

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX030322\
 Data File : VX027288.D
 Acq On : 03 Mar 2022 22:57
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 03/04/2022
 Supervised By : Mahesh Dadoda 03/04/2022

Quant Time: Mar 04 02:42:57 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X030322W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 04 01:00:22 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	12415	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	67620	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	61689	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	25801	30.019	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.067%			
60) 4-Bromofluorobenzene	11.079	95	29004	29.022	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 96.733%			
63) Toluene-d8	8.653	98	81602	30.259	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.867%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.173	85	14185	17.848	ug/l	99
3) Chloromethane	1.301	50	11435	17.891	ug/l	100
4) Vinyl Chloride	1.380	62	10870	17.760	ug/l	99
5) Bromomethane	1.605	94	4582	13.931	ug/l	94
6) Chloroethane	1.691	64	6584	18.205	ug/l	95
7) Trichlorofluoromethane	1.892	101	18643	17.809	ug/l	97
8) Diethyl Ether	2.136	74	5882	17.645	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.337	101	12774	17.456	ug/l	100
10) 1,1-Dichloroethene	2.325	96	12519	17.609	ug/l	95
11) Methyl Iodide	2.453	142	8329	10.052	ug/l	95
12) Methyl Acetate	2.709	43	16319	17.642	ug/l	98
13) Acrolein	2.239	56	12281	83.467	ug/l	100
14) Acrylonitrile	3.069	53	37504	89.894	ug/l	99
15) Acetone	2.386	58	9903	82.695	ug/l	100
16) Carbon Disulfide	2.520	76	33990	18.005	ug/l	98
17) Allyl chloride	2.672	41	20187	17.083	ug/l	97
18) Methylene Chloride	2.794	84	14345	17.869	ug/l	97
19) trans-1,2-Dichloroethene	3.099	96	13917	18.098	ug/l	97
20) Diisopropyl ether	3.770	45	41983	18.481	ug/l #	86
21) 1,1-Dichloroethane	3.617	63	24257	18.256	ug/l	100
22) cis-1,2-Dichloroethene	4.489	96	16061	18.186	ug/l	99
23) tert-Butyl Alcohol	2.965	59	12697	76.844	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	42297	17.926	ug/l	100
25) Chloroform	5.099	83	25479	17.992	ug/l	97
26) Cyclohexane	5.477	56	21707	18.142	ug/l #	98
29) 1,1-Dichloropropene	5.702	75	18862	18.247	ug/l	99
30) 2-Butanone	4.562	43	51558	88.355	ug/l	99
31) 2,2-Dichloropropane	4.483	77	15404	14.823	ug/l	94
32) 1,1,1-Trichloroethane	5.391	97	22752	18.123	ug/l	99
33) Carbon Tetrachloride	5.684	117	19771	17.264	ug/l	95
34) Benzene	6.044	78	55697	18.438	ug/l	98
35) Methacrylonitrile	4.922	41	10680	17.508	ug/l	96
36) 1,2-Dichloroethane	6.092	62	20172	18.333	ug/l	98
37) Trichloroethene	7.129	130	16449	18.023	ug/l	99
38) Methylcyclohexane	7.385	83	22373	17.471	ug/l	98
39) 1,2-Dichloropropane	7.434	63	13536	18.251	ug/l	97
40) Dibromomethane	7.586	93	10299	18.571	ug/l	98
41) Bromodichloromethane	7.824	83	18813	17.601	ug/l	98
42) Vinyl Acetate	3.727	43	175256	89.595	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	19998	18.084	ug/l	# 86
44) Isopropyl Acetate	6.348	43	29913	17.522	ug/l	100
45) 1,4-Dioxane	7.659	88	6058	314.500	ug/l	97
46) Methyl methacrylate	7.696	41	15247	18.003	ug/l	94
47) n-amyl Acetate	10.842	43	24292	17.265	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	17569	15.919	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	20237	16.689	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	14155	17.959	ug/l	94
51) Ethyl methacrylate	9.116	69	21323	17.440	ug/l	96
52) 1,3-Dichloropropane	9.311	76	23758	18.049	ug/l	97
53) Dibromochloromethane	9.525	129	15455	17.946	ug/l	98
54) 1,2-Dibromoethane	9.610	107	15065	17.627	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	47523	80.238	ug/l	99
56) Bromoform	10.799	173	10215	16.220	ug/l	97
58) 4-Methyl-2-Pentanone	8.574	43	103017	92.316	ug/l	97
59) 2-Hexanone	9.433	43	75356	88.240	ug/l	98
61) Tetrachloroethene	9.275	164	16938	18.824	ug/l	91
62) Toluene	8.720	91	60626	18.041	ug/l	99
64) Chlorobenzene	10.079	112	38779	18.010	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	13922	17.036	ug/l	98
66) Ethyl Benzene	10.195	91	68346	18.043	ug/l	100
67) m/p-Xylenes	10.305	106	53439	36.029	ug/l	99
68) o-Xylene	10.646	106	26386	18.200	ug/l	99
69) Styrene	10.659	104	43547	18.068	ug/l	99
70) Isopropylbenzene	10.963	105	69230	18.154	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	20908	18.755	ug/l	99
72) 1,2,3-Trichloropropane	11.244	75	18877m	17.436	ug/l	
73) Bromobenzene	11.201	156	17216	18.144	ug/l	99
74) n-propylbenzene	11.305	91	76338	17.563	ug/l	100
75) 2-Chlorotoluene	11.366	91	48083	18.275	ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	57896	18.074	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	3901	12.163	ug/l	92
78) 4-Chlorotoluene	11.457	91	52263	17.447	ug/l	98
79) tert-butylbenzene	11.713	119	60208	19.324	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	59839	18.750	ug/l	100
81) sec-Butylbenzene	11.890	105	69577	17.556	ug/l	100
82) p-Isopropyltoluene	12.012	119	58655	17.303	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	31209	17.575	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	30871	17.410	ug/l	99
85) n-Butylbenzene	12.335	91	46728	16.900	ug/l	99
86) Hexachloroethane	12.542	117	7329	13.912	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	30986	18.046	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	4057	15.363	ug/l	97
89) 1,2,4-Trichlorobenzene	13.591	180	19440	17.236	ug/l	98
90) Hexachlorobutadiene	13.725	225	7898	16.678	ug/l	99
91) Naphthalene	13.780	128	67430	17.941	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	19660	17.385	ug/l	100

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

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