

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081325\
 Data File : VN087549.D
 Acq On : 13 Aug 2025 20:24
 Operator : JC\MD
 Sample : Q2838-08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 14 04:08:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 17 02:56:13 2025
 Response via : Initial Calibration

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

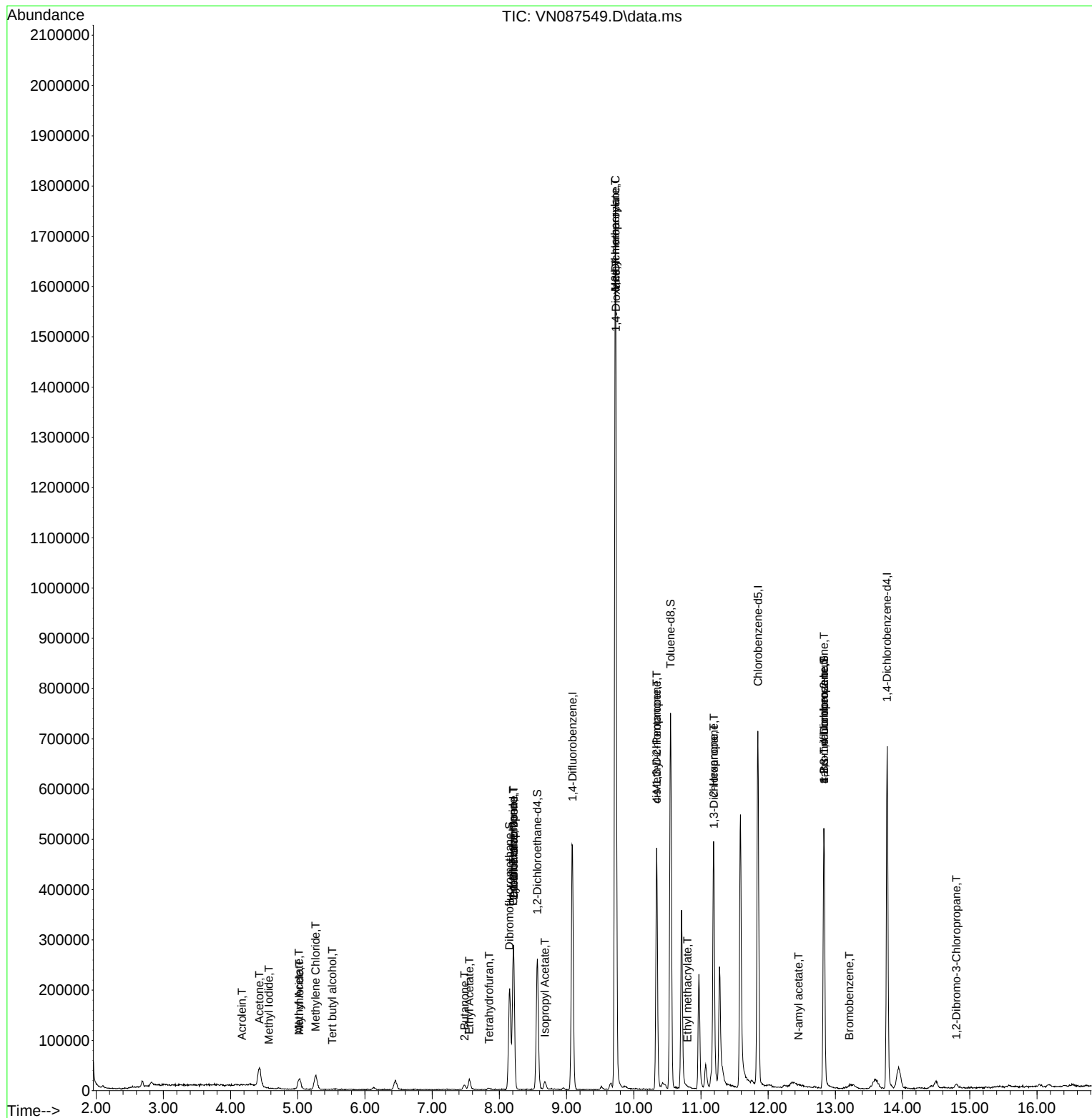
Internal Standards						
1) Pentafluorobenzene	8.206	168	192055	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.088	114	400540	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	367362	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	165090	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	214880	65.939	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 131.880%#	
35) Dibromofluoromethane	8.147	113	140276	50.771	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 101.540%	
50) Toluene-d8	10.547	98	493980	50.121	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 100.240%	
62) 4-Bromofluorobenzene	12.829	95	181798	49.928	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 99.860%	
Target Compounds						
					Qvalue	
10) Methyl Iodide	4.571	142	73	5.664	ug/l #	40
11) Tert butyl alcohol	5.512	59	299	0.483	ug/l #	80
13) Acrolein	4.171	56	602	1.212	ug/l #	1
14) Allyl chloride	5.024	41	964	0.243	ug/l #	47
16) Acetone	4.430	43	72761	47.620	ug/l	91
18) Methyl Acetate	5.018	43	48819	12.717	ug/l	99
20) Methylene Chloride	5.265	84	20531	7.403	ug/l #	92
25) 2-Butanone	7.483	43	14369	6.086	ug/l	93
29) Tetrahydrofuran	7.847	42	2206	1.438	ug/l #	77
31) Cyclohexane	8.212	56	5404	1.349	ug/l #	1
36) 1,1-Dichloropropene	8.212	75	20373	5.581	ug/l #	47
37) Ethyl Acetate	7.553	43	30518	5.789	ug/l	99
38) Carbon Tetrachloride	8.206	117	22862	5.685	ug/l #	13
43) Isopropyl Acetate	8.677	43	19152	2.340	ug/l #	82
45) 1,2-Dichloropropane	9.729	63	2509	0.837	ug/l #	41
48) Methyl methacrylate	9.724	41	178101	48.341	ug/l #	47
49) 1,4-Dioxane	9.735	88	54	0.957	ug/l #	1
51) 4-Methyl-2-Pentanone	10.341	43	191233	36.946	ug/l #	47
54) cis-1,3-Dichloropropene	10.341	75	80125	16.954	ug/l #	68
56) Ethyl methacrylate	10.800	69	96	0.655	ug/l #	24
57) 1,3-Dichloropropane	11.194	76	5376	1.071	ug/l #	44
59) 2-Hexanone	11.188	43	100753	29.339	ug/l #	45
74) N-amyl acetate	12.453	43	1902	0.441	ug/l #	53
76) 1,2,3-Trichloropropane	12.829	75	108399	29.281	ug/l #	1
77) Bromobenzene	13.206	156	2219	0.823	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	108399	80.118	ug/l #	8
92) 1,2-Dibromo-3-Chloropr...	14.800	75	472	0.460	ug/l	70

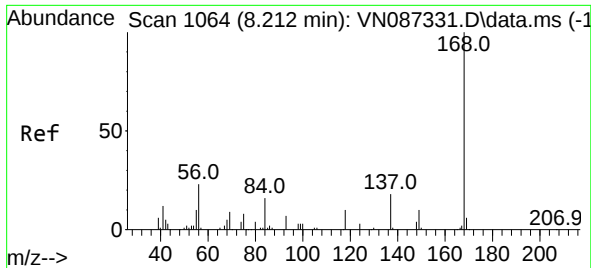
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081325\
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MSVOA_N
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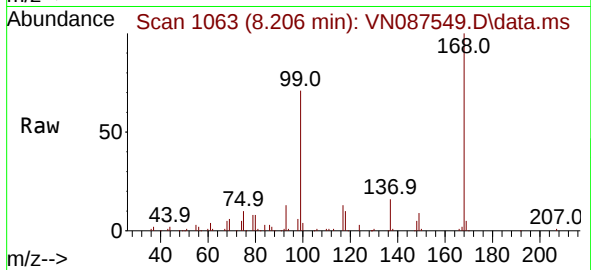
Quant Time: Aug 14 04:08:54 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration



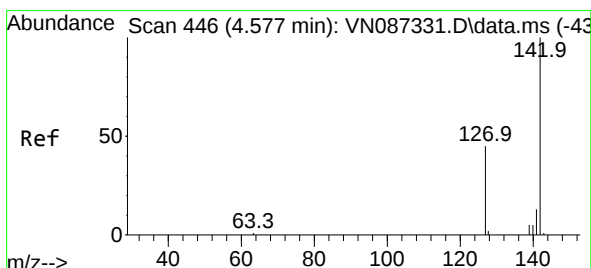
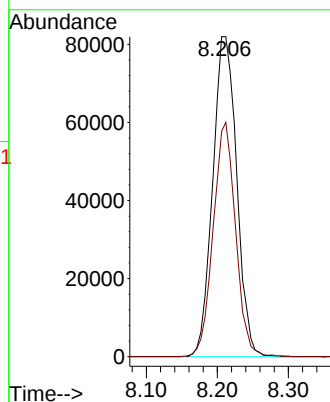
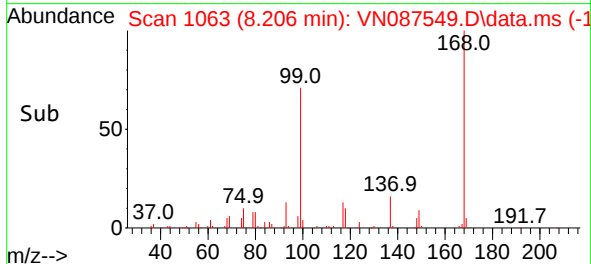


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. -0.006 min
Lab File: VN087549.D
Acq: 13 Aug 2025 20:24

Instrument :
MSVOA_N
ClientSampleId :

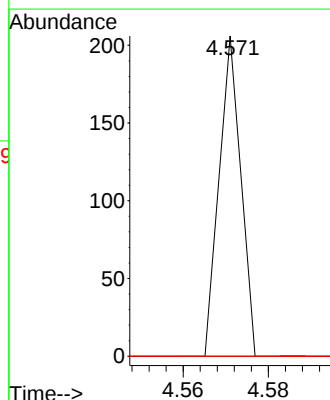
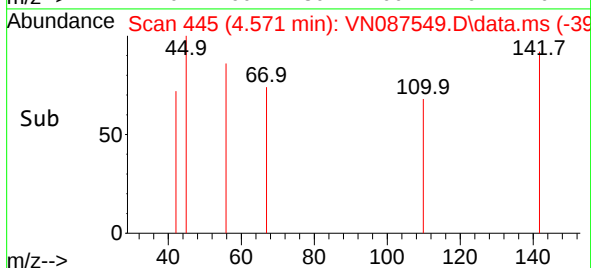
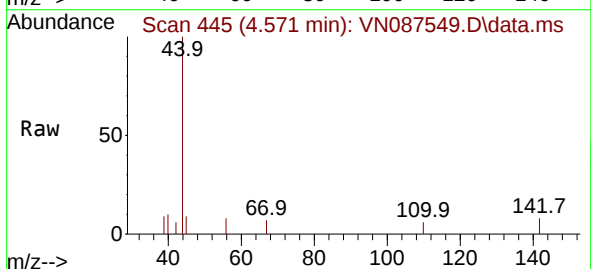


