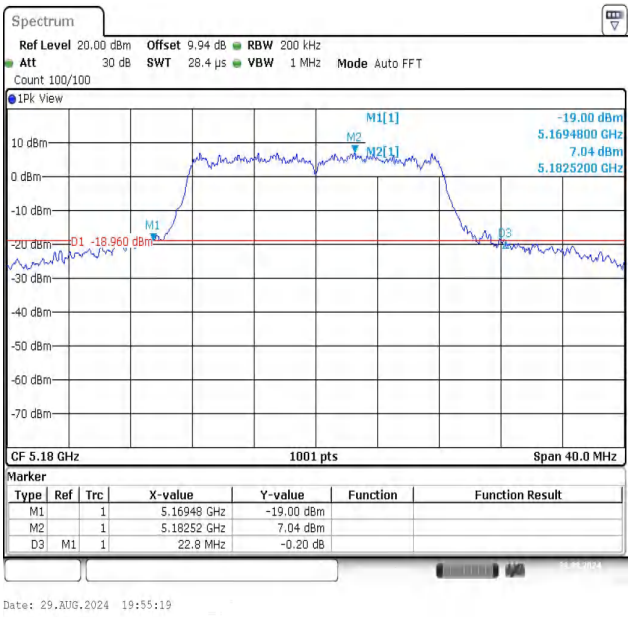
Appendix A1: Emission Bandwidth

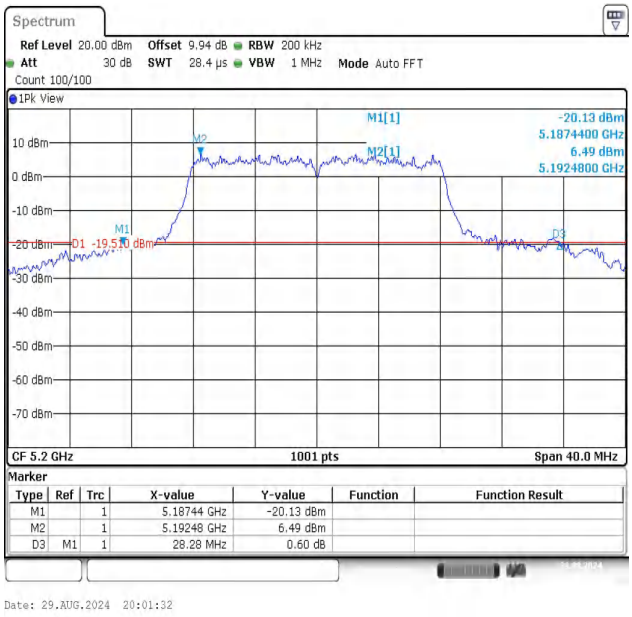
Test Result

TestMode	Antenna	Freq(MHz)	26db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	22.80	5169.48	5192.28	---	---
11A	Ant1	5200	28.28	5187.44	5215.72	---	---
11A	Ant1	5240	26.04	5229.68	5255.72	---	---
11A	Ant1	5745	28.00	5732.72	5760.72	---	---
11A	Ant1	5785	27.36	5771.80	5799.16	---	---
11A	Ant1	5825	26.68	5811.76	5838.44	---	---
11N20SISO	Ant1	5180	25.08	5168.44	5193.52	---	---
11N20SISO	Ant1	5200	28.16	5186.68	5214.84	---	---
11N20SISO	Ant1	5240	26.80	5227.08	5253.88	---	---
11N20SISO	Ant1	5745	33.28	5728.36	5761.64	---	---
11N20SISO	Ant1	5785	27.72	5772.48	5800.20	---	---
11N20SISO	Ant1	5825	29.44	5810.44	5839.88	---	---
11N40SISO	Ant1	5190	47.36	5163.84	5211.20	---	---
11N40SISO	Ant1	5230	50.72	5204.16	5254.88	---	---
11N40SISO	Ant1	5755	60.64	5718.20	5778.84	---	---
11N40SISO	Ant1	5795	59.20	5767.16	5826.36	---	---
11AC80SISO	Ant1	5210	85.28	5167.60	5252.88	---	---
11AC80SISO	Ant1	5775	88.80	5728.92	5817.72	---	---

