

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062422\
 Data File : VN073078.D
 Acq On : 24 Jun 2022 12:45
 Operator : JC\MD
 Sample : VN0624WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0624WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/25/2022
 Supervised By : Mahesh Dadoda 06/28/2022

Quant Time: Jun 24 23:33:37 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062322W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jun 24 04:54:59 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.586	128	40520	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.898	114	213475	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.680	117	197814	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.369	65	116757	29.891	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.633%		
60) 4-Bromofluorobenzene	12.668	95	110780	29.271	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	97.567%		
63) Toluene-d8	10.374	98	318884	29.769	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.233%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	55949	17.502	ug/l	96
3) Chloromethane	2.269	50	57789	19.025	ug/l	93
4) Vinyl Chloride	2.410	62	45955	16.903	ug/l	99
5) Bromomethane	2.804	94	22282	24.890	ug/l	94
6) Chloroethane	2.969	64	30411	18.129	ug/l	95
7) Trichlorofluoromethane	3.316	101	81487	16.512	ug/l	94
8) Diethyl Ether	3.763	74	39853	19.732	ug/l	87
9) 1,1,2-Trichlorotrifluo...	4.140	101	45949	16.854	ug/l #	68
10) 1,1-Dichloroethene	4.116	96	45284	16.229	ug/l	100
11) Methyl Iodide	4.351	142	43065	16.180	ug/l	92
12) Methyl Acetate	4.781	43	112510	19.363	ug/l	91
13) Acrolein	3.987	56	81120	138.508	ug/l	95
14) Acrylonitrile	5.475	53	225133	101.700	ug/l	98
15) Acetone	4.222	58	60389	98.898	ug/l	94
16) Carbon Disulfide	4.463	76	120746	16.411	ug/l	96
17) Allyl chloride	4.757	41	104145	19.664	ug/l	81
18) Methylene Chloride	5.016	84	63974	19.225	ug/l	93
19) trans-1,2-Dichloroethene	5.510	96	52510	17.834	ug/l	92
20) Diisopropyl ether	6.416	45	214637	19.262	ug/l	92
21) 1,1-Dichloroethane	6.310	63	104604	17.891	ug/l	99
22) cis-1,2-Dichloroethene	7.245	96	64998	18.564	ug/l	97
23) tert-Butyl Alcohol	5.292	59	89766	99.309	ug/l #	100
24) Methyl tert-Butyl Ether	5.534	73	203015	19.505	ug/l	100
25) Chloroform	7.745	83	109608	18.839	ug/l	99
26) Cyclohexane	8.022	56	82736	16.163	ug/l #	94
29) 1,1-Dichloropropene	8.145	75	69787	18.081	ug/l	97
30) 2-Butanone	7.257	43	327673	110.236	ug/l	94
31) 2,2-Dichloropropane	7.245	77	79012	41.822	ug/l	100
32) 1,1,1-Trichloroethane	7.945	97	88575	18.677	ug/l	98
33) Carbon Tetrachloride	8.133	117	71258	17.771	ug/l	99
34) Benzene	8.386	78	241308	20.087	ug/l #	94
35) Methacrylonitrile	7.563	41	63646	24.068	ug/l	89
36) 1,2-Dichloroethane	8.463	62	93586	21.019	ug/l	99
37) Trichloroethene	9.145	130	56833	19.010	ug/l	98
38) Methylcyclohexane	9.392	83	85586	18.723	ug/l	92
39) 1,2-Dichloropropane	9.422	63	62358	20.074	ug/l	99
40) Dibromomethane	9.510	93	43795	20.835	ug/l	94
41) Bromodichloromethane	9.698	83	86841	20.534	ug/l	98
42) Vinyl Acetate	6.351	43	1029958	112.067	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.333	43	132954	23.750	ug/l	98
44) Isopropyl Acetate	8.492	43	193831	22.422	ug/l	96
45) 1,4-Dioxane	9.498	88	35797	464.809	ug/l	92
46) Methyl methacrylate	9.492	41	82104	20.873	ug/l	83
47) n-amyl Acetate	12.327	43	145994	21.074	ug/l	98
48) t-1,3-Dichloropropene	10.657	75	93073	23.530	ug/l	95
49) cis-1,3-Dichloropropene	10.122	75	98314	22.953	ug/l	95
50) 1,1,2-Trichloroethane	10.833	97	64840	21.293	ug/l	99
51) Ethyl methacrylate	10.698	69	109683	21.268	ug/l	91
52) 1,3-Dichloropropane	10.980	76	110944	21.181	ug/l	99
53) Dibromochloromethane	11.174	129	64872	20.489	ug/l	100
54) 1,2-Dibromoethane	11.280	107	68272	21.345	ug/l	99
55) 2-Chloroethyl vinyl ether	9.974	63	245961	111.656	ug/l	99
56) Bromoform	12.392	173	45622	19.671	ug/l #	99
58) 4-Methyl-2-Pentanone	10.269	43	614800	106.856	ug/l	97
59) 2-Hexanone	11.021	43	473724	107.795	ug/l	98
61) Tetrachloroethene	10.910	164	48439	18.939	ug/l	91
62) Toluene	10.439	91	249491	18.973	ug/l	97
64) Chlorobenzene	11.704	112	153555	19.408	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.780	131	59911	19.933	ug/l	100
66) Ethyl Benzene	11.780	91	272727	18.826	ug/l	99
67) m/p-Xylenes	11.886	106	208478	38.389	ug/l	99
68) o-Xylene	12.216	106	107982	19.690	ug/l	98
69) Styrene	12.227	104	169468	19.305	ug/l	98
70) Isopropylbenzene	12.515	105	258358	18.409	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.763	83	103198	21.298	ug/l	98
72) 1,2,3-Trichloropropane	12.815	75	82477m	22.199	ug/l	
73) Bromobenzene	12.798	156	63070	19.270	ug/l	91
74) n-propylbenzene	12.857	91	287415	18.075	ug/l	99
75) 2-Chlorotoluene	12.945	91	187261	18.831	ug/l	96
76) 1,3,5-Trimethylbenzene	12.998	105	220721	18.923	ug/l	98
77) t-1,4-Dichloro-2-butene	12.563	75	31015	26.467	ug/l	96
78) 4-Chlorotoluene	13.039	91	180362	18.853	ug/l	96
79) tert-butylbenzene	13.257	119	189510	18.377	ug/l	98
80) 1,2,4-Trimethylbenzene	13.439	105	252017	22.022	ug/l	100
81) sec-Butylbenzene	13.439	105	252017	18.130	ug/l	99
82) p-Isopropyltoluene	13.551	119	206799	18.317	ug/l	98
83) 1,3-Dichlorobenzene	13.551	146	111826	19.410	ug/l	98
84) 1,4-Dichlorobenzene	13.627	146	110476	19.189	ug/l	98
85) n-Butylbenzene	13.880	91	161167	17.543	ug/l	96
86) Hexachloroethane	14.145	117	38803	17.554	ug/l	96
87) 1,2-Dichlorobenzene	13.921	146	116311	19.296	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.539	75	24505	19.850	ug/l	95
89) 1,2,4-Trichlorobenzene	15.192	180	59077	18.653	ug/l	96
90) Hexachlorobutadiene	15.292	225	22666	17.751	ug/l	95
91) Naphthalene	15.433	128	243558	19.707	ug/l	99
92) 1,2,3-Trichlorobenzene	15.621	180	60006	18.622	ug/l	100

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

