

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX110421\
 Data File : VX025065.D
 Acq On : 03 Nov 2021 22:27
 Operator : JC/MD
 Sample : M4068-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOQ-WATER-02-QT4-2021

Quant Time: Nov 03 23:58:15 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X110421W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Nov 03 23:52:56 2021
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 11/04/2021
 Supervised By : Mahesh Dadoda 11/10/2021

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

Internal Standards						
1) Bromochloromethane	4.904	128	21852	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	118759	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	105921	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.964	65	62049	29.752	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.167%		
60) 4-Bromofluorobenzene	11.085	95	55812	28.879	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	96.267%		
63) Toluene-d8	8.653	98	148917	30.440	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.467%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.167	85	5977	3.572	ug/l	98
3) Chloromethane	1.288	50	3420	3.890	ug/l	98
4) Vinyl Chloride	1.374	62	3805	3.774	ug/l #	71
5) Bromomethane	1.612	94	3651	4.411	ug/l	92
6) Chloroethane	1.691	64	2443	4.298	ug/l #	87
7) Trichlorofluoromethane	1.892	101	10309	4.237	ug/l	93
8) Diethyl Ether	2.136	74	2592	4.495	ug/l	83
9) 1,1,2-Trichlorotrifluo...	2.325	101	5442	4.288	ug/l	98
10) 1,1-Dichloroethene	2.325	96	4828	4.486	ug/l	93
11) Methyl Iodide	2.453	142	4631	6.849	ug/l	92
12) Methyl Acetate	2.703	43	9729	4.302	ug/l	94
13) Acrolein	2.246	56	3318	32.215	ug/l	99
14) Acrylonitrile	3.075	53	12844	20.166	ug/l	94
15) Acetone	2.386	58	3603	18.515	ug/l	97
16) Carbon Disulfide	2.520	76	10434	3.798	ug/l #	91
17) Allyl chloride	2.666	41	7407	4.314	ug/l	94
18) Methylene Chloride	2.794	84	5455	4.330	ug/l	95
19) trans-1,2-Dichloroethene	3.099	96	5376	4.544	ug/l	94
20) Diisopropyl ether	3.764	45	16415	4.420	ug/l	91
21) 1,1-Dichloroethane	3.617	63	10561	4.285	ug/l #	87
22) cis-1,2-Dichloroethene	4.501	96	6555	4.669	ug/l #	62
23) tert-Butyl Alcohol	2.977	59	8729m	22.537	ug/l	
24) Methyl tert-Butyl Ether	3.117	73	19403	4.265	ug/l	92
25) Chloroform	5.093	83	12261m	4.290	ug/l	
26) Cyclohexane	5.483	56	8834	4.493	ug/l #	97
29) 1,1-Dichloropropene	5.702	75	8420	4.409	ug/l	87
30) 2-Butanone	4.574	43	19415	20.158	ug/l #	58
31) 2,2-Dichloropropane	4.477	77	9505	3.918	ug/l #	76
32) 1,1,1-Trichloroethane	5.385	97	6838	2.489	ug/l #	67
33) Carbon Tetrachloride	5.690	117	10113	4.195	ug/l	95
34) Benzene	6.044	78	21115	4.335	ug/l	93
35) Methacrylonitrile	4.922	41	4133m	4.351	ug/l	
36) 1,2-Dichloroethane	6.099	62	9817	4.160	ug/l #	93
37) Trichloroethene	7.135	130	6308	4.634	ug/l	88
38) Methylcyclohexane	7.391	83	8342	4.068	ug/l	95
39) 1,2-Dichloropropane	7.440	63	5555	4.179	ug/l #	81
40) Dibromomethane	7.586	93	4497	4.343	ug/l	88
41) Bromodichloromethane	7.824	83	8915	4.055	ug/l #	94
42) Vinyl Acetate	3.727	43	59332	20.589	ug/l	98

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43) Ethyl Acetate	4.715	43	8133m	4.405	ug/l	
44) Isopropyl Acetate	6.342	43	12650	4.381	ug/l	97
45) 1,4-Dioxane	7.690	88	2758m	89.942	ug/l	
46) Methyl methacrylate	7.696	41	5770	4.087	ug/l	75
47) n-amyl Acetate	10.848	43	8705	3.738	ug/l	97
48) t-1,3-Dichloropropene	8.976	75	9241	3.902	ug/l	100
49) cis-1,3-Dichloropropene	8.373	75	9433	3.990	ug/l #	78
50) 1,1,2-Trichloroethane	9.153	97	5587	3.985	ug/l	94
51) Ethyl methacrylate	9.122	69	8832	3.908	ug/l	82
52) 1,3-Dichloropropane	9.311	76	9933	4.146	ug/l	96
53) Dibromochloromethane	9.525	129	6295	3.933	ug/l	100
54) 1,2-Dibromoethane	9.610	107	6770	4.323	ug/l	91
55) 2-Chloroethyl vinyl ether	8.245	63	25920	25.775	ug/l	98
56) Bromoform	10.799	173	3968	3.734	ug/l	96
58) 4-Methyl-2-Pentanone	8.580	43	37877	21.213	ug/l	91
59) 2-Hexanone	9.433	43	28972	21.117	ug/l	92
61) Tetrachloroethene	9.275	164	6020	4.850	ug/l	94
62) Toluene	8.720	91	23270	4.295	ug/l	98
64) Chlorobenzene	10.080	112	14237	4.350	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.171	131	5757	3.938	ug/l	96
66) Ethyl Benzene	10.195	91	27147	4.237	ug/l	94
67) m/p-Xylenes	10.305	106	18626	8.455	ug/l	85
68) o-Xylene	10.647	106	9564	4.446	ug/l	86
69) Styrene	10.659	104	14267	3.904	ug/l #	89
70) Isopropylbenzene	10.964	105	25955	4.153	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	9010	4.367	ug/l	97
72) 1,2,3-Trichloropropane	11.238	75	8456m	4.232	ug/l	
73) Bromobenzene	11.201	156	6293	4.506	ug/l	90
74) n-propylbenzene	11.305	91	30318	4.090	ug/l	99
75) 2-Chlorotoluene	11.366	91	19149	4.122	ug/l	94
76) 1,3,5-Trimethylbenzene	11.457	105	21980	4.032	ug/l	92
77) t-1,4-Dichloro-2-butene	11.018	75	2237	3.325	ug/l	69
78) 4-Chlorotoluene	11.457	91	21820	4.116	ug/l	94
79) tert-butylbenzene	11.719	119	21837	4.252	ug/l	97
80) 1,2,4-Trimethylbenzene	11.756	105	22078	4.119	ug/l	90
81) sec-Butylbenzene	11.896	105	25879	4.050	ug/l	93
82) p-Isopropyltoluene	12.012	119	21174	3.995	ug/l	94
83) 1,3-Dichlorobenzene	11.969	146	10472	4.032	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	9386	3.629	ug/l	85
85) n-Butylbenzene	12.335	91	18159	3.757	ug/l	95
86) Hexachloroethane	12.543	117	3472	3.675	ug/l	89
87) 1,2-Dichlorobenzene	12.335	146	10219	3.996	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	12.945	75	2332	4.132	ug/l #	77
89) 1,2,4-Trichlorobenzene	13.591	180	5244	3.385	ug/l	96
90) Hexachlorobutadiene	13.725	225	2994	3.826	ug/l	85
91) Naphthalene	13.780	128	13953	2.636	ug/l #	97
92) 1,2,3-Trichlorobenzene	13.963	180	5162	3.267	ug/l	97

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

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