

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062322\
 Data File : VN073065.D
 Acq On : 23 Jun 2022 23:09
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/24/2022
 Supervised By : Mahesh Dadoda 06/28/2022

Quant Time: Jun 24 04:20:30 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062322W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jun 24 04:19:33 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.587	128	43457	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.904	114	257175	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.680	117	228172	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.369	65	131245	27.402	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	91.333%	
60) 4-Bromofluorobenzene	12.669	95	122382	26.447	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	88.167%	
63) Toluene-d8	10.375	98	378527	30.179	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	100.600%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.052	85	13360	4.003	ug/l	97
3) Chloromethane	2.269	50	15465	4.414	ug/l	92
4) Vinyl Chloride	2.410	62	13122	4.152	ug/l	97
5) Bromomethane	2.799	94	5709	3.635	ug/l	88
6) Chloroethane	2.957	64	9223	4.485	ug/l	93
7) Trichlorofluoromethane	3.322	101	24749	4.370	ug/l	90
8) Diethyl Ether	3.775	74	9722	4.360	ug/l	77
9) 1,1,2-Trichlorotrifluo...	4.140	101	13977	4.635	ug/l #	52
10) 1,1-Dichloroethene	4.116	96	14246m	4.897	ug/l	
11) Methyl Iodide	4.351	142	8822	3.156	ug/l	93
12) Methyl Acetate	4.787	43	35041	5.833	ug/l	91
13) Acrolein	3.987	56	14343	25.980	ug/l	99
14) Acrylonitrile	5.475	53	57685	24.013	ug/l	96
15) Acetone	4.234	58	15344	23.329	ug/l	97
16) Carbon Disulfide	4.463	76	35731	4.831	ug/l #	94
17) Allyl chloride	4.763	41	27673	4.565	ug/l	86
18) Methylene Chloride	5.004	84	18852m	5.261	ug/l	
19) trans-1,2-Dichloroethene	5.510	96	15860m	5.117	ug/l	
20) Diisopropyl ether	6.416	45	57137	4.716	ug/l #	93
21) 1,1-Dichloroethane	6.310	63	31250	4.660	ug/l	99
22) cis-1,2-Dichloroethene	7.245	96	18844	4.905	ug/l	95
23) tert-Butyl Alcohol	5.287	59	24554	22.789	ug/l #	100
24) Methyl tert-Butyl Ether	5.540	73	53622	4.319	ug/l	98
25) Chloroform	7.745	83	29963	4.382	ug/l	98
26) Cyclohexane	8.022	56	26924	4.776	ug/l #	92
29) 1,1-Dichloropropene	8.145	75	21169	4.355	ug/l #	59
30) 2-Butanone	7.263	43	84085	23.535	ug/l #	95
31) 2,2-Dichloropropane	7.245	77	12467	2.148	ug/l #	77
32) 1,1,1-Trichloroethane	7.945	97	26250	4.187	ug/l	97
33) Carbon Tetrachloride	8.128	117	21607	4.004	ug/l #	89
34) Benzene	8.386	78	67525	4.628	ug/l #	64
35) Methacrylonitrile	7.569	41	15225	4.377	ug/l	80
36) 1,2-Dichloroethane	8.463	62	25558	4.279	ug/l #	91
37) Trichloroethene	9.151	130	17273	4.908	ug/l	87
38) Methylcyclohexane	9.392	83	24374	4.187	ug/l	90
39) 1,2-Dichloropropane	9.422	63	17886	4.528	ug/l	91
40) Dibromomethane	9.516	93	12142	4.481	ug/l	95
41) Bromodichloromethane	9.698	83	23770	4.188	ug/l #	91
42) Vinyl Acetate	6.351	43	247946	21.645	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.340	43	25492	3.707	ug/l #	84
44) Isopropyl Acetate	8.498	43	47984	4.327	ug/l	99
45) 1,4-Dioxane	9.510	88	8861	96.063	ug/l	97
46) Methyl methacrylate	9.498	41	21891	4.393	ug/l	81
47) n-amyl Acetate	12.322	43	34962	4.053	ug/l	100
48) t-1,3-Dichloropropene	10.657	75	19679	3.120	ug/l	90
49) cis-1,3-Dichloropropene	10.128	75	22649	3.497	ug/l	95
50) 1,1,2-Trichloroethane	10.833	97	17673	4.617	ug/l	92
51) Ethyl methacrylate	10.698	69	26537	3.867	ug/l	94
52) 1,3-Dichloropropane	10.980	76	29730	4.412	ug/l	99
53) Dibromochloromethane	11.175	129	17151	4.130	ug/l	94
54) 1,2-Dibromoethane	11.280	107	17491	4.346	ug/l	97
55) 2-Chloroethyl vinyl ether	9.980	63	55800	20.030	ug/l	98
56) Bromoform	12.398	173	12255	4.193	ug/l #	96
58) 4-Methyl-2-Pentanone	10.269	43	158585	23.232	ug/l	96
59) 2-Hexanone	11.022	43	116730	22.485	ug/l	99
61) Tetrachloroethene	10.916	164	14043	4.948	ug/l #	79
62) Toluene	10.439	91	71676	4.631	ug/l	97
64) Chlorobenzene	11.704	112	43008	4.582	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.780	131	16688	4.585	ug/l	96
66) Ethyl Benzene	11.780	91	76726	4.373	ug/l	93
67) m/p-Xylenes	11.886	106	57677	8.928	ug/l	98
68) o-Xylene	12.216	106	28989	4.417	ug/l	95
69) Styrene	12.233	104	42374	4.031	ug/l	97
70) Isopropylbenzene	12.516	105	71158	4.159	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.763	83	27502	4.747	ug/l	96
72) 1,2,3-Trichloropropane	12.822	75	16913m	3.481	ug/l	
73) Bromobenzene	12.798	156	17327	4.860	ug/l	93
74) n-propylbenzene	12.857	91	76700	3.921	ug/l	99
75) 2-Chlorotoluene	12.945	91	51398	4.221	ug/l	97
76) 1,3,5-Trimethylbenzene	12.998	105	59552	4.230	ug/l	99
77) t-1,4-Dichloro-2-butene	12.563	75	5445	2.734	ug/l	91
78) 4-Chlorotoluene	13.039	91	47342	4.111	ug/l	93
79) tert-butylbenzene	13.257	119	52016	4.152	ug/l	98
80) 1,2,4-Trimethylbenzene	13.304	105	57485	3.490	ug/l #	81
81) sec-Butylbenzene	13.433	105	65584	3.861	ug/l	100
82) p-Isopropyltoluene	13.551	119	52214	3.822	ug/l	99
83) 1,3-Dichlorobenzene	13.545	146	28617	4.532	ug/l	99
84) 1,4-Dichlorobenzene	13.627	146	27328	4.445	ug/l	96
85) n-Butylbenzene	13.874	91	38699	3.393	ug/l	98
86) Hexachloroethane	14.145	117	10841	3.725	ug/l	97
87) 1,2-Dichlorobenzene	13.921	146	31305	4.969	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.533	75	6146	4.215	ug/l	98
89) 1,2,4-Trichlorobenzene	15.192	180	13303	4.180	ug/l	98
90) Hexachlorobutadiene	15.298	225	6158	4.454	ug/l	99
91) Naphthalene	15.433	128	55120	4.325	ug/l	99
92) 1,2,3-Trichlorobenzene	15.621	180	14246	4.375	ug/l	99

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

