

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071825\
 Data File : VN087355.D
 Acq On : 18 Jul 2025 10:21
 Operator : JC\MD
 Sample : VN0718WBS02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0718WBS02

Quant Time: Jul 18 23:16:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 25 10:49:56 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John
 Carlone
 07/21/2025

Supervised By :Mahesh
 Dadoda
 07/21/2025

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

Internal Standards						
1) Bromochloromethane	7.794	128	45417	30.000	ug/l	-0.03
28) 1,4-Difluorobenzene	9.083	114	246982	30.000	ug/l	-0.02
57) Chlorobenzene-d5	11.847	117	221231	30.000	ug/l	-0.02
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	113766	33.246	ug/l	-0.02
Spiked Amount 30.000	Range 91 - 110		Recovery = 110.833%#			
60) 4-Bromofluorobenzene	12.829	95	108182	31.689	ug/l	-0.02
Spiked Amount 30.000	Range 63 - 112		Recovery = 105.633%			
63) Toluene-d8	10.547	98	300395	30.241	ug/l	-0.02
Spiked Amount 30.000	Range 91 - 112		Recovery = 100.800%			
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.142	85	41580	15.209	ug/l	97
3) Chloromethane	2.383	50	49078	17.576	ug/l	97
4) Vinyl Chloride	2.536	62	54781	18.051	ug/l	91
5) Bromomethane	2.989	94	30916	19.195	ug/l	92
6) Chloroethane	3.136	64	33714	20.709	ug/l	94
7) Trichlorofluoromethane	3.512	101	76896	20.657	ug/l	93
8) Diethyl Ether	3.965	74	32186	17.598	ug/l	88
9) 1,1,2-Trichlorotrifluo...	4.359	101	41077	14.883	ug/l #	80
10) 1,1-Dichloroethene	4.330	96	43760	15.906	ug/l	92
11) Methyl Iodide	4.577	142	45676	18.532	ug/l	82
12) Methyl Acetate	5.018	43	84214	19.515	ug/l	97
13) Acrolein	4.177	56	37036	55.852	ug/l	98
14) Acrylonitrile	5.706	53	175660	87.267	ug/l	98
15) Acetone	4.418	58	42629	72.602	ug/l	83
16) Carbon Disulfide	4.700	76	118010	14.671	ug/l	96
17) Allyl chloride	5.012	41	84238	18.564	ug/l	95
18) Methylene Chloride	5.265	84	57436	18.021	ug/l	96
19) trans-1,2-Dichloroethene	5.771	96	50586	16.813	ug/l	91
20) Diisopropyl ether	6.665	45	196649	20.426	ug/l	93
21) 1,1-Dichloroethane	6.553	63	108439	18.846	ug/l	98
22) cis-1,2-Dichloroethene	7.477	96	63079	18.014	ug/l	96
23) tert-Butyl Alcohol	5.518	59	62936	83.138	ug/l #	100
24) Methyl tert-Butyl Ether	5.789	73	191718	19.869	ug/l	99
25) Chloroform	7.947	83	107954	19.583	ug/l	96
26) Cyclohexane	8.241	56	76002	15.890	ug/l #	96
29) 1,1-Dichloropropene	8.359	75	69401	18.028	ug/l	98
30) 2-Butanone	7.471	43	242994	93.576	ug/l	97
31) 2,2-Dichloropropane	7.477	77	89209	19.198	ug/l	100
32) 1,1,1-Trichloroethane	8.153	97	90867	20.205	ug/l	98
33) Carbon Tetrachloride	8.347	117	76895	20.317	ug/l	94
34) Benzene	8.588	78	226341	18.559	ug/l	98
35) Methacrylonitrile	7.759	41	53923	20.605	ug/l	98
36) 1,2-Dichloroethane	8.653	62	85431	21.681	ug/l	100
37) Trichloroethene	9.335	130	52000	18.486	ug/l	96
38) Methylcyclohexane	9.583	83	74394	16.843	ug/l	100
39) 1,2-Dichloropropane	9.606	63	59091	19.305	ug/l	94
40) Dibromomethane	9.694	93	42558	20.447	ug/l	97
41) Bromodichloromethane	9.871	83	87740	20.884	ug/l #	98
42) Vinyl Acetate	6.589	43	772358	91.447	ug/l	99

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071825\
 Data File : VN087355.D
 Acq On : 18 Jul 2025 10:21
 Operator : JC\MD
 Sample : VN0718WBS02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0718WBS02

Quant Time: Jul 18 23:16:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 25 10:49:56 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :John
 Carlone
 07/21/2025

