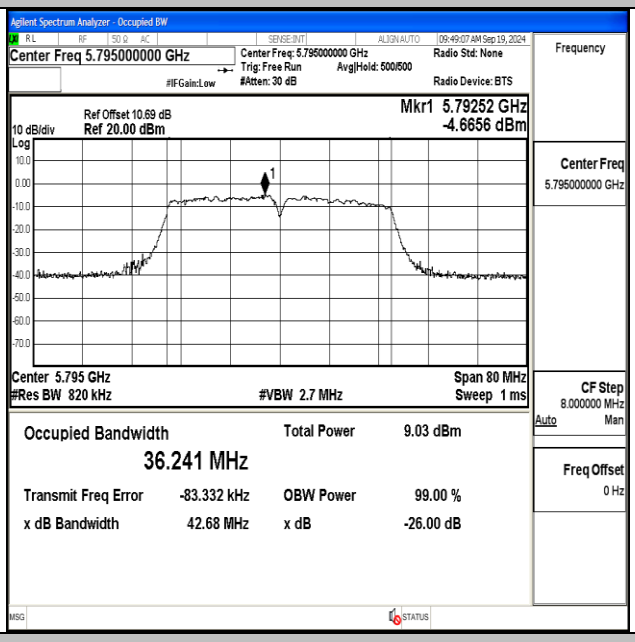

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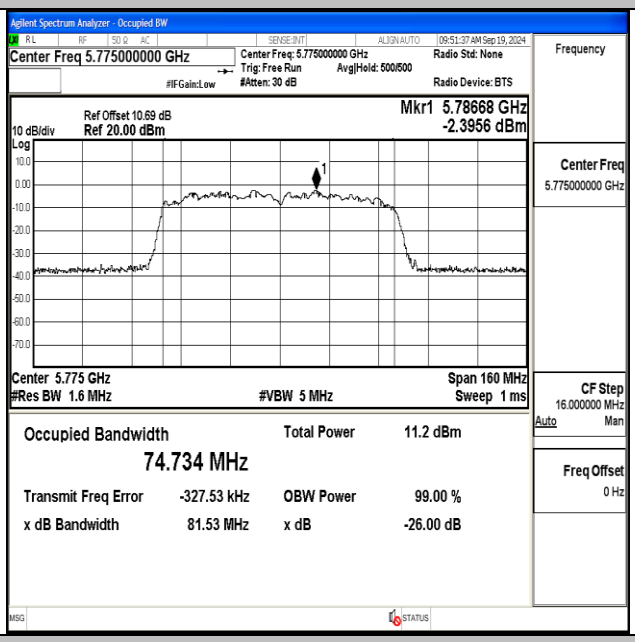


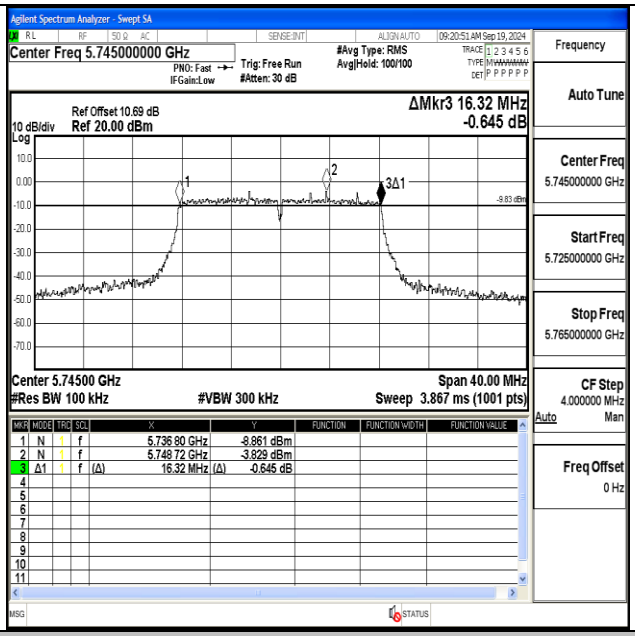
11AC80SISO-Ant1-5775

Appendix A: Min emission bandwidth

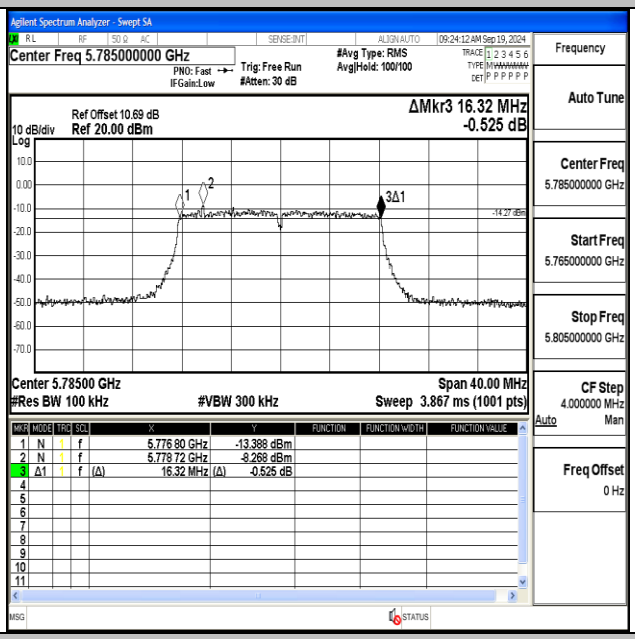
Test Result

Test Mode	Antenna	Frequency [MHz]	6db EBW [MHz]	FL [MHz]	FH [MHz]	Limit [MHz]	Verdict
11A	Ant1	5745	16.320	5736.800	5753.120	0.5	PASS
11A	Ant1	5785	16.320	5776.800	5793.120	0.5	PASS
11A	Ant1	5825	16.320	5816.800	5833.120	0.5	PASS
11N20SISO	Ant1	5745	17.160	5736.200	5753.360	0.5	PASS
11N20SISO	Ant1	5785	17.560	5776.160	5793.720	0.5	PASS
11N20SISO	Ant1	5825	17.520	5816.200	5833.720	0.5	PASS
11N40SISO	Ant1	5755	35.360	5737.080	5772.440	0.5	PASS
11N40SISO	Ant1	5795	35.040	5777.480	5812.520	0.5	PASS
11AC20SISO	Ant1	5745	17.560	5736.200	5753.760	0.5	PASS
11AC20SISO	Ant1	5785	17.480	5776.280	5793.760	0.5	PASS
11AC20SISO	Ant1	5825	17.520	5816.160	5833.680	0.5	PASS
11AC40SISO	Ant1	5755	35.680	5736.840	5772.520	0.5	PASS
11AC40SISO	Ant1	5795	35.120	5777.400	5812.520	0.5	PASS
11AC80SISO	Ant1	5775	72.640	5737.400	5810.040	0.5	PASS

