

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051325\
 Data File : VN086597.D
 Acq On : 13 May 2025 13:22
 Operator : JC\MD
 Sample : PB167932ZHE#16
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167932ZHE#16

Quant Time: May 14 01:43:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

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

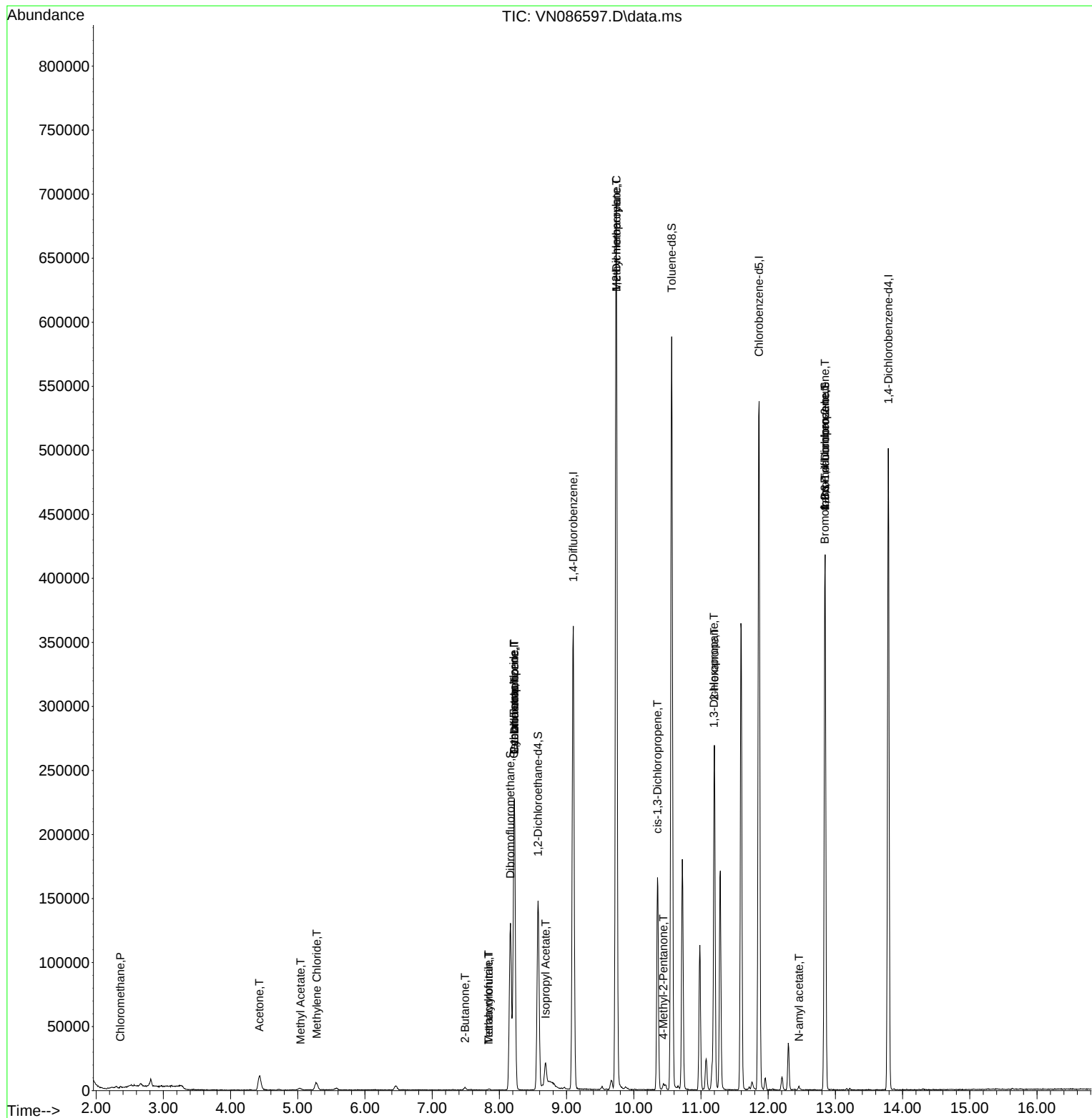
Internal Standards						
1) Pentafluorobenzene	8.224	168	171547	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	322142	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	321243	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	135518	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	122329	49.176	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	98.360%
35) Dibromofluoromethane	8.165	113	94947	63.505	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	127.020%#
50) Toluene-d8	10.565	98	417993	52.311	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	104.620%
62) 4-Bromofluorobenzene	12.847	95	150408	51.607	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	103.220%
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	863	0.292	ug/l	93
16) Acetone	4.430	43	23031	21.564	ug/l	99
18) Methyl Acetate	5.042	43	3239	1.085	ug/l #	51
20) Methylene Chloride	5.283	84	4810	2.092	ug/l #	73
25) 2-Butanone	7.488	43	3363	2.172	ug/l	92
29) Tetrahydrofuran	7.841	42	561	0.542	ug/l #	56
31) Cyclohexane	8.224	56	3654	0.906	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	13894	4.653	ug/l #	48
38) Carbon Tetrachloride	8.218	117	17084	6.007	ug/l #	17
41) Methacrylonitrile	7.841	41	380	0.209	ug/l #	23
43) Isopropyl Acetate	8.688	43	29650	3.454	ug/l #	81
45) 1,2-Dichloropropane	9.741	63	808	0.345	ug/l #	43
48) Methyl methacrylate	9.741	41	63562	23.022	ug/l #	43
51) 4-Methyl-2-Pentanone	10.441	43	3079	0.956	ug/l	99
54) cis-1,3-Dichloropropene	10.353	75	31722	8.028	ug/l #	58
57) 1,3-Dichloropropane	11.194	76	2925	0.768	ug/l #	43
59) 2-Hexanone	11.200	43	53057	22.219	ug/l #	42
71) Bromoform	12.841	173	808	0.454	ug/l #	1
74) N-amyl acetate	12.459	43	2720	0.493	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	77738	24.308	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	77738	58.379	ug/l #	10

