

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN101222\
 Data File : VN074884.D
 Acq On : 12 Oct 2022 18:45
 Operator : JC\MD
 Sample : N4955-07 4.0PPB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2022

Quant Time: Oct 13 08:01:27 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N101222W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 13 07:52:24 2022
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 10/13/2022
 Supervised By : Mahesh Dadoda 10/14/2022

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

Internal Standards						
1) Bromochloromethane	7.824	128	65363	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	390685	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	362899	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	198793	32.486	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 108.300%			
60) 4-Bromofluorobenzene	12.847	95	163692	25.436	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 84.800%			
63) Toluene-d8	10.571	98	631916	30.171	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.567%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.148	85	17762	4.894	ug/l	79
3) Chloromethane	2.383	50	34172	5.821	ug/l	96
4) Vinyl Chloride	2.536	62	44642	5.164	ug/l #	83
5) Bromomethane	2.948	94	37601m	5.486	ug/l	
6) Chloroethane	3.136	64	38813m	5.987	ug/l	
7) Trichlorofluoromethane	3.512	101	35925	5.575	ug/l #	64
8) Diethyl Ether	3.983	74	14251m	4.742	ug/l	
9) 1,1,2-Trichlorotrifluo...	4.389	101	19342m	4.770	ug/l	
10) 1,1-Dichloroethene	4.359	96	20821m	5.220	ug/l	
11) Methyl Iodide	4.618	142	21791m	4.376	ug/l	
12) Methyl Acetate	5.059	43	51526	5.359	ug/l	96
13) Acrolein	4.218	56	31522m	23.204	ug/l	
14) Acrylonitrile	5.742	53	84667	23.611	ug/l	94
15) Acetone	4.459	58	24729	25.162	ug/l	78
16) Carbon Disulfide	4.724	76	47882	4.672	ug/l	99
17) Allyl chloride	5.047	41	40488m	5.098	ug/l	
18) Methylene Chloride	5.300	84	31104m	6.013	ug/l	
19) trans-1,2-Dichloroethene	5.806	96	22305m	5.094	ug/l	
20) Diisopropyl ether	6.700	45	83364m	4.496	ug/l	
21) 1,1-Dichloroethane	6.589	63	46824	4.964	ug/l	98
22) cis-1,2-Dichloroethene	7.500	96	25602m	4.669	ug/l	
23) tert-Butyl Alcohol	5.547	59	39978m	26.458	ug/l	
24) Methyl tert-Butyl Ether	5.824	73	79950m	4.799	ug/l	
25) Chloroform	7.977	83	45764	4.886	ug/l #	74
26) Cyclohexane	8.271	56	36470	4.402	ug/l #	92
29) 1,1-Dichloropropene	8.371	75	32583m	4.622	ug/l	
30) 2-Butanone	7.500	43	122488	21.778	ug/l #	96
31) 2,2-Dichloropropane	7.494	77	37469m	4.342	ug/l	
32) 1,1,1-Trichloroethane	8.183	97	36679	4.339	ug/l #	89
33) Carbon Tetrachloride	8.371	117	27673	3.986	ug/l	89
34) Benzene	8.618	78	95735	4.109	ug/l	97
35) Methacrylonitrile	7.800	41	21361	3.695	ug/l	85
36) 1,2-Dichloroethane	8.683	62	35802	4.614	ug/l	96
37) Trichloroethene	9.359	130	19782	4.082	ug/l #	77
38) Methylcyclohexane	9.600	83	36752	4.292	ug/l	85
39) 1,2-Dichloropropane	9.624	63	26370	4.366	ug/l	97
40) Dibromomethane	9.712	93	17468	4.364	ug/l	98
41) Bromodichloromethane	9.888	83	32659	4.189	ug/l #	94
42) Vinyl Acetate	6.624	43	356975m	21.307	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.577	43	44578	4.076	ug/l	96
44) Isopropyl Acetate	8.700	43	73952	4.373	ug/l	94
45) 1,4-Dioxane	9.706	88	11112	71.661	ug/l #	71
46) Methyl methacrylate	9.688	41	25589	3.494	ug/l	91
47) n-amyl Acetate	12.500	43	52718	3.563	ug/l	94
48) t-1,3-Dichloropropene	10.847	75	31611	3.534	ug/l #	87
49) cis-1,3-Dichloropropene	10.318	75	38287	4.037	ug/l #	87
50) 1,1,2-Trichloroethane	11.018	97	25149	4.270	ug/l #	92
51) Ethyl methacrylate	10.877	69	37503	3.744	ug/l	96
52) 1,3-Dichloropropane	11.165	76	45276	4.453	ug/l	87
53) Dibromochloromethane	11.365	129	21532	3.731	ug/l	86
54) 1,2-Dibromoethane	11.471	107	24013	4.243	ug/l	98
55) 2-Chloroethyl vinyl ether	10.159	63	70070	17.884	ug/l	98
56) Bromoform	12.571	173	12968m	3.118	ug/l	
58) 4-Methyl-2-Pentanone	10.447	43	233349	20.676	ug/l	95
59) 2-Hexanone	11.200	43	170737	19.657	ug/l	96
61) Tetrachloroethene	11.106	164	16241	4.198	ug/l	92
62) Toluene	10.635	91	102441	4.086	ug/l	97
64) Chlorobenzene	11.894	112	58489	4.104	ug/l	90
65) 1,1,1,2-Tetrachloroethane	11.959	131	20821	3.879	ug/l	95
66) Ethyl Benzene	11.965	91	104360	3.828	ug/l	89
67) m/p-Xylenes	12.071	106	72128	7.042	ug/l	97
68) o-Xylene	12.394	106	38745	3.722	ug/l	96
69) Styrene	12.412	104	61628	3.617	ug/l	95
70) Isopropylbenzene	12.694	105	93602	3.486	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.941	83	41525	4.134	ug/l	96
72) 1,2,3-Trichloropropane	12.994	75	34326m	4.068	ug/l	
73) Bromobenzene	12.982	156	23717	4.215	ug/l	84
74) n-propylbenzene	13.035	91	108891	3.478	ug/l	100
75) 2-Chlorotoluene	13.129	91	64459	3.520	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	75963	3.481	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	10179	2.903	ug/l	75
78) 4-Chlorotoluene	13.223	91	60794	3.479	ug/l	98
79) tert-butylbenzene	13.441	119	68311	3.519	ug/l	100
80) 1,2,4-Trimethylbenzene	13.488	105	72702	3.311	ug/l	96
81) sec-Butylbenzene	13.623	105	90863	3.257	ug/l	98
82) p-Isopropyltoluene	13.735	119	67539	3.047	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	35439	3.228	ug/l	93
84) 1,4-Dichlorobenzene	13.812	146	35492	3.366	ug/l	98
85) n-Butylbenzene	14.059	91	59272	3.030	ug/l	97
86) Hexachloroethane	14.329	117	15612	3.597	ug/l	90
87) 1,2-Dichlorobenzene	14.112	146	41221	3.781	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	14.717	75	6956	3.431	ug/l	97
89) 1,2,4-Trichlorobenzene	15.394	180	15328	3.079	ug/l #	76
90) Hexachlorobutadiene	15.512	225	8993	3.705	ug/l #	39
91) Naphthalene	15.641	128	67657	3.425	ug/l #	88
92) 1,2,3-Trichlorobenzene	15.847	180	18460m	3.544	ug/l	

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