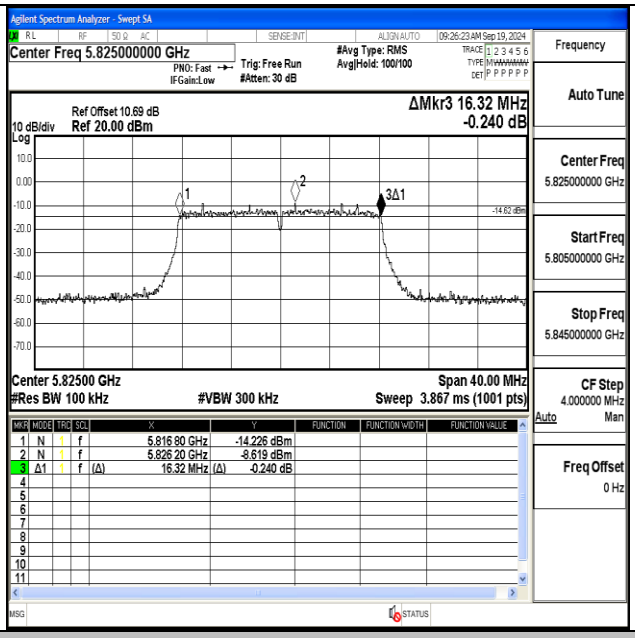
Test Graphs



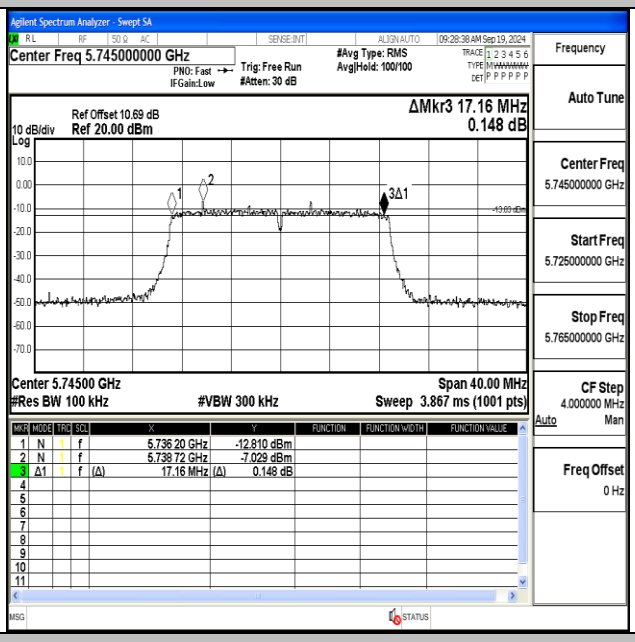
11A-Ant1-5745-PASS



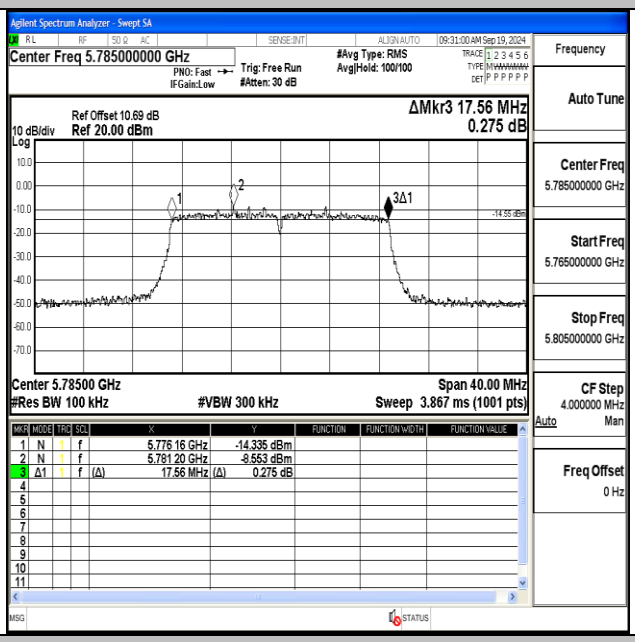
11A-Ant1-5785-PASS



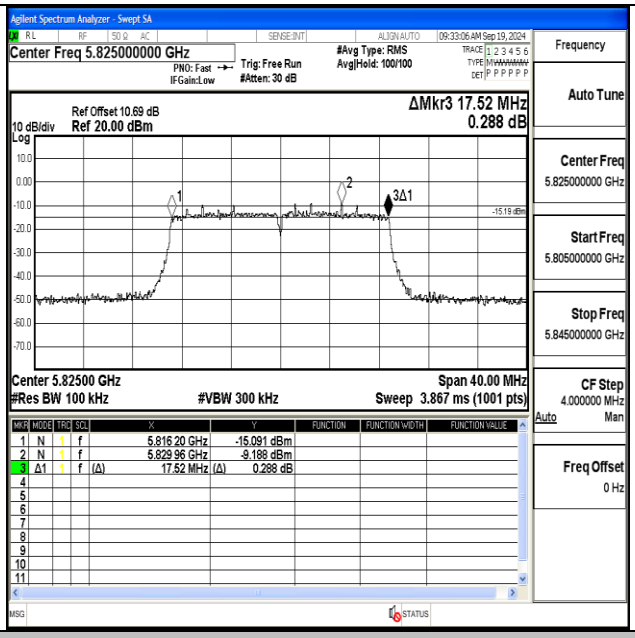
11A-Ant1-5825-PASS



11N20SISO-Ant1-5745-PASS



11N20SISO-Ant1-5785-PASS



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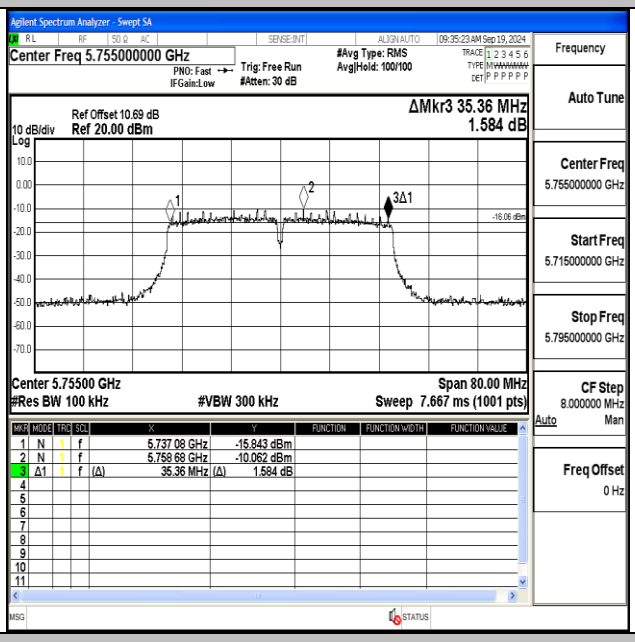

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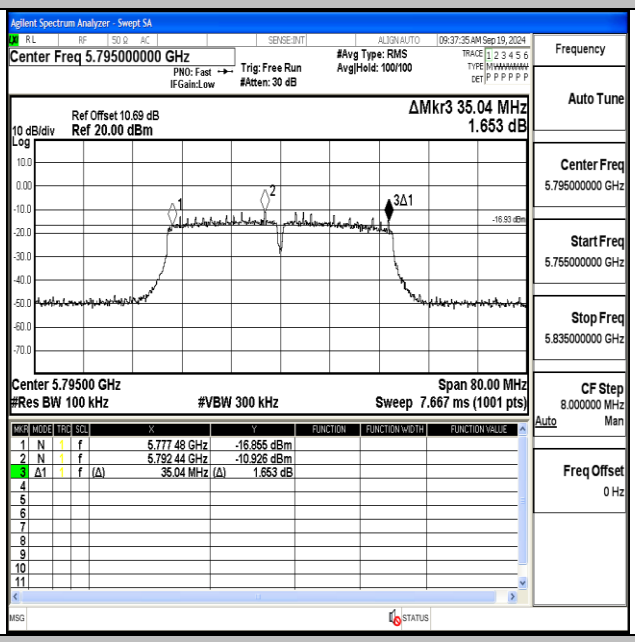
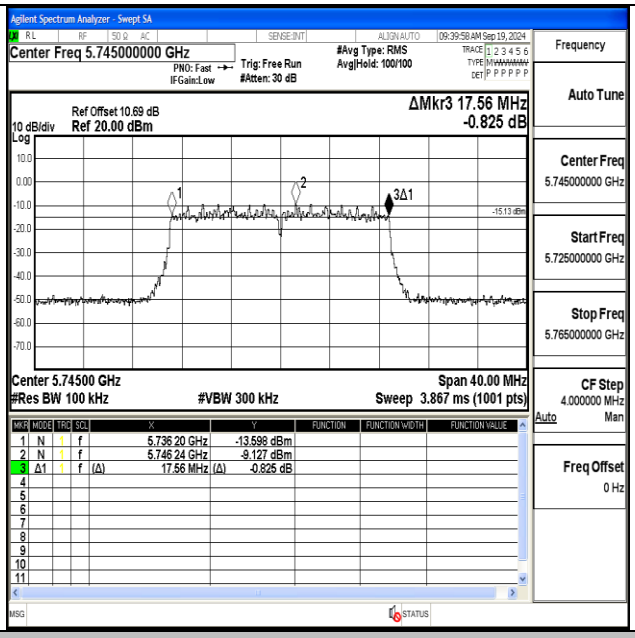


11N40SISO-Ant1-5795-PASS



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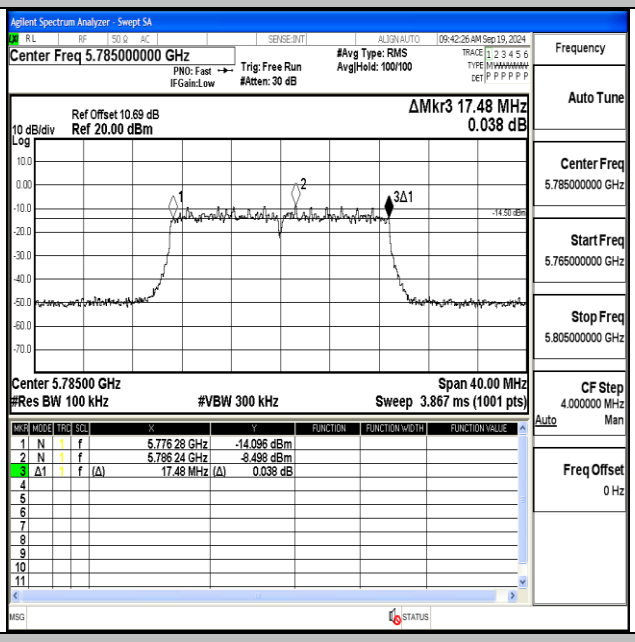

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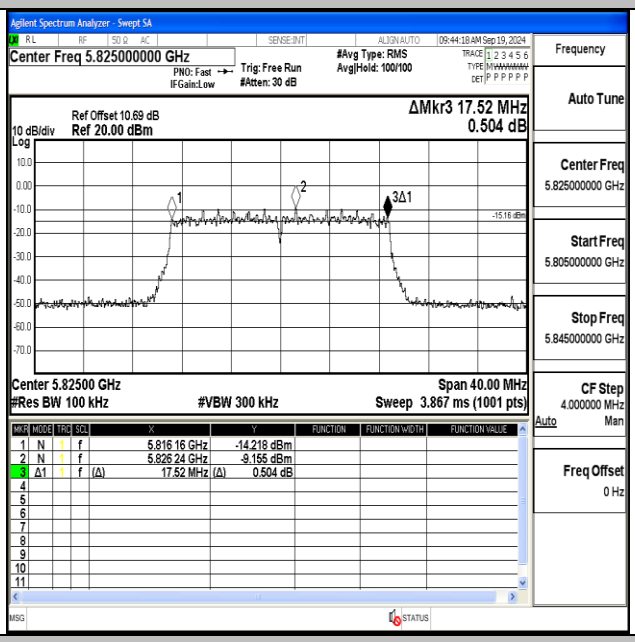

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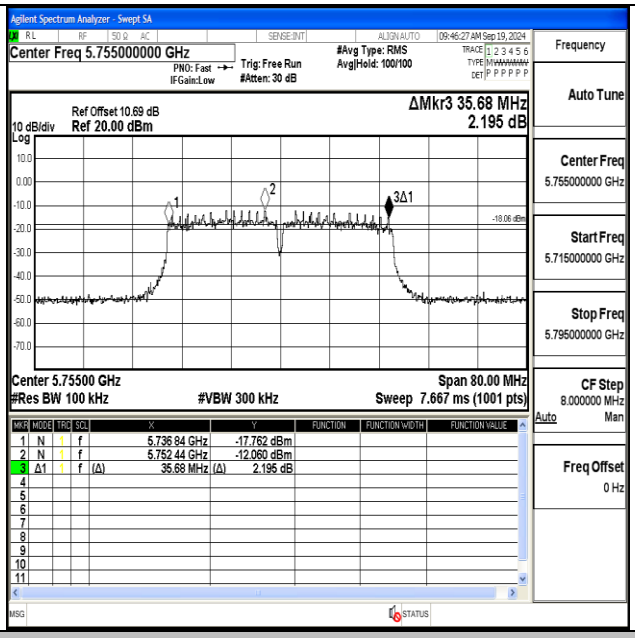

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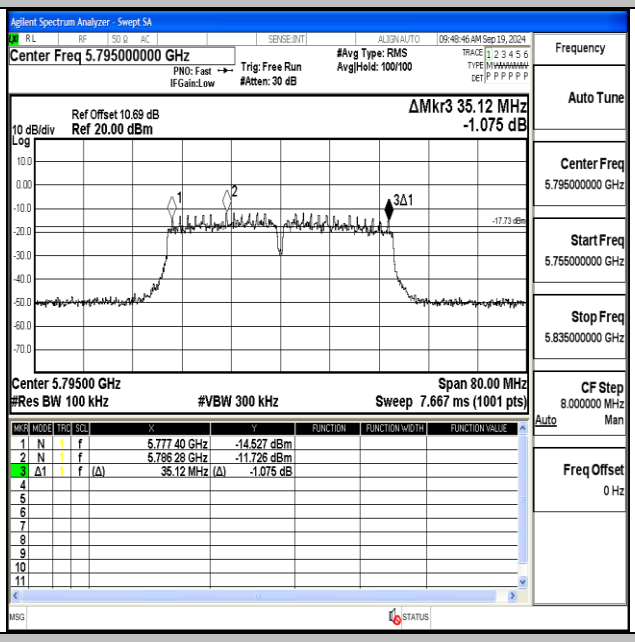
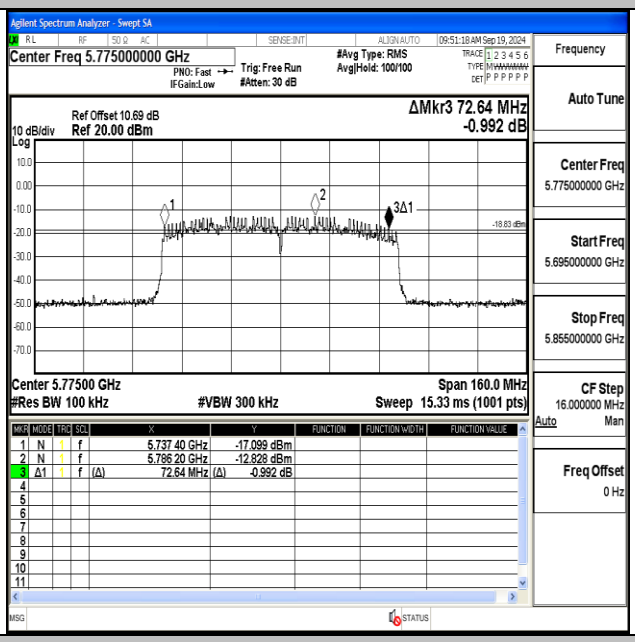


