

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010824\
 Data File : VX039664.D
 Acq On : 08 Jan 2024 16:22
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Quant Time: Jan 09 06:02:34 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X010824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Jan 09 05:58:07 2024
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/09/2024
 Supervised By : Mahesh Dadoda 01/09/2024

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

Internal Standards						
1) Bromochloromethane	4.891	128	9130	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	72497	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	85624	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	41030	28.666	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	95.567%		
60) 4-Bromofluorobenzene	11.079	95	54343	28.775	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	95.933%		
63) Toluene-d8	8.647	98	107283	30.475	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.600%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	8063	5.227	ug/l	96
3) Chloromethane	1.294	50	9558	5.577	ug/l	96
4) Vinyl Chloride	1.374	62	9792	5.855	ug/l	100
5) Bromomethane	1.593	94	4950	6.194	ug/l	99
6) Chloroethane	1.660	64	3390	4.463	ug/l	93
7) Trichlorofluoromethane	1.867	101	13686	5.795	ug/l	95
8) Diethyl Ether	2.130	74	5203	5.888	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.325	101	8451	5.842	ug/l	96
10) 1,1-Dichloroethene	2.313	96	7946	5.733	ug/l	94
11) Methyl Iodide	2.447	142	6748	4.443	ug/l	91
12) Methyl Acetate	2.703	43	12838	5.751	ug/l	96
13) Acrolein	2.233	56	13060	39.212	ug/l	99
14) Acrylonitrile	3.062	53	29000	28.329	ug/l	97
15) Acetone	2.386	58	9551	29.580	ug/l	98
16) Carbon Disulfide	2.501	76	20079	5.373	ug/l	100
17) Allyl chloride	2.654	41	15220	5.569	ug/l	89
18) Methylene Chloride	2.782	84	9012	5.562	ug/l	99
19) trans-1,2-Dichloroethene	3.087	96	8480	5.766	ug/l	98
20) Diisopropyl ether	3.763	45	30271	5.674	ug/l	92
21) 1,1-Dichloroethane	3.599	63	17071	5.731	ug/l	97
22) cis-1,2-Dichloroethene	4.483	96	9918	5.769	ug/l	98
23) tert-Butyl Alcohol	3.014	59	10523m	21.826	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	28748	5.659	ug/l	97
25) Chloroform	5.080	83	16373	5.601	ug/l	92
26) Cyclohexane	5.464	56	15027	5.815	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	11903	5.721	ug/l	97
30) 2-Butanone	4.562	43	42486	28.473	ug/l #	97
31) 2,2-Dichloropropane	4.471	77	12353	5.341	ug/l #	86
32) 1,1,1-Trichloroethane	5.367	97	13140	5.465	ug/l #	79
33) Carbon Tetrachloride	5.666	117	9862	5.203	ug/l	96
34) Benzene	6.031	78	36221	5.869	ug/l	97
35) Methacrylonitrile	4.922	41	8062	5.615	ug/l	88
36) 1,2-Dichloroethane	6.086	62	13900	5.743	ug/l #	89
37) Trichloroethene	7.123	130	8389	5.721	ug/l	98
38) Methylcyclohexane	7.373	83	14718	5.782	ug/l	95
39) 1,2-Dichloropropane	7.427	63	10144	6.100	ug/l	97
40) Dibromomethane	7.586	93	6216	5.534	ug/l	97
41) Bromodichloromethane	7.818	83	11219	5.390	ug/l	99
42) Vinyl Acetate	3.715	43	136507	27.669	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	15207	5.437	ug/l	100
44) Isopropyl Acetate	6.342	43	23582	5.454	ug/l	97
45) 1,4-Dioxane	7.671	88	4566	109.536	ug/l	94
46) Methyl methacrylate	7.696	41	11088	5.340	ug/l	93
47) n-amyl Acetate	10.841	43	18792	4.977	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	10925	4.877	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	12575	5.125	ug/l	89
50) 1,1,2-Trichloroethane	9.153	97	8910	5.787	ug/l	97
51) Ethyl methacrylate	9.116	69	13588	5.283	ug/l	96
52) 1,3-Dichloropropane	9.305	76	15438	5.810	ug/l	99
53) Dibromochloromethane	9.519	129	7224	5.041	ug/l	100
54) 1,2-Dibromoethane	9.610	107	8856	5.488	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	35711	28.533	ug/l	98
56) Bromoform	10.799	173	4487	4.649	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	80264	28.498	ug/l	99
59) 2-Hexanone	9.433	43	66759	29.282	ug/l	96
61) Tetrachloroethene	9.269	164	6961	6.137	ug/l	96
62) Toluene	8.714	91	37497	5.907	ug/l	100
64) Chlorobenzene	10.079	112	21507	5.827	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	7274	5.544	ug/l	98
66) Ethyl Benzene	10.195	91	39571	5.677	ug/l	100
67) m/p-Xylenes	10.299	106	28964	11.376	ug/l	95
68) o-Xylene	10.640	106	15013	5.874	ug/l	98
69) Styrene	10.659	104	22082	5.404	ug/l	98
70) Isopropylbenzene	10.963	105	38644	5.728	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	14921	5.758	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	12070m	5.461	ug/l	
73) Bromobenzene	11.195	156	8984	6.032	ug/l	97
74) n-propylbenzene	11.305	91	43723	5.436	ug/l	99
75) 2-Chlorotoluene	11.366	91	28381	5.679	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	32532	5.645	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	3022	4.249	ug/l	84
78) 4-Chlorotoluene	11.457	91	30900	5.575	ug/l	98
79) tert-butylbenzene	11.713	119	30253	5.540	ug/l	94
80) 1,2,4-Trimethylbenzene	11.750	105	31590	5.523	ug/l	99
81) sec-Butylbenzene	11.890	105	37880	5.397	ug/l	100
82) p-Isopropyltoluene	12.006	119	30095	5.388	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	15548	5.585	ug/l	96
84) 1,4-Dichlorobenzene	12.042	146	15421	5.585	ug/l	99
85) n-Butylbenzene	12.335	91	25720	5.031	ug/l	99
86) Hexachloroethane	12.536	117	4712	4.931	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	16517	5.920	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	12.939	75	3206	5.167	ug/l	84
89) 1,2,4-Trichlorobenzene	13.585	180	8181	5.201	ug/l	96
90) Hexachlorobutadiene	13.725	225	4006	5.818	ug/l	96
91) Naphthalene	13.774	128	31022	5.055	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	8687	5.334	ug/l	98

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

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