

Data Path : Z:\voasrv\HPCHEM1\MSVOA_T\Data\VT102425\
 Data File : VT019179.D
 Acq On : 24 Oct 2025 15:06
 Operator : SY/MD
 Sample : MDL04
 Misc : 5.0mL/MSVOA_T/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_T
 ClientSampleId :
 MDL04

Quant Time: Oct 25 01:45:02 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	22175	30.000	ug/l	#-0.02
28) 1,4-Difluorobenzene	8.552	114	152797	30.000	ug/l	-0.02
57) Chlorobenzene-d5	11.725	117	126775	30.000	ug/l	-0.03
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.941	65	61538	31.675	ug/l	-0.03
Spiked Amount	30.000	Range	91 - 110	Recovery	=	105.600%
60) 4-Bromofluorobenzene	12.859	95	58712	29.467	ug/l	-0.03
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.233%
63) Toluene-d8	10.233	98	184336	29.874	ug/l	-0.02
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.567%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.872	85	1642	2.698	ug/l	80
3) Chloromethane	2.072	50	3637m	2.604	ug/l	
4) Vinyl Chloride	2.189	62	3657m	2.342	ug/l	
5) Bromomethane	2.536	94	3828	2.952	ug/l	99
6) Chloroethane	2.671	64	3270	2.375	ug/l	98
7) Trichlorofluoromethane	2.976	101	6436	2.542	ug/l	99
8) Diethyl Ether	3.347	74	3615	2.319	ug/l	99
9) 1,1,2-Trichlorotrifluo...	3.664	101	3681	3.703	ug/l	86
10) 1,1-Dichloroethene	3.646	96	3666	3.681	ug/l	89
11) Methyl Iodide	3.858	142	1964m	2.024	ug/l	
12) Methyl Acetate	4.199	43	7527	1.911	ug/l	94
13) Acrolein	3.529	56	1486	11.189	ug/l	# 64
14) Acrylonitrile	4.821	53	14679	12.094	ug/l	97
15) Acetone	3.729	58	9199	21.273	ug/l	69
16) Carbon Disulfide	3.940	76	5251	2.823	ug/l	# 75
17) Allyl chloride	4.199	41	6565m	2.773	ug/l	
18) Methylene Chloride	4.410	84	4670	3.144	ug/l	# 85
19) trans-1,2-Dichloroethene	6.672	96	4277	2.792	ug/l	85
20) Diisopropyl ether	5.785	45	15104	2.507	ug/l	# 61
21) 1,1-Dichloroethane	5.679	63	7566	2.687	ug/l	# 94
22) cis-1,2-Dichloroethene	6.672	96	4277	2.792	ug/l	# 83
23) tert-Butyl Alcohol	4.633	59	9099m	17.111	ug/l	
24) Methyl tert-Butyl Ether	4.886	73	15488	2.588	ug/l	# 84
25) Chloroform	7.242	83	7024	2.727	ug/l	99
26) Cyclohexane	7.548	56	5073	3.070	ug/l	# 94
29) 1,1-Dichloropropene	7.689	75	3978	2.488	ug/l	93
30) 2-Butanone	6.672	43	26929	13.664	ug/l	# 96
31) 2,2-Dichloropropane	6.666	77	6207	2.652	ug/l	# 64
32) 1,1,1-Trichloroethane	7.448	97	5137	2.550	ug/l	# 83
33) Carbon Tetrachloride	7.665	117	3158m	2.447	ug/l	
34) Benzene	7.959	78	14309	2.416	ug/l	# 1
35) Methacrylonitrile	7.025	41	4122	2.457	ug/l	90
36) 1,2-Dichloroethane	8.047	62	5550	2.527	ug/l	# 87
37) Trichloroethene	8.829	130	2734	2.509	ug/l	99
38) Methylcyclohexane	9.099	83	4603	2.859	ug/l	98
39) 1,2-Dichloropropane	9.140	63	3695	2.382	ug/l	# 86
40) Dibromomethane	9.240	93	2361	2.468	ug/l	# 74
