

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062725\
 Data File : VN087220.D
 Acq On : 27 Jun 2025 14:32
 Operator : JC\MD
 Sample : Q2429-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-4

Quant Time: Jun 27 23:45:16 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)

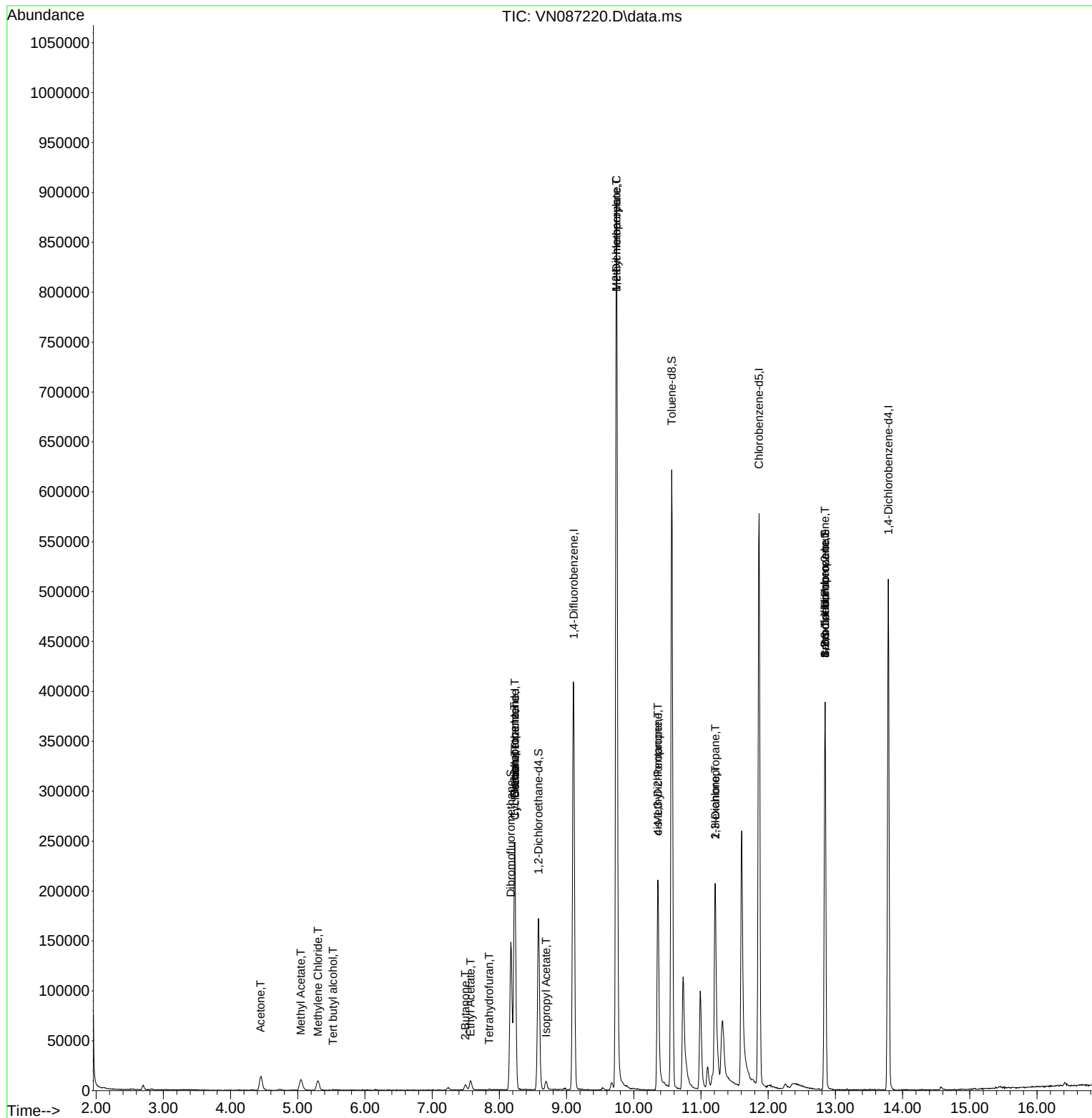
Internal Standards						
1) Pentafluorobenzene	8.229	168	187998	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	375149	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	349381	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	140321	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	141233	52.203	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 104.400%		
35) Dibromofluoromethane	8.171	113	111804	46.098	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 92.200%		
50) Toluene-d8	10.565	98	443353	44.198	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 88.400%		
62) 4-Bromofluorobenzene	12.847	95	146938	42.215	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 84.420%		
Target Compounds						
						Qvalue
11) Tert butyl alcohol	5.524	59	442	0.741	ug/l #	73
14) Allyl chloride	5.030	41	55	Below Cal	#	23
16) Acetone	4.447	43	29182	8.908	ug/l	92
17) Carbon Disulfide	4.736	76	1172	Below Cal	#	76
18) Methyl Acetate	5.047	43	23799	6.420	ug/l	97
20) Methylene Chloride	5.300	84	7846	1.447	ug/l	97
25) 2-Butanone	7.494	43	8968	4.372	ug/l	99
29) Tetrahydrofuran	7.847	42	723	0.538	ug/l #	43
31) Cyclohexane	8.235	56	3913	0.934	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	14858	4.182	ug/l #	49
37) Ethyl Acetate	7.571	43	15775	1.207	ug/l	96
38) Carbon Tetrachloride	8.229	117	18706	5.407	ug/l #	15
43) Isopropyl Acetate	8.694	43	10500	1.608	ug/l #	92
45) 1,2-Dichloropropane	9.741	63	1207	0.427	ug/l #	44
48) Methyl methacrylate	9.741	41	79882	25.298	ug/l #	40
51) 4-Methyl-2-Pentanone	10.359	43	90511	16.763	ug/l #	46
54) cis-1,3-Dichloropropene	10.359	75	47607	10.420	ug/l #	58
56) Ethyl methacrylate	10.994	69	548	Below Cal	#	1
57) 1,3-Dichloropropane	11.212	76	3120	0.665	ug/l #	43
59) 2-Hexanone	11.212	43	37024	12.742	ug/l #	52
71) Bromoform	12.847	173	829	0.451	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	74261	23.720	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	74261	53.237	ug/l #	13

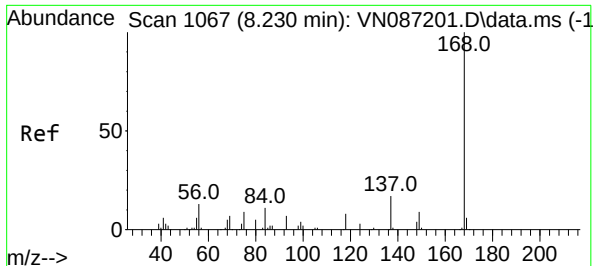
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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Response via : Initial Calibration

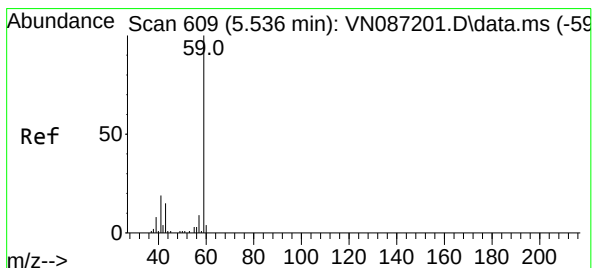
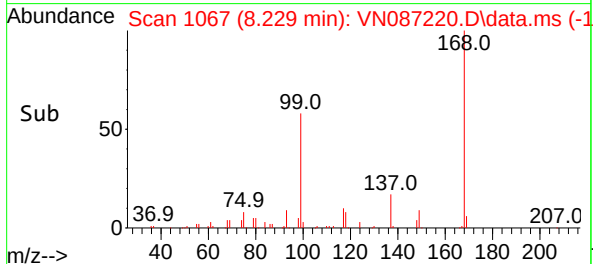
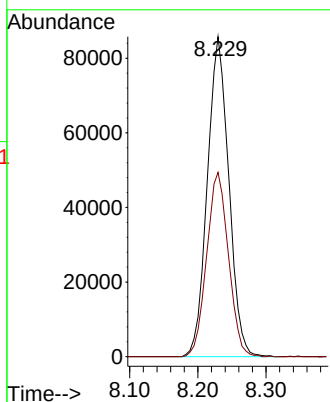
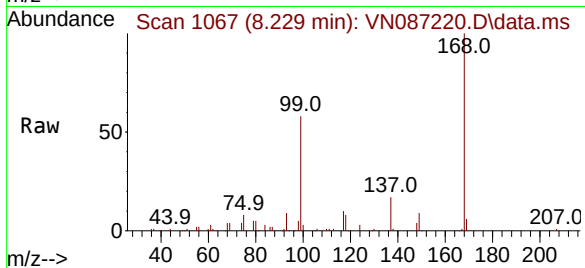




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.001 min
Lab File: VN087220.D
Acq: 27 Jun 2025 14:32

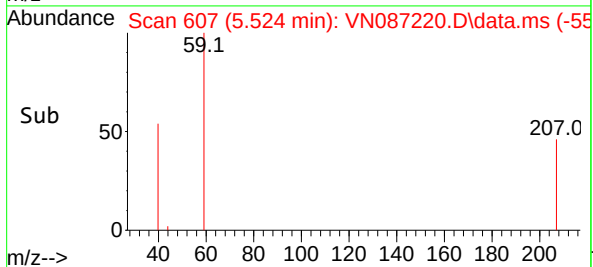
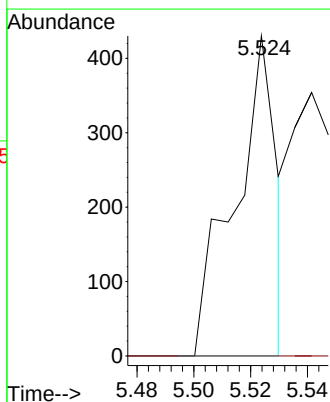
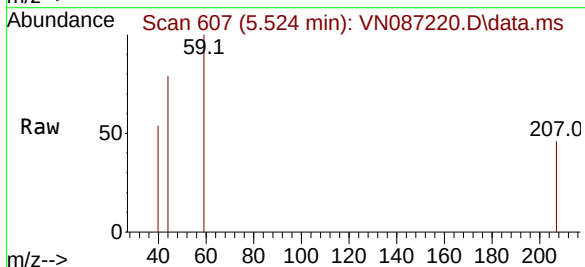
Instrument :
MSVOA_N
ClientSampleId :
TP-4

