

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX092723\
 Data File : VX037930.D
 Acq On : 27 Sep 2023 18:04
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Quant Time: Sep 28 05:44:14 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X092723W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Sep 28 03:42:12 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	4.903	128	44723	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	251793	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	240511	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	98381	30.517	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.733%			
60) 4-Bromofluorobenzene	11.079	95	113862	29.041	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 96.800%			
63) Toluene-d8	8.647	98	313166	30.163	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.533%			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	12830	5.472	ug/l	99
3) Chloromethane	1.300	50	13659	5.440	ug/l	100
4) Vinyl Chloride	1.374	62	15020	5.344	ug/l	99
5) Bromomethane	1.605	94	12256	5.660	ug/l	100
6) Chloroethane	1.691	64	10572	5.601	ug/l	98
7) Trichlorofluoromethane	1.892	101	24358	5.250	ug/l	97
8) Diethyl Ether	2.136	74	9053	5.289	ug/l	89
9) 1,1,2-Trichlorotrifluo...	2.331	101	12672	5.357	ug/l	97
10) 1,1-Dichloroethene	2.319	96	11892	5.136	ug/l	95
11) Methyl Iodide	2.453	142	15158	4.837	ug/l	97
12) Methyl Acetate	2.703	43	23771	5.051	ug/l	96
13) Acrolein	2.233	56	13903	25.599	ug/l	98
14) Acrylonitrile	3.062	53	32642	25.120	ug/l	97
15) Acetone	2.379	58	10705	28.480	ug/l	88
16) Carbon Disulfide	2.514	76	27252	4.823	ug/l	96
17) Allyl chloride	2.666	41	17708	4.995	ug/l	97
18) Methylene Chloride	2.788	84	15193	5.475	ug/l	96
19) trans-1,2-Dichloroethene	3.093	96	13342	5.112	ug/l	100
20) Diisopropyl ether	3.757	45	37885	5.006	ug/l #	69
21) 1,1-Dichloroethane	3.611	63	23360	5.109	ug/l	99
22) cis-1,2-Dichloroethene	4.495	96	15644	5.049	ug/l	97
23) tert-Butyl Alcohol	2.953	59	13603	25.097	ug/l #	1
24) Methyl tert-Butyl Ether	3.111	73	40467	5.049	ug/l	99
25) Chloroform	5.099	83	25513	5.073	ug/l	96
26) Cyclohexane	5.476	56	20369	5.234	ug/l #	97
29) 1,1-Dichloropropene	5.696	75	18590	5.107	ug/l	98
30) 2-Butanone	4.562	43	44447	25.445	ug/l	97
31) 2,2-Dichloropropane	4.477	77	17765	4.845	ug/l	99
32) 1,1,1-Trichloroethane	5.391	97	21174	4.855	ug/l	98
33) Carbon Tetrachloride	5.678	117	16861	4.516	ug/l	99
34) Benzene	6.037	78	55605	5.114	ug/l	98
35) Methacrylonitrile	4.916	41	9023m	4.913	ug/l	
36) 1,2-Dichloroethane	6.092	62	20348	5.290	ug/l #	92
37) Trichloroethene	7.129	130	14955	4.986	ug/l	94
38) Methylcyclohexane	7.379	83	22973	5.021	ug/l	98
39) 1,2-Dichloropropane	7.433	63	14323	5.149	ug/l	94
40) Dibromomethane	7.586	93	10178	4.959	ug/l	97
41) Bromodichloromethane	7.824	83	17004	4.537	ug/l	94
42) Vinyl Acetate	3.727	43	131651	23.908	ug/l	98

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.721	43	17764	5.144	ug/l	98
44) Isopropyl Acetate	6.342	43	27298	4.778	ug/l	99
45) 1,4-Dioxane	7.659	88	6427	97.628	ug/l #	1
46) Methyl methacrylate	7.696	41	12367	4.554	ug/l	95
47) n-amyl Acetate	10.841	43	23563	4.384	ug/l	94
48) t-1,3-Dichloropropene	8.982	75	17651	4.336	ug/l	96
49) cis-1,3-Dichloropropene	8.366	75	19620	4.488	ug/l	99
50) 1,1,2-Trichloroethane	9.153	97	14550	4.960	ug/l	98
51) Ethyl methacrylate	9.122	69	19676	4.553	ug/l	95
52) 1,3-Dichloropropane	9.311	76	23424	4.978	ug/l	98
53) Dibromochloromethane	9.518	129	12508	4.138	ug/l	98
54) 1,2-Dibromoethane	9.610	107	15273	4.798	ug/l	99
55) 2-Chloroethyl vinyl ether	8.244	63	49439	23.466	ug/l	98
56) Bromoform	10.799	173	9031	3.972	ug/l	95
58) 4-Methyl-2-Pentanone	8.573	43	87187	24.763	ug/l	97
59) 2-Hexanone	9.433	43	65253	24.405	ug/l	98
61) Tetrachloroethene	9.275	164	13153	5.139	ug/l	95
62) Toluene	8.720	91	67362	5.399	ug/l	99
64) Chlorobenzene	10.079	112	39607	5.089	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.165	131	12820	4.538	ug/l	98
66) Ethyl Benzene	10.195	91	69577	5.053	ug/l	98
67) m/p-Xylenes	10.299	106	54528	10.053	ug/l	98
68) o-Xylene	10.640	106	25128	4.784	ug/l	95
69) Styrene	10.658	104	41037	4.657	ug/l	99
70) Isopropylbenzene	10.963	105	68996	4.949	ug/l	97
71) 1,1,2,2-Tetrachloroethane	11.213	83	22537	4.905	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	18835m	4.669	ug/l	
73) Bromobenzene	11.201	156	17365	4.911	ug/l	91
74) n-propylbenzene	11.305	91	81558	4.897	ug/l	100
75) 2-Chlorotoluene	11.366	91	48598	4.984	ug/l	98
76) 1,3,5-Trimethylbenzene	11.451	105	57280	4.765	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	4455	3.487	ug/l	90
78) 4-Chlorotoluene	11.457	91	56497	4.940	ug/l	99
79) tert-butylbenzene	11.713	119	55235	4.668	ug/l	97
80) 1,2,4-Trimethylbenzene	11.750	105	57348	4.799	ug/l	100
81) sec-Butylbenzene	11.890	105	72987	4.797	ug/l	97
82) p-Isopropyltoluene	12.006	119	59771	4.679	ug/l	98
83) 1,3-Dichlorobenzene	11.969	146	33238	4.865	ug/l	100
84) 1,4-Dichlorobenzene	12.042	146	33745	4.874	ug/l	98
85) n-Butylbenzene	12.335	91	55083	4.609	ug/l	98
86) Hexachloroethane	12.536	117	8236	3.957	ug/l	97
87) 1,2-Dichlorobenzene	12.335	146	33584	4.989	ug/l	96
88) 1,2-Dibromo-3-Chloropr...	12.945	75	4008	4.380	ug/l	93
89) 1,2,4-Trichlorobenzene	13.585	180	21773	4.754	ug/l	99
90) Hexachlorobutadiene	13.725	225	9612	4.778	ug/l	96
91) Naphthalene	13.774	128	65261	4.699	ug/l	100
92) 1,2,3-Trichlorobenzene	13.963	180	20741	4.652	ug/l	99

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

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