

The **Radial Diagrams** map option is designed for plotting multi-variate polygons or piecharts in which all of the components are listed in the same units (e.g., milliequivalents per liter). This program will create a map that can be used to visually identify similarities. For example, consider a **RockWorks Datasheet** populated with PFAS/PFOA data (Figure 1).

ID	Sym	X	Y	PFUnA	PFDA	PFNA	PFOA	PFHpA	PFHxA	PFPeA	PFBA	PFBS	PFHxS	PFOS	PFOSA
		UTM Meters	UTM Meters												
A	○	482,035.1	4,399,961.0	997.116601	7,639.777111	5,591.685905	2,002.260772	6,464.656739	4,239.148471	2,187.319643	8,674.375794	879.537463	9,058.271097	2,827.302175	2,754.895562
B	●	481,975.5	4,399,835.3	9,492.510059	99.694792	1,882.452035	3.919755	5.962561	7.920584	3,172.994562	1,052.625341	3,614.140107	5,892.420817	0.46477	9,691.492184
C1	□	482,117.4	4,399,908.2	258.600657	998.566278	3.702858	8,912.013211	2,380.558709	8,793.134972	1,347.472165	7,486.52306	1.648084	2,297.695787	9,073.785302	1,918.503035
C2	◇	482,107.9	4,399,939.4	7,280.882075	5,765.957814	1,044.79865	1,094.755847	777.784869	1,359.525044	22.775881	0.302841	2,723.273004	4,745.136977	1,411.15483	0.099084
D	○	482,031.7	4,399,803.0	79.458909	4,601.496639	10.113111	1,219.269445	8,456.648814	742.735299	458.587596	533.777924	2.031418	5,226.037586	1,038.597273	9,228.023589
E1	○	482,125.9	4,399,837.7	7,041.62794	4,135.601793	998.989165	7,351.938107	281.742505	513.434798	327.820495	3,755.364767	665.001843	6,146.379775	5,413.606424	4,713.855514
E2	⊗	481,922.9	4,399,803.6	6,245.482935	992.518427	1,069.485957	993.224818	4,194.928312	2,704.771782	361.780368	99.693114	1,529.564743	7.536495	2,893.632749	6,304.439974
E3	⊕	482,069.0	4,399,952.1	3.6752	1,866.872352	4,404.821043	1,237.704898	981.19902	821.360324	631.224897	25.03614	3.525896	2,056.378537	9,129.429203	1,601.761072
E4	⊕	481,897.8	4,399,883.3	4,121.512332	860.931666	3,588.424918	4,540.123913	148.482635	995.007455	7,703.453343	4,533.992088	3,173.289845	4,705.221788	650.383254	101.574683
E5	●	481,943.3	4,399,772.2	13.997596	830.059997	6,008.28847	5.894407	0.009102	8,185.160957	202.362768	6,751.353807	4.707953	274.169156	663.573908	123.818405
AH-1	○	481,934.6	4,399,883.1	8,810.845684	3,194.354037	6,400.769859	57.681982	569.701485	261.474404	4,820.082667	279.98903	0.511146	251.898128	6,319.014087	5,136.501306
AH-2W	○	481,909.6	4,399,834.0	4,085.137782	250.223374	3,344.04625	170.718912	1,829.103514	422.195953	2,895.356127	100.399382	9,844.081222	2,530.990643	5,436.808091	9,001.834351
AH-2S	⊕	481,988.0	4,399,965.1	823.957521	1,999.363685	201.394308	9,548782	6,280.753279	44.731409	357.267667	1,780.324421	3,431.847279	0.029721	8,458.923602	3,111.281055
AH-3S	⊕	482,141.6	4,399,791.8	0.041102	6,746.68534	1,678.808622	70.843947	3,051.71696	308.160181	793.562265	609.305256	2,343.840612	5,214.724879	0.442743	5,722.911727
AH-4S	⊕	481,982.7	4,399,775.5	9.675656	2,849.56329	4,906.159478	184.683571	8,278.081227	38.638233	4,690.536909	4,070.475596	2,919.440392	2,528.181334	7,669.055653	49.413753

Figure 1

This **Diagram Options** sub-menu (Figure 2) provides a variety of options that determine how the radial diagrams will be created.

