

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062725\
 Data File : VN087215.D
 Acq On : 27 Jun 2025 12:49
 Operator : JC\MD
 Sample : PB168627TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168627TB

Quant Time: Jun 27 23:43:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N062625W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 27 05:55:21 2025
 Response via : Initial Calibration

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

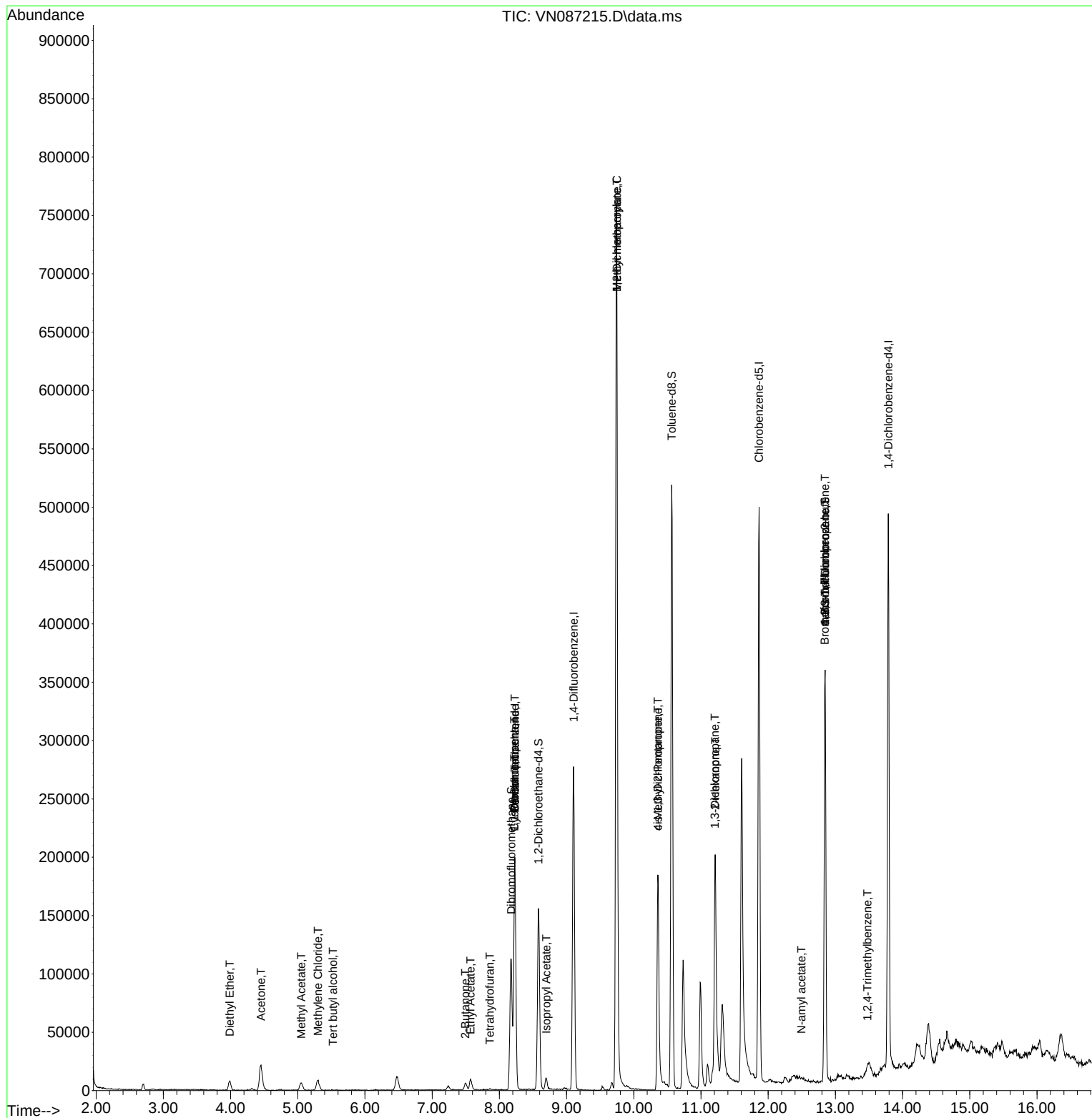
Internal Standards						
1) Pentafluorobenzene	8.230	168	148959	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	253602	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	296499	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	132802	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.583	65	128309	59.855	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 119.720%			
35) Dibromofluoromethane	8.177	113	85764	52.309	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 104.620%			
50) Toluene-d8	10.565	98	368525	54.346	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 108.700%			
62) 4-Bromofluorobenzene	12.847	95	142409	60.523	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 121.040%#			
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.989	74	4789	4.591	ug/l	98
11) Tert butyl alcohol	5.524	59	792	1.677	ug/l #	73
14) Allyl chloride	5.036	41	56	Below Cal	#	23
16) Acetone	4.453	43	44683	31.785	ug/l	99
17) Carbon Disulfide	4.736	76	459	Below Cal	#	76
18) Methyl Acetate	5.053	43	14249	4.602	ug/l	100
20) Methylene Chloride	5.300	84	7172	1.979	ug/l	96
25) 2-Butanone	7.494	43	10546	6.489	ug/l	99
29) Tetrahydrofuran	7.859	42	536	0.503	ug/l #	49
31) Cyclohexane	8.224	56	3697	1.114	ug/l #	21
36) 1,1-Dichloropropene	8.224	75	12621	5.255	ug/l #	48
37) Ethyl Acetate	7.571	43	13720	2.242	ug/l	98
38) Carbon Tetrachloride	8.230	117	14801	6.328	ug/l #	16
43) Isopropyl Acetate	8.700	43	11868	2.688	ug/l #	92
45) 1,2-Dichloropropane	9.747	63	867	0.453	ug/l #	44
48) Methyl methacrylate	9.747	41	73103	34.247	ug/l #	41
51) 4-Methyl-2-Pentanone	10.359	43	81622	23.116	ug/l #	45
54) cis-1,3-Dichloropropene	10.359	75	40698	13.178	ug/l #	68
56) Ethyl methacrylate	10.888	69	220	Below Cal	#	28
57) 1,3-Dichloropropane	11.206	76	2884	0.910	ug/l #	43
59) 2-Hexanone	11.212	43	43934	22.368	ug/l #	44
71) Bromoform	12.841	173	367	0.235	ug/l #	1
74) N-amyl acetate	12.494	43	1419	0.424	ug/l #	61
76) 1,2,3-Trichloropropane	12.847	75	68924	23.262	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	68924	52.209	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.476	105	1615	0.214	ug/l #	60

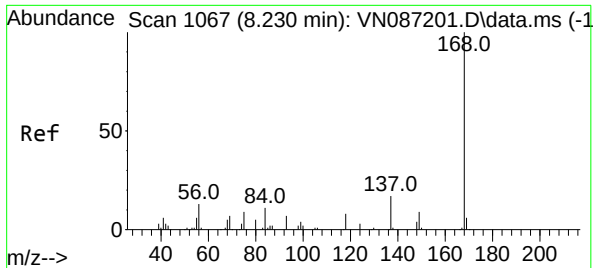
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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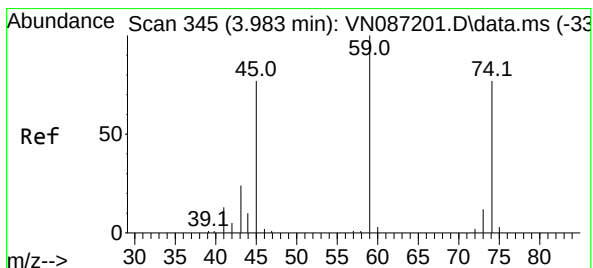
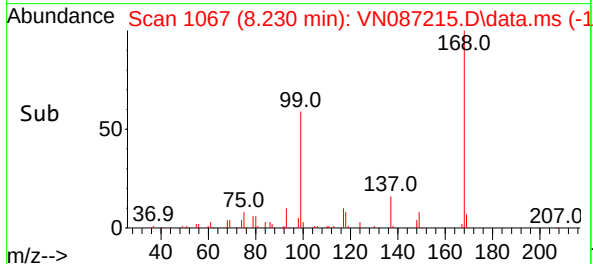
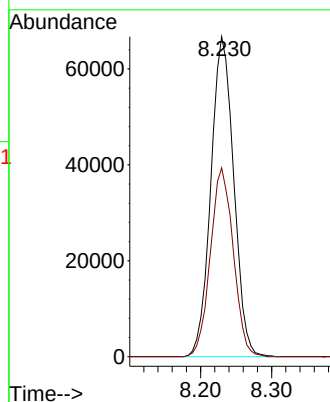
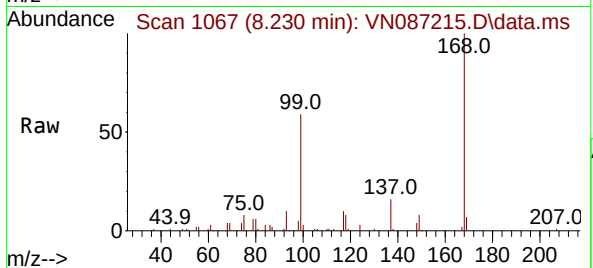




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.000 min
Lab File: VN087215.D
Acq: 27 Jun 2025 12:49

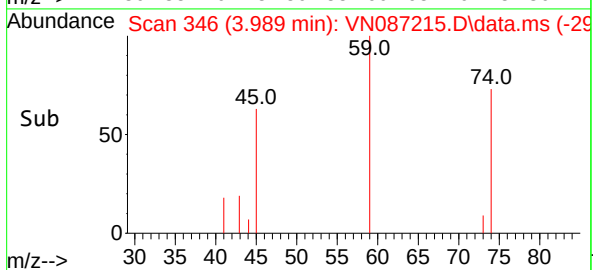
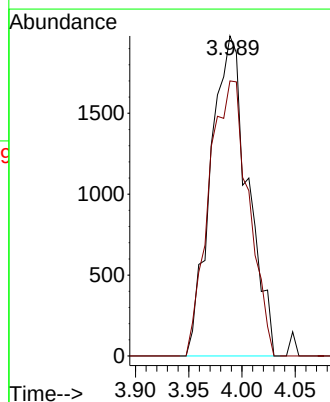
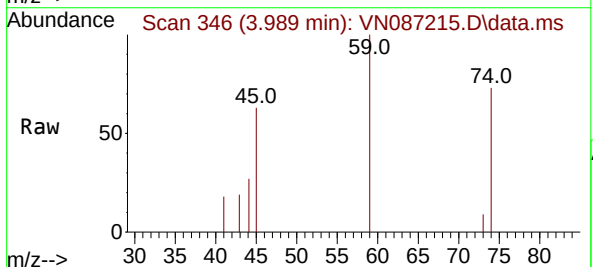
Instrument :
MSVOA_N
ClientSampleId :
PB168627TB

