

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121222\
 Data File : VX033366.D
 Acq On : 12 Dec 2022 11:44
 Operator : JC/MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 12/13/2022
 Supervised By : Mahesh Dadoda 12/13/2022

Quant Time: Dec 12 12:26:18 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X121222W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Dec 12 12:25:09 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.903	128	13947	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	97328	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	107162	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	35260	26.206	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	87.367%#		
60) 4-Bromofluorobenzene	11.079	95	59255	28.907	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	96.367%		
63) Toluene-d8	8.653	98	105134	29.071	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	96.900%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	84999	68.861	ug/l	100
3) Chloromethane	1.294	50	88901	72.579	ug/l	95
4) Vinyl Chloride	1.374	62	103825	74.964	ug/l	98
5) Bromomethane	1.617	94	74189	60.336	ug/l	99
6) Chloroethane	1.691	64	72416	66.196	ug/l	92
7) Trichlorofluoromethane	1.886	101	202817	75.965	ug/l	99
8) Diethyl Ether	2.136	74	65669	76.074	ug/l	80
9) 1,1,2-Trichlorotrifluo...	2.331	101	112657	79.324	ug/l	97
10) 1,1-Dichloroethene	2.325	96	108849	80.226	ug/l	99
11) Methyl Iodide	2.453	142	134334	92.095	ug/l	99
12) Methyl Acetate	2.703	43	144879	72.085	ug/l	92
13) Acrolein	2.239	56	124225	463.505	ug/l	97
14) Acrylonitrile	3.068	53	263948	366.348	ug/l	99
15) Acetone	2.392	58	94002	501.743	ug/l	98
16) Carbon Disulfide	2.514	76	277061	82.030	ug/l	100
17) Allyl chloride	2.666	41	168226	78.033	ug/l	94
18) Methylene Chloride	2.794	84	116051	74.167	ug/l	97
19) trans-1,2-Dichloroethene	3.093	96	119279	79.808	ug/l #	86
20) Diisopropyl ether	3.757	45	353112	73.046	ug/l	91
21) 1,1-Dichloroethane	3.611	63	206227	75.995	ug/l	95
22) cis-1,2-Dichloroethene	4.489	96	140831	80.702	ug/l	92
23) tert-Butyl Alcohol	3.014	59	106621m	455.767	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	372667	76.706	ug/l	97
25) Chloroform	5.099	83	231863	76.607	ug/l	99
26) Cyclohexane	5.470	56	182566	77.037	ug/l #	86
29) 1,1-Dichloropropene	5.696	75	168254	77.947	ug/l	98
30) 2-Butanone	4.562	43	386567	384.076	ug/l	94
31) 2,2-Dichloropropane	4.477	77	175974	95.323	ug/l	98
32) 1,1,1-Trichloroethane	5.385	97	214457	78.982	ug/l	97
33) Carbon Tetrachloride	5.678	117	194499	81.584	ug/l	99
34) Benzene	6.043	78	480250	78.963	ug/l	98
35) Methacrylonitrile	4.922	41	82314	72.209	ug/l	96
36) 1,2-Dichloroethane	6.086	62	177538	70.908	ug/l	95
37) Trichloroethene	7.129	130	138376	81.327	ug/l	95
38) Methylcyclohexane	7.379	83	199656	82.553	ug/l	91
39) 1,2-Dichloropropane	7.433	63	121153	78.697	ug/l	97
40) Dibromomethane	7.580	93	90937	77.367	ug/l	99
41) Bromodichloromethane	7.824	83	185535	82.815	ug/l	98
42) Vinyl Acetate	3.721	43	1385277	358.192	ug/l	94

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	144123	71.184	ug/l	# 87
44) Isopropyl Acetate	6.342	43	244803	72.150	ug/l	98
45) 1,4-Dioxane	7.708	88	57456	1762.973	ug/l	93
46) Methyl methacrylate	7.690	41	123861	72.515	ug/l	85
47) n-amyl Acetate	10.841	43	212050	70.301	ug/l	97
48) t-1,3-Dichloropropene	8.976	75	196556	85.518	ug/l	99
49) cis-1,3-Dichloropropene	8.366	75	210037	86.544	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	129907	80.383	ug/l	97
51) Ethyl methacrylate	9.116	69	191965	79.535	ug/l	91
52) 1,3-Dichloropropane	9.311	76	207981	78.716	ug/l	99
53) Dibromochloromethane	9.525	129	153343	87.248	ug/l	99
54) 1,2-Dibromoethane	9.610	107	142595	81.913	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	440481	377.646	ug/l	95
56) Bromoform	10.799	173	114400	90.915	ug/l	99
58) 4-Methyl-2-Pentanone	8.573	43	732205	349.039	ug/l	96
59) 2-Hexanone	9.433	43	553492	358.354	ug/l	96
61) Tetrachloroethene	9.275	164	118773	79.306	ug/l	96
62) Toluene	8.720	91	553406	79.409	ug/l	99
64) Chlorobenzene	10.079	112	351076	81.483	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	137884	84.008	ug/l	99
66) Ethyl Benzene	10.195	91	626373	80.118	ug/l	98
67) m/p-Xylenes	10.305	106	494345	162.504	ug/l	94
68) o-Xylene	10.640	106	242067	81.097	ug/l	95
69) Styrene	10.658	104	405983	81.811	ug/l	97
70) Isopropylbenzene	10.963	105	633302	79.452	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	184894	76.488	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	168368m	80.198	ug/l	
73) Bromobenzene	11.201	156	158825	82.022	ug/l	92
74) n-propylbenzene	11.305	91	732429	80.873	ug/l	96
75) 2-Chlorotoluene	11.366	91	436007	79.515	ug/l	94
76) 1,3,5-Trimethylbenzene	11.451	105	538228	79.875	ug/l	97
77) t-1,4-Dichloro-2-butene	11.018	75	58617	91.498	ug/l	92
78) 4-Chlorotoluene	11.457	91	500648	79.263	ug/l	95
79) tert-butylbenzene	11.713	119	530977	81.085	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	523681	79.486	ug/l	96
81) sec-Butylbenzene	11.890	105	640840	81.287	ug/l	96
82) p-Isopropyltoluene	12.012	119	545640	82.125	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	291738	82.120	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	289677	81.197	ug/l	98
85) n-Butylbenzene	12.335	91	467286	82.981	ug/l	97
86) Hexachloroethane	12.536	117	97476	89.369	ug/l	96
87) 1,2-Dichlorobenzene	12.335	146	283271	80.209	ug/l	97
88) 1,2-Dibromo-3-Chloropr...	12.945	75	40146	78.281	ug/l	90
89) 1,2,4-Trichlorobenzene	13.591	180	183996	84.832	ug/l	99
90) Hexachlorobutadiene	13.725	225	74135	84.923	ug/l	99
91) Naphthalene	13.774	128	594225	81.171	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	181750	83.316	ug/l	96

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

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