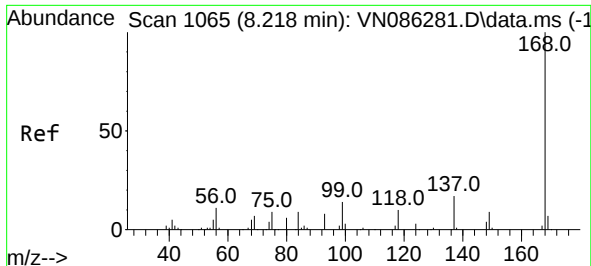
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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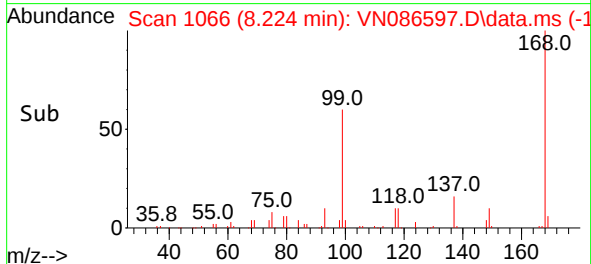
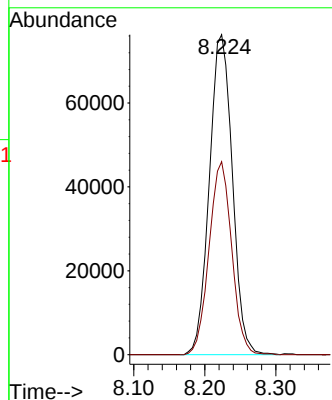
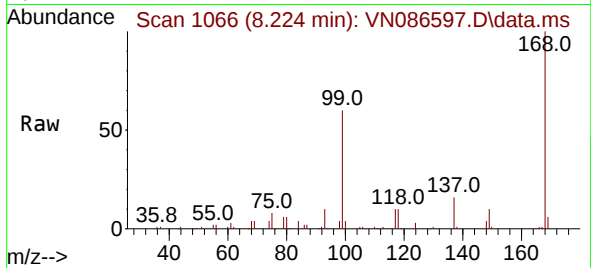




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086597.D
Acq: 13 May 2025 13:22