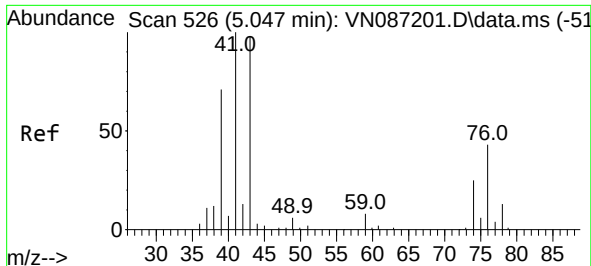
Tgt Ion:168 Resp: 187998
Ion Ratio Lower Upper
168 100
99 57.6 47.9 71.9



#11
Tert butyl alcohol
Concen: 0.741 ug/l
RT: 5.524 min Scan# 607
Delta R.T. -0.012 min
Lab File: VN087220.D
Acq: 27 Jun 2025 14:32

Tgt Ion: 59 Resp: 442
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

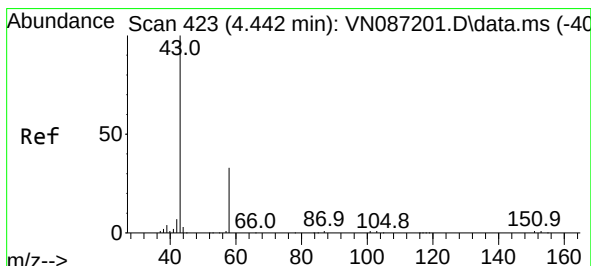
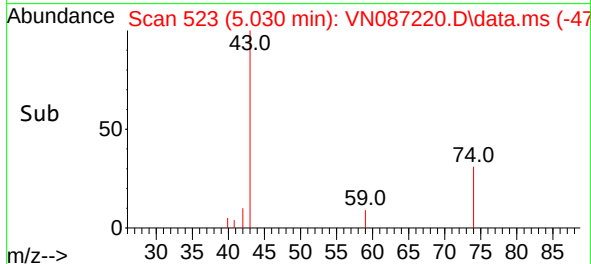
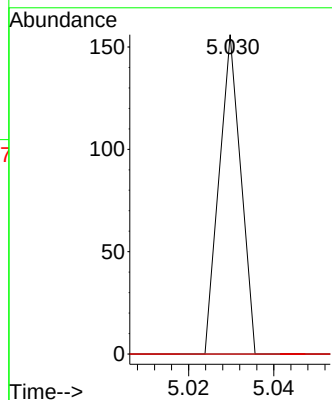
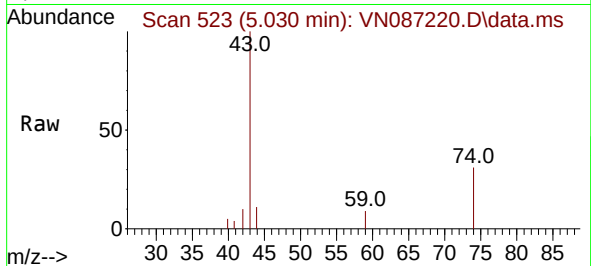




#14
 Allyl chloride
 Concen: Below Cal
 RT: 5.030 min Scan# 51
 Delta R.T. -0.017 min
 Lab File: VN087220.D
 Acq: 27 Jun 2025 14:32

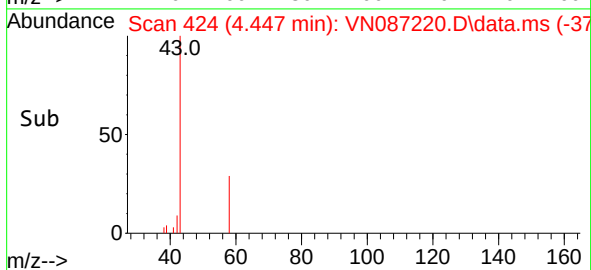
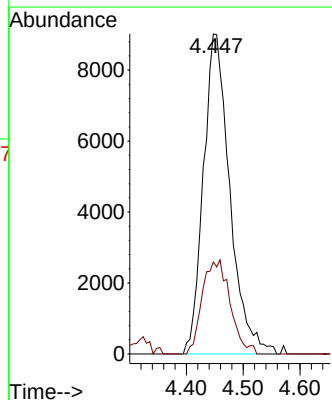
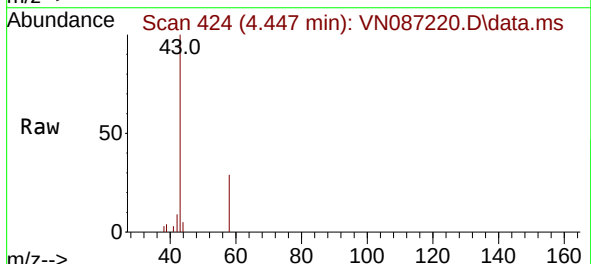
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-4

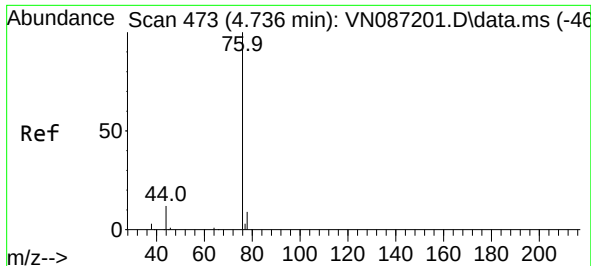
Tgt Ion: 41 Resp: 55
 Ion Ratio Lower Upper
 41 100
 39 0.0 55.0 82.6#
 76 0.0 31.3 46.9#



#16
 Acetone
 Concen: 8.908 ug/l
 RT: 4.447 min Scan# 424
 Delta R.T. 0.005 min
 Lab File: VN087220.D
 Acq: 27 Jun 2025 14:32

Tgt Ion: 43 Resp: 29182
 Ion Ratio Lower Upper
 43 100
 58 28.8 26.5 39.7





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.736 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN087220.D

Acq: 27 Jun 2025 14:32

Instrument :

MSVOA_N

ClientSampleId :

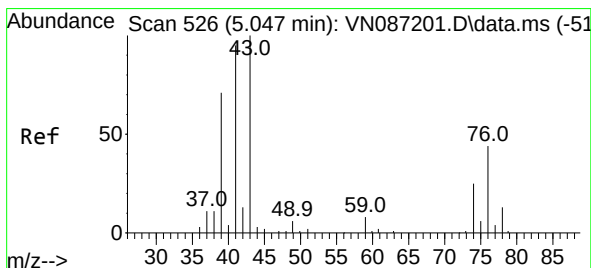
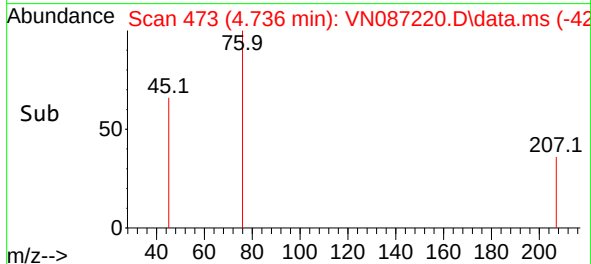
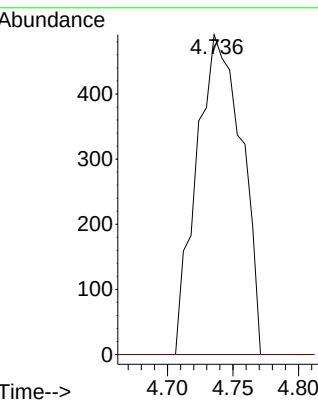
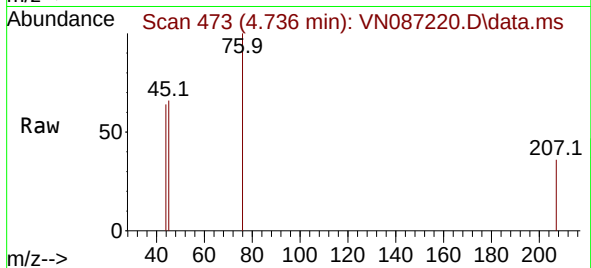
TP-4

Tgt Ion: 76 Resp: 1172

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.6#



#18

Methyl Acetate

Concen: 6.420 ug/l

RT: 5.047 min Scan# 526

Delta R.T. 0.000 min

Lab File: VN087220.D

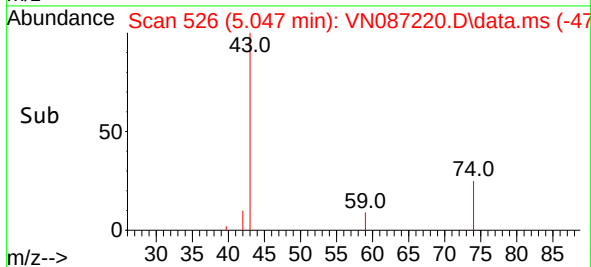
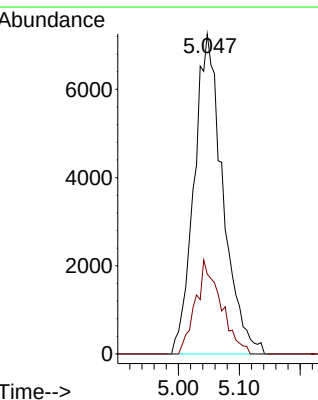
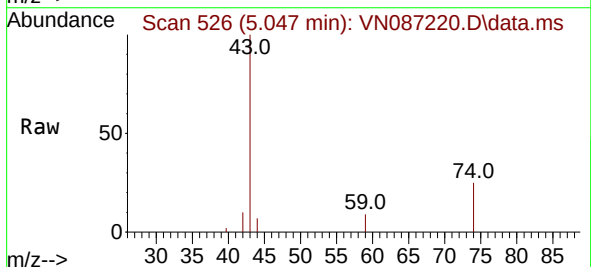
Acq: 27 Jun 2025 14:32

