

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020222\
 Data File : VX026751.D
 Acq On : 02 Feb 2022 20:48
 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 02/03/2022
 Supervised By : Mahesh Dadoda 02/04/2022

Quant Time: Feb 03 03:03:36 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	4.910	128	15659	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	87360	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	75090	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	34267	27.214	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	90.700%#		
60) 4-Bromofluorobenzene	11.079	95	35484	28.315	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	94.400%		
63) Toluene-d8	8.653	98	100996	29.278	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	97.600%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.173	85	19252	20.412	ug/l	99
3) Chloromethane	1.295	50	16867	20.470	ug/l	97
4) Vinyl Chloride	1.374	62	18226	20.008	ug/l	99
5) Bromomethane	1.611	94	9193	22.415	ug/l	93
6) Chloroethane	1.691	64	11107	21.488	ug/l	98
7) Trichlorofluoromethane	1.892	101	27896	19.323	ug/l	98
8) Diethyl Ether	2.136	74	9914	19.246	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.337	101	18580	20.620	ug/l	97
10) 1,1-Dichloroethene	2.325	96	17777	21.119	ug/l	94
11) Methyl Iodide	2.459	142	23367	25.561	ug/l	98
12) Methyl Acetate	2.709	43	40048	22.711	ug/l	96
13) Acrolein	2.239	56	20610	112.775	ug/l	97
14) Acrylonitrile	3.069	53	56739	115.353	ug/l	99
15) Acetone	2.386	58	15006	97.122	ug/l	82
16) Carbon Disulfide	2.520	76	45257	19.039	ug/l	100
17) Allyl chloride	2.666	41	33521	20.693	ug/l	94
18) Methylene Chloride	2.794	84	20164	21.749	ug/l	99
19) trans-1,2-Dichloroethene	3.099	96	19279	21.307	ug/l	94
20) Diisopropyl ether	3.764	45	67028	21.289	ug/l	93
21) 1,1-Dichloroethane	3.617	63	35819	20.664	ug/l	99
22) cis-1,2-Dichloroethene	4.495	96	22572	21.323	ug/l	96
23) tert-Butyl Alcohol	2.971	59	19820	111.092	ug/l #	100
24) Methyl tert-Butyl Ether	3.117	73	64724	20.677	ug/l	98
25) Chloroform	5.105	83	38095	21.210	ug/l	96
26) Cyclohexane	5.477	56	32997	20.811	ug/l #	99
29) 1,1-Dichloropropene	5.696	75	27223	20.176	ug/l	98
30) 2-Butanone	4.562	43	80353	102.546	ug/l	98
31) 2,2-Dichloropropane	4.483	77	25414	18.185	ug/l	98
32) 1,1,1-Trichloroethane	5.391	97	32870	20.011	ug/l	99
33) Carbon Tetrachloride	5.684	117	28682	19.710	ug/l	98
34) Benzene	6.044	78	80633	21.553	ug/l	98
35) Methacrylonitrile	4.928	41	17322	21.098	ug/l	95
36) 1,2-Dichloroethane	6.092	62	29708	19.661	ug/l	96
37) Trichloroethene	7.129	130	23858	22.081	ug/l	99
38) Methylcyclohexane	7.385	83	32961	20.385	ug/l	98
39) 1,2-Dichloropropane	7.434	63	20899	21.845	ug/l	99
40) Dibromomethane	7.586	93	14576	21.689	ug/l	97
41) Bromodichloromethane	7.824	83	28295	20.400	ug/l	96
42) Vinyl Acetate	3.727	43	258322	106.406	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	31241	21.929	ug/l	99
44) Isopropyl Acetate	6.348	43	49564	21.078	ug/l	98
45) 1,4-Dioxane	7.677	88	8638	473.949	ug/l	97
46) Methyl methacrylate	7.696	41	24636	21.359	ug/l	94
47) n-amyl Acetate	10.848	43	38892	22.106	ug/l	98
48) t-1,3-Dichloropropene	8.982	75	27658	19.970	ug/l	99
49) cis-1,3-Dichloropropene	8.372	75	31988	20.888	ug/l	94
50) 1,1,2-Trichloroethane	9.153	97	20808	22.518	ug/l	96
51) Ethyl methacrylate	9.116	69	32278	21.908	ug/l	97
52) 1,3-Dichloropropane	9.311	76	35436	22.128	ug/l	99
53) Dibromochloromethane	9.525	129	20718	20.629	ug/l	100
54) 1,2-Dibromoethane	9.610	107	21131	21.562	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	80399	102.012	ug/l	99
56) Bromoform	10.799	173	13375	20.061	ug/l	97
58) 4-Methyl-2-Pentanone	8.574	43	158555	113.203	ug/l	99
59) 2-Hexanone	9.433	43	116597	107.510	ug/l	98
61) Tetrachloroethene	9.275	164	25325	22.882	ug/l	95
62) Toluene	8.720	91	86713	21.631	ug/l	100
64) Chlorobenzene	10.079	112	53670	22.052	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.165	131	20042	21.626	ug/l	99
66) Ethyl Benzene	10.195	91	94312	21.026	ug/l	98
67) m/p-Xylenes	10.305	106	72091	43.259	ug/l	97
68) o-Xylene	10.646	106	36039	22.297	ug/l	97
69) Styrene	10.659	104	57503	21.404	ug/l	97
70) Isopropylbenzene	10.963	105	92803	21.401	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	25691	21.739	ug/l	99
72) 1,2,3-Trichloropropane	11.244	75	26016m	21.707	ug/l	
73) Bromobenzene	11.201	156	21904	22.067	ug/l	95
74) n-propylbenzene	11.305	91	104630	20.889	ug/l	100
75) 2-Chlorotoluene	11.366	91	63446	21.085	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	77026	21.264	ug/l	99
77) t-1,4-Dichloro-2-butene	11.024	75	7331	20.338	ug/l	91
78) 4-Chlorotoluene	11.457	91	70590	20.577	ug/l	96
79) tert-butylbenzene	11.719	119	70859	21.134	ug/l	98
80) 1,2,4-Trimethylbenzene	11.756	105	75703	21.158	ug/l	100
81) sec-Butylbenzene	11.890	105	92017	20.951	ug/l	99
82) p-Isopropyltoluene	12.012	119	77446	20.874	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	39212	21.226	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	40035	21.627	ug/l	99
85) n-Butylbenzene	12.335	91	63078	19.644	ug/l	99
86) Hexachloroethane	12.542	117	10972	19.588	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	38850	21.886	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	6165	20.446	ug/l	96
89) 1,2,4-Trichlorobenzene	13.591	180	23943	20.604	ug/l	100
90) Hexachlorobutadiene	13.725	225	10274	20.257	ug/l	97
91) Naphthalene	13.780	128	85936	21.393	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	24421	21.128	ug/l	97

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

