

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080923\
 Data File : VN078814.D
 Acq On : 09 Aug 2023 12:30
 Operator : JC\MD
 Sample : VN0809WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0809WBSD01

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone
 08/10/2023

Supervised By :Mahesh
 Dadoda
 08/10/2023

Quant Time: Aug 10 05:27:18 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 09 05:05:47 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.830	128	33896	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	187586	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	167495	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	83083	30.445	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.500%			
60) 4-Bromofluorobenzene	12.853	95	70866	30.142	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.467%			
63) Toluene-d8	10.571	98	246028	29.975	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.933%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.136	85	45724	19.570	ug/l	92
3) Chloromethane	2.371	50	56936	20.464	ug/l	96
4) Vinyl Chloride	2.524	62	55269	20.876	ug/l	97
5) Bromomethane	2.965	94	35434	18.399	ug/l	82
6) Chloroethane	3.130	64	35301	18.771	ug/l	100
7) Trichlorofluoromethane	3.506	101	71676	19.726	ug/l	97
8) Diethyl Ether	3.971	74	27493	21.278	ug/l	83
9) 1,1,2-Trichlorotrifluo...	4.383	101	40834m	20.948	ug/l	
10) 1,1-Dichloroethene	4.359	96	38498	20.394	ug/l	91
11) Methyl Iodide	4.601	142	48714	19.345	ug/l	91
12) Methyl Acetate	5.036	43	73874	18.005	ug/l	91
13) Acrolein	4.195	56	39607	91.140	ug/l	99
14) Acrylonitrile	5.730	53	103285	95.536	ug/l	98
15) Acetone	4.442	58	30755	110.408	ug/l	81
16) Carbon Disulfide	4.718	76	111434	20.392	ug/l	97
17) Allyl chloride	5.036	41	64569	19.568	ug/l	94
18) Methylene Chloride	5.277	84	44301m	18.806	ug/l	
19) trans-1,2-Dichloroethene	5.795	96	43125	19.897	ug/l	94
20) Diisopropyl ether	6.677	45	146712	19.800	ug/l #	91
21) 1,1-Dichloroethane	6.577	63	85922	20.339	ug/l	96
22) cis-1,2-Dichloroethene	7.500	96	48478	20.179	ug/l	95
23) tert-Butyl Alcohol	5.542	59	35787m	89.082	ug/l	
24) Methyl tert-Butyl Ether	5.812	73	126822	20.072	ug/l #	86
25) Chloroform	7.971	83	83082	19.810	ug/l	99
26) Cyclohexane	8.265	56	66236	19.906	ug/l #	90
29) 1,1-Dichloropropene	8.377	75	60376	19.811	ug/l	98
30) 2-Butanone	7.489	43	143077	95.784	ug/l	92
31) 2,2-Dichloropropane	7.494	77	66417m	21.135	ug/l	
32) 1,1,1-Trichloroethane	8.177	97	72593	20.227	ug/l	96
33) Carbon Tetrachloride	8.365	117	63452	20.484	ug/l	97
34) Benzene	8.618	78	184534	19.900	ug/l	96
35) Methacrylonitrile	7.783	41	32288	18.408	ug/l	84
36) 1,2-Dichloroethane	8.677	62	65977	20.353	ug/l #	87
37) Trichloroethene	9.359	130	47111	21.113	ug/l	96
38) Methylcyclohexane	9.612	83	58474	20.266	ug/l	91
39) 1,2-Dichloropropane	9.630	63	49574	20.206	ug/l	93
40) Dibromomethane	9.718	93	32838	20.101	ug/l	97
41) Bromodichloromethane	9.894	83	64126	19.480	ug/l	98
42) Vinyl Acetate	6.612	43	465700	99.074	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	60426	19.487	ug/l	100
44) Isopropyl Acetate	8.694	43	102566	18.420	ug/l	92
45) 1,4-Dioxane	9.706	88	14171	379.342	ug/l #	85
46) Methyl methacrylate	9.683	41	46671	19.794	ug/l	79
47) n-amyl Acetate	12.500	43	73487	18.878	ug/l	91
48) t-1,3-Dichloropropene	10.841	75	66550	20.021	ug/l	93
49) cis-1,3-Dichloropropene	10.318	75	75921	20.538	ug/l #	87
50) 1,1,2-Trichloroethane	11.018	97	43519	19.604	ug/l	95
51) Ethyl methacrylate	10.882	69	64051	20.585	ug/l	74
52) 1,3-Dichloropropane	11.171	76	75808	19.888	ug/l	100
53) Dibromochloromethane	11.365	129	46884	20.236	ug/l	97
54) 1,2-Dibromoethane	11.477	107	44534	20.534	ug/l	98
55) 2-Chloroethyl vinyl ether	10.165	63	119339	103.997	ug/l	98
56) Bromoform	12.582	173	29154	20.101	ug/l	96
58) 4-Methyl-2-Pentanone	10.453	43	307709m	95.578	ug/l	
59) 2-Hexanone	11.200	43	209102	93.465	ug/l	92
61) Tetrachloroethene	11.106	164	39440	20.582	ug/l	96
62) Toluene	10.635	91	199647	20.246	ug/l	99
64) Chlorobenzene	11.894	112	112970	19.569	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.971	131	44808	20.146	ug/l	98
66) Ethyl Benzene	11.971	91	205346	20.051	ug/l	100
67) m/p-Xylenes	12.077	106	153571	40.896	ug/l	99
68) o-Xylene	12.406	106	75000	20.066	ug/l	98
69) Styrene	12.418	104	117932	20.649	ug/l	99
70) Isopropylbenzene	12.700	105	180354	19.535	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.947	83	60066	19.199	ug/l	95
72) 1,2,3-Trichloropropane	12.994	75	54516m	19.963	ug/l	
73) Bromobenzene	12.988	156	41242	18.690	ug/l	92
74) n-propylbenzene	13.041	91	204368	20.004	ug/l	99
75) 2-Chlorotoluene	13.129	91	124784	19.607	ug/l	98
76) 1,3,5-Trimethylbenzene	13.176	105	144822	19.750	ug/l	98
77) t-1,4-Dichloro-2-butene	12.735	75	16790	19.587	ug/l	88
78) 4-Chlorotoluene	13.229	91	118592	20.086	ug/l	99
79) tert-butylbenzene	13.441	119	121363	20.172	ug/l	98
80) 1,2,4-Trimethylbenzene	13.488	105	141144	20.398	ug/l	99
81) sec-Butylbenzene	13.623	105	162066	20.121	ug/l	98
82) p-Isopropyltoluene	13.735	119	125563	19.902	ug/l	98
83) 1,3-Dichlorobenzene	13.741	146	67395	19.763	ug/l	99
84) 1,4-Dichlorobenzene	13.818	146	66234	20.338	ug/l	99
85) n-Butylbenzene	14.065	91	90063	19.399	ug/l	99
86) Hexachloroethane	14.341	117	23693	17.828	ug/l	97
87) 1,2-Dichlorobenzene	14.106	146	67014	19.974	ug/l	93
88) 1,2-Dibromo-3-Chloropr...	14.723	75	8249	18.563	ug/l	96
89) 1,2,4-Trichlorobenzene	15.394	180	14956	16.106	ug/l	87
90) Hexachlorobutadiene	15.506	225	13129	19.204	ug/l	98
91) Naphthalene	15.647	128	41739	14.374	ug/l	95
92) 1,2,3-Trichlorobenzene	15.847	180	17102	15.702	ug/l	98

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

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