

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN020924\
 Data File : VN080986.D
 Acq On : 09 Feb 2024 13:38
 Operator : JC\MD
 Sample : VN0209WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0209WBSD01

Manual Integrations
 APPROVED

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

Quant Time: Feb 10 02:02:14 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	7.812	128	74993	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	425866	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	388057	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	178844	31.738	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 105.800%			
60) 4-Bromofluorobenzene	12.853	95	181470	30.589	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.967%			
63) Toluene-d8	10.571	98	520082	29.864	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.533%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	98333	19.284	ug/l	100
3) Chloromethane	2.359	50	101769	19.860	ug/l	96
4) Vinyl Chloride	2.512	62	116169	19.014	ug/l	99
5) Bromomethane	2.959	94	80665	19.657	ug/l	97
6) Chloroethane	3.124	64	78347	19.672	ug/l	95
7) Trichlorofluoromethane	3.495	101	148270	18.430	ug/l	98
8) Diethyl Ether	3.959	74	52983	18.737	ug/l	92
9) 1,1,2-Trichlorotrifluo...	4.365	101	81044	18.561	ug/l	96
10) 1,1-Dichloroethene	4.336	96	75813	17.715	ug/l	98
11) Methyl Iodide	4.583	142	82270	17.950	ug/l	87
12) Methyl Acetate	5.018	43	77945m	20.099	ug/l	
13) Acrolein	4.177	56	81896	96.837	ug/l	98
14) Acrylonitrile	5.718	53	200123	103.921	ug/l	100
15) Acetone	4.430	58	47050	106.206	ug/l	98
16) Carbon Disulfide	4.706	76	207442	17.662	ug/l #	92
17) Allyl chloride	5.024	41	101822	18.945	ug/l	90
18) Methylene Chloride	5.277	84	92938	19.003	ug/l	96
19) trans-1,2-Dichloroethene	5.789	96	91146	18.761	ug/l	88
20) Diisopropyl ether	6.671	45	258826	20.036	ug/l	94
21) 1,1-Dichloroethane	6.571	63	159071	19.214	ug/l	97
22) cis-1,2-Dichloroethene	7.488	96	110854	19.637	ug/l	91
23) tert-Butyl Alcohol	5.518	59	79918	113.920	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	287817	20.287	ug/l	96
25) Chloroform	7.971	83	181817	19.796	ug/l	100
26) Cyclohexane	8.259	56	117655	18.874	ug/l #	85
29) 1,1-Dichloropropene	8.371	75	123641	19.491	ug/l	98
30) 2-Butanone	7.483	43	253302	108.833	ug/l	100
31) 2,2-Dichloropropane	7.488	77	140442	19.445	ug/l	98
32) 1,1,1-Trichloroethane	8.171	97	156699	19.636	ug/l	98
33) Carbon Tetrachloride	8.365	117	126119	18.758	ug/l	96
34) Benzene	8.606	78	384985	19.860	ug/l	97
35) Methacrylonitrile	7.783	41	57211	20.913	ug/l	91
36) 1,2-Dichloroethane	8.671	62	139557	21.451	ug/l	99
37) Trichloroethene	9.353	130	101780	19.748	ug/l	97
38) Methylcyclohexane	9.600	83	121873	19.251	ug/l	96
39) 1,2-Dichloropropane	9.624	63	92953	20.216	ug/l	95
40) Dibromomethane	9.712	93	71827	20.532	ug/l	97
41) Bromodichloromethane	9.888	83	138253	20.193	ug/l	98
42) Vinyl Acetate	6.606	43	1052247	105.696	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	110182	22.729	ug/l	100
44) Isopropyl Acetate	8.694	43	184345	21.164	ug/l	95
45) 1,4-Dioxane	9.700	88	37767	457.181	ug/l	92
46) Methyl methacrylate	9.682	41	78653	19.735	ug/l	88
47) n-amyl Acetate	12.500	43	157472	20.730	ug/l	95
48) t-1,3-Dichloropropene	10.841	75	143051	19.936	ug/l	96
49) cis-1,3-Dichloropropene	10.312	75	154526	19.874	ug/l	95
50) 1,1,2-Trichloroethane	11.018	97	102285	21.131	ug/l	95
51) Ethyl methacrylate	10.876	69	138165	20.423	ug/l	93
52) 1,3-Dichloropropane	11.165	76	166503	20.831	ug/l	98
53) Dibromochloromethane	11.359	129	104827	19.870	ug/l	100
54) 1,2-Dibromoethane	11.471	107	102341	20.437	ug/l	99
55) 2-Chloroethyl vinyl ether	10.165	63	348491	100.521	ug/l	98
56) Bromoform	12.582	173	66155	19.689	ug/l #	97
58) 4-Methyl-2-Pentanone	10.447	43	550107	109.190	ug/l	93
59) 2-Hexanone	11.200	43	407266	109.909	ug/l	95
61) Tetrachloroethene	11.106	164	84208	18.997	ug/l	98
62) Toluene	10.635	91	429396	20.200	ug/l	99
64) Chlorobenzene	11.894	112	262465	20.160	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.965	131	97764	20.244	ug/l	98
66) Ethyl Benzene	11.965	91	446796	19.990	ug/l	99
67) m/p-Xylenes	12.076	106	343269	39.108	ug/l	96
68) o-Xylene	12.400	106	173697	20.193	ug/l	92
69) Styrene	12.412	104	281653	19.889	ug/l	97
70) Isopropylbenzene	12.700	105	413207	19.711	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	134864	20.864	ug/l	99
72) 1,2,3-Trichloropropane	13.000	75	107251m	21.195	ug/l	
73) Bromobenzene	12.982	156	105343	20.208	ug/l	93
74) n-propylbenzene	13.041	91	474287	19.908	ug/l	99
75) 2-Chlorotoluene	13.129	91	298974	20.215	ug/l	95
76) 1,3,5-Trimethylbenzene	13.176	105	343113	20.004	ug/l	100
77) t-1,4-Dichloro-2-butene	12.741	75	38165	19.931	ug/l	92
78) 4-Chlorotoluene	13.223	91	301364	20.345	ug/l	94
79) tert-butylbenzene	13.441	119	285498	20.051	ug/l	97
80) 1,2,4-Trimethylbenzene	13.488	105	338806	19.825	ug/l	95
81) sec-Butylbenzene	13.617	105	389038	19.511	ug/l	99
82) p-Isopropyltoluene	13.735	119	319696	19.099	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	186410	19.882	ug/l	97
84) 1,4-Dichlorobenzene	13.812	146	187305	19.902	ug/l	99
85) n-Butylbenzene	14.059	91	265220	19.203	ug/l	100
86) Hexachloroethane	14.341	117	50216	19.019	ug/l	86
87) 1,2-Dichlorobenzene	14.112	146	184197	20.178	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	25211	21.608	ug/l	98
89) 1,2,4-Trichlorobenzene	15.847	180	90280	20.216	ug/l	97
90) Hexachlorobutadiene	15.506	225	37659	19.221	ug/l	98
91) Naphthalene	15.647	128	322647	20.348	ug/l	99
92) 1,2,3-Trichlorobenzene	15.847	180	90280	20.216	ug/l	97

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

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