

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081325\
 Data File : VN087539.D
 Acq On : 13 Aug 2025 16:43
 Operator : JC\MD
 Sample : Q2832-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Aug 14 04:03:29 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)

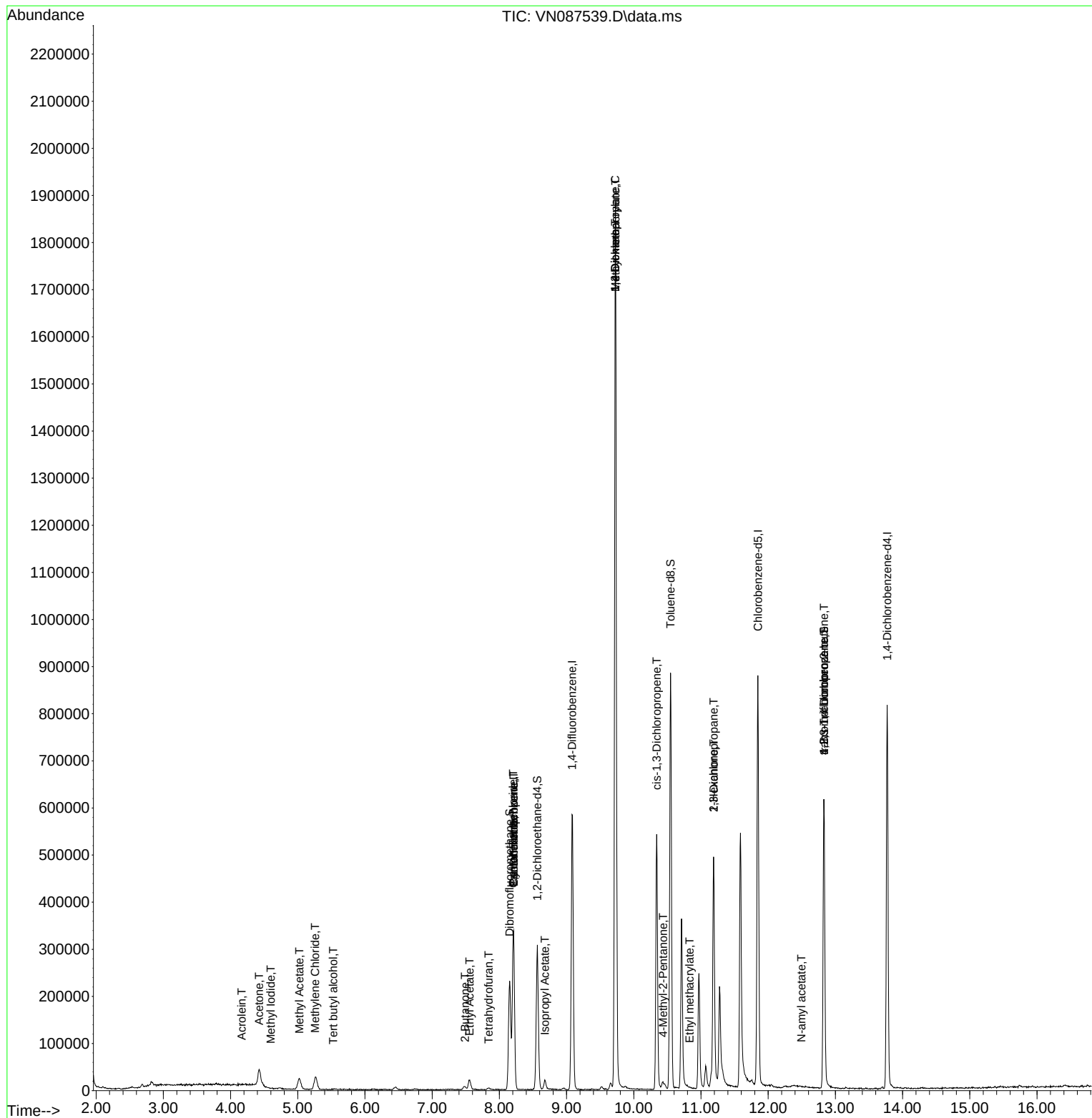
Internal Standards						
1) Pentafluorobenzene	8.212	168	223172	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	9.083	114	484094	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.847	117	453193	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	207241	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.565	65	246376	65.063	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	130.120%	#
35) Dibromofluoromethane	8.153	113	166714	49.925	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	99.860%	
50) Toluene-d8	10.547	98	580357	48.722	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	97.440%	
62) 4-Bromofluorobenzene	12.829	95	217675	49.463	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	98.920%	
Target Compounds						
						Qvalue
10) Methyl Iodide	4.600	142	78	5.661	ug/l	# 40
11) Tert butyl alcohol	5.530	59	263	0.366	ug/l	# 72
13) Acrolein	4.165	56	264	0.458	ug/l	# 1
16) Acetone	4.424	43	62106	34.979	ug/l	93
18) Methyl Acetate	5.024	43	52395	11.746	ug/l	99
20) Methylene Chloride	5.259	84	20954	6.423	ug/l	93
25) 2-Butanone	7.489	43	11586	4.223	ug/l	98
29) Tetrahydrofuran	7.841	42	2950	1.655	ug/l	# 76
31) Cyclohexane	8.212	56	7286	1.565	ug/l	# 16
36) 1,1-Dichloropropene	8.212	75	22196	5.031	ug/l	# 51
37) Ethyl Acetate	7.559	43	33576	5.270	ug/l	99
38) Carbon Tetrachloride	8.206	117	27766	5.713	ug/l	# 14
43) Isopropyl Acetate	8.677	43	23519	2.378	ug/l	# 86
45) 1,2-Dichloropropane	9.724	63	2228	0.615	ug/l	# 41
48) Methyl methacrylate	9.730	41	186701	41.929	ug/l	# 47
49) 1,4-Dioxane	9.724	88	598	8.768	ug/l	# 1
51) 4-Methyl-2-Pentanone	10.435	43	8700	1.391	ug/l	93
54) cis-1,3-Dichloropropene	10.341	75	93002	16.282	ug/l	# 66
56) Ethyl methacrylate	10.829	69	53	0.644	ug/l	# 24
57) 1,3-Dichloropropane	11.188	76	5670	0.935	ug/l	# 42
59) 2-Hexanone	11.188	43	104700	25.226	ug/l	# 46
74) N-amyl acetate	12.494	43	1797	0.332	ug/l	# 48
76) 1,2,3-Trichloropropane	12.829	75	125430	26.990	ug/l	# 1
81) trans-1,4-Dichloro-2-b...	12.829	75	125430	73.850	ug/l	# 8

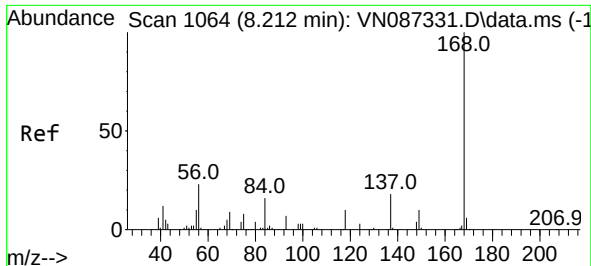
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA_N
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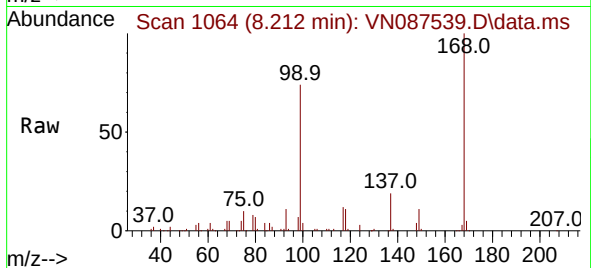
Quant Time: Aug 14 04:03:29 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N071625W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 17 02:56:13 2025
Response via : Initial Calibration



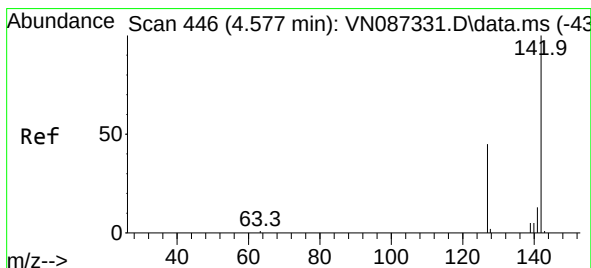
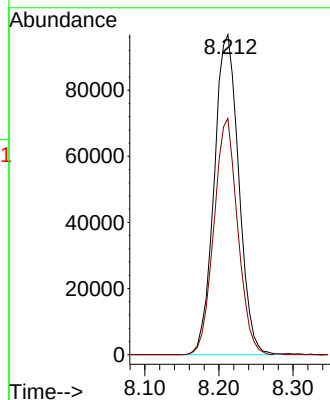
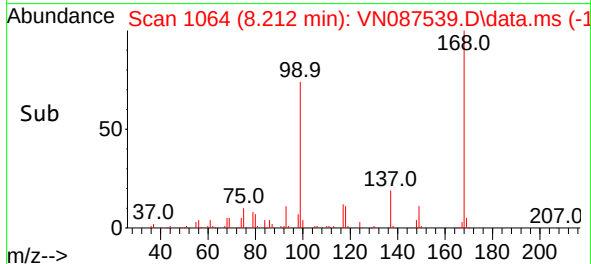


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VN087539.D
Acq: 13 Aug 2025 16:43

Instrument :
MSVOA_N
ClientSampleId :

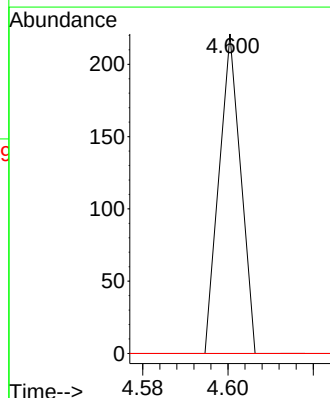
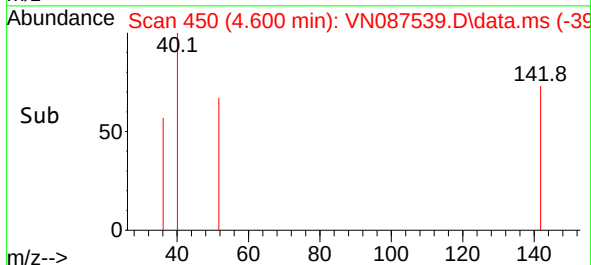
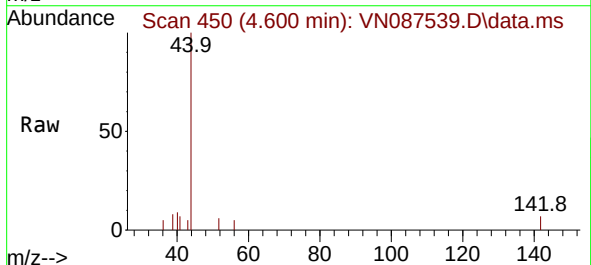


