

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
 Data File : VN086854.D
 Acq On : 03 Jun 2025 19:48
 Operator : JC\MD
 Sample : PB168225ZHE#15
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168225ZHE#15

Quant Time: Jun 04 02:05:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:46:13 2025
 Response via : Initial Calibration

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

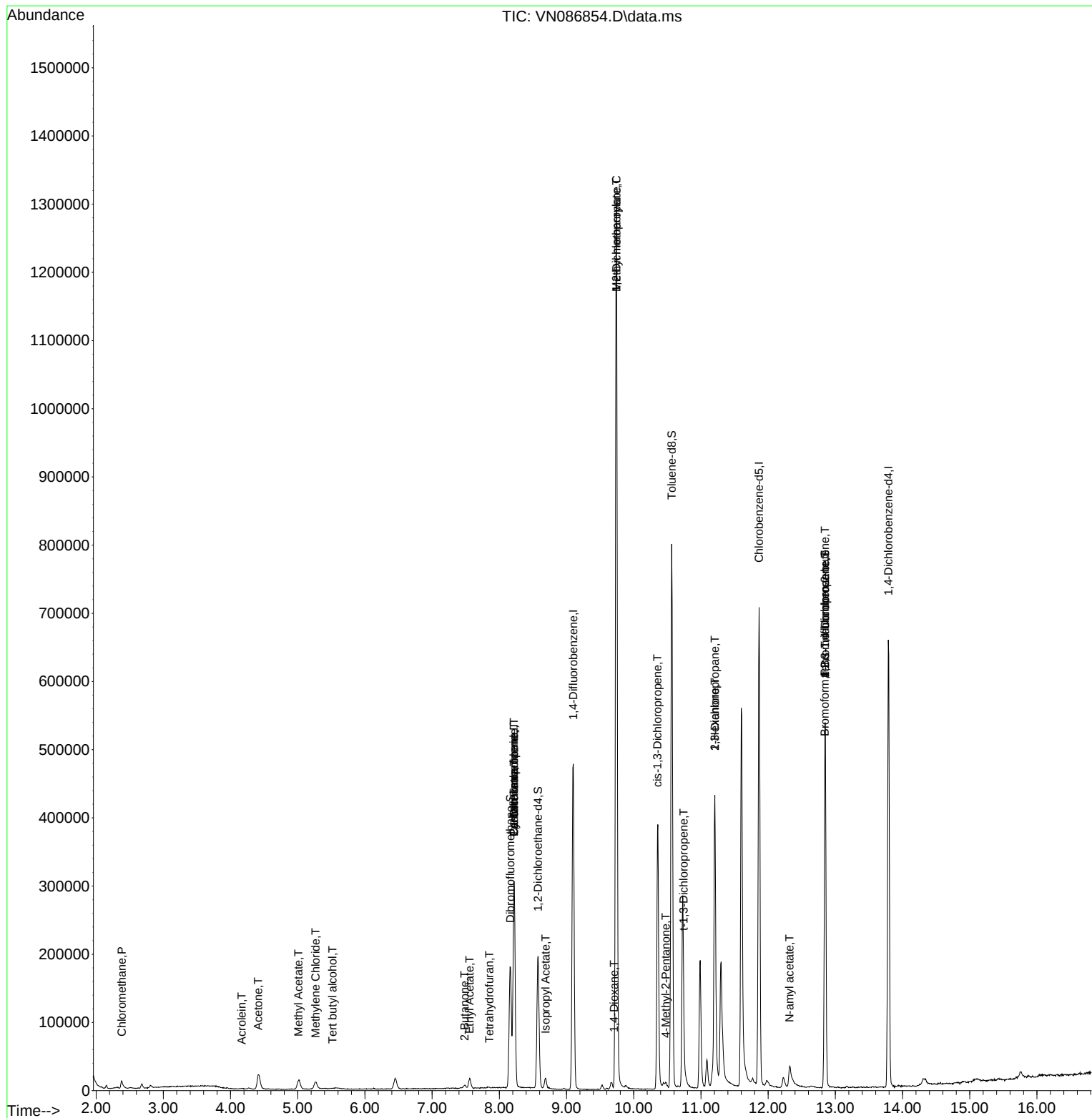
Internal Standards						
1) Pentafluorobenzene	8.218	168	229498	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	447218	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	422170	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	190775	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	159835	50.401	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 100.800%	
35) Dibromofluoromethane	8.165	113	138149	51.870	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 103.740%	
50) Toluene-d8	10.565	98	568447	51.503	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 103.000%	
62) 4-Bromofluorobenzene	12.847	95	210740	54.075	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 108.160%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.383	50	19317	5.153	ug/l	100
11) Tert butyl alcohol	5.518	59	681	1.179	ug/l #	73
13) Acrolein	4.165	56	506	0.820	ug/l	95
16) Acetone	4.412	43	44018	37.107	ug/l	94
18) Methyl Acetate	5.012	43	29988	9.032	ug/l	95
20) Methylene Chloride	5.265	84	8594	2.745	ug/l	96
25) 2-Butanone	7.483	43	7787	4.248	ug/l	96
29) Tetrahydrofuran	7.853	42	1341	1.121	ug/l #	33
31) Cyclohexane	8.218	56	4521	0.950	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	18942	4.822	ug/l #	43
37) Ethyl Acetate	7.559	43	21412	5.396	ug/l	97
38) Carbon Tetrachloride	8.218	117	23199	5.993	ug/l #	17
43) Isopropyl Acetate	8.688	43	17043	2.142	ug/l	95
45) 1,2-Dichloropropane	9.741	63	1624	0.533	ug/l #	42
48) Methyl methacrylate	9.741	41	110524	35.852	ug/l #	35
49) 1,4-Dioxane	9.706	88	67	1.026	ug/l #	24
51) 4-Methyl-2-Pentanone	10.477	43	6215	1.549	ug/l #	33
53) t-1,3-Dichloropropene	10.741	75	1012	0.226	ug/l #	43
54) cis-1,3-Dichloropropene	10.353	75	83512	17.071	ug/l #	55
57) 1,3-Dichloropropane	11.206	76	5008	0.978	ug/l #	42
59) 2-Hexanone	11.206	43	84645	28.892	ug/l #	44
71) Bromoform	12.841	173	720	0.339	ug/l #	1
74) N-amyl acetate	12.318	43	19620	3.187	ug/l #	52
76) 1,2,3-Trichloropropane	12.847	75	101905	23.619	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	101905	59.606	ug/l #	15

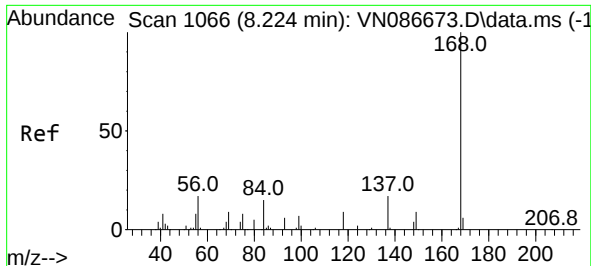
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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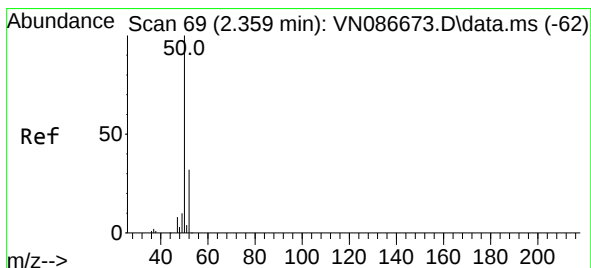
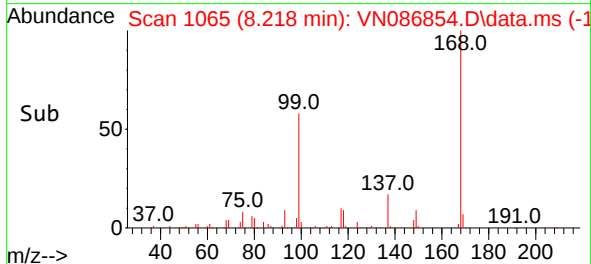
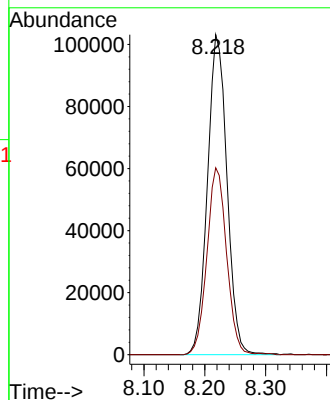
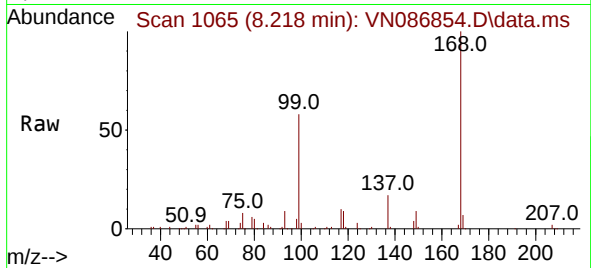




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN086854.D
Acq: 03 Jun 2025 19:48

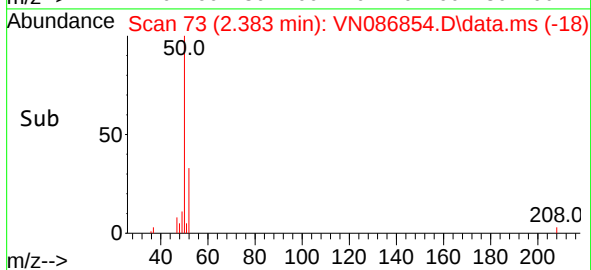
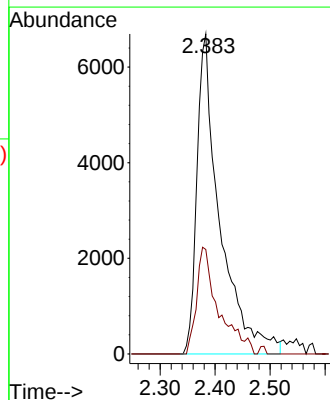
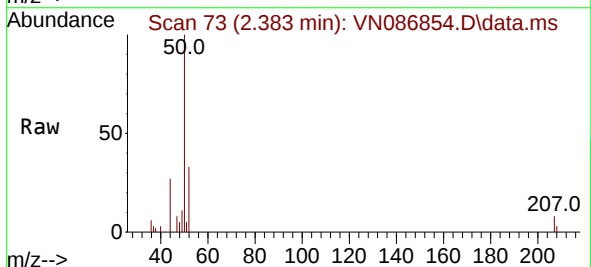
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#15