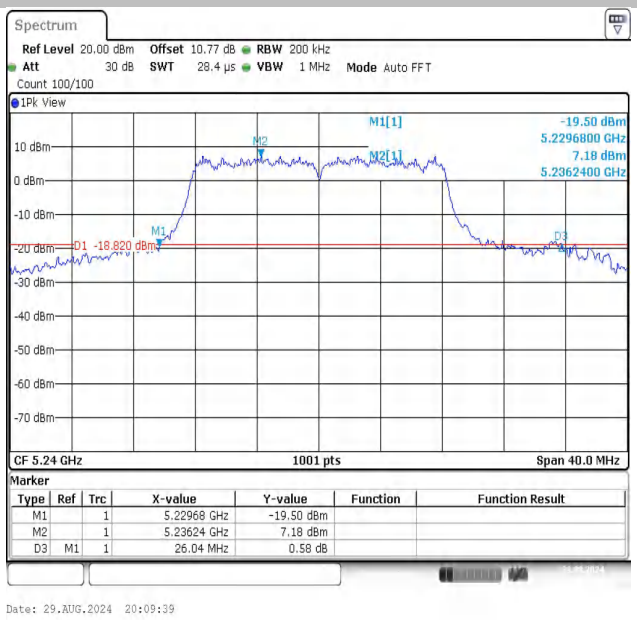
Test Graphs



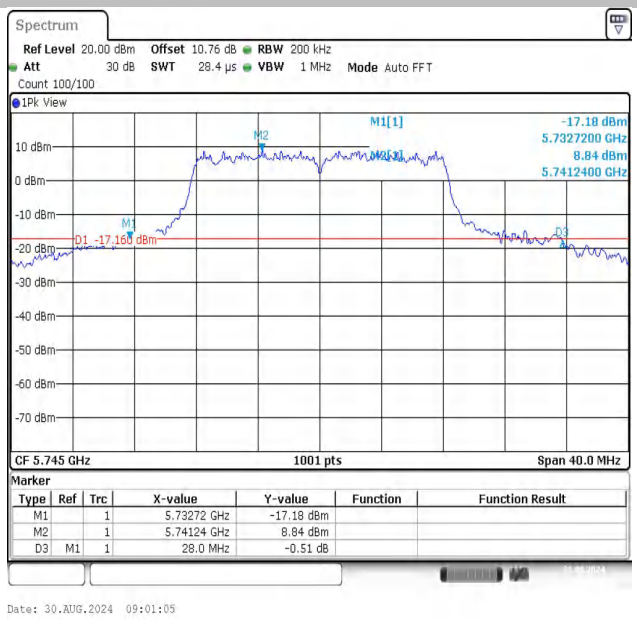
11A-Ant1-5180



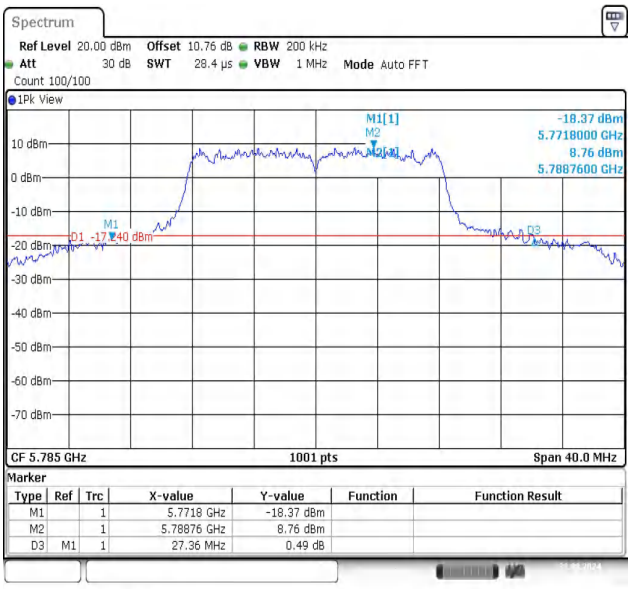
11A-Ant1-5200



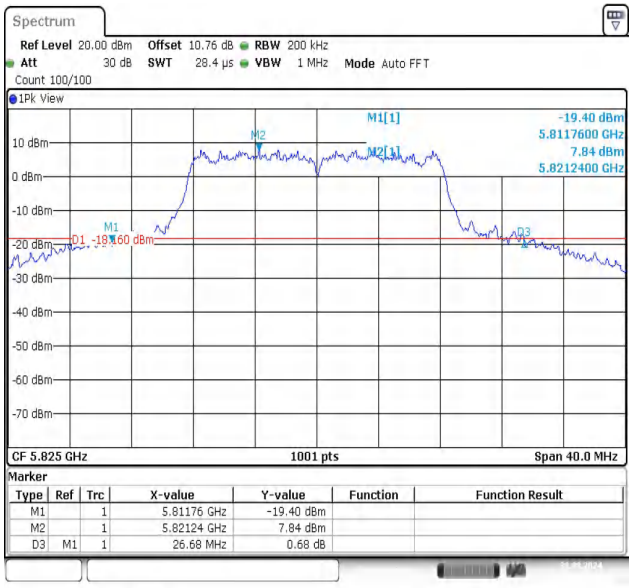
11A-Ant1-5240



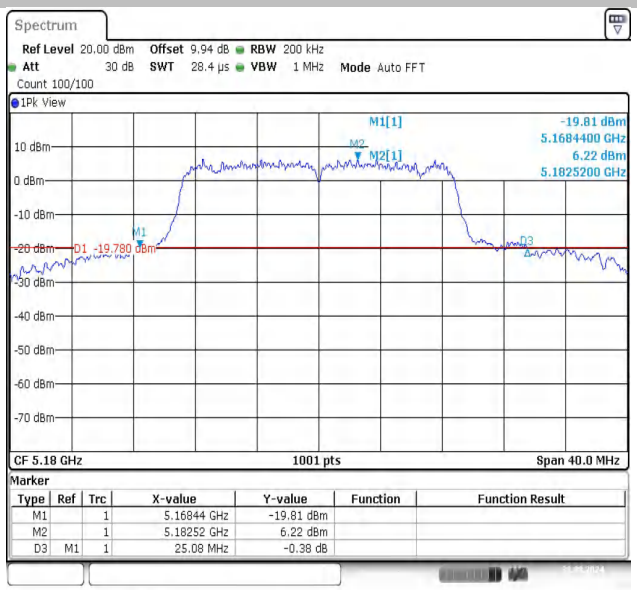
11A-Ant1-5745



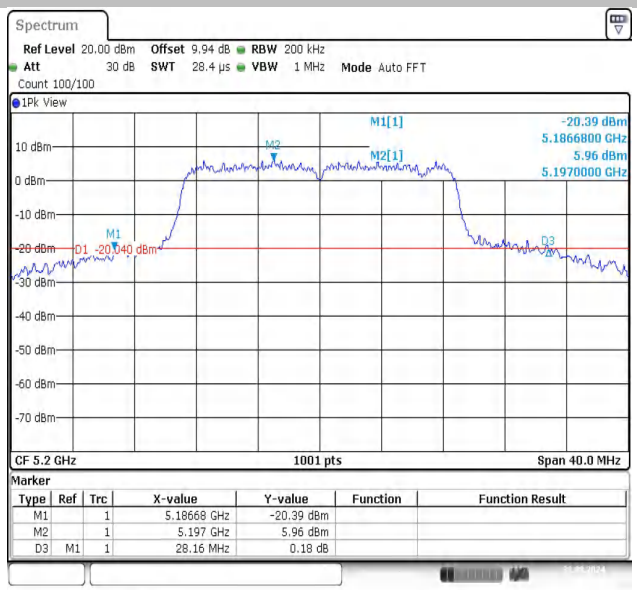
11A-Ant1-5785



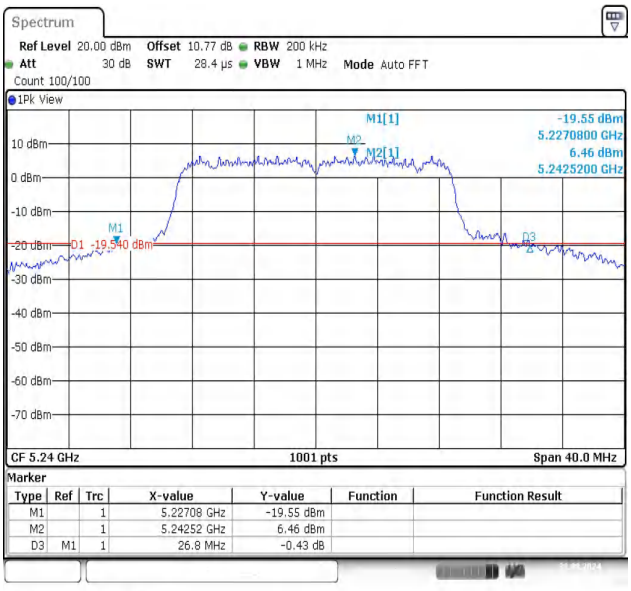
11A-Ant1-5825



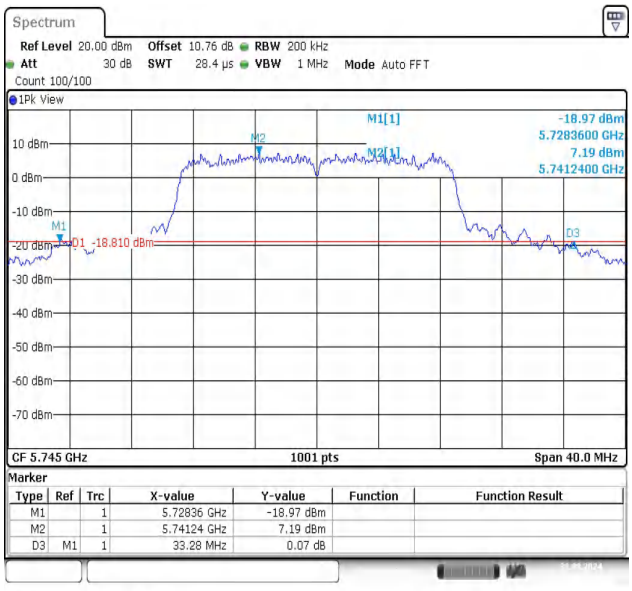
11N20SISO-Ant1-5180



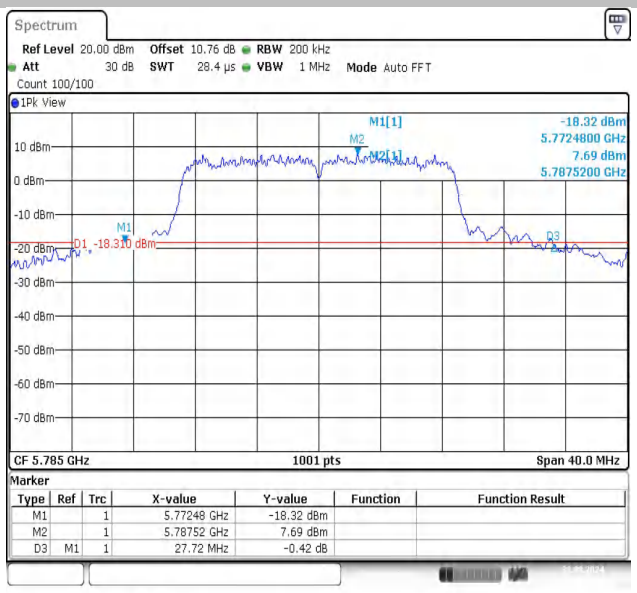
11N20SISO-Ant1-5200



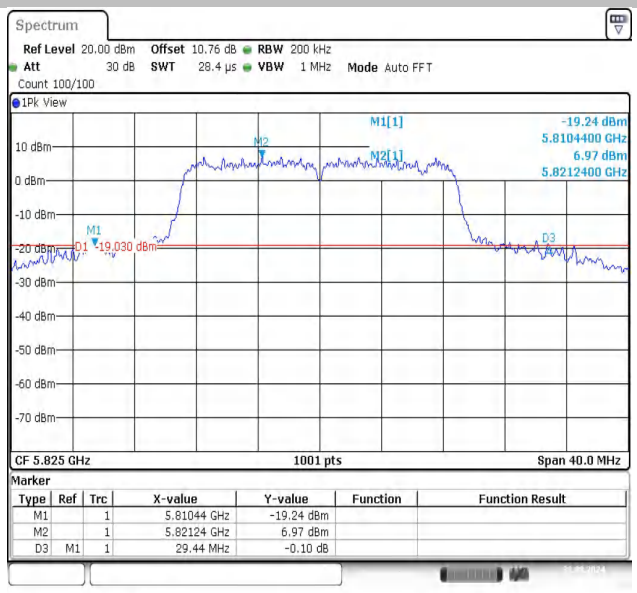
11N20SISO-Ant1-5240



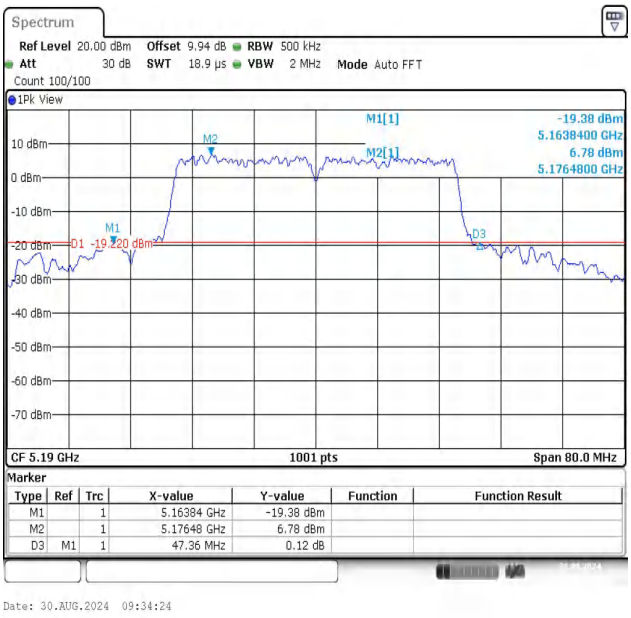
11N20SISO-Ant1-5745



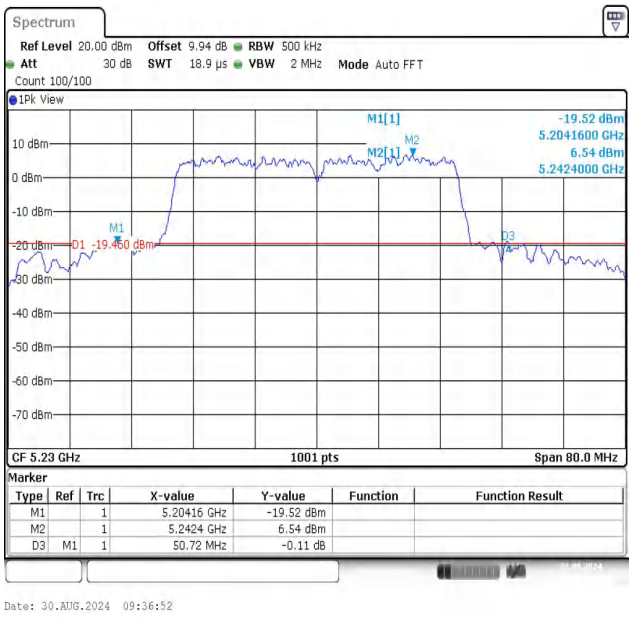
11N20SISO-Ant1-5785



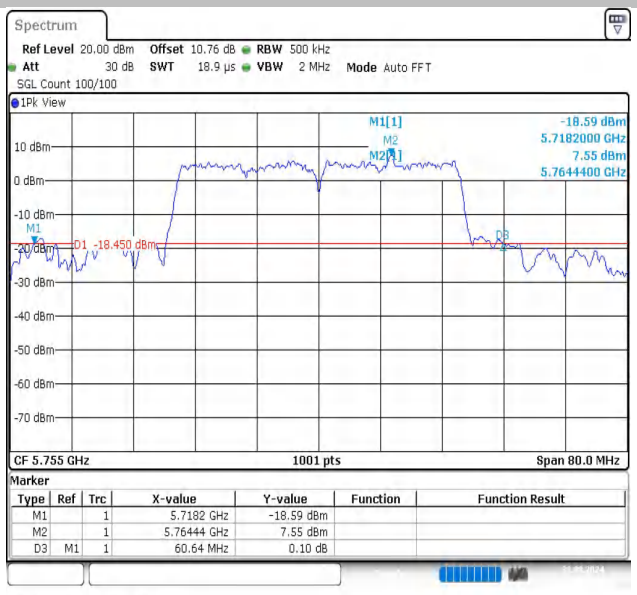
11N20SISO-Ant1-5825



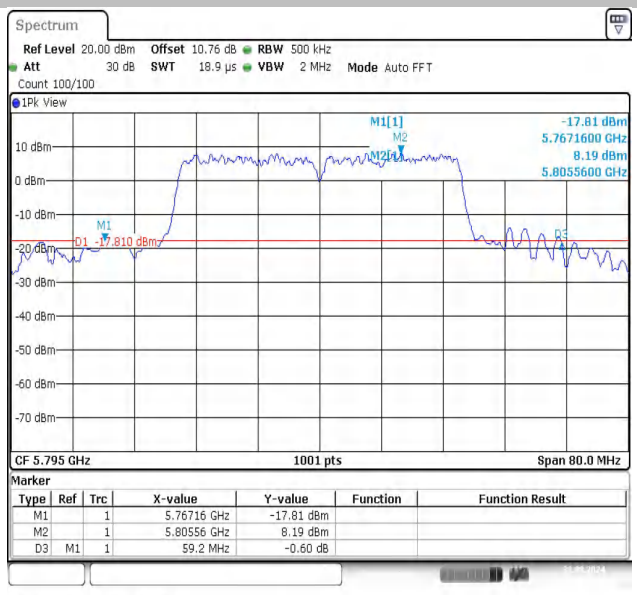
11N40SISO-Ant1-5190



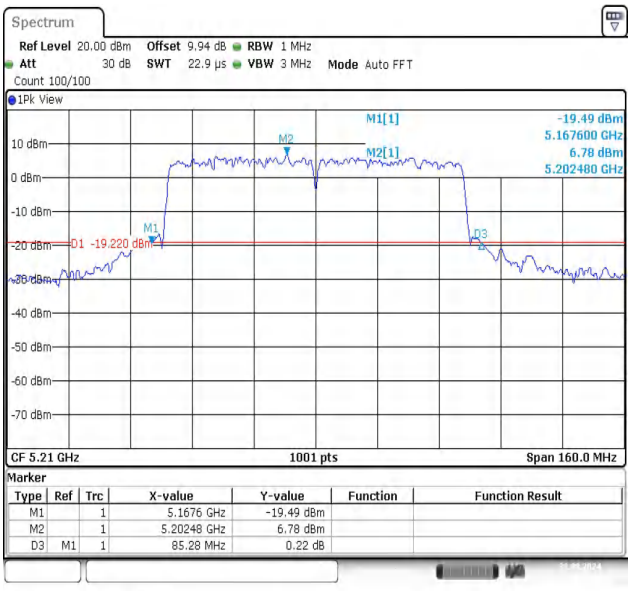
11N40SISO-Ant1-5230



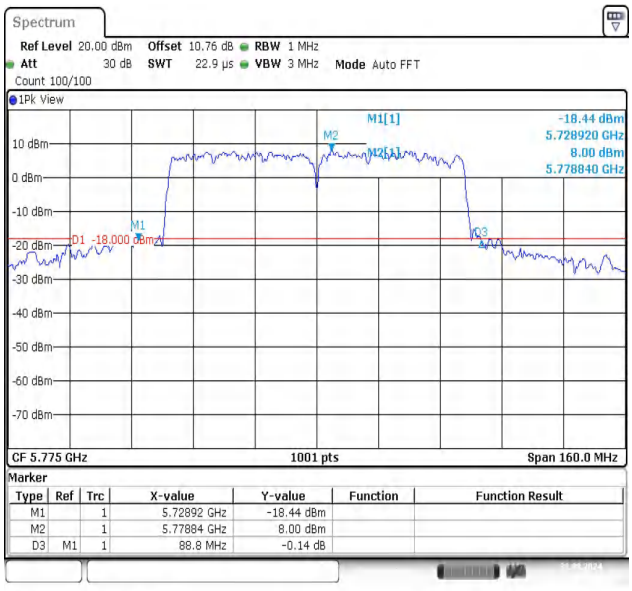
11N40SISO-Ant1-5755



11N40SISO-Ant1-5795



11AC80SISO-Ant1-5210



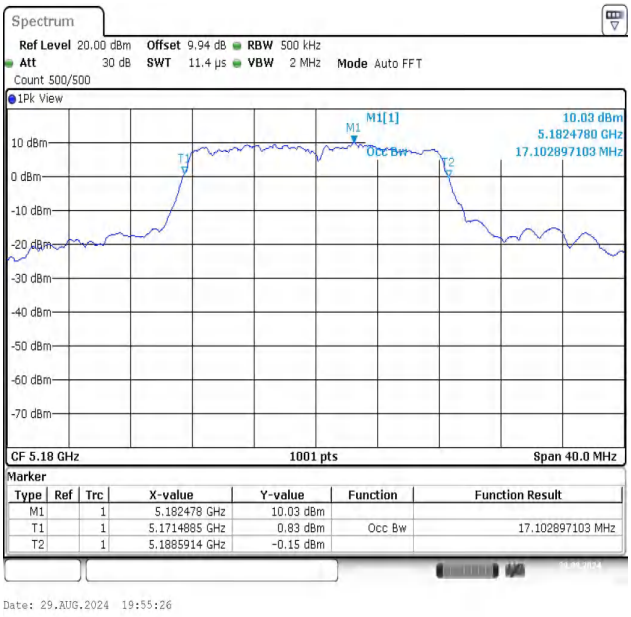
11AC80SISO-Ant1-5775

Appendix A2: Occupied channel bandwidth

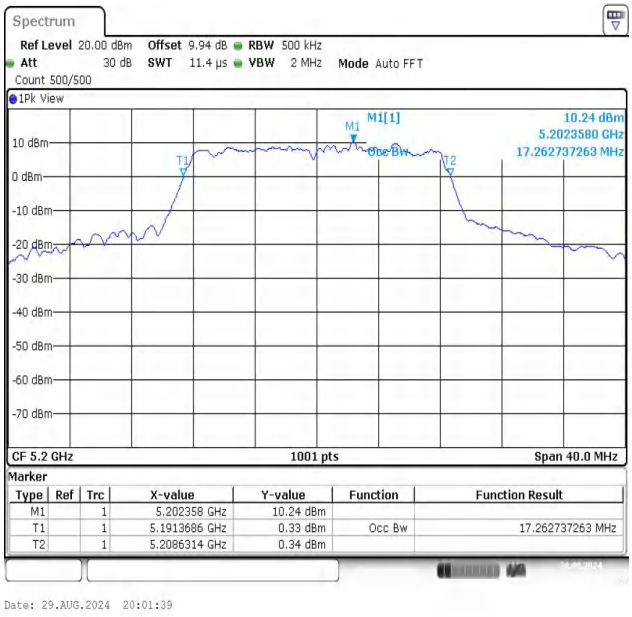
Test Result

Test Mode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5180	17.103	5171.4885	5188.5914	---	---
11A	Ant1	5200	17.263	5191.3686	5208.6314	---	---
11A	Ant1	5240	17.143	5231.4885	5248.6314	---	---
11A	Ant1	5745	17.383	5736.3686	5753.7512	---	---
11A	Ant1	5785	17.303	5776.3686	5793.6713	---	---
11A	Ant1	5825	17.463	5816.2887	5833.7512	---	---
11N20SISO	Ant1	5180	17.942	5171.0090	5188.9510	---	---
11N20SISO	Ant1	5200	17.982	5191.0889	5209.0709	---	---
11N20SISO	Ant1	5240	17.862	5231.0490	5248.9111	---	---
11N20SISO	Ant1	5745	18.102	5735.9690	5754.0709	---	---
11N20SISO	Ant1	5785	18.142	5776.0490	5794.1908	---	---
11N20SISO	Ant1	5825	18.302	5815.7293	5834.0310	---	---
11N40SISO	Ant1	5190	36.843	5171.5385	5208.3816	---	---
11N40SISO	Ant1	5230	36.843	5211.5385	5248.3816	---	---
11N40SISO	Ant1	5755	36.683	5736.8581	5773.5415	---	---
11N40SISO	Ant1	5795	37.003	5776.4585	5813.4615	---	---
11AC80SISO	Ant1	5210	76.244	5171.7982	5248.0420	---	---
11AC80SISO	Ant1	5775	76.084	5736.7982	5812.8821	---	---

