

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072525\
 Data File : VX047142.D
 Acq On : 25 Jul 2025 15:18
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Quant Time: Jul 26 04:42:30 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	4.916	128	48237m	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	346035	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	315911	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.970	65	138949	22.808	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	76.033%	#	
60) 4-Bromofluorobenzene	11.079	95	156629	30.428	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	101.433%		
63) Toluene-d8	8.653	98	406860	29.569	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.567%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.185	85	15962m	2.907	ug/l	
3) Chloromethane	1.313	50	20875	4.231	ug/l	99
4) Vinyl Chloride	1.392	62	20302	3.436	ug/l #	68
5) Bromomethane	1.630	94	8877	3.717	ug/l	93
6) Chloroethane	1.709	64	11665	3.498	ug/l #	85
7) Trichlorofluoromethane	1.904	101	27925	3.479	ug/l	91
8) Diethyl Ether	2.148	74	11040	3.769	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.349	101	17049	3.574	ug/l	89
10) 1,1-Dichloroethene	2.337	96	17195	3.524	ug/l	93
11) Methyl Iodide	2.471	142	21329	2.832	ug/l #	81
12) Methyl Acetate	2.721	43	20687	3.406	ug/l	97
13) Acrolein	2.251	56	14439	17.775	ug/l	97
14) Acrylonitrile	3.087	53	47792m	19.065	ug/l	
15) Acetone	2.392	58	13474	21.895	ug/l	87
16) Carbon Disulfide	2.532	76	55262m	3.906	ug/l	
17) Allyl chloride	2.684	41	32401	3.886	ug/l	88
18) Methylene Chloride	2.806	84	18799	3.569	ug/l	98
19) trans-1,2-Dichloroethene	3.111	96	19187m	3.839	ug/l	
20) Diisopropyl ether	3.776	45	67017	3.759	ug/l	93
21) 1,1-Dichloroethane	3.629	63	35888	3.699	ug/l	99
22) cis-1,2-Dichloroethene	4.507	96	23264m	3.812	ug/l	
23) tert-Butyl Alcohol	2.959	59	15997	22.986	ug/l #	100
24) Methyl tert-Butyl Ether	3.129	73	59761	3.656	ug/l	100
25) Chloroform	5.111	83	37832	3.960	ug/l	89
26) Cyclohexane	5.489	56	35396	3.757	ug/l #	100
29) 1,1-Dichloropropene	5.714	75	25967	4.818	ug/l	83
30) 2-Butanone	4.580	43	63779	25.054	ug/l #	93
31) 2,2-Dichloropropane	4.495	77	28413	4.910	ug/l	92
32) 1,1,1-Trichloroethane	5.403	97	31958	4.789	ug/l #	68
33) Carbon Tetrachloride	5.702	117	12470m	2.641	ug/l	
34) Benzene	6.050	78	82862	5.208	ug/l	99
35) Methacrylonitrile	4.946	41	12800m	4.651	ug/l	
36) 1,2-Dichloroethane	6.098	62	28794	5.039	ug/l	97
37) Trichloroethene	7.141	130	20214	5.048	ug/l	88
38) Methylcyclohexane	7.391	83	34703	4.995	ug/l	98
39) 1,2-Dichloropropane	7.440	63	20619	5.055	ug/l	97
40) Dibromomethane	7.592	93	11302	3.972	ug/l	84
41) Bromodichloromethane	7.830	83	27740	4.659	ug/l	92
42) Vinyl Acetate	3.739	43	277547	23.717	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.739	43	29012	4.998	ug/l #	83
44) Isopropyl Acetate	6.354	43	42422	4.645	ug/l	97
45) 1,4-Dioxane	7.726	88	5948m	104.208	ug/l	
46) Methyl methacrylate	7.702	41	20866	4.452	ug/l	83
47) n-amyl Acetate	10.841	43	38648	4.840	ug/l	97
48) t-1,3-Dichloropropene	8.982	75	26003	4.518	ug/l	98
49) cis-1,3-Dichloropropene	8.372	75	30476	4.841	ug/l #	89
50) 1,1,2-Trichloroethane	9.153	97	17967	4.748	ug/l #	92
51) Ethyl methacrylate	9.122	69	28306	4.588	ug/l	89
52) 1,3-Dichloropropane	9.311	76	33389	5.086	ug/l	99
53) Dibromochloromethane	9.525	129	14737m	10.604	ug/l	
54) 1,2-Dibromoethane	9.610	107	18009	4.546	ug/l	90
55) 2-Chloroethyl vinyl ether	8.244	63	65439	21.753	ug/l	98
56) Bromoform	10.805	173	5569m	98.896	ug/l	
58) 4-Methyl-2-Pentanone	8.580	43	133214	24.168	ug/l	99
59) 2-Hexanone	9.433	43	95135	24.398	ug/l	100
61) Tetrachloroethene	9.275	164	17856	5.162	ug/l	98
62) Toluene	8.720	91	89210	5.050	ug/l	99
64) Chlorobenzene	10.079	112	56194	4.960	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	16990	4.744	ug/l	82
66) Ethyl Benzene	10.195	91	100361	4.965	ug/l	100
67) m/p-Xylenes	10.299	106	75388	10.064	ug/l	95
68) o-Xylene	10.640	106	36993	5.121	ug/l	98
69) Styrene	10.658	104	59499	4.802	ug/l	98
70) Isopropylbenzene	10.963	105	99838	5.188	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	28786	5.042	ug/l	94
72) 1,2,3-Trichloropropane	11.238	75	19866m	4.518	ug/l	
73) Bromobenzene	11.195	156	24752	5.374	ug/l	98
74) n-propylbenzene	11.305	91	118105	5.112	ug/l	100
75) 2-Chlorotoluene	11.366	91	69983	5.119	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	81649	5.157	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	2326m	3.575	ug/l	
78) 4-Chlorotoluene	11.451	91	82617	5.241	ug/l	99
79) tert-butylbenzene	11.713	119	82208	5.188	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	82849	5.276	ug/l	97
81) sec-Butylbenzene	11.890	105	102797	5.199	ug/l	98
82) p-Isopropyltoluene	12.006	119	85865	5.226	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	43842	5.095	ug/l	97
84) 1,4-Dichlorobenzene	12.042	146	46300	5.429	ug/l	97
85) n-Butylbenzene	12.329	91	80922	5.132	ug/l	98
86) Hexachloroethane	12.542	117	5259m	2.302	ug/l	
87) 1,2-Dichlorobenzene	12.335	146	42748	5.297	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	6368	5.153	ug/l #	71
89) 1,2,4-Trichlorobenzene	13.585	180	27468	4.923	ug/l	98
90) Hexachlorobutadiene	13.725	225	10382m	8.373	ug/l	
91) Naphthalene	13.774	128	139120	7.386	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	26253	4.903	ug/l	95

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