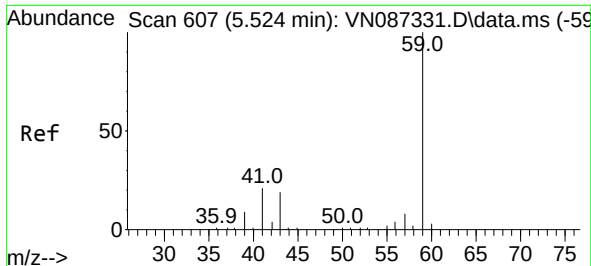
Tgt Ion:168 Resp: 223172
Ion Ratio Lower Upper
168 100
99 73.8 47.9 71.9#



#10
Methyl Iodide
Concen: 5.661 ug/l
RT: 4.600 min Scan# 450
Delta R.T. 0.023 min
Lab File: VN087539.D
Acq: 13 Aug 2025 16:43

Tgt Ion:142 Resp: 78
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: 0.366 ug/l

RT: 5.530 min Scan# 607

Delta R.T. 0.006 min

Lab File: VN087539.D

Acq: 13 Aug 2025 16:43

Instrument :

MSVOA_N

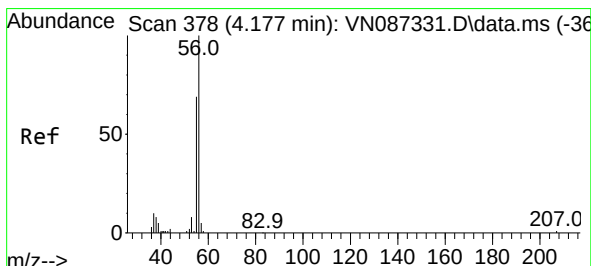
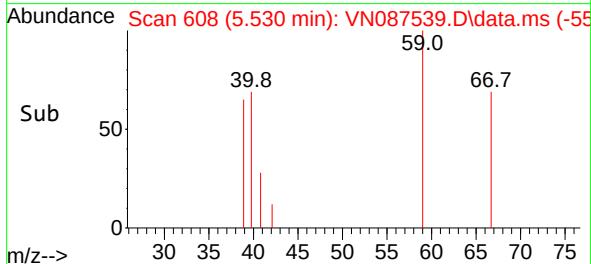
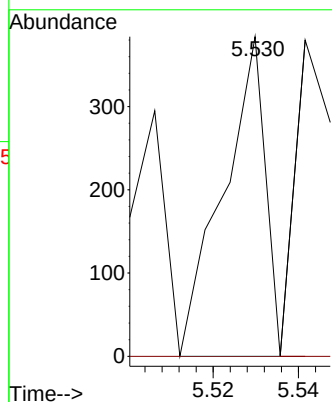
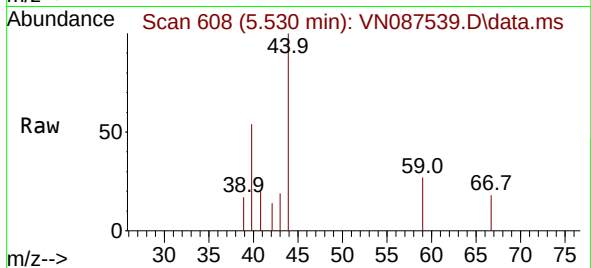
ClientSampleId :

Tgt Ion: 59 Resp: 263

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#13

Acrolein

Concen: 0.458 ug/l

RT: 4.165 min Scan# 376

Delta R.T. -0.012 min

Lab File: VN087539.D

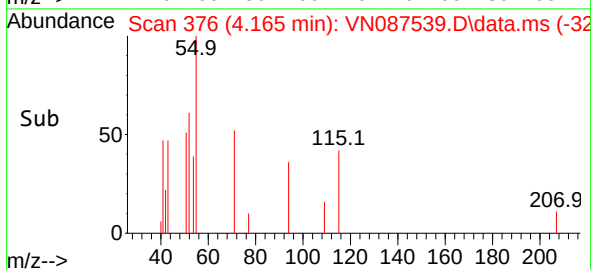
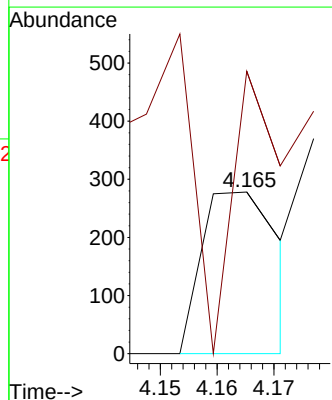
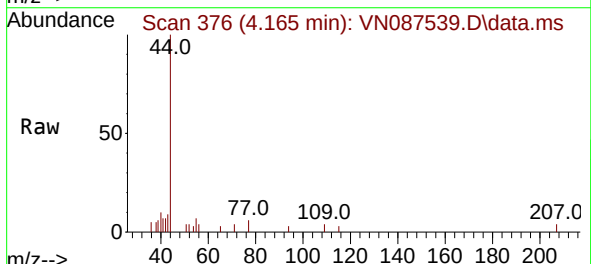
Acq: 13 Aug 2025 16:43

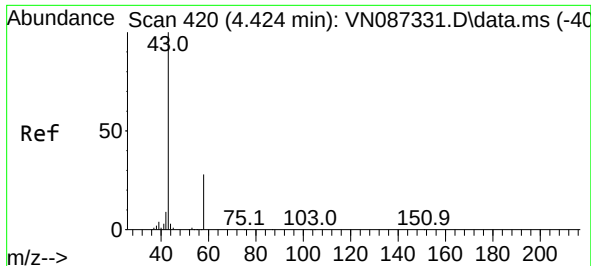
Tgt Ion: 56 Resp: 264

Ion Ratio Lower Upper

56 100

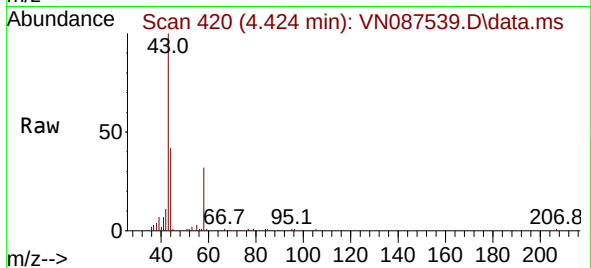
55 200.0 56.2 84.4#



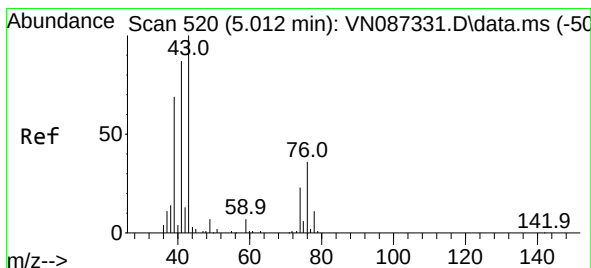
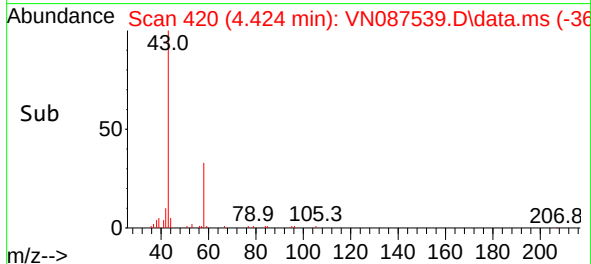
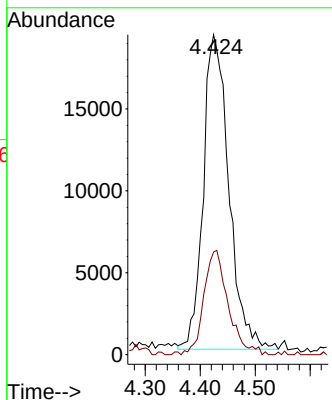


#16
Acetone
Concen: 34.979 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN087539.D
Acq: 13 Aug 2025 16:43

Instrument :
MSVOA_N
ClientSampleId :

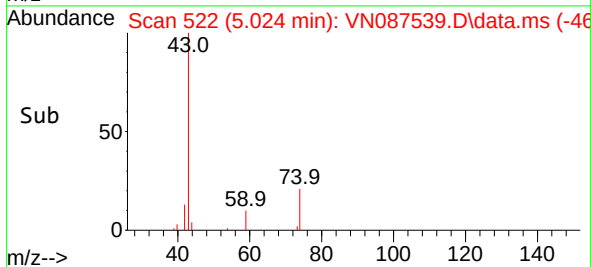
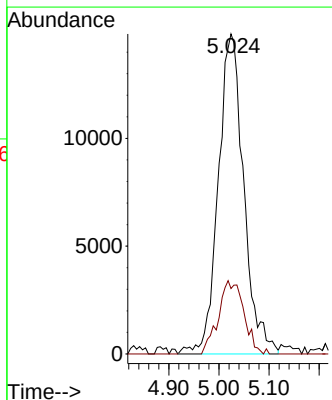
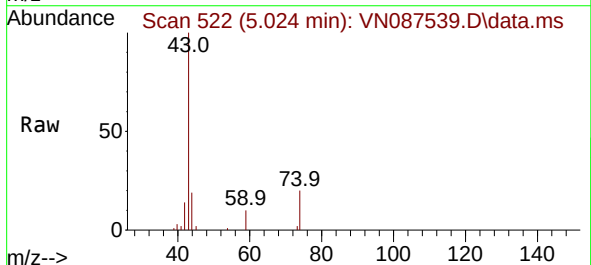


