

Safeguard Our Water from PFAS: Analytical Methods at a Glance

Method	EPA 537 & 537.1	EPA 533	EPA 8327	EPA Draft 1633	ASTM D8421-22	ASTM D7968-19
Sample	Drinking Water	Drinking Water	Ground/ Surface/ Wastewater	Aqueous, solid (soil, biosolids, sediment), tissue samples	Aqueous (municipal and industrial wastewater, leachate)	Soil Sediment Sludge
Sample Preparation	Solid phase extraction (polymeric sorbent)	Solid phase extraction (anionic sorbent)	Cosolvation + direct injection	Solid phase extraction (anionic sorbent) or solvent extraction + clean-up	Cosolvation + direct injection	Solvent extraction + direct injection
Quantitation	Internal standard calibration (1 MRM)	Isotopic dilution	External calibration	Isotopic dilution	External calibration (2 MRMs) Isotopic dilution optional	External calibration (2 MRMs + ion ratio)
Targets	EPA 537 – 14 EPA 537.1 – 18	25	24	40	44	21
Applicable LC-MS/MS Platforms	LCMS-8045 LCMS-8050	LCMS-8045 LCMS-8050	LCMS-8050 LCMS-8060 LCMS-8060NX	LCMS-8045 LCMS-8050 LCMS-8060 LCMS-8060NX	LCMS-8050 LCMS-8060 LCMS-8060NX	LCMS-8050 LCMS-8060 LCMS-8060NX

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