

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112423\
 Data File : VX039013.D
 Acq On : 24 Nov 2023 09:22
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

Reviewed By :John
 Carlone

Quant Time: Nov 27 03:05:44 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X112423W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Nov 27 03:05:03 2023
 Response via : Initial Calibration

11/27/2023
 Supervised By :Mahesh
 Dadoda

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

Internal Standards						
1) Bromochloromethane	4.891	128	10750	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	86852	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	107819	30.000	ug/l	0.00

System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	46060	31.319	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	104.400%
60) 4-Bromofluorobenzene	11.079	95	68271	28.990	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	96.633%
63) Toluene-d8	8.647	98	128478	30.139	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	100.467%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.166	85	8918	5.543	ug/l	97
3) Chloromethane	1.294	50	10280	5.580	ug/l	98
4) Vinyl Chloride	1.374	62	10283	5.529	ug/l	100
5) Bromomethane	1.605	94	6847	6.019	ug/l	97
6) Chloroethane	1.685	64	6468	5.786	ug/l	97
7) Trichlorofluoromethane	1.886	101	14718	5.733	ug/l	97
8) Diethyl Ether	2.136	74	5331	5.410	ug/l	91
9) 1,1,2-Trichlorotrifluo...	2.331	101	8405	5.794	ug/l	99
10) 1,1-Dichloroethene	2.319	96	8223	5.624	ug/l	98
11) Methyl Iodide	2.453	142	7740	4.830	ug/l	87
12) Methyl Acetate	2.697	43	22688	4.975	ug/l	99
13) Acrolein	2.233	56	12113	30.319	ug/l	99
14) Acrylonitrile	3.056	53	29706	26.632	ug/l	97
15) Acetone	2.374	58	18206	44.903	ug/l	100
16) Carbon Disulfide	2.514	76	23814	5.377	ug/l	98
17) Allyl chloride	2.666	41	15704	5.410	ug/l	92
18) Methylene Chloride	2.788	84	10143	5.852	ug/l	95
19) trans-1,2-Dichloroethene	3.087	96	9311	5.630	ug/l	89
20) Diisopropyl ether	3.751	45	29377	5.318	ug/l #	82
21) 1,1-Dichloroethane	3.605	63	16528	5.381	ug/l	96
22) cis-1,2-Dichloroethene	4.483	96	10243	5.344	ug/l	98
23) tert-Butyl Alcohol	2.947	59	17927	29.031	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	27907	5.181	ug/l	94
25) Chloroform	5.086	83	16742	5.431	ug/l	88
26) Cyclohexane	5.464	56	15740	5.662	ug/l #	99
29) 1,1-Dichloropropene	5.690	75	13025	5.350	ug/l	97
30) 2-Butanone	4.550	43	67598	36.877	ug/l	100
31) 2,2-Dichloropropane	4.477	77	15283	5.490	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	14747	5.240	ug/l	98
33) Carbon Tetrachloride	5.672	117	11982	5.055	ug/l	94
34) Benzene	6.031	78	36712	5.176	ug/l	97
35) Methacrylonitrile	4.916	41	8446	5.202	ug/l	88
36) 1,2-Dichloroethane	6.086	62	13734	5.277	ug/l #	93
37) Trichloroethene	7.129	130	9215	5.119	ug/l	98
38) Methylcyclohexane	7.379	83	15857	5.227	ug/l	97
39) 1,2-Dichloropropane	7.428	63	9764	5.220	ug/l	94
40) Dibromomethane	7.580	93	6631	5.017	ug/l	98
41) Bromodichloromethane	7.818	83	12919	5.088	ug/l #	94
42) Vinyl Acetate	3.715	43	114207	26.158	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	14579	4.623	ug/l	95
44) Isopropyl Acetate	6.336	43	24814	4.991	ug/l	100
45) 1,4-Dioxane	7.653	88	4524	89.140	ug/l #	91
46) Methyl methacrylate	7.690	41	14030	4.936	ug/l	98
47) n-amyl Acetate	10.842	43	19135	4.547	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	14240	4.837	ug/l	94
49) cis-1,3-Dichloropropene	8.366	75	15243	5.019	ug/l	97
50) 1,1,2-Trichloroethane	9.153	97	9096	5.067	ug/l	95
51) Ethyl methacrylate	9.116	69	11228	4.996	ug/l	94
52) 1,3-Dichloropropane	9.305	76	15837	5.144	ug/l	97
53) Dibromochloromethane	9.519	129	9689	5.025	ug/l	95
54) 1,2-Dibromoethane	9.604	107	9871	5.014	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	35235	24.750	ug/l	99
56) Bromoform	10.799	173	6667	4.791	ug/l	96
58) 4-Methyl-2-Pentanone	8.568	43	85084	26.023	ug/l	100
59) 2-Hexanone	9.427	43	86038	32.058	ug/l	99
61) Tetrachloroethene	9.269	164	7767	5.541	ug/l	93
62) Toluene	8.714	91	40518	5.293	ug/l	99
64) Chlorobenzene	10.079	112	24587	5.280	ug/l	94
65) 1,1,1,2-Tetrachloroethane	10.159	131	8693	5.184	ug/l	97
66) Ethyl Benzene	10.195	91	45353	5.203	ug/l	94
67) m/p-Xylenes	10.299	106	34270	10.640	ug/l	96
68) o-Xylene	10.640	106	15802	5.065	ug/l	98
69) Styrene	10.653	104	22600	4.894	ug/l	99
70) Isopropylbenzene	10.957	105	43162	5.171	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.207	83	15649	5.022	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	13235m	3.696	ug/l	
73) Bromobenzene	11.195	156	9864	5.190	ug/l	96
74) n-propylbenzene	11.305	91	53341	5.215	ug/l	99
75) 2-Chlorotoluene	11.366	91	31098	5.183	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	36667	5.099	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	4951	4.738	ug/l	93
78) 4-Chlorotoluene	11.451	91	36162	5.126	ug/l	99
79) tert-butylbenzene	11.713	119	36055	5.273	ug/l	98
80) 1,2,4-Trimethylbenzene	11.750	105	36384	5.055	ug/l	98
81) sec-Butylbenzene	11.890	105	44689	5.170	ug/l	99
82) p-Isopropyltoluene	12.006	119	36309	4.956	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	18597	5.113	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	19303	5.172	ug/l	99
85) n-Butylbenzene	12.329	91	36015	4.978	ug/l	97
86) Hexachloroethane	12.536	117	6648	4.789	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	18312	5.236	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	3825	4.799	ug/l	97
89) 1,2,4-Trichlorobenzene	13.585	180	11269	4.860	ug/l	92
90) Hexachlorobutadiene	13.719	225	4172	5.039	ug/l	96
91) Naphthalene	13.774	128	41183	4.816	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	11361	5.058	ug/l	96

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