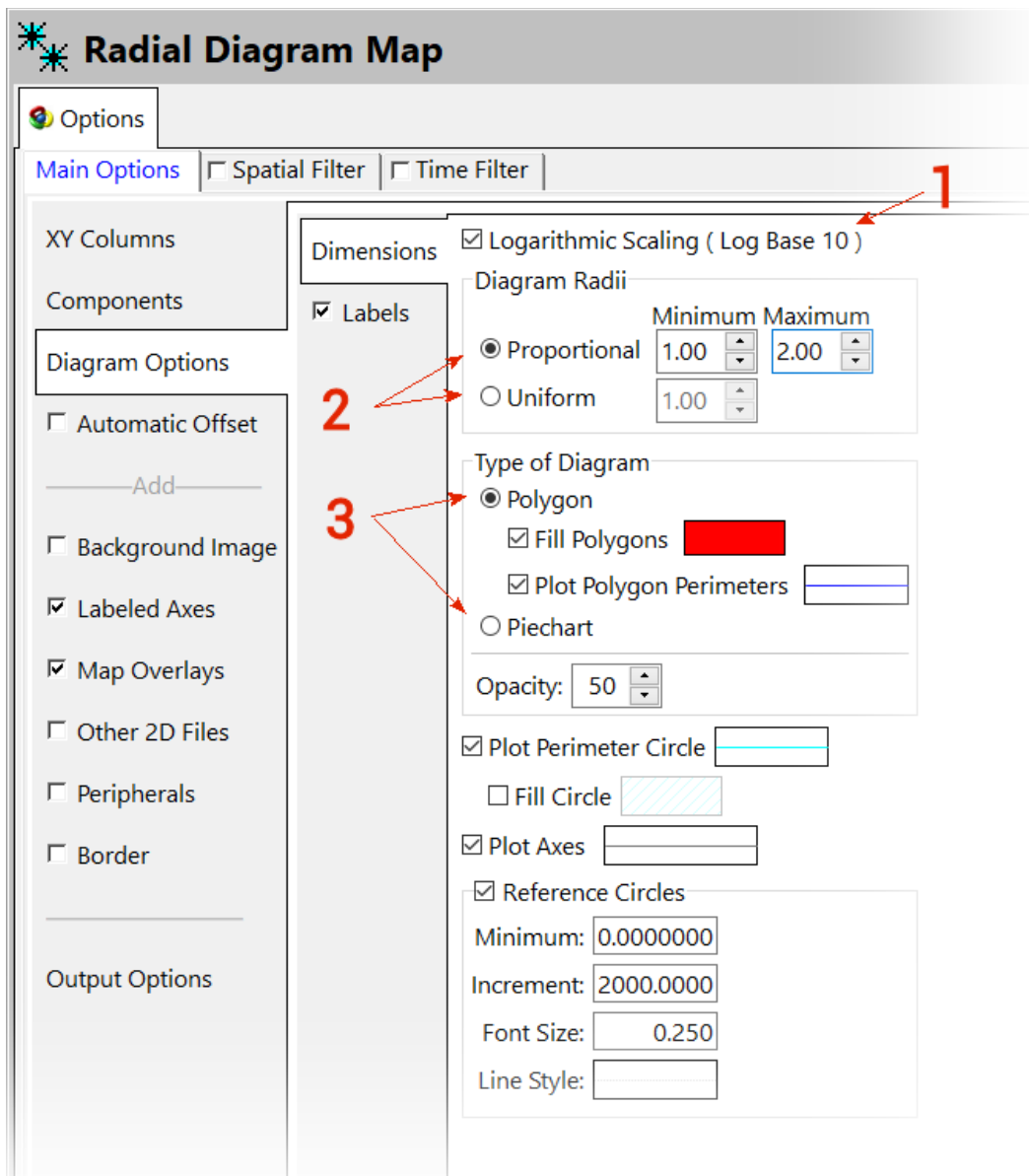


Figure 2

- The **Logarithmic Scaling** option will re-scale the component magnitudes using a log-10 conversion. This provides a way to view both the smaller and the larger values at the same time (Figure 3). Note: If the Logarithmic Scaling option is selected, the **Minimum** and **Increment** values for the **Reference Circles** will be automatically computed.