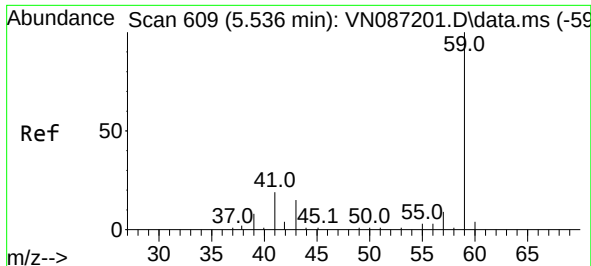
Tgt Ion:168 Resp: 148959
Ion Ratio Lower Upper
168 100
99 59.0 47.9 71.9



#8
Diethyl Ether
Concen: 4.591 ug/l
RT: 3.989 min Scan# 346
Delta R.T. 0.006 min
Lab File: VN087215.D
Acq: 27 Jun 2025 12:49

Tgt Ion: 74 Resp: 4789
Ion Ratio Lower Upper
74 100
45 91.8 47.0 141.2

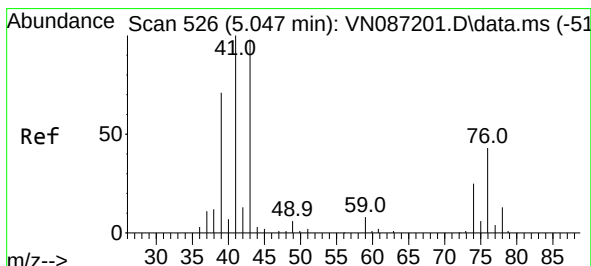
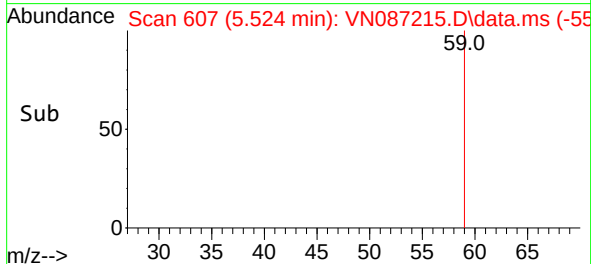
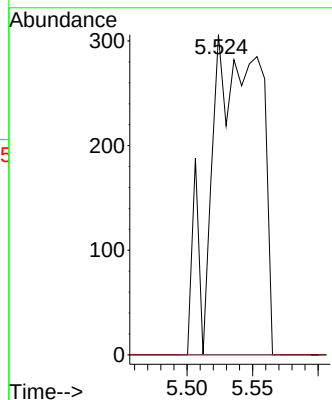
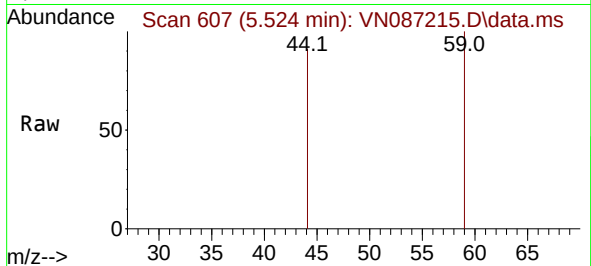




#11
Tert butyl alcohol
Concen: 1.677 ug/l
RT: 5.524 min Scan# 609
Delta R.T. -0.012 min
Lab File: VN087215.D
Acq: 27 Jun 2025 12:49

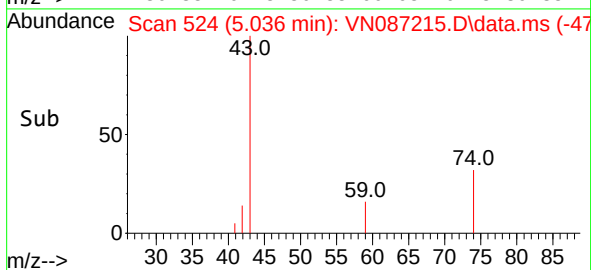
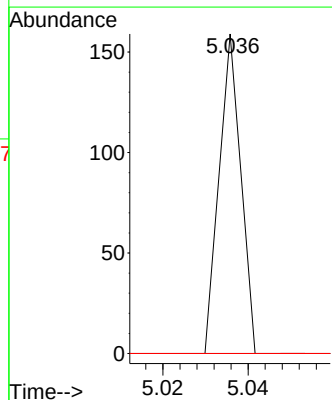
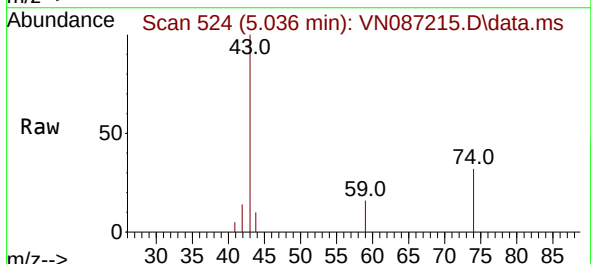
Instrument :
MSVOA_N
ClientSampleId :
PB168627TB

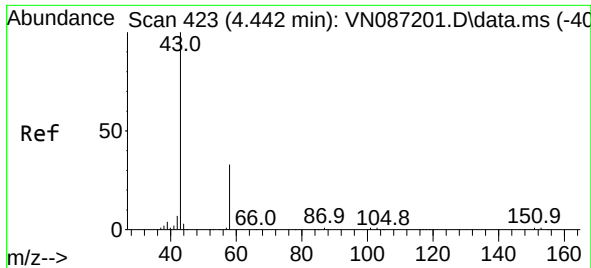
Tgt Ion: 59 Resp: 792
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#14
Allyl chloride
Concen: Below Cal
RT: 5.036 min Scan# 524
Delta R.T. -0.011 min
Lab File: VN087215.D
Acq: 27 Jun 2025 12:49

Tgt Ion: 41 Resp: 56
Ion Ratio Lower Upper
41 100
39 0.0 55.0 82.6#
76 0.0 31.3 46.9#

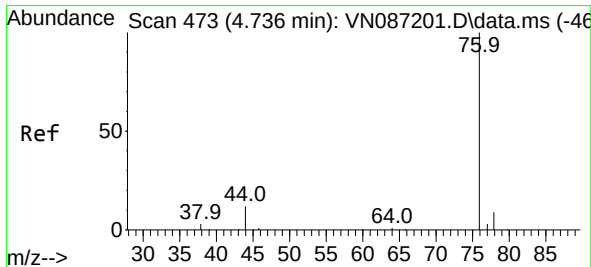
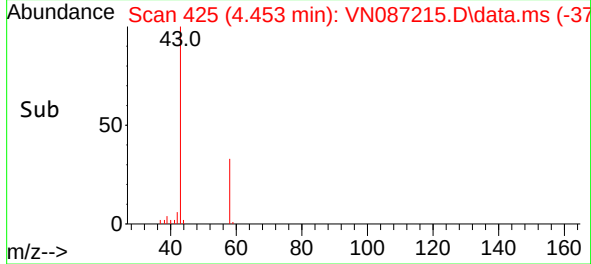
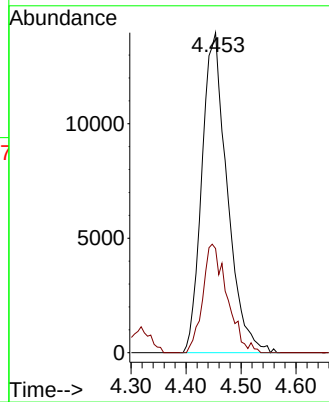
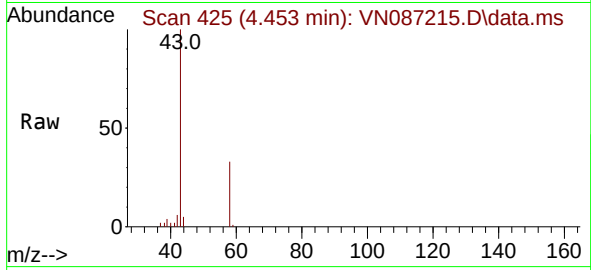




#16
Acetone
Concen: 31.785 ug/l
RT: 4.453 min Scan# 41
Delta R.T. 0.011 min
Lab File: VN087215.D
Acq: 27 Jun 2025 12:49

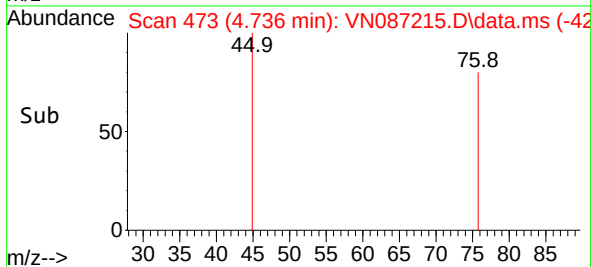
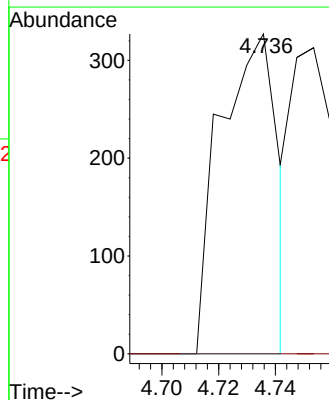
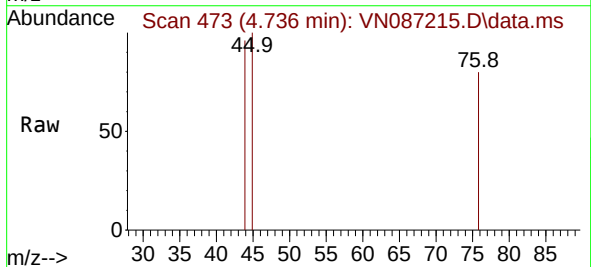
Instrument :
MSVOA_N
ClientSampleId :
PB168627TB

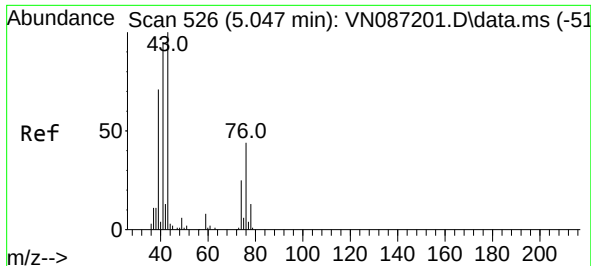
Tgt Ion: 43 Resp: 44683
Ion Ratio Lower Upper
43 100
58 32.6 26.5 39.7



#17
Carbon Disulfide
Concen: Below Cal
RT: 4.736 min Scan# 473
Delta R.T. -0.000 min
Lab File: VN087215.D
Acq: 27 Jun 2025 12:49

