

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040723\
 Data File : VX034962.D
 Acq On : 07 Apr 2023 11:04
 Operator : JC/MD
 Sample : VX0407WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0407WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/10/2023
 Supervised By : Mahesh Dadoda 04/10/2023

Quant Time: Apr 07 23:56:28 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 28 09:11:00 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.891	128	27202	30.000	ug/l	-0.01
28) 1,4-Difluorobenzene	6.757	114	196087	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	210396	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	86375	33.047	ug/l	-0.01
Spiked Amount 30.000	Range 91 - 110		Recovery = 110.167%#			
60) 4-Bromofluorobenzene	11.079	95	128685	30.610	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 102.033%			
63) Toluene-d8	8.647	98	215883	30.193	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.633%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	65384	25.343	ug/l	98
3) Chloromethane	1.294	50	70797	21.163	ug/l	98
4) Vinyl Chloride	1.374	62	69640	21.099	ug/l	99
5) Bromomethane	1.611	94	36452	16.790	ug/l	98
6) Chloroethane	1.685	64	43580	20.289	ug/l	93
7) Trichlorofluoromethane	1.886	101	101527	19.311	ug/l	100
8) Diethyl Ether	2.130	74	38228	20.197	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.331	101	60913	22.837	ug/l	99
10) 1,1-Dichloroethene	2.319	96	55418	20.525	ug/l	97
11) Methyl Iodide	2.453	142	52854	15.372	ug/l	99
12) Methyl Acetate	2.703	43	126785	21.204	ug/l	97
13) Acrolein	2.233	56	69134	99.704	ug/l	99
14) Acrylonitrile	3.062	53	167394	101.666	ug/l	97
15) Acetone	2.380	58	51745	115.760	ug/l	94
16) Carbon Disulfide	2.514	76	132422	19.174	ug/l	98
17) Allyl chloride	2.660	41	107958	20.662	ug/l	98
18) Methylene Chloride	2.788	84	64123	20.160	ug/l	92
19) trans-1,2-Dichloroethene	3.093	96	59741	20.220	ug/l	97
20) Diisopropyl ether	3.757	45	223329	20.864	ug/l	92
21) 1,1-Dichloroethane	3.605	63	118988	20.789	ug/l	100
22) cis-1,2-Dichloroethene	4.483	96	71130	20.671	ug/l	98
23) tert-Butyl Alcohol	2.977	59	72740m	98.189	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	207114	20.642	ug/l	99
25) Chloroform	5.086	83	123084	21.143	ug/l	99
26) Cyclohexane	5.464	56	103167	20.569	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	90921	20.160	ug/l	98
30) 2-Butanone	4.550	43	255936	101.758	ug/l	99
31) 2,2-Dichloropropane	4.471	77	94372	20.634	ug/l #	80
32) 1,1,1-Trichloroethane	5.379	97	105209	19.885	ug/l	99
33) Carbon Tetrachloride	5.678	117	88663	20.305	ug/l	94
34) Benzene	6.038	78	256293	19.555	ug/l	100
35) Methacrylonitrile	4.916	41	53866	19.567	ug/l	98
36) 1,2-Dichloroethane	6.080	62	104381	20.313	ug/l	100
37) Trichloroethene	7.123	130	65427	19.615	ug/l	95
38) Methylcyclohexane	7.379	83	97500	19.788	ug/l	96
39) 1,2-Dichloropropane	7.428	63	65221	19.145	ug/l	99
40) Dibromomethane	7.580	93	45888	19.608	ug/l	99
41) Bromodichloromethane	7.818	83	86905	19.715	ug/l	98
42) Vinyl Acetate	3.715	43	804395	98.033	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.702	43	97060	19.898	ug/l	100
44) Isopropyl Acetate	6.336	43	152519	18.470	ug/l	99
45) 1,4-Dioxane	7.684	88	32778	400.658	ug/l	96
46) Methyl methacrylate	7.690	41	79415	19.738	ug/l	95
47) n-amyl Acetate	10.842	43	130060	18.117	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	88738	18.476	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	100360	19.020	ug/l	99
50) 1,1,2-Trichloroethane	9.147	97	63909	19.602	ug/l	98
51) Ethyl methacrylate	9.116	69	100291	18.953	ug/l	98
52) 1,3-Dichloropropane	9.305	76	112865	19.597	ug/l	99
53) Dibromochloromethane	9.519	129	62064	19.243	ug/l	99
54) 1,2-Dibromoethane	9.604	107	66182	18.977	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	280340	100.673	ug/l	99
56) Bromoform	10.799	173	40096	18.030	ug/l	98
58) 4-Methyl-2-Pentanone	8.568	43	486377	100.826	ug/l	99
59) 2-Hexanone	9.427	43	371056	102.163	ug/l	100
61) Tetrachloroethene	9.269	164	57686	20.348	ug/l	93
62) Toluene	8.714	91	275575	20.031	ug/l	100
64) Chlorobenzene	10.079	112	169983	20.064	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.159	131	60292	19.907	ug/l	99
66) Ethyl Benzene	10.195	91	312134	20.371	ug/l	100
67) m/p-Xylenes	10.299	106	234409	40.206	ug/l	98
68) o-Xylene	10.640	106	113694	19.719	ug/l	96
69) Styrene	10.653	104	187328	19.709	ug/l	98
70) Isopropylbenzene	10.963	105	303868	20.364	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	95718	19.515	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	81914m	18.347	ug/l	
73) Bromobenzene	11.195	156	70788	19.753	ug/l	95
74) n-propylbenzene	11.305	91	351990	20.264	ug/l	100
75) 2-Chlorotoluene	11.366	91	217229	20.060	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	253842	20.209	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	22805	16.632	ug/l	90
78) 4-Chlorotoluene	11.451	91	251461	20.255	ug/l	99
79) tert-butylbenzene	11.713	119	238859	19.920	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	253104	20.277	ug/l	98
81) sec-Butylbenzene	11.890	105	289883	19.952	ug/l	100
82) p-Isopropyltoluene	12.006	119	245036	19.985	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	133528	19.731	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	135175	19.890	ug/l	99
85) n-Butylbenzene	12.329	91	209614	19.837	ug/l	99
86) Hexachloroethane	12.536	117	36431	18.142	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	130612	19.724	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.939	75	20405	19.037	ug/l	92
89) 1,2,4-Trichlorobenzene	13.585	180	77524	19.516	ug/l	99
90) Hexachlorobutadiene	13.725	225	33552	21.901	ug/l	98
91) Naphthalene	13.774	128	272984	19.450	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	78835	19.852	ug/l	97

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

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