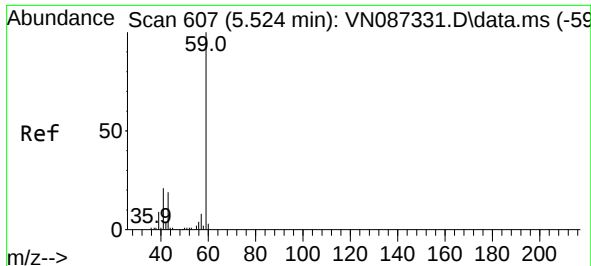
Tgt Ion:168 Resp: 192055
Ion Ratio Lower Upper
168 100
99 70.5 47.9 71.9



#10
Methyl Iodide
Concen: 5.664 ug/l
RT: 4.571 min Scan# 445
Delta R.T. -0.006 min
Lab File: VN087549.D
Acq: 13 Aug 2025 20:24

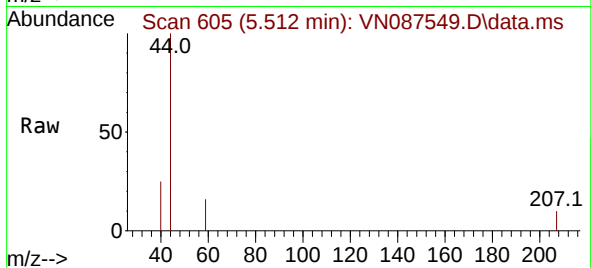
Tgt Ion:142 Resp: 73
Ion Ratio Lower Upper
142 100
127 0.0 35.7 53.5#
141 0.0 10.4 15.6#



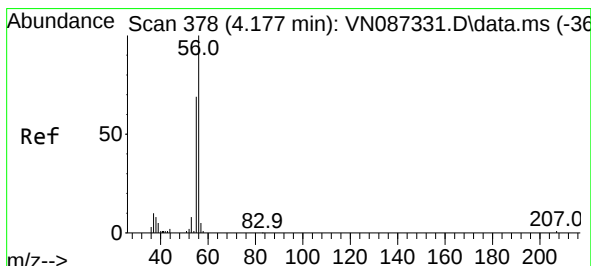
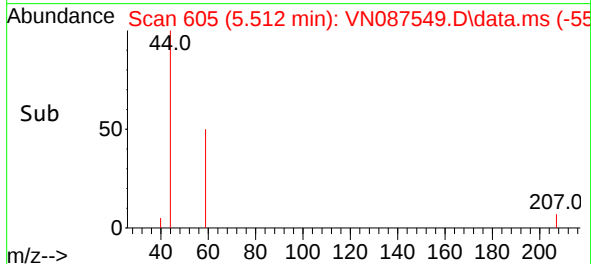
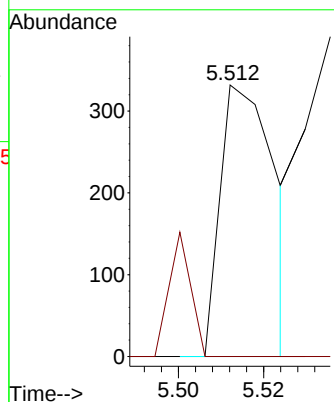


#11
Tert butyl alcohol
Concen: 0.483 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.012 min
Lab File: VN087549.D
Acq: 13 Aug 2025 20:24

Instrument :
MSVOA_N
ClientSampleId :

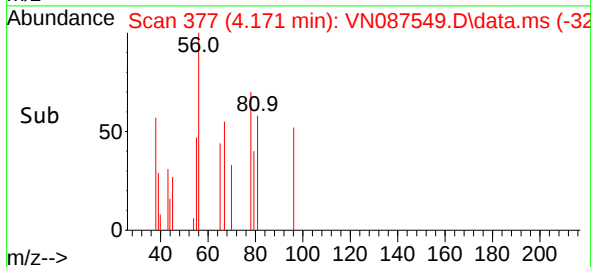
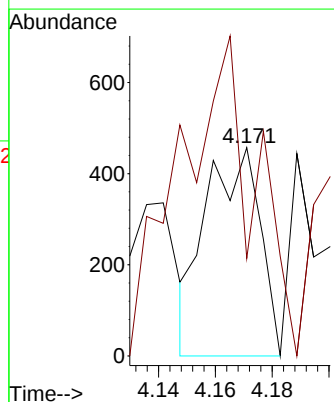
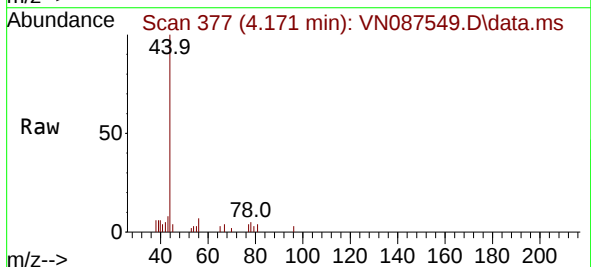


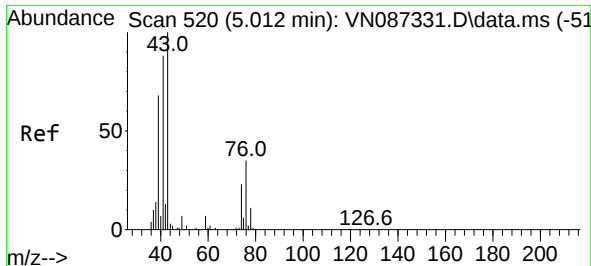
Tgt Ion: 59 Resp: 299
Ion Ratio Lower Upper
59 100
57 18.1 8.3 12.5#



#13
Acrolein
Concen: 1.212 ug/l
RT: 4.171 min Scan# 377
Delta R.T. -0.006 min
Lab File: VN087549.D
Acq: 13 Aug 2025 20:24

Tgt Ion: 56 Resp: 602
Ion Ratio Lower Upper
56 100
55 215.1 56.2 84.4#





#14

Allyl chloride

Concen: 0.243 ug/l

RT: 5.024 min Scan# 51

Delta R.T. 0.012 min

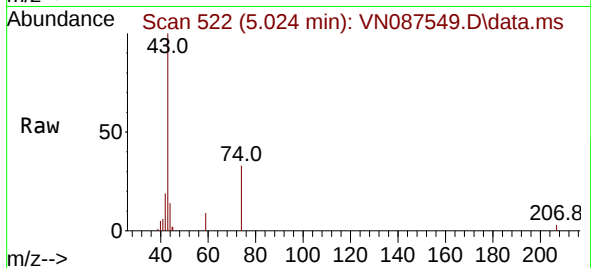
Lab File: VN087549.D

Acq: 13 Aug 2025 20:24

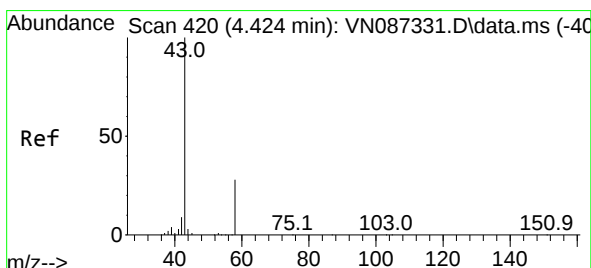
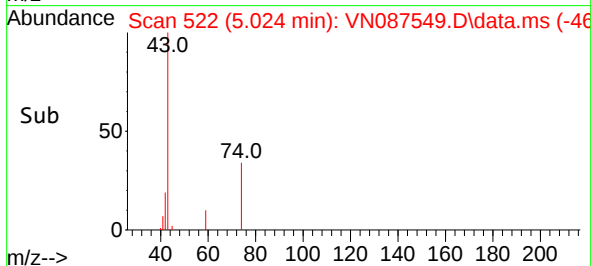
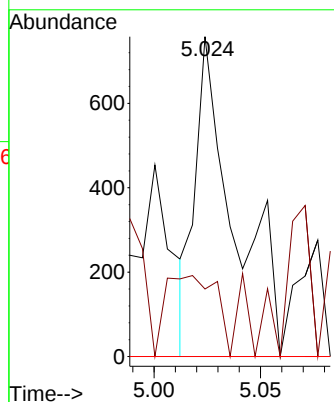
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	41	Resp:	964
Ion	Ratio	Lower	Upper
41	100		
39	33.0	59.0	88.6#
76	0.0	28.7	43.1#



#16

Acetone

Concen: 47.620 ug/l

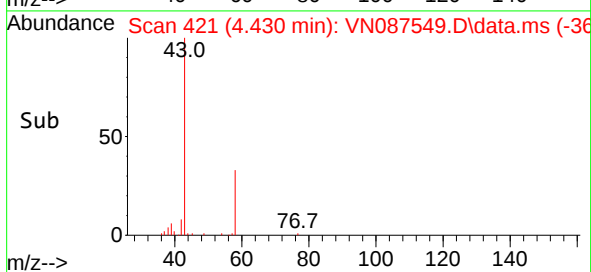
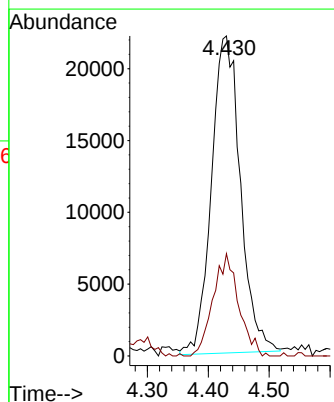
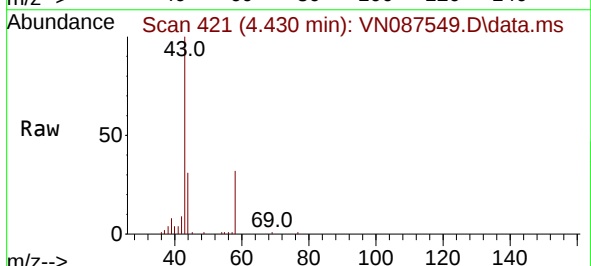
RT: 4.430 min Scan# 421

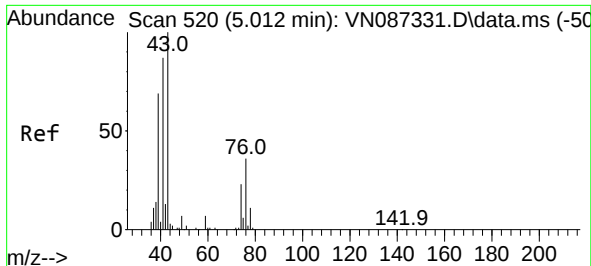
Delta R.T. 0.006 min

Lab File: VN087549.D

Acq: 13 Aug 2025 20:24

Tgt Ion:	43	Resp:	72761
Ion	Ratio	Lower	Upper
43	100		
58	32.5	22.3	33.5

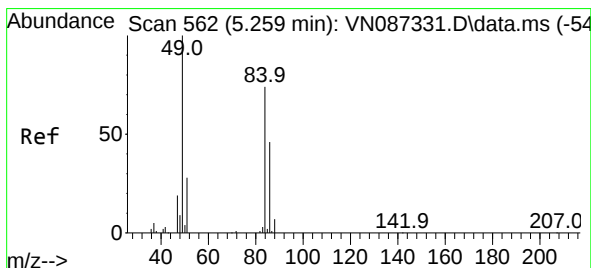
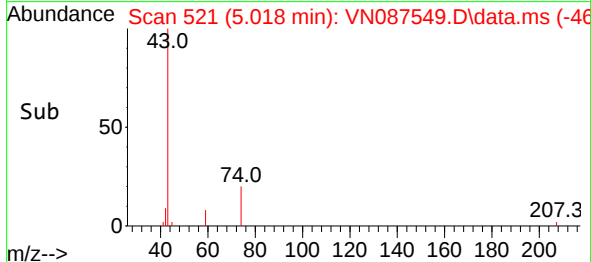
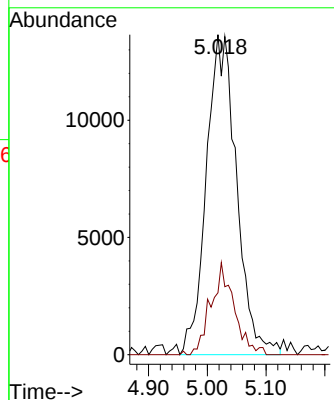
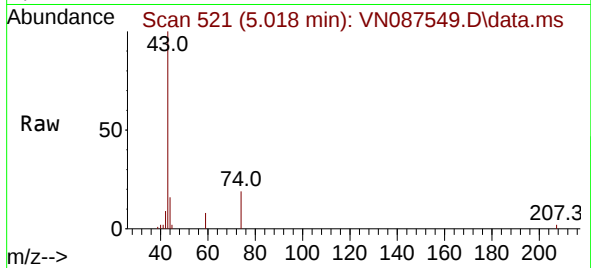




