

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062025\
 Data File : VN087130.D
 Acq On : 20 Jun 2025 12:03
 Operator : JC\MD
 Sample : Q2355-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 3897

Quant Time: Jun 20 23:03:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

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

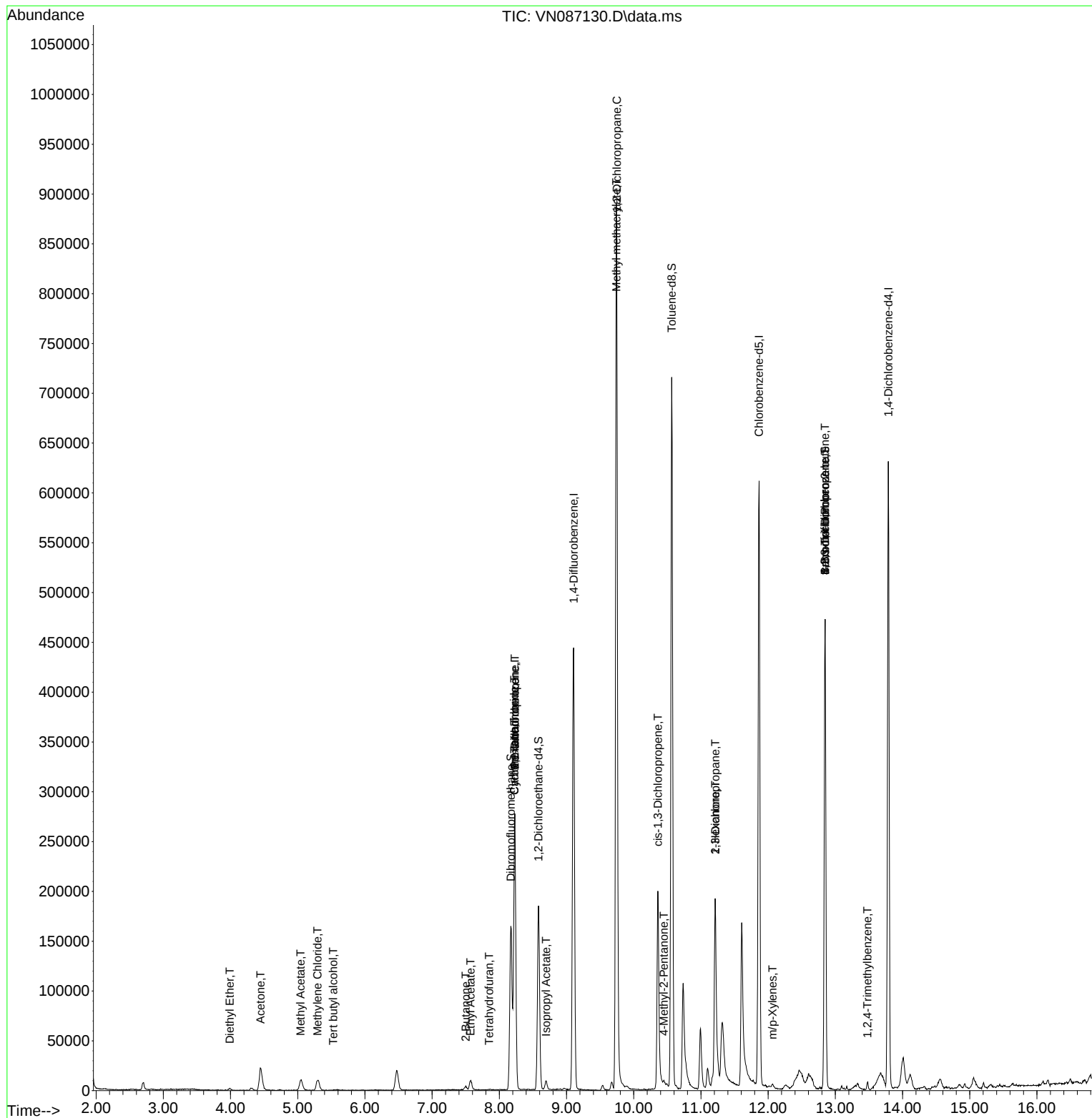
Internal Standards						
1) Pentafluorobenzene	8.230	168	218057	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	430559	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	388220	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	187191	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	148484	50.859	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 101.720%	
35) Dibromofluoromethane	8.171	113	131950	51.713	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 103.420%	
50) Toluene-d8	10.565	98	529508	52.421	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 104.840%	
62) 4-Bromofluorobenzene	12.847	95	187817	50.046	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 100.100%	
Target Compounds						Qvalue
8) Diethyl Ether	3.989	74	1226	0.744	ug/l	99
11) Tert butyl alcohol	5.530	59	319	0.403	ug/l #	73
16) Acetone	4.448	43	44391	28.672	ug/l #	87
18) Methyl Acetate	5.042	43	23018	5.102	ug/l	96
20) Methylene Chloride	5.295	84	10512	3.627	ug/l #	85
25) 2-Butanone	7.500	43	6287	2.498	ug/l	91
29) Tetrahydrofuran	7.847	42	330	0.201	ug/l #	59
31) Cyclohexane	8.224	56	3461	0.731	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	15358	4.039	ug/l #	48
37) Ethyl Acetate	7.571	43	15574	3.218	ug/l	98
38) Carbon Tetrachloride	8.224	117	21373	5.726	ug/l #	16
43) Isopropyl Acetate	8.694	43	9754	1.256	ug/l	95
45) 1,2-Dichloropropane	9.747	63	1231	0.407	ug/l #	43
48) Methyl methacrylate	9.741	41	75011	20.979	ug/l #	34
51) 4-Methyl-2-Pentanone	10.447	43	5628	1.203	ug/l #	83
54) cis-1,3-Dichloropropene	10.359	75	48223	9.750	ug/l #	56
57) 1,3-Dichloropropane	11.212	76	3019	0.595	ug/l #	43
59) 2-Hexanone	11.212	43	29321	9.733	ug/l #	55
68) m/p-Xylenes	12.065	106	1418	0.251	ug/l	92
71) Bromoform	12.847	173	1100	0.539	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	85357	19.183	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	85357	44.159	ug/l #	16
84) 1,2,4-Trimethylbenzene	13.476	105	5237	0.464	ug/l	100

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

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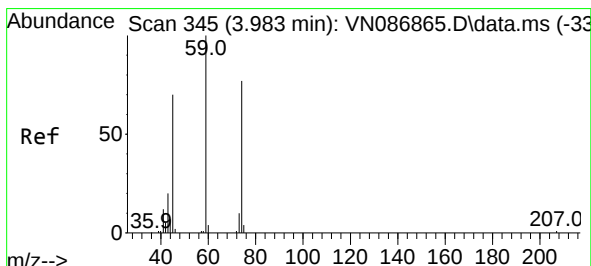
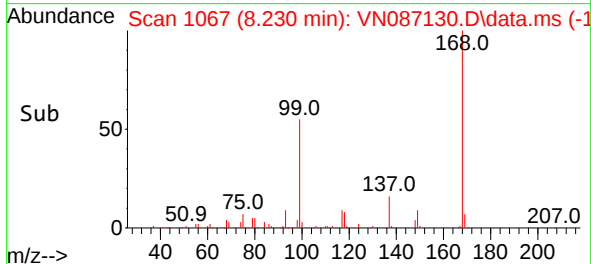
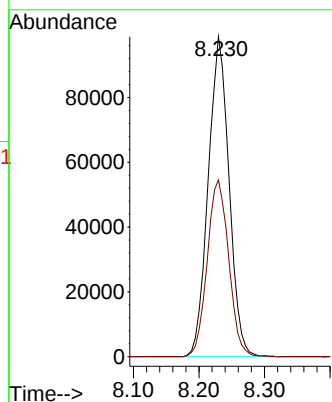
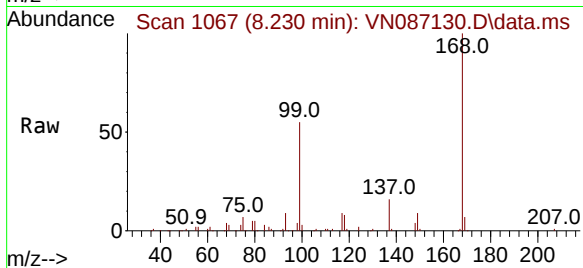




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN087130.D
Acq: 20 Jun 2025 12:03

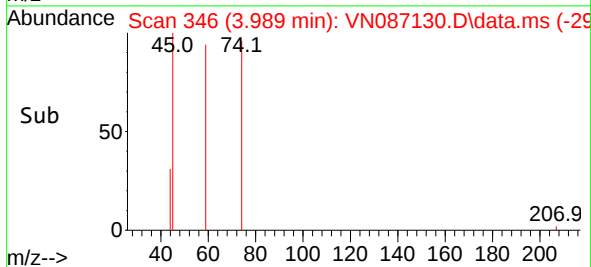
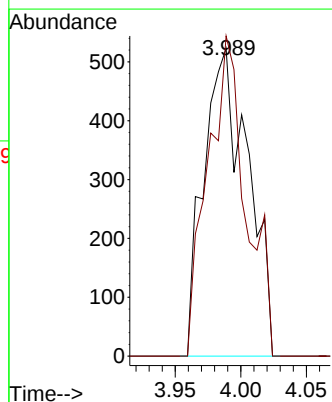
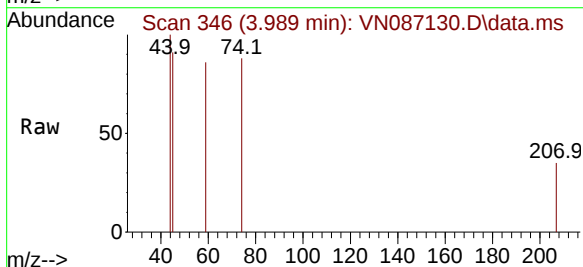
Instrument :
MSVOA_N
ClientSampleId :
3897

