

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030723\
 Data File : VX034362.D
 Acq On : 07 Mar 2023 10:59
 Operator : JC/MD
 Sample : VX0307WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0307WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/08/2023
 Supervised By : Mahesh Dadoda 03/08/2023

Quant Time: Mar 08 01:00:39 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X021723W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 17 12:33:35 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.550	168	268810	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	443925	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	403767	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.024	152	198759	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	154124	42.573	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	85.140%		
35) Dibromofluoromethane	5.385	113	127959	44.271	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	88.540%		
50) Toluene-d8	8.647	98	467100	45.011	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	90.020%#		
62) 4-Bromofluorobenzene	11.079	95	180799	45.548	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	91.100%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	44988	19.368	ug/l	98
3) Chloromethane	1.300	50	62434	18.678	ug/l	100
4) Vinyl Chloride	1.374	62	64741	21.267	ug/l	98
5) Bromomethane	1.605	94	38944	31.285	ug/l	97
6) Chloroethane	1.685	64	37340	24.399	ug/l	99
7) Trichlorofluoromethane	1.886	101	97285	23.622	ug/l	96
8) Diethyl Ether	2.136	74	36291	21.872	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.331	101	53854	18.568	ug/l	96
10) Methyl Iodide	2.453	142	62696	17.754	ug/l	95
11) Tert butyl alcohol	2.953	59	70893	87.553	ug/l #	85
12) 1,1-Dichloroethene	2.319	96	52908	18.197	ug/l	97
13) Acrolein	2.233	56	31644	85.613	ug/l	98
14) Allyl chloride	2.666	41	105168	17.052	ug/l	91
15) Acrylonitrile	3.062	53	171106	96.867	ug/l	99
16) Acetone	2.380	43	166404	89.105	ug/l	96
17) Carbon Disulfide	2.514	76	139654	16.707	ug/l	98
18) Methyl Acetate	2.703	43	112013	19.384	ug/l	100
19) Methyl tert-butyl Ether	3.117	73	198823	19.375	ug/l	98
20) Methylene Chloride	2.788	84	62354	18.531	ug/l	97
21) trans-1,2-Dichloroethene	3.093	96	58931	19.343	ug/l	97
22) Diisopropyl ether	3.763	45	215298	19.912	ug/l	91
23) Vinyl Acetate	3.721	43	839647	96.926	ug/l	100
24) 1,1-Dichloroethane	3.611	63	112201	18.902	ug/l	99
25) 2-Butanone	4.556	43	251228	92.975	ug/l	100
26) 2,2-Dichloropropane	4.477	77	97420	18.117	ug/l	99
27) cis-1,2-Dichloroethene	4.489	96	69711	19.323	ug/l	95
28) Bromochloromethane	4.891	49	41449	15.653	ug/l	89
29) Tetrahydrofuran	5.001	42	159602	96.822	ug/l	98
30) Chloroform	5.092	83	111892	19.631	ug/l	100
31) Cyclohexane	5.470	56	102072	18.885	ug/l	98
32) 1,1,1-Trichloroethane	5.385	97	98927	19.362	ug/l	98
36) 1,1-Dichloropropene	5.696	75	82602	19.324	ug/l	98
37) Ethyl Acetate	4.714	43	95716	20.036	ug/l	99
38) Carbon Tetrachloride	5.678	117	82336	18.719	ug/l	99
39) Methylcyclohexane	7.379	83	99820	18.146	ug/l	93
40) Benzene	6.037	78	251584	19.860	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Methacrylonitrile	4.922	41	52727	19.810	ug/l	99
42) 1,2-Dichloroethane	6.086	62	88082	19.770	ug/l	98
43) Isopropyl Acetate	6.336	43	162254	19.247	ug/l	99
44) Trichloroethene	7.129	130	63051	19.396	ug/l	94
45) 1,2-Dichloropropane	7.434	63	66408	19.693	ug/l	98
46) Dibromomethane	7.580	93	44341	19.979	ug/l	86
47) Bromodichloromethane	7.824	83	86854	19.070	ug/l	99
48) Methyl methacrylate	7.690	41	76823	19.200	ug/l	97
49) 1,4-Dioxane	7.659	88	31950	400.325	ug/l #	100
51) 4-Methyl-2-Pentanone	8.574	43	494642	106.646	ug/l	98
52) Toluene	8.720	92	157592	20.531	ug/l	99
53) t-1,3-Dichloropropene	8.976	75	95610	18.237	ug/l	97
54) cis-1,3-Dichloropropene	8.366	75	104420	18.605	ug/l	95
55) 1,1,2-Trichloroethane	9.153	97	63212	20.403	ug/l	98
56) Ethyl methacrylate	9.116	69	103120	19.675	ug/l	96
57) 1,3-Dichloropropane	9.305	76	107403	19.925	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.238	63	218212	96.111	ug/l	94
59) 2-Hexanone	9.427	43	375447	106.216	ug/l	98
60) Dibromochloromethane	9.518	129	66103	19.310	ug/l	100
61) 1,2-Dibromoethane	9.610	107	66415	20.269	ug/l	98
64) Tetrachloroethene	9.275	164	54630	19.170	ug/l	96
65) Chlorobenzene	10.079	112	166795	19.818	ug/l	96
66) 1,1,1,2-Tetrachloroethane	10.165	131	63061	19.354	ug/l	98
67) Ethyl Benzene	10.195	91	302425	20.001	ug/l	100
68) m/p-Xylenes	10.299	106	231916	40.079	ug/l	95
69) o-Xylene	10.640	106	115224	20.002	ug/l	95
70) Styrene	10.652	104	185759	19.827	ug/l	95
71) Bromoform	10.799	173	48537	18.250	ug/l #	99
73) Isopropylbenzene	10.963	105	298248	19.689	ug/l	99
74) N-amyl acetate	10.841	43	142924	18.781	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.213	83	101240	19.541	ug/l	99
76) 1,2,3-Trichloropropane	11.238	75	82916m	16.579	ug/l	
77) Bromobenzene	11.195	156	72151	19.793	ug/l	87
78) n-propylbenzene	11.305	91	342096	19.418	ug/l	98
79) 2-Chlorotoluene	11.366	91	208109	19.265	ug/l	96
80) 1,3,5-Trimethylbenzene	11.451	105	248685	19.527	ug/l	98
81) trans-1,4-Dichloro-2-b...	11.018	75	30798	15.819	ug/l	96
82) 4-Chlorotoluene	11.457	91	239224	19.443	ug/l	96
83) tert-Butylbenzene	11.713	119	255227	19.567	ug/l	96
84) 1,2,4-Trimethylbenzene	11.750	105	247999	19.259	ug/l	97
85) sec-Butylbenzene	11.890	105	304572	19.228	ug/l	98
86) p-Isopropyltoluene	12.012	119	257291	19.627	ug/l	97
87) 1,3-Dichlorobenzene	11.969	146	134583	19.686	ug/l	98
88) 1,4-Dichlorobenzene	12.042	146	135417	19.638	ug/l	97
89) n-Butylbenzene	12.335	91	218542	18.718	ug/l	98
90) Hexachloroethane	12.536	117	47122	17.192	ug/l	81
91) 1,2-Dichlorobenzene	12.335	146	134442	20.099	ug/l	97
92) 1,2-Dibromo-3-Chloropr...	12.945	75	20927	16.938	ug/l	77
93) 1,2,4-Trichlorobenzene	13.591	180	80362	18.713	ug/l	98
94) Hexachlorobutadiene	13.725	225	31458	17.671	ug/l	99
95) Naphthalene	13.774	128	275014	19.010	ug/l	100
96) 1,2,3-Trichlorobenzene	13.963	180	79556	18.660	ug/l	99

