

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN040425\
 Data File : VN086230.D
 Acq On : 04 Apr 2025 13:47
 Operator : JC\MD
 Sample : VSTDICV020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN040425

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/07/2025
 Supervised By : Mahesh Dadoda 04/07/2025

Quant Time: Apr 05 00:50:43 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N040425W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 05 00:04:36 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	28572	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	158635	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	150810	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	85112	30.513	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 101.700%	
60) 4-Bromofluorobenzene	12.847	95	89491	30.273	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 100.900%	
63) Toluene-d8	10.565	98	251828	30.163	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 100.533%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	52908	19.135	ug/l	98
3) Chloromethane	2.365	50	51081	18.059	ug/l	96
4) Vinyl Chloride	2.518	62	50952	18.714	ug/l	99
5) Bromomethane	2.965	94	24179	17.868	ug/l	94
6) Chloroethane	3.124	64	30520	19.106	ug/l	90
7) Trichlorofluoromethane	3.506	101	73557	19.888	ug/l	99
8) Diethyl Ether	3.959	74	23529	19.063	ug/l	98
9) 1,1,2-Trichlorotrifluo...	4.377	101	40243	19.841	ug/l	97
10) 1,1-Dichloroethene	4.341	96	38908	19.450	ug/l	88
11) Methyl Iodide	4.588	142	48451	19.328	ug/l	95
12) Methyl Acetate	5.018	43	43894	19.137	ug/l	95
13) Acrolein	4.171	56	35992	117.896	ug/l	97
14) Acrylonitrile	5.712	53	99002	97.653	ug/l	96
15) Acetone	4.430	58	26429	94.168	ug/l	96
16) Carbon Disulfide	4.712	76	115618	19.097	ug/l	96
17) Allyl chloride	5.024	41	50934	18.617	ug/l	93
18) Methylene Chloride	5.271	84	43816	19.403	ug/l	96
19) trans-1,2-Dichloroethene	5.788	96	40582	18.665	ug/l	93
20) Diisopropyl ether	6.665	45	114514	18.997	ug/l	97
21) 1,1-Dichloroethane	6.565	63	76451	19.268	ug/l	97
22) cis-1,2-Dichloroethene	7.482	96	47663	18.863	ug/l	95
23) tert-Butyl Alcohol	5.500	59	35563m	97.182	ug/l	
24) Methyl tert-Butyl Ether	5.794	73	129864	19.097	ug/l #	80
25) Chloroform	7.965	83	81684	19.469	ug/l	97
26) Cyclohexane	8.253	56	62498	19.636	ug/l #	97
29) 1,1-Dichloropropene	8.371	75	56546	19.254	ug/l	97
30) 2-Butanone	7.482	43	115161	92.387	ug/l	98
31) 2,2-Dichloropropane	7.488	77	71387	19.445	ug/l	99
32) 1,1,1-Trichloroethane	8.165	97	75473	19.209	ug/l	99
33) Carbon Tetrachloride	8.359	117	65581	19.358	ug/l	94
34) Benzene	8.606	78	181010	19.251	ug/l	98
35) Methacrylonitrile	7.771	41	25245	18.438	ug/l	93
36) 1,2-Dichloroethane	8.665	62	60556	19.285	ug/l #	86
37) Trichloroethene	9.347	130	44971	18.859	ug/l	93
38) Methylcyclohexane	9.600	83	59438	18.728	ug/l	98
39) 1,2-Dichloropropane	9.618	63	41789	18.751	ug/l	97
40) Dibromomethane	9.706	93	30265	19.036	ug/l	97
41) Bromodichloromethane	9.882	83	63335	19.137	ug/l	95
42) Vinyl Acetate	6.600	43	409598	92.291	ug/l	99

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	45104m	17.665	ug/l	
44) Isopropyl Acetate	8.682	43	83141	19.126	ug/l	97
45) 1,4-Dioxane	9.688	88	16353	372.714	ug/l	94
46) Methyl methacrylate	9.676	41	36194	18.649	ug/l	93
47) n-amyl Acetate	12.494	43	62323	17.778	ug/l	99
48) t-1,3-Dichloropropene	10.835	75	66023	18.923	ug/l	90
49) cis-1,3-Dichloropropene	10.312	75	69734	19.039	ug/l	94
50) 1,1,2-Trichloroethane	11.012	97	42368	19.459	ug/l	94
51) Ethyl methacrylate	10.870	69	59652	18.144	ug/l	97
52) 1,3-Dichloropropane	11.159	76	71645	19.103	ug/l	98
53) Dibromochloromethane	11.353	129	48062	18.719	ug/l	98
54) 1,2-Dibromoethane	11.465	107	41201	18.928	ug/l	100
55) 2-Chloroethyl vinyl ether	10.159	63	149445	153.678	ug/l	99
56) Bromoform	12.576	173	32544	18.561	ug/l	95
58) 4-Methyl-2-Pentanone	10.441	43	245556	94.551	ug/l	99
59) 2-Hexanone	11.194	43	177845	93.223	ug/l	100
61) Tetrachloroethene	11.100	164	49725	19.497	ug/l	90
62) Toluene	10.629	91	191782	19.311	ug/l	100
64) Chlorobenzene	11.888	112	120584	19.387	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.959	131	43343	18.924	ug/l	97
66) Ethyl Benzene	11.959	91	203870	19.083	ug/l	99
67) m/p-Xylenes	12.070	106	165741	38.714	ug/l	98
68) o-Xylene	12.394	106	78271	19.331	ug/l	100
69) Styrene	12.406	104	128567	18.926	ug/l	99
70) Isopropylbenzene	12.694	105	192580	19.049	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	52088	19.083	ug/l	99
72) 1,2,3-Trichloropropane	12.988	75	54943m	20.995	ug/l	
73) Bromobenzene	12.976	156	48323	18.803	ug/l	97
74) n-propylbenzene	13.035	91	225704	18.968	ug/l	99
75) 2-Chlorotoluene	13.123	91	146696	19.039	ug/l	99
76) 1,3,5-Trimethylbenzene	13.170	105	166902	19.084	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	20558	18.131	ug/l	90
78) 4-Chlorotoluene	13.217	91	147806	18.969	ug/l	99
79) tert-butylbenzene	13.435	119	134497	18.733	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	166192	18.645	ug/l	98
81) sec-Butylbenzene	13.611	105	186044	18.241	ug/l	98
82) p-Isopropyltoluene	13.723	119	158730	18.431	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	91681	18.965	ug/l	98
84) 1,4-Dichlorobenzene	13.811	146	89257	18.632	ug/l	99
85) n-Butylbenzene	14.053	91	127855	17.616	ug/l	99
86) Hexachloroethane	14.329	117	26005	18.121	ug/l	98
87) 1,2-Dichlorobenzene	14.106	146	89362	18.816	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	11569	18.118	ug/l	93
89) 1,2,4-Trichlorobenzene	15.835	180	41591	17.199	ug/l	97
90) Hexachlorobutadiene	15.494	225	22466	16.597	ug/l	99
91) Naphthalene	15.635	128	131834	16.866	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	41591	17.199	ug/l	97

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