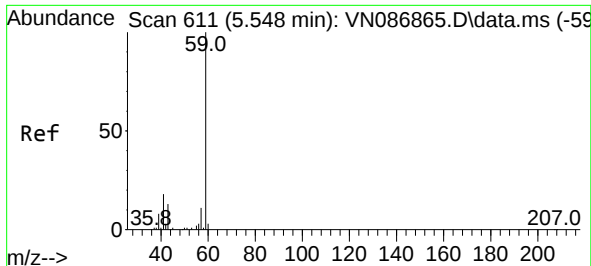
Tgt Ion:168 Resp: 218057
Ion Ratio Lower Upper
168 100
99 55.3 49.1 73.7



#8
Diethyl Ether
Concen: 0.744 ug/l
RT: 3.989 min Scan# 346
Delta R.T. 0.006 min
Lab File: VN087130.D
Acq: 20 Jun 2025 12:03

Tgt Ion: 74 Resp: 1226
Ion Ratio Lower Upper
74 100
45 90.1 45.5 136.5

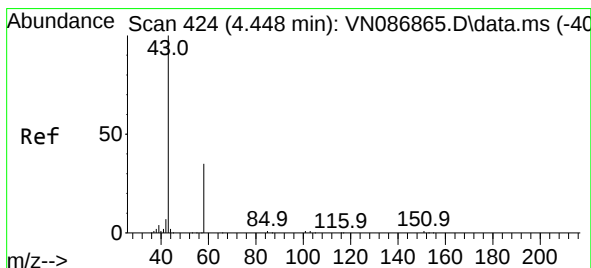
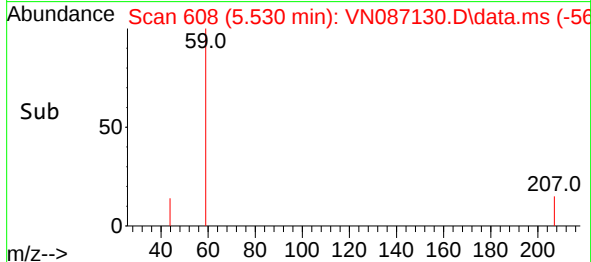
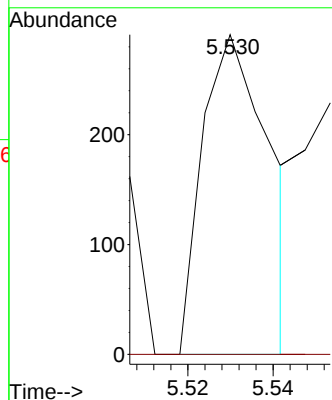
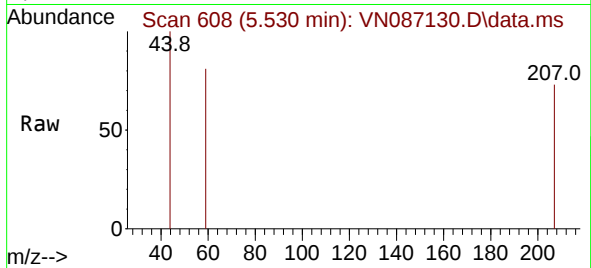




#11
Tert butyl alcohol
Concen: 0.403 ug/l
RT: 5.530 min Scan# 608
Delta R.T. -0.018 min
Lab File: VN087130.D
Acq: 20 Jun 2025 12:03

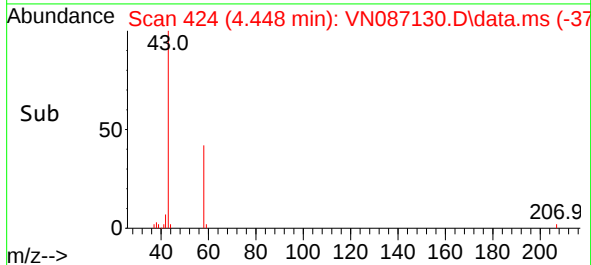
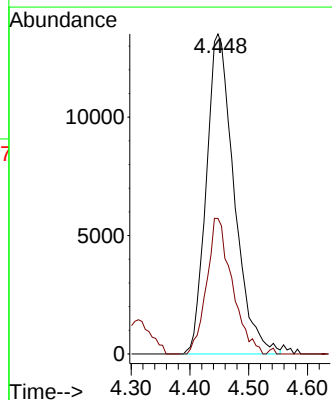
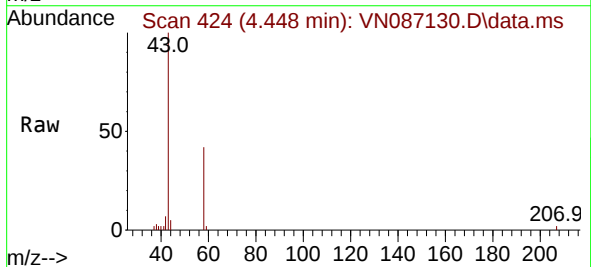
Instrument :
MSVOA_N
ClientSampleId :
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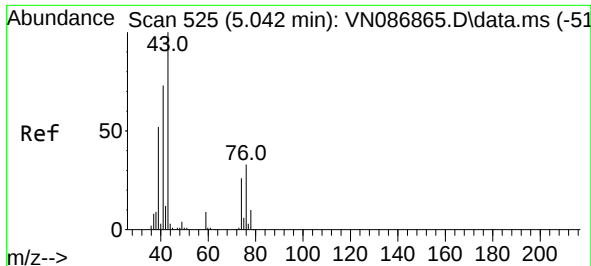
Tgt Ion: 59 Resp: 319
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#



#16
Acetone
Concen: 28.672 ug/l
RT: 4.448 min Scan# 424
Delta R.T. 0.000 min
Lab File: VN087130.D
Acq: 20 Jun 2025 12:03

Tgt Ion: 43 Resp: 44391
Ion Ratio Lower Upper
43 100
58 42.4 28.0 42.0#

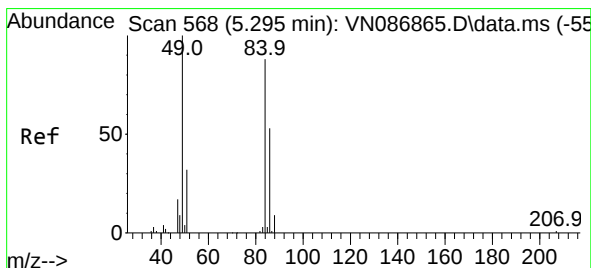
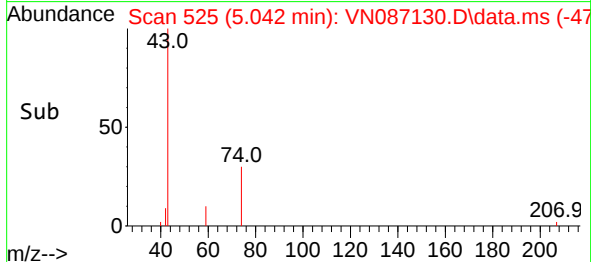
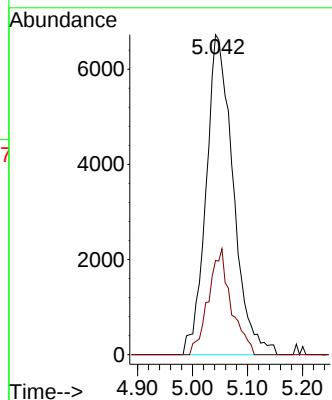
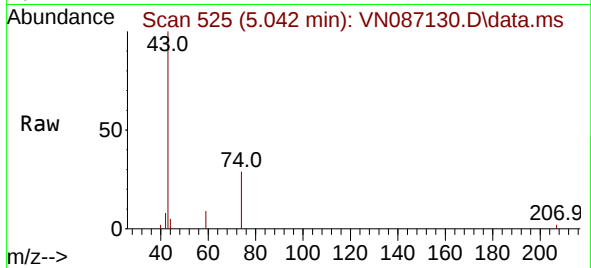




#18
Methyl Acetate
Concen: 5.102 ug/l
RT: 5.042 min Scan# 518
Delta R.T. 0.000 min
Lab File: VN087130.D
Acq: 20 Jun 2025 12:03

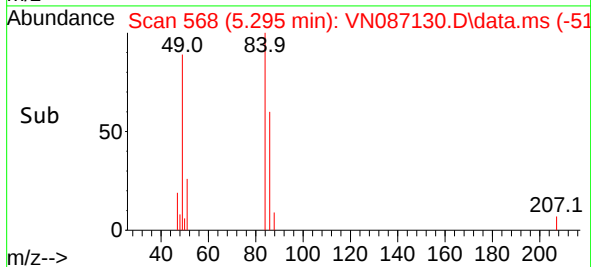
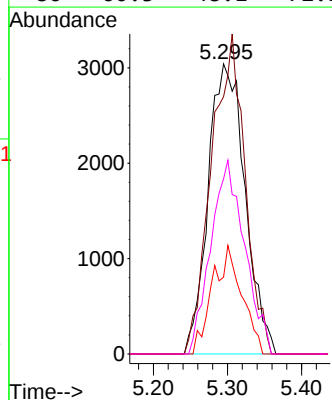
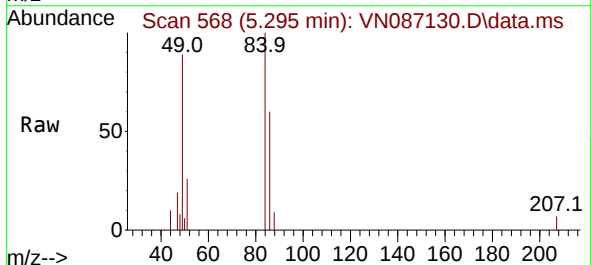
Instrument :
MSVOA_N
ClientSampleId :
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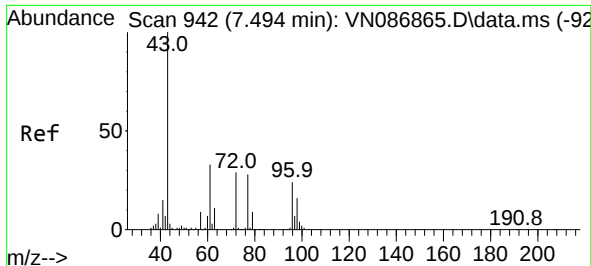
Tgt Ion: 43 Resp: 23018
Ion Ratio Lower Upper
43 100
74 27.9 20.7 31.1