#18
Methyl Acetate
Concen: 12.717 ug/l
RT: 5.018 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN087549.D
Acq: 13 Aug 2025 20:24

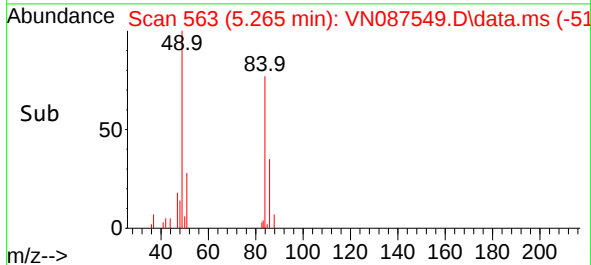
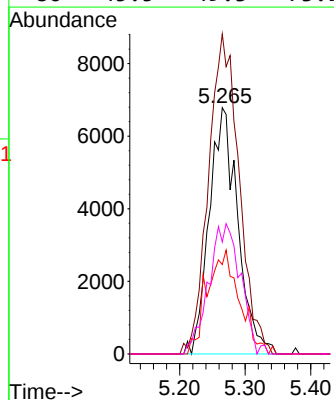
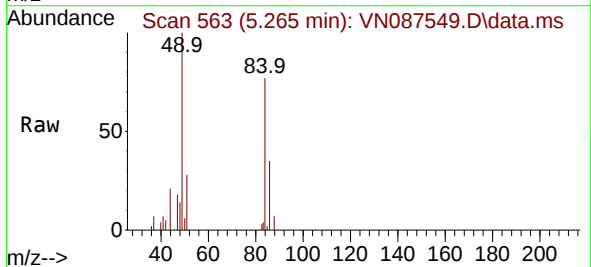
Instrument :
MSVOA_N
ClientSampleId :

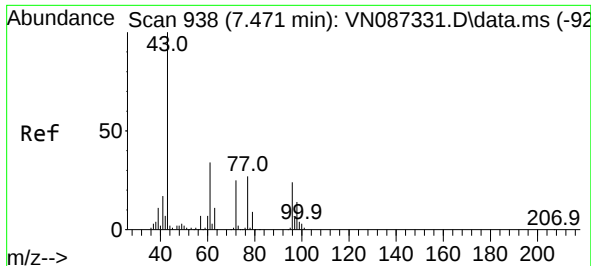
Tgt Ion: 43 Resp: 48819
Ion Ratio Lower Upper
43 100
74 22.0 17.8 26.6



#20
Methylene Chloride
Concen: 7.403 ug/l
RT: 5.265 min Scan# 563
Delta R.T. 0.006 min
Lab File: VN087549.D
Acq: 13 Aug 2025 20:24

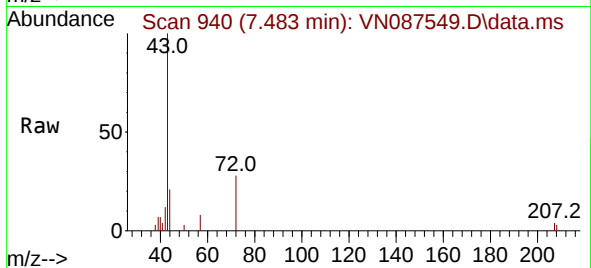
Tgt Ion: 84 Resp: 20531
Ion Ratio Lower Upper
84 100
49 129.9 107.5 161.3
51 36.3 30.2 45.2
86 45.5 49.3 73.9#



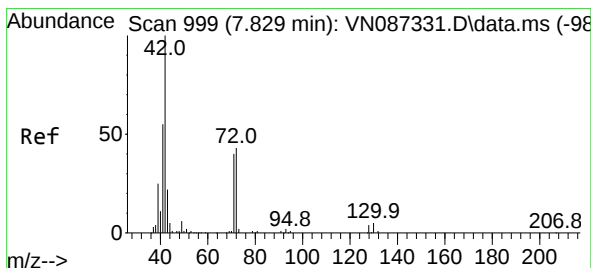
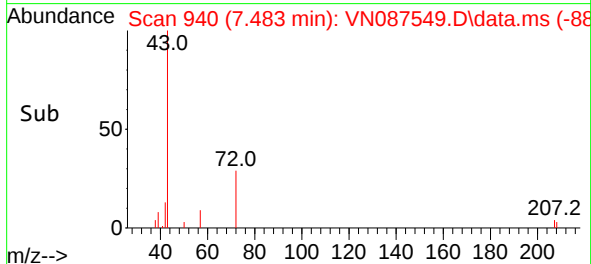
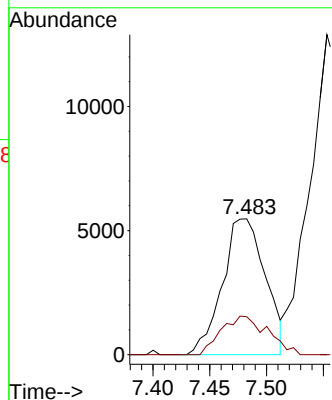


#25
2-Butanone
Concen: 6.086 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.012 min
Lab File: VN087549.D
Acq: 13 Aug 2025 20:24

Instrument :
MSVOA_N
ClientSampleId :

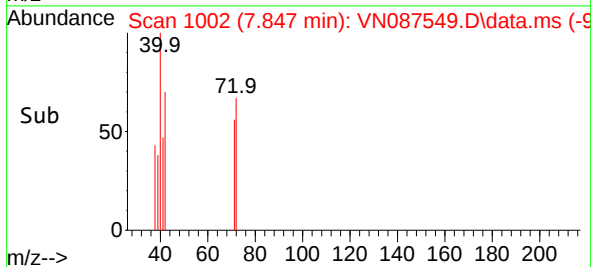
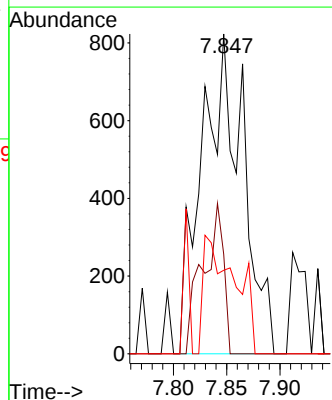
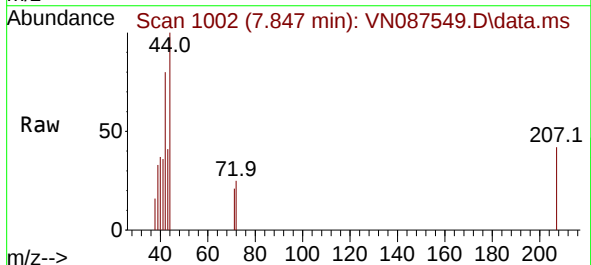


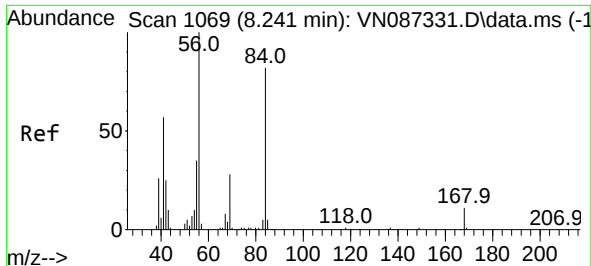
Tgt Ion: 43 Resp: 14369
Ion Ratio Lower Upper
43 100
72 27.9 19.6 29.4



#29
Tetrahydrofuran
Concen: 1.438 ug/l
RT: 7.847 min Scan# 1002
Delta R.T. 0.018 min
Lab File: VN087549.D
Acq: 13 Aug 2025 20:24

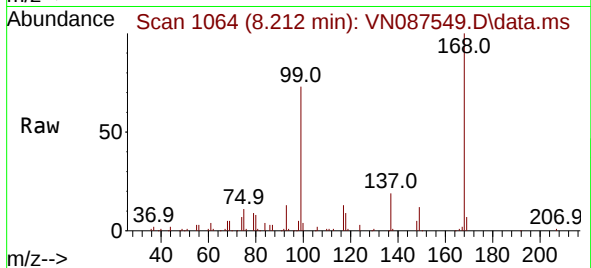
Tgt Ion: 42 Resp: 2206
Ion Ratio Lower Upper
42 100
72 23.7 33.4 50.0#
71 28.6 31.2 46.8#



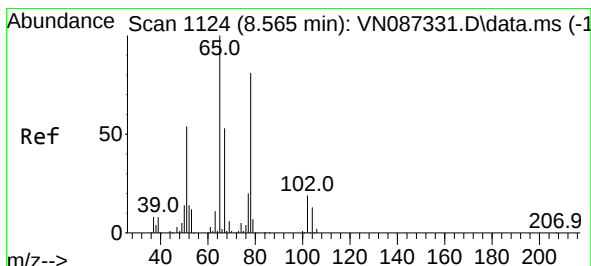
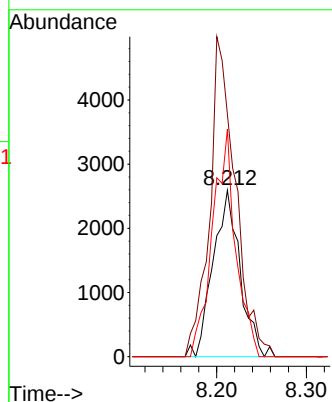
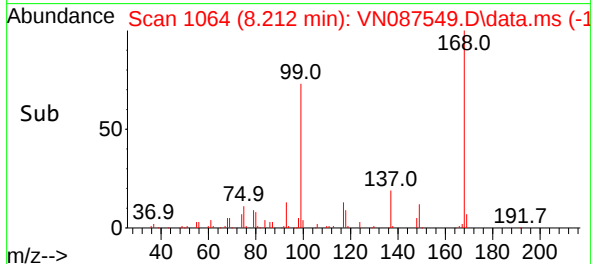


#31
Cyclohexane
Concen: 1.349 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.029 min
Lab File: VN087549.D
Acq: 13 Aug 2025 20:24

