

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX070924\
 Data File : VX042238.D
 Acq On : 09 Jul 2024 10:17
 Operator : JC/MD
 Sample : VX0709WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0709WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/10/2024
 Supervised By : Mahesh Dadoda 07/10/2024

Quant Time: Jul 10 04:54:42 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061424W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 15 04:02:59 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.903	128	27615	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	157435	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	146322	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	58085	30.555	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.867%			
60) 4-Bromofluorobenzene	11.079	95	67789	29.930	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 99.767%			
63) Toluene-d8	8.647	98	185915	29.698	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	35922	20.095	ug/l	97
3) Chloromethane	1.300	50	38299	19.166	ug/l	98
4) Vinyl Chloride	1.374	62	35163	17.994	ug/l	98
5) Bromomethane	1.593	94	19442	18.612	ug/l	99
6) Chloroethane	1.666	64	17946	21.495	ug/l	100
7) Trichlorofluoromethane	1.867	101	46398	18.853	ug/l	98
8) Diethyl Ether	2.136	74	21107	19.818	ug/l	94
9) 1,1,2-Trichlorotrifluo...	2.312	101	35430	21.177	ug/l	100
10) 1,1-Dichloroethene	2.306	96	33603	19.911	ug/l	95
11) Methyl Iodide	2.440	142	38223	17.401	ug/l	99
12) Methyl Acetate	2.709	43	50111	23.289	ug/l	98
13) Acrolein	2.239	56	44677	102.977	ug/l	98
14) Acrylonitrile	3.068	53	97781	95.746	ug/l	97
15) Acetone	2.392	58	30602	104.749	ug/l	91
16) Carbon Disulfide	2.501	76	66542	17.991	ug/l	100
17) Allyl chloride	2.654	41	50897	19.857	ug/l	97
18) Methylene Chloride	2.782	84	38832	20.060	ug/l	94
19) trans-1,2-Dichloroethene	3.081	96	34065	20.149	ug/l	98
20) Diisopropyl ether	3.763	45	107395	20.385	ug/l	95
21) 1,1-Dichloroethane	3.605	63	61782	20.530	ug/l	98
22) cis-1,2-Dichloroethene	4.483	96	41592	20.323	ug/l	98
23) tert-Butyl Alcohol	2.995	59	33278	87.646	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	109578	20.990	ug/l	99
25) Chloroform	5.086	83	63813	20.865	ug/l	98
26) Cyclohexane	5.458	56	52564	20.110	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	42775	20.817	ug/l	97
30) 2-Butanone	4.562	43	142003	103.428	ug/l	99
31) 2,2-Dichloropropane	4.471	77	49539	22.003	ug/l	99
32) 1,1,1-Trichloroethane	5.373	97	55159	21.177	ug/l	99
33) Carbon Tetrachloride	5.665	117	47455	21.125	ug/l	99
34) Benzene	6.031	78	140519	20.529	ug/l	99
35) Methacrylonitrile	4.922	41	28718	20.825	ug/l	95
36) 1,2-Dichloroethane	6.086	62	44416	20.829	ug/l	100
37) Trichloroethene	7.123	130	38328	20.500	ug/l	94
38) Methylcyclohexane	7.372	83	56439	20.737	ug/l	99
39) 1,2-Dichloropropane	7.427	63	34300	21.036	ug/l	95
40) Dibromomethane	7.580	93	24872	20.621	ug/l	99
41) Bromodichloromethane	7.818	83	45493	21.053	ug/l	99
42) Vinyl Acetate	3.721	43	466643	101.541	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	52742	20.488	ug/l	98
44) Isopropyl Acetate	6.342	43	79069	20.507	ug/l	99
45) 1,4-Dioxane	7.671	88	16900m	359.581	ug/l	
46) Methyl methacrylate	7.696	41	38148	20.235	ug/l	96
47) n-amyl Acetate	10.841	43	69111	19.972	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	46125	20.732	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	52751	21.137	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	36969	21.079	ug/l	97
51) Ethyl methacrylate	9.116	69	57054	20.478	ug/l	99
52) 1,3-Dichloropropane	9.311	76	59429	20.727	ug/l	100
53) Dibromochloromethane	9.518	129	40896	21.308	ug/l	98
54) 1,2-Dibromoethane	9.610	107	38649	20.897	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	147496	113.736	ug/l	100
56) Bromoform	10.799	173	31613	20.200	ug/l	99
58) 4-Methyl-2-Pentanone	8.573	43	274976	104.874	ug/l	100
59) 2-Hexanone	9.433	43	210845	104.186	ug/l	99
61) Tetrachloroethene	9.275	164	38703	21.020	ug/l	96
62) Toluene	8.720	91	154805	20.907	ug/l	99
64) Chlorobenzene	10.079	112	106904	21.202	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	37208	21.367	ug/l	99
66) Ethyl Benzene	10.195	91	168683	20.838	ug/l	100
67) m/p-Xylenes	10.299	106	137769	42.311	ug/l	99
68) o-Xylene	10.640	106	67614	20.828	ug/l	100
69) Styrene	10.652	104	114014	21.017	ug/l	100
70) Isopropylbenzene	10.963	105	176284	21.597	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	59136	20.934	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	46739m	20.427	ug/l	
73) Bromobenzene	11.195	156	49398	20.748	ug/l	99
74) n-propylbenzene	11.305	91	192348	21.452	ug/l	100
75) 2-Chlorotoluene	11.366	91	120248	21.119	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	146246	21.386	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	16708	19.739	ug/l	90
78) 4-Chlorotoluene	11.457	91	133075	21.039	ug/l	100
79) tert-butylbenzene	11.713	119	157260	21.665	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	146447	21.436	ug/l	98
81) sec-Butylbenzene	11.890	105	184292	21.768	ug/l	100
82) p-Isopropyltoluene	12.006	119	160435	21.625	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	89671	21.123	ug/l	100
84) 1,4-Dichlorobenzene	12.042	146	86766	20.533	ug/l	99
85) n-Butylbenzene	12.335	91	121403	21.161	ug/l	100
86) Hexachloroethane	12.536	117	25522	21.065	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	89993	20.961	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	11533	19.738	ug/l	97
89) 1,2,4-Trichlorobenzene	13.585	180	59441	20.453	ug/l	99
90) Hexachlorobutadiene	13.725	225	30961	21.620	ug/l	96
91) Naphthalene	13.774	128	178478	20.325	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	62216	20.671	ug/l	99

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

