

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051424\
 Data File : VN082125.D
 Acq On : 14 May 2024 19:39
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/15/2024
 Supervised By : Mahesh Dadoda 05/15/2024

Quant Time: May 15 02:51:18 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 14 11:29:16 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.818	128	57004	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	324182	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	293058	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.582	65	162027	33.949	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 113.167%#			
60) 4-Bromofluorobenzene	12.847	95	136723	28.033	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 93.433%			
63) Toluene-d8	10.571	98	416060	29.895	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.633%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	60510	18.700	ug/l	99
3) Chloromethane	2.365	50	76305	20.334	ug/l	98
4) Vinyl Chloride	2.518	62	85295	24.061	ug/l	96
5) Bromomethane	2.971	94	51194	27.675	ug/l	93
6) Chloroethane	3.124	64	67552	33.652	ug/l	94
7) Trichlorofluoromethane	3.506	101	110483	21.299	ug/l	90
8) Diethyl Ether	3.965	74	44272	17.630	ug/l	71
9) 1,1,2-Trichlorotrifluo...	4.377	101	67410m	18.935	ug/l	
10) 1,1-Dichloroethene	4.347	96	61078	17.534	ug/l	82
11) Methyl Iodide	4.595	142	65520	20.592	ug/l	91
12) Methyl Acetate	5.030	43	111814	25.109	ug/l #	74
13) Acrolein	4.183	56	75533	81.449	ug/l	98
14) Acrylonitrile	5.718	53	210327	105.787	ug/l	97
15) Acetone	4.430	58	44858	100.042	ug/l	79
16) Carbon Disulfide	4.712	76	143383	14.876	ug/l	99
17) Allyl chloride	5.030	41	116475	18.681	ug/l	80
18) Methylene Chloride	5.277	84	76919	19.431	ug/l #	80
19) trans-1,2-Dichloroethene	5.789	96	63651	17.555	ug/l	90
20) Diisopropyl ether	6.671	45	305854	22.632	ug/l #	90
21) 1,1-Dichloroethane	6.571	63	153915	21.509	ug/l	93
22) cis-1,2-Dichloroethene	7.494	96	84220	19.019	ug/l	85
23) tert-Butyl Alcohol	5.524	59	77703	94.861	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	252286	20.112	ug/l #	81
25) Chloroform	7.971	83	152090	22.092	ug/l	96
26) Cyclohexane	8.259	56	109922	17.870	ug/l #	87
29) 1,1-Dichloropropene	8.371	75	96909	20.079	ug/l	97
30) 2-Butanone	7.483	43	292899	117.734	ug/l #	90
31) 2,2-Dichloropropane	7.488	77	125803	25.436	ug/l	97
32) 1,1,1-Trichloroethane	8.177	97	133874	24.118	ug/l	93
33) Carbon Tetrachloride	8.365	117	105206	23.355	ug/l	97
34) Benzene	8.606	78	321645	20.890	ug/l #	94
35) Methacrylonitrile	7.777	41	69848	22.192	ug/l	87
36) 1,2-Dichloroethane	8.671	62	125576	24.296	ug/l #	93
37) Trichloroethene	9.353	130	69352	18.390	ug/l	99
38) Methylcyclohexane	9.606	83	103576	17.765	ug/l	92
39) 1,2-Dichloropropane	9.624	63	86630	21.928	ug/l	94
40) Dibromomethane	9.712	93	54843	21.609	ug/l	95
41) Bromodichloromethane	9.888	83	120732	22.256	ug/l	98
42) Vinyl Acetate	6.606	43	1159029	109.456	ug/l #	91

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	130320	23.944	ug/l	96
44) Isopropyl Acetate	8.688	43	226901	23.565	ug/l #	84
45) 1,4-Dioxane	9.694	88	30778	398.535	ug/l #	85
46) Methyl methacrylate	9.682	41	101422	23.053	ug/l	68
47) n-amyl Acetate	12.494	43	188765m	21.739	ug/l	
48) t-1,3-Dichloropropene	10.835	75	119167	20.257	ug/l	100
49) cis-1,3-Dichloropropene	10.318	75	128061	20.590	ug/l #	78
50) 1,1,2-Trichloroethane	11.018	97	77554	22.523	ug/l	95
51) Ethyl methacrylate	10.876	69	127543	19.626	ug/l #	58
52) 1,3-Dichloropropane	11.165	76	140384	22.191	ug/l	99
53) Dibromochloromethane	11.359	129	85023	22.695	ug/l	97
54) 1,2-Dibromoethane	11.471	107	72203	21.026	ug/l	98
55) 2-Chloroethyl vinyl ether	10.165	63	348478	107.234	ug/l	94
56) Bromoform	12.576	173	51918	22.770	ug/l	96
58) 4-Methyl-2-Pentanone	10.447	43	669713	117.699	ug/l #	82
59) 2-Hexanone	11.194	43	485220m	115.008	ug/l	
61) Tetrachloroethene	11.106	164	65975	20.289	ug/l	92
62) Toluene	10.629	91	342711	20.784	ug/l	99
64) Chlorobenzene	11.894	112	209147	20.738	ug/l	92
65) 1,1,1,2-Tetrachloroethane	11.965	131	70800	21.448	ug/l	91
66) Ethyl Benzene	11.965	91	377229	20.871	ug/l	97
67) m/p-Xylenes	12.070	106	270684	40.393	ug/l	99
68) o-Xylene	12.400	106	133413	20.122	ug/l	99
69) Styrene	12.412	104	226469	20.348	ug/l	99
70) Isopropylbenzene	12.694	105	344825	20.478	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.941	83	106712	22.022	ug/l	98
72) 1,2,3-Trichloropropane	12.994	75	100791m	25.420	ug/l	
73) Bromobenzene	12.982	156	79283	21.995	ug/l	92
74) n-propylbenzene	13.035	91	415111	20.880	ug/l	97
75) 2-Chlorotoluene	13.129	91	248430	20.214	ug/l	100
76) 1,3,5-Trimethylbenzene	13.176	105	283659	20.812	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	37750	18.712	ug/l	83
78) 4-Chlorotoluene	13.223	91	247603	20.565	ug/l	98
79) tert-butylbenzene	13.441	119	241862	20.610	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	284284	20.765	ug/l	99
81) sec-Butylbenzene	13.617	105	343862	20.904	ug/l	98
82) p-Isopropyltoluene	13.729	119	281750	21.660	ug/l	99
83) 1,3-Dichlorobenzene	13.735	146	147102	22.665	ug/l	97
84) 1,4-Dichlorobenzene	13.812	146	146492	22.456	ug/l	97
85) n-Butylbenzene	14.059	91	251125	21.135	ug/l	95
86) Hexachloroethane	14.335	117	51823	19.981	ug/l	88
87) 1,2-Dichlorobenzene	14.106	146	145388	22.491	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.717	75	21113	19.417	ug/l	89
89) 1,2,4-Trichlorobenzene	15.841	180	80237	22.542	ug/l	96
90) Hexachlorobutadiene	15.506	225	32112	24.359	ug/l	95
91) Naphthalene	15.641	128	254588	18.815	ug/l	100
92) 1,2,3-Trichlorobenzene	15.841	180	80237	22.542	ug/l	96

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