Instrument :
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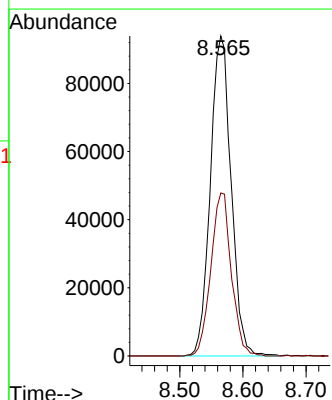
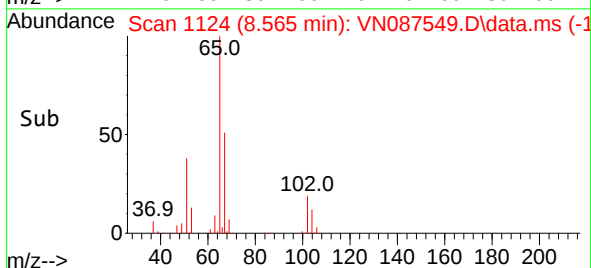
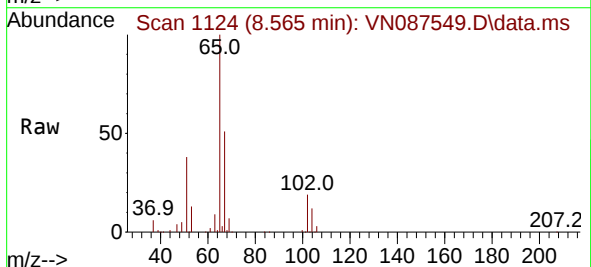


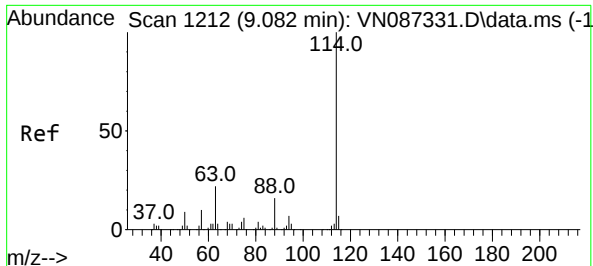
Tgt Ion	Ratio	Lower	Upper
56	100		
69	145.7	22.7	34.1#
84	136.7	65.8	98.6#



#33
1,2-Dichloroethane-d4
Concen: 65.939 ug/l
RT: 8.565 min Scan# 1124
Delta R.T. 0.000 min
Lab File: VN087549.D
Acq: 13 Aug 2025 20:24

Tgt Ion	Ratio	Lower	Upper
65	100		
67	50.2	0.0	104.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.088 min Scan# 114

Delta R.T. 0.006 min

Lab File: VN087549.D

Acq: 13 Aug 2025 20:24

Instrument :

MSVOA_N

ClientSampleId :

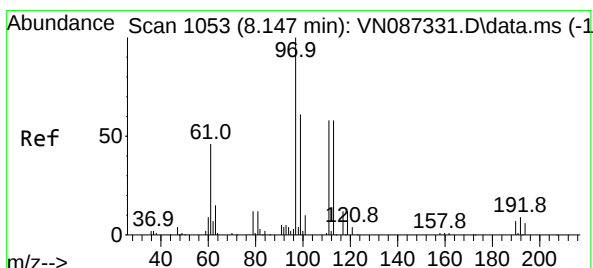
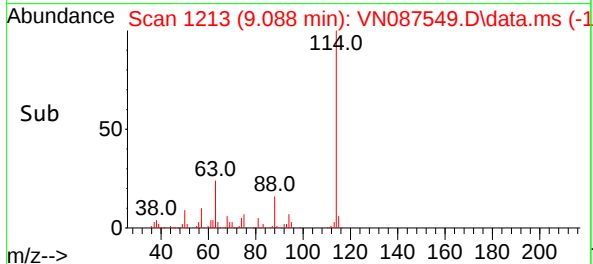
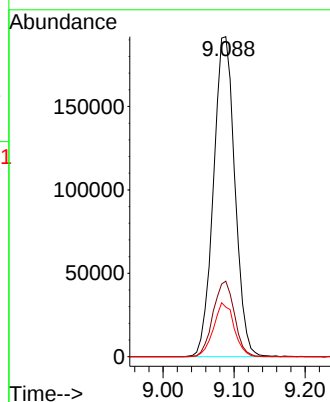
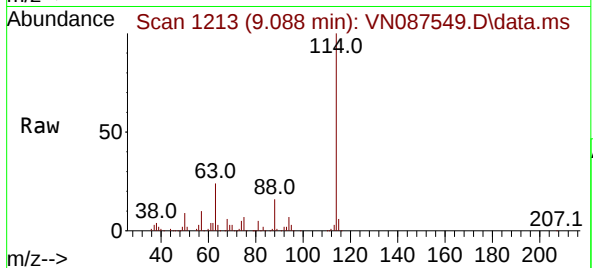
Tgt Ion:114 Resp: 400540

Ion Ratio Lower Upper

114 100

63 23.6 0.0 44.6

88 15.5 0.0 32.8



#35

Dibromofluoromethane

Concen: 50.771 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. 0.000 min

Lab File: VN087549.D

Acq: 13 Aug 2025 20:24

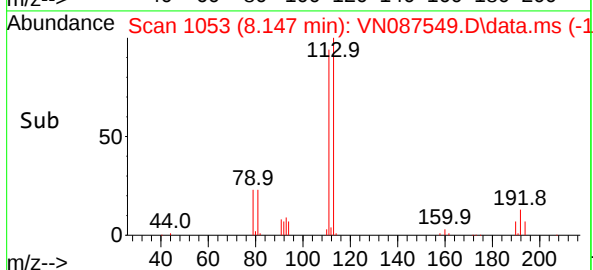
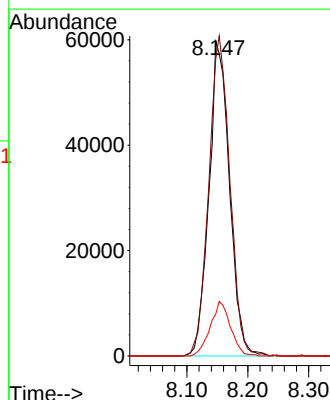
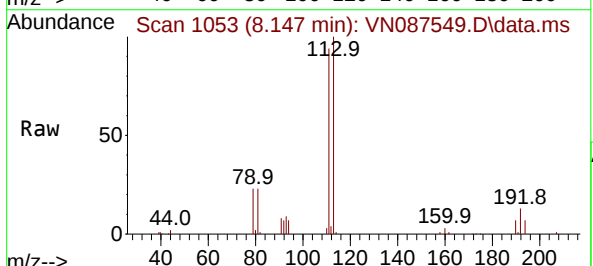
Tgt Ion:113 Resp: 140276

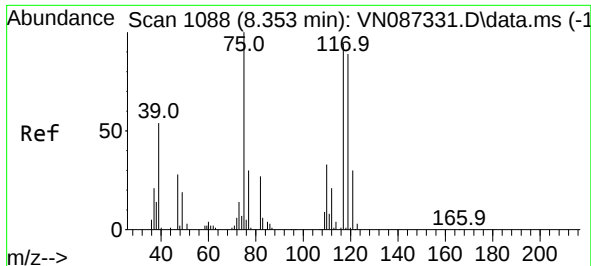
Ion Ratio Lower Upper

113 100

111 104.0 82.5 123.7

192 17.0 13.7 20.5





#36

1,1-Dichloropropene

Concen: 5.581 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.141 min

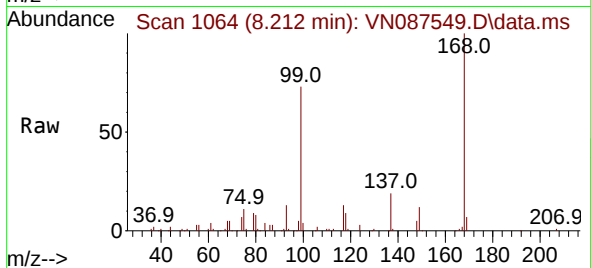
Lab File: VN087549.D

Acq: 13 Aug 2025 20:24

Instrument :

MSVOA_N

ClientSampleId :



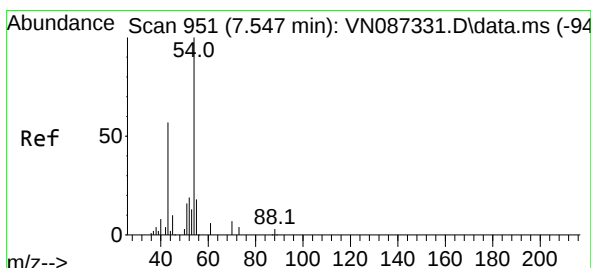
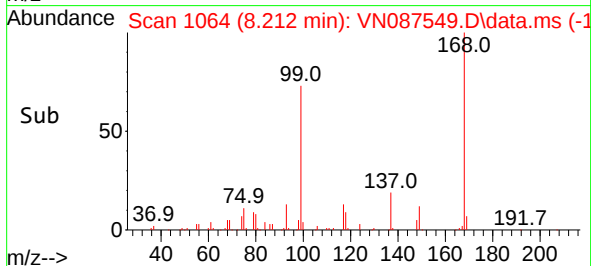
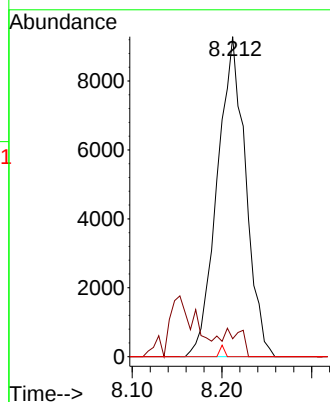
Tgt Ion: 75 Resp: 20373

Ion Ratio Lower Upper

75 100

110 4.9 16.7 50.1#

77 0.6 25.2 37.8#



#37

Ethyl Acetate

Concen: 5.789 ug/l

RT: 7.553 min Scan# 952

Delta R.T. 0.006 min

Lab File: VN087549.D

Acq: 13 Aug 2025 20:24

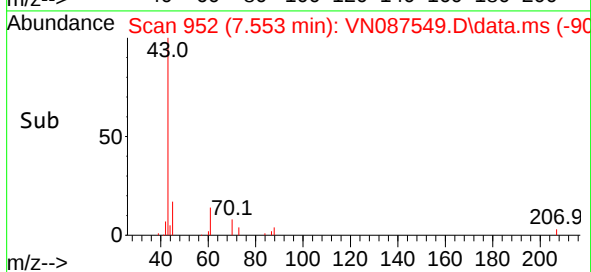
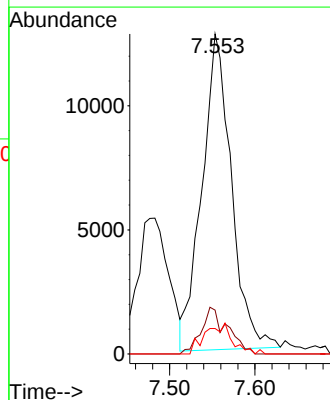
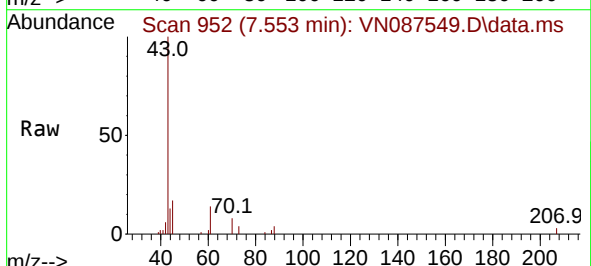
Tgt Ion: 43 Resp: 30518

