

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX020222\
 Data File : VX026726.D
 Acq On : 02 Feb 2022 10:31
 Operator : JC/MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/03/2022
 Supervised By : Mahesh Dadoda 02/04/2022

Quant Time: Feb 03 03:01:45 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	16917	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	95030	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	84721	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	37913	27.871	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	92.900%	
60) 4-Bromofluorobenzene	11.079	95	40980	28.983	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	96.600%	
63) Toluene-d8	8.647	98	113214	29.089	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	96.967%	
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.173	85	20756	20.370	ug/l	98
3) Chloromethane	1.294	50	18974	21.314	ug/l	98
4) Vinyl Chloride	1.380	62	19411	19.725	ug/l	96
5) Bromomethane	1.618	94	9703	21.899	ug/l	96
6) Chloroethane	1.691	64	11246	20.139	ug/l	94
7) Trichlorofluoromethane	1.892	101	29763	19.083	ug/l	93
8) Diethyl Ether	2.136	74	10607	19.060	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	20162	20.712	ug/l	98
10) 1,1-Dichloroethene	2.325	96	18552	20.401	ug/l	92
11) Methyl Iodide	2.459	142	24548	24.856	ug/l	95
12) Methyl Acetate	2.703	43	38984	20.463	ug/l	96
13) Acrolein	2.239	56	18917	95.814	ug/l	98
14) Acrylonitrile	3.062	53	56621	106.553	ug/l	98
15) Acetone	2.386	58	22496	134.772	ug/l	90
16) Carbon Disulfide	2.514	76	48265	18.795	ug/l	99
17) Allyl chloride	2.666	41	34095	19.482	ug/l	95
18) Methylene Chloride	2.794	84	21059	21.025	ug/l	99
19) trans-1,2-Dichloroethene	3.099	96	19981	20.441	ug/l	97
20) Diisopropyl ether	3.757	45	67449	19.830	ug/l	91
21) 1,1-Dichloroethane	3.611	63	36853	19.680	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	23450	20.505	ug/l	95
23) tert-Butyl Alcohol	2.983	59	17137	88.911	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	63428	18.756	ug/l	97
25) Chloroform	5.093	83	38190	19.681	ug/l	97
26) Cyclohexane	5.477	56	34023	19.863	ug/l #	99
29) 1,1-Dichloropropene	5.696	75	28279	19.267	ug/l	99
30) 2-Butanone	4.556	43	93550	109.752	ug/l	98
31) 2,2-Dichloropropane	4.477	77	27817	18.298	ug/l	98
32) 1,1,1-Trichloroethane	5.385	97	33224	18.594	ug/l	100
33) Carbon Tetrachloride	5.678	117	29680	18.749	ug/l	97
34) Benzene	6.038	78	82814	20.349	ug/l	98
35) Methacrylonitrile	4.928	41	17249	19.314	ug/l	94
36) 1,2-Dichloroethane	6.092	62	30675	18.662	ug/l	98
37) Trichloroethene	7.123	130	25079	21.337	ug/l	97
38) Methylcyclohexane	7.379	83	35455	20.157	ug/l	98
39) 1,2-Dichloropropane	7.428	63	21152	20.325	ug/l	95
40) Dibromomethane	7.580	93	14974	20.482	ug/l	98
41) Bromodichloromethane	7.824	83	29487	19.543	ug/l	100
42) Vinyl Acetate	3.721	43	253023	95.811	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	28088	18.124	ug/l	97
44) Isopropyl Acetate	6.336	43	47373	18.520	ug/l	98
45) 1,4-Dioxane	7.690	88	7859	396.404	ug/l	99
46) Methyl methacrylate	7.690	41	23735	18.917	ug/l	92
47) n-amyl Acetate	10.842	43	37477	19.582	ug/l	96
48) t-1,3-Dichloropropene	8.976	75	28984	19.239	ug/l	96
49) cis-1,3-Dichloropropene	8.366	75	32669	19.611	ug/l	94
50) 1,1,2-Trichloroethane	9.153	97	21683	21.571	ug/l	95
51) Ethyl methacrylate	9.116	69	32206	20.095	ug/l	95
52) 1,3-Dichloropropane	9.311	76	37041	21.264	ug/l	98
53) Dibromochloromethane	9.519	129	22321	20.431	ug/l	98
54) 1,2-Dibromoethane	9.610	107	22251	20.873	ug/l	99
55) 2-Chloroethyl vinyl ether	8.238	63	90442	105.493	ug/l	98
56) Bromoform	10.799	173	14642	20.189	ug/l	100
58) 4-Methyl-2-Pentanone	8.574	43	154290	97.635	ug/l	98
59) 2-Hexanone	9.427	43	124725	101.931	ug/l	98
61) Tetrachloroethene	9.275	164	28019	22.439	ug/l	97
62) Toluene	8.720	91	91752	20.286	ug/l	99
64) Chlorobenzene	10.079	112	56611	20.616	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	20914	20.001	ug/l	98
66) Ethyl Benzene	10.195	91	100950	19.947	ug/l	95
67) m/p-Xylenes	10.299	106	77515	41.226	ug/l	97
68) o-Xylene	10.640	106	38129	20.909	ug/l	97
69) Styrene	10.659	104	62486	20.615	ug/l	96
70) Isopropylbenzene	10.963	105	100415	20.524	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	24977	18.733	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	26940m	19.923	ug/l	
73) Bromobenzene	11.201	156	23145	20.666	ug/l	96
74) n-propylbenzene	11.305	91	115666	20.467	ug/l	100
75) 2-Chlorotoluene	11.366	91	69138	20.365	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	83825	20.511	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	7554	18.575	ug/l	93
78) 4-Chlorotoluene	11.457	91	78427	20.263	ug/l	97
79) tert-butylbenzene	11.713	119	75488	19.955	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	82635	20.470	ug/l	99
81) sec-Butylbenzene	11.890	105	103370	20.860	ug/l	100
82) p-Isopropyltoluene	12.012	119	85919	20.525	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	42751	20.511	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	42826	20.505	ug/l	100
85) n-Butylbenzene	12.335	91	72784	20.090	ug/l	100
86) Hexachloroethane	12.542	117	12014	19.010	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	41051	20.497	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	5691	16.728	ug/l	95
89) 1,2,4-Trichlorobenzene	13.591	180	25890	19.747	ug/l	99
90) Hexachlorobutadiene	13.725	225	11784	20.593	ug/l	96
91) Naphthalene	13.774	128	85601	18.887	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	25846	19.819	ug/l	98

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

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