

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN010725\
 Data File : VN085399.D
 Acq On : 07 Jan 2025 15:58
 Operator : JC\MD
 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 01/08/2025
 Supervised By : Mahesh Dadoda 01/08/2025

Quant Time: Jan 08 05:18:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N122024W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Dec 21 02:03:07 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.806	128	28064	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	153797	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.859	117	144216	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.571	65	75078	30.411	ug/l	0.00
Spiked Amount 30.000	Range	91 - 110	Recovery	=	101.367%	
60) 4-Bromofluorobenzene	12.847	95	67321	28.818	ug/l	0.00
Spiked Amount 30.000	Range	63 - 112	Recovery	=	96.067%	
63) Toluene-d8	10.559	98	210074	29.831	ug/l	0.00
Spiked Amount 30.000	Range	91 - 112	Recovery	=	99.433%	
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.124	85	44943	19.153	ug/l	99
3) Chloromethane	2.359	50	43521	18.369	ug/l	100
4) Vinyl Chloride	2.512	62	43332	18.013	ug/l #	88
5) Bromomethane	2.965	94	23353	16.606	ug/l	97
6) Chloroethane	3.124	64	27048	17.811	ug/l	99
7) Trichlorofluoromethane	3.506	101	62371	18.872	ug/l	97
8) Diethyl Ether	3.959	74	19617	17.235	ug/l	99
9) 1,1,2-Trichlorotrifluoro...	4.377	101	36349	19.153	ug/l	97
10) 1,1-Dichloroethene	4.336	96	32106	18.519	ug/l	89
11) Methyl Iodide	4.589	142	35957	17.305	ug/l	97
12) Methyl Acetate	5.018	43	44895	17.340	ug/l	92
13) Acrolein	4.177	56	14683	63.526	ug/l	92
14) Acrylonitrile	5.712	53	74384	74.281	ug/l	92
15) Acetone	4.424	58	18594	73.609	ug/l	82
16) Carbon Disulfide	4.706	76	94502	17.932	ug/l	100
17) Allyl chloride	5.018	41	50310	17.939	ug/l	94
18) Methylene Chloride	5.277	84	37395	18.101	ug/l	92
19) trans-1,2-Dichloroethene	5.783	96	33945	18.825	ug/l	85
20) Diisopropyl ether	6.665	45	117439	18.271	ug/l	99
21) 1,1-Dichloroethane	6.559	63	70150	18.669	ug/l	97
22) cis-1,2-Dichloroethene	7.477	96	40379	18.805	ug/l	97
23) tert-Butyl Alcohol	5.512	59	19767m	59.896	ug/l	
24) Methyl tert-Butyl Ether	5.789	73	100327	17.630	ug/l	99
25) Chloroform	7.959	83	72438	19.018	ug/l	99
26) Cyclohexane	8.253	56	50530	17.637	ug/l #	95
29) 1,1-Dichloropropene	8.371	75	49135	18.401	ug/l	99
30) 2-Butanone	7.477	43	97333	69.055	ug/l	99
31) 2,2-Dichloropropane	7.489	77	62035	18.334	ug/l #	79
32) 1,1,1-Trichloroethane	8.159	97	61771	17.795	ug/l	100
33) Carbon Tetrachloride	8.353	117	54621	17.975	ug/l	96
34) Benzene	8.600	78	151907	17.997	ug/l	98
35) Methacrylonitrile	7.771	41	23927	15.335	ug/l	89
36) 1,2-Dichloroethane	8.665	62	54468	17.845	ug/l	100
37) Trichloroethene	9.347	130	33994	18.305	ug/l	94
38) Methylcyclohexane	9.594	83	49685	17.980	ug/l	94
39) 1,2-Dichloropropane	9.618	63	38536	17.945	ug/l	99
40) Dibromomethane	9.700	93	26089	17.425	ug/l	99
41) Bromodichloromethane	9.883	83	56722	18.128	ug/l	95
42) Vinyl Acetate	6.595	43	393318	79.053	ug/l	100