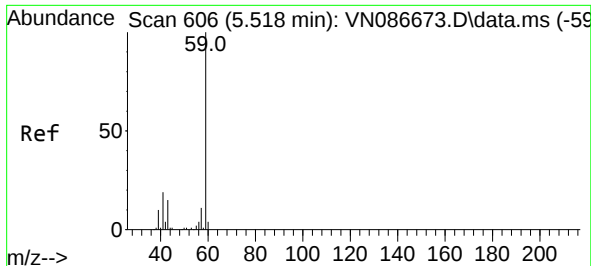
Tgt Ion:168 Resp: 229498
Ion Ratio Lower Upper
168 100
99 58.4 47.0 70.4



#3
Chloromethane
Concen: 5.153 ug/l
RT: 2.383 min Scan# 73
Delta R.T. 0.024 min
Lab File: VN086854.D
Acq: 03 Jun 2025 19:48

Tgt Ion: 50 Resp: 19317
Ion Ratio Lower Upper
50 100
52 32.6 25.9 38.9

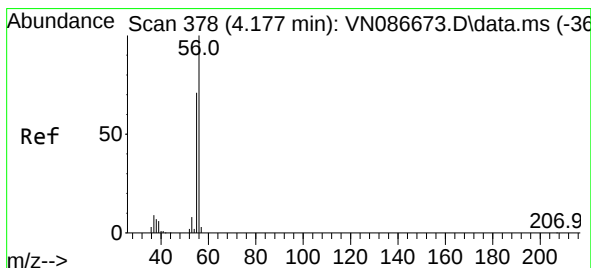
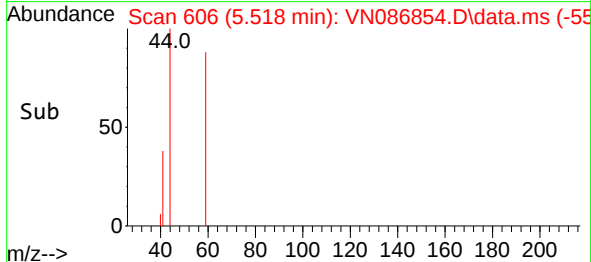
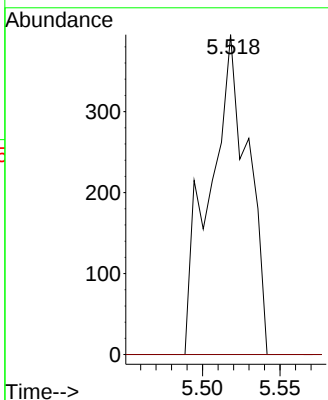
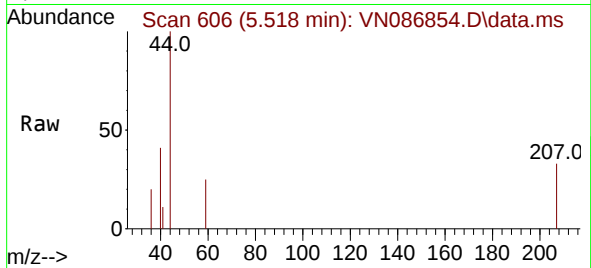




#11
Tert butyl alcohol
Concen: 1.179 ug/l
RT: 5.518 min Scan# 606
Delta R.T. 0.000 min
Lab File: VN086854.D
Acq: 03 Jun 2025 19:48

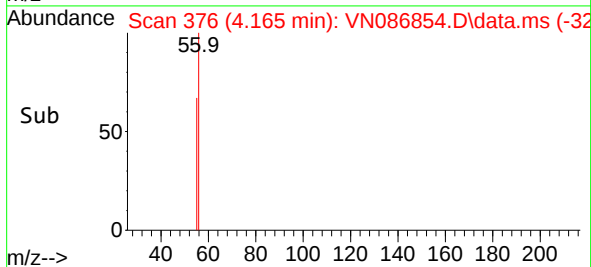
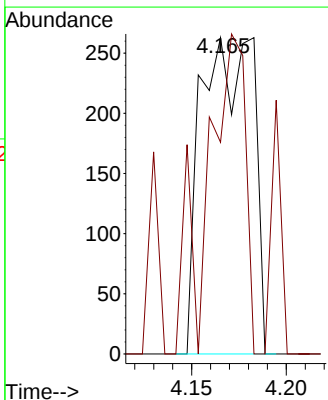
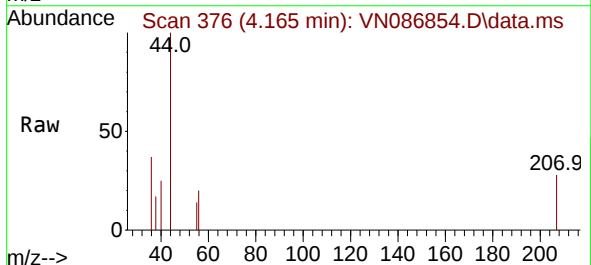
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#15

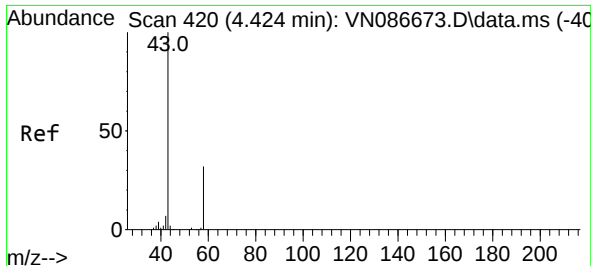
Tgt Ion: 59 Resp: 681
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#13
Acrolein
Concen: 0.820 ug/l
RT: 4.165 min Scan# 376
Delta R.T. -0.012 min
Lab File: VN086854.D
Acq: 03 Jun 2025 19:48

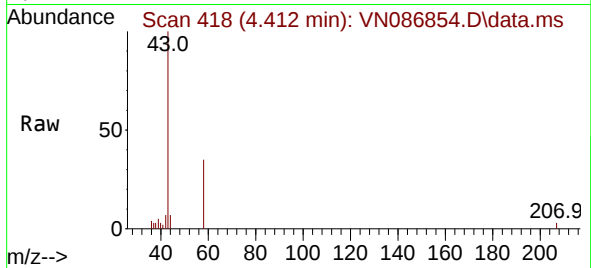
Tgt Ion: 56 Resp: 506
Ion Ratio Lower Upper
56 100
55 73.9 55.7 83.5



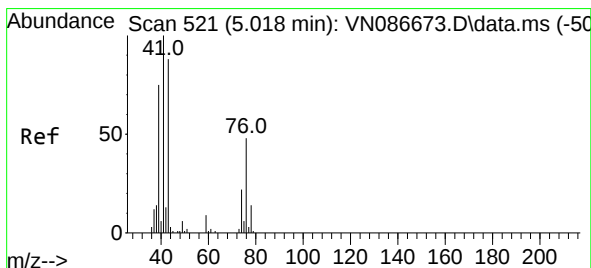
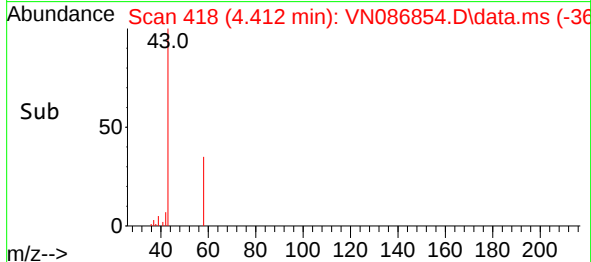
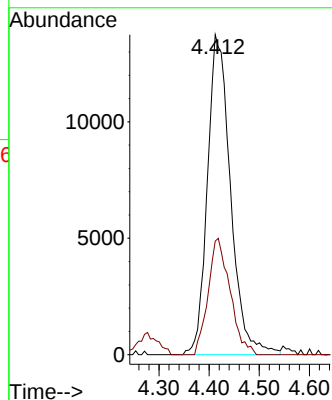


#16
Acetone
Concen: 37.107 ug/l
RT: 4.412 min Scan# 418
Delta R.T. -0.012 min
Lab File: VN086854.D
Acq: 03 Jun 2025 19:48

Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#15

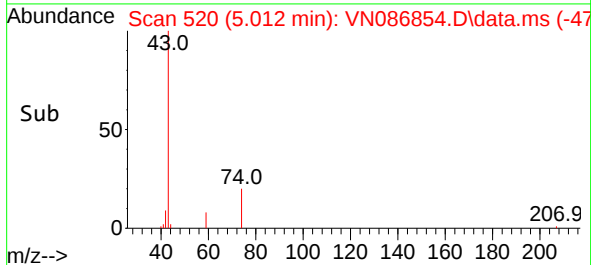
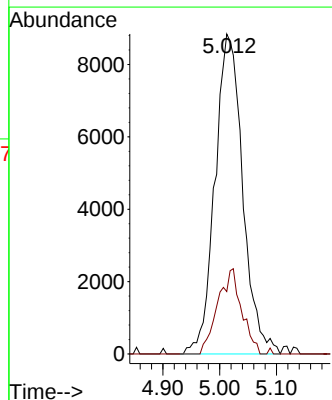
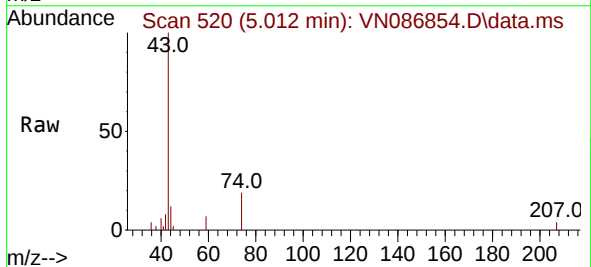


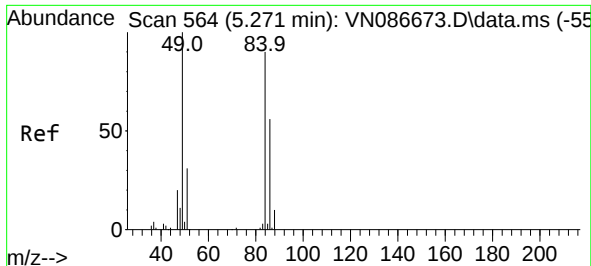
Tgt Ion: 43 Resp: 44018
Ion Ratio Lower Upper
43 100
58 35.5 25.8 38.6



