

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN042125\
 Data File : VN086360.D
 Acq On : 21 Apr 2025 16:10
 Operator : JC\MD
 Sample : VSTDC0020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDC0020EC

Manual Integrations
 APPROVED

Reviewed By : John Carlone 04/22/2025
 Supervised By : Mahesh Dadoda 04/22/2025

Quant Time: Apr 22 01:51:13 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N041125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Apr 12 01:21:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	7.806	128	29446	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.094	114	183648	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	163822	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	88799	30.918	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.067%			
60) 4-Bromofluorobenzene	12.847	95	95061	29.145	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 97.167%			
63) Toluene-d8	10.565	98	271877	29.396	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.000%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.124	85	48831	20.697	ug/l	100
3) Chloromethane	2.359	50	62152	19.060	ug/l	99
4) Vinyl Chloride	2.518	62	61083	19.666	ug/l	95
5) Bromomethane	2.965	94	31926	20.607	ug/l	96
6) Chloroethane	3.124	64	40482	20.640	ug/l	97
7) Trichlorofluoromethane	3.500	101	72519	21.524	ug/l	96
8) Diethyl Ether	3.959	74	30147	19.402	ug/l	93
9) 1,1,2-Trichlorotrifluo...	4.371	101	43222	20.803	ug/l	97
10) 1,1-Dichloroethene	4.342	96	43616	19.452	ug/l	95
11) Methyl Iodide	4.589	142	49002	19.015	ug/l	96
12) Methyl Acetate	5.018	43	59294	18.726	ug/l	98
13) Acrolein	4.183	56	30536	84.842	ug/l	96
14) Acrylonitrile	5.712	53	109765	82.116	ug/l	97
15) Acetone	4.424	58	27858	82.195	ug/l	85
16) Carbon Disulfide	4.712	76	120448	18.734	ug/l	98
17) Allyl chloride	5.018	41	69973	17.905	ug/l	94
18) Methylene Chloride	5.271	84	49316	19.291	ug/l	93
19) trans-1,2-Dichloroethene	5.783	96	46641	19.748	ug/l	97
20) Diisopropyl ether	6.665	45	167888	19.983	ug/l	99
21) 1,1-Dichloroethane	6.559	63	91247	20.357	ug/l	98
22) cis-1,2-Dichloroethene	7.483	96	57401	20.402	ug/l	98
23) tert-Butyl Alcohol	5.506	59	41075	74.161	ug/l #	100
24) Methyl tert-Butyl Ether	5.794	73	163539	20.211	ug/l	100
25) Chloroform	7.959	83	92305	21.595	ug/l	99
26) Cyclohexane	8.253	56	79070	18.855	ug/l #	98
29) 1,1-Dichloropropene	8.365	75	66085	20.087	ug/l	98
30) 2-Butanone	7.477	43	150001	82.284	ug/l	99
31) 2,2-Dichloropropane	7.488	77	83197	20.545	ug/l	97
32) 1,1,1-Trichloroethane	8.165	97	79243	20.939	ug/l	99
33) Carbon Tetrachloride	8.359	117	64173	21.219	ug/l	98
34) Benzene	8.600	78	208000	19.873	ug/l	96
35) Methacrylonitrile	7.771	41	35438	17.244	ug/l	98
36) 1,2-Dichloroethane	8.665	62	68352	20.869	ug/l	96
37) Trichloroethene	9.347	130	50679	20.068	ug/l	98
38) Methylcyclohexane	9.594	83	77250	19.146	ug/l	98
39) 1,2-Dichloropropane	9.618	63	51318	19.705	ug/l	99
40) Dibromomethane	9.700	93	34390	20.445	ug/l	98
41) Bromodichloromethane	9.882	83	73858	20.439	ug/l	98
42) Vinyl Acetate	6.600	43	567195	91.405	ug/l	99

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 Sample : VSTDCCC020
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.553	43	61171	16.636	ug/l	98
44) Isopropyl Acetate	8.682	43	121521	17.815	ug/l	99
45) 1,4-Dioxane	9.688	88	17330	319.495	ug/l #	89
46) Methyl methacrylate	9.677	41	53637	17.846	ug/l	91
47) n-amyl Acetate	12.488	43	101045	18.683	ug/l	99
48) t-1,3-Dichloropropene	10.835	75	81283	19.897	ug/l	100
49) cis-1,3-Dichloropropene	10.306	75	85767	19.837	ug/l	94
50) 1,1,2-Trichloroethane	11.012	97	47403	20.093	ug/l	97
51) Ethyl methacrylate	10.871	69	82226	18.755	ug/l	97
52) 1,3-Dichloropropane	11.159	76	84665	20.135	ug/l	100
53) Dibromochloromethane	11.353	129	52195	20.226	ug/l	98
54) 1,2-Dibromoethane	11.465	107	48128	20.209	ug/l	100
55) 2-Chloroethyl vinyl ether	10.153	63	191077	115.340	ug/l	99
56) Bromoform	12.576	173	32976	19.532	ug/l #	97
58) 4-Methyl-2-Pentanone	10.441	43	322698	86.802	ug/l	100
59) 2-Hexanone	11.188	43	232809	84.100	ug/l	100
61) Tetrachloroethene	11.100	164	49436	20.434	ug/l	97
62) Toluene	10.624	91	225579	20.529	ug/l	99
64) Chlorobenzene	11.888	112	137946	20.549	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.953	131	46281	20.890	ug/l	98
66) Ethyl Benzene	11.959	91	249125	20.444	ug/l	99
67) m/p-Xylenes	12.065	106	184109	40.632	ug/l	99
68) o-Xylene	12.394	106	90663	20.342	ug/l	100
69) Styrene	12.406	104	152049	20.229	ug/l	99
70) Isopropylbenzene	12.688	105	228298	20.775	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.935	83	64003	20.462	ug/l	98
72) 1,2,3-Trichloropropane	12.988	75	61004m	18.737	ug/l	
73) Bromobenzene	12.976	156	51313	21.078	ug/l	92
74) n-propylbenzene	13.029	91	268911	20.724	ug/l	99
75) 2-Chlorotoluene	13.123	91	164848	20.212	ug/l	100
76) 1,3,5-Trimethylbenzene	13.170	105	185952	20.599	ug/l	98
77) t-1,4-Dichloro-2-butene	12.735	75	25918	17.264	ug/l	96
78) 4-Chlorotoluene	13.217	91	161949	19.882	ug/l	98
79) tert-butylbenzene	13.435	119	158157	20.248	ug/l	99
80) 1,2,4-Trimethylbenzene	13.476	105	186522	20.377	ug/l	98
81) sec-Butylbenzene	13.612	105	229744	21.086	ug/l	100
82) p-Isopropyltoluene	13.723	119	187345	20.612	ug/l	100
83) 1,3-Dichlorobenzene	13.729	146	93677	20.704	ug/l	99
84) 1,4-Dichlorobenzene	13.812	146	92259	20.325	ug/l	98
85) n-Butylbenzene	14.053	91	172501	21.038	ug/l	98
86) Hexachloroethane	14.329	117	31064	20.260	ug/l	98
87) 1,2-Dichlorobenzene	14.100	146	91617	20.507	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.717	75	12358	17.346	ug/l	98
89) 1,2,4-Trichlorobenzene	15.835	180	43340	19.938	ug/l	99
90) Hexachlorobutadiene	15.494	225	18147	19.335	ug/l	100
91) Naphthalene	15.635	128	151480	17.675	ug/l	100
92) 1,2,3-Trichlorobenzene	15.835	180	43340	19.938	ug/l	99

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