Supervised By :Mahesh
 Dadoda
 07/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Ethyl Acetate	7.547	43	92432m	19.718	ug/l	
44) Isopropyl Acetate	8.677	43	156975	20.553	ug/l	99
45) 1,4-Dioxane	9.683	88	19642	380.180	ug/l	99
46) Methyl methacrylate	9.665	41	63419	17.862	ug/l	97
47) n-amyl Acetate	12.512	43	96167m	20.595	ug/l	
48) t-1,3-Dichloropropene	10.818	75	92274	19.702	ug/l	94
49) cis-1,3-Dichloropropene	10.294	75	98933	19.870	ug/l	92
50) 1,1,2-Trichloroethane	10.994	97	56918	19.251	ug/l	92
51) Ethyl methacrylate	10.859	69	88429	19.650	ug/l	85
52) 1,3-Dichloropropane	11.147	76	99605	19.623	ug/l	99
53) Dibromochloromethane	11.341	129	63884	20.584	ug/l	99
54) 1,2-Dibromoethane	11.447	107	56210	18.427	ug/l	95
55) 2-Chloroethyl vinyl ether	10.141	63	251326	97.433	ug/l	100
56) Bromoform	12.559	173	41775	19.580	ug/l #	96
58) 4-Methyl-2-Pentanone	10.430	43	483749	108.767	ug/l	96
59) 2-Hexanone	11.177	43	324430	112.967	ug/l	91
61) Tetrachloroethene	11.082	164	42826	19.548	ug/l	95
62) Toluene	10.612	91	234475	18.766	ug/l	98
64) Chlorobenzene	11.871	112	155289	19.484	ug/l	94
65) 1,1,1,2-Tetrachloroethane	11.941	131	54604	20.735	ug/l	98
66) Ethyl Benzene	11.941	91	255591	18.689	ug/l	97
67) m/p-Xylenes	12.053	106	202366	38.614	ug/l	99
68) o-Xylene	12.376	106	98777	19.756	ug/l	99
69) Styrene	12.394	104	164025	19.109	ug/l	97
70) Isopropylbenzene	12.676	105	251596	20.205	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.918	83	84169	18.779	ug/l	97
72) 1,2,3-Trichloropropane	12.971	75	74497m	19.274	ug/l	
73) Bromobenzene	12.959	156	61915	20.497	ug/l	92
74) n-propylbenzene	13.018	91	305361	20.073	ug/l	98
75) 2-Chlorotoluene	13.106	91	186953	20.341	ug/l	97
76) 1,3,5-Trimethylbenzene	13.153	105	208165	20.535	ug/l	100
77) t-1,4-Dichloro-2-butene	12.718	75	30392	17.727	ug/l	94
78) 4-Chlorotoluene	13.200	91	191687	20.364	ug/l	98
79) tert-butylbenzene	13.418	119	182382	21.403	ug/l	99
80) 1,2,4-Trimethylbenzene	13.459	105	208842	20.516	ug/l	100
81) sec-Butylbenzene	13.594	105	265685	21.448	ug/l	97
82) p-Isopropyltoluene	13.706	119	221441	21.481	ug/l	98
83) 1,3-Dichlorobenzene	13.712	146	118319	20.341	ug/l	99
84) 1,4-Dichlorobenzene	13.788	146	119403	20.396	ug/l	99
85) n-Butylbenzene	14.035	91	202524	21.533	ug/l	98
86) Hexachloroethane	14.312	117	41171	21.099	ug/l	96
87) 1,2-Dichlorobenzene	14.082	146	112749	20.558	ug/l	99
88) 1,2-Dibromo-3-Chloropr...	14.694	75	18696	18.524	ug/l	95
89) 1,2,4-Trichlorobenzene	15.812	180	68481	22.069	ug/l	99
90) Hexachlorobutadiene	15.476	225	28549	31.005	ug/l	97
91) Naphthalene	15.617	128	237010	19.408	ug/l	99
92) 1,2,3-Trichlorobenzene	15.812	180	68481	22.069	ug/l	99

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN071825\
 Data File : VN087355.D
 Acq On : 18 Jul 2025 10:21
 Operator : JC\MD
 Sample : VN0718WBS02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0718WBS02

Manual Integrations APPROVED

Reviewed By :John
 Carlone
 07/21/2025

Supervised By :Mahesh
 Dadoda
 07/21/2025

Quant Time: Jul 18 23:16:27 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 25 10:49:56 2025
 Response via : Initial Calibration

