

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050823\
 Data File : VN077612.D
 Acq On : 08 May 2023 12:10
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/09/2023
 Supervised By : Mahesh Dadoda 05/09/2023

Quant Time: May 08 12:57:29 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N050823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon May 08 12:44:57 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.819	128	129769	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	743390	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	684881	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	262976	28.179	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	93.933%		
60) 4-Bromofluorobenzene	12.848	95	337031	30.948	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	103.167%		
63) Toluene-d8	10.572	98	926020	29.274	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.567%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.131	85	832899	97.757	ug/l	95
3) Chloromethane	2.372	50	595632	91.989	ug/l	99
4) Vinyl Chloride	2.519	62	898014	90.133	ug/l	95
5) Bromomethane	2.943	94	649291	97.766	ug/l	96
6) Chloroethane	3.119	64	590890	90.779	ug/l	96
7) Trichlorofluoromethane	3.501	101	1194157	88.129	ug/l	99
8) Diethyl Ether	3.966	74	418455	98.136	ug/l	89
9) 1,1,2-Trichlorotrifluo...	4.372	101	681637	93.252	ug/l	96
10) 1,1-Dichloroethene	4.348	96	666999	96.473	ug/l	92
11) Methyl Iodide	4.590	142	1050200	97.660	ug/l	93
12) Methyl Acetate	5.031	43	801127	95.853	ug/l #	84
13) Acrolein	4.190	56	496761	485.227	ug/l	100
14) Acrylonitrile	5.725	53	1255350	493.776	ug/l	98
15) Acetone	4.425	58	344479	445.168	ug/l	86
16) Carbon Disulfide	4.719	76	1609716	96.920	ug/l	98
17) Allyl chloride	5.031	41	642798	90.080	ug/l	90
18) Methylene Chloride	5.284	84	753780	89.704	ug/l	89
19) trans-1,2-Dichloroethene	5.795	96	736383	94.672	ug/l	96
20) Diisopropyl ether	6.678	45	1627646	93.245	ug/l #	89
21) 1,1-Dichloroethane	6.572	63	1234229	96.393	ug/l	99
22) cis-1,2-Dichloroethene	7.489	96	896769	95.680	ug/l	92
23) tert-Butyl Alcohol	5.525	59	499173	500.617	ug/l #	100
24) Methyl tert-Butyl Ether	5.801	73	2254787	96.345	ug/l	93
25) Chloroform	7.972	83	1463011	95.861	ug/l	99
26) Cyclohexane	8.266	56	988620	94.056	ug/l #	91
29) 1,1-Dichloropropene	8.378	75	1053501	98.441	ug/l	97
30) 2-Butanone	7.489	43	1386810	486.163	ug/l #	89
31) 2,2-Dichloropropane	7.495	77	1209420	97.002	ug/l	99
32) 1,1,1-Trichloroethane	8.172	97	1385263	100.016	ug/l	94
33) Carbon Tetrachloride	8.366	117	1182161	100.929	ug/l	96
34) Benzene	8.613	78	3114772	96.391	ug/l	96
35) Methacrylonitrile	7.784	41	314758	97.213	ug/l	87
36) 1,2-Dichloroethane	8.672	62	1015125	94.226	ug/l	96
37) Trichloroethene	9.354	130	800169	95.791	ug/l	100
38) Methylcyclohexane	9.601	83	1359073	98.631	ug/l	94
39) 1,2-Dichloropropane	9.625	63	709048	94.775	ug/l	95
40) Dibromomethane	9.713	93	574057	97.328	ug/l	97
41) Bromodichloromethane	9.889	83	1174636	98.902	ug/l	99
42) Vinyl Acetate	6.607	43	5142023m	536.499	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	597232m	97.575	ug/l	
44) Isopropyl Acetate	8.689	43	1093401m	97.388	ug/l	
45) 1,4-Dioxane	9.695	88	286587	2053.956	ug/l	92
46) Methyl methacrylate	9.683	41	477686	94.759	ug/l	86
47) n-amyl Acetate	12.495	43	1004472	103.904	ug/l	98
48) t-1,3-Dichloropropene	10.836	75	1252700	104.622	ug/l	100
49) cis-1,3-Dichloropropene	10.313	75	1329556	101.309	ug/l	94
50) 1,1,2-Trichloroethane	11.019	97	822802	96.868	ug/l	93
51) Ethyl methacrylate	10.877	69	1115546	101.737	ug/l	87
52) 1,3-Dichloropropane	11.166	76	1315344	95.775	ug/l	100
53) Dibromochloromethane	11.360	129	902429	102.116	ug/l	99
54) 1,2-Dibromoethane	11.472	107	838850	99.421	ug/l	97
55) 2-Chloroethyl vinyl ether	10.160	63	2607751	525.925	ug/l	97
56) Bromoform	12.577	173	572569	110.111	ug/l	99
58) 4-Methyl-2-Pentanone	10.448	43	3035155	481.233	ug/l #	91
59) 2-Hexanone	11.195	43	2175885	477.921	ug/l	90
61) Tetrachloroethene	11.107	164	633085	95.564	ug/l	97
62) Toluene	10.630	91	3675799	96.941	ug/l	99
64) Chlorobenzene	11.895	112	2269056	97.305	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.960	131	841345	100.012	ug/l	96
66) Ethyl Benzene	11.966	91	4170653	99.269	ug/l	99
67) m/p-Xylenes	12.071	106	3301948	199.754	ug/l	97
68) o-Xylene	12.401	106	1646710	101.086	ug/l	94
69) Styrene	12.413	104	2715146	104.237	ug/l	97
70) Isopropylbenzene	12.695	105	4237319	100.144	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.942	83	1113205	98.108	ug/l	97
72) 1,2,3-Trichloropropane	12.995	75	791874m	79.696	ug/l	
73) Bromobenzene	12.983	156	893122	100.947	ug/l	89
74) n-propylbenzene	13.036	91	4919427	103.984	ug/l	99
75) 2-Chlorotoluene	13.124	91	2916464	101.927	ug/l	100
76) 1,3,5-Trimethylbenzene	13.177	105	3534837	105.710	ug/l	99
77) t-1,4-Dichloro-2-butene	12.736	75	373108	113.440	ug/l	86
78) 4-Chlorotoluene	13.224	91	2848730	101.967	ug/l	98
79) tert-butylbenzene	13.442	119	3065300	102.355	ug/l	95
80) 1,2,4-Trimethylbenzene	13.483	105	3533575	108.886	ug/l	100
81) sec-Butylbenzene	13.618	105	4403320	104.753	ug/l	99
82) p-Isopropyltoluene	13.730	119	3602103	107.698	ug/l	98
83) 1,3-Dichlorobenzene	13.736	146	1733980	105.542	ug/l	97
84) 1,4-Dichlorobenzene	13.813	146	1691970	105.199	ug/l	99
85) n-Butylbenzene	14.060	91	3012760	109.493	ug/l	100
86) Hexachloroethane	14.336	117	661946	106.198	ug/l	94
87) 1,2-Dichlorobenzene	14.107	146	1644766	103.135	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.718	75	212943	103.271	ug/l	94
89) 1,2,4-Trichlorobenzene	15.395	180	707510	128.767	ug/l	98
90) Hexachlorobutadiene	15.507	225	283135	91.385	ug/l	94
91) Naphthalene	15.642	128	2547817	135.744	ug/l	99
92) 1,2,3-Trichlorobenzene	15.842	180	658595	130.152	ug/l	97

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

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