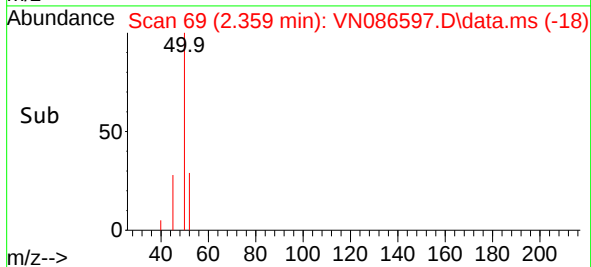
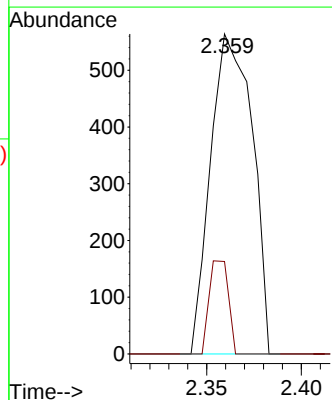
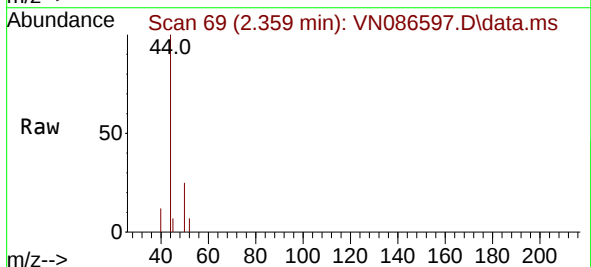
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#16

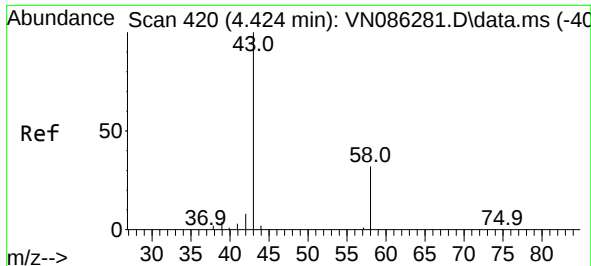
Tgt Ion:168 Resp: 171547
Ion Ratio Lower Upper
168 100
99 60.3 52.5 78.7



#3
Chloromethane
Concen: 0.292 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086597.D
Acq: 13 May 2025 13:22

Tgt Ion: 50 Resp: 863
Ion Ratio Lower Upper
50 100
52 28.9 26.5 39.7

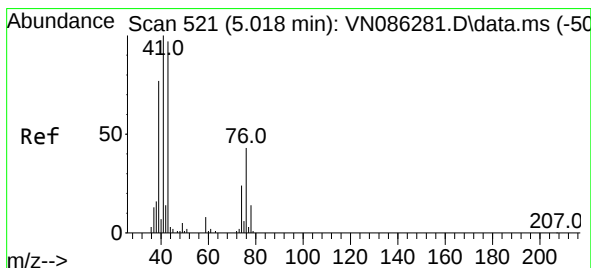
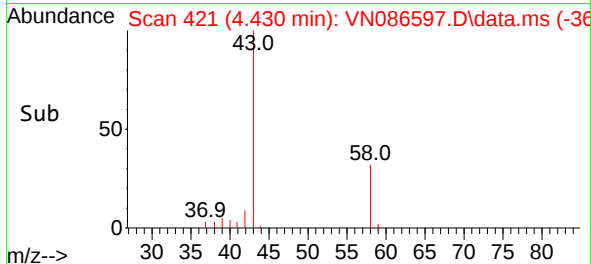
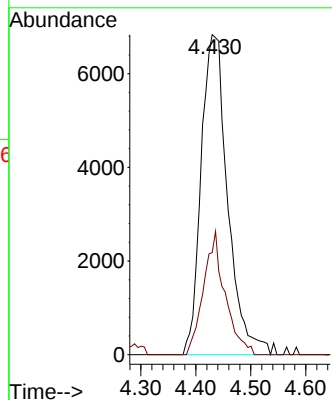
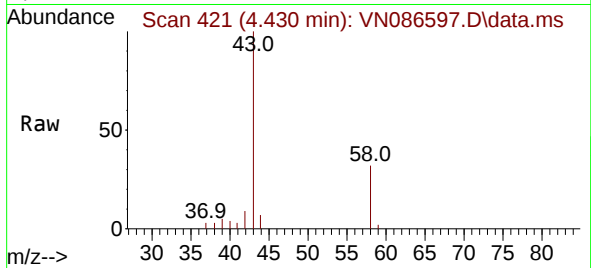




#16
Acetone
Concen: 21.564 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086597.D
Acq: 13 May 2025 13:22

