

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN032425\
 Data File : VN086082.D
 Acq On : 24 Mar 2025 19:13
 Operator : JC\MD
 Sample : Q1619-14
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-5

Quant Time: Mar 25 01:30:29 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N031825W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 19 03:20:56 2025
 Response via : Initial Calibration

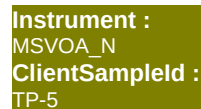
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

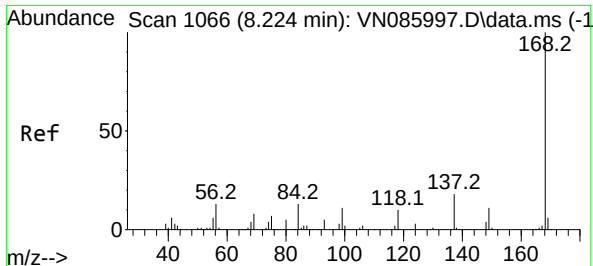
Internal Standards						
1) Pentafluorobenzene	8.224	168	293500	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	534279	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	495192	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	201948	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	203998	50.758	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.520%			
35) Dibromofluoromethane	8.165	113	177366	47.561	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 95.120%			
50) Toluene-d8	10.565	98	662262	48.932	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 97.860%			
62) 4-Bromofluorobenzene	12.847	95	217089	44.976	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 89.960%			
Target Compounds						
					Qvalue	
5) Bromomethane	2.977	94	547	0.230	ug/l	97
11) Tert butyl alcohol	5.518	59	1066	1.873	ug/l #	73
16) Acetone	4.430	43	54622	44.486	ug/l	94
17) Carbon Disulfide	4.706	76	4147	0.419	ug/l #	74
18) Methyl Acetate	5.030	43	3005	0.989	ug/l #	56
20) Methylene Chloride	5.283	84	17254	4.803	ug/l	96
25) 2-Butanone	7.489	43	8259	4.662	ug/l #	86
30) Chloroform	7.965	83	1383	0.213	ug/l #	82
31) Cyclohexane	8.224	56	5560	1.110	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	22268	4.535	ug/l #	50
37) Ethyl Acetate	7.559	43	4189	1.011	ug/l #	86
38) Carbon Tetrachloride	8.224	117	28910	4.478	ug/l #	17
42) 1,2-Dichloroethane	8.683	62	1090	0.203	ug/l #	74
43) Isopropyl Acetate	8.688	43	166715	18.572	ug/l #	84
45) 1,2-Dichloropropane	9.741	63	1881	0.536	ug/l #	44
48) Methyl methacrylate	9.665	41	4038	1.363	ug/l #	32
49) 1,4-Dioxane	9.741	88	157	2.242	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	13418	3.389	ug/l #	71
52) Toluene	10.624	92	2040	0.216	ug/l	93
54) cis-1,3-Dichloropropene	10.359	75	58246	9.864	ug/l #	64
56) Ethyl methacrylate	10.982	69	1951	0.616	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	7334	1.196	ug/l #	42
59) 2-Hexanone	11.200	43	75972	26.342	ug/l #	50
70) Styrene	12.412	104	3885	0.348	ug/l #	83
74) N-amyl acetate	12.482	43	1692	0.367	ug/l #	35
76) 1,2,3-Trichloropropane	12.847	75	107803	23.844	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	107803	63.039	ug/l #	16
92) 1,2-Dibromo-3-Chloropr...	14.700	75	403	0.433	ug/l #	2
95) Naphthalene	15.635	128	16098	1.605	ug/l	99

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

Instrument :
MSVOA_N
ClientSampleId :
TP-5

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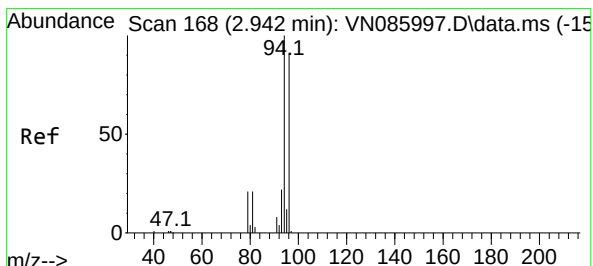
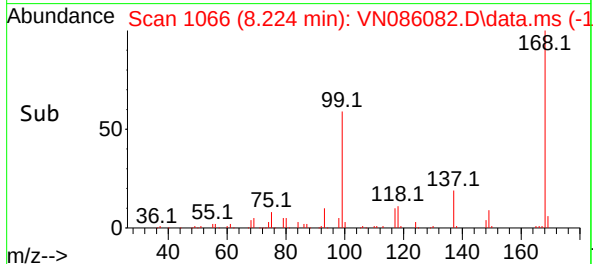
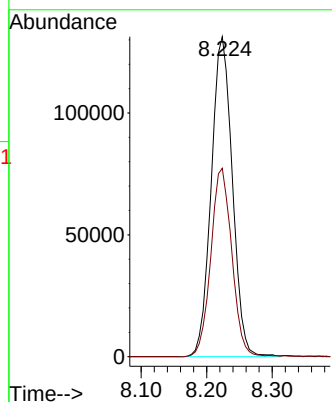
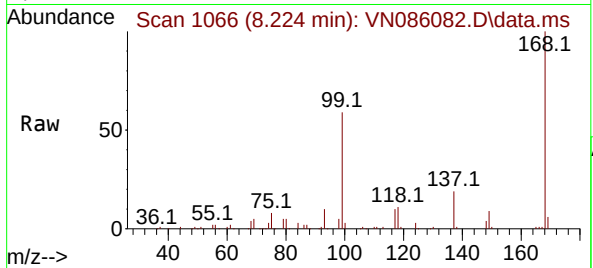




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086082.D
Acq: 24 Mar 2025 19:13

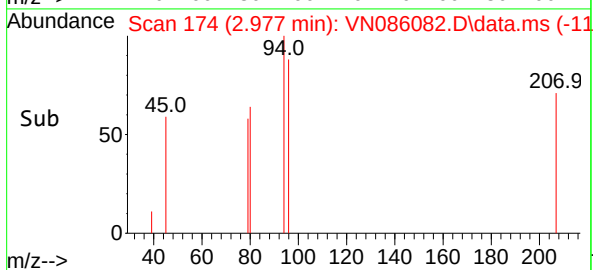
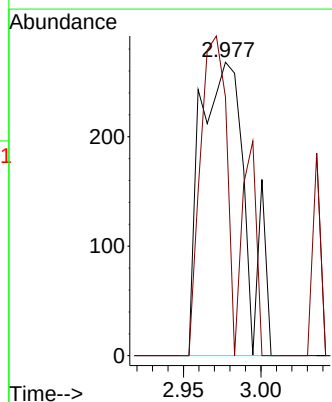
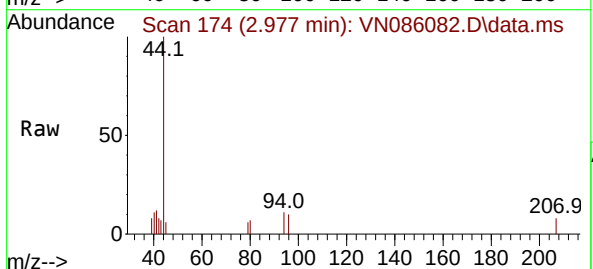
Instrument :
MSVOA_N
ClientSampleId :
TP-5

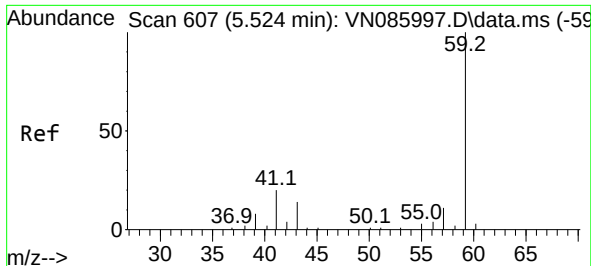
Tgt Ion:168 Resp: 293500
Ion Ratio Lower Upper
168 100
99 58.9 49.4 74.2



#5
Bromomethane
Concen: 0.230 ug/l
RT: 2.977 min Scan# 174
Delta R.T. 0.035 min
Lab File: VN086082.D
Acq: 24 Mar 2025 19:13

Tgt Ion: 94 Resp: 547
Ion Ratio Lower Upper
94 100
96 88.1 72.8 109.2

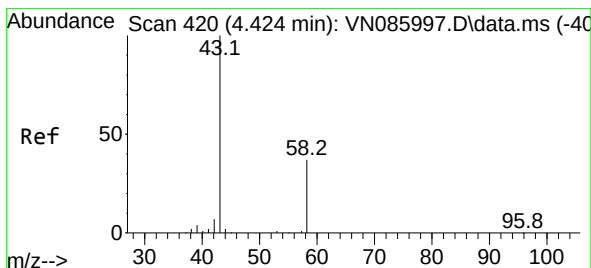
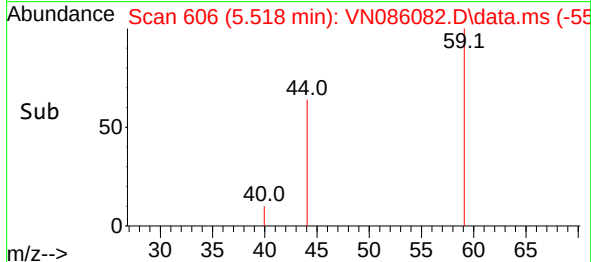
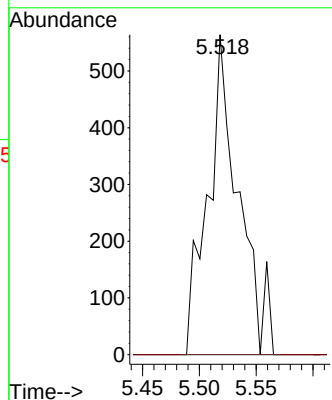
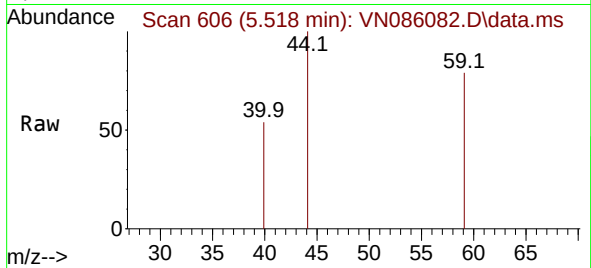




#11
Tert butyl alcohol
Concen: 1.873 ug/l
RT: 5.518 min Scan# 607
Delta R.T. -0.006 min
Lab File: VN086082.D
Acq: 24 Mar 2025 19:13

