

Safeguard Our Water from PFAS: Analytical Methods at a Glance

Method	EPA 537 & 537.1	ASTM D7979-17	ASTM D7968-17	EPA 8327 <small>TO BE PUBLISHED</small>	EPA 8328 <small>TO BE PUBLISHED</small> Meets DOD QSM	EPA 8329 <small>TO BE PUBLISHED</small>	EPA "Short Chain" <small>TO BE PUBLISHED</small>
Sample	Drinking Water	Ground/ Surface/ Waste Water Effluent	Soil Sediment Sludge	Ground/ Surface/ Waste Water Effluent	EPA 8327 + Soil, Sediment, Sludge	Soil Sediment Sludge	Water
Sample Preparation	Solid phase extraction (polymeric sorbent)	Direct injection	Solvent extraction + direct injection	Direct injection	Solid phase extraction	Direct injection	Solid phase extraction
Quantitation	Internal standard calibration (1 MRM)	External calibration (2 MRMs + ion ratio)	External calibration (2 MRMs + ion ratio)	External calibration	Isotopic dilution	External calibration	Internal standard calibration
Targets	EPA 537 – 14 EPA 537.1 – 18	21	21	24 (EPA 537 + 10)	25 (EPA 8327 + GenX)	24 (EPA 537 + 10)	25 (Mostly outside EPA 537.1)
Shimadzu's Platform	Triple Quad LCMS-8045 or LCMS-8050	Triple Quad LCMS-8050 or LCMS-8060	Triple Quad LCMS-8050 or LCMS-8060	Triple Quad LCMS-8050 or LCMS-8060	Triple Quad LCMS-8045 or LCMS-8050	Triple Quad LCMS-8050 or LCMS-8060	Triple Quad LCMS-8045 or LCMS-8050