

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050923\
 Data File : VN077625.D
 Acq On : 09 May 2023 11:22
 Operator : JC\MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC010

Quant Time: May 09 13:27:11 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N050923W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 09 13:25:20 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 05/09/2023
 Supervised By : Mahesh Dadoda 05/10/2023

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

Internal Standards						
1) Pentafluorobenzene	8.231	168	581119	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.107	114	1043619	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.866	117	926848	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.795	152	361784	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.584	65	68165	9.249	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	18.500%#		
35) Dibromofluoromethane	8.172	113	62923	9.667	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	19.340%#		
50) Toluene-d8	10.572	98	227697	9.240	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	18.480%#		
62) 4-Bromofluorobenzene	12.854	95	73201	8.783	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	17.560%#		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.137	85	64189	9.882	ug/l	92
3) Chloromethane	2.372	50	56183	9.811	ug/l	90
4) Vinyl Chloride	2.525	62	72882	9.405	ug/l	92
5) Bromomethane	2.978	94	58513	9.511	ug/l	94
6) Chloroethane	3.137	64	50502	9.399	ug/l	99
7) Trichlorofluoromethane	3.507	101	128477	10.577	ug/l	98
8) Diethyl Ether	3.978	74	35461	9.930	ug/l	94
9) 1,1,2-Trichlorotrifluo...	4.378	101	57428	9.462	ug/l	96
10) Methyl Iodide	4.602	142	84689	9.452	ug/l	92
11) Tert butyl alcohol	5.525	59	42703	49.255	ug/l #	92
12) 1,1-Dichloroethene	4.349	96	56824	9.853	ug/l	91
13) Acrolein	4.190	56	40977	48.767	ug/l	99
14) Allyl chloride	5.031	41	54540	9.522	ug/l #	87
15) Acrylonitrile	5.737	53	103469	48.250	ug/l	99
16) Acetone	4.437	43	82303	46.888	ug/l	93
17) Carbon Disulfide	4.725	76	128969	9.299	ug/l #	91
18) Methyl Acetate	5.043	43	63371	9.135	ug/l	96
19) Methyl tert-butyl Ether	5.801	73	177525	9.355	ug/l	92
20) Methylene Chloride	5.290	84	65732	9.063	ug/l	92
21) trans-1,2-Dichloroethene	5.796	96	63465	9.729	ug/l	98
22) Diisopropyl ether	6.684	45	135631	9.591	ug/l #	94
23) Vinyl Acetate	6.613	43	326145	40.418	ug/l	97
24) 1,1-Dichloroethane	6.572	63	101833	9.500	ug/l	98
25) 2-Butanone	7.490	43	123146	48.141	ug/l	98
26) 2,2-Dichloropropane	7.501	77	92853	9.558	ug/l	97
27) cis-1,2-Dichloroethene	7.495	96	71226	8.976	ug/l	97
28) Bromochloromethane	7.819	49	35995	9.203	ug/l	88
29) Tetrahydrofuran	7.842	42	76648	48.779	ug/l	97
30) Chloroform	7.972	83	119513	9.407	ug/l	96
31) Cyclohexane	8.266	56	93052	9.880	ug/l	94
32) 1,1,1-Trichloroethane	8.172	97	111332	9.518	ug/l	94
36) 1,1-Dichloropropene	8.378	75	88091	9.807	ug/l	95
37) Ethyl Acetate	7.566	43	46013	8.959	ug/l	96
38) Carbon Tetrachloride	8.366	117	92979	9.475	ug/l	95
39) Methylcyclohexane	9.601	83	103953	9.323	ug/l	93
40) Benzene	8.607	78	260996	9.605	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	7.784	41	26454	9.427	ug/l	92
42) 1,2-Dichloroethane	8.678	62	87675	9.622	ug/l	100
43) Isopropyl Acetate	8.695	43	87819	9.752	ug/l	98
44) Trichloroethene	9.354	130	66615	9.332	ug/l	91
45) 1,2-Dichloropropane	9.625	63	57299	9.171	ug/l	93
46) Dibromomethane	9.707	93	45865	9.437	ug/l	92
47) Bromodichloromethane	9.889	83	90797	9.565	ug/l	99
48) Methyl methacrylate	9.684	41	40234	9.520	ug/l	98
49) 1,4-Dioxane	9.701	88	23162	184.270	ug/l	97
51) 4-Methyl-2-Pentanone	10.448	43	254448	48.029	ug/l	98
52) Toluene	10.631	92	169497	9.378	ug/l	98
53) t-1,3-Dichloropropene	10.842	75	82114	8.878	ug/l	93
54) cis-1,3-Dichloropropene	10.313	75	95141	9.041	ug/l	97
55) 1,1,2-Trichloroethane	11.019	97	65982	9.415	ug/l	96
56) Ethyl methacrylate	10.878	69	83844	9.487	ug/l	90
57) 1,3-Dichloropropane	11.166	76	106250	9.432	ug/l	100
58) 2-Chloroethyl Vinyl ether	10.160	63	200486	52.294	ug/l	97
59) 2-Hexanone	11.195	43	178183	47.588	ug/l	98
60) Dibromochloromethane	11.360	129	65061	9.352	ug/l	98
61) 1,2-Dibromoethane	11.472	107	64490	9.360	ug/l	100
64) Tetrachloroethene	11.107	164	54544	9.888	ug/l	96
65) Chlorobenzene	11.895	112	182359	9.572	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.960	131	65696	9.571	ug/l	98
67) Ethyl Benzene	11.966	91	319249	9.545	ug/l	99
68) m/p-Xylenes	12.078	106	251694	19.006	ug/l	99
69) o-Xylene	12.401	106	125632	9.465	ug/l	98
70) Styrene	12.413	104	191117	9.401	ug/l	99
71) Bromoform	12.577	173	38007	9.125	ug/l #	99
73) Isopropylbenzene	12.701	105	319454	9.898	ug/l	100
74) N-amyl acetate	12.501	43	68347	9.596	ug/l #	97
75) 1,1,2,2-Tetrachloroethane	12.936	83	87632	9.877	ug/l	99
76) 1,2,3-Trichloropropane	13.001	75	72545m	10.181	ug/l	
77) Bromobenzene	12.983	156	66856	9.354	ug/l	97
78) n-propylbenzene	13.036	91	333443	9.625	ug/l	97
79) 2-Chlorotoluene	13.130	91	214436	9.718	ug/l	100
80) 1,3,5-Trimethylbenzene	13.177	105	235040	9.519	ug/l	97
81) trans-1,4-Dichloro-2-b...	12.736	75	24537	10.465	ug/l	92
82) 4-Chlorotoluene	13.224	91	197973	9.567	ug/l	98
83) tert-Butylbenzene	13.442	119	227533	9.807	ug/l	97
84) 1,2,4-Trimethylbenzene	13.489	105	212300	9.149	ug/l	99
85) sec-Butylbenzene	13.619	105	297715	9.532	ug/l	99
86) p-Isopropyltoluene	13.736	119	232624	9.525	ug/l	98
87) 1,3-Dichlorobenzene	13.736	146	116187	9.352	ug/l	99
88) 1,4-Dichlorobenzene	13.813	146	119168	9.649	ug/l	97
89) n-Butylbenzene	14.060	91	163914	8.469	ug/l	98
90) Hexachloroethane	14.336	117	41183	8.793	ug/l	86
91) 1,2-Dichlorobenzene	14.107	146	120960	9.793	ug/l	99
92) 1,2-Dibromo-3-Chloropr...	14.724	75	14287	9.099	ug/l	95
93) 1,2,4-Trichlorobenzene	15.395	180	26356	9.118	ug/l	89
94) Hexachlorobutadiene	15.501	225	23562	8.928	ug/l	96
95) Naphthalene	15.642	128	82511	8.829	ug/l	97
96) 1,2,3-Trichlorobenzene	15.842	180	26443	9.397	ug/l	97