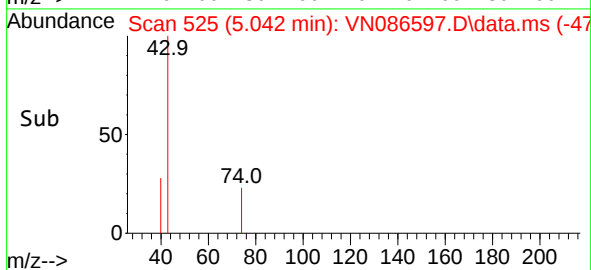
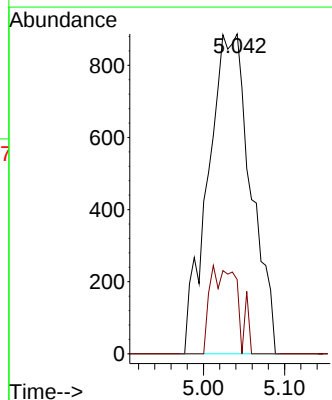
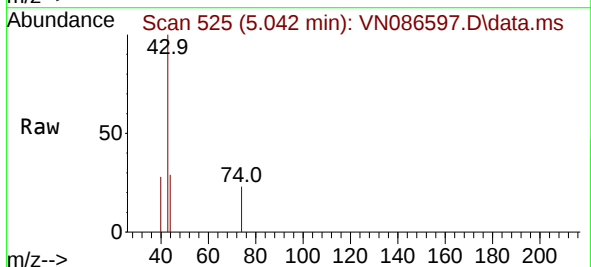
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#16

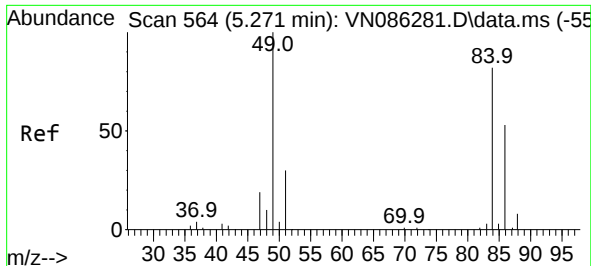
Tgt Ion: 43 Resp: 23031
Ion Ratio Lower Upper
43 100
58 31.9 25.3 37.9



#18
Methyl Acetate
Concen: 1.085 ug/l
RT: 5.042 min Scan# 525
Delta R.T. 0.023 min
Lab File: VN086597.D
Acq: 13 May 2025 13:22

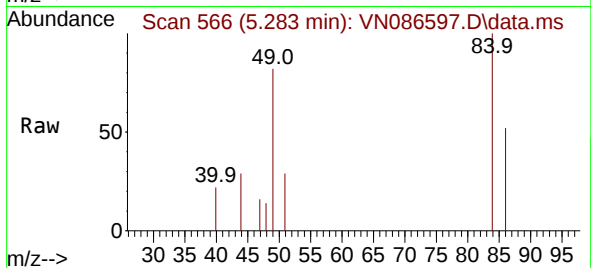
Tgt Ion: 43 Resp: 3239
Ion Ratio Lower Upper
43 100
74 0.0 19.8 29.6#



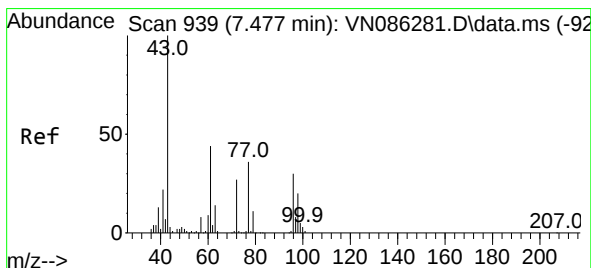
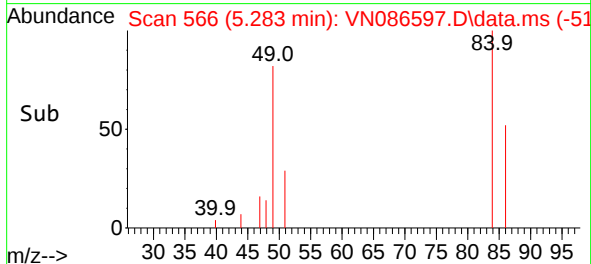
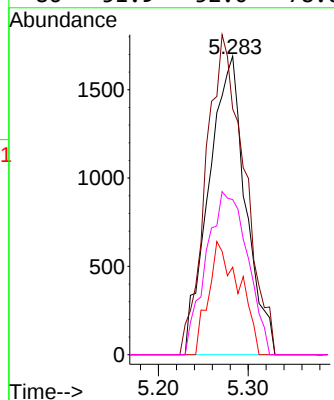


