

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN082322\
 Data File : VN074059.D
 Acq On : 23 Aug 2022 10:20
 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 :Krupa Patel 08/24/2022
 Supervised By :Mahesh Dadoda 08/24/2022

Quant Time: Aug 24 01:19:56 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072722W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 27 18:07:26 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.581	128	75660	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.898	114	414504	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.686	117	375076	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.369	65	184325	28.177	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	93.933%		
60) 4-Bromofluorobenzene	12.669	95	205254	30.906	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	103.033%		
63) Toluene-d8	10.381	98	620110	29.362	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.867%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.052	85	102536	19.938	ug/l	99
3) Chloromethane	2.269	50	121437	17.860	ug/l	95
4) Vinyl Chloride	2.410	62	140186	16.798	ug/l	99
5) Bromomethane	2.810	94	81172	19.146	ug/l	100
6) Chloroethane	2.975	64	89566	15.841	ug/l	99
7) Trichlorofluoromethane	3.316	101	167530	20.410	ug/l	97
8) Diethyl Ether	3.769	74	65362	19.789	ug/l	97
9) 1,1,2-Trichlorotrifluo...	4.140	101	100293	20.267	ug/l #	47
10) 1,1-Dichloroethene	4.116	96	94338	19.916	ug/l	94
11) Methyl Iodide	4.352	142	100727	18.435	ug/l	86
12) Methyl Acetate	4.775	43	161630	20.078	ug/l	94
13) Acrolein	3.981	56	89531	63.265	ug/l	97
14) Acrylonitrile	5.469	53	356035	95.827	ug/l	97
15) Acetone	4.222	58	92499	89.553	ug/l	73
16) Carbon Disulfide	4.463	76	238756	18.445	ug/l	96
17) Allyl chloride	4.763	41	151562	19.183	ug/l	84
18) Methylene Chloride	5.010	84	116976	19.489	ug/l	95
19) trans-1,2-Dichloroethene	5.516	96	102301	19.479	ug/l	95
20) Diisopropyl ether	6.410	45	319921	18.614	ug/l #	93
21) 1,1-Dichloroethane	6.304	63	194937	19.220	ug/l	95
22) cis-1,2-Dichloroethene	7.245	96	125746	19.903	ug/l	93
23) tert-Butyl Alcohol	5.281	59	123306	93.909	ug/l #	100
24) Methyl tert-Butyl Ether	5.528	73	333647m	19.987	ug/l	
25) Chloroform	7.745	83	200067	19.111	ug/l	98
26) Cyclohexane	8.022	56	162457	18.570	ug/l #	97
29) 1,1-Dichloropropene	8.145	75	139164	17.968	ug/l	98
30) 2-Butanone	7.257	43	467501	87.318	ug/l	99
31) 2,2-Dichloropropane	7.245	77	155010	19.181	ug/l	99
32) 1,1,1-Trichloroethane	7.940	97	174041	19.415	ug/l	99
33) Carbon Tetrachloride	8.134	117	154514	20.101	ug/l	97
34) Benzene	8.387	78	455657	18.181	ug/l	98
35) Methacrylonitrile	7.563	41	79860	18.375	ug/l	93
36) 1,2-Dichloroethane	8.463	62	153490	18.572	ug/l #	95
37) Trichloroethene	9.151	130	119917	19.449	ug/l	98
38) Methylcyclohexane	9.392	83	177346	18.446	ug/l	97
39) 1,2-Dichloropropane	9.428	63	114802	18.157	ug/l	98
40) Dibromomethane	9.510	93	81504	18.997	ug/l	85
41) Bromodichloromethane	9.698	83	162384	19.335	ug/l	98
42) Vinyl Acetate	6.346	43	1379250	89.400	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.334	43	164699	16.204	ug/l	100
44) Isopropyl Acetate	8.492	43	245946	17.401	ug/l	92
45) 1,4-Dioxane	9.504	88	61920	367.400	ug/l	93
46) Methyl methacrylate	9.498	41	110116	17.421	ug/l	81
47) n-amyl Acetate	12.327	43	197959	17.567	ug/l	93
48) t-1,3-Dichloropropene	10.657	75	158900	18.378	ug/l	100
49) cis-1,3-Dichloropropene	10.128	75	180346	18.785	ug/l #	83
50) 1,1,2-Trichloroethane	10.839	97	119250	18.527	ug/l	98
51) Ethyl methacrylate	10.704	69	177517	18.344	ug/l	79
52) 1,3-Dichloropropane	10.986	76	196114	18.076	ug/l	99
53) Dibromochloromethane	11.175	129	131512	20.161	ug/l	100
54) 1,2-Dibromoethane	11.286	107	124189	18.932	ug/l	97
55) 2-Chloroethyl vinyl ether	9.981	63	460451	106.089	ug/l	98
56) Bromoform	12.398	173	106807	20.836	ug/l #	100
58) 4-Methyl-2-Pentanone	10.269	43	890976	91.868	ug/l	93
59) 2-Hexanone	11.028	43	687049	91.974	ug/l	92
61) Tetrachloroethene	10.916	164	108580	18.899	ug/l	88
62) Toluene	10.439	91	499820	19.163	ug/l	98
64) Chlorobenzene	11.710	112	310590	19.930	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.780	131	121869	21.067	ug/l	100
66) Ethyl Benzene	11.786	91	531888	19.074	ug/l	98
67) m/p-Xylenes	11.892	106	422821	39.672	ug/l	96
68) o-Xylene	12.222	106	207393	19.591	ug/l	96
69) Styrene	12.233	104	344021	19.717	ug/l	95
70) Isopropylbenzene	12.516	105	531217	19.628	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.769	83	187578	19.711	ug/l	99
72) 1,2,3-Trichloropropane	12.822	75	129186m	16.254	ug/l	
73) Bromobenzene	12.798	156	135454	20.148	ug/l	95
74) n-propylbenzene	12.857	91	604921	19.206	ug/l	98
75) 2-Chlorotoluene	12.945	91	366590	19.416	ug/l	98
76) 1,3,5-Trimethylbenzene	12.998	105	449871	19.845	ug/l	94
77) t-1,4-Dichloro-2-butene	12.569	75	55465	19.149	ug/l	92
78) 4-Chlorotoluene	13.045	91	360230	19.861	ug/l	99
79) tert-butylbenzene	13.263	119	401285	20.475	ug/l	91
80) 1,2,4-Trimethylbenzene	13.304	105	443727m	19.761	ug/l	
81) sec-Butylbenzene	13.439	105	540703	19.214	ug/l	96
82) p-Isopropyltoluene	13.557	119	462978	20.039	ug/l	95
83) 1,3-Dichlorobenzene	13.551	146	248235	20.171	ug/l	98
84) 1,4-Dichlorobenzene	13.633	146	244321	20.581	ug/l	96
85) n-Butylbenzene	13.880	91	358767	19.156	ug/l	96
86) Hexachloroethane	14.151	117	86983	20.529	ug/l	72
87) 1,2-Dichlorobenzene	13.927	146	254056	20.419	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.539	75	43558	20.955	ug/l #	76
89) 1,2,4-Trichlorobenzene	15.198	180	152087	22.209	ug/l	95
90) Hexachlorobutadiene	15.298	225	79257	22.852	ug/l	97
91) Naphthalene	15.433	128	489540	21.772	ug/l	99
92) 1,2,3-Trichlorobenzene	15.627	180	155827	22.152	ug/l	97

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

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