

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011823\
 Data File : VX033771.D
 Acq On : 18 Jan 2023 13:47
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/19/2023
 Supervised By : Mahesh Dadoda 01/19/2023

Quant Time: Jan 18 14:14:55 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jan 18 12:35:47 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.904	128	16139	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	110466	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	124457	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	36633	28.033	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	93.433%		
60) 4-Bromofluorobenzene	11.079	95	66003	29.425	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.067%		
63) Toluene-d8	8.647	98	118249	29.688	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	98.967%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	127751	75.688	ug/l	99
3) Chloromethane	1.294	50	139036	76.848	ug/l	98
4) Vinyl Chloride	1.374	62	134779	82.472	ug/l	98
5) Bromomethane	1.618	94	89516	98.891	ug/l	98
6) Chloroethane	1.691	64	70647	73.814	ug/l	96
7) Trichlorofluoromethane	1.886	101	200024	79.313	ug/l	98
8) Diethyl Ether	2.130	74	76919	93.674	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.331	101	123708	94.599	ug/l	97
10) 1,1-Dichloroethene	2.319	96	121047	98.180	ug/l	96
11) Methyl Iodide	2.453	142	185246	87.403	ug/l	93
12) Methyl Acetate	2.703	43	208970	80.960	ug/l	97
13) Acrolein	2.239	56	122840	441.386	ug/l	100
14) Acrylonitrile	3.069	53	339831	399.241	ug/l	99
15) Acetone	2.392	58	99528	516.677	ug/l	80
16) Carbon Disulfide	2.514	76	300895	83.870	ug/l	99
17) Allyl chloride	2.666	41	216386	82.501	ug/l	86
18) Methylene Chloride	2.788	84	132549	76.768	ug/l	92
19) trans-1,2-Dichloroethene	3.093	96	127335	76.874	ug/l	91
20) Diisopropyl ether	3.757	45	417330	73.720	ug/l	94
21) 1,1-Dichloroethane	3.611	63	229235	73.840	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	150967	76.640	ug/l	95
23) tert-Butyl Alcohol	3.014	59	114051m	339.225	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	399145	75.814	ug/l	96
25) Chloroform	5.093	83	230566	73.170	ug/l	98
26) Cyclohexane	5.471	56	207949	72.170	ug/l #	97
29) 1,1-Dichloropropene	5.696	75	175443	73.475	ug/l	98
30) 2-Butanone	4.562	43	476507	382.137	ug/l #	96
31) 2,2-Dichloropropane	4.477	77	170699	83.031	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	202141	72.511	ug/l	98
33) Carbon Tetrachloride	5.678	117	184821	73.452	ug/l	97
34) Benzene	6.038	78	527217	76.003	ug/l	99
35) Methacrylonitrile	4.922	41	105480	74.237	ug/l	96
36) 1,2-Dichloroethane	6.086	62	179115	71.030	ug/l	97
37) Trichloroethene	7.123	130	150965	75.462	ug/l	100
38) Methylcyclohexane	7.379	83	220362	74.218	ug/l	97
39) 1,2-Dichloropropane	7.428	63	131516	74.185	ug/l	96
40) Dibromomethane	7.580	93	92422	74.182	ug/l	96
41) Bromodichloromethane	7.824	83	178362	73.809	ug/l	99
42) Vinyl Acetate	3.721	43	1636484	367.245	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	184790	72.323	ug/l	96
44) Isopropyl Acetate	6.336	43	298057	74.354	ug/l	97
45) 1,4-Dioxane	7.726	88	62108	1420.166	ug/l #	1
46) Methyl methacrylate	7.690	41	152190	74.986	ug/l	97
47) n-amyl Acetate	10.842	43	264724	77.565	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	202509	82.014	ug/l	97
49) cis-1,3-Dichloropropene	8.366	75	222240	81.038	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	139757	77.278	ug/l	98
51) Ethyl methacrylate	9.116	69	216008	80.097	ug/l	99
52) 1,3-Dichloropropane	9.311	76	235182	77.642	ug/l	99
53) Dibromochloromethane	9.519	129	158619	80.469	ug/l	97
54) 1,2-Dibromoethane	9.610	107	152166	78.729	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	528457	405.342	ug/l	99
56) Bromoform	10.799	173	125784	83.111	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	956181	386.763	ug/l	98
59) 2-Hexanone	9.433	43	719945	395.687	ug/l	99
61) Tetrachloroethene	9.275	164	137891	76.790	ug/l	97
62) Toluene	8.720	91	583809	74.518	ug/l	98
64) Chlorobenzene	10.079	112	387725	76.839	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	149129	78.525	ug/l	99
66) Ethyl Benzene	10.195	91	670763	76.774	ug/l	99
67) m/p-Xylenes	10.299	106	527821	153.068	ug/l	99
68) o-Xylene	10.640	106	262349	77.405	ug/l	98
69) Styrene	10.653	104	434798	77.510	ug/l	99
70) Isopropylbenzene	10.963	105	665965	75.871	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	199359	75.431	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	183369m	76.586	ug/l	
73) Bromobenzene	11.195	156	179761	77.384	ug/l	97
74) n-propylbenzene	11.305	91	767941	77.059	ug/l	100
75) 2-Chlorotoluene	11.366	91	451666	75.774	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	555257	76.192	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	63001	87.952	ug/l	84
78) 4-Chlorotoluene	11.451	91	511317	76.494	ug/l	100
79) tert-butylbenzene	11.713	119	572233	76.563	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	552853	76.790	ug/l	98
81) sec-Butylbenzene	11.890	105	695689	76.927	ug/l	100
82) p-Isopropyltoluene	12.012	119	599746	76.891	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	326649	77.028	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	331928	78.507	ug/l	99
85) n-Butylbenzene	12.335	91	506907	79.936	ug/l	98
86) Hexachloroethane	12.536	117	100534	79.227	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	318029	77.853	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	42228	76.959	ug/l	93
89) 1,2,4-Trichlorobenzene	13.585	180	225894	80.403	ug/l	99
90) Hexachlorobutadiene	13.725	225	104354	77.465	ug/l	98
91) Naphthalene	13.774	128	655842	79.497	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	225473	79.986	ug/l	99

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

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