

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX010825\
 Data File : VX044634.D
 Acq On : 09 Jan 2025 00:09
 Operator : JC/MD
 Sample : VSTDICC005
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDICC005

Quant Time: Jan 09 01:08:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X010825W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jan 09 01:07:24 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By : John Carlone 01/09/2025
 Supervised By : Semsettin Yesilyurt 01/09/2025

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

Internal Standards						
1) Bromochloromethane	4.891	128	30960	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	161861	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	146897	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	104476	38.741	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 129.133%#			
60) 4-Bromofluorobenzene	11.079	95	81705	31.776	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 105.933%			
63) Toluene-d8	8.647	98	250234	35.545	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 118.467%#			
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	12780	6.418	ug/l	96
3) Chloromethane	1.295	50	14195	5.240	ug/l	96
4) Vinyl Chloride	1.374	62	12569	4.947	ug/l	99
5) Bromomethane	1.599	94	6830	8.615	ug/l	94
6) Chloroethane	1.666	64	7335	8.554	ug/l	94
7) Trichlorofluoromethane	1.874	101	18894	7.075	ug/l	92
8) Diethyl Ether	2.136	74	8270	6.914	ug/l	84
9) 1,1,2-Trichlorotrifluo...	2.319	101	10668	5.103	ug/l	98
10) 1,1-Dichloroethene	2.313	96	10242	4.831	ug/l	96
11) Methyl Iodide	2.447	142	13516	5.395	ug/l	95
12) Methyl Acetate	2.703	43	15277	4.151	ug/l	96
13) Acrolein	2.233	56	14064	22.741	ug/l	98
14) Acrylonitrile	3.069	53	27797	19.750	ug/l	96
15) Acetone	2.380	58	7299	19.157	ug/l	98
16) Carbon Disulfide	2.508	76	18388	3.100	ug/l	97
17) Allyl chloride	2.660	41	16049	3.971	ug/l	98
18) Methylene Chloride	2.788	84	12974	5.258	ug/l	95
19) trans-1,2-Dichloroethene	3.087	96	10257	4.569	ug/l	96
20) Diisopropyl ether	3.757	45	36981	4.581	ug/l #	85
21) 1,1-Dichloroethane	3.605	63	20916	4.769	ug/l	98
22) cis-1,2-Dichloroethene	4.489	96	13043m	4.850	ug/l	
23) tert-Butyl Alcohol	2.995	59	12990m	21.884	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	36524	4.836	ug/l	98
25) Chloroform	5.093	83	23377	5.521	ug/l	99
26) Cyclohexane	5.465	56	16637	4.231	ug/l #	97
29) 1,1-Dichloropropene	5.690	75	13981	5.443	ug/l	98
30) 2-Butanone	4.562	43	35497	20.484	ug/l	93
31) 2,2-Dichloropropane	4.465	77	15539	4.947	ug/l	99
32) 1,1,1-Trichloroethane	5.379	97	18734	5.846	ug/l #	87
33) Carbon Tetrachloride	5.672	117	15158	5.842	ug/l	87
34) Benzene	6.031	78	45235	5.360	ug/l	96
35) Methacrylonitrile	4.922	41	8766	4.751	ug/l	86
36) 1,2-Dichloroethane	6.086	62	18902	6.709	ug/l #	94
37) Trichloroethene	7.129	130	10951	5.672	ug/l	98
38) Methylcyclohexane	7.373	83	16388	4.761	ug/l	97
39) 1,2-Dichloropropane	7.428	63	10924	5.257	ug/l #	89
40) Dibromomethane	7.580	93	8573	5.873	ug/l	97
41) Bromodichloromethane	7.818	83	14554	5.117	ug/l	99
42) Vinyl Acetate	3.721	43	139717	18.225	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.715	43	16434m	4.909	ug/l	
44) Isopropyl Acetate	6.342	43	24179	4.420	ug/l	100
45) 1,4-Dioxane	7.671	88	3726	74.450	ug/l #	84
46) Methyl methacrylate	7.696	41	10975	4.177	ug/l	93
47) n-amyl Acetate	10.848	43	17286	3.645	ug/l	99
48) t-1,3-Dichloropropene	8.982	75	13408	4.399	ug/l	93
49) cis-1,3-Dichloropropene	8.366	75	14801	4.432	ug/l	94
50) 1,1,2-Trichloroethane	9.153	97	10820	5.501	ug/l	97
51) Ethyl methacrylate	9.116	69	14432	4.067	ug/l	96
52) 1,3-Dichloropropane	9.305	76	18987	5.504	ug/l	99
53) Dibromochloromethane	9.519	129	9394	4.495	ug/l	99
54) 1,2-Dibromoethane	9.610	107	10769	5.279	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	36905	22.536	ug/l	97
56) Bromoform	10.799	173	5330	3.789	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	73739	22.194	ug/l	100
59) 2-Hexanone	9.433	43	51272	20.109	ug/l	99
61) Tetrachloroethene	9.269	164	9809	5.997	ug/l	96
62) Toluene	8.714	91	47624	5.497	ug/l	100
64) Chlorobenzene	10.080	112	29744	5.608	ug/l	98
65) 1,1,1,2-Tetrachloroethane	10.159	131	9367	5.189	ug/l	100
66) Ethyl Benzene	10.189	91	50259	5.360	ug/l	100
67) m/p-Xylenes	10.299	106	36118	10.287	ug/l	98
68) o-Xylene	10.640	106	18084	5.121	ug/l	100
69) Styrene	10.659	104	28990	4.948	ug/l	96
70) Isopropylbenzene	10.957	105	47468	5.372	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.213	83	15307	4.814	ug/l	97
72) 1,2,3-Trichloropropane	11.238	75	13717m	4.928	ug/l	
73) Bromobenzene	11.201	156	11383	5.513	ug/l	97
74) n-propylbenzene	11.305	91	57295	5.537	ug/l	98
75) 2-Chlorotoluene	11.360	91	39394	6.106	ug/l	100
76) 1,3,5-Trimethylbenzene	11.451	105	44536	6.129	ug/l	98
77) t-1,4-Dichloro-2-butene	11.018	75	2981	2.517	ug/l	72
78) 4-Chlorotoluene	11.451	91	40554	5.764	ug/l	94
79) tert-butylbenzene	11.713	119	43328	5.915	ug/l	93
80) 1,2,4-Trimethylbenzene	11.750	105	42320	5.736	ug/l	95
81) sec-Butylbenzene	11.890	105	51850	5.646	ug/l	99
82) p-Isopropyltoluene	12.006	119	42245	5.676	ug/l	96
83) 1,3-Dichlorobenzene	11.969	146	23587	6.298	ug/l	98
84) 1,4-Dichlorobenzene	12.043	146	23655	6.315	ug/l	97
85) n-Butylbenzene	12.335	91	30912	4.664	ug/l	96
86) Hexachloroethane	12.536	117	5728	3.908	ug/l	92
87) 1,2-Dichlorobenzene	12.335	146	24054	6.373	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.939	75	2407	3.385	ug/l	87
89) 1,2,4-Trichlorobenzene	13.591	180	11640	5.264	ug/l	98
90) Hexachlorobutadiene	13.725	225	5123	6.095	ug/l	98
91) Naphthalene	13.774	128	37823	4.521	ug/l	99
92) 1,2,3-Trichlorobenzene	13.963	180	12535	5.529	ug/l	99

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

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