

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042823\
 Data File : VN077505.D
 Acq On : 28 Apr 2023 17:05
 Operator : JC\MD
 Sample : VN0428WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0428WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/29/2023
 Supervised By : Semsettin Yesilyurt 04/29/2023

Quant Time: Apr 28 19:04:36 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 28 16:20:59 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.819	128	69669	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	512788	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	548058	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	184958	29.779	ug/l	-0.01
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.267%		
60) 4-Bromofluorobenzene	12.854	95	287466	29.939	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	99.800%		
63) Toluene-d8	10.571	98	580096	30.038	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.133%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	174606	20.131	ug/l	100
3) Chloromethane	2.372	50	123634	19.295	ug/l	94
4) Vinyl Chloride	2.525	62	171346	19.227	ug/l	93
5) Bromomethane	2.966	94	137190	18.237	ug/l	100
6) Chloroethane	3.137	64	112489	17.528	ug/l	97
7) Trichlorofluoromethane	3.507	101	291563	22.185	ug/l	99
8) Diethyl Ether	3.966	74	94567	20.563	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.384	101	147707	19.886	ug/l	69
10) 1,1-Dichloroethene	4.354	96	141531	19.862	ug/l	95
11) Methyl Iodide	4.601	142	171044	19.566	ug/l	99
12) Methyl Acetate	5.037	43	202478	19.702	ug/l	95
13) Acrolein	4.184	56	122740	99.610	ug/l	99
14) Acrylonitrile	5.725	53	310346	98.431	ug/l	96
15) Acetone	4.437	58	97068	96.425	ug/l	93
16) Carbon Disulfide	4.719	76	341165	19.092	ug/l	97
17) Allyl chloride	5.037	41	151247	19.357	ug/l	99
18) Methylene Chloride	5.284	84	162653	19.349	ug/l	97
19) trans-1,2-Dichloroethene	5.789	96	152393	19.355	ug/l	94
20) Diisopropyl ether	6.678	45	356611	19.606	ug/l	95
21) 1,1-Dichloroethane	6.578	63	258843	19.473	ug/l	96
22) cis-1,2-Dichloroethene	7.489	96	188429	19.982	ug/l	99
23) tert-Butyl Alcohol	5.531	59	129860	95.470	ug/l #	100
24) Methyl tert-Butyl Ether	5.807	73	493820	19.979	ug/l	98
25) Chloroform	7.972	83	303450	19.862	ug/l	96
26) Cyclohexane	8.260	56	208609	19.239	ug/l #	95
29) 1,1-Dichloropropene	8.377	75	213297	19.733	ug/l	99
30) 2-Butanone	7.489	43	376722	95.062	ug/l	99
31) 2,2-Dichloropropane	7.501	77	251966	19.923	ug/l #	81
32) 1,1,1-Trichloroethane	8.172	97	285487	20.463	ug/l	98
33) Carbon Tetrachloride	8.366	117	238039	19.657	ug/l	90
34) Benzene	8.613	78	654475	19.689	ug/l	98
35) Methacrylonitrile	7.783	41	74828	18.493	ug/l	86
36) 1,2-Dichloroethane	8.672	62	227105	20.005	ug/l	100
37) Trichloroethene	9.354	130	165884	19.744	ug/l	98
38) Methylcyclohexane	9.601	83	285032	20.072	ug/l	99
39) 1,2-Dichloropropane	9.624	63	154568	20.076	ug/l	98
40) Dibromomethane	9.713	93	117738	19.391	ug/l	98
41) Bromodichloromethane	9.889	83	239358	19.960	ug/l	98
42) Vinyl Acetate	6.613	43	1309250m	104.901	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.572	43	160907	20.977	ug/l #	79
44) Isopropyl Acetate	8.689	43	270646	19.918	ug/l	96
45) 1,4-Dioxane	9.701	88	63550	385.656	ug/l #	94
46) Methyl methacrylate	9.683	41	118044	19.089	ug/l	96
47) n-amyl Acetate	12.495	43	215134	19.751	ug/l	99
48) t-1,3-Dichloropropene	10.836	75	245470	20.106	ug/l	97
49) cis-1,3-Dichloropropene	10.313	75	263154	19.967	ug/l	96
50) 1,1,2-Trichloroethane	11.018	97	174607	20.258	ug/l	97
51) Ethyl methacrylate	10.877	69	242202	20.297	ug/l	96
52) 1,3-Dichloropropane	11.166	76	281287	20.111	ug/l	99
53) Dibromochloromethane	11.360	129	177679	20.023	ug/l	100
54) 1,2-Dibromoethane	11.471	107	173511	19.671	ug/l	98
55) 2-Chloroethyl vinyl ether	10.160	63	382495	97.682	ug/l	98
56) Bromoform	12.583	173	106121	19.173	ug/l #	98
58) 4-Methyl-2-Pentanone	10.448	43	801344	101.528	ug/l	100
59) 2-Hexanone	11.195	43	592253	101.848	ug/l	100
61) Tetrachloroethene	11.107	164	128359	20.051	ug/l	99
62) Toluene	10.636	91	760002	20.619	ug/l	99
64) Chlorobenzene	11.895	112	453975	20.161	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.960	131	165583	20.577	ug/l	98
66) Ethyl Benzene	11.965	91	827007	20.548	ug/l	100
67) m/p-Xylenes	12.071	106	639625	40.812	ug/l	98
68) o-Xylene	12.401	106	321498	20.652	ug/l	99
69) Styrene	12.413	104	494021	20.408	ug/l	98
70) Isopropylbenzene	12.701	105	833606	21.096	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.942	83	245022	20.356	ug/l	98
72) 1,2,3-Trichloropropane	12.995	75	205345m	20.055	ug/l	
73) Bromobenzene	12.983	156	168513	19.831	ug/l	98
74) n-propylbenzene	13.036	91	908741	20.666	ug/l	99
75) 2-Chlorotoluene	13.130	91	566003	20.869	ug/l	100
76) 1,3,5-Trimethylbenzene	13.177	105	627103	20.588	ug/l	97
77) t-1,4-Dichloro-2-butene	12.736	75	69510	20.554	ug/l	85
78) 4-Chlorotoluene	13.224	91	522231	20.339	ug/l	99
79) tert-butylbenzene	13.442	119	579027	20.550	ug/l	98
80) 1,2,4-Trimethylbenzene	13.489	105	583905	20.843	ug/l	98
81) sec-Butylbenzene	13.618	105	808039	20.570	ug/l	100
82) p-Isopropyltoluene	13.730	119	626983	20.369	ug/l	98
83) 1,3-Dichlorobenzene	13.736	146	304812	20.505	ug/l	99
84) 1,4-Dichlorobenzene	13.818	146	293049	19.951	ug/l	99
85) n-Butylbenzene	14.059	91	480487	20.199	ug/l	100
86) Hexachloroethane	14.336	117	127191	20.397	ug/l	96
87) 1,2-Dichlorobenzene	14.112	146	303889	20.093	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.724	75	44432	19.970	ug/l	98
89) 1,2,4-Trichlorobenzene	15.395	180	72060	18.153	ug/l	97
90) Hexachlorobutadiene	15.506	225	61423	19.026	ug/l	94
91) Naphthalene	15.642	128	279055	19.257	ug/l	99
92) 1,2,3-Trichlorobenzene	15.842	180	69423	18.693	ug/l	95

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

