

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050824\
 Data File : VN082038.D
 Acq On : 08 May 2024 19:37
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/09/2024
 Supervised By : Mahesh Dadoda 05/09/2024

Quant Time: May 09 01:06:18 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 27 04:37:27 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.824	128	26750	30.000	ug/l	0.01
28) 1,4-Difluorobenzene	9.106	114	162627	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	144693	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	71692	32.011	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 106.700%			
60) 4-Bromofluorobenzene	12.847	95	70450	29.257	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.533%			
63) Toluene-d8	10.571	98	208394	30.327	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.100%			
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	31145	20.511	ug/l	85
3) Chloromethane	2.359	50	36901	20.955	ug/l	99
4) Vinyl Chloride	2.518	62	36754	22.094	ug/l	100
5) Bromomethane	2.959	94	15920	18.340	ug/l	95
6) Chloroethane	3.118	64	23757	25.220	ug/l	96
7) Trichlorofluoromethane	3.501	101	50227	20.634	ug/l	87
8) Diethyl Ether	3.965	74	24688	20.951	ug/l	84
9) 1,1,2-Trichlorotrifluo...	4.365	101	32251m	19.326	ug/l	
10) 1,1-Dichloroethene	4.348	96	33403m	20.460	ug/l	
11) Methyl Iodide	4.589	142	28843	19.331	ug/l	89
12) Methyl Acetate	5.030	43	54915	26.863	ug/l #	77
13) Acrolein	4.189	56	26206	60.317	ug/l	99
14) Acrylonitrile	5.718	53	112387	120.458	ug/l #	89
15) Acetone	4.430	58	24899m	119.094	ug/l	
16) Carbon Disulfide	4.718	76	79408	17.556	ug/l	97
17) Allyl chloride	5.030	41	61777	21.552	ug/l	81
18) Methylene Chloride	5.277	84	39888	21.473	ug/l	87
19) trans-1,2-Dichloroethene	5.795	96	32897	19.358	ug/l	95
20) Diisopropyl ether	6.677	45	143766	22.669	ug/l #	93
21) 1,1-Dichloroethane	6.571	63	75819	22.578	ug/l	97
22) cis-1,2-Dichloroethene	7.489	96	46151	22.286	ug/l	96
23) tert-Butyl Alcohol	5.524	59	41653	108.384	ug/l #	100
24) Methyl tert-Butyl Ether	5.800	73	125075	21.250	ug/l #	91
25) Chloroform	7.971	83	74227	22.976	ug/l	94
26) Cyclohexane	8.259	56	58973	20.309	ug/l #	89
29) 1,1-Dichloropropene	8.371	75	48459	20.015	ug/l	96
30) 2-Butanone	7.483	43	143203	114.744	ug/l	94
31) 2,2-Dichloropropane	7.489	77	56147	22.630	ug/l	98
32) 1,1,1-Trichloroethane	8.171	97	57002	20.471	ug/l #	90
33) Carbon Tetrachloride	8.365	117	45879	20.302	ug/l	96
34) Benzene	8.612	78	164935	21.354	ug/l	95
35) Methacrylonitrile	7.783	41	34926	22.120	ug/l	83
36) 1,2-Dichloroethane	8.677	62	56129m	21.647	ug/l	
37) Trichloroethene	9.353	130	32383	17.117	ug/l	85
38) Methylcyclohexane	9.600	83	57090	19.519	ug/l	96
39) 1,2-Dichloropropane	9.630	63	45384	22.899	ug/l	93
40) Dibromomethane	9.706	93	28178	22.132	ug/l	82
41) Bromodichloromethane	9.894	83	57776	21.231	ug/l #	96
42) Vinyl Acetate	6.606	43	577770	108.767	ug/l	95

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.565	43	54143	19.898	ug/l	94
44) Isopropyl Acetate	8.688	43	109244	22.614	ug/l	90
45) 1,4-Dioxane	9.694	88	17255	445.386	ug/l #	92
46) Methyl methacrylate	9.682	41	51619	23.389	ug/l	79
47) n-amyl Acetate	12.494	43	93352	21.425	ug/l	90
48) t-1,3-Dichloropropene	10.835	75	59748	20.246	ug/l	98
49) cis-1,3-Dichloropropene	10.312	75	67006	21.476	ug/l #	81
50) 1,1,2-Trichloroethane	11.018	97	39315	22.760	ug/l	96
51) Ethyl methacrylate	10.877	69	68006	20.860	ug/l	72
52) 1,3-Dichloropropane	11.165	76	69147	21.789	ug/l	99
53) Dibromochloromethane	11.365	129	37303	19.849	ug/l	94
54) 1,2-Dibromoethane	11.471	107	37020	21.490	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	169948	104.248	ug/l	95
56) Bromoform	12.582	173	20790	18.176	ug/l #	97
58) 4-Methyl-2-Pentanone	10.447	43	323126	115.012	ug/l #	87
59) 2-Hexanone	11.200	43	240348m	115.381	ug/l	
61) Tetrachloroethene	11.106	164	26506	16.509	ug/l	92
62) Toluene	10.629	91	166501	20.452	ug/l	96
64) Chlorobenzene	11.894	112	104556	20.997	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.959	131	32190	19.751	ug/l	93
66) Ethyl Benzene	11.965	91	186040	20.847	ug/l	97
67) m/p-Xylenes	12.076	106	134052	40.516	ug/l	97
68) o-Xylene	12.400	106	69000	21.078	ug/l	96
69) Styrene	12.412	104	113108	20.583	ug/l	100
70) Isopropylbenzene	12.700	105	169595	20.399	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.941	83	59251	24.765	ug/l	96
72) 1,2,3-Trichloropropane	12.994	75	49440m	22.103	ug/l	
73) Bromobenzene	12.982	156	34798	19.553	ug/l	71
74) n-propylbenzene	13.035	91	205914	20.993	ug/l	98
75) 2-Chlorotoluene	13.123	91	121365	20.001	ug/l	98
76) 1,3,5-Trimethylbenzene	13.176	105	132870	19.745	ug/l	100
77) t-1,4-Dichloro-2-butene	12.741	75	19937	20.026	ug/l	95
78) 4-Chlorotoluene	13.223	91	120777	20.317	ug/l	98
79) tert-butylbenzene	13.441	119	115639	19.958	ug/l	97
80) 1,2,4-Trimethylbenzene	13.488	105	137083	20.280	ug/l	99
81) sec-Butylbenzene	13.618	105	170901	21.042	ug/l	95
82) p-Isopropyltoluene	13.729	119	129512	20.166	ug/l	97
83) 1,3-Dichlorobenzene	13.735	146	63204	19.723	ug/l	96
84) 1,4-Dichlorobenzene	13.818	146	64381	19.988	ug/l	96
85) n-Butylbenzene	14.059	91	120487	20.538	ug/l	98
86) Hexachloroethane	14.341	117	25313	19.767	ug/l	75
87) 1,2-Dichlorobenzene	14.106	146	64039	20.064	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.729	75	11148	20.765	ug/l #	79
89) 1,2,4-Trichlorobenzene	15.841	180	32569	18.532	ug/l	98
90) Hexachlorobutadiene	15.506	225	10210	15.687	ug/l	98
91) Naphthalene	15.641	128	127102	19.025	ug/l	98
92) 1,2,3-Trichlorobenzene	15.841	180	32569	18.532	ug/l	98

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

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