

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062323\
 Data File : VN078365.D
 Acq On : 23 Jun 2023 09:34
 Operator : JC\MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC010

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/24/2023
 Supervised By : Mahesh Dadoda 06/26/2023

Quant Time: Jun 24 00:29:19 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062323W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 24 00:28:04 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	80756	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	448404	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	376070	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	180608	29.699	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.000%		
60) 4-Bromofluorobenzene	12.853	95	151592	28.611	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	95.367%		
63) Toluene-d8	10.571	98	569453	31.252	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	104.167%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.136	85	44428	9.083	ug/l	99
3) Chloromethane	2.371	50	58750	9.960	ug/l	99
4) Vinyl Chloride	2.524	62	73062	10.069	ug/l	98
5) Bromomethane	2.977	94	51044	8.654	ug/l	86
6) Chloroethane	3.130	64	52310	10.121	ug/l	100
7) Trichlorofluoromethane	3.506	101	109177	12.784	ug/l	96
8) Diethyl Ether	3.977	74	26791	9.398	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.383	101	43938	9.465	ug/l	88
10) 1,1-Dichloroethene	4.348	96	44011m	9.669	ug/l	
11) Methyl Iodide	4.600	142	58206	9.026	ug/l	95
12) Methyl Acetate	5.042	43	66205	9.378	ug/l	95
13) Acrolein	4.200	56	40368	45.654	ug/l	98
14) Acrylonitrile	5.730	53	92528	47.738	ug/l	86
15) Acetone	4.442	58	28769	53.001	ug/l	99
16) Carbon Disulfide	4.724	76	112698	9.061	ug/l #	94
17) Allyl chloride	5.036	41	53102	9.282	ug/l	96
18) Methylene Chloride	5.289	84	49709	9.216	ug/l	96
19) trans-1,2-Dichloroethene	5.794	96	44942	8.947	ug/l	86
20) Diisopropyl ether	6.677	45	126209	9.203	ug/l	97
21) 1,1-Dichloroethane	6.583	63	85017	9.346	ug/l	97
22) cis-1,2-Dichloroethene	7.494	96	53137	9.298	ug/l	97
23) tert-Butyl Alcohol	5.536	59	34275m	48.098	ug/l	
24) Methyl tert-Butyl Ether	5.806	73	129084	8.994	ug/l #	88
25) Chloroform	7.977	83	93274	9.703	ug/l	92
26) Cyclohexane	8.259	56	58833	9.037	ug/l #	98
29) 1,1-Dichloropropene	8.383	75	62404	8.978	ug/l	98
30) 2-Butanone	7.494	43	117766	48.335	ug/l	99
31) 2,2-Dichloropropane	7.500	77	72161	9.709	ug/l	99
32) 1,1,1-Trichloroethane	8.177	97	79023	9.330	ug/l	98
33) Carbon Tetrachloride	8.371	117	67410	9.128	ug/l	95
34) Benzene	8.612	78	191185	9.223	ug/l #	94
35) Methacrylonitrile	7.788	41	24666	8.822	ug/l	87
36) 1,2-Dichloroethane	8.683	62	66513	9.412	ug/l	100
37) Trichloroethene	9.359	130	50314	9.500	ug/l	96
38) Methylcyclohexane	9.606	83	52314	8.566	ug/l	96
39) 1,2-Dichloropropane	9.630	63	48568	9.354	ug/l	91
40) Dibromomethane	9.712	93	35350	9.435	ug/l	97
41) Bromodichloromethane	9.888	83	68455	9.404	ug/l #	76
42) Vinyl Acetate	6.612	43	349274	45.001	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	45160	9.037	ug/l	94
44) Isopropyl Acetate	8.694	43	87098	9.400	ug/l	96
45) 1,4-Dioxane	9.700	88	14540	182.173	ug/l	98
46) Methyl methacrylate	9.688	41	37090	8.993	ug/l	96
47) n-amyl Acetate	12.500	43	55910	8.209	ug/l	95
48) t-1,3-Dichloropropene	10.841	75	66702	8.927	ug/l	97
49) cis-1,3-Dichloropropene	10.318	75	75400	9.155	ug/l	95
50) 1,1,2-Trichloroethane	11.018	97	45417	9.042	ug/l #	87
51) Ethyl methacrylate	10.877	69	58774	8.553	ug/l	88
52) 1,3-Dichloropropane	11.165	76	80841	9.589	ug/l	94
53) Dibromochloromethane	11.359	129	47673	8.948	ug/l	97
54) 1,2-Dibromoethane	11.471	107	46533	9.191	ug/l	100
55) 2-Chloroethyl vinyl ether	10.165	63	120478	47.525	ug/l	98
56) Bromoform	12.582	173	29357	9.002	ug/l #	94
58) 4-Methyl-2-Pentanone	10.453	43	239994	47.788	ug/l	98
59) 2-Hexanone	11.200	43	156079	45.000	ug/l	98
61) Tetrachloroethene	11.106	164	39846	9.669	ug/l	95
62) Toluene	10.635	91	212038	9.688	ug/l	99
64) Chlorobenzene	11.894	112	121545	9.369	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.965	131	47493	9.494	ug/l	98
66) Ethyl Benzene	11.971	91	205467	9.226	ug/l	99
67) m/p-Xylenes	12.076	106	150482	17.870	ug/l	100
68) o-Xylene	12.406	106	74452	9.118	ug/l	97
69) Styrene	12.412	104	114160	8.830	ug/l	97
70) Isopropylbenzene	12.700	105	180228	8.982	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	63615	9.749	ug/l	96
72) 1,2,3-Trichloropropane	13.000	75	48607m	8.451	ug/l	
73) Bromobenzene	12.988	156	41361	8.622	ug/l	95
74) n-propylbenzene	13.041	91	192124	8.805	ug/l	98
75) 2-Chlorotoluene	13.129	91	127832	8.655	ug/l	99
76) 1,3,5-Trimethylbenzene	13.176	105	142406	8.559	ug/l	99
77) t-1,4-Dichloro-2-butene	12.747	75	14394	8.188	ug/l	87
78) 4-Chlorotoluene	13.229	91	113434	8.207	ug/l	99
79) tert-butylbenzene	13.441	119	109817	8.024	ug/l	93
80) 1,2,4-Trimethylbenzene	13.488	105	136644	8.692	ug/l	99
81) sec-Butylbenzene	13.618	105	147065	8.613	ug/l	100
82) p-Isopropyltoluene	13.735	119	112337	8.180	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	63732	8.382	ug/l	99
84) 1,4-Dichlorobenzene	13.817	146	61561	8.374	ug/l	97
85) n-Butylbenzene	14.059	91	75118	7.405	ug/l	99
86) Hexachloroethane	14.341	117	24050	9.098	ug/l	99
87) 1,2-Dichlorobenzene	14.117	146	67761	8.991	ug/l	91
88) 1,2-Dibromo-3-Chloropr...	14.717	75	8189	8.329	ug/l	93
89) 1,2,4-Trichlorobenzene	15.394	180	13765	5.990	ug/l #	91
90) Hexachlorobutadiene	15.506	225	11310	7.239	ug/l	93
91) Naphthalene	15.647	128	44026	5.847	ug/l	98
92) 1,2,3-Trichlorobenzene	15.841	180	17470	6.571	ug/l	97

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

