

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062024\
 Data File : VX041953.D
 Acq On : 20 Jun 2024 10:03
 Operator : JC/MD
 Sample : VX0620WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0620WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/21/2024
 Supervised By : Mahesh Dadoda 06/21/2024

Quant Time: Jun 21 03:13:03 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061424W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 15 04:02:59 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.898	128	30819	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	174340	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	163252	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	64251	30.285	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.933%			
60) 4-Bromofluorobenzene	11.079	95	76379	30.225	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.733%			
63) Toluene-d8	8.647	98	211320	30.256	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.867%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.167	85	38048	19.072	ug/l	94
3) Chloromethane	1.301	50	40490	18.156	ug/l	97
4) Vinyl Chloride	1.374	62	39984	18.334	ug/l	99
5) Bromomethane	1.599	94	21420	18.374	ug/l	100
6) Chloroethane	1.666	64	22706	24.369	ug/l	96
7) Trichlorofluoromethane	1.874	101	55974	20.380	ug/l	96
8) Diethyl Ether	2.136	74	22628	19.037	ug/l	98
9) 1,1,2-Trichlorotrifluo...	2.319	101	35791	19.169	ug/l	98
10) 1,1-Dichloroethene	2.313	96	34515	18.325	ug/l	92
11) Methyl Iodide	2.447	142	43459	17.728	ug/l	97
12) Methyl Acetate	2.709	43	46104	19.199	ug/l	100
13) Acrolein	2.239	56	44873	92.677	ug/l	100
14) Acrylonitrile	3.069	53	106055	93.052	ug/l	97
15) Acetone	2.386	58	36425	111.718	ug/l	99
16) Carbon Disulfide	2.502	76	72703	17.613	ug/l	99
17) Allyl chloride	2.660	41	56080	19.605	ug/l	98
18) Methylene Chloride	2.788	84	39384	18.230	ug/l	95
19) trans-1,2-Dichloroethene	3.087	96	34587	18.331	ug/l	99
20) Diisopropyl ether	3.764	45	111754	19.007	ug/l	95
21) 1,1-Dichloroethane	3.605	63	62522	18.616	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	41914	18.351	ug/l	97
23) tert-Butyl Alcohol	2.989	59	39596	93.444	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	107320	18.420	ug/l	100
25) Chloroform	5.087	83	64464	18.887	ug/l	99
26) Cyclohexane	5.465	56	53589	18.371	ug/l #	99
29) 1,1-Dichloropropene	5.684	75	43756	19.230	ug/l	97
30) 2-Butanone	4.562	43	152298	100.171	ug/l	99
31) 2,2-Dichloropropane	4.471	77	48046	19.270	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	54509	18.898	ug/l	99
33) Carbon Tetrachloride	5.672	117	46009	18.495	ug/l	96
34) Benzene	6.031	78	142762	18.834	ug/l	100
35) Methacrylonitrile	4.922	41	28882	18.913	ug/l	93
36) 1,2-Dichloroethane	6.086	62	46165	19.550	ug/l	98
37) Trichloroethene	7.123	130	37814	18.264	ug/l	99
38) Methylcyclohexane	7.379	83	56839	18.859	ug/l	99
39) 1,2-Dichloropropane	7.428	63	33516	18.562	ug/l	95
40) Dibromomethane	7.580	93	25265	18.915	ug/l	98
41) Bromodichloromethane	7.824	83	44884	18.757	ug/l	99
42) Vinyl Acetate	3.721	43	489414	96.169	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	52548	18.433	ug/l	100
44) Isopropyl Acetate	6.342	43	79703	18.667	ug/l	98
45) 1,4-Dioxane	7.665	88	18234m	350.345	ug/l	
46) Methyl methacrylate	7.696	41	39222	18.788	ug/l	99
47) n-amyl Acetate	10.842	43	70869	18.494	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	45369	18.415	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	52287	18.920	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	37268	19.189	ug/l	98
51) Ethyl methacrylate	9.116	69	56579	18.338	ug/l	98
52) 1,3-Dichloropropane	9.305	76	60462	19.042	ug/l	99
53) Dibromochloromethane	9.519	129	39678	18.669	ug/l	98
54) 1,2-Dibromoethane	9.610	107	39178	19.129	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	148641	103.505	ug/l	99
56) Bromoform	10.799	173	30964	17.866	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	280380	95.845	ug/l	100
59) 2-Hexanone	9.433	43	225556	99.897	ug/l	99
61) Tetrachloroethene	9.275	164	38512	18.747	ug/l	98
62) Toluene	8.714	91	157163	19.024	ug/l	100
64) Chlorobenzene	10.080	112	107094	19.037	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.159	131	36175	18.620	ug/l	100
66) Ethyl Benzene	10.195	91	171534	18.992	ug/l	98
67) m/p-Xylenes	10.299	106	138759	38.195	ug/l	98
68) o-Xylene	10.640	106	67496	18.635	ug/l	100
69) Styrene	10.653	104	114810	18.969	ug/l	99
70) Isopropylbenzene	10.964	105	176866	19.421	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	59789	18.970	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	48807m	19.119	ug/l	
73) Bromobenzene	11.195	156	48863	18.395	ug/l	99
74) n-propylbenzene	11.305	91	193806	19.373	ug/l	100
75) 2-Chlorotoluene	11.366	91	122853	19.339	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	146384	19.187	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	16126	17.076	ug/l	97
78) 4-Chlorotoluene	11.451	91	135188	19.157	ug/l	99
79) tert-butylbenzene	11.713	119	152456	18.825	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	147528	19.355	ug/l	97
81) sec-Butylbenzene	11.890	105	183858	19.465	ug/l	99
82) p-Isopropyltoluene	12.006	119	158822	19.187	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	88144	18.610	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	87947	18.654	ug/l	99
85) n-Butylbenzene	12.329	91	121394	18.965	ug/l	99
86) Hexachloroethane	12.536	117	25216	18.654	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	89009	18.582	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.945	75	11718	17.975	ug/l	97
89) 1,2,4-Trichlorobenzene	13.585	180	57810	17.829	ug/l	98
90) Hexachlorobutadiene	13.725	225	31003	19.404	ug/l	99
91) Naphthalene	13.774	128	173962	17.756	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	61203	18.226	ug/l	99

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

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