

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086242.D
 Acq On : 11 Apr 2025 11:04
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/14/2025
 Supervised By : Mahesh Dadoda 04/14/2025

Quant Time: Apr 12 00:17:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 00:09:06 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.812	128	20477	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	121329	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	110874	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	59014	29.547	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	98.500%	
60) 4-Bromofluorobenzene	12.847	95	66521	30.135	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	100.433%	
63) Toluene-d8	10.565	98	185448	29.627	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	98.767%	
Target Compounds					Qvalue	
2) Dichlorodifluoromethane	2.124	85	167899	102.336	ug/l	97
3) Chloromethane	2.359	50	220891	97.412	ug/l	99
4) Vinyl Chloride	2.518	62	212658	98.457	ug/l	97
5) Bromomethane	2.959	94	94323	87.548	ug/l	99
6) Chloroethane	3.118	64	128777	94.415	ug/l	98
7) Trichlorofluoromethane	3.500	101	227259	96.994	ug/l	100
8) Diethyl Ether	3.959	74	101866	94.275	ug/l	100
9) 1,1,2-Trichlorotrifluo...	4.371	101	139276	96.398	ug/l	99
10) 1,1-Dichloroethene	4.341	96	144087	92.407	ug/l	98
11) Methyl Iodide	4.589	142	168878	94.232	ug/l	98
12) Methyl Acetate	5.018	43	200798	91.194	ug/l	99
13) Acrolein	4.177	56	131999	527.390	ug/l	100
14) Acrylonitrile	5.712	53	430948	463.608	ug/l	99
15) Acetone	4.424	58	102413	434.159	ug/l	86
16) Carbon Disulfide	4.712	76	413127	92.399	ug/l	99
17) Allyl chloride	5.018	41	254150	93.519	ug/l	98
18) Methylene Chloride	5.277	84	164274	92.405	ug/l	94
19) trans-1,2-Dichloroethene	5.783	96	152296	108.281	ug/l	99
20) Diisopropyl ether	6.665	45	555310	95.034	ug/l	96
21) 1,1-Dichloroethane	6.565	63	298980	95.915	ug/l	98
22) cis-1,2-Dichloroethene	7.482	96	182539	93.299	ug/l	97
23) tert-Butyl Alcohol	5.512	59	171504	445.280	ug/l #	100
24) Methyl tert-Butyl Ether	5.788	73	526162	93.663	ug/l	98
25) Chloroform	7.965	83	281205	94.604	ug/l	96
26) Cyclohexane	8.253	56	277499	95.155	ug/l #	99
29) 1,1-Dichloropropene	8.371	75	213302	98.138	ug/l	99
30) 2-Butanone	7.477	43	562722	467.239	ug/l	100
31) 2,2-Dichloropropane	7.488	77	263451	98.472	ug/l	98
32) 1,1,1-Trichloroethane	8.165	97	237411	94.957	ug/l	100
33) Carbon Tetrachloride	8.359	117	195904	98.048	ug/l	99
34) Benzene	8.600	78	675144	97.638	ug/l	97
35) Methacrylonitrile	7.777	41	129803	95.604	ug/l	99
36) 1,2-Dichloroethane	8.665	62	210783	97.412	ug/l	99
37) Trichloroethene	9.347	130	163126	97.775	ug/l	91
38) Methylcyclohexane	9.594	83	265418	99.571	ug/l	100
39) 1,2-Dichloropropane	9.618	63	169660	98.606	ug/l	98
40) Dibromomethane	9.706	93	105464	94.904	ug/l	99
41) Bromodichloromethane	9.882	83	225206	94.332	ug/l	99
42) Vinyl Acetate	6.600	43	1951001	475.901	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
 Data File : VN086242.D
 Acq On : 11 Apr 2025 11:04
 Operator : JC\MD
 Sample : VSTDICC100
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDICC100

Quant Time: Apr 12 00:17:52 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 00:09:06 2025
 Response via : Initial Calibration