11AC40SISO-Ant1-5795-PASS



11AC80SISO-Ant1-5775-PASS

Appendix B: Maximum conducted output power

Test Result

Test Mode	Antenna	Frequency [MHz]	Conducted Power [dBm]	Conducted Limit [dBm]	Verdict
11A	Ant1	5745	4.41	≤30.00	PASS
11A	Ant1	5785	3.47	≤30.00	PASS
11A	Ant1	5825	2.81	≤30.00	PASS
11N20SISO	Ant1	5745	5.46	≤30.00	PASS
11N20SISO	Ant1	5785	3.52	≤30.00	PASS
11N20SISO	Ant1	5825	2.36	≤30.00	PASS
11N40SISO	Ant1	5755	4.12	≤30.00	PASS
11N40SISO	Ant1	5795	3.09	≤30.00	PASS
11AC20SISO	Ant1	5745	2.60	≤30.00	PASS
11AC20SISO	Ant1	5785	3.07	≤30.00	PASS
11AC20SISO	Ant1	5825	1.78	≤30.00	PASS
11AC40SISO	Ant1	5755	2.13	≤30.00	PASS
11AC40SISO	Ant1	5795	1.96	≤30.00	PASS
11AC80SISO	Ant1	5775	4.13	≤30.00	PASS

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

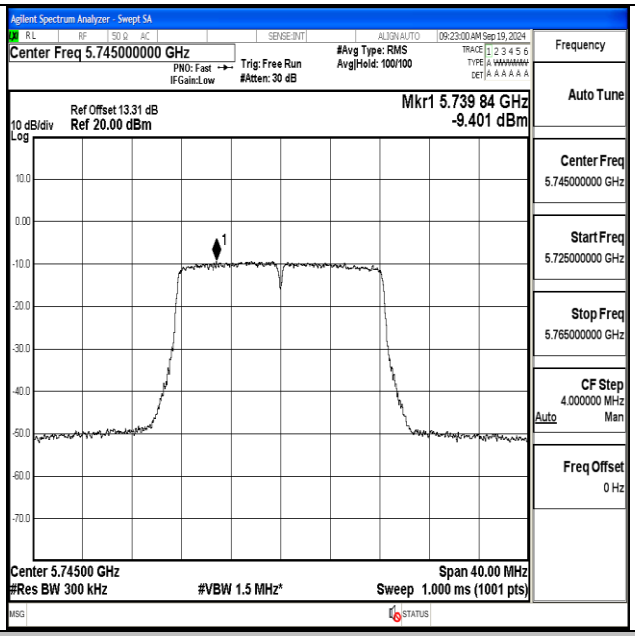
Appendix C: Maximum power spectral density

Test Result

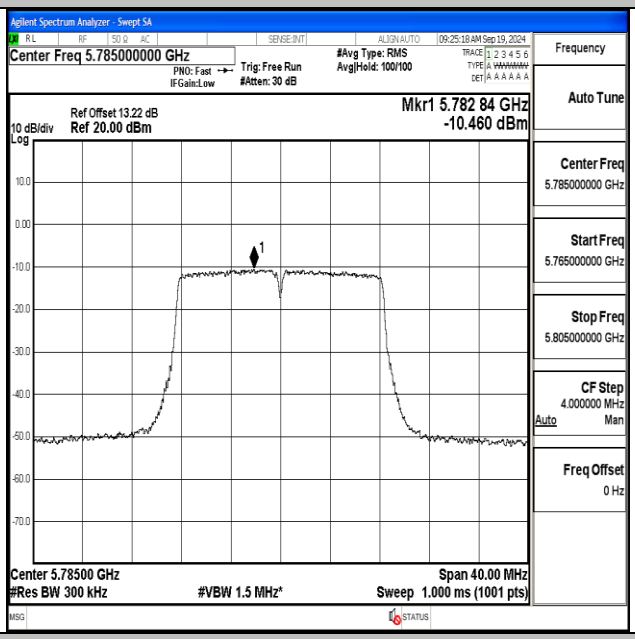
Test Mode	Antenna	Frequency [MHz]	Result [dBm/MHz]	DC Factor [dB]	RBW Factor [dB]	Limit [dBm/MHz]	Verdict
11A	Ant1	5745	-9.40	0.40	2.22	≤30.00	PASS
11A	Ant1	5785	-10.46	0.31	2.22	≤30.00	PASS
11A	Ant1	5825	-11.00	0.38	2.22	≤30.00	PASS
11N20SISO	Ant1	5745	-8.57	1.52	2.22	≤30.00	PASS
11N20SISO	Ant1	5785	-10.78	0.39	2.22	≤30.00	PASS
11N20SISO	Ant1	5825	-11.72	0.39	2.22	≤30.00	PASS
11N40SISO	Ant1	5755	-12.60	0.83	2.22	≤30.00	PASS
11N40SISO	Ant1	5795	-13.67	0.84	2.22	≤30.00	PASS
11AC20SISO	Ant1	5745	-10.70	3.41	2.22	≤30.00	PASS
11AC20SISO	Ant1	5785	-10.24	3.32	2.22	≤30.00	PASS
11AC20SISO	Ant1	5825	-11.51	2.90	2.22	≤30.00	PASS
11AC40SISO	Ant1	5755	-13.16	4.65	2.22	≤30.00	PASS
11AC40SISO	Ant1	5795	-12.60	4.12	2.22	≤30.00	PASS
11AC80SISO	Ant1	5775	-13.00	6.17	2.22	≤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-PASS



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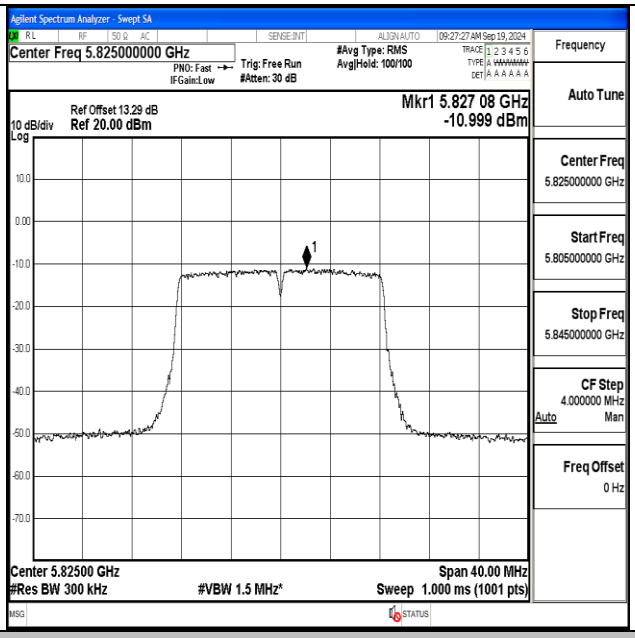

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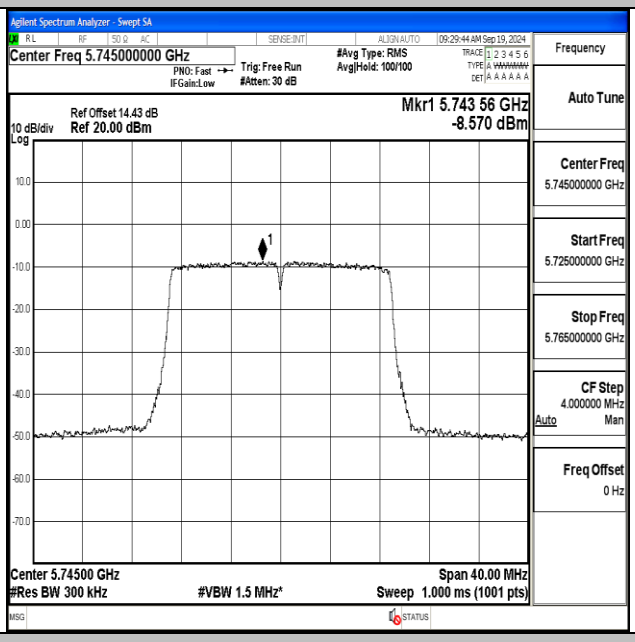

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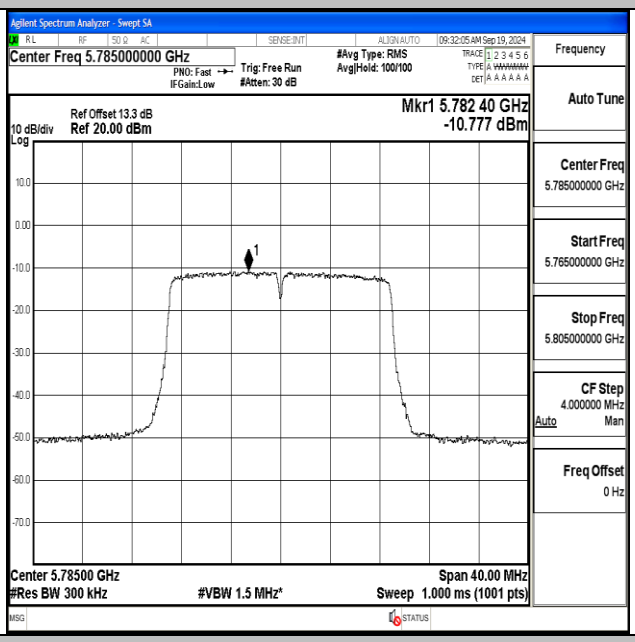

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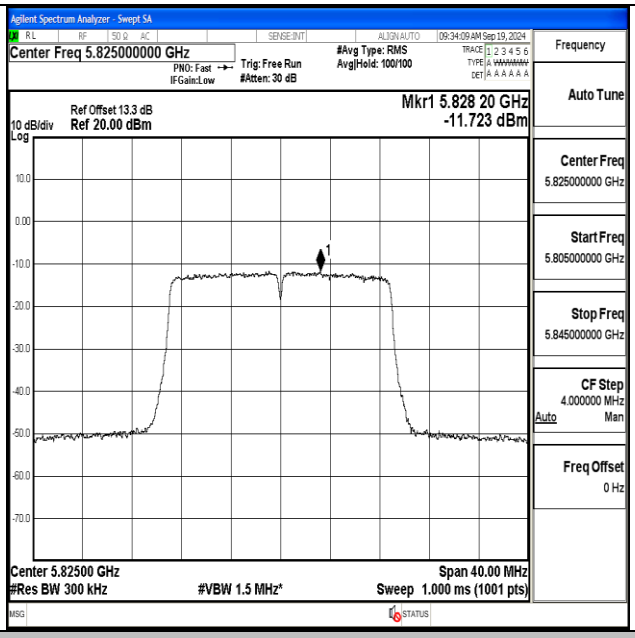

