

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN040723\
 Data File : VN077267.D
 Acq On : 07 Apr 2023 09:34
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Quant Time: Apr 07 10:13:35 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N040723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 07 10:13:15 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 04/10/2023
 Supervised By : Semsettin Yesilyurt 04/10/2023

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

Internal Standards						
1) Bromochloromethane	7.813	128	62877	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	9.101	114	461809	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	498303	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.578	65	153724	26.599	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	88.667%#		
60) 4-Bromofluorobenzene	12.854	95	242156	25.676	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	85.600%		
63) Toluene-d8	10.566	98	521283	29.742	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.133%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.131	85	32797	4.076	ug/l	91
3) Chloromethane	2.372	50	46004	6.255	ug/l	99
4) Vinyl Chloride	2.525	62	61935	9.235	ug/l	95
5) Bromomethane	2.954	94	44335	10.338	ug/l	96
6) Chloroethane	3.125	64	51189	12.990	ug/l	95
7) Trichlorofluoromethane	3.501	101	57628	4.600	ug/l	98
8) Diethyl Ether	3.966	74	23782	5.062	ug/l	72
9) 1,1,2-Trichlorotrifluo...	4.378	101	37150m	5.234	ug/l	
10) 1,1-Dichloroethene	4.343	96	37346	5.421	ug/l	85
11) Methyl Iodide	4.595	142	37663	4.537	ug/l	85
12) Methyl Acetate	5.025	43	46262	4.083	ug/l	96
13) Acrolein	4.190	56	35831	21.391	ug/l	97
14) Acrylonitrile	5.731	53	83336	22.327	ug/l	91
15) Acetone	4.431	58	31815	31.320	ug/l #	49
16) Carbon Disulfide	4.719	76	100389	5.256	ug/l	98
17) Allyl chloride	5.031	41	43903	4.249	ug/l #	75
18) Methylene Chloride	5.290	84	43750	5.429	ug/l #	75
19) trans-1,2-Dichloroethene	5.795	96	40058	5.518	ug/l #	79
20) Diisopropyl ether	6.678	45	105607	4.531	ug/l #	88
21) 1,1-Dichloroethane	6.572	63	70029m	5.048	ug/l	
22) cis-1,2-Dichloroethene	7.489	96	47384	5.696	ug/l	89
23) tert-Butyl Alcohol	5.525	59	39282m	36.237	ug/l	
24) Methyl tert-Butyl Ether	5.807	73	125253	5.577	ug/l #	90
25) Chloroform	7.966	83	72909	5.117	ug/l	98
26) Cyclohexane	8.266	56	60025	4.739	ug/l #	77
29) 1,1-Dichloropropene	8.372	75	52986	4.871	ug/l	97
30) 2-Butanone	7.484	43	123795	24.945	ug/l #	86
31) 2,2-Dichloropropane	7.495	77	67949	6.305	ug/l #	55
32) 1,1,1-Trichloroethane	8.172	97	65919	5.196	ug/l	95
33) Carbon Tetrachloride	8.366	117	57196	5.098	ug/l	88
34) Benzene	8.607	78	167148	5.012	ug/l	97
35) Methacrylonitrile	7.784	41	24318	4.355	ug/l #	82
36) 1,2-Dichloroethane	8.672	62	52007	4.653	ug/l #	91
37) Trichloroethene	9.354	130	43381	5.278	ug/l	97
38) Methylcyclohexane	9.601	83	75158	5.551	ug/l	90
39) 1,2-Dichloropropane	9.625	63	41085	4.795	ug/l	88
40) Dibromomethane	9.713	93	30885	5.658	ug/l	98
41) Bromodichloromethane	9.889	83	61997	5.542	ug/l	99
42) Vinyl Acetate	6.613	43	357099	23.084	ug/l #	89

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.560	43	46040	4.598	ug/l #	80
44) Isopropyl Acetate	8.695	43	84783	5.223	ug/l #	88
45) 1,4-Dioxane	9.701	88	16587	121.465	ug/l #	88
46) Methyl methacrylate	9.683	41	36755	4.650	ug/l	87
47) n-amyl Acetate	12.501	43	67486	5.109	ug/l	99
48) t-1,3-Dichloropropene	10.836	75	65234	5.822	ug/l	94
49) cis-1,3-Dichloropropene	10.313	75	69957	5.497	ug/l #	85
50) 1,1,2-Trichloroethane	11.019	97	42784	5.350	ug/l	96
51) Ethyl methacrylate	10.877	69	65046	5.518	ug/l	88
52) 1,3-Dichloropropane	11.166	76	71646	5.187	ug/l	98
53) Dibromochloromethane	11.360	129	43046	5.277	ug/l	99
54) 1,2-Dibromoethane	11.472	107	42080	5.453	ug/l	97
55) 2-Chloroethyl vinyl ether	10.160	63	84870	20.533	ug/l	95
56) Bromoform	12.583	173	30159	5.526	ug/l #	96
58) 4-Methyl-2-Pentanone	10.448	43	242382	24.078	ug/l #	86
59) 2-Hexanone	11.195	43	187552	26.228	ug/l	89
61) Tetrachloroethene	11.107	164	34701	4.411	ug/l	93
62) Toluene	10.636	91	192777	5.614	ug/l	99
64) Chlorobenzene	11.895	112	115092	5.694	ug/l	90
65) 1,1,1,2-Tetrachloroethane	11.966	131	43851	5.776	ug/l	96
66) Ethyl Benzene	11.966	91	207553	5.568	ug/l	98
67) m/p-Xylenes	12.077	106	156447	11.079	ug/l	96
68) o-Xylene	12.401	106	78384	5.686	ug/l	98
69) Styrene	12.413	104	125034	5.592	ug/l	98
70) Isopropylbenzene	12.701	105	198906	5.545	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.942	83	61846	5.718	ug/l	98
72) 1,2,3-Trichloropropane	12.995	75	51214m	5.162	ug/l	
73) Bromobenzene	12.983	156	41251	5.096	ug/l	98
74) n-propylbenzene	13.042	91	211718	5.000	ug/l	97
75) 2-Chlorotoluene	13.124	91	127168	4.857	ug/l	100
76) 1,3,5-Trimethylbenzene	13.177	105	155054	4.994	ug/l	99
77) t-1,4-Dichloro-2-butene	12.742	75	21555	7.117	ug/l	71
78) 4-Chlorotoluene	13.224	91	115759	4.586	ug/l	97
79) tert-butylbenzene	13.442	119	140203	5.400	ug/l	98
80) 1,2,4-Trimethylbenzene	13.489	105	143903	4.716	ug/l	99
81) sec-Butylbenzene	13.618	105	190814	5.137	ug/l	99
82) p-Isopropyltoluene	13.730	119	149454	4.978	ug/l	99
83) 1,3-Dichlorobenzene	13.736	146	71704	4.787	ug/l	99
84) 1,4-Dichlorobenzene	13.818	146	68070	4.679	ug/l	98
85) n-Butylbenzene	14.060	91	122092	4.798	ug/l	100
86) Hexachloroethane	14.336	117	34760	6.484	ug/l	90
87) 1,2-Dichlorobenzene	14.107	146	68466	4.584	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.718	75	9688	4.599	ug/l #	85
89) 1,2,4-Trichlorobenzene	15.365	180	18080	2.269	ug/l	93
90) Hexachlorobutadiene	15.465	225	15644	3.724	ug/l	94
91) Naphthalene	15.589	128	59243	2.344	ug/l	97
92) 1,2,3-Trichlorobenzene	15.759	180	18092	2.265	ug/l	96

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

