

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX051524\
 Data File : VX041539.D
 Acq On : 15 May 2024 15:08
 Operator : JC/MD
 Sample : VX0515WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0515WBSD01

Manual Integrations
 APPROVED

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

Quant Time: May 16 05:25:49 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X051524W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu May 16 05:13:13 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.891	128	25838	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	140894	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	129755	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	59623	29.303	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	97.667%		
60) 4-Bromofluorobenzene	11.079	95	62078	30.647	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	102.167%		
63) Toluene-d8	8.647	98	167156	30.053	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	100.167%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	28979	21.443	ug/l	100
3) Chloromethane	1.294	50	29702	20.070	ug/l	99
4) Vinyl Chloride	1.374	62	29007	18.617	ug/l	99
5) Bromomethane	1.599	94	19079	19.252	ug/l	98
6) Chloroethane	1.666	64	15719	19.954	ug/l	94
7) Trichlorofluoromethane	1.867	101	47847	20.231	ug/l	99
8) Diethyl Ether	2.136	74	18874	21.370	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	31190	22.742	ug/l	97
10) 1,1-Dichloroethene	2.306	96	29318	22.178	ug/l	94
11) Methyl Iodide	2.440	142	30846	19.591	ug/l	96
12) Methyl Acetate	2.703	43	45694	22.951	ug/l	97
13) Acrolein	2.239	56	27612	113.923	ug/l	98
14) Acrylonitrile	3.068	53	94889	108.403	ug/l	98
15) Acetone	2.392	58	27852	118.756	ug/l	99
16) Carbon Disulfide	2.501	76	63760	21.362	ug/l	98
17) Allyl chloride	2.654	41	50596	21.567	ug/l	99
18) Methylene Chloride	2.782	84	34038	21.649	ug/l	91
19) trans-1,2-Dichloroethene	3.081	96	30891	20.378	ug/l	96
20) Diisopropyl ether	3.763	45	103815	21.062	ug/l	94
21) 1,1-Dichloroethane	3.605	63	56553	20.443	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	38090	20.679	ug/l	97
23) tert-Butyl Alcohol	3.007	59	42441	114.253	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	104967	21.268	ug/l	98
25) Chloroform	5.086	83	60124	20.402	ug/l	98
26) Cyclohexane	5.458	56	47590	20.630	ug/l #	98
29) 1,1-Dichloropropene	5.684	75	39445	21.164	ug/l	99
30) 2-Butanone	4.562	43	144186	116.553	ug/l	99
31) 2,2-Dichloropropane	4.471	77	46132	21.090	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	52306	20.916	ug/l	99
33) Carbon Tetrachloride	5.666	117	45198	21.123	ug/l	97
34) Benzene	6.031	78	126233	21.446	ug/l	98
35) Methacrylonitrile	4.922	41	28324	22.697	ug/l	98
36) 1,2-Dichloroethane	6.080	62	48327	22.002	ug/l	99
37) Trichloroethene	7.123	130	34928	21.298	ug/l	96
38) Methylcyclohexane	7.373	83	52545	22.204	ug/l	100
39) 1,2-Dichloropropane	7.427	63	30236	21.731	ug/l	99
40) Dibromomethane	7.580	93	23930	21.853	ug/l	99
41) Bromodichloromethane	7.818	83	43361	21.091	ug/l	100
42) Vinyl Acetate	3.721	43	476427	111.000	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	52598	22.036	ug/l	99
44) Isopropyl Acetate	6.342	43	79336	21.988	ug/l	99
45) 1,4-Dioxane	7.671	88	18435	453.039	ug/l	96
46) Methyl methacrylate	7.696	41	40441	22.527	ug/l	99
47) n-amyl Acetate	10.841	43	69172	21.141	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	43060	20.856	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	46942	20.991	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	32908	21.602	ug/l	98
51) Ethyl methacrylate	9.116	69	52410	21.374	ug/l	97
52) 1,3-Dichloropropane	9.305	76	55484	22.041	ug/l	99
53) Dibromochloromethane	9.518	129	36297	20.941	ug/l	99
54) 1,2-Dibromoethane	9.610	107	35846	22.190	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	119553	99.890	ug/l	99
56) Bromoform	10.799	173	29000	20.883	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	276909	116.799	ug/l	99
59) 2-Hexanone	9.433	43	217901	115.371	ug/l	99
61) Tetrachloroethene	9.269	164	34830	21.940	ug/l	95
62) Toluene	8.714	91	140835	21.813	ug/l	100
64) Chlorobenzene	10.079	112	96462	21.996	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.159	131	33108	21.329	ug/l	99
66) Ethyl Benzene	10.195	91	155636	21.708	ug/l	100
67) m/p-Xylenes	10.299	106	125028	44.597	ug/l	99
68) o-Xylene	10.640	106	62078	21.998	ug/l	98
69) Styrene	10.652	104	104386	22.061	ug/l	99
70) Isopropylbenzene	10.963	105	159165	22.321	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	54505	22.250	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	45326m	20.517	ug/l	
73) Bromobenzene	11.195	156	45539	21.734	ug/l	100
74) n-propylbenzene	11.305	91	177949	22.131	ug/l	99
75) 2-Chlorotoluene	11.366	91	111384	22.059	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	133197	21.884	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	14392	20.727	ug/l	92
78) 4-Chlorotoluene	11.451	91	125183	21.767	ug/l	98
79) tert-butylbenzene	11.713	119	140751	21.727	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	132900	21.784	ug/l	97
81) sec-Butylbenzene	11.890	105	166167	21.952	ug/l	100
82) p-Isopropyltoluene	12.006	119	145562	21.967	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	82916	22.065	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	83526	21.998	ug/l	100
85) n-Butylbenzene	12.329	91	114500	21.474	ug/l	99
86) Hexachloroethane	12.536	117	23152	20.753	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	82981	21.635	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	12144	22.573	ug/l	99
89) 1,2,4-Trichlorobenzene	13.585	180	56873	22.069	ug/l	99
90) Hexachlorobutadiene	13.725	225	27747	22.069	ug/l	99
91) Naphthalene	13.774	128	173935	22.581	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	59545	22.615	ug/l	100

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

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