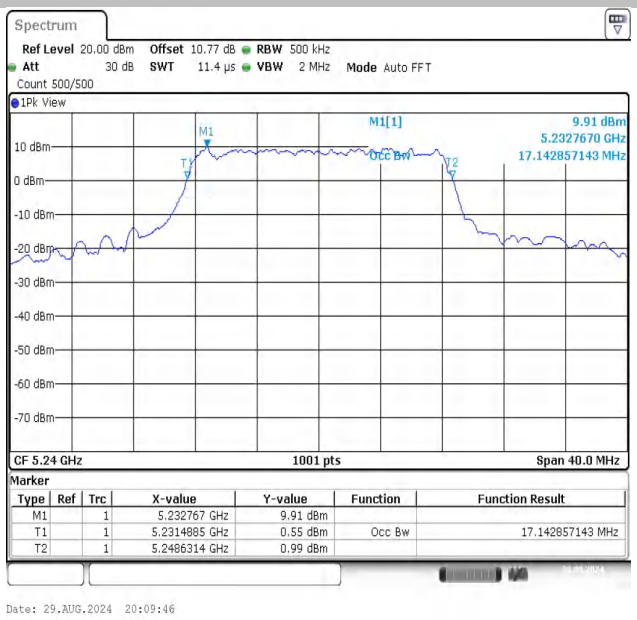
Test Graphs



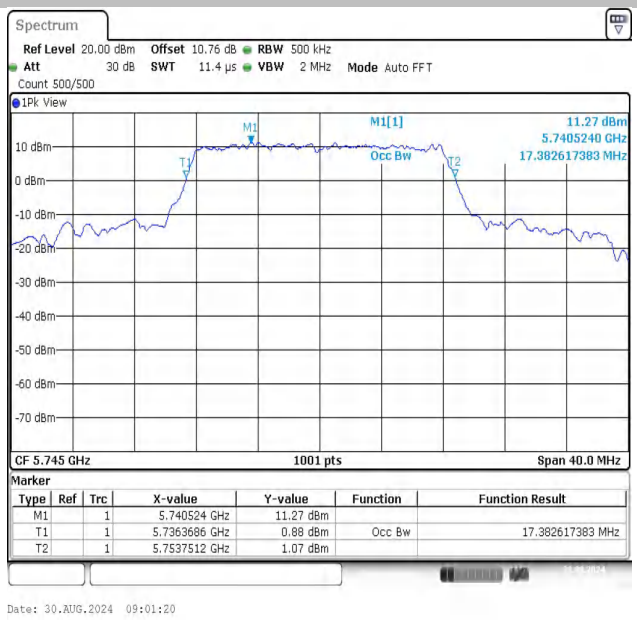
11A-Ant1-5180



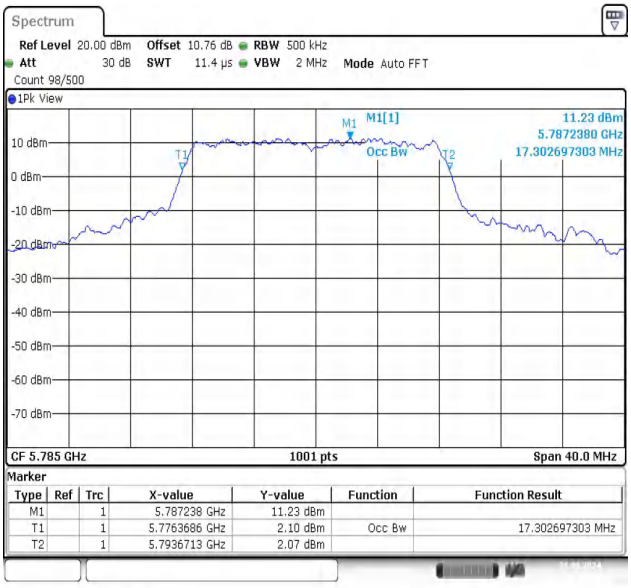
11A-Ant1-5200



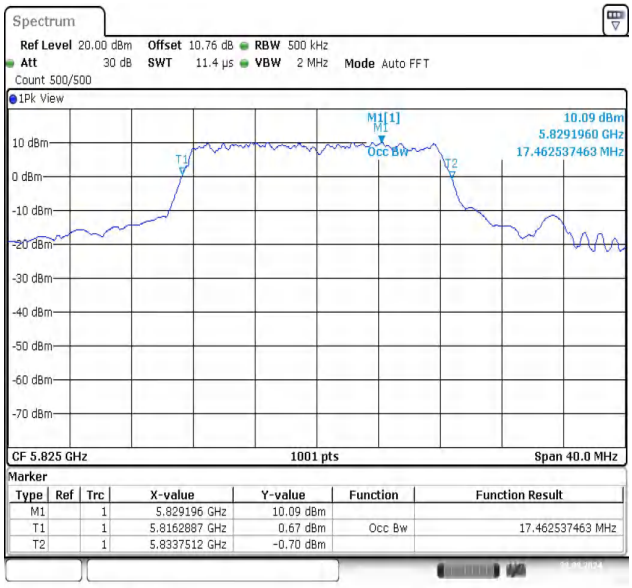
11A-Ant1-5240



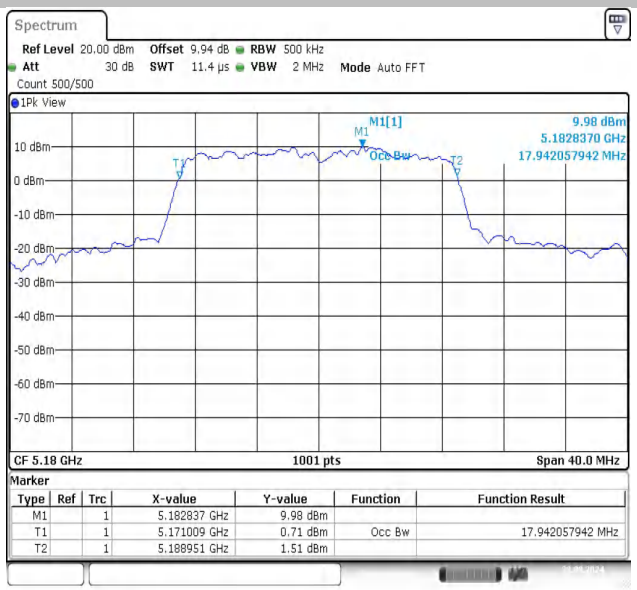
11A-Ant1-5745



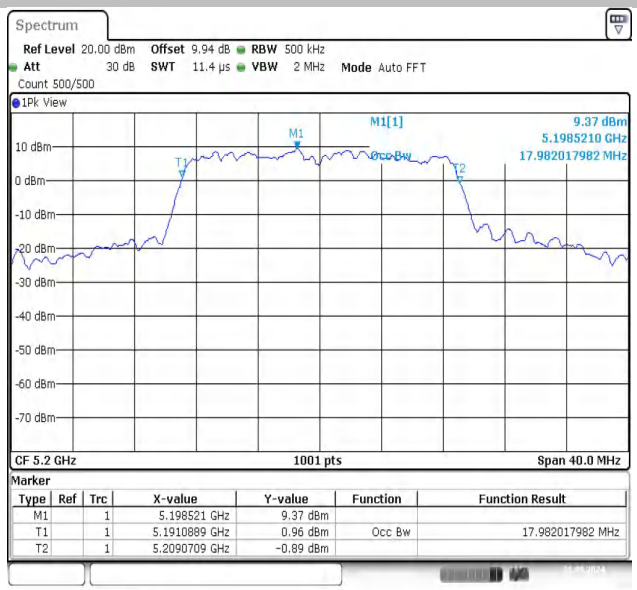
11A-Ant1-5785



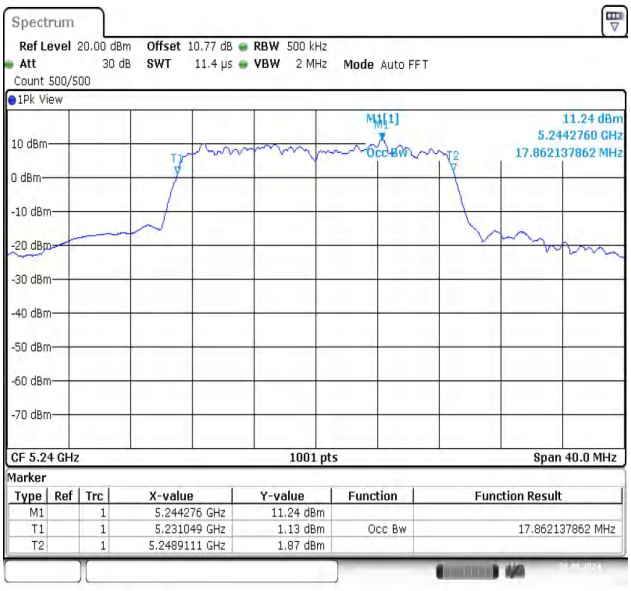
11A-Ant1-5825



11N20SISO-Ant1-5180

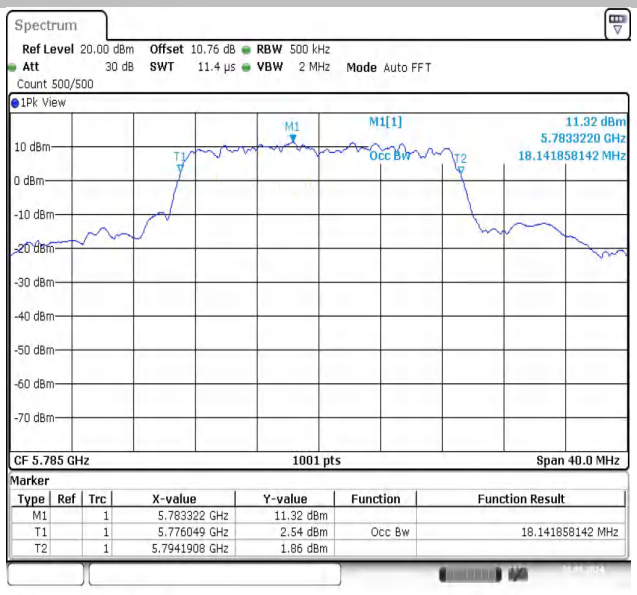


11N20SISO-Ant1-5200



11N20SISO-Ant1-5240

11N20SISO-Ant1-5745



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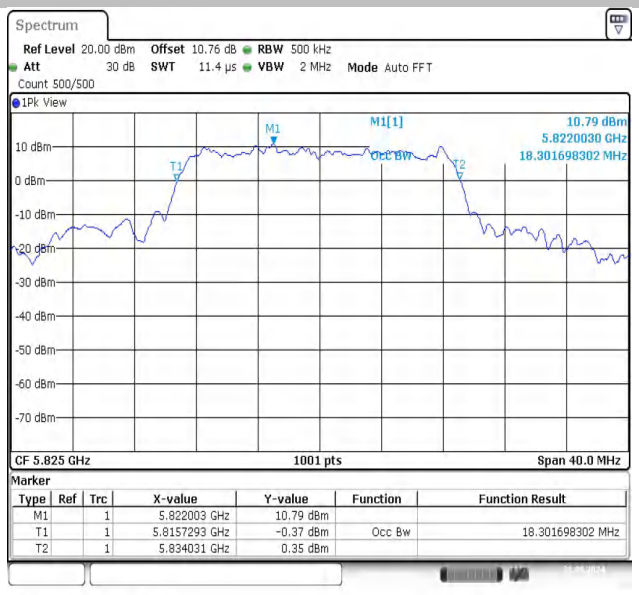
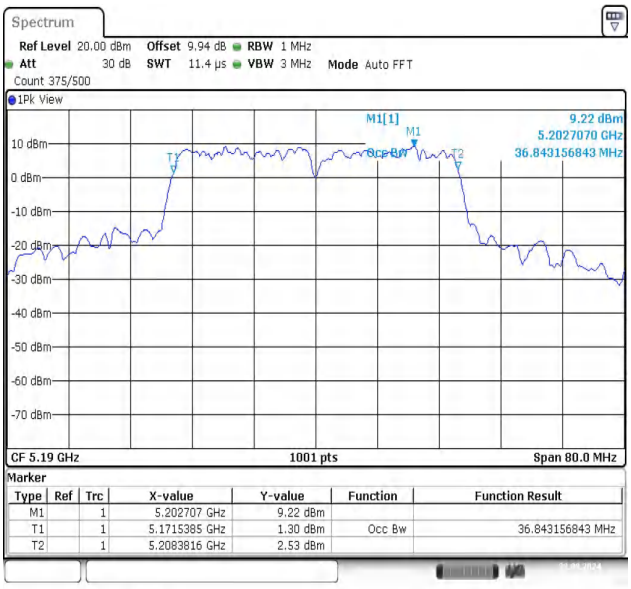
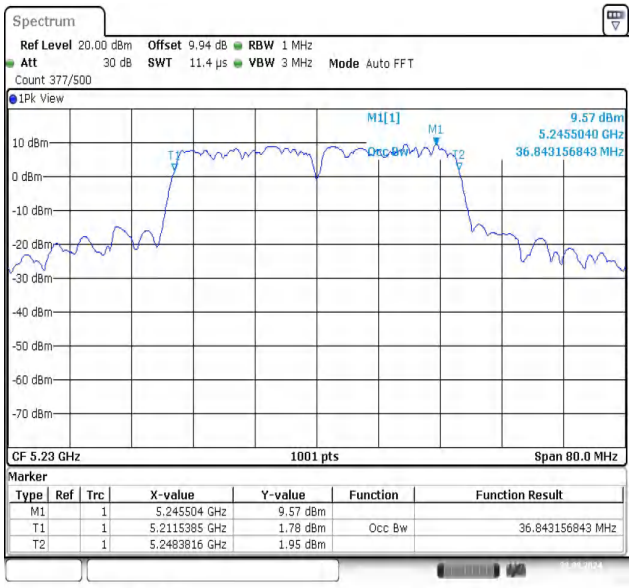