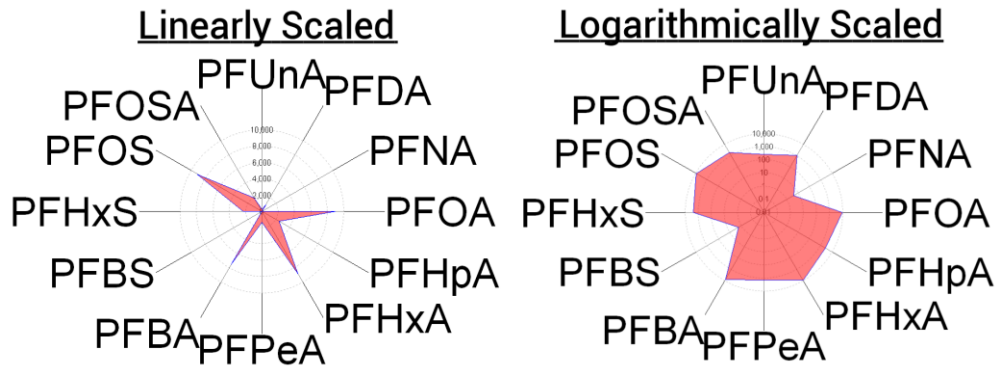


Figure 3

- The **Diagram Radii / Proportional** setting will scale the diagrams that are proportional to the sum of all values for the corresponding row within the **RockWorks Datasheet** whereas the **Uniform** setting will create diagrams that are all the same size (Figure 4).

