

Data Path : Z:\voasrv\HPCHEM1\MSVOA_T\Data\VT102725\
 Data File : VT019188.D
 Acq On : 27 Oct 2025 10:08
 Operator : SY/MD
 Sample : MDL06
 Misc : 5.0mL/MSVOA_T/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_T
 ClientSampleId :
 MDL06

Manual Integrations
 APPROVED

Reviewed By :Amit Patel 10/30/2025
 Supervised By :Mahesh Dadoda 10/30/2025

Quant Time: Oct 28 05:57:25 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	7.019	128	25827	30.000	ug/l	#-0.06
28) 1,4-Difluorobenzene	8.529	114	166855	30.000	ug/l	-0.05
57) Chlorobenzene-d5	11.708	117	137773	30.000	ug/l	-0.05
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	7.918	65	67606	29.878	ug/l	-0.05
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.600%		
60) 4-Bromofluorobenzene	12.842	95	62200	28.726	ug/l	-0.05
Spiked Amount 30.000	Range 63 - 112		Recovery =	95.767%		
63) Toluene-d8	10.209	98	197307	29.423	ug/l	-0.05
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.067%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.866	85	1724	2.432	ug/l	95
3) Chloromethane	2.066	50	4021m	2.471	ug/l	
4) Vinyl Chloride	2.178	62	3987m	2.193	ug/l	
5) Bromomethane	2.530	94	4299m	2.847	ug/l	
6) Chloroethane	2.665	64	3697	2.305	ug/l	92
7) Trichlorofluoromethane	2.959	101	6581	2.232	ug/l	92
8) Diethyl Ether	3.323	74	4017	2.212	ug/l	49
9) 1,1,2-Trichlorotrifluo...	3.646	101	2768	2.391	ug/l	71
10) 1,1-Dichloroethene	3.623	96	3049	2.629	ug/l #	77
11) Methyl Iodide	3.840	142	2129m	1.884	ug/l	
12) Methyl Acetate	4.175	43	7606	1.658	ug/l #	87
13) Acrolein	3.505	56	1482m	9.581	ug/l	
14) Acrylonitrile	4.786	53	16367	11.578	ug/l	97
15) Acetone	3.705	58	9510	18.882	ug/l	78
16) Carbon Disulfide	3.923	76	5360	2.474	ug/l	99
17) Allyl chloride	4.181	41	7060m	2.561	ug/l	
18) Methylene Chloride	4.387	84	5526	3.195	ug/l #	85
19) trans-1,2-Dichloroethene	6.625	96	4421	2.478	ug/l	85
20) Diisopropyl ether	5.744	45	17213	2.453	ug/l #	71
21) 1,1-Dichloroethane	5.638	63	8252m	2.516	ug/l	
22) cis-1,2-Dichloroethene	6.625	96	4421	2.478	ug/l	92
23) tert-Butyl Alcohol	4.610	59	8809	14.224	ug/l #	100
24) Methyl tert-Butyl Ether	4.845	73	17999m	2.583	ug/l	
25) Chloroform	7.213	83	7490	2.497	ug/l	89
26) Cyclohexane	7.513	56	4699	2.442	ug/l #	56
29) 1,1-Dichloropropene	7.665	75	4255	2.437	ug/l	71
30) 2-Butanone	6.643	43	30713	14.271	ug/l	99
31) 2,2-Dichloropropane	6.631	77	6609	2.585	ug/l #	64
32) 1,1,1-Trichloroethane	7.419	97	5187	2.358	ug/l #	88
33) Carbon Tetrachloride	7.642	117	3019	2.142	ug/l #	88
34) Benzene	7.936	78	15811	2.444	ug/l #	13
35) Methacrylonitrile	6.990	41	4322	2.359	ug/l	90
36) 1,2-Dichloroethane	8.012	62	5991	2.498	ug/l #	87
37) Trichloroethene	8.805	130	2989	2.512	ug/l	82
38) Methylcyclohexane	9.075	83	4303	2.447	ug/l	95
39) 1,2-Dichloropropane	9.117	63	4056	2.394	ug/l	93
40) Dibromomethane	9.216	93	2453	2.348	ug/l #	68
41) Bromodichloromethane	10.738	83	3217	2.398	ug/l #	92
42) Vinyl Acetate	5.685	43	57541	10.898	ug/l #	89

