



Method Detection Reporting Limits

Method 8290

Water



Analyte	Method Detection Limit (ppq)	Reporting Limit (ppq)	LCS Criteria Lower Control Limit (%)	LCS Criteria Upper Control Limits (%)	% RPD Limit
2,3,7,8-TCDF	1.8	10	70	130	20
2,3,7,8-TCDD	1.9	10	70	130	20
1,2,3,7,8-PeCDF	1.8	50	70	130	20
2,3,4,7,8-PeCDF	1.9	50	70	130	20
1,2,3,7,8-PeCDD	2.5	50	70	130	20
1,2,3,4,7,8-HxCDF	3.0	50	70	130	20
1,2,3,6,7,8-HxCDF	3.4	50	70	130	20
2,3,4,6,7,8-HxCDF	1.8	50	70	130	20
1,2,3,7,8,9-HxCDF	2.7	50	70	130	20
1,2,3,4,7,8-HxCDD	3.8	50	70	130	20
1,2,3,6,7,8-HxCDD	3.7	50	70	130	20
1,2,3,7,8,9-HxCDD	2.6	50	70	130	20
1,2,3,4,6,7,8-HpCDF	2.1	50	70	130	20
1,2,3,4,7,8,9-HpCDF	2.7	50	70	130	20
1,2,3,4,6,7,8-HpCDD	3.2	50	70	130	20
OCDF	4.8	100	70	130	20
OCDD	21	100	70	130	20

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ppq = Parts Per Quadrillion (pg/L)

Detection limits and reporting limits assume that a 1 liter aliquot of sample is extracted and that 5% of the final extract is injected into the instrument for analysis. Actual detection limits will depend upon the specific levels of chemical interferences that are present in the samples.

Reporting limits are based on analyte concentrations in the final extract equivalent to 20% of those in the lowest concentration initial calibration standard or upon the limit of detection, whichever is higher.