

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091622\
 Data File : VX031425.D
 Acq On : 16 Sep 2022 21:06
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 09/17/2022
 Supervised By : Mahesh Dadoda 09/19/2022

Quant Time: Sep 17 01:49:24 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X091622W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 16 12:41:56 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.903	128	10885	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	61223	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	56455	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	29875	30.465	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.533%			
60) 4-Bromofluorobenzene	11.079	95	29873	26.248	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 87.500%			
63) Toluene-d8	8.653	98	91242	29.524	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.400%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	10938	18.546	ug/l	96
3) Chloromethane	1.288	50	16411	20.189	ug/l	98
4) Vinyl Chloride	1.374	62	18876	20.038	ug/l	98
5) Bromomethane	1.611	94	21354	17.115	ug/l	97
6) Chloroethane	1.691	64	19112	17.205	ug/l	95
7) Trichlorofluoromethane	1.886	101	40687	17.734	ug/l	94
8) Diethyl Ether	2.136	74	14041	18.358	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.331	101	14619	18.707	ug/l	91
10) 1,1-Dichloroethene	2.319	96	14097	19.272	ug/l	95
11) Methyl Iodide	2.453	142	7615	8.634	ug/l	93
12) Methyl Acetate	2.709	43	22094	19.627	ug/l	92
13) Acrolein	2.239	56	14161	94.827	ug/l	98
14) Acrylonitrile	3.068	53	43832	95.483	ug/l	99
15) Acetone	2.386	58	12264	95.362	ug/l	98
16) Carbon Disulfide	2.514	76	33740	17.869	ug/l	99
17) Allyl chloride	2.666	41	20933	17.655	ug/l	88
18) Methylene Chloride	2.788	84	16085	19.009	ug/l	95
19) trans-1,2-Dichloroethene	3.093	96	16105	18.715	ug/l	90
20) Diisopropyl ether	3.763	45	48486	17.412	ug/l	95
21) 1,1-Dichloroethane	3.611	63	27131	18.486	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	17636	17.993	ug/l	98
23) tert-Butyl Alcohol	2.983	59	23149	97.921	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	49611	17.898	ug/l	96
25) Chloroform	5.099	83	30023	17.935	ug/l	98
26) Cyclohexane	5.476	56	23271	17.558	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	21422	17.383	ug/l	86
30) 2-Butanone	4.562	43	63445	91.256	ug/l	99
31) 2,2-Dichloropropane	4.483	77	19444	14.107	ug/l	97
32) 1,1,1-Trichloroethane	5.385	97	26396	17.317	ug/l	98
33) Carbon Tetrachloride	5.684	117	23053	17.114	ug/l	98
34) Benzene	6.043	78	63273	17.447	ug/l	97
35) Methacrylonitrile	4.928	41	12537	18.005	ug/l	97
36) 1,2-Dichloroethane	6.086	62	23619	17.250	ug/l	98
37) Trichloroethene	7.129	130	17571	17.895	ug/l	99
38) Methylcyclohexane	7.385	83	24037	16.687	ug/l	98
39) 1,2-Dichloropropane	7.433	63	15898	18.272	ug/l	96
40) Dibromomethane	7.586	93	12634	18.778	ug/l	88
41) Bromodichloromethane	7.824	83	22865	17.322	ug/l	98
42) Vinyl Acetate	3.727	43	212912	85.363	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	25661	18.829	ug/l	100
44) Isopropyl Acetate	6.348	43	38669	17.074	ug/l	97
45) 1,4-Dioxane	7.690	88	9241	378.030	ug/l	92
46) Methyl methacrylate	7.696	41	17653	17.412	ug/l	86
47) n-amyl Acetate	10.847	43	33814	16.735	ug/l	94
48) t-1,3-Dichloropropene	8.982	75	22619	15.029	ug/l	94
49) cis-1,3-Dichloropropene	8.372	75	24551	16.038	ug/l	92
50) 1,1,2-Trichloroethane	9.153	97	17454	17.153	ug/l	97
51) Ethyl methacrylate	9.116	69	24869	16.354	ug/l	87
52) 1,3-Dichloropropane	9.311	76	28422	17.203	ug/l	99
53) Dibromochloromethane	9.525	129	16901	14.887	ug/l	96
54) 1,2-Dibromoethane	9.610	107	18249	16.247	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	64923	83.112	ug/l	98
56) Bromoform	10.805	173	12339	14.516	ug/l	96
58) 4-Methyl-2-Pentanone	8.573	43	133502	98.708	ug/l	96
59) 2-Hexanone	9.433	43	101139	97.643	ug/l	97
61) Tetrachloroethene	9.275	164	16694	18.230	ug/l	90
62) Toluene	8.720	91	72214	17.683	ug/l	97
64) Chlorobenzene	10.079	112	45093	17.758	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	16463	17.626	ug/l	97
66) Ethyl Benzene	10.195	91	78971	17.383	ug/l	98
67) m/p-Xylenes	10.305	106	62301	32.349	ug/l	97
68) o-Xylene	10.640	106	30314	16.516	ug/l	100
69) Styrene	10.659	104	49039	15.674	ug/l	99
70) Isopropylbenzene	10.963	105	78120	15.979	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	27985	18.459	ug/l	99
72) 1,2,3-Trichloropropane	11.244	75	23550m	16.905	ug/l	
73) Bromobenzene	11.201	156	19252	16.344	ug/l	96
74) n-propylbenzene	11.305	91	92497	16.256	ug/l	97
75) 2-Chlorotoluene	11.366	91	54415	16.330	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	67641	15.621	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	6334	13.445	ug/l	97
78) 4-Chlorotoluene	11.457	91	61865	15.546	ug/l	97
79) tert-butylbenzene	11.713	119	65605	16.020	ug/l	97
80) 1,2,4-Trimethylbenzene	11.756	105	65625	15.631	ug/l	98
81) sec-Butylbenzene	11.890	105	82895	15.940	ug/l	98
82) p-Isopropyltoluene	12.012	119	67251	15.151	ug/l	100
83) 1,3-Dichlorobenzene	11.969	146	36412	15.612	ug/l	100
84) 1,4-Dichlorobenzene	12.042	146	36289	15.151	ug/l	99
85) n-Butylbenzene	12.335	91	57270	15.351	ug/l	96
86) Hexachloroethane	12.542	117	11264	15.110	ug/l	88
87) 1,2-Dichlorobenzene	12.335	146	36763	15.874	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	5298	16.404	ug/l	98
89) 1,2,4-Trichlorobenzene	13.591	180	21304	16.750	ug/l	99
90) Hexachlorobutadiene	13.725	225	7921	16.983	ug/l	97
91) Naphthalene	13.774	128	79628	17.362	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	22268	17.452	ug/l	99

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