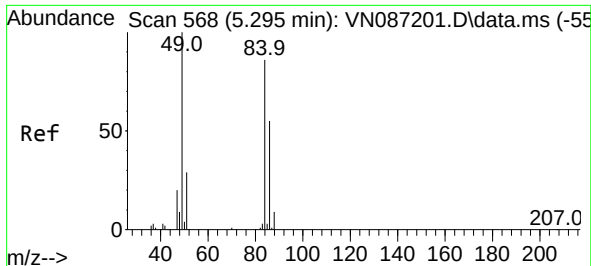
Tgt Ion: 43 Resp: 23799

Ion Ratio Lower Upper

43 100

74 25.9 19.4 29.2

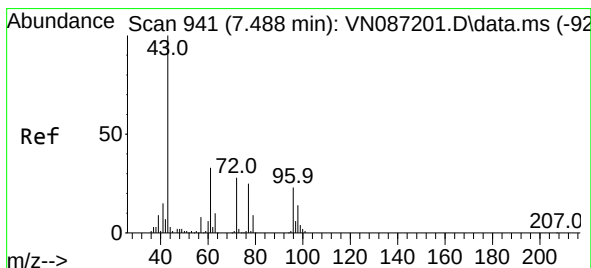
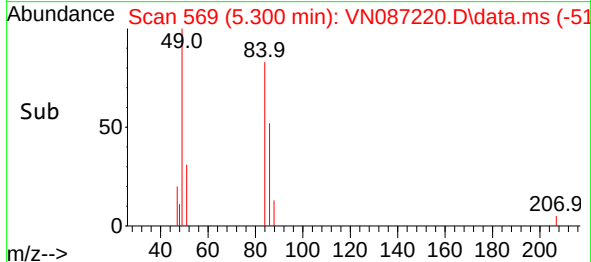
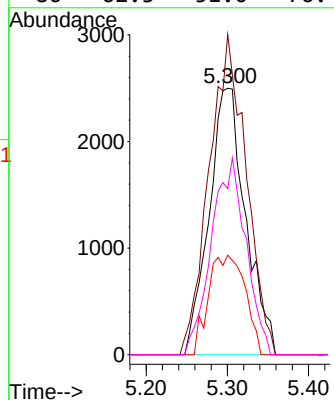
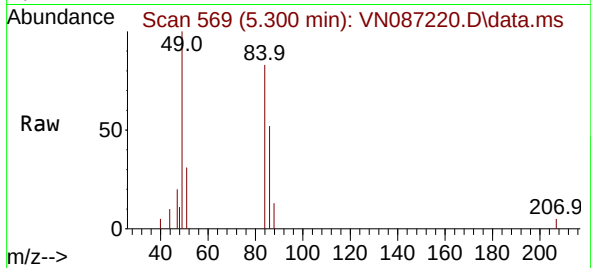




#20
Methylene Chloride
Concen: 1.447 ug/l
RT: 5.300 min Scan# 51
Delta R.T. 0.005 min
Lab File: VN087220.D
Acq: 27 Jun 2025 14:32

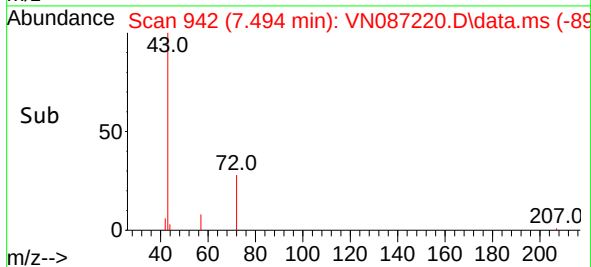
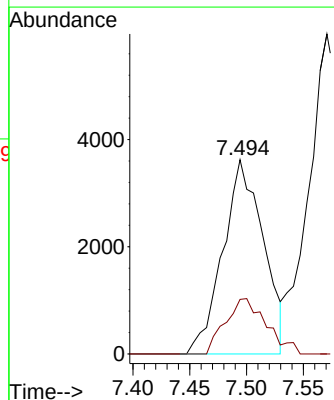
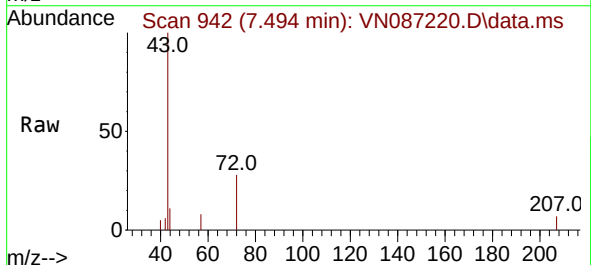
Instrument :
MSVOA_N
ClientSampleId :
TP-4

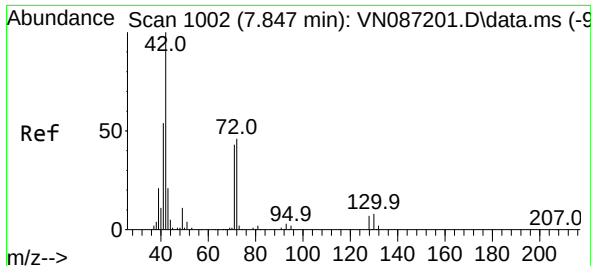
Tgt Ion: 84	Resp: 7846
Ion Ratio	Lower Upper
84 100	
49 120.1	93.0 139.6
51 37.3	27.2 40.8
86 62.3	51.0 76.4



#25
2-Butanone
Concen: 4.372 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.006 min
Lab File: VN087220.D
Acq: 27 Jun 2025 14:32

Tgt Ion: 43	Resp: 8968
Ion Ratio	Lower Upper
43 100	
72 28.1	22.2 33.2





#29

Tetrahydrofuran

Concen: 0.538 ug/l

RT: 7.847 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN087220.D

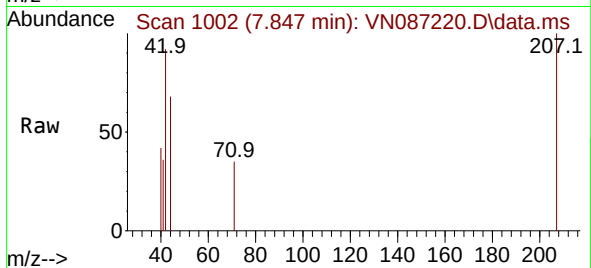
Acq: 27 Jun 2025 14:32

Instrument :

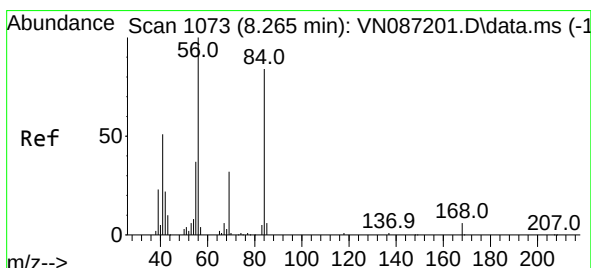
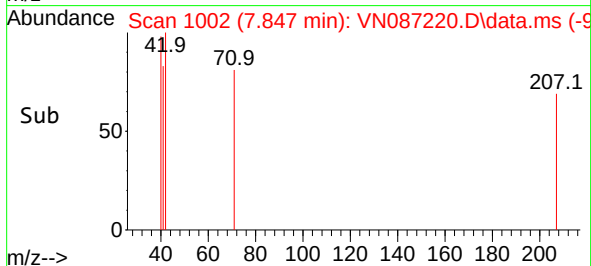
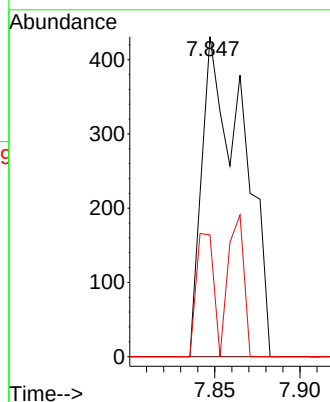
MSVOA_N

ClientSampleId :

TP-4



Tgt Ion:	42	Resp:	723
Ion	Ratio	Lower	Upper
42	100		
72	0.0	36.9	55.3#
71	16.0	35.0	52.4#



#31

Cyclohexane

Concen: 0.934 ug/l

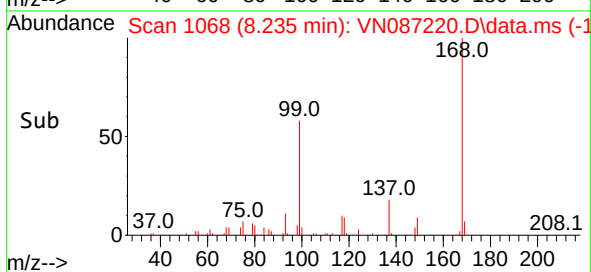
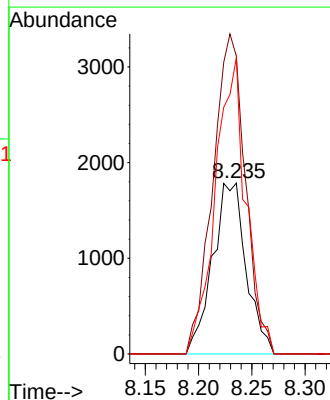
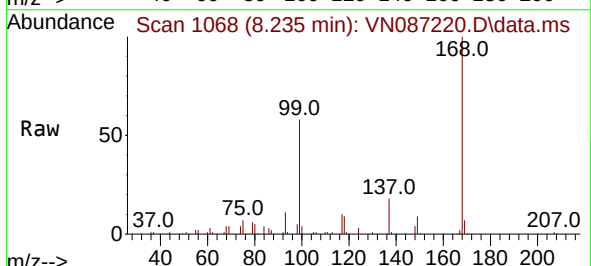
RT: 8.235 min Scan# 1068