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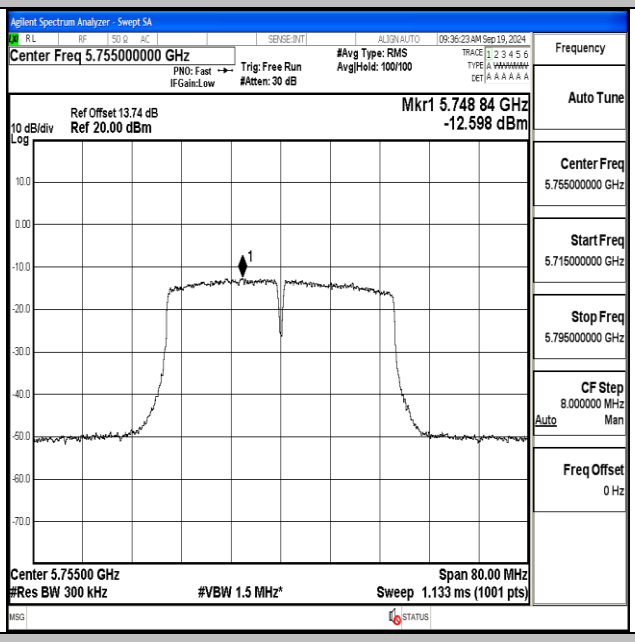

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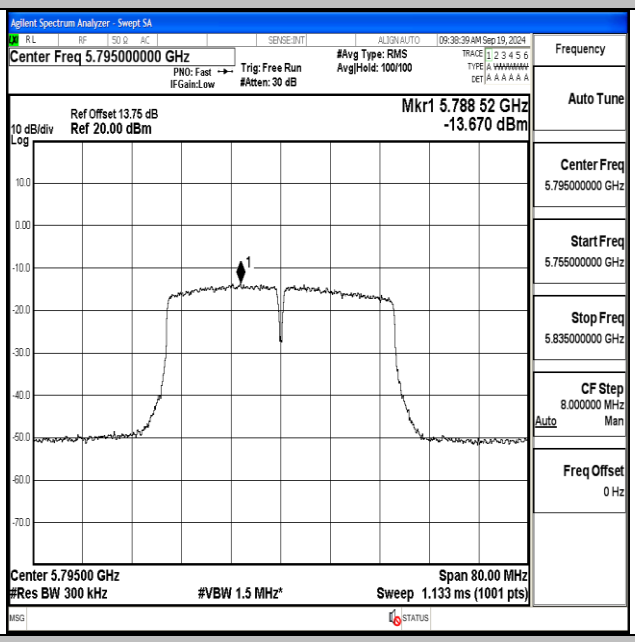

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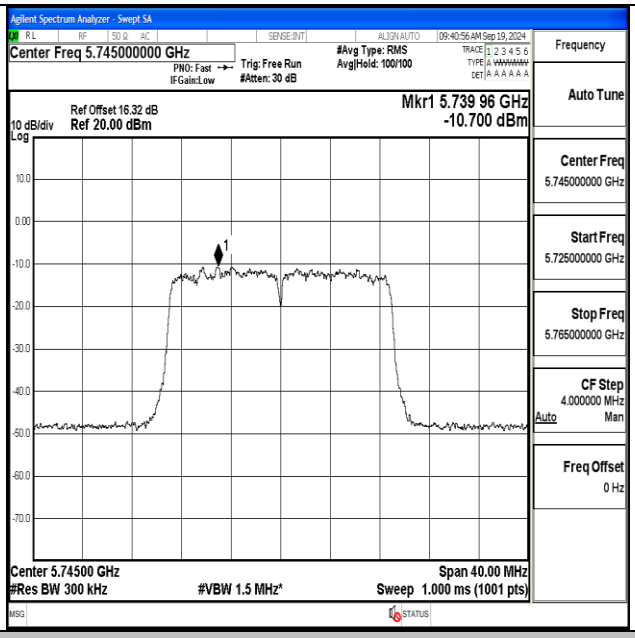

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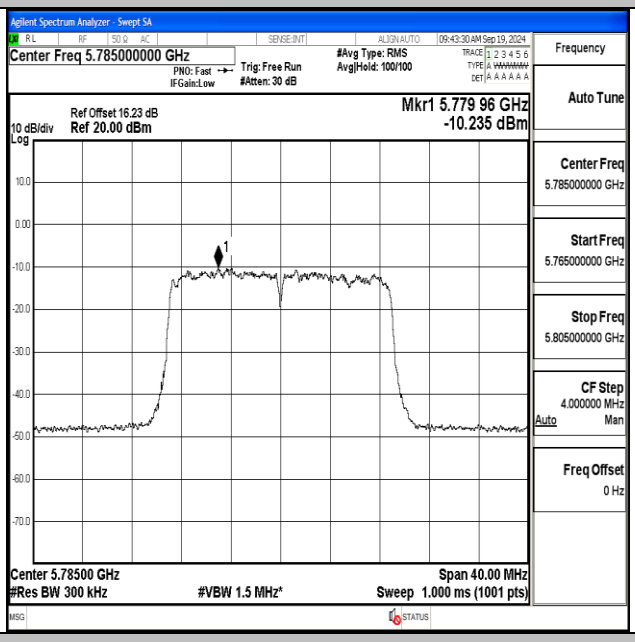
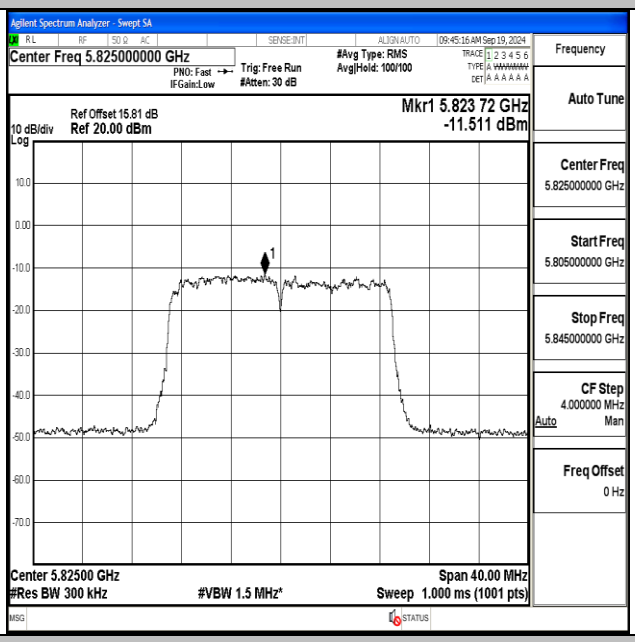
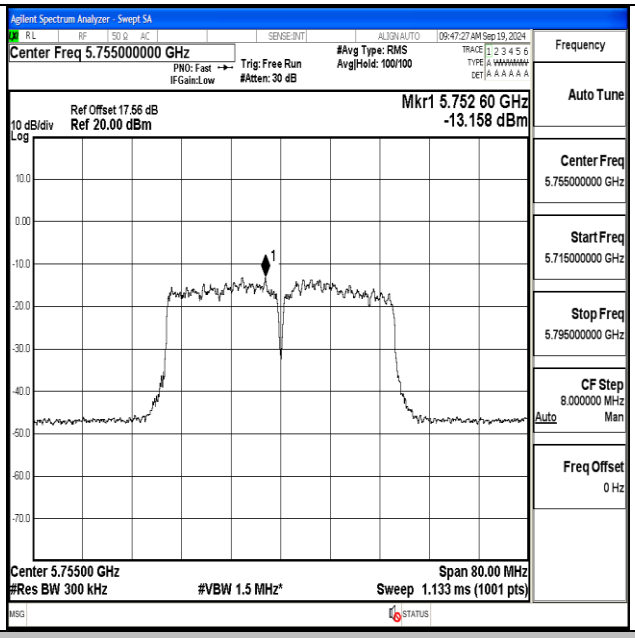


11AC20SISO-Ant1-5785-PASS



11AC20SISO-Ant1-5825-PASS



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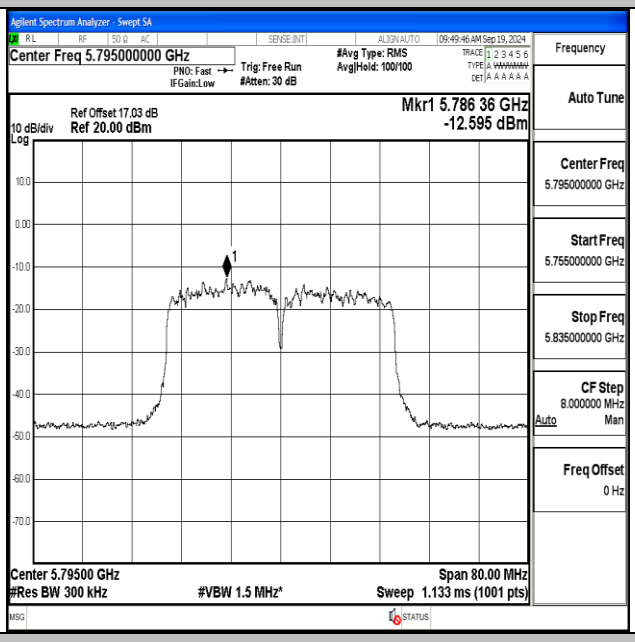
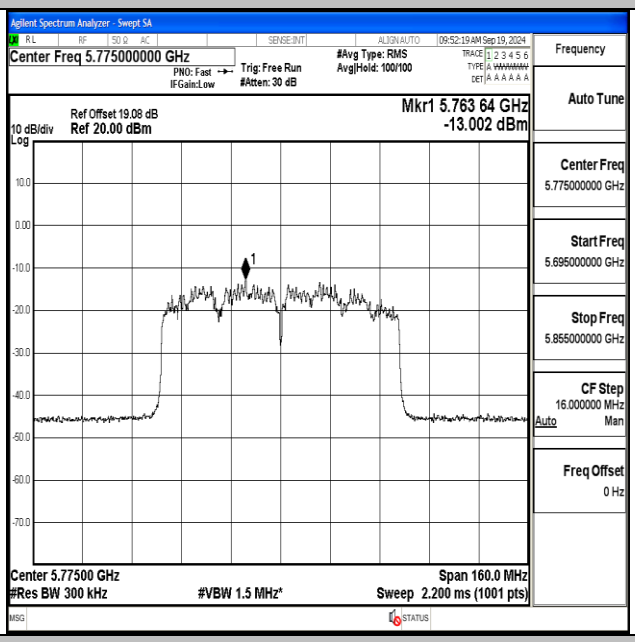