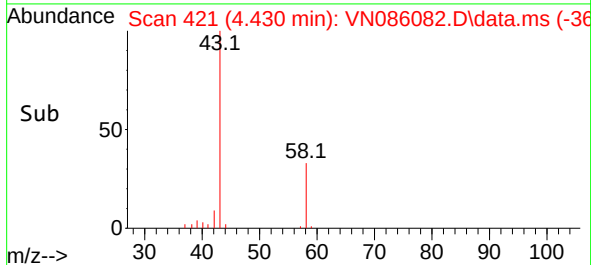
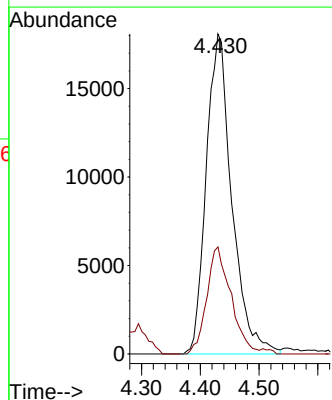
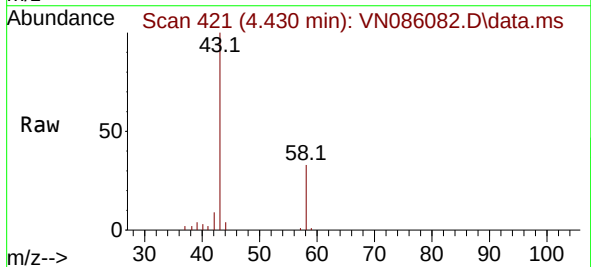
Instrument :
MSVOA_N
ClientSampleId :
TP-5

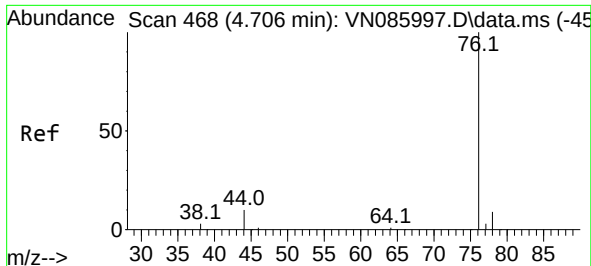
Tgt Ion: 59 Resp: 1066
Ion Ratio Lower Upper
59 100
57 0.0 7.9 11.9#



#16
Acetone
Concen: 44.486 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN086082.D
Acq: 24 Mar 2025 19:13

Tgt Ion: 43 Resp: 54622
Ion Ratio Lower Upper
43 100
58 33.4 29.4 44.2

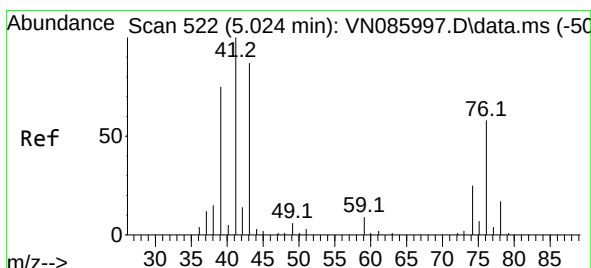
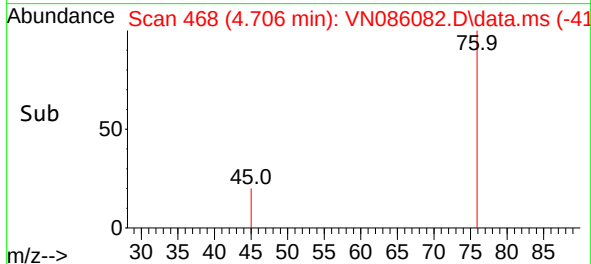
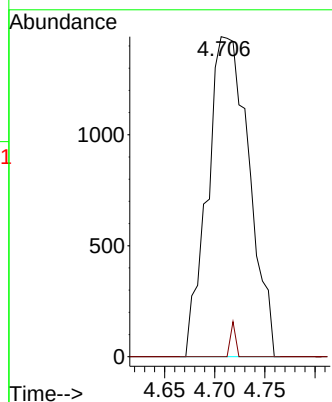
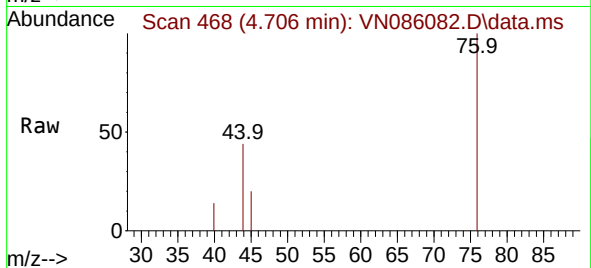




#17
Carbon Disulfide
Concen: 0.419 ug/l
RT: 4.706 min Scan# 4147
Delta R.T. -0.000 min
Lab File: VN086082.D
Acq: 24 Mar 2025 19:13

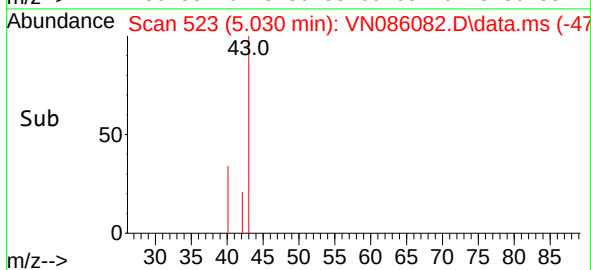
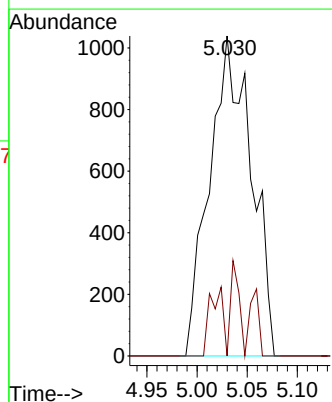
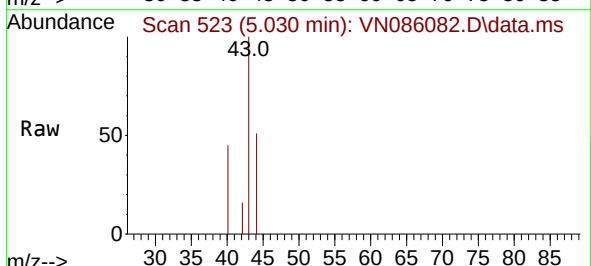
Instrument :
MSVOA_N
ClientSampleId :
TP-5

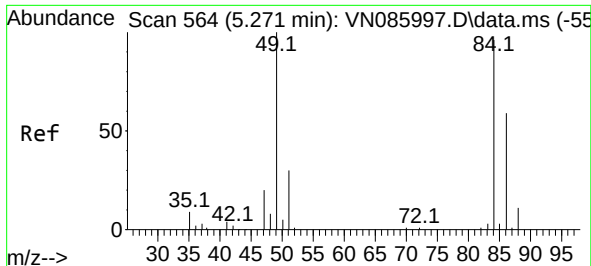
Tgt Ion: 76 Resp: 4147
Ion Ratio Lower Upper
76 100
78 0.0 7.4 11.2#



#18
Methyl Acetate
Concen: 0.989 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.006 min
Lab File: VN086082.D
Acq: 24 Mar 2025 19:13

Tgt Ion: 43 Resp: 3005
Ion Ratio Lower Upper
43 100
74 6.1 23.9 35.9#

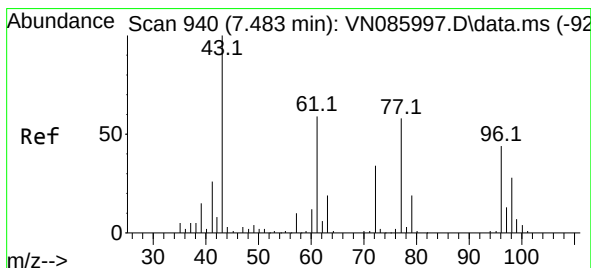
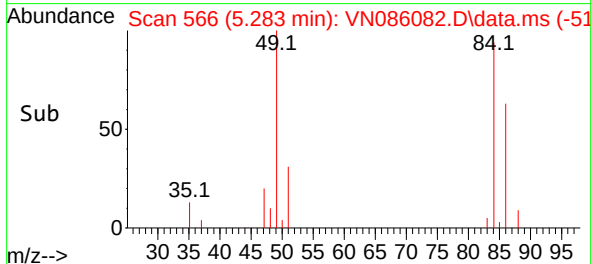
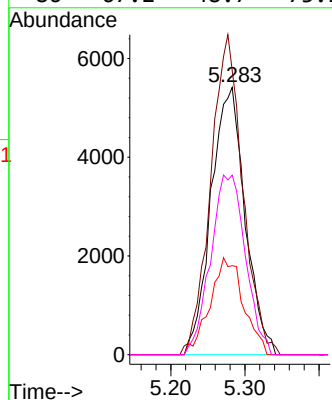
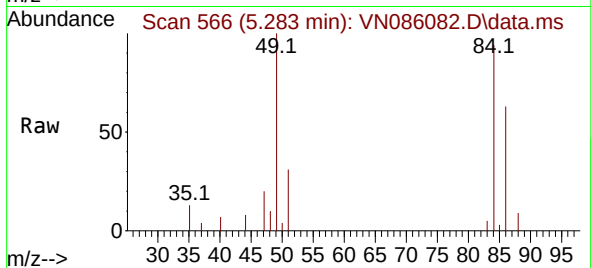




#20
Methylene Chloride
Concen: 4.803 ug/l
RT: 5.283 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN086082.D
Acq: 24 Mar 2025 19:13

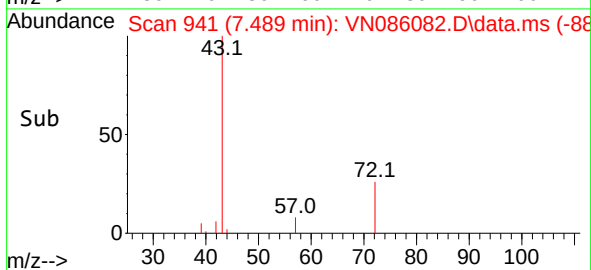
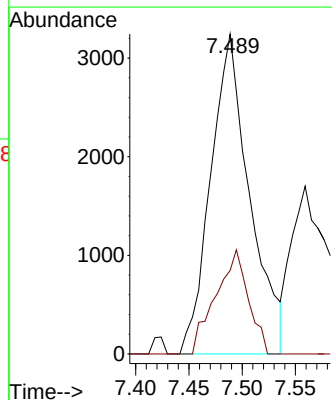
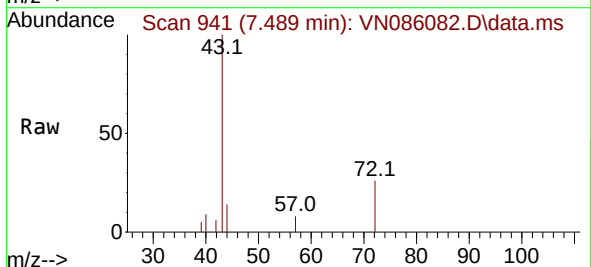
Instrument :
MSVOA_N
ClientSampleId :
TP-5

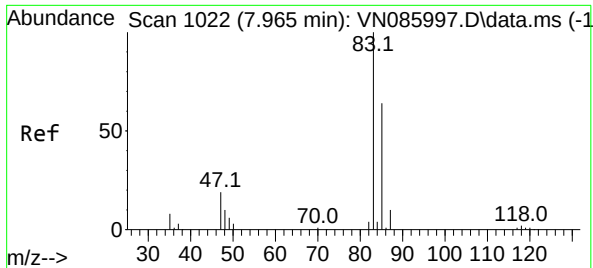
Tgt Ion: 84	Resp:	17254	
Ion	Ratio	Lower	Upper
84	100		
49	106.3	83.3	124.9
51	33.3	24.8	37.2
86	67.2	48.7	73.1



