

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080823\
 Data File : VN078807.D
 Acq On : 08 Aug 2023 19:04
 Operator : JC\MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC010

Manual Integrations
 APPROVED

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

Quant Time: Aug 09 04:41:31 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	33389	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.112	114	178270	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	152121	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	79114	30.850	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.833%			
60) 4-Bromofluorobenzene	12.853	95	56436	24.485	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 81.633%			
63) Toluene-d8	10.571	98	226259	29.708	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.033%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.136	85	17996	8.106	ug/l	94
3) Chloromethane	2.371	50	25170	9.499	ug/l	90
4) Vinyl Chloride	2.524	62	24845	7.331	ug/l	97
5) Bromomethane	2.971	94	17557	6.905	ug/l	94
6) Chloroethane	3.136	64	18214	8.039	ug/l #	86
7) Trichlorofluoromethane	3.506	101	31990	8.631	ug/l	100
8) Diethyl Ether	3.977	74	11375	9.237	ug/l	76
9) 1,1,2-Trichlorotrifluo...	4.377	101	17713	8.831	ug/l	60
10) 1,1-Dichloroethene	4.353	96	16717m	8.800	ug/l	
11) Methyl Iodide	4.600	142	21341	8.008	ug/l	99
12) Methyl Acetate	5.048	43	38384	11.537	ug/l #	87
13) Acrolein	4.195	56	21158m	61.063	ug/l	
14) Acrylonitrile	5.730	53	48086	50.548	ug/l #	56
15) Acetone	4.436	58	12163m	45.309	ug/l	
16) Carbon Disulfide	4.718	76	48031m	8.872	ug/l	
17) Allyl chloride	5.030	41	28271	10.617	ug/l	82
18) Methylene Chloride	5.289	84	21181	9.169	ug/l	91
19) trans-1,2-Dichloroethene	5.800	96	20076	9.109	ug/l	92
20) Diisopropyl ether	6.689	45	65225	10.569	ug/l #	91
21) 1,1-Dichloroethane	6.583	63	37182	9.391	ug/l	95
22) cis-1,2-Dichloroethene	7.494	96	20587	9.252	ug/l #	22
23) tert-Butyl Alcohol	5.542	59	17930	47.683	ug/l #	100
24) Methyl tert-Butyl Ether	5.812	73	53769	8.402	ug/l #	89
25) Chloroform	7.977	83	37736	9.155	ug/l	95
26) Cyclohexane	8.265	56	26912	9.290	ug/l #	95
29) 1,1-Dichloropropene	8.377	75	25397	9.315	ug/l	88
30) 2-Butanone	7.494	43	66412	59.099	ug/l #	89
31) 2,2-Dichloropropane	7.494	77	26586	8.737	ug/l #	66
32) 1,1,1-Trichloroethane	8.177	97	30490	9.100	ug/l	95
33) Carbon Tetrachloride	8.365	117	25710	8.581	ug/l	96
34) Benzene	8.612	78	79467	9.746	ug/l #	86
35) Methacrylonitrile	7.789	41	15252	12.133	ug/l #	72
36) 1,2-Dichloroethane	8.683	62	27858	9.779	ug/l	98
37) Trichloroethene	9.359	130	19496	8.707	ug/l	96
38) Methylcyclohexane	9.606	83	23204	8.340	ug/l	91
39) 1,2-Dichloropropane	9.624	63	21582	9.773	ug/l #	76
40) Dibromomethane	9.712	93	14835	9.920	ug/l	94
41) Bromodichloromethane	9.894	83	28298	9.404	ug/l	86
42) Vinyl Acetate	6.618	43	195172	54.103	ug/l	95

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	27805	11.754	ug/l #	84
44) Isopropyl Acetate	8.694	43	45235	11.138	ug/l	91
45) 1,4-Dioxane	9.700	88	6073	167.620	ug/l #	59
46) Methyl methacrylate	9.688	41	21437	11.551	ug/l	88
47) n-amyl Acetate	12.500	43	29787	9.527	ug/l	93
48) t-1,3-Dichloropropene	10.841	75	26806	8.512	ug/l	96
49) cis-1,3-Dichloropropene	10.312	75	31101	9.108	ug/l #	87
50) 1,1,2-Trichloroethane	11.018	97	19110	9.187	ug/l	91
51) Ethyl methacrylate	10.882	69	24378	8.515	ug/l	78
52) 1,3-Dichloropropane	11.165	76	32171	8.506	ug/l	94
53) Dibromochloromethane	11.359	129	19443	8.426	ug/l	98
54) 1,2-Dibromoethane	11.476	107	18484	8.911	ug/l	97
55) 2-Chloroethyl vinyl ether	10.165	63	50774	54.017	ug/l	97
56) Bromoform	12.582	173	11723	7.644	ug/l	95
58) 4-Methyl-2-Pentanone	10.453	43	136793	55.433	ug/l #	90
59) 2-Hexanone	11.200	43	90050	49.369	ug/l	91
61) Tetrachloroethene	11.112	164	16970	8.537	ug/l #	80
62) Toluene	10.635	91	82407	8.857	ug/l	95
64) Chlorobenzene	11.894	112	48821	9.035	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.965	131	19269	9.107	ug/l	94
66) Ethyl Benzene	11.965	91	79966	8.479	ug/l	93
67) m/p-Xylenes	12.076	106	60724	17.045	ug/l	94
68) o-Xylene	12.406	106	29217	8.008	ug/l	100
69) Styrene	12.418	104	43071	7.380	ug/l	98
70) Isopropylbenzene	12.700	105	71154	7.930	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	25232	8.549	ug/l	95
72) 1,2,3-Trichloropropane	13.000	75	20160m	8.390	ug/l	
73) Bromobenzene	12.982	156	16340	7.478	ug/l	94
74) n-propylbenzene	13.041	91	77343	7.709	ug/l	99
75) 2-Chlorotoluene	13.129	91	48321	7.007	ug/l	100
76) 1,3,5-Trimethylbenzene	13.176	105	55895	6.970	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	5904	6.883	ug/l	73
78) 4-Chlorotoluene	13.223	91	44192	6.723	ug/l	97
79) tert-butylbenzene	13.441	119	46131	6.713	ug/l	88
80) 1,2,4-Trimethylbenzene	13.488	105	52603	6.913	ug/l	98
81) sec-Butylbenzene	13.618	105	60726	6.829	ug/l	99
82) p-Isopropyltoluene	13.735	119	47809	6.667	ug/l	98
83) 1,3-Dichlorobenzene	13.741	146	24405	6.336	ug/l	96
84) 1,4-Dichlorobenzene	13.823	146	22575	6.247	ug/l	99
85) n-Butylbenzene	14.059	91	32215	6.451	ug/l	98
86) Hexachloroethane	14.335	117	10117	7.623	ug/l	96
87) 1,2-Dichlorobenzene	14.112	146	25016	6.894	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	14.723	75	3441	7.031	ug/l	95
89) 1,2,4-Trichlorobenzene	15.400	180	5551	5.409	ug/l #	93
90) Hexachlorobutadiene	15.506	225	5624	7.286	ug/l	89
91) Naphthalene	15.647	128	17286	5.562	ug/l #	93
92) 1,2,3-Trichlorobenzene	15.847	180	7523	6.429	ug/l	71

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

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