

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011823\
 Data File : VX033780.D
 Acq On : 18 Jan 2023 17:28
 Operator : JC/MD
 Sample : VX0118WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0118WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/19/2023
 Supervised By : Mahesh Dadoda 01/19/2023

Quant Time: Jan 19 03:32:27 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 18 14:40:07 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.897	128	15778	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	107075	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	115254	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	36281	29.714	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.033%		
60) 4-Bromofluorobenzene	11.079	95	62664	30.413	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	101.367%		
63) Toluene-d8	8.647	98	111540	30.333	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	101.100%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	29999	20.754	ug/l	100
3) Chloromethane	1.294	50	33680	20.720	ug/l	97
4) Vinyl Chloride	1.374	62	32063	20.096	ug/l	99
5) Bromomethane	1.617	94	19728	19.181	ug/l	97
6) Chloroethane	1.691	64	17470	20.470	ug/l	98
7) Trichlorofluoromethane	1.892	101	48421	20.526	ug/l	99
8) Diethyl Ether	2.130	74	18314	20.598	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	28541	19.993	ug/l	99
10) 1,1-Dichloroethene	2.319	96	28416	20.264	ug/l	99
11) Methyl Iodide	2.453	142	42212	19.953	ug/l	99
12) Methyl Acetate	2.703	43	54123	22.118	ug/l	98
13) Acrolein	2.239	56	24530	89.627	ug/l	96
14) Acrylonitrile	3.062	53	88072	110.475	ug/l	99
15) Acetone	2.386	58	25517	106.447	ug/l	97
16) Carbon Disulfide	2.514	76	68217	19.844	ug/l	100
17) Allyl chloride	2.666	41	52301	20.664	ug/l	98
18) Methylene Chloride	2.788	84	32938	20.862	ug/l	96
19) trans-1,2-Dichloroethene	3.093	96	31005	20.538	ug/l	97
20) Diisopropyl ether	3.757	45	104149	20.992	ug/l	99
21) 1,1-Dichloroethane	3.611	63	56201	20.700	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	36211	20.414	ug/l	99
23) tert-Butyl Alcohol	2.983	59	27464	99.694	ug/l #	1
24) Methyl tert-Butyl Ether	3.111	73	96571	20.800	ug/l	97
25) Chloroform	5.099	83	57452	21.041	ug/l	94
26) Cyclohexane	5.470	56	49394	19.964	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	40376	19.632	ug/l	99
30) 2-Butanone	4.556	43	122306	107.639	ug/l	100
31) 2,2-Dichloropropane	4.477	77	37310	19.128	ug/l	98
32) 1,1,1-Trichloroethane	5.385	97	47729	20.153	ug/l	99
33) Carbon Tetrachloride	5.678	117	41618	19.633	ug/l	95
34) Benzene	6.037	78	124617	20.416	ug/l	98
35) Methacrylonitrile	4.922	41	25846	20.888	ug/l	94
36) 1,2-Dichloroethane	6.086	62	43676	20.343	ug/l	100
37) Trichloroethene	7.129	130	36321	21.070	ug/l	99
38) Methylcyclohexane	7.379	83	49762	20.110	ug/l	98
39) 1,2-Dichloropropane	7.434	63	31717	21.226	ug/l	98
40) Dibromomethane	7.580	93	22626	21.303	ug/l	95
41) Bromodichloromethane	7.824	83	41267	20.364	ug/l	99
42) Vinyl Acetate	3.721	43	399584	104.661	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	44262	19.927	ug/l	99
44) Isopropyl Acetate	6.342	43	70992	21.019	ug/l	100
45) 1,4-Dioxane	7.690	88	13851	396.811	ug/l #	94
46) Methyl methacrylate	7.690	41	36173	21.093	ug/l	95
47) n-amyl Acetate	10.841	43	58769	20.627	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	41769	19.565	ug/l	96
49) cis-1,3-Dichloropropene	8.366	75	47006	19.506	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	33126	21.025	ug/l	98
51) Ethyl methacrylate	9.116	69	48459	20.759	ug/l	93
52) 1,3-Dichloropropane	9.305	76	55536	20.915	ug/l	98
53) Dibromochloromethane	9.519	129	34950	20.310	ug/l	99
54) 1,2-Dibromoethane	9.610	107	35042	20.589	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	107894	98.447	ug/l	99
56) Bromoform	10.799	173	26953	20.181	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	231748	111.866	ug/l	97
59) 2-Hexanone	9.433	43	174670	112.215	ug/l	97
61) Tetrachloroethene	9.275	164	32201	21.218	ug/l	97
62) Toluene	8.720	91	137083	21.263	ug/l	99
64) Chlorobenzene	10.079	112	89383	20.797	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	33214	20.754	ug/l	98
66) Ethyl Benzene	10.195	91	152208	20.630	ug/l	97
67) m/p-Xylenes	10.299	106	121823	41.811	ug/l	96
68) o-Xylene	10.640	106	60437	20.917	ug/l	99
69) Styrene	10.659	104	98482	20.721	ug/l	99
70) Isopropylbenzene	10.963	105	155469	20.889	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	50156	22.476	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	45032m	22.148	ug/l	
73) Bromobenzene	11.195	156	42268	20.971	ug/l	98
74) n-propylbenzene	11.305	91	173795	20.557	ug/l	100
75) 2-Chlorotoluene	11.366	91	105635	21.004	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	129963	21.056	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	12562	20.108	ug/l	97
78) 4-Chlorotoluene	11.457	91	119131	21.056	ug/l	100
79) tert-butylbenzene	11.713	119	133229	21.089	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	127888	20.899	ug/l	99
81) sec-Butylbenzene	11.890	105	158135	20.571	ug/l	100
82) p-Isopropyltoluene	12.012	119	138670	20.824	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	76025	20.877	ug/l	100
84) 1,4-Dichlorobenzene	12.042	146	76653	21.001	ug/l	99
85) n-Butylbenzene	12.329	91	109207	20.164	ug/l	99
86) Hexachloroethane	12.536	117	20977	19.929	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	76203	21.709	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	9174	20.088	ug/l	93
89) 1,2,4-Trichlorobenzene	13.591	180	50988	20.876	ug/l	99
90) Hexachlorobutadiene	13.725	225	23057	20.133	ug/l	99
91) Naphthalene	13.774	128	155855	21.769	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	52082	21.741	ug/l	99

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