#25
2-Butanone
Concen: 4.662 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN086082.D
Acq: 24 Mar 2025 19:13

Tgt Ion: 43	Resp:	8259	
Ion	Ratio	Lower	Upper
43	100		
72	26.1	27.4	41.0#

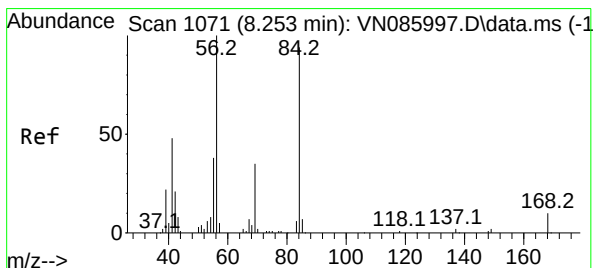
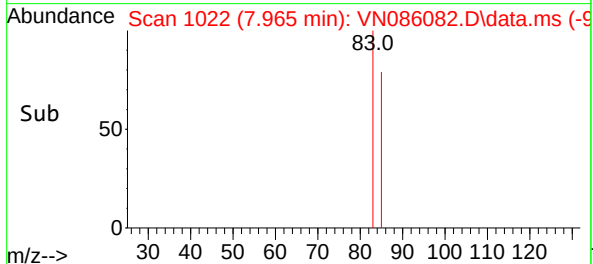
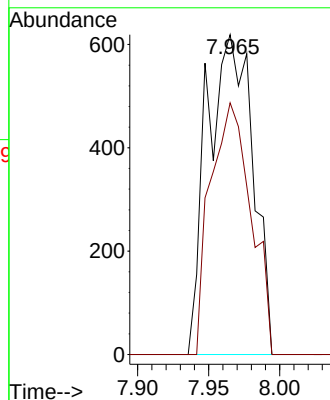
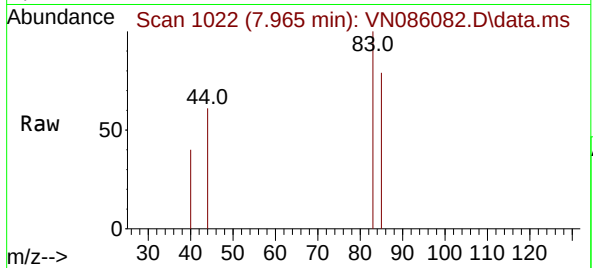




#30
Chloroform
Concen: 0.213 ug/l
RT: 7.965 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086082.D
Acq: 24 Mar 2025 19:13

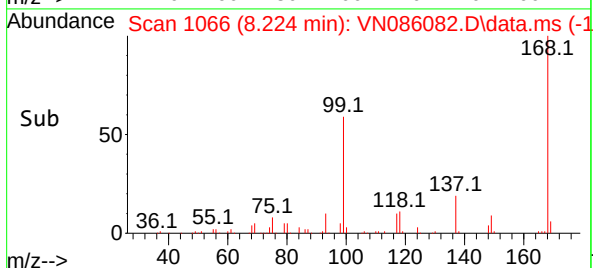
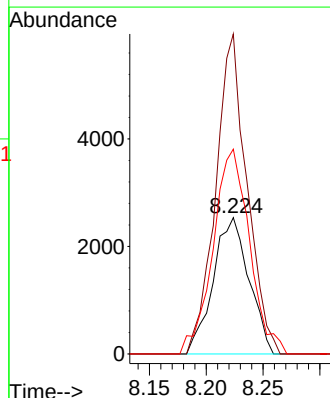
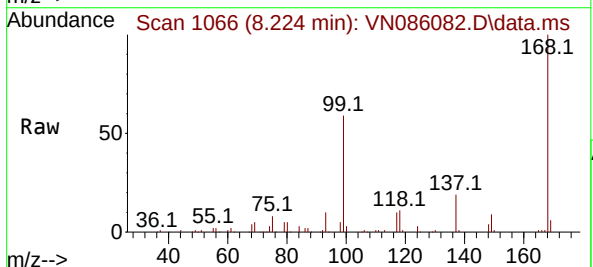
Instrument :
MSVOA_N
ClientSampleId :
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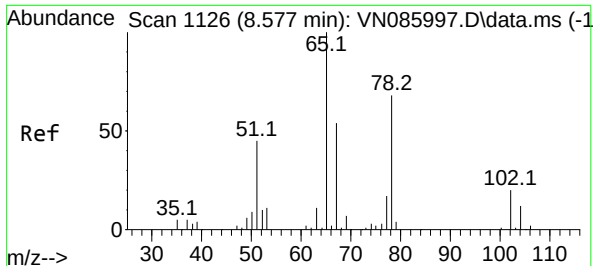
Tgt Ion: 83 Resp: 1383
Ion Ratio Lower Upper
83 100
85 78.7 51.5 77.3#



#31
Cyclohexane
Concen: 1.110 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN086082.D
Acq: 24 Mar 2025 19:13

Tgt Ion: 56 Resp: 5560
Ion Ratio Lower Upper
56 100
69 234.9 28.0 42.0#
84 150.3 75.0 112.6#





#33

1,2-Dichloroethane-d4

Concen: 50.758 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086082.D

Acq: 24 Mar 2025 19:13

Instrument :

MSVOA_N

ClientSampleId :

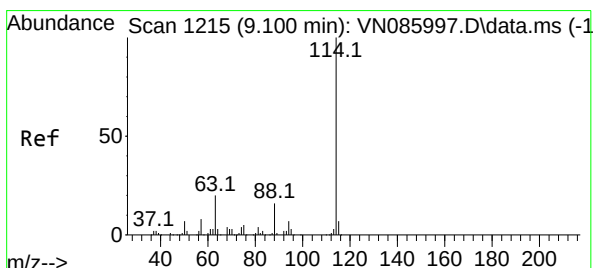
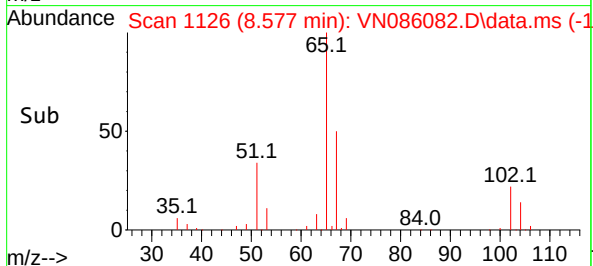
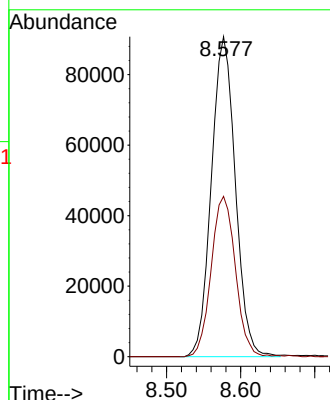
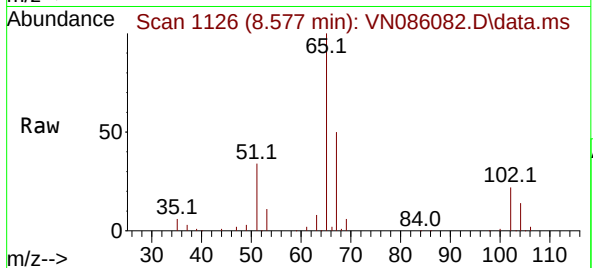
TP-5

Tgt Ion: 65 Resp: 203998

Ion Ratio Lower Upper

65 100

67 50.6 0.0 102.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086082.D

Acq: 24 Mar 2025 19:13

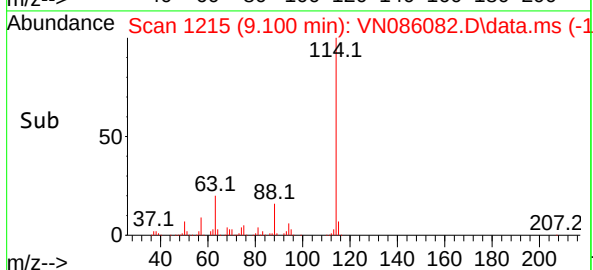
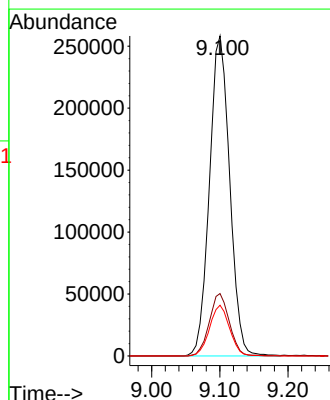
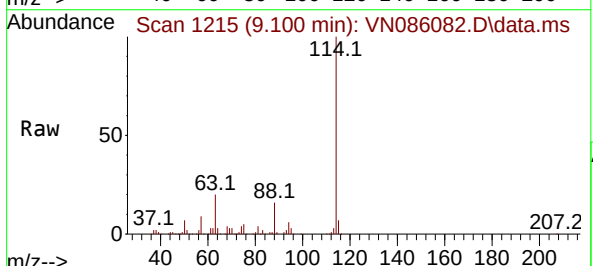
Tgt Ion: 114 Resp: 534279

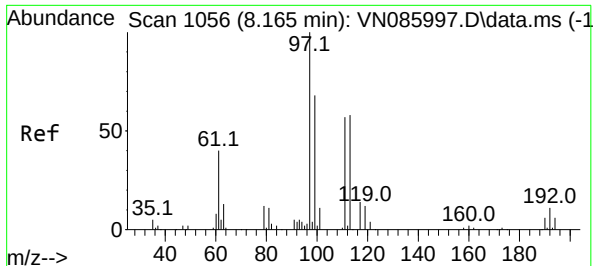
Ion Ratio Lower Upper

114 100

63 19.5 0.0 39.6

88 15.9 0.0 32.6





#35

Dibromofluoromethane

Concen: 47.561 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086082.D

Acq: 24 Mar 2025 19:13

Instrument :

MSVOA_N

ClientSampleId :

TP-5

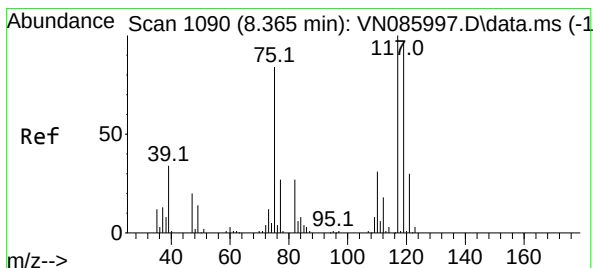
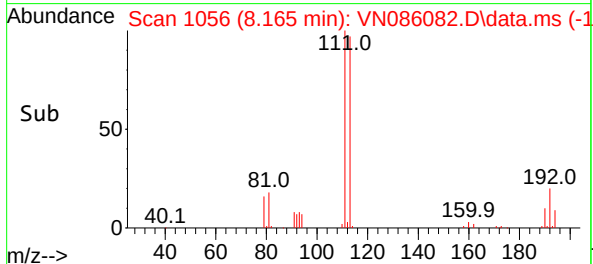
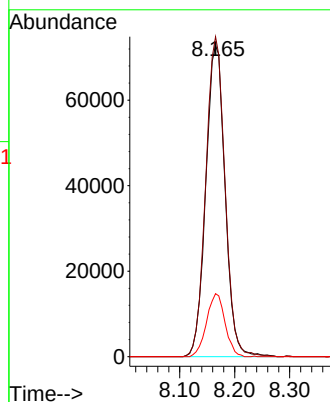
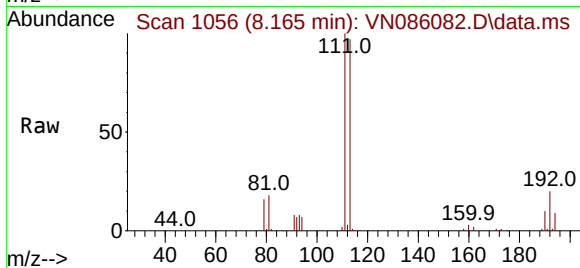
Tgt Ion:113 Resp: 177366