Tgt Ion: 76 Resp: 459
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.6#

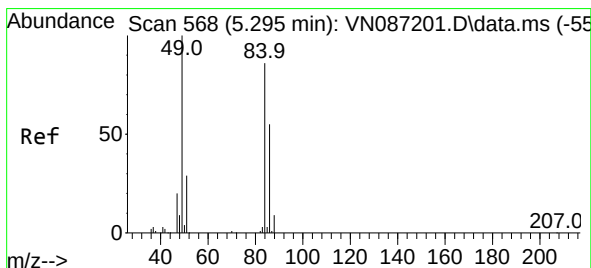
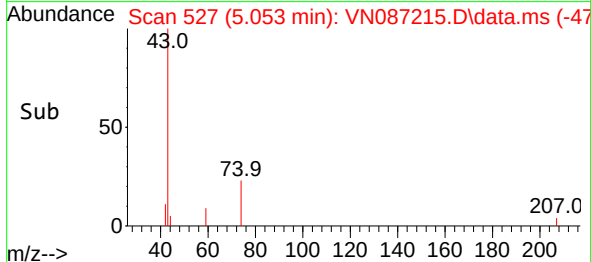
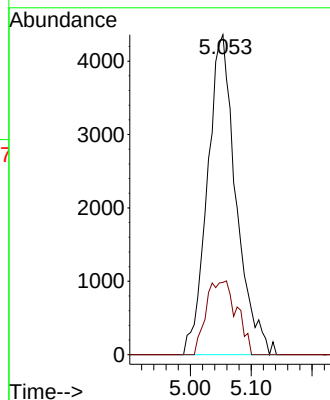
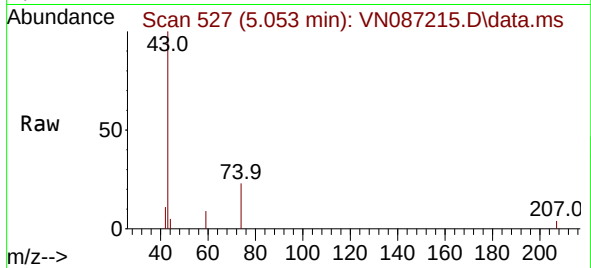




#18
Methyl Acetate
Concen: 4.602 ug/l
RT: 5.053 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN087215.D
Acq: 27 Jun 2025 12:49

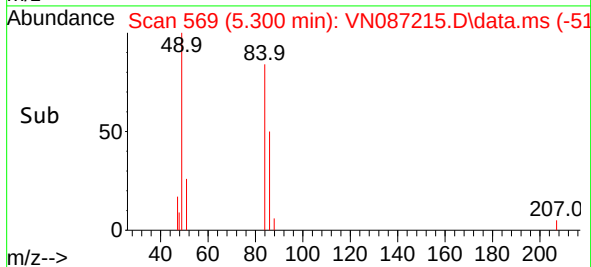
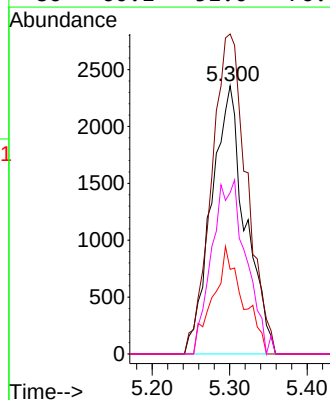
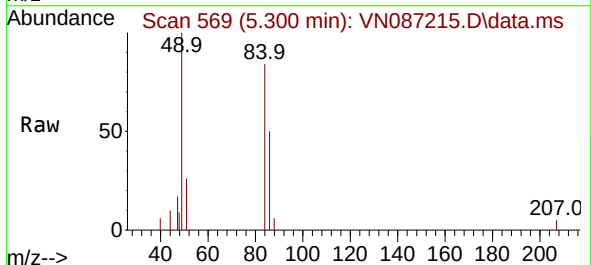
Instrument :
MSVOA_N
ClientSampleId :
PB168627TB

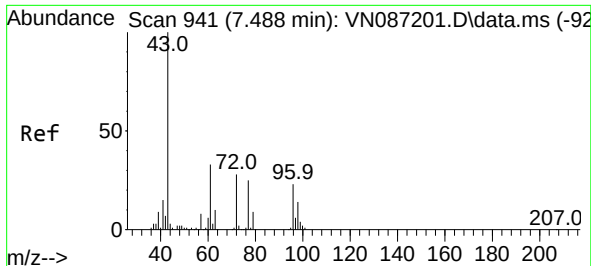
Tgt Ion: 43 Resp: 14249
Ion Ratio Lower Upper
43 100
74 24.5 19.4 29.2



#20
Methylene Chloride
Concen: 1.979 ug/l
RT: 5.300 min Scan# 569
Delta R.T. 0.005 min
Lab File: VN087215.D
Acq: 27 Jun 2025 12:49

Tgt Ion: 84 Resp: 7172
Ion Ratio Lower Upper
84 100
49 119.3 93.0 139.6
51 31.6 27.2 40.8
86 60.1 51.0 76.4

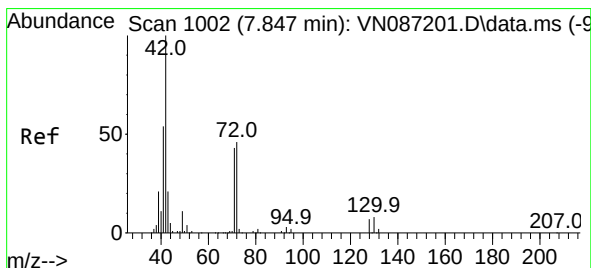
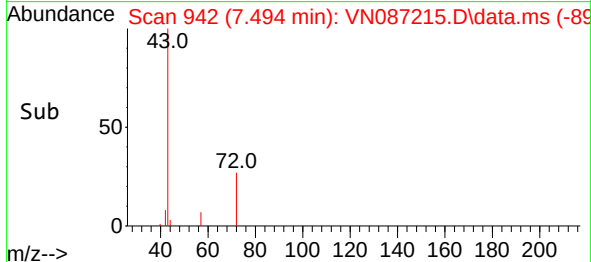
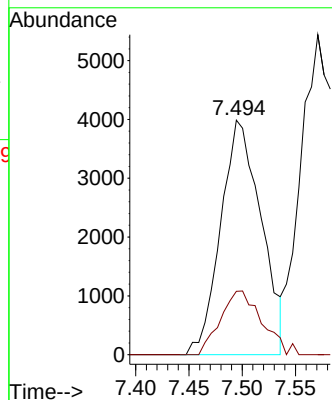
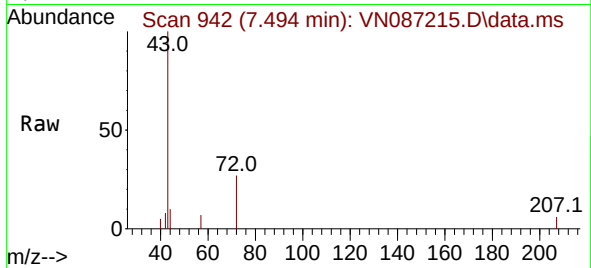




#25
2-Butanone
Concen: 6.489 ug/l
RT: 7.494 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN087215.D
Acq: 27 Jun 2025 12:49

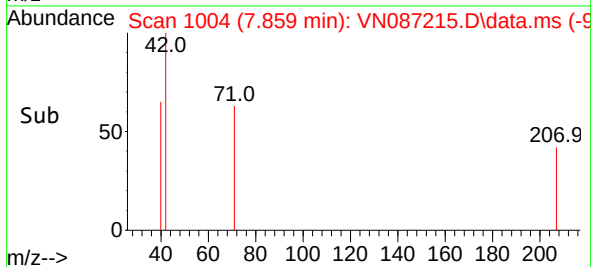
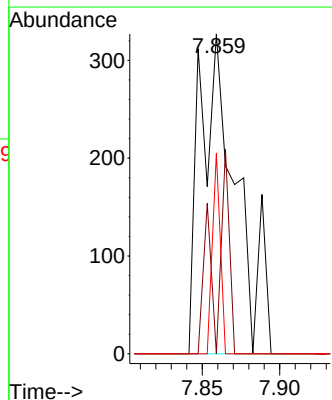
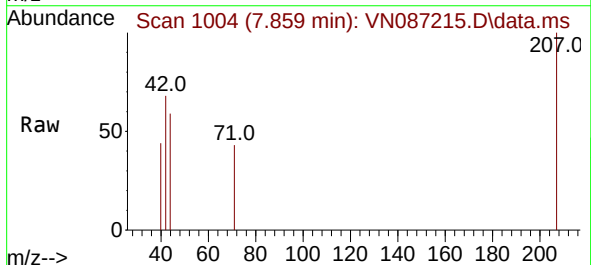
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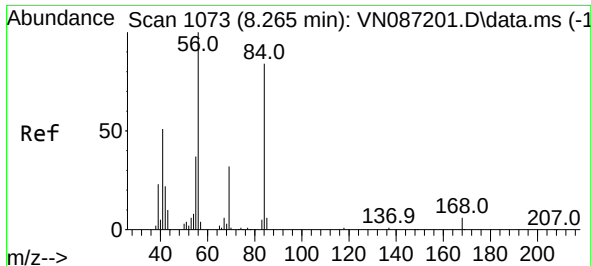
Tgt Ion: 43 Resp: 10546
Ion Ratio Lower Upper
43 100
72 27.0 22.2 33.2



#29
Tetrahydrofuran
Concen: 0.503 ug/l
RT: 7.859 min Scan# 1004
Delta R.T. 0.012 min
Lab File: VN087215.D
Acq: 27 Jun 2025 12:49

Tgt Ion: 42 Resp: 536
Ion Ratio Lower Upper
42 100
72 10.1 36.9 55.3#
71 13.4 35.0 52.4#

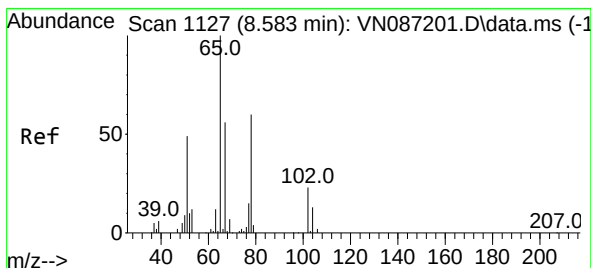
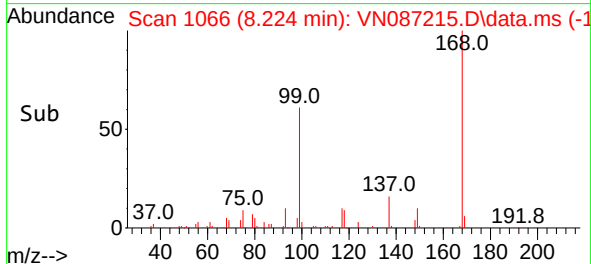
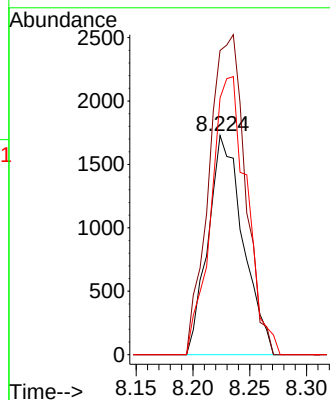
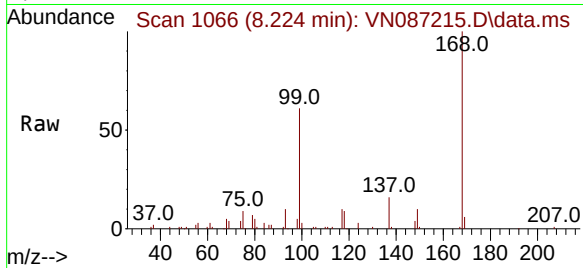




