

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX110421\
 Data File : VX025057.D
 Acq On : 03 Nov 2021 18:37
 Operator : JC/MD
 Sample : VSTDICCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 11/04/2021
 Supervised By : Mahesh Dadoda 11/10/2021

Quant Time: Nov 03 23:34:33 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X110421W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Nov 03 23:32:35 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.910	128	19259m	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	103267	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	93807	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	54562	34.956	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 116.533%#			
60) 4-Bromofluorobenzene	11.085	95	52130	32.906	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 109.700%			
63) Toluene-d8	8.653	98	131906	31.105	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 103.667%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	31142	25.329	ug/l	99
3) Chloromethane	1.288	50	17346	14.367	ug/l	98
4) Vinyl Chloride	1.374	62	18537	15.106	ug/l	91
5) Bromomethane	1.611	94	16522	21.913	ug/l	93
6) Chloroethane	1.691	64	11437	14.892	ug/l	92
7) Trichlorofluoromethane	1.892	101	45032	21.130	ug/l	92
8) Diethyl Ether	2.136	74	10652	15.056	ug/l	85
9) 1,1,2-Trichlorotrifluo...	2.331	101	22387	19.266	ug/l	97
10) 1,1-Dichloroethene	2.325	96	19849	17.944	ug/l	94
11) Methyl Iodide	2.453	142	17640	12.031	ug/l	79
12) Methyl Acetate	2.709	43	42015	23.780	ug/l	95
13) Acrolein	2.239	56	8375	49.905	ug/l	99
14) Acrylonitrile	3.068	53	60354	84.336	ug/l	96
15) Acetone	2.386	58	18894	89.246	ug/l	81
16) Carbon Disulfide	2.514	76	49249	17.910	ug/l	97
17) Allyl chloride	2.666	41	31039	15.596	ug/l	94
18) Methylene Chloride	2.794	84	24042	18.404	ug/l	91
19) trans-1,2-Dichloroethene	3.099	96	21719	18.246	ug/l	97
20) Diisopropyl ether	3.763	45	70197	17.374	ug/l	93
21) 1,1-Dichloroethane	3.611	63	46336	20.258	ug/l	98
22) cis-1,2-Dichloroethene	4.495	96	25855	18.633	ug/l	91
23) tert-Butyl Alcohol	2.989	59	37559m	109.032	ug/l	
24) Methyl tert-Butyl Ether	3.117	73	85550	21.206	ug/l	93
25) Chloroform	5.105	83	54111	22.429	ug/l	96
26) Cyclohexane	5.477	56	36568	18.118	ug/l #	96
29) 1,1-Dichloropropene	5.696	75	36106	21.632	ug/l	84
30) 2-Butanone	4.562	43	92108	88.521	ug/l	98
31) 2,2-Dichloropropane	4.477	77	45834	23.796	ug/l #	68
32) 1,1,1-Trichloroethane	5.385	97	49584	23.972	ug/l #	80
33) Carbon Tetrachloride	5.684	117	43338	24.016	ug/l	95
34) Benzene	6.044	78	89534	18.658	ug/l	97
35) Methacrylonitrile	4.928	41	17557m	13.285	ug/l	
36) 1,2-Dichloroethane	6.092	62	43542	22.558	ug/l #	94
37) Trichloroethene	7.135	130	23770	18.209	ug/l	88
38) Methylcyclohexane	7.385	83	37397	18.371	ug/l	96
39) 1,2-Dichloropropane	7.434	63	23199	18.474	ug/l	93
40) Dibromomethane	7.586	93	18561	20.359	ug/l	90
41) Bromodichloromethane	7.824	83	39306	22.809	ug/l	94
42) Vinyl Acetate	3.727	43	269228	79.971	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	34657	17.754	ug/l #	74
44) Isopropyl Acetate	6.348	43	51930	16.763	ug/l	95
45) 1,4-Dioxane	7.696	88	11414	356.669	ug/l	93
46) Methyl methacrylate	7.696	41	26109	17.362	ug/l	95
47) n-amyl Acetate	10.848	43	41728	15.947	ug/l #	90
48) t-1,3-Dichloropropene	8.982	75	42122	21.294	ug/l	97
49) cis-1,3-Dichloropropene	8.372	75	42563	20.583	ug/l #	86
50) 1,1,2-Trichloroethane	9.153	97	25129	19.273	ug/l	97
51) Ethyl methacrylate	9.116	69	40355	19.419	ug/l	87
52) 1,3-Dichloropropane	9.311	76	44179	20.410	ug/l	100
53) Dibromochloromethane	9.525	129	28188	20.842	ug/l	99
54) 1,2-Dibromoethane	9.610	107	28236	20.225	ug/l	98
55) 2-Chloroethyl vinyl ether	8.244	63	87248	86.952	ug/l	98
56) Bromoform	10.805	173	18243	19.195	ug/l	97
58) 4-Methyl-2-Pentanone	8.574	43	173237	88.391	ug/l	93
59) 2-Hexanone	9.433	43	133099	88.044	ug/l #	93
61) Tetrachloroethene	9.281	164	22757	18.406	ug/l	95
62) Toluene	8.720	91	101517	19.263	ug/l	97
64) Chlorobenzene	10.079	112	61276	18.513	ug/l	96
65) 1,1,1,2-Tetrachloroethane	10.165	131	27985	21.781	ug/l	94
66) Ethyl Benzene	10.195	91	121453	20.412	ug/l	97
67) m/p-Xylenes	10.305	106	81395	36.420	ug/l	77
68) o-Xylene	10.646	106	40677	18.391	ug/l	81
69) Styrene	10.659	104	66892	18.309	ug/l #	91
70) Isopropylbenzene	10.963	105	117398	19.792	ug/l	95
71) 1,1,2,2-Tetrachloroethane	11.213	83	39223	20.659	ug/l	98
72) 1,2,3-Trichloropropane	11.244	75	38041m	21.278	ug/l	
73) Bromobenzene	11.201	156	25570	18.117	ug/l	80
74) n-propylbenzene	11.305	91	140805	20.336	ug/l	93
75) 2-Chlorotoluene	11.366	91	86693	20.857	ug/l	92
76) 1,3,5-Trimethylbenzene	11.451	105	102989	20.725	ug/l	90
77) t-1,4-Dichloro-2-butene	11.018	75	11919	18.866	ug/l	97
78) 4-Chlorotoluene	11.457	91	100547	21.254	ug/l	94
79) tert-butylbenzene	11.719	119	97549	20.271	ug/l	94
80) 1,2,4-Trimethylbenzene	11.756	105	102842	20.911	ug/l	92
81) sec-Butylbenzene	11.896	105	121215	19.779	ug/l	97
82) p-Isopropyltoluene	12.012	119	100406	19.902	ug/l	96
83) 1,3-Dichlorobenzene	11.969	146	47784	18.533	ug/l	96
84) 1,4-Dichlorobenzene	12.042	146	47284	18.520	ug/l	95
85) n-Butylbenzene	12.335	91	89556	19.948	ug/l	96
86) Hexachloroethane	12.542	117	17116	20.446	ug/l	90
87) 1,2-Dichlorobenzene	12.335	146	48452	19.351	ug/l	95
88) 1,2-Dibromo-3-Chloropr...	12.945	75	10192	23.033	ug/l	86
89) 1,2,4-Trichlorobenzene	13.591	180	29341	18.811	ug/l	97
90) Hexachlorobutadiene	13.725	225	14374	20.352	ug/l	98
91) Naphthalene	13.780	128	98684	18.567	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	29365	18.806	ug/l	97

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

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