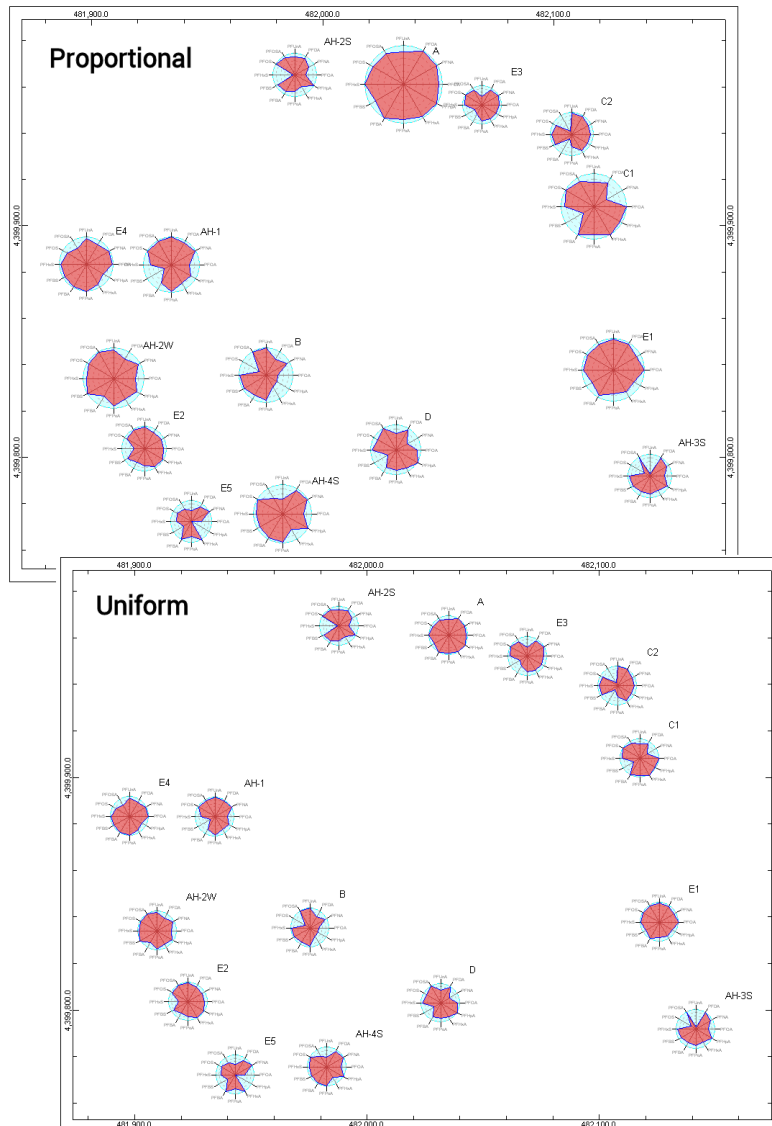


Figure 4

- The **Polygon** setting will draw polygons connecting the intercept vertices (Figure 5) while the **Piechart** setting will draw arcuate wedges from the midpoint to the intercepts (Figure 6). Note that the polygons are monochromatic while the pie slice colors are defined within the **Components** tab.

