

Data Path : Z:\voasrv\HPCHEM1\MSVOA_T\Data\VT102425\
 Data File : VT019180.D
 Acq On : 24 Oct 2025 15:29
 Operator : SY/MD
 Sample : MDL05
 Misc : 5.0mL/MSVOA_T/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_T
 ClientSampleId :
 MDL05

Quant Time: Oct 25 01:46:08 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_T\methods\624T102225W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 24 06:05:07 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.054	128	23205	30.000	ug/l	#-0.02
28) 1,4-Difluorobenzene	8.553	114	159543	30.000	ug/l	-0.02
57) Chlorobenzene-d5	11.731	117	129900	30.000	ug/l	-0.02
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.947	65	63927	31.445	ug/l	-0.02
Spiked Amount	30.000	Range	91 - 110	Recovery	=	104.800%
60) 4-Bromofluorobenzene	12.859	95	57986	28.402	ug/l	-0.03
Spiked Amount	30.000	Range	63 - 112	Recovery	=	94.667%
63) Toluene-d8	10.227	98	188124	29.754	ug/l	-0.03
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.167%
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.872	85	1627	2.555	ug/l	99
3) Chloromethane	2.107	50	3798m	2.598	ug/l	
4) Vinyl Chloride	2.189	62	4001	2.449	ug/l	92
5) Bromomethane	2.536	94	3770	2.779	ug/l	95
6) Chloroethane	2.677	64	3288	2.282	ug/l	99
7) Trichlorofluoromethane	2.977	101	6488	2.449	ug/l	86
8) Diethyl Ether	3.341	74	3582	2.196	ug/l	96
9) 1,1,2-Trichlorotrifluo...	3.658	101	3382m	3.251	ug/l	
10) 1,1-Dichloroethene	3.652	96	3203m	3.074	ug/l	
11) Methyl Iodide	3.858	142	1626	1.601	ug/l #	1
12) Methyl Acetate	4.210	43	7192	1.745	ug/l	93
13) Acrolein	3.523	56	1556m	11.196	ug/l	
14) Acrylonitrile	4.816	53	15487	12.193	ug/l #	66
15) Acetone	3.729	58	7608	16.813	ug/l	87
16) Carbon Disulfide	3.940	76	5214	2.679	ug/l	98
17) Allyl chloride	4.199	41	5753	2.323	ug/l	94
18) Methylene Chloride	4.410	84	5262	3.386	ug/l	92
19) trans-1,2-Dichloroethene	6.672	96	3989m	2.488	ug/l	
20) Diisopropyl ether	5.785	45	14710m	2.333	ug/l	
21) 1,1-Dichloroethane	5.668	63	7314	2.482	ug/l #	82
22) cis-1,2-Dichloroethene	6.672	96	3989m	2.488	ug/l	
23) tert-Butyl Alcohol	4.633	59	9047	16.258	ug/l #	100
24) Methyl tert-Butyl Ether	4.880	73	15438m	2.466	ug/l	
25) Chloroform	7.236	83	6544	2.428	ug/l	99
26) Cyclohexane	7.536	56	4877	2.821	ug/l #	69
29) 1,1-Dichloropropene	7.689	75	3960	2.372	ug/l	84
30) 2-Butanone	6.678	43	26882	13.064	ug/l	97
31) 2,2-Dichloropropane	6.661	77	6305	2.579	ug/l #	85
32) 1,1,1-Trichloroethane	7.454	97	5048	2.400	ug/l #	44
33) Carbon Tetrachloride	7.665	117	3034	2.251	ug/l #	95
34) Benzene	7.959	78	14721	2.380	ug/l #	7
35) Methacrylonitrile	7.054	41	4767m	2.722	ug/l	
36) 1,2-Dichloroethane	8.053	62	5166	2.253	ug/l	96
37) Trichloroethene	8.829	130	2583	2.270	ug/l	90
38) Methylcyclohexane	9.093	83	4387	2.609	ug/l	97
39) 1,2-Dichloropropane	9.140	63	3775	2.330	ug/l #	87