#31
Cyclohexane
Concen: 1.114 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.041 min
Lab File: VN087215.D
Acq: 27 Jun 2025 12:49

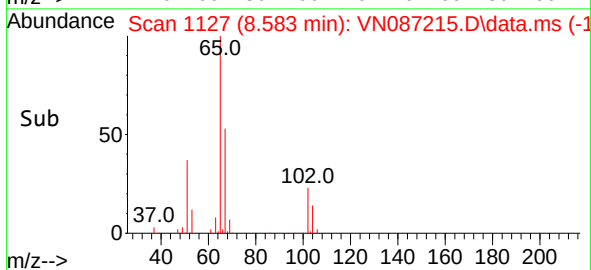
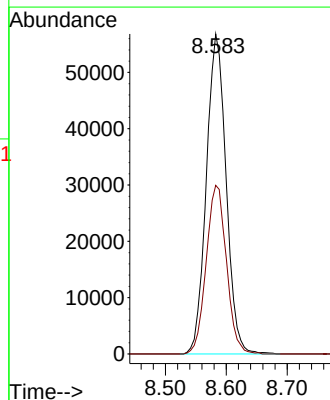
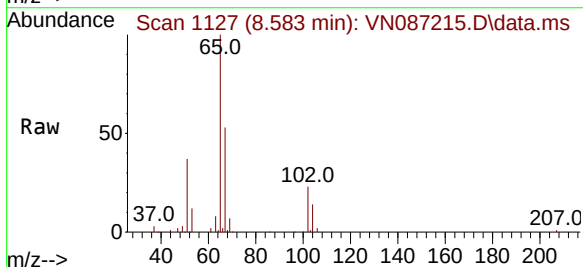
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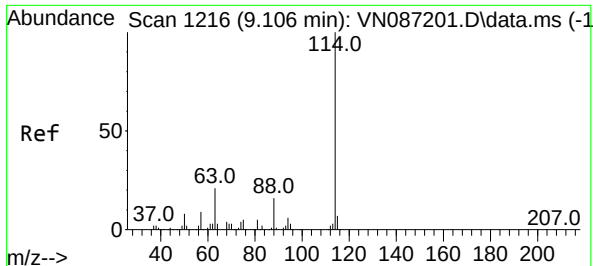
Tgt Ion: 56 Resp: 3697
Ion Ratio Lower Upper
56 100
69 138.8 25.3 37.9#
84 117.1 67.4 101.0#



#33
1,2-Dichloroethane-d4
Concen: 59.855 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.000 min
Lab File: VN087215.D
Acq: 27 Jun 2025 12:49

Tgt Ion: 65 Resp: 128309
Ion Ratio Lower Upper
65 100
67 53.9 0.0 108.0

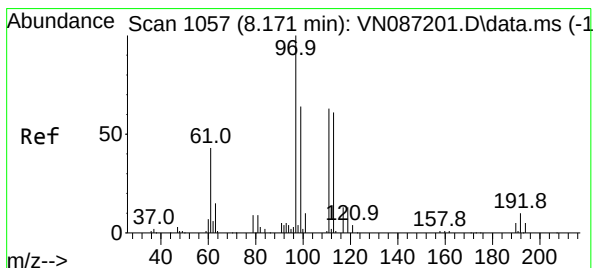
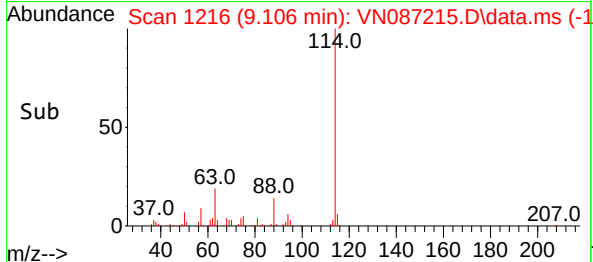
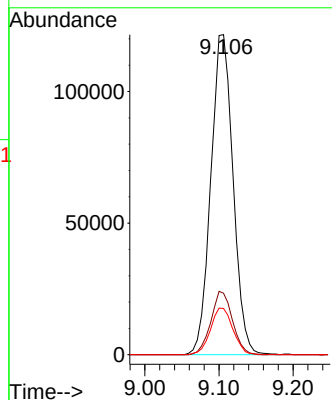
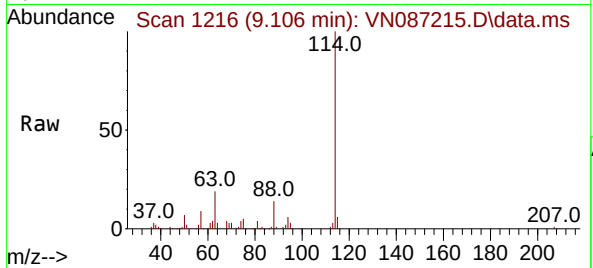




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087215.D
Acq: 27 Jun 2025 12:49

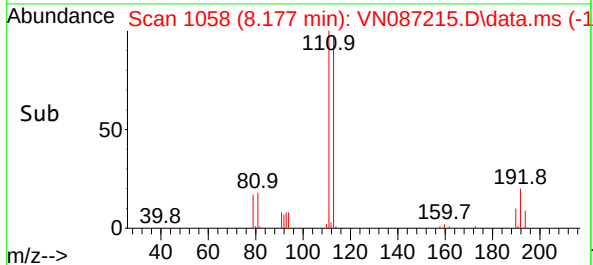
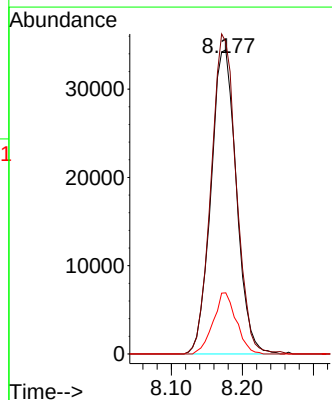
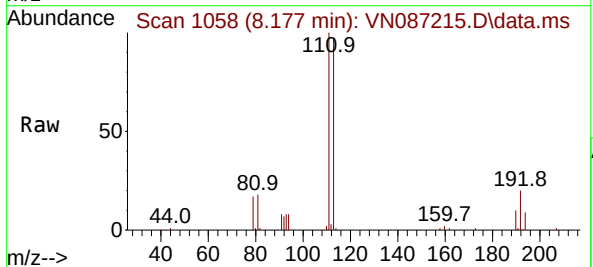
Instrument :
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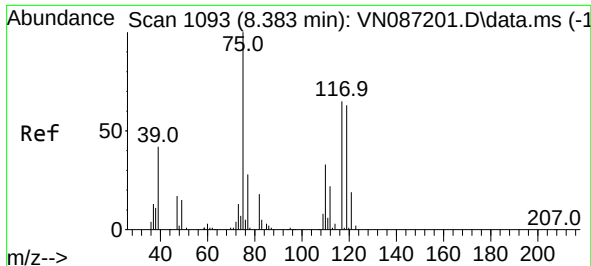
Tgt Ion:114 Resp: 253602
Ion Ratio Lower Upper
114 100
63 19.2 0.0 42.0
88 14.5 0.0 32.0



#35
Dibromofluoromethane
Concen: 52.309 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN087215.D
Acq: 27 Jun 2025 12:49

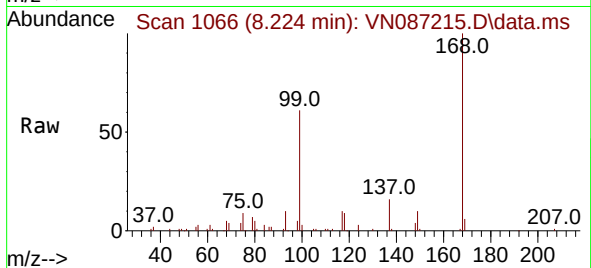
Tgt Ion:113 Resp: 85764
Ion Ratio Lower Upper
113 100
111 103.9 82.6 124.0
192 18.2 13.5 20.3



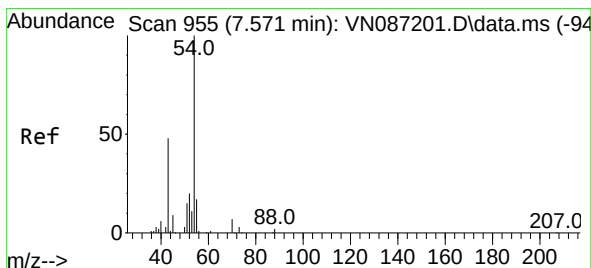
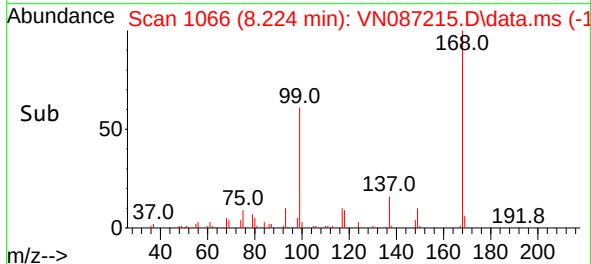
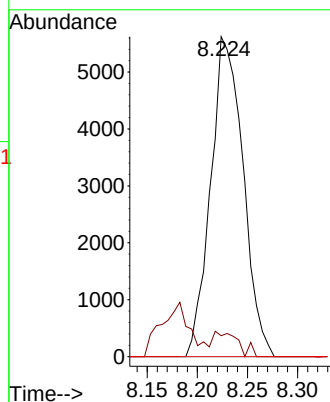


#36
1,1-Dichloropropene
Concen: 5.255 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.159 min
Lab File: VN087215.D
Acq: 27 Jun 2025 12:49

