

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX110421\
 Data File : VX025059.D
 Acq On : 03 Nov 2021 19:23
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

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

Quant Time: Nov 03 23:35:53 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	12637	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	70909	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	65527	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	37649	36.760	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 122.533%#			
60) 4-Bromofluorobenzene	11.085	95	35104	31.722	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 105.733%			
63) Toluene-d8	8.653	98	89435	30.192	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.633%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	106143	131.569	ug/l	99
3) Chloromethane	1.288	50	53584	67.636	ug/l	100
4) Vinyl Chloride	1.374	62	63832	79.275	ug/l	97
5) Bromomethane	1.611	94	45562	92.092	ug/l	90
6) Chloroethane	1.685	64	34989	69.433	ug/l	96
7) Trichlorofluoromethane	1.886	101	151280	108.182	ug/l	90
8) Diethyl Ether	2.136	74	35000	75.393	ug/l	79
9) 1,1,2-Trichlorotrifluo...	2.331	101	76354	100.142	ug/l	98
10) 1,1-Dichloroethene	2.319	96	64837	89.328	ug/l	95
11) Methyl Iodide	2.459	142	86859	90.284	ug/l	91
12) Methyl Acetate	2.703	43	136191	117.473	ug/l	94
13) Acrolein	2.239	56	28242	256.473	ug/l	99
14) Acrylonitrile	3.068	53	192784	410.551	ug/l	93
15) Acetone	2.386	58	58099	418.236	ug/l	91
16) Carbon Disulfide	2.514	76	174347	96.628	ug/l	100
17) Allyl chloride	2.666	41	109575	83.909	ug/l	93
18) Methylene Chloride	2.794	84	76207	88.907	ug/l	89
19) trans-1,2-Dichloroethene	3.093	96	72086	92.292	ug/l	94
20) Diisopropyl ether	3.763	45	226563	85.460	ug/l	90
21) 1,1-Dichloroethane	3.611	63	150014	99.952	ug/l	98
22) cis-1,2-Dichloroethene	4.495	96	85637	94.055	ug/l	91
23) tert-Butyl Alcohol	3.014	59	110215m	487.605	ug/l	
24) Methyl tert-Butyl Ether	3.117	73	280271	105.881	ug/l	92
25) Chloroform	5.099	83	172780	109.147	ug/l	100
26) Cyclohexane	5.477	56	119025	89.877	ug/l #	100
29) 1,1-Dichloropropene	5.696	75	116763	101.878	ug/l	96
30) 2-Butanone	4.562	43	290068	405.983	ug/l	97
31) 2,2-Dichloropropane	4.483	77	144626	109.353	ug/l	91
32) 1,1,1-Trichloroethane	5.391	97	169203	119.132	ug/l	94
33) Carbon Tetrachloride	5.684	117	150397	121.374	ug/l	99
34) Benzene	6.043	78	295966	89.821	ug/l	97
35) Methacrylonitrile	4.928	41	58583	64.555	ug/l	95
36) 1,2-Dichloroethane	6.092	62	141475	106.743	ug/l #	86
37) Trichloroethene	7.129	130	83134	92.744	ug/l	86
38) Methylcyclohexane	7.385	83	126095	90.210	ug/l	99
39) 1,2-Dichloropropane	7.433	63	78869	91.467	ug/l	92
40) Dibromomethane	7.586	93	63388	101.258	ug/l	91
41) Bromodichloromethane	7.824	83	136084	115.004	ug/l	97
42) Vinyl Acetate	3.727	43	893423	386.482	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	110526	82.459	ug/l	100
44) Isopropyl Acetate	6.342	43	177043	83.226	ug/l	96
45) 1,4-Dioxane	7.690	88	35574	1618.901	ug/l	93
46) Methyl methacrylate	7.696	41	85204	82.516	ug/l	90
47) n-amyl Acetate	10.848	43	141401	78.699	ug/l	93
48) t-1,3-Dichloropropene	8.982	75	144879	106.662	ug/l	98
49) cis-1,3-Dichloropropene	8.372	75	145366	102.375	ug/l #	85
50) 1,1,2-Trichloroethane	9.159	97	83283	93.023	ug/l	96
51) Ethyl methacrylate	9.122	69	136770	95.845	ug/l	81
52) 1,3-Dichloropropane	9.311	76	146763	98.745	ug/l	100
53) Dibromochloromethane	9.525	129	99830	107.495	ug/l	100
54) 1,2-Dibromoethane	9.616	107	94178	98.241	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	297640	431.990	ug/l	99
56) Bromoform	10.805	173	68510	104.980	ug/l	99
58) 4-Methyl-2-Pentanone	8.580	43	545744m	398.631	ug/l	
59) 2-Hexanone	9.433	43	419328	397.095	ug/l #	91
61) Tetrachloroethene	9.281	164	75597	87.533	ug/l	97
62) Toluene	8.726	91	337917	91.795	ug/l	95
64) Chlorobenzene	10.085	112	204175	88.308	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	91871	102.365	ug/l	95
66) Ethyl Benzene	10.195	91	403613	97.107	ug/l	94
67) m/p-Xylenes	10.305	106	279632	179.122	ug/l	84
68) o-Xylene	10.646	106	137347	88.900	ug/l	84
69) Styrene	10.659	104	231584	90.744	ug/l	93
70) Isopropylbenzene	10.963	105	388135	93.677	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.213	83	127545	96.173	ug/l	100
72) 1,2,3-Trichloropropane	11.244	75	124702m	99.856	ug/l	
73) Bromobenzene	11.201	156	88440	89.707	ug/l	86
74) n-propylbenzene	11.305	91	454975	94.068	ug/l	97
75) 2-Chlorotoluene	11.366	91	285915	98.472	ug/l	93
76) 1,3,5-Trimethylbenzene	11.457	105	337113	97.116	ug/l	91
77) t-1,4-Dichloro-2-butene	11.024	75	42014	95.202	ug/l	92
78) 4-Chlorotoluene	11.457	91	332543	100.630	ug/l	93
79) tert-butylbenzene	11.719	119	322843	96.040	ug/l	96
80) 1,2,4-Trimethylbenzene	11.756	105	333257	97.006	ug/l	92
81) sec-Butylbenzene	11.896	105	404618	94.518	ug/l	97
82) p-Isopropyltoluene	12.012	119	337960	95.900	ug/l	95
83) 1,3-Dichlorobenzene	11.969	146	164968	91.596	ug/l	96
84) 1,4-Dichlorobenzene	12.042	146	164950	92.491	ug/l	95
85) n-Butylbenzene	12.335	91	307123	97.936	ug/l	98
86) Hexachloroethane	12.542	117	61620	105.375	ug/l	89
87) 1,2-Dichlorobenzene	12.335	146	161550	92.368	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	12.945	75	36362	117.637	ug/l	86
89) 1,2,4-Trichlorobenzene	13.591	180	101070	92.763	ug/l	97
90) Hexachlorobutadiene	13.725	225	49971	101.291	ug/l	98
91) Naphthalene	13.780	128	360742	97.164	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	103097	94.521	ug/l	97

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

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