

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120225\
 Data File : VN088409.D
 Acq On : 02 Dec 2025 15:22
 Operator : JC\MD
 Sample : Q3530-07 0.5PPB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2025

Quant Time: Dec 03 03:43:24 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/03/2025
 Supervised By : Mahesh Dadoda 12/03/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.206	168	253616	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.077	114	489861	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	424226	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	191162	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	259789	54.376	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 108.760%			
35) Dibromofluoromethane	8.147	113	168101	49.518	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 99.040%			
50) Toluene-d8	10.541	98	604575	47.864	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 95.720%			
62) 4-Bromofluorobenzene	12.829	95	197063	45.470	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 90.940%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.148	85	1663	0.437	ug/l	80
3) Chloromethane	2.389	50	2119	0.518	ug/l #	86
4) Vinyl Chloride	2.536	62	1879	0.451	ug/l #	76
5) Bromomethane	2.977	94	972	0.485	ug/l #	81
6) Chloroethane	3.148	64	1393	0.541	ug/l #	73
7) Trichlorofluoromethane	3.512	101	2919	0.499	ug/l #	82
8) Diethyl Ether	3.959	74	1185	0.540	ug/l #	39
9) 1,1,2-Trichlorotrifluo...	4.365	101	1325	0.425	ug/l #	85
10) Methyl Iodide	4.595	142	1140m	0.370	ug/l	
11) Tert butyl alcohol	5.524	59	1485	1.947	ug/l #	72
12) 1,1-Dichloroethene	4.330	96	1660	0.536	ug/l #	53
13) Acrolein	4.171	56	1490	2.040	ug/l	97
14) Allyl chloride	5.006	41	2436m	0.425	ug/l	
15) Acrylonitrile	5.712	53	4307	1.957	ug/l #	73
16) Acetone	4.436	43	7841	4.538	ug/l	93
17) Carbon Disulfide	4.706	76	4833	0.478	ug/l #	76
18) Methyl Acetate	5.036	43	2314m	0.450	ug/l	
19) Methyl tert-butyl Ether	5.794	73	5132	0.443	ug/l	96
20) Methylene Chloride	5.259	84	1880m	0.509	ug/l	
21) trans-1,2-Dichloroethene	5.765	96	1667	0.486	ug/l #	75
22) Diisopropyl ether	6.653	45	5122	0.418	ug/l #	68
23) Vinyl Acetate	6.583	43	22587m	2.290	ug/l	
24) 1,1-Dichloroethane	6.553	63	3412	0.492	ug/l #	83
25) 2-Butanone	7.477	43	6984	2.514	ug/l	97
26) 2,2-Dichloropropane	7.483	77	2871m	0.480	ug/l	
27) cis-1,2-Dichloroethene	7.465	96	1844	0.463	ug/l	93
28) Bromochloromethane	7.788	49	1579m	0.457	ug/l	
29) Tetrahydrofuran	7.824	42	4042	2.029	ug/l	93
30) Chloroform	7.941	83	3176	0.466	ug/l	99
31) Cyclohexane	8.206	56	10259	1.633	ug/l #	46
32) 1,1,1-Trichloroethane	8.153	97	3165	0.528	ug/l #	22
36) 1,1-Dichloropropene	8.347	75	2281	0.435	ug/l #	62
37) Ethyl Acetate	7.535	43	3447	0.500	ug/l #	72
38) Carbon Tetrachloride	8.335	117	2413	0.463	ug/l #	79
39) Methylcyclohexane	9.577	83	2893	0.516	ug/l	94
40) Benzene	8.582	78	6999	0.455	ug/l	93

