

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042224\
 Data File : VN081821.D
 Acq On : 22 Apr 2024 10:17
 Operator : JC\MD
 Sample : VN0422WBS01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0422WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/23/2024
 Supervised By : Mahesh Dadoda 04/23/2024

Quant Time: Apr 23 06:54:42 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 11 09:25:01 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	13212	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	9.100	114	80447	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	141319	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	45636	28.117	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	93.733%		
60) 4-Bromofluorobenzene	12.847	95	62196	22.386	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	74.633%		
63) Toluene-d8	10.571	98	168191	29.670	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.900%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	40109	21.726	ug/l	98
3) Chloromethane	2.359	50	25239	15.758	ug/l	97
4) Vinyl Chloride	2.512	62	35233	21.392	ug/l	96
5) Bromomethane	2.965	94	28205	20.221	ug/l	99
6) Chloroethane	3.130	64	29953	23.236	ug/l	96
7) Trichlorofluoromethane	3.500	101	49146	18.176	ug/l	95
8) Diethyl Ether	3.965	74	14847	14.722	ug/l	86
9) 1,1,2-Trichlorotrifluo...	4.383	101	32582m	17.563	ug/l	
10) 1,1-Dichloroethene	4.341	96	26973	15.854	ug/l	90
11) Methyl Iodide	4.583	142	27377m	14.209	ug/l	
12) Methyl Acetate	5.018	43	25963m	16.619	ug/l	
13) Acrolein	4.177	56	19073	92.700	ug/l	97
14) Acrylonitrile	5.724	53	60887	78.297	ug/l	93
15) Acetone	4.430	58	13958m	81.609	ug/l	
16) Carbon Disulfide	4.712	76	74346	15.368	ug/l	99
17) Allyl chloride	5.030	41	33560	16.306	ug/l	87
18) Methylene Chloride	5.283	84	32920m	16.804	ug/l	
19) trans-1,2-Dichloroethene	5.788	96	31318	16.786	ug/l	81
20) Diisopropyl ether	6.665	45	89414	18.248	ug/l #	87
21) 1,1-Dichloroethane	6.565	63	59284	18.147	ug/l	96
22) cis-1,2-Dichloroethene	7.477	96	38674	17.166	ug/l	97
23) tert-Butyl Alcohol	5.518	59	19779	71.649	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	88453	16.623	ug/l	92
25) Chloroform	7.971	83	69289	18.641	ug/l	98
26) Cyclohexane	8.259	56	44769	17.094	ug/l #	83
29) 1,1-Dichloropropene	8.371	75	44516	21.048	ug/l	99
30) 2-Butanone	7.482	43	81140	100.455	ug/l	97
31) 2,2-Dichloropropane	7.488	77	55947	21.237	ug/l	98
32) 1,1,1-Trichloroethane	8.171	97	62647	21.492	ug/l	97
33) Carbon Tetrachloride	8.359	117	54798	20.740	ug/l	95
34) Benzene	8.606	78	140749	20.659	ug/l	98
35) Methacrylonitrile	7.777	41	19440	21.248	ug/l	95
36) 1,2-Dichloroethane	8.665	62	52098	23.313	ug/l	98
37) Trichloroethene	9.353	130	34149	18.941	ug/l	100
38) Methylcyclohexane	9.600	83	58192	22.511	ug/l	99
39) 1,2-Dichloropropane	9.618	63	42096	26.485	ug/l	98
40) Dibromomethane	9.706	93	34852	27.527	ug/l	93
41) Bromodichloromethane	9.888	83	73010	28.278	ug/l	98
42) Vinyl Acetate	6.600	43	361196	107.345	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	37620	21.133	ug/l	96
44) Isopropyl Acetate	8.688	43	61823	20.727	ug/l	94
45) 1,4-Dioxane	9.694	88	14841	450.737	ug/l #	85
46) Methyl methacrylate	9.682	41	31436	23.437	ug/l	96
47) n-amyl Acetate	12.494	43	67719	25.302	ug/l	99
48) t-1,3-Dichloropropene	10.835	75	66084	26.866	ug/l	97
49) cis-1,3-Dichloropropene	10.312	75	72921	27.528	ug/l #	89
50) 1,1,2-Trichloroethane	11.018	97	45746	26.984	ug/l	97
51) Ethyl methacrylate	10.871	69	59770	25.320	ug/l	94
52) 1,3-Dichloropropane	11.165	76	82945	29.849	ug/l	100
53) Dibromochloromethane	11.359	129	53845	26.588	ug/l	98
54) 1,2-Dibromoethane	11.470	107	43745	24.963	ug/l	97
55) 2-Chloroethyl vinyl ether	10.159	63	200755	173.184	ug/l	98
56) Bromoform	12.576	173	33977	26.238	ug/l #	75
58) 4-Methyl-2-Pentanone	10.441	43	251614	103.533	ug/l	92
59) 2-Hexanone	11.194	43	191713	105.040	ug/l	93
61) Tetrachloroethene	11.106	164	56185	21.456	ug/l	91
62) Toluene	10.629	91	202625	19.708	ug/l	98
64) Chlorobenzene	11.888	112	124307	19.067	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.959	131	45889	19.377	ug/l	96
66) Ethyl Benzene	11.965	91	199274	18.230	ug/l	94
67) m/p-Xylenes	12.070	106	164086	37.896	ug/l	95
68) o-Xylene	12.394	106	79643	19.375	ug/l	90
69) Styrene	12.412	104	132525	18.931	ug/l	97
70) Isopropylbenzene	12.694	105	162465	15.320	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	45093	16.278	ug/l	99
72) 1,2,3-Trichloropropane	12.994	75	42446m	16.551	ug/l	
73) Bromobenzene	12.982	156	40330	15.348	ug/l	92
74) n-propylbenzene	13.035	91	191906	15.118	ug/l	98
75) 2-Chlorotoluene	13.123	91	116006	15.340	ug/l	95
76) 1,3,5-Trimethylbenzene	13.170	105	134065	14.895	ug/l	98
77) t-1,4-Dichloro-2-butene	12.735	75	16171	15.226	ug/l	99
78) 4-Chlorotoluene	13.223	91	121939	16.257	ug/l	95
79) tert-butylbenzene	13.441	119	112158	14.647	ug/l	98
80) 1,2,4-Trimethylbenzene	13.482	105	137246	15.290	ug/l	99
81) sec-Butylbenzene	13.617	105	166093	15.040	ug/l	99
82) p-Isopropyltoluene	13.729	119	133493	14.413	ug/l	96
83) 1,3-Dichlorobenzene	13.729	146	79272	16.142	ug/l	97
84) 1,4-Dichlorobenzene	13.811	146	77076	16.214	ug/l	96
85) n-Butylbenzene	14.059	91	111991	14.355	ug/l	96
86) Hexachloroethane	14.335	117	27825	15.726	ug/l	89
87) 1,2-Dichlorobenzene	14.106	146	75957	16.250	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	9471	15.683	ug/l	95
89) 1,2,4-Trichlorobenzene	15.835	180	41171	16.069	ug/l	97
90) Hexachlorobutadiene	15.500	225	18106	17.635	ug/l	98
91) Naphthalene	15.641	128	116819	14.182	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	41171	16.069	ug/l	97

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

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