Ion Ratio Lower Upper

113 100

111 102.5 81.8 122.8

192 19.4 15.9 23.9



#36

1,1-Dichloropropene

Concen: 4.535 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086082.D

Acq: 24 Mar 2025 19:13

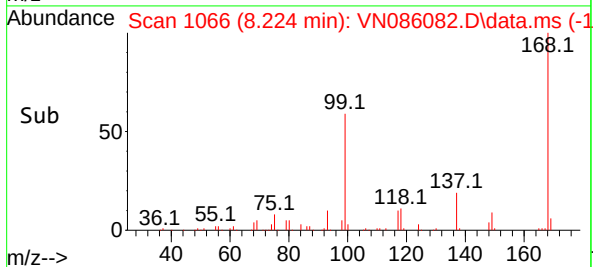
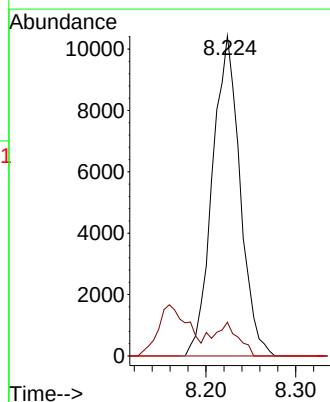
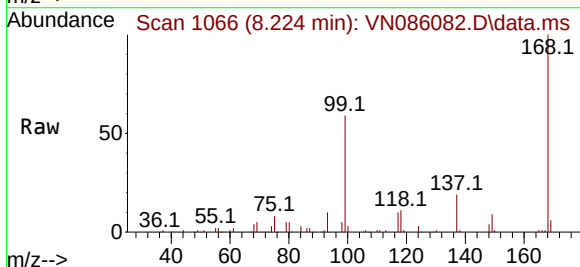
Tgt Ion: 75 Resp: 22268

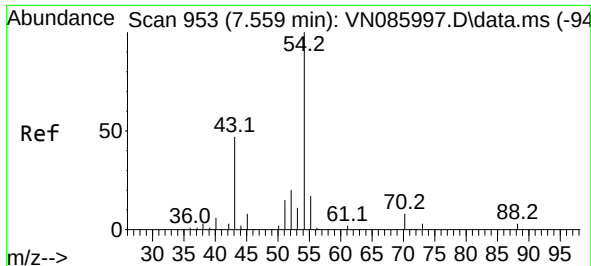
Ion Ratio Lower Upper

75 100

110 9.8 17.8 53.3#

77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 1.011 ug/l

RT: 7.559 min Scan# 91

Delta R.T. -0.000 min

Lab File: VN086082.D

Acq: 24 Mar 2025 19:13

Instrument :

MSVOA_N

ClientSampleId :

TP-5

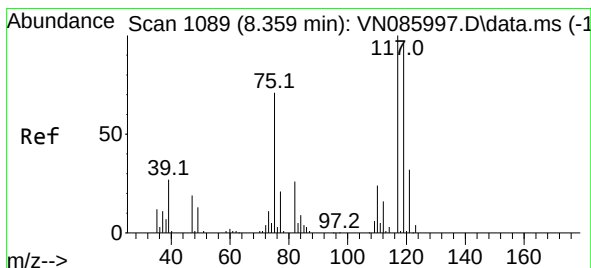
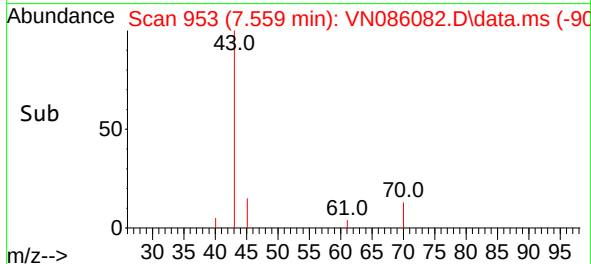
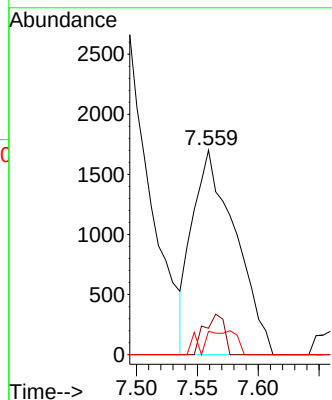
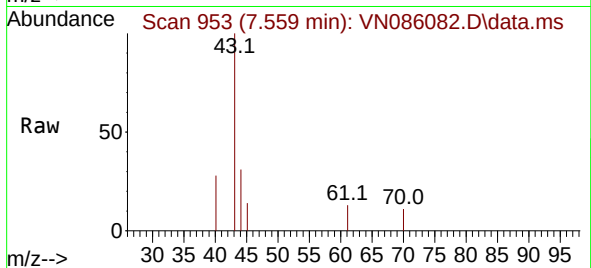
Tgt Ion: 43 Resp: 4189

Ion Ratio Lower Upper

43 100

61 9.2 13.0 19.4#

70 9.3 11.0 16.6#



#38

Carbon Tetrachloride

Concen: 4.478 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN086082.D

Acq: 24 Mar 2025 19:13

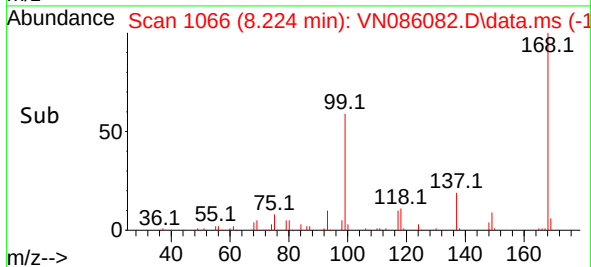
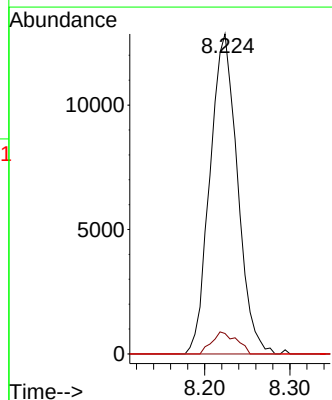
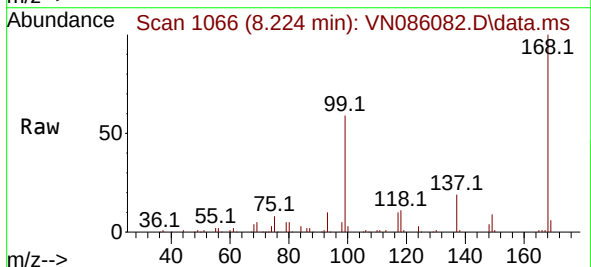
Tgt Ion: 117 Resp: 28910

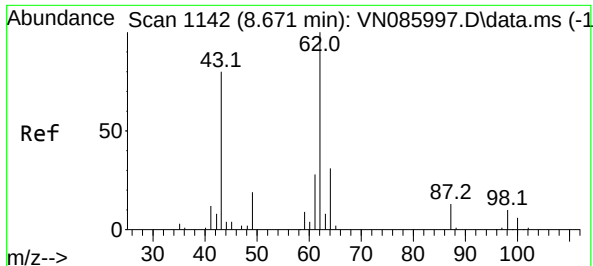
Ion Ratio Lower Upper

117 100

119 6.4 77.0 115.4#

121 0.0 25.6 38.4#





#42

1,2-Dichloroethane

Concen: 0.203 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. 0.012 min

Lab File: VN086082.D

Acq: 24 Mar 2025 19:13

Instrument :

MSVOA_N

ClientSampleId :

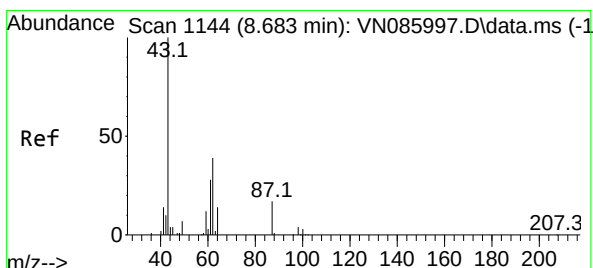
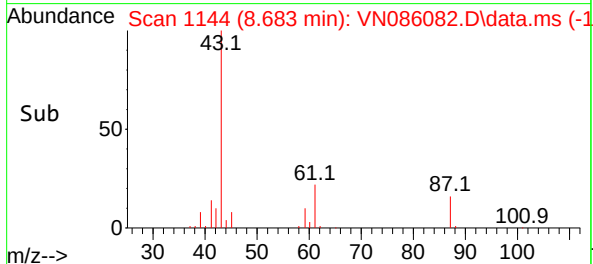
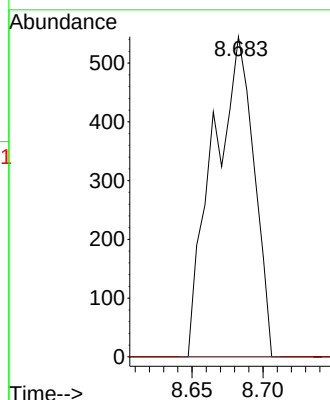
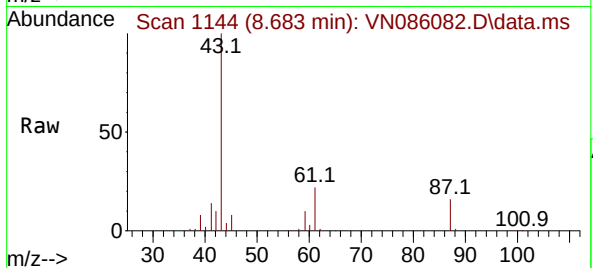
TP-5

Tgt Ion: 62 Resp: 1090

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.6



#43

Isopropyl Acetate

Concen: 18.572 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.006 min

Lab File: VN086082.D

Acq: 24 Mar 2025 19:13

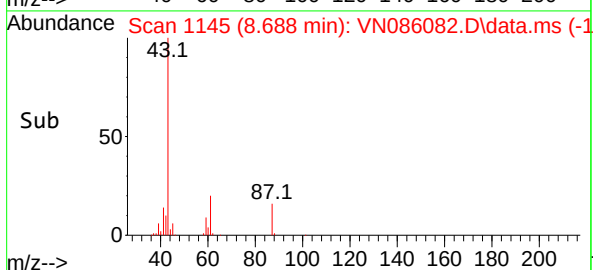
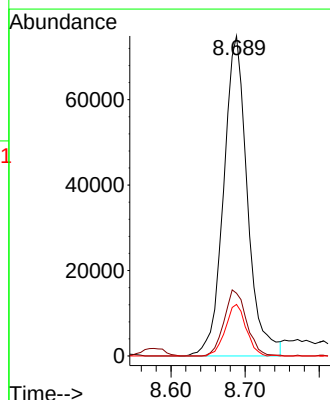
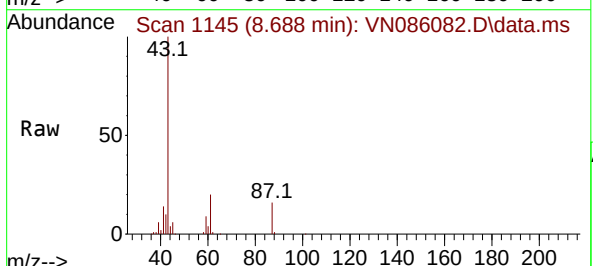
Tgt Ion: 43 Resp: 166715