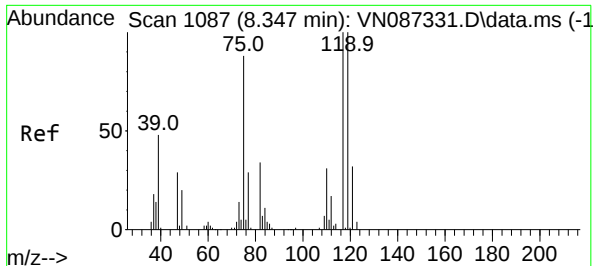
Ion Ratio Lower Upper

43 100

61 13.2 10.9 16.3

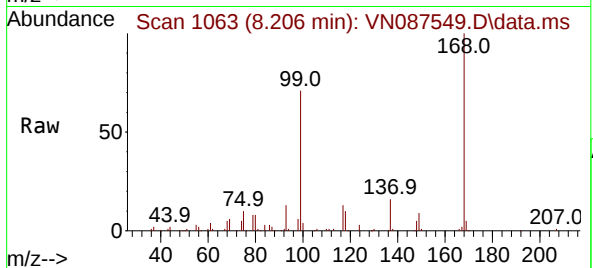
70 9.1 7.4 11.0



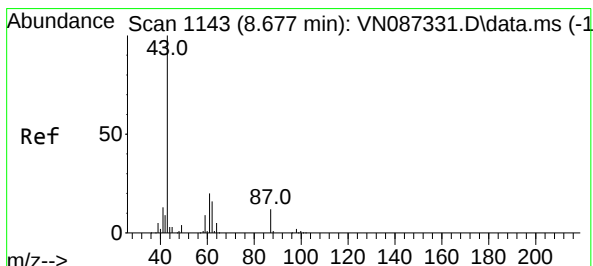
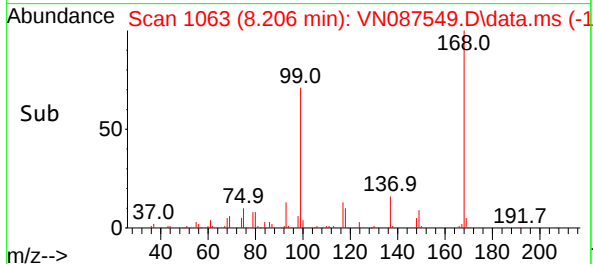
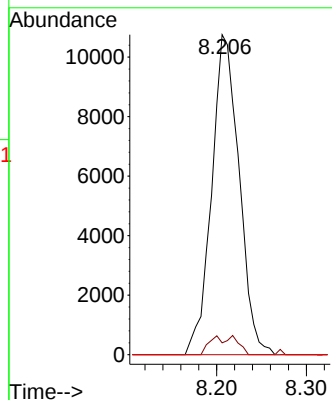


#38
Carbon Tetrachloride
Concen: 5.685 ug/l
RT: 8.206 min Scan# 1106
Delta R.T. -0.141 min
Lab File: VN087549.D
Acq: 13 Aug 2025 20:24

Instrument :
MSVOA_N
ClientSampleId :

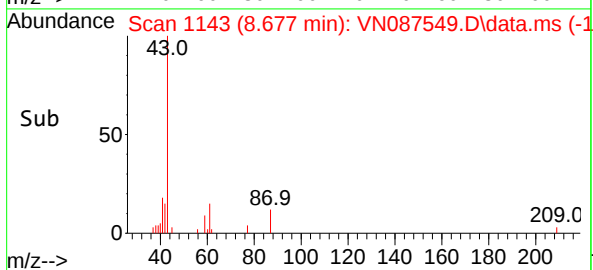
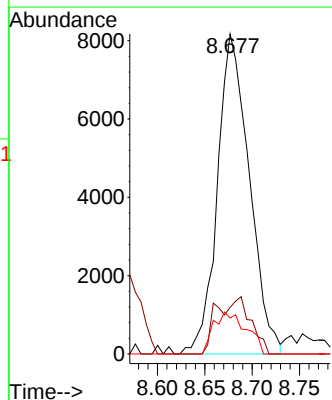
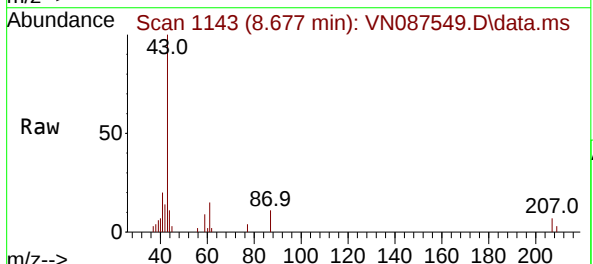


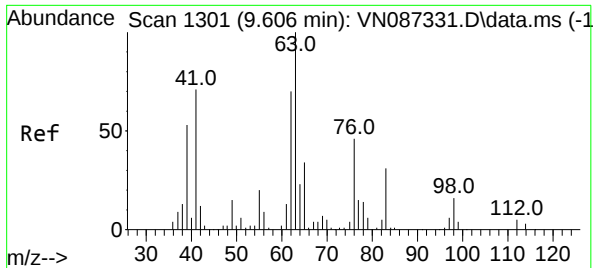
Tgt Ion: 117 Resp: 22862
Ion Ratio Lower Upper
117 100
119 3.7 80.2 120.2#
121 0.0 25.4 38.2#



#43
Isopropyl Acetate
Concen: 2.340 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN087549.D
Acq: 13 Aug 2025 20:24

Tgt Ion: 43 Resp: 19152
Ion Ratio Lower Upper
43 100
61 12.1 19.8 29.8#
87 13.3 9.8 14.6





#45

1,2-Dichloropropane

Concen: 0.837 ug/l

RT: 9.729 min Scan# 1

Delta R.T. 0.123 min

Lab File: VN087549.D

Acq: 13 Aug 2025 20:24

Instrument :

MSVOA_N

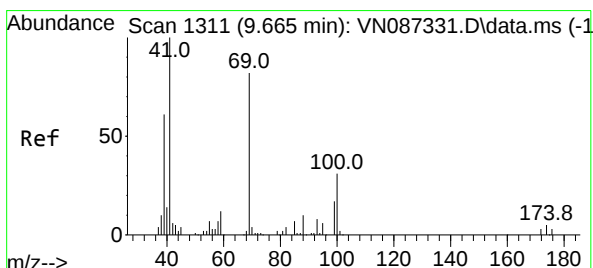
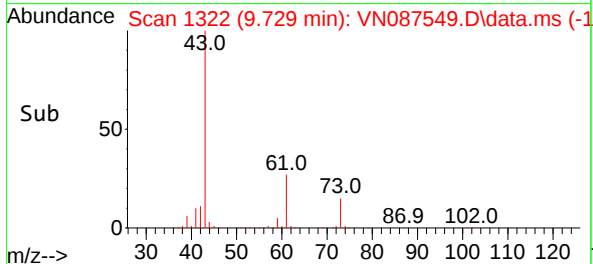
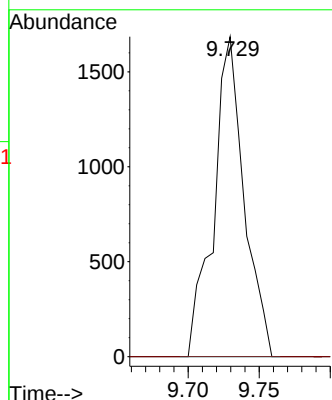
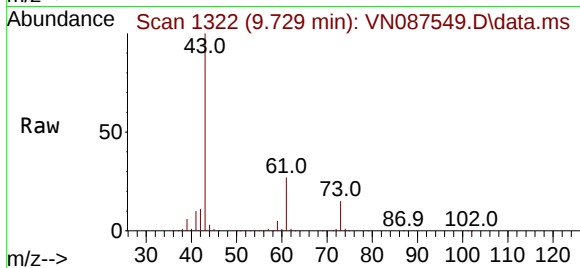
ClientSampleId :

Tgt Ion: 63 Resp: 2509

Ion Ratio Lower Upper

63 100

65 0.0 27.0 40.4#



#48

Methyl methacrylate

Concen: 48.341 ug/l

RT: 9.724 min Scan# 1321

Delta R.T. 0.059 min

Lab File: VN087549.D

Acq: 13 Aug 2025 20:24

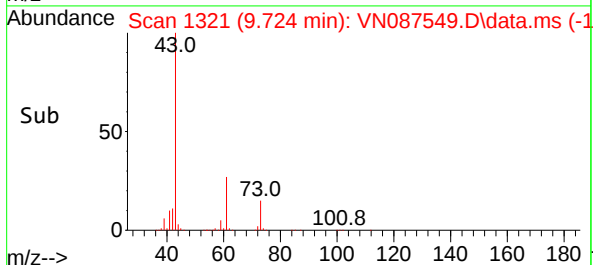
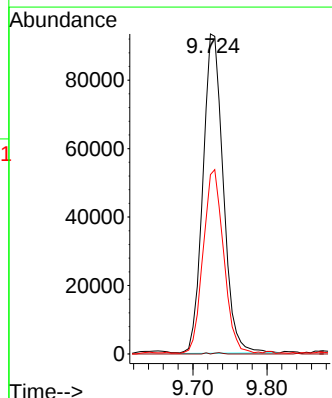
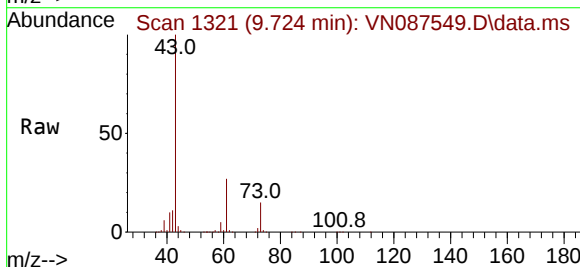
Tgt Ion: 41 Resp: 178101

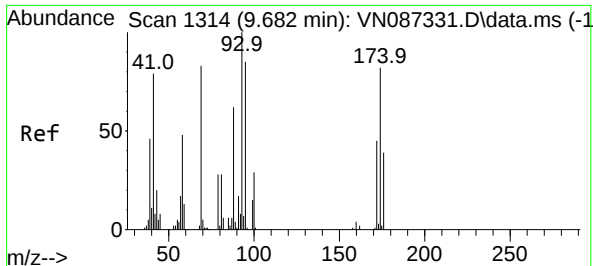
Ion Ratio Lower Upper

41 100

69 0.2 64.1 96.1#

39 57.8 45.5 68.3





#49

1,4-Dioxane

Concen: 0.957 ug/l

RT: 9.735 min Scan# 11

Delta R.T. 0.053 min

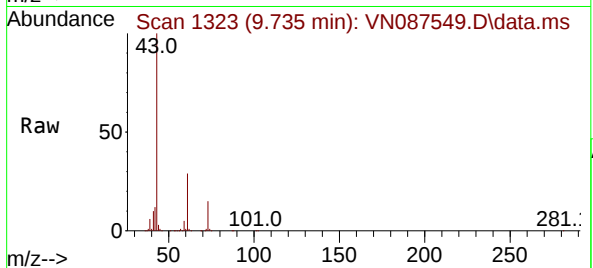
Lab File: VN087549.D

Acq: 13 Aug 2025 20:24

Instrument :

MSVOA_N

ClientSampleId :