11AC40SISO-Ant1-5795-PASS



11AC80SISO-Ant1-5775-PASS

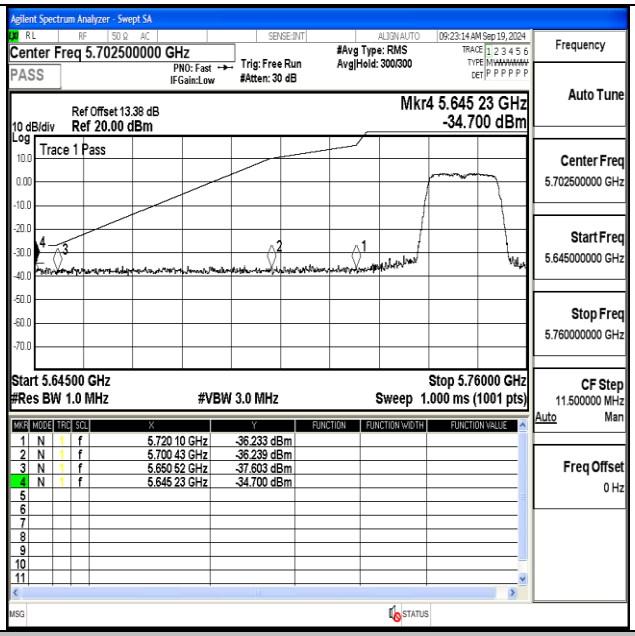
Appendix D: Band edge measurements

Test Result

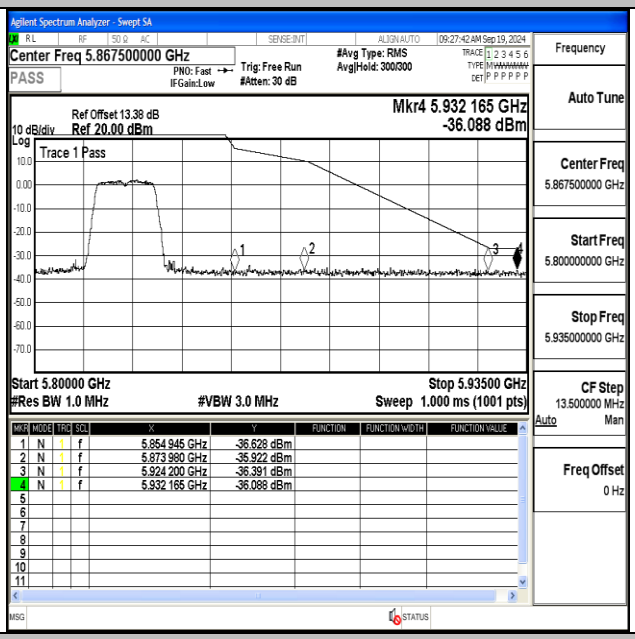
Test Mode	Antenna	Ch. Name	Frequency [MHz]	FreqRange [MHz]	Result [dBm]	Limit [dBm]	Verdict
11A	Ant1	Low	5745	5720~5725	-36.23	≤15.82	PASS
11A	Ant1	Low	5745	5700~5720	-36.24	≤10.12	PASS
11A	Ant1	Low	5745	5650~5700	-37.6	≤-26.62	PASS
11A	Ant1	Low	5745	5760~5650	-34.7	≤-27	PASS
11A	Ant1	High	5825	5850~5855	-36.63	≤15.73	PASS
11A	Ant1	High	5825	5855~5875	-35.92	≤10.29	PASS
11A	Ant1	High	5825	5875~5925	-36.39	≤-26.41	PASS
11A	Ant1	High	5825	5925~5935	-36.09	≤-27	PASS
11N20SISO	Ant1	Low	5745	5720~5725	-35.62	≤17.39	PASS
11N20SISO	Ant1	Low	5745	5700~5720	-35.5	≤11.02	PASS
11N20SISO	Ant1	Low	5745	5650~5700	-36.82	≤-26.79	PASS
11N20SISO	Ant1	Low	5745	5760~5650	-36.48	≤-27	PASS
11N20SISO	Ant1	High	5825	5850~5855	-37.39	≤15.73	PASS
11N20SISO	Ant1	High	5825	5855~5875	-36.26	≤10.06	PASS
11N20SISO	Ant1	High	5825	5875~5925	-36.6	≤-26.91	PASS
11N20SISO	Ant1	High	5825	5925~5935	-36.09	≤-27	PASS
11N40SISO	Ant1	Low	5755	5720~5725	-36.36	≤15.74	PASS
11N40SISO	Ant1	Low	5755	5700~5720	-34.63	≤12.10	PASS
11N40SISO	Ant1	Low	5755	5650~5700	-35.52	≤-26.70	PASS
11N40SISO	Ant1	Low	5755	5780~5650	-36.11	≤-27	PASS
11N40SISO	Ant1	High	5795	5850~5855	-35.8	≤15.66	PASS
11N40SISO	Ant1	High	5795	5855~5875	-35.77	≤10.43	PASS
11N40SISO	Ant1	High	5795	5875~5925	-34.91	≤-26.22	PASS
11N40SISO	Ant1	High	5795	5925~5935	-35.18	≤-27	PASS
11AC20S	Ant1	Low	5745	5720~5725	-35.91	≤17.65	PASS

ISO							
11AC20S ISO	Ant1	Low	5745	5700~5720	-35.72	≤10.25	PASS
11AC20S ISO	Ant1	Low	5745	5650~5700	-36.67	≤-26.45	PASS
11AC20S ISO	Ant1	Low	5745	5760~5650	-35.68	≤-27	PASS
11AC20S ISO	Ant1	High	5825	5850~5855	-35.91	≤15.73	PASS
11AC20S ISO	Ant1	High	5825	5855~5875	-35.65	≤10.78	PASS
11AC20S ISO	Ant1	High	5825	5875~5925	-36.5	≤-26.71	PASS
11AC20S ISO	Ant1	High	5825	5925~5935	-35.36	≤-27	PASS
11AC40S ISO	Ant1	Low	5755	5720~5725	-36.41	≤16.35	PASS
11AC40S ISO	Ant1	Low	5755	5700~5720	-35.98	≤10.67	PASS
11AC40S ISO	Ant1	Low	5755	5650~5700	-36.13	≤-26.70	PASS
11AC40S ISO	Ant1	Low	5755	5780~5650	-36.15	≤-27	PASS
11AC40S ISO	Ant1	High	5795	5850~5855	-37.24	≤16.41	PASS
11AC40S ISO	Ant1	High	5795	5855~5875	-35.84	≤10.99	PASS
11AC40S ISO	Ant1	High	5795	5875~5925	-36.23	≤-26.95	PASS
11AC40S ISO	Ant1	High	5795	5925~5935	-35.94	≤-27	PASS
11AC80S ISO	Ant1	Low	5775	5720~5725	-35.81	≤16.00	PASS
11AC80S ISO	Ant1	Low	5775	5700~5720	-36.13	≤10.05	PASS
11AC80S ISO	Ant1	Low	5775	5650~5700	-36.74	≤-26.34	PASS
11AC80S ISO	Ant1	Low	5775	5800~5650	-36.79	≤-27	PASS
11AC80S ISO	Ant1	High	5775	5850~5855	-36.8	≤15.84	PASS
11AC80S ISO	Ant1	High	5775	5855~5875	-36.5	≤10.35	PASS
11AC80S ISO	Ant1	High	5775	5875~5925	-35.83	≤-26.73	PASS
11AC80S ISO	Ant1	High	5775	5925~5935	-35.73	≤-27	PASS

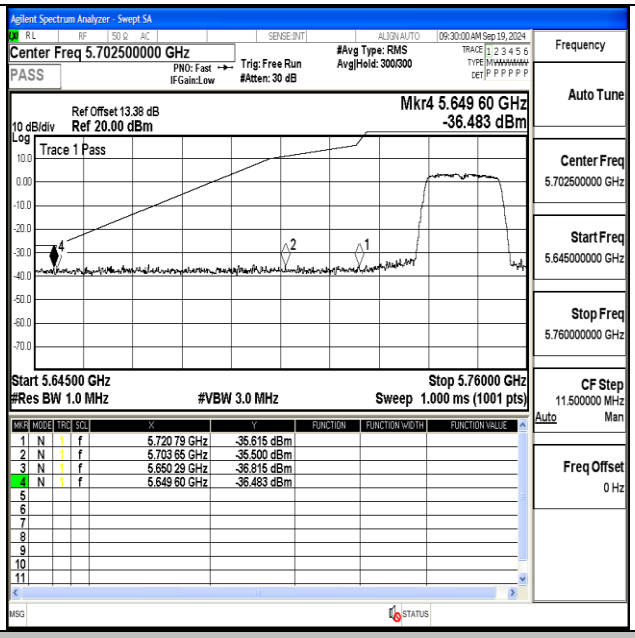
Test Graphs



11A-Ant1-5745-PASS



11A-Ant1-5825-PASS



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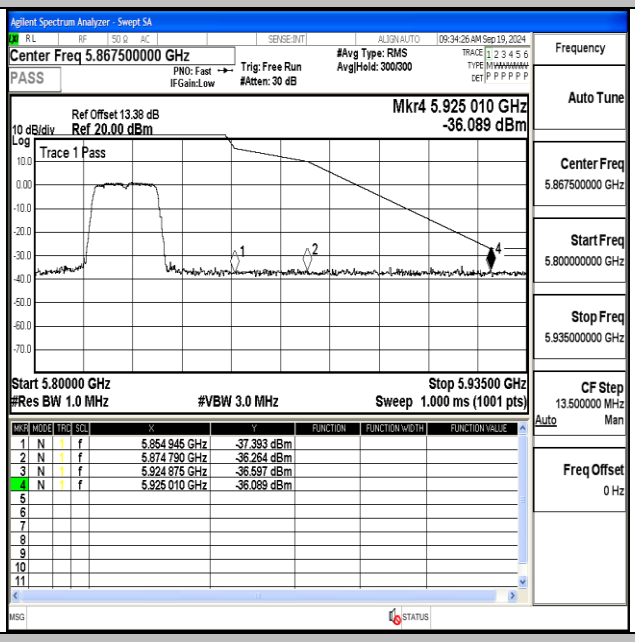

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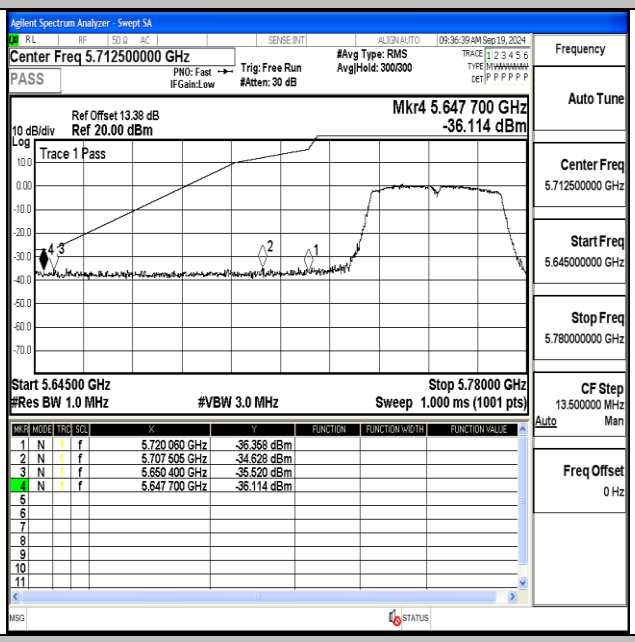
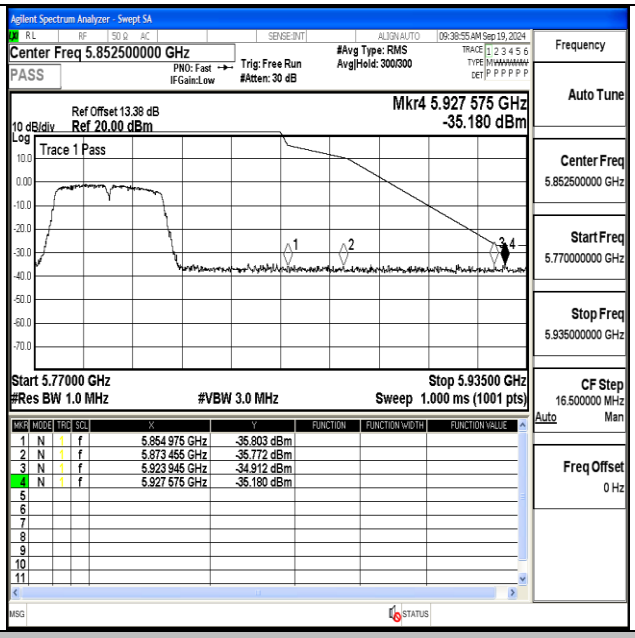