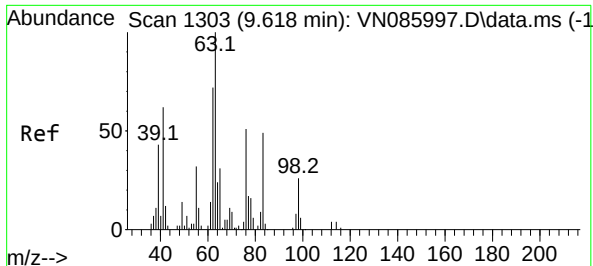
Ion Ratio Lower Upper

43 100

61 19.5 25.0 37.6#

87 14.1 13.0 19.4





#45

1,2-Dichloropropane

Concen: 0.536 ug/l

RT: 9.741 min Scan# 1

Delta R.T. 0.123 min

Lab File: VN086082.D

Acq: 24 Mar 2025 19:13

Instrument :

MSVOA_N

ClientSampleId :

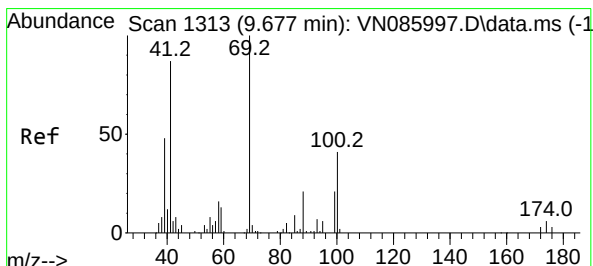
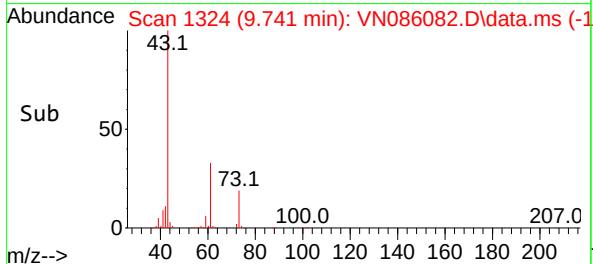
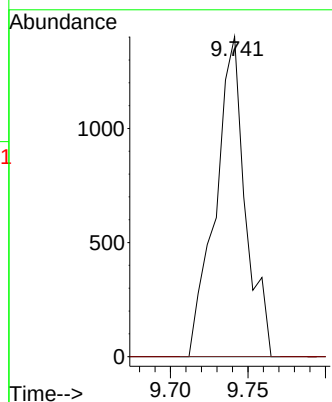
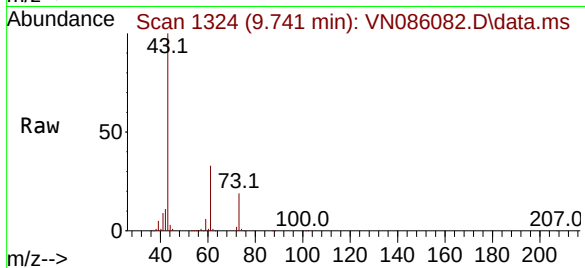
TP-5

Tgt Ion: 63 Resp: 1881

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#



#48

Methyl methacrylate

Concen: 1.363 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.012 min

Lab File: VN086082.D

Acq: 24 Mar 2025 19:13

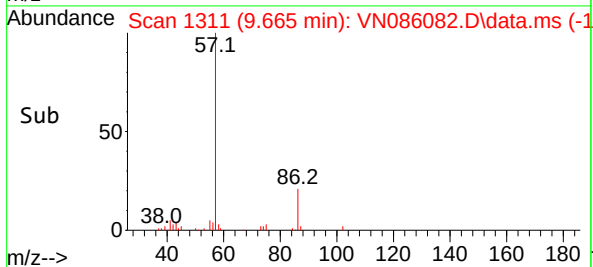
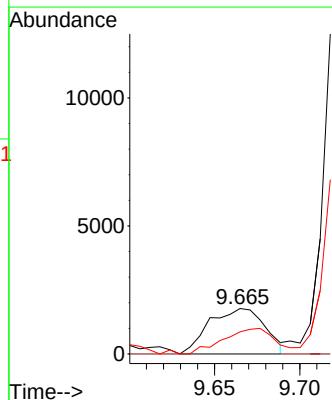
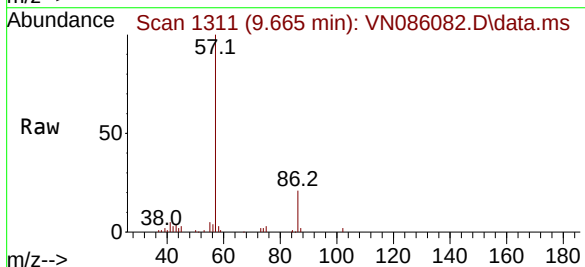
Tgt Ion: 41 Resp: 4038

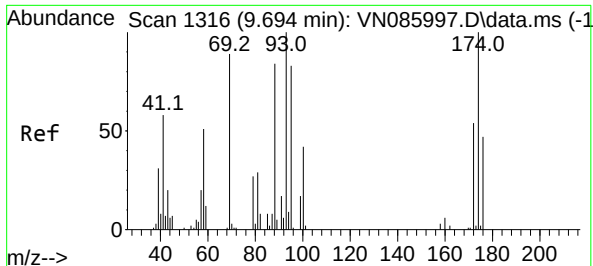
Ion Ratio Lower Upper

41 100

69 0.0 83.1 124.7#

39 51.6 45.6 68.4





#49

1,4-Dioxane

Concen: 2.242 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.047 min

Lab File: VN086082.D

Acq: 24 Mar 2025 19:13

Instrument :

MSVOA_N

ClientSampleId :

TP-5

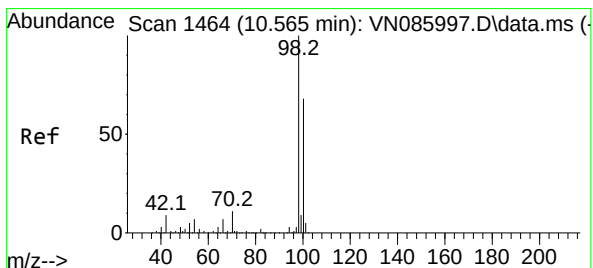
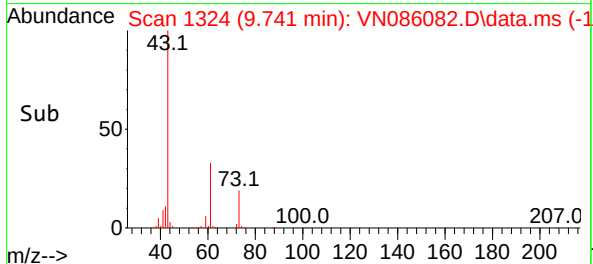
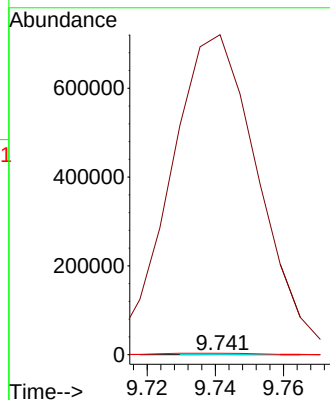
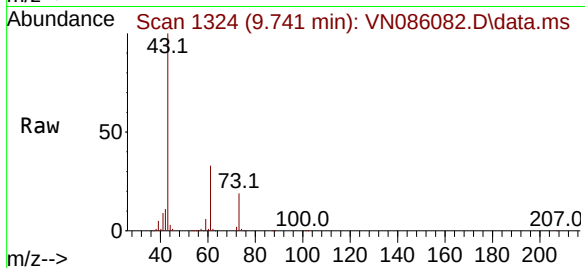
Tgt Ion: 88 Resp: 157

Ion Ratio Lower Upper

88 100

43 837083.4 21.7 32.5#

58 4464.3 50.4 75.6#



#50

Toluene-d8

Concen: 48.932 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086082.D

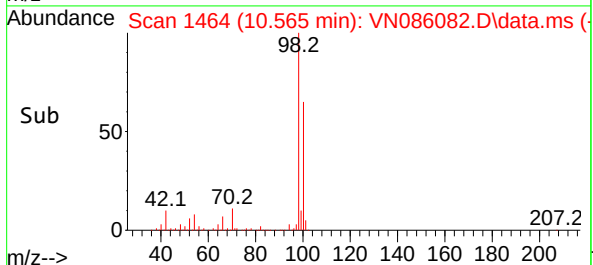
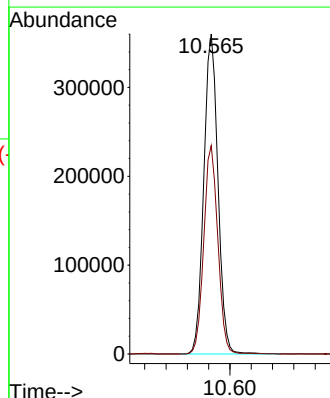
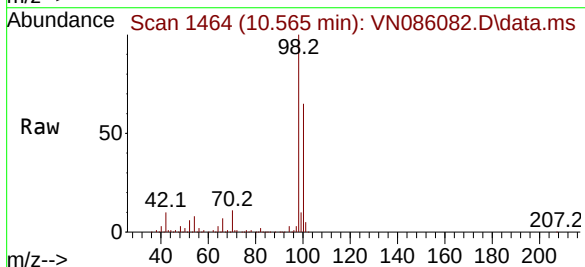
Acq: 24 Mar 2025 19:13

