

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112423\
 Data File : VX039016.D
 Acq On : 24 Nov 2023 10:30
 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 11/27/2023
 Supervised By : Mahesh Dadoda 11/27/2023

Quant Time: Nov 27 03:08:05 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

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

Internal Standards						
1) Bromochloromethane	4.891	128	11213	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	84370	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	107288	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	44029	28.702	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	95.667%		
60) 4-Bromofluorobenzene	11.079	95	71464	30.496	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	101.667%		
63) Toluene-d8	8.647	98	126474	29.816	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.400%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.166	85	163417	97.370	ug/l	98
3) Chloromethane	1.294	50	185238	96.393	ug/l	94
4) Vinyl Chloride	1.374	62	185854	95.799	ug/l	99
5) Bromomethane	1.599	94	100476	84.676	ug/l	100
6) Chloroethane	1.678	64	105251	90.268	ug/l	98
7) Trichlorofluoromethane	1.880	101	254255	94.956	ug/l	97
8) Diethyl Ether	2.130	74	98077	95.422	ug/l	97
9) 1,1,2-Trichlorotrifluo...	2.325	101	145337	96.053	ug/l	100
10) 1,1-Dichloroethene	2.319	96	146357	95.958	ug/l	93
11) Methyl Iodide	2.453	142	164423	98.378	ug/l	99
12) Methyl Acetate	2.703	43	454305	95.503	ug/l	98
13) Acrolein	2.233	56	192854	462.784	ug/l	99
14) Acrylonitrile	3.062	53	555323	477.301	ug/l	99
15) Acetone	2.379	58	183021	432.764	ug/l	100
16) Carbon Disulfide	2.507	76	437184	94.643	ug/l	98
17) Allyl chloride	2.660	41	294176	97.158	ug/l	96
18) Methylene Chloride	2.788	84	173201	95.800	ug/l	98
19) trans-1,2-Dichloroethene	3.087	96	167402	97.044	ug/l	97
20) Diisopropyl ether	3.757	45	554421	96.221	ug/l	94
21) 1,1-Dichloroethane	3.605	63	307641	96.029	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	191898	95.990	ug/l	99
23) tert-Butyl Alcohol	2.971	59	302056	468.951	ug/l #	100
24) Methyl tert-Butyl Ether	3.111	73	540042	96.118	ug/l	100
25) Chloroform	5.092	83	310908	96.694	ug/l	97
26) Cyclohexane	5.470	56	278420	96.021	ug/l #	100
29) 1,1-Dichloropropene	5.690	75	237512	100.423	ug/l	100
30) 2-Butanone	4.550	43	861628	483.869	ug/l	99
31) 2,2-Dichloropropane	4.477	77	273396	101.101	ug/l	100
32) 1,1,1-Trichloroethane	5.379	97	278753	101.971	ug/l	98
33) Carbon Tetrachloride	5.678	117	239044	103.813	ug/l	97
34) Benzene	6.037	78	693649	100.678	ug/l	99
35) Methacrylonitrile	4.916	41	164956	104.579	ug/l	97
36) 1,2-Dichloroethane	6.086	62	251119	99.334	ug/l	100
37) Trichloroethene	7.123	130	174798	99.961	ug/l	100
38) Methylcyclohexane	7.379	83	299366	101.586	ug/l	99
39) 1,2-Dichloropropane	7.427	63	182752	100.576	ug/l	100
40) Dibromomethane	7.580	93	127786	99.535	ug/l	97
41) Bromodichloromethane	7.818	83	252634	102.429	ug/l	97
42) Vinyl Acetate	3.721	43	2135817	503.578	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	311650	101.728	ug/l	99
44) Isopropyl Acetate	6.336	43	492403	101.959	ug/l	100
45) 1,4-Dioxane	7.659	88	103746	2104.321	ug/l	97
46) Methyl methacrylate	7.689	41	279192	101.113	ug/l	97
47) n-amyl Acetate	10.841	43	445277	108.933	ug/l	100
48) t-1,3-Dichloropropene	8.976	75	293535	102.640	ug/l	96
49) cis-1,3-Dichloropropene	8.366	75	303824	102.983	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	178214	102.187	ug/l	97
51) Ethyl methacrylate	9.116	69	231991	106.266	ug/l	94
52) 1,3-Dichloropropane	9.305	76	300665	100.541	ug/l	100
53) Dibromochloromethane	9.518	129	194562	103.878	ug/l	99
54) 1,2-Dibromoethane	9.610	107	195457	102.198	ug/l	100
55) 2-Chloroethyl vinyl ether	8.244	63	752387	544.034	ug/l	99
56) Bromoform	10.799	173	147349	109.003	ug/l	98
58) 4-Methyl-2-Pentanone	8.573	43	1622145	498.587	ug/l	98
59) 2-Hexanone	9.433	43	1347714	504.650	ug/l	99
61) Tetrachloroethene	9.275	164	136269	97.690	ug/l	98
62) Toluene	8.720	91	763834	100.279	ug/l	100
64) Chlorobenzene	10.079	112	465929	100.560	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.165	131	172032	103.096	ug/l	98
66) Ethyl Benzene	10.195	91	869332	100.228	ug/l	99
67) m/p-Xylenes	10.299	106	650707	203.026	ug/l	98
68) o-Xylene	10.640	106	316197	101.847	ug/l	99
69) Styrene	10.652	104	475339	103.454	ug/l	99
70) Isopropylbenzene	10.963	105	842617	101.440	ug/l	99
71) 1,1,2,2-Tetrachloroethane	11.213	83	316086	101.932	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	267996m	75.207	ug/l	
73) Bromobenzene	11.195	156	192055	101.553	ug/l	99
74) n-propylbenzene	11.305	91	1038104	102.003	ug/l	100
75) 2-Chlorotoluene	11.366	91	606869	101.639	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	733849	102.549	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	114722	110.338	ug/l	94
78) 4-Chlorotoluene	11.451	91	716083	102.007	ug/l	99
79) tert-butylbenzene	11.713	119	695060	102.146	ug/l	100
80) 1,2,4-Trimethylbenzene	11.750	105	741360	103.514	ug/l	100
81) sec-Butylbenzene	11.890	105	884736	102.851	ug/l	100
82) p-Isopropyltoluene	12.006	119	756985	103.831	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	372489	102.920	ug/l	99
84) 1,4-Dichlorobenzene	12.042	146	377140	101.557	ug/l	100
85) n-Butylbenzene	12.329	91	757027	105.155	ug/l	99
86) Hexachloroethane	12.536	117	148560	107.545	ug/l	100
87) 1,2-Dichlorobenzene	12.335	146	350869	100.817	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.939	75	81495	102.760	ug/l	97
89) 1,2,4-Trichlorobenzene	13.585	180	237863	103.086	ug/l	99
90) Hexachlorobutadiene	13.725	225	84758	102.874	ug/l	99
91) Naphthalene	13.774	128	871825	102.450	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	231877	103.748	ug/l	98

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

