

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100725\
 Data File : VX048058.D
 Acq On : 07 Oct 2025 19:27
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX100725

Quant Time: Oct 08 02:52:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X100725W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 08 02:46:46 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 10/08/2025
 Supervised By : Mahesh Dadoda 10/09/2025

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

Internal Standards						
1) Bromochloromethane	4.891	128	24032m	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.745	114	154088	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.037	117	143996	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.940	65	71316	29.809	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.367%		
60) 4-Bromofluorobenzene	11.067	95	70674	30.004	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.000%		
63) Toluene-d8	8.635	98	190122	29.629	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.767%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.179	85	37621	19.823	ug/l	97
3) Chloromethane	1.300	50	41340	19.915	ug/l	97
4) Vinyl Chloride	1.380	62	41548	19.930	ug/l	94
5) Bromomethane	1.624	94	26060	22.251	ug/l	99
6) Chloroethane	1.697	64	26901	20.361	ug/l	96
7) Trichlorofluoromethane	1.898	101	54430	18.616	ug/l	99
8) Diethyl Ether	2.136	74	21639	19.025	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.337	101	30817	19.552	ug/l	96
10) 1,1-Dichloroethene	2.331	96	30908	18.278	ug/l	99
11) Methyl Iodide	2.459	142	39593m	17.929	ug/l	
12) Methyl Acetate	2.703	43	40289	19.741	ug/l	98
13) Acrolein	2.239	56	24000	70.116	ug/l	100
14) Acrylonitrile	3.062	53	94673	99.147	ug/l	97
15) Acetone	2.380	58	22010	97.436	ug/l	88
16) Carbon Disulfide	2.520	76	108249	20.599	ug/l	99
17) Allyl chloride	2.666	41	62392	19.988	ug/l	97
18) Methylene Chloride	2.788	84	41695	20.203	ug/l	97
19) trans-1,2-Dichloroethene	3.093	96	36935	20.674	ug/l	94
20) Diisopropyl ether	3.751	45	134761	20.738	ug/l	97
21) 1,1-Dichloroethane	3.605	63	70386	19.885	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	41859	19.219	ug/l #	88
23) tert-Butyl Alcohol	2.947	59	22585	96.736	ug/l	100
24) Methyl tert-Butyl Ether	3.111	73	121238	20.435	ug/l	99
25) Chloroform	5.086	83	73663	20.610	ug/l	98
26) Cyclohexane	5.464	56	57166	20.548	ug/l #	97
29) 1,1-Dichloropropene	5.684	75	48199	20.768	ug/l	82
30) 2-Butanone	4.550	43	114193	99.673	ug/l #	96
31) 2,2-Dichloropropane	4.471	77	49150	19.283	ug/l #	91
32) 1,1,1-Trichloroethane	5.373	97	62020	20.750	ug/l	99
33) Carbon Tetrachloride	5.672	117	42821m	18.574	ug/l	
34) Benzene	6.025	78	152232	20.237	ug/l	94
35) Methacrylonitrile	4.903	41	26259	19.449	ug/l	95
36) 1,2-Dichloroethane	6.074	62	57689m	20.583	ug/l	
37) Trichloroethene	7.117	130	35974	19.983	ug/l	97
38) Methylcyclohexane	7.366	83	53105	19.991	ug/l	98
39) 1,2-Dichloropropane	7.415	63	39524	20.591	ug/l	90
40) Dibromomethane	7.568	93	25792	18.750	ug/l #	89
41) Bromodichloromethane	7.805	83	58475	20.129	ug/l	99
42) Vinyl Acetate	3.715	43	546127	100.892	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.702	43	46259	18.912	ug/l	99
44) Isopropyl Acetate	6.324	43	83258	20.018	ug/l	100
45) 1,4-Dioxane	7.647	88	9851	394.267	ug/l	94
46) Methyl methacrylate	7.677	41	41700	19.994	ug/l	94
47) n-amyl Acetate	10.829	43	72971	20.630	ug/l	100
48) t-1,3-Dichloropropene	8.964	75	57298	20.184	ug/l	97
49) cis-1,3-Dichloropropene	8.354	75	62438	20.428	ug/l	98
50) 1,1,2-Trichloroethane	9.134	97	37939	21.012	ug/l	98
51) Ethyl methacrylate	9.104	69	56077	20.455	ug/l	94
52) 1,3-Dichloropropane	9.293	76	65452	20.911	ug/l	99
53) Dibromochloromethane	9.506	129	25889m	14.506	ug/l	
54) 1,2-Dibromoethane	9.592	107	40326	21.798	ug/l	97
55) 2-Chloroethyl vinyl ether	8.226	63	121235	87.317	ug/l	98
56) Bromoform	10.774	173	136	7.350	ug/l #	1
58) 4-Methyl-2-Pentanone	8.561	43	251970	101.220	ug/l	98
59) 2-Hexanone	9.415	43	173000	100.600	ug/l	99
61) Tetrachloroethene	9.256	164	30457	20.759	ug/l	93
62) Toluene	8.708	91	161714	20.200	ug/l	100
64) Chlorobenzene	10.061	112	105726	20.584	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.146	131	34413	19.497	ug/l #	82
66) Ethyl Benzene	10.177	91	176385	20.292	ug/l	98
67) m/p-Xylenes	10.287	106	136021	41.372	ug/l	100
68) o-Xylene	10.628	106	64068	20.496	ug/l	99
69) Styrene	10.640	104	112504	20.540	ug/l	99
70) Isopropylbenzene	10.945	105	164881	20.652	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.195	83	53080	21.105	ug/l	98
72) 1,2,3-Trichloropropane	11.219	75	46217m	21.209	ug/l	
73) Bromobenzene	11.183	156	42157	20.701	ug/l	95
74) n-propylbenzene	11.286	91	197329	20.434	ug/l	100
75) 2-Chlorotoluene	11.347	91	123551	20.833	ug/l	100
76) 1,3,5-Trimethylbenzene	11.433	105	137993	20.796	ug/l	99
77) t-1,4-Dichloro-2-butene	11.000	75	15037	19.658	ug/l	94
78) 4-Chlorotoluene	11.439	91	142592	20.541	ug/l	99
79) tert-butylbenzene	11.695	119	132686	20.515	ug/l	99
80) 1,2,4-Trimethylbenzene	11.732	105	138276	20.865	ug/l	99
81) sec-Butylbenzene	11.872	105	164953	20.869	ug/l	100
82) p-Isopropyltoluene	11.994	119	138491	21.122	ug/l	100
83) 1,3-Dichlorobenzene	11.951	146	76439	20.600	ug/l	100
84) 1,4-Dichlorobenzene	12.024	146	78259	20.909	ug/l	97
85) n-Butylbenzene	12.317	91	125614	20.686	ug/l	99
86) Hexachloroethane	12.518	117	23511	22.403	ug/l	83
87) 1,2-Dichlorobenzene	12.317	146	74205	20.869	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.926	75	9731	19.787	ug/l	98
89) 1,2,4-Trichlorobenzene	13.567	180	43887	20.405	ug/l	96
90) Hexachlorobutadiene	13.707	225	13851	29.338	ug/l #	56
91) Naphthalene	13.756	128	135218	20.118	ug/l	99
92) 1,2,3-Trichlorobenzene	13.945	180	43507	20.788	ug/l	99

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

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