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

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The chromatogram displays a series of peaks representing various compounds. Key peaks include:

- Dichlorodifluoromethane, T
- Chloroacetylene, C
- Bromomethane, T
- Trichlorofluoromethane, T
- Diethyl Ether, T
- Acrolein, T
- Methyl Chloride, T
- Methyl Acetate, T
- Tert butyl alcohol, T
- 1,1-Dichloroethane, P
- Vinyl Acetate, T
- Disopropyl ether, T
- 2-Butanol, T
- Ethyl Acetate, T
- Bromoacetaldehyde, T
- Chloroform, C
- Cyclohexane, T
- Pentachlorobenzene, I
- Glyoxal, T
- 1,2-Dichloroethane, TM
- Isopropyl Acetate, T
- 1,4-Difluorobenzene, I
- Trichloroethene, TM
- 1,2-Dichloropropane, T
- 1,4-Dioxane, T
- Nitrobenzene, T
- Bromochloromethane, T
- cis-1,3-Dichloropropene, T
- 2-Chloroethyl Vinyl ether, T
- Toluene, CM
- t-1,3-Dichloropropene, T
- 1,3-Dichloropropane, T
- 1,2-Dibromomethane, T
- 1,1,1,2-Tetrachloroethane, PM
- Chlorobenzene, PM
- Phenyl Benzene, C
- 1,1,1,2-Tetrachloroethane, PM
- Bromofarm, P
- N-amyl acetate, T
- trans-1,4-Dichlorocyclohexane, T
- Isopropylbenzene, S
- 2-Chlorotoluene, T
- 4-Chlorotoluene, T
- 1,2,4-Trimethylbenzene, T
- tert-Butylbenzene, T
- p-Isopropyltoluene, T
- m/p-Xylenes, T
- Hexachloroethane, T
- 1,2-Dibromo-3-Chloropropane, T
- 1,2,4-Trichlorobenzene, T
- Hexachlorocyclopentadiene, I
- Naphthalene, T
- 1,2,3-Trichlorobenzene, T