

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050823\
 Data File : VN077609.D
 Acq On : 08 May 2023 10:58
 Operator : JC\MD
 Sample : VSTDICC010
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC010

Quant Time: May 08 12:56:28 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N050823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon May 08 12:44:57 2023
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/09/2023
 Supervised By : Mahesh Dadoda 05/09/2023

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

Internal Standards						
1) Bromochloromethane	7.825	128	107332	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	652874	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	600347	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.584	65	238754	30.932	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.100%			
60) 4-Bromofluorobenzene	12.848	95	287202	30.086	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.300%			
63) Toluene-d8	10.572	98	839173	30.264	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.867%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.137	85	72961	10.354	ug/l	85
3) Chloromethane	2.372	50	59781	11.163	ug/l	98
4) Vinyl Chloride	2.525	62	90338	10.963	ug/l	100
5) Bromomethane	2.978	94	56972	10.372	ug/l	87
6) Chloroethane	3.137	64	58548	10.875	ug/l	97
7) Trichlorofluoromethane	3.507	101	140403	12.528	ug/l	93
8) Diethyl Ether	3.966	74	36997m	10.490	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.378	101	64888	10.733	ug/l	96
10) 1,1-Dichloroethene	4.349	96	61223	10.706	ug/l	97
11) Methyl Iodide	4.601	142	92633	10.415	ug/l	96
12) Methyl Acetate	5.043	43	73469	10.628	ug/l #	90
13) Acrolein	4.190	56	45179	53.355	ug/l	98
14) Acrylonitrile	5.731	53	110962	52.769	ug/l	95
15) Acetone	4.443	58	32974	51.520	ug/l	97
16) Carbon Disulfide	4.719	76	150716	10.972	ug/l	97
17) Allyl chloride	5.037	41	65123	11.034	ug/l	91
18) Methylene Chloride	5.290	84	84152	12.108	ug/l	95
19) trans-1,2-Dichloroethene	5.790	96	68065	10.580	ug/l	96
20) Diisopropyl ether	6.678	45	152056	10.532	ug/l #	88
21) 1,1-Dichloroethane	6.578	63	112064	10.582	ug/l #	92
22) cis-1,2-Dichloroethene	7.489	96	83470	10.767	ug/l	92
23) tert-Butyl Alcohol	5.531	59	45628m	55.326	ug/l	
24) Methyl tert-Butyl Ether	5.807	73	203560	10.516	ug/l	98
25) Chloroform	7.972	83	131900	10.449	ug/l	99
26) Cyclohexane	8.260	56	94207	10.836	ug/l #	98
29) 1,1-Dichloropropene	8.378	75	99730	10.611	ug/l	97
30) 2-Butanone	7.489	43	128130	51.145	ug/l #	53
31) 2,2-Dichloropropane	7.501	77	114650	10.470	ug/l	95
32) 1,1,1-Trichloroethane	8.172	97	120443	9.902	ug/l	99
33) Carbon Tetrachloride	8.372	117	102619	9.976	ug/l	97
34) Benzene	8.613	78	289319	10.195	ug/l #	94
35) Methacrylonitrile	7.789	41	28060	9.868	ug/l	96
36) 1,2-Dichloroethane	8.678	62	100401	10.612	ug/l	99
37) Trichloroethene	9.354	130	77258	10.531	ug/l	88
38) Methylcyclohexane	9.607	83	126980	10.493	ug/l	96
39) 1,2-Dichloropropane	9.625	63	65255	9.932	ug/l	97
40) Dibromomethane	9.713	93	52400	10.116	ug/l	92
41) Bromodichloromethane	9.889	83	106596	10.219	ug/l	93
42) Vinyl Acetate	6.613	43	472460m	56.129	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	55085	10.247	ug/l	96
44) Isopropyl Acetate	8.695	43	99425	10.083	ug/l	89
45) 1,4-Dioxane	9.695	88	26767	218.435	ug/l	94
46) Methyl methacrylate	9.683	41	44031	9.945	ug/l	94
47) n-amyl Acetate	12.495	43	84517	9.955	ug/l	96
48) t-1,3-Dichloropropene	10.836	75	107708	10.243	ug/l	98
49) cis-1,3-Dichloropropene	10.319	75	118499	10.281	ug/l	96
50) 1,1,2-Trichloroethane	11.019	97	77500	10.389	ug/l	90
51) Ethyl methacrylate	10.878	69	96199	9.990	ug/l	90
52) 1,3-Dichloropropane	11.166	76	124382	10.312	ug/l	100
53) Dibromochloromethane	11.360	129	77379	9.970	ug/l	96
54) 1,2-Dibromoethane	11.472	107	74582	10.065	ug/l	98
55) 2-Chloroethyl vinyl ether	10.160	63	182740	41.964	ug/l	99
56) Bromoform	12.577	173	44150	9.668	ug/l	99
58) 4-Methyl-2-Pentanone	10.448	43	285317	51.608	ug/l	93
59) 2-Hexanone	11.195	43	206498	51.743	ug/l	95
61) Tetrachloroethene	11.107	164	60585	10.433	ug/l	98
62) Toluene	10.630	91	340994	10.259	ug/l	99
64) Chlorobenzene	11.895	112	213107	10.426	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.966	131	74747	10.136	ug/l	98
66) Ethyl Benzene	11.966	91	382443	10.385	ug/l	100
67) m/p-Xylenes	12.072	106	298118	20.574	ug/l	97
68) o-Xylene	12.401	106	143949	10.081	ug/l	97
69) Styrene	12.413	104	234086	10.252	ug/l	99
70) Isopropylbenzene	12.701	105	376709	10.157	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.942	83	103837	10.440	ug/l	94
72) 1,2,3-Trichloropropane	12.995	75	71375m	8.195	ug/l	
73) Bromobenzene	12.983	156	81076	10.454	ug/l	90
74) n-propylbenzene	13.036	91	438939	10.584	ug/l	100
75) 2-Chlorotoluene	13.130	91	256137	10.212	ug/l	99
76) 1,3,5-Trimethylbenzene	13.177	105	296953	10.131	ug/l	98
77) t-1,4-Dichloro-2-butene	12.742	75	27084	9.394	ug/l	92
78) 4-Chlorotoluene	13.224	91	259872	10.612	ug/l	100
79) tert-butylbenzene	13.442	119	274694	10.464	ug/l	97
80) 1,2,4-Trimethylbenzene	13.483	105	283329	9.960	ug/l	99
81) sec-Butylbenzene	13.619	105	388477	10.543	ug/l	97
82) p-Isopropyltoluene	13.736	119	320247	10.923	ug/l	99
83) 1,3-Dichlorobenzene	13.736	146	153714	10.674	ug/l	97
84) 1,4-Dichlorobenzene	13.813	146	149617	10.612	ug/l	98
85) n-Butylbenzene	14.060	91	273900	11.356	ug/l	99
86) Hexachloroethane	14.336	117	57647	10.551	ug/l	97
87) 1,2-Dichlorobenzene	14.107	146	148907	10.652	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.724	75	18759	10.379	ug/l	96
89) 1,2,4-Trichlorobenzene	15.401	180	48451	10.060	ug/l	99
90) Hexachlorobutadiene	15.507	225	35462	13.057	ug/l	94
91) Naphthalene	15.642	128	147396	8.959	ug/l	100
92) 1,2,3-Trichlorobenzene	15.848	180	43262	9.753	ug/l	96

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

