High Resolution Mass Spectrometry | Dioxin/Furans | Dioxin-like PCBs | PCB Congeners

METHOD	CONGENERS	DESCRIPTION	MATRIX	RL/PQL[1]	TAT[2]	CONTAINER	PRESERVATION*	HOLD TIMES[3]	MIN VOLUME
1613B	2,3,7,8 TCDD Only	2,3,7,8 Tetrachlorodibenzo-p-dioxin **only** | Drinking Water	DW	5 pg/L	5 Days	Two 1-Liter (AG)	Refrigerate <6° C Sodium Thiosulfate	Up to 1 year[2]	1 L
1613B	2,3,7,8 TCDD Only	2,3,7,8 Tetrachlorodibenzo-p-dioxin **only** | All matrices	Water	10 pg/L	10 Days	Two 1-Liter (AG)	Refrigerate <6° C Unpreserved	Up to 1 year	1 L
			Solid	1.0 ng/Kg		One 4-8 oz (AG)			25 g
			Tissues	1.0 ng/Kg		Aluminum Foil	Freeze		25 g
1613B	PCDDs/PCDFs (Tetra - Octa)	Polychlorinated dibenzo-p-Dioxins / Polychlorinated dibenzofurans | 17 Dioxin/Furan congeners and Totals | All Matrices	Water	10-100 pg/L	10 Days	Two 1-Liter (AG)	Refrigerate <6° C Unpreserved	Up to 1 year	1 L
			Solid	1-10 ng/Kg		One 4-8 oz (AG)			25 g
			Tissues	1-10 ng/Kg		Aluminum Foil	Freeze		25 g
8290A	2,3,7,8 TCDD Only	2,3,7,8 Tetrachlorodibenzo-p-dioxin **only** | All matrices	Water	10 pg/L	10 Days	Two 1-Liter (AG)	Refrigerate <6° C Unpreserved	30 Days	1 L
			Solid	1.0 ng/Kg		One 4-8 oz (AG)			25 g
			Tissues	1.0 ng/Kg		Aluminum Foil	Freeze		25 g
8290A	PCDDs/PCDFs (Tetra - Octa)	Polychlorinated dibenzo-p-Dioxins / Polychlorinated dibenzofurans | 17 Dioxin/Furan congeners and Totals | All Matrices	Water	10-100 pg/L	10 Days	Two 1-Liter (AG)	Refrigerate <6° C Unpreserved	30 Days	1 L
			Solid	1-10 ng/Kg		One 4-8 oz (AG)			25 g
			Tissues	1-10 ng/Kg		Aluminum Foil	Freeze		25 g
8280M	PCDD/PCDFs (Tetra - Hexa)	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	1 L
			Solid	1.0-5.0 µg/Kg		One 4-8 oz (AG)			25 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 Days	Two 1-Liter (AG)	Refrigerate <6° C Unpreserved	30 Days	1 L
			Solid	1.0 µg/Kg		One 4-8 oz (AG)			25 g
Method 23[4]	PCDDs/PCDFs	Stack Testing | 17 Dioxin/Furan congeners and Totals	AIR	0.01-0.1 ng/S	10 Days	XAD-II	Refrigerate <6° C	30 Days	per method
TO-9[4]	PCDDs/PCDFs	Ambient Air | 17 Dioxin/Furan congeners and Totals	AIR	10-100 pg/S	10 Days	High Vol PUF/Filter	Refrigerate <6° C	7 Days	per method
METHOD	**CONGENERS**	**DESCRIPTION**	**MATRIX**	**RL/PQL[1]**	**TAT[2]**	**CONTAINER**	**PRESERVATION***	**HOLD TIMES[3]**	**MIN VOLUME**
1668A&C	PCB WHO Congeners	WHO List | 12 PCB congeners {I.E. Dioxin-like PCBs}	Water	50-300 pg/L	10 Days	Two 1-Liter (AG)	Refrigerate <6° C Unpreserved	Up to 1 year	1 L
			Solid	5-30 ng/Kg		One 4-8 oz (AG)			25 g
			Tissues	5-30 ng/Kg		Aluminum Foil	Freeze		25 g
1668A&C	PCB 209 Congeners	209 PCB congeners and Totals | All matrices	Water	0.25-2.5 ng/L	15 Days	Two 1-Liter (AG)	Refrigerate <6° C Unpreserved	Up to 1 year	1 L
			Solid	25-250 ng/Kg		One 4-8 oz (AG)			25 g
			Tissues	25-250 ng/Kg		Aluminum Foil	Freeze		25 g
1668- TMDL	PCB 209 Congeners	Total Maximum Daily Load | 209 PCB congeners and Totals {E.g. TMDL / DRBC / VADEQ / Impaired Waters}	Water	<0.01-0.1 ng/L	15 Days	Two 2-Liter (AG)	Refrigerate <6° C Unpreserved	Up to 1 year	2 L
1614[5]	Mono - Deca	PBDE's 49 compounds	TBD		Inquire		Refrigerate <6° C	Up to 1 year	Inquire

Notes

[1] RLs/PQLs subject to change, please contact lab for current values.
[2] Standard TAT is measured by business days – rush/customized TAT may be available by prearrangement.
[3] Some State or Federal agencies may have alternative hold times and those must be met.
[4] Sample Train preparation fee will be charged separately. Air samples can be calculated by "per sample," or by recorded volume sampled.
[5] Method 1614 is currently under development. Please inquire with laboratory manager for further assistance.

RL/PQL = Standard reporting limit; quantitation limit | AG= Amber Glass;

*All methods require samples to remain in darkness or out of direct contact with sunlight.

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