Instrument :
MSVOA_N
ClientSampleId :
PB168627TB

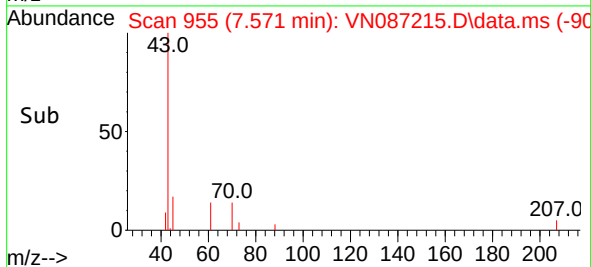
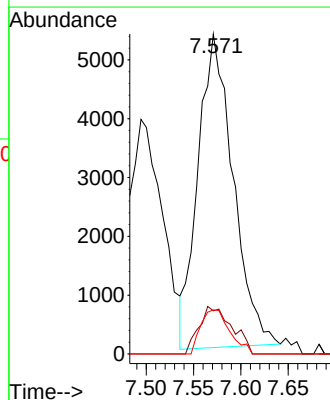
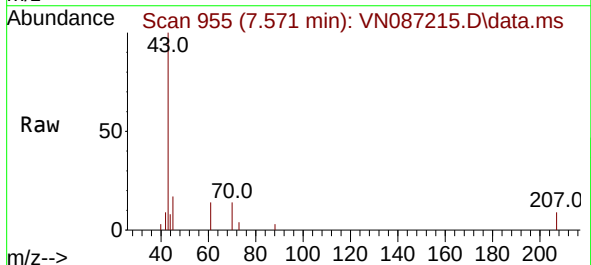


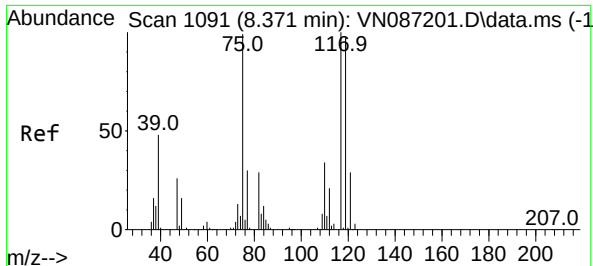
Tgt Ion: 75 Resp: 12621
Ion Ratio Lower Upper
75 100
110 6.0 16.9 50.6#
77 0.0 24.7 37.1#



#37
Ethyl Acetate
Concen: 2.242 ug/l
RT: 7.571 min Scan# 955
Delta R.T. -0.000 min
Lab File: VN087215.D
Acq: 27 Jun 2025 12:49

Tgt Ion: 43 Resp: 13720
Ion Ratio Lower Upper
43 100
61 14.2 10.8 16.2
70 11.7 8.9 13.3

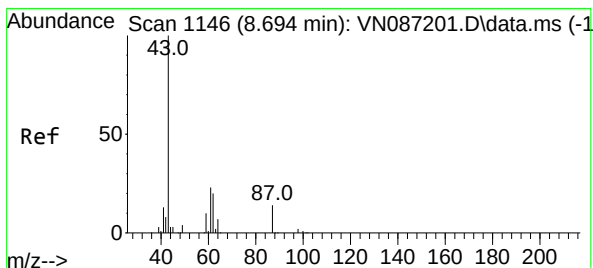
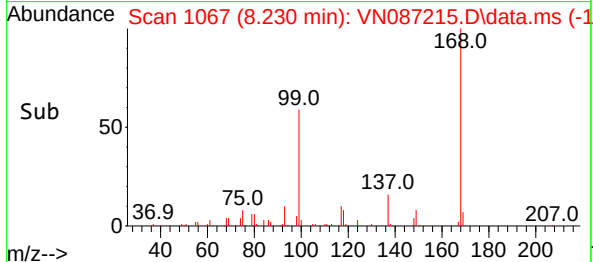
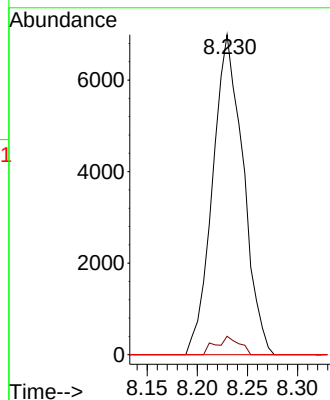
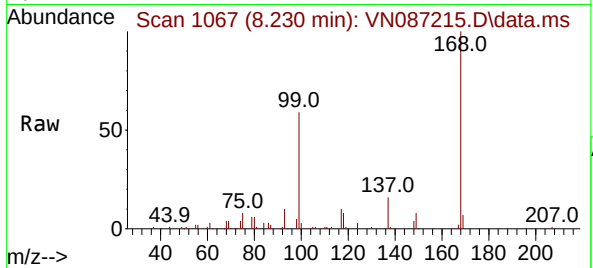




#38
Carbon Tetrachloride
Concen: 6.328 ug/l
RT: 8.230 min Scan# 1107
Delta R.T. -0.141 min
Lab File: VN087215.D
Acq: 27 Jun 2025 12:49

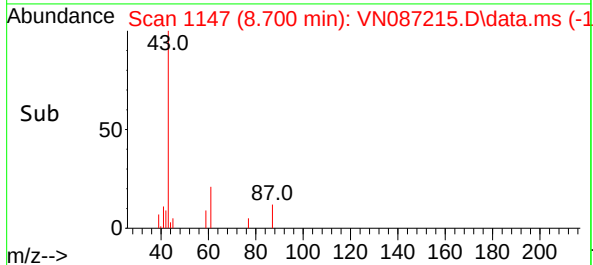
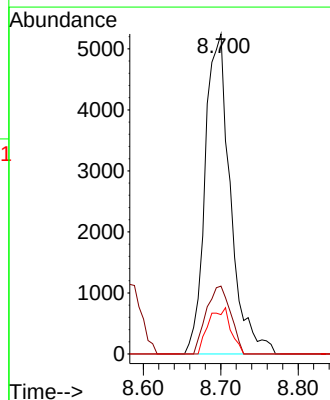
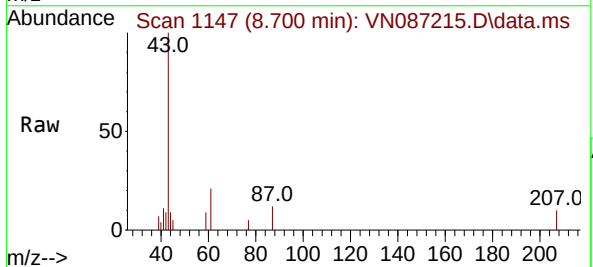
Instrument :
MSVOA_N
ClientSampleId :
PB168627TB

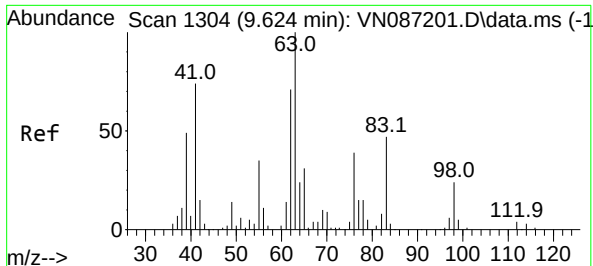
Tgt Ion:117 Resp: 14801
Ion Ratio Lower Upper
117 100
119 5.8 77.4 116.0#
121 0.0 23.2 34.8#



#43
Isopropyl Acetate
Concen: 2.688 ug/l
RT: 8.700 min Scan# 1147
Delta R.T. 0.006 min
Lab File: VN087215.D
Acq: 27 Jun 2025 12:49

Tgt Ion: 43 Resp: 11868
Ion Ratio Lower Upper
43 100
61 20.5 21.0 31.6#
87 12.7 11.0 16.6





#45

1,2-Dichloropropane

Concen: 0.453 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.124 min

Lab File: VN087215.D

Acq: 27 Jun 2025 12:49

Instrument :

MSVOA_N

ClientSampleId :

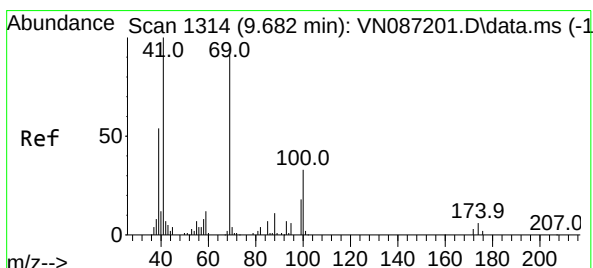
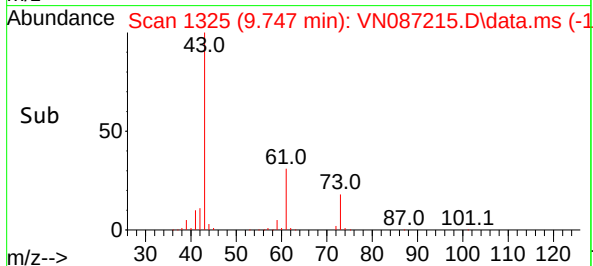
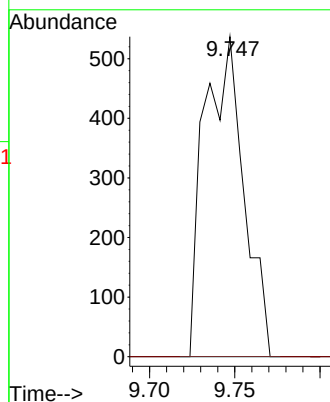
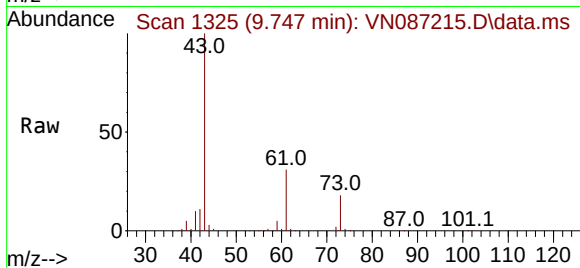
PB168627TB

Tgt Ion: 63 Resp: 867

Ion Ratio Lower Upper

63 100

65 0.0 24.7 37.1#



#48

Methyl methacrylate

Concen: 34.247 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.065 min

Lab File: VN087215.D

Acq: 27 Jun 2025 12:49

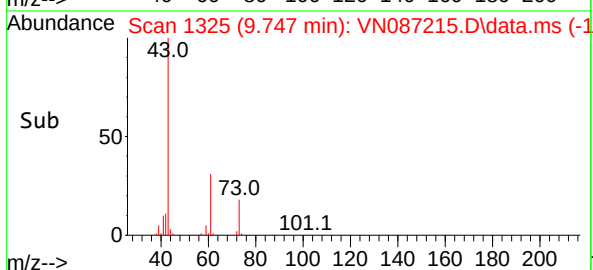
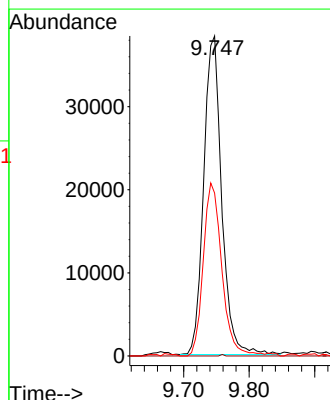
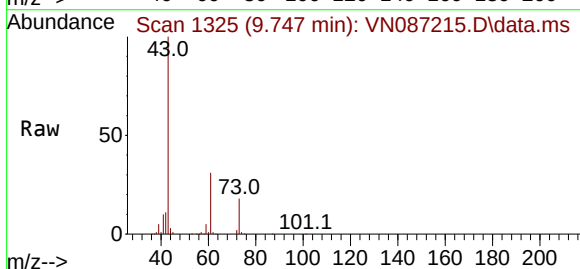
Tgt Ion: 41 Resp: 73103

