GC Application ID No.: 16095

EPA 1613 Polychlorinated Dibenzofurans

Column: Phase:	Zebron™ ZB-5MS, GC Cap. Column 60 m x 0.25 mm x 0.25 µm, Ea 5% Phenyl-Arylene 95% Dimethylpolysiloxane
Dimensions:	60 meters x 0.25 mm x 0.25 μm
Order No:	7KG-G010-11
Oven Profile:	120°C for 1 min to 220°C at 20°C/min for 16 min to 235°C at 5°C/min for 7 min to 300°C at 5°C/min for 15 min
Carrier Gas:	Constant Flow Helium, 26 cm/sec
Injection:	Splitless :1 2 µL @ 250°C
Detection:	High Res Mass Spec (HRMS) (290°C)
Analyst Note:	Notes: Flow 26cm/sec @ 200°C. Only selected chromatograms shown below. For the complete set of Single Ion Chromatograms, showing both Polychlorinated Dibenzo-p-dioxins and Polychlorinated Dibenzofurans, please contact your Phenomenex Technical Consultant.

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Products used in this application:



16095 m/z 303.9016 m/z 339.8597 28.0 30.0 34.0 35.0 35.0 36.0 37.0 41.0 42.0 27.0 29.0 31.0 32.0 33.0 38.0 39.0 40.0 m/z 373.8207 m/z 407.7818 11 17 12 13, 14 10 15, 16 18 9 42.0 43.0 44.0 46.0 47.0 48.0 49.0 50.0 51.0 52.0 45.0

Mass Chromatograms are courtesy of V.N. Fishman, G.D. Martin, and L.L. Lamparski, The Dow Chemical Company,

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EPA 1613 Polychlorinated Dibenzofurans

ANALYTES:

- 1 1,3,6,8-TCDF
- 2 2,3,4,7-TCDF
- 3 2,3,7,8-TCDF / possible unknown TCDF
- 1,2,8,9-TCDF 4
- 5 1,3,4,6,8/1,2,4,6,8-PnCDF
- 1,2,3,7,8-PnCDF 6
- 7 2,3,4,7,8-PnCDF / unknown PnCDF
- 8 1,2,3,8,9-PnCDF
- **9** 1,2,3,4,6,8-HxCDF
- **10** 1,2,3,4,6,7-HxCDF
- **11** 1,2,3,4,7,8-HxCDF
- **12** 1,2,3,6,7,8-HxCDF
- **13** 1,2,3,6,8,9-HxCDF
- **14** 2,3,4,6,7,8-HxCDF
- **15** 1,2,3,7,8,9-HxCDF
- 16 1,2,3,4,8,9-HxCDF
- **17** 1,2,3,4,6,7,8-HpCDF
- **18** 1,2,3,4,7,8,9-HpCDF

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