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/14/2025
 Supervised By : Mahesh Dadoda 04/14/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.559	43	222324	91.520	ug/l	99
44) Isopropyl Acetate	8.682	43	407532	90.431	ug/l	98
45) 1,4-Dioxane	9.694	88	65820	1836.730	ug/l #	92
46) Methyl methacrylate	9.676	41	189237	95.302	ug/l	99
47) n-amyl Acetate	12.488	43	338467	92.953	ug/l	99
48) t-1,3-Dichloropropene	10.829	75	263069	97.471	ug/l	100
49) cis-1,3-Dichloropropene	10.312	75	281650	98.600	ug/l	97
50) 1,1,2-Trichloroethane	11.012	97	147343	94.534	ug/l	98
51) Ethyl methacrylate	10.870	69	276983	95.629	ug/l	97
52) 1,3-Dichloropropane	11.159	76	268559	96.673	ug/l	99
53) Dibromochloromethane	11.359	129	164626	96.562	ug/l	100
54) 1,2-Dibromoethane	11.465	107	149844	95.239	ug/l	99
55) 2-Chloroethyl vinyl ether	10.159	63	109257	99.826	ug/l	99
56) Bromoform	12.576	173	105955	94.994	ug/l	98
58) 4-Methyl-2-Pentanone	10.441	43	1157830	460.173	ug/l	99
59) 2-Hexanone	11.194	43	858112	458.017	ug/l	100
61) Tetrachloroethene	11.100	164	159732	97.556	ug/l	96
62) Toluene	10.629	91	705070	94.810	ug/l	99
64) Chlorobenzene	11.888	112	427265	94.040	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.959	131	142064	94.745	ug/l	99
66) Ethyl Benzene	11.959	91	775657	94.050	ug/l	98
67) m/p-Xylenes	12.070	106	587623	191.616	ug/l	99
68) o-Xylene	12.394	106	287174	95.205	ug/l	98
69) Styrene	12.406	104	486004	95.537	ug/l	99
70) Isopropylbenzene	12.694	105	705950	94.920	ug/l	100
71) 1,1,2,2-Tetrachloroethane	12.935	83	184643	87.222	ug/l	100
72) 1,2,3-Trichloropropane	12.988	75	203289m	67.831	ug/l	
73) Bromobenzene	12.976	156	155884	94.613	ug/l	99
74) n-propylbenzene	13.035	91	854262	96.989	ug/l	100
75) 2-Chlorotoluene	13.123	91	518416	93.916	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	586325	95.970	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	95696	94.184	ug/l	92
78) 4-Chlorotoluene	13.217	91	524792	95.194	ug/l	99
79) tert-butylbenzene	13.435	119	492114	93.090	ug/l	99
80) 1,2,4-Trimethylbenzene	13.482	105	593988	95.880	ug/l	99
81) sec-Butylbenzene	13.611	105	711037	96.423	ug/l	99
82) p-Isopropyltoluene	13.723	119	599176	97.402	ug/l	99
83) 1,3-Dichlorobenzene	13.729	146	290118	94.739	ug/l	100
84) 1,4-Dichlorobenzene	13.806	146	290254	94.482	ug/l	100
85) n-Butylbenzene	14.053	91	550772	99.247	ug/l	100
86) Hexachloroethane	14.329	117	101143	97.469	ug/l	98
87) 1,2-Dichlorobenzene	14.100	146	281264	93.023	ug/l	100
88) 1,2-Dibromo-3-Chloropr...	14.717	75	42853	88.876	ug/l	98
89) 1,2,4-Trichlorobenzene	15.835	180	137279	93.313	ug/l	100
90) Hexachlorobutadiene	15.500	225	55837	87.904	ug/l	99
91) Naphthalene	15.635	128	516032	88.964	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	137279	93.313	ug/l	100

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041125\
Data File : VN086242.D
Acq On : 11 Apr 2025 11:04
Operator : JC\MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

Reviewed By : John Carlone 04/14/2025
Supervised By : Mahesh Dadoda 04/14/2025

Quant Time: Apr 12 00:17:52 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Apr 12 00:09:06 2025
Response via : Initial Calibration

