

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
 Data File : VX046621.D
 Acq On : 10 Jun 2025 23:09
 Operator : JC/MD
 Sample : VX0610WBS02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 41 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0610WBS02

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/11/2025
 Supervised By : Mahesh Dadoda 06/11/2025

Quant Time: Jun 11 06:50:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 11 06:20:28 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.916	128	19222	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	103988	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	93147	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.970	65	46972	30.188	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 100.633%	
60) 4-Bromofluorobenzene	11.079	95	48257	30.736	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 102.467%	
63) Toluene-d8	8.653	98	127557	30.658	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 102.200%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.185	85	22013	17.615	ug/l	98
3) Chloromethane	1.306	50	22281	17.305	ug/l	99
4) Vinyl Chloride	1.386	62	21527	17.342	ug/l	99
5) Bromomethane	1.630	94	14230	19.196	ug/l	99
6) Chloroethane	1.703	64	12084	16.945	ug/l	97
7) Trichlorofluoromethane	1.904	101	32931	18.522	ug/l	99
8) Diethyl Ether	2.148	74	11116	17.844	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.349	101	21513	18.186	ug/l	98
10) 1,1-Dichloroethene	2.337	96	20702	18.041	ug/l	98
11) Methyl Iodide	2.471	142	27414	17.524	ug/l	99
12) Methyl Acetate	2.715	43	21915	15.152	ug/l	99
13) Acrolein	2.251	56	13175	92.958	ug/l	95
14) Acrylonitrile	3.074	53	52348	88.070	ug/l	100
15) Acetone	2.392	58	11884	87.435	ug/l	92
16) Carbon Disulfide	2.532	76	57403	18.031	ug/l	99
17) Allyl chloride	2.678	41	37422	17.975	ug/l	96
18) Methylene Chloride	2.806	84	22670	17.902	ug/l	97
19) trans-1,2-Dichloroethene	3.111	96	21879	18.399	ug/l	99
20) Diisopropyl ether	3.769	45	73623	18.691	ug/l #	78
21) 1,1-Dichloroethane	3.623	63	40810	18.083	ug/l	98
22) cis-1,2-Dichloroethene	4.501	96	24617	17.757	ug/l	96
23) tert-Butyl Alcohol	2.959	59	10522	87.647	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	63678	18.166	ug/l	99
25) Chloroform	5.105	83	42274	18.199	ug/l	98
26) Cyclohexane	5.483	56	38057	18.483	ug/l #	99
29) 1,1-Dichloropropene	5.702	75	29833	18.234	ug/l	99
30) 2-Butanone	4.568	43	64429	88.378	ug/l	99
31) 2,2-Dichloropropane	4.495	77	24376	16.782	ug/l	98
32) 1,1,1-Trichloroethane	5.397	97	36617	18.113	ug/l	98
33) Carbon Tetrachloride	5.690	117	32985	18.384	ug/l	94
34) Benzene	6.050	78	87048	18.109	ug/l	96
35) Methacrylonitrile	4.934	41	15709	17.572	ug/l	98
36) 1,2-Dichloroethane	6.098	62	33348	18.336	ug/l	100
37) Trichloroethene	7.135	130	21199	17.575	ug/l #	79
38) Methylcyclohexane	7.391	83	37451	18.033	ug/l	98
39) 1,2-Dichloropropane	7.433	63	21584	18.000	ug/l	95
40) Dibromomethane	7.586	93	15985	17.832	ug/l	100
41) Bromodichloromethane	7.830	83	33112	18.131	ug/l	98
42) Vinyl Acetate	3.733	43	292460	92.970	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.720	43	27654	17.908	ug/l #	88
44) Isopropyl Acetate	6.348	43	43509	18.012	ug/l	99
45) 1,4-Dioxane	7.665	88	5579	366.160	ug/l #	89
46) Methyl methacrylate	7.696	41	23408	17.748	ug/l	95
47) n-amyl Acetate	10.841	43	40603	18.792	ug/l	100
48) t-1,3-Dichloropropene	8.982	75	28220	17.237	ug/l	99
49) cis-1,3-Dichloropropene	8.372	75	32821	17.957	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	20768	18.382	ug/l	91
51) Ethyl methacrylate	9.116	69	30509	17.760	ug/l	97
52) 1,3-Dichloropropane	9.311	76	36026	18.307	ug/l	99
53) Dibromochloromethane	9.518	129	24458	18.367	ug/l	99
54) 1,2-Dibromoethane	9.610	107	21366	17.979	ug/l	98
55) 2-Chloroethyl vinyl ether	8.244	63	90784	101.191	ug/l	99
56) Bromoform	10.799	173	14483	17.599	ug/l	99
58) 4-Methyl-2-Pentanone	8.573	43	140128	92.485	ug/l	99
59) 2-Hexanone	9.433	43	99238	92.843	ug/l	99
61) Tetrachloroethene	9.275	164	17516	17.943	ug/l	94
62) Toluene	8.720	91	94378	18.696	ug/l	98
64) Chlorobenzene	10.079	112	60711	18.646	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	20695	18.966	ug/l	96
66) Ethyl Benzene	10.195	91	106657	18.504	ug/l	99
67) m/p-Xylenes	10.299	106	80561	37.787	ug/l	97
68) o-Xylene	10.640	106	38128	18.574	ug/l	99
69) Styrene	10.652	104	65364	18.577	ug/l	99
70) Isopropylbenzene	10.963	105	102929	18.684	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.207	83	30365	18.764	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	24991m	18.499	ug/l	
73) Bromobenzene	11.195	156	23824	18.450	ug/l	99
74) n-propylbenzene	11.305	91	124603	18.916	ug/l	100
75) 2-Chlorotoluene	11.360	91	75026	19.025	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	86417	18.880	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	7592	16.635	ug/l	93
78) 4-Chlorotoluene	11.451	91	87714	19.225	ug/l	100
79) tert-butylbenzene	11.713	119	86527	18.956	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	86969	19.240	ug/l	98
81) sec-Butylbenzene	11.890	105	110683	18.948	ug/l	99
82) p-Isopropyltoluene	12.006	119	92349	19.262	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	46156	19.202	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	45679	18.897	ug/l	98
85) n-Butylbenzene	12.329	91	88946	19.258	ug/l	99
86) Hexachloroethane	12.536	117	15002	18.018	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	44694	19.327	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.939	75	6386	19.130	ug/l	96
89) 1,2,4-Trichlorobenzene	13.585	180	28246	18.527	ug/l	98
90) Hexachlorobutadiene	13.725	225	12836	19.121	ug/l	99
91) Naphthalene	13.774	128	88858	18.371	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	28750	19.212	ug/l	100

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