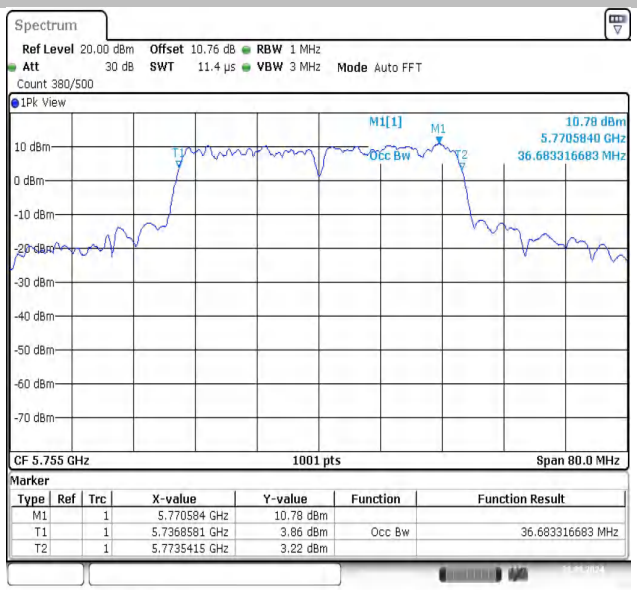
11N20SISO-Ant1-5825



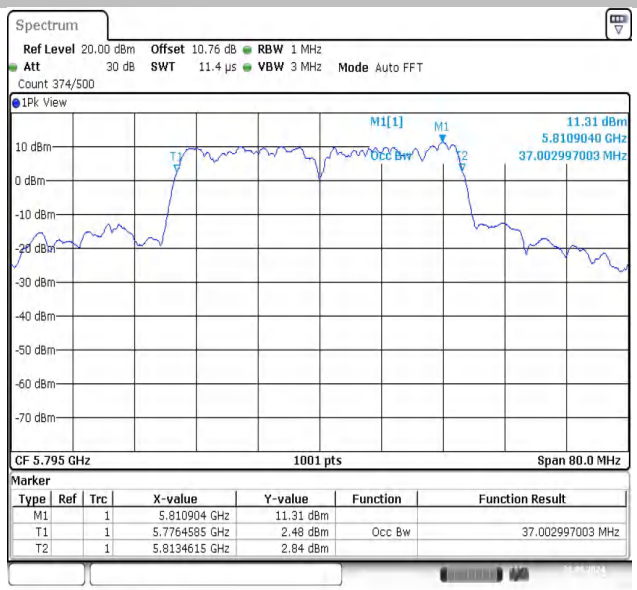
11N40SISO-Ant1-5190



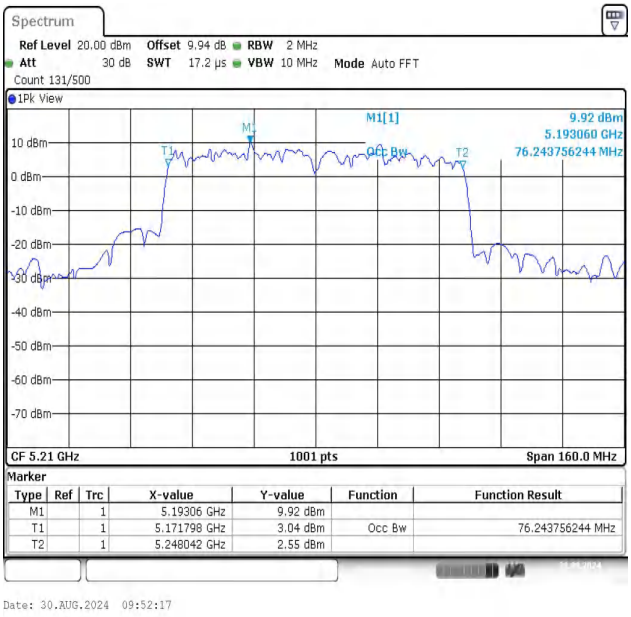
11N40SISO-Ant1-5230



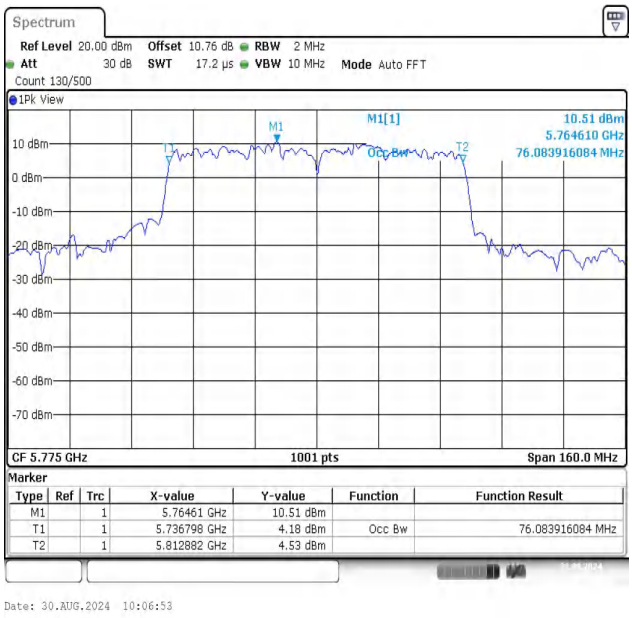
11N40SISO-Ant1-5755



11N40SISO-Ant1-5795



11AC80SISO-Ant1-5210



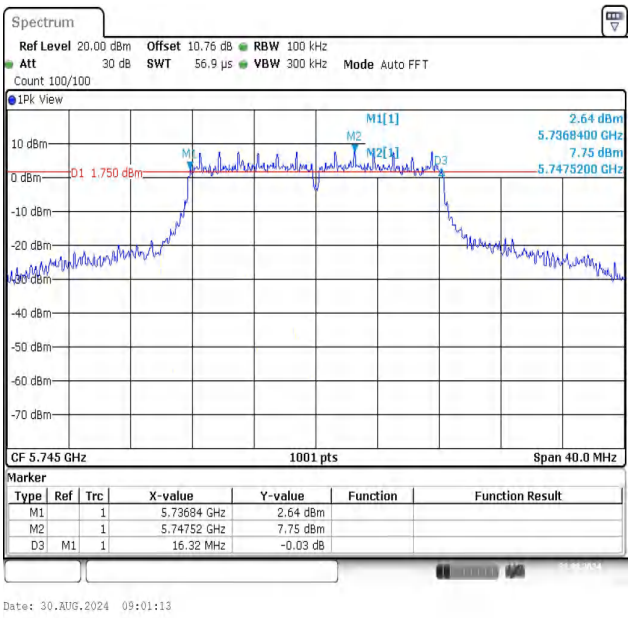
11AC80SISO-Ant1-5775

Appendix A3: Min emission bandwidth

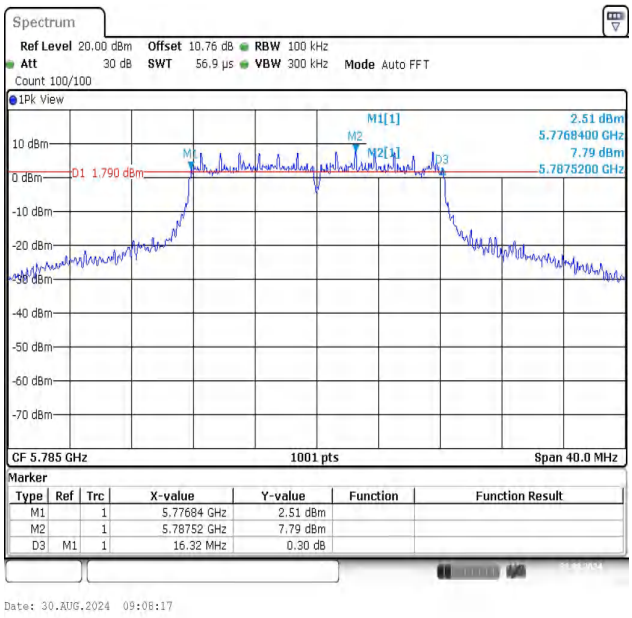
Test Result B4

TestMode	Antenna	Freq(MHz)	6db EBW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
11A	Ant1	5745	16.32	5736.84	5753.16	0.5	PASS
11A	Ant1	5785	16.32	5776.84	5793.16	0.5	PASS
11A	Ant1	5825	16.32	5816.84	5833.16	0.5	PASS
11N20SISO	Ant1	5745	17.16	5736.48	5753.64	0.5	PASS
11N20SISO	Ant1	5785	17.12	5776.52	5793.64	0.5	PASS
11N20SISO	Ant1	5825	17.28	5816.36	5833.64	0.5	PASS
11N40SISO	Ant1	5755	36.08	5737.16	5773.24	0.5	PASS
11N40SISO	Ant1	5795	36.00	5777.08	5813.08	0.5	PASS
11AC80SISO	Ant1	5775	75.36	5737.24	5812.60	0.5	PASS

