

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090723\
 Data File : VN079176.D
 Acq On : 07 Sep 2023 13:27
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN090723

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/08/2023
 Supervised By : Mahesh Dadoda 09/08/2023

Quant Time: Sep 08 05:41:05 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 08 05:09:17 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	32171	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	176728	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	157439	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	70712	29.256	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.533%		
60) 4-Bromofluorobenzene	12.853	95	71237	30.708	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	102.367%		
63) Toluene-d8	10.571	98	222836	30.286	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.967%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.130	85	35420	19.741	ug/l	99
3) Chloromethane	2.365	50	25602	14.230	ug/l	98
4) Vinyl Chloride	2.512	62	28681	16.113	ug/l	92
5) Bromomethane	2.948	94	19551	17.896	ug/l	96
6) Chloroethane	3.112	64	20824	19.102	ug/l #	86
7) Trichlorofluoromethane	3.495	101	40347	19.039	ug/l	94
8) Diethyl Ether	3.965	74	14571	18.753	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.371	101	21915	18.766	ug/l	99
10) 1,1-Dichloroethene	4.342	96	21295	18.819	ug/l	92
11) Methyl Iodide	4.595	142	28577	20.049	ug/l	96
12) Methyl Acetate	5.036	43	50079	18.991	ug/l	93
13) Acrolein	4.189	56	21289	88.641	ug/l	97
14) Acrylonitrile	5.730	53	68477	88.512	ug/l	92
15) Acetone	4.442	58	19886	98.534	ug/l	96
16) Carbon Disulfide	4.712	76	63021	18.848	ug/l	96
17) Allyl chloride	5.030	41	34026	18.714	ug/l	94
18) Methylene Chloride	5.277	84	27781	18.305	ug/l	98
19) trans-1,2-Dichloroethene	5.789	96	25117	17.741	ug/l	94
20) Diisopropyl ether	6.683	45	80985	14.919	ug/l	93
21) 1,1-Dichloroethane	6.577	63	48859	15.365	ug/l	98
22) cis-1,2-Dichloroethene	7.494	96	45156	20.395	ug/l	100
23) tert-Butyl Alcohol	5.536	59	26978	90.646	ug/l #	100
24) Methyl tert-Butyl Ether	5.806	73	79374	17.773	ug/l	97
25) Chloroform	7.971	83	74757	19.495	ug/l	99
26) Cyclohexane	8.265	56	56990	19.763	ug/l #	99
29) 1,1-Dichloropropene	8.377	75	54520	19.241	ug/l	98
30) 2-Butanone	7.494	43	146235	102.607	ug/l	100
31) 2,2-Dichloropropane	7.494	77	59193	20.944	ug/l #	78
32) 1,1,1-Trichloroethane	8.177	97	63606	19.054	ug/l	98
33) Carbon Tetrachloride	8.371	117	55907	19.496	ug/l	98
34) Benzene	8.612	78	170113	18.896	ug/l	99
35) Methacrylonitrile	7.783	41	29641	19.316	ug/l	96
36) 1,2-Dichloroethane	8.671	62	55118	18.564	ug/l	99
37) Trichloroethene	9.359	130	40554	19.058	ug/l	95
38) Methylcyclohexane	9.606	83	55172	19.477	ug/l	99
39) 1,2-Dichloropropane	9.630	63	44585	19.199	ug/l	99
40) Dibromomethane	9.718	93	29173	19.050	ug/l	97
41) Bromodichloromethane	9.894	83	58588	19.192	ug/l	96
42) Vinyl Acetate	6.612	43	256513	75.787	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	56981	21.052	ug/l	99
44) Isopropyl Acetate	8.694	43	92844	19.068	ug/l	100
45) 1,4-Dioxane	9.706	88	19014	392.311	ug/l	97
46) Methyl methacrylate	9.688	41	43229	19.872	ug/l	98
47) n-amyl Acetate	12.500	43	67901	19.829	ug/l	97
48) t-1,3-Dichloropropene	10.841	75	60611	18.352	ug/l	95
49) cis-1,3-Dichloropropene	10.318	75	68228	19.805	ug/l	97
50) 1,1,2-Trichloroethane	11.024	97	41957	19.529	ug/l	95
51) Ethyl methacrylate	10.882	69	63410	19.111	ug/l	99
52) 1,3-Dichloropropane	11.171	76	72392	19.737	ug/l	99
53) Dibromochloromethane	11.365	129	43841	19.456	ug/l	99
54) 1,2-Dibromoethane	11.476	107	42730	19.586	ug/l	98
55) 2-Chloroethyl vinyl ether	10.165	63	119716	101.545	ug/l	99
56) Bromoform	12.582	173	30281	19.286	ug/l	98
58) 4-Methyl-2-Pentanone	10.453	43	290232	100.458	ug/l	100
59) 2-Hexanone	11.200	43	211948	104.460	ug/l	100
61) Tetrachloroethene	11.106	164	34443	20.106	ug/l	94
62) Toluene	10.635	91	178955	19.522	ug/l	98
64) Chlorobenzene	11.900	112	104735	19.585	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.965	131	40709	19.884	ug/l	97
66) Ethyl Benzene	11.971	91	188447	20.417	ug/l	99
67) m/p-Xylenes	12.076	106	140951	40.586	ug/l	100
68) o-Xylene	12.406	106	70791	21.136	ug/l	95
69) Styrene	12.418	104	113394	21.226	ug/l	98
70) Isopropylbenzene	12.700	105	174317	20.476	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.941	83	62635	19.667	ug/l	98
72) 1,2,3-Trichloropropane	13.000	75	50677m	18.912	ug/l	
73) Bromobenzene	12.982	156	40919	19.241	ug/l	97
74) n-propylbenzene	13.041	91	199251	20.541	ug/l	100
75) 2-Chlorotoluene	13.129	91	126021	20.261	ug/l	98
76) 1,3,5-Trimethylbenzene	13.176	105	144681	20.553	ug/l	100
77) t-1,4-Dichloro-2-butene	12.741	75	19132	20.279	ug/l	97
78) 4-Chlorotoluene	13.229	91	118427	20.165	ug/l	97
79) tert-butylbenzene	13.441	119	114346	19.790	ug/l	99
80) 1,2,4-Trimethylbenzene	13.488	105	129887	19.321	ug/l	99
81) sec-Butylbenzene	13.623	105	145578	18.415	ug/l	99
82) p-Isopropyltoluene	13.735	119	104535	16.740	ug/l	98
83) 1,3-Dichlorobenzene	13.735	146	55554	16.449	ug/l	98
84) 1,4-Dichlorobenzene	13.818	146	51864	16.374	ug/l	99
85) n-Butylbenzene	14.059	91	99412	20.902	ug/l	98
86) Hexachloroethane	14.335	117	25980	21.013	ug/l	98
87) 1,2-Dichlorobenzene	14.112	146	69195	20.761	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.723	75	10934	20.312	ug/l	97
89) 1,2,4-Trichlorobenzene	15.841	180	28618	20.065	ug/l	100
90) Hexachlorobutadiene	15.506	225	17326	20.000	ug/l	99
91) Naphthalene	15.647	128	70902	19.024	ug/l	99
92) 1,2,3-Trichlorobenzene	15.841	180	28618	20.065	ug/l	100

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