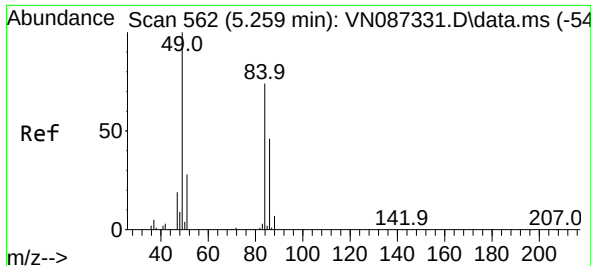
Tgt Ion: 43 Resp: 62106
Ion Ratio Lower Upper
43 100
58 31.8 22.3 33.5



#18
Methyl Acetate
Concen: 11.746 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.012 min
Lab File: VN087539.D
Acq: 13 Aug 2025 16:43

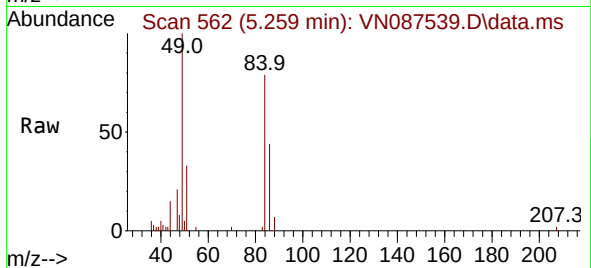
Tgt Ion: 43 Resp: 52395
Ion Ratio Lower Upper
43 100
74 22.7 17.8 26.6



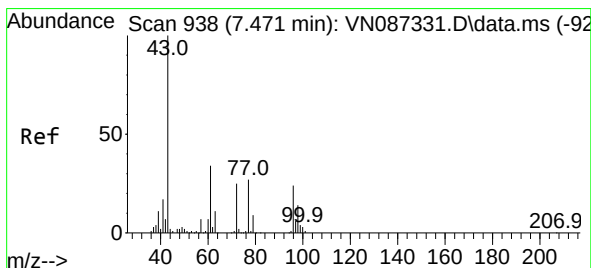
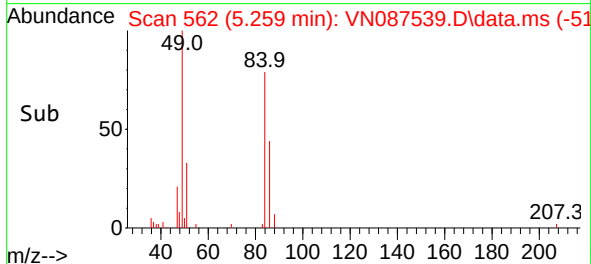
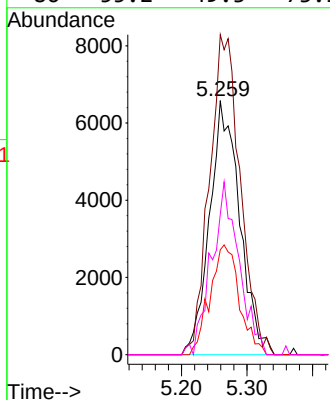


#20
Methylene Chloride
Concen: 6.423 ug/l
RT: 5.259 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN087539.D
Acq: 13 Aug 2025 16:43

Instrument :
MSVOA_N
ClientSampleId :

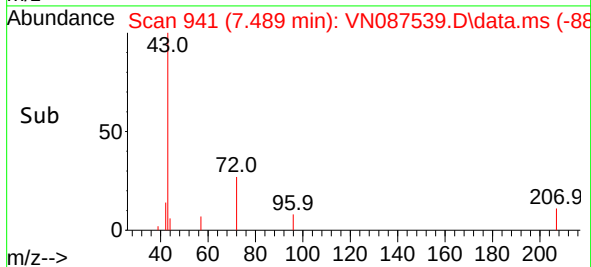
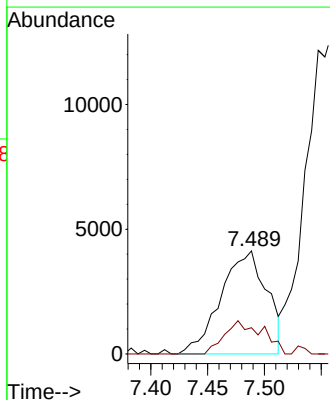
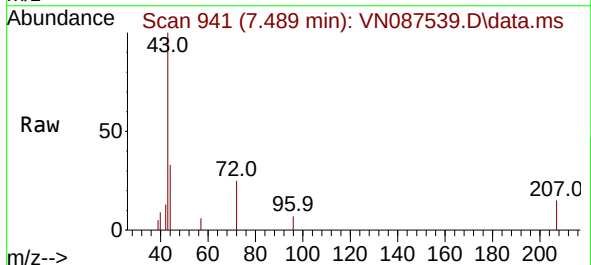


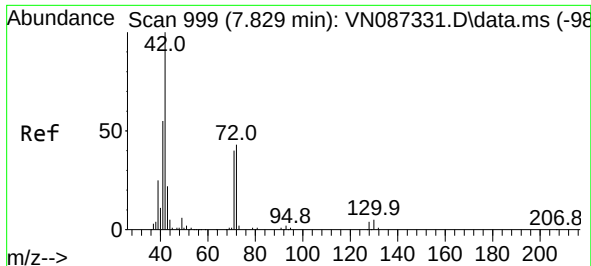
Tgt Ion:	84	Resp:	20954
Ion	Ratio	Lower	Upper
84	100		
49	126.0	107.5	161.3
51	41.2	30.2	45.2
86	55.2	49.3	73.9



#25
2-Butanone
Concen: 4.223 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.018 min
Lab File: VN087539.D
Acq: 13 Aug 2025 16:43

Tgt Ion:	43	Resp:	11586
Ion	Ratio	Lower	Upper
43	100		
72	25.5	19.6	29.4





#29

Tetrahydrofuran

Concen: 1.655 ug/l

RT: 7.841 min Scan# 1001

Delta R.T. 0.012 min

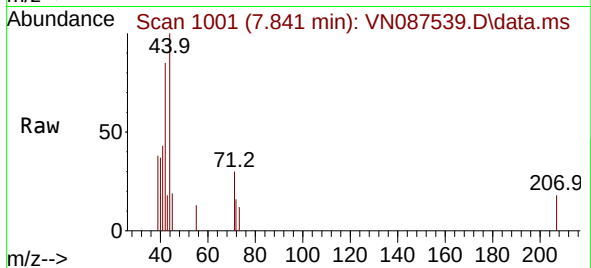
Lab File: VN087539.D

Acq: 13 Aug 2025 16:43

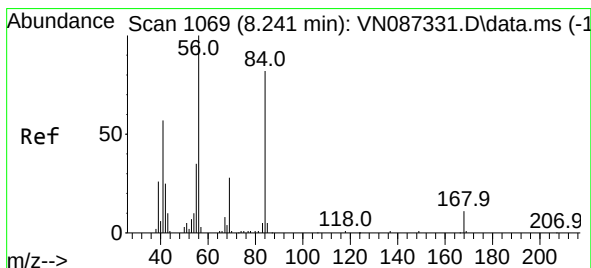
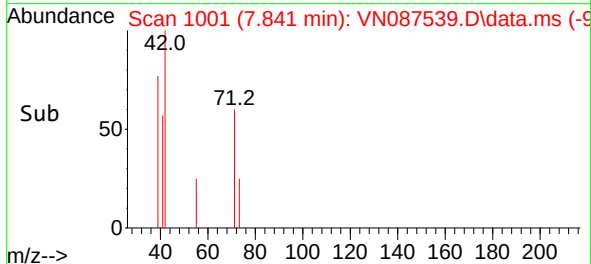
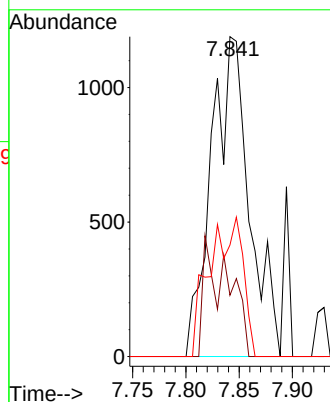
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	2950
Ion Ratio	Lower	Upper	
42	100		
72	13.2	33.4	50.0#
71	38.5	31.2	46.8



#31

Cyclohexane

Concen: 1.565 ug/l

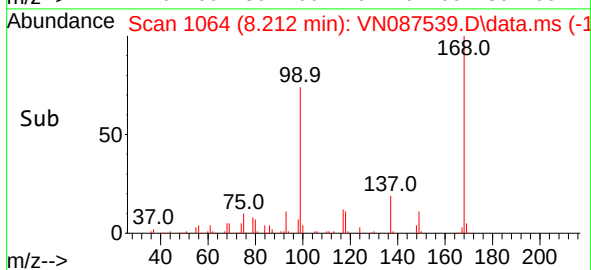
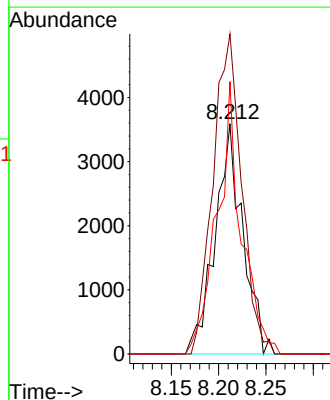
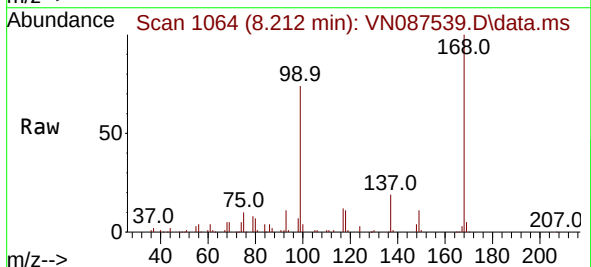
RT: 8.212 min Scan# 1064

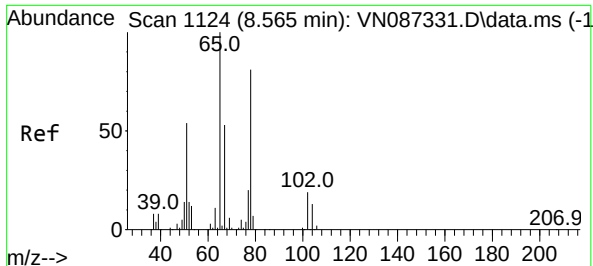
Delta R.T. -0.029 min

Lab File: VN087539.D

Acq: 13 Aug 2025 16:43

Tgt Ion:	56	Resp:	7286
Ion Ratio	Lower	Upper	
56	100		
69	139.0	22.7	34.1#
84	118.3	65.8	98.6#