#20
Methylene Chloride
Concen: 3.627 ug/l
RT: 5.295 min Scan# 568
Delta R.T. 0.000 min
Lab File: VN087130.D
Acq: 20 Jun 2025 12:03

Tgt Ion: 84 Resp: 10512
Ion Ratio Lower Upper
84 100
49 88.7 90.5 135.7#
51 26.5 28.5 42.7#
86 60.3 48.1 72.1

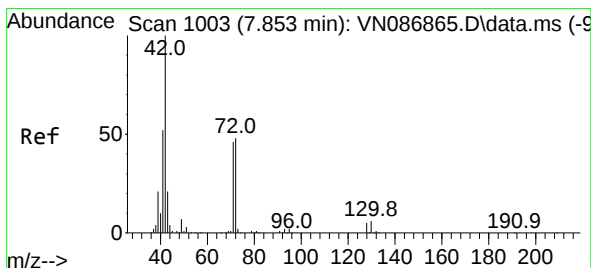
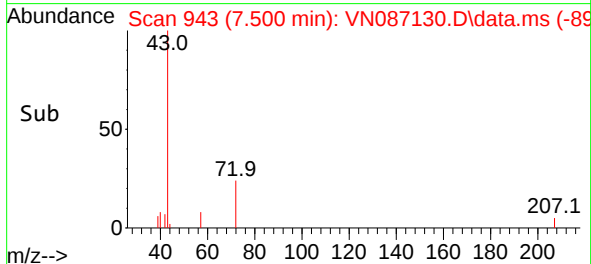
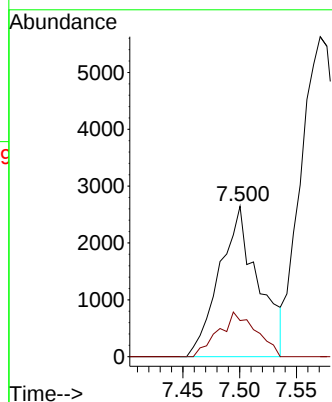
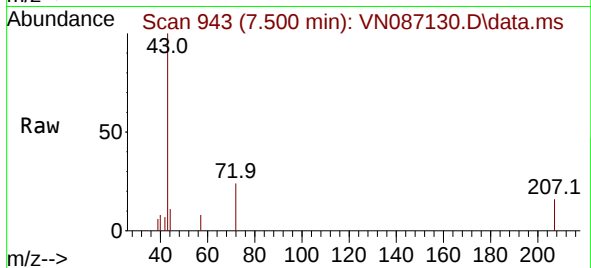




#25
2-Butanone
Concen: 2.498 ug/l
RT: 7.500 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN087130.D
Acq: 20 Jun 2025 12:03

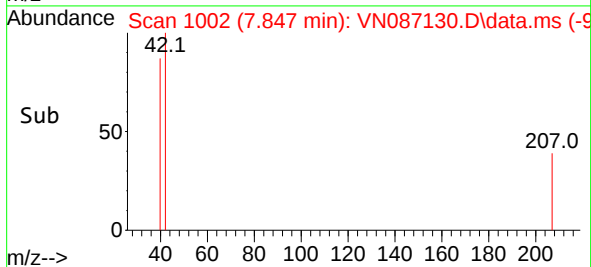
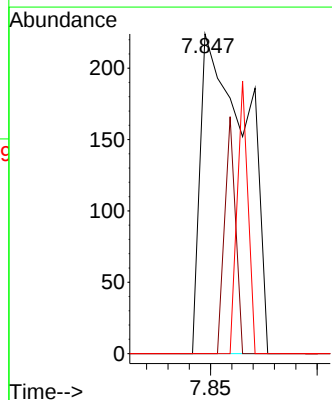
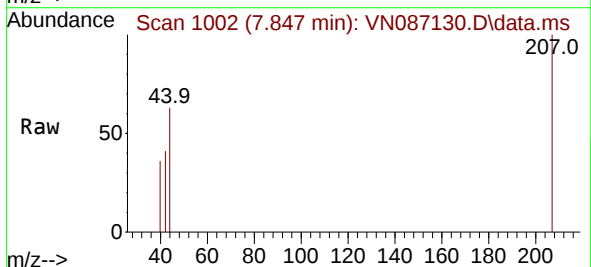
Instrument :
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ClientSampleId :
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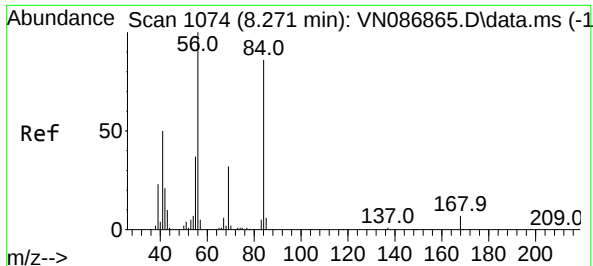
Tgt Ion: 43 Resp: 6287
Ion Ratio Lower Upper
43 100
72 24.0 23.0 34.6



#29
Tetrahydrofuran
Concen: 0.201 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. -0.006 min
Lab File: VN087130.D
Acq: 20 Jun 2025 12:03

Tgt Ion: 42 Resp: 330
Ion Ratio Lower Upper
42 100
72 17.9 37.8 56.6#
71 20.3 35.6 53.4#

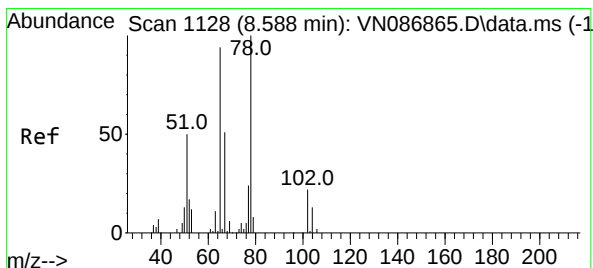
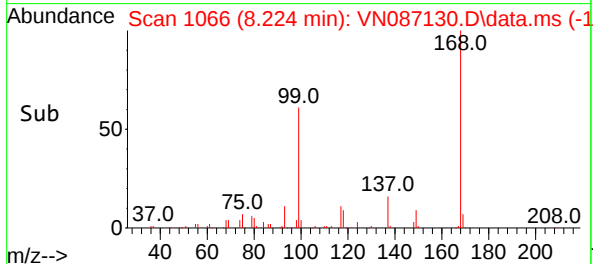
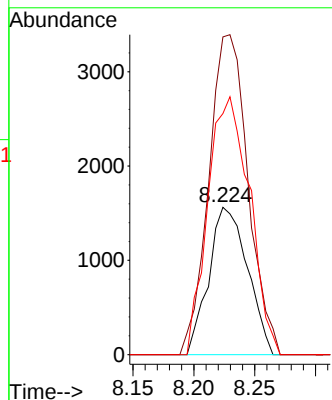
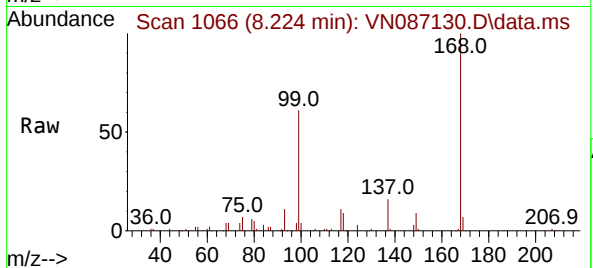




#31
Cyclohexane
Concen: 0.731 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.047 min
Lab File: VN087130.D
Acq: 20 Jun 2025 12:03

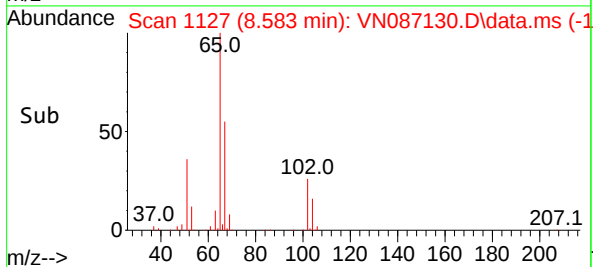
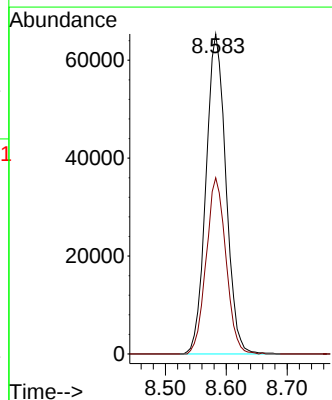
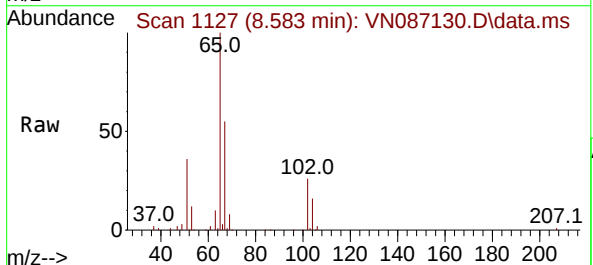
Instrument :
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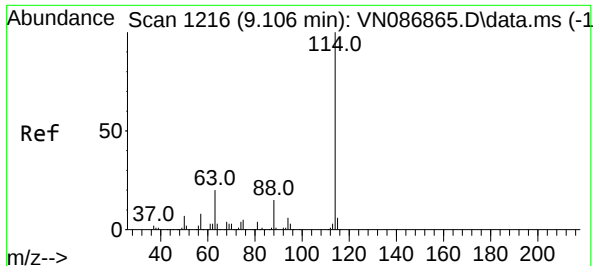
Tgt Ion: 56 Resp: 3461
Ion Ratio Lower Upper
56 100
69 215.5 25.4 38.0#
84 163.5 68.8 103.2#