#18
Methyl Acetate
Concen: 9.032 ug/l
RT: 5.012 min Scan# 520
Delta R.T. -0.006 min
Lab File: VN086854.D
Acq: 03 Jun 2025 19:48

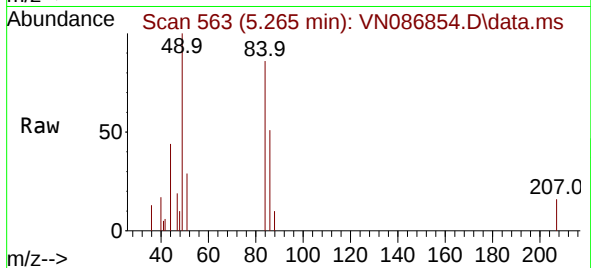
Tgt Ion: 43 Resp: 29988
Ion Ratio Lower Upper
43 100
74 22.9 20.5 30.7



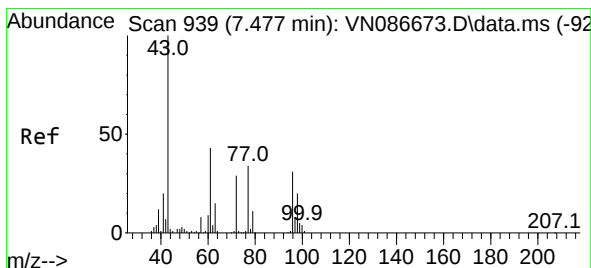
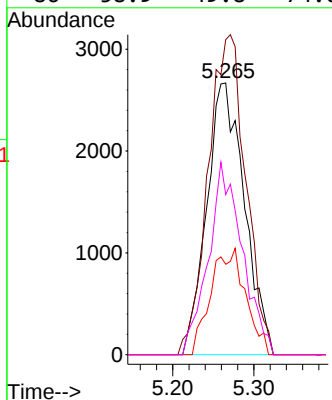
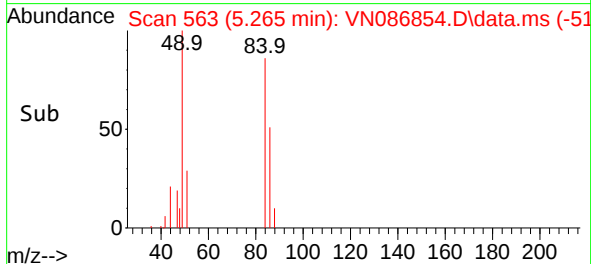


#20
Methylene Chloride
Concen: 2.745 ug/l
RT: 5.265 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN086854.D
Acq: 03 Jun 2025 19:48

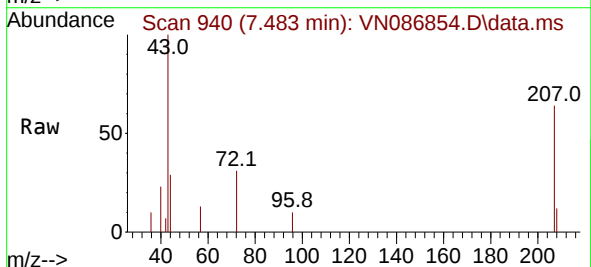
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#15



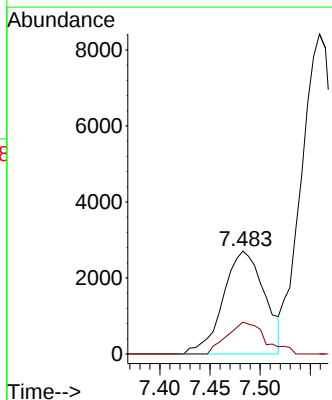
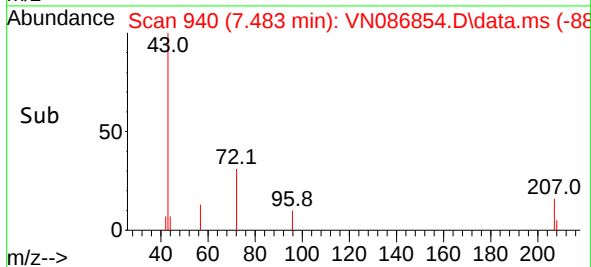
Tgt Ion: 84	Resp: 8594
Ion Ratio	Lower Upper
84 100	
49 115.9	88.8 133.2
51 33.3	27.8 41.6
86 58.9	49.8 74.6

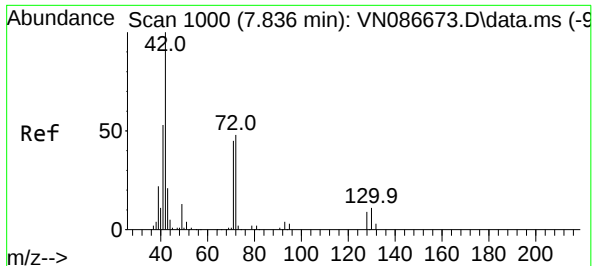


#25
2-Butanone
Concen: 4.248 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN086854.D
Acq: 03 Jun 2025 19:48



Tgt Ion: 43	Resp: 7787
Ion Ratio	Lower Upper
43 100	
72 30.9	23.1 34.7





#29

Tetrahydrofuran

Concen: 1.121 ug/l

RT: 7.853 min Scan# 1065

Delta R.T. 0.018 min

Lab File: VN086854.D

Acq: 03 Jun 2025 19:48

Instrument :

MSVOA_N

ClientSampleId :

PB168225ZHE#15

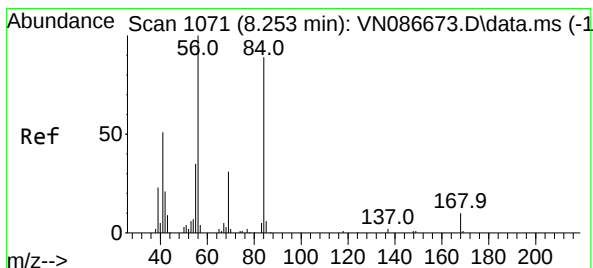
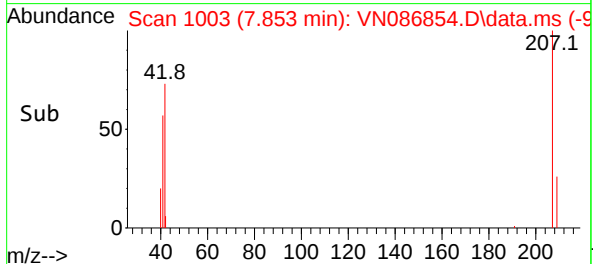
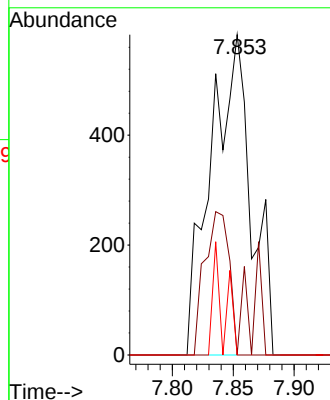
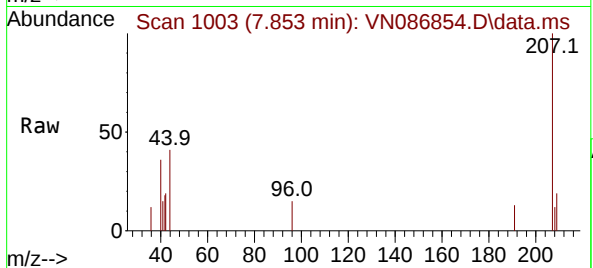
Tgt Ion: 42 Resp: 1341

Ion Ratio Lower Upper

42 100

72 4.3 38.7 58.1#

71 0.0 36.2 54.4#



#31

Cyclohexane

Concen: 0.950 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.035 min

Lab File: VN086854.D

Acq: 03 Jun 2025 19:48

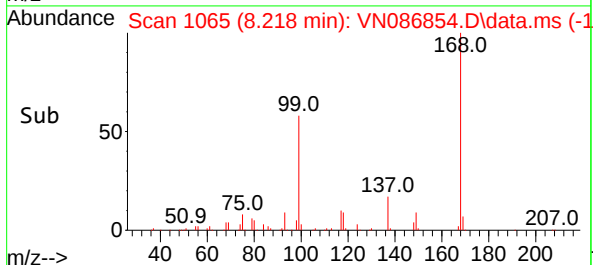
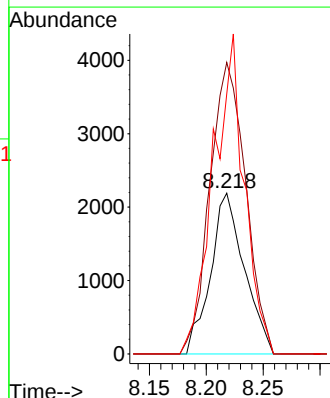
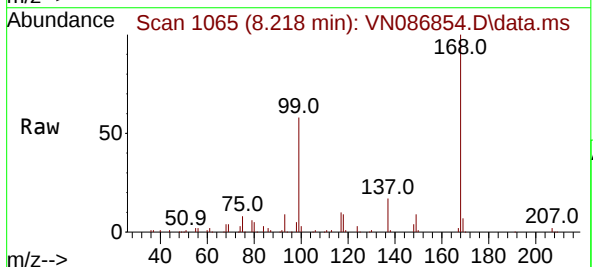
Tgt Ion: 56 Resp: 4521

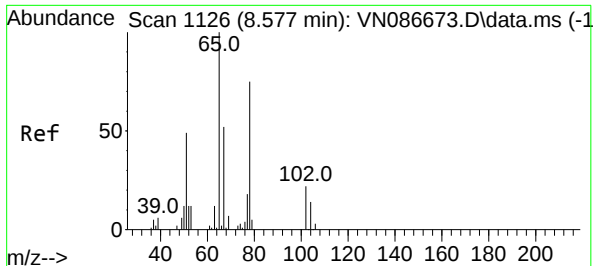
Ion Ratio Lower Upper

56 100

69 181.4 25.0 37.6#

84 161.8 71.0 106.4#





#33

1,2-Dichloroethane-d4

Concen: 50.401 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN086854.D

Acq: 03 Jun 2025 19:48

Instrument :

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ClientSampleId :

