

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030624\
 Data File : VX040597.D
 Acq On : 06 Mar 2024 10:58
 Operator : JC/MD
 Sample : P1187-09 2.5PPB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-WATER-03-QT1-2024

Quant Time: Mar 07 04:34:09 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X030524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 05 13:21:29 2024
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 03/07/2024
 Supervised By : Mahesh Dadoda 03/07/2024

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

Internal Standards						
1) Bromochloromethane	4.891	128	14963	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	84961	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	79802	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	44517	29.789	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.300%		
60) 4-Bromofluorobenzene	11.079	95	40309	29.447	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.167%		
63) Toluene-d8	8.647	98	107367	30.444	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.467%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	2935	2.892	ug/l	94
3) Chloromethane	1.294	50	2910	2.799	ug/l	99
4) Vinyl Chloride	1.374	62	2767	2.462	ug/l	92
5) Bromomethane	1.605	94	2066	3.010	ug/l	90
6) Chloroethane	1.691	64	1564	2.369	ug/l	96
7) Trichlorofluoromethane	1.886	101	4276	2.499	ug/l	97
8) Diethyl Ether	2.136	74	1306	2.248	ug/l	62
9) 1,1,2-Trichlorotrifluo...	2.325	101	2555	2.726	ug/l	95
10) 1,1-Dichloroethene	2.319	96	2215	2.482	ug/l	82
11) Methyl Iodide	2.453	142	2144	1.987	ug/l	82
12) Methyl Acetate	2.703	43	3166	2.154	ug/l	96
13) Acrolein	2.239	56	3728	13.454	ug/l	94
14) Acrylonitrile	3.062	53	7252	12.530	ug/l	99
15) Acetone	2.373	58	2298	13.890	ug/l	76
16) Carbon Disulfide	2.508	76	6528	2.662	ug/l #	87
17) Allyl chloride	2.666	41	4087	2.482	ug/l	77
18) Methylene Chloride	2.782	84	2715	2.665	ug/l	94
19) trans-1,2-Dichloroethene	3.087	96	2438	2.503	ug/l #	83
20) Diisopropyl ether	3.757	45	7602	2.308	ug/l #	61
21) 1,1-Dichloroethane	3.605	63	4780	2.522	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	2764	2.443	ug/l #	89
23) tert-Butyl Alcohol	2.959	59	3343	12.225	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	7909	2.402	ug/l #	88
25) Chloroform	5.086	83	5174	2.495	ug/l	91
26) Cyclohexane	5.471	56	3651	2.387	ug/l #	28
29) 1,1-Dichloropropene	5.684	75	3756m	2.554	ug/l	
30) 2-Butanone	4.562	43	10978	12.233	ug/l #	92
31) 2,2-Dichloropropane	4.465	77	3957m	2.493	ug/l	
32) 1,1,1-Trichloroethane	5.379	97	4451	2.402	ug/l	94
33) Carbon Tetrachloride	5.672	117	3763	2.414	ug/l	91
34) Benzene	6.031	78	9872	2.487	ug/l	97
35) Methacrylonitrile	4.922	41	2076m	2.253	ug/l	
36) 1,2-Dichloroethane	6.086	62	4568	2.489	ug/l #	87
37) Trichloroethene	7.129	130	2824	2.647	ug/l	89
38) Methylcyclohexane	7.385	83	3806	2.403	ug/l	91
39) 1,2-Dichloropropane	7.434	63	2519	2.492	ug/l #	88
40) Dibromomethane	7.586	93	2173	2.736	ug/l	95
41) Bromodichloromethane	7.824	83	4038	2.556	ug/l #	94
42) Vinyl Acetate	3.721	43	35668	11.544	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	4570m	2.704	ug/l	
44) Isopropyl Acetate	6.342	43	6360	2.357	ug/l	92
45) 1,4-Dioxane	7.659	88	1330	47.960	ug/l #	28
46) Methyl methacrylate	7.696	41	2995	2.235	ug/l	96
47) n-amyl Acetate	10.841	43	4435	1.907	ug/l	97
48) t-1,3-Dichloropropene	8.982	75	3761	2.252	ug/l	93
49) cis-1,3-Dichloropropene	8.372	75	4167	2.450	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	2552	2.419	ug/l	91
51) Ethyl methacrylate	9.116	69	3614	2.176	ug/l	81
52) 1,3-Dichloropropane	9.311	76	4826	2.681	ug/l	97
53) Dibromochloromethane	9.519	129	2676	2.225	ug/l	98
54) 1,2-Dibromoethane	9.610	107	2859	2.450	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	11031	13.044	ug/l	97
56) Bromoform	10.799	173	1848	2.167	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	20556	11.568	ug/l	98
59) 2-Hexanone	9.433	43	16711	11.643	ug/l	96
61) Tetrachloroethene	9.275	164	2534	2.675	ug/l	93
62) Toluene	8.720	91	11211	2.551	ug/l	98
64) Chlorobenzene	10.079	112	6742	2.510	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.165	131	2587	2.525	ug/l	96
66) Ethyl Benzene	10.195	91	12311	2.429	ug/l	99
67) m/p-Xylenes	10.299	106	8612	4.602	ug/l	90
68) o-Xylene	10.640	106	4145	2.301	ug/l	80
69) Styrene	10.659	104	6822	2.254	ug/l	96
70) Isopropylbenzene	10.963	105	11937	2.452	ug/l	96
71) 1,1,2,2-Tetrachloroethane	11.207	83	4449	2.607	ug/l	95
72) 1,2,3-Trichloropropane	11.238	75	3533m	2.301	ug/l	
73) Bromobenzene	11.195	156	2788	2.419	ug/l	96
74) n-propylbenzene	11.305	91	14605	2.429	ug/l	99
75) 2-Chlorotoluene	11.366	91	9632	2.700	ug/l	94
76) 1,3,5-Trimethylbenzene	11.451	105	10304	2.404	ug/l	97
77) t-1,4-Dichloro-2-butene	11.018	75	915	1.918	ug/l	81
78) 4-Chlorotoluene	11.457	91	10223	2.402	ug/l	100
79) tert-butylbenzene	11.713	119	9548	2.387	ug/l	96
80) 1,2,4-Trimethylbenzene	11.750	105	9474	2.244	ug/l	100
81) sec-Butylbenzene	11.890	105	12375	2.343	ug/l	99
82) p-Isopropyltoluene	12.006	119	9782	2.263	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	5632	2.512	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	5976	2.606	ug/l	97
85) n-Butylbenzene	12.335	91	9295	2.210	ug/l	97
86) Hexachloroethane	12.536	117	1458	1.933	ug/l	77
87) 1,2-Dichlorobenzene	12.335	146	5356	2.458	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	917	2.010	ug/l	97
89) 1,2,4-Trichlorobenzene	13.591	180	3697	2.520	ug/l	97
90) Hexachlorobutadiene	13.719	225	1599	2.695	ug/l	98
91) Naphthalene	13.774	128	10249	2.142	ug/l	98
92) 1,2,3-Trichlorobenzene	13.963	180	3426	2.368	ug/l	98

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