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	41478	14.230	ug/l	99
44) Isopropyl Acetate	8.683	43	74802	15.448	ug/l	96
45) 1,4-Dioxane	9.688	88	8815	234.051	ug/l	95
46) Methyl methacrylate	9.671	41	34628	15.406	ug/l	99
47) n-amyl Acetate	12.488	43	61334	14.869	ug/l	96
48) t-1,3-Dichloropropene	10.830	75	52364	16.943	ug/l	96
49) cis-1,3-Dichloropropene	10.306	75	57960	17.443	ug/l	99
50) 1,1,2-Trichloroethane	11.012	97	34493	17.615	ug/l	95
51) Ethyl methacrylate	10.871	69	46899	15.835	ug/l	91
52) 1,3-Dichloropropane	11.159	76	60535	17.710	ug/l	97
53) Dibromochloromethane	11.353	129	39540	17.233	ug/l	98
54) 1,2-Dibromoethane	11.465	107	32733	17.274	ug/l	97
55) 2-Chloroethyl vinyl ether	10.153	63	108256	70.962	ug/l	99
56) Bromoform	12.576	173	23043	15.395	ug/l	95
58) 4-Methyl-2-Pentanone	10.441	43	217868	74.520	ug/l	99
59) 2-Hexanone	11.188	43	149407	70.346	ug/l	98
61) Tetrachloroethene	11.100	164	29156	18.110	ug/l	93
62) Toluene	10.624	91	160463	18.111	ug/l	99
64) Chlorobenzene	11.888	112	97867	18.315	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.953	131	34593	17.851	ug/l	99
66) Ethyl Benzene	11.959	91	164453	17.640	ug/l	100
67) m/p-Xylenes	12.065	106	127159	36.357	ug/l	99
68) o-Xylene	12.394	106	58979	17.704	ug/l	100
69) Styrene	12.406	104	99568	17.685	ug/l	99
70) Isopropylbenzene	12.694	105	152079	18.180	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	48125	16.221	ug/l	96
72) 1,2,3-Trichloropropane	12.988	75	40775m	16.148	ug/l	
73) Bromobenzene	12.976	156	36385	17.606	ug/l	97
74) n-propylbenzene	13.029	91	184766	17.729	ug/l	99
75) 2-Chlorotoluene	13.118	91	112556	17.928	ug/l	99
76) 1,3,5-Trimethylbenzene	13.171	105	129412	18.130	ug/l	100
77) t-1,4-Dichloro-2-butene	12.735	75	10164	9.849	ug/l	92
78) 4-Chlorotoluene	13.218	91	113175	17.730	ug/l	99
79) tert-butylbenzene	13.435	119	104773	17.949	ug/l	98
80) 1,2,4-Trimethylbenzene	13.476	105	129649	18.248	ug/l	98
81) sec-Butylbenzene	13.612	105	151832	18.016	ug/l	99
82) p-Isopropyltoluene	13.723	119	124247	17.901	ug/l	98
83) 1,3-Dichlorobenzene	13.729	146	68632	17.807	ug/l	98
84) 1,4-Dichlorobenzene	13.806	146	66832	17.923	ug/l	97
85) n-Butylbenzene	14.053	91	108044	18.031	ug/l	100
86) Hexachloroethane	14.329	117	23790	15.966	ug/l	97
87) 1,2-Dichlorobenzene	14.100	146	65411	17.864	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	7835	14.466	ug/l	99
89) 1,2,4-Trichlorobenzene	15.835	180	29893	17.232	ug/l	99
90) Hexachlorobutadiene	15.494	225	14995	17.341	ug/l	93
91) Naphthalene	15.635	128	84650	15.187	ug/l	99
92) 1,2,3-Trichlorobenzene	15.835	180	29893	17.232	ug/l	99

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

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