

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061424\
 Data File : VX041872.D
 Acq On : 14 Jun 2024 12:56
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Manual Integrations
 APPROVED

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

Quant Time: Jun 15 03:38:11 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061424W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 15 03:37:34 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	31237	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	175777	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	163223	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	64059	29.790	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	99.300%	
60) 4-Bromofluorobenzene	11.079	95	72490	28.691	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	95.633%	
63) Toluene-d8	8.647	98	210991	30.214	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	100.700%	
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	9091	4.496	ug/l	99
3) Chloromethane	1.300	50	10829	4.791	ug/l	98
4) Vinyl Chloride	1.373	62	10548	4.772	ug/l	97
5) Bromomethane	1.599	94	5997	5.075	ug/l	94
6) Chloroethane	1.666	64	4737	5.016	ug/l	97
7) Trichlorofluoromethane	1.867	101	14669	5.269	ug/l	89
8) Diethyl Ether	2.136	74	5953	4.941	ug/l	89
9) 1,1,2-Trichlorotrifluo...	2.312	101	9429	4.982	ug/l	99
10) 1,1-Dichloroethene	2.306	96	9235	4.838	ug/l	94
11) Methyl Iodide	2.440	142	10617	4.273	ug/l	96
12) Methyl Acetate	2.709	43	12318	5.061	ug/l	99
13) Acrolein	2.239	56	12071	24.597	ug/l	95
14) Acrylonitrile	3.074	53	26873	23.263	ug/l	99
15) Acetone	2.392	58	8604	26.036	ug/l	100
16) Carbon Disulfide	2.501	76	16871	4.033	ug/l	98
17) Allyl chloride	2.654	41	13330	4.598	ug/l	92
18) Methylene Chloride	2.782	84	11623	5.308	ug/l	90
19) trans-1,2-Dichloroethene	3.087	96	9043	4.729	ug/l	94
20) Diisopropyl ether	3.763	45	28562	4.793	ug/l #	79
21) 1,1-Dichloroethane	3.605	63	16462	4.836	ug/l	97
22) cis-1,2-Dichloroethene	4.489	96	10866	4.694	ug/l	97
23) tert-Butyl Alcohol	3.001	59	8157m	18.001	ug/l	
24) Methyl tert-Butyl Ether	3.117	73	27778	4.704	ug/l	98
25) Chloroform	5.098	83	16903	4.886	ug/l	94
26) Cyclohexane	5.464	56	13835	4.679	ug/l #	97
29) 1,1-Dichloropropene	5.690	75	11108	4.842	ug/l	97
30) 2-Butanone	4.574	43	35936	23.443	ug/l #	98
31) 2,2-Dichloropropane	4.470	77	12041	4.790	ug/l #	74
32) 1,1,1-Trichloroethane	5.373	97	13872m	4.772	ug/l	
33) Carbon Tetrachloride	5.678	117	11165	4.451	ug/l	97
34) Benzene	6.031	78	38137	4.990	ug/l	96
35) Methacrylonitrile	4.928	41	6871	4.463	ug/l	93
36) 1,2-Dichloroethane	6.086	62	11912	5.003	ug/l	98
37) Trichloroethene	7.122	130	10320	4.944	ug/l	99
38) Methylcyclohexane	7.372	83	14410	4.742	ug/l	99
39) 1,2-Dichloropropane	7.433	63	8738	4.800	ug/l	97
40) Dibromomethane	7.586	93	6712	4.984	ug/l	99
41) Bromodichloromethane	7.824	83	10728	4.447	ug/l	94
42) Vinyl Acetate	3.727	43	117104	22.823	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.727	43	13861	4.823	ug/l	97
44) Isopropyl Acetate	6.354	43	19680	4.571	ug/l	99
45) 1,4-Dioxane	7.677	88	5067m	94.935	ug/l	
46) Methyl methacrylate	7.702	41	8865	4.212	ug/l	98
47) n-amyl Acetate	10.847	43	15762	4.080	ug/l	97
48) t-1,3-Dichloropropene	8.982	75	10016	4.032	ug/l	95
49) cis-1,3-Dichloropropene	8.366	75	11515	4.133	ug/l	96
50) 1,1,2-Trichloroethane	9.153	97	9695	4.951	ug/l	97
51) Ethyl methacrylate	9.122	69	13531	4.350	ug/l	96
52) 1,3-Dichloropropane	9.311	76	16097	5.028	ug/l	98
53) Dibromochloromethane	9.518	129	8843	4.127	ug/l	99
54) 1,2-Dibromoethane	9.610	107	9725	4.710	ug/l	98
55) 2-Chloroethyl vinyl ether	8.244	63	32305	22.311	ug/l	99
56) Bromoform	10.799	173	6780	3.880	ug/l	99
58) 4-Methyl-2-Pentanone	8.579	43	68855	23.542	ug/l	99
59) 2-Hexanone	9.433	43	51155	22.660	ug/l	99
61) Tetrachloroethene	9.274	164	10399	5.063	ug/l	98
62) Toluene	8.720	91	41381	5.010	ug/l	100
64) Chlorobenzene	10.079	112	27966	4.972	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.165	131	8789	4.525	ug/l	97
66) Ethyl Benzene	10.195	91	42985	4.760	ug/l	98
67) m/p-Xylenes	10.299	106	34078	9.382	ug/l	94
68) o-Xylene	10.640	106	17022	4.700	ug/l	98
69) Styrene	10.658	104	25771	4.259	ug/l	95
70) Isopropylbenzene	10.963	105	42685	4.688	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	15168	4.813	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	13098m	4.849	ug/l	
73) Bromobenzene	11.201	156	12772	4.809	ug/l	99
74) n-propylbenzene	11.305	91	45019	4.501	ug/l	99
75) 2-Chlorotoluene	11.366	91	30847	4.857	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	34628	4.539	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	3323	3.519	ug/l	93
78) 4-Chlorotoluene	11.457	91	32575	4.617	ug/l	99
79) tert-butylbenzene	11.713	119	36857	4.552	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	33838	4.440	ug/l	99
81) sec-Butylbenzene	11.890	105	42345	4.484	ug/l	99
82) p-Isopropyltoluene	12.006	119	35720	4.316	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	22133	4.674	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	21522	4.566	ug/l	99
85) n-Butylbenzene	12.335	91	25073	3.918	ug/l	99
86) Hexachloroethane	12.536	117	5358	3.964	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	22236	4.643	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	2604	3.995	ug/l	97
89) 1,2,4-Trichlorobenzene	13.591	180	13401	4.134	ug/l	99
90) Hexachlorobutadiene	13.725	225	7619	4.769	ug/l	99
91) Naphthalene	13.780	128	38727	3.954	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	14452	4.304	ug/l	98

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

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