

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072525\
 Data File : VX047148.D
 Acq On : 25 Jul 2025 17:27
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Quant Time: Jul 26 04:47:49 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	43525m	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	341989	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	307023	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	140532	25.565	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	85.233%#
60) 4-Bromofluorobenzene	11.079	95	154669	30.917	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	103.067%
63) Toluene-d8	8.653	98	403426	30.168	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.567%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.185	85	17235	3.479	ug/l	97
3) Chloromethane	1.313	50	18956	4.258	ug/l	98
4) Vinyl Chloride	1.392	62	22453	4.212	ug/l	91
5) Bromomethane	1.630	94	10483m	4.864	ug/l	
6) Chloroethane	1.709	64	13339	4.433	ug/l	97
7) Trichlorofluoromethane	1.910	101	27748	3.831	ug/l	98
8) Diethyl Ether	2.148	74	11392	4.310	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.349	101	17507	4.068	ug/l	91
10) 1,1-Dichloroethene	2.337	96	17894	4.064	ug/l	97
11) Methyl Iodide	2.471	142	28753	4.231	ug/l #	95
12) Methyl Acetate	2.715	43	23210	4.235	ug/l	94
13) Acrolein	2.252	56	13228	18.047	ug/l	97
14) Acrylonitrile	3.087	53	47379	20.946	ug/l	98
15) Acetone	2.392	58	12552	22.605	ug/l	94
16) Carbon Disulfide	2.532	76	65854	5.159	ug/l	98
17) Allyl chloride	2.685	41	31153	4.141	ug/l	96
18) Methylene Chloride	2.806	84	21105	4.441	ug/l	87
19) trans-1,2-Dichloroethene	3.111	96	19426m	4.308	ug/l	
20) Diisopropyl ether	3.770	45	70513	4.384	ug/l #	72
21) 1,1-Dichloroethane	3.629	63	38814	4.433	ug/l	98
22) cis-1,2-Dichloroethene	4.501	96	25793m	4.684	ug/l	
23) tert-Butyl Alcohol	2.959	59	14667	23.356	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	65044	4.410	ug/l	99
25) Chloroform	5.111	83	37748	4.379	ug/l	94
26) Cyclohexane	5.483	56	39225	4.614	ug/l #	99
29) 1,1-Dichloropropene	5.708	75	29199	5.482	ug/l	79
30) 2-Butanone	4.581	43	65225	25.925	ug/l #	88
31) 2,2-Dichloropropane	4.495	77	29336	5.129	ug/l #	75
32) 1,1,1-Trichloroethane	5.391	97	34077m	5.166	ug/l	
33) Carbon Tetrachloride	5.690	117	19397m	4.156	ug/l	
34) Benzene	6.050	78	80745	5.135	ug/l #	80
35) Methacrylonitrile	4.940	41	14089	5.180	ug/l #	83
36) 1,2-Dichloroethane	6.099	62	31157m	5.517	ug/l	
37) Trichloroethene	7.135	130	19973	5.047	ug/l	92
38) Methylcyclohexane	7.391	83	37221	5.420	ug/l	98
39) 1,2-Dichloropropane	7.440	63	21507	5.335	ug/l	93
40) Dibromomethane	7.598	93	14200m	5.049	ug/l	
41) Bromodichloromethane	7.824	83	30948	5.259	ug/l #	95
42) Vinyl Acetate	3.739	43	294710	25.481	ug/l	99

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43) Ethyl Acetate	4.733	43	32391m	5.646	ug/l	
44) Isopropyl Acetate	6.355	43	44663	4.948	ug/l	98
45) 1,4-Dioxane	7.720	88	6512m	115.439	ug/l	
46) Methyl methacrylate	7.702	41	23834	5.146	ug/l	93
47) n-amyl Acetate	10.842	43	40470	5.128	ug/l	96
48) t-1,3-Dichloropropene	8.982	75	28619	5.032	ug/l	94
49) cis-1,3-Dichloropropene	8.373	75	32303	5.192	ug/l	92
50) 1,1,2-Trichloroethane	9.153	97	20233	5.410	ug/l	94
51) Ethyl methacrylate	9.122	69	30162	4.947	ug/l	95
52) 1,3-Dichloropropane	9.311	76	36103	5.564	ug/l	100
53) Dibromochloromethane	9.537	129	4263m	3.104	ug/l	
54) 1,2-Dibromoethane	9.610	107	21419	5.471	ug/l	91
55) 2-Chloroethyl vinyl ether	8.245	63	69106	23.243	ug/l	99
56) Bromoform	10.823	173	632m	11.356	ug/l	
58) 4-Methyl-2-Pentanone	8.574	43	138064	25.773	ug/l	99
59) 2-Hexanone	9.433	43	99914	26.366	ug/l	99
61) Tetrachloroethene	9.275	164	18627	5.541	ug/l	96
62) Toluene	8.720	91	93542	5.448	ug/l	100
64) Chlorobenzene	10.080	112	59888	5.440	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	13455	3.866	ug/l	80
66) Ethyl Benzene	10.195	91	107985	5.497	ug/l	97
67) m/p-Xylenes	10.299	106	79814	10.963	ug/l	98
68) o-Xylene	10.640	106	37990	5.411	ug/l	97
69) Styrene	10.659	104	65521	5.441	ug/l	99
70) Isopropylbenzene	10.964	105	103798	5.550	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	31698	5.713	ug/l	97
72) 1,2,3-Trichloropropane	11.238	75	22894m	5.358	ug/l	
73) Bromobenzene	11.195	156	25638	5.728	ug/l	98
74) n-propylbenzene	11.305	91	126791	5.647	ug/l	100
75) 2-Chlorotoluene	11.366	91	76756	5.777	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	88224	5.734	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	1787	2.826	ug/l	91
78) 4-Chlorotoluene	11.451	91	87328	5.700	ug/l	100
79) tert-butylbenzene	11.713	119	86419	5.612	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	86879	5.693	ug/l	99
81) sec-Butylbenzene	11.890	105	110068	5.728	ug/l	99
82) p-Isopropyltoluene	12.006	119	91725	5.744	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	48602	5.812	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	48505	5.852	ug/l	97
85) n-Butylbenzene	12.329	91	90950	5.935	ug/l	100
86) Hexachloroethane	12.536	117	12333	5.554	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	44949	5.731	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	6858	5.710	ug/l	94
89) 1,2,4-Trichlorobenzene	13.585	180	32714	6.033	ug/l	97
90) Hexachlorobutadiene	13.725	225	5179m	4.298	ug/l	
91) Naphthalene	13.774	128	112406	6.141	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	31484	6.051	ug/l	98

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

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