

For LabSolutions LCMS

LC/MS/MS PFAS Database



Perfluoro and polyfluoroalkyl substances (PFASs) are widely used for their water-repellent and heat-resistant properties, but their persistence, bioaccumulation, and toxicity are also seen as problematic. PFAS regulation varies worldwide, with some countries restricting certain PFAS compounds, while others are expanding monitoring, reporting, and drinking water standards.

This product includes MRM conditions for 124 PFAS components, together with ready-to-use analytical methods corresponding to eight official methods.

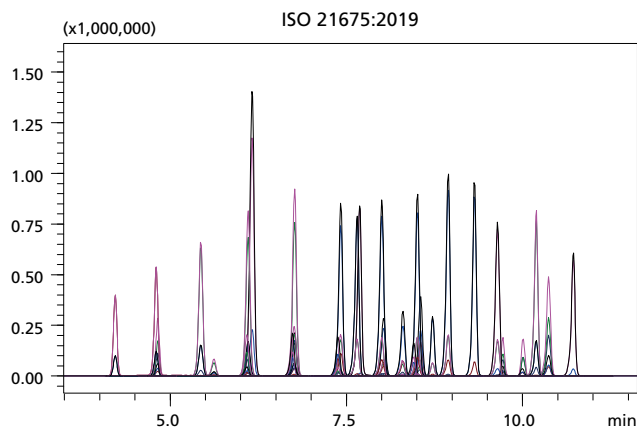
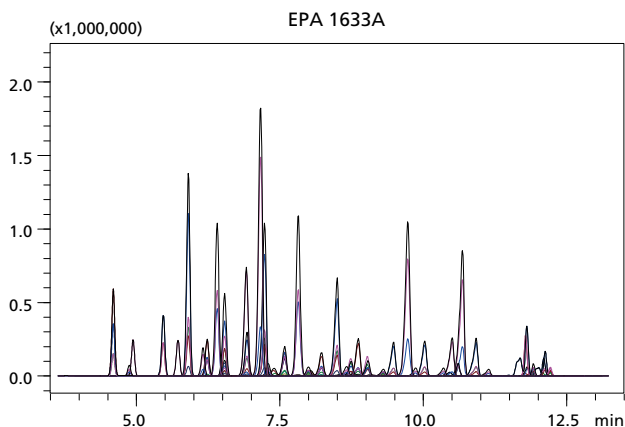
It also provides a comprehensive solution for developing new PFAS analytical methods by combining the extensive database with LabSolutions Connect MRM.

Includes Ready-to-Use Analytical Methods Compliant with Eight Official Methods

This product includes optimized LC/MS/MS analysis method files for the following official methods: EPA 533, EPA 537.1, EPA 1633A, ISO 21675:2019, DB32/T 4004-2021, ASTM D7968-23, ASTM D7979-20, and ASTM D8421-22.

Analysis can begin immediately using the prescribed column and conditions, eliminating the method development and optimization typically required for HPLC separations.

Chromatogram Examples



LC/MS/MS PFAS Database

Includes MRM Conditions for 124 Perfluoro and Polyfluoroalkyl Substances (PFASs)

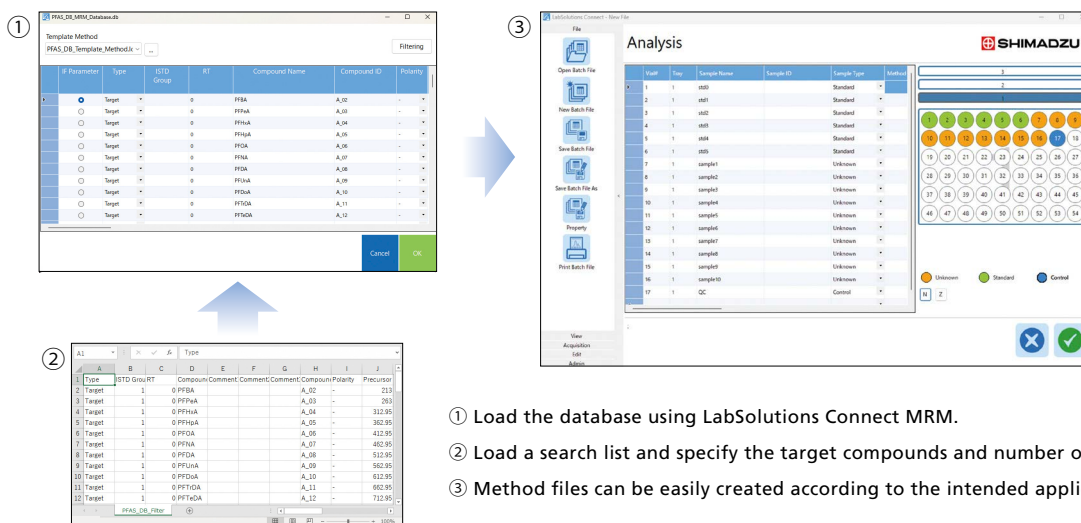
The LC/MS/MS PFAS database contains optimized MRM transitions and acquisition parameters for PFAS analysis across environmental, food, and related matrices.

