

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080123\
 Data File : VN078720.D
 Acq On : 01 Aug 2023 16:36
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Quant Time: Aug 02 02:53:11 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080123W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 02 02:50:16 2023
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 08/02/2023
 Supervised By : Mahesh Dadoda 08/02/2023

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

Internal Standards						
1) Bromochloromethane	7.818	128	106998	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	579190	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	494333	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	231376	28.699	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	95.667%		
60) 4-Bromofluorobenzene	12.853	95	205343	28.832	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	96.100%		
63) Toluene-d8	10.571	98	706428	28.856	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	96.200%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.130	85	31482	5.319	ug/l	95
3) Chloromethane	2.371	50	37219	5.061	ug/l	90
4) Vinyl Chloride	2.518	62	50967	5.303	ug/l	97
5) Bromomethane	2.959	94	43008	5.841	ug/l	98
6) Chloroethane	3.124	64	33710	5.338	ug/l	91
7) Trichlorofluoromethane	3.506	101	49188	4.926	ug/l	94
8) Diethyl Ether	3.971	74	15531m	4.817	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.371	101	24412	4.591	ug/l	70
10) 1,1-Dichloroethene	4.342	96	22754m	4.458	ug/l	
11) Methyl Iodide	4.600	142	32725	4.629	ug/l	97
12) Methyl Acetate	5.042	43	39495	5.238	ug/l	100
13) Acrolein	4.200	56	24848m	27.918	ug/l	
14) Acrylonitrile	5.736	53	57243m	26.210	ug/l	
15) Acetone	4.448	58	18898m	28.952	ug/l	
16) Carbon Disulfide	4.718	76	75933	5.208	ug/l	97
17) Allyl chloride	5.030	41	31206	4.390	ug/l	93
18) Methylene Chloride	5.295	84	32058	5.815	ug/l #	84
19) trans-1,2-Dichloroethene	5.800	96	29276	4.925	ug/l	90
20) Diisopropyl ether	6.683	45	66564	4.272	ug/l #	88
21) 1,1-Dichloroethane	6.577	63	49295	4.741	ug/l	97
22) cis-1,2-Dichloroethene	7.489	96	31390	4.755	ug/l	97
23) tert-Butyl Alcohol	5.536	59	28175m	28.197	ug/l	
24) Methyl tert-Butyl Ether	5.806	73	73721m	4.287	ug/l	
25) Chloroform	7.977	83	51177	4.713	ug/l	98
26) Cyclohexane	8.265	56	33383	4.400	ug/l #	99
29) 1,1-Dichloropropene	8.383	75	34001	4.754	ug/l	97
30) 2-Butanone	7.494	43	77419	27.488	ug/l	100
31) 2,2-Dichloropropane	7.506	77	43827m	5.361	ug/l	
32) 1,1,1-Trichloroethane	8.177	97	45053	4.928	ug/l	99
33) Carbon Tetrachloride	8.365	117	38270	4.750	ug/l	100
34) Benzene	8.612	78	109545	5.081	ug/l #	89
35) Methacrylonitrile	7.788	41	15273	4.873	ug/l	73
36) 1,2-Dichloroethane	8.677	62	38553	5.068	ug/l	99
37) Trichloroethene	9.359	130	29245	4.924	ug/l	92
38) Methylcyclohexane	9.606	83	35012	4.931	ug/l	96
39) 1,2-Dichloropropane	9.630	63	28467	5.031	ug/l	95
40) Dibromomethane	9.712	93	20948	5.221	ug/l	91
41) Bromodichloromethane	9.900	83	41586	5.179	ug/l #	83
42) Vinyl Acetate	6.618	43	206970	21.940	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.577	43	31403m	5.288	ug/l	
44) Isopropyl Acetate	8.700	43	55907	5.381	ug/l	96
45) 1,4-Dioxane	9.706	88	9340	100.125	ug/l #	80
46) Methyl methacrylate	9.688	41	20269	4.369	ug/l	95
47) n-amyl Acetate	12.500	43	39082	5.142	ug/l	96
48) t-1,3-Dichloropropene	10.847	75	41515	4.868	ug/l #	83
49) cis-1,3-Dichloropropene	10.324	75	43984	4.868	ug/l	97
50) 1,1,2-Trichloroethane	11.024	97	28606	4.959	ug/l	90
51) Ethyl methacrylate	10.882	69	33901	4.395	ug/l	85
52) 1,3-Dichloropropane	11.171	76	44575	4.254	ug/l	97
53) Dibromochloromethane	11.365	129	28788	4.514	ug/l	96
54) 1,2-Dibromoethane	11.476	107	28322	4.973	ug/l	100
55) 2-Chloroethyl vinyl ether	10.165	63	43316	17.621	ug/l	98
56) Bromoform	12.582	173	19607	4.884	ug/l	99
58) 4-Methyl-2-Pentanone	10.453	43	140358	22.133	ug/l	99
59) 2-Hexanone	11.200	43	108149	22.467	ug/l	96
61) Tetrachloroethene	11.112	164	25696	4.546	ug/l #	83
62) Toluene	10.635	91	122093	4.812	ug/l	99
64) Chlorobenzene	11.900	112	72443	4.939	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.965	131	27445	4.713	ug/l	95
66) Ethyl Benzene	11.971	91	119643	4.770	ug/l	97
67) m/p-Xylenes	12.076	106	88246	9.244	ug/l	94
68) o-Xylene	12.400	106	42572	4.463	ug/l	100
69) Styrene	12.418	104	63094	4.248	ug/l	99
70) Isopropylbenzene	12.700	105	108139	4.559	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	40544	5.107	ug/l	95
72) 1,2,3-Trichloropropane	13.000	75	37428m	4.974	ug/l	
73) Bromobenzene	12.982	156	29177	4.973	ug/l	92
74) n-propylbenzene	13.041	91	122191	4.657	ug/l	99
75) 2-Chlorotoluene	13.129	91	83067	4.980	ug/l	100
76) 1,3,5-Trimethylbenzene	13.176	105	94562	4.846	ug/l	100
77) t-1,4-Dichloro-2-butene	12.741	75	9830	4.454	ug/l	87
78) 4-Chlorotoluene	13.223	91	71891	4.495	ug/l	100
79) tert-butylbenzene	13.441	119	77229	4.556	ug/l	96
80) 1,2,4-Trimethylbenzene	13.488	105	80775	4.360	ug/l	97
81) sec-Butylbenzene	13.623	105	140177	6.493	ug/l	100
82) p-Isopropyltoluene	13.735	119	89277	5.070	ug/l	98
83) 1,3-Dichlorobenzene	13.741	146	47259	5.028	ug/l	95
84) 1,4-Dichlorobenzene	13.818	146	43089	4.943	ug/l	99
85) n-Butylbenzene	14.059	91	63670	5.347	ug/l	99
86) Hexachloroethane	14.341	117	16898	4.991	ug/l	93
87) 1,2-Dichlorobenzene	14.112	146	43219	4.897	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.723	75	6242	5.194	ug/l	94
89) 1,2,4-Trichlorobenzene	15.400	180	13379m	5.256	ug/l	
90) Hexachlorobutadiene	15.500	225	14398	6.605	ug/l	92
91) Naphthalene	15.647	128	43778	5.489	ug/l	97
92) 1,2,3-Trichlorobenzene	15.847	180	17150	5.606	ug/l	95

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

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