

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX060723\
 Data File : VX036051.D
 Acq On : 07 Jun 2023 09:52
 Operator : JC/MD
 Sample : VX0607WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0607WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/08/2023
 Supervised By : Mahesh Dadoda 06/08/2023

Quant Time: Jun 08 07:21:02 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X052323W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 23 11:36:37 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	37021	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	211554	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	198059	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	101073	32.858	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 109.533%			
60) 4-Bromofluorobenzene	11.079	95	104979	31.588	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 105.300%			
63) Toluene-d8	8.647	98	265001	30.266	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.900%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	53541	28.282	ug/l	98
3) Chloromethane	1.294	50	49055	21.122	ug/l	100
4) Vinyl Chloride	1.374	62	48336	22.146	ug/l	94
5) Bromomethane	1.617	94	30397	20.702	ug/l	99
6) Chloroethane	1.691	64	31214	22.685	ug/l	99
7) Trichlorofluoromethane	1.886	101	74912	22.640	ug/l	98
8) Diethyl Ether	2.130	74	29206	21.231	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.331	101	48011	26.970	ug/l	96
10) 1,1-Dichloroethene	2.319	96	42607	22.959	ug/l	96
11) Methyl Iodide	2.453	142	42104	18.781	ug/l	95
12) Methyl Acetate	2.709	43	121439	23.159	ug/l	98
13) Acrolein	2.239	56	45557	109.903	ug/l	100
14) Acrylonitrile	3.068	53	145613	110.771	ug/l	98
15) Acetone	2.404	58	45842	116.589	ug/l	80
16) Carbon Disulfide	2.514	76	87954	21.838	ug/l	98
17) Allyl chloride	2.666	41	84919	22.682	ug/l	94
18) Methylene Chloride	2.788	84	49511	20.487	ug/l	97
19) trans-1,2-Dichloroethene	3.087	96	46203	22.085	ug/l	92
20) Diisopropyl ether	3.757	45	178151	22.042	ug/l	95
21) 1,1-Dichloroethane	3.611	63	96026	22.667	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	55056	21.268	ug/l	94
23) tert-Butyl Alcohol	3.038	59	58250m	121.394	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	170451	22.789	ug/l	93
25) Chloroform	5.086	83	101148	23.267	ug/l	99
26) Cyclohexane	5.470	56	78388	24.466	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	71139	24.148	ug/l	98
30) 2-Butanone	4.568	43	223768	116.034	ug/l	99
31) 2,2-Dichloropropane	4.471	77	77618	24.524	ug/l	97
32) 1,1,1-Trichloroethane	5.385	97	85878	24.963	ug/l	99
33) Carbon Tetrachloride	5.678	117	70126	25.814	ug/l	98
34) Benzene	6.037	78	202573	21.797	ug/l	99
35) Methacrylonitrile	4.922	41	46443	22.569	ug/l	96
36) 1,2-Dichloroethane	6.086	62	88134	24.367	ug/l	97
37) Trichloroethene	7.123	130	52902	22.646	ug/l	94
38) Methylcyclohexane	7.379	83	80232	24.834	ug/l	99
39) 1,2-Dichloropropane	7.427	63	54378	21.738	ug/l	99
40) Dibromomethane	7.580	93	37651	22.254	ug/l	97
41) Bromodichloromethane	7.818	83	70877	23.173	ug/l	92
42) Vinyl Acetate	3.721	43	612781	108.177	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	83761m	22.775	ug/l	
44) Isopropyl Acetate	6.336	43	127900	21.334	ug/l	100
45) 1,4-Dioxane	7.744	88	27246m	478.498	ug/l	
46) Methyl methacrylate	7.690	41	62864	21.702	ug/l	96
47) n-amyl Acetate	10.841	43	105986	21.048	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	72815	21.519	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	82014	21.963	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	53857	22.250	ug/l	98
51) Ethyl methacrylate	9.116	69	83018	22.249	ug/l	95
52) 1,3-Dichloropropane	9.305	76	94893	22.496	ug/l	98
53) Dibromochloromethane	9.518	129	51775	23.324	ug/l	98
54) 1,2-Dibromoethane	9.610	107	56572	22.496	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	182383	92.107	ug/l	98
56) Bromoform	10.799	173	32945	22.894	ug/l	100
58) 4-Methyl-2-Pentanone	8.574	43	417841	108.614	ug/l	98
59) 2-Hexanone	9.427	43	318396	109.993	ug/l	99
61) Tetrachloroethene	9.275	164	44710	23.440	ug/l	98
62) Toluene	8.714	91	224194	21.981	ug/l	98
64) Chlorobenzene	10.079	112	140681	21.778	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	49342	21.849	ug/l	98
66) Ethyl Benzene	10.195	91	254545	22.315	ug/l	99
67) m/p-Xylenes	10.299	106	197443	45.729	ug/l	99
68) o-Xylene	10.640	106	96696	22.390	ug/l	98
69) Styrene	10.652	104	159047	22.314	ug/l	99
70) Isopropylbenzene	10.963	105	257503	23.359	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	85710	21.951	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	74241m	21.831	ug/l	
73) Bromobenzene	11.195	156	58388	21.801	ug/l	93
74) n-propylbenzene	11.305	91	305370	23.240	ug/l	99
75) 2-Chlorotoluene	11.366	91	186322	23.084	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	218201	23.306	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	20965	20.436	ug/l	92
78) 4-Chlorotoluene	11.451	91	213771	23.249	ug/l	100
79) tert-butylbenzene	11.713	119	209769	23.209	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	220337	23.418	ug/l	99
81) sec-Butylbenzene	11.890	105	259823	22.769	ug/l	99
82) p-Isopropyltoluene	12.006	119	219186	23.088	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	114786	22.646	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	114951	22.594	ug/l	99
85) n-Butylbenzene	12.329	91	190320	22.534	ug/l	99
86) Hexachloroethane	12.536	117	30958	20.708	ug/l	95
87) 1,2-Dichlorobenzene	12.335	146	110609	22.272	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	17679	23.691	ug/l	91
89) 1,2,4-Trichlorobenzene	13.585	180	64729	21.748	ug/l	98
90) Hexachlorobutadiene	13.725	225	27217	24.806	ug/l	99
91) Naphthalene	13.774	128	223984	21.747	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	63822	21.477	ug/l	96

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