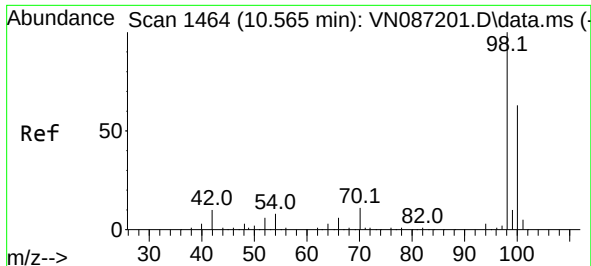
Ion Ratio Lower Upper

41 100

69 0.1 69.9 104.9#

39 56.2 43.8 65.6

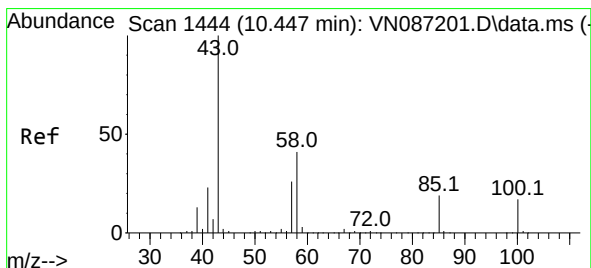
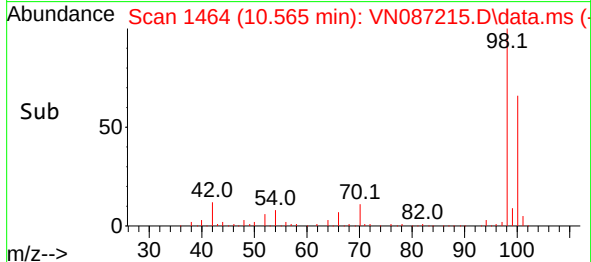
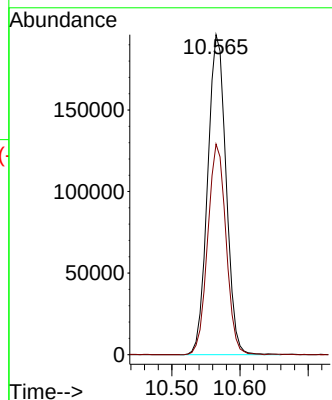
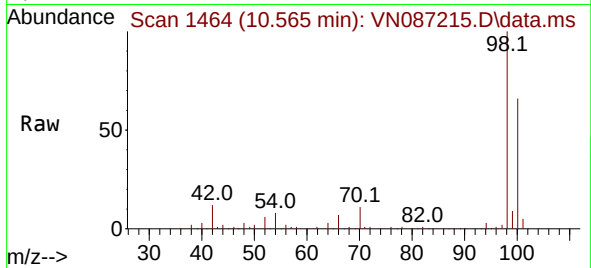




#50
Toluene-d8
Concen: 54.346 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN087215.D
Acq: 27 Jun 2025 12:49

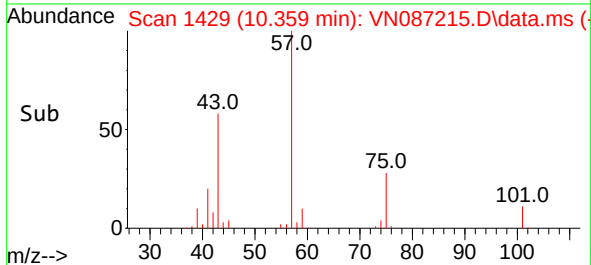
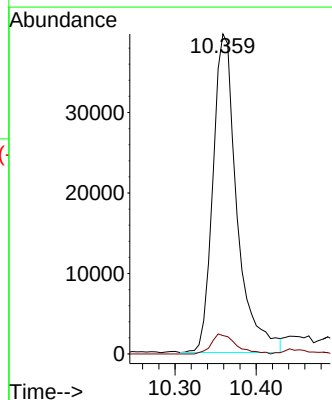
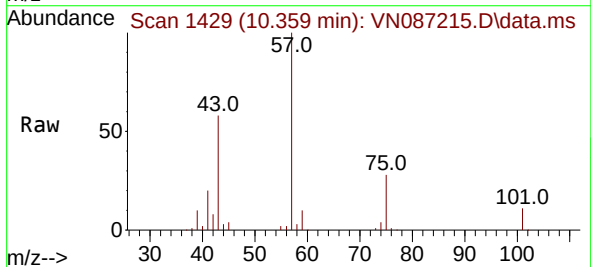
Instrument :
MSVOA_N
ClientSampleId :
PB168627TB

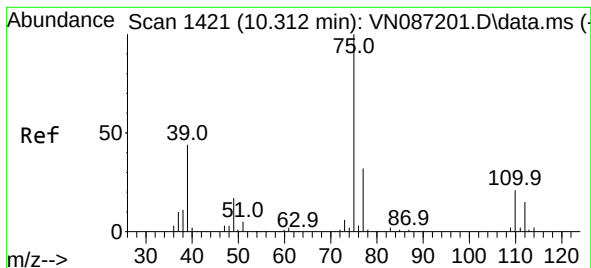
Tgt Ion: 98 Resp: 368525
Ion Ratio Lower Upper
98 100
100 65.4 52.7 79.1



#51
4-Methyl-2-Pentanone
Concen: 23.116 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. -0.088 min
Lab File: VN087215.D
Acq: 27 Jun 2025 12:49

Tgt Ion: 43 Resp: 81622
Ion Ratio Lower Upper
43 100
58 6.4 32.6 48.8#

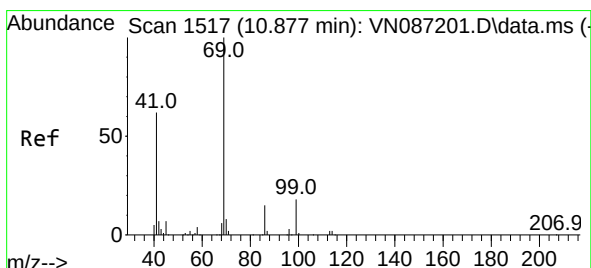
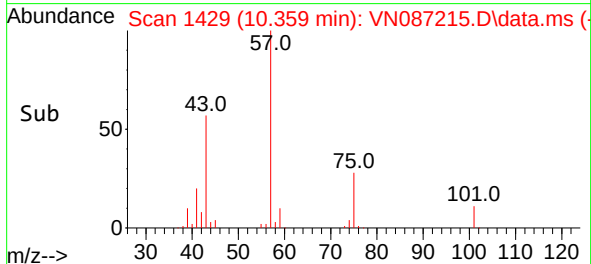
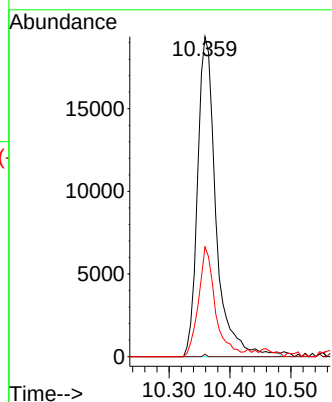
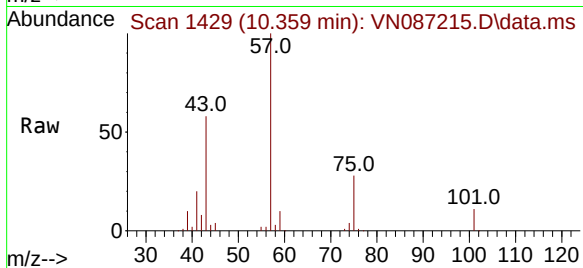




#54
 cis-1,3-Dichloropropene
 Concen: 13.178 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN087215.D
 Acq: 27 Jun 2025 12:49

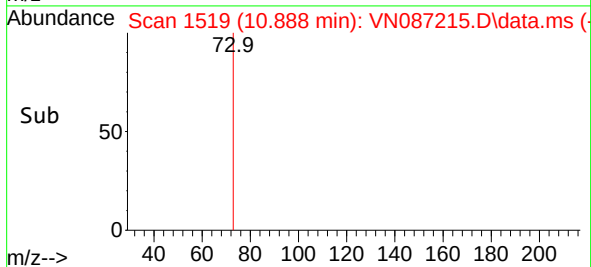
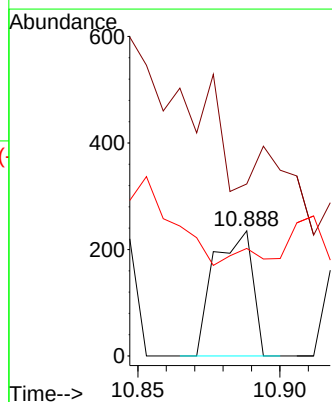
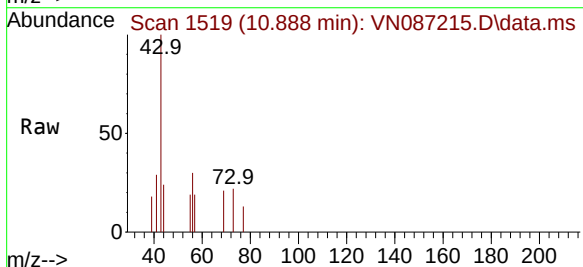
Instrument :
 MSVOA_N
 ClientSampleId :
 PB168627TB

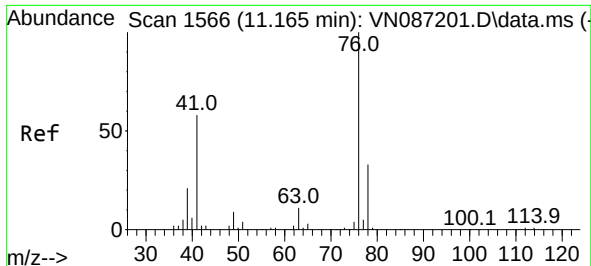
Tgt Ion: 75 Resp: 40698
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.4 38.2#
 39 34.3 34.9 52.3#



#56
 Ethyl methacrylate
 Concen: Below Cal
 RT: 10.888 min Scan# 1519
 Delta R.T. 0.011 min
 Lab File: VN087215.D
 Acq: 27 Jun 2025 12:49

Tgt Ion: 69 Resp: 220
 Ion Ratio Lower Upper
 69 100
 41 0.0 48.4 72.6#
 39 0.0 24.1 36.1#





#57

1,3-Dichloropropane

Concen: 0.910 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.041 min

Lab File: VN087215.D

Acq: 27 Jun 2025 12:49

Instrument :

MSVOA_N

ClientSampleId :