#33

1,2-Dichloroethane-d4

Concen: 65.063 ug/l

RT: 8.565 min Scan# 1124

Delta R.T. 0.000 min

Lab File: VN087539.D

Acq: 13 Aug 2025 16:43

Instrument :

MSVOA_N

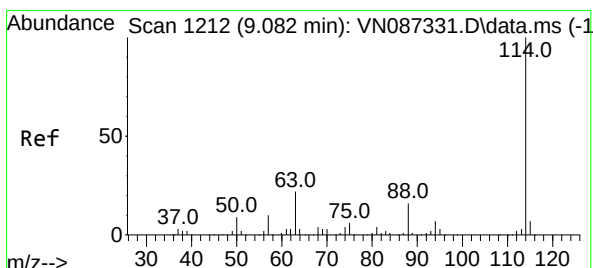
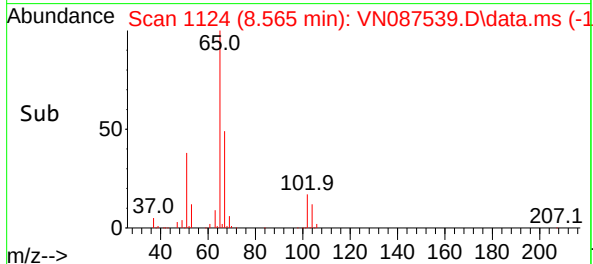
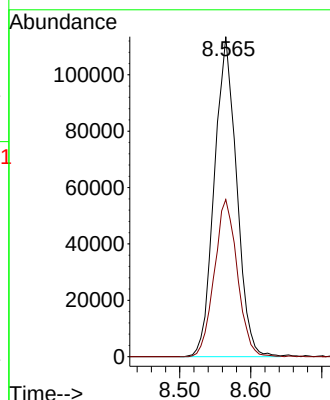
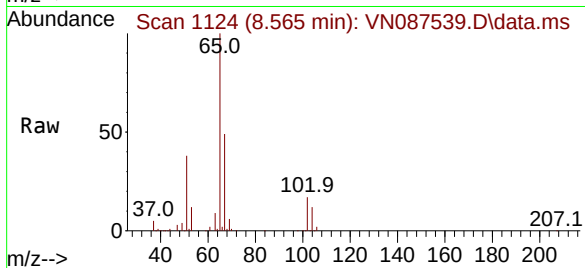
ClientSampleId :

Tgt Ion: 65 Resp: 246376

Ion Ratio Lower Upper

65 100

67 50.7 0.0 104.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.083 min Scan# 1212

Delta R.T. 0.001 min

Lab File: VN087539.D

Acq: 13 Aug 2025 16:43

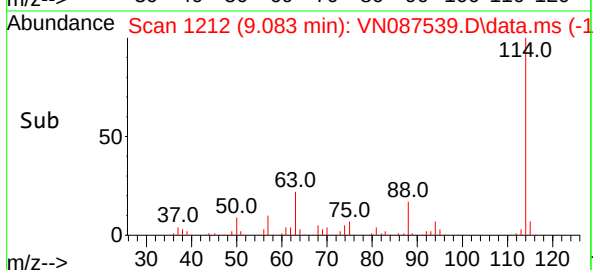
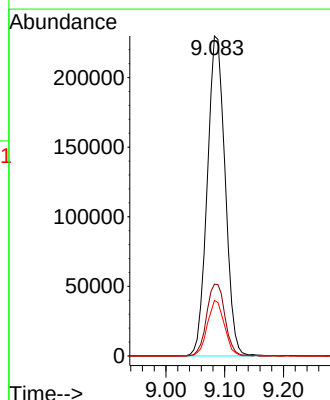
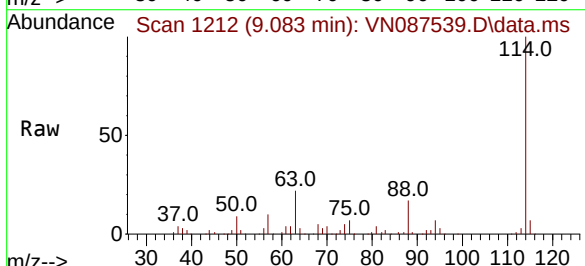
Tgt Ion: 114 Resp: 484094

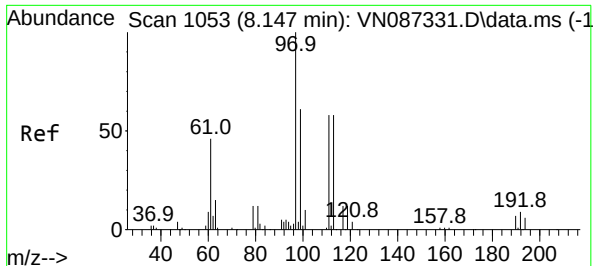
Ion Ratio Lower Upper

114 100

63 22.4 0.0 44.6

88 17.4 0.0 32.8





#35

Dibromofluoromethane

Concen: 49.925 ug/l

RT: 8.153 min Scan# 1054

Delta R.T. 0.006 min

Lab File: VN087539.D

Acq: 13 Aug 2025 16:43

Instrument :

MSVOA_N

ClientSampleId :

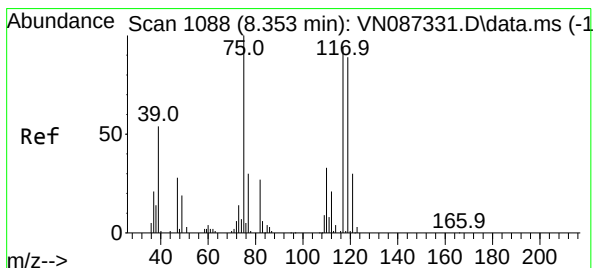
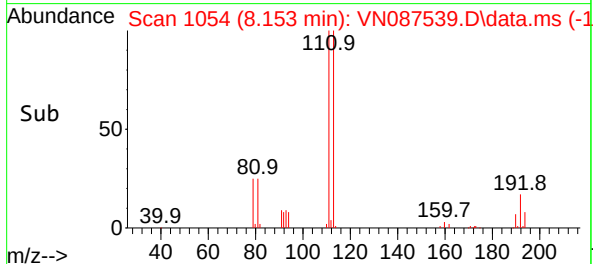
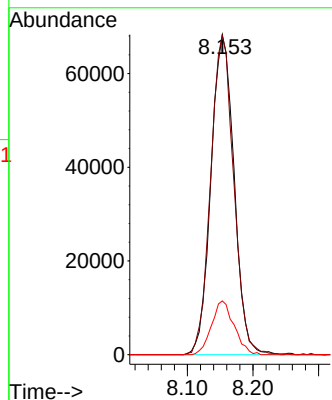
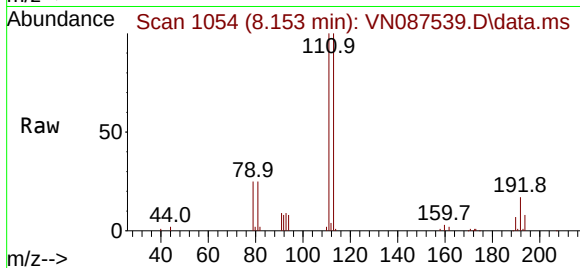
Tgt Ion:113 Resp: 166714

Ion Ratio Lower Upper

113 100

111 99.6 82.5 123.7

192 16.4 13.7 20.5



#36

1,1-Dichloropropene

Concen: 5.031 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.141 min

Lab File: VN087539.D

Acq: 13 Aug 2025 16:43

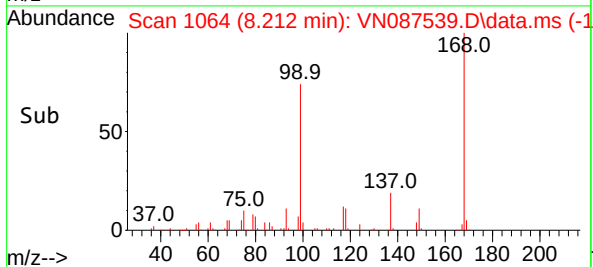
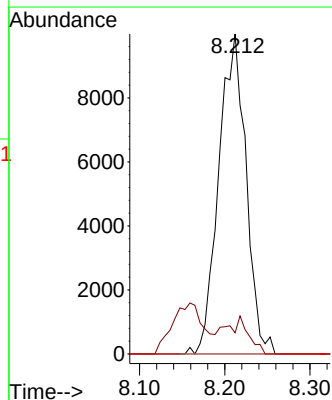
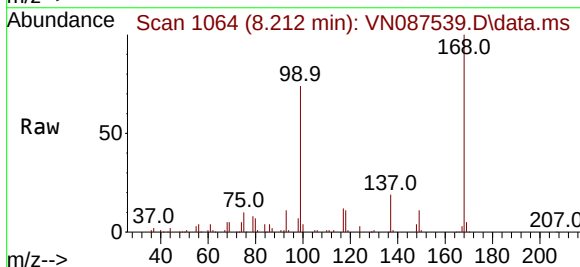
Tgt Ion: 75 Resp: 22196

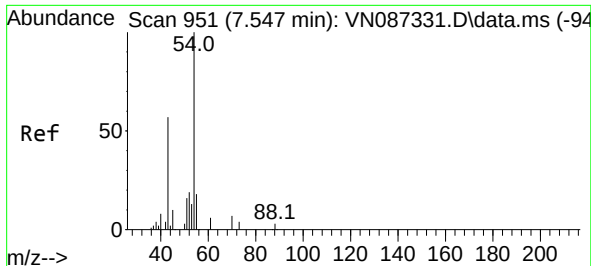
Ion Ratio Lower Upper

75 100

110 10.0 16.7 50.1#

77 0.0 25.2 37.8#





#37

Ethyl Acetate

Concen: 5.270 ug/l

RT: 7.559 min Scan# 91

Delta R.T. 0.012 min

Lab File: VN087539.D

Acq: 13 Aug 2025 16:43

Instrument :

MSVOA_N

ClientSampleId :