#20
Methylene Chloride
Concen: 2.092 ug/l
RT: 5.283 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN086597.D
Acq: 13 May 2025 13:22

Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#16

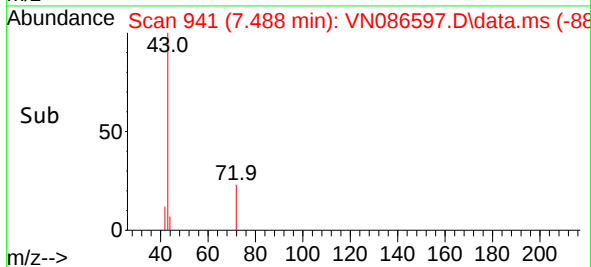
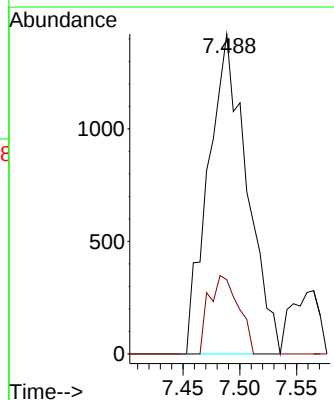
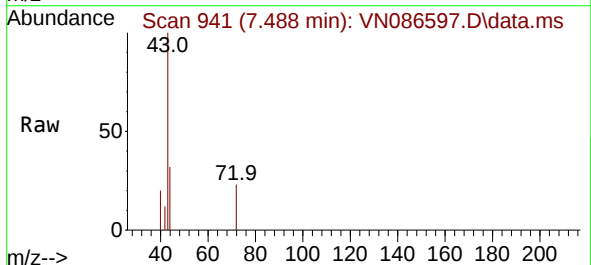


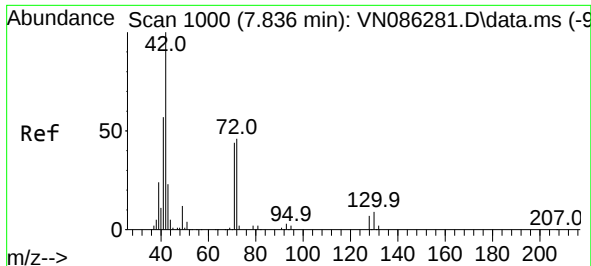
Tgt Ion:	84	Resp:	4810
Ion	Ratio	Lower	Upper
84	100		
49	82.3	98.2	147.2#
51	29.3	29.8	44.6#
86	51.9	52.0	78.0#



#25
2-Butanone
Concen: 2.172 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086597.D
Acq: 13 May 2025 13:22

Tgt Ion:	43	Resp:	3363
Ion	Ratio	Lower	Upper
43	100		
72	23.2	21.7	32.5





#29

Tetrahydrofuran

Concen: 0.542 ug/l

RT: 7.841 min Scan# 1066

Delta R.T. 0.006 min

Lab File: VN086597.D

Acq: 13 May 2025 13:22

Instrument :

MSVOA_N

ClientSampleId :

PB167932ZHE#16

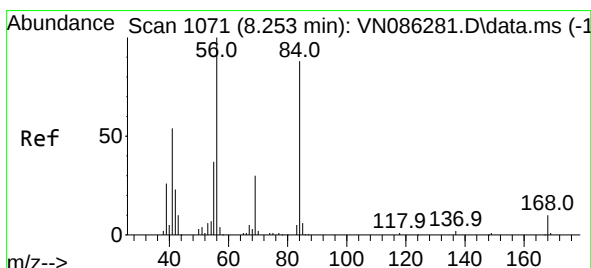
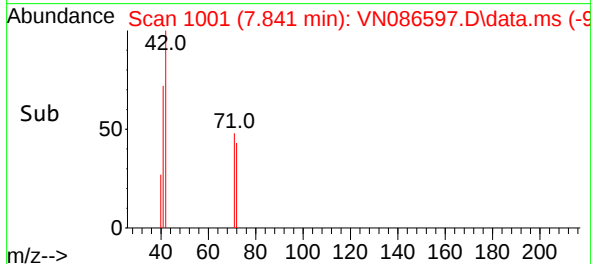
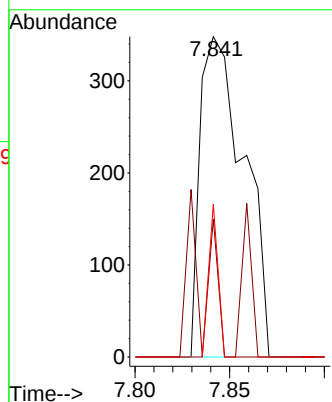
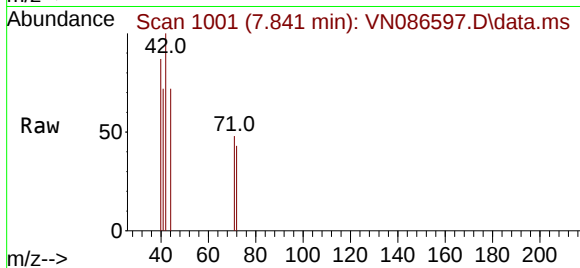
Tgt Ion: 42 Resp: 561

