

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022425\
 Data File : VX045027.D
 Acq On : 24 Feb 2025 16:40
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/25/2025
 Supervised By : Mahesh Dadoda 02/25/2025

Quant Time: Feb 25 00:31:34 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	4.885	128	19280	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.751	114	106629	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	98509	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	57294	30.596	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.000%			
60) 4-Bromofluorobenzene	11.079	95	54742	29.731	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.100%			
63) Toluene-d8	8.641	98	160575	29.465	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.200%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	32233	19.832	ug/l	96
3) Chloromethane	1.307	50	36503	18.752	ug/l	98
4) Vinyl Chloride	1.367	62	35757	19.036	ug/l	96
5) Bromomethane	1.593	94	12520	19.148	ug/l	99
6) Chloroethane	1.672	64	18071	17.763	ug/l	94
7) Trichlorofluoromethane	1.880	101	50595	20.041	ug/l	96
8) Diethyl Ether	2.130	74	18062	18.909	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	29185	19.464	ug/l	99
10) 1,1-Dichloroethene	2.312	96	28139	19.213	ug/l	95
11) Methyl Iodide	2.447	142	28445	17.160	ug/l	97
12) Methyl Acetate	2.697	43	38473	22.621	ug/l	94
13) Acrolein	2.233	56	39339	115.397	ug/l	99
14) Acrylonitrile	3.056	53	90229	108.613	ug/l	98
15) Acetone	2.373	58	24164	106.058	ug/l	99
16) Carbon Disulfide	2.501	76	77398	18.631	ug/l	97
17) Allyl chloride	2.654	41	53504	19.532	ug/l	97
18) Methylene Chloride	2.782	84	32392	19.663	ug/l	98
19) trans-1,2-Dichloroethene	3.081	96	28210	19.038	ug/l	90
20) Diisopropyl ether	3.751	45	99738	18.947	ug/l	96
21) 1,1-Dichloroethane	3.605	63	56976	19.462	ug/l	99
22) cis-1,2-Dichloroethene	4.477	96	33530	18.883	ug/l	98
23) tert-Butyl Alcohol	2.959	59	32641	112.549	ug/l #	100
24) Methyl tert-Butyl Ether	3.105	73	91670	19.177	ug/l	99
25) Chloroform	5.080	83	55001	19.450	ug/l	100
26) Cyclohexane	5.458	56	51210	18.951	ug/l #	96
29) 1,1-Dichloropropene	5.684	75	37533	19.135	ug/l	99
30) 2-Butanone	4.550	43	125650	110.907	ug/l	99
31) 2,2-Dichloropropane	4.465	77	41385	18.659	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	46455	19.547	ug/l	99
33) Carbon Tetrachloride	5.665	117	39288	19.588	ug/l	96
34) Benzene	6.031	78	121003	19.672	ug/l	98
35) Methacrylonitrile	4.910	41	26253	21.655	ug/l	96
36) 1,2-Dichloroethane	6.080	62	40831	19.389	ug/l	97
37) Trichloroethene	7.116	130	28090	19.520	ug/l	100
38) Methylcyclohexane	7.373	83	50279	19.091	ug/l	96
39) 1,2-Dichloropropane	7.421	63	29223	19.109	ug/l	98
40) Dibromomethane	7.574	93	21313	19.422	ug/l	98
41) Bromodichloromethane	7.811	83	41952	19.235	ug/l	98
42) Vinyl Acetate	3.715	43	429727	97.746	ug/l	99

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 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
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.702	43	42973	20.226	ug/l	100
44) Isopropyl Acetate	6.330	43	72161	20.636	ug/l	99
45) 1,4-Dioxane	7.653	88	16946	466.175	ug/l	97
46) Methyl methacrylate	7.690	41	34607	20.183	ug/l	98
47) n-amyl Acetate	10.841	43	60687	20.000	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	39533	18.805	ug/l	94
49) cis-1,3-Dichloropropene	8.360	75	45403	19.078	ug/l	98
50) 1,1,2-Trichloroethane	9.147	97	29192	20.394	ug/l	98
51) Ethyl methacrylate	9.110	69	43024	19.111	ug/l	95
52) 1,3-Dichloropropane	9.305	76	49487	19.731	ug/l	99
53) Dibromochloromethane	9.518	129	31709	20.030	ug/l	97
54) 1,2-Dibromoethane	9.604	107	29634	20.388	ug/l	98
55) 2-Chloroethyl vinyl ether	8.232	63	115825	100.190	ug/l	99
56) Bromoform	10.799	173	20213	20.375	ug/l	97
58) 4-Methyl-2-Pentanone	8.567	43	244145	108.951	ug/l	100
59) 2-Hexanone	9.427	43	177738	109.733	ug/l	100
61) Tetrachloroethene	9.269	164	23696	19.534	ug/l	98
62) Toluene	8.714	91	126429	19.374	ug/l	98
64) Chlorobenzene	10.073	112	78672	19.455	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.159	131	25087	18.802	ug/l	96
66) Ethyl Benzene	10.189	91	134118	18.773	ug/l	98
67) m/p-Xylenes	10.299	106	102573	38.535	ug/l	99
68) o-Xylene	10.640	106	50850	19.470	ug/l	99
69) Styrene	10.652	104	84269	19.319	ug/l	99
70) Isopropylbenzene	10.957	105	130285	19.331	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	45578	20.565	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	37998m	20.845	ug/l	
73) Bromobenzene	11.195	156	30597	19.720	ug/l	98
74) n-propylbenzene	11.299	91	155539	19.393	ug/l	98
75) 2-Chlorotoluene	11.360	91	95197	19.633	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	109806	19.749	ug/l	99
77) t-1,4-Dichloro-2-butene	11.012	75	11485	18.727	ug/l	96
78) 4-Chlorotoluene	11.451	91	105157	19.455	ug/l	98
79) tert-butylbenzene	11.713	119	111133	19.837	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	108297	19.444	ug/l	98
81) sec-Butylbenzene	11.884	105	139903	19.898	ug/l	100
82) p-Isopropyltoluene	12.006	119	113477	19.919	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	56124	19.442	ug/l	98
84) 1,4-Dichlorobenzene	12.036	146	56601	19.886	ug/l	100
85) n-Butylbenzene	12.329	91	99008	19.032	ug/l	98
86) Hexachloroethane	12.536	117	19557	19.465	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	57047	20.140	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	8585	20.007	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	32535	18.952	ug/l	98
90) Hexachlorobutadiene	13.725	225	13451	19.213	ug/l	94
91) Naphthalene	13.774	128	118821	19.629	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	32951	18.644	ug/l	98

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

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