

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010723\
 Data File : VX033647.D
 Acq On : 06 Jan 2023 22:41
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Quant Time: Jan 07 05:50:11 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X010723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jan 07 05:49:19 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 01/09/2023
 Supervised By : Mahesh Dadoda 01/09/2023

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

Internal Standards						
1) Bromochloromethane	4.903	128	15339	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	105579	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	117494	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	40288	30.059	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.200%			
60) 4-Bromofluorobenzene	11.079	95	63557	29.380	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.933%			
63) Toluene-d8	8.647	98	113546	29.289	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 97.633%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	8440	6.902	ug/l	94
3) Chloromethane	1.294	50	8165	6.430	ug/l	97
4) Vinyl Chloride	1.374	62	6726	4.850	ug/l	98
5) Bromomethane	1.617	94	4616	4.756	ug/l	93
6) Chloroethane	1.691	64	4946	5.097	ug/l	95
7) Trichlorofluoromethane	1.892	101	13792	5.116	ug/l	96
8) Diethyl Ether	2.136	74	4132	5.058	ug/l	93
9) 1,1,2-Trichlorotrifluo...	2.331	101	6586	4.949	ug/l	96
10) 1,1-Dichloroethene	2.319	96	5715	4.549	ug/l	95
11) Methyl Iodide	2.453	142	11963	7.707	ug/l	98
12) Methyl Acetate	2.709	43	14095	7.133	ug/l	100
13) Acrolein	2.245	56	6997	25.236	ug/l	97
14) Acrylonitrile	3.075	53	22800	32.110	ug/l	99
15) Acetone	2.410	58	5672	26.741	ug/l	87
16) Carbon Disulfide	2.514	76	20767	6.044	ug/l	99
17) Allyl chloride	2.666	41	13759	6.150	ug/l	93
18) Methylene Chloride	2.788	84	10371	6.683	ug/l	94
19) trans-1,2-Dichloroethene	3.093	96	8984	5.773	ug/l	88
20) Diisopropyl ether	3.757	45	28861	6.045	ug/l #	69
21) 1,1-Dichloroethane	3.611	63	16286	5.907	ug/l	99
22) cis-1,2-Dichloroethene	4.495	96	10128	5.586	ug/l	97
23) tert-Butyl Alcohol	3.032	59	9143m	30.743	ug/l	
24) Methyl tert-Butyl Ether	3.117	73	27220	5.590	ug/l	100
25) Chloroform	5.099	83	16552	5.399	ug/l	95
26) Cyclohexane	5.477	56	14996	6.130	ug/l #	96
29) 1,1-Dichloropropene	5.702	75	11875	5.513	ug/l	99
30) 2-Butanone	4.574	43	31782	31.122	ug/l #	98
31) 2,2-Dichloropropane	4.477	77	9599	4.423	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	13797	5.093	ug/l	99
33) Carbon Tetrachloride	5.684	117	12476	5.053	ug/l	99
34) Benzene	6.037	78	35140	5.695	ug/l	97
35) Methacrylonitrile	4.928	41	7165	6.577	ug/l	96
36) 1,2-Dichloroethane	6.086	62	13189	5.631	ug/l	99
37) Trichloroethene	7.129	130	10014	5.712	ug/l	99
38) Methylcyclohexane	7.379	83	14444	5.625	ug/l	98
39) 1,2-Dichloropropane	7.433	63	8587	5.528	ug/l	98
40) Dibromomethane	7.580	93	6179	5.290	ug/l	96
41) Bromodichloromethane	7.824	83	11597	4.929	ug/l	90
42) Vinyl Acetate	3.721	43	108675	30.145	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.714	43	12631	6.518	ug/l #	92
44) Isopropyl Acetate	6.342	43	19193	6.062	ug/l	97
45) 1,4-Dioxane	7.750	88	4506m	123.326	ug/l	
46) Methyl methacrylate	7.696	41	9702	6.085	ug/l	92
47) n-amyl Acetate	10.841	43	15650	5.848	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	10471	4.441	ug/l	93
49) cis-1,3-Dichloropropene	8.366	75	12396	4.854	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	9249	5.707	ug/l	95
51) Ethyl methacrylate	9.116	69	12257	5.222	ug/l	97
52) 1,3-Dichloropropane	9.311	76	15254	5.716	ug/l	100
53) Dibromochloromethane	9.518	129	9084	4.788	ug/l	97
54) 1,2-Dibromoethane	9.610	107	9573	5.425	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	30119	26.902	ug/l	99
56) Bromoform	10.799	173	6417	4.617	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	61185	30.867	ug/l	99
59) 2-Hexanone	9.433	43	45719	30.758	ug/l	96
61) Tetrachloroethene	9.275	164	8937	5.665	ug/l	96
62) Toluene	8.720	91	39611	5.554	ug/l	96
64) Chlorobenzene	10.079	112	25122	5.552	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.165	131	8844	5.008	ug/l	97
66) Ethyl Benzene	10.195	91	42124	5.254	ug/l	100
67) m/p-Xylenes	10.299	106	33109	10.507	ug/l	97
68) o-Xylene	10.640	106	16487	5.371	ug/l	98
69) Styrene	10.652	104	26893	5.282	ug/l	99
70) Isopropylbenzene	10.963	105	42553	5.254	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	13256	5.501	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	11804m	5.520	ug/l	
73) Bromobenzene	11.201	156	11153	5.488	ug/l	99
74) n-propylbenzene	11.305	91	47551	5.131	ug/l	99
75) 2-Chlorotoluene	11.366	91	29765	5.350	ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	35810	5.272	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	2733	3.964	ug/l	86
78) 4-Chlorotoluene	11.451	91	32557	5.138	ug/l	99
79) tert-butylbenzene	11.713	119	36178	5.340	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	34745	5.206	ug/l	99
81) sec-Butylbenzene	11.890	105	42848	5.258	ug/l	100
82) p-Isopropyltoluene	12.012	119	36162	5.190	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	20480	5.511	ug/l	98
84) 1,4-Dichlorobenzene	12.042	146	20542	5.488	ug/l	99
85) n-Butylbenzene	12.335	91	28604	4.935	ug/l	100
86) Hexachloroethane	12.536	117	5583	4.629	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	19876	5.458	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	2470	4.794	ug/l	96
89) 1,2,4-Trichlorobenzene	13.591	180	12174	5.242	ug/l	100
90) Hexachlorobutadiene	13.725	225	6462	6.436	ug/l	96
91) Naphthalene	13.774	128	35885	4.872	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	12553	5.416	ug/l	99

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

