

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032723\
 Data File : VN077199.D
 Acq On : 27 Mar 2023 13:03
 Operator : JC\MD
 Sample : VN0327WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0327WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/28/2023
 Supervised By : Semsettin Yesilyurt 03/28/2023

Quant Time: Mar 28 06:42:01 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N032423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 24 05:55:38 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.819	128	39519	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.101	114	271764	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	308506	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.584	65	122252	30.461	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.533%			
60) 4-Bromofluorobenzene	12.848	95	169612	30.604	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.000%			
63) Toluene-d8	10.566	98	331153	30.070	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.233%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.137	85	69924	26.872	ug/l	94
3) Chloromethane	2.378	50	87207	21.059	ug/l	96
4) Vinyl Chloride	2.531	62	103114	17.661	ug/l	98
5) Bromomethane	2.966	94	74400	18.174	ug/l	91
6) Chloroethane	3.137	64	92610	19.027	ug/l	97
7) Trichlorofluoromethane	3.507	101	212540	25.288	ug/l	99
8) Diethyl Ether	3.966	74	72666	24.641	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.378	101	89566	20.380	ug/l	98
10) 1,1-Dichloroethene	4.354	96	82472	20.056	ug/l	96
11) Methyl Iodide	4.601	142	94823	21.652	ug/l	92
12) Methyl Acetate	5.031	43	174564	19.686	ug/l	95
13) Acrolein	4.190	56	131224	109.201	ug/l	97
14) Acrylonitrile	5.731	53	265904	98.856	ug/l	99
15) Acetone	4.437	58	80136	113.940	ug/l	93
16) Carbon Disulfide	4.725	76	218773	18.838	ug/l	95
17) Allyl chloride	5.037	41	146875	20.308	ug/l	96
18) Methylene Chloride	5.290	84	100673	19.920	ug/l	93
19) trans-1,2-Dichloroethene	5.796	96	87502	19.862	ug/l	99
20) Diisopropyl ether	6.678	45	333675	20.366	ug/l	91
21) 1,1-Dichloroethane	6.578	63	182695	19.807	ug/l	96
22) cis-1,2-Dichloroethene	7.490	96	104380	20.067	ug/l	97
23) tert-Butyl Alcohol	5.531	59	85035	93.138	ug/l #	100
24) Methyl tert-Butyl Ether	5.813	73	294931	20.201	ug/l	99
25) Chloroform	7.972	83	183675	20.352	ug/l	95
26) Cyclohexane	8.260	56	147850	19.004	ug/l #	95
29) 1,1-Dichloropropene	8.378	75	128978	19.564	ug/l	98
30) 2-Butanone	7.490	43	376962	99.115	ug/l	98
31) 2,2-Dichloropropane	7.501	77	143121	23.175	ug/l #	66
32) 1,1,1-Trichloroethane	8.178	97	153744	19.342	ug/l	99
33) Carbon Tetrachloride	8.366	117	131221	19.651	ug/l	100
34) Benzene	8.613	78	397760	19.683	ug/l	96
35) Methacrylonitrile	7.784	41	82393	19.735	ug/l	94
36) 1,2-Dichloroethane	8.678	62	150514	20.203	ug/l	98
37) Trichloroethene	9.360	130	90088	19.719	ug/l	100
38) Methylcyclohexane	9.607	83	151246	19.272	ug/l	96
39) 1,2-Dichloropropane	9.625	63	106682	19.719	ug/l	100
40) Dibromomethane	9.713	93	72874	21.065	ug/l	99
41) Bromodichloromethane	9.889	83	143361	20.350	ug/l	96
42) Vinyl Acetate	6.613	43	1126830	98.846	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	150723	19.837	ug/l	99
44) Isopropyl Acetate	8.695	43	234887	19.157	ug/l	99
45) 1,4-Dioxane	9.701	88	40986	411.091	ug/l	94
46) Methyl methacrylate	9.684	41	113776	20.125	ug/l	99
47) n-amyl Acetate	12.495	43	189403	18.361	ug/l	96
48) t-1,3-Dichloropropene	10.836	75	142618	19.931	ug/l	95
49) cis-1,3-Dichloropropene	10.313	75	162007	20.681	ug/l	96
50) 1,1,2-Trichloroethane	11.019	97	97878	20.155	ug/l	98
51) Ethyl methacrylate	10.878	69	143767	19.174	ug/l	98
52) 1,3-Dichloropropane	11.166	76	175054	20.307	ug/l	99
53) Dibromochloromethane	11.360	129	103210	20.527	ug/l	98
54) 1,2-Dibromoethane	11.472	107	96016	20.092	ug/l	100
55) 2-Chloroethyl vinyl ether	10.166	63	309653	98.774	ug/l	99
56) Bromoform	12.577	173	70825	20.073	ug/l	99
58) 4-Methyl-2-Pentanone	10.448	43	757355	95.118	ug/l	98
59) 2-Hexanone	11.201	43	543880	93.682	ug/l	98
61) Tetrachloroethene	11.107	164	78809	20.354	ug/l	95
62) Toluene	10.631	91	418194	19.287	ug/l	100
64) Chlorobenzene	11.895	112	254652	19.851	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.960	131	94565	20.073	ug/l	96
66) Ethyl Benzene	11.966	91	454095	19.491	ug/l	99
67) m/p-Xylenes	12.077	106	347036	38.707	ug/l	97
68) o-Xylene	12.401	106	169160	19.270	ug/l	99
69) Styrene	12.413	104	270003	18.941	ug/l	98
70) Isopropylbenzene	12.695	105	444554	19.529	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.942	83	145392	19.513	ug/l	100
72) 1,2,3-Trichloropropane	12.995	75	117974m	17.888	ug/l	
73) Bromobenzene	12.983	156	100110	19.671	ug/l	95
74) n-propylbenzene	13.036	91	509258	19.324	ug/l	100
75) 2-Chlorotoluene	13.130	91	306982	19.320	ug/l	99
76) 1,3,5-Trimethylbenzene	13.177	105	372635	19.721	ug/l	97
77) t-1,4-Dichloro-2-butene	12.742	75	41584	19.779	ug/l	93
78) 4-Chlorotoluene	13.224	91	294375	19.259	ug/l	97
79) tert-butylbenzene	13.442	119	315638	19.554	ug/l	97
80) 1,2,4-Trimethylbenzene	13.483	105	359859	19.191	ug/l	100
81) sec-Butylbenzene	13.619	105	444397	19.067	ug/l	100
82) p-Isopropyltoluene	13.730	119	360819	19.312	ug/l	97
83) 1,3-Dichlorobenzene	13.736	146	184467	19.576	ug/l	99
84) 1,4-Dichlorobenzene	13.813	146	182632	19.895	ug/l	98
85) n-Butylbenzene	14.060	91	299473	18.963	ug/l	98
86) Hexachloroethane	14.336	117	68509	19.228	ug/l	88
87) 1,2-Dichlorobenzene	14.107	146	184781	19.609	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.724	75	26897	18.813	ug/l	96
89) 1,2,4-Trichlorobenzene	15.395	180	72984	17.362	ug/l	98
90) Hexachlorobutadiene	15.507	225	47764	20.141	ug/l	97
91) Naphthalene	15.642	128	231327	16.769	ug/l	99
92) 1,2,3-Trichlorobenzene	15.848	180	71234	17.065	ug/l	97

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

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