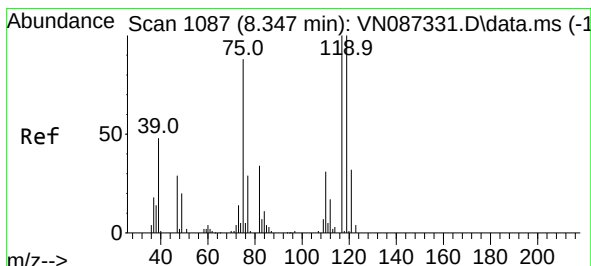
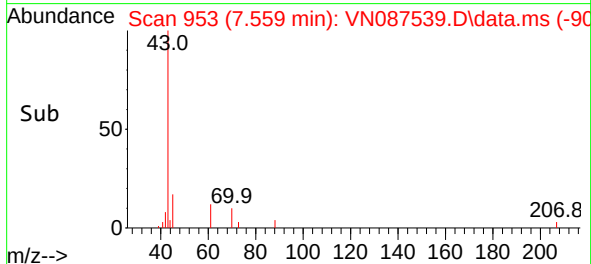
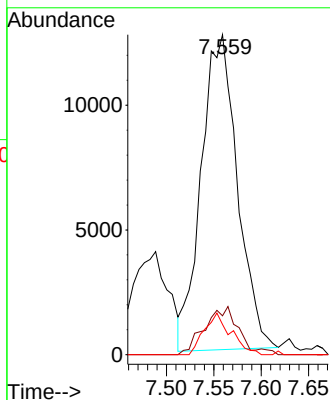
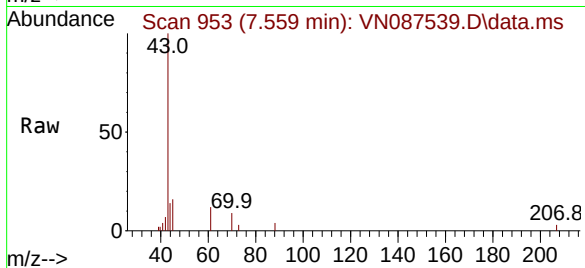
Tgt Ion: 43 Resp: 33576

Ion Ratio Lower Upper

43 100

61 13.9 10.9 16.3

70 9.7 7.4 11.0



#38

Carbon Tetrachloride

Concen: 5.713 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.141 min

Lab File: VN087539.D

Acq: 13 Aug 2025 16:43

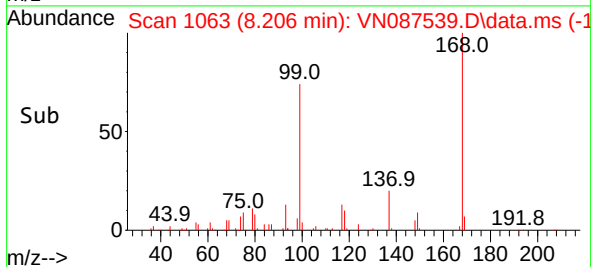
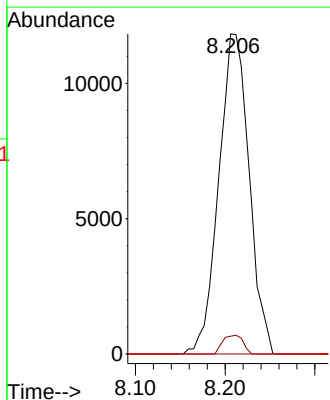
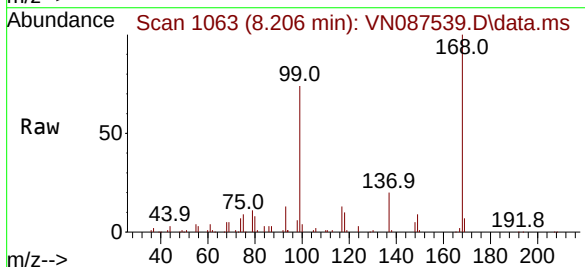
Tgt Ion: 117 Resp: 27766

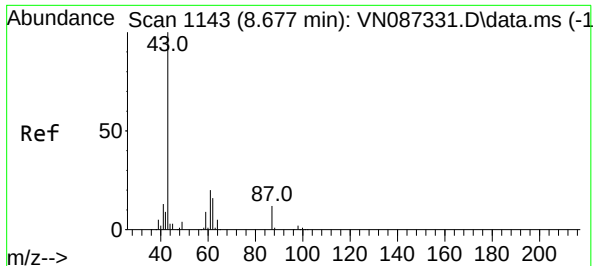
Ion Ratio Lower Upper

117 100

119 5.6 80.2 120.2#

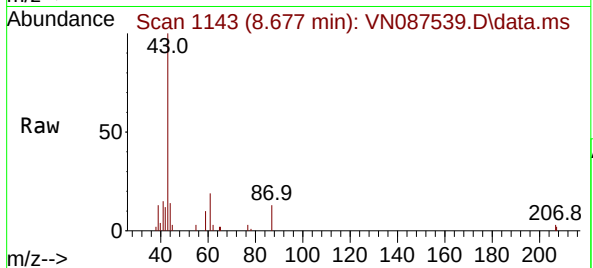
121 0.0 25.4 38.2#



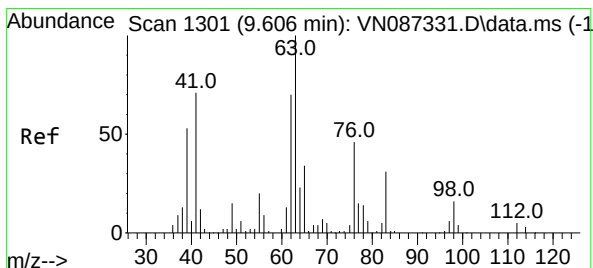
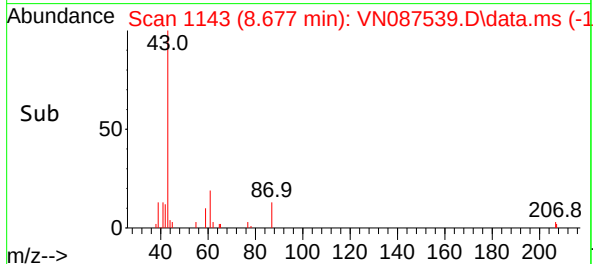
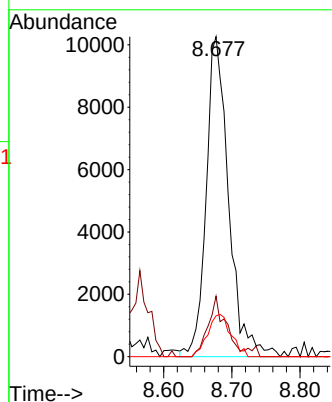


#43
Isopropyl Acetate
Concen: 2.378 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VN087539.D
Acq: 13 Aug 2025 16:43

Instrument :
MSVOA_N
ClientSampleId :

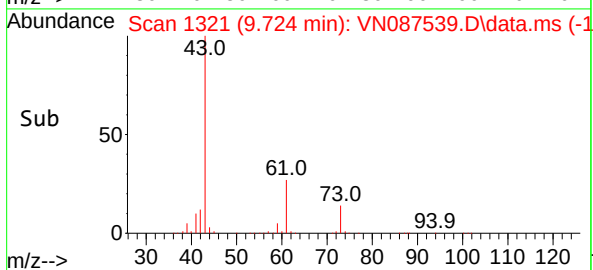
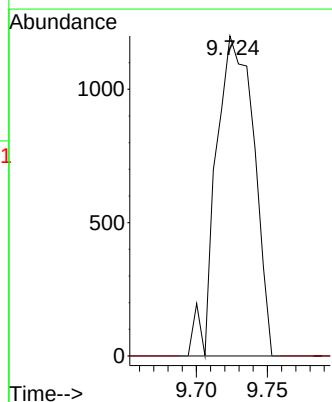
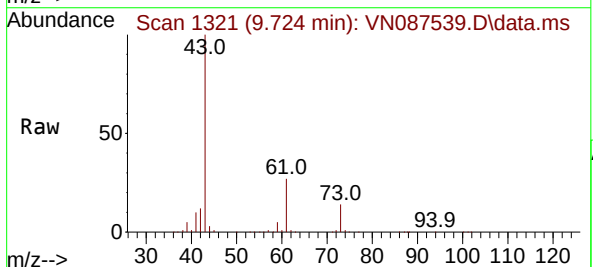


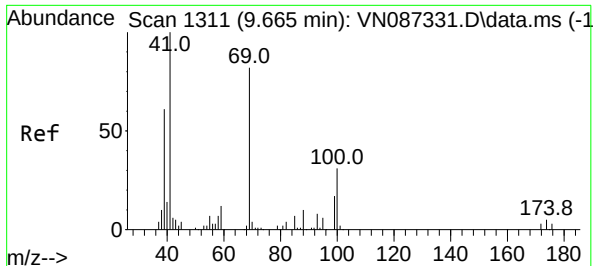
Tgt Ion: 43 Resp: 23519
Ion Ratio Lower Upper
43 100
61 15.1 19.8 29.8#
87 13.7 9.8 14.6



#45
1,2-Dichloropropane
Concen: 0.615 ug/l
RT: 9.724 min Scan# 1321
Delta R.T. 0.118 min
Lab File: VN087539.D
Acq: 13 Aug 2025 16:43

Tgt Ion: 63 Resp: 2228
Ion Ratio Lower Upper
63 100
65 0.0 27.0 40.4#





#48

Methyl methacrylate

Concen: 41.929 ug/l

RT: 9.730 min Scan# 1

Delta R.T. 0.065 min

Lab File: VN087539.D

Acq: 13 Aug 2025 16:43

Instrument :

MSVOA_N

ClientSampleId :