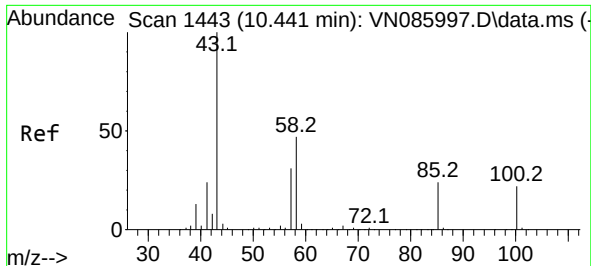
Tgt Ion: 98 Resp: 662262

Ion Ratio Lower Upper

98 100

100 64.8 53.1 79.7

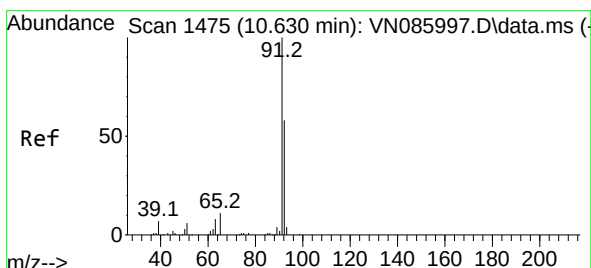
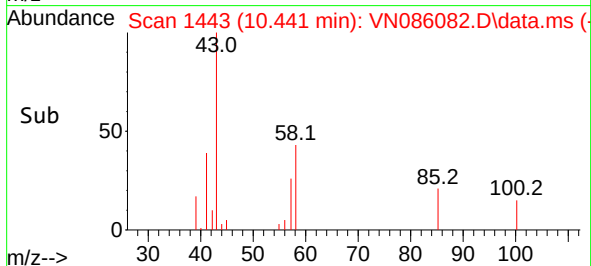
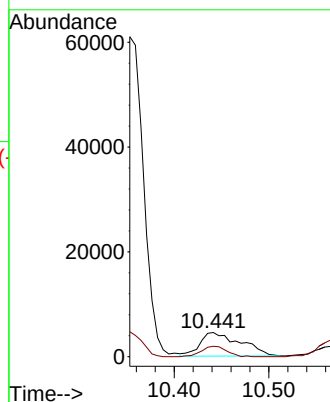
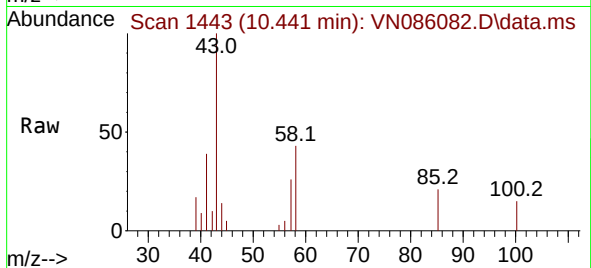




#51
4-Methyl-2-Pentanone
Concen: 3.389 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086082.D
Acq: 24 Mar 2025 19:13

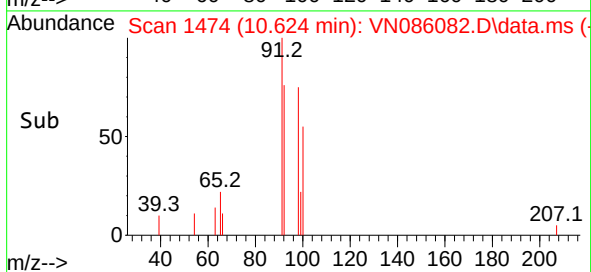
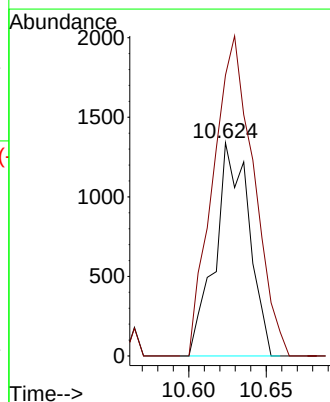
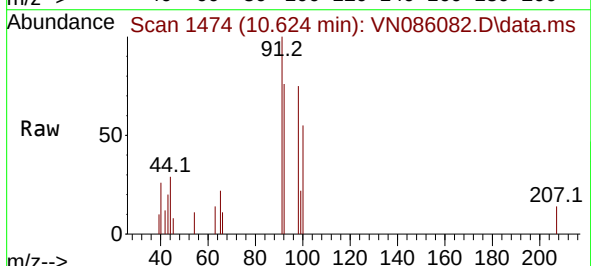
Instrument :
MSVOA_N
ClientSampleId :
TP-5

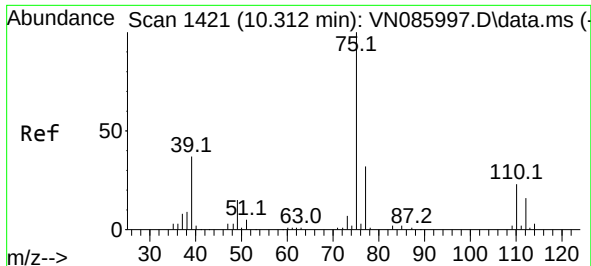
Tgt Ion: 43 Resp: 13418
Ion Ratio Lower Upper
43 100
58 27.6 37.4 56.0#



#52
Toluene
Concen: 0.216 ug/l
RT: 10.624 min Scan# 1474
Delta R.T. -0.006 min
Lab File: VN086082.D
Acq: 24 Mar 2025 19:13

Tgt Ion: 92 Resp: 2040
Ion Ratio Lower Upper
92 100
91 179.7 136.2 204.4

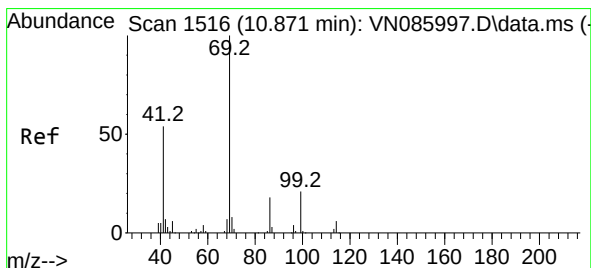
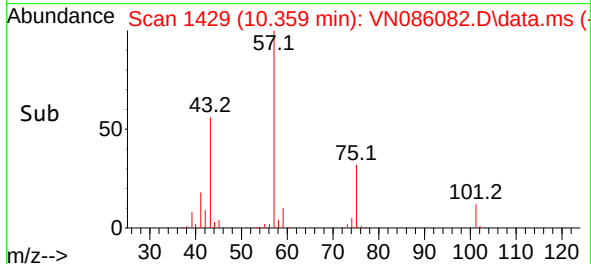
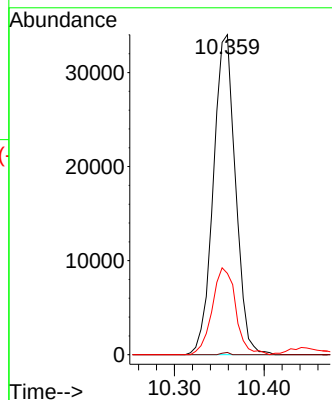
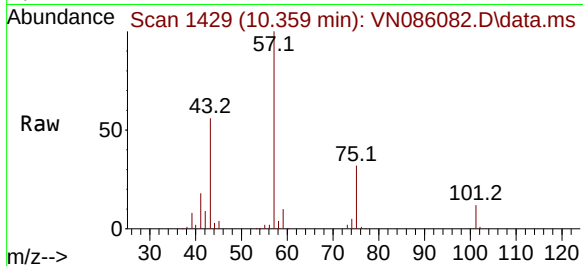




#54
cis-1,3-Dichloropropene
Concen: 9.864 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN086082.D
Acq: 24 Mar 2025 19:13

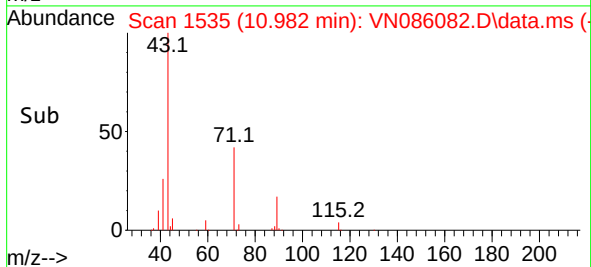
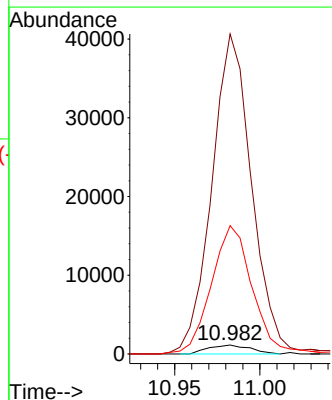
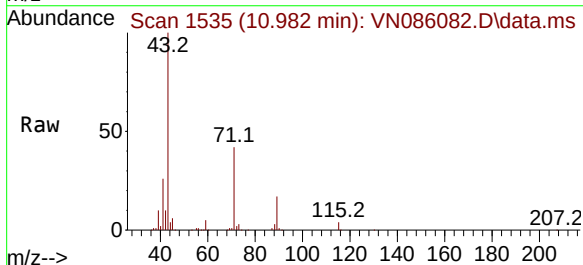
Instrument :
MSVOA_N
ClientSampleId :
TP-5

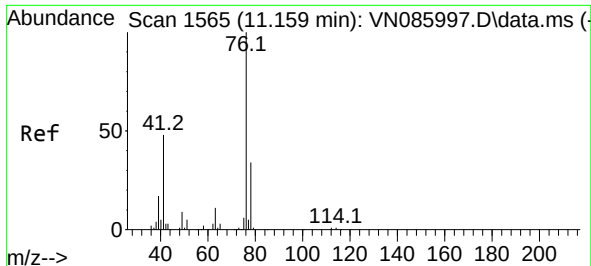
Tgt Ion: 75 Resp: 58246
Ion Ratio Lower Upper
75 100
77 0.7 25.3 37.9#
39 25.4 29.6 44.4#



#56
Ethyl methacrylate
Concen: 0.616 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.111 min
Lab File: VN086082.D
Acq: 24 Mar 2025 19:13

Tgt Ion: 69 Resp: 1951
Ion Ratio Lower Upper
69 100
41 3400.9 41.6 62.4#
39 1398.1 21.8 32.8#





#57

1,3-Dichloropropane

Concen: 1.196 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN086082.D

Acq: 24 Mar 2025 19:13

Instrument :

MSVOA_N

ClientSampleId :

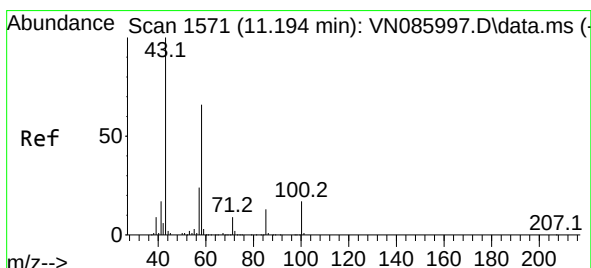
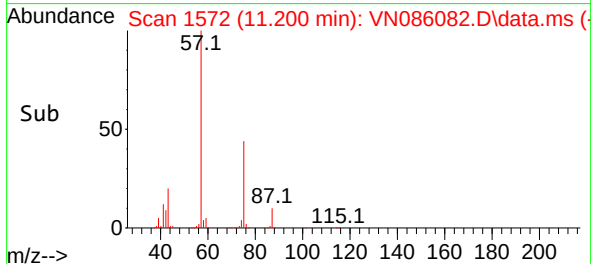
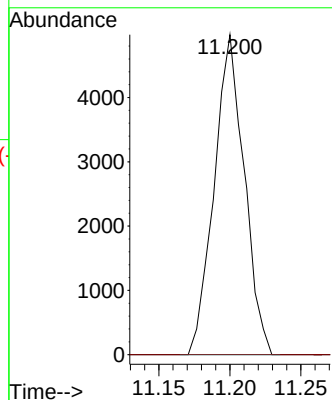
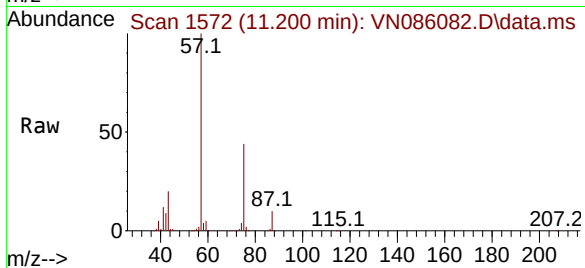
TP-5

