

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
 Data File : VX046626.D
 Acq On : 11 Jun 2025 01:16
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Quant Time: Jun 11 06:53:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 11 06:20:28 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 06/11/2025
 Supervised By : Mahesh Dadoda 06/11/2025

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

Internal Standards						
1) Bromochloromethane	4.910	128	19228	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	102449	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	91866	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	47446	30.483	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.600%
60) 4-Bromofluorobenzene	11.079	95	47375	30.595	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	102.000%
63) Toluene-d8	8.647	98	125975	30.700	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	102.333%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.185	85	23158	18.525	ug/l	94
3) Chloromethane	1.307	50	22858	17.747	ug/l	94
4) Vinyl Chloride	1.386	62	22674	18.261	ug/l #	57
5) Bromomethane	1.624	94	8749	11.798	ug/l	94
6) Chloroethane	1.703	64	11031	15.464	ug/l	100
7) Trichlorofluoromethane	1.904	101	32519	18.285	ug/l	99
8) Diethyl Ether	2.148	74	11616	18.641	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.349	101	21742	18.374	ug/l	99
10) 1,1-Dichloroethene	2.337	96	21137	18.415	ug/l	95
11) Methyl Iodide	2.471	142	21851	13.963	ug/l	95
12) Methyl Acetate	2.715	43	26565	18.361	ug/l	94
13) Acrolein	2.246	56	14427	101.760	ug/l	100
14) Acrylonitrile	3.075	53	55472	93.297	ug/l	97
15) Acetone	2.386	58	13374	98.367	ug/l	94
16) Carbon Disulfide	2.526	76	62850	19.736	ug/l	100
17) Allyl chloride	2.678	41	38368	18.423	ug/l	97
18) Methylene Chloride	2.806	84	23594	18.625	ug/l	97
19) trans-1,2-Dichloroethene	3.105	96	21888	18.401	ug/l	99
20) Diisopropyl ether	3.776	45	77249	19.606	ug/l	98
21) 1,1-Dichloroethane	3.623	63	42853	18.983	ug/l	98
22) cis-1,2-Dichloroethene	4.501	96	25820	18.619	ug/l	98
23) tert-Butyl Alcohol	2.959	59	12036	100.227	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	68142	19.434	ug/l	99
25) Chloroform	5.105	83	45394	19.536	ug/l	98
26) Cyclohexane	5.489	56	38597	18.739	ug/l #	100
29) 1,1-Dichloropropene	5.708	75	29640	18.388	ug/l	96
30) 2-Butanone	4.568	43	70140	97.657	ug/l	98
31) 2,2-Dichloropropane	4.489	77	23631	16.514	ug/l	98
32) 1,1,1-Trichloroethane	5.397	97	38413	19.287	ug/l	98
33) Carbon Tetrachloride	5.690	117	33678	19.053	ug/l	98
34) Benzene	6.050	78	92063	19.440	ug/l	97
35) Methacrylonitrile	4.940	41	17205	19.535	ug/l	92
36) 1,2-Dichloroethane	6.092	62	34778	19.410	ug/l	99
37) Trichloroethene	7.135	130	22526	18.955	ug/l	87
38) Methylcyclohexane	7.385	83	38615	18.873	ug/l	96
39) 1,2-Dichloropropane	7.434	63	22891	19.377	ug/l #	89
40) Dibromomethane	7.586	93	17195	19.470	ug/l	99
41) Bromodichloromethane	7.824	83	33741	18.753	ug/l #	90
42) Vinyl Acetate	3.733	43	298823	96.420	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.733	43	28594m	18.794	ug/l	
44) Isopropyl Acetate	6.349	43	45841	19.263	ug/l	99
45) 1,4-Dioxane	7.665	88	6024	401.305	ug/l	96
46) Methyl methacrylate	7.702	41	24809	19.093	ug/l	97
47) n-amyl Acetate	10.842	43	41964	19.714	ug/l	100
48) t-1,3-Dichloropropene	8.982	75	29226	18.120	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	33012	18.332	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	21377	19.206	ug/l	96
51) Ethyl methacrylate	9.116	69	31850	18.819	ug/l	98
52) 1,3-Dichloropropane	9.311	76	37994	19.597	ug/l	99
53) Dibromochloromethane	9.519	129	25018	19.070	ug/l	98
54) 1,2-Dibromoethane	9.610	107	21861	18.672	ug/l	98
55) 2-Chloroethyl vinyl ether	8.245	63	88617	100.259	ug/l	100
56) Bromoform	10.799	173	15155	18.693	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	150631	100.804	ug/l	98
59) 2-Hexanone	9.433	43	104811	99.425	ug/l	99
61) Tetrachloroethene	9.275	164	18357	19.067	ug/l	100
62) Toluene	8.720	91	98221	19.729	ug/l	100
64) Chlorobenzene	10.080	112	62033	19.318	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	20903	19.423	ug/l	99
66) Ethyl Benzene	10.195	91	110127	19.373	ug/l	98
67) m/p-Xylenes	10.299	106	83016	39.482	ug/l	100
68) o-Xylene	10.640	106	40098	19.806	ug/l	99
69) Styrene	10.653	104	67393	19.421	ug/l	98
70) Isopropylbenzene	10.964	105	107291	19.748	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.207	83	31409	19.680	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	25928m	19.460	ug/l	
73) Bromobenzene	11.195	156	24970	19.607	ug/l	100
74) n-propylbenzene	11.305	91	128189	19.732	ug/l	99
75) 2-Chlorotoluene	11.360	91	77521	19.932	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	90121	19.964	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	8004	17.783	ug/l	91
78) 4-Chlorotoluene	11.451	91	90517	20.116	ug/l	99
79) tert-butylbenzene	11.713	119	88296	19.613	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	89109	19.988	ug/l	99
81) sec-Butylbenzene	11.890	105	113739	19.743	ug/l	100
82) p-Isopropyltoluene	12.006	119	94709	20.030	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	47111	19.873	ug/l	99
84) 1,4-Dichlorobenzene	12.037	146	47372	19.871	ug/l	98
85) n-Butylbenzene	12.329	91	88396	19.406	ug/l	100
86) Hexachloroethane	12.536	117	15414	18.771	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	45082	19.767	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.939	75	6233	18.932	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	29340	19.513	ug/l	99
90) Hexachlorobutadiene	13.725	225	12366	18.678	ug/l	98
91) Naphthalene	13.774	128	92211	19.330	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	29275	19.836	ug/l	99

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

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