Ion Ratio Lower Upper

42 100

72 20.9 36.2 54.4#

71 10.5 34.0 51.0#



#31

Cyclohexane

Concen: 0.906 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.029 min

Lab File: VN086597.D

Acq: 13 May 2025 13:22

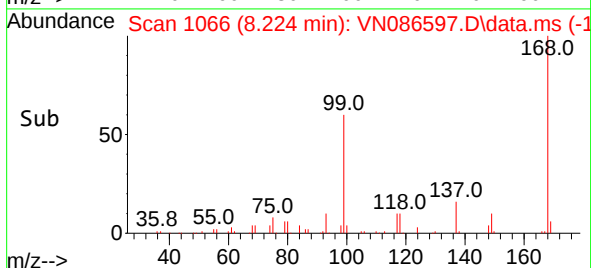
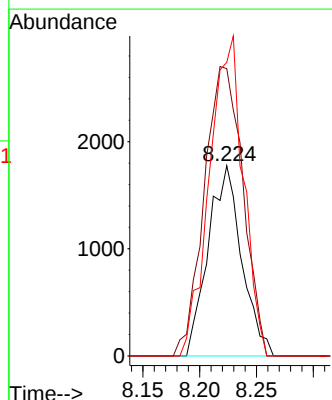
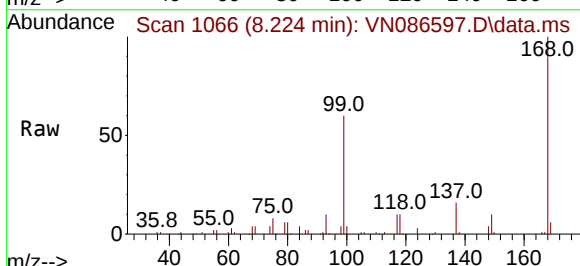
Tgt Ion: 56 Resp: 3654

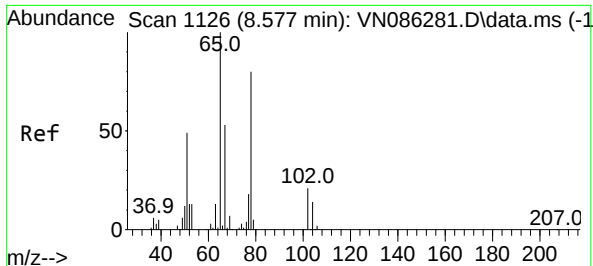
Ion Ratio Lower Upper

56 100

69 151.0 24.2 36.2#

84 154.3 70.3 105.5#





#33

1,2-Dichloroethane-d4

Concen: 49.176 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086597.D

Acq: 13 May 2025 13:22

Instrument :

MSVOA_N

ClientSampleId :