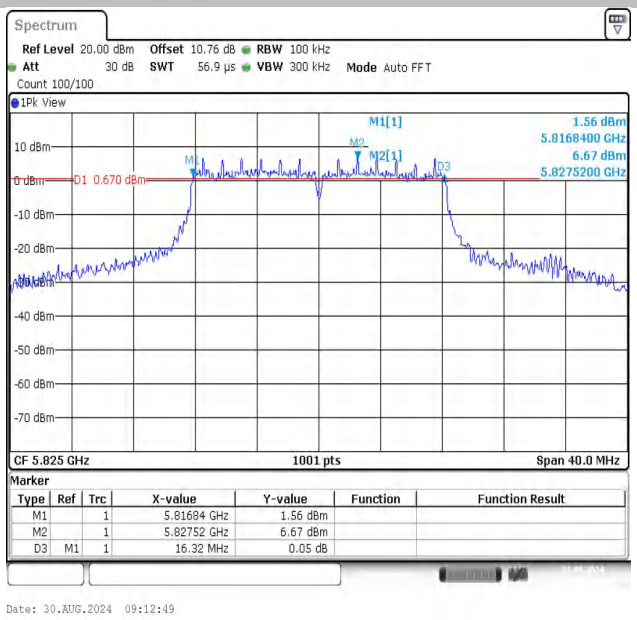
Test Graphs B4



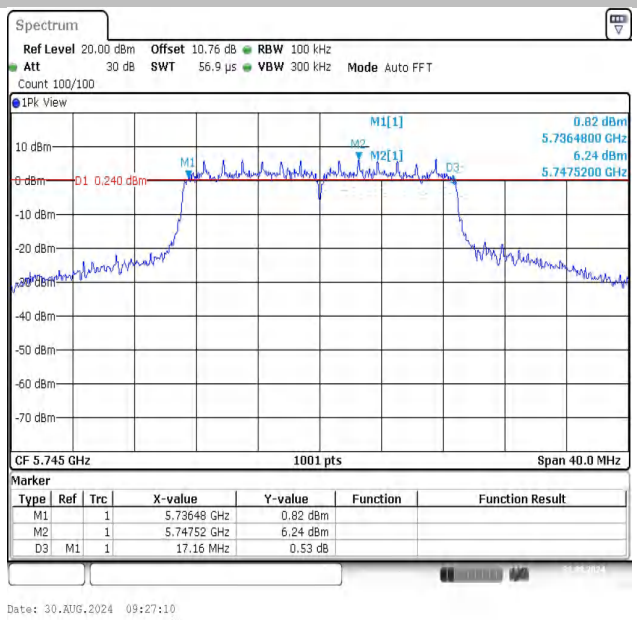
11A-Ant1-5745-PASS



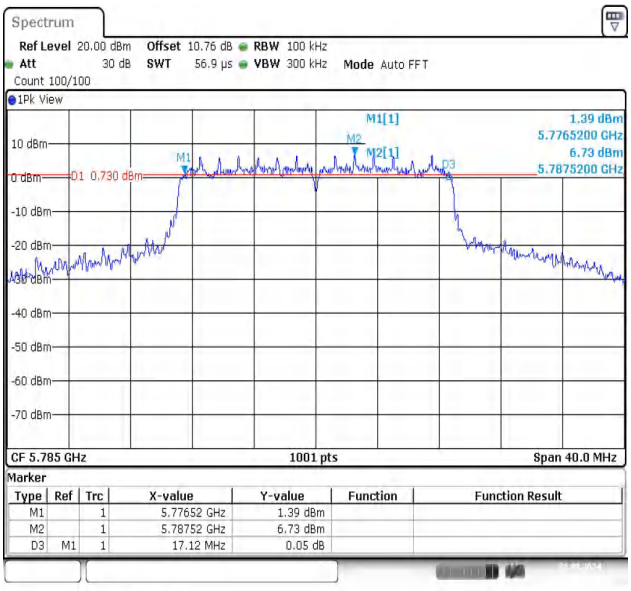
11A-Ant1-5785-PASS



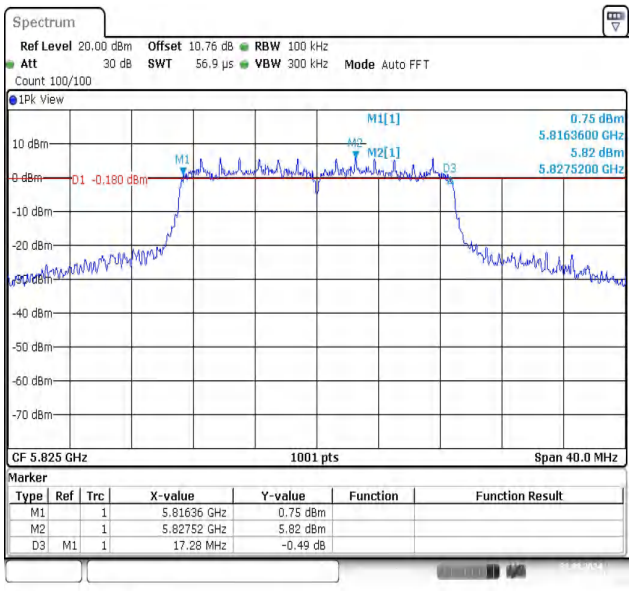
11A-Ant1-5825-PASS



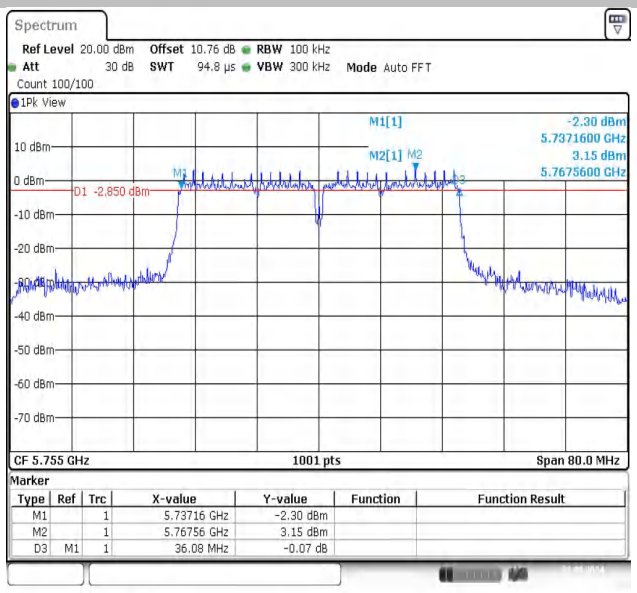
11N20SISO-Ant1-5745-PASS



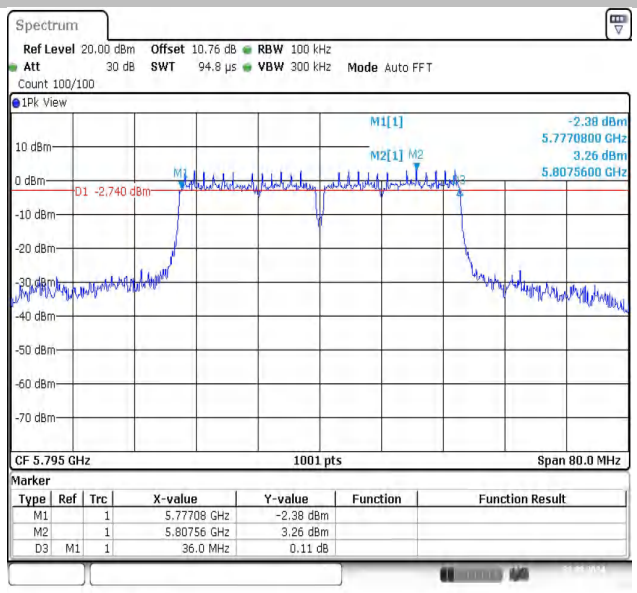
11N20SISO-Ant1-5785-PASS



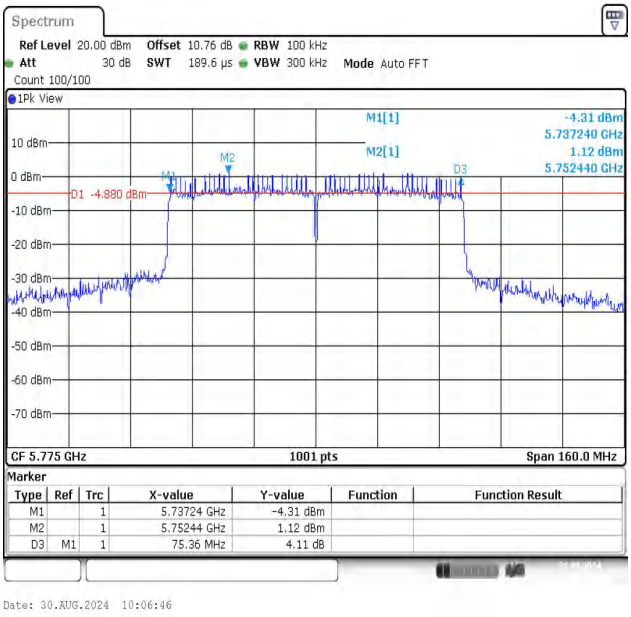
11N20SISO-Ant1-5825-PASS



11N40SISO-Ant1-5755-PASS



11N40SISO-Ant1-5795-PASS



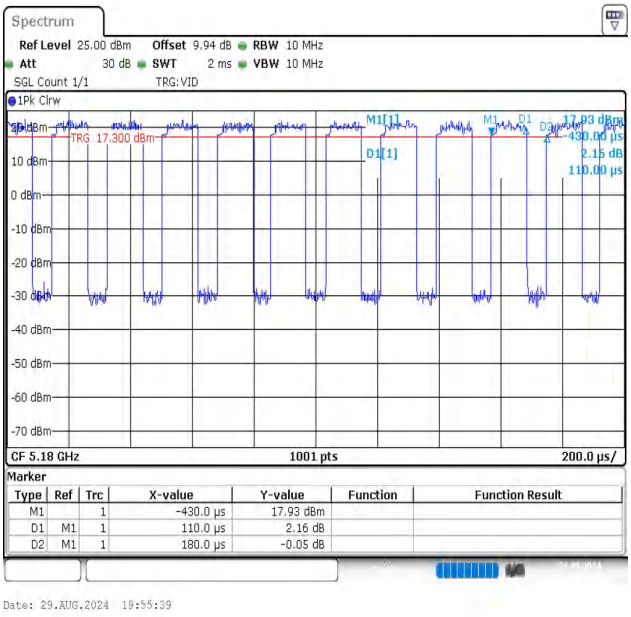
11AC80SISO-Ant1-5775-PASS

Appendix B: Duty Cycle

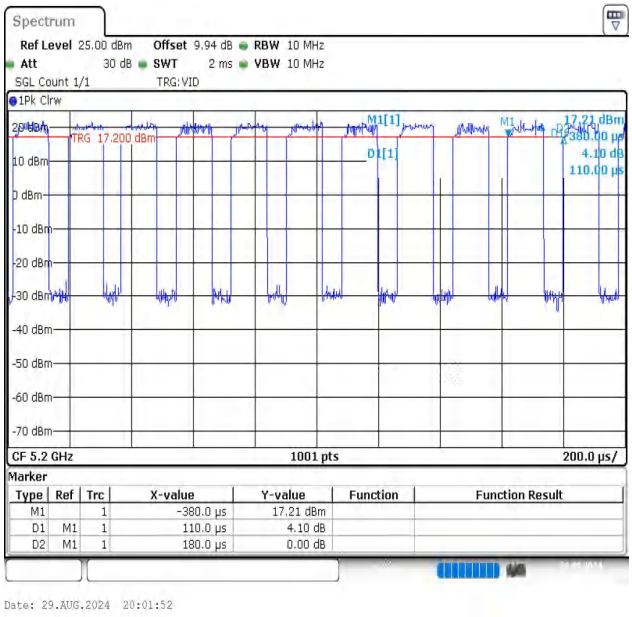
Test Result

TestMode	Antenna	Freq(MHz)	Transmission Duration [ms]	Transmission Period [ms]	Duty Cycle [%]	Limit	Verdict
11A	Ant1	5180	0.11	0.18	61.11	---	---
11A	Ant1	5200	0.11	0.18	61.11	---	---
11A	Ant1	5240	0.12	0.18	66.67	---	---
11A	Ant1	5745	0.11	0.18	61.11	---	---
11A	Ant1	5785	0.12	0.18	66.67	---	---
11A	Ant1	5825	0.12	0.18	66.67	---	---
11N20SISO	Ant1	5180	0.11	0.18	61.11	---	---
11N20SISO	Ant1	5200	0.11	0.18	61.11	---	---
11N20SISO	Ant1	5240	0.11	0.18	61.11	---	---
11N20SISO	Ant1	5745	0.12	0.18	66.67	---	---
11N20SISO	Ant1	5785	0.11	0.17	64.71	---	---
11N20SISO	Ant1	5825	0.12	0.18	66.67	---	---
11N40SISO	Ant1	5190	0.08	0.14	57.14	---	---
11N40SISO	Ant1	5230	0.08	0.14	57.14	---	---
11N40SISO	Ant1	5755	0.07	0.14	50.00	---	---
11N40SISO	Ant1	5795	0.08	0.14	57.14	---	---
11AC80SISO	Ant1	5210	0.06	0.12	50.00	---	---
11AC80SISO	Ant1	5775	0.06	0.12	50.00	---	---

