

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102521\
 Data File : VN069148.D
 Acq On : 25 Oct 2021 12:47
 Operator : JC/MD
 Sample : M4068-09
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-WATER-03-QT4-2021

Manual Integrations
 APPROVED

MMDadoda
 10/27/2021 2:20:38 PM

Quant Time: Oct 26 03:34:54 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N102221W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 22 13:15:19 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.659	128	54437	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	8.968	114	327392	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.747	117	289943	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.440	65	131534	31.022	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 103.400%	
60) 4-Bromofluorobenzene	12.733	95	133301	26.813	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 89.367%	
63) Toluene-d8	10.443	98	400332	30.560	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 101.867%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.073	85	6770	1.881	ug/l	97
3) Chloromethane	2.303	50	8360	2.234	ug/l	92
4) Vinyl Chloride	2.445	62	9477	2.125	ug/l	100
5) Bromomethane	2.861	94	7683	2.626	ug/l	95
6) Chloroethane	3.017	64	6377	2.205	ug/l	98
7) Trichlorofluoromethane	3.376	101	12621	2.185	ug/l	93
8) Diethyl Ether	3.829	74	4661	2.279	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.216	101	7323	2.334	ug/l	94
10) 1,1-Dichloroethene	4.191	96	7013	2.291	ug/l	92
11) Methyl Iodide	4.433	142	7155	1.662	ug/l	96
12) Methyl Acetate	4.862	43	14068m	2.413	ug/l	
13) Acrolein	4.052	56	4960m	14.119	ug/l	
14) Acrylonitrile	5.565	53	17243	10.422	ug/l	97
15) Acetone	4.293	58	5430	10.499	ug/l	76
16) Carbon Disulfide	4.535	76	17953	2.182	ug/l	96
17) Allyl chloride	4.846	41	11442	2.170	ug/l	99
18) Methylene Chloride	5.098	84	10839	2.979	ug/l	92
19) trans-1,2-Dichloroethene	5.605	96	7420m	2.232	ug/l	
20) Diisopropyl ether	6.498	45	24090	2.139	ug/l	91
21) 1,1-Dichloroethane	6.391	63	14133	2.248	ug/l	97
22) cis-1,2-Dichloroethene	7.324	96	8372	2.101	ug/l	93
23) tert-Butyl Alcohol	5.369	59	7440	10.960	ug/l #	100
24) Methyl tert-Butyl Ether	5.618	73	24860	2.141	ug/l #	65
25) Chloroform	7.820	83	14747	2.195	ug/l	96
26) Cyclohexane	8.099	56	13010	2.247	ug/l #	95
29) 1,1-Dichloropropene	8.225	75	10694	2.076	ug/l	98
30) 2-Butanone	7.337	43	24943m	10.082	ug/l	
31) 2,2-Dichloropropane	7.327	77	12630	2.046	ug/l #	81
32) 1,1,1-Trichloroethane	8.019	97	13268	2.070	ug/l	99
33) Carbon Tetrachloride	8.209	117	10993	2.019	ug/l	98
34) Benzene	8.461	78	32725	2.127	ug/l #	59
35) Methacrylonitrile	7.640	41	5060	2.052	ug/l	96
36) 1,2-Dichloroethane	8.534	62	12171	2.192	ug/l #	81
37) Trichloroethene	9.217	130	7998	2.044	ug/l	97
38) Methylcyclohexane	9.459	83	13837	2.110	ug/l	97
39) 1,2-Dichloropropane	9.491	63	8197	2.089	ug/l	93
40) Dibromomethane	9.579	93	5592	2.039	ug/l	98
41) Bromodichloromethane	9.765	83	10673	1.947	ug/l	96
42) Vinyl Acetate	6.436	43	86991m	9.854	ug/l	

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.410	43	10657m	2.208	ug/l	
44) Isopropyl Acetate	8.563	43	17023	1.905	ug/l	98
45) 1,4-Dioxane	9.577	88	3057m	42.746	ug/l	
46) Methyl methacrylate	9.561	41	8687m	2.151	ug/l	
47) n-amyl Acetate	12.393	43	11943	1.574	ug/l	100
48) t-1,3-Dichloropropene	10.719	75	11684	1.843	ug/l	96
49) cis-1,3-Dichloropropene	10.191	75	12337	1.869	ug/l	97
50) 1,1,2-Trichloroethane	10.899	97	7959	2.022	ug/l	94
51) Ethyl methacrylate	10.762	69	12164	1.875	ug/l	95
52) 1,3-Dichloropropane	11.047	76	13920	2.102	ug/l	96
53) Dibromochloromethane	11.240	129	7474	1.779	ug/l	99
54) 1,2-Dibromoethane	11.347	107	7902	1.920	ug/l	96
55) 2-Chloroethyl vinyl ether	10.043	63	19557	9.493	ug/l	97
56) Bromoform	12.460	173	4583	1.513	ug/l #	96
58) 4-Methyl-2-Pentanone	10.333	43	51095	10.446	ug/l	99
59) 2-Hexanone	11.087	43	37259	10.087	ug/l	99
61) Tetrachloroethene	10.977	164	7271	2.307	ug/l	96
62) Toluene	10.507	91	36621	2.168	ug/l	97
64) Chlorobenzene	11.771	112	21633	2.112	ug/l	95
65) 1,1,1,2-Tetrachloroethane	11.843	131	7665	2.011	ug/l	100
66) Ethyl Benzene	11.848	91	38913	2.049	ug/l	98
67) m/p-Xylenes	11.956	106	28998	4.061	ug/l	98
68) o-Xylene	12.283	106	15110	2.113	ug/l	95
69) Styrene	12.296	104	22170	1.871	ug/l	98
70) Isopropylbenzene	12.581	105	37146	1.982	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.830	83	11264	2.050	ug/l #	94
72) 1,2,3-Trichloropropane	12.881	75	9746m	2.065	ug/l	
73) Bromobenzene	12.865	156	8293	1.952	ug/l	94
74) n-propylbenzene	12.924	91	40997	1.905	ug/l	96
75) 2-Chlorotoluene	13.012	91	26259	1.992	ug/l	98
76) 1,3,5-Trimethylbenzene	13.063	105	30765	1.969	ug/l	99
77) t-1,4-Dichloro-2-butene	12.626	75	2711	1.468	ug/l	97
78) 4-Chlorotoluene	13.109	91	23973	1.856	ug/l	95
79) tert-butylbenzene	13.324	119	27199	1.983	ug/l	99
80) 1,2,4-Trimethylbenzene	13.372	105	29305	1.911	ug/l #	81
81) sec-Butylbenzene	13.503	105	35363	1.842	ug/l	100
82) p-Isopropyltoluene	13.619	119	27666	1.766	ug/l	100
83) 1,3-Dichlorobenzene	13.619	146	13109	1.753	ug/l	99
84) 1,4-Dichlorobenzene	13.699	146	13115	1.801	ug/l	97
85) n-Butylbenzene	13.946	91	21289	1.625	ug/l	96
86) Hexachloroethane	14.211	117	4993	1.703	ug/l	90
87) 1,2-Dichlorobenzene	13.991	146	13460	1.883	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	14.608	75	1739	1.699	ug/l #	82
89) 1,2,4-Trichlorobenzene	15.268	180	4929	1.368	ug/l	97
90) Hexachlorobutadiene	15.373	225	3637	1.931	ug/l	100
91) Naphthalene	15.509	128	12776	1.226	ug/l #	91
92) 1,2,3-Trichlorobenzene	15.705	180	5147	1.495	ug/l	95

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

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