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.759	41	1924	0.564	ug/l #	61
42) 1,2-Dichloroethane	8.659	62	2850m	0.486	ug/l	
43) Isopropyl Acetate	8.671	43	4324	0.411	ug/l #	93
44) Trichloroethene	9.335	130	1930	0.531	ug/l	90
45) 1,2-Dichloropropane	9.606	63	1900	0.482	ug/l #	74
46) Dibromomethane	9.694	93	1257	0.447	ug/l #	79
47) Bromodichloromethane	9.859	83	2670	0.465	ug/l #	94
48) Methyl methacrylate	9.665	41	1899	0.395	ug/l #	76
49) 1,4-Dioxane	9.694	88	237	3.881	ug/l #	37
51) 4-Methyl-2-Pentanone	10.424	43	10690	1.723	ug/l	97
52) Toluene	10.606	92	4261	0.480	ug/l	99
53) t-1,3-Dichloropropene	10.812	75	2224	0.378	ug/l	95
54) cis-1,3-Dichloropropene	10.294	75	2318	0.374	ug/l #	74
55) 1,1,2-Trichloroethane	10.988	97	1638	0.477	ug/l #	74
56) Ethyl methacrylate	10.859	69	1540	0.284	ug/l #	84
57) 1,3-Dichloropropane	11.141	76	2680	0.432	ug/l #	78
58) 2-Chloroethyl Vinyl ether	10.147	63	4490	1.435	ug/l	92
59) 2-Hexanone	11.218	43	6245m	1.598	ug/l	
60) Dibromochloromethane	11.335	129	1923	0.491	ug/l	94
61) 1,2-Dibromoethane	11.447	107	1643	0.472	ug/l	83
64) Tetrachloroethene	11.088	164	1529	0.455	ug/l #	80
65) Chlorobenzene	11.871	112	4905	0.515	ug/l #	85
66) 1,1,1,2-Tetrachloroethane	11.935	131	1685	0.524	ug/l #	55
67) Ethyl Benzene	11.941	91	6620	0.397	ug/l #	75
68) m/p-Xylenes	12.047	106	4925	0.798	ug/l	93
69) o-Xylene	12.382	106	1949	0.331	ug/l	75
70) Styrene	12.400	104	2797	0.293	ug/l #	85
71) Bromoform	12.553	173	1083	0.460	ug/l #	98
73) Isopropylbenzene	12.670	105	5683	0.402	ug/l	100
75) 1,1,2,2-Tetrachloroethane	12.912	83	2140	0.468	ug/l #	88
76) 1,2,3-Trichloropropane	12.976	75	1981m	0.442	ug/l	
77) Bromobenzene	12.953	156	1376	0.425	ug/l	87
78) n-propylbenzene	13.012	91	6796	0.393	ug/l	91
79) 2-Chlorotoluene	13.100	91	4733m	0.448	ug/l	
80) 1,3,5-Trimethylbenzene	13.153	105	4890	0.418	ug/l	98
82) 4-Chlorotoluene	13.206	91	4985	0.475	ug/l	85
83) tert-Butylbenzene	13.412	119	5461m	0.548	ug/l	
84) 1,2,4-Trimethylbenzene	13.459	105	4485	0.385	ug/l	86
85) sec-Butylbenzene	13.588	105	5461	0.382	ug/l	97
86) p-Isopropyltoluene	13.700	119	4129	0.352	ug/l	84
87) 1,3-Dichlorobenzene	13.706	146	2707	0.430	ug/l #	52
88) 1,4-Dichlorobenzene	13.788	146	3218	0.488	ug/l #	21
89) n-Butylbenzene	14.029	91	4201	0.369	ug/l	100
90) Hexachloroethane	14.317	117	1004	0.469	ug/l	96
91) 1,2-Dichlorobenzene	14.088	146	2656	0.448	ug/l	90
92) 1,2-Dibromo-3-Chloropr...	14.694	75	375m	0.338	ug/l	
93) 1,2,4-Trichlorobenzene	15.388	180	1365	0.388	ug/l	83
94) Hexachlorobutadiene	15.476	225	639	0.505	ug/l #	54
95) Naphthalene	15.611	128	4452	0.365	ug/l #	79
96) 1,2,3-Trichlorobenzene	15.823	180	1779	0.519	ug/l	84

(#) = qualifier out of range (m) = manual integration (+) = signals summed