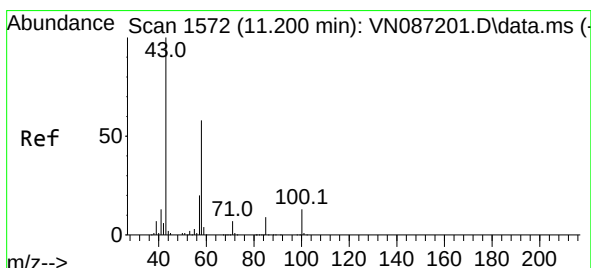
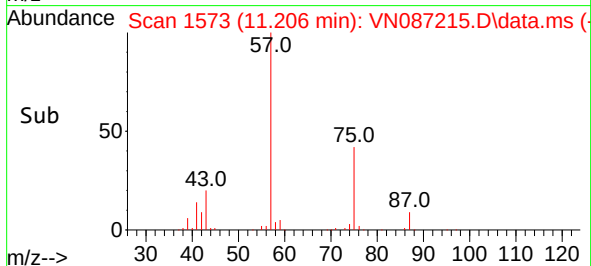
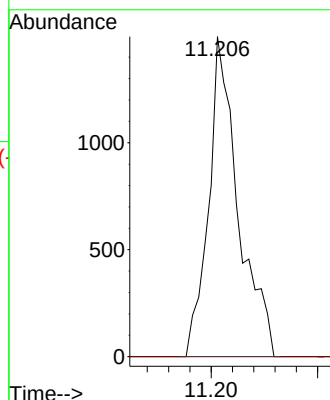
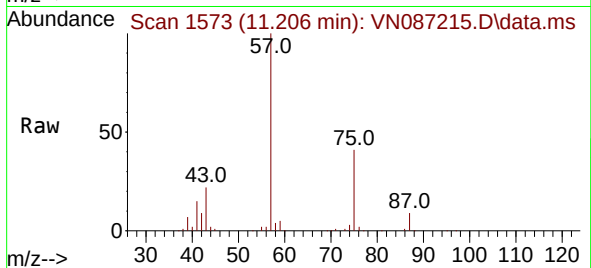
PB168627TB

Tgt Ion: 76 Resp: 2884

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 22.368 ug/l

RT: 11.212 min Scan# 1574

Delta R.T. 0.012 min

Lab File: VN087215.D

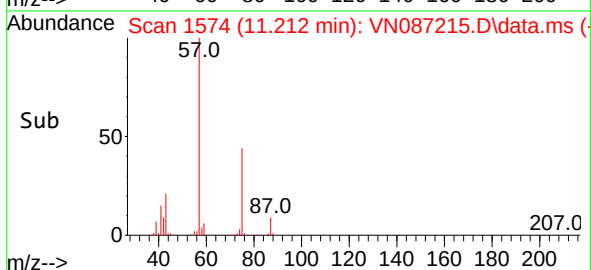
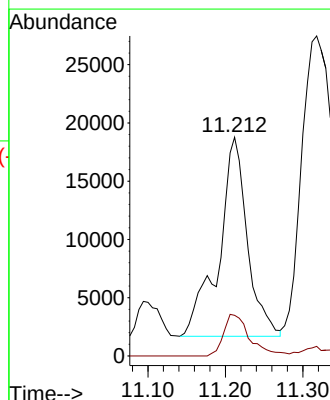
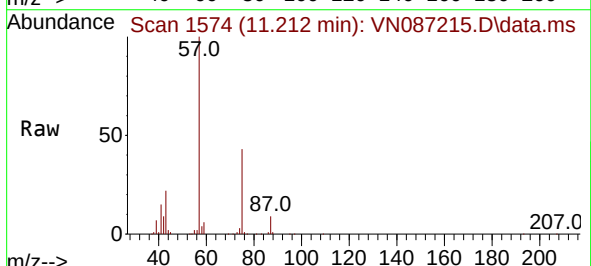
Acq: 27 Jun 2025 12:49

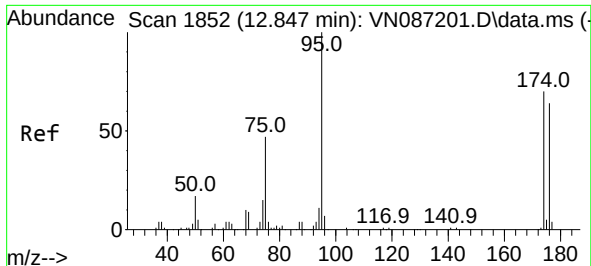
Tgt Ion: 43 Resp: 43934

Ion Ratio Lower Upper

43 100

58 19.2 31.1 93.3#

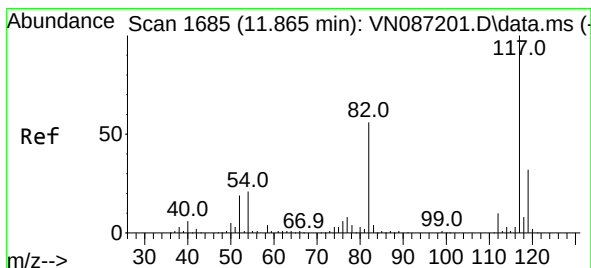
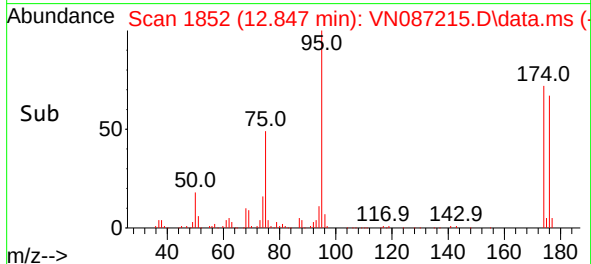
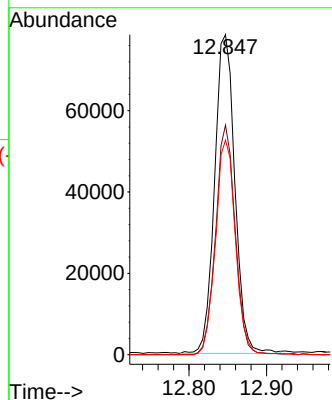
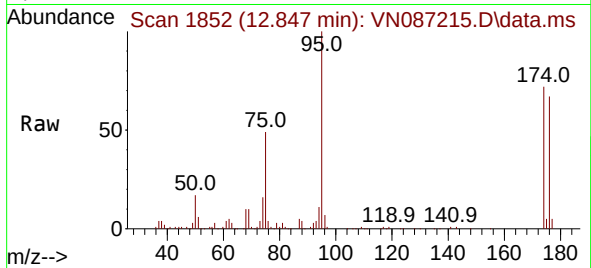




#62
4-Bromofluorobenzene
Concen: 60.523 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN087215.D
Acq: 27 Jun 2025 12:49

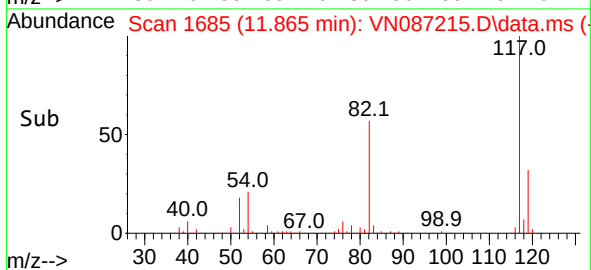
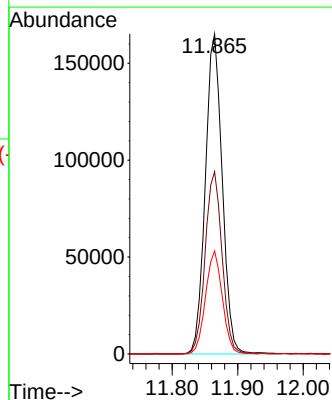
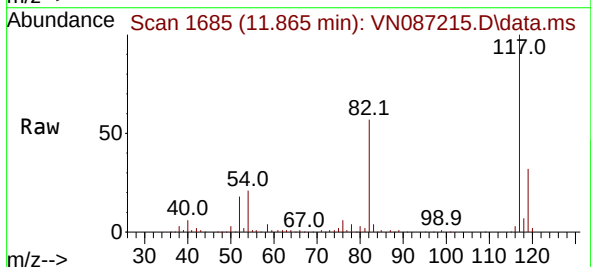
Instrument :
MSVOA_N
ClientSampleId :
PB168627TB

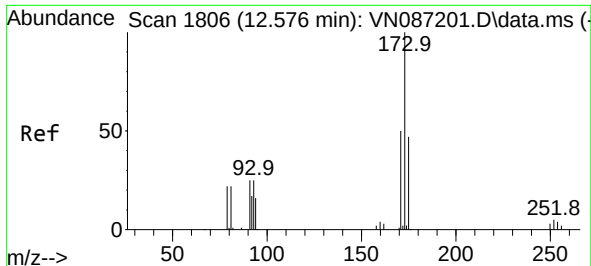
Tgt Ion: 95 Resp: 142409
Ion Ratio Lower Upper
95 100
174 69.3 0.0 142.2
176 66.0 0.0 134.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN087215.D
Acq: 27 Jun 2025 12:49

Tgt Ion: 117 Resp: 296499
Ion Ratio Lower Upper
117 100
82 56.8 45.0 67.4
119 32.2 25.9 38.9

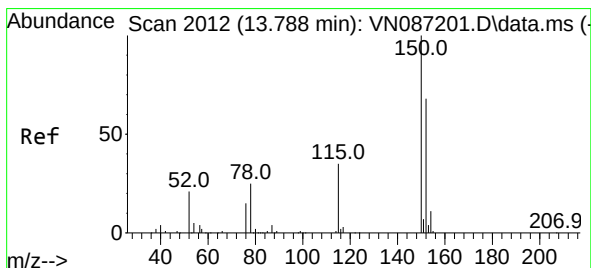
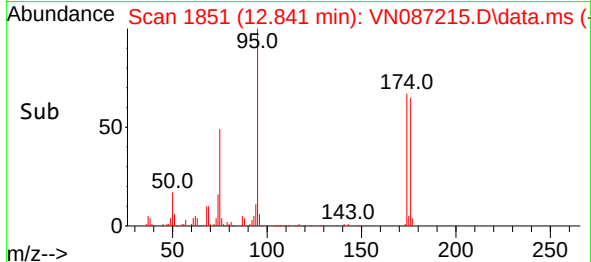
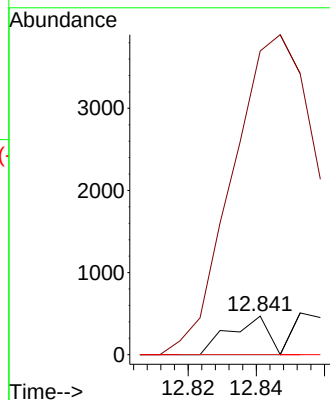
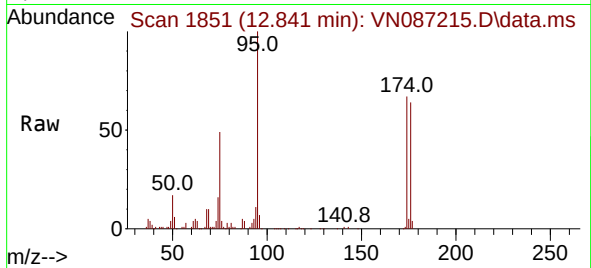