11N40SISO-Ant1-5755-PASS



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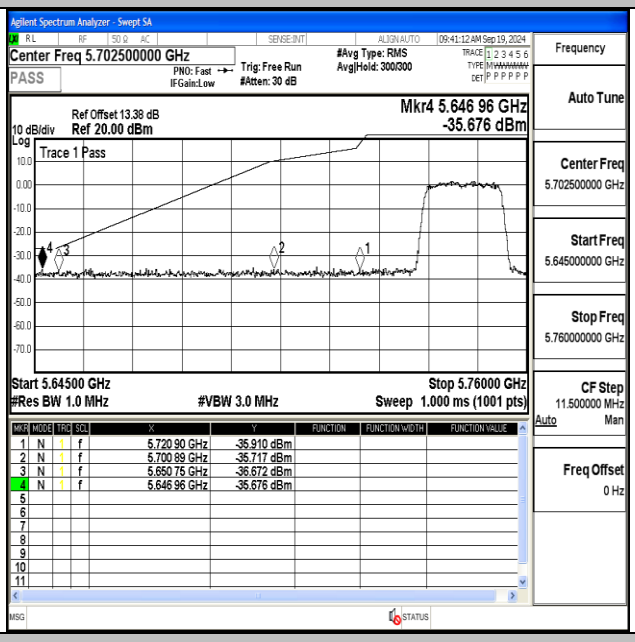

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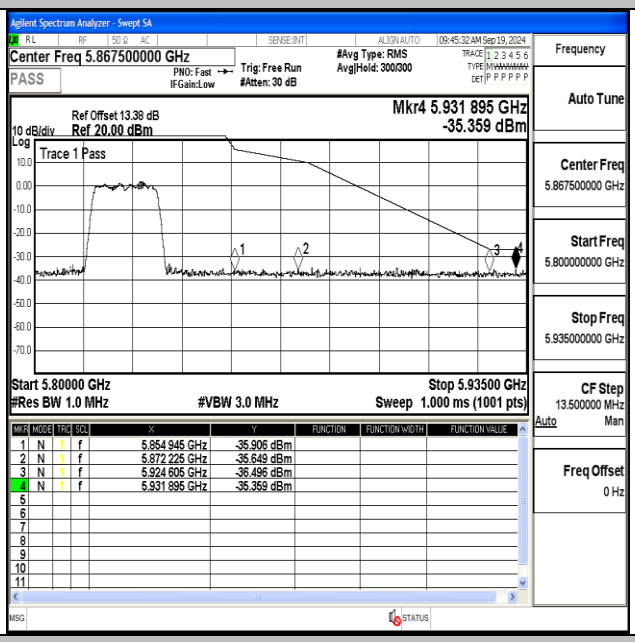
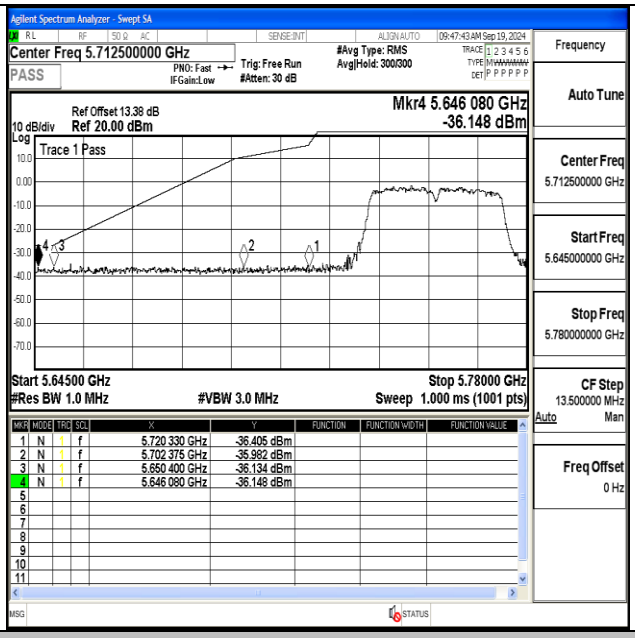


11AC20SISO-Ant1-5825-PASS



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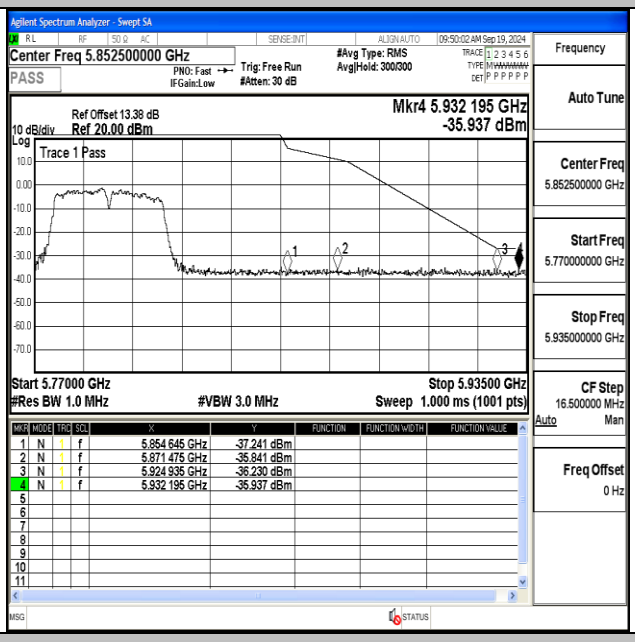

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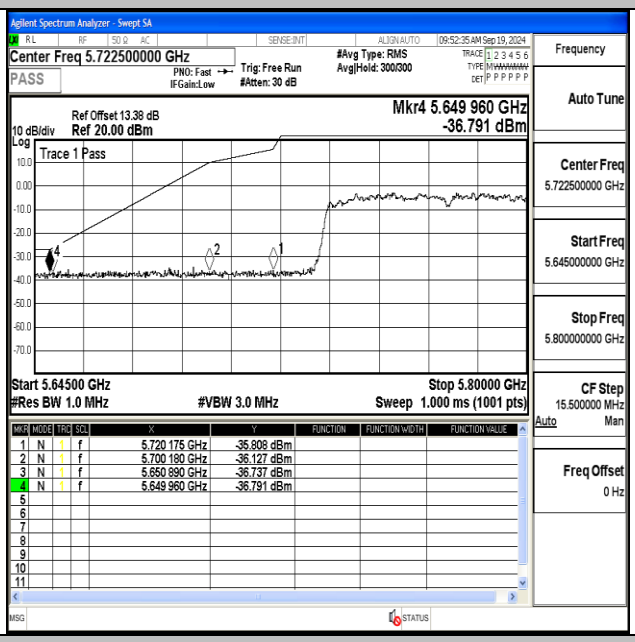
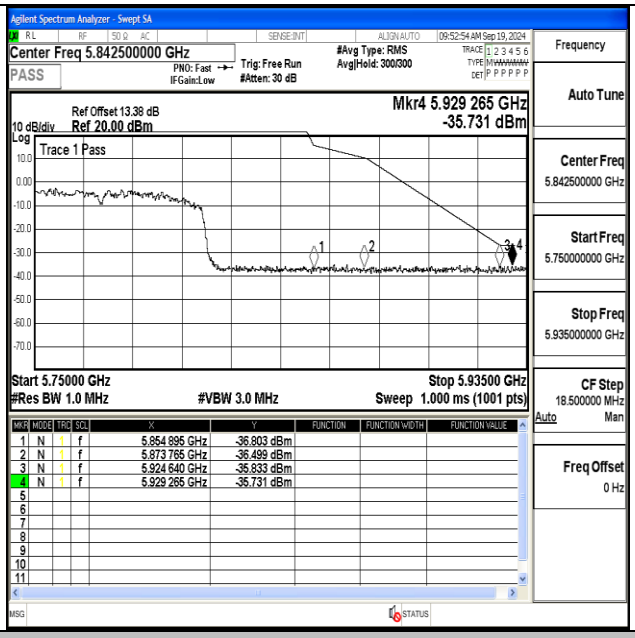


11AC80SISO-Ant1-5775-PASS



11AC80SISO-Ant1-5775-PASS

Appendix E: Frequency Stability

Test Result

Ant1

Frequency (MHz)	Enviroment Temperature (Degree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5745	20	132	5744.900978	5745 – 5825	PASS
5745	20	108	5745.041039	5745 – 5825	PASS
5745	50	120	5744.933548	5745 – 5825	PASS
5745	40	120	5745.050945	5745 – 5825	PASS
5745	30	120	5745.009926	5745 – 5825	PASS
5745	20	120	5744.907202	5745 – 5825	PASS
5745	10	120	5745.076732	5745 – 5825	PASS
5745	0	120	5745.084333	5745 – 5825	PASS
5745	-10	120	5744.903159	5745 – 5825	PASS
5745	-20	120	5745.033055	5745 – 5825	PASS
5745	-30	120	5745.059729	5745 – 5825	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5785	20	132	5784.918658	5745 – 5825	PASS
5785	20	108	5784.976167	5745 – 5825	PASS
5785	50	120	5785.027551	5745 – 5825	PASS
5785	40	120	5784.962090	5745 – 5825	PASS
5785	30	120	5784.990629	5745 – 5825	PASS
5785	20	120	5784.998354	5745 – 5825	PASS
5785	10	120	5785.012681	5745 – 5825	PASS
5785	0	120	5785.059765	5745 – 5825	PASS
5785	-10	120	5784.912339	5745 – 5825	PASS
5785	-20	120	5785.074352	5745 – 5825	PASS
5785	-30	120	5784.912952	5745 – 5825	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5825	20	132	5824.902968	5745 – 5825	PASS
5825	20	108	5824.910994	5745 – 5825	PASS
5825	50	120	5824.955446	5745 – 5825	PASS
5825	40	120	5824.950636	5745 – 5825	PASS
5825	30	120	5824.982370	5745 – 5825	PASS
5825	20	120	5825.085909	5745 – 5825	PASS
5825	10	120	5824.906989	5745 – 5825	PASS
5825	0	120	5825.008848	5745 – 5825	PASS
5825	-10	120	5824.975844	5745 – 5825	PASS
5825	-20	120	5824.953194	5745 – 5825	PASS
5825	-30	120	5825.032182	5745 – 5825	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5755	20	132	5755.085781	5745 – 5825	PASS
5755	20	108	5755.018576	5745 – 5825	PASS
5755	50	120	5754.997551	5745 – 5825	PASS
5755	40	120	5755.045244	5745 – 5825	PASS
5755	30	120	5755.005085	5745 – 5825	PASS
5755	20	120	5754.993754	5745 – 5825	PASS
5755	10	120	5755.045784	5745 – 5825	PASS
5755	0	120	5754.938192	5745 – 5825	PASS
5755	-10	120	5755.050014	5745 – 5825	PASS
5755	-20	120	5754.939851	5745 – 5825	PASS
5755	-30	120	5755.084397	5745 – 5825	PASS