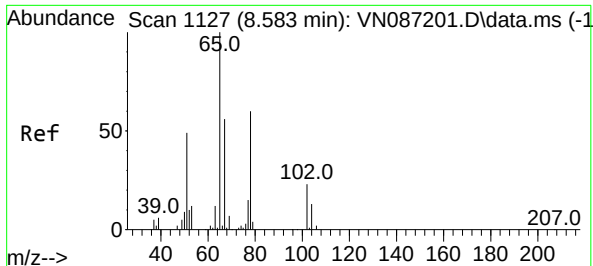
Delta R.T. -0.030 min

Lab File: VN087220.D

Acq: 27 Jun 2025 14:32

Tgt Ion:	56	Resp:	3913
Ion	Ratio	Lower	Upper
56	100		
69	174.2	25.3	37.9#
84	173.5	67.4	101.0#





#33

1,2-Dichloroethane-d4

Concen: 52.203 ug/l

RT: 8.582 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VN087220.D

Acq: 27 Jun 2025 14:32

Instrument :

MSVOA_N

ClientSampleId :

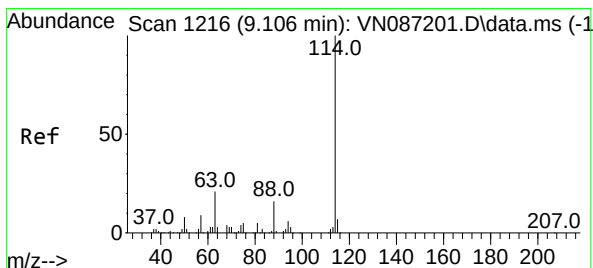
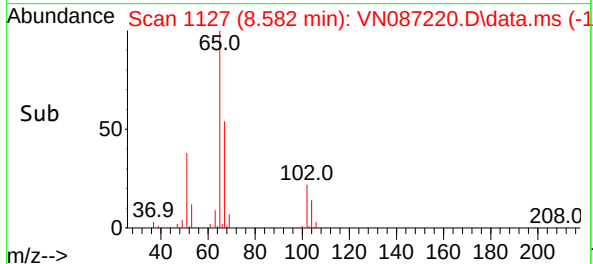
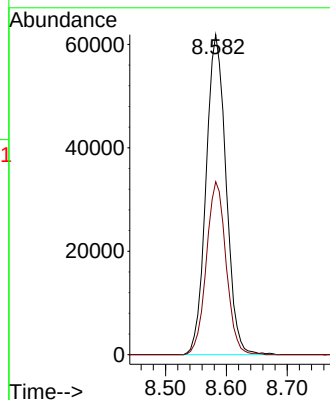
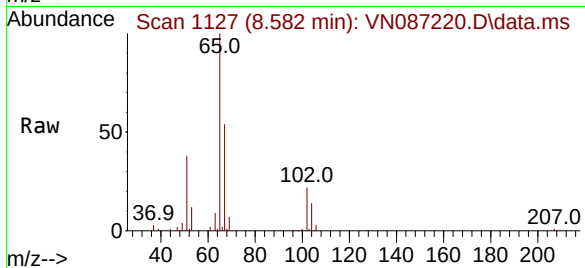
TP-4

Tgt Ion: 65 Resp: 141233

Ion Ratio Lower Upper

65 100

67 53.3 0.0 108.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN087220.D

Acq: 27 Jun 2025 14:32

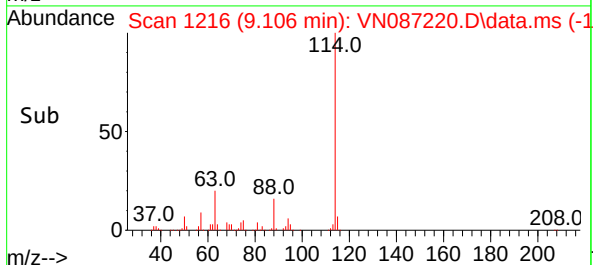
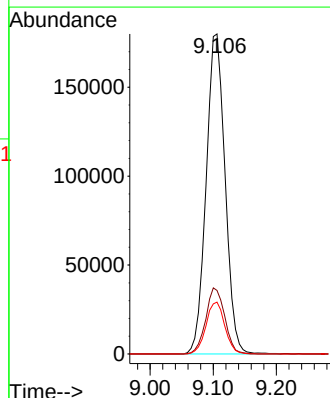
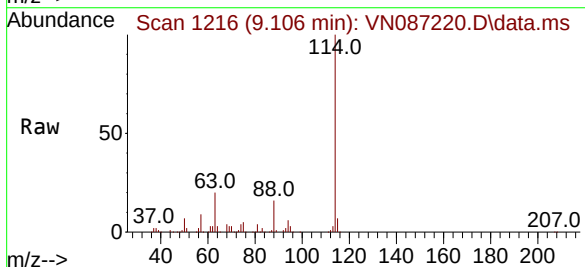
Tgt Ion: 114 Resp: 375149

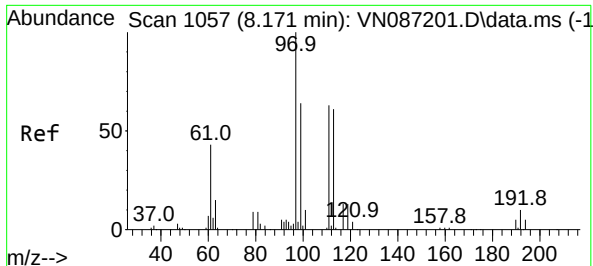
Ion Ratio Lower Upper

114 100

63 19.9 0.0 42.0

88 16.2 0.0 32.0

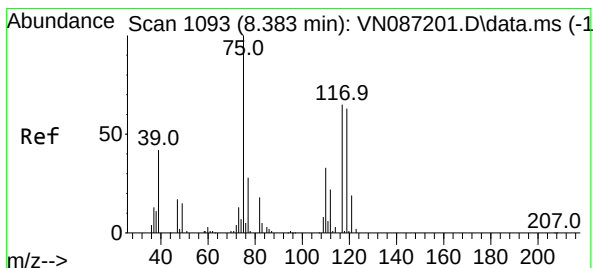
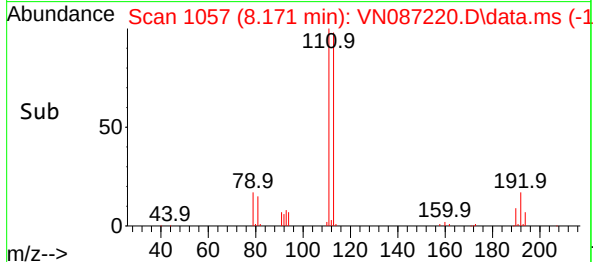
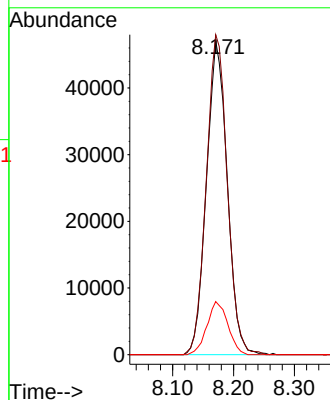
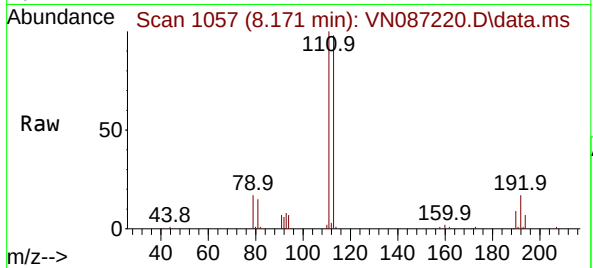




#35
Dibromofluoromethane
Concen: 46.098 ug/l
RT: 8.171 min Scan# 1057
Delta R.T. -0.000 min
Lab File: VN087220.D
Acq: 27 Jun 2025 14:32

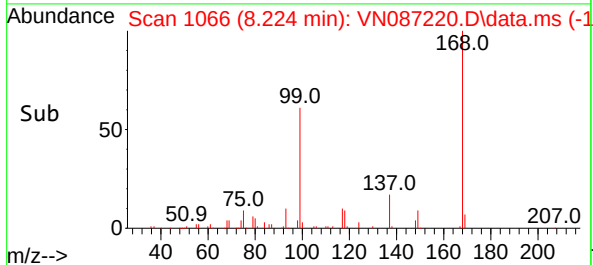
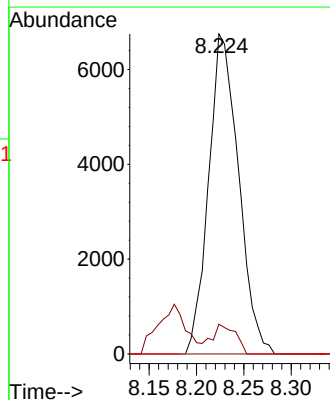
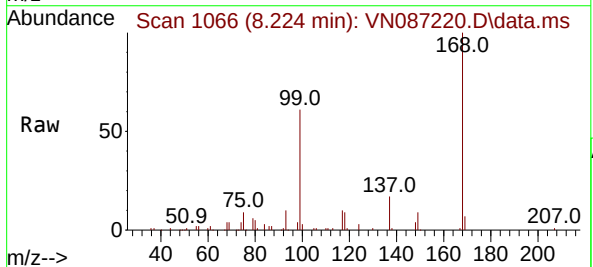
Instrument :
MSVOA_N
ClientSampleId :
TP-4

