

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN072722\
 Data File : VN073599.D
 Acq On : 27 Jul 2022 11:30
 Operator : JC\MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/28/2022
 Supervised By : Mahesh Dadoda 07/28/2022

Quant Time: Jul 27 13:09:51 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N072722W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 27 13:09:03 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.581	128	53440	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.898	114	276528	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.686	117	256878	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.369	65	141528	27.982	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	93.267%		
60) 4-Bromofluorobenzene	12.674	95	126181	25.958	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	86.533%		
63) Toluene-d8	10.380	98	452326	32.102	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	107.000%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.046	85	18359	4.538	ug/l	100
3) Chloromethane	2.269	50	25412	6.052	ug/l	96
4) Vinyl Chloride	2.405	62	30874	7.669	ug/l	99
5) Bromomethane	2.804	94	17564	11.139	ug/l	98
6) Chloroethane	2.969	64	22882	8.960	ug/l #	88
7) Trichlorofluoromethane	3.316	101	31682	4.985	ug/l	96
8) Diethyl Ether	3.769	74	12252	4.783	ug/l	96
9) 1,1,2-Trichlorotrifluo...	4.151	101	19315	5.423	ug/l	71
10) 1,1-Dichloroethene	4.110	96	17195	4.792	ug/l	97
11) Methyl Iodide	4.346	142	15330	4.288	ug/l	84
12) Methyl Acetate	4.781	43	29079	4.002	ug/l #	88
13) Acrolein	3.981	56	23697	29.178	ug/l	96
14) Acrylonitrile	5.475	53	62234	21.733	ug/l	99
15) Acetone	4.228	58	20286	25.924	ug/l	72
16) Carbon Disulfide	4.457	76	46196	4.813	ug/l #	94
17) Allyl chloride	4.763	41	28264	4.217	ug/l	79
18) Methylene Chloride	5.010	84	24735	5.700	ug/l	98
19) trans-1,2-Dichloroethene	5.510	96	18386	4.799	ug/l	85
20) Diisopropyl ether	6.410	45	59869	4.220	ug/l #	93
21) 1,1-Dichloroethane	6.304	63	38103	5.019	ug/l	100
22) cis-1,2-Dichloroethene	7.245	96	22244	4.887	ug/l	97
23) tert-Butyl Alcohol	5.287	59	21677	18.998	ug/l #	100
24) Methyl tert-Butyl Ether	5.534	73	56278	4.255	ug/l	94
25) Chloroform	7.745	83	38229	5.012	ug/l	100
26) Cyclohexane	8.022	56	30563	4.628	ug/l #	96
29) 1,1-Dichloropropene	8.151	75	25661	5.077	ug/l	97
30) 2-Butanone	7.257	43	92416	24.333	ug/l	97
31) 2,2-Dichloropropane	7.245	77	29223	9.718	ug/l	97
32) 1,1,1-Trichloroethane	7.939	97	31015	5.042	ug/l	96
33) Carbon Tetrachloride	8.128	117	26609	5.130	ug/l	95
34) Benzene	8.386	78	88146	5.573	ug/l #	77
35) Methacrylonitrile	7.563	41	14926	4.409	ug/l	91
36) 1,2-Dichloroethane	8.463	62	30022	5.215	ug/l #	95
37) Trichloroethene	9.145	130	21114	5.377	ug/l	95
38) Methylcyclohexane	9.392	83	30612	5.116	ug/l	93
39) 1,2-Dichloropropane	9.428	63	22514	5.509	ug/l	100
40) Dibromomethane	9.510	93	15048	5.453	ug/l	92
41) Bromodichloromethane	9.698	83	29695	5.350	ug/l	90
42) Vinyl Acetate	6.351	43	243400	20.954	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.334	43	36526	5.228	ug/l	97
44) Isopropyl Acetate	8.492	43	44313	4.064	ug/l	94
45) 1,4-Dioxane	9.504	88	10690	104.195	ug/l	97
46) Methyl methacrylate	9.492	41	20121	4.064	ug/l	87
47) n-amyl Acetate	12.327	43	30186	3.465	ug/l	93
48) t-1,3-Dichloropropene	10.663	75	26805	5.128	ug/l	94
49) cis-1,3-Dichloropropene	10.128	75	30393	5.314	ug/l	89
50) 1,1,2-Trichloroethane	10.839	97	22476	5.612	ug/l	93
51) Ethyl methacrylate	10.704	69	28464	4.312	ug/l	81
52) 1,3-Dichloropropane	10.986	76	37758	5.482	ug/l	98
53) Dibromochloromethane	11.175	129	20501	4.912	ug/l	100
54) 1,2-Dibromoethane	11.280	107	21381	5.105	ug/l	94
55) 2-Chloroethyl vinyl ether	9.980	63	57361	20.217	ug/l	99
56) Bromoform	12.398	173	15281	4.972	ug/l #	97
58) 4-Methyl-2-Pentanone	10.269	43	163944	22.409	ug/l	97
59) 2-Hexanone	11.027	43	124325	22.226	ug/l	98
61) Tetrachloroethene	10.916	164	21081	6.099	ug/l	92
62) Toluene	10.445	91	94341	5.477	ug/l	97
64) Chlorobenzene	11.710	112	54883	5.324	ug/l	96
65) 1,1,1,2-Tetrachloroethane	11.780	131	19856	5.086	ug/l	96
66) Ethyl Benzene	11.786	91	90594	4.808	ug/l	96
67) m/p-Xylenes	11.898	106	66087	9.313	ug/l	99
68) o-Xylene	12.222	106	33383	4.698	ug/l	100
69) Styrene	12.233	104	50991	4.440	ug/l	97
70) Isopropylbenzene	12.522	105	81995	4.493	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.769	83	34196	5.377	ug/l	98
72) 1,2,3-Trichloropropane	12.821	75	29330m	5.877	ug/l	
73) Bromobenzene	12.798	156	21414	4.980	ug/l	99
74) n-propylbenzene	12.863	91	96172	4.609	ug/l	100
75) 2-Chlorotoluene	12.945	91	61171	4.725	ug/l	97
76) 1,3,5-Trimethylbenzene	12.998	105	69745	4.569	ug/l	97
77) t-1,4-Dichloro-2-butene	12.563	75	8224	5.109	ug/l	95
78) 4-Chlorotoluene	13.045	91	56701	4.561	ug/l	100
79) tert-butylbenzene	13.263	119	58557	4.388	ug/l	95
80) 1,2,4-Trimethylbenzene	13.310	105	65229	4.357	ug/l #	81
81) sec-Butylbenzene	13.439	105	83526	4.579	ug/l	99
82) p-Isopropyltoluene	13.557	119	62473	4.222	ug/l	97
83) 1,3-Dichlorobenzene	13.551	146	38337	5.033	ug/l	97
84) 1,4-Dichlorobenzene	13.633	146	35247	4.650	ug/l	96
85) n-Butylbenzene	13.880	91	48250	3.998	ug/l	98
86) Hexachloroethane	14.151	117	13445	4.662	ug/l	82
87) 1,2-Dichlorobenzene	13.927	146	39314	4.928	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.539	75	6728	4.283	ug/l	94
89) 1,2,4-Trichlorobenzene	15.198	180	17337	4.166	ug/l	96
90) Hexachlorobutadiene	15.304	225	10625	5.958	ug/l	98
91) Naphthalene	15.433	128	50360	3.199	ug/l	99
92) 1,2,3-Trichlorobenzene	15.627	180	18096	4.238	ug/l	97

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

