

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX013025\
 Data File : VX044771.D
 Acq On : 30 Jan 2025 10:21
 Operator : JC/MD
 Sample : VX0130WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0130WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/30/2025
 Supervised By : Semsettin Yesilyurt 01/31/2025

Quant Time: Jan 30 12:09:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011625W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jan 17 01:21:41 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	4.891	128	25350	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	141556	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.049	117	132262	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.946	65	67372	27.529	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	91.767%		
60) 4-Bromofluorobenzene	11.079	95	74422	28.970	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	96.567%		
63) Toluene-d8	8.647	98	208299	28.956	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	96.533%		
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.167	85	37286	16.543	ug/l	98
3) Chloromethane	1.307	50	45004	18.982	ug/l	100
4) Vinyl Chloride	1.374	62	41410	17.851	ug/l	98
5) Bromomethane	1.593	94	11074	19.752	ug/l	97
6) Chloroethane	1.666	64	19196	52.189	ug/l	95
7) Trichlorofluoromethane	1.874	101	54133	21.308	ug/l	98
8) Diethyl Ether	2.130	74	20117	20.526	ug/l	96
9) 1,1,2-Trichlorotrifluo...	2.319	101	36098	19.834	ug/l	97
10) 1,1-Dichloroethene	2.313	96	35600	19.013	ug/l	99
11) Methyl Iodide	2.447	142	47979	18.491	ug/l	96
12) Methyl Acetate	2.697	43	60095	21.984	ug/l	99
13) Acrolein	2.233	56	45356	150.033	ug/l	98
14) Acrylonitrile	3.063	53	107433	107.852	ug/l	99
15) Acetone	2.380	58	27986	104.703	ug/l	95
16) Carbon Disulfide	2.502	76	95567	18.365	ug/l	100
17) Allyl chloride	2.654	41	64361	19.060	ug/l	98
18) Methylene Chloride	2.782	84	39704	18.948	ug/l	97
19) trans-1,2-Dichloroethene	3.087	96	36011	19.341	ug/l	88
20) Diisopropyl ether	3.758	45	124642	20.336	ug/l	95
21) 1,1-Dichloroethane	3.605	63	68693	18.894	ug/l	99
22) cis-1,2-Dichloroethene	4.483	96	43587	18.914	ug/l	98
23) tert-Butyl Alcohol	2.977	59	46821m	97.182	ug/l	
24) Methyl tert-Butyl Ether	3.111	73	120275	18.539	ug/l	98
25) Chloroform	5.087	83	67225	18.608	ug/l	92
26) Cyclohexane	5.458	56	62482	20.448	ug/l #	97
29) 1,1-Dichloropropene	5.684	75	46248	18.783	ug/l	98
30) 2-Butanone	4.550	43	143258	105.918	ug/l	99
31) 2,2-Dichloropropane	4.465	77	58266	17.101	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	57162	17.518	ug/l	99
33) Carbon Tetrachloride	5.666	117	47217	17.154	ug/l	99
34) Benzene	6.032	78	152377	19.397	ug/l	99
35) Methacrylonitrile	4.916	41	30198	19.977	ug/l	96
36) 1,2-Dichloroethane	6.080	62	48140	17.140	ug/l	98
37) Trichloroethene	7.123	130	34962	18.434	ug/l	95
38) Methylcyclohexane	7.373	83	64376	19.243	ug/l	98
39) 1,2-Dichloropropane	7.422	63	37099	18.939	ug/l	96
40) Dibromomethane	7.580	93	26557	18.236	ug/l	100
41) Bromodichloromethane	7.818	83	52359	17.412	ug/l	99
42) Vinyl Acetate	3.715	43	520076	96.823	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX013025\
 Data File : VX044771.D
 Acq On : 30 Jan 2025 10:21
 Operator : JC/MD
 Sample : VX0130WBSD01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0130WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/30/2025
 Supervised By : Semsettin Yesilyurt 01/31/2025