The database contains MRM acquisition parameters for 80 target analytes and 44 internal standards, including optimized transitions and collision voltages.

Targets (80 components)					Internal Standards (44 components)		
PFPrA	PFPeS	NMeFBSA	3:3 FTCA	8:8PFPI/A	13C3-PFBA	13C2-PFtEDA	d7-NMeFOSE
PFBA	PFHxS	NMeFOSA	5:3 FTCA	PFHxPA	13C4-PFBA	13C2-PFHxDA	d9-NetFOSE
PFPeA	PFHpS	NetFOSA	7:3 FTCA	PFOPA	13C5-PFPeA	13C3-PFBS	13C3-HFPO-DA
PFHxA	PFOS	NMeFOSAA	6:2 FTCA	PFDA	13C2-PFHxA	13C3-PFHxS	13C2-6:2PAP
PFHpA	PFNS	NetFOSAA	8:2 FTCA	Cl-PFHxPA	13C5-PFHxA	13C6-PFHxS	13C2-8:2PAP
PFOA	PFDS	NMeFOSE	10:2 FTCA	Cl-PFOPA	13C4-PFHpA	18O2-PFHxS	13C4-8:2PAP
PFNA	PFUnDS	NetFOSE	6:2 FTUCA	FOSAA	13C2-PFOA	13C4-PFOS	13C2-6:2FTUCA
PFDA	PFDoS	9CI-PF3ONS	8:2 FTUCA	HQ-115	13C4-PFOA	13C8-PFOS	13C2-8:2FTUCA
PFUnA	PFTrDS	11CI-PF3OUdS	10:2 FTUCA	Capstone A	13C8-PFOA	13C2-4:2FTS	13C2-10:2FTUCA
PFDoA	4:2 FTS	ADONA	PFECHS	Capstone B	13C5-PFNA	13C2-6:2FTS	13C2-6:2FTCA
PFTrDA	6:2 FTS	HFPO-DA	6:2PAP	5:1:2 FTB	13C9-PFNA	13C2-8:2FTS	13C2-8:2FTCA
PFTEDA	8:2 FTS	HFPO-TA	8:2PAP	5:3 FTB	13C2-PFDA	13C8-PFOA	13C2-10:2FTCA
PFHxDA	10:2 FTS	NFDHA	6:2diPAP	4:2 FTOH	13C6-PFDA	d3-NMeFOSA	
PFOcDA	PFOSA	PFMPA	8:2diPAP	6:2 FTOH	13C2-PFUnA	d5-NetFOSA	
PFPrS	FBSA	PFMBA	6:6PFPI/A	8:2 FTOH	13C7-PFUnA	d3-NMeFOSAA	
PFBS	FHxSA	PFEESA	6:8PFPI/A	10:2 FTOH	13C2-PFDoA	d5-NetFOSAA	

Supports Method Development Using LabSolutions Connect MRM

The analyte acquisition parameters included in this product can be managed using LabSolutions Connect MRM (optional). By importing a text file containing target analyte information, LabSolutions Connect MRM automatically retrieves the required data from the database, enabling easy creation of new analytical methods. This product includes both a database file (.db) and a searchable text file (.csv). The database can be customized to meet specific analytical needs, making it suitable for PFAS analysis across a wide range of application fields.



System Requirements

1. LabSolutions LCMS Ver. 5.135 SP1 or later.
2. LabSolutions Connect MRM Ver. 3.2 or later.



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