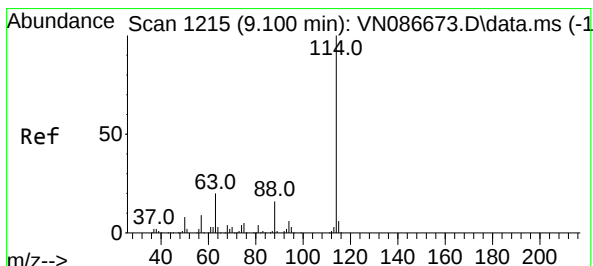
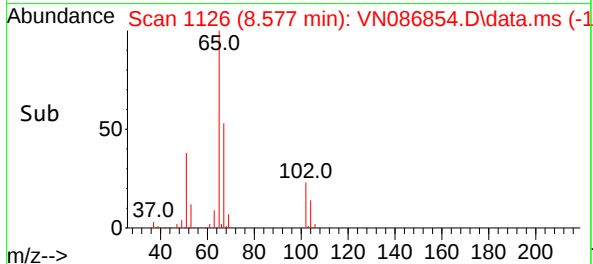
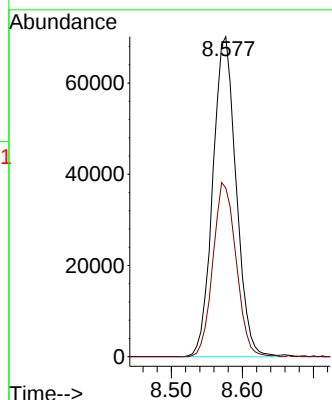
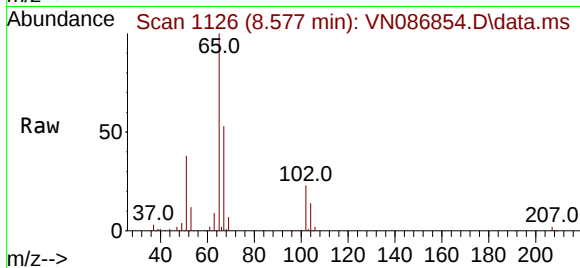
PB168225ZHE#15

Tgt Ion: 65 Resp: 159835

Ion Ratio Lower Upper

65 100

67 54.1 0.0 106.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN086854.D

Acq: 03 Jun 2025 19:48

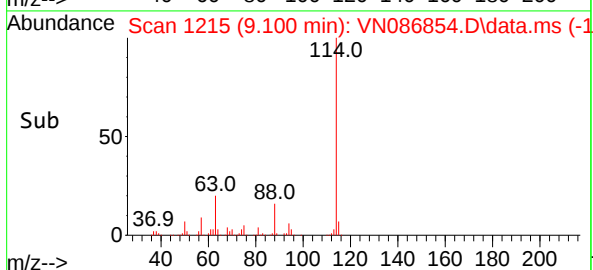
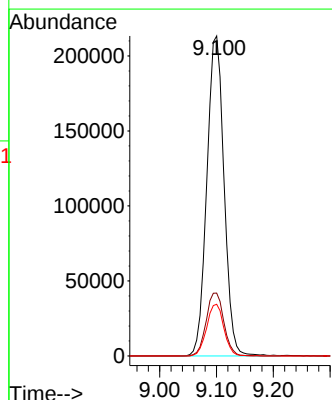
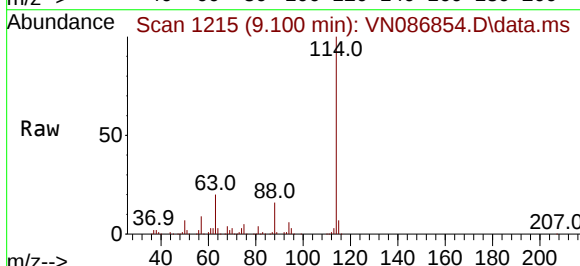
Tgt Ion: 114 Resp: 447218

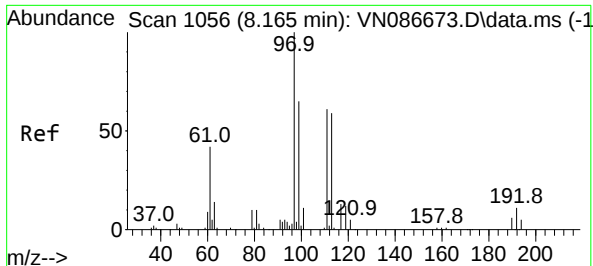
Ion Ratio Lower Upper

114 100

63 19.6 0.0 40.2

88 16.2 0.0 31.2

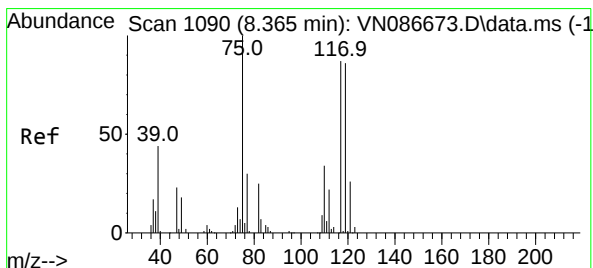
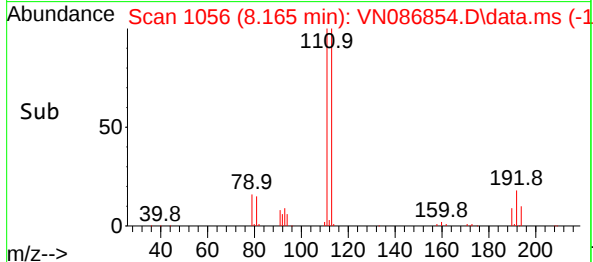
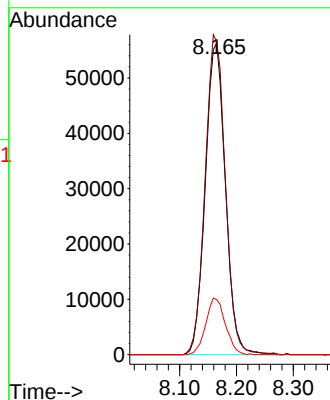
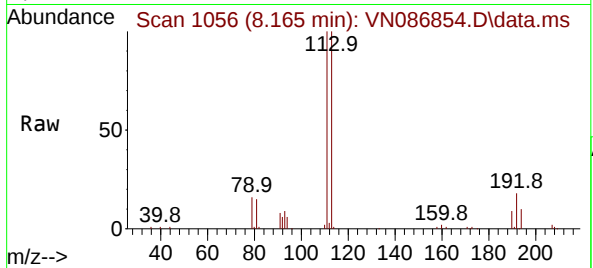




#35
Dibromofluoromethane
Concen: 51.870 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VN086854.D
Acq: 03 Jun 2025 19:48

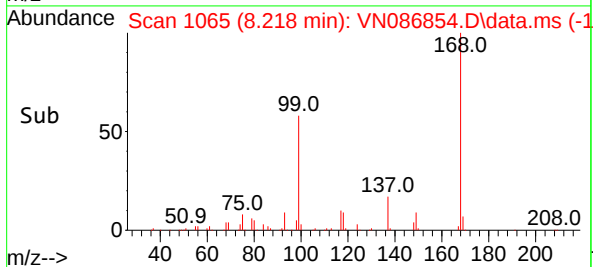
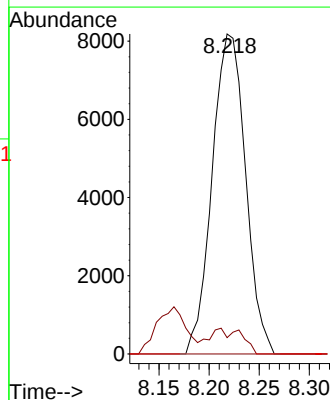
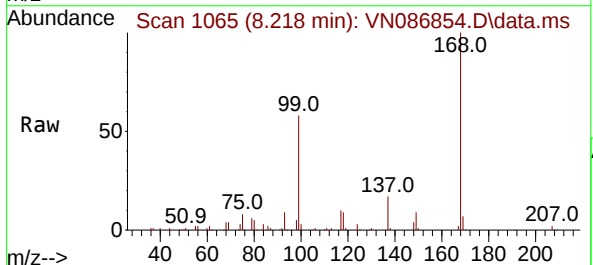
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#15

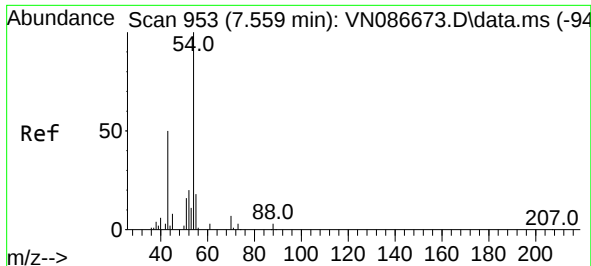
Tgt Ion:113 Resp: 138149
Ion Ratio Lower Upper
113 100
111 103.1 82.2 123.2
192 17.7 13.8 20.8



#36
1,1-Dichloropropene
Concen: 4.822 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.147 min
Lab File: VN086854.D
Acq: 03 Jun 2025 19:48

Tgt Ion: 75 Resp: 18942
Ion Ratio Lower Upper
75 100
110 1.8 17.5 52.5#
77 0.0 25.1 37.7#

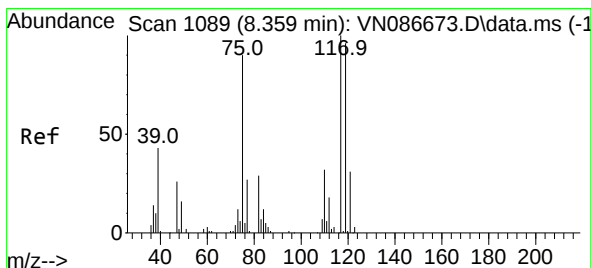
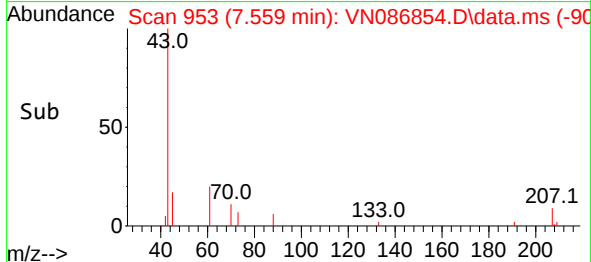
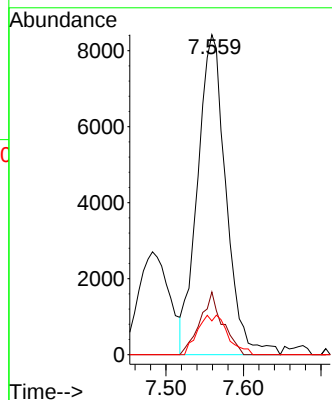
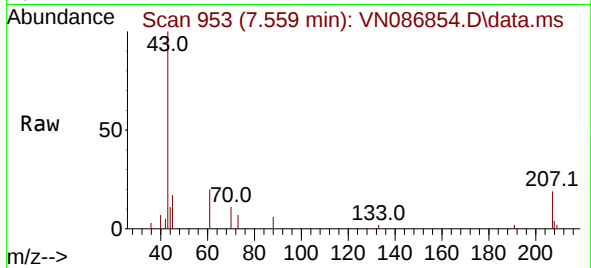




