

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011422\
 Data File : VX026447.D
 Acq On : 14 Jan 2022 11:52
 Operator : JC/MD
 Sample : VX0114WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0114WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/17/2022
 Supervised By : Mahesh Dadoda 01/18/2022

Quant Time: Jan 17 05:55:53 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011022W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jan 10 12:50:55 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	16857	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	92903	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	82129	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	41513	30.626	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 102.100%			
60) 4-Bromofluorobenzene	11.079	95	42731	31.176	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 103.933%			
63) Toluene-d8	8.653	98	110700	29.341	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 97.800%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	22398	22.060	ug/l	99
3) Chloromethane	1.294	50	18969	21.384	ug/l	97
4) Vinyl Chloride	1.374	62	20399	20.802	ug/l	99
5) Bromomethane	1.618	94	10038	22.736	ug/l	95
6) Chloroethane	1.691	64	11761	21.136	ug/l	98
7) Trichlorofluoromethane	1.892	101	31991	20.585	ug/l	99
8) Diethyl Ether	2.136	74	11870	21.406	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.331	101	21043	21.694	ug/l	97
10) 1,1-Dichloroethene	2.325	96	19089	21.066	ug/l	96
11) Methyl Iodide	2.459	142	22879	23.248	ug/l	96
12) Methyl Acetate	2.709	43	42788	22.540	ug/l	99
13) Acrolein	2.239	56	19487	99.052	ug/l	98
14) Acrylonitrile	3.068	53	61725	116.571	ug/l	98
15) Acetone	2.386	58	22103	132.889	ug/l	98
16) Carbon Disulfide	2.514	76	52406	20.480	ug/l	100
17) Allyl chloride	2.666	41	36842	21.126	ug/l	99
18) Methylene Chloride	2.794	84	22294	22.338	ug/l	95
19) trans-1,2-Dichloroethene	3.093	96	20714	21.266	ug/l	93
20) Diisopropyl ether	3.764	45	73215	21.602	ug/l	98
21) 1,1-Dichloroethane	3.611	63	39854	21.358	ug/l	99
22) cis-1,2-Dichloroethene	4.495	96	24214	21.248	ug/l	98
23) tert-Butyl Alcohol	2.977	59	23119	120.374	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	72157	21.413	ug/l	100
25) Chloroform	5.099	83	41278	21.349	ug/l	95
26) Cyclohexane	5.471	56	36057	21.125	ug/l #	99
29) 1,1-Dichloropropene	5.696	75	30702	21.397	ug/l	99
30) 2-Butanone	4.562	43	97878	117.459	ug/l	99
31) 2,2-Dichloropropane	4.477	77	28858	19.417	ug/l	98
32) 1,1,1-Trichloroethane	5.385	97	35871	20.535	ug/l	98
33) Carbon Tetrachloride	5.678	117	31715	20.493	ug/l	98
34) Benzene	6.044	78	85293	21.438	ug/l	100
35) Methacrylonitrile	4.928	41	19530	22.368	ug/l	99
36) 1,2-Dichloroethane	6.092	62	34748	21.624	ug/l	100
37) Trichloroethene	7.123	130	24297	21.145	ug/l	96
38) Methylcyclohexane	7.379	83	36443	21.193	ug/l	99
39) 1,2-Dichloropropane	7.434	63	21908	21.534	ug/l	96
40) Dibromomethane	7.580	93	15871	22.206	ug/l	99
41) Bromodichloromethane	7.824	83	31821	21.573	ug/l	98
42) Vinyl Acetate	3.727	43	279583	108.292	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	34123	22.523	ug/l	100
44) Isopropyl Acetate	6.342	43	54680	21.866	ug/l	99
45) 1,4-Dioxane	7.684	88	10244	528.532	ug/l	94
46) Methyl methacrylate	7.690	41	26794	21.844	ug/l	98
47) n-amyl Acetate	10.842	43	41813	22.348	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	30981	21.035	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	33898	20.814	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	21937	22.323	ug/l	96
51) Ethyl methacrylate	9.116	69	35027	22.355	ug/l	97
52) 1,3-Dichloropropane	9.311	76	38195	22.428	ug/l	98
53) Dibromochloromethane	9.525	129	23571	22.070	ug/l	99
54) 1,2-Dibromoethane	9.610	107	22684	21.766	ug/l	96
55) 2-Chloroethyl vinyl ether	8.244	63	92423	110.272	ug/l	99
56) Bromoform	10.799	173	16092	22.696	ug/l	100
58) 4-Methyl-2-Pentanone	8.574	43	178505	116.524	ug/l	99
59) 2-Hexanone	9.433	43	138496	116.758	ug/l	99
61) Tetrachloroethene	9.275	164	24974	20.631	ug/l	98
62) Toluene	8.720	91	92425	21.079	ug/l	99
64) Chlorobenzene	10.079	112	56399	21.187	ug/l	95
65) 1,1,1,2-Tetrachloroethane	10.165	131	21589	21.298	ug/l	99
66) Ethyl Benzene	10.195	91	104026	21.204	ug/l	98
67) m/p-Xylenes	10.305	106	79207	43.456	ug/l	99
68) o-Xylene	10.640	106	38912	22.011	ug/l	99
69) Styrene	10.659	104	64360	21.903	ug/l	99
70) Isopropylbenzene	10.963	105	104348	22.001	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	31008	23.990	ug/l	99
72) 1,2,3-Trichloropropane	11.244	75	31090m	23.718	ug/l	
73) Bromobenzene	11.201	156	24216	22.305	ug/l	99
74) n-propylbenzene	11.305	91	121648	22.205	ug/l	99
75) 2-Chlorotoluene	11.366	91	73777	22.417	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	88638	22.373	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	8094	20.531	ug/l	97
78) 4-Chlorotoluene	11.457	91	84455	22.509	ug/l	100
79) tert-butylbenzene	11.713	119	81194	22.141	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	87452	22.347	ug/l	100
81) sec-Butylbenzene	11.890	105	106529	22.176	ug/l	100
82) p-Isopropyltoluene	12.012	119	90345	22.263	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	45843	22.688	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	45510	22.478	ug/l	99
85) n-Butylbenzene	12.335	91	78000	22.209	ug/l	100
86) Hexachloroethane	12.542	117	13086	21.359	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	44585	22.964	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	7421	22.502	ug/l	99
89) 1,2,4-Trichlorobenzene	13.591	180	28235	22.215	ug/l	100
90) Hexachlorobutadiene	13.725	225	12436	22.418	ug/l	97
91) Naphthalene	13.780	128	99181	22.574	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	28967	22.913	ug/l	99

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