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

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The chromatogram displays a series of peaks over a 16-minute period. The y-axis represents Abundance from 0 to 1,800,000, and the x-axis represents Time from 2.00 to 16.00 minutes. The following table lists the labeled compounds and their approximate retention times:

Compound	Approximate Retention Time (min)
Dichlorodifluoromethane, T	2.2
Chloromethane, P	2.5
Vinyl Chloride, C	2.8
Bromomethane, T	3.2
Chloroethane, T	3.5
Trichlorodifluoromethane, T	3.8
Diethyl Ether, T	4.2
Acrolein, T	4.5
Acetone, T	4.8
1,1-Dichloroethane, T	5.0
Methyl iodide, T	5.2
Carbon Disulfide, T	5.5
Methyl acetate, T	5.8
Methylene Chloride, T	6.0
Tert butyl alcohol, T	6.2
Acrylonitrile, T	6.5
trans-1,2-Dichloroethene, T	6.8
1,1-Dichloroethene, P, T	7.0
Diisopropyl ether, T	7.5
Ethyl Acetate, T	7.8
2,2-Dichloropropane, T	8.0
Methoxybenzene, T	8.2
Chloroform, C	8.5
Cyclohexane, T	8.8
1,3-Dichloropropane, T	9.0
1,2-Dichloroethane, T	9.2
Isopropyl acetate, T	9.5
1,4-Difluorobenzene, I	9.8
Trichloroethene, TM	10.0
Methylcyclohexane, T	10.2
Bromodichloromethane, T	10.5
cis-1,3-Dichloropropene, T	10.8
4-Methyl-2-Pentanone, T	11.0
Toluene, CM	11.2
1,1,1-Trichloroethane, T	11.5
1,1,2-Trichloroethane, T	11.8
1,3-Dichloropropane, T	12.0
1,2-Dibromomethane, T	12.2
Chlorobenzene, PM	12.5
1,1,1-Trichloroethane, T	12.8
Thip-Xylenes, I	13.0
Styrene, T	13.2
Bromide, T	13.5
trans-1,4-Dichloro-2-butene, T	13.8
1,1,1-Trichloroethane, T	14.0
1,1,2-Trichloroethane, T	14.2
4-Chlorobenzene, T	14.5
sec-Butylbenzene, T	14.8
1,4-Dichlorobenzene, T	15.0
1,2-Dibromo-3-Chloropropane, T	15.2
Hexachloroethane, T	15.5
1,2,4-Trichlorobenzene, T	15.8
Hexachlorobutadiene, T	16.0
Naphthalene, I	16.2
1,2,3-Trichlorobenzene, T	16.5