

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031925\
 Data File : VX045340.D
 Acq On : 19 Mar 2025 10:41
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/20/2025
 Supervised By : Mahesh Dadoda 03/20/2025

Quant Time: Mar 20 01:30:50 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Feb 22 01:06:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	16449	30.000	ug/l	0.01
28) 1,4-Difluorobenzene	6.757	114	86152	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	80895	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	52421	32.812	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 109.367%			
60) 4-Bromofluorobenzene	11.079	95	47245	31.246	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 104.167%			
63) Toluene-d8	8.647	98	134720	30.103	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.333%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	28861	20.814	ug/l	95
3) Chloromethane	1.307	50	29803	17.945	ug/l	99
4) Vinyl Chloride	1.374	62	27895	17.406	ug/l	93
5) Bromomethane	1.593	94	12365	22.166	ug/l	99
6) Chloroethane	1.666	64	14707	16.944	ug/l	95
7) Trichlorofluoromethane	1.874	101	40466	18.787	ug/l	98
8) Diethyl Ether	2.130	74	13892	17.046	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	27092	21.178	ug/l	98
10) 1,1-Dichloroethene	2.313	96	25210	20.176	ug/l	93
11) Methyl Iodide	2.441	142	29634	20.954	ug/l	97
12) Methyl Acetate	2.703	43	48377	33.340	ug/l	96
13) Acrolein	2.233	56	34607	118.988	ug/l	99
14) Acrylonitrile	3.062	53	80413	113.456	ug/l	97
15) Acetone	2.380	58	21649	111.373	ug/l	93
16) Carbon Disulfide	2.502	76	57310	16.170	ug/l	100
17) Allyl chloride	2.654	41	45792	19.594	ug/l	96
18) Methylene Chloride	2.782	84	28292	20.130	ug/l	94
19) trans-1,2-Dichloroethene	3.081	96	24177	19.124	ug/l	90
20) Diisopropyl ether	3.757	45	89800	19.995	ug/l	91
21) 1,1-Dichloroethane	3.605	63	50635	20.273	ug/l	98
22) cis-1,2-Dichloroethene	4.477	96	30571	20.180	ug/l	100
23) tert-Butyl Alcohol	2.977	59	23432	94.701	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	82928	20.334	ug/l	94
25) Chloroform	5.080	83	51829	21.483	ug/l	99
26) Cyclohexane	5.458	56	44003	19.086	ug/l #	99
29) 1,1-Dichloropropene	5.684	75	32662	20.610	ug/l	99
30) 2-Butanone	4.556	43	113838	124.364	ug/l	98
31) 2,2-Dichloropropane	4.465	77	34312	19.147	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	41753	21.744	ug/l	97
33) Carbon Tetrachloride	5.666	117	34574	21.335	ug/l	96
34) Benzene	6.031	78	105267	21.181	ug/l	98
35) Methacrylonitrile	4.916	41	23610	24.103	ug/l	97
36) 1,2-Dichloroethane	6.080	62	39838	23.413	ug/l	97
37) Trichloroethene	7.123	130	24342	20.936	ug/l	99
38) Methylcyclohexane	7.373	83	42471	19.959	ug/l	99
39) 1,2-Dichloropropane	7.428	63	25728	20.823	ug/l	98
40) Dibromomethane	7.580	93	19891	22.434	ug/l	95
41) Bromodichloromethane	7.818	83	39228	22.261	ug/l	99
42) Vinyl Acetate	3.715	43	360651	101.532	ug/l	99

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 QLast Update : Sat Feb 22 01:06:36 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	41125	23.957	ug/l	97
44) Isopropyl Acetate	6.342	43	62292	22.048	ug/l	98
45) 1,4-Dioxane	7.659	88	11574	394.071	ug/l	99
46) Methyl methacrylate	7.690	41	33143	23.923	ug/l	91
47) n-amyl Acetate	10.842	43	50805	20.723	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	32357	19.050	ug/l	98
49) cis-1,3-Dichloropropene	8.360	75	38687	20.120	ug/l	94
50) 1,1,2-Trichloroethane	9.147	97	25507	22.055	ug/l	96
51) Ethyl methacrylate	9.116	69	38805	21.334	ug/l	95
52) 1,3-Dichloropropane	9.305	76	45730	22.567	ug/l	98
53) Dibromochloromethane	9.519	129	27768	21.709	ug/l	96
54) 1,2-Dibromoethane	9.610	107	25822	21.988	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	96601	103.422	ug/l	99
56) Bromoform	10.799	173	16989	21.196	ug/l	99
58) 4-Methyl-2-Pentanone	8.568	43	224283	121.880	ug/l	100
59) 2-Hexanone	9.427	43	163850	123.186	ug/l	98
61) Tetrachloroethene	9.269	164	21660	21.744	ug/l	95
62) Toluene	8.714	91	111284	20.767	ug/l	99
64) Chlorobenzene	10.079	112	69016	20.784	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	23101	21.083	ug/l	99
66) Ethyl Benzene	10.189	91	122105	20.813	ug/l	98
67) m/p-Xylenes	10.299	106	92122	42.144	ug/l	97
68) o-Xylene	10.640	106	43730	20.390	ug/l	93
69) Styrene	10.653	104	75199	20.993	ug/l	98
70) Isopropylbenzene	10.957	105	119932	21.669	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	41882	23.012	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	34753m	23.216	ug/l	
73) Bromobenzene	11.195	156	26330	20.665	ug/l	97
74) n-propylbenzene	11.299	91	138300	20.998	ug/l	98
75) 2-Chlorotoluene	11.360	91	86063	21.614	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	97415	21.335	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	9701	19.262	ug/l	81
78) 4-Chlorotoluene	11.451	91	94621	21.317	ug/l	97
79) tert-butylbenzene	11.713	119	96957	21.075	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	97205	21.253	ug/l	99
81) sec-Butylbenzene	11.890	105	125123	21.671	ug/l	99
82) p-Isopropyltoluene	12.006	119	99482	21.265	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	48062	20.274	ug/l	98
84) 1,4-Dichlorobenzene	12.036	146	48764	20.863	ug/l	99
85) n-Butylbenzene	12.329	91	86472	20.241	ug/l	99
86) Hexachloroethane	12.536	117	16565	20.077	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	48429	20.821	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	8082	22.936	ug/l	95
89) 1,2,4-Trichlorobenzene	13.585	180	27076	19.206	ug/l	97
90) Hexachlorobutadiene	13.725	225	11744	20.427	ug/l	94
91) Naphthalene	13.774	128	99680	20.053	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	28538	19.663	ug/l	98

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