#37
Ethyl Acetate
Concen: 5.396 ug/l
RT: 7.559 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN086854.D
Acq: 03 Jun 2025 19:48

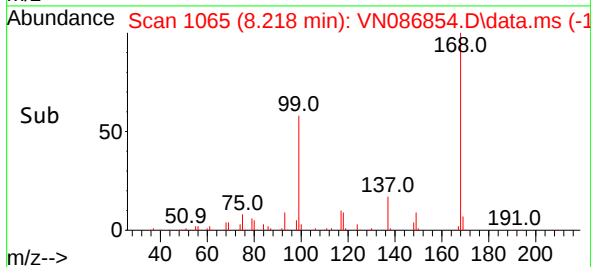
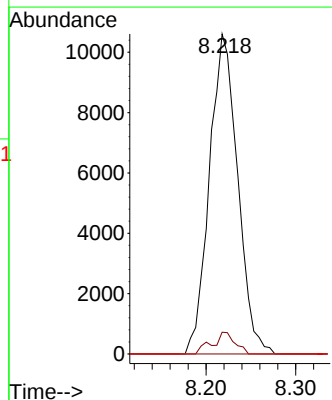
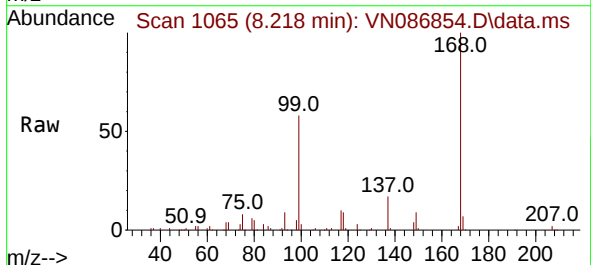
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#15

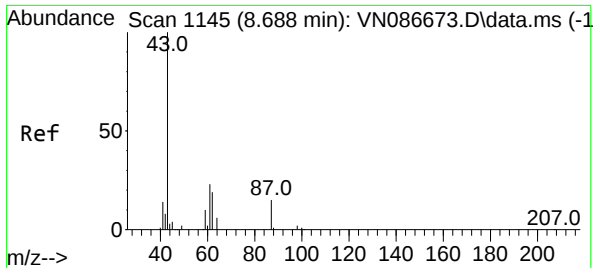
Tgt Ion:	43	Resp:	21412
Ion	Ratio	Lower	Upper
43	100		
61	15.6	11.6	17.4
70	13.1	9.4	14.0



#38
Carbon Tetrachloride
Concen: 5.993 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.141 min
Lab File: VN086854.D
Acq: 03 Jun 2025 19:48

Tgt Ion:	117	Resp:	23199
Ion	Ratio	Lower	Upper
117	100		
119	6.8	77.0	115.6#
121	0.0	25.0	37.6#

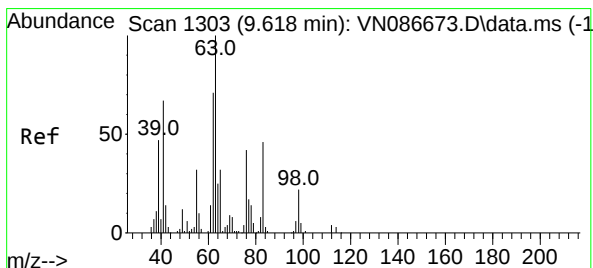
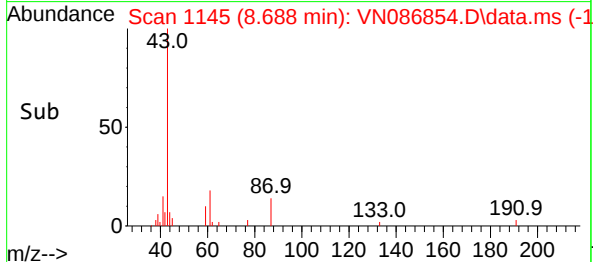
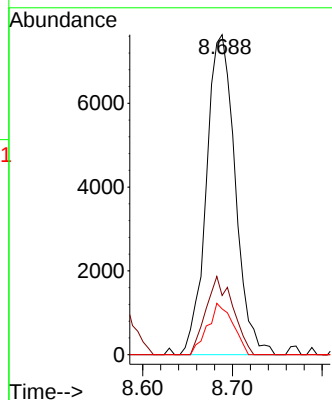
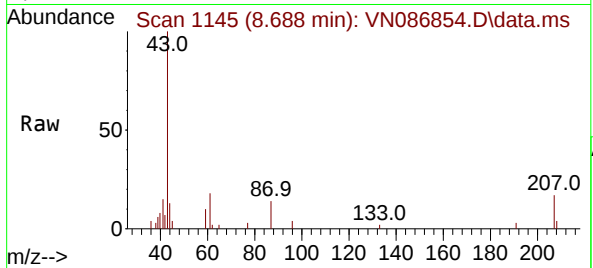




#43
Isopropyl Acetate
Concen: 2.142 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN086854.D
Acq: 03 Jun 2025 19:48

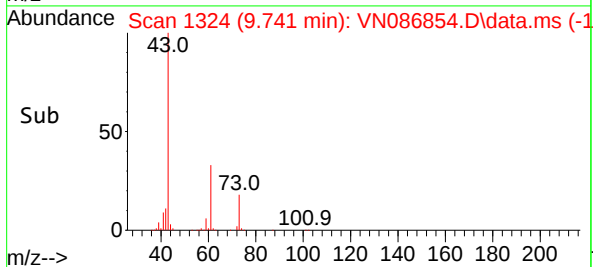
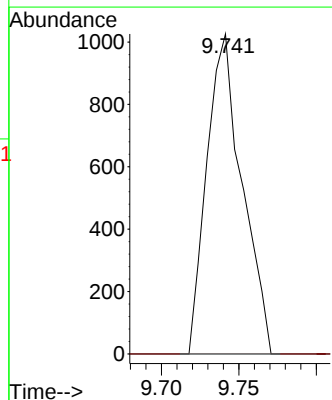
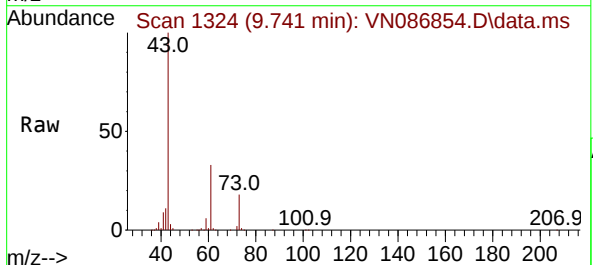
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#15

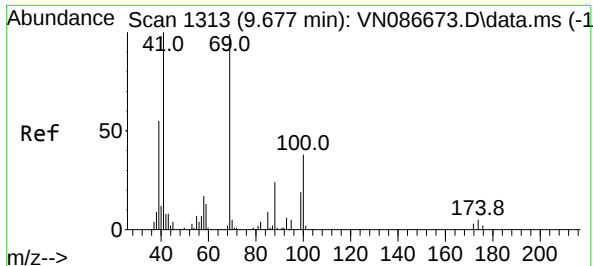
Tgt Ion:	43	Resp:	17043
Ion	Ratio	Lower	Upper
43	100		
61	22.9	21.4	32.2
87	14.1	11.1	16.7



#45
1,2-Dichloropropane
Concen: 0.533 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.124 min
Lab File: VN086854.D
Acq: 03 Jun 2025 19:48

Tgt Ion:	63	Resp:	1624
Ion	Ratio	Lower	Upper
63	100		
65	0.0	25.8	38.6#





#48

Methyl methacrylate

Concen: 35.852 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.065 min

Lab File: VN086854.D

Acq: 03 Jun 2025 19:48

Instrument :

MSVOA_N

ClientSampleId :

PB168225ZHE#15

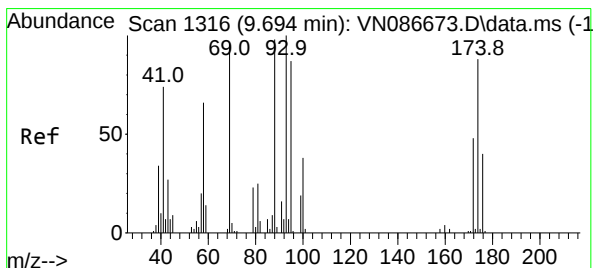
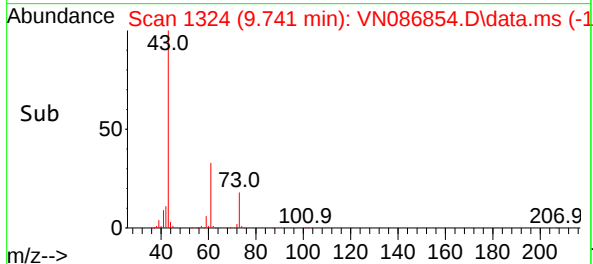
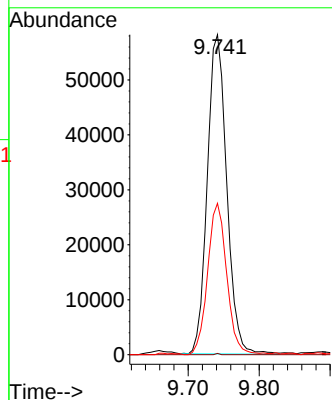
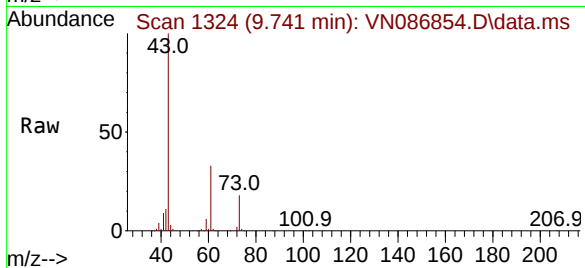
Tgt Ion: 41 Resp: 110524

