

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011822\
 Data File : VX026499.D
 Acq On : 18 Jan 2022 14:31
 Operator : JC/MD
 Sample : VX0118WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0118WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/19/2022
 Supervised By : Mahesh Dadoda 01/19/2022

Quant Time: Jan 19 07:31:37 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	18495	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	102240	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	87698	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	43202	29.049	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	96.833%
60) 4-Bromofluorobenzene	11.079	95	42245	28.864	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	96.200%
63) Toluene-d8	8.647	98	120855	29.998	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.000%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.173	85	22476	20.176	ug/l	99
3) Chloromethane	1.295	50	20551	21.116	ug/l	95
4) Vinyl Chloride	1.380	62	21345	19.839	ug/l	97
5) Bromomethane	1.618	94	11300	23.328	ug/l	89
6) Chloroethane	1.691	64	11743	19.235	ug/l	99
7) Trichlorofluoromethane	1.892	101	33976	19.926	ug/l	97
8) Diethyl Ether	2.136	74	12640	20.776	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.331	101	22104	20.769	ug/l	99
10) 1,1-Dichloroethene	2.325	96	20082	20.199	ug/l	97
11) Methyl Iodide	2.459	142	25388	23.513	ug/l	99
12) Methyl Acetate	2.709	43	42635	20.470	ug/l	98
13) Acrolein	2.240	56	24997	115.806	ug/l	97
14) Acrylonitrile	3.069	53	60987	104.977	ug/l	99
15) Acetone	2.392	58	19238	105.420	ug/l	92
16) Carbon Disulfide	2.514	76	53823	19.171	ug/l	99
17) Allyl chloride	2.666	41	37093	19.387	ug/l	99
18) Methylene Chloride	2.794	84	22843	20.861	ug/l	98
19) trans-1,2-Dichloroethene	3.099	96	21837	20.434	ug/l	97
20) Diisopropyl ether	3.764	45	76720	20.631	ug/l	99
21) 1,1-Dichloroethane	3.611	63	41490	20.265	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	24996	19.992	ug/l	98
23) tert-Butyl Alcohol	2.989	59	20525	97.403	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	73954	20.003	ug/l	100
25) Chloroform	5.093	83	44572	21.011	ug/l	95
26) Cyclohexane	5.471	56	37663	20.112	ug/l #	100
29) 1,1-Dichloropropene	5.696	75	31323	19.836	ug/l	100
30) 2-Butanone	4.562	43	90131	98.284	ug/l	99
31) 2,2-Dichloropropane	4.483	77	29868	18.261	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	37990	19.762	ug/l	99
33) Carbon Tetrachloride	5.678	117	33642	19.753	ug/l	98
34) Benzene	6.044	78	90675	20.709	ug/l	99
35) Methacrylonitrile	4.922	41	19511	20.306	ug/l	96
36) 1,2-Dichloroethane	6.086	62	35299	19.961	ug/l	99
37) Trichloroethene	7.129	130	25773	20.382	ug/l	93
38) Methylcyclohexane	7.385	83	38539	20.366	ug/l	100
39) 1,2-Dichloropropane	7.434	63	23609	21.086	ug/l	100
40) Dibromomethane	7.580	93	16230	20.635	ug/l	99
41) Bromodichloromethane	7.824	83	32873	20.251	ug/l	99
42) Vinyl Acetate	3.721	43	289321	101.830	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	34581	20.740	ug/l	99
44) Isopropyl Acetate	6.342	43	55189	20.054	ug/l	100
45) 1,4-Dioxane	7.690	88	9387	440.086	ug/l	97
46) Methyl methacrylate	7.690	41	27267	20.199	ug/l	94
47) n-amyl Acetate	10.842	43	40394	19.618	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	30819	19.014	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	35527	19.822	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	22810	21.092	ug/l	98
51) Ethyl methacrylate	9.116	69	35059	20.332	ug/l	98
52) 1,3-Dichloropropane	9.311	76	39506	21.079	ug/l	100
53) Dibromochloromethane	9.525	129	23554	20.040	ug/l	98
54) 1,2-Dibromoethane	9.610	107	23633	20.606	ug/l	100
55) 2-Chloroethyl vinyl ether	8.245	63	89985	97.558	ug/l	100
56) Bromoform	10.799	173	15330	19.647	ug/l	100
58) 4-Methyl-2-Pentanone	8.574	43	172500	105.453	ug/l	99
59) 2-Hexanone	9.433	43	130205	102.798	ug/l	99
61) Tetrachloroethene	9.275	164	26661	20.626	ug/l	98
62) Toluene	8.720	91	95950	20.494	ug/l	99
64) Chlorobenzene	10.080	112	58080	20.433	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.165	131	21789	20.131	ug/l	99
66) Ethyl Benzene	10.195	91	106763	20.380	ug/l	99
67) m/p-Xylenes	10.305	106	79797	40.999	ug/l	100
68) o-Xylene	10.640	106	38104	20.186	ug/l	97
69) Styrene	10.659	104	64321	20.500	ug/l	97
70) Isopropylbenzene	10.964	105	103250	20.387	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.214	83	28685	20.783	ug/l	100
72) 1,2,3-Trichloropropane	11.238	75	29583m	21.135	ug/l	
73) Bromobenzene	11.201	156	23623	20.377	ug/l	99
74) n-propylbenzene	11.305	91	119388	20.408	ug/l	100
75) 2-Chlorotoluene	11.366	91	72073	20.509	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	86370	20.416	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	7479	17.766	ug/l	94
78) 4-Chlorotoluene	11.457	91	81359	20.307	ug/l	99
79) tert-butylbenzene	11.713	119	79254	20.240	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	84838	20.303	ug/l	99
81) sec-Butylbenzene	11.890	105	104023	20.280	ug/l	100
82) p-Isopropyltoluene	12.012	119	87514	20.196	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	43866	20.331	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	43908	20.309	ug/l	99
85) n-Butylbenzene	12.335	91	74530	19.873	ug/l	99
86) Hexachloroethane	12.543	117	13080	19.994	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	43394	20.932	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	6961	19.767	ug/l	96
89) 1,2,4-Trichlorobenzene	13.591	180	26135	19.257	ug/l	99
90) Hexachlorobutadiene	13.725	225	11390	19.229	ug/l	97
91) Naphthalene	13.780	128	92113	19.634	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	26851	19.891	ug/l	100

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

