

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092723\
 Data File : VX037936.D
 Acq On : 27 Sep 2023 20:45
 Operator : JC/MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 ICVVX092723

Quant Time: Sep 28 06:12:05 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X092723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Sep 28 06:08:32 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 09/28/2023
 Supervised By : Semsettin Yesilyurt 09/28/2023

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

Internal Standards						
1) Bromochloromethane	4.904	128	45984	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	255488	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	244571	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	98375	29.678	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	98.933%		
60) 4-Bromofluorobenzene	11.079	95	118015	29.600	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	98.667%		
63) Toluene-d8	8.647	98	316478	29.976	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.933%		
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.167	85	49157	20.392	ug/l	98
3) Chloromethane	1.295	50	53715	20.807	ug/l	100
4) Vinyl Chloride	1.374	62	59564	20.610	ug/l	100
5) Bromomethane	1.612	94	45492	20.433	ug/l	99
6) Chloroethane	1.691	64	38323	19.752	ug/l	95
7) Trichlorofluoromethane	1.892	101	97292	20.395	ug/l	99
8) Diethyl Ether	2.136	74	36642	20.820	ug/l	85
9) 1,1,2-Trichlorotrifluo...	2.331	101	49324	20.280	ug/l	98
10) 1,1-Dichloroethene	2.319	96	48878	20.530	ug/l	93
11) Methyl Iodide	2.453	142	68440	21.240	ug/l	99
12) Methyl Acetate	2.703	43	99727	20.608	ug/l	99
13) Acrolein	2.233	56	52443	93.912	ug/l	96
14) Acrylonitrile	3.063	53	135873	101.694	ug/l	97
15) Acetone	2.374	58	39377	101.888	ug/l	91
16) Carbon Disulfide	2.514	76	120879	20.807	ug/l	97
17) Allyl chloride	2.666	41	74358	20.401	ug/l	95
18) Methylene Chloride	2.794	84	57291	20.078	ug/l	93
19) trans-1,2-Dichloroethene	3.093	96	55425	20.655	ug/l	98
20) Diisopropyl ether	3.757	45	162151	20.838	ug/l #	85
21) 1,1-Dichloroethane	3.611	63	96656	20.559	ug/l	99
22) cis-1,2-Dichloroethene	4.489	96	66643	20.917	ug/l	93
23) tert-Butyl Alcohol	2.953	59	55072	98.788	ug/l #	1
24) Methyl tert-Butyl Ether	3.111	73	169760	20.601	ug/l	97
25) Chloroform	5.099	83	106453	20.589	ug/l	99
26) Cyclohexane	5.471	56	80117	20.024	ug/l #	95
29) 1,1-Dichloropropene	5.690	75	75262	20.379	ug/l	97
30) 2-Butanone	4.550	43	178941	100.959	ug/l	97
31) 2,2-Dichloropropane	4.477	77	73260	19.690	ug/l	99
32) 1,1,1-Trichloroethane	5.385	97	90417	20.431	ug/l	98
33) Carbon Tetrachloride	5.684	117	77775	20.530	ug/l	98
34) Benzene	6.038	78	228738	20.733	ug/l	95
35) Methacrylonitrile	4.922	41	36992	19.852	ug/l	94
36) 1,2-Dichloroethane	6.092	62	82227	21.069	ug/l	99
37) Trichloroethene	7.129	130	64139	21.074	ug/l	89
38) Methylcyclohexane	7.379	83	92967	20.027	ug/l	96
39) 1,2-Dichloropropane	7.434	63	58248	20.637	ug/l	96
40) Dibromomethane	7.586	93	43508	20.890	ug/l	98
41) Bromodichloromethane	7.824	83	76776	20.191	ug/l	99
42) Vinyl Acetate	3.721	43	581440	104.065	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	73365	20.938	ug/l	97
44) Isopropyl Acetate	6.342	43	118985	20.526	ug/l	96
45) 1,4-Dioxane	7.659	88	28113	420.866	ug/l #	1
46) Methyl methacrylate	7.696	41	56531	20.516	ug/l	93
47) n-amyl Acetate	10.842	43	108258	19.850	ug/l	95
48) t-1,3-Dichloropropene	8.976	75	81332	19.689	ug/l	96
49) cis-1,3-Dichloropropene	8.366	75	90924	20.496	ug/l	95
50) 1,1,2-Trichloroethane	9.153	97	61824	20.772	ug/l	97
51) Ethyl methacrylate	9.116	69	89086	20.314	ug/l	97
52) 1,3-Dichloropropane	9.311	76	99585	20.858	ug/l	98
53) Dibromochloromethane	9.519	129	61744	20.129	ug/l	100
54) 1,2-Dibromoethane	9.610	107	66654	20.638	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	217262	101.630	ug/l	98
56) Bromoform	10.799	173	43982	19.064	ug/l	98
58) 4-Methyl-2-Pentanone	8.574	43	371317	103.713	ug/l	96
59) 2-Hexanone	9.433	43	279464	102.785	ug/l	97
61) Tetrachloroethene	9.275	164	54314	20.868	ug/l	98
62) Toluene	8.720	91	263467	20.767	ug/l	98
64) Chlorobenzene	10.080	112	166909	21.090	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.165	131	59308	20.645	ug/l	99
66) Ethyl Benzene	10.195	91	291006	20.784	ug/l	98
67) m/p-Xylenes	10.299	106	228171	41.367	ug/l	99
68) o-Xylene	10.640	106	112696	21.099	ug/l	100
69) Styrene	10.653	104	184657	20.607	ug/l	98
70) Isopropylbenzene	10.964	105	294411	20.769	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.213	83	94896	20.312	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	84057m	20.491	ug/l	
73) Bromobenzene	11.195	156	74502	20.721	ug/l	91
74) n-propylbenzene	11.305	91	348130	20.557	ug/l	100
75) 2-Chlorotoluene	11.366	91	204324	20.609	ug/l	97
76) 1,3,5-Trimethylbenzene	11.451	105	251803	20.599	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	23925	18.415	ug/l	95
78) 4-Chlorotoluene	11.451	91	238819	20.534	ug/l	98
79) tert-butylbenzene	11.713	119	245174	20.378	ug/l	95
80) 1,2,4-Trimethylbenzene	11.750	105	251378	20.686	ug/l	98
81) sec-Butylbenzene	11.890	105	315834	20.413	ug/l	99
82) p-Isopropyltoluene	12.006	119	262573	20.213	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	142472	20.508	ug/l	99
84) 1,4-Dichlorobenzene	12.043	146	146372	20.792	ug/l	99
85) n-Butylbenzene	12.329	91	242979	19.992	ug/l	100
86) Hexachloroethane	12.536	117	40554	19.162	ug/l	95
87) 1,2-Dichlorobenzene	12.335	146	140399	20.512	ug/l	98
88) 1,2-Dibromo-3-Chloropr...	12.939	75	18805	20.208	ug/l	88
89) 1,2,4-Trichlorobenzene	13.585	180	95928	20.599	ug/l	98
90) Hexachlorobutadiene	13.725	225	40849	19.966	ug/l	97
91) Naphthalene	13.774	128	293171	20.757	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	93992	20.731	ug/l	100

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

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