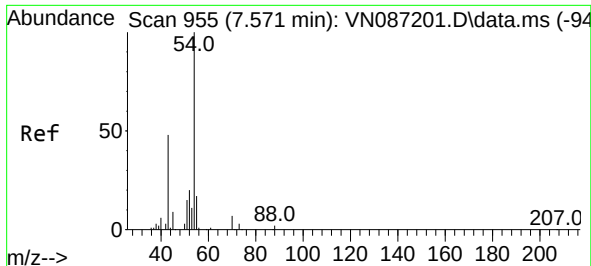
Tgt Ion:113 Resp: 111804
Ion Ratio Lower Upper
113 100
111 102.5 82.6 124.0
192 17.0 13.5 20.3



#36
1,1-Dichloropropene
Concen: 4.182 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.159 min
Lab File: VN087220.D
Acq: 27 Jun 2025 14:32

Tgt Ion: 75 Resp: 14858
Ion Ratio Lower Upper
75 100
110 7.2 16.9 50.6#
77 0.0 24.7 37.1#

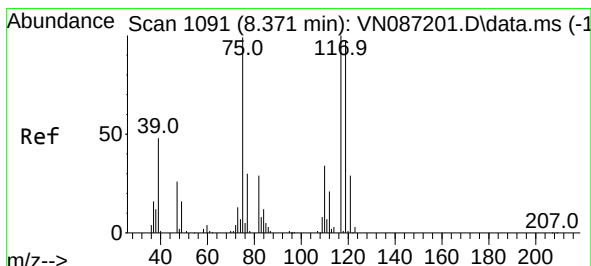
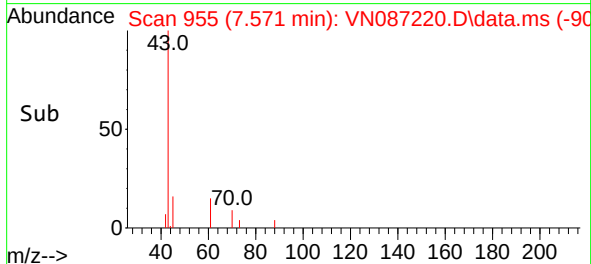
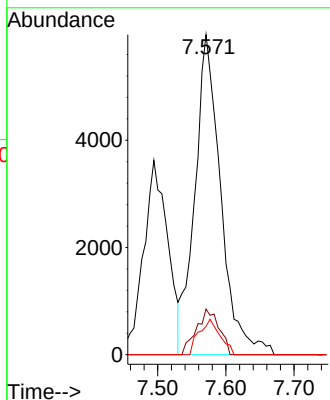
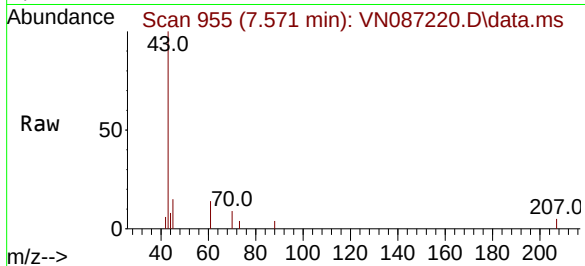




#37
Ethyl Acetate
Concen: 1.207 ug/l
RT: 7.571 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN087220.D
Acq: 27 Jun 2025 14:32

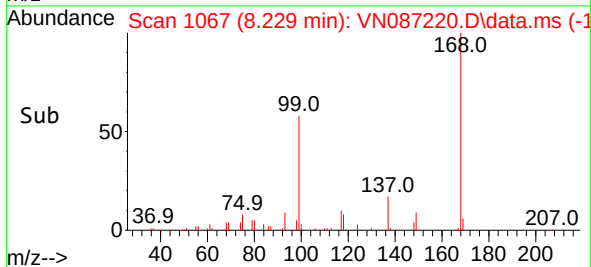
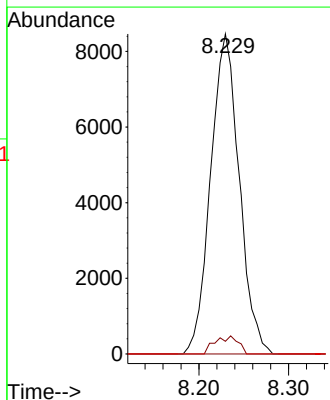
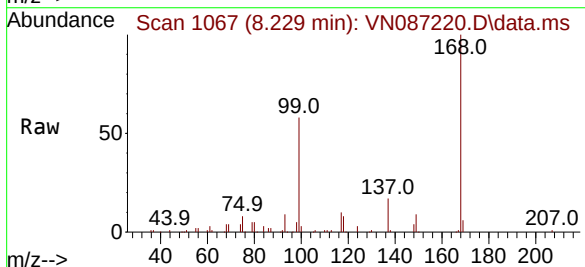
Instrument :
MSVOA_N
ClientSampleId :
TP-4

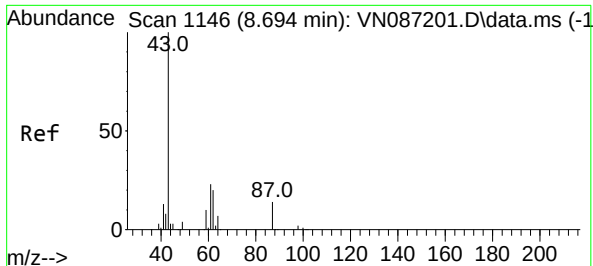
Tgt Ion: 43 Resp: 15775
Ion Ratio Lower Upper
43 100
61 12.5 10.8 16.2
70 9.0 8.9 13.3



#38
Carbon Tetrachloride
Concen: 5.407 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN087220.D
Acq: 27 Jun 2025 14:32

Tgt Ion: 117 Resp: 18706
Ion Ratio Lower Upper
117 100
119 4.0 77.4 116.0#
121 0.0 23.2 34.8#

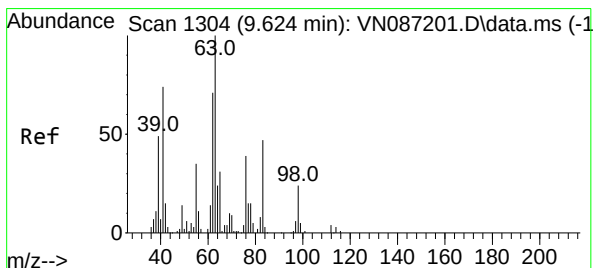
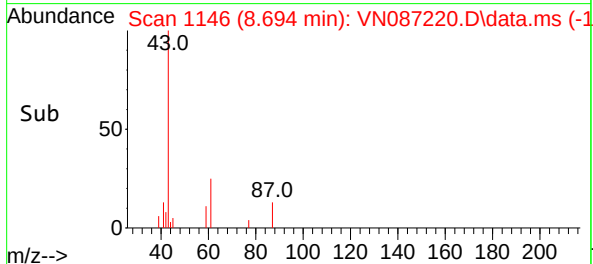
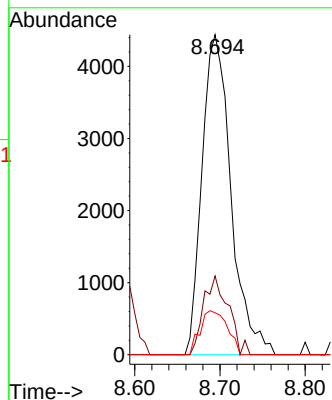
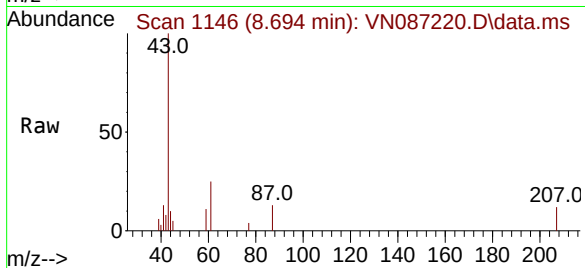




#43
Isopropyl Acetate
Concen: 1.608 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. -0.000 min
Lab File: VN087220.D
Acq: 27 Jun 2025 14:32

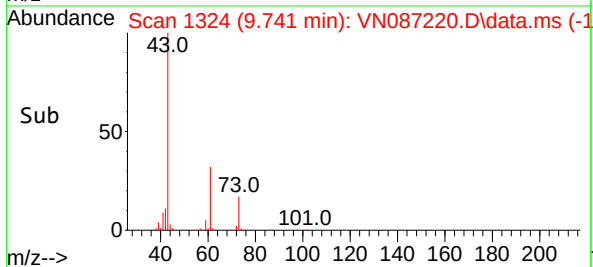
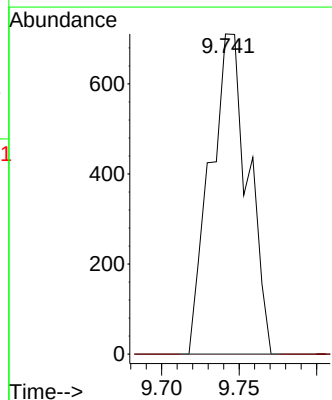
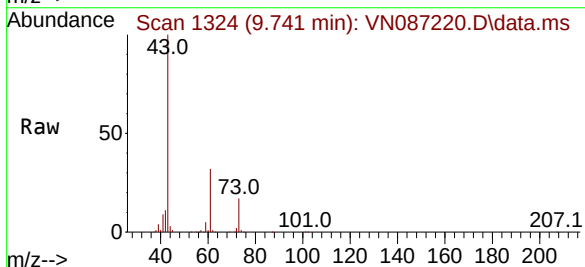
Instrument :
MSVOA_N
ClientSampleId :
TP-4

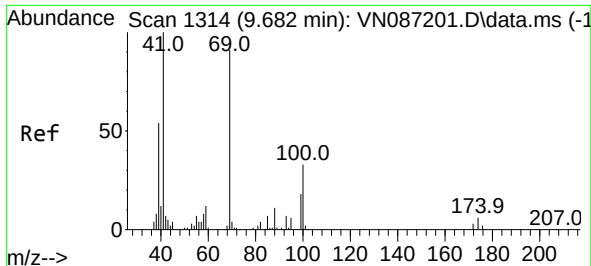
Tgt Ion: 43 Resp: 10500
Ion Ratio Lower Upper
43 100
61 21.0 21.0 31.6#
87 12.9 11.0 16.6



