

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071423\
 Data File : VX036535.D
 Acq On : 13 Jul 2023 19:05
 Operator : JC/MD
 Sample : 03572-07 2.5PPB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 LOD-MDL-WATER-01-QT3-2023

Quant Time: Jul 14 04:37:41 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 14 04:32:22 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 07/14/2023
 Supervised By : Semsettin Yesilyurt 07/14/2023

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

Internal Standards						
1) Bromochloromethane	4.897	128	33006	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	178550	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	158718	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	79947	29.184	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.267%		
60) 4-Bromofluorobenzene	11.079	95	74254	28.841	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	96.133%		
63) Toluene-d8	8.646	98	226342	30.991	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	103.300%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	3901	2.115	ug/l	96
3) Chloromethane	1.300	50	6005	2.380	ug/l	91
4) Vinyl Chloride	1.373	62	5435	2.089	ug/l	96
5) Bromomethane	1.611	94	6519	2.447	ug/l	97
6) Chloroethane	1.684	64	4660	2.632	ug/l #	88
7) Trichlorofluoromethane	1.885	101	9515	2.254	ug/l	96
8) Diethyl Ether	2.135	74	4031	2.299	ug/l	88
9) 1,1,2-Trichlorotrifluo...	2.337	101	4181	2.188	ug/l	98
10) 1,1-Dichloroethene	2.318	96	4652	2.409	ug/l	97
11) Methyl Iodide	2.452	142	4630	2.104	ug/l	90
12) Methyl Acetate	2.708	43	10010	2.205	ug/l	99
13) Acrolein	2.245	56	4426	11.884	ug/l	99
14) Acrylonitrile	3.068	53	13886	10.912	ug/l	93
15) Acetone	2.385	58	4236	11.757	ug/l	98
16) Carbon Disulfide	2.513	76	10163	2.169	ug/l #	88
17) Allyl chloride	2.666	41	7595	2.217	ug/l	95
18) Methylene Chloride	2.794	84	6348	2.729	ug/l	92
19) trans-1,2-Dichloroethene	3.093	96	5098	2.415	ug/l	83
20) Diisopropyl ether	3.763	45	16509	2.364	ug/l	89
21) 1,1-Dichloroethane	3.611	63	9699	2.382	ug/l	98
22) cis-1,2-Dichloroethene	4.495	96	6137m	2.415	ug/l	
23) tert-Butyl Alcohol	2.983	59	6959m	11.776	ug/l	
24) Methyl tert-Butyl Ether	3.117	73	16116	2.294	ug/l	98
25) Chloroform	5.092	83	9661	2.295	ug/l	98
26) Cyclohexane	5.482	56	6776	2.169	ug/l #	100
29) 1,1-Dichloropropene	5.696	75	6637	2.465	ug/l	93
30) 2-Butanone	4.562	43	19184	11.316	ug/l	95
31) 2,2-Dichloropropane	4.470	77	6597	2.234	ug/l #	72
32) 1,1,1-Trichloroethane	5.397	97	7386m	2.309	ug/l	
33) Carbon Tetrachloride	5.684	117	5971	2.188	ug/l #	87
34) Benzene	6.037	78	21034	2.534	ug/l #	92
35) Methacrylonitrile	4.921	41	4233m	2.407	ug/l	
36) 1,2-Dichloroethane	6.092	62	8056	2.528	ug/l #	92
37) Trichloroethene	7.135	130	5594	2.561	ug/l #	66
38) Methylcyclohexane	7.384	83	6910	2.206	ug/l	94
39) 1,2-Dichloropropane	7.433	63	5686	2.527	ug/l	94
40) Dibromomethane	7.586	93	4022	2.468	ug/l	95
41) Bromodichloromethane	7.823	83	6944	2.348	ug/l	90
42) Vinyl Acetate	3.727	43	59110	11.543	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.726	43	7285	2.208	ug/l	95
44) Isopropyl Acetate	6.342	43	12214	2.321	ug/l	99
45) 1,4-Dioxane	7.695	88	2884	48.279	ug/l #	1
46) Methyl methacrylate	7.695	41	6033	2.399	ug/l	94
47) n-amyl Acetate	10.847	43	9205	2.062	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	6239	1.923	ug/l	96
49) cis-1,3-Dichloropropene	8.366	75	7641	2.181	ug/l	99
50) 1,1,2-Trichloroethane	9.152	97	5719	2.585	ug/l	91
51) Ethyl methacrylate	9.116	69	7749	2.231	ug/l	90
52) 1,3-Dichloropropane	9.311	76	9518	2.550	ug/l	99
53) Dibromochloromethane	9.524	129	4700	2.105	ug/l	97
54) 1,2-Dibromoethane	9.610	107	5767	2.482	ug/l	97
55) 2-Chloroethyl vinyl ether	8.244	63	22923	12.273	ug/l	97
56) Bromoform	10.798	173	3147	2.026	ug/l	97
58) 4-Methyl-2-Pentanone	8.573	43	38800	11.822	ug/l	98
59) 2-Hexanone	9.433	43	28821	11.543	ug/l	99
61) Tetrachloroethene	9.274	164	4855	2.554	ug/l	92
62) Toluene	8.720	91	23204	2.606	ug/l	100
64) Chlorobenzene	10.079	112	14206	2.562	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.164	131	4634	2.314	ug/l	95
66) Ethyl Benzene	10.195	91	22971	2.373	ug/l	99
67) m/p-Xylenes	10.305	106	17918	4.749	ug/l	96
68) o-Xylene	10.640	106	8982	2.399	ug/l	97
69) Styrene	10.658	104	13629	2.245	ug/l	96
70) Isopropylbenzene	10.963	105	21980	2.357	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	8129	2.388	ug/l	96
72) 1,2,3-Trichloropropane	11.244	75	7785m	2.468	ug/l	
73) Bromobenzene	11.201	156	5735	2.488	ug/l	97
74) n-propylbenzene	11.304	91	26114	2.379	ug/l	97
75) 2-Chlorotoluene	11.365	91	17001	2.547	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	19152	2.390	ug/l	99
77) t-1,4-Dichloro-2-butene	11.024	75	1718	1.659	ug/l	76
78) 4-Chlorotoluene	11.457	91	18024	2.371	ug/l	99
79) tert-butylbenzene	11.713	119	17183	2.259	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	18594	2.341	ug/l	97
81) sec-Butylbenzene	11.890	105	21696	2.266	ug/l	96
82) p-Isopropyltoluene	12.012	119	17710	2.223	ug/l	97
83) 1,3-Dichlorobenzene	11.969	146	10081	2.351	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	10309	2.412	ug/l	98
85) n-Butylbenzene	12.335	91	14624	2.017	ug/l	99
86) Hexachloroethane	12.536	117	2392	1.814	ug/l	93
87) 1,2-Dichlorobenzene	12.335	146	10403	2.419	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.944	75	1400	1.829	ug/l	89
89) 1,2,4-Trichlorobenzene	13.591	180	5993	2.209	ug/l	95
90) Hexachlorobutadiene	13.725	225	2367	2.402	ug/l	98
91) Naphthalene	13.774	128	20881	2.194	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	6025	2.201	ug/l	98

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