41) Bromodichloromethane	10.762	83	2946	2.398	ug/l	# 96
42) Vinyl Acetate	5.720	43	50886	10.524	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.772	43	8649	2.670	ug/l #	80
44) Isopropyl Acetate	8.100	43	12143	2.382	ug/l	99
45) 1,4-Dioxane	9.246	88	2256	51.003	ug/l #	44
46) Methyl methacrylate	9.234	41	5148	2.258	ug/l	80
47) n-amyl Acetate	12.477	43	7848	2.287	ug/l	99
48) t-1,3-Dichloropropene	10.562	75	5336	2.393	ug/l #	88
49) cis-1,3-Dichloropropene	9.945	75	5678	2.424	ug/l	92
50) 1,1,2-Trichloroethane	10.767	97	3492	2.482	ug/l #	89
51) Ethyl methacrylate	10.615	69	6139	2.328	ug/l	91
52) 1,3-Dichloropropane	10.932	76	6314	2.513	ug/l	100
53) Dibromochloromethane	11.155	129	2579	1.965	ug/l #	6
54) 1,2-Dibromoethane	11.273	107	3128	2.390	ug/l	98
55) 2-Chloroethyl vinyl ether	9.786	63	10703	13.918	ug/l	96
56) Bromoform	12.548	173	1700	1.970	ug/l #	20
58) 4-Methyl-2-Pentanone	10.109	43	35313	11.374	ug/l	98
59) 2-Hexanone	10.109	43	35313	11.374	ug/l #	84
61) Tetrachloroethene	10.844	164	2004	2.501	ug/l #	70
62) Toluene	10.303	91	14598	2.571	ug/l	98
64) Chlorobenzene	11.755	112	8870	2.557	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.837	131	2711	2.400	ug/l	90
66) Ethyl Benzene	11.849	91	16181	2.622	ug/l	97
67) m/p-Xylenes	11.966	106	11426	4.981	ug/l	99
68) o-Xylene	12.342	106	5593	2.362	ug/l	98
69) Styrene	12.366	104	10245	2.410	ug/l	96
70) Isopropylbenzene	12.683	105	15293	2.633	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.977	83	5391	2.366	ug/l #	96
72) 1,2,3-Trichloropropane	13.035	75	4627m	2.751	ug/l	
73) Bromobenzene	13.006	156	3355	2.456	ug/l	60
74) n-propylbenzene	13.071	91	18092	2.583	ug/l	98
75) 2-Chlorotoluene	13.282	91	10962	2.557	ug/l	94
76) 1,3,5-Trimethylbenzene	13.235	105	12056	2.530	ug/l	90
77) t-1,4-Dichloro-2-butene	12.748	75	1692	2.070	ug/l	79
78) 4-Chlorotoluene	13.171	91	10834	2.562	ug/l	93
79) tert-butylbenzene	13.535	119	11566m	2.733	ug/l	
80) 1,2,4-Trimethylbenzene	13.588	105	12204	2.455	ug/l	96
81) sec-Butylbenzene	13.735	105	16120	2.644	ug/l	98
82) p-Isopropyltoluene	13.864	119	13187	2.599	ug/l	97
83) 1,3-Dichlorobenzene	13.870	146	7073	2.641	ug/l	95
84) 1,4-Dichlorobenzene	13.958	146	6891	2.555	ug/l	96
85) n-Butylbenzene	14.240	91	12284	2.646	ug/l	95
86) Hexachloroethane	14.545	117	1762	2.592	ug/l #	1
87) 1,2-Dichlorobenzene	14.293	146	6951	2.598	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.992	75	1145m	2.287	ug/l	
89) 1,2,4-Trichlorobenzene	15.779	180	4531	2.781	ug/l #	91
90) Hexachlorobutadiene	15.903	225	1707	3.160	ug/l	83
91) Naphthalene	16.073	128	16132	2.562	ug/l #	94
92) 1,2,3-Trichlorobenzene	16.308	180	4263m	2.593	ug/l	

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

