

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX062424\
 Data File : VX041996.D
 Acq On : 24 Jun 2024 11:45
 Operator : JC/MD
 Sample : VX0624WBS01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0624WBS01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/25/2024
 Supervised By : Mahesh Dadoda 06/25/2024

Quant Time: Jun 25 05:55:48 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	4.904	128	29365	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	151317	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	144452	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	60417	29.888	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.633%
60) 4-Bromofluorobenzene	11.079	95	65844	29.447	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.167%
63) Toluene-d8	8.647	98	182624	29.550	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.500%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	30199	15.887	ug/l	96
3) Chloromethane	1.301	50	36952	17.390	ug/l	100
4) Vinyl Chloride	1.374	62	32715	15.744	ug/l	99
5) Bromomethane	1.599	94	19901	17.916	ug/l	96
6) Chloroethane	1.666	64	17922	20.187	ug/l	100
7) Trichlorofluoromethane	1.874	101	44275	16.919	ug/l	99
8) Diethyl Ether	2.136	74	22019	19.442	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.319	101	29720	16.706	ug/l	99
10) 1,1-Dichloroethene	2.306	96	29197	16.269	ug/l	97
11) Methyl Iodide	2.441	142	38727	16.580	ug/l	99
12) Methyl Acetate	2.709	43	48904	21.374	ug/l	96
13) Acrolein	2.239	56	42500	92.122	ug/l	100
14) Acrylonitrile	3.068	53	107982	99.433	ug/l	97
15) Acetone	2.392	58	28089	90.417	ug/l	99
16) Carbon Disulfide	2.502	76	62629	15.924	ug/l	99
17) Allyl chloride	2.660	41	51102	18.749	ug/l	97
18) Methylene Chloride	2.782	84	39147	19.018	ug/l	94
19) trans-1,2-Dichloroethene	3.087	96	31474	17.507	ug/l	100
20) Diisopropyl ether	3.763	45	110309	19.690	ug/l	93
21) 1,1-Dichloroethane	3.605	63	59209	18.502	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	40014	18.387	ug/l	98
23) tert-Butyl Alcohol	2.995	59	37062	91.795	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	112530	20.271	ug/l	99
25) Chloroform	5.086	83	60972	18.748	ug/l	99
26) Cyclohexane	5.458	56	44695	16.081	ug/l #	100
29) 1,1-Dichloropropene	5.690	75	36453	18.458	ug/l	99
30) 2-Butanone	4.568	43	151928	115.131	ug/l	100
31) 2,2-Dichloropropane	4.471	77	40503	18.717	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	48201	19.254	ug/l	100
33) Carbon Tetrachloride	5.672	117	40653	18.828	ug/l	99
34) Benzene	6.037	78	132747	20.177	ug/l	98
35) Methacrylonitrile	4.928	41	29912	22.567	ug/l	93
36) 1,2-Dichloroethane	6.086	62	45917	22.403	ug/l	99
37) Trichloroethene	7.123	130	34796	19.363	ug/l	96
38) Methylcyclohexane	7.379	83	47816	18.279	ug/l	98
39) 1,2-Dichloropropane	7.427	63	32697	20.864	ug/l	97
40) Dibromomethane	7.580	93	25802	22.256	ug/l	98
41) Bromodichloromethane	7.824	83	44777	21.560	ug/l	97
42) Vinyl Acetate	3.721	43	502913	113.858	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	55904	22.594	ug/l	100
44) Isopropyl Acetate	6.342	43	83089	22.421	ug/l	98
45) 1,4-Dioxane	7.665	88	21850m	483.698	ug/l	
46) Methyl methacrylate	7.696	41	40738	22.483	ug/l	96
47) n-amyl Acetate	10.841	43	70131	21.086	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	44633	20.872	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	50253	20.950	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	36879	21.878	ug/l	97
51) Ethyl methacrylate	9.116	69	58155	21.717	ug/l	99
52) 1,3-Dichloropropane	9.305	76	60599	21.989	ug/l	99
53) Dibromochloromethane	9.519	129	39660	21.499	ug/l	99
54) 1,2-Dibromoethane	9.610	107	39675	22.319	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	137818	110.570	ug/l	100
56) Bromoform	10.799	173	31771	21.121	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	293858	113.526	ug/l	99
59) 2-Hexanone	9.433	43	223109	111.674	ug/l	100
61) Tetrachloroethene	9.275	164	33069	18.193	ug/l	99
62) Toluene	8.720	91	140322	19.196	ug/l	100
64) Chlorobenzene	10.079	112	96820	19.451	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	35135	20.438	ug/l	98
66) Ethyl Benzene	10.195	91	149131	18.661	ug/l	99
67) m/p-Xylenes	10.299	106	121087	37.669	ug/l	99
68) o-Xylene	10.640	106	60890	18.999	ug/l	100
69) Styrene	10.652	104	102923	19.218	ug/l	99
70) Isopropylbenzene	10.963	105	149456	18.547	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	59769	21.432	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	49267m	21.811	ug/l	
73) Bromobenzene	11.195	156	46198	19.655	ug/l	98
74) n-propylbenzene	11.305	91	163187	18.435	ug/l	100
75) 2-Chlorotoluene	11.366	91	106646	18.973	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	128293	19.004	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	16428	19.660	ug/l	96
78) 4-Chlorotoluene	11.451	91	117579	18.830	ug/l	99
79) tert-butylbenzene	11.713	119	134660	18.792	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	130003	19.276	ug/l	98
81) sec-Butylbenzene	11.890	105	155220	18.571	ug/l	100
82) p-Isopropyltoluene	12.006	119	134990	18.431	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	79377	18.940	ug/l	100
84) 1,4-Dichlorobenzene	12.042	146	79983	19.173	ug/l	99
85) n-Butylbenzene	12.329	91	100792	17.796	ug/l	100
86) Hexachloroethane	12.536	117	21449	17.932	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	83868	19.788	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	12255	21.245	ug/l	100
89) 1,2,4-Trichlorobenzene	13.585	180	54871	19.125	ug/l	98
90) Hexachlorobutadiene	13.725	225	26415	18.684	ug/l	99
91) Naphthalene	13.774	128	179964	20.759	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	59522	20.032	ug/l	99

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