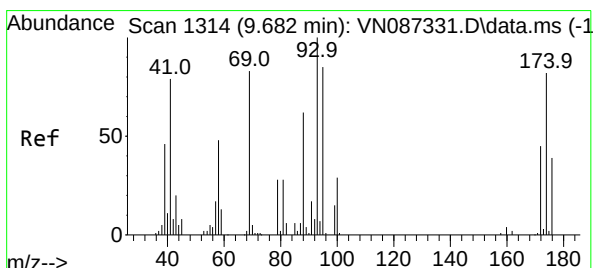
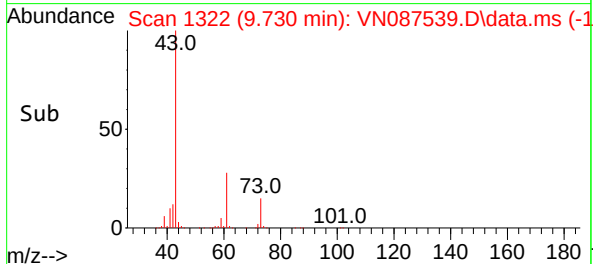
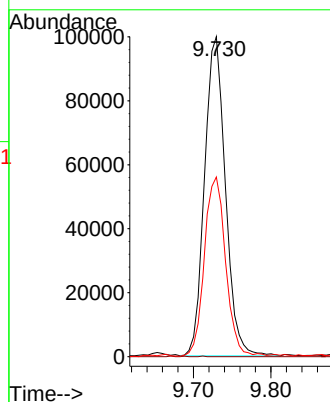
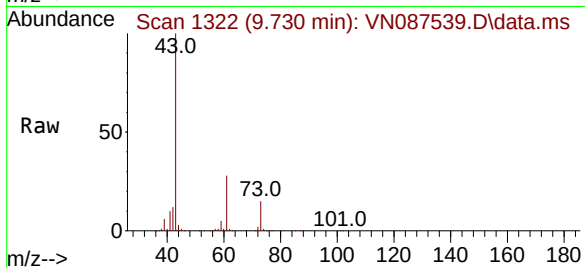
Tgt Ion: 41 Resp: 186701

Ion Ratio Lower Upper

41 100

69 0.0 64.1 96.1#

39 57.1 45.5 68.3



#49

1,4-Dioxane

Concen: 8.768 ug/l

RT: 9.724 min Scan# 1321

Delta R.T. 0.042 min

Lab File: VN087539.D

Acq: 13 Aug 2025 16:43

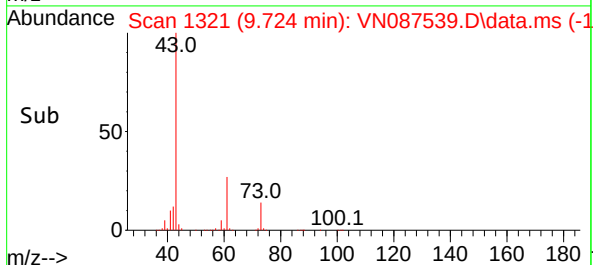
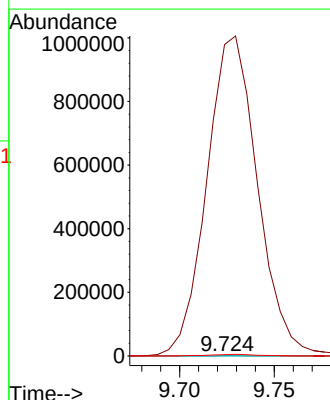
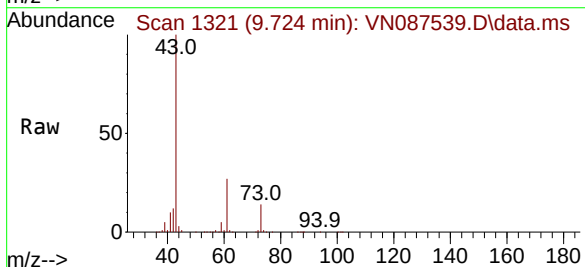
Tgt Ion: 88 Resp: 598

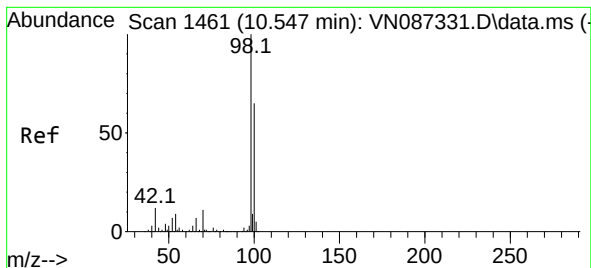
Ion Ratio Lower Upper

88 100

43 316935.1 0.0 0.0#

58 1523.1 61.1 91.7#

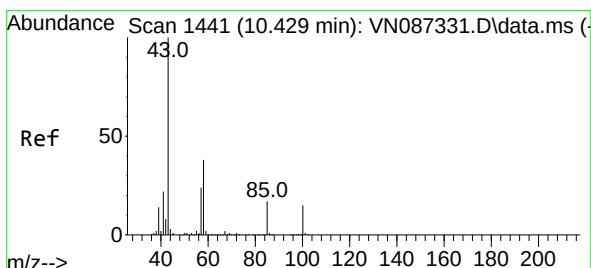
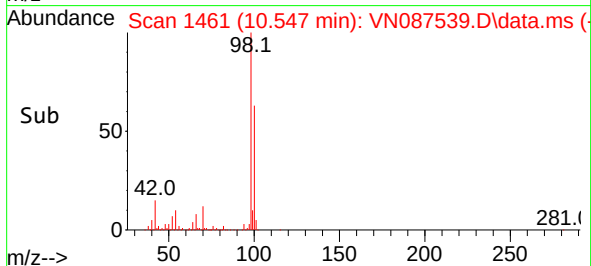
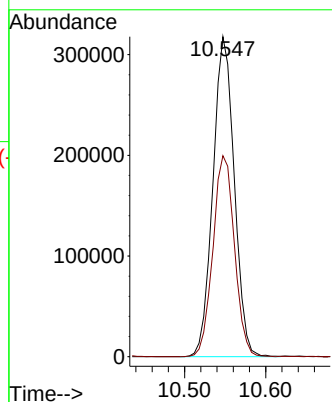
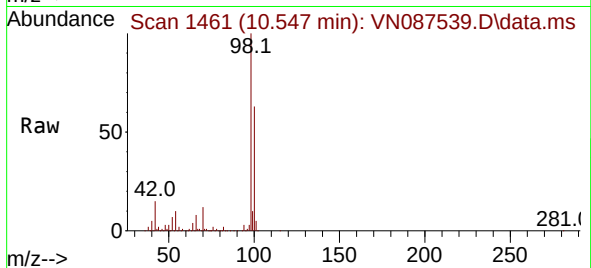




#50
Toluene-d8
Concen: 48.722 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087539.D
Acq: 13 Aug 2025 16:43

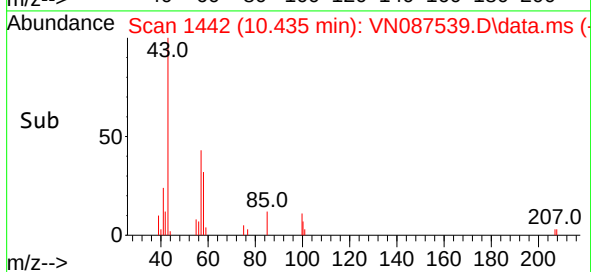
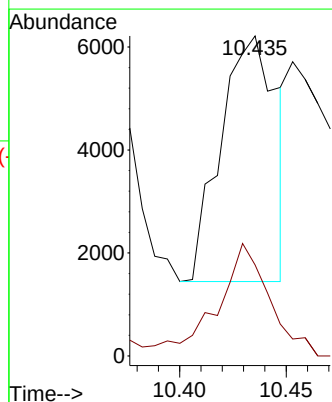
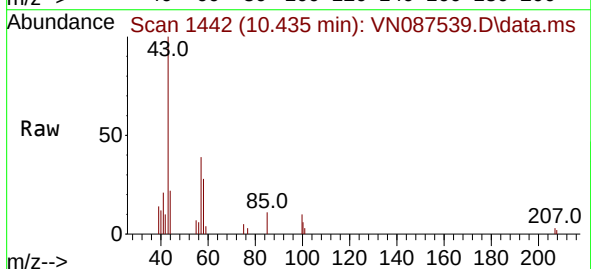
Instrument :
MSVOA_N
ClientSampleId :

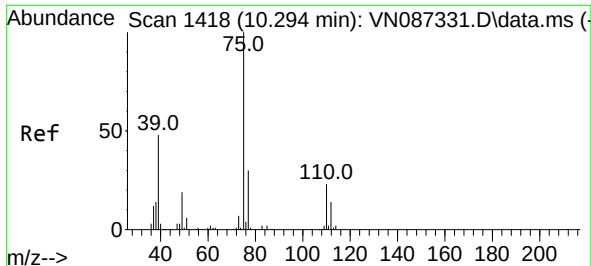
Tgt Ion: 98 Resp: 580357
Ion Ratio Lower Upper
98 100
100 63.3 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 1.391 ug/l
RT: 10.435 min Scan# 1442
Delta R.T. 0.006 min
Lab File: VN087539.D
Acq: 13 Aug 2025 16:43

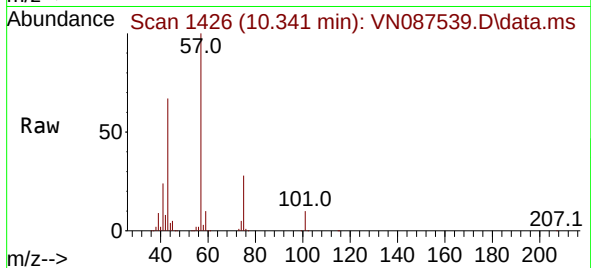
Tgt Ion: 43 Resp: 8700
Ion Ratio Lower Upper
43 100
58 42.5 30.8 46.2



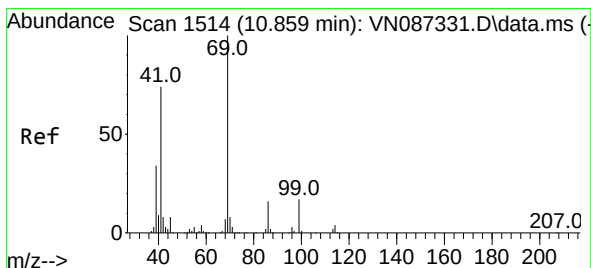
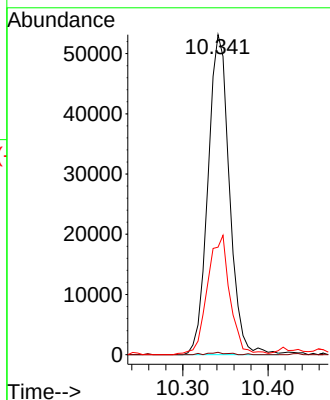
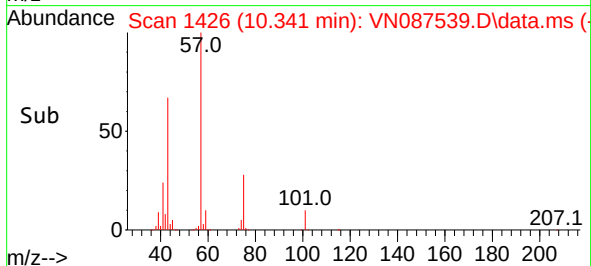


