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| Target class |  | | | Target Analyte |  |
| Structure | **Name** | | | **Acronym** | **Molecular formula** |
| *Perfluoroalkyl carboxylic acids* (PFCAs) | *Perfluorobutanoate* | | | PFBA | C4F7O2H |
| *Perfluoropentanoate* | | | PFPeA (*n*=4) | C4F7O2H |
| *Perfluorohexanoate* | | | PFHxA (*n*=5) | C6F11O2H |
| *Perfluoroheptanoate* | | | PFHpA (*n*=6) | C7F13O2H |
| *Perfluorooctanoate* | | | PFOAl+br (*n*=7) | C8F15O2H |
| *Perfluorononanoate* | | | PFNA (*n*=8) | C9F17O2H |
| *Perfluorodecanoate* | | | PFDA (*n*=9) | C10F19O2H |
| *Perfluoroundecanoate* | | | PFUnDA (*n*=10) | C11F21O2H |
| *Perfluorododecanoate* | | | PFDoDA (*n*=11) | C12F23O2H |
| *Perfluorotridecanoate* | | | PFTrDA (*n*=12) | C13F25O2H |
| *Perfluorotetradecanoate* | | | PFTeDA (*n*=13) | C14F27O2H |
| *Perfluoropentadecanoate* | | | PFPeDA (*n*=14) | C15F29O2H |
| *Perfluorohexadecanoate* | | | PFHxDA | C16F31O2H |
| *Perfluorooctadecanoate* | | | PFOcDA | C18F35O2H |
| PFSAs | *Perfluorobutane sulfonate* | | | PFBS (*n*=4) | C4F9SO3H |
| *Perfluoropentane sulfonate* | | | PFPeS\_80 | C5F11SO3H |
| *Perfluorohexane sulfonate* | | | PFHxSl+br (*n*=6) | C6F13SO3H |
| *Perfluoroheptane sulfonate* | | | PFHpS (*n*=7) | C7F15SO3H |
| *Perfluorooctane sulfonate* | | | PFOSl+br (*n*=8) | C8F17SO3H |
| *Perfluorononane sulfonate* | | | PFNS (*n*=9) | C9F19SO3H |
| *Perfluorodecane sulfonate* | | | PFDSl+br (*n*=10) | C10F21SO3H |
| *Perfluoroundecane sulfonate* | | | PFUnDS (*n*=11) | C11F23SO3H |
| FASAs | *Perfluorooctane sulfonamide* | | | FOSAl+br (*X*=H) | C8F17SO2NH2 |
| *Perfluorooctane sulfonamide acetate* | | | FOSAAl+br (*X*=CH2COOH) |  |
| *N-Methyl perfluorooctane sulfonamide acetate* | | | MeFOSAAl+br(*X*=CH(CH3)COOH) |  |
| *N-Ethyl perfluorooctane sulfonamide acetate* | | | EtFOSAAl+br(*X*=CH(C2H5)COOH) |  |
|  | | *4,8-dioxa-3H-perfluorononaoate* | | 9Cl-PF3ONS (*n*=6) |  |
|  | | 11Cl-PF3OUdS (*n*=8) |  |
|  | |  | | HFPO-DA |  |
|  | |  | | NaDONA |  |
| FTCAs |  | | | 3:3 FTCA (*n*=3) |  |
|  | | | 5:3 FTCA (*n*=5) |  |
|  | | | 7:3 FTCA *(n*=7) |  |
| FTSAs |  | | | 4:2 FTS (*n*=4) |  |
|  | | | 6:2 FTS (*n*=6) |  |
|  | | | 8:2 FTS (*n*=8) |  |
| d/C PFSAs (double bond  PFSA's)    ether PFSAs (can be more than one ether)    enol-ether-, cyclic- ether- or carbonyl- PFSAs | | |  | Perfluoroethylcyclohexane sulfonic acid (PFECHS) |  |

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| Target Analyte | Precursor ion (m/z) |  | Molecular structure |
| PFBA  *Perfluorobutanoate* | 213 |  |  |
| PFPeA  *Perfluoropentanoate* | 263 |  |  |
| PFHxA  *Perfluorohexanoate* | 313 |  |  |
| PFHpA  *Perfluoroheptanoate* | 363 |  |  |
| PFOAl+br  *Perfluorooctanoate* | 413 |  |  |
| PFNA  *Perfluorononanoate* |  |  |  |
| PFDA  *Perfluorodecanoate* | 463 |  |  |
| PFUnDA  *Perfluoroundecanoate* | 513 |  |  |
| PFDoDA  *Perfluorododecanoate* | 563 |  |  |
| PFTrDA  *Perfluorotridecanoate* | 613 |  |  |
| PFTeDA  *Perfluorotetradecanoate* | 662.9 |  |  |
| PFPeDA  *Perfluoropentadecanoate* | 712.9 |  |  |
| PFBS  *Perfluorobutane sulfonate* | 762.9 |  |  |
| PFHxSl+br  *Perfluorohexane sulfonate* | 298.9 |  |  |
| PFHpS  *Perfluoroheptane sulfonate* | 399 |  |  |
| PFOSl+br  *Perfluorooctane sulfonate* |  |  |  |
| PFNS  *Perfluorononane sulfonate* | 449 |  |  |
| PFDSl+br  *Perfluorodecane sulfonate* | 498.9 |  |  |
| PFUnDS  *Perfluoroundecane sulfonate* |  |  |  |
| FOSAl+br  *Perfluorooctane sulfonamide* | 548.9 |  |  |
| FOSAAl+br  *Perfluorooctane sulfonamide acetate* | 598.9 |  |  |
| MeFOSAAl+br  *N-Methyl perfluorooctane sulfonamide acetate* | 599 |  |  |
| EtFOSAAl+br  *N-Ethyl perfluorooctane sulfonamide acetate* | 648.9 |  |  |
| 9Cl-PF3ONS | 498 |  |  |
| 11Cl-PF3OUdS |  |  |  |
| DONA  *4,8-dioxa-3H-perfluorononaoate* | 556 |  |  |
| HFPO-DA |  |  |  |
| FPrPA | 570 |  |  |
| FPePA |  |  |  |
| FHpPA | 584 |  |  |
| 4:2 FTS |  |  |  |
| 6:2 FTS | 531 |  |  |
| 8:2 FTS | 631 |  |  |
|  | 377 |  |  |
|  | 329 |  |  |
|  | 241 |  |  |
|  | 341 |  |  |
|  | 441 |  |  |
|  | 327 |  |  |
|  | 427 |  |  |
|  | 527 |  |  |

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| *Perfluorobutanoate* |
| *Perfluoropentanoate* |
| *Perfluorohexanoate* |
| *Perfluoroheptanoate* |
| *Perfluorooctanoate* |
| *Perfluorononanoate* |
| *Perfluorodecanoate* |
| *Perfluoroundecanoate* |
| *Perfluorododecanoate* |
| *Perfluorotridecanoate* |
| *Perfluorotetradecanoate* |
| *Perfluoropentadecanoate* |
| *Perfluorobutane sulfonate* |
| *Perfluorohexane sulfonate* |
| *Perfluoroheptane sulfonate* |
| *Perfluorooctane sulfonate* |
| *Perfluorononane sulfonate* |
| *Perfluorodecane sulfonate* |
| *Perfluoroundecane sulfonate* |
| *Perfluorooctane sulfonamide* |
| *Perfluorooctane sulfonamide acetate* |
| *N-Methyl perfluorooctane sulfonamide acetate* |
| *N-Ethyl perfluorooctane sulfonamide acetate* |
| *4,8-dioxa-3H-perfluorononaoate* |