Ion Ratio Lower Upper

41 100

69 0.1 74.1 111.1#

39 46.8 44.1 66.1



#49

1,4-Dioxane

Concen: 1.026 ug/l

RT: 9.706 min Scan# 1318

Delta R.T. 0.012 min

Lab File: VN086854.D

Acq: 03 Jun 2025 19:48

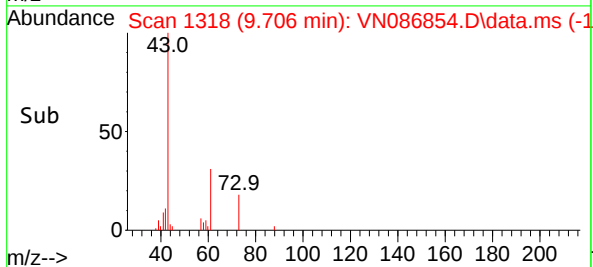
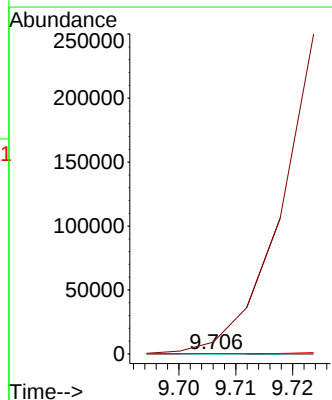
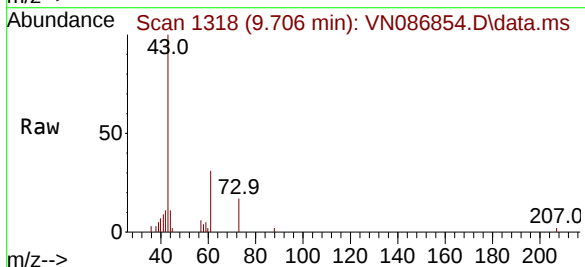
Tgt Ion: 88 Resp: 67

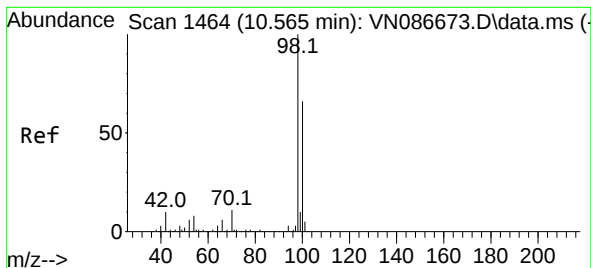
Ion Ratio Lower Upper

88 100

43 0.0 23.6 35.4#

58 0.0 55.3 82.9#





#50

Toluene-d8

Concen: 51.503 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN086854.D

Acq: 03 Jun 2025 19:48

Instrument :

MSVOA_N

ClientSampleId :

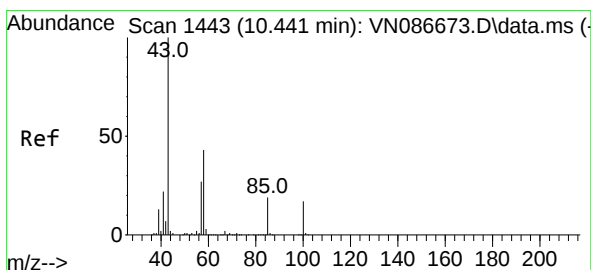
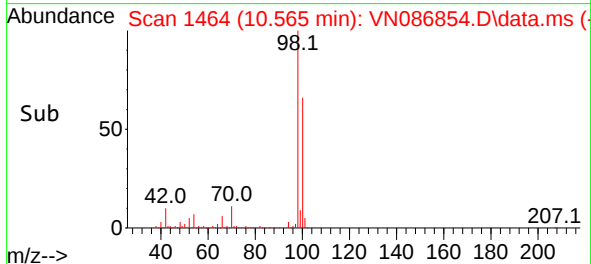
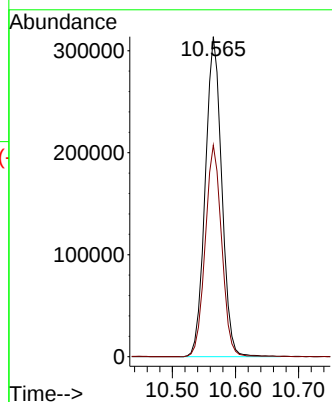
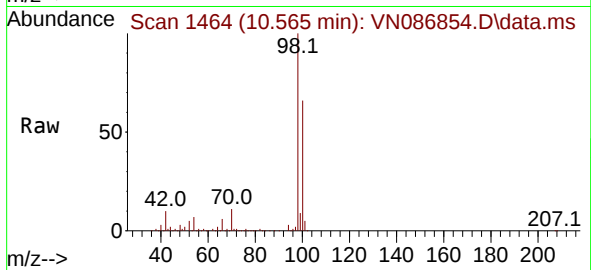
PB168225ZHE#15

Tgt Ion: 98 Resp: 568447

Ion Ratio Lower Upper

98 100

100 65.9 52.9 79.3



#51

4-Methyl-2-Pentanone

Concen: 1.549 ug/l

RT: 10.477 min Scan# 1449

Delta R.T. 0.035 min

Lab File: VN086854.D

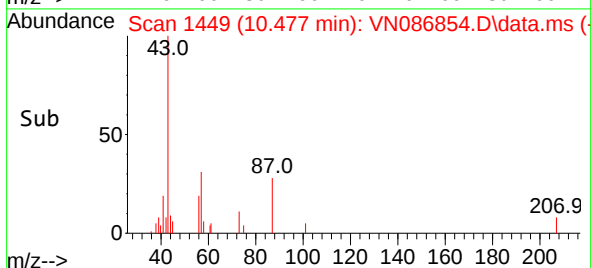
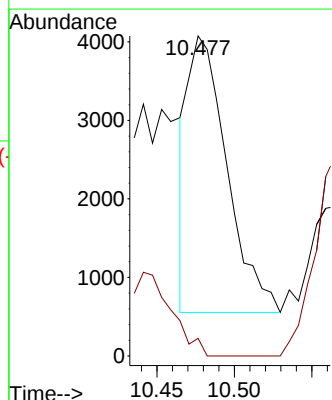
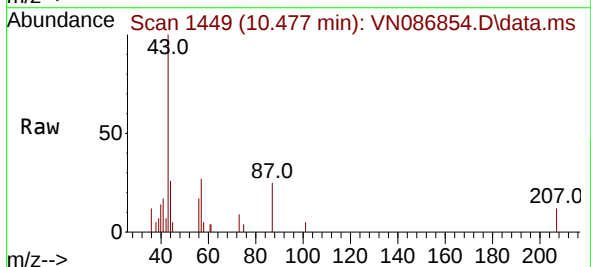
Acq: 03 Jun 2025 19:48

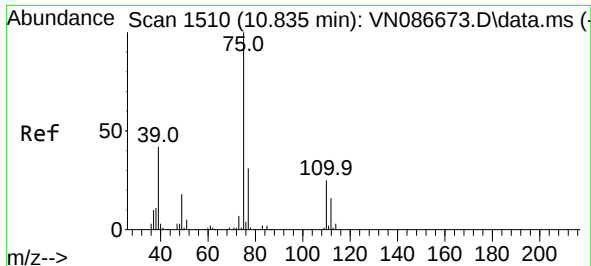
Tgt Ion: 43 Resp: 6215

Ion Ratio Lower Upper

43 100

58 0.0 33.9 50.9#

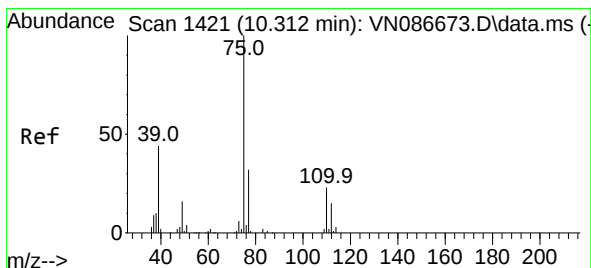
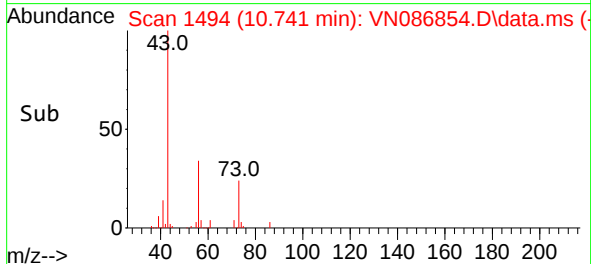
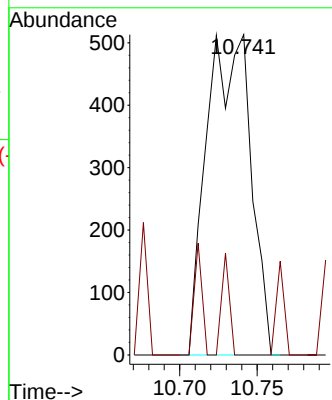
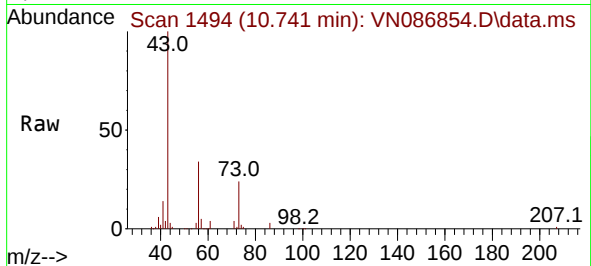




#53
t-1,3-Dichloropropene
Concen: 0.226 ug/l
RT: 10.741 min Scan# 1494
Delta R.T. -0.094 min
Lab File: VN086854.D
Acq: 03 Jun 2025 19:48

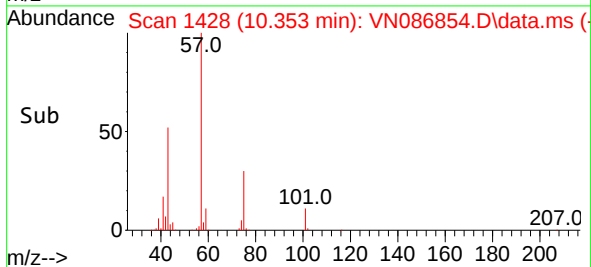
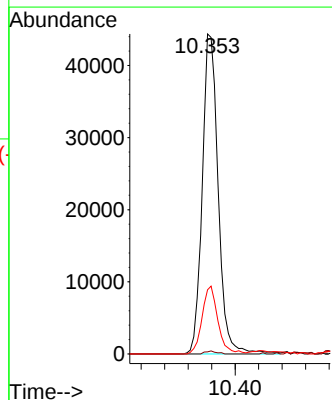
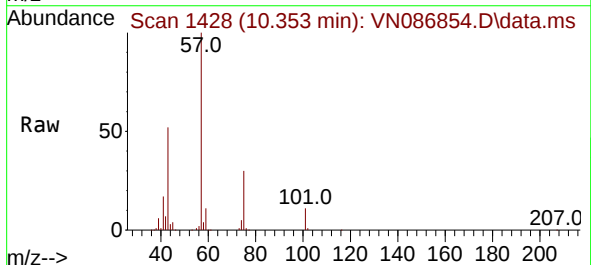
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#15