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	6.749	43	9155m	2.588	ug/l	
44) Isopropyl Acetate	8.071	43	13509	2.426	ug/l	95
45) 1,4-Dioxane	9.211	88	2170	44.925	ug/l #	57
46) Methyl methacrylate	9.211	41	5927	2.381	ug/l	93
47) n-amyl Acetate	12.454	43	8930	2.383	ug/l	97
48) t-1,3-Dichloropropene	10.544	75	5633	2.314	ug/l	92
49) cis-1,3-Dichloropropene	9.927	75	6106	2.387	ug/l	99
50) 1,1,2-Trichloroethane	10.738	97	3853	2.508	ug/l	90
51) Ethyl methacrylate	10.597	69	6693	2.325	ug/l	90
52) 1,3-Dichloropropane	10.909	76	6578	2.397	ug/l	100
53) Dibromochloromethane	11.126	129	3321	2.317	ug/l #	1
54) 1,2-Dibromoethane	11.255	107	3273	2.290	ug/l	95
55) 2-Chloroethyl vinyl ether	9.769	63	10820	12.885	ug/l	96
56) Bromoform	12.530	173	2168	2.301	ug/l #	29
58) 4-Methyl-2-Pentanone	10.086	43	38556	11.427	ug/l	98
59) 2-Hexanone	10.086	43	38556	11.427	ug/l #	82
61) Tetrachloroethene	10.832	164	2269m	2.606	ug/l	
62) Toluene	10.280	91	15028	2.435	ug/l	98
64) Chlorobenzene	11.737	112	9377	2.488	ug/l #	88
65) 1,1,1,2-Tetrachloroethane	11.819	131	3148	2.564	ug/l	89
66) Ethyl Benzene	11.825	91	16226	2.419	ug/l	99
67) m/p-Xylenes	11.949	106	11642	4.670	ug/l	98
68) o-Xylene	12.319	106	6208	2.412	ug/l	93
69) Styrene	12.342	104	10981	2.377	ug/l	95
70) Isopropylbenzene	12.665	105	15953	2.527	ug/l	95
71) 1,1,2,2-Tetrachloroethane	12.953	83	5920	2.390	ug/l	98
72) 1,2,3-Trichloropropane	13.006	75	6257m	3.423	ug/l	
73) Bromobenzene	12.989	156	3735	2.516	ug/l	67
74) n-propylbenzene	13.053	91	18331	2.408	ug/l	100
75) 2-Chlorotoluene	13.259	91	11443	2.456	ug/l	99
76) 1,3,5-Trimethylbenzene	13.212	105	12620	2.437	ug/l	95
77) t-1,4-Dichloro-2-butene	12.718	75	2054	2.312	ug/l	82
78) 4-Chlorotoluene	13.153	91	11330	2.465	ug/l	97
79) tert-butylbenzene	13.512	119	11380m	2.474	ug/l	
80) 1,2,4-Trimethylbenzene	13.559	105	13158	2.435	ug/l	100
81) sec-Butylbenzene	13.717	105	16028	2.419	ug/l	97
82) p-Isopropyltoluene	13.841	119	12986	2.355	ug/l	98
83) 1,3-Dichlorobenzene	13.841	146	7381m	2.536	ug/l	
84) 1,4-Dichlorobenzene	13.935	146	7982	2.723	ug/l	94
85) n-Butylbenzene	14.217	91	11340	2.247	ug/l	99
86) Hexachloroethane	14.522	117	1726	2.336	ug/l #	1
87) 1,2-Dichlorobenzene	14.264	146	7509	2.582	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	14.969	75	1064	1.955	ug/l	96
89) 1,2,4-Trichlorobenzene	15.756	180	4523	2.555	ug/l	95
90) Hexachlorobutadiene	15.874	225	1778	3.029	ug/l	93
91) Naphthalene	16.038	128	16963	2.479	ug/l #	93
92) 1,2,3-Trichlorobenzene	16.273	180	4298	2.405	ug/l	94

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

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