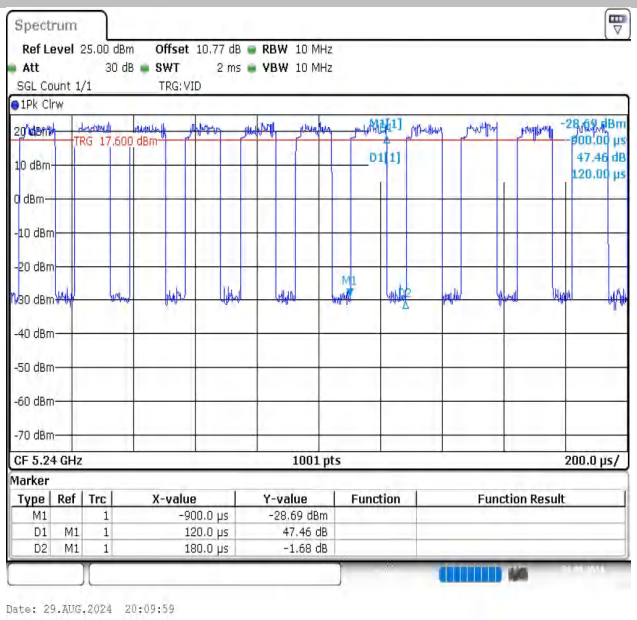
Test Graphs



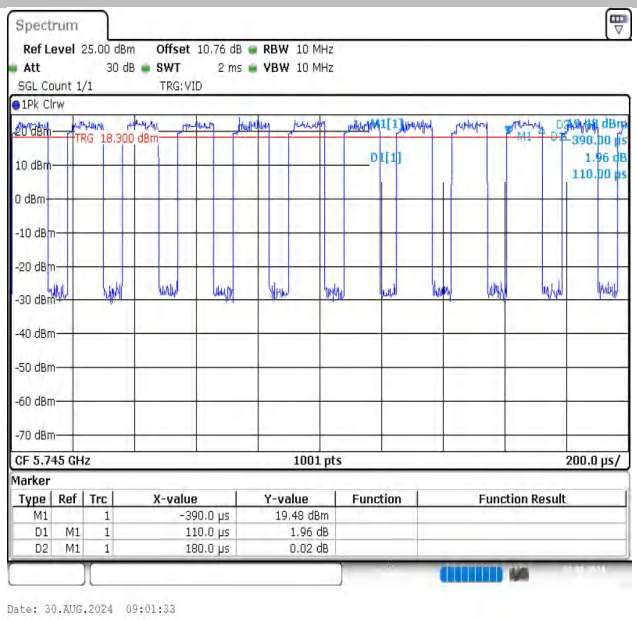
NTNV-11A-Ant1-5180



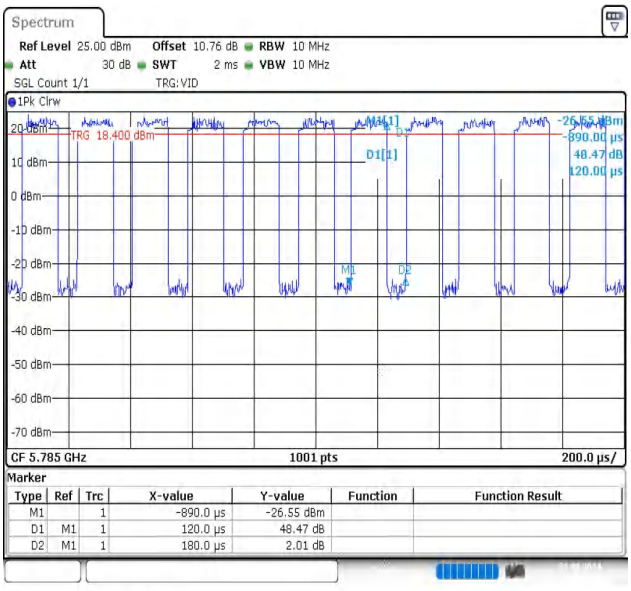
NTNV-11A-Ant1-5200



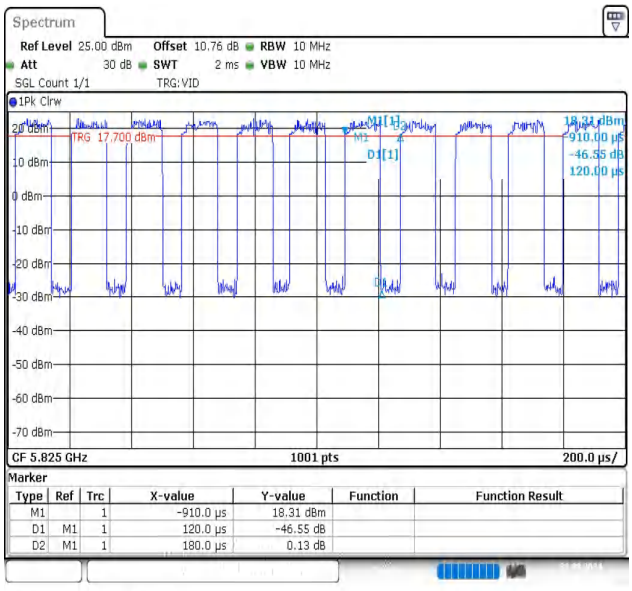
NTNV-11A-Ant1-5240



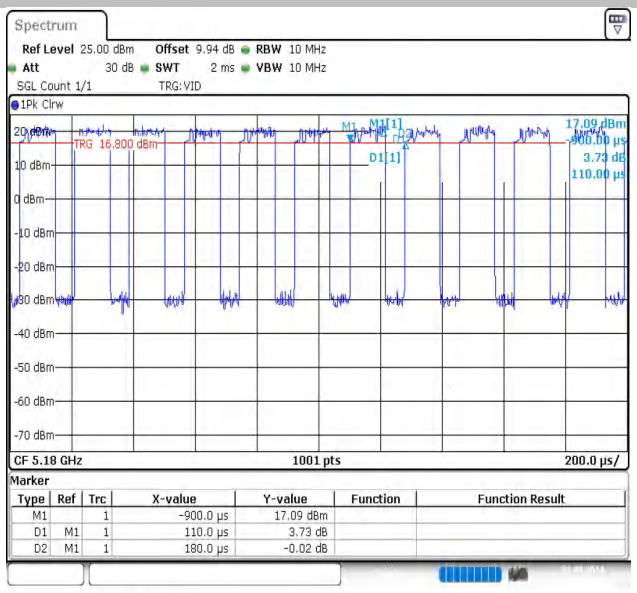
NTNV-11A-Ant1-5745



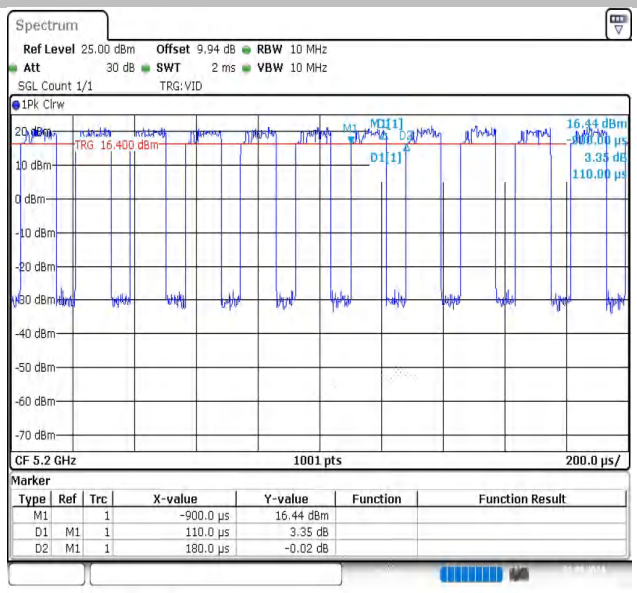
NTNV-11A-Ant1-5785



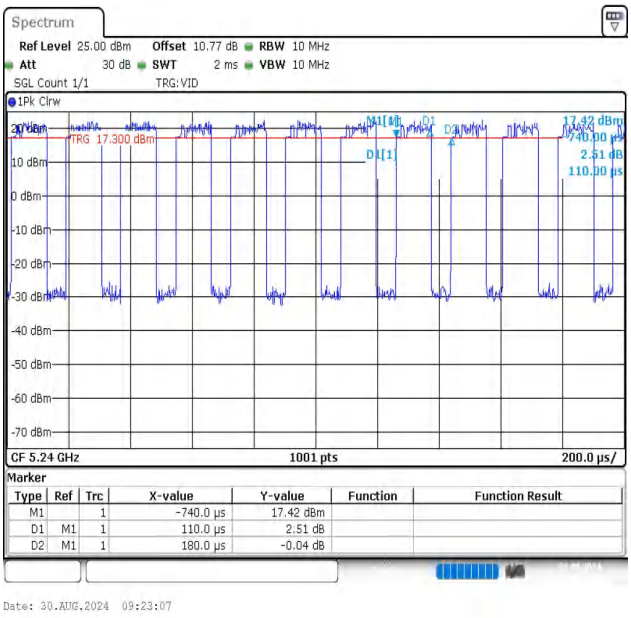
NTNV-11A-Ant1-5825



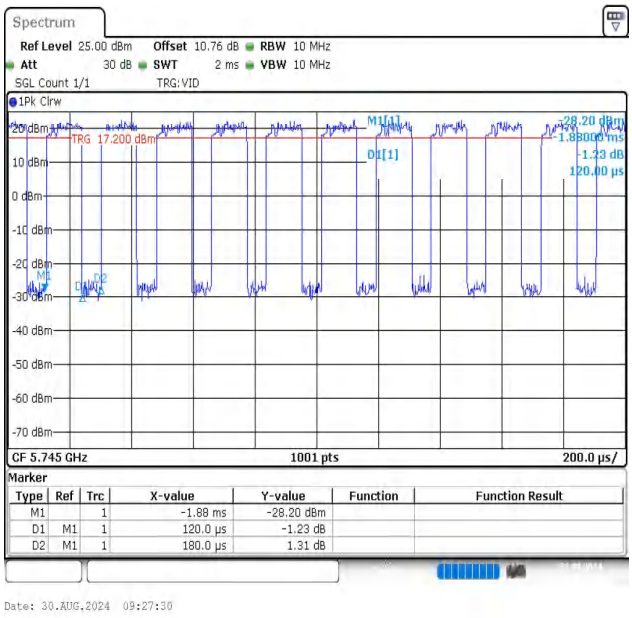
NTNV-11N20SISO-Ant1-5180



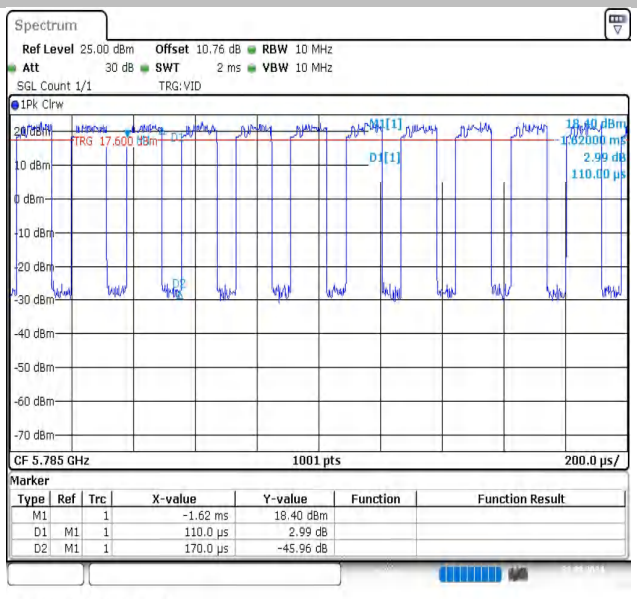
NTNV-11N20SISO-Ant1-5200



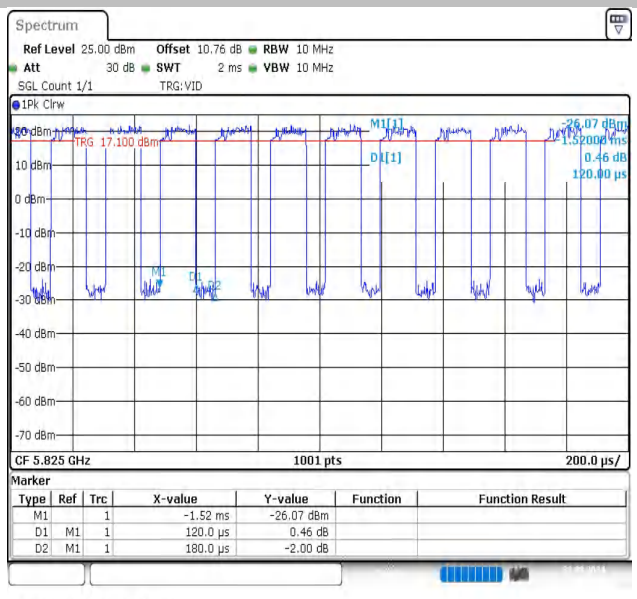
NTNV-11N20SISO-Ant1-5240



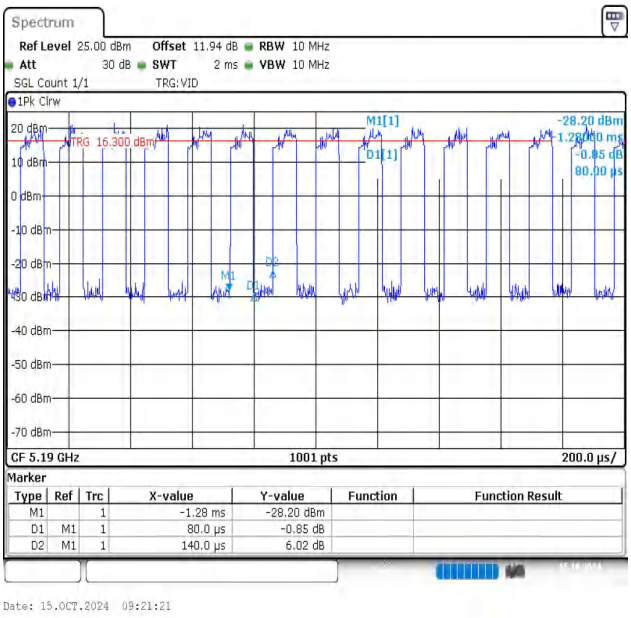
NTNV-11N20SISO-Ant1-5745



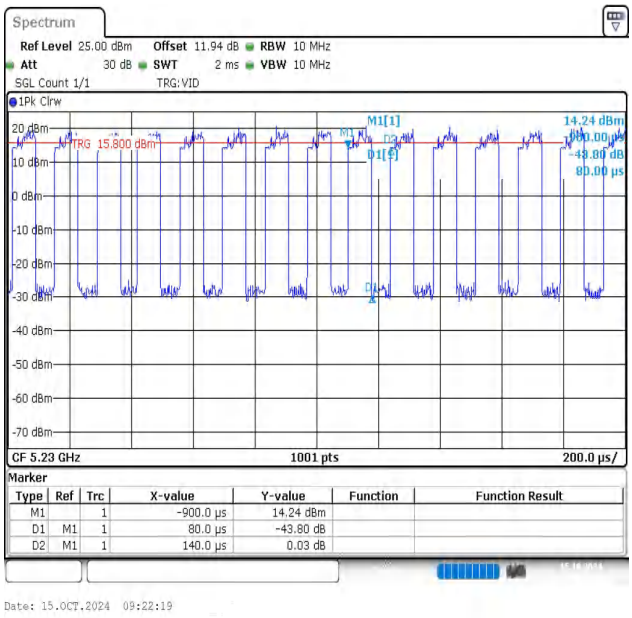
NTNV-11N20SISO-Ant1-5785



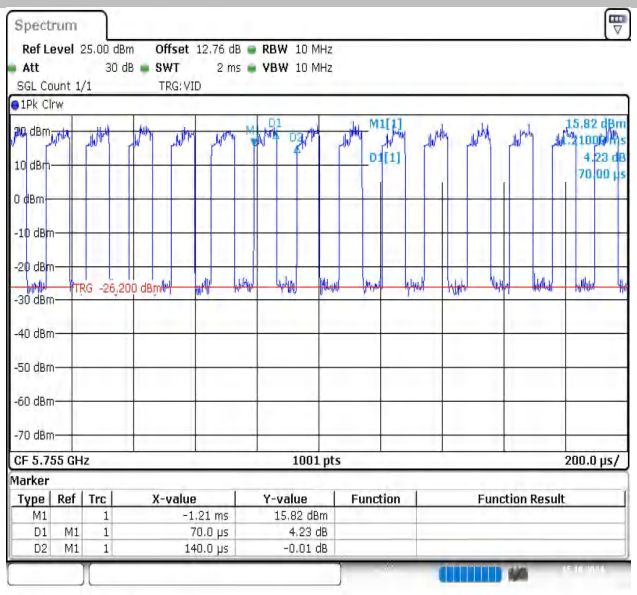
NTNV-11N20SISO-Ant1-5825



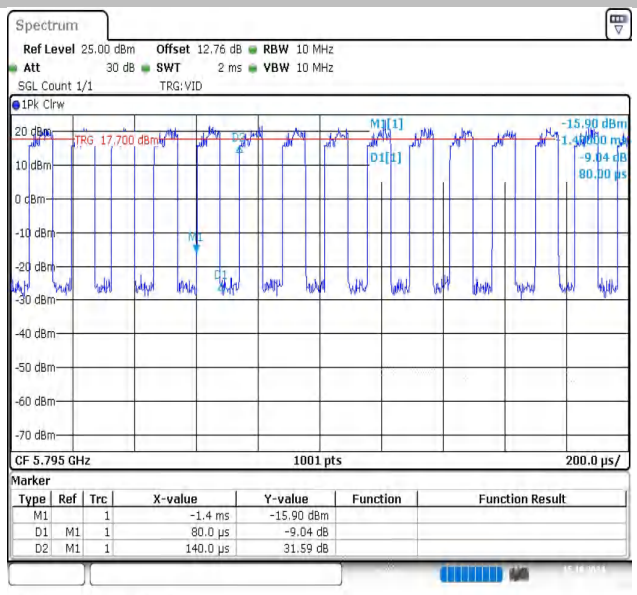
NTNV-11N40SISO-Ant1-5190



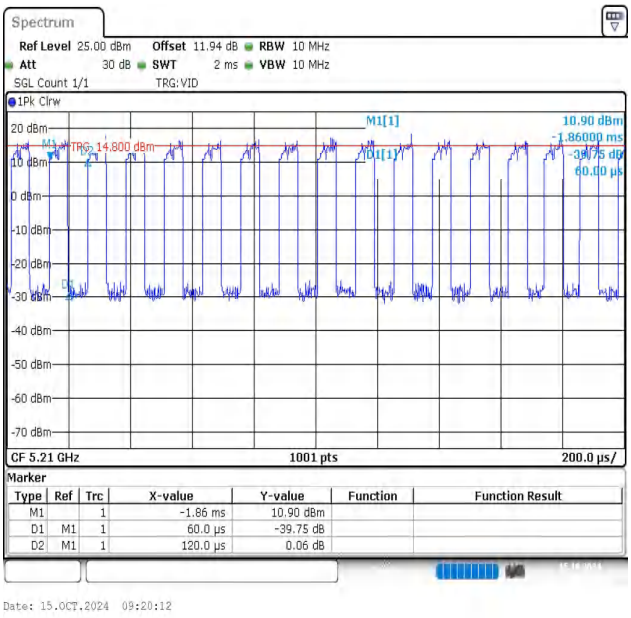
NTNV-11N40SISO-Ant1-5230



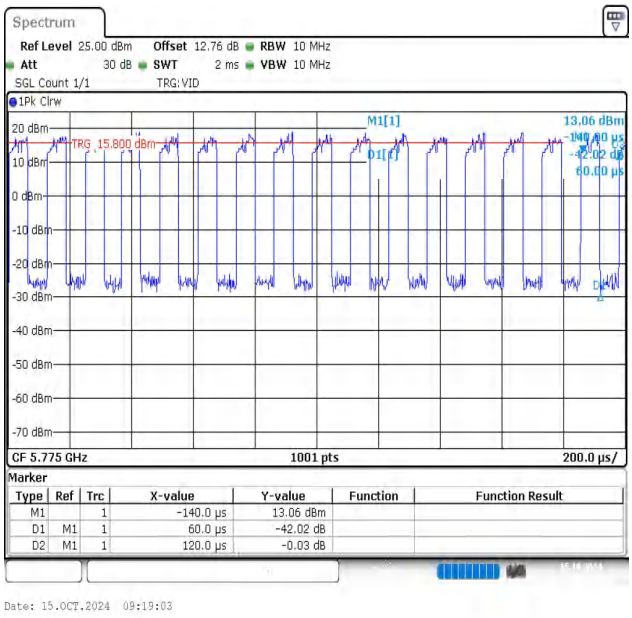
NTNV-11N40SISO-Ant1-5755



NTNV-11N40SISO-Ant1-5795



NTNV-11AC80SISO-Ant1-5210



NTNV-11AC80SISO-Ant1-5775

Appendix C: Maximum conducted output power

Test Result Channel Power

Test Mode	Antenna	Freq (MHz)	Channel Powert [dBm]	DC Factor [dB]	Output Power Result [dBm]	Limit [dBm]	Gain [dBi]	EIRP [dBm]	EIRP Limit [dBm]	Verdict
11A	Ant1	5180	14.09	2.14	16.23	≤23.98	-0.10	16.13	---	PASS
11A	Ant1	5200	14.04	2.14	16.18	≤23.98	-0.10	16.08	---	PASS
11A	Ant1	5240	13.95	1.76	15.71	≤23.98	-0.10	15.61	---	PASS
11A	Ant1	5745	15.20	2.14	17.34	≤30.00	-0.10	17.24	---	PASS
11A	Ant1	5785	14.99	1.76	16.75	≤30.00	-0.10	16.65	---	PASS
11A	Ant1	5825	14.36	1.76	16.12	≤30.00	-0.10	16.02	---	PASS
11N20SISO	Ant1	5180	13.74	2.14	15.88	≤23.98	-0.10	15.78	---	PASS
11N20SISO	Ant1	5200	13.68	2.14	15.82	≤23.98	-0.10	15.72	---	PASS
11N20SISO	Ant1	5240	13.64	2.14	15.78	≤23.98	-0.10	15.68	---	PASS
11N20SISO	Ant1	5745	14.51	1.76	16.27	≤30.00	-0.10	16.17	---	PASS
11N20SISO	Ant1	5785	14.42	1.89	16.31	≤30.00	-0.10	16.21	---	PASS
11N20SISO	Ant1	5825	13.84	1.76	15.60	≤30.00	-0.10	15.50	---	PASS
11N40SISO	Ant1	5190	12.66	2.43	15.09	≤23.98	-0.10	14.99	---	PASS
11N40SISO	Ant1	5230	12.68	2.43	15.11	≤23.98	-0.10	15.01	---	PASS
11N40SISO	Ant1	5755	13.74	3.01	16.75	≤30.00	-0.10	16.65	---	PASS
11N40SISO	Ant1	5795	13.19	2.43	15.62	≤30.00	-0.10	15.52	---	PASS
11AC80SISO	Ant1	5210	12.51	3.01	15.52	≤23.98	-0.10	15.42	---	PASS
11AC80SISO	Ant1	5775	12.84	3.01	15.85	≤30.00	-0.10	15.75	---	PASS

Note：Output Power Result [dBm] = Channel Powert[dBm] + DC Factor[dB]

