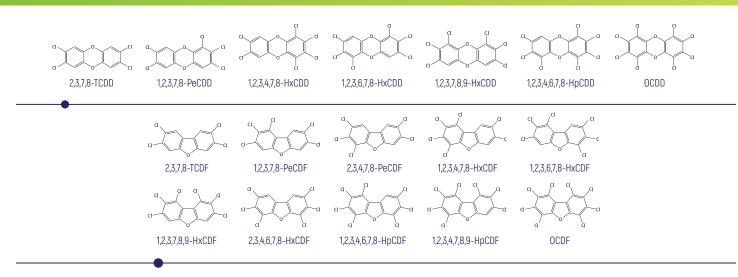
SERVICES SUMMARY 8280M

TESTING FOR POLYCHLORINATED DIBENZO-P-DIOXINS AND DIBENZOFURANS BY HIGH RESOLUTION GC/MS: EPA METHOD 8280M



METHOD	CONGENERS	DESCRIPTION	MATRIX	RL/PQL ¹	TAT ²	CONTAINER	PRESERVATION*	HOLD TIMES ³	MIN VOLUME
8280M	PCDD/PCDFs (Tetra - Octa)	Low resolution GC/MS 17 Dioxin/Furan congeners and Totals All Matrices	Water	10-50 ng/L	- 10 Days	Two 1-Liter (AG)	- Refrigerate <6° C Unpreserved	30 Days	100 mL
			Solid	1.0-5.0 µg/Kg		One 4-8 oz (AG) Aluminum Foil			1 g
8280M	2,3,7,8 TCDD Only	Low resolution GC/MS 2,3,7,8 Tetrachlorodibenzo-p-dioxin only All matrices	Water	10 ng/L	10	Two 1-Liter (AG)		30 Days	100 mL
			Solid	1.0 µg/Kg	Days	One 4-8 oz (AG)			1g
1. RLs/PQLs subject to change, please contact lab for current limits.				3. Some State or Federal agencies may have alternative hold times and those must be met.					
2. Standard TAT is measured by business days – rush/customized TAT may be available by prearrangement.				*All methods require samples to remain in darkness or out of direct contact with sunlight.					

METHOD OVERVIEW

This SW846 method provides procedures for the detection and quantitative measurement of (7) polychlorinated dibenzo-p-dioxins and (10) polychlorinated dibenzofurans (tetra through octa) in a variety of environmental matrices including: solid, aqueous, ash, etc. For optimal sensitivity and selectivity, Pace® Analytical uses a modified approach to report 8280M, by using some elements of the 8290 methodology on a lower sample volume. Method 8280M is normally utilized in conjunction with RCRA regulatory action in support of remediation activities, as the method of choice for incinerator ash characterization, and in Appendix 9 analysis (tetra-hexa) of groundwater samples.

METHOD DETECTION LIMITS

Actual detection limits achieved by method 8280M will vary according to the sample matrix and by homologue group but to be valid, must meet the requirements of the method. In order to achieve lower detection limits, sample extracts must undergo an extensive cleanup process prior to analysis in order to remove interferences. For a complete list of reportable analytes and current limits, please contact Pace[®] Analytical.

METHOD QAQC:

CERTIFICATIONS:

 Labeled internal standard recoveries are continuously monitored to ensure data quality and method compliance.

- Lab Blanks - 1 per 20 samples.

NELAC · Multiple States ISO/IEC 17025: 2017

INSTRUMENTATION:

3 – GC/HRMS – Autospec Ultima High Resolution Mass Spectrometers

3 – GC/HRMS – Autospec Premier High Resolution Mass Spectrometers

SAMPLE MATRICES:

Waste Water • Ground Water Soil/Sediment

Hazardous Waste • Fly Ash