

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081922\
 Data File : VN074019.D
 Acq On : 19 Aug 2022 11:34
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By :Krupa Patel 08/22/2022
 Supervised By :Mahesh Dadoda 08/22/2022

Quant Time: Aug 20 02:43:26 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	75867	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.904	114	417584	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.680	117	375436	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.369	65	186222	28.389	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	94.633%		
60) 4-Bromofluorobenzene	12.669	95	204212	30.719	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	102.400%		
63) Toluene-d8	10.380	98	624126	29.523	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.400%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.046	85	102656	19.907	ug/l	99
3) Chloromethane	2.269	50	116201	17.043	ug/l	94
4) Vinyl Chloride	2.405	62	135806	16.229	ug/l	99
5) Bromomethane	2.805	94	80327	18.895	ug/l	98
6) Chloroethane	2.963	64	86956	15.338	ug/l	94
7) Trichlorofluoromethane	3.316	101	169249	20.563	ug/l	97
8) Diethyl Ether	3.769	74	60483	18.262	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.146	101	98403	19.831	ug/l #	59
10) 1,1-Dichloroethene	4.110	96	91246	19.211	ug/l	91
11) Methyl Iodide	4.346	142	92094	16.809	ug/l	89
12) Methyl Acetate	4.769	43	147920	18.324	ug/l	97
13) Acrolein	3.981	56	141156	99.472	ug/l	97
14) Acrylonitrile	5.469	53	325816	87.454	ug/l	98
15) Acetone	4.216	58	86083	83.114	ug/l	87
16) Carbon Disulfide	4.457	76	215397	16.595	ug/l	99
17) Allyl chloride	4.757	41	138078	17.428	ug/l	86
18) Methylene Chloride	5.010	84	112659	18.719	ug/l	96
19) trans-1,2-Dichloroethene	5.516	96	99382	18.872	ug/l	91
20) Diisopropyl ether	6.404	45	300582	17.441	ug/l	97
21) 1,1-Dichloroethane	6.304	63	180561	17.754	ug/l	96
22) cis-1,2-Dichloroethene	7.245	96	121114	19.118	ug/l	94
23) tert-Butyl Alcohol	5.287	59	127279	96.671	ug/l #	100
24) Methyl tert-Butyl Ether	5.528	73	326166	19.486	ug/l #	90
25) Chloroform	7.745	83	196048	18.676	ug/l	98
26) Cyclohexane	8.022	56	153512	17.500	ug/l #	92
29) 1,1-Dichloropropene	8.151	75	140263	17.977	ug/l	99
30) 2-Butanone	7.257	43	443074	82.145	ug/l	98
31) 2,2-Dichloropropane	7.245	77	159999	19.652	ug/l	99
32) 1,1,1-Trichloroethane	7.939	97	171800	19.023	ug/l	97
33) Carbon Tetrachloride	8.134	117	149926	19.360	ug/l	97
34) Benzene	8.386	78	438501	17.367	ug/l	97
35) Methacrylonitrile	7.563	41	76548	17.483	ug/l	93
36) 1,2-Dichloroethane	8.463	62	147132	17.672	ug/l #	94
37) Trichloroethene	9.145	130	118626	19.097	ug/l	90
38) Methylcyclohexane	9.392	83	176495	18.222	ug/l	97
39) 1,2-Dichloropropane	9.428	63	107931	16.944	ug/l	98
40) Dibromomethane	9.510	93	79147	18.311	ug/l	81
41) Bromodichloromethane	9.698	83	151555	17.912	ug/l	97
42) Vinyl Acetate	6.351	43	1298730	83.560	ug/l #	94

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.334	43	167476	16.356	ug/l #	82
44) Isopropyl Acetate	8.492	43	244569	17.175	ug/l	94
45) 1,4-Dioxane	9.504	88	64352	379.014	ug/l #	96
46) Methyl methacrylate	9.498	41	105079	16.502	ug/l	83
47) n-amyl Acetate	12.327	43	195969	17.263	ug/l	93
48) t-1,3-Dichloropropene	10.663	75	155271	17.825	ug/l	98
49) cis-1,3-Dichloropropene	10.128	75	173395	17.928	ug/l #	84
50) 1,1,2-Trichloroethane	10.839	97	118145	18.220	ug/l	97
51) Ethyl methacrylate	10.698	69	174588	17.909	ug/l	80
52) 1,3-Dichloropropane	10.986	76	195190	17.859	ug/l	98
53) Dibromochloromethane	11.180	129	127040	19.332	ug/l	97
54) 1,2-Dibromoethane	11.286	107	122248	18.499	ug/l	97
55) 2-Chloroethyl vinyl ether	9.980	63	429784	98.293	ug/l	97
56) Bromoform	12.398	173	99200	19.209	ug/l #	99
58) 4-Methyl-2-Pentanone	10.269	43	861659	88.760	ug/l	93
59) 2-Hexanone	11.027	43	664426	88.860	ug/l	91
61) Tetrachloroethene	10.916	164	109728	19.081	ug/l	89
62) Toluene	10.439	91	490289	18.779	ug/l	98
64) Chlorobenzene	11.710	112	307460	19.710	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.780	131	117876	20.357	ug/l	100
66) Ethyl Benzene	11.786	91	520897	18.662	ug/l	95
67) m/p-Xylenes	11.892	106	421101	39.472	ug/l	97
68) o-Xylene	12.222	106	208037	19.633	ug/l	95
69) Styrene	12.233	104	336580	19.272	ug/l	95
70) Isopropylbenzene	12.516	105	538181	19.866	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.769	83	184560	19.375	ug/l	98
72) 1,2,3-Trichloropropane	12.821	75	155544m	19.552	ug/l	
73) Bromobenzene	12.798	156	137472	20.429	ug/l	92
74) n-propylbenzene	12.857	91	599413	19.013	ug/l	97
75) 2-Chlorotoluene	12.945	91	368539	19.501	ug/l	99
76) 1,3,5-Trimethylbenzene	12.998	105	443780	19.557	ug/l	94
77) t-1,4-Dichloro-2-butene	12.563	75	53611	18.491	ug/l	93
78) 4-Chlorotoluene	13.045	91	348262	19.183	ug/l	98
79) tert-butylbenzene	13.263	119	400800	20.431	ug/l	94
80) 1,2,4-Trimethylbenzene	13.304	105	448601m	19.959	ug/l	
81) sec-Butylbenzene	13.439	105	553228	19.640	ug/l	97
82) p-Isopropyltoluene	13.557	119	467320	20.208	ug/l	96
83) 1,3-Dichlorobenzene	13.551	146	246336	19.998	ug/l	96
84) 1,4-Dichlorobenzene	13.633	146	242193	20.383	ug/l	97
85) n-Butylbenzene	13.880	91	347770	18.551	ug/l	96
86) Hexachloroethane	14.145	117	81252	19.158	ug/l	72
87) 1,2-Dichlorobenzene	13.927	146	255631	20.526	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.539	75	39396	18.935	ug/l #	71
89) 1,2,4-Trichlorobenzene	15.198	180	152165	22.199	ug/l	97
90) Hexachlorobutadiene	15.298	225	82256	23.693	ug/l	98
91) Naphthalene	15.433	128	505423	22.457	ug/l	99
92) 1,2,3-Trichlorobenzene	15.627	180	159804	22.695	ug/l	97

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

