

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080822\
 Data File : VN073766.D
 Acq On : 08 Aug 2022 13:08
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Quant Time: Aug 09 00:24:37 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

Manual Integrations APPROVED

Reviewed By :John
 Carlone
 08/09/2022

Supervised By :Mahesh
 Dadoda
 08/09/2022

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

Internal Standards						
1) Bromochloromethane	7.587	128	55336	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.904	114	297188	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.686	117	277093	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.369	65	142658	29.817	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.400%		
60) 4-Bromofluorobenzene	12.674	95	141278	28.795	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	95.967%		
63) Toluene-d8	10.380	98	463362	29.698	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.000%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.046	85	80160	21.312	ug/l	99
3) Chloromethane	2.269	50	95612	19.227	ug/l	97
4) Vinyl Chloride	2.405	62	121350	19.882	ug/l	96
5) Bromomethane	2.799	94	74770	24.114	ug/l	97
6) Chloroethane	2.963	64	77927	18.845	ug/l	99
7) Trichlorofluoromethane	3.310	101	162518	27.071	ug/l	94
8) Diethyl Ether	3.769	74	48577	20.109	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.140	101	76447	21.122	ug/l #	64
10) 1,1-Dichloroethene	4.110	96	71885	20.750	ug/l	87
11) Methyl Iodide	4.346	142	64883	16.236	ug/l	91
12) Methyl Acetate	4.775	43	122539	20.812	ug/l	99
13) Acrolein	3.981	56	138745	134.049	ug/l	98
14) Acrylonitrile	5.475	53	275094	101.236	ug/l	99
15) Acetone	4.222	58	80157	106.107	ug/l	84
16) Carbon Disulfide	4.451	76	181976	19.222	ug/l	98
17) Allyl chloride	4.763	41	115118	19.921	ug/l	86
18) Methylene Chloride	5.016	84	88678m	20.201	ug/l	
19) trans-1,2-Dichloroethene	5.516	96	77167	20.090	ug/l	98
20) Diisopropyl ether	6.410	45	245322	19.516	ug/l	97
21) 1,1-Dichloroethane	6.304	63	148332	19.996	ug/l	98
22) cis-1,2-Dichloroethene	7.245	96	95387	20.643	ug/l	94
23) tert-Butyl Alcohol	5.287	59	99158	103.255	ug/l #	100
24) Methyl tert-Butyl Ether	5.534	73	257278	21.073	ug/l	93
25) Chloroform	7.745	83	156722	20.469	ug/l	97
26) Cyclohexane	8.022	56	123438	19.292	ug/l #	95
29) 1,1-Dichloropropene	8.151	75	108180	19.482	ug/l	100
30) 2-Butanone	7.263	43	384597	100.190	ug/l	98
31) 2,2-Dichloropropane	7.245	77	121021	20.886	ug/l	99
32) 1,1,1-Trichloroethane	7.939	97	132580	20.628	ug/l	99
33) Carbon Tetrachloride	8.134	117	112931	20.491	ug/l	95
34) Benzene	8.392	78	356683	19.850	ug/l	98
35) Methacrylonitrile	7.563	41	57416	18.426	ug/l	94
36) 1,2-Dichloroethane	8.463	62	115857	19.553	ug/l #	93
37) Trichloroethene	9.151	130	88084	19.925	ug/l	99
38) Methylcyclohexane	9.392	83	134092	19.453	ug/l	97
39) 1,2-Dichloropropane	9.428	63	87676	19.341	ug/l	96
40) Dibromomethane	9.516	93	62354	20.270	ug/l	88
41) Bromodichloromethane	9.704	83	121111	20.113	ug/l	93
42) Vinyl Acetate	6.351	43	1079329	97.577	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.334	43	130490	17.906	ug/l	95
44) Isopropyl Acetate	8.498	43	197750	19.514	ug/l	95
45) 1,4-Dioxane	9.504	88	53190	440.185	ug/l	97
46) Methyl methacrylate	9.498	41	85402	18.845	ug/l	87
47) n-amyl Acetate	12.333	43	149347	18.485	ug/l	93
48) t-1,3-Dichloropropene	10.663	75	119756	19.318	ug/l	98
49) cis-1,3-Dichloropropene	10.128	75	134990	19.612	ug/l #	86
50) 1,1,2-Trichloroethane	10.839	97	95592	20.714	ug/l	98
51) Ethyl methacrylate	10.704	69	132757	19.134	ug/l	84
52) 1,3-Dichloropropane	10.986	76	153915	19.787	ug/l	99
53) Dibromochloromethane	11.180	129	95108	20.336	ug/l	99
54) 1,2-Dibromoethane	11.286	107	94261	20.043	ug/l	98
55) 2-Chloroethyl vinyl ether	9.980	63	284029	91.274	ug/l	98
56) Bromoform	12.398	173	73963	20.124	ug/l #	99
58) 4-Methyl-2-Pentanone	10.269	43	722217	100.800	ug/l	94
59) 2-Hexanone	11.027	43	554519	100.481	ug/l	93
61) Tetrachloroethene	10.916	164	87860	20.700	ug/l	92
62) Toluene	10.445	91	392906	20.390	ug/l	98
64) Chlorobenzene	11.710	112	236156	20.512	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.780	131	88243	20.648	ug/l	98
66) Ethyl Benzene	11.786	91	406765	19.745	ug/l	98
67) m/p-Xylenes	11.892	106	321319	40.809	ug/l	98
68) o-Xylene	12.222	106	158598	20.280	ug/l	97
69) Styrene	12.233	104	259079	20.099	ug/l	96
70) Isopropylbenzene	12.522	105	409478	20.479	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.769	83	145525	20.699	ug/l	97
72) 1,2,3-Trichloropropane	12.821	75	126627m	21.566	ug/l	
73) Bromobenzene	12.804	156	101272	20.391	ug/l	95
74) n-propylbenzene	12.863	91	464865	19.978	ug/l	98
75) 2-Chlorotoluene	12.945	91	281291	20.167	ug/l	99
76) 1,3,5-Trimethylbenzene	12.998	105	340859	20.353	ug/l	94
77) t-1,4-Dichloro-2-butene	12.569	75	40776	19.056	ug/l	93
78) 4-Chlorotoluene	13.045	91	269587	20.119	ug/l	100
79) tert-butylbenzene	13.263	119	291855	20.157	ug/l	94
80) 1,2,4-Trimethylbenzene	13.310	105	339888m	20.489	ug/l	
81) sec-Butylbenzene	13.439	105	410249	19.733	ug/l	97
82) p-Isopropyltoluene	13.557	119	338300	19.820	ug/l	96
83) 1,3-Dichlorobenzene	13.557	146	186642	20.529	ug/l	97
84) 1,4-Dichlorobenzene	13.633	146	179032	20.414	ug/l	97
85) n-Butylbenzene	13.880	91	253189	18.300	ug/l	96
86) Hexachloroethane	14.151	117	62176	19.863	ug/l	77
87) 1,2-Dichlorobenzene	13.927	146	193360	21.036	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.539	75	31084	20.242	ug/l #	75
89) 1,2,4-Trichlorobenzene	15.198	180	99342	19.637	ug/l	98
90) Hexachlorobutadiene	15.304	225	53413	20.846	ug/l	96
91) Naphthalene	15.433	128	331349	19.947	ug/l	99
92) 1,2,3-Trichlorobenzene	15.627	180	108433	20.865	ug/l	98

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