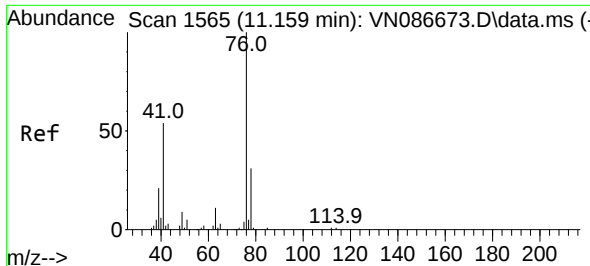
Tgt Ion: 75 Resp: 1012
Ion Ratio Lower Upper
75 100
77 0.0 25.2 37.8#



#54
cis-1,3-Dichloropropene
Concen: 17.071 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.041 min
Lab File: VN086854.D
Acq: 03 Jun 2025 19:48

Tgt Ion: 75 Resp: 83512
Ion Ratio Lower Upper
75 100
77 0.7 25.3 37.9#
39 20.1 35.2 52.8#





#57

1,3-Dichloropropane

Concen: 0.978 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.047 min

Lab File: VN086854.D

Acq: 03 Jun 2025 19:48

Instrument :

MSVOA_N

ClientSampleId :

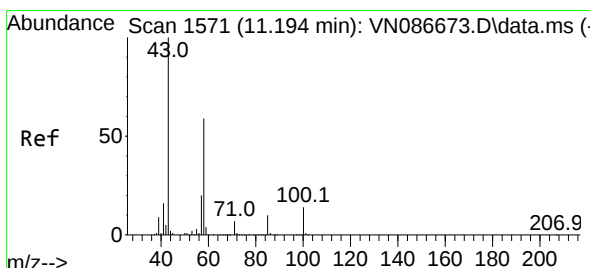
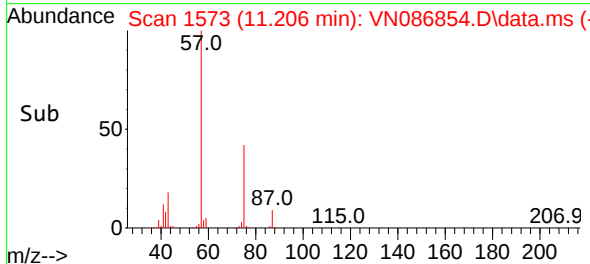
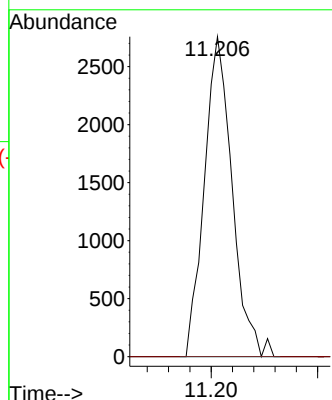
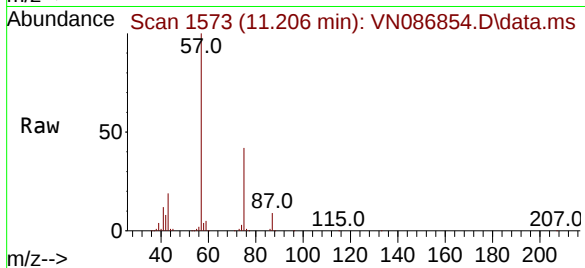
PB168225ZHE#15

Tgt Ion: 76 Resp: 5008

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 28.892 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.012 min

Lab File: VN086854.D

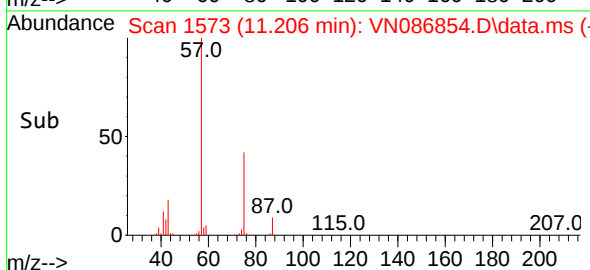
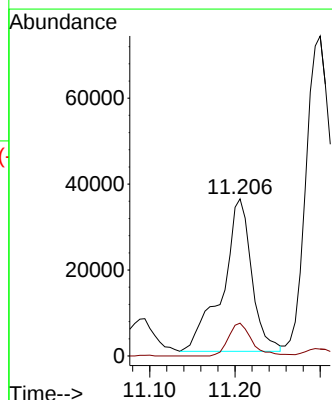
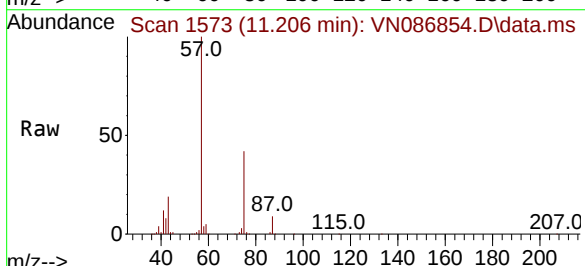
Acq: 03 Jun 2025 19:48

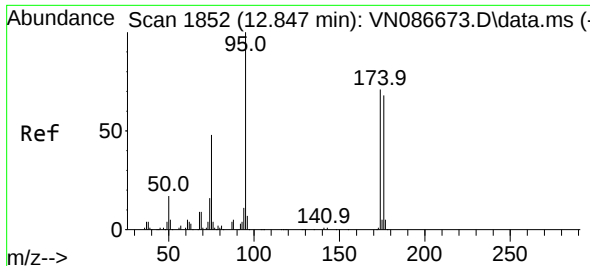
Tgt Ion: 43 Resp: 84645

Ion Ratio Lower Upper

43 100

58 17.3 29.8 89.5#

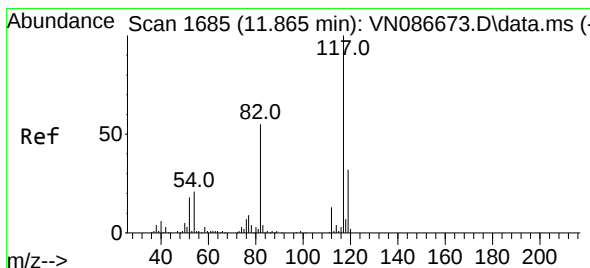
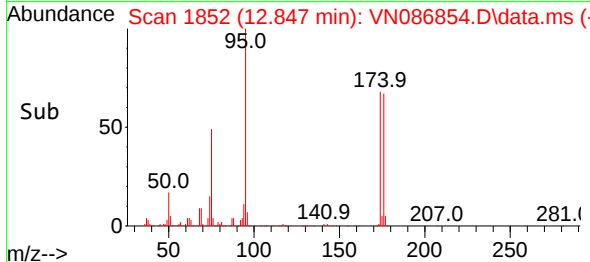
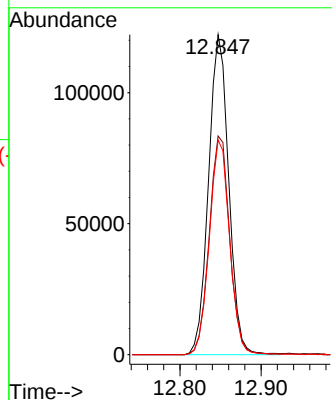
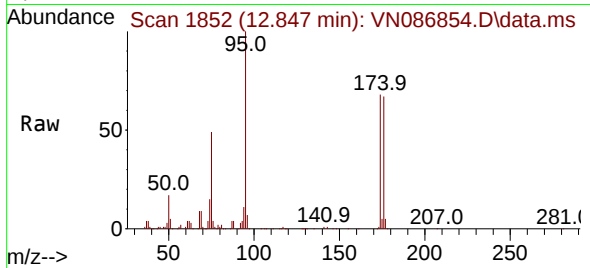




#62
4-Bromofluorobenzene
Concen: 54.075 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086854.D
Acq: 03 Jun 2025 19:48

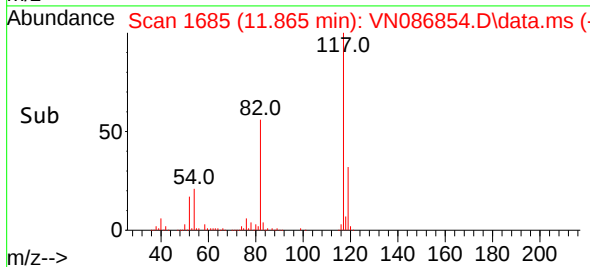
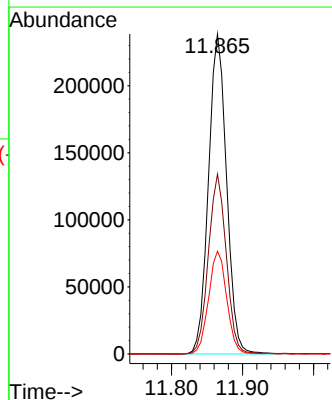
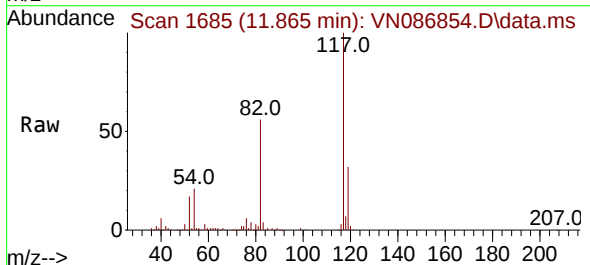
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#15

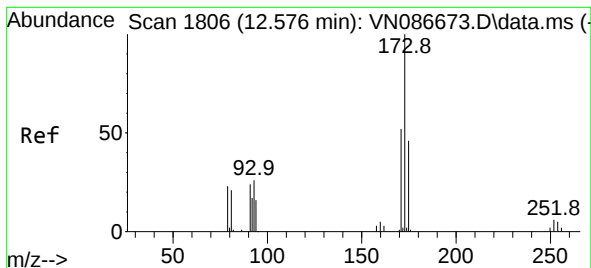
Tgt Ion: 95 Resp: 210740
Ion Ratio Lower Upper
95 100
174 69.3 0.0 145.4
176 67.4 0.0 137.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086854.D
Acq: 03 Jun 2025 19:48