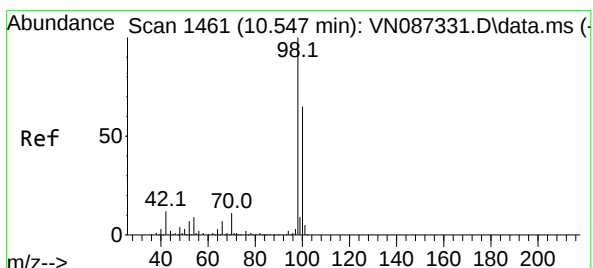
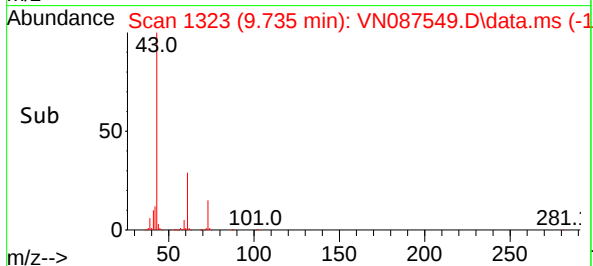
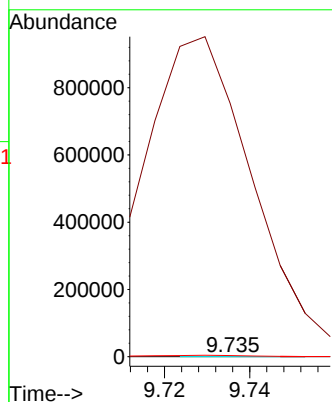
Tgt Ion: 88 Resp: 54

Ion Ratio Lower Upper

88 100

43 3308251.9 0.0 0.0#

58 14818.5 61.1 91.7#



#50

Toluene-d8

Concen: 50.121 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. 0.000 min

Lab File: VN087549.D

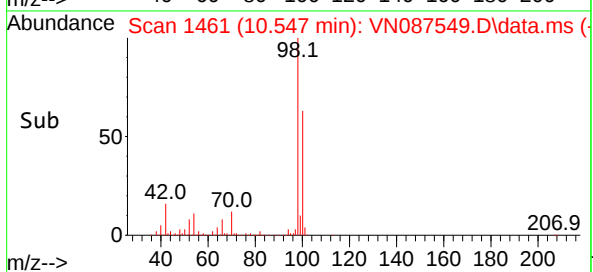
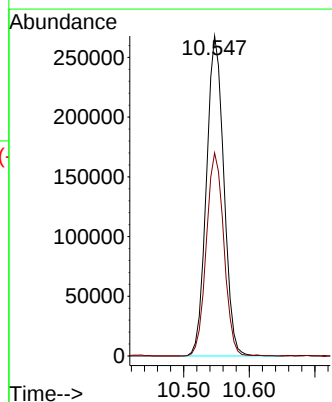
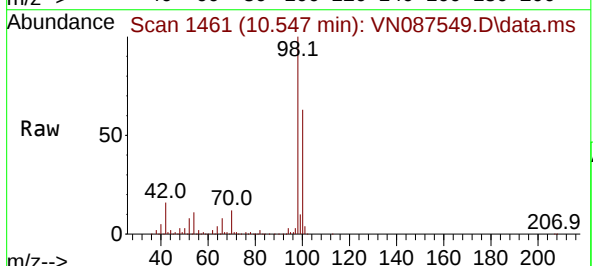
Acq: 13 Aug 2025 20:24

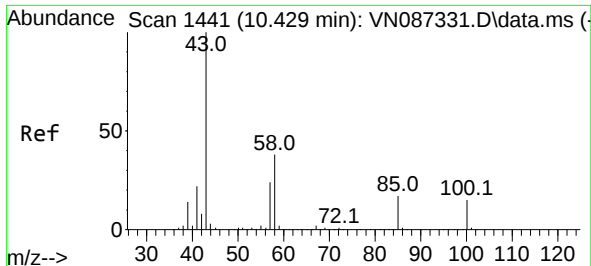
Tgt Ion: 98 Resp: 493980

Ion Ratio Lower Upper

98 100

100 64.0 52.1 78.1

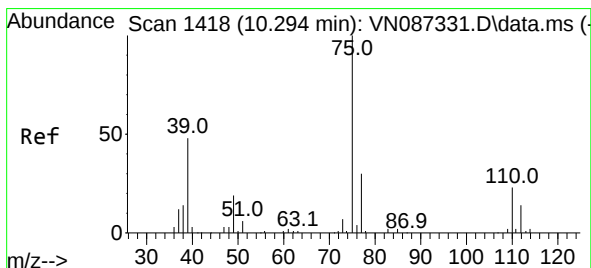
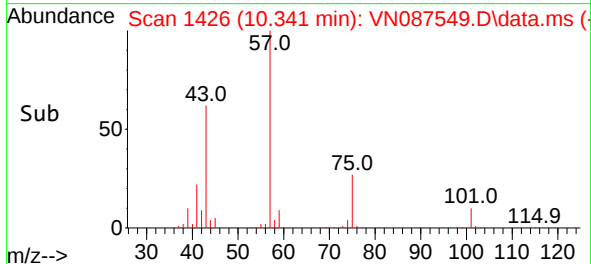
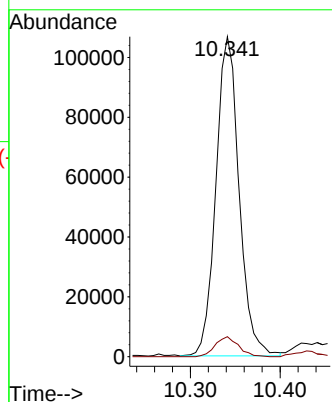
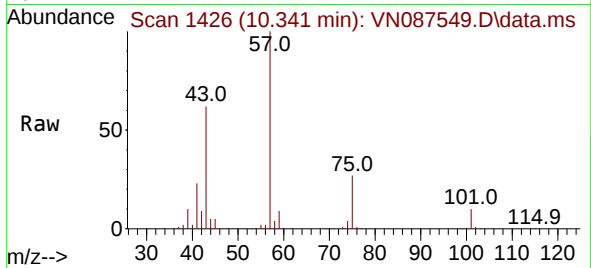




#51
4-Methyl-2-Pentanone
Concen: 36.946 ug/l
RT: 10.341 min Scan# 1426
Delta R.T. -0.088 min
Lab File: VN087549.D
Acq: 13 Aug 2025 20:24

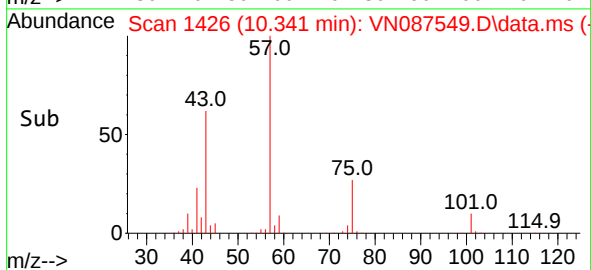
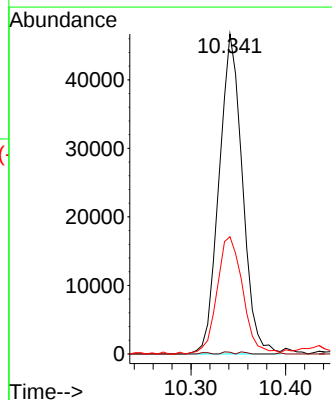
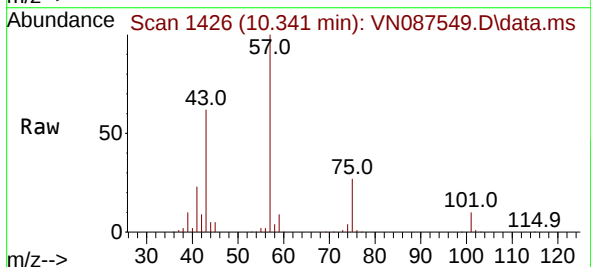
Instrument :
MSVOA_N
ClientSampleId :

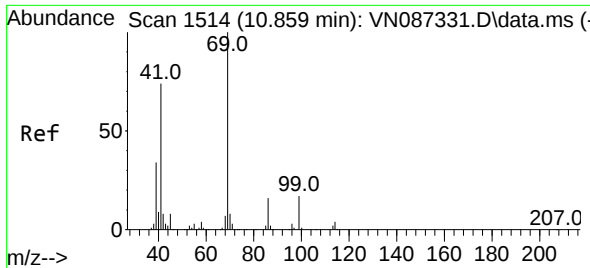
Tgt Ion: 43 Resp: 191233
Ion Ratio Lower Upper
43 100
58 6.3 30.8 46.2#



#54
cis-1,3-Dichloropropene
Concen: 16.954 ug/l
RT: 10.341 min Scan# 1426
Delta R.T. 0.047 min
Lab File: VN087549.D
Acq: 13 Aug 2025 20:24

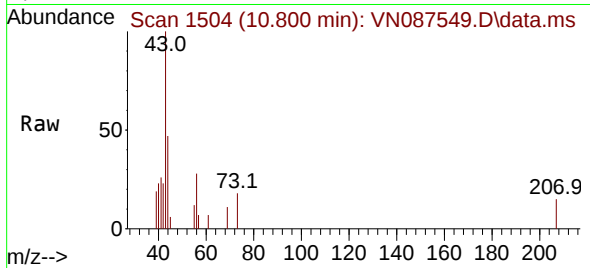
Tgt Ion: 75 Resp: 80125
Ion Ratio Lower Upper
75 100
77 0.6 24.2 36.2#
39 36.2 38.4 57.6#



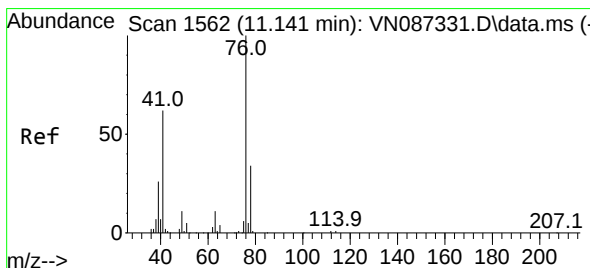
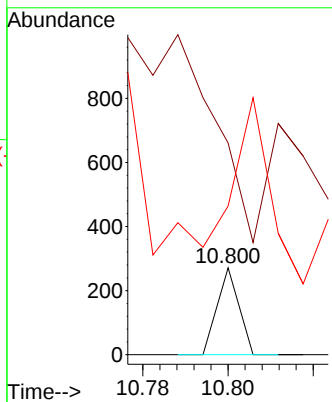
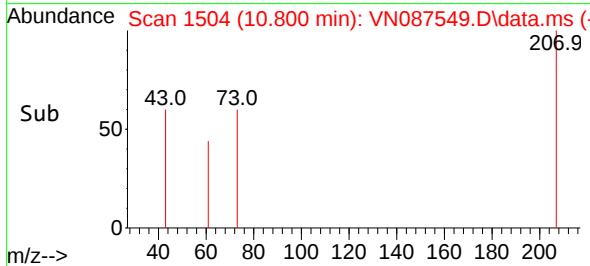


#56
Ethyl methacrylate
Concen: 0.655 ug/l
RT: 10.800 min Scan# 1514
Delta R.T. -0.059 min
Lab File: VN087549.D
Acq: 13 Aug 2025 20:24

Instrument :
MSVOA_N
ClientSampleId :

