

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX022425\
 Data File : VX045024.D
 Acq On : 24 Feb 2025 11:53
 Operator : JC/MD
 Sample : VX0224WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0224WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 02/25/2025
 Supervised By : Mahesh Dadoda 02/25/2025

Quant Time: Feb 25 00:29:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Feb 22 01:06:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.885	128	16604	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.751	114	88900	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	81244	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	49121	30.459	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 101.533%	
60) 4-Bromofluorobenzene	11.079	95	43806	28.847	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 96.167%	
63) Toluene-d8	8.641	98	136383	30.344	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 101.133%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.166	85	26324m	18.807	ug/l	
3) Chloromethane	1.300	50	30324	18.088	ug/l	96
4) Vinyl Chloride	1.374	62	29630	18.316	ug/l	98
5) Bromomethane	1.593	94	9983	17.729	ug/l	97
6) Chloroethane	1.660	64	16550m	18.889	ug/l	
7) Trichlorofluoromethane	1.861	101	40351	18.559	ug/l	97
8) Diethyl Ether	2.136	74	15553	18.906	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.313	101	24733	19.153	ug/l	97
10) 1,1-Dichloroethene	2.300	96	23576	18.692	ug/l	91
11) Methyl Iodide	2.441	142	20425	14.307	ug/l	95
12) Methyl Acetate	2.703	43	33297	22.733	ug/l	98
13) Acrolein	2.239	56	33436	113.888	ug/l	99
14) Acrylonitrile	3.062	53	74461	104.078	ug/l	99
15) Acetone	2.386	58	19870	101.267	ug/l	98
16) Carbon Disulfide	2.495	76	58738	16.418	ug/l	100
17) Allyl chloride	2.654	41	43864	18.593	ug/l	98
18) Methylene Chloride	2.782	84	27840	19.624	ug/l	99
19) trans-1,2-Dichloroethene	3.081	96	24028	18.829	ug/l	92
20) Diisopropyl ether	3.757	45	91339	20.148	ug/l	86
21) 1,1-Dichloroethane	3.593	63	48474	19.226	ug/l	99
22) cis-1,2-Dichloroethene	4.477	96	30206	19.753	ug/l	99
23) tert-Butyl Alcohol	3.020	59	25189m	100.852	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	84746	20.586	ug/l	100
25) Chloroform	5.080	83	48510	19.920	ug/l	100
26) Cyclohexane	5.458	56	45325	19.476	ug/l #	98
29) 1,1-Dichloropropene	5.678	75	31940	19.531	ug/l	100
30) 2-Butanone	4.562	43	101232	107.174	ug/l	99
31) 2,2-Dichloropropane	4.465	77	33816	18.287	ug/l	99
32) 1,1,1-Trichloroethane	5.367	97	38081	19.219	ug/l	99
33) Carbon Tetrachloride	5.666	117	31633	18.917	ug/l	97
34) Benzene	6.025	78	106479	20.763	ug/l	99
35) Methacrylonitrile	4.922	41	21426	21.198	ug/l	95
36) 1,2-Dichloroethane	6.080	62	36275	20.660	ug/l	100
37) Trichloroethene	7.117	130	23522	19.605	ug/l	95
38) Methylcyclohexane	7.373	83	43443	19.785	ug/l	97
39) 1,2-Dichloropropane	7.421	63	26718	20.956	ug/l	99
40) Dibromomethane	7.580	93	19319	21.115	ug/l	99
41) Bromodichloromethane	7.818	83	35985	19.789	ug/l	97
42) Vinyl Acetate	3.715	43	377761	103.061	ug/l	100

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Quant Time: Feb 25 00:29:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.708	43	40277	22.738	ug/l #	76
44) Isopropyl Acetate	6.336	43	62576	21.464	ug/l	98
45) 1,4-Dioxane	7.671	88	12259	404.492	ug/l #	87
46) Methyl methacrylate	7.690	41	29625	20.723	ug/l	98
47) n-amyl Acetate	10.841	43	50291	19.879	ug/l	99
48) t-1,3-Dichloropropene	8.976	75	33040	18.850	ug/l	99
49) cis-1,3-Dichloropropene	8.360	75	38852	19.581	ug/l	98
50) 1,1,2-Trichloroethane	9.147	97	25876	21.683	ug/l	94
51) Ethyl methacrylate	9.116	69	37844	20.163	ug/l	100
52) 1,3-Dichloropropane	9.305	76	44771	21.410	ug/l	99
53) Dibromochloromethane	9.519	129	26017	19.711	ug/l	97
54) 1,2-Dibromoethane	9.604	107	25014	20.641	ug/l	100
55) 2-Chloroethyl vinyl ether	8.238	63	91302	94.727	ug/l	100
56) Bromoform	10.799	173	15223	18.406	ug/l	99
58) 4-Methyl-2-Pentanone	8.574	43	201273	108.906	ug/l	99
59) 2-Hexanone	9.433	43	142172	106.428	ug/l	98
61) Tetrachloroethene	9.269	164	20061	20.052	ug/l	97
62) Toluene	8.714	91	109370	20.322	ug/l	99
64) Chlorobenzene	10.079	112	67909	20.363	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	21664	19.687	ug/l	99
66) Ethyl Benzene	10.189	91	116788	19.821	ug/l	98
67) m/p-Xylenes	10.299	106	88027	40.098	ug/l	100
68) o-Xylene	10.640	106	44294	20.564	ug/l	98
69) Styrene	10.652	104	71679	19.925	ug/l	99
70) Isopropylbenzene	10.957	105	110596	19.897	ug/l	100
71) 1,1,2,2-Tetrachloroethane	11.213	83	39649	21.692	ug/l	98
72) 1,2,3-Trichloropropane	11.238	75	30829m	20.506	ug/l	
73) Bromobenzene	11.195	156	25949	20.279	ug/l	98
74) n-propylbenzene	11.299	91	126198	19.078	ug/l	100
75) 2-Chlorotoluene	11.360	91	79307	19.832	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	90574	19.752	ug/l	99
77) t-1,4-Dichloro-2-butene	11.018	75	8645	17.091	ug/l	89
78) 4-Chlorotoluene	11.451	91	86944	19.504	ug/l	98
79) tert-butylbenzene	11.713	119	90634	19.616	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	89343	19.450	ug/l	98
81) sec-Butylbenzene	11.890	105	111197	19.176	ug/l	99
82) p-Isopropyltoluene	12.006	119	89216	18.988	ug/l	99
83) 1,3-Dichlorobenzene	11.969	146	45199	18.985	ug/l	97
84) 1,4-Dichlorobenzene	12.042	146	45120	19.221	ug/l	99
85) n-Butylbenzene	12.329	91	76977	17.941	ug/l	98
86) Hexachloroethane	12.536	117	14455	17.445	ug/l	98
87) 1,2-Dichlorobenzene	12.335	146	48551	20.783	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	12.945	75	6805	19.229	ug/l	96
89) 1,2,4-Trichlorobenzene	13.585	180	27303	19.284	ug/l	97
90) Hexachlorobutadiene	13.725	225	10979	19.015	ug/l	98
91) Naphthalene	13.774	128	103658	20.763	ug/l	100
92) 1,2,3-Trichlorobenzene	13.957	180	28733	19.712	ug/l	97

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

Manual Integrations

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