Appendix D: Maximum power spectral density

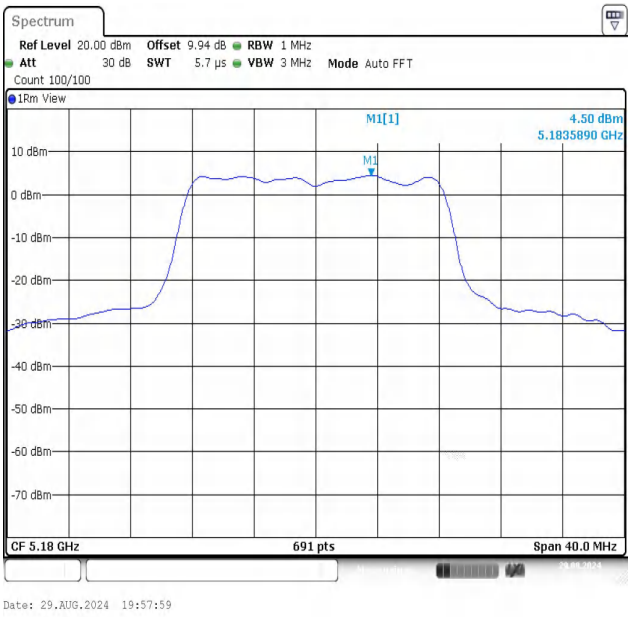
Test Result

Test Mode	Antenna	Freq (MHz)	PSD Reading [dBm]	DC Factor [dB]	PSD Result [dBm]	PSD Limit [dBm]	Gain [dBi]	EIRP.PSD [dBm]	EIRP.PSD Limit[dBm]	Verdict
11A	Ant1	5180	4.5	2.14	6.64	≤11.00	-0.10	6.54	≤10.00	PASS
11A	Ant1	5200	3.34	2.14	5.48	≤11.00	-0.10	5.38	≤10.00	PASS
11A	Ant1	5240	4.84	1.76	6.60	≤11.00	-0.10	6.50	≤10.00	PASS
11A	Ant1	5745	2.46	2.14	4.60	≤30.00	-0.10	4.50	---	PASS
11A	Ant1	5785	3.26	1.76	5.02	≤30.00	-0.10	4.92	---	PASS
11A	Ant1	5825	2.27	1.76	4.03	≤30.00	-0.10	3.93	---	PASS
11N20SISO	Ant1	5180	3.66	2.14	5.80	≤11.00	-0.10	5.70	≤10.00	PASS
11N20SISO	Ant1	5200	2.63	2.14	4.77	≤11.00	-0.10	4.67	≤10.00	PASS
11N20SISO	Ant1	5240	3.86	2.14	6.00	≤11.00	-0.10	5.90	≤10.00	PASS
11N20SISO	Ant1	5745	1.68	1.76	3.44	≤30.00	-0.10	3.34	---	PASS
11N20SISO	Ant1	5785	3.17	1.89	5.06	≤30.00	-0.10	4.96	---	PASS
11N20SISO	Ant1	5825	2.07	1.76	3.83	≤30.00	-0.10	3.73	---	PASS
11N40SISO	Ant1	5190	-0.77	2.43	1.66	≤11.00	-0.10	1.56	≤10.00	PASS
11N40SISO	Ant1	5230	-0.89	2.43	1.54	≤11.00	-0.10	1.44	≤10.00	PASS
11N40SISO	Ant1	5755	-1.56	3.01	1.45	≤30.00	-0.10	1.35	---	PASS
11N40SISO	Ant1	5795	-1.91	2.43	0.52	≤30.00	-0.10	0.42	---	PASS
11AC80SISO	Ant1	5210	-3.96	3.01	-0.95	≤11.00	-0.10	-1.05	≤10.00	PASS
11AC80SISO	Ant1	5775	-4.31	3.01	-1.30	≤30.00	-0.10	-1.40	---	PASS

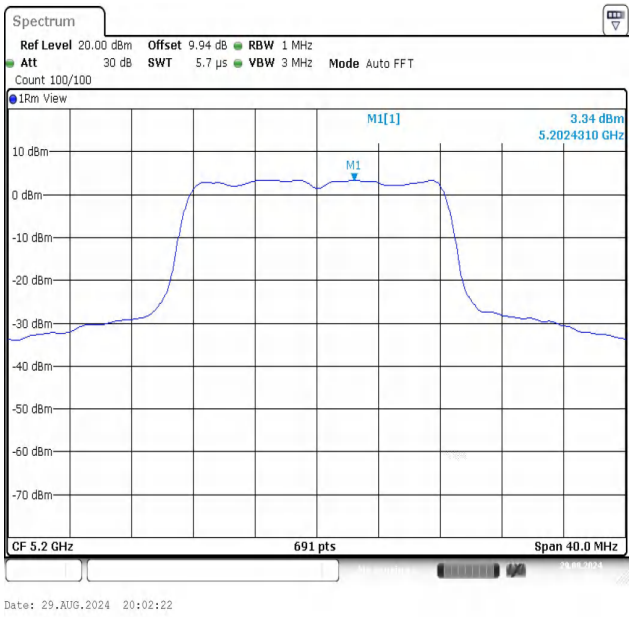
Note：1.The Result and Limit Unit is dBm/500 kHz in the band 5.725–5.85 GHz.

2. PSD Result [dBm] = PSD Reading [dBm] + DC Factor[dB].

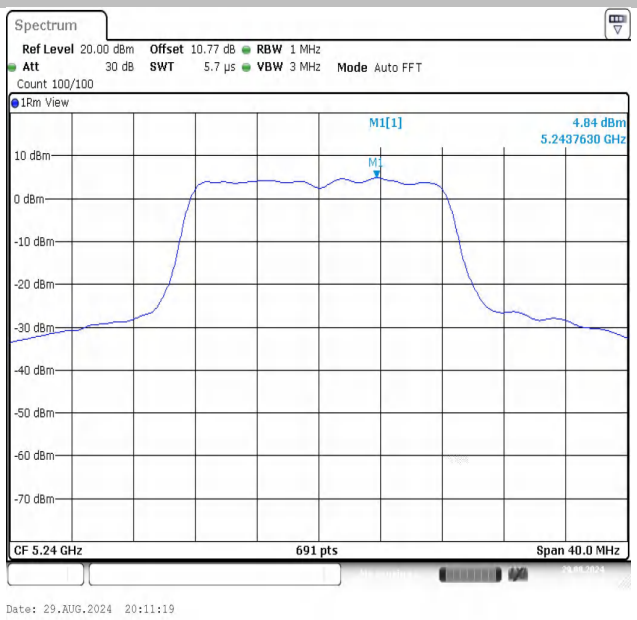
Test Graphs



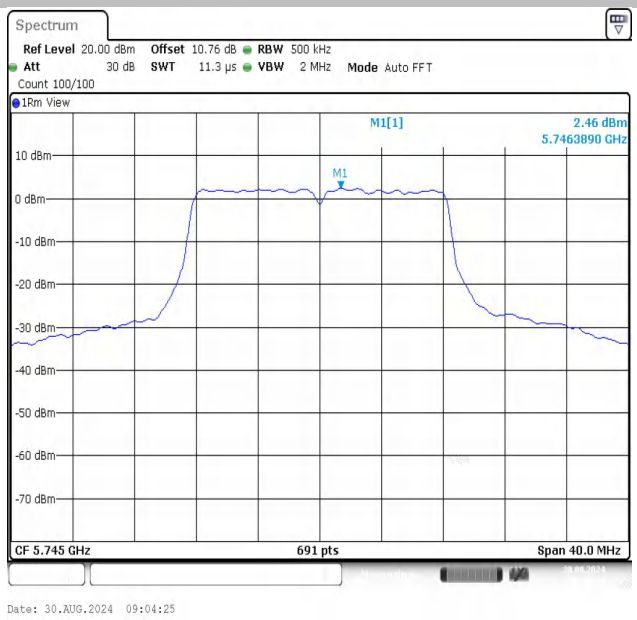
11A-Ant1-5180-PASS



11A-Ant1-5200-PASS



11A-Ant1-5240-PASS



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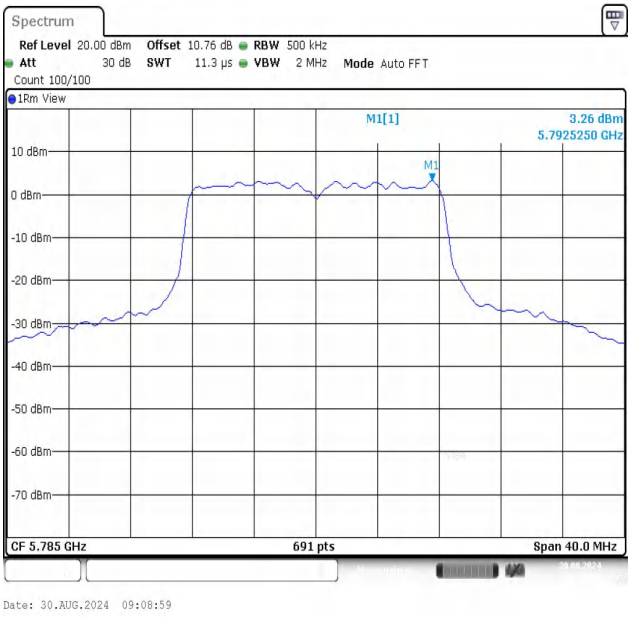

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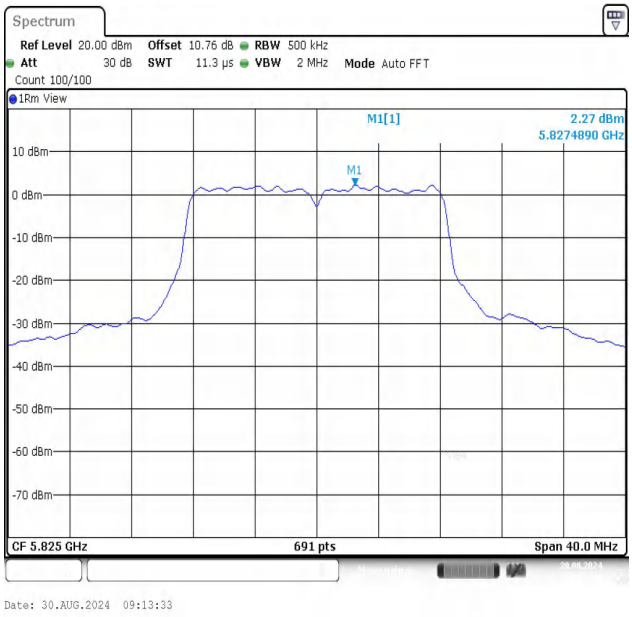
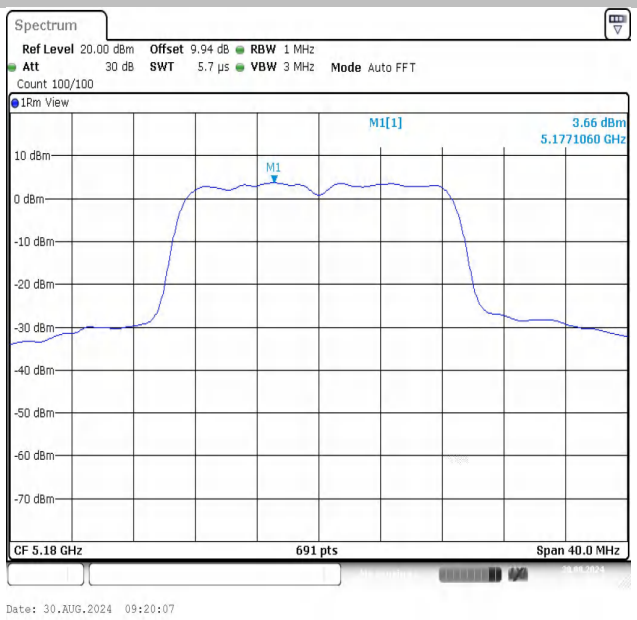
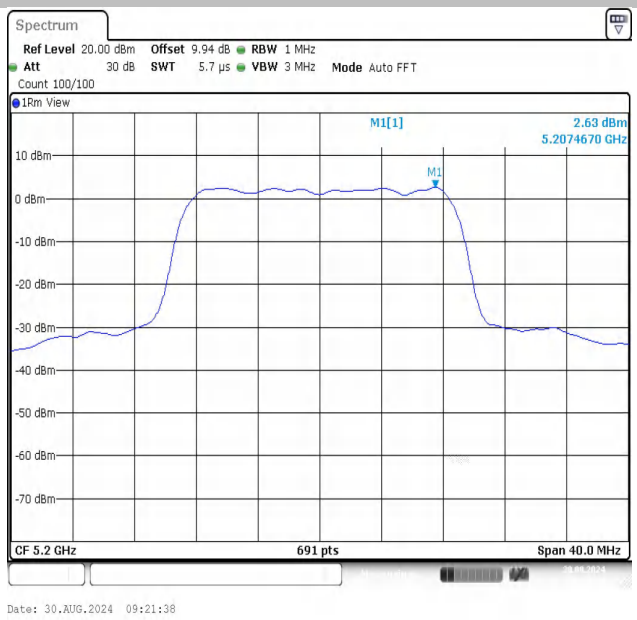


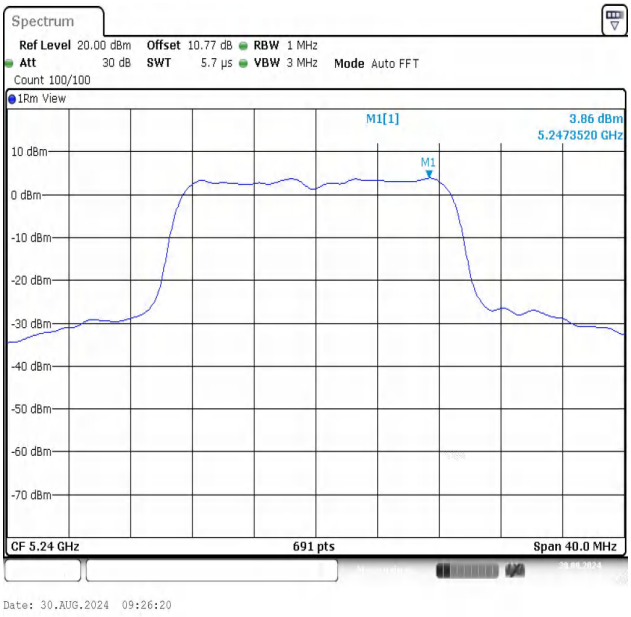
11A-Ant1-5825-PASS



11N20SISO-Ant1-5180-PASS



11N20SISO-Ant1-5200-PASS



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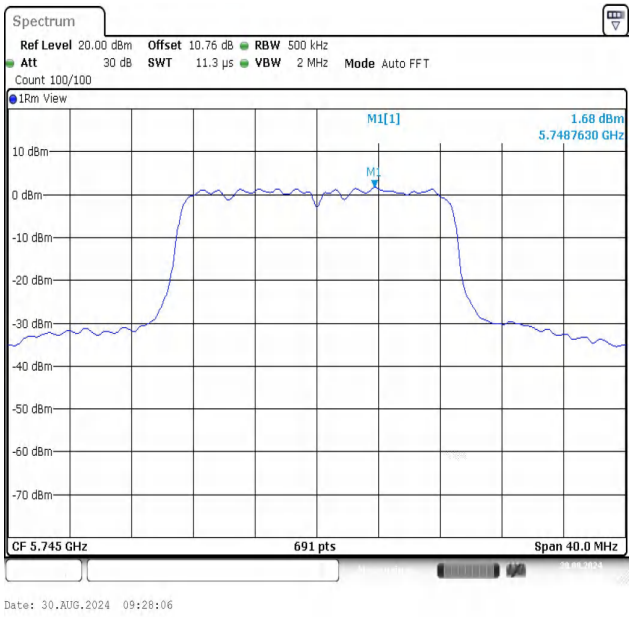

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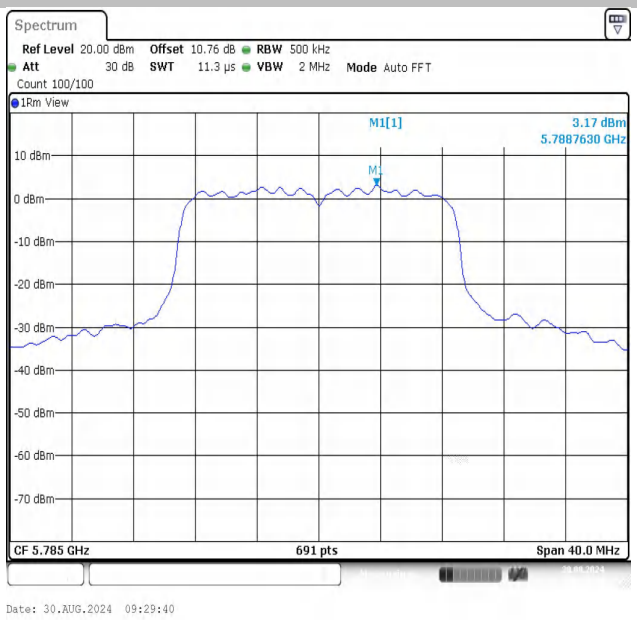