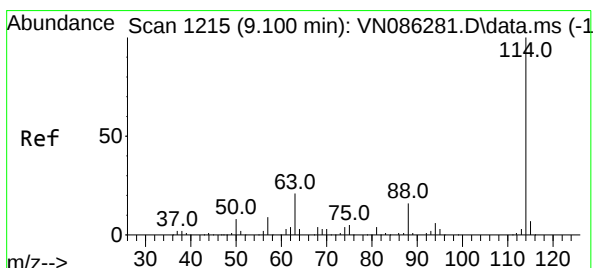
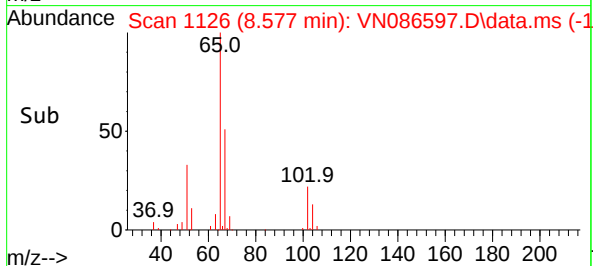
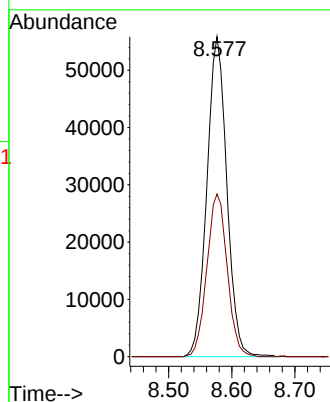
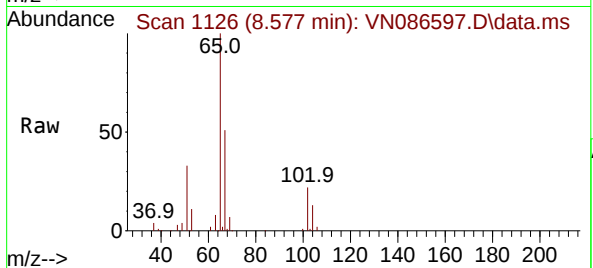
PB167932ZHE#16

Tgt Ion: 65 Resp: 122329

Ion Ratio Lower Upper

65 100

67 51.8 0.0 106.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086597.D

Acq: 13 May 2025 13:22

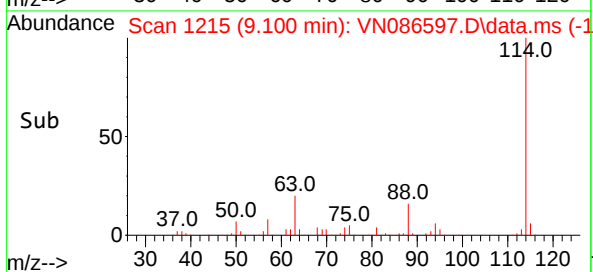
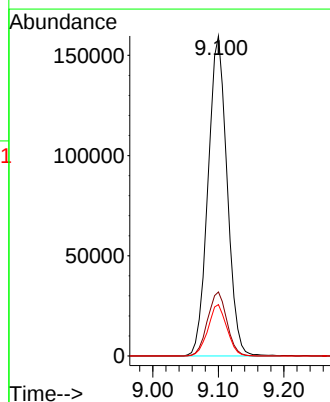
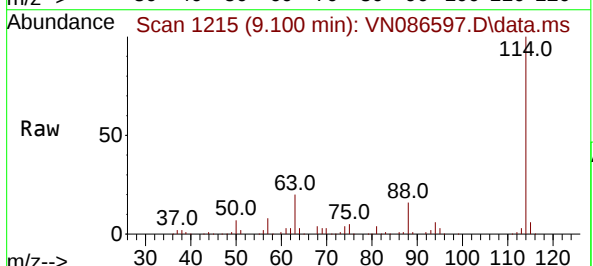
Tgt Ion: 114 Resp: 322142

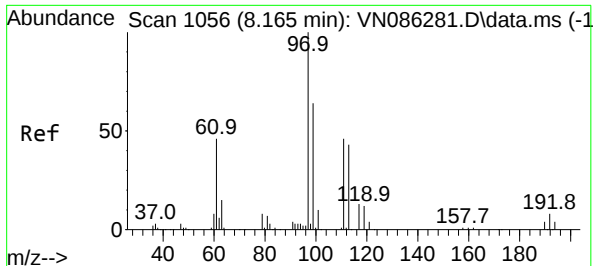
Ion Ratio Lower Upper

114 100

63 20.0 0.0 42.6

88 16.0 0.0 31.8





#35

Dibromofluoromethane

Concen: 63.505 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086597.D

Acq: 13 May 2025 13:22

Instrument :

MSVOA_N

ClientSampleId :

