

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072525\
 Data File : VX047144.D
 Acq On : 25 Jul 2025 16:01
 Operator : JC/MD
 Sample : VSTDIC050
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC050

Quant Time: Jul 26 04:44:45 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X072525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jul 26 04:39:21 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 07/28/2025
 Supervised By : Mahesh Dadoda 07/28/2025

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

Internal Standards						
1) Bromochloromethane	4.909	128	40152m	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	325982	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	289461	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.970	65	134300	26.484	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	88.267%#		
60) 4-Bromofluorobenzene	11.079	95	141386	29.976	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.933%		
63) Toluene-d8	8.652	98	378028	29.984	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.933%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.184	85	203272	44.482	ug/l	99
3) Chloromethane	1.312	50	180249	43.889	ug/l	94
4) Vinyl Chloride	1.392	62	215653	43.851	ug/l	98
5) Bromomethane	1.629	94	86316	43.415	ug/l	98
6) Chloroethane	1.709	64	121755	43.863	ug/l	96
7) Trichlorofluoromethane	1.910	101	298492	44.676	ug/l	99
8) Diethyl Ether	2.148	74	105959	43.452	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.349	101	174481	43.945	ug/l	93
10) 1,1-Dichloroethene	2.337	96	173807	42.788	ug/l	89
11) Methyl Iodide	2.471	142	275090	43.878	ug/l #	96
12) Methyl Acetate	2.715	43	219929	43.499	ug/l	100
13) Acrolein	2.251	56	136603	202.029	ug/l	100
14) Acrylonitrile	3.080	53	445761	213.625	ug/l	97
15) Acetone	2.391	58	106738	208.370	ug/l	96
16) Carbon Disulfide	2.532	76	487839	41.427	ug/l	100
17) Allyl chloride	2.684	41	300218	43.261	ug/l	99
18) Methylene Chloride	2.806	84	190635	43.484	ug/l	93
19) trans-1,2-Dichloroethene	3.111	96	182454	43.860	ug/l	97
20) Diisopropyl ether	3.775	45	648845	43.725	ug/l	94
21) 1,1-Dichloroethane	3.629	63	349733	43.302	ug/l	98
22) cis-1,2-Dichloroethene	4.507	96	215088	42.343	ug/l	99
23) tert-Butyl Alcohol	2.958	59	124524	214.955	ug/l	100
24) Methyl tert-Butyl Ether	3.129	73	586481	43.106	ug/l	100
25) Chloroform	5.110	83	343526	43.201	ug/l	96
26) Cyclohexane	5.488	56	320794	40.905	ug/l #	99
29) 1,1-Dichloropropene	5.708	75	249018	49.047	ug/l	98
30) 2-Butanone	4.568	43	590440	246.210	ug/l	99
31) 2,2-Dichloropropane	4.489	77	265734	48.746	ug/l #	89
32) 1,1,1-Trichloroethane	5.403	97	310230	49.344	ug/l #	79
33) Carbon Tetrachloride	5.696	117	216538m	48.676	ug/l	
34) Benzene	6.049	78	740706	49.416	ug/l	99
35) Methacrylonitrile	4.934	41	127728	49.270	ug/l	92
36) 1,2-Dichloroethane	6.098	62	263859	49.018	ug/l	99
37) Trichloroethene	7.134	130	184951	49.030	ug/l	100
38) Methylcyclohexane	7.391	83	318686	48.688	ug/l	99
39) 1,2-Dichloropropane	7.439	63	190687m	49.622	ug/l	
40) Dibromomethane	7.586	93	133177	49.682	ug/l	94
41) Bromodichloromethane	7.823	83	275029	49.030	ug/l #	91
42) Vinyl Acetate	3.733	43	2743477	248.856	ug/l	99

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43) Ethyl Acetate	4.726	43	267282m	48.880	ug/l	
44) Isopropyl Acetate	6.348	43	423642	49.240	ug/l	97
45) 1,4-Dioxane	7.720	88	55806	1037.859	ug/l #	80
46) Methyl methacrylate	7.695	41	216175	48.965	ug/l	91
47) n-amyl Acetate	10.841	43	378817	50.356	ug/l	100
48) t-1,3-Dichloropropene	8.982	75	267150	49.275	ug/l	97
49) cis-1,3-Dichloropropene	8.372	75	290751	49.027	ug/l	96
50) 1,1,2-Trichloroethane	9.152	97	173122	48.564	ug/l	98
51) Ethyl methacrylate	9.116	69	289631	49.835	ug/l	98
52) 1,3-Dichloropropane	9.311	76	300922	48.658	ug/l	99
53) Dibromochloromethane	9.524	129	56567m	43.206	ug/l	
54) 1,2-Dibromoethane	9.610	107	183121	49.068	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	729049	257.251	ug/l	100
56) Bromoform	10.792	173	1672m	31.518	ug/l	
58) 4-Methyl-2-Pentanone	8.573	43	1257407	248.965	ug/l	100
59) 2-Hexanone	9.433	43	877641	245.648	ug/l	99
61) Tetrachloroethene	9.274	164	152539	48.127	ug/l	99
62) Toluene	8.720	91	783616	48.410	ug/l	98
64) Chlorobenzene	10.079	112	500633	48.231	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.164	131	171392	52.228	ug/l	92
66) Ethyl Benzene	10.195	91	896851	48.423	ug/l	98
67) m/p-Xylenes	10.305	106	671639	97.854	ug/l	99
68) o-Xylene	10.640	106	320382	48.400	ug/l	99
69) Styrene	10.652	104	552093	48.630	ug/l	100
70) Isopropylbenzene	10.963	105	861214	48.845	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	254943	48.740	ug/l	98
72) 1,2,3-Trichloropropane	11.237	75	196921m	48.879	ug/l	
73) Bromobenzene	11.195	156	202579	48.006	ug/l	98
74) n-propylbenzene	11.304	91	1021277	48.246	ug/l	100
75) 2-Chlorotoluene	11.365	91	601873	48.046	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	696653	48.023	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	23845	39.997	ug/l	87
78) 4-Chlorotoluene	11.451	91	697697	48.302	ug/l	100
79) tert-butylbenzene	11.713	119	701152	48.296	ug/l	99
80) 1,2,4-Trimethylbenzene	11.749	105	698550	48.549	ug/l	99
81) sec-Butylbenzene	11.890	105	870654	48.054	ug/l	100
82) p-Isopropyltoluene	12.006	119	727062	48.293	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	381557	48.394	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	380717	48.722	ug/l	98
85) n-Butylbenzene	12.329	91	686624	47.523	ug/l	99
86) Hexachloroethane	12.536	117	66347	31.692	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	358961	48.545	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.938	75	53573	47.310	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	238909	46.729	ug/l	98
90) Hexachlorobutadiene	13.731	225	27146m	23.894	ug/l	
91) Naphthalene	13.774	128	803634	46.566	ug/l	100
92) 1,2,3-Trichlorobenzene	13.956	180	230539	46.993	ug/l	99

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

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