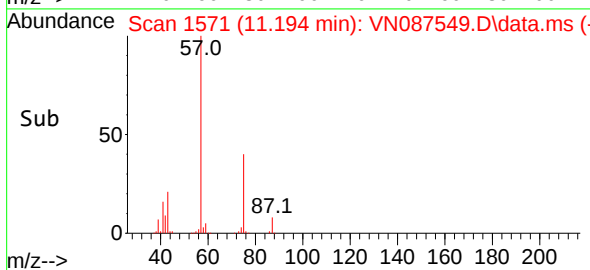
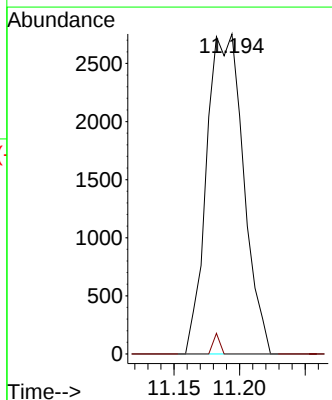
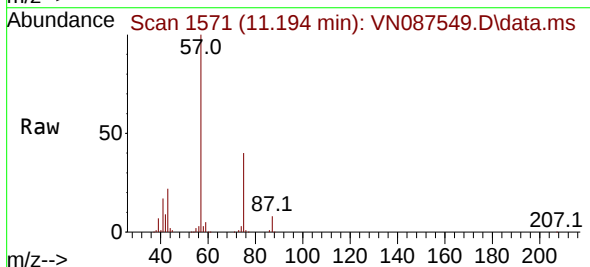


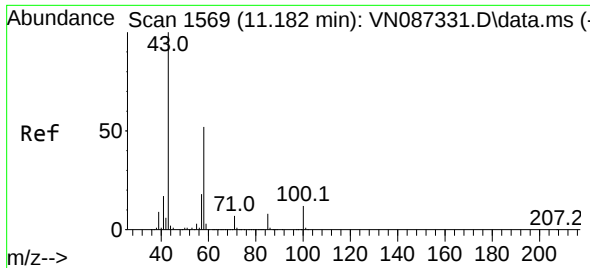
Tgt Ion: 69 Resp: 96
Ion Ratio Lower Upper
69 100
41 0.0 55.1 82.7#
39 0.0 27.9 41.9#



#57
1,3-Dichloropropane
Concen: 1.071 ug/l
RT: 11.194 min Scan# 1571
Delta R.T. 0.053 min
Lab File: VN087549.D
Acq: 13 Aug 2025 20:24

Tgt Ion: 76 Resp: 5376
Ion Ratio Lower Upper
76 100
78 1.2 26.0 39.0#

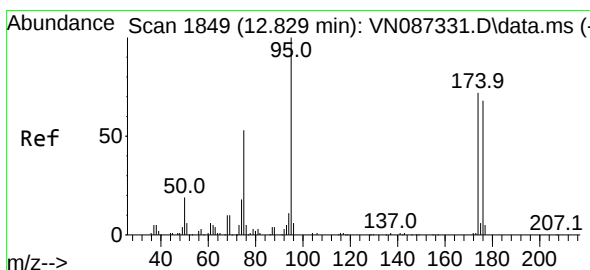
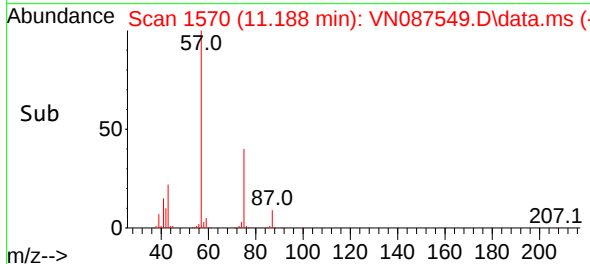
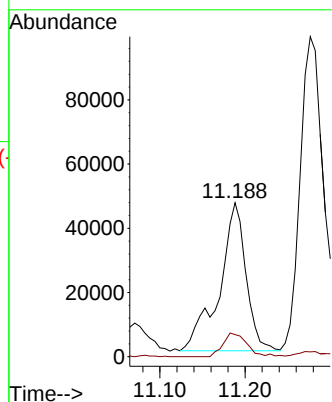
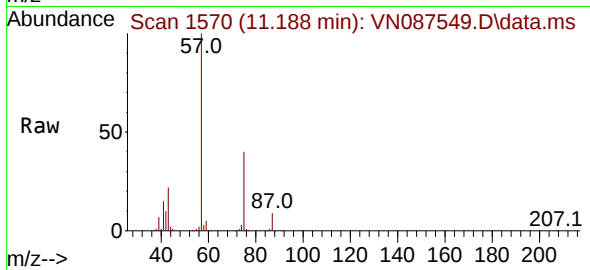




#59
2-Hexanone
Concen: 29.339 ug/l
RT: 11.188 min Scan# 1157
Delta R.T. 0.006 min
Lab File: VN087549.D
Acq: 13 Aug 2025 20:24

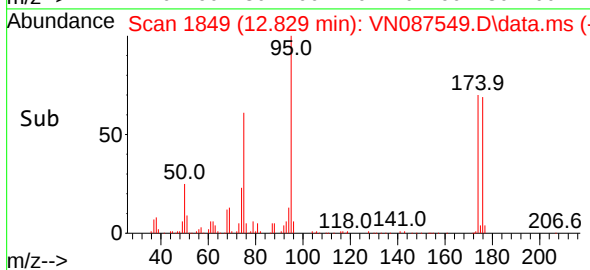
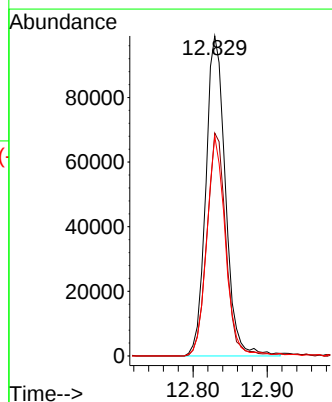
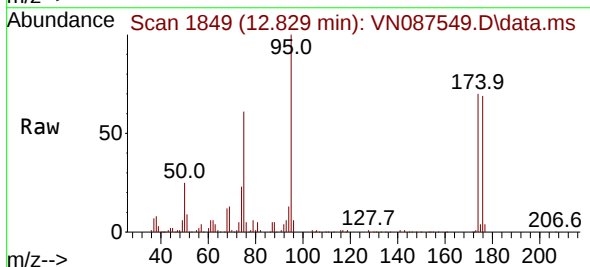
Instrument :
MSVOA_N
ClientSampleId :

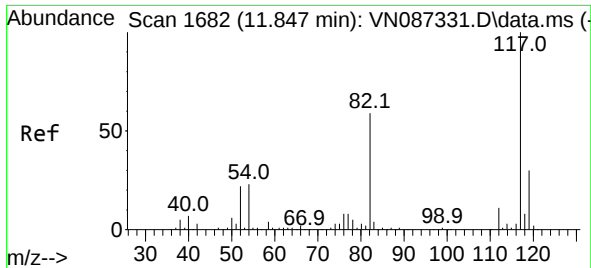
Tgt Ion: 43 Resp: 100753
Ion Ratio Lower Upper
43 100
58 14.4 26.7 80.0#



#62
4-Bromofluorobenzene
Concen: 49.928 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087549.D
Acq: 13 Aug 2025 20:24

Tgt Ion: 95 Resp: 181798
Ion Ratio Lower Upper
95 100
174 67.4 0.0 149.4
176 65.2 0.0 141.2

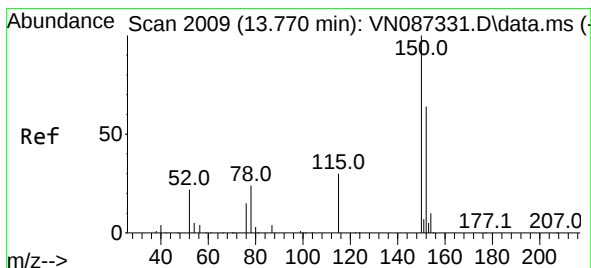
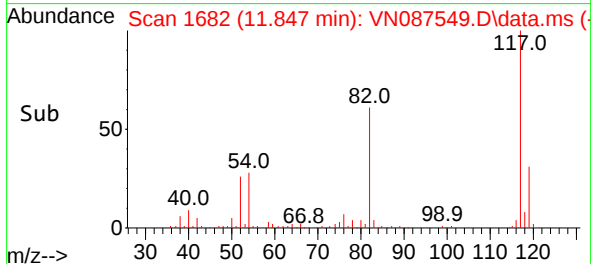
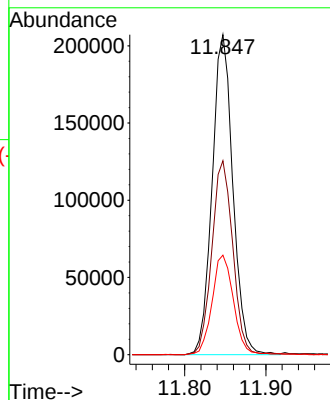
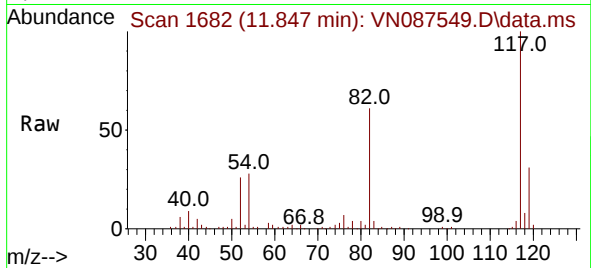




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN087549.D
Acq: 13 Aug 2025 20:24

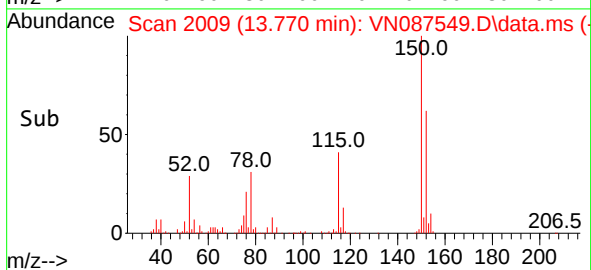
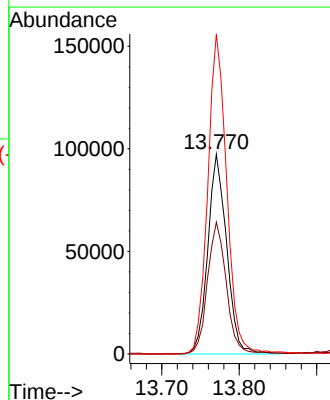
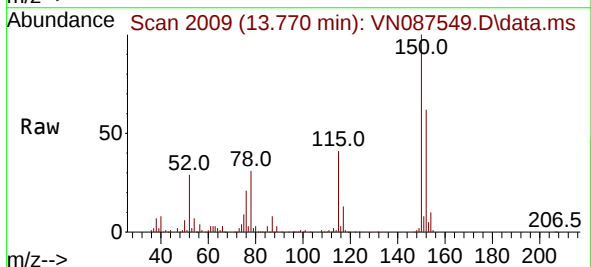
Instrument :
MSVOA_N
ClientSampleId :