#71
Bromoform
Concen: 0.235 ug/l
RT: 12.841 min Scan# 1806
Delta R.T. 0.265 min
Lab File: VN087215.D
Acq: 27 Jun 2025 12:49

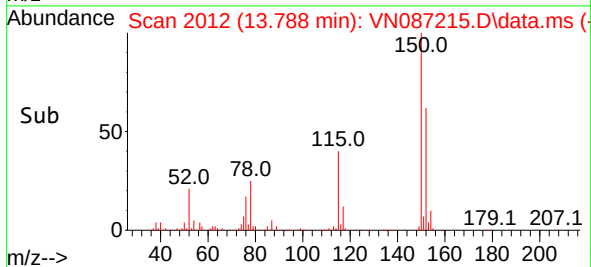
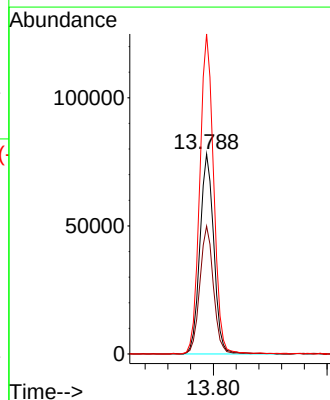
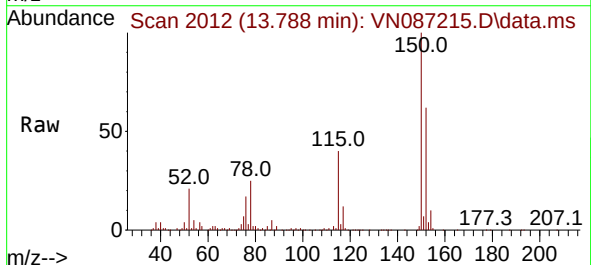
Instrument :
MSVOA_N
ClientSampleId :
PB168627TB

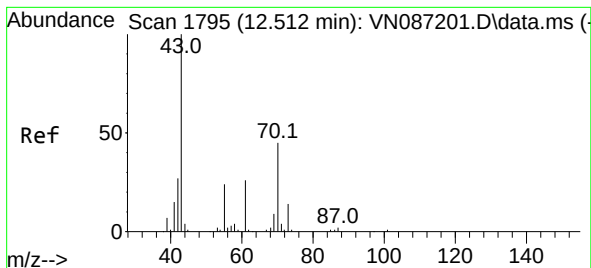
Tgt Ion:173 Resp: 367
Ion Ratio Lower Upper
173 100
175 1521.5 23.8 71.2#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN087215.D
Acq: 27 Jun 2025 12:49

Tgt Ion:152 Resp: 132802
Ion Ratio Lower Upper
152 100
115 62.9 30.6 91.8
150 159.4 0.0 347.8





#74

N-amy1 acetate

Concen: 0.424 ug/l

RT: 12.494 min Scan# 1

Delta R.T. -0.018 min

Lab File: VN087215.D

Acq: 27 Jun 2025 12:49

Instrument :

MSVOA_N

ClientSampleId :

PB168627TB

Tgt Ion: 43 Resp: 1419

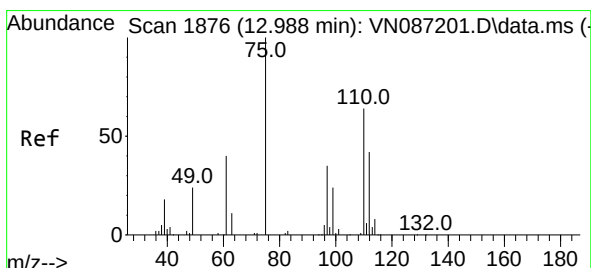
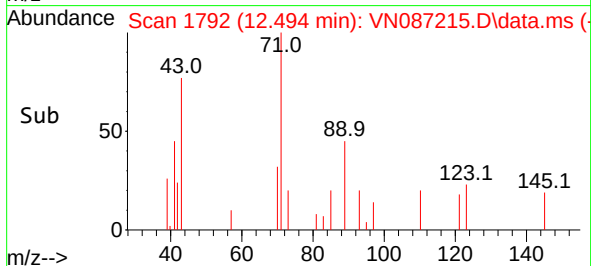
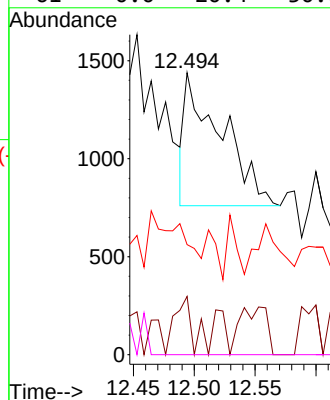
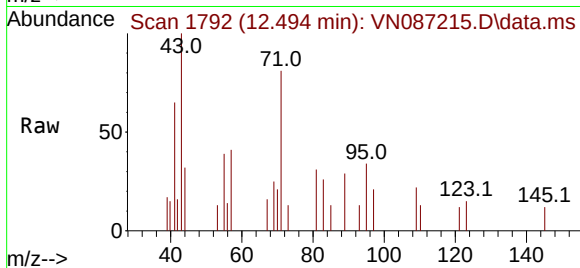
Ion Ratio Lower Upper

43 100

70 22.5 32.8 49.2#

55 0.0 16.4 24.6#

61 0.0 20.4 30.6#



#76

1,2,3-Trichloropropane

Concen: 23.262 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN087215.D

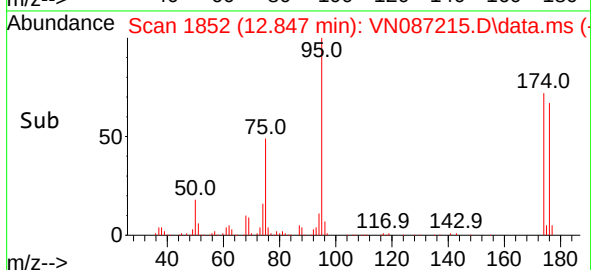
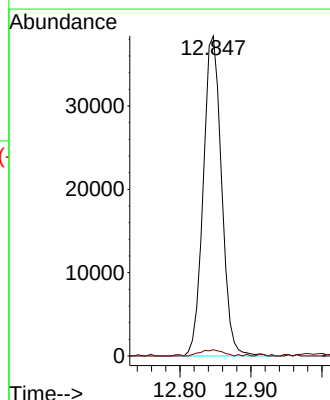
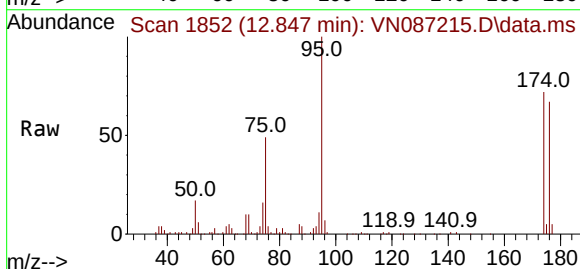
Acq: 27 Jun 2025 12:49

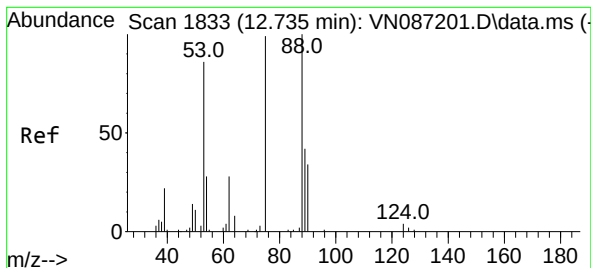
Tgt Ion: 75 Resp: 68924

Ion Ratio Lower Upper

75 100

77 2.4 85.5 256.6#

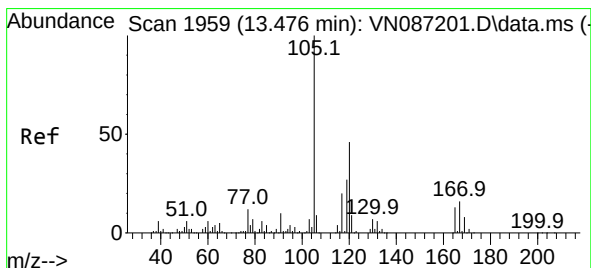
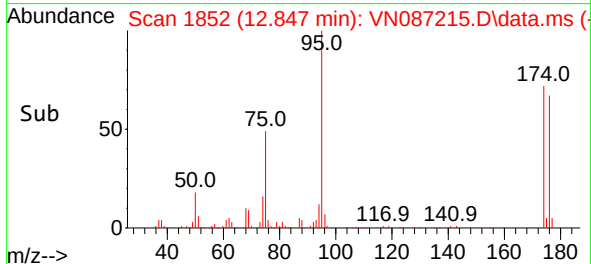
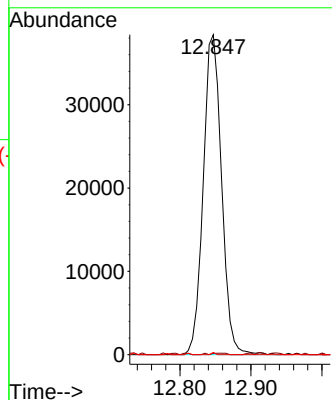
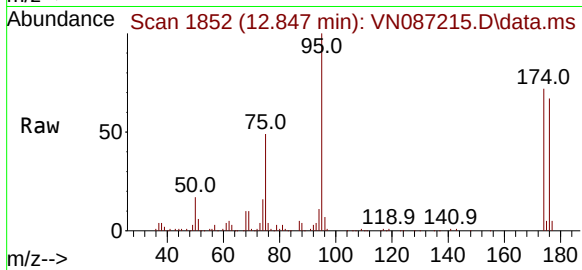




#81
 trans-1,4-Dichloro-2-butene
 Concen: 52.209 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. 0.112 min
 Lab File: VN087215.D
 Acq: 27 Jun 2025 12:49

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168627TB

Tgt Ion: 75 Resp: 68924
 Ion Ratio Lower Upper
 75 100
 53 0.4 71.4 107.0#
 89 0.1 37.9 56.9#



#84
 1,2,4-Trimethylbenzene
 Concen: 0.214 ug/l
 RT: 13.476 min Scan# 1959
 Delta R.T. 0.000 min
 Lab File: VN087215.D
 Acq: 27 Jun 2025 12:49

Tgt Ion: 105 Resp: 1615
 Ion Ratio Lower Upper
 105 100
 120 19.4 22.9 68.8#

