

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051524\
 Data File : VX041534.D
 Acq On : 15 May 2024 12:43
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 05/16/2024
 Supervised By : Mahesh Dadoda 05/16/2024

Quant Time: May 16 04:58:23 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 16 04:55:13 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	29605	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	163925	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	152990	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	67588	28.991	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	96.633%	
60) 4-Bromofluorobenzene	11.079	95	73897	30.941	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	103.133%	
63) Toluene-d8	8.647	98	195197	29.764	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	99.200%	
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.167	85	157203	101.521	ug/l	99
3) Chloromethane	1.295	50	168709	99.495	ug/l	100
4) Vinyl Chloride	1.374	62	175099	98.080	ug/l	98
5) Bromomethane	1.599	94	118566	104.418	ug/l	98
6) Chloroethane	1.666	64	85035	95.889	ug/l	94
7) Trichlorofluoromethane	1.868	101	257832	95.148	ug/l	97
8) Diethyl Ether	2.136	74	101450	100.252	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.319	101	148611	94.572	ug/l	98
10) 1,1-Dichloroethene	2.307	96	145581	96.114	ug/l	97
11) Methyl Iodide	2.447	142	209013	115.858	ug/l	99
12) Methyl Acetate	2.709	43	233509	102.403	ug/l	97
13) Acrolein	2.240	56	144744	521.202	ug/l	99
14) Acrylonitrile	3.069	53	506747	505.255	ug/l	99
15) Acetone	2.392	58	137427	511.406	ug/l	99
16) Carbon Disulfide	2.502	76	394792	115.441	ug/l	99
17) Allyl chloride	2.660	41	288236	107.232	ug/l	97
18) Methylene Chloride	2.788	84	184791	102.577	ug/l	96
19) trans-1,2-Dichloroethene	3.087	96	173336	99.798	ug/l	98
20) Diisopropyl ether	3.764	45	563052	99.697	ug/l	94
21) 1,1-Dichloroethane	3.605	63	319856	100.912	ug/l	100
22) cis-1,2-Dichloroethene	4.483	96	211693	100.302	ug/l	98
23) tert-Butyl Alcohol	3.014	59	221952	513.921	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	573371	101.394	ug/l	100
25) Chloroform	5.093	83	336887	99.769	ug/l	99
26) Cyclohexane	5.465	56	261262	98.844	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	224117	103.355	ug/l	99
30) 2-Butanone	4.568	43	732274	508.771	ug/l	100
31) 2,2-Dichloropropane	4.471	77	267917	105.275	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	303625	104.354	ug/l	99
33) Carbon Tetrachloride	5.672	117	267519	107.458	ug/l	97
34) Benzene	6.038	78	705399	103.004	ug/l	98
35) Methacrylonitrile	4.928	41	153412	105.663	ug/l	99
36) 1,2-Dichloroethane	6.086	62	262238	102.615	ug/l	99
37) Trichloroethene	7.123	130	196142	102.796	ug/l	99
38) Methylcyclohexane	7.379	83	283360	102.916	ug/l	99
39) 1,2-Dichloropropane	7.428	63	169131	104.477	ug/l	99
40) Dibromomethane	7.580	93	132193	103.757	ug/l	99
41) Bromodichloromethane	7.824	83	259410	108.452	ug/l	99
42) Vinyl Acetate	3.721	43	2649872	530.641	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	282798	101.831	ug/l	99
44) Isopropyl Acetate	6.342	43	448479	106.832	ug/l	99
45) 1,4-Dioxane	7.665	88	97103	2156.854	ug/l	93
46) Methyl methacrylate	7.696	41	225867	108.138	ug/l	98
47) n-amyl Acetate	10.842	43	419929	110.308	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	270263	112.512	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	286198	110.000	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	183789	103.696	ug/l	97
51) Ethyl methacrylate	9.116	69	310566	108.863	ug/l	97
52) 1,3-Dichloropropane	9.311	76	303359	103.579	ug/l	99
53) Dibromochloromethane	9.525	129	226212	112.173	ug/l	99
54) 1,2-Dibromoethane	9.610	107	197776	105.229	ug/l	99
55) 2-Chloroethyl vinyl ether	8.245	63	723638	519.674	ug/l	99
56) Bromoform	10.799	173	188296	116.505	ug/l	100
58) 4-Methyl-2-Pentanone	8.580	43	1447166	517.704	ug/l	98
59) 2-Hexanone	9.433	43	1142649	513.110	ug/l	98
61) Tetrachloroethene	9.269	164	184636	98.641	ug/l	96
62) Toluene	8.720	91	770638	101.232	ug/l	99
64) Chlorobenzene	10.080	112	531186	102.728	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	194703	106.385	ug/l	99
66) Ethyl Benzene	10.195	91	870750	103.008	ug/l	99
67) m/p-Xylenes	10.299	106	697312	210.954	ug/l	100
68) o-Xylene	10.640	106	346291	104.074	ug/l	98
69) Styrene	10.653	104	595088	106.667	ug/l	99
70) Isopropylbenzene	10.964	105	881501	104.843	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.214	83	301710	104.459	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	245672m	96.412	ug/l	
73) Bromobenzene	11.195	156	257228	104.121	ug/l	100
74) n-propylbenzene	11.305	91	999556	105.431	ug/l	99
75) 2-Chlorotoluene	11.366	91	608411	102.194	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	750725	104.609	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	101224	123.638	ug/l	83
78) 4-Chlorotoluene	11.451	91	708044	104.418	ug/l	98
79) tert-butylbenzene	11.713	119	807113	105.670	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	754320	104.867	ug/l	98
81) sec-Butylbenzene	11.890	105	937273	105.014	ug/l	99
82) p-Isopropyltoluene	12.006	119	836333	107.045	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	471461	106.409	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	475838	106.287	ug/l	99
85) n-Butylbenzene	12.329	91	695497	110.625	ug/l	99
86) Hexachloroethane	12.536	117	145788	110.814	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	476849	105.444	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	70672	111.415	ug/l	97
89) 1,2,4-Trichlorobenzene	13.585	180	343296	112.979	ug/l	99
90) Hexachlorobutadiene	13.725	225	160409	108.207	ug/l	98
91) Naphthalene	13.774	128	1025355	112.902	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	348061	112.115	ug/l	99

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

