

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071924\
 Data File : VX042393.D
 Acq On : 19 Jul 2024 10:33
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 07/19/2024
 Supervised By : Mahesh Dadoda 07/22/2024

Quant Time: Jul 19 11:24:54 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X071924W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jul 19 11:18:14 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.903	128	25527	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	161437	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	152505	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	59172	33.673	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 112.233%#			
60) 4-Bromofluorobenzene	11.079	95	71781	30.407	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 101.367%			
63) Toluene-d8	8.647	98	193120	29.598	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.667%			
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.166	85	169894	102.815	ug/l	100
3) Chloromethane	1.300	50	173717	94.045	ug/l	99
4) Vinyl Chloride	1.374	62	175974	97.418	ug/l	100
5) Bromomethane	1.599	94	89899	93.099	ug/l	100
6) Chloroethane	1.666	64	73264	94.930	ug/l	98
7) Trichlorofluoromethane	1.867	101	204066	89.703	ug/l	100
8) Diethyl Ether	2.136	74	92422	93.876	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	170473	110.229	ug/l	99
10) 1,1-Dichloroethene	2.312	96	165617	106.161	ug/l	96
11) Methyl Iodide	2.447	142	202944	99.949	ug/l	97
12) Methyl Acetate	2.709	43	284933	143.255	ug/l	100
13) Acrolein	2.239	56	168661	420.550	ug/l	100
14) Acrylonitrile	3.075	53	522846	553.841	ug/l	98
15) Acetone	2.392	58	132306	489.918	ug/l	100
16) Carbon Disulfide	2.501	76	345615	101.088	ug/l	100
17) Allyl chloride	2.660	41	259232	109.412	ug/l	98
18) Methylene Chloride	2.788	84	187115	104.567	ug/l	96
19) trans-1,2-Dichloroethene	3.087	96	169253	108.302	ug/l	97
20) Diisopropyl ether	3.770	45	556676	114.306	ug/l	92
21) 1,1-Dichloroethane	3.605	63	314388	113.015	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	211804	111.961	ug/l	97
23) tert-Butyl Alcohol	3.007	59	201498	574.102	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	560835	116.215	ug/l	99
25) Chloroform	5.092	83	323664	114.486	ug/l	98
26) Cyclohexane	5.464	56	261894	108.392	ug/l #	100
29) 1,1-Dichloropropene	5.690	75	217288	103.125	ug/l	98
30) 2-Butanone	4.568	43	708692	503.382	ug/l	100
31) 2,2-Dichloropropane	4.471	77	254598	110.277	ug/l	98
32) 1,1,1-Trichloroethane	5.379	97	284012	106.337	ug/l	100
33) Carbon Tetrachloride	5.672	117	250495	108.744	ug/l	97
34) Benzene	6.031	78	706675	100.680	ug/l	99
35) Methacrylonitrile	4.928	41	147765	104.494	ug/l	97
36) 1,2-Dichloroethane	6.086	62	229723	105.058	ug/l	99
37) Trichloroethene	7.123	130	193987	101.182	ug/l	97
38) Methylcyclohexane	7.379	83	280404	100.472	ug/l	98
39) 1,2-Dichloropropane	7.427	63	176521	105.577	ug/l	98
40) Dibromomethane	7.580	93	127124	102.782	ug/l	100
41) Bromodichloromethane	7.824	83	247583	111.736	ug/l	99
42) Vinyl Acetate	3.721	43	2391743	507.539	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	264322	100.132	ug/l	100
44) Isopropyl Acetate	6.348	43	419518	106.105	ug/l	100
45) 1,4-Dioxane	7.665	88	94407	1958.899	ug/l	99
46) Methyl methacrylate	7.696	41	207457	107.316	ug/l	99
47) n-amyl Acetate	10.841	43	389731	109.832	ug/l	97
48) t-1,3-Dichloropropene	8.976	75	257878	113.034	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	282280	110.304	ug/l	100
50) 1,1,2-Trichloroethane	9.153	97	186653	103.787	ug/l	98
51) Ethyl methacrylate	9.116	69	310281	108.606	ug/l	100
52) 1,3-Dichloropropane	9.305	76	302103	102.752	ug/l	99
53) Dibromochloromethane	9.518	129	219791	111.677	ug/l	100
54) 1,2-Dibromoethane	9.610	107	194202	102.400	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	709318	533.406	ug/l	100
56) Bromoform	10.799	173	183827	114.547	ug/l	100
58) 4-Methyl-2-Pentanone	8.580	43	1393342	509.866	ug/l	100
59) 2-Hexanone	9.433	43	1076102	510.183	ug/l	99
61) Tetrachloroethene	9.275	164	183251	95.492	ug/l	98
62) Toluene	8.720	91	769346	99.691	ug/l	100
64) Chlorobenzene	10.079	112	530875	101.019	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.159	131	194441	107.133	ug/l	98
66) Ethyl Benzene	10.195	91	862403	102.215	ug/l	98
67) m/p-Xylenes	10.299	106	688712	202.937	ug/l	98
68) o-Xylene	10.640	106	343506	101.523	ug/l	100
69) Styrene	10.652	104	596211	105.447	ug/l	99
70) Isopropylbenzene	10.963	105	879490	103.379	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	304877	103.549	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	243340m	102.041	ug/l	
73) Bromobenzene	11.195	156	252613	101.798	ug/l	99
74) n-propylbenzene	11.305	91	999818	106.985	ug/l	100
75) 2-Chlorotoluene	11.366	91	607678	102.400	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	741817	104.081	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	99318	112.581	ug/l	88
78) 4-Chlorotoluene	11.451	91	691549	104.903	ug/l	99
79) tert-butylbenzene	11.713	119	805678	106.495	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	751479	105.538	ug/l	99
81) sec-Butylbenzene	11.890	105	946090	107.218	ug/l	100
82) p-Isopropyltoluene	12.006	119	837543	108.314	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	461594	104.325	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	463052	105.139	ug/l	99
85) n-Butylbenzene	12.329	91	685141	114.583	ug/l	99
86) Hexachloroethane	12.536	117	145169	114.959	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	465928	104.125	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.939	75	67175	110.304	ug/l	97
89) 1,2,4-Trichlorobenzene	13.585	180	333901	110.234	ug/l	100
90) Hexachlorobutadiene	13.725	225	157780	105.709	ug/l	97
91) Naphthalene	13.774	128	1002426	109.527	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	339609	108.260	ug/l	98

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

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