

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX052323\
 Data File : VX035807.D
 Acq On : 23 May 2023 10:52
 Operator : JC/MD
 Sample : VSTDICC150
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC150

Quant Time: May 23 11:19:28 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X052323W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 23 11:17:24 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 05/25/2023
 Supervised By : Mahesh Dadoda 05/25/2023

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

Internal Standards						
1) Bromochloromethane	4.904	128	36785	30.000	ug/l	0.01
28) 1,4-Difluorobenzene	6.763	114	218755	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	197235	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	92645	26.884	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	89.600%	#	
60) 4-Bromofluorobenzene	11.079	95	101659	26.452	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	88.167%		
63) Toluene-d8	8.647	98	260531	36.679	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	122.267%	#	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.167	85	331707	107.704	ug/l	98
3) Chloromethane	1.295	50	352299	87.621	ug/l	98
4) Vinyl Chloride	1.374	62	347785	87.872	ug/l	96
5) Bromomethane	1.618	94	216732	82.685	ug/l	98
6) Chloroethane	1.691	64	221191	85.536	ug/l	98
7) Trichlorofluoromethane	1.886	101	565569	90.555	ug/l	100
8) Diethyl Ether	2.130	74	203084	87.759	ug/l	99
9) 1,1,2-Trichlorotrifluo...	2.325	101	305482	96.078	ug/l	99
10) 1,1-Dichloroethene	2.319	96	294070	89.713	ug/l	97
11) Methyl Iodide	2.453	142	380036	90.906	ug/l	96
12) Methyl Acetate	2.709	43	807874	107.216	ug/l	99
13) Acrolein	2.240	56	304456	368.814	ug/l	100
14) Acrylonitrile	3.075	53	983294	482.029	ug/l	99
15) Acetone	2.404	58	265988	471.378	ug/l	98
16) Carbon Disulfide	2.514	76	715985	86.445	ug/l	99
17) Allyl chloride	2.660	41	607732	94.889	ug/l	98
18) Methylene Chloride	2.788	84	356252	91.171	ug/l	98
19) trans-1,2-Dichloroethene	3.087	96	316991	87.315	ug/l	93
20) Diisopropyl ether	3.764	45	1206340	91.611	ug/l #	87
21) 1,1-Dichloroethane	3.605	63	653675	93.013	ug/l	100
22) cis-1,2-Dichloroethene	4.483	96	393327	92.815	ug/l	99
23) tert-Butyl Alcohol	3.081	59	376135m	416.342	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	1125486	91.108	ug/l	94
25) Chloroform	5.093	83	658145	91.692	ug/l	99
26) Cyclohexane	5.471	56	550832	91.959	ug/l #	98
29) 1,1-Dichloropropene	5.690	75	484062	104.687	ug/l	98
30) 2-Butanone	4.568	43	1433333	540.864	ug/l	99
31) 2,2-Dichloropropane	4.471	77	539053	113.935	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	572133	105.460	ug/l	100
33) Carbon Tetrachloride	5.678	117	476288	106.858	ug/l	95
34) Benzene	6.038	78	1397441	102.739	ug/l	100
35) Methacrylonitrile	4.922	41	321414	111.152	ug/l	97
36) 1,2-Dichloroethane	6.086	62	541705	100.939	ug/l	100
37) Trichloroethene	7.123	130	362123	104.349	ug/l	95
38) Methylcyclohexane	7.379	83	579177	117.784	ug/l	98
39) 1,2-Dichloropropane	7.428	63	380182	106.824	ug/l	98
40) Dibromomethane	7.580	93	261843	107.409	ug/l	97
41) Bromodichloromethane	7.824	83	506912	110.480	ug/l #	99
42) Vinyl Acetate	3.721	43	4423206	524.028	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	562826	110.775	ug/l	99
44) Isopropyl Acetate	6.342	43	955591	111.205	ug/l	100
45) 1,4-Dioxane	7.739	88	165410	1942.828	ug/l #	84
46) Methyl methacrylate	7.690	41	467280	111.398	ug/l	98
47) n-amyl Acetate	10.842	43	816155	109.317	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	587991	117.233	ug/l	98
49) cis-1,3-Dichloropropene	8.366	75	621570	112.756	ug/l	98
50) 1,1,2-Trichloroethane	9.153	97	362914	105.894	ug/l	99
51) Ethyl methacrylate	9.116	69	600470	109.269	ug/l	98
52) 1,3-Dichloropropane	9.311	76	631707	104.718	ug/l	99
53) Dibromochloromethane	9.525	129	380317	113.211	ug/l	100
54) 1,2-Dibromoethane	9.610	107	386604	105.716	ug/l	99
55) 2-Chloroethyl vinyl ether	8.245	63	1531103	526.539	ug/l	99
56) Bromoform	10.799	173	259997	112.586	ug/l	97
58) 4-Methyl-2-Pentanone	8.580	43	2734206	625.716	ug/l	99
59) 2-Hexanone	9.433	43	2039923	617.016	ug/l	100
61) Tetrachloroethene	9.275	164	284623	113.172	ug/l	97
62) Toluene	8.720	91	1470183	118.917	ug/l	99
64) Chlorobenzene	10.080	112	934089	121.840	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	351321	129.061	ug/l	99
66) Ethyl Benzene	10.195	91	1701535	123.737	ug/l	99
67) m/p-Xylenes	10.299	106	1276506	242.741	ug/l	97
68) o-Xylene	10.640	106	638249	122.620	ug/l	99
69) Styrene	10.659	104	1077184	125.240	ug/l	99
70) Isopropylbenzene	10.964	105	1678349	125.134	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.214	83	552361	123.740	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	517205m	129.373	ug/l	
73) Bromobenzene	11.195	156	389479	120.355	ug/l	94
74) n-propylbenzene	11.305	91	2025591	129.238	ug/l	99
75) 2-Chlorotoluene	11.366	91	1204081	123.076	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	1417809	125.195	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	186561	150.472	ug/l	92
78) 4-Chlorotoluene	11.457	91	1376979	122.379	ug/l	100
79) tert-butylbenzene	11.713	119	1389226	128.592	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	1408569	124.583	ug/l	100
81) sec-Butylbenzene	11.890	105	1805744	137.663	ug/l	100
82) p-Isopropyltoluene	12.012	119	1483969	133.839	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	737320	120.489	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	742523	120.520	ug/l	99
85) n-Butylbenzene	12.335	91	1377233	144.359	ug/l	99
86) Hexachloroethane	12.536	117	264812	146.134	ug/l	93
87) 1,2-Dichlorobenzene	12.335	146	694444	115.692	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.945	75	123998	128.265	ug/l	97
89) 1,2,4-Trichlorobenzene	13.585	180	461579	128.675	ug/l	99
90) Hexachlorobutadiene	13.725	225	180461	134.501	ug/l	99
91) Naphthalene	13.774	128	1565787	124.272	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	450395	126.172	ug/l	99

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

