

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051324\
 Data File : VN082087.D
 Acq On : 13 May 2024 10:23
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/14/2024
 Supervised By : Mahesh Dadoda 05/14/2024

Quant Time: May 14 11:34:09 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	7.812	128	27851	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	167176	30.000	ug/l	# 0.00
57) Chlorobenzene-d5	11.865	117	145403	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	75889	32.545	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 108.467%			
60) 4-Bromofluorobenzene	12.847	95	71455	29.529	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 98.433%			
63) Toluene-d8	10.565	98	214439	31.055	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.500%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	28287	17.893	ug/l	98
3) Chloromethane	2.360	50	36885	20.118	ug/l	98
4) Vinyl Chloride	2.518	62	35544	20.522	ug/l	91
5) Bromomethane	2.971	94	18848	20.855	ug/l	97
6) Chloroethane	3.124	64	22949	23.399	ug/l	# 84
7) Trichlorofluoromethane	3.506	101	47856	18.883	ug/l	89
8) Diethyl Ether	3.959	74	24147	19.682	ug/l	77
9) 1,1,2-Trichlorotrifluo...	4.377	101	31847	18.310	ug/l	77
10) 1,1-Dichloroethene	4.348	96	31967	18.783	ug/l	87
11) Methyl Iodide	4.595	142	28197	18.138	ug/l	76
12) Methyl Acetate	5.030	43	54901	25.234	ug/l	# 77
13) Acrolein	4.183	56	24038	53.053	ug/l	99
14) Acrylonitrile	5.718	53	112160	115.462	ug/l	97
15) Acetone	4.418	58	24695m	112.724	ug/l	
16) Carbon Disulfide	4.712	76	76836	16.316	ug/l	# 92
17) Allyl chloride	5.024	41	60640	19.906	ug/l	87
18) Methylene Chloride	5.277	84	39265	20.302	ug/l	# 72
19) trans-1,2-Dichloroethene	5.783	96	33858m	19.113	ug/l	
20) Diisopropyl ether	6.671	45	144904	21.946	ug/l	96
21) 1,1-Dichloroethane	6.565	63	75086	21.476	ug/l	94
22) cis-1,2-Dichloroethene	7.489	96	44329	20.489	ug/l	93
23) tert-Butyl Alcohol	5.524	59	41232m	103.026	ug/l	
24) Methyl tert-Butyl Ether	5.789	73	126399m	20.624	ug/l	
25) Chloroform	7.965	83	73016	21.708	ug/l	98
26) Cyclohexane	8.259	56	59014	19.637	ug/l	# 84
29) 1,1-Dichloropropene	8.371	75	47663	19.151	ug/l	95
30) 2-Butanone	7.489	43	141693	110.445	ug/l	93
31) 2,2-Dichloropropane	7.483	77	61678	24.182	ug/l	# 70
32) 1,1,1-Trichloroethane	8.171	97	57666	20.146	ug/l	# 93
33) Carbon Tetrachloride	8.365	117	45252	19.480	ug/l	# 84
34) Benzene	8.612	78	163950	20.649	ug/l	96
35) Methacrylonitrile	7.777	41	33108	20.398	ug/l	94
36) 1,2-Dichloroethane	8.665	62	54850	20.579	ug/l	99
37) Trichloroethene	9.353	130	33292	17.119	ug/l	99
38) Methylcyclohexane	9.600	83	55465	18.448	ug/l	95
39) 1,2-Dichloropropane	9.624	63	43048	21.130	ug/l	99
40) Dibromomethane	9.712	93	26868	20.528	ug/l	83
41) Bromodichloromethane	9.888	83	58425	20.885	ug/l	# 94
42) Vinyl Acetate	6.606	43	618594	113.284	ug/l	# 91

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	58721	20.921	ug/l	98
44) Isopropyl Acetate	8.688	43	119377	24.042	ug/l #	83
45) 1,4-Dioxane	9.694	88	16318	409.739	ug/l #	93
46) Methyl methacrylate	9.683	41	48436	21.349	ug/l	83
47) n-amyl Acetate	12.494	43	87108m	19.454	ug/l	
48) t-1,3-Dichloropropene	10.835	75	59786	19.708	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	65065	20.286	ug/l #	84
50) 1,1,2-Trichloroethane	11.018	97	37709	21.237	ug/l	91
51) Ethyl methacrylate	10.877	69	64338	19.198	ug/l	74
52) 1,3-Dichloropropane	11.165	76	67548	20.706	ug/l	98
53) Dibromochloromethane	11.365	129	35555	18.404	ug/l	94
54) 1,2-Dibromoethane	11.471	107	35191	19.872	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	173626	103.606	ug/l	95
56) Bromoform	12.582	173	19202	16.331	ug/l #	92
58) 4-Methyl-2-Pentanone	10.447	43	316490	112.105	ug/l #	85
59) 2-Hexanone	11.200	43	232514	111.075	ug/l #	88
61) Tetrachloroethene	11.100	164	28958	17.948	ug/l	87
62) Toluene	10.630	91	164680	20.129	ug/l	99
64) Chlorobenzene	11.894	112	97406	19.466	ug/l	97
65) 1,1,1,2-Tetrachloroethane	11.959	131	31148	19.018	ug/l	92
66) Ethyl Benzene	11.965	91	174550	19.464	ug/l	98
67) m/p-Xylenes	12.071	106	129730	39.018	ug/l	98
68) o-Xylene	12.400	106	61139	18.586	ug/l	94
69) Styrene	12.412	104	106065	19.207	ug/l	97
70) Isopropylbenzene	12.694	105	157666	18.872	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	53000	22.044	ug/l #	94
72) 1,2,3-Trichloropropane	12.994	75	45857	23.310	ug/l	92
73) Bromobenzene	12.982	156	34919	19.525	ug/l	80
74) n-propylbenzene	13.035	91	195311	19.801	ug/l	98
75) 2-Chlorotoluene	13.124	91	114897	18.843	ug/l	100
76) 1,3,5-Trimethylbenzene	13.176	105	130265	19.263	ug/l	99
77) t-1,4-Dichloro-2-butene	12.735	75	19113	19.095	ug/l	83
78) 4-Chlorotoluene	13.224	91	113817	19.053	ug/l	98
79) tert-butylbenzene	13.441	119	105018	18.036	ug/l	94
80) 1,2,4-Trimethylbenzene	13.482	105	128128	18.863	ug/l	97
81) sec-Butylbenzene	13.618	105	153363	18.790	ug/l	98
82) p-Isopropyltoluene	13.729	119	122943	19.049	ug/l	97
83) 1,3-Dichlorobenzene	13.729	146	61783	19.186	ug/l	100
84) 1,4-Dichlorobenzene	13.812	146	62745	19.385	ug/l	98
85) n-Butylbenzene	14.059	91	115318	19.561	ug/l	94
86) Hexachloroethane	14.335	117	23792	18.489	ug/l	77
87) 1,2-Dichlorobenzene	14.106	146	62796	19.579	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.712	75	9667	17.918	ug/l	89
89) 1,2,4-Trichlorobenzene	15.841	180	32606	18.463	ug/l	94
90) Hexachlorobutadiene	15.506	225	10843	16.578	ug/l	98
91) Naphthalene	15.641	128	122089	18.186	ug/l	98
92) 1,2,3-Trichlorobenzene	15.841	180	32606	18.463	ug/l	94

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