#54
cis-1,3-Dichloropropene
Concen: 16.282 ug/l
RT: 10.341 min Scan# 1418
Delta R.T. 0.047 min
Lab File: VN087539.D
Acq: 13 Aug 2025 16:43

Instrument :
MSVOA_N
ClientSampleId :

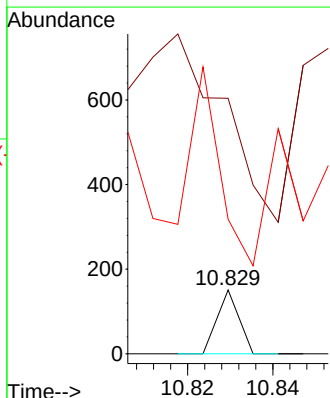
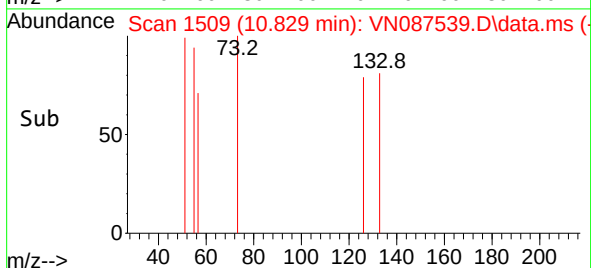
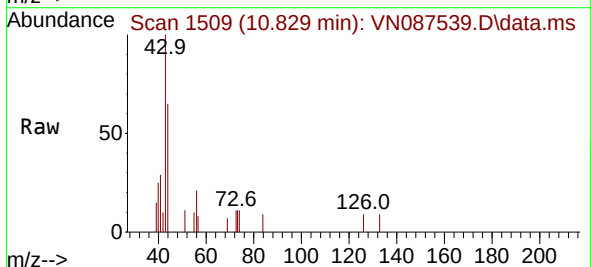


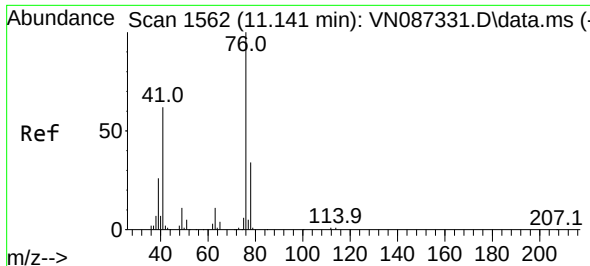
Tgt Ion: 75 Resp: 93002
Ion Ratio Lower Upper
75 100
77 0.8 24.2 36.2#
39 33.2 38.4 57.6#



#56
Ethyl methacrylate
Concen: 0.644 ug/l
RT: 10.829 min Scan# 1509
Delta R.T. -0.030 min
Lab File: VN087539.D
Acq: 13 Aug 2025 16:43

Tgt Ion: 69 Resp: 53
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: 0.935 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.047 min

Lab File: VN087539.D

Acq: 13 Aug 2025 16:43

Instrument :

MSVOA_N

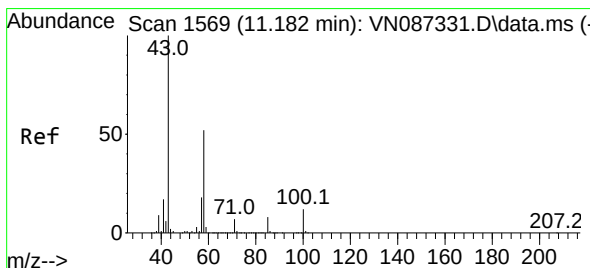
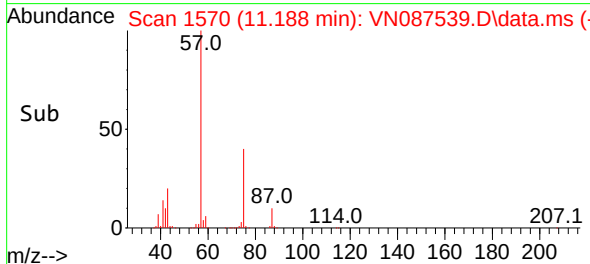
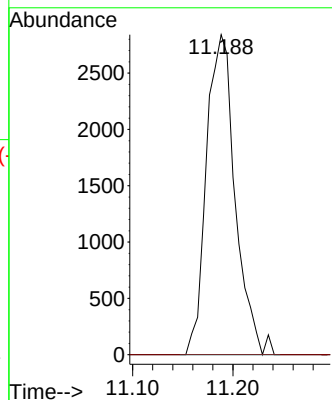
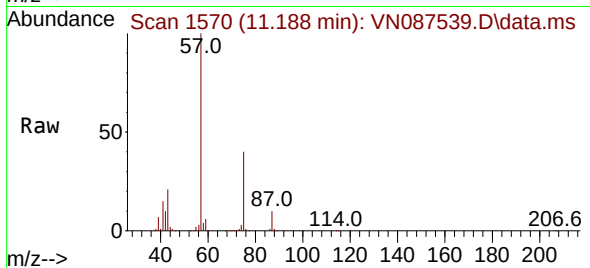
ClientSampleId :

Tgt Ion: 76 Resp: 5670

Ion Ratio Lower Upper

76 100

78 0.0 26.0 39.0#



#59

2-Hexanone

Concen: 25.226 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.006 min

Lab File: VN087539.D

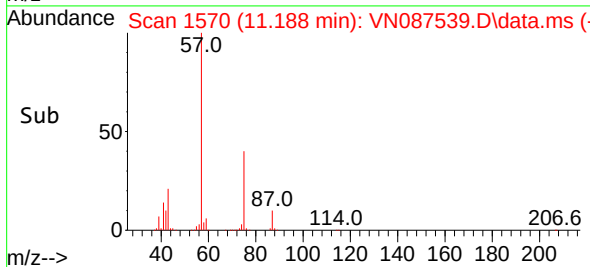
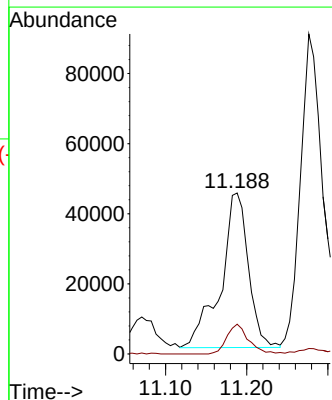
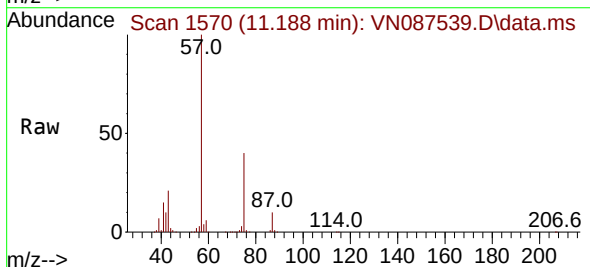
Acq: 13 Aug 2025 16:43

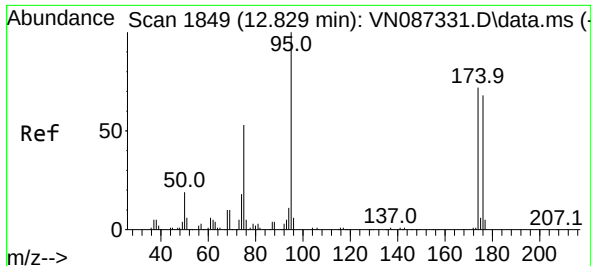
Tgt Ion: 43 Resp: 104700

Ion Ratio Lower Upper

43 100

58 15.2 26.7 80.0#

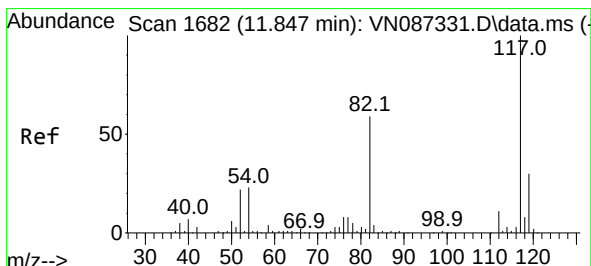
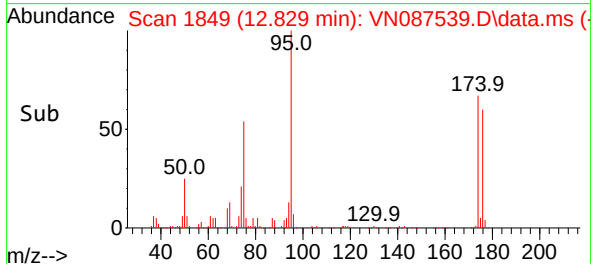
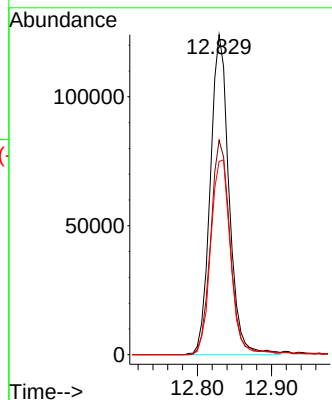
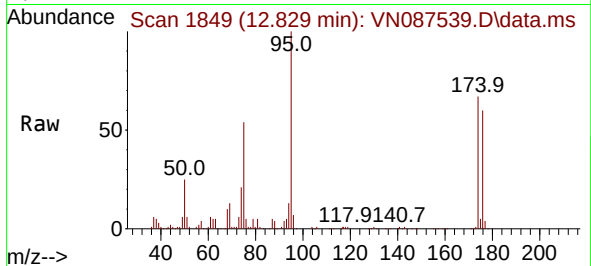