Ant1

Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5795	20	132	5794.976560	5745 – 5825	PASS
5795	20	108	5794.980464	5745 – 5825	PASS
5795	50	120	5795.053547	5745 – 5825	PASS
5795	40	120	5795.071755	5745 – 5825	PASS
5795	30	120	5794.989789	5745 – 5825	PASS
5795	20	120	5794.909062	5745 – 5825	PASS
5795	10	120	5795.070606	5745 – 5825	PASS
5795	0	120	5794.943231	5745 – 5825	PASS
5795	-10	120	5794.943866	5745 – 5825	PASS
5795	-20	120	5795.024793	5745 – 5825	PASS
5795	-30	120	5795.006434	5745 – 5825	PASS

Ant1

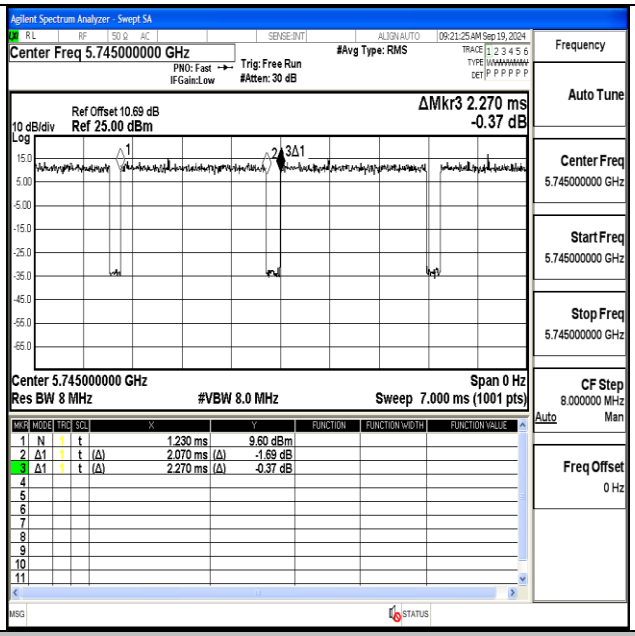
Frequency (MHz)	Enviroment Temperature (Dregree)	Voltage (VAC)	Measured Frequency (MHz)	Limit Range (MHz)	Test Results
5775	20	132	5775.069852	5745 – 5825	PASS
5775	20	108	5774.910218	5745 – 5825	PASS
5775	50	120	5775.038829	5745 – 5825	PASS
5775	40	120	5774.992270	5745 – 5825	PASS
5775	30	120	5774.948452	5745 – 5825	PASS
5775	20	120	5774.953492	5745 – 5825	PASS
5775	10	120	5774.903603	5745 – 5825	PASS
5775	0	120	5774.973904	5745 – 5825	PASS
5775	-10	120	5775.010758	5745 – 5825	PASS
5775	-20	120	5774.908281	5745 – 5825	PASS
5775	-30	120	5775.090681	5745 – 5825	PASS

Appendix F: Duty Cycle

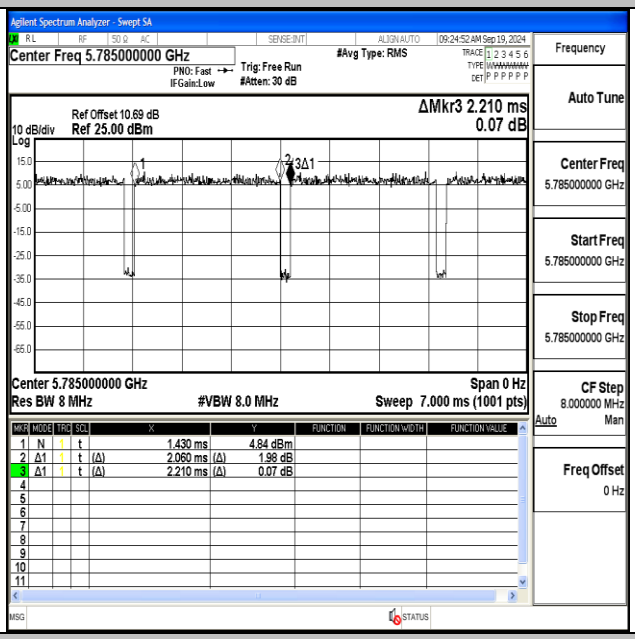
Test Result

Test Mode	Antenna	Frequency [MHz]	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	DC Factor [%]	1/T
11A	Ant1	5745	2.07	2.27	91.19	0.40	0.48
11A	Ant1	5785	2.06	2.21	93.21	0.31	0.49
11A	Ant1	5825	2.06	2.25	91.56	0.38	0.49
11N20SISO	Ant1	5745	1.93	2.74	70.44	1.52	0.52
11N20SISO	Ant1	5785	1.92	2.10	91.43	0.39	0.52
11N20SISO	Ant1	5825	1.93	2.11	91.47	0.39	0.52
11N40SISO	Ant1	5755	0.95	1.15	82.61	0.83	1.05
11N40SISO	Ant1	5795	0.94	1.14	82.46	0.84	1.06
11AC20SISO	Ant1	5745	0.21	0.46	45.65	3.41	4.76
11AC20SISO	Ant1	5785	0.20	0.43	46.51	3.32	5.00
11AC20SISO	Ant1	5825	0.20	0.39	51.28	2.90	5.00
11AC40SISO	Ant1	5755	0.12	0.35	34.29	4.65	8.33
11AC40SISO	Ant1	5795	0.12	0.31	38.71	4.12	8.33
11AC80SISO	Ant1	5775	0.07	0.29	24.14	6.17	14.29