#45
1,2-Dichloropropane
Concen: 0.427 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.118 min
Lab File: VN087220.D
Acq: 27 Jun 2025 14:32

Tgt Ion: 63 Resp: 1207
Ion Ratio Lower Upper
63 100
65 0.0 24.7 37.1#

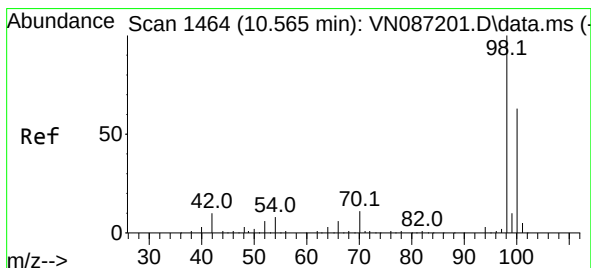
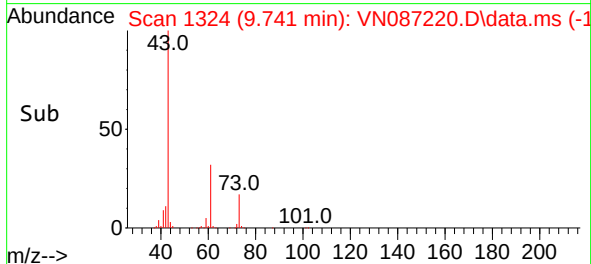
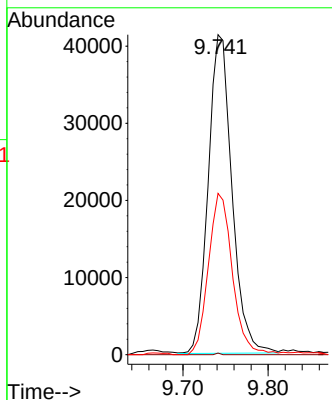
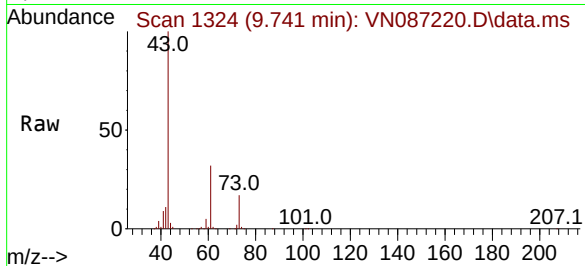




#48
Methyl methacrylate
Concen: 25.298 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.059 min
Lab File: VN087220.D
Acq: 27 Jun 2025 14:32

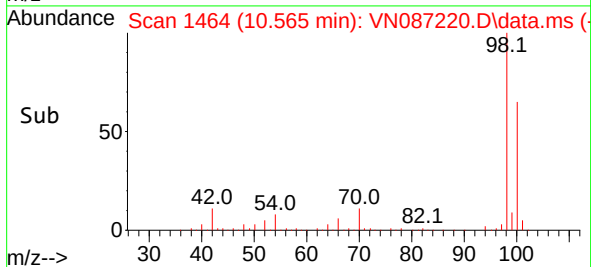
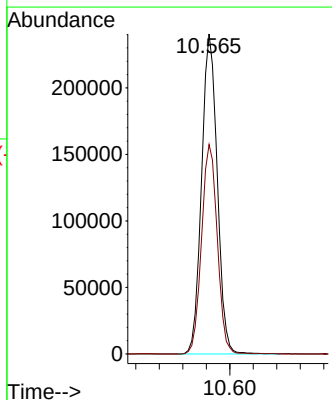
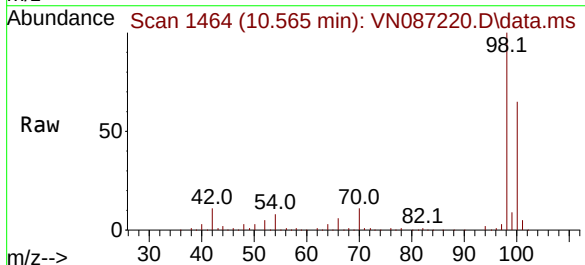
Instrument :
MSVOA_N
ClientSampleId :
TP-4

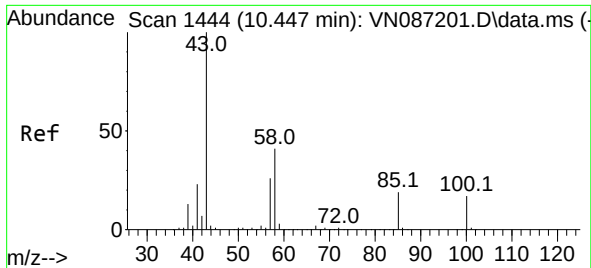
Tgt Ion: 41 Resp: 79882
Ion Ratio Lower Upper
41 100
69 0.1 69.9 104.9#
39 51.4 43.8 65.6



#50
Toluene-d8
Concen: 44.198 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN087220.D
Acq: 27 Jun 2025 14:32

Tgt Ion: 98 Resp: 443353
Ion Ratio Lower Upper
98 100
100 65.7 52.7 79.1

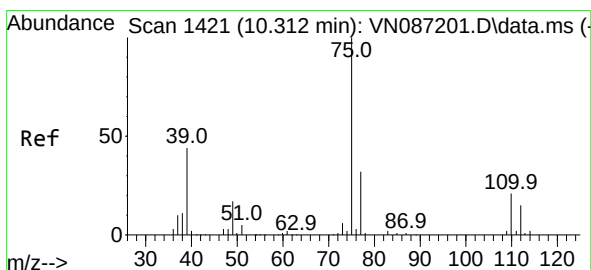
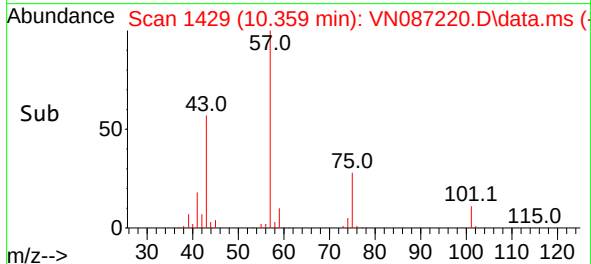
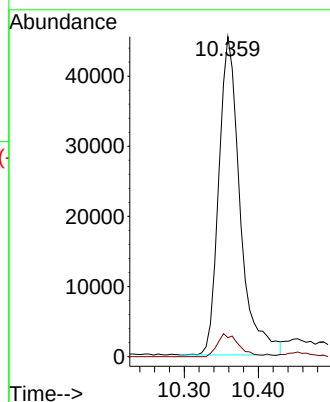
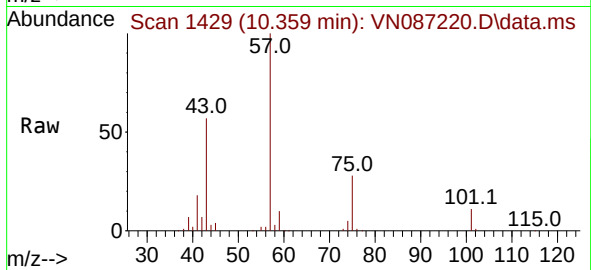




#51
4-Methyl-2-Pentanone
Concen: 16.763 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. -0.088 min
Lab File: VN087220.D
Acq: 27 Jun 2025 14:32

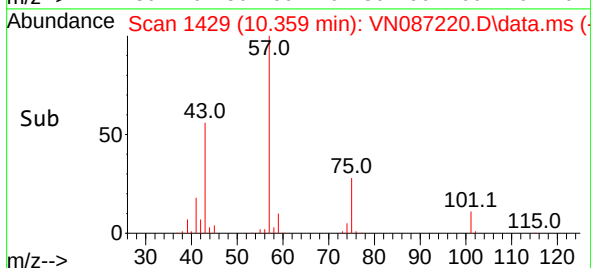
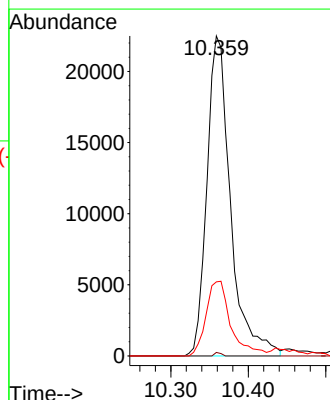
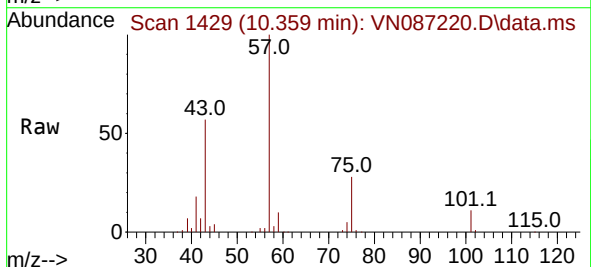
Instrument :
MSVOA_N
ClientSampleId :
TP-4

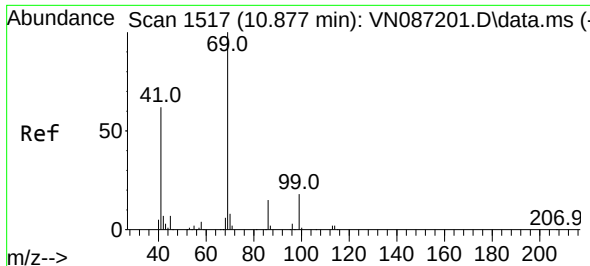
Tgt Ion: 43 Resp: 90511
Ion Ratio Lower Upper
43 100
58 7.2 32.6 48.8#



