



# Detection of PFAS contaminants using Millipore® AP-40 glass fiber filters as the particulate filter fraction in the sampling train for OTM-45 testing of PFAS compounds in air emissions from stationary sources.

| Compound                        | Abbreviation | RL (ng/<br>sample) | Millipore® AP-40 Glass Fiber Filters |                                 | Competitor Disc<br>Filter       |
|---------------------------------|--------------|--------------------|--------------------------------------|---------------------------------|---------------------------------|
|                                 |              |                    | Lot 1,<br>per disc <sup>a</sup>      | Lot 2,<br>per disc <sup>a</sup> | Lot 1,<br>per disc <sup>a</sup> |
| Perfluoroalkyl Carboxylic Acids |              |                    |                                      |                                 |                                 |
| Perfluoro-n-heptanoic acid      | PFHpA        | 1.00               | ND <sup>b</sup>                      | ND <sup>b</sup>                 | ND <sup>b</sup>                 |
| Perfluoro-n-butanoic acid       | PFBA         | 2.00               | ND                                   | ND                              | ND                              |
| Perfluoro-n-pentanoic acid      | PFPeA        | 1.00               | ND                                   | ND                              | ND                              |
| Perfluoro-n-hexanoic acid       | PFHxA        | 1.00               | ND <sup>b</sup>                      | ND <sup>b</sup>                 | ND                              |
| Perfluoro-n-octanoic acid       | PFOA         | 1.00               | ND                                   | ND                              | ND                              |
| Perfluoro-n-nonanoic acid       | PFNA         | 1.00               | ND                                   | ND                              | ND                              |
| Perfluoro-n-decanoic acid       | PFDA         | 1.00               | ND                                   | ND                              | ND                              |
| Perfluoro-n-undecanoic acid     | PFUnDA       | 1.00               | ND                                   | ND                              | ND                              |
| Perfluoro-n-dodecanoic acid     | PFDoDA       | 1.00               | ND                                   | ND                              | ND                              |
| Perfluoro-n-tridecanoic acid    | PFTTrDA      | 1.00               | ND                                   | ND                              | ND                              |
| Perfluoro-n-tetradecanoic acid  | PFTeDA       | 1.00               | ND                                   | ND                              | ND                              |
| Perfluorohexadecanoic           | PFHxDA       | 1.00               | ND                                   | ND                              | ND                              |
| Perfluorooctadecanoic           | PFODA        | 1.00               | ND                                   | ND                              | ND                              |

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|-----------------------------------|--------------|--------------------|--------------------------------------|---------------------------------|---------------------------------|
|                                   |              |                    | Lot 1,<br>per disc <sup>a</sup>      | Lot 2,<br>per disc <sup>a</sup> | Lot 1,<br>per disc <sup>a</sup> |
| Perfluoroalkyl Sulfonic Acids     |              |                    |                                      |                                 |                                 |
| Perfluoro-n-butanesulfonic acid   | PFBS         | 1.00               | ND                                   | ND                              | ND                              |
| Perfluoro-n-pentanesulfonic acid  | PFPeS        | 1.00               | ND                                   | ND                              | ND                              |
| Perfluoro-n-hexanesulfonic acid   | PFHxS        | 1.00               | ND                                   | ND                              | ND                              |
| Perfluoro-n-heptanesulfonic acid  | PFHpS        | 1.00               | ND                                   | ND                              | ND                              |
| Perfluoro-n-octanesulfonic acid   | PFOS         | 1.00               | ND <sup>b</sup>                      | ND <sup>b</sup>                 | ND <sup>b</sup>                 |
| Perfluoro-n-nonanesulfonic acid   | PFNS         | 1.00               | ND                                   | ND                              | ND                              |
| Perfluoro-n-decanesulfonic acid   | PFDS         | 1.00               | ND                                   | ND                              | ND                              |
| Perfluoro-n-dodecanesulfonic acid | PFDoS        | 1.00               | ND                                   | ND                              | ND                              |

<sup>a</sup>Values represent concentration of PFAS analytes on a per disc basis from an extraction of n=3 discs; <sup>b</sup> Concentration per disc estimated to be between RL and method detection limit (MDL)

**Abbreviations:** RL = reporting limit (ppb); ND = not detected above the reporting limit (RL)



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