Tgt Ion: 76 Resp: 7334

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 26.342 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086082.D

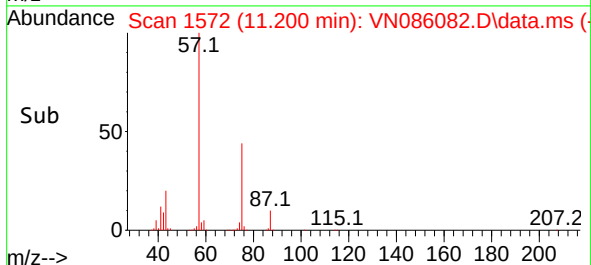
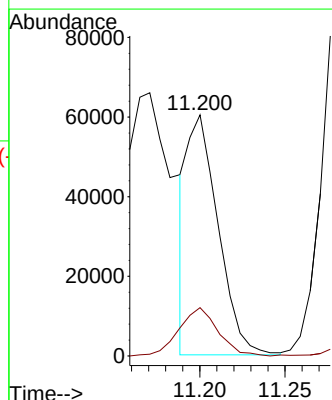
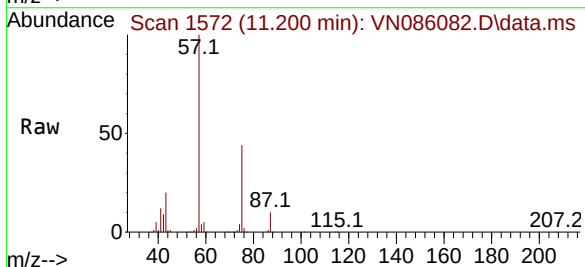
Acq: 24 Mar 2025 19:13

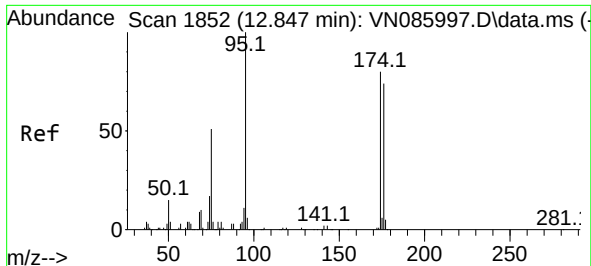
Tgt Ion: 43 Resp: 75972

Ion Ratio Lower Upper

43 100

58 25.5 32.4 97.2#

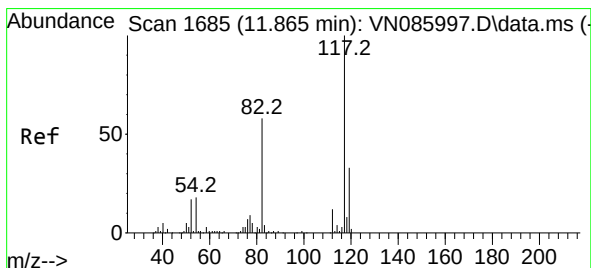
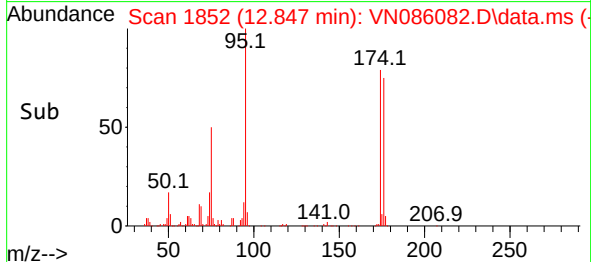
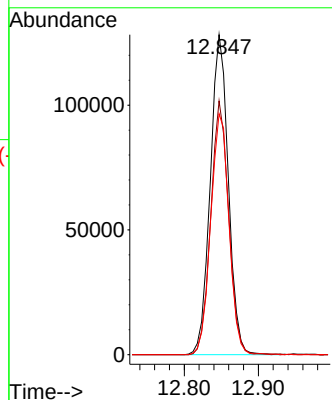
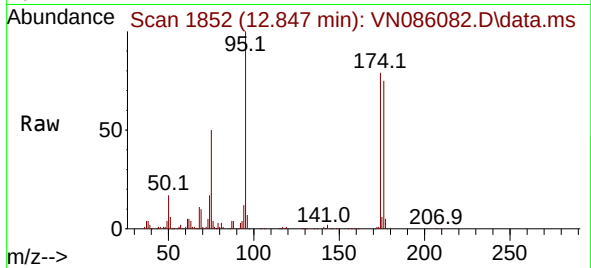




#62
4-Bromofluorobenzene
Concen: 44.976 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086082.D
Acq: 24 Mar 2025 19:13

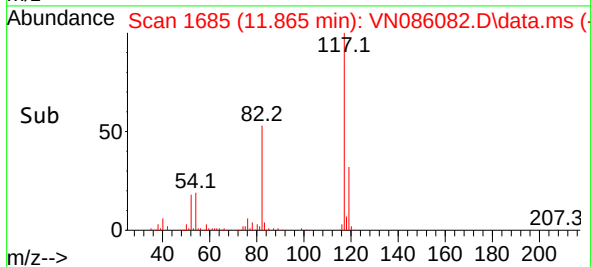
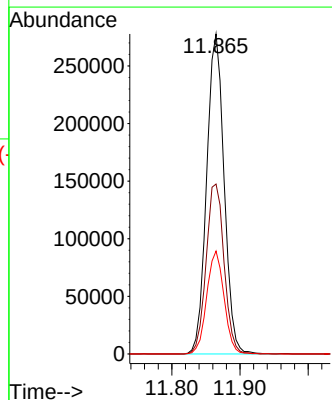
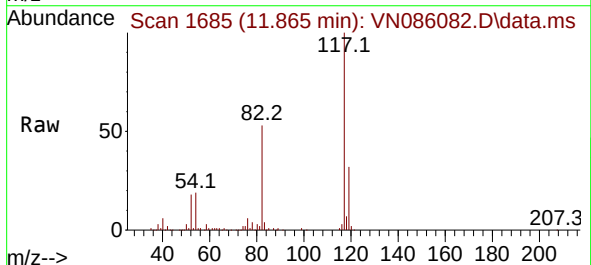
Instrument :
MSVOA_N
ClientSampleId :
TP-5

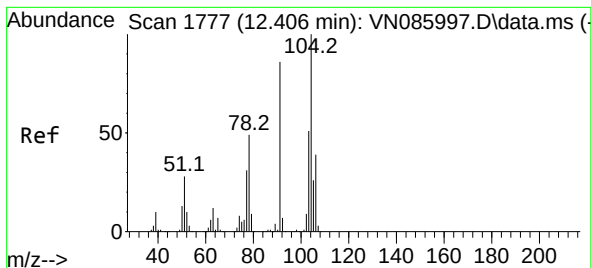
Tgt Ion: 95 Resp: 217089
Ion Ratio Lower Upper
95 100
174 78.6 0.0 156.8
176 76.1 0.0 152.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086082.D
Acq: 24 Mar 2025 19:13

Tgt Ion: 117 Resp: 495192
Ion Ratio Lower Upper
117 100
82 53.1 46.7 70.1
119 32.2 26.5 39.7





#70

Styrene

Concen: 0.348 ug/l

RT: 12.412 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN086082.D

Acq: 24 Mar 2025 19:13

Instrument :

MSVOA_N

ClientSampleId :

TP-5

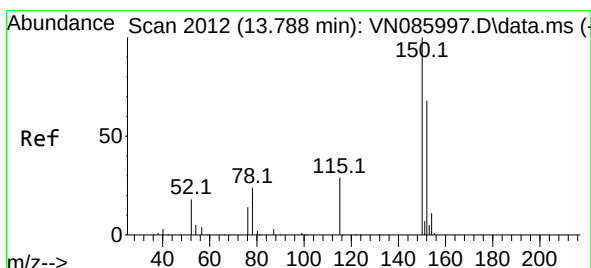
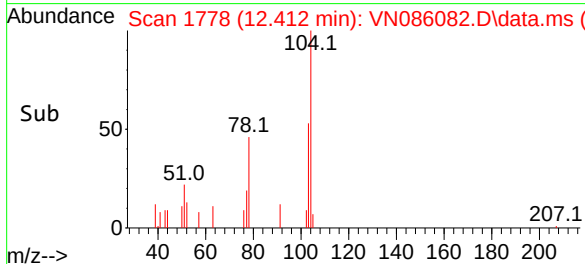
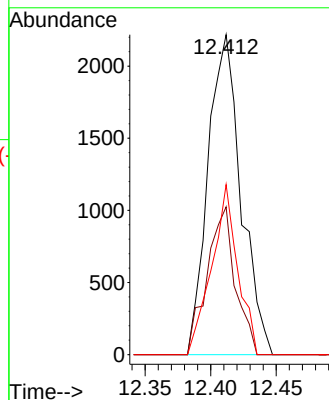
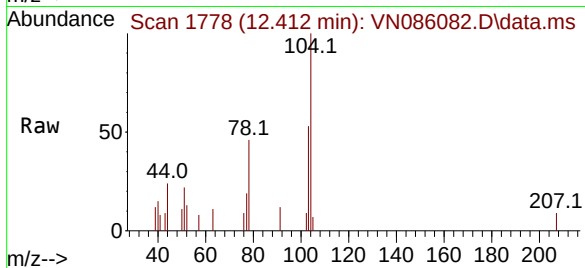
Tgt Ion:104 Resp: 3885

Ion Ratio Lower Upper

104 100

78 39.5 41.4 62.2#

103 41.9 42.9 64.3#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN086082.D

Acq: 24 Mar 2025 19:13

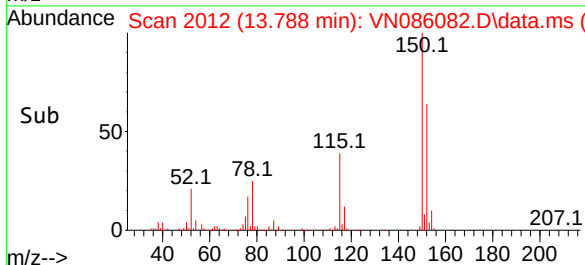
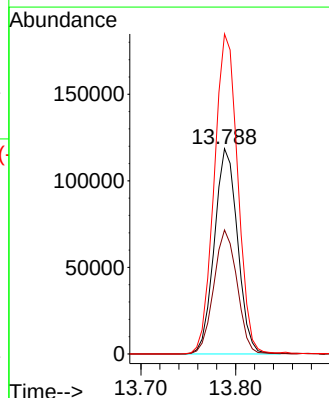
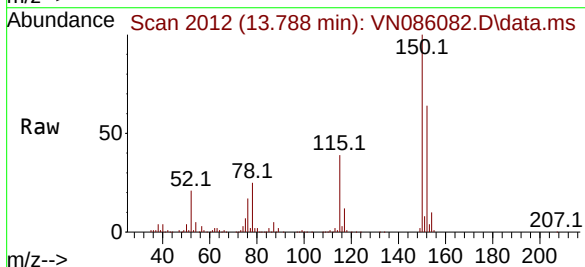
Tgt Ion:152 Resp: 201948

