

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112723\
 Data File : VX039034.D
 Acq On : 27 Nov 2023 12:13
 Operator : JC/MD
 Sample : 04699-07 2.5PPB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2023

Quant Time: Nov 28 01:11:41 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X112423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 27 03:22:25 2023
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/28/2023
 Supervised By : Mahesh Dadoda 11/28/2023

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

Internal Standards						
1) Bromochloromethane	4.897	128	9789	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	73319	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	89965	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	40303	30.095	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 100.300%	
60) 4-Bromofluorobenzene	11.079	95	58384	29.712	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 99.033%	
63) Toluene-d8	8.646	98	108326	30.455	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 101.533%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	3747	2.557	ug/l	98
3) Chloromethane	1.294	50	4612	2.749	ug/l	93
4) Vinyl Chloride	1.373	62	4435	2.619	ug/l #	87
5) Bromomethane	1.605	94	3488	3.367	ug/l	89
6) Chloroethane	1.690	64	2906	2.946	ug/l	94
7) Trichlorofluoromethane	1.885	101	6792	2.906	ug/l	92
8) Diethyl Ether	2.129	74	2351	2.620	ug/l	84
9) 1,1,2-Trichlorotrifluo...	2.331	101	3619	2.740	ug/l	97
10) 1,1-Dichloroethene	2.318	96	3715	2.790	ug/l	91
11) Methyl Iodide	2.452	142	3693	2.531	ug/l	95
12) Methyl Acetate	2.696	43	10855	2.614	ug/l	94
13) Acrolein	2.233	56	5620	15.448	ug/l	96
14) Acrylonitrile	3.062	53	13989	13.773	ug/l	95
15) Acetone	2.373	58	7274	19.702	ug/l	100
16) Carbon Disulfide	2.513	76	11257	2.791	ug/l	97
17) Allyl chloride	2.666	41	6489	2.455	ug/l	96
18) Methylene Chloride	2.788	84	4881	3.092	ug/l	95
19) trans-1,2-Dichloroethene	3.093	96	4072	2.704	ug/l	92
20) Diisopropyl ether	3.757	45	12927m	2.570	ug/l	
21) 1,1-Dichloroethane	3.605	63	7594	2.715	ug/l	100
22) cis-1,2-Dichloroethene	4.489	96	4749	2.721	ug/l #	84
23) tert-Butyl Alcohol	2.946	59	8296	14.754	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	13051	2.661	ug/l	94
25) Chloroform	5.092	83	7268	2.589	ug/l	98
26) Cyclohexane	5.464	56	6928	2.737	ug/l #	58
29) 1,1-Dichloropropene	5.690	75	5642	2.745	ug/l	73
30) 2-Butanone	4.556	43	26862	17.359	ug/l	100
31) 2,2-Dichloropropane	4.470	77	6729	2.863	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	6398	2.693	ug/l #	80
33) Carbon Tetrachloride	5.665	117	5084	2.541	ug/l	96
34) Benzene	6.031	78	16854	2.815	ug/l	96
35) Methacrylonitrile	4.928	41	3571m	2.605	ug/l	
36) 1,2-Dichloroethane	6.086	62	6586	2.998	ug/l #	85
37) Trichloroethene	7.128	130	4200	2.764	ug/l	90
38) Methylcyclohexane	7.378	83	7009	2.737	ug/l	91
39) 1,2-Dichloropropane	7.427	63	4559	2.887	ug/l	93
40) Dibromomethane	7.586	93	2997	2.686	ug/l	93
41) Bromodichloromethane	7.817	83	5944	2.773	ug/l #	98
42) Vinyl Acetate	3.721	43	51484	13.968	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	6725m	2.526	ug/l	
44) Isopropyl Acetate	6.336	43	11092	2.643	ug/l #	79
45) 1,4-Dioxane	7.665	88	2186	51.023	ug/l	97
46) Methyl methacrylate	7.695	41	6365	2.653	ug/l	93
47) n-amyl Acetate	10.841	43	7768	2.187	ug/l	96
48) t-1,3-Dichloropropene	8.976	75	6156	2.477	ug/l	93
49) cis-1,3-Dichloropropene	8.366	75	6870	2.680	ug/l	92
50) 1,1,2-Trichloroethane	9.152	97	3795	2.504	ug/l	96
51) Ethyl methacrylate	9.116	69	4760	2.509	ug/l	94
52) 1,3-Dichloropropane	9.311	76	6978	2.685	ug/l	96
53) Dibromochloromethane	9.518	129	3991	2.452	ug/l	95
54) 1,2-Dibromoethane	9.610	107	4330	2.605	ug/l	96
55) 2-Chloroethyl vinyl ether	8.244	63	18007	14.975	ug/l	98
56) Bromoform	10.799	173	2834	2.412	ug/l #	96
58) 4-Methyl-2-Pentanone	8.567	43	37937	13.906	ug/l	99
59) 2-Hexanone	9.427	43	32338	14.441	ug/l	99
61) Tetrachloroethene	9.274	164	3412	2.917	ug/l	93
62) Toluene	8.720	91	18025	2.822	ug/l	98
64) Chlorobenzene	10.079	112	10747	2.766	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.164	131	3586	2.563	ug/l	99
66) Ethyl Benzene	10.195	91	19434	2.672	ug/l	97
67) m/p-Xylenes	10.299	106	14575	5.423	ug/l	97
68) o-Xylene	10.640	106	6884	2.644	ug/l	99
69) Styrene	10.658	104	9587	2.488	ug/l	99
70) Isopropylbenzene	10.963	105	18201	2.613	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	6866	2.641	ug/l	98
72) 1,2,3-Trichloropropane	11.237	75	5402m	2.455	ug/l	
73) Bromobenzene	11.195	156	4302	2.713	ug/l	95
74) n-propylbenzene	11.305	91	22862	2.679	ug/l	99
75) 2-Chlorotoluene	11.365	91	13282	2.653	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	15974	2.662	ug/l	97
77) t-1,4-Dichloro-2-butene	11.018	75	1992	2.285	ug/l	96
78) 4-Chlorotoluene	11.457	91	15872	2.696	ug/l	99
79) tert-butylbenzene	11.713	119	14842	2.601	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	15718	2.617	ug/l	99
81) sec-Butylbenzene	11.890	105	19110	2.649	ug/l	99
82) p-Isopropyltoluene	12.012	119	15557	2.545	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	7753	2.555	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	8278	2.658	ug/l	99
85) n-Butylbenzene	12.335	91	15783	2.614	ug/l	94
86) Hexachloroethane	12.536	117	2573	2.221	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	7623	2.612	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.944	75	1701	2.558	ug/l	88
89) 1,2,4-Trichlorobenzene	13.585	180	4858	2.511	ug/l	99
90) Hexachlorobutadiene	13.725	225	1757	2.543	ug/l	98
91) Naphthalene	13.780	128	17350	2.431	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	4702	2.509	ug/l	98

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