#33
1,2-Dichloroethane-d4
Concen: 50.859 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN087130.D
Acq: 20 Jun 2025 12:03

Tgt Ion: 65 Resp: 148484
Ion Ratio Lower Upper
65 100
67 54.6 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN087130.D

Acq: 20 Jun 2025 12:03

Instrument :

MSVOA_N

ClientSampleId :

3897

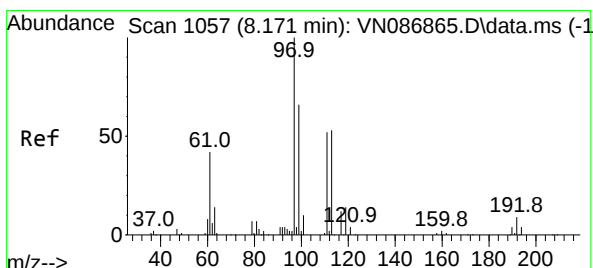
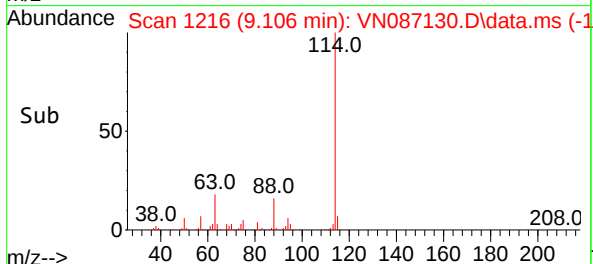
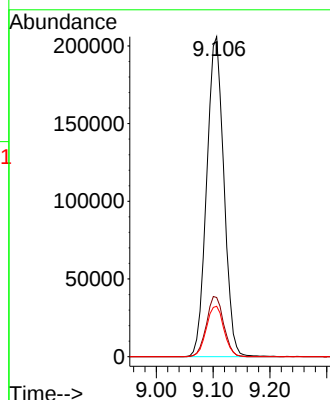
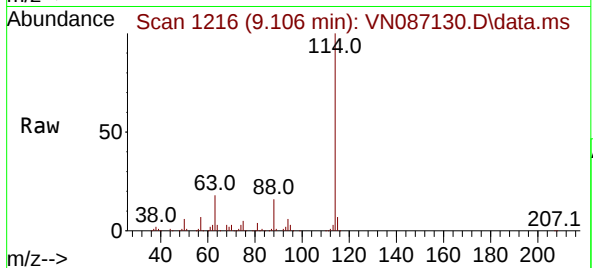
Tgt Ion:114 Resp: 430559

Ion Ratio Lower Upper

114 100

63 18.5 0.0 39.6

88 15.8 0.0 30.2



#35

Dibromofluoromethane

Concen: 51.713 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.000 min

Lab File: VN087130.D

Acq: 20 Jun 2025 12:03

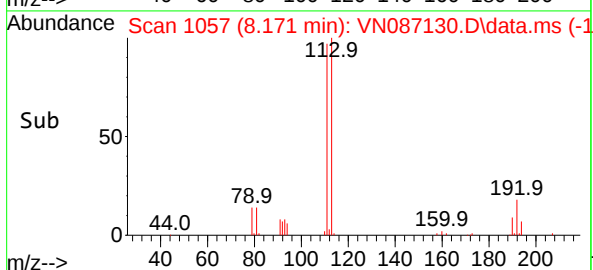
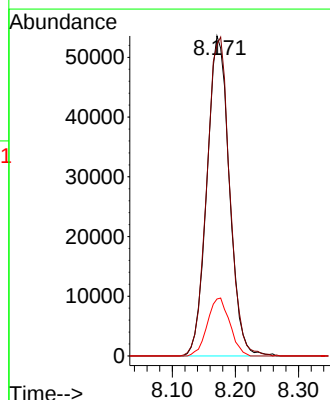
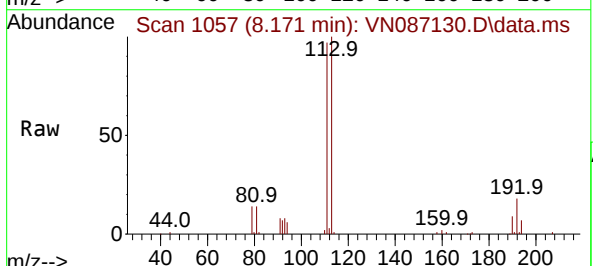
Tgt Ion:113 Resp: 131950

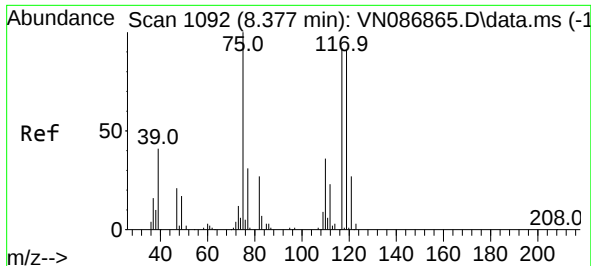
Ion Ratio Lower Upper

113 100

111 101.2 84.2 126.2

192 18.0 14.2 21.4





#36

1,1-Dichloropropene

Concen: 4.039 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN087130.D

Acq: 20 Jun 2025 12:03

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3897

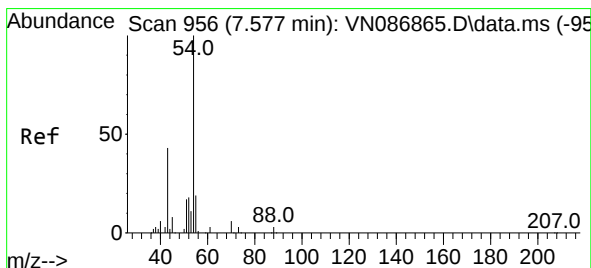
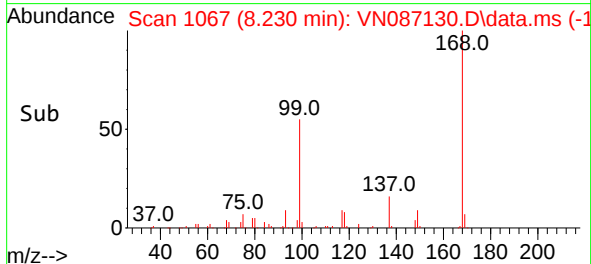
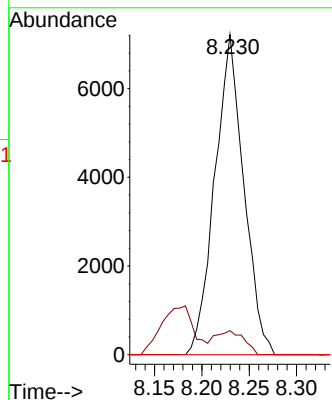
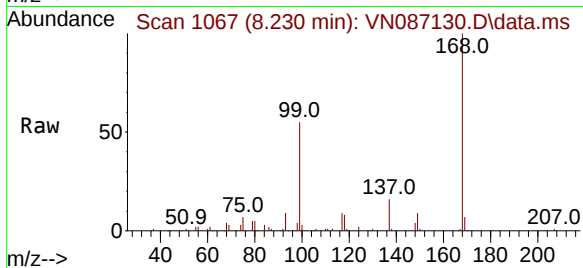
Tgt Ion: 75 Resp: 15358

Ion Ratio Lower Upper

75 100

110 7.4 17.6 52.9#

77 0.0 25.3 37.9#



#37

Ethyl Acetate

Concen: 3.218 ug/l

RT: 7.571 min Scan# 955

Delta R.T. -0.006 min

Lab File: VN087130.D

Acq: 20 Jun 2025 12:03

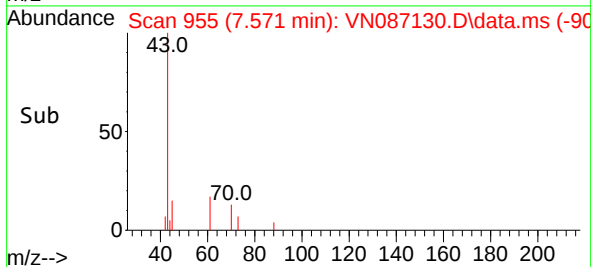
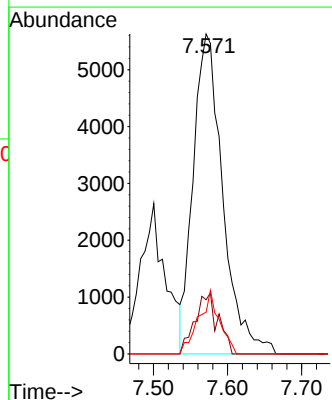
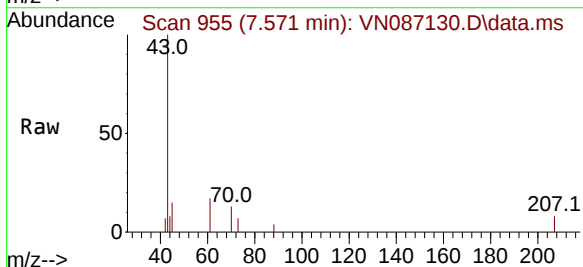
Tgt Ion: 43 Resp: 15574

