

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086383.D
 Acq On : 23 Apr 2025 15:36
 Operator : JC\MD
 Sample : VN0423WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0423WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/24/2025
 Supervised By : Mahesh Dadoda 04/25/2025

Quant Time: Apr 24 05:00:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 04:42:24 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	27716	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	168952	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	155573	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	83502	31.249	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	104.167%		
60) 4-Bromofluorobenzene	12.847	95	89869	29.391	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	97.967%		
63) Toluene-d8	10.565	98	256591	29.980	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.933%		
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	39742	20.770	ug/l	99
3) Chloromethane	2.359	50	55153	20.291	ug/l	99
4) Vinyl Chloride	2.512	62	52681	20.236	ug/l	98
5) Bromomethane	2.965	94	28265	20.796	ug/l	96
6) Chloroethane	3.124	64	35558	20.488	ug/l	98
7) Trichlorofluoromethane	3.500	101	61198	19.916	ug/l	98
8) Diethyl Ether	3.959	74	27532	21.226	ug/l	99
9) 1,1,2-Trichlorotrifluo...	4.371	101	37918	20.072	ug/l	98
10) 1,1-Dichloroethene	4.342	96	38966	20.152	ug/l	98
11) Methyl Iodide	4.589	142	45620	20.165	ug/l	98
12) Methyl Acetate	5.018	43	62472	22.795	ug/l #	89
13) Acrolein	4.177	56	11671	82.605	ug/l	94
14) Acrylonitrile	5.712	53	111767	109.576	ug/l	99
15) Acetone	4.424	58	28238	100.468	ug/l	92
16) Carbon Disulfide	4.712	76	102111	20.041	ug/l	99
17) Allyl chloride	5.018	41	63122	20.417	ug/l	98
18) Methylene Chloride	5.277	84	46311	21.032	ug/l	95
19) trans-1,2-Dichloroethene	5.789	96	42146	20.450	ug/l	93
20) Diisopropyl ether	6.671	45	149387	20.322	ug/l	97
21) 1,1-Dichloroethane	6.565	63	80712	20.058	ug/l	99
22) cis-1,2-Dichloroethene	7.488	96	52585	20.406	ug/l	97
23) tert-Butyl Alcohol	5.512	59	45713	115.691	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	150641	21.087	ug/l	100
25) Chloroform	7.965	83	84639	20.783	ug/l	99
26) Cyclohexane	8.253	56	71069	20.003	ug/l #	98
29) 1,1-Dichloropropene	8.371	75	58285	19.569	ug/l	100
30) 2-Butanone	7.477	43	152291	105.343	ug/l	100
31) 2,2-Dichloropropane	7.488	77	73884	19.297	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	69838	19.622	ug/l	100
33) Carbon Tetrachloride	8.353	117	56182	19.175	ug/l	94
34) Benzene	8.600	78	189121	19.963	ug/l	95
35) Methacrylonitrile	7.777	41	34299	20.799	ug/l	99
36) 1,2-Dichloroethane	8.665	62	62109	20.193	ug/l	100
37) Trichloroethene	9.347	130	45733	19.284	ug/l	96
38) Methylcyclohexane	9.600	83	67318	19.569	ug/l	99
39) 1,2-Dichloropropane	9.618	63	46619	19.920	ug/l	94
40) Dibromomethane	9.706	93	32067	20.489	ug/l	98
41) Bromodichloromethane	9.888	83	66446	20.062	ug/l	98
42) Vinyl Acetate	6.600	43	530966	106.025	ug/l	100

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042325\
 Data File : VN086383.D
 Acq On : 23 Apr 2025 15:36
 Operator : JC\MD
 Sample : VN0423WBSD01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0423WBSD01

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/24/2025
 Supervised By : Mahesh Dadoda 04/25/2025

Quant Time: Apr 24 05:00:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N042325W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Apr 24 04:42:24 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	58398m	20.412	ug/l	
44) Isopropyl Acetate	8.682	43	116469	21.450	ug/l	98
45) 1,4-Dioxane	9.694	88	19439	458.846	ug/l	96
46) Methyl methacrylate	9.677	41	50681	20.235	ug/l	97
47) n-amyl Acetate	12.488	43	91264	19.720	ug/l	100
48) t-1,3-Dichloropropene	10.835	75	73073	19.734	ug/l	99
49) cis-1,3-Dichloropropene	10.306	75	78554	20.117	ug/l	99
50) 1,1,2-Trichloroethane	11.012	97	44377	20.299	ug/l	98
51) Ethyl methacrylate	10.871	69	77237	20.286	ug/l	99
52) 1,3-Dichloropropane	11.159	76	78950	20.434	ug/l	99
53) Dibromochloromethane	11.353	129	48714	19.845	ug/l	99
54) 1,2-Dibromoethane	11.465	107	45924	20.661	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	171519	95.818	ug/l	100
56) Bromoform	12.576	173	31914	20.034	ug/l	99
58) 4-Methyl-2-Pentanone	10.441	43	321264	106.712	ug/l	99
59) 2-Hexanone	11.194	43	235961	106.358	ug/l	100
61) Tetrachloroethene	11.100	164	46411	19.559	ug/l	93
62) Toluene	10.624	91	207801	19.955	ug/l	98
64) Chlorobenzene	11.888	112	130041	20.041	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.953	131	43205	19.914	ug/l	99
66) Ethyl Benzene	11.959	91	228725	19.513	ug/l	98
67) m/p-Xylenes	12.065	106	172811	38.856	ug/l	97
68) o-Xylene	12.394	106	84784	19.470	ug/l	100
69) Styrene	12.406	104	144296	19.550	ug/l	99
70) Isopropylbenzene	12.694	105	216881	19.952	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	62855	21.960	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	60875m	24.395	ug/l	
73) Bromobenzene	12.976	156	50079	20.039	ug/l	99
74) n-propylbenzene	13.029	91	249334	19.303	ug/l	99
75) 2-Chlorotoluene	13.123	91	158594	19.668	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	173133	19.411	ug/l	100
77) t-1,4-Dichloro-2-butene	12.729	75	24797	19.581	ug/l	97
78) 4-Chlorotoluene	13.217	91	155927	19.340	ug/l	100
79) tert-butylbenzene	13.435	119	149427	19.562	ug/l	100
80) 1,2,4-Trimethylbenzene	13.476	105	174841	19.194	ug/l	97
81) sec-Butylbenzene	13.612	105	209589	19.222	ug/l	99
82) p-Isopropyltoluene	13.723	119	172579	18.915	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	90188	19.091	ug/l	97
84) 1,4-Dichlorobenzene	13.806	146	89803	19.240	ug/l	99
85) n-Butylbenzene	14.053	91	150899	18.535	ug/l	99
86) Hexachloroethane	14.329	117	27531	18.453	ug/l	99
87) 1,2-Dichlorobenzene	14.100	146	87275	19.416	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	11610	19.956	ug/l	98
89) 1,2,4-Trichlorobenzene	15.835	180	40145	19.595	ug/l	99
90) Hexachlorobutadiene	15.494	225	16304	19.757	ug/l	98
91) Naphthalene	15.635	128	148836	20.292	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	40145	19.595	ug/l	99

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