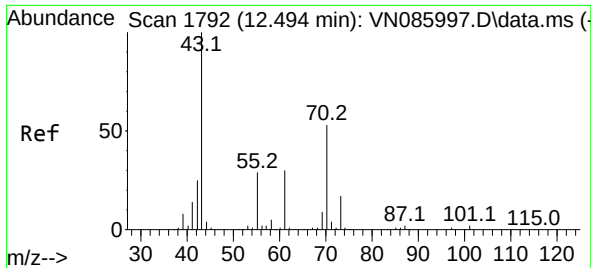
Ion Ratio Lower Upper

152 100

115 60.7 31.1 93.2

150 157.9 0.0 359.6

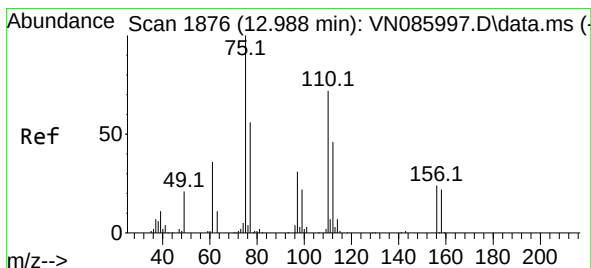
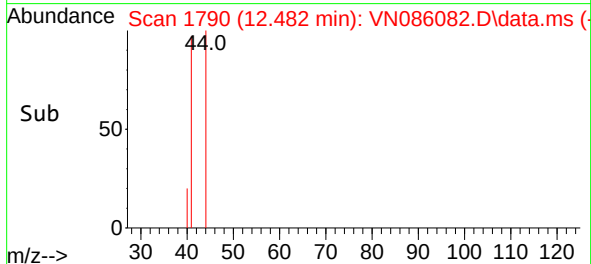
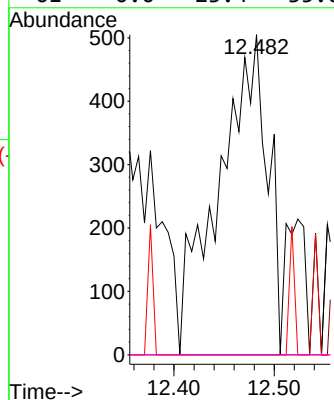
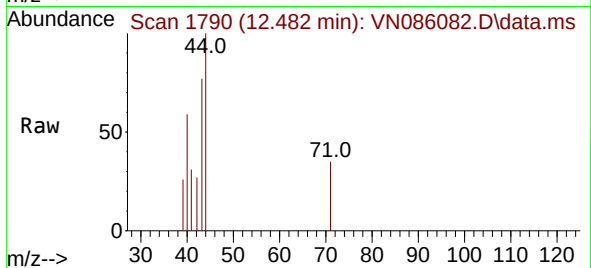




#74
N-amy1 acetate
Concen: 0.367 ug/l
RT: 12.482 min Scan# 1
Delta R.T. -0.012 min
Lab File: VN086082.D
Acq: 24 Mar 2025 19:13

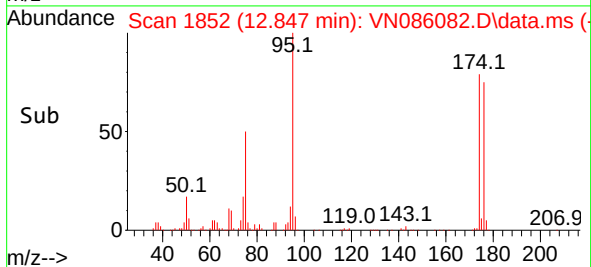
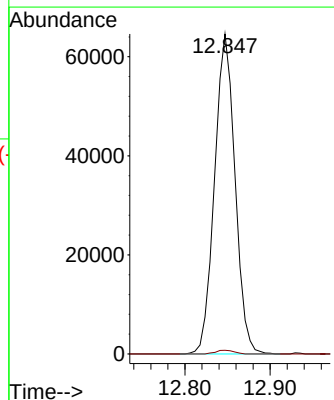
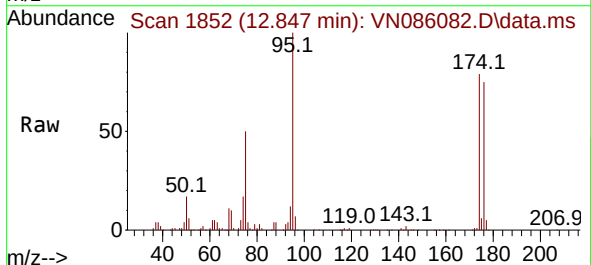
Instrument :
MSVOA_N
ClientSampleId :
TP-5

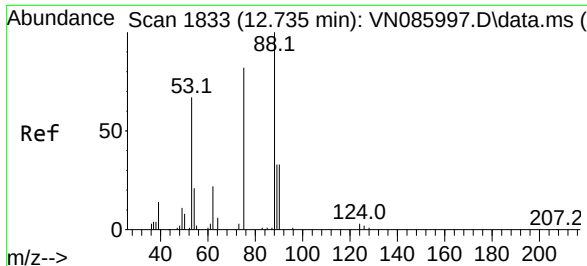
Tgt Ion: 43	Resp: 1692
Ion Ratio	Lower Upper
43	100
70	0.0 43.0 64.4#
55	0.0 23.8 35.8#
61	0.0 23.4 35.0#



#76
1,2,3-Trichloropropane
Concen: 23.844 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086082.D
Acq: 24 Mar 2025 19:13

Tgt Ion: 75	Resp: 107803
Ion Ratio	Lower Upper
75	100
77	1.0 83.7 251.0#

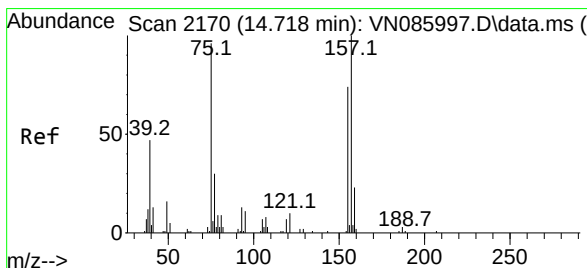
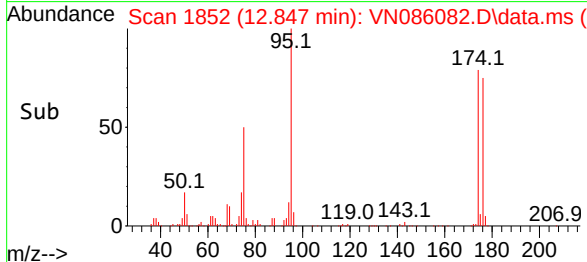
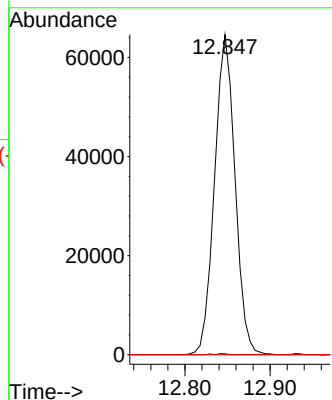
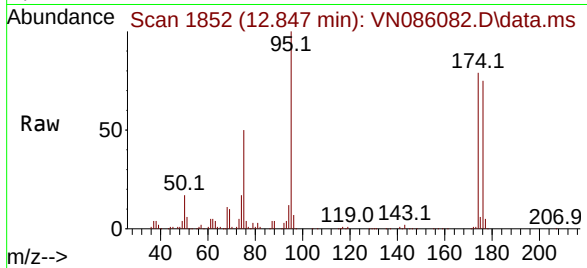




#81
trans-1,4-Dichloro-2-butene
Concen: 63.039 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN086082.D
Acq: 24 Mar 2025 19:13

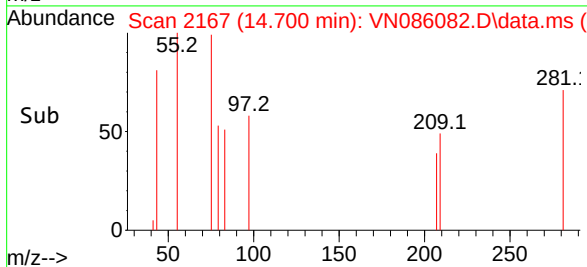
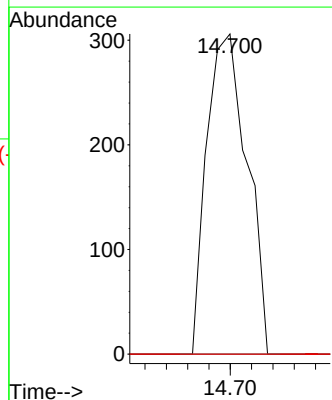
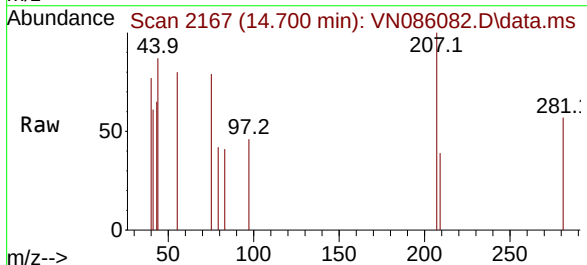
Instrument :
MSVOA_N
ClientSampleId :
TP-5

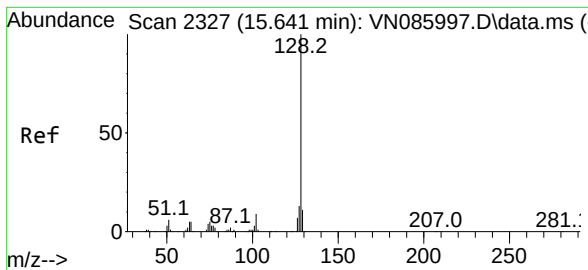
Tgt Ion: 75 Resp: 107803
Ion Ratio Lower Upper
75 100
53 0.2 66.0 99.0#
89 0.0 36.9 55.3#



#92
1,2-Dibromo-3-Chloropropane
Concen: 0.433 ug/l
RT: 14.700 min Scan# 2167
Delta R.T. -0.018 min
Lab File: VN086082.D
Acq: 24 Mar 2025 19:13

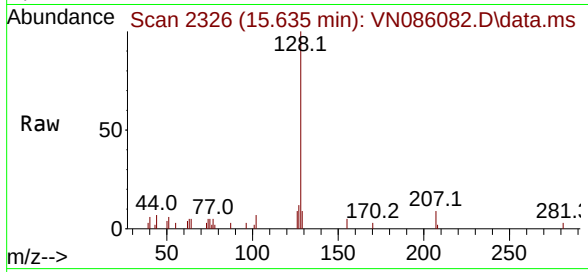
Tgt Ion: 75 Resp: 403
Ion Ratio Lower Upper
75 100
155 0.0 41.0 123.0#
157 0.0 53.7 161.1#





#95
Naphthalene
Concen: 1.605 ug/l
RT: 15.635 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN086082.D
Acq: 24 Mar 2025 19:13

Instrument :
MSVOA_N
ClientSampleId :
TP-5



Tgt Ion:	128	Resp:	16098
Ion Ratio	Lower	Upper	
128	100		
127	13.0	10.2	15.4
129	10.4	9.0	13.6