Tgt Ion: 117 Resp: 422170
Ion Ratio Lower Upper
117 100
82 56.2 44.2 66.2
119 32.1 25.4 38.2





#71

Bromoform

Concen: 0.339 ug/l

RT: 12.841 min Scan# 1806

Delta R.T. 0.265 min

Lab File: VN086854.D

Acq: 03 Jun 2025 19:48

Instrument :

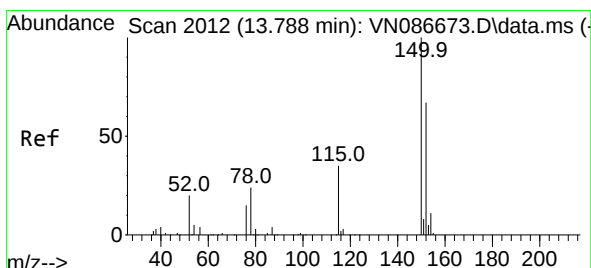
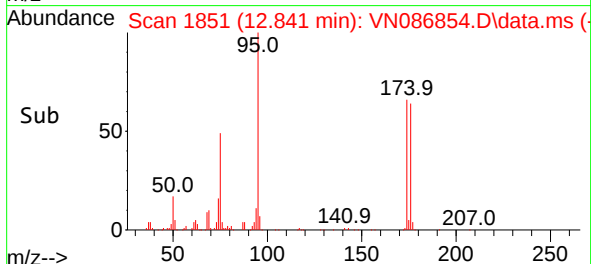
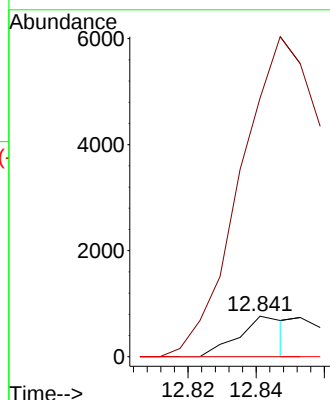
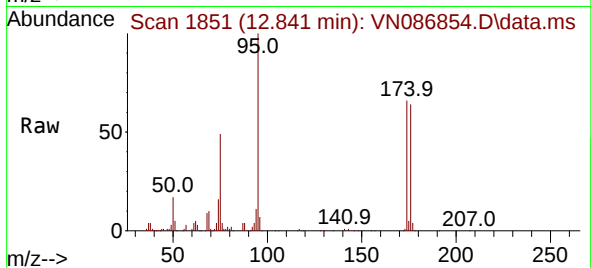
MSVOA_N

ClientSampleId :

PB168225ZHE#15

Tgt Ion:173 Resp: 720

Ion	Ratio	Lower	Upper
173	100		
175	1094.2	23.4	70.2#
254	0.0	0.0	0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

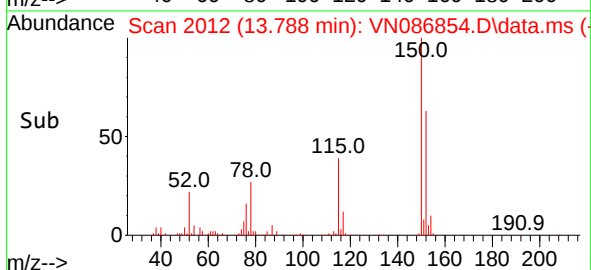
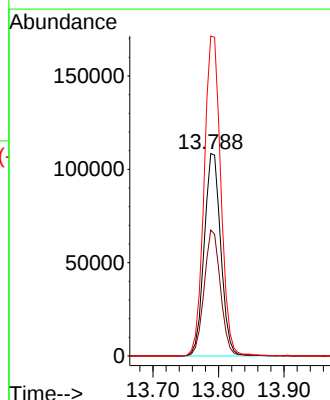
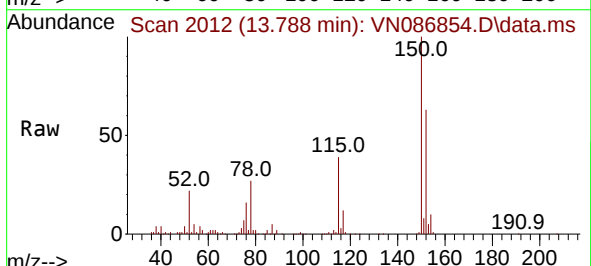
Delta R.T. 0.000 min

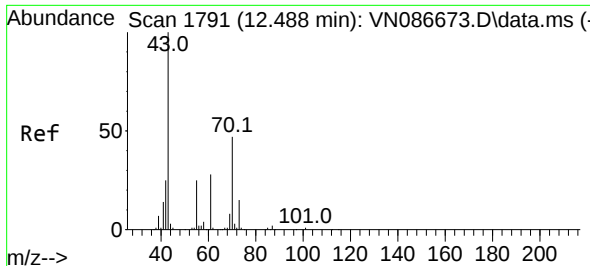
Lab File: VN086854.D

Acq: 03 Jun 2025 19:48

Tgt Ion:152 Resp: 190775

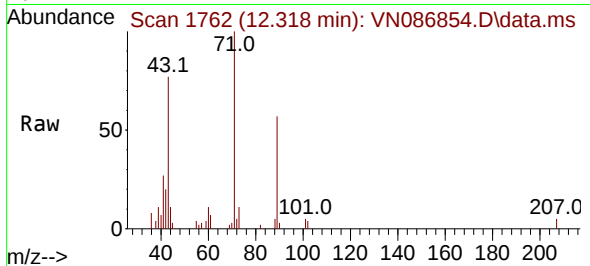
Ion	Ratio	Lower	Upper
152	100		
115	61.2	30.0	90.1
150	159.4	0.0	347.8



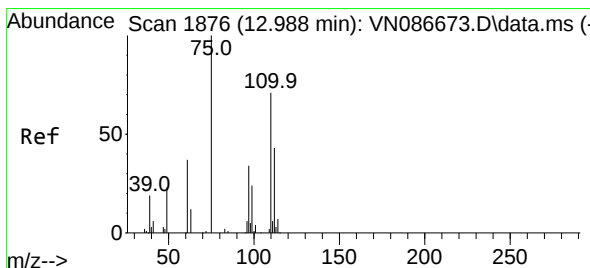
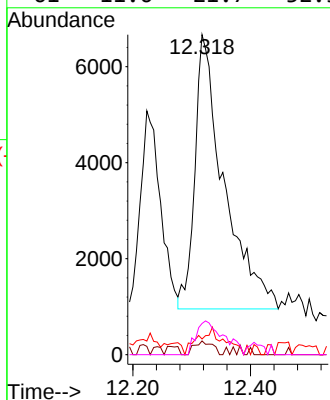
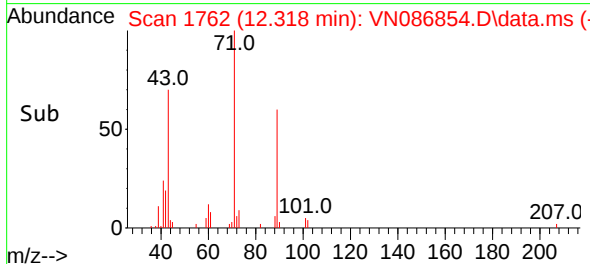


#74
N-amy1 acetate
Concen: 3.187 ug/l
RT: 12.318 min Scan# 11
Delta R.T. -0.171 min
Lab File: VN086854.D
Acq: 03 Jun 2025 19:48

Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#15

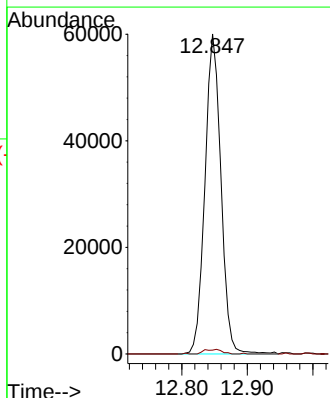
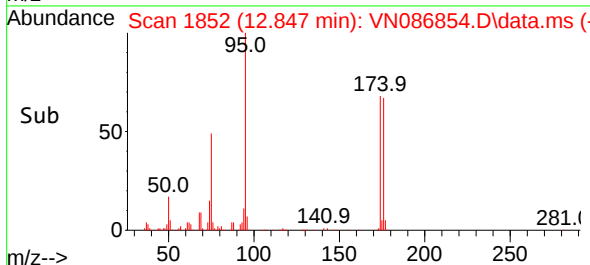
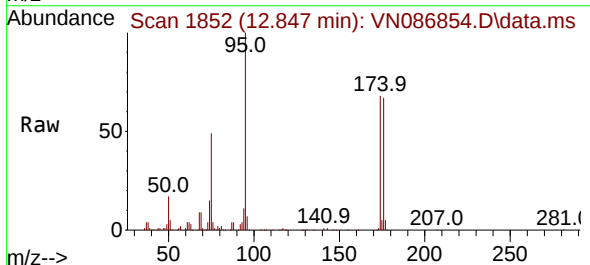


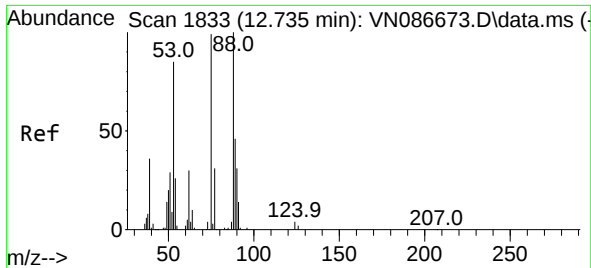
Tgt Ion:	43	Resp:	19620
Ion	Ratio	Lower	Upper
43	100		
70	3.1	37.9	56.9#
55	8.9	20.5	30.7#
61	11.6	21.7	32.5#



#76
1,2,3-Trichloropropane
Concen: 23.619 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086854.D
Acq: 03 Jun 2025 19:48

Tgt Ion:	75	Resp:	101905
Ion	Ratio	Lower	Upper
75	100		
77	1.6	96.0	288.1#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 59.606 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086854.D
 Acq: 03 Jun 2025 19:48

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168225ZHE#15

Tgt Ion: 75 Resp: 101905
 Ion Ratio Lower Upper
 75 100
 53 0.0 70.4 105.6#
 89 0.1 32.4 48.6#

