

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112823\
 Data File : VX039048.D
 Acq On : 28 Nov 2023 11:46
 Operator : JC/MD
 Sample : 04699-09 2.5PPB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT4-2023

Quant Time: Nov 29 01:29:13 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 11/29/2023
 Supervised By :Mahesh Dadoda 11/29/2023

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

Internal Standards						
1) Bromochloromethane	4.897	128	9995	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	78070	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	96744	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	40299	29.472	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	98.233%	
60) 4-Bromofluorobenzene	11.079	95	58996	27.920	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	93.067%	
63) Toluene-d8	8.647	98	109198	28.549	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	95.167%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	3337	2.231	ug/l	95
3) Chloromethane	1.294	50	4485	2.618	ug/l	98
4) Vinyl Chloride	1.374	62	4777	2.762	ug/l	96
5) Bromomethane	1.605	94	3392	3.207	ug/l	90
6) Chloroethane	1.691	64	3243	3.220	ug/l	91
7) Trichlorofluoromethane	1.886	101	6525	2.734	ug/l	98
8) Diethyl Ether	2.130	74	2351	2.566	ug/l	88
9) 1,1,2-Trichlorotrifluo...	2.331	101	3435	2.547	ug/l	99
10) 1,1-Dichloroethene	2.325	96	3419	2.515	ug/l	86
11) Methyl Iodide	2.453	142	3371	2.263	ug/l	89
12) Methyl Acetate	2.697	43	10016	2.362	ug/l	96
13) Acrolein	2.233	56	4925	13.259	ug/l	87
14) Acrylonitrile	3.062	53	13128	12.659	ug/l	98
15) Acetone	2.373	58	6887	18.269	ug/l	79
16) Carbon Disulfide	2.514	76	10525	2.556	ug/l	99
17) Allyl chloride	2.666	41	7335	2.718	ug/l	89
18) Methylene Chloride	2.788	84	4613	2.862	ug/l	94
19) trans-1,2-Dichloroethene	3.093	96	3808	2.477	ug/l	96
20) Diisopropyl ether	3.751	45	13299	2.589	ug/l #	80
21) 1,1-Dichloroethane	3.605	63	7903	2.767	ug/l #	92
22) cis-1,2-Dichloroethene	4.489	96	4395	2.466	ug/l #	58
23) tert-Butyl Alcohol	2.946	59	6942m	12.091	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	12762	2.548	ug/l	91
25) Chloroform	5.086	83	7416	2.587	ug/l	85
26) Cyclohexane	5.470	56	7014m	2.714	ug/l	
29) 1,1-Dichloropropene	5.690	75	5705	2.607	ug/l	87
30) 2-Butanone	4.550	43	24898	15.110	ug/l #	94
31) 2,2-Dichloropropane	4.471	77	6480	2.590	ug/l	92
32) 1,1,1-Trichloroethane	5.373	97	6410	2.534	ug/l	92
33) Carbon Tetrachloride	5.672	117	4980	2.337	ug/l	96
34) Benzene	6.037	78	16274	2.553	ug/l	93
35) Methacrylonitrile	4.916	41	3542	2.427	ug/l	84
36) 1,2-Dichloroethane	6.092	62	6249	2.671	ug/l #	94
37) Trichloroethene	7.123	130	3812m	2.356	ug/l	
38) Methylcyclohexane	7.379	83	7007	2.570	ug/l	98
39) 1,2-Dichloropropane	7.427	63	4388	2.610	ug/l	97
40) Dibromomethane	7.586	93	2943	2.477	ug/l	75
41) Bromodichloromethane	7.824	83	5627	2.466	ug/l #	88
42) Vinyl Acetate	3.721	43	49764	12.680	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112823\
 Data File : VX039048.D
 Acq On : 28 Nov 2023 11:46
 Operator : JC/MD
 Sample : 04699-09 2.5PPB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT4-2023

Quant Time: Nov 29 01:29:13 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 11/29/2023
 Supervised By : Mahesh Dadoda 11/29/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	6459	2.278	ug/l	94
44) Isopropyl Acetate	6.336	43	11060	2.475	ug/l	100
45) 1,4-Dioxane	7.659	88	2170	47.567	ug/l	95
46) Methyl methacrylate	7.696	41	6204	2.428	ug/l	99
47) n-amyl Acetate	10.841	43	7707	2.038	ug/l	96
48) t-1,3-Dichloropropene	8.976	75	5989	2.263	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	6707	2.457	ug/l	93
50) 1,1,2-Trichloroethane	9.147	97	4088	2.533	ug/l #	87
51) Ethyl methacrylate	9.116	69	4620	2.287	ug/l	90
52) 1,3-Dichloropropane	9.305	76	6713	2.426	ug/l	97
53) Dibromochloromethane	9.518	129	3621	2.089	ug/l	95
54) 1,2-Dibromoethane	9.610	107	4389	2.480	ug/l	92
55) 2-Chloroethyl vinyl ether	8.238	63	15634	12.210	ug/l	97
56) Bromoform	10.799	173	2189	1.750	ug/l	98
58) 4-Methyl-2-Pentanone	8.567	43	36356	12.392	ug/l	98
59) 2-Hexanone	9.427	43	32445	13.473	ug/l	99
61) Tetrachloroethene	9.275	164	3274	2.603	ug/l	94
62) Toluene	8.714	91	17069	2.485	ug/l	96
64) Chlorobenzene	10.079	112	11227	2.687	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	3775	2.509	ug/l	99
66) Ethyl Benzene	10.195	91	21014	2.687	ug/l	96
67) m/p-Xylenes	10.299	106	13938	4.823	ug/l	96
68) o-Xylene	10.640	106	6627	2.367	ug/l	97
69) Styrene	10.659	104	9375	2.263	ug/l	95
70) Isopropylbenzene	10.963	105	17902	2.390	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.213	83	6588	2.356	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	6017m	2.543	ug/l	
73) Bromobenzene	11.195	156	4016	2.355	ug/l	97
74) n-propylbenzene	11.305	91	21914	2.388	ug/l	100
75) 2-Chlorotoluene	11.366	91	13690	2.543	ug/l	92
76) 1,3,5-Trimethylbenzene	11.451	105	14886	2.307	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	1627	1.735	ug/l	81
78) 4-Chlorotoluene	11.457	91	15336	2.423	ug/l	97
79) tert-butylbenzene	11.713	119	14522	2.367	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	14867	2.302	ug/l	99
81) sec-Butylbenzene	11.890	105	18315	2.361	ug/l	99
82) p-Isopropyltoluene	12.012	119	15118	2.300	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	7696	2.358	ug/l	96
84) 1,4-Dichlorobenzene	12.042	146	7777	2.322	ug/l	98
85) n-Butylbenzene	12.329	91	15146	2.333	ug/l	96
86) Hexachloroethane	12.530	117	2325	1.867	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	7506	2.392	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	1489	2.082	ug/l #	84
89) 1,2,4-Trichlorobenzene	13.585	180	4406	2.118	ug/l	93
90) Hexachlorobutadiene	13.725	225	1524	2.051	ug/l	89
91) Naphthalene	13.774	128	16419	2.140	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	4459	2.213	ug/l	95

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

