

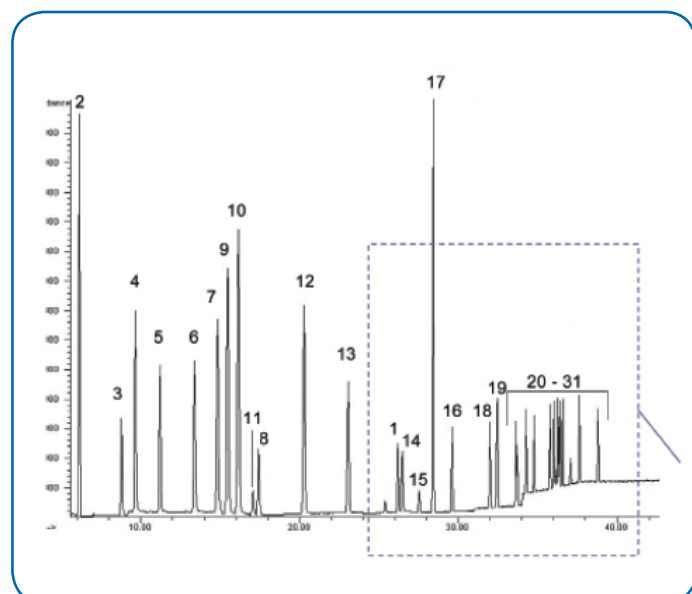
## Application Note

### Environmental

## Determination of halogenated hydrocarbons in water

SCION-624MS columns separate 31 halogenated hydrocarbon pollutants in less than 40 minutes.

Conditions	
Column	SCION-624MS, 0.32 mm x 60 m, df = 1.8 µm (Part no. SC32595)
Oventemp	45 °C (10 min) → 2 °C/min → 70 °C → 6 °C/min → 160 °C → 1 °C/min → 170 °C → 30 °C/min → 200 °C
Carrier Gas	Helium, 0.5 mL/min, 55 kPa
Injection	Headspace: 14 mL Sample + 7g Na <sub>2</sub> S <sub>04</sub> in 20 mL Vial, 80 °C, 30 min
Injector	Split: 0.6:1, T = 170 °C
Sample Size	MS, T = 230 °C
Sample Matrix	Water
Concentration	Ca. 1 - 15 µg/L,



### Peak Identification

2	trichloro uoromethane	17	tetrachloroethene
3	dichloromethane	18	ethylbenzene
4	trans-1,2-dichloroethene	19	m/p-xylene
5	1,1-dichloroethane	20	bromoform
6	cis-1,2-dichloroethene	21	styrene
7	chloroform	22	1,1,2,2-tetrachloroethane
8	1,2-dichlorethane	23	n-propylbenzene
9	1,1,1-trichloroethane	24	isopropylbenzene/cumene
10	tetrachloromethane	25	n-propylbenzene
11	benzene	26	3-ethyltoluene
12	trichlorethane	27	4-ethyltoluene
13	bromodichloromethane	28	1,3,5-trimethylbenzene
14	toluene	29	2-ethyltoluene
15	trichloronitromethane	30	1,2,4-trimethylbenzene
16	dibromochloromethane	31	31. 1,2,3-trimethylbenzene