#62
4-Bromofluorobenzene
Concen: 49.463 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087539.D
Acq: 13 Aug 2025 16:43

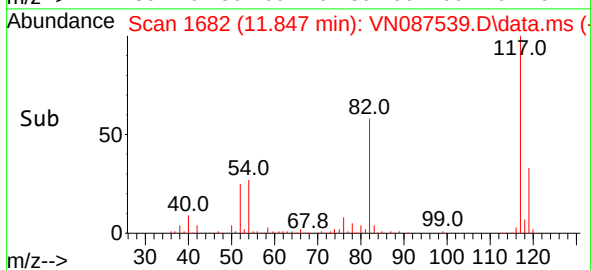
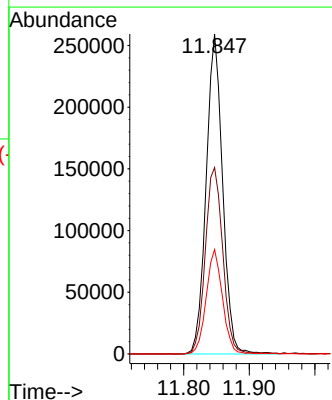
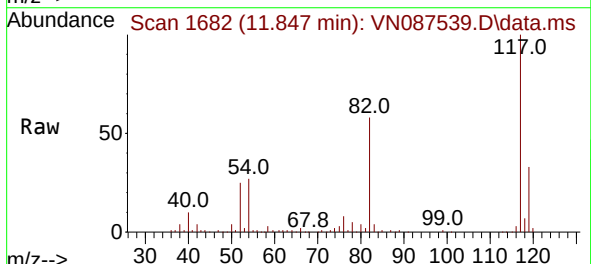
Instrument :
MSVOA_N
ClientSampleId :

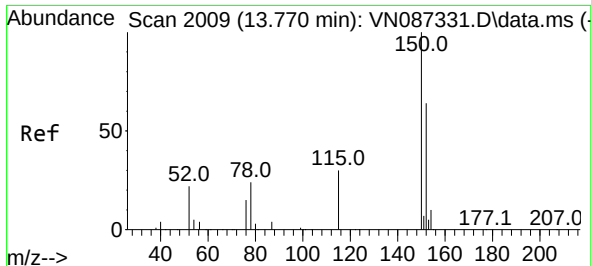
Tgt Ion: 95 Resp: 217675
Ion Ratio Lower Upper
95 100
174 70.0 0.0 149.4
176 64.7 0.0 141.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.000 min
Lab File: VN087539.D
Acq: 13 Aug 2025 16:43

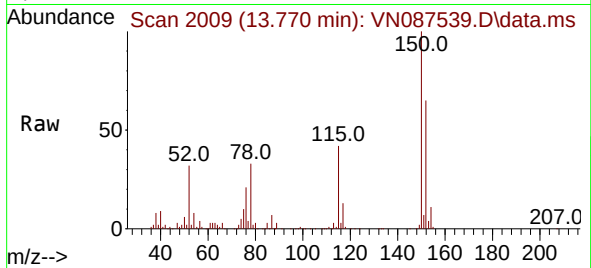
Tgt Ion: 117 Resp: 453193
Ion Ratio Lower Upper
117 100
82 58.3 47.4 71.2
119 32.6 23.8 35.8



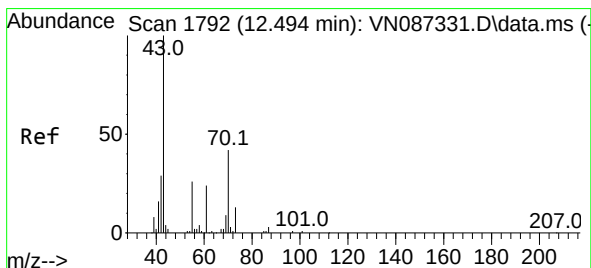
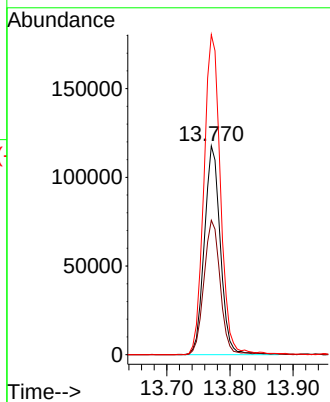
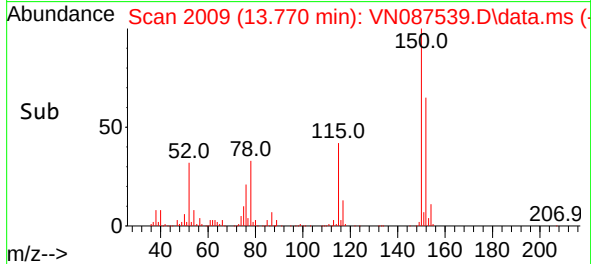


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.770 min Scan# 2009
 Delta R.T. 0.000 min
 Lab File: VN087539.D
 Acq: 13 Aug 2025 16:43

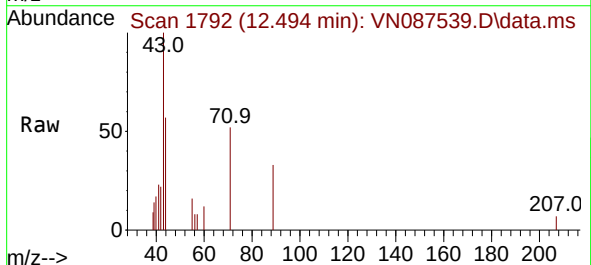
Instrument :
 MSVOA_N
 ClientSampleId :



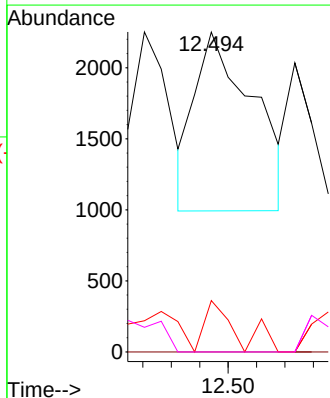
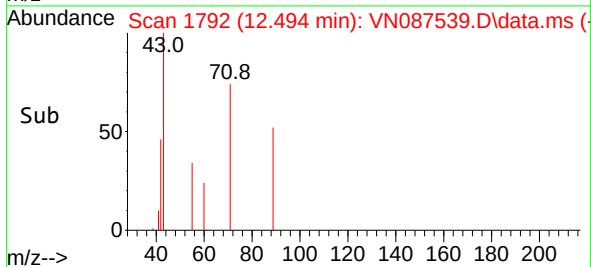
Tgt Ion:152 Resp: 207241
 Ion Ratio Lower Upper
 152 100
 115 66.0 31.1 93.5
 150 158.0 0.0 349.0

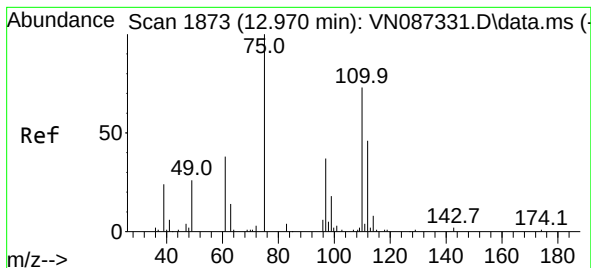


#74
 N-ethyl acetate
 Concen: 0.332 ug/l
 RT: 12.494 min Scan# 1792
 Delta R.T. 0.000 min
 Lab File: VN087539.D
 Acq: 13 Aug 2025 16:43



Tgt Ion: 43 Resp: 1797
 Ion Ratio Lower Upper
 43 100
 70 0.0 37.6 56.4#
 55 16.1 19.6 29.4#
 61 0.0 20.6 31.0#





#76

1,2,3-Trichloropropane

Concen: 26.990 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN087539.D

Acq: 13 Aug 2025 16:43

Instrument :

MSVOA_N

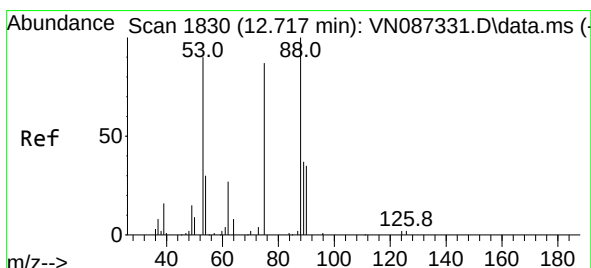
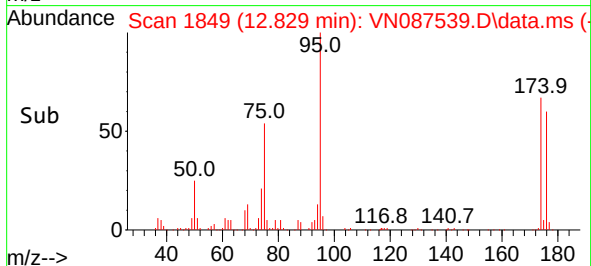
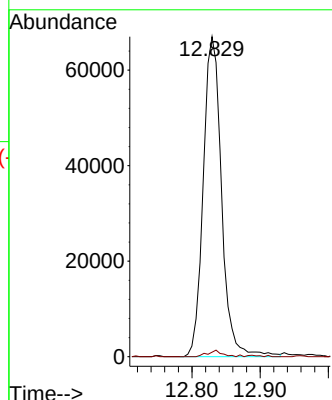
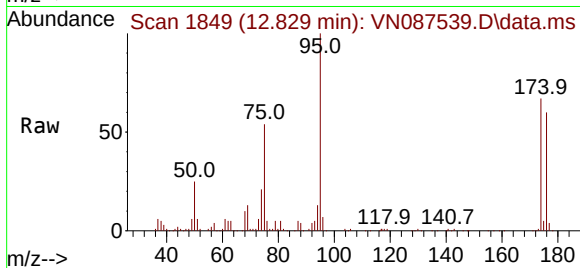
ClientSampleId :

Tgt Ion: 75 Resp: 125430

Ion Ratio Lower Upper

75 100

77 1.5 94.5 283.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 73.850 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. 0.112 min

Lab File: VN087539.D

Acq: 13 Aug 2025 16:43

Tgt Ion: 75 Resp: 125430

Ion Ratio Lower Upper

75 100

53 0.0 83.5 125.3#

89 0.8 38.4 57.6#

