

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061424\
 Data File : VX041878.D
 Acq On : 14 Jun 2024 15:16
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX061424

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/17/2024
 Supervised By : Mahesh Dadoda 06/17/2024

Quant Time: Jun 15 04:10:50 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	4.904	128	32057	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	177234	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	166426	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	62657	28.393	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 94.633%			
60) 4-Bromofluorobenzene	11.079	95	77758	30.184	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.600%			
63) Toluene-d8	8.647	98	215998	30.336	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 101.133%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	40745	19.635	ug/l	97
3) Chloromethane	1.301	50	45461	19.598	ug/l	99
4) Vinyl Chloride	1.374	62	43424	19.142	ug/l	97
5) Bromomethane	1.599	94	22390	18.464	ug/l	100
6) Chloroethane	1.666	64	23670	24.423	ug/l	100
7) Trichlorofluoromethane	1.874	101	57458	20.112	ug/l	99
8) Diethyl Ether	2.136	74	23076	18.664	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	38265	19.702	ug/l	100
10) 1,1-Dichloroethene	2.307	96	37589	19.187	ug/l	93
11) Methyl Iodide	2.447	142	46310	18.162	ug/l	99
12) Methyl Acetate	2.709	43	47826	19.147	ug/l	98
13) Acrolein	2.239	56	44872	89.095	ug/l	99
14) Acrylonitrile	3.069	53	116226	98.037	ug/l	98
15) Acetone	2.392	58	37522	110.639	ug/l	95
16) Carbon Disulfide	2.502	76	82760	19.276	ug/l	99
17) Allyl chloride	2.660	41	60409	20.303	ug/l	99
18) Methylene Chloride	2.788	84	41897	18.644	ug/l	98
19) trans-1,2-Dichloroethene	3.087	96	37662	19.190	ug/l	97
20) Diisopropyl ether	3.764	45	116935	19.120	ug/l	90
21) 1,1-Dichloroethane	3.605	63	65019	18.612	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	44683	18.808	ug/l	96
23) tert-Butyl Alcohol	2.989	59	51144	116.035	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	116654	19.249	ug/l	97
25) Chloroform	5.099	83	67767	19.088	ug/l	96
26) Cyclohexane	5.464	56	58691	19.343	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	46669	20.175	ug/l	98
30) 2-Butanone	4.568	43	166742	107.880	ug/l	99
31) 2,2-Dichloropropane	4.471	77	52488	20.708	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	57676	19.670	ug/l	99
33) Carbon Tetrachloride	5.672	117	50213	19.855	ug/l	99
34) Benzene	6.038	78	153938	19.977	ug/l	98
35) Methacrylonitrile	4.928	41	30905	19.907	ug/l	93
36) 1,2-Dichloroethane	6.086	62	48202	20.079	ug/l	99
37) Trichloroethene	7.129	130	41840	19.878	ug/l	99
38) Methylcyclohexane	7.379	83	62681	20.457	ug/l	99
39) 1,2-Dichloropropane	7.434	63	35762	19.483	ug/l	99
40) Dibromomethane	7.580	93	27084	19.946	ug/l	98
41) Bromodichloromethane	7.824	83	47154	19.384	ug/l	95
42) Vinyl Acetate	3.721	43	528656	102.184	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	58534	20.198	ug/l	100
44) Isopropyl Acetate	6.348	43	87264	20.104	ug/l	99
45) 1,4-Dioxane	7.665	88	21261m	401.835	ug/l	
46) Methyl methacrylate	7.696	41	42149	19.860	ug/l	94
47) n-amyl Acetate	10.842	43	75492	19.379	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	49050	19.583	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	55010	19.580	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	38205	19.350	ug/l	97
51) Ethyl methacrylate	9.116	69	61473	19.599	ug/l	98
52) 1,3-Dichloropropane	9.311	76	64431	19.961	ug/l	98
53) Dibromochloromethane	9.519	129	41483	19.199	ug/l	100
54) 1,2-Dibromoethane	9.610	107	41288	19.830	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	137023	93.857	ug/l	99
56) Bromoform	10.799	173	33079	18.775	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	306640	102.823	ug/l	100
59) 2-Hexanone	9.433	43	241823	105.059	ug/l	100
61) Tetrachloroethene	9.275	164	42365	20.230	ug/l	97
62) Toluene	8.720	91	167222	19.856	ug/l	100
64) Chlorobenzene	10.079	112	113247	19.747	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.165	131	38947	19.664	ug/l	99
66) Ethyl Benzene	10.195	91	181209	19.681	ug/l	100
67) m/p-Xylenes	10.299	106	146941	39.676	ug/l	100
68) o-Xylene	10.640	106	72545	19.647	ug/l	99
69) Styrene	10.653	104	122810	19.904	ug/l	100
70) Isopropylbenzene	10.963	105	185036	19.931	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	63380	19.726	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	51055m	19.618	ug/l	
73) Bromobenzene	11.201	156	52869	19.523	ug/l	99
74) n-propylbenzene	11.305	91	203697	19.973	ug/l	99
75) 2-Chlorotoluene	11.366	91	127975	19.761	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	154206	19.826	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	18060	18.759	ug/l	96
78) 4-Chlorotoluene	11.457	91	140975	19.596	ug/l	100
79) tert-butylbenzene	11.713	119	162518	19.685	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	154411	19.872	ug/l	99
81) sec-Butylbenzene	11.890	105	191437	19.880	ug/l	100
82) p-Isopropyltoluene	12.006	119	168095	19.920	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	94645	19.602	ug/l	100
84) 1,4-Dichlorobenzene	12.043	146	92893	19.328	ug/l	100
85) n-Butylbenzene	12.335	91	126000	19.310	ug/l	99
86) Hexachloroethane	12.536	117	26430	19.179	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	94667	19.386	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.945	75	12545	18.876	ug/l	96
89) 1,2,4-Trichlorobenzene	13.585	180	62011	18.760	ug/l	98
90) Hexachlorobutadiene	13.725	225	31486	19.330	ug/l	100
91) Naphthalene	13.774	128	191383	19.162	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	64975	18.980	ug/l	99

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