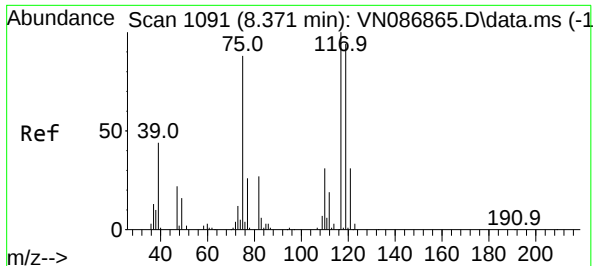
Ion Ratio Lower Upper

43 100

61 14.9 12.1 18.1

70 14.0 9.8 14.6

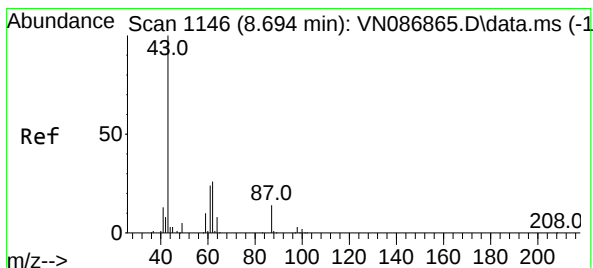
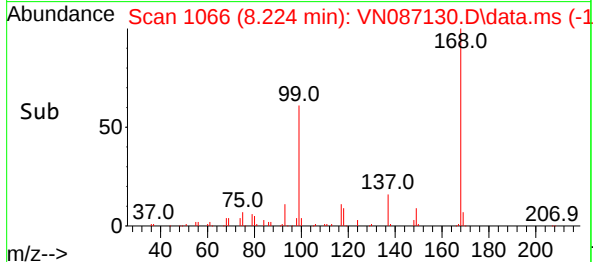
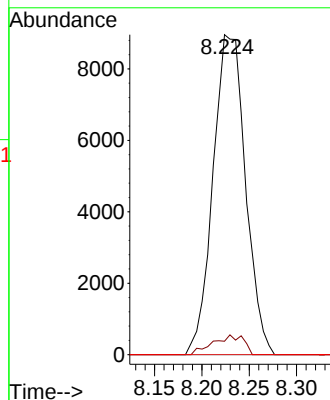
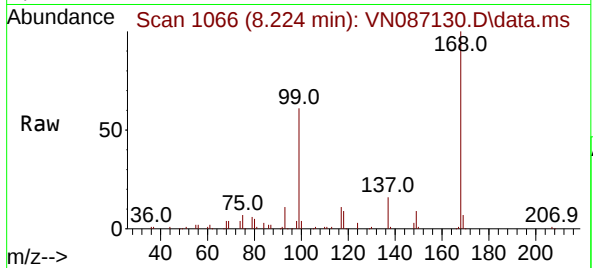




#38
Carbon Tetrachloride
Concen: 5.726 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.147 min
Lab File: VN087130.D
Acq: 20 Jun 2025 12:03

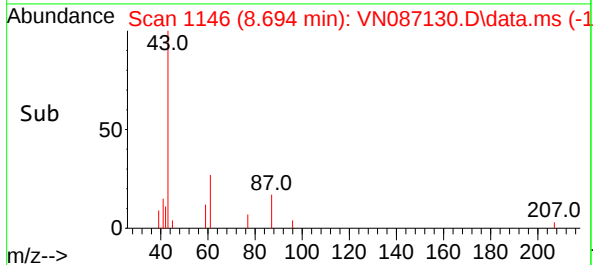
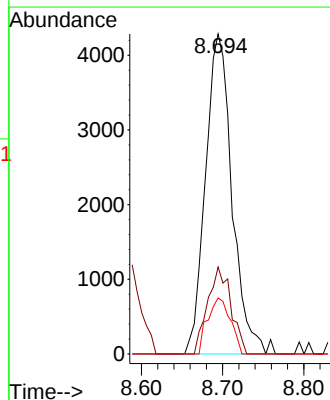
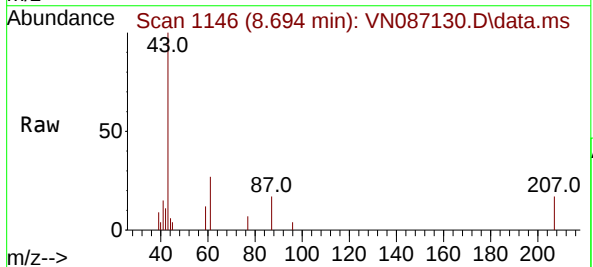
Instrument :
MSVOA_N
ClientSampleId :
3897

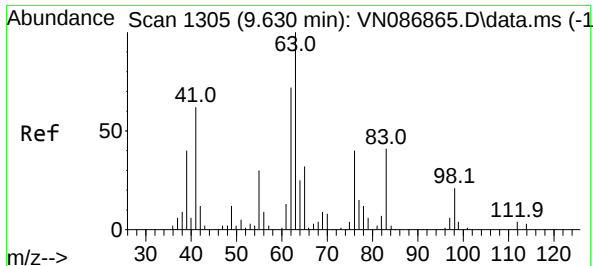
Tgt Ion:117 Resp: 21373
Ion Ratio Lower Upper
117 100
119 4.2 75.0 112.6#
121 0.0 24.9 37.3#



#43
Isopropyl Acetate
Concen: 1.256 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN087130.D
Acq: 20 Jun 2025 12:03

Tgt Ion: 43 Resp: 9754
Ion Ratio Lower Upper
43 100
61 23.9 22.1 33.1
87 14.9 11.8 17.6





#45

1,2-Dichloropropane

Concen: 0.407 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.118 min

Lab File: VN087130.D

Acq: 20 Jun 2025 12:03

Instrument :

MSVOA_N

ClientSampleId :

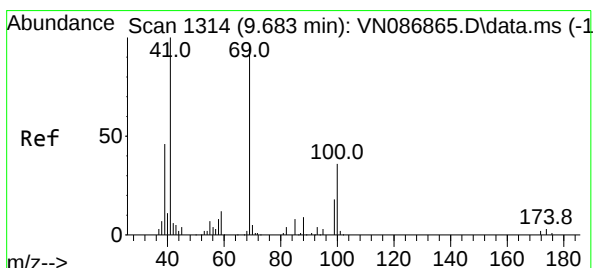
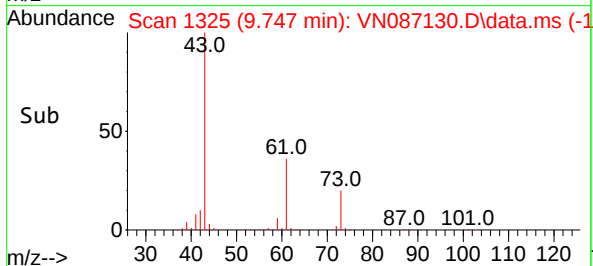
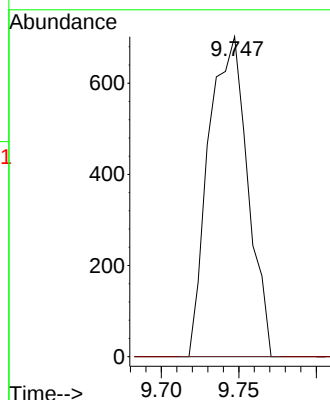
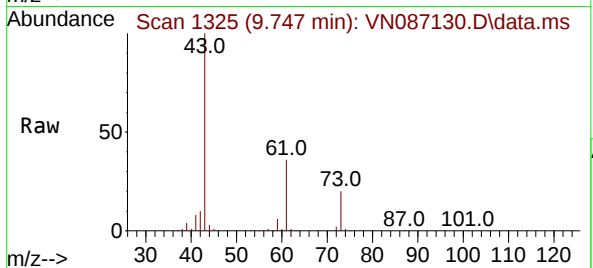
3897

Tgt Ion: 63 Resp: 1231

Ion Ratio Lower Upper

63 100

65 0.0 25.5 38.3#



#48

Methyl methacrylate

Concen: 20.979 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.059 min

Lab File: VN087130.D

Acq: 20 Jun 2025 12:03

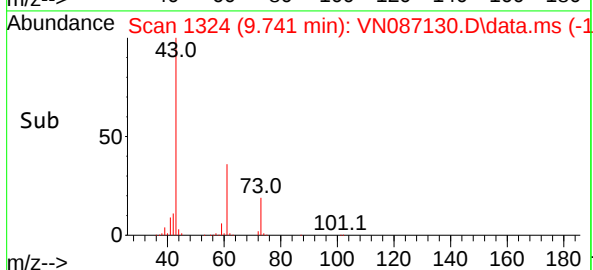
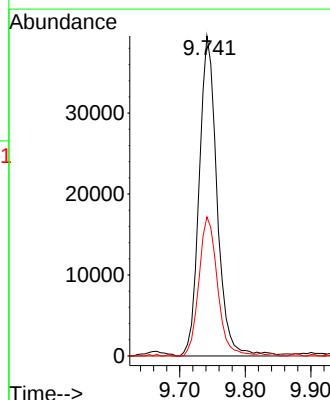
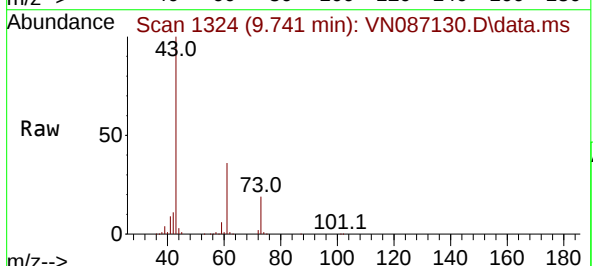
Tgt Ion: 41 Resp: 75011

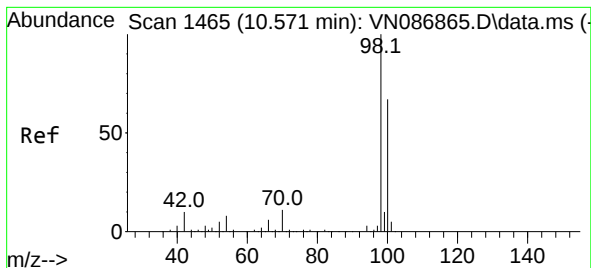
Ion Ratio Lower Upper

41 100

69 0.0 74.6 112.0#

39 45.0 40.2 60.4





#50

Toluene-d8

Concen: 52.421 ug/l

RT: 10.565 min Scan# 1465

Delta R.T. -0.006 min

Lab File: VN087130.D

Acq: 20 Jun 2025 12:03

Instrument :

