

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061125\
 Data File : VX046629.D
 Acq On : 11 Jun 2025 11:43
 Operator : JC/MD
 Sample : VX0611WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0611WBS01

Quant Time: Jun 12 01:37:21 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

Manual Integrations APPROVED

Reviewed By : John Carlone 06/12/2025
 Supervised By : Mahesh Dadoda 06/12/2025

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

Internal Standards						
1) Bromochloromethane	4.910	128	20422	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	109005	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	100408	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	49478	29.930	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.767%
60) 4-Bromofluorobenzene	11.079	95	51013	30.142	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	100.467%
63) Toluene-d8	8.647	98	134246	29.932	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.767%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.185	85	24661	18.574	ug/l	99
3) Chloromethane	1.307	50	23364	17.080	ug/l	100
4) Vinyl Chloride	1.386	62	23516	17.832	ug/l	99
5) Bromomethane	1.630	94	10543	13.387	ug/l	95
6) Chloroethane	1.703	64	14578m	19.241	ug/l	
7) Trichlorofluoromethane	1.904	101	33338	17.649	ug/l	99
8) Diethyl Ether	2.142	74	10329	15.607	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.343	101	23234	18.487	ug/l	97
10) 1,1-Dichloroethene	2.337	96	21888	17.954	ug/l	95
11) Methyl Iodide	2.465	142	24759	14.897	ug/l	99
12) Methyl Acetate	2.715	43	22550	14.675	ug/l	99
13) Acrolein	2.252	56	13929	92.503	ug/l	96
14) Acrylonitrile	3.075	53	55658	88.137	ug/l	99
15) Acetone	2.386	58	13724	95.039	ug/l	82
16) Carbon Disulfide	2.526	76	62221	18.396	ug/l	98
17) Allyl chloride	2.678	41	40086	18.123	ug/l	96
18) Methylene Chloride	2.800	84	25450	18.916	ug/l	98
19) trans-1,2-Dichloroethene	3.105	96	23559	18.648	ug/l	94
20) Diisopropyl ether	3.763	45	79820	19.074	ug/l #	74
21) 1,1-Dichloroethane	3.623	63	44145	18.412	ug/l	99
22) cis-1,2-Dichloroethene	4.495	96	27439	18.629	ug/l	94
23) tert-Butyl Alcohol	2.959	59	10975	86.048	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	68403	18.367	ug/l	99
25) Chloroform	5.099	83	47440	19.223	ug/l	99
26) Cyclohexane	5.470	56	40664	18.588	ug/l #	100
29) 1,1-Dichloropropene	5.702	75	31870	18.582	ug/l	99
30) 2-Butanone	4.562	43	67190	87.923	ug/l	99
31) 2,2-Dichloropropane	4.483	77	33695	22.131	ug/l #	72
32) 1,1,1-Trichloroethane	5.385	97	40373m	19.051	ug/l	
33) Carbon Tetrachloride	5.684	117	36243	19.271	ug/l	97
34) Benzene	6.044	78	96349	19.121	ug/l	98
35) Methacrylonitrile	4.922	41	16437	17.540	ug/l	98
36) 1,2-Dichloroethane	6.092	62	36848	19.328	ug/l	99
37) Trichloroethene	7.129	130	23450	18.546	ug/l	84
38) Methylcyclohexane	7.379	83	41647	19.131	ug/l	98
39) 1,2-Dichloropropane	7.427	63	22980	18.282	ug/l	99
40) Dibromomethane	7.586	93	17488	18.611	ug/l	99
41) Bromodichloromethane	7.824	83	35745	18.672	ug/l #	99
42) Vinyl Acetate	3.733	43	312533	94.779	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.727	43	28784m	17.781	ug/l	
44) Isopropyl Acetate	6.348	43	46270	18.274	ug/l	99
45) 1,4-Dioxane	7.659	88	5325	333.404	ug/l	95
46) Methyl methacrylate	7.696	41	24598	17.792	ug/l	95
47) n-amyl Acetate	10.841	43	42395	18.719	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	31556	18.388	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	36260	18.925	ug/l	95
50) 1,1,2-Trichloroethane	9.153	97	22867	19.309	ug/l	91
51) Ethyl methacrylate	9.116	69	31684	17.595	ug/l	98
52) 1,3-Dichloropropane	9.305	76	39199	19.003	ug/l	98
53) Dibromochloromethane	9.519	129	25983	18.614	ug/l	98
54) 1,2-Dibromoethane	9.610	107	22948	18.422	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	83845	89.155	ug/l	99
56) Bromoform	10.799	173	16248	18.835	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	145927	89.348	ug/l	99
59) 2-Hexanone	9.427	43	99810	86.626	ug/l	98
61) Tetrachloroethene	9.275	164	19469	18.502	ug/l	99
62) Toluene	8.720	91	101985	18.742	ug/l	100
64) Chlorobenzene	10.079	112	65831	18.757	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	21528	18.302	ug/l	99
66) Ethyl Benzene	10.195	91	115559	18.599	ug/l	99
67) m/p-Xylenes	10.299	106	87609	38.121	ug/l	98
68) o-Xylene	10.640	106	40534	18.318	ug/l	99
69) Styrene	10.652	104	70877	18.687	ug/l	98
70) Isopropylbenzene	10.957	105	110495	18.607	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.207	83	31918	18.298	ug/l	97
72) 1,2,3-Trichloropropane	11.238	75	26680m	18.321	ug/l	
73) Bromobenzene	11.195	156	26281	18.881	ug/l	97
74) n-propylbenzene	11.299	91	135508	19.084	ug/l	100
75) 2-Chlorotoluene	11.360	91	81684	19.216	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	92812	18.811	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	9125	18.549	ug/l	96
78) 4-Chlorotoluene	11.451	91	95401	19.398	ug/l	99
79) tert-butylbenzene	11.713	119	93057	18.912	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	91989	18.878	ug/l	100
81) sec-Butylbenzene	11.890	105	119706	19.011	ug/l	100
82) p-Isopropyltoluene	12.006	119	99691	19.290	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	49426	19.076	ug/l	100
84) 1,4-Dichlorobenzene	12.042	146	50441	19.358	ug/l	99
85) n-Butylbenzene	12.329	91	96674	19.418	ug/l	99
86) Hexachloroethane	12.536	117	16502	18.386	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	47932	19.229	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	6475	17.994	ug/l	100
89) 1,2,4-Trichlorobenzene	13.585	180	30932	18.822	ug/l	100
90) Hexachlorobutadiene	13.725	225	13500	18.656	ug/l	98
91) Naphthalene	13.774	128	93504	17.934	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	30955	19.190	ug/l	96

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

