

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061424\
 Data File : VX041879.D
 Acq On : 14 Jun 2024 15:44
 Operator : JC/MD
 Sample : VX0614WBS02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0614WBS02

Manual Integrations
 APPROVED

Reviewed By : John Carlone 06/17/2024
 Supervised By : Mahesh Dadoda 06/17/2024

Quant Time: Jun 15 04:11:39 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	4.897	128	31494	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	175775	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	164722	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	62316	28.743	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	95.800%		
60) 4-Bromofluorobenzene	11.079	95	76759	30.104	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	100.333%		
63) Toluene-d8	8.647	98	208909	29.643	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.800%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	41922	20.563	ug/l	96
3) Chloromethane	1.301	50	45878	20.131	ug/l	99
4) Vinyl Chloride	1.374	62	44334	19.893	ug/l	100
5) Bromomethane	1.593	94	22364	18.772	ug/l	98
6) Chloroethane	1.660	64	19075	20.033	ug/l	97
7) Trichlorofluoromethane	1.867	101	55428	19.749	ug/l	98
8) Diethyl Ether	2.136	74	24072	19.818	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.313	101	38099	19.968	ug/l	99
10) 1,1-Dichloroethene	2.306	96	37932	19.708	ug/l	91
11) Methyl Iodide	2.441	142	46963	18.747	ug/l	99
12) Methyl Acetate	2.709	43	47965	19.546	ug/l	100
13) Acrolein	2.239	56	52950	107.014	ug/l	99
14) Acrylonitrile	3.068	53	114078	97.946	ug/l	98
15) Acetone	2.392	58	33009	99.071	ug/l	93
16) Carbon Disulfide	2.495	76	82841	19.639	ug/l	100
17) Allyl chloride	2.654	41	57630	19.715	ug/l	97
18) Methylene Chloride	2.782	84	42354	19.185	ug/l	99
19) trans-1,2-Dichloroethene	3.087	96	38085	19.753	ug/l	98
20) Diisopropyl ether	3.763	45	120078	19.985	ug/l	93
21) 1,1-Dichloroethane	3.605	63	66979	19.516	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	46110	19.756	ug/l	98
23) tert-Butyl Alcohol	3.001	59	40582	93.718	ug/l #	100
24) Methyl tert-Butyl Ether	3.123	73	117651	19.760	ug/l	100
25) Chloroform	5.093	83	69272	19.860	ug/l	98
26) Cyclohexane	5.464	56	59874	20.085	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	46038	20.067	ug/l	99
30) 2-Butanone	4.568	43	157836	102.966	ug/l	100
31) 2,2-Dichloropropane	4.471	77	52474	20.875	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	58827	20.229	ug/l	100
33) Carbon Tetrachloride	5.672	117	50334	20.068	ug/l	95
34) Benzene	6.037	78	156734	20.508	ug/l	98
35) Methacrylonitrile	4.928	41	31899	20.718	ug/l	95
36) 1,2-Dichloroethane	6.086	62	47481	19.943	ug/l	99
37) Trichloroethene	7.123	130	42651	20.432	ug/l	99
38) Methylcyclohexane	7.373	83	63666	20.951	ug/l	98
39) 1,2-Dichloropropane	7.427	63	36377	19.982	ug/l	98
40) Dibromomethane	7.580	93	27104	20.126	ug/l	98
41) Bromodichloromethane	7.824	83	48136	19.952	ug/l	100
42) Vinyl Acetate	3.721	43	530408	103.374	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	57945	20.160	ug/l	96
44) Isopropyl Acetate	6.348	43	87288	20.276	ug/l	100
45) 1,4-Dioxane	7.671	88	21306m	406.028	ug/l	
46) Methyl methacrylate	7.696	41	43031	20.444	ug/l	99
47) n-amyl Acetate	10.841	43	77820	20.142	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	49209	19.810	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	56663	20.336	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	40830	20.851	ug/l	97
51) Ethyl methacrylate	9.116	69	63556	20.432	ug/l	99
52) 1,3-Dichloropropane	9.311	76	66134	20.659	ug/l	99
53) Dibromochloromethane	9.519	129	42724	19.938	ug/l	99
54) 1,2-Dibromoethane	9.610	107	42622	20.641	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	162543	112.262	ug/l	99
56) Bromoform	10.799	173	33878	19.388	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	307702	104.246	ug/l	99
59) 2-Hexanone	9.433	43	236479	103.800	ug/l	100
61) Tetrachloroethene	9.275	164	42021	20.273	ug/l	98
62) Toluene	8.714	91	171467	20.571	ug/l	100
64) Chlorobenzene	10.079	112	116662	20.553	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	40265	20.540	ug/l	99
66) Ethyl Benzene	10.195	91	187701	20.597	ug/l	100
67) m/p-Xylenes	10.299	106	152925	41.719	ug/l	98
68) o-Xylene	10.640	106	75785	20.737	ug/l	97
69) Styrene	10.659	104	125631	20.571	ug/l	99
70) Isopropylbenzene	10.963	105	194500	21.167	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	64853	20.393	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	50838m	19.737	ug/l	
73) Bromobenzene	11.201	156	54835	20.459	ug/l	100
74) n-propylbenzene	11.305	91	210307	20.835	ug/l	100
75) 2-Chlorotoluene	11.366	91	134283	20.950	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	161997	21.043	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	18104	19.000	ug/l	93
78) 4-Chlorotoluene	11.457	91	148786	20.896	ug/l	99
79) tert-butylbenzene	11.713	119	171315	20.965	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	160111	20.818	ug/l	99
81) sec-Butylbenzene	11.890	105	197966	20.771	ug/l	100
82) p-Isopropyltoluene	12.006	119	175163	20.973	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	97836	20.472	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	98014	20.604	ug/l	99
85) n-Butylbenzene	12.335	91	131761	20.401	ug/l	99
86) Hexachloroethane	12.536	117	26748	19.611	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	99220	20.529	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	12993	19.753	ug/l	98
89) 1,2,4-Trichlorobenzene	13.585	180	66074	20.196	ug/l	99
90) Hexachlorobutadiene	13.725	225	32947	20.437	ug/l	97
91) Naphthalene	13.774	128	197840	20.013	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	68412	20.191	ug/l	99

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