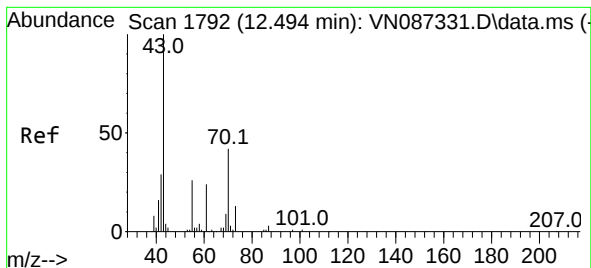
Tgt Ion:117 Resp: 367362
Ion Ratio Lower Upper
117 100
82 60.6 47.4 71.2
119 31.1 23.8 35.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN087549.D
Acq: 13 Aug 2025 20:24

Tgt Ion:152 Resp: 165090
Ion Ratio Lower Upper
152 100
115 66.4 31.1 93.5
150 161.5 0.0 349.0





#74

N-amy1 acetate

Concen: 0.441 ug/l

RT: 12.453 min Scan# 1

Delta R.T. -0.041 min

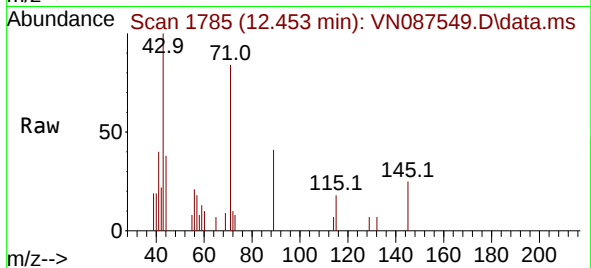
Lab File: VN087549.D

Acq: 13 Aug 2025 20:24

Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion: 43 Resp: 1902

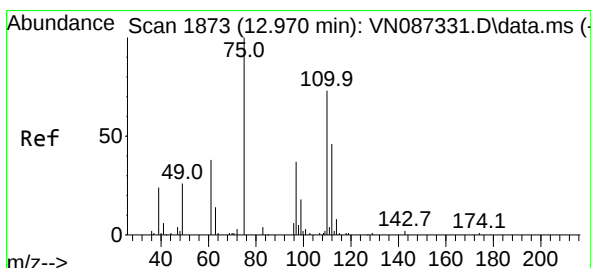
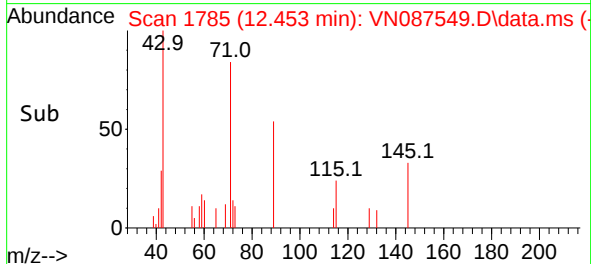
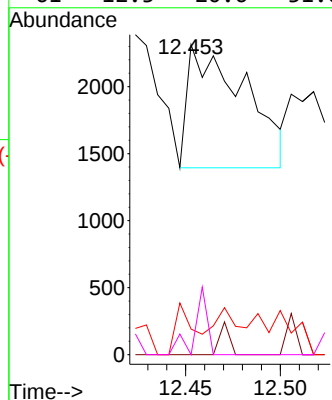
Ion Ratio Lower Upper

43 100

70 0.0 37.6 56.4#

55 13.5 19.6 29.4#

61 12.3 20.6 31.0#



#76

1,2,3-Trichloropropane

Concen: 29.281 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN087549.D

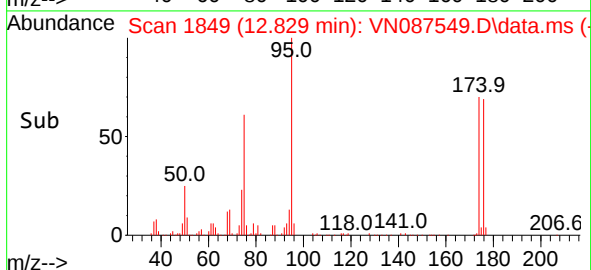
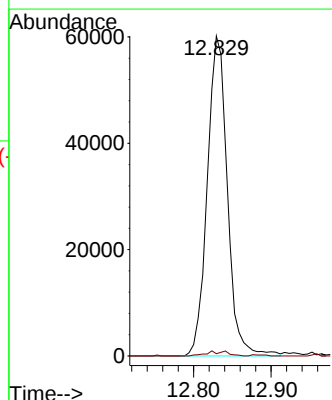
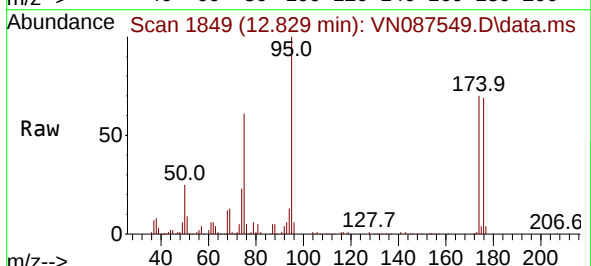
Acq: 13 Aug 2025 20:24

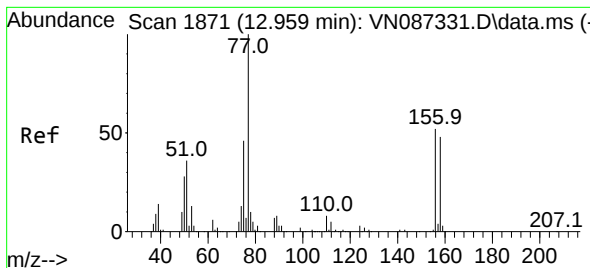
Tgt Ion: 75 Resp: 108399

Ion Ratio Lower Upper

75 100

77 0.8 94.5 283.6#





#77

Bromobenzene

Concen: 0.823 ug/l

RT: 13.206 min Scan# 1849

Delta R.T. 0.247 min

Lab File: VN087549.D

Acq: 13 Aug 2025 20:24

Instrument :

MSVOA_N

ClientSampleId :

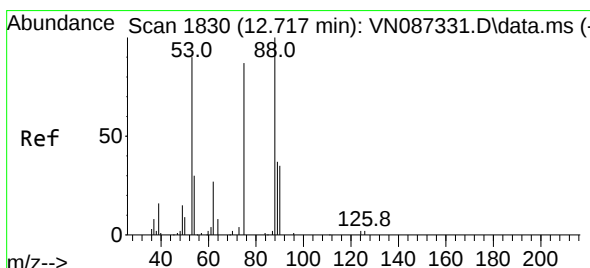
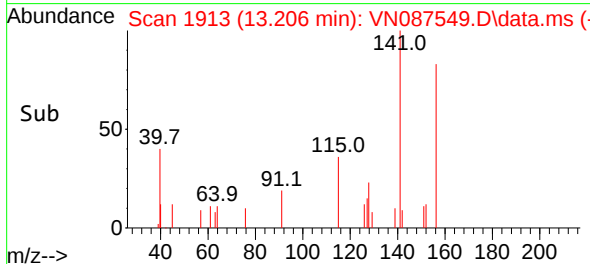
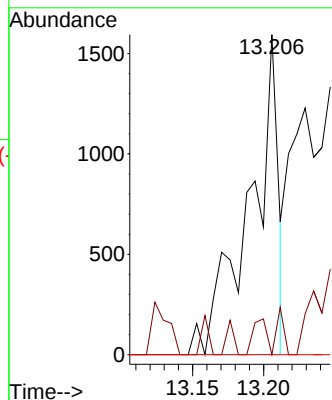
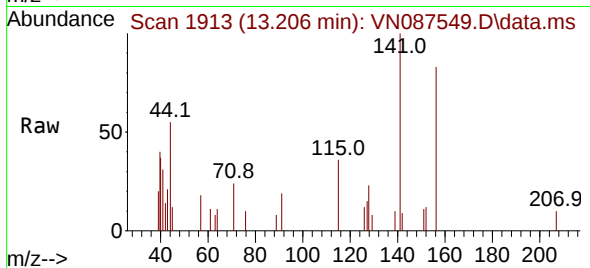
Tgt Ion:156 Resp: 2219

Ion Ratio Lower Upper

156 100

77 5.4 114.9 344.6#

158 0.0 48.5 145.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 80.118 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. 0.112 min

Lab File: VN087549.D

Acq: 13 Aug 2025 20:24

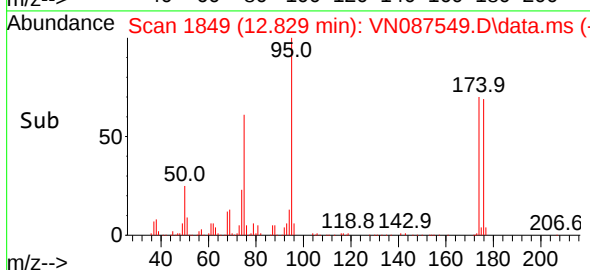
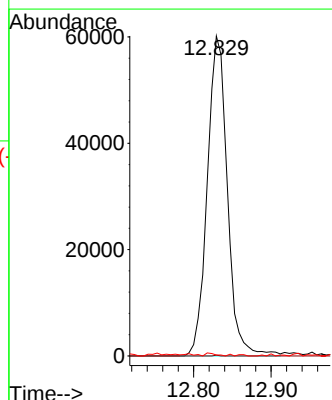
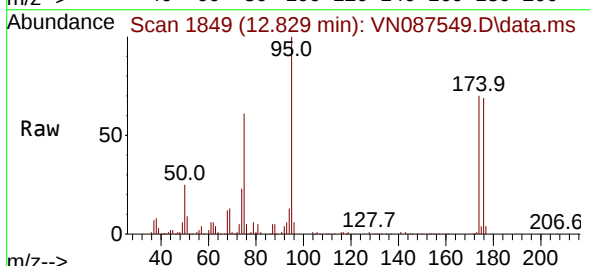
Tgt Ion: 75 Resp: 108399

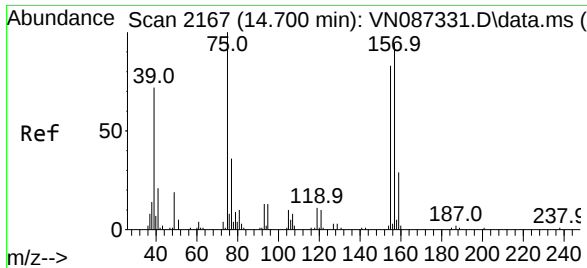
Ion Ratio Lower Upper

75 100

53 0.0 83.5 125.3#

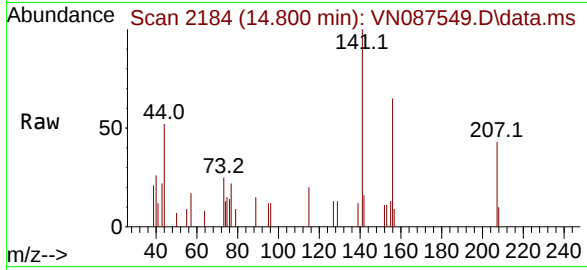
89 0.5 38.4 57.6#





#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.460 ug/l
 RT: 14.800 min Scan# 21
 Delta R.T. 0.100 min
 Lab File: VN087549.D
 Acq: 13 Aug 2025 20:24

Instrument :
 MSVOA_N
 ClientSampleId :



Tgt Ion: 75 Resp: 472

Ion	Ratio	Lower	Upper
75	100		
155	104.7	37.3	111.8
157	68.6	46.2	138.6

