

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020924\
 Data File : VN080985.D
 Acq On : 09 Feb 2024 13:03
 Operator : JC\MD
 Sample : VN0209WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0209WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/12/2024
 Supervised By : Mahesh Dadoda 02/12/2024

Quant Time: Feb 10 02:01:25 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N020924W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Feb 10 01:52:21 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	79760	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	476312	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	434332	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	188579	31.465	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 104.900%			
60) 4-Bromofluorobenzene	12.853	95	202367	30.477	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.600%			
63) Toluene-d8	10.570	98	586556	30.093	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.300%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	128545	23.703	ug/l	91
3) Chloromethane	2.359	50	130418	23.930	ug/l	95
4) Vinyl Chloride	2.512	62	155357	23.909	ug/l	89
5) Bromomethane	2.959	94	104391m	23.918	ug/l	
6) Chloroethane	3.118	64	101657	24.000	ug/l	94
7) Trichlorofluoromethane	3.494	101	194291	22.707	ug/l	97
8) Diethyl Ether	3.959	74	66216	22.017	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.377	101	105312	22.677	ug/l	86
10) 1,1-Dichloroethene	4.341	96	104197	22.893	ug/l	97
11) Methyl Iodide	4.594	142	101404	20.802	ug/l	91
12) Methyl Acetate	5.024	43	94879	23.004	ug/l #	85
13) Acrolein	4.177	56	84968	94.464	ug/l	98
14) Acrylonitrile	5.724	53	234352	114.422	ug/l #	90
15) Acetone	4.424	58	55886	118.612	ug/l	95
16) Carbon Disulfide	4.712	76	270818m	21.680	ug/l	
17) Allyl chloride	5.024	41	132208	23.128	ug/l	91
18) Methylene Chloride	5.277	84	114437	22.001	ug/l	98
19) trans-1,2-Dichloroethene	5.783	96	114400	22.140	ug/l	86
20) Diisopropyl ether	6.677	45	323243	23.527	ug/l	96
21) 1,1-Dichloroethane	6.571	63	198509	22.545	ug/l	99
22) cis-1,2-Dichloroethene	7.488	96	131803	21.953	ug/l	98
23) tert-Butyl Alcohol	5.518	59	86105	115.404	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	345982	22.929	ug/l	95
25) Chloroform	7.965	83	224697	23.002	ug/l	99
26) Cyclohexane	8.259	56	157035	23.685	ug/l #	90
29) 1,1-Dichloropropene	8.371	75	162286	22.873	ug/l	99
30) 2-Butanone	7.482	43	300643	115.493	ug/l	99
31) 2,2-Dichloropropane	7.488	77	187397	23.198	ug/l	100
32) 1,1,1-Trichloroethane	8.171	97	205068	22.976	ug/l	99
33) Carbon Tetrachloride	8.365	117	169159	22.495	ug/l	96
34) Benzene	8.606	78	485506	22.393	ug/l	97
35) Methacrylonitrile	7.782	41	68840	22.499	ug/l	95
36) 1,2-Dichloroethane	8.671	62	168804	23.199	ug/l	99
37) Trichloroethene	9.353	130	129185	22.411	ug/l	97
38) Methylcyclohexane	9.600	83	164232	23.195	ug/l	94
39) 1,2-Dichloropropane	9.623	63	117866	22.919	ug/l	98
40) Dibromomethane	9.706	93	85158	21.765	ug/l	94
41) Bromodichloromethane	9.888	83	171796	22.435	ug/l	94
42) Vinyl Acetate	6.606	43	1262243	113.361	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	116221	21.435	ug/l	98
44) Isopropyl Acetate	8.688	43	220594	22.644	ug/l	95
45) 1,4-Dioxane	9.694	88	42648	461.589	ug/l	92
46) Methyl methacrylate	9.682	41	100530	22.553	ug/l	90
47) n-amyl Acetate	12.494	43	188345	22.168	ug/l	93
48) t-1,3-Dichloropropene	10.841	75	179290	22.340	ug/l	95
49) cis-1,3-Dichloropropene	10.318	75	192673	22.156	ug/l	96
50) 1,1,2-Trichloroethane	11.023	97	121032	22.356	ug/l	96
51) Ethyl methacrylate	10.876	69	168811	22.310	ug/l	89
52) 1,3-Dichloropropane	11.165	76	204875	22.917	ug/l	98
53) Dibromochloromethane	11.365	129	125548	21.277	ug/l	99
54) 1,2-Dibromoethane	11.470	107	124604	22.247	ug/l	100
55) 2-Chloroethyl vinyl ether	10.165	63	322257	83.109	ug/l	98
56) Bromoform	12.582	173	80075	21.308	ug/l #	96
58) 4-Methyl-2-Pentanone	10.447	43	653861	115.957	ug/l	94
59) 2-Hexanone	11.200	43	488387	117.758	ug/l	94
61) Tetrachloroethene	11.106	164	114015	22.981	ug/l	85
62) Toluene	10.635	91	542888	22.818	ug/l	99
64) Chlorobenzene	11.894	112	321939	22.093	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.964	131	117496	21.737	ug/l	97
66) Ethyl Benzene	11.964	91	567347	22.679	ug/l	99
67) m/p-Xylenes	12.076	106	441920	44.983	ug/l	93
68) o-Xylene	12.400	106	213564	22.183	ug/l	96
69) Styrene	12.412	104	353776	22.320	ug/l	97
70) Isopropylbenzene	12.700	105	526218	22.428	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	159756	22.081	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	123404m	21.789	ug/l	
73) Bromobenzene	12.982	156	129093	22.125	ug/l	92
74) n-propylbenzene	13.041	91	606220	22.735	ug/l	98
75) 2-Chlorotoluene	13.129	91	376599	22.751	ug/l	94
76) 1,3,5-Trimethylbenzene	13.176	105	433178	22.564	ug/l	99
77) t-1,4-Dichloro-2-butene	12.741	75	47444	22.137	ug/l	96
78) 4-Chlorotoluene	13.223	91	382789	23.088	ug/l	97
79) tert-butylbenzene	13.441	119	354910	22.271	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	426373	22.291	ug/l	96
81) sec-Butylbenzene	13.617	105	500123	22.410	ug/l	99
82) p-Isopropyltoluene	13.735	119	422107	22.530	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	237020	22.586	ug/l	97
84) 1,4-Dichlorobenzene	13.817	146	233554	22.172	ug/l	98
85) n-Butylbenzene	14.058	91	341260	22.076	ug/l	98
86) Hexachloroethane	14.341	117	63992	21.654	ug/l	86
87) 1,2-Dichlorobenzene	14.106	146	228136	22.329	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	29640	22.698	ug/l	95
89) 1,2,4-Trichlorobenzene	15.847	180	107955	21.598	ug/l	98
90) Hexachlorobutadiene	15.505	225	46162	21.051	ug/l	97
91) Naphthalene	15.647	128	389968	21.973	ug/l	99
92) 1,2,3-Trichlorobenzene	15.847	180	107955	21.598	ug/l	98

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

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