MSVOA_N

ClientSampleId :

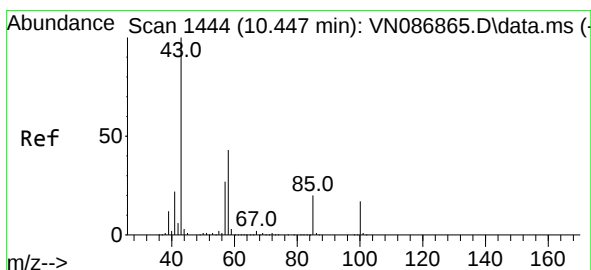
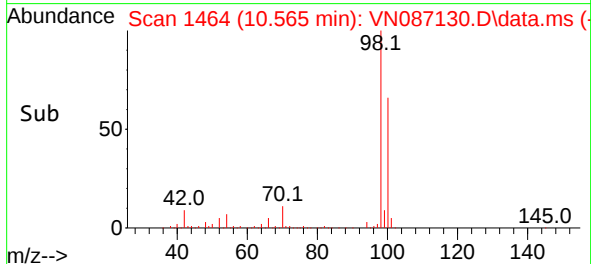
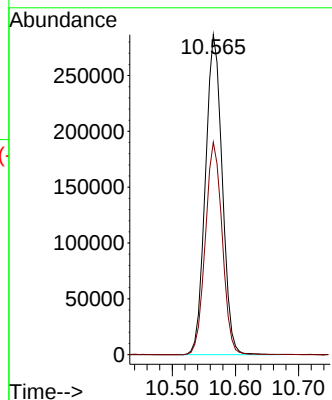
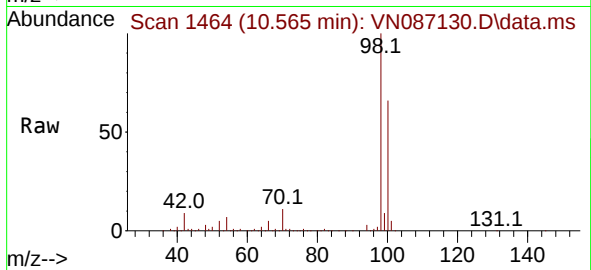
3897

Tgt Ion: 98 Resp: 529508

Ion Ratio Lower Upper

98 100

100 66.5 53.4 80.0



#51

4-Methyl-2-Pentanone

Concen: 1.203 ug/l

RT: 10.447 min Scan# 1444

Delta R.T. 0.000 min

Lab File: VN087130.D

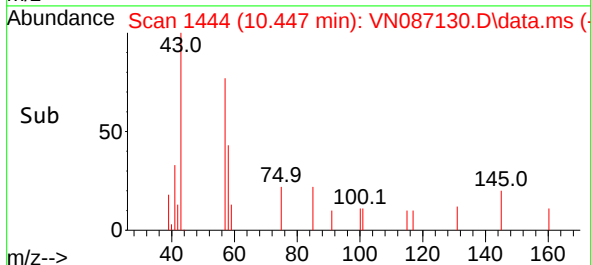
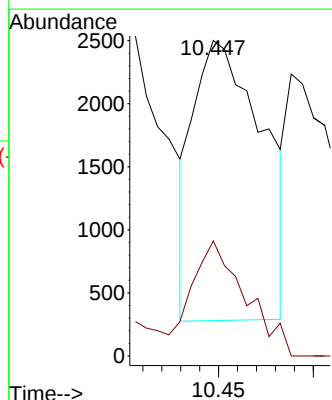
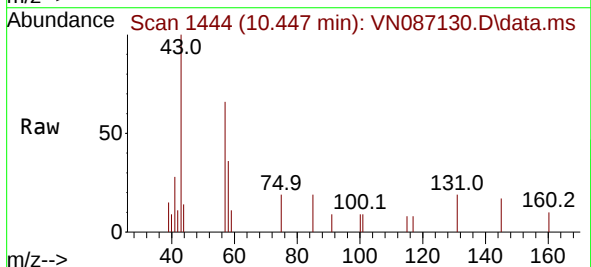
Acq: 20 Jun 2025 12:03

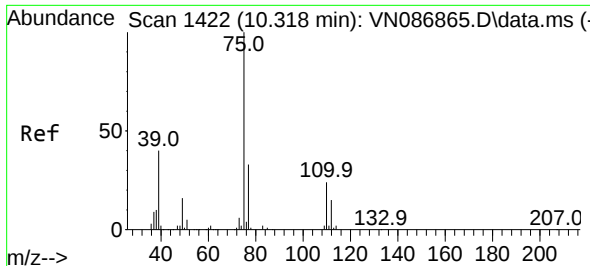
Tgt Ion: 43 Resp: 5628

Ion Ratio Lower Upper

43 100

58 32.0 34.2 51.4#

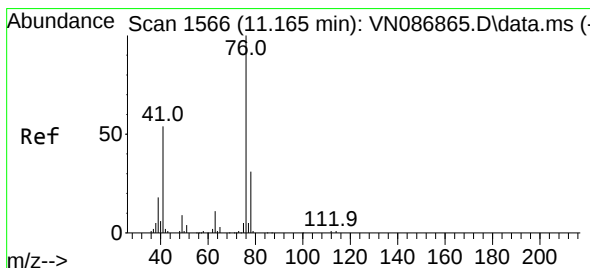
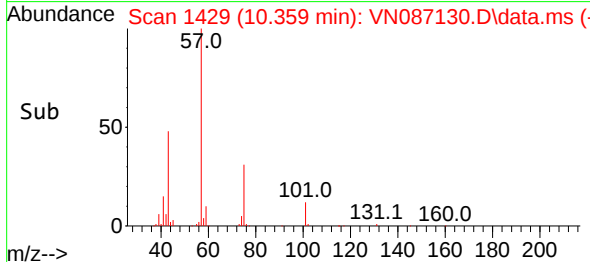
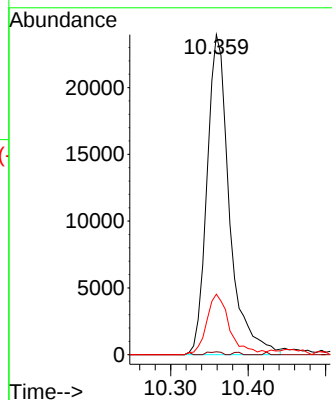
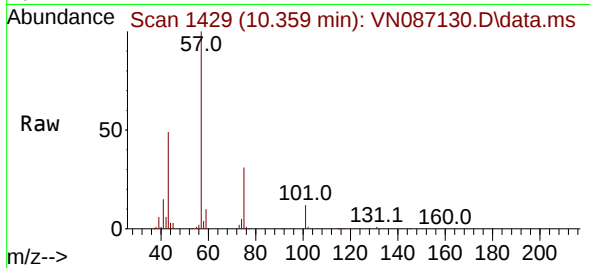




#54
 cis-1,3-Dichloropropene
 Concen: 9.750 ug/l
 RT: 10.359 min Scan# 1422
 Delta R.T. 0.041 min
 Lab File: VN087130.D
 Acq: 20 Jun 2025 12:03

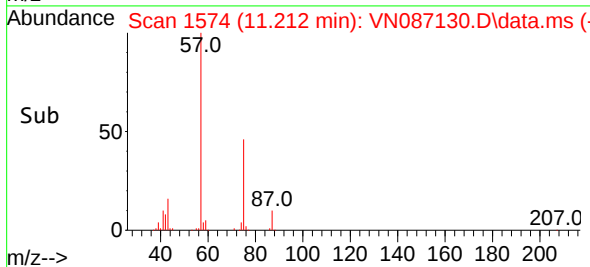
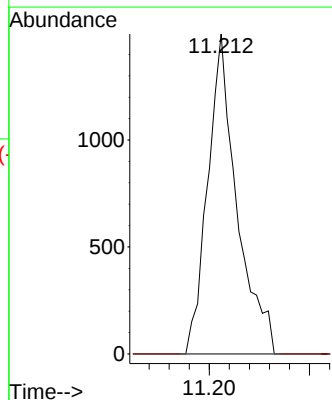
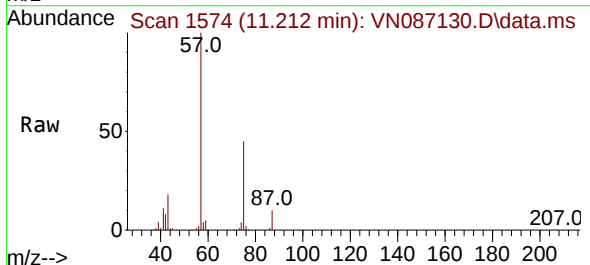
Instrument :
 MSVOA_N
 ClientSampleId :
 3897

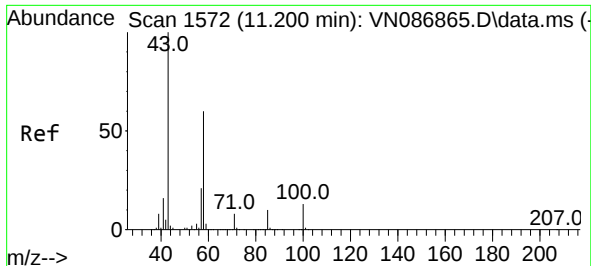
Tgt Ion: 75 Resp: 48223
 Ion Ratio Lower Upper
 75 100
 77 0.9 26.2 39.4#
 39 18.9 32.3 48.5#



#57
 1,3-Dichloropropane
 Concen: 0.595 ug/l
 RT: 11.212 min Scan# 1574
 Delta R.T. 0.047 min
 Lab File: VN087130.D
 Acq: 20 Jun 2025 12:03