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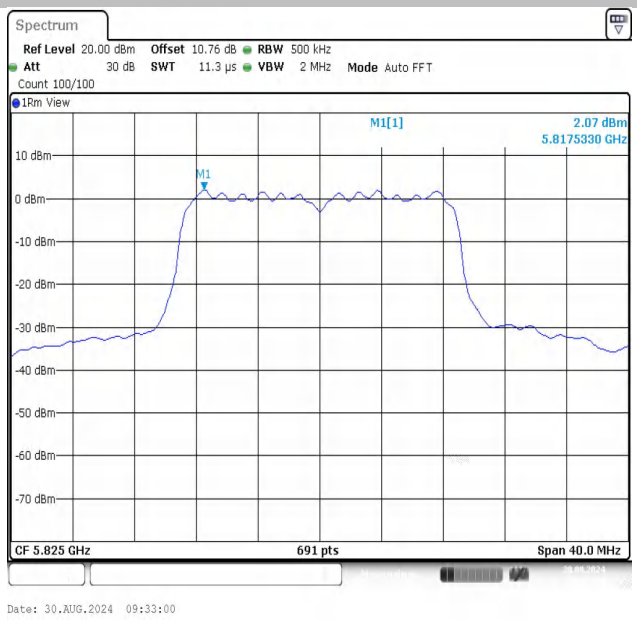

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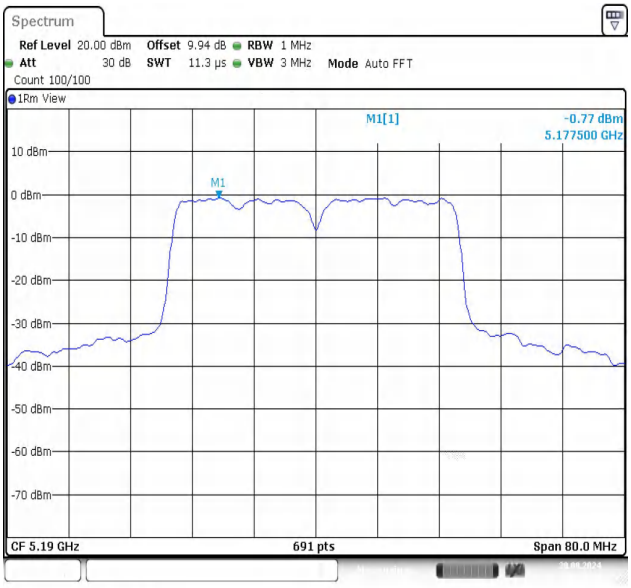

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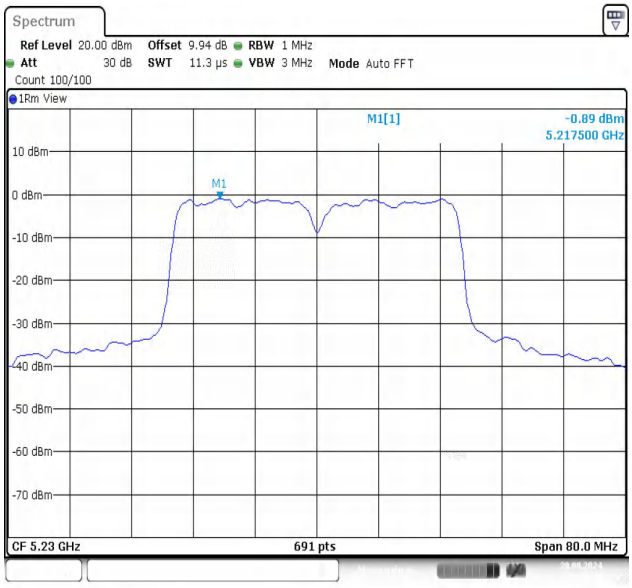

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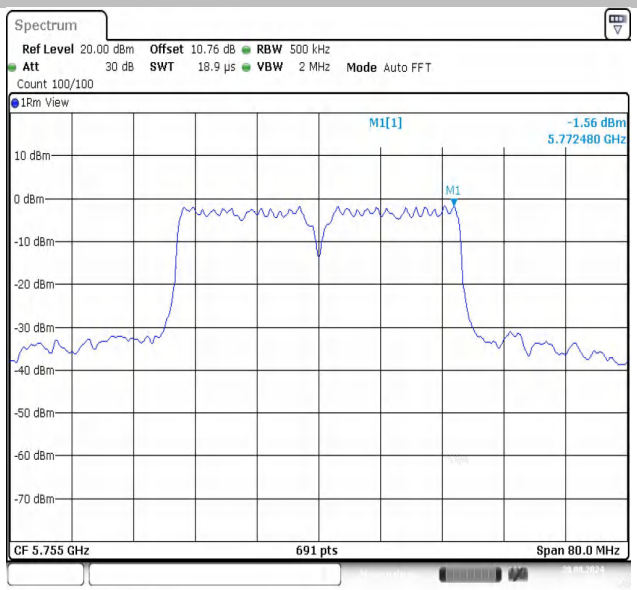

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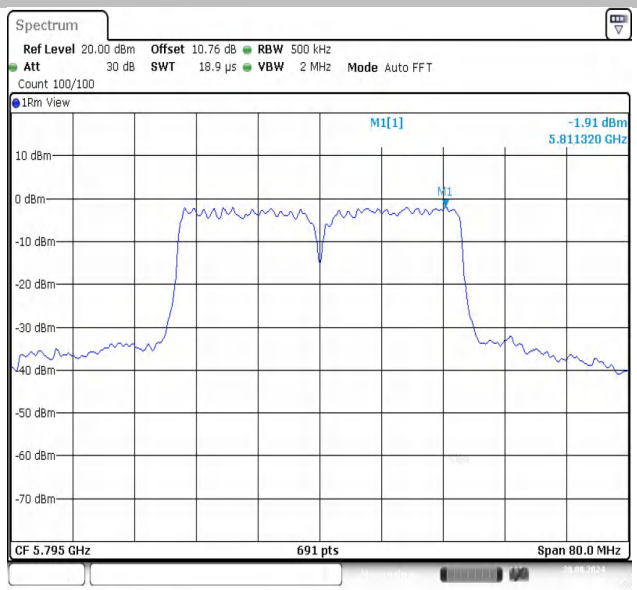
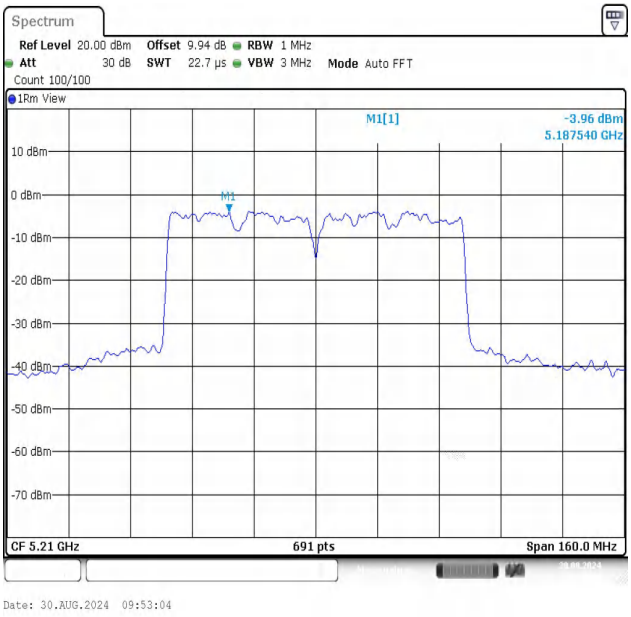
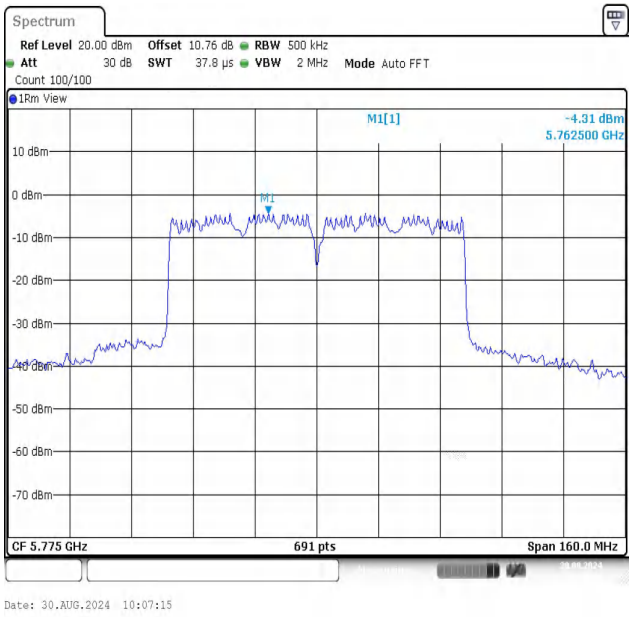


11N40SISO-Ant1-5795-PASS



11AC80SISO-Ant1-5210-PASS



11AC80SISO-Ant1-5775-PASS

Appendix E: Frequency Stability

Test Result

Voltage								
Test Mode	Antenna	Freq(MHz)	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	NT	0.00	0.000000	20	PASS
11A	Ant1	5180	LV	NT	20000.00	3.861004	20	PASS
11A	Ant1	5180	HV	NT	0.00	0.000000	20	PASS
11A	Ant1	5200	NV	NT	10001.25	1.923317	20	PASS
11A	Ant1	5200	LV	NT	15001.88	2.884976	20	PASS
11A	Ant1	5200	HV	NT	5000.63	0.961659	20	PASS
11A	Ant1	5240	NV	NT	5000.63	0.954318	20	PASS
11A	Ant1	5240	LV	NT	5000.63	0.954318	20	PASS
11A	Ant1	5240	HV	NT	15001.87	2.862953	20	PASS
11A	Ant1	5745	NV	NT	15001.88	2.611292	20	PASS
11A	Ant1	5745	LV	NT	-2500.31	-0.435215	20	PASS
11A	Ant1	5745	HV	NT	-10001.25	-1.740862	20	PASS
11A	Ant1	5785	NV	NT	17502.19	3.025443	20	PASS
11A	Ant1	5785	LV	NT	15001.87	2.593237	20	PASS
11A	Ant1	5785	HV	NT	5000.63	0.864412	20	PASS
11A	Ant1	5825	NV	NT	5000.63	0.858476	20	PASS
11A	Ant1	5825	LV	NT	-2500.32	-0.429239	20	PASS
11A	Ant1	5825	HV	NT	5000.63	0.858476	20	PASS

Temperature								
Test Mode	Antenna	Freq(MHz)	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
11A	Ant1	5180	NV	-30	0.00	0.000000	20	PASS
11A	Ant1	5180	NV	-20	0.00	0.000000	20	PASS
11A	Ant1	5180	NV	-10	0.00	0.000000	20	PASS
11A	Ant1	5180	NV	0	0.00	0.000000	20	PASS
11A	Ant1	5180	NV	10	0.00	0.000000	20	PASS
11A	Ant1	5180	NV	20	0.00	0.000000	20	PASS
11A	Ant1	5180	NV	30	0.00	0.000000	20	PASS
11A	Ant1	5180	NV	40	0.00	0.000000	20	PASS
11A	Ant1	5180	NV	50	0.00	0.000000	20	PASS
11A	Ant1	5200	NV	-30	-5000.63	-0.961659	20	PASS
11A	Ant1	5200	NV	-20	0.00	0.000000	20	PASS
11A	Ant1	5200	NV	-10	2500.31	0.480829	20	PASS
11A	Ant1	5200	NV	0	-2500.32	-0.480830	20	PASS
11A	Ant1	5200	NV	10	5000.63	0.961659	20	PASS
11A	Ant1	5200	NV	20	-5000.63	-0.961659	20	PASS
11A	Ant1	5200	NV	30	7500.94	1.442488	20	PASS
11A	Ant1	5200	NV	40	7500.94	1.442488	20	PASS
11A	Ant1	5200	NV	50	5000.63	0.961659	20	PASS
11A	Ant1	5240	NV	-30	10001.25	1.908635	20	PASS
11A	Ant1	5240	NV	-20	-5000.63	-0.954318	20	PASS
11A	Ant1	5240	NV	-10	-2500.31	-0.477158	20	PASS
11A	Ant1	5240	NV	0	-2500.31	-0.477158	20	PASS
11A	Ant1	5240	NV	10	2500.31	0.477158	20	PASS
11A	Ant1	5240	NV	20	5000.63	0.954318	20	PASS
11A	Ant1	5240	NV	30	0.00	0.000000	20	PASS
11A	Ant1	5240	NV	40	10001.25	1.908635	20	PASS
11A	Ant1	5240	NV	50	0.00	0.000000	20	PASS
11A	Ant1	5745	NV	-30	-2500.31	-0.435215	20	PASS
11A	Ant1	5745	NV	-20	12501.56	2.176077	20	PASS
11A	Ant1	5745	NV	-10	12501.57	2.176077	20	PASS
11A	Ant1	5745	NV	0	12501.56	2.176077	20	PASS
11A	Ant1	5745	NV	10	0.00	0.000000	20	PASS
11A	Ant1	5745	NV	20	7500.94	1.305647	20	PASS
11A	Ant1	5745	NV	30	2500.31	0.435215	20	PASS
11A	Ant1	5745	NV	40	10001.25	1.740862	20	PASS
11A	Ant1	5745	NV	50	7500.94	1.305647	20	PASS
11A	Ant1	5785	NV	-30	2500.32	0.432207	20	PASS
11A	Ant1	5785	NV	-20	5000.63	0.864412	20	PASS
11A	Ant1	5785	NV	-10	5000.63	0.864412	20	PASS
11A	Ant1	5785	NV	0	2500.32	0.432207	20	PASS

11A	Ant1	5785	NV	10	20002.50	3.457649	20	PASS
11A	Ant1	5785	NV	20	5000.63	0.864412	20	PASS
11A	Ant1	5785	NV	30	0.00	0.000000	20	PASS
11A	Ant1	5785	NV	40	0.00	0.000000	20	PASS
11A	Ant1	5785	NV	50	-2500.32	-0.432207	20	PASS
11A	Ant1	5825	NV	-30	7500.94	1.287714	20	PASS
11A	Ant1	5825	NV	-20	0.00	0.000000	20	PASS
11A	Ant1	5825	NV	-10	0.00	0.000000	20	PASS
11A	Ant1	5825	NV	0	-2500.31	-0.429238	20	PASS
11A	Ant1	5825	NV	10	0.00	0.000000	20	PASS
11A	Ant1	5825	NV	20	12501.56	2.146191	20	PASS
11A	Ant1	5825	NV	30	5000.63	0.858476	20	PASS
11A	Ant1	5825	NV	40	0.00	0.000000	20	PASS
11A	Ant1	5825	NV	50	2500.32	0.429239	20	PASS

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