#54
cis-1,3-Dichloropropene
Concen: 10.420 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN087220.D
Acq: 27 Jun 2025 14:32

Tgt Ion: 75 Resp: 47607
Ion Ratio Lower Upper
75 100
77 1.1 25.4 38.2#
39 23.1 34.9 52.3#

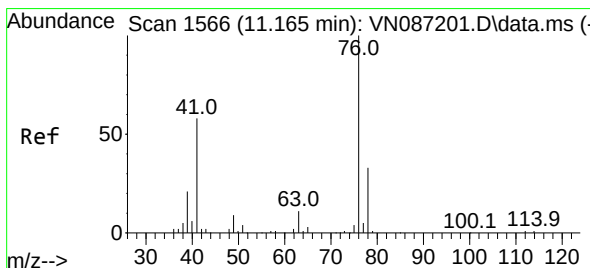
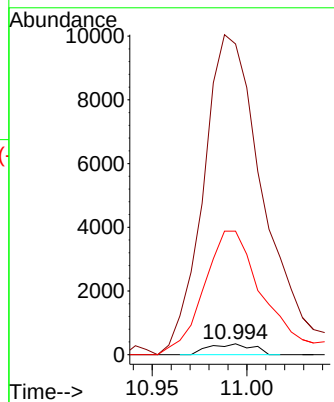
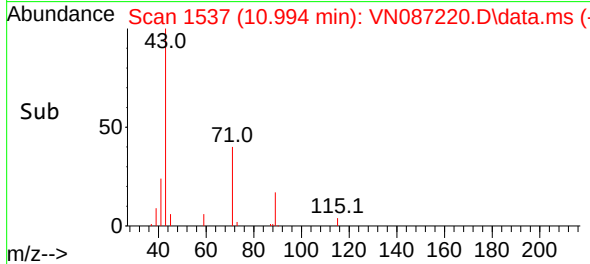
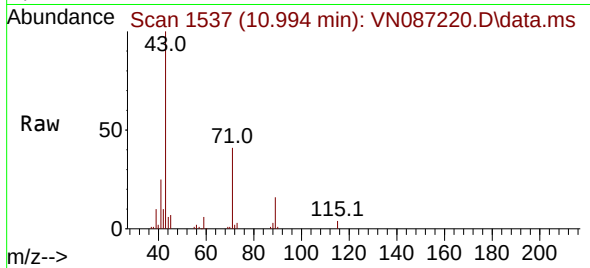




#56
Ethyl methacrylate
Concen: Below Cal
RT: 10.994 min Scan# 1537
Delta R.T. 0.117 min
Lab File: VN087220.D
Acq: 27 Jun 2025 14:32

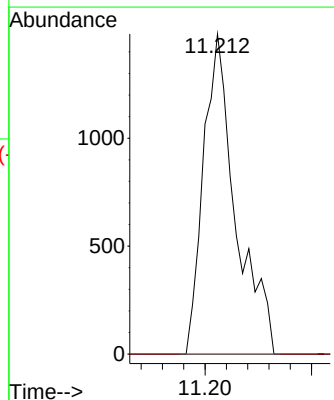
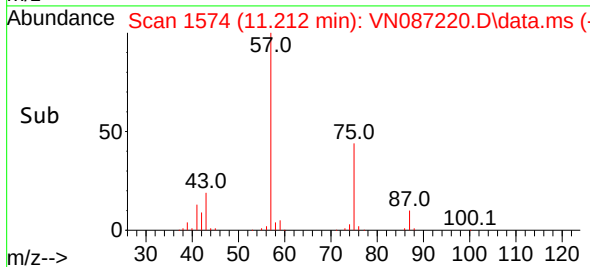
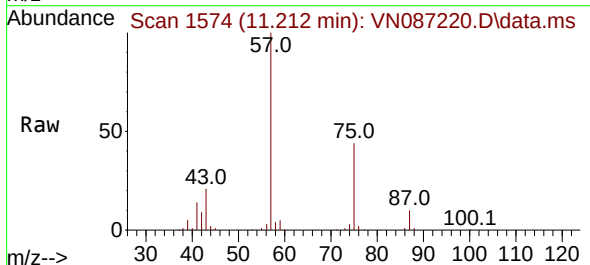
Instrument :
MSVOA_N
ClientSampleId :
TP-4

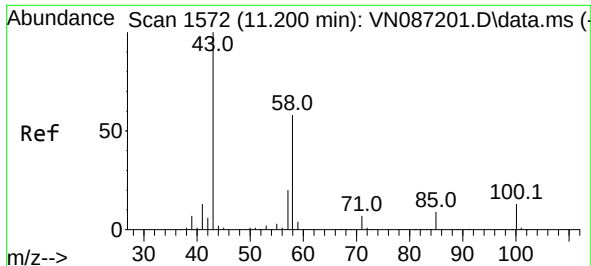
Tgt Ion: 69 Resp: 548
Ion Ratio Lower Upper
69 100
41 4113.1 48.4 72.6#
39 1616.2 24.1 36.1#



#57
1,3-Dichloropropane
Concen: 0.665 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.047 min
Lab File: VN087220.D
Acq: 27 Jun 2025 14:32

Tgt Ion: 76 Resp: 3120
Ion Ratio Lower Upper
76 100
78 0.0 25.6 38.4#

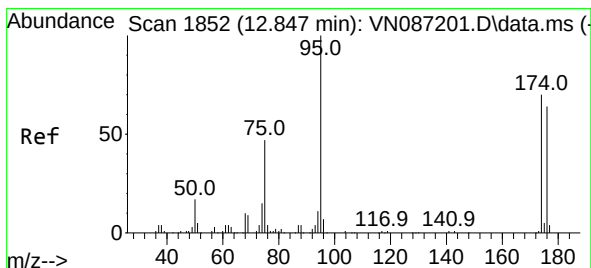
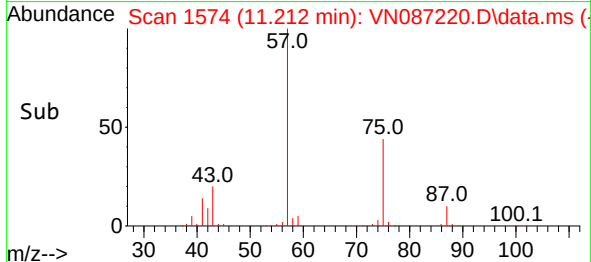
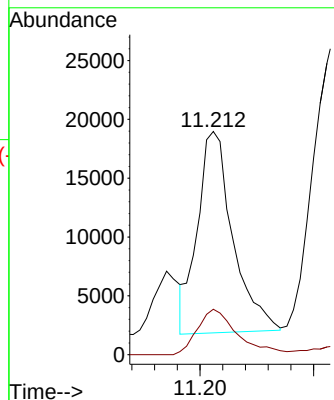
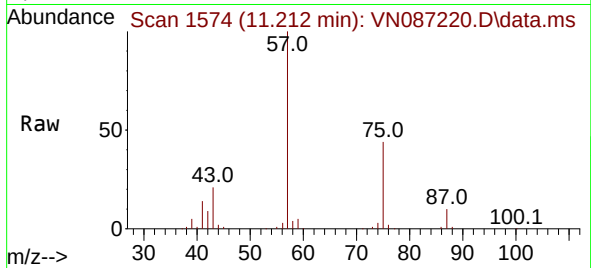




#59
2-Hexanone
Concen: 12.742 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.012 min
Lab File: VN087220.D
Acq: 27 Jun 2025 14:32

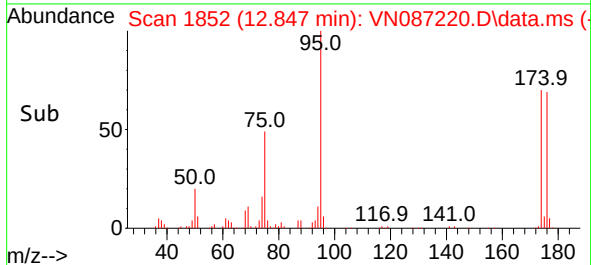
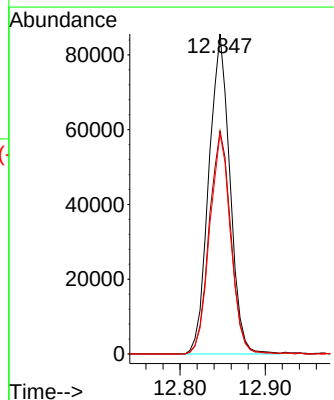
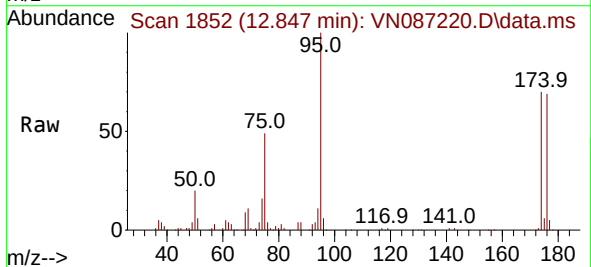
Instrument :
MSVOA_N
ClientSampleId :
TP-4

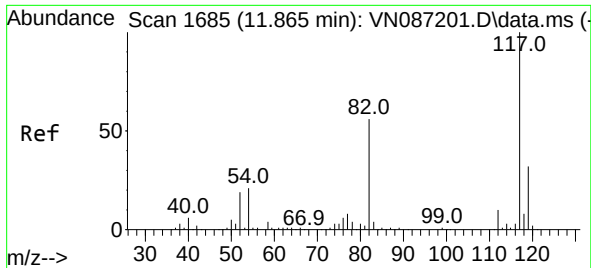
Tgt Ion: 43 Resp: 37024
Ion Ratio Lower Upper
43 100
58 25.6 31.1 93.3#



#62
4-Bromofluorobenzene
Concen: 42.215 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087220.D
Acq: 27 Jun 2025 14:32

Tgt Ion: 95 Resp: 146938
Ion Ratio Lower Upper
95 100
174 71.4 0.0 142.2
176 68.5 0.0 134.8