Tgt Ion: 76 Resp: 3019
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.3 37.9#

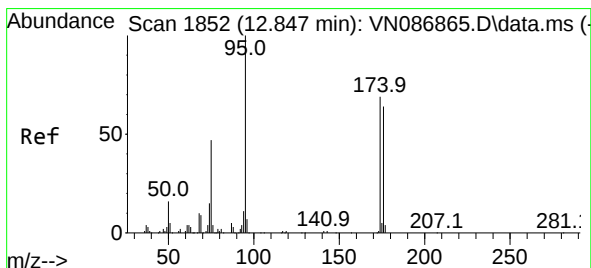
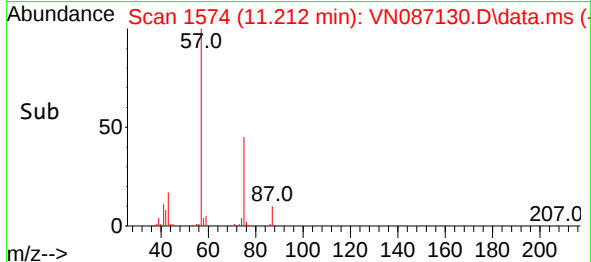
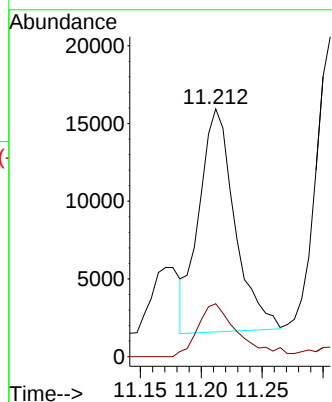
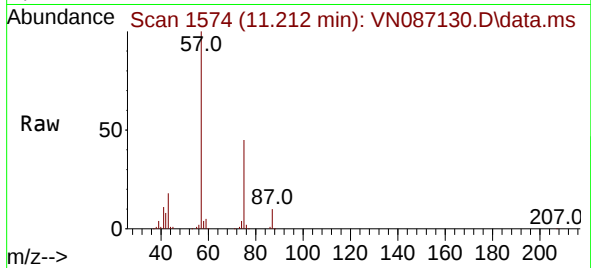




#59
2-Hexanone
Concen: 9.733 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.012 min
Lab File: VN087130.D
Acq: 20 Jun 2025 12:03

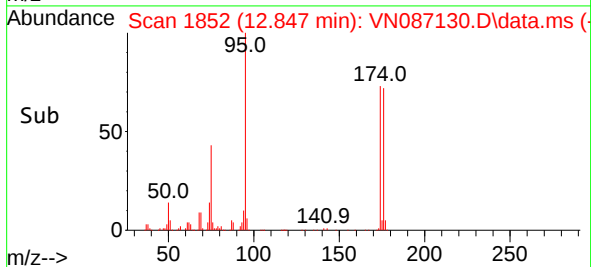
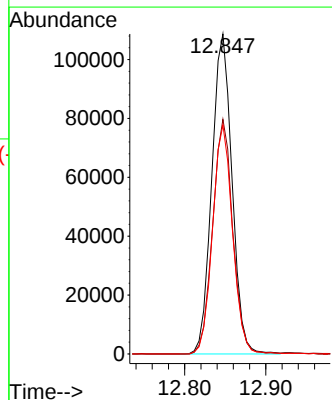
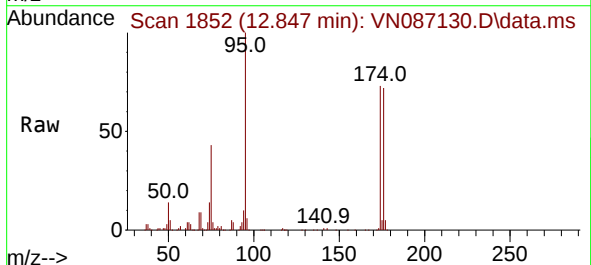
Instrument :
MSVOA_N
ClientSampleId :
3897

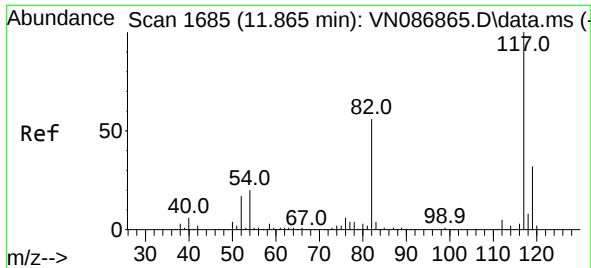
Tgt Ion: 43 Resp: 29321
Ion Ratio Lower Upper
43 100
58 26.8 30.4 91.3#



#62
4-Bromofluorobenzene
Concen: 50.046 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN087130.D
Acq: 20 Jun 2025 12:03

Tgt Ion: 95 Resp: 187817
Ion Ratio Lower Upper
95 100
174 73.0 0.0 141.8
176 70.8 0.0 132.6

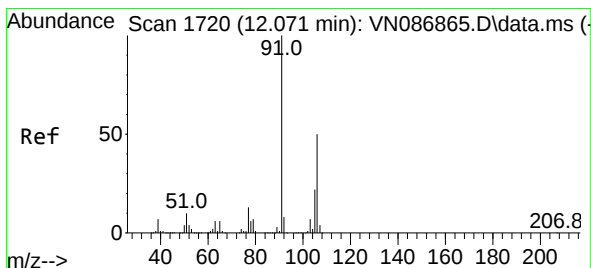
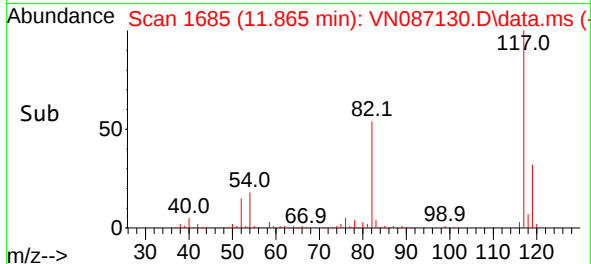
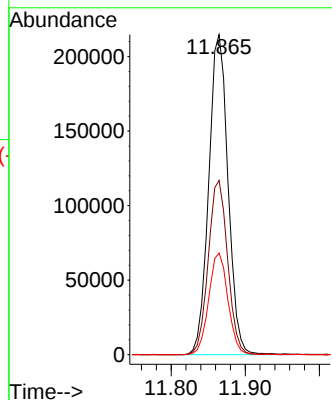
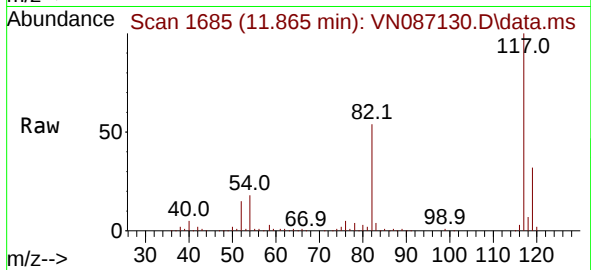




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11719
Delta R.T. 0.000 min
Lab File: VN087130.D
Acq: 20 Jun 2025 12:03

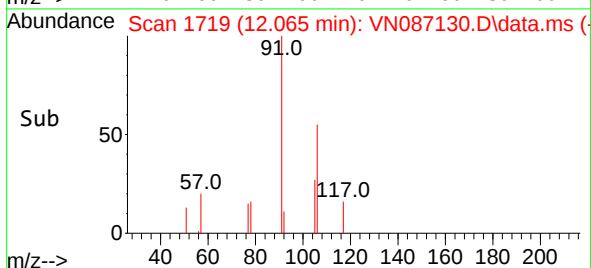
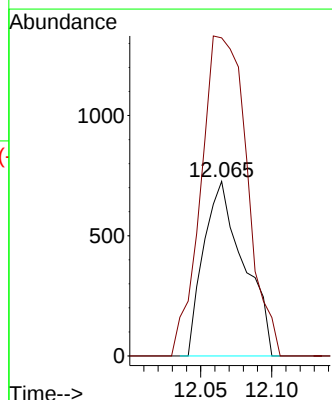
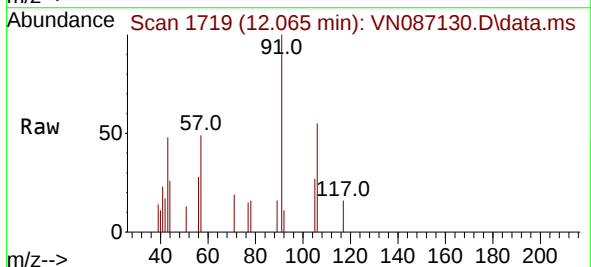
Instrument :
MSVOA_N
ClientSampleId :
3897

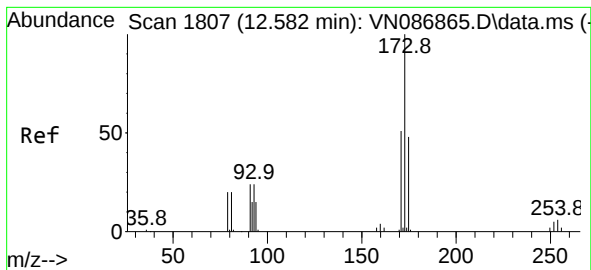
Tgt Ion:117 Resp: 388220
Ion Ratio Lower Upper
117 100
82 54.4 44.6 67.0
119 31.8 25.5 38.3



#68
m/p-Xylenes
Concen: 0.251 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.006 min
Lab File: VN087130.D
Acq: 20 Jun 2025 12:03

Tgt Ion:106 Resp: 1418
Ion Ratio Lower Upper
106 100
91 211.3 159.4 239.0





#71

Bromoform

Concen: 0.539 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.265 min

Lab File: VN087130.D

Acq: 20 Jun 2025 12:03

Instrument :