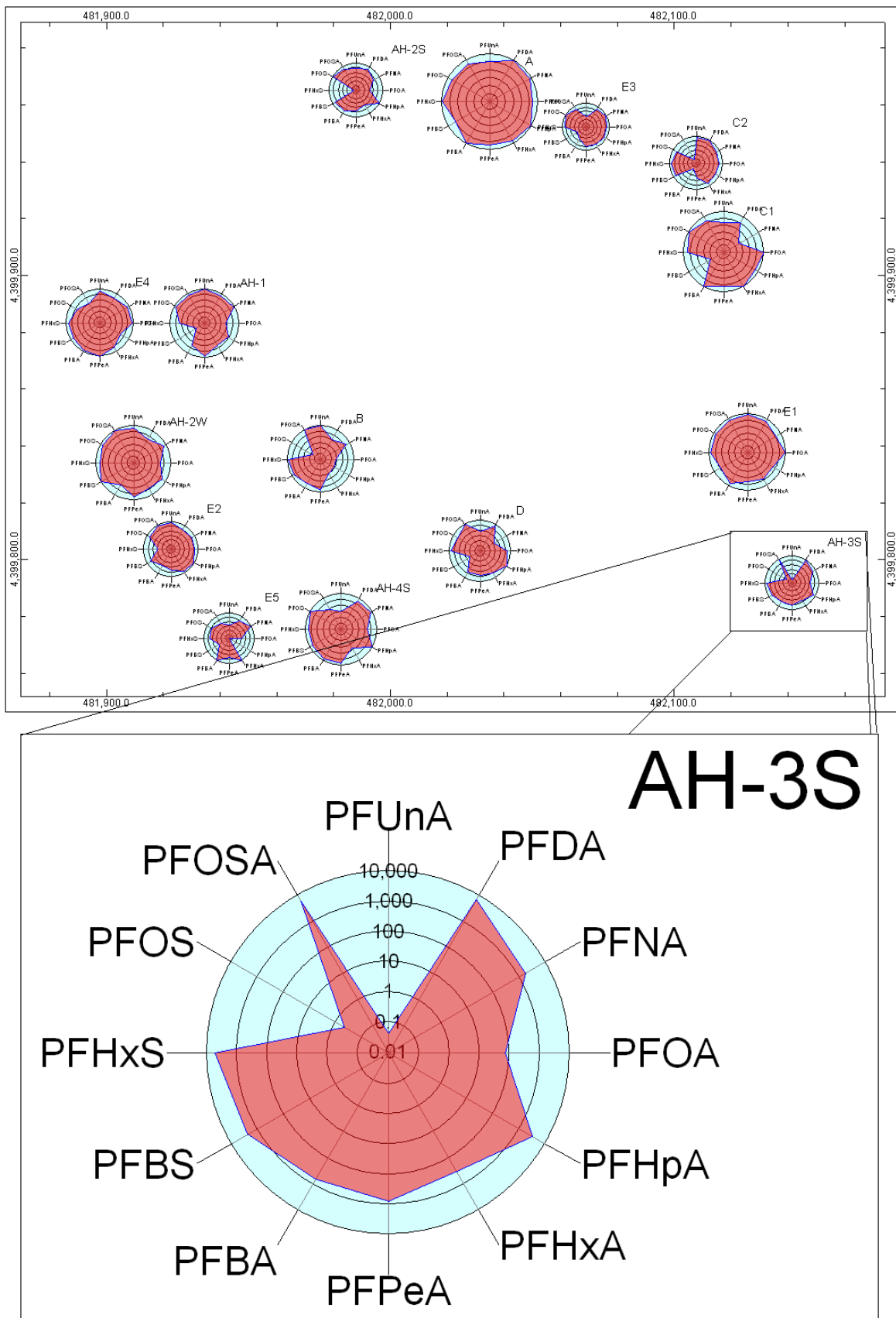


Figure 5

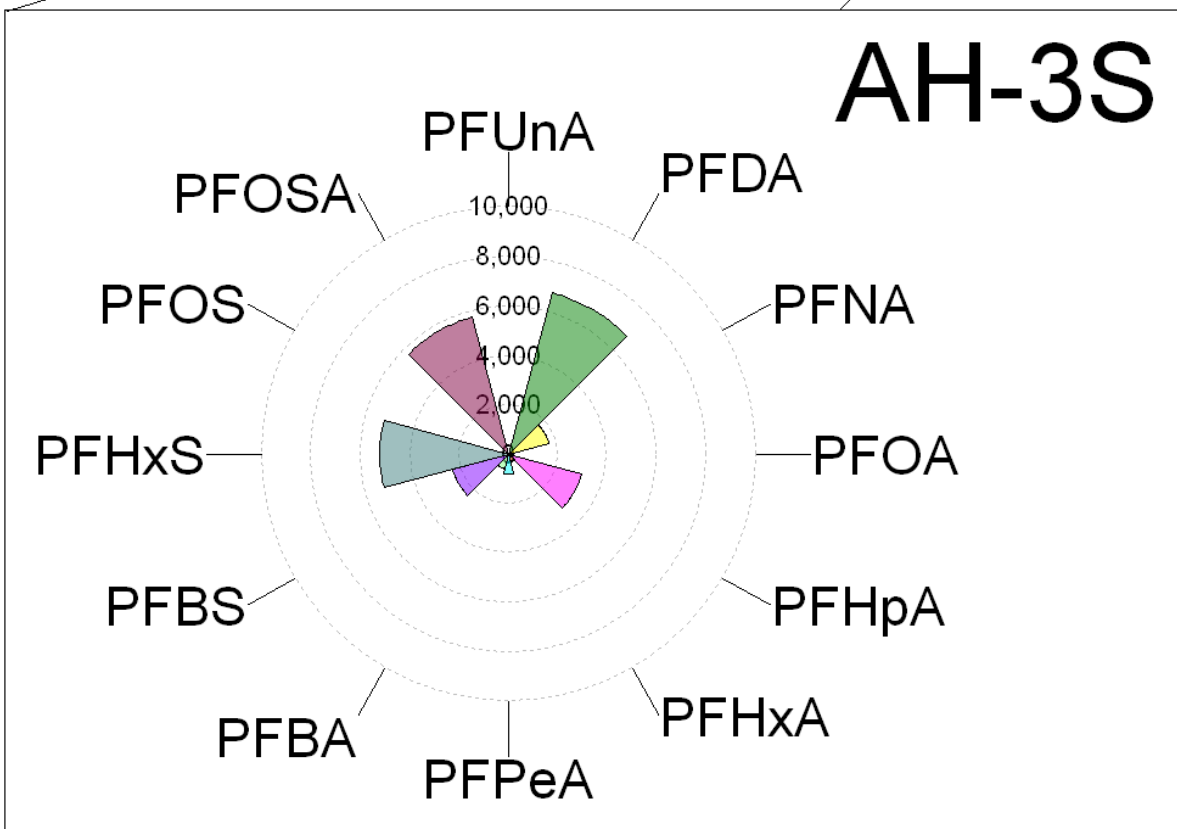
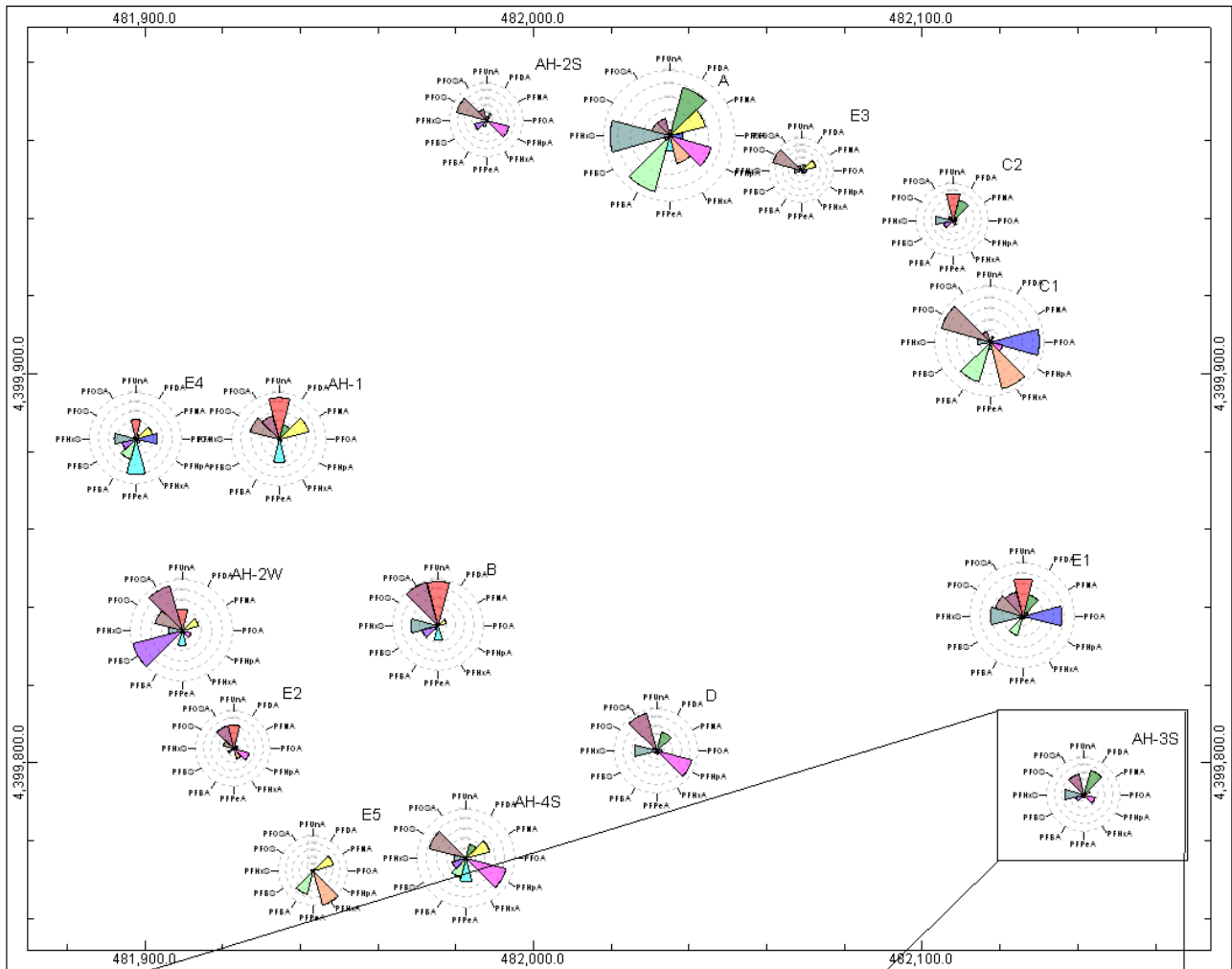


Figure 6
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A sample input file titled "PFAS.RwDat" has been added to the Samples folder.