

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN030823\
 Data File : VN076887.D
 Acq On : 08 Mar 2023 19:35
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: Mar 09 03:48:24 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N030823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 09 03:46:27 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 03/09/2023
 Supervised By : Mahesh Dadoda 03/09/2023

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

Internal Standards						
1) Bromochloromethane	7.819	128	47784	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	341412	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.866	117	382138	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	132674	30.118	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.400%			
60) 4-Bromofluorobenzene	12.854	95	224712	32.934	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 109.767%			
63) Toluene-d8	10.572	98	389503	29.088	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 96.967%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.137	85	589559	110.956	ug/l	99
3) Chloromethane	2.378	50	497014	81.275	ug/l	99
4) Vinyl Chloride	2.531	62	462743	72.810	ug/l	98
5) Bromomethane	2.960	94	280159	63.557	ug/l	98
6) Chloroethane	3.131	64	260049	63.885	ug/l	97
7) Trichlorofluoromethane	3.513	101	879645	102.549	ug/l	99
8) Diethyl Ether	3.978	74	349005	103.582	ug/l	85
9) 1,1,2-Trichlorotrifluo...	4.384	101	503578	97.646	ug/l	95
10) 1,1-Dichloroethene	4.354	96	494404	101.694	ug/l	98
11) Methyl Iodide	4.607	142	658011	112.212	ug/l	95
12) Methyl Acetate	5.037	43	807277	84.850	ug/l	99
13) Acrolein	4.190	56	639649	537.687	ug/l	98
14) Acrylonitrile	5.731	53	1346748	456.645	ug/l	97
15) Acetone	4.443	58	348798	377.994	ug/l	85
16) Carbon Disulfide	4.725	76	1392835	102.476	ug/l	97
17) Allyl chloride	5.037	41	755327	90.044	ug/l	95
18) Methylene Chloride	5.290	84	550975	91.300	ug/l	87
19) trans-1,2-Dichloroethene	5.801	96	519841	96.793	ug/l	98
20) Diisopropyl ether	6.684	45	1696768	86.198	ug/l	94
21) 1,1-Dichloroethane	6.578	63	985356	93.756	ug/l	99
22) cis-1,2-Dichloroethene	7.495	96	600398	98.190	ug/l	97
23) tert-Butyl Alcohol	5.537	59	367670	433.910	ug/l #	100
24) Methyl tert-Butyl Ether	5.807	73	1674145	100.774	ug/l	92
25) Chloroform	7.972	83	989826	96.028	ug/l	99
26) Cyclohexane	8.266	56	908071	95.970	ug/l #	92
29) 1,1-Dichloropropene	8.378	75	752691	96.531	ug/l	98
30) 2-Butanone	7.489	43	1674567	386.307	ug/l	95
31) 2,2-Dichloropropane	7.501	77	771029	94.948	ug/l #	63
32) 1,1,1-Trichloroethane	8.178	97	883559	97.157	ug/l	96
33) Carbon Tetrachloride	8.366	117	770687	97.508	ug/l	95
34) Benzene	8.613	78	2247751	90.626	ug/l	97
35) Methacrylonitrile	7.783	41	395456	82.199	ug/l	91
36) 1,2-Dichloroethane	8.678	62	745703	89.782	ug/l	98
37) Trichloroethene	9.354	130	573579	98.430	ug/l	98
38) Methylcyclohexane	9.607	83	983958	99.515	ug/l	99
39) 1,2-Dichloropropane	9.625	63	573204	89.214	ug/l	97
40) Dibromomethane	9.713	93	369178	90.176	ug/l	94
41) Bromodichloromethane	9.889	83	785801	95.371	ug/l	99
42) Vinyl Acetate	6.613	43	5596019	436.676	ug/l	96

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.566	43	694092	83.064	ug/l	96
44) Isopropyl Acetate	8.695	43	1154034	83.432	ug/l	92
45) 1,4-Dioxane	9.695	88	180746	1555.490	ug/l	96
46) Methyl methacrylate	9.683	41	564135	88.469	ug/l	90
47) n-amyl Acetate	12.495	43	1003076	83.836	ug/l	93
48) t-1,3-Dichloropropene	10.836	75	846579	101.806	ug/l	100
49) cis-1,3-Dichloropropene	10.313	75	936111	98.126	ug/l #	88
50) 1,1,2-Trichloroethane	11.019	97	538948	90.501	ug/l	97
51) Ethyl methacrylate	10.877	69	884677	102.192	ug/l	86
52) 1,3-Dichloropropane	11.166	76	945847	92.360	ug/l	99
53) Dibromochloromethane	11.360	129	579224	95.463	ug/l	99
54) 1,2-Dibromoethane	11.471	107	551575	95.720	ug/l	100
55) 2-Chloroethyl vinyl ether	10.166	63	1809404	489.667	ug/l	98
56) Bromoform	12.583	173	403887	97.478	ug/l	98
58) 4-Methyl-2-Pentanone	10.448	43	3493467	396.690	ug/l #	89
59) 2-Hexanone	11.195	43	2514439	387.480	ug/l #	88
61) Tetrachloroethene	11.107	164	573495	113.267	ug/l	92
62) Toluene	10.636	91	2410987	90.583	ug/l	99
64) Chlorobenzene	11.895	112	1444238	92.033	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.966	131	535486	92.453	ug/l	98
66) Ethyl Benzene	11.966	91	2755729	97.078	ug/l	99
67) m/p-Xylenes	12.071	106	2067348	188.411	ug/l	92
68) o-Xylene	12.401	106	1001863	92.792	ug/l	94
69) Styrene	12.413	104	1683052	96.989	ug/l	98
70) Isopropylbenzene	12.695	105	2686531	97.218	ug/l	96
71) 1,1,2,2-Tetrachloroethane	12.942	83	731380	82.405	ug/l	99
72) 1,2,3-Trichloropropane	12.995	75	690323m	86.551	ug/l	
73) Bromobenzene	12.983	156	592402	93.377	ug/l	93
74) n-propylbenzene	13.036	91	3214150	97.390	ug/l	99
75) 2-Chlorotoluene	13.130	91	1923360	97.269	ug/l	96
76) 1,3,5-Trimethylbenzene	13.177	105	2303724	99.169	ug/l	93
77) t-1,4-Dichloro-2-butene	12.736	75	241754	96.134	ug/l	93
78) 4-Chlorotoluene	13.224	91	1886554	99.611	ug/l	94
79) tert-butylbenzene	13.442	119	1937836	95.668	ug/l	93
80) 1,2,4-Trimethylbenzene	13.483	105	2283413	99.574	ug/l	95
81) sec-Butylbenzene	13.618	105	2836880	97.228	ug/l	100
82) p-Isopropyltoluene	13.730	119	2325348	98.432	ug/l	97
83) 1,3-Dichlorobenzene	13.736	146	1100942	91.353	ug/l	98
84) 1,4-Dichlorobenzene	13.813	146	1101421	93.224	ug/l	95
85) n-Butylbenzene	14.060	91	2136767	106.273	ug/l	98
86) Hexachloroethane	14.336	117	414599	91.952	ug/l	92
87) 1,2-Dichlorobenzene	14.107	146	1092370	90.617	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	14.724	75	163025	97.062	ug/l	95
89) 1,2,4-Trichlorobenzene	15.395	180	680647	109.305	ug/l	97
90) Hexachlorobutadiene	15.507	225	328116	107.904	ug/l	95
91) Naphthalene	15.642	128	2176276	109.002	ug/l	98
92) 1,2,3-Trichlorobenzene	15.842	180	655340	103.497	ug/l	98

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

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