MSVOA_N

ClientSampleId :

3897

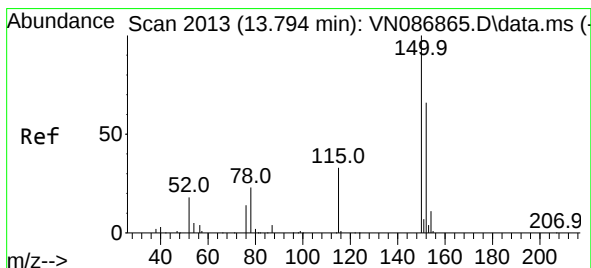
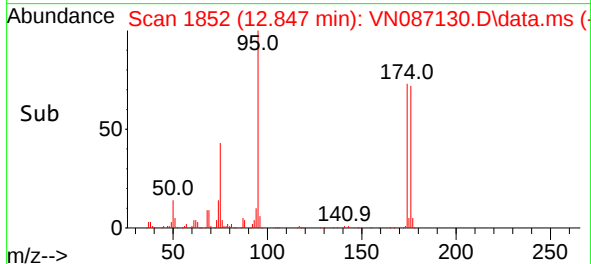
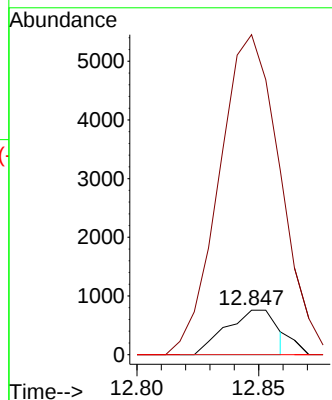
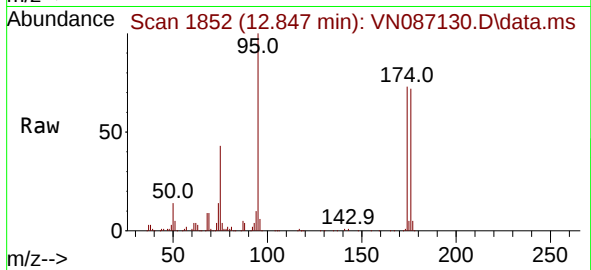
Tgt Ion:173 Resp: 1100

Ion Ratio Lower Upper

173 100

175 791.5 24.1 72.4#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.006 min

Lab File: VN087130.D

Acq: 20 Jun 2025 12:03

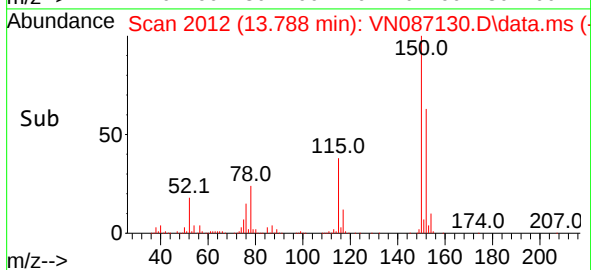
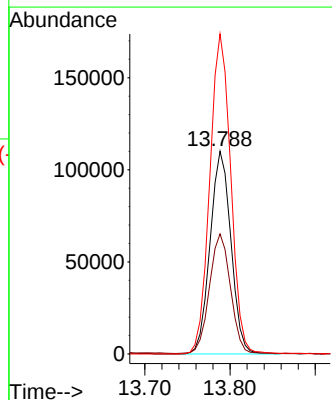
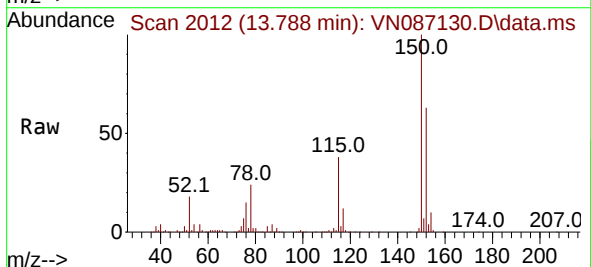
Tgt Ion:152 Resp: 187191

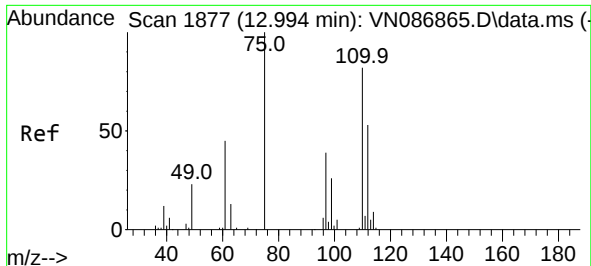
Ion Ratio Lower Upper

152 100

115 59.4 30.1 90.5

150 158.7 0.0 345.0

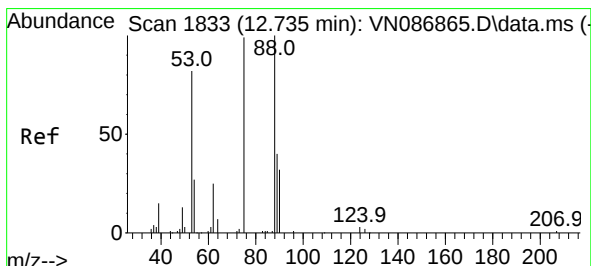
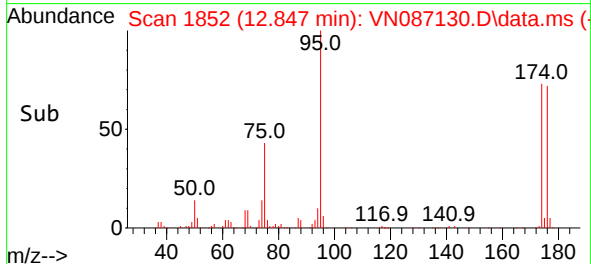
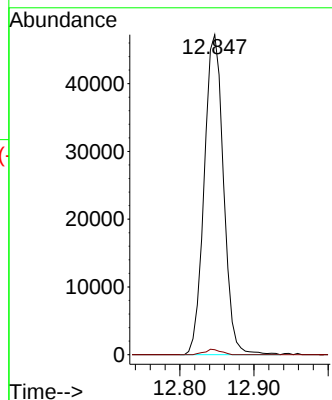
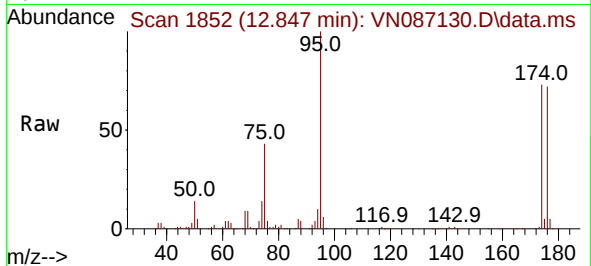




#76
1,2,3-Trichloropropane
Concen: 19.183 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN087130.D
Acq: 20 Jun 2025 12:03

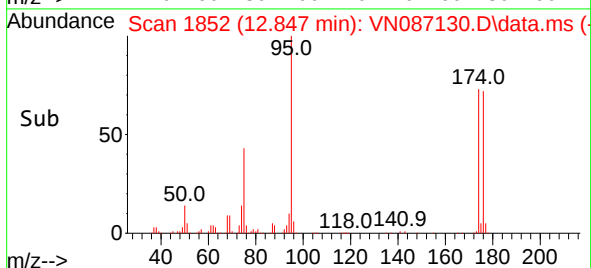
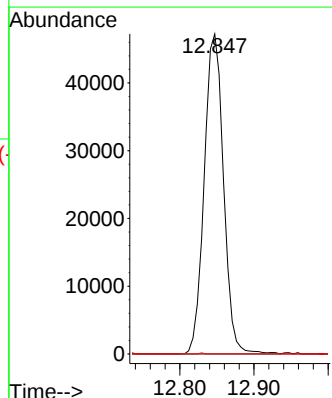
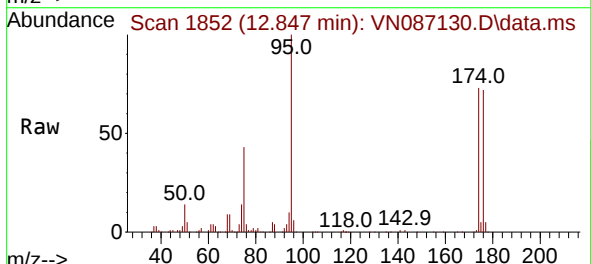
Instrument :
MSVOA_N
ClientSampleId :
3897

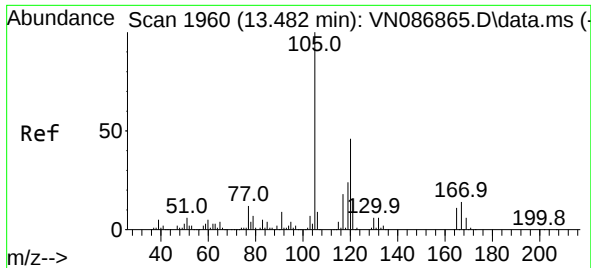
Tgt Ion: 75 Resp: 85357
Ion Ratio Lower Upper
75 100
77 1.4 79.3 237.9#



#81
trans-1,4-Dichloro-2-butene
Concen: 44.159 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN087130.D
Acq: 20 Jun 2025 12:03

Tgt Ion: 75 Resp: 85357
Ion Ratio Lower Upper
75 100
53 0.0 66.6 99.8#
89 0.1 36.7 55.1#





#84
 1,2,4-Trimethylbenzene
 Concen: 0.464 ug/l
 RT: 13.476 min Scan# 1959
 Delta R.T. -0.006 min
 Lab File: VN087130.D
 Acq: 20 Jun 2025 12:03

Instrument :
 MSVOA_N
 ClientSampleId :
 3897

Tgt Ion:105 Resp: 5237
 Ion Ratio Lower Upper
 105 100
 120 46.2 23.2 69.6