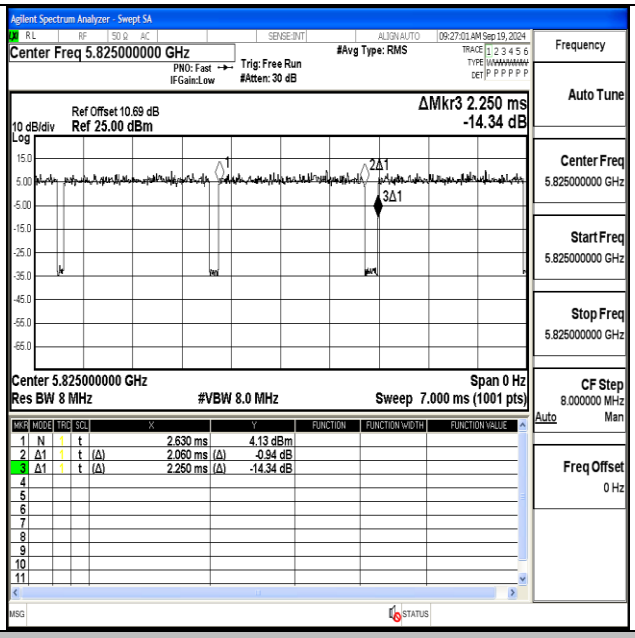
Test Graphs



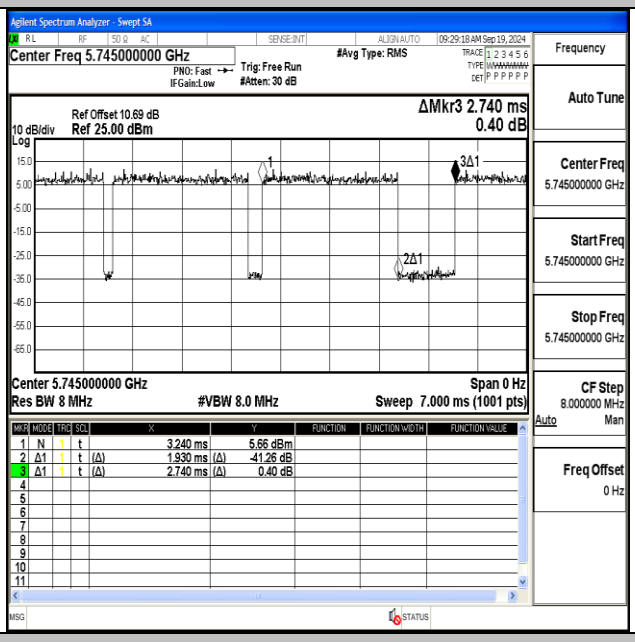
NTNV-11A-Ant1-5745



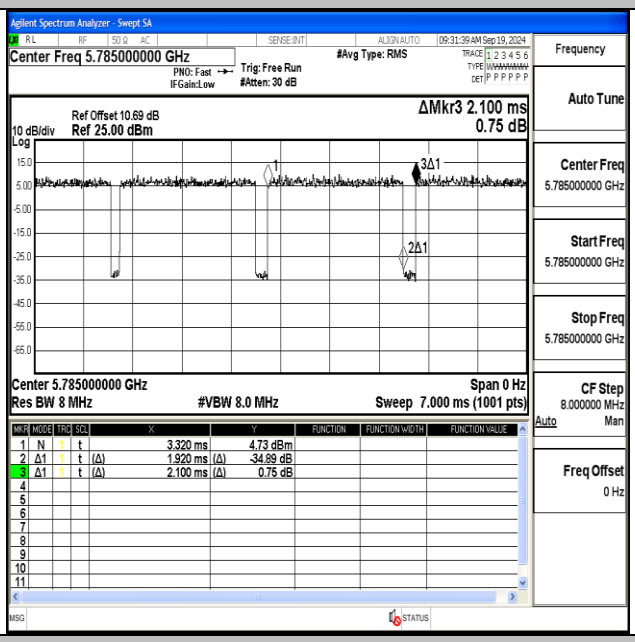
NTNV-11A-Ant1-5785



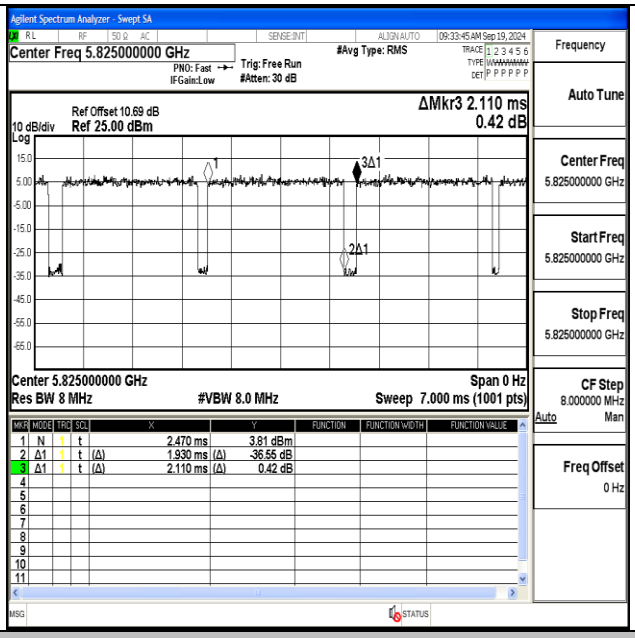
NTNV-11A-Ant1-5825



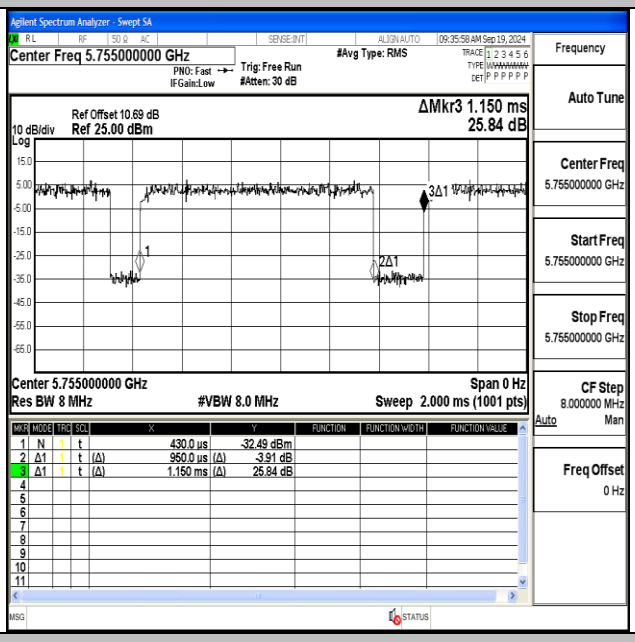
NTNV-11N20SISO-Ant1-5745



NTNV-11N20SISO-Ant1-5785



NTNV-11N20SISO-Ant1-5825



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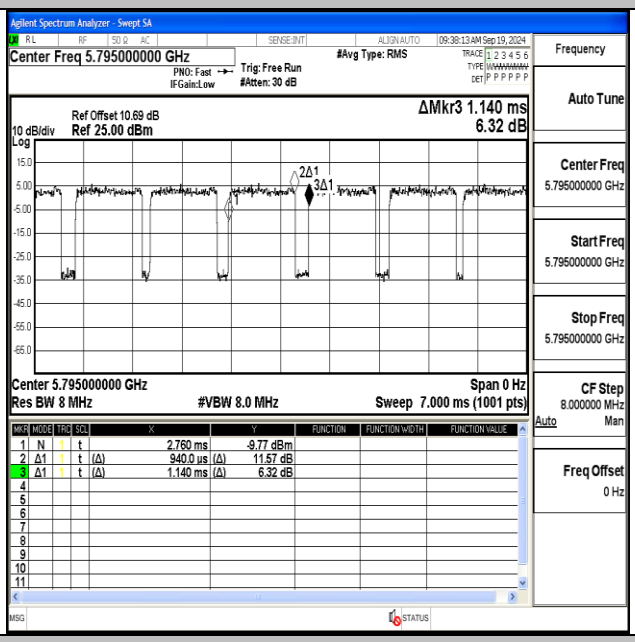

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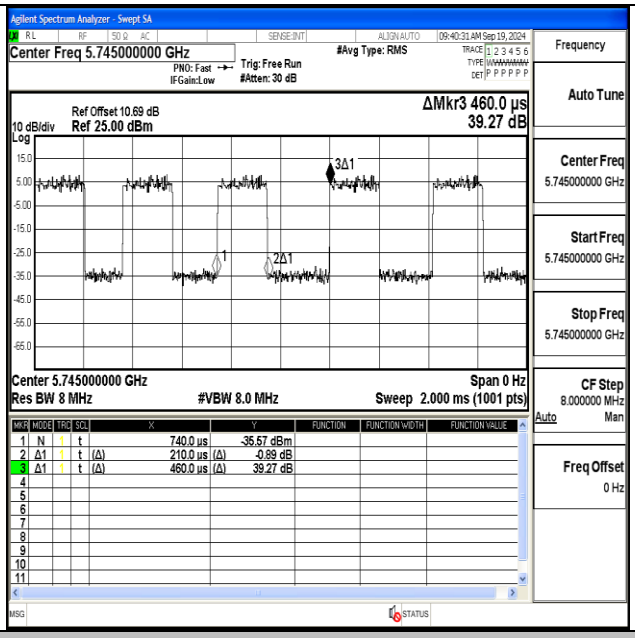

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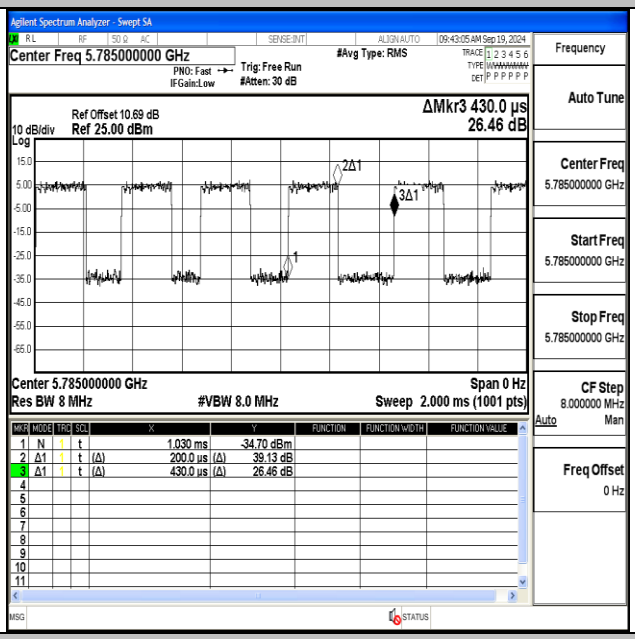

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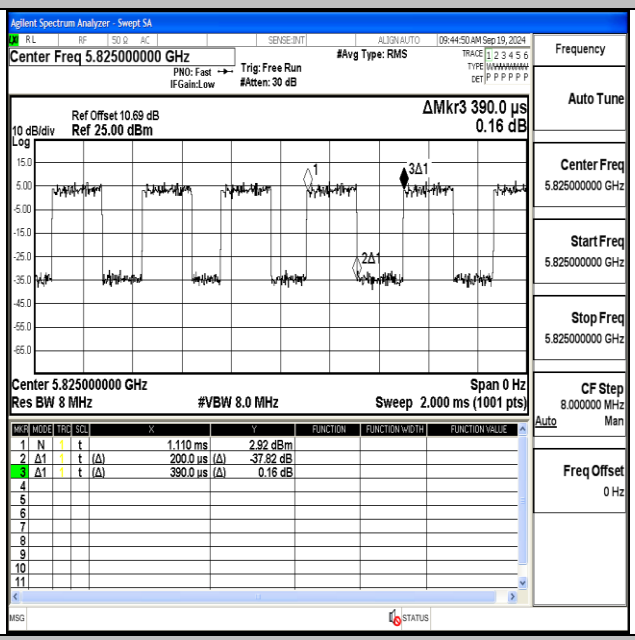

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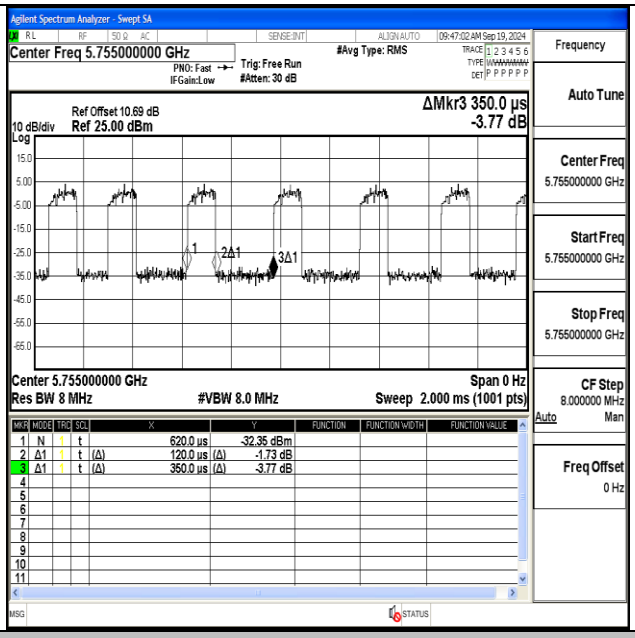

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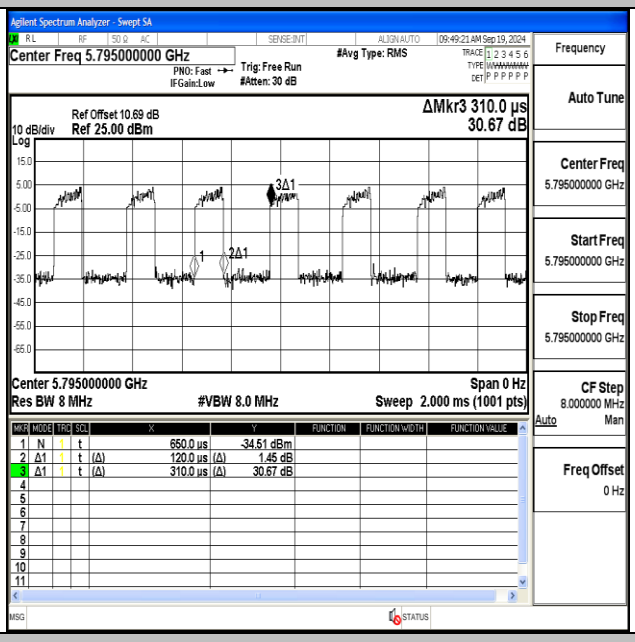

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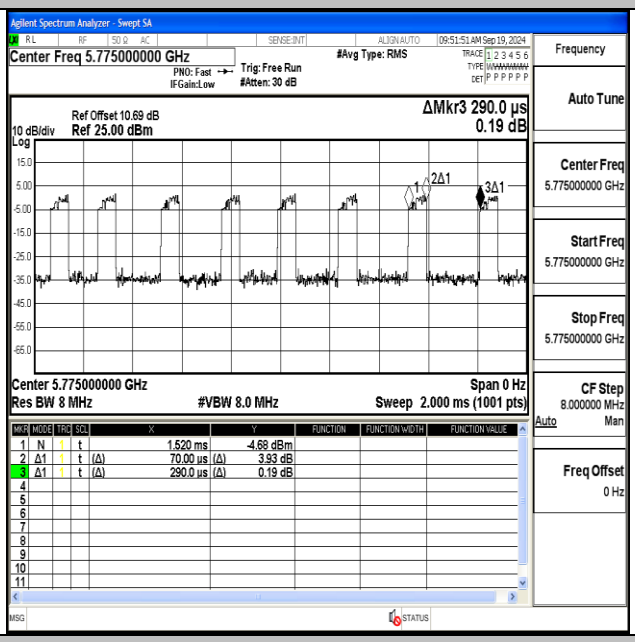

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