Quant Time: Jan 30 12:09:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011625W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Jan 17 01:21:41 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	4.709	43	52682	19.856	ug/l	# 93
44) Isopropyl Acetate	6.336	43	93220	19.557	ug/l	100
45) 1,4-Dioxane	7.659	88	19709	434.238	ug/l	96
46) Methyl methacrylate	7.690	41	42177	18.077	ug/l	96
47) n-amyl Acetate	10.842	43	81371	20.342	ug/l	98
48) t-1,3-Dichloropropene	8.976	75	56055	17.661	ug/l	99
49) cis-1,3-Dichloropropene	8.360	75	62701	18.423	ug/l	96
50) 1,1,2-Trichloroethane	9.147	97	37380	19.930	ug/l	100
51) Ethyl methacrylate	9.116	69	62446	19.165	ug/l	97
52) 1,3-Dichloropropane	9.305	76	64164	19.780	ug/l	98
53) Dibromochloromethane	9.519	129	41220	18.392	ug/l	100
54) 1,2-Dibromoethane	9.604	107	38976	19.658	ug/l	98
55) 2-Chloroethyl vinyl ether	8.238	63	152336	96.358	ug/l	99
56) Bromoform	10.799	173	27467	18.482	ug/l	97
58) 4-Methyl-2-Pentanone	8.568	43	289527	103.852	ug/l	98
59) 2-Hexanone	9.427	43	209519	102.654	ug/l	99
61) Tetrachloroethene	9.269	164	28728	18.108	ug/l	95
62) Toluene	8.714	91	161738	18.571	ug/l	97
64) Chlorobenzene	10.073	112	100732	18.624	ug/l	99
65) 1,1,1,2-Tetrachloroethane	10.159	131	34248	17.627	ug/l	98
66) Ethyl Benzene	10.189	91	176723	18.594	ug/l	99
67) m/p-Xylenes	10.299	106	135074	38.663	ug/l	96
68) o-Xylene	10.640	106	67389	19.219	ug/l	97
69) Styrene	10.653	104	110448	19.185	ug/l	97
70) Isopropylbenzene	10.957	105	172248	19.541	ug/l	98
71) 1,1,2,2-Tetrachloroethane	11.207	83	58923	19.884	ug/l	99
72) 1,2,3-Trichloropropane	11.238	75	47716m	19.140	ug/l	
73) Bromobenzene	11.195	156	39168	19.074	ug/l	96
74) n-propylbenzene	11.299	91	199273	19.903	ug/l	99
75) 2-Chlorotoluene	11.360	91	120706	19.176	ug/l	99
76) 1,3,5-Trimethylbenzene	11.451	105	140553	19.634	ug/l	100
77) t-1,4-Dichloro-2-butene	11.018	75	20146	17.081	ug/l	99
78) 4-Chlorotoluene	11.451	91	132147	19.053	ug/l	96
79) tert-butylbenzene	11.713	119	150228	20.428	ug/l	99
80) 1,2,4-Trimethylbenzene	11.750	105	143875	19.920	ug/l	99
81) sec-Butylbenzene	11.890	105	183361	20.880	ug/l	99
82) p-Isopropyltoluene	12.006	119	149935	20.746	ug/l	99
83) 1,3-Dichlorobenzene	11.970	146	73399	20.124	ug/l	99
84) 1,4-Dichlorobenzene	12.037	146	72312	20.223	ug/l	99
85) n-Butylbenzene	12.329	91	130026	20.755	ug/l	100
86) Hexachloroethane	12.536	117	28642	18.015	ug/l	99
87) 1,2-Dichlorobenzene	12.335	146	74692	20.507	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	12.939	75	11704	16.398	ug/l	95
89) 1,2,4-Trichlorobenzene	13.585	180	42425	18.743	ug/l	99
90) Hexachlorobutadiene	13.725	225	17611	20.115	ug/l	99
91) Naphthalene	13.774	128	161802	19.107	ug/l	99
92) 1,2,3-Trichlorobenzene	13.957	180	44121	19.165	ug/l	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX013025\
Data File : VX044771.D
Acq On : 30 Jan 2025 10:21
Operator : JC/MD
Sample : VX0130WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0130WBSD01

Manual Integrations
APPROVED

Reviewed By : John Carlone 01/30/2025
Supervised By : Semsettin Yesilyurt 01/31/2025

Quant Time: Jan 30 12:09:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X011625W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jan 17 01:21:41 2025
Response via : Initial Calibration

