

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080823\
 Data File : VN078808.D
 Acq On : 08 Aug 2023 19:28
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/09/2023
 Supervised By : Semsettin Yesilyurt 08/09/2023

Quant Time: Aug 09 04:41:48 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 09 04:37:34 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	30479	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.112	114	171362	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	144298	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	76796	32.805	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 109.367%			
60) 4-Bromofluorobenzene	12.853	95	54065	24.728	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 82.433%			
63) Toluene-d8	10.571	98	218426	30.234	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.767%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.136	85	12038	5.940	ug/l	85
3) Chloromethane	2.371	50	13322	5.508	ug/l	89
4) Vinyl Chloride	2.524	62	12268	3.966	ug/l #	82
5) Bromomethane	2.965	94	10886	4.690	ug/l	90
6) Chloroethane	3.130	64	9909m	4.791	ug/l	
7) Trichlorofluoromethane	3.500	101	17477	5.166	ug/l	93
8) Diethyl Ether	3.965	74	6246m	5.557	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.383	101	8879	4.849	ug/l #	31
10) 1,1-Dichloroethene	4.347	96	8862	5.110	ug/l	88
11) Methyl Iodide	4.600	142	11439m	4.702	ug/l	
12) Methyl Acetate	5.041	43	19819	6.526	ug/l	100
13) Acrolein	4.194	56	10859m	34.332	ug/l	
14) Acrylonitrile	5.741	53	24804m	28.563	ug/l	
15) Acetone	4.447	58	6688m	27.292	ug/l	
16) Carbon Disulfide	4.724	76	25614	5.183	ug/l	99
17) Allyl chloride	5.041	41	16743	6.888	ug/l	88
18) Methylene Chloride	5.300	84	11745m	5.570	ug/l	
19) trans-1,2-Dichloroethene	5.806	96	10143m	5.041	ug/l	
20) Diisopropyl ether	6.688	45	33309	5.913	ug/l #	87
21) 1,1-Dichloroethane	6.577	63	20202	5.589	ug/l	95
22) cis-1,2-Dichloroethene	7.488	96	10541	5.190	ug/l	85
23) tert-Butyl Alcohol	5.536	59	10670m	31.085	ug/l	
24) Methyl tert-Butyl Ether	5.806	73	28428	4.867	ug/l #	84
25) Chloroform	7.977	83	19328m	5.137	ug/l	
26) Cyclohexane	8.265	56	15980	6.043	ug/l #	45
29) 1,1-Dichloropropene	8.371	75	13448	5.131	ug/l	100
30) 2-Butanone	7.494	43	34670	32.096	ug/l #	90
31) 2,2-Dichloropropane	7.488	77	14249m	4.871	ug/l	
32) 1,1,1-Trichloroethane	8.171	97	17707	5.498	ug/l	93
33) Carbon Tetrachloride	8.365	117	14140	4.910	ug/l #	79
34) Benzene	8.612	78	44223	5.642	ug/l #	90
35) Methacrylonitrile	7.782	41	8120	6.720	ug/l	68
36) 1,2-Dichloroethane	8.677	62	15820	5.777	ug/l	97
37) Trichloroethene	9.359	130	11062	5.139	ug/l	95
38) Methylcyclohexane	9.606	83	12711	4.753	ug/l	91
39) 1,2-Dichloropropane	9.624	63	11298	5.322	ug/l #	85
40) Dibromomethane	9.712	93	7611	5.295	ug/l	99
41) Bromodichloromethane	9.894	83	15157	5.240	ug/l #	83
42) Vinyl Acetate	6.618	43	102791	29.643	ug/l	95

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	
43) Ethyl Acetate	7.577	43	14193	6.242	ug/l	#	87
44) Isopropyl Acetate	8.700	43	29716m	7.612	ug/l		
45) 1,4-Dioxane	9.700	88	3030m	87.002	ug/l		
46) Methyl methacrylate	9.688	41	9381	5.258	ug/l		81
47) n-amyl Acetate	12.500	43	15003	4.992	ug/l		90
48) t-1,3-Dichloropropene	10.841	75	14267	4.713	ug/l		89
49) cis-1,3-Dichloropropene	10.318	75	16211	4.939	ug/l	#	84
50) 1,1,2-Trichloroethane	11.023	97	10371	5.187	ug/l		88
51) Ethyl methacrylate	10.876	69	13163	4.783	ug/l	#	79
52) 1,3-Dichloropropane	11.171	76	17653	4.856	ug/l		96
53) Dibromochloromethane	11.370	129	10488	4.728	ug/l		92
54) 1,2-Dibromoethane	11.470	107	9898	4.964	ug/l		96
55) 2-Chloroethyl vinyl ether	10.165	63	21829	24.159	ug/l		96
56) Bromoform	12.582	173	5912	4.010	ug/l	#	90
58) 4-Methyl-2-Pentanone	10.453	43	69140	29.537	ug/l	#	92
59) 2-Hexanone	11.206	43	46961	27.141	ug/l		90
61) Tetrachloroethene	11.112	164	8901	4.721	ug/l	#	79
62) Toluene	10.635	91	42462	4.811	ug/l		91
64) Chlorobenzene	11.894	112	24756	4.830	ug/l		98
65) 1,1,1,2-Tetrachloroethane	11.970	131	9747	4.857	ug/l		96
66) Ethyl Benzene	11.970	91	41996	4.695	ug/l		98
67) m/p-Xylenes	12.076	106	28868	8.543	ug/l		92
68) o-Xylene	12.400	106	15278	4.415	ug/l		92
69) Styrene	12.423	104	20160	3.642	ug/l		88
70) Isopropylbenzene	12.700	105	36204	4.253	ug/l		95
71) 1,1,2,2-Tetrachloroethane	12.941	83	14170	5.062	ug/l		96
72) 1,2,3-Trichloropropane	12.994	75	12765m	5.600	ug/l		
73) Bromobenzene	12.982	156	9897	4.775	ug/l		90
74) n-propylbenzene	13.041	91	37042	3.892	ug/l		96
75) 2-Chlorotoluene	13.129	91	25879	3.956	ug/l		99
76) 1,3,5-Trimethylbenzene	13.176	105	27375	3.599	ug/l		99
77) t-1,4-Dichloro-2-butene	12.747	75	3283	4.035	ug/l		77
78) 4-Chlorotoluene	13.223	91	20802	3.336	ug/l		97
79) tert-butylbenzene	13.441	119	22046	3.382	ug/l		86
80) 1,2,4-Trimethylbenzene	13.488	105	24272	3.363	ug/l		94
81) sec-Butylbenzene	13.623	105	29472	3.494	ug/l		99
82) p-Isopropyltoluene	13.735	119	21263	3.126	ug/l		95
83) 1,3-Dichlorobenzene	13.741	146	11482	3.142	ug/l		96
84) 1,4-Dichlorobenzene	13.817	146	11041	3.221	ug/l		98
85) n-Butylbenzene	14.059	91	15740	3.323	ug/l		96
86) Hexachloroethane	14.335	117	5463	4.340	ug/l		99
87) 1,2-Dichlorobenzene	14.106	146	11606	3.372	ug/l		94
88) 1,2-Dibromo-3-Chloropr...	14.729	75	1763	3.798	ug/l	#	78
89) 1,2,4-Trichlorobenzene	15.400	180	2433	2.499	ug/l	#	59
90) Hexachlorobutadiene	15.511	225	2957	4.039	ug/l		82
91) Naphthalene	15.647	128	8068	2.737	ug/l	#	90
92) 1,2,3-Trichlorobenzene	15.858	180	3375m	3.041	ug/l		

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

