

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062323\
 Data File : VN078385.D
 Acq On : 23 Jun 2023 18:03
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/24/2023
 Supervised By : Mahesh Dadoda 06/26/2023

Quant Time: Jun 24 01:25:07 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062323W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 24 00:59:50 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	76469	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	440525	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	382813	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	173187	30.075	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.267%			
60) 4-Bromofluorobenzene	12.853	95	160885	29.830	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.433%			
63) Toluene-d8	10.571	98	543863	29.322	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 97.733%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.136	85	91139	19.678	ug/l	97
3) Chloromethane	2.371	50	113893	20.391	ug/l	98
4) Vinyl Chloride	2.518	62	139114	20.248	ug/l	100
5) Bromomethane	2.971	94	78534	14.060	ug/l	99
6) Chloroethane	3.124	64	87933	17.968	ug/l	96
7) Trichlorofluoromethane	3.506	101	220201	27.231	ug/l	97
8) Diethyl Ether	3.971	74	52334	19.388	ug/l	92
9) 1,1,2-Trichlorotrifluo...	4.383	101	85648	19.488	ug/l	75
10) 1,1-Dichloroethene	4.348	96	85922	19.935	ug/l	96
11) Methyl Iodide	4.595	142	89359	14.634	ug/l	97
12) Methyl Acetate	5.042	43	133144	19.912	ug/l	94
13) Acrolein	4.200	56	82548m	98.591	ug/l	
14) Acrylonitrile	5.742	53	184467	101.836	ug/l	100
15) Acetone	4.436	58	50129m	97.050	ug/l	
16) Carbon Disulfide	4.724	76	218240	18.530	ug/l	98
17) Allyl chloride	5.036	41	103706	19.183	ug/l	97
18) Methylene Chloride	5.283	84	99884m	19.557	ug/l	
19) trans-1,2-Dichloroethene	5.794	96	92843	19.518	ug/l	91
20) Diisopropyl ether	6.683	45	262324	20.201	ug/l	97
21) 1,1-Dichloroethane	6.577	63	168167	19.524	ug/l	96
22) cis-1,2-Dichloroethene	7.494	96	107648	19.893	ug/l	95
23) tert-Butyl Alcohol	5.542	59	62914	92.978	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	269991m	19.866	ug/l	
25) Chloroform	7.971	83	184744	20.295	ug/l	92
26) Cyclohexane	8.265	56	117193	19.011	ug/l #	99
29) 1,1-Dichloropropene	8.383	75	127388	18.654	ug/l	99
30) 2-Butanone	7.494	43	239802	100.184	ug/l	99
31) 2,2-Dichloropropane	7.500	77	131404	17.997	ug/l	99
32) 1,1,1-Trichloroethane	8.177	97	161127	19.364	ug/l	100
33) Carbon Tetrachloride	8.371	117	140400	19.352	ug/l	93
34) Benzene	8.612	78	395697	19.431	ug/l	95
35) Methacrylonitrile	7.783	41	56153	20.462	ug/l	86
36) 1,2-Dichloroethane	8.677	62	132142	19.033	ug/l	100
37) Trichloroethene	9.365	130	99441	19.113	ug/l	100
38) Methylcyclohexane	9.612	83	110128	18.356	ug/l	98
39) 1,2-Dichloropropane	9.624	63	99430	19.492	ug/l	90
40) Dibromomethane	9.712	93	71895	19.531	ug/l	96
41) Bromodichloromethane	9.894	83	140460	19.642	ug/l	95
42) Vinyl Acetate	6.618	43	743380	97.492	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.571	43	106613	21.154	ug/l	99
44) Isopropyl Acetate	8.694	43	186910	20.533	ug/l	98
45) 1,4-Dioxane	9.700	88	31185	388.319	ug/l #	88
46) Methyl methacrylate	9.688	41	78854	19.460	ug/l	100
47) n-amyl Acetate	12.500	43	133025	19.880	ug/l	99
48) t-1,3-Dichloropropene	10.841	75	138442	18.858	ug/l	94
49) cis-1,3-Dichloropropene	10.318	75	153374	18.955	ug/l	96
50) 1,1,2-Trichloroethane	11.024	97	96675	19.591	ug/l #	90
51) Ethyl methacrylate	10.882	69	130853	19.384	ug/l	95
52) 1,3-Dichloropropane	11.171	76	164957	19.917	ug/l	98
53) Dibromochloromethane	11.365	129	102025	19.493	ug/l	99
54) 1,2-Dibromoethane	11.471	107	99404	19.986	ug/l	99
55) 2-Chloroethyl vinyl ether	10.165	63	275393	110.577	ug/l	97
56) Bromoform	12.582	173	62873	19.624	ug/l	96
58) 4-Methyl-2-Pentanone	10.453	43	519851	101.690	ug/l	99
59) 2-Hexanone	11.200	43	366737	103.874	ug/l	98
61) Tetrachloroethene	11.112	164	79022	18.838	ug/l	95
62) Toluene	10.635	91	432997	19.435	ug/l	99
64) Chlorobenzene	11.894	112	256527	19.426	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.965	131	97317	19.112	ug/l	99
66) Ethyl Benzene	11.971	91	438867	19.359	ug/l	96
67) m/p-Xylenes	12.076	106	333743	38.935	ug/l	100
68) o-Xylene	12.400	106	165302	19.887	ug/l	99
69) Styrene	12.418	104	258190	19.618	ug/l	99
70) Isopropylbenzene	12.700	105	393307	19.256	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.941	83	137025	20.630	ug/l	95
72) 1,2,3-Trichloropropane	12.994	75	106514m	19.239	ug/l	
73) Bromobenzene	12.982	156	93388	19.124	ug/l	97
74) n-propylbenzene	13.041	91	421642	18.984	ug/l	98
75) 2-Chlorotoluene	13.129	91	285815	19.010	ug/l	100
76) 1,3,5-Trimethylbenzene	13.176	105	315788	18.646	ug/l	100
77) t-1,4-Dichloro-2-butene	12.741	75	30681	17.145	ug/l	95
78) 4-Chlorotoluene	13.229	91	259978	18.478	ug/l	100
79) tert-butylbenzene	13.441	119	270284	19.400	ug/l	100
80) 1,2,4-Trimethylbenzene	13.488	105	316213	19.759	ug/l	99
81) sec-Butylbenzene	13.618	105	333089	19.164	ug/l	99
82) p-Isopropyltoluene	13.735	119	277482	19.848	ug/l	99
83) 1,3-Dichlorobenzene	13.741	146	153233	19.798	ug/l	97
84) 1,4-Dichlorobenzene	13.818	146	142663	19.064	ug/l	98
85) n-Butylbenzene	14.059	91	192269	18.619	ug/l	100
86) Hexachloroethane	14.335	117	50940	18.931	ug/l	92
87) 1,2-Dichlorobenzene	14.112	146	154015	20.075	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	14.729	75	20108	20.092	ug/l	96
89) 1,2,4-Trichlorobenzene	15.394	180	39809	17.018	ug/l	98
90) Hexachlorobutadiene	15.506	225	28256	17.766	ug/l	96
91) Naphthalene	15.647	128	126603	16.516	ug/l	97
92) 1,2,3-Trichlorobenzene	15.847	180	49498	18.290	ug/l	95

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