40) Dibromomethane	9.234	93	2193m	2.196	ug/l	
41) Bromodichloromethane	10.768	83	2932m	2.285	ug/l	
42) Vinyl Acetate	5.715	43	50878	10.078	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.772	43	8155m	2.411	ug/l	
44) Isopropyl Acetate	8.094	43	11815	2.219	ug/l	99
45) 1,4-Dioxane	9.246	88	2092	45.295	ug/l #	72
46) Methyl methacrylate	9.228	41	5193	2.182	ug/l	93
47) n-amyl Acetate	12.477	43	7747	2.162	ug/l	95
48) t-1,3-Dichloropropene	10.562	75	5259	2.259	ug/l	96
49) cis-1,3-Dichloropropene	9.951	75	5612	2.295	ug/l	98
50) 1,1,2-Trichloroethane	10.768	97	3255	2.216	ug/l #	78
51) Ethyl methacrylate	10.609	69	6031	2.191	ug/l	94
52) 1,3-Dichloropropane	10.932	76	6194	2.361	ug/l	97
53) Dibromochloromethane	11.150	129	2924	2.134	ug/l #	1
54) 1,2-Dibromoethane	11.267	107	2930	2.144	ug/l	92
55) 2-Chloroethyl vinyl ether	9.786	63	10407	12.961	ug/l	99
56) Bromoform	12.548	173	1715	1.904	ug/l #	37
58) 4-Methyl-2-Pentanone	10.110	43	34274	10.774	ug/l	97
59) 2-Hexanone	10.110	43	34274	10.774	ug/l #	84
61) Tetrachloroethene	10.844	164	2321	2.827	ug/l #	77
62) Toluene	10.309	91	14265	2.452	ug/l	98
64) Chlorobenzene	11.755	112	8489	2.389	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.843	131	2680	2.315	ug/l	96
66) Ethyl Benzene	11.843	91	14799	2.340	ug/l	94
67) m/p-Xylenes	11.972	106	11114	4.728	ug/l	99
68) o-Xylene	12.348	106	5964	2.458	ug/l	89
69) Styrene	12.360	104	9486	2.178	ug/l	95
70) Isopropylbenzene	12.689	105	14901	2.504	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.971	83	5735	2.456	ug/l	89
72) 1,2,3-Trichloropropane	13.030	75	4263m	2.473	ug/l	
73) Bromobenzene	13.006	156	3513	2.510	ug/l	68
74) n-propylbenzene	13.077	91	18407	2.565	ug/l	97
75) 2-Chlorotoluene	13.288	91	10923	2.486	ug/l	99
76) 1,3,5-Trimethylbenzene	13.229	105	11711	2.399	ug/l	95
77) t-1,4-Dichloro-2-butene	12.748	75	1498	1.789	ug/l	67
78) 4-Chlorotoluene	13.177	91	10733	2.477	ug/l	97
79) tert-butylbenzene	13.529	119	11120m	2.564	ug/l	
80) 1,2,4-Trimethylbenzene	13.582	105	12176	2.390	ug/l	97
81) sec-Butylbenzene	13.735	105	15240	2.439	ug/l	97
82) p-Isopropyltoluene	13.864	119	13385	2.575	ug/l	96
83) 1,3-Dichlorobenzene	13.870	146	6810	2.481	ug/l	97
84) 1,4-Dichlorobenzene	13.958	146	6545	2.369	ug/l	97
85) n-Butylbenzene	14.240	91	12256	2.576	ug/l	96
86) Hexachloroethane	14.551	117	1713m	2.459	ug/l	
87) 1,2-Dichlorobenzene	14.293	146	6634	2.420	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	14.986	75	1166m	2.273	ug/l	
89) 1,2,4-Trichlorobenzene	15.774	180	4251	2.547	ug/l #	94
90) Hexachlorobutadiene	15.891	225	1750m	3.162	ug/l	
91) Naphthalene	16.061	128	16141	2.502	ug/l #	93
92) 1,2,3-Trichlorobenzene	16.308	180	4477m	2.657	ug/l	

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

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