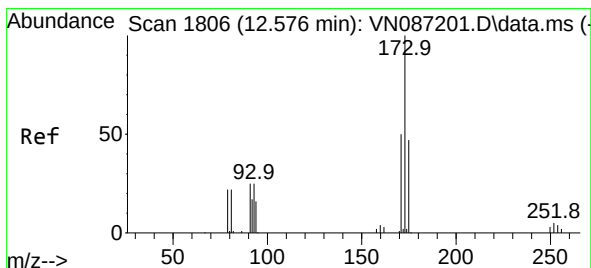
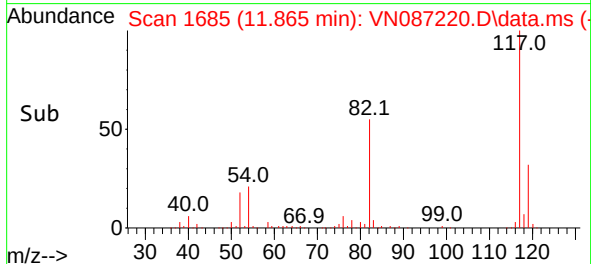
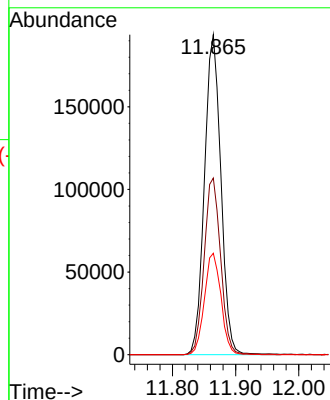
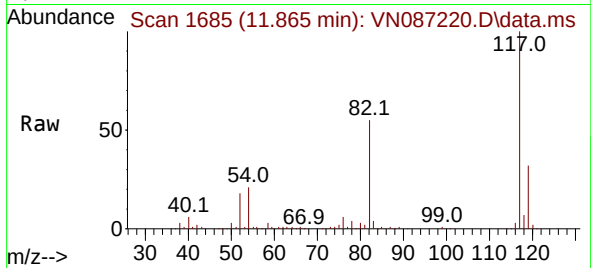




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN087220.D
Acq: 27 Jun 2025 14:32

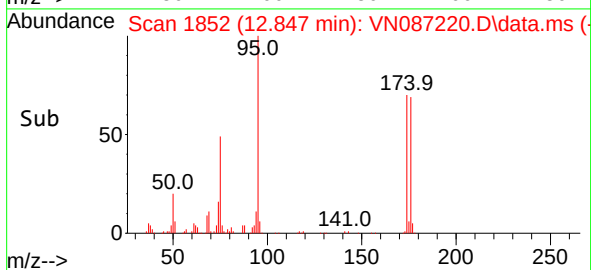
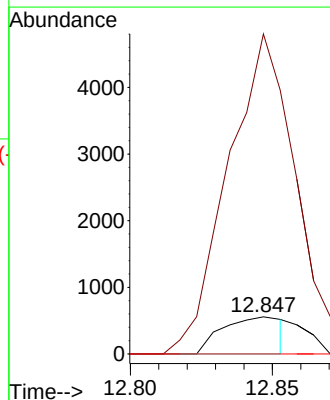
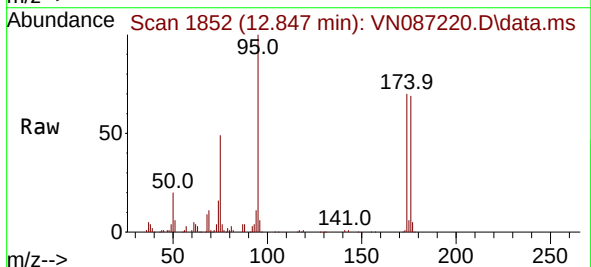
Instrument :
MSVOA_N
ClientSampleId :
TP-4

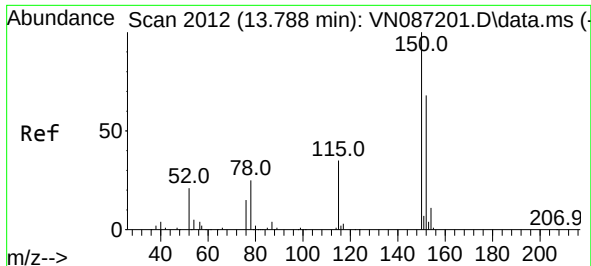
Tgt Ion:117 Resp: 349381
Ion Ratio Lower Upper
117 100
82 55.2 45.0 67.4
119 31.7 25.9 38.9



#71
Bromoform
Concen: 0.451 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.270 min
Lab File: VN087220.D
Acq: 27 Jun 2025 14:32

Tgt Ion:173 Resp: 829
Ion Ratio Lower Upper
173 100
175 767.6 23.8 71.2#
254 0.0 0.0 0.0

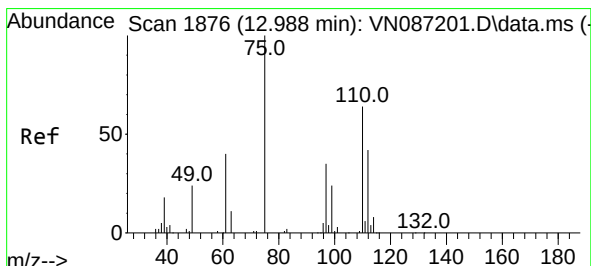
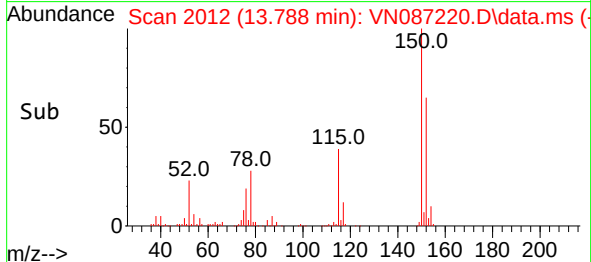
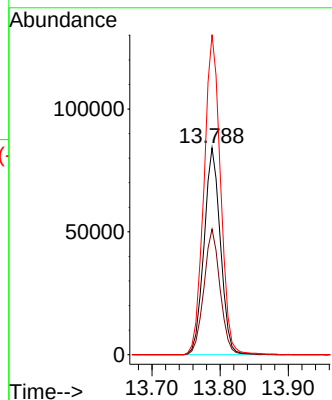
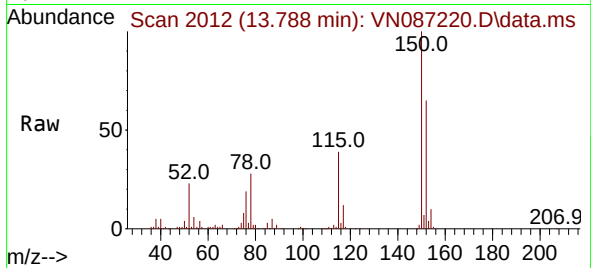




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 2012
 Delta R.T. -0.000 min
 Lab File: VN087220.D
 Acq: 27 Jun 2025 14:32

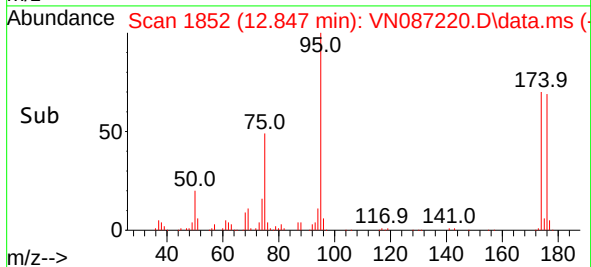
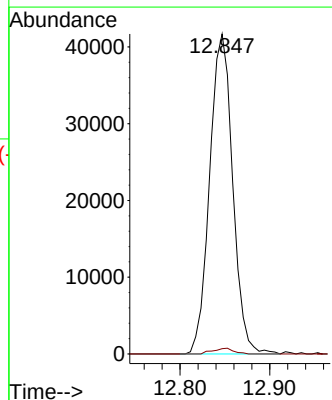
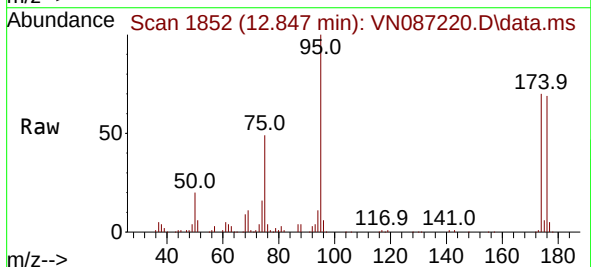
Instrument :
 MSVOA_N
 ClientSampleId :
 TP-4

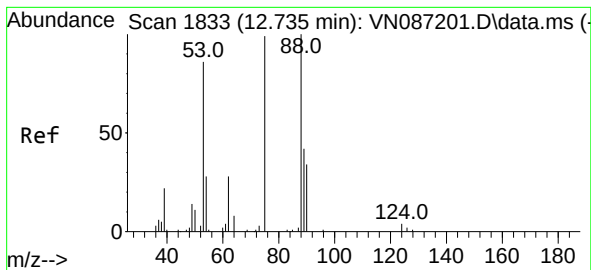
Tgt Ion:152 Resp: 140321
 Ion Ratio Lower Upper
 152 100
 115 60.0 30.6 91.8
 150 156.5 0.0 347.8



#76
 1,2,3-Trichloropropane
 Concen: 23.720 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.141 min
 Lab File: VN087220.D
 Acq: 27 Jun 2025 14:32

Tgt Ion: 75 Resp: 74261
 Ion Ratio Lower Upper
 75 100
 77 1.6 85.5 256.6#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 53.237 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN087220.D
 Acq: 27 Jun 2025 14:32

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-4

Tgt Ion: 75 Resp: 74261
 Ion Ratio Lower Upper
 75 100
 53 0.0 71.4 107.0#
 89 0.0 37.9 56.9#

