

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072525\
 Data File : VX047150.D
 Acq On : 25 Jul 2025 18:10
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX072525

Quant Time: Jul 26 05:48:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X072525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jul 26 05:39:32 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	4.916	128	37310m	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	340632	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	311099	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.970	65	141413	30.016	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.067%			
60) 4-Bromofluorobenzene	11.079	95	152380	30.060	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.200%			
63) Toluene-d8	8.653	98	403679	29.792	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.300%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.185	85	75512	17.777	ug/l	100
3) Chloromethane	1.313	50	66396	17.404	ug/l	97
4) Vinyl Chloride	1.392	62	77823	17.073	ug/l #	53
5) Bromomethane	1.630	94	36168	18.891	ug/l	100
6) Chloroethane	1.709	64	51625	20.019	ug/l	99
7) Trichlorofluoromethane	1.910	101	108227	17.444	ug/l	100
8) Diethyl Ether	2.148	74	39961	17.637	ug/l	92
9) 1,1,2-Trichlorotrifluo...	2.349	101	64857	17.600	ug/l	95
10) 1,1-Dichloroethene	2.337	96	65307	17.402	ug/l	87
11) Methyl Iodide	2.471	142	100155	17.191	ug/l #	97
12) Methyl Acetate	2.715	43	82190	17.495	ug/l	97
13) Acrolein	2.252	56	26196	41.678	ug/l	98
14) Acrylonitrile	3.081	53	170801	88.096	ug/l	99
15) Acetone	2.392	58	42453	89.213	ug/l	88
16) Carbon Disulfide	2.532	76	196101	17.933	ug/l	100
17) Allyl chloride	2.684	41	100189	15.537	ug/l	98
18) Methylene Chloride	2.806	84	70136	17.221	ug/l	96
19) trans-1,2-Dichloroethene	3.111	96	63989	16.559	ug/l	96
20) Diisopropyl ether	3.776	45	245968	17.847	ug/l	97
21) 1,1-Dichloroethane	3.629	63	129307	17.233	ug/l #	94
22) cis-1,2-Dichloroethene	4.513	96	82876	17.565	ug/l	94
23) tert-Butyl Alcohol	2.959	59	44817	83.200	ug/l #	100
24) Methyl tert-Butyl Ether	3.129	73	216413	17.121	ug/l	100
25) Chloroform	5.111	83	131349	17.780	ug/l	97
26) Cyclohexane	5.483	56	121928	17.321	ug/l #	99
29) 1,1-Dichloropropene	5.708	75	95569	18.014	ug/l	87
30) 2-Butanone	4.568	43	221523	88.401	ug/l	97
31) 2,2-Dichloropropane	4.489	77	93493	16.406	ug/l #	76
32) 1,1,1-Trichloroethane	5.397	97	116874	17.790	ug/l #	80
33) Carbon Tetrachloride	5.690	117	68316m	14.705	ug/l	
34) Benzene	6.050	78	276077	17.626	ug/l	96
35) Methacrylonitrile	4.940	41	50540	18.657	ug/l	93
36) 1,2-Dichloroethane	6.098	62	100441	17.745	ug/l #	91
37) Trichloroethene	7.135	130	69266	17.573	ug/l	99
38) Methylcyclohexane	7.385	83	119733	17.506	ug/l	100
39) 1,2-Dichloropropane	7.434	63	70045	17.439	ug/l	98
40) Dibromomethane	7.586	93	53163	18.960	ug/l	84
41) Bromodichloromethane	7.830	83	105738	18.039	ug/l	93
42) Vinyl Acetate	3.739	43	1016305	88.222	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.727	43	86325	15.194	ug/l #	93
44) Isopropyl Acetate	6.348	43	155680	17.317	ug/l	98
45) 1,4-Dioxane	7.708	88	20332	365.688	ug/l #	70
46) Methyl methacrylate	7.696	41	78054	16.919	ug/l	94
47) n-amyl Acetate	10.841	43	137512	17.493	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	96858	17.097	ug/l	100
49) cis-1,3-Dichloropropene	8.366	75	106859	17.244	ug/l	93
50) 1,1,2-Trichloroethane	9.153	97	66513	17.856	ug/l	99
51) Ethyl methacrylate	9.116	69	107012	17.621	ug/l	96
52) 1,3-Dichloropropane	9.311	76	115855	17.928	ug/l	99
53) Dibromochloromethane	9.543	129	2748m	2.010	ug/l	
54) 1,2-Dibromoethane	9.610	107	67308	17.260	ug/l	92
55) 2-Chloroethyl vinyl ether	8.244	63	261608	88.340	ug/l	99
56) Bromoform	10.793	173	11347m	204.727	ug/l	
58) 4-Methyl-2-Pentanone	8.574	43	477725	88.010	ug/l	99
59) 2-Hexanone	9.433	43	336137	87.539	ug/l	99
61) Tetrachloroethene	9.275	164	58284	17.110	ug/l	96
62) Toluene	8.720	91	303074	17.421	ug/l	99
64) Chlorobenzene	10.079	112	194586	17.443	ug/l	91
65) 1,1,1,2-Tetrachloroethane	10.159	131	63116	17.896	ug/l	91
66) Ethyl Benzene	10.195	91	343038	17.233	ug/l	99
67) m/p-Xylenes	10.299	106	254770	34.537	ug/l	95
68) o-Xylene	10.640	106	125083	17.582	ug/l	98
69) Styrene	10.652	104	208062	17.052	ug/l	99
70) Isopropylbenzene	10.963	105	333486	17.599	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	98211	17.470	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	77069m	17.799	ug/l	
73) Bromobenzene	11.195	156	78379	17.282	ug/l	97
74) n-propylbenzene	11.305	91	404129	17.763	ug/l	98
75) 2-Chlorotoluene	11.360	91	236156	17.540	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	272278	17.464	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	5920	9.239	ug/l	88
78) 4-Chlorotoluene	11.451	91	276482	17.810	ug/l	99
79) tert-butylbenzene	11.713	119	279177	17.893	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	275119	17.791	ug/l	99
81) sec-Butylbenzene	11.890	105	347518	17.847	ug/l	99
82) p-Isopropyltoluene	12.006	119	291718	18.029	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	150000	17.702	ug/l	99
84) 1,4-Dichlorobenzene	12.036	146	149397	17.789	ug/l	99
85) n-Butylbenzene	12.329	91	274912	17.704	ug/l	99
86) Hexachloroethane	12.536	117	48225	21.610	ug/l #	99
87) 1,2-Dichlorobenzene	12.335	146	142868	17.977	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	20314	16.691	ug/l	97
89) 1,2,4-Trichlorobenzene	13.585	180	95748	17.425	ug/l	98
90) Hexachlorobutadiene	13.725	225	27109	22.251	ug/l #	29
91) Naphthalene	13.774	128	318710	17.183	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	93836	17.797	ug/l	99

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