PB167932ZHE#16

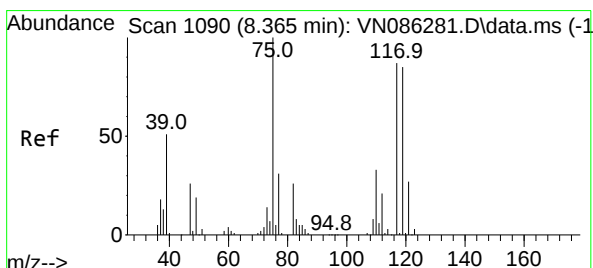
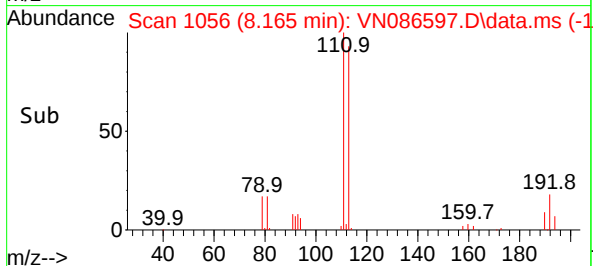
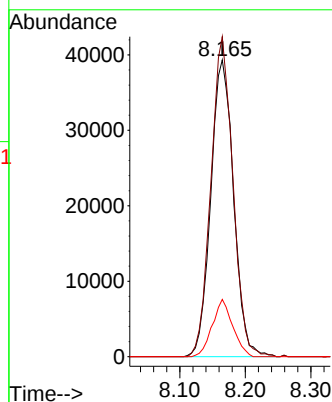
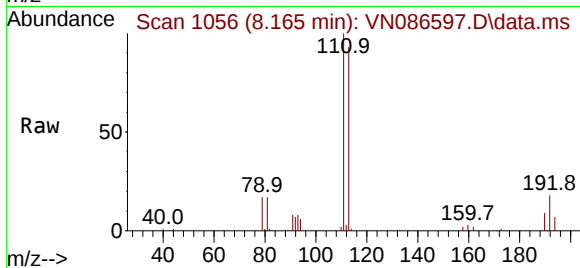
Tgt Ion:113 Resp: 94947

Ion Ratio Lower Upper

113 100

111 104.3 83.4 125.0

192 17.3 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.653 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086597.D

Acq: 13 May 2025 13:22

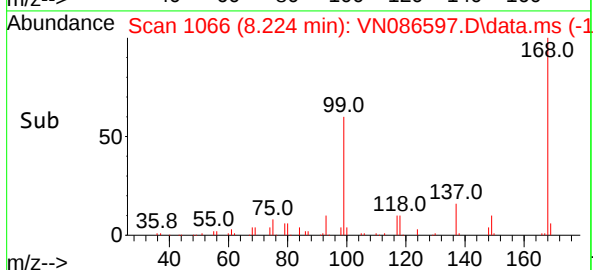
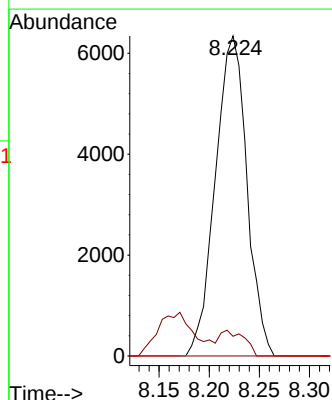
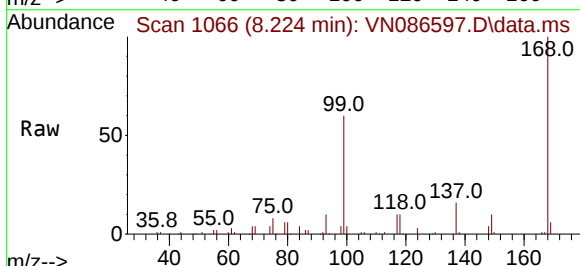
Tgt Ion: 75 Resp: 13894

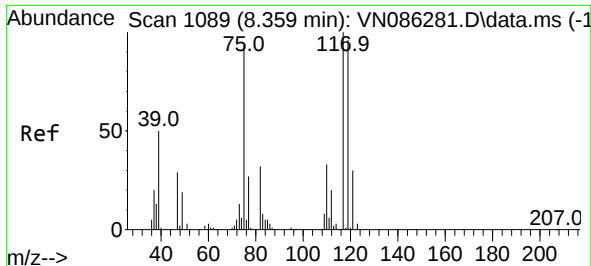
Ion Ratio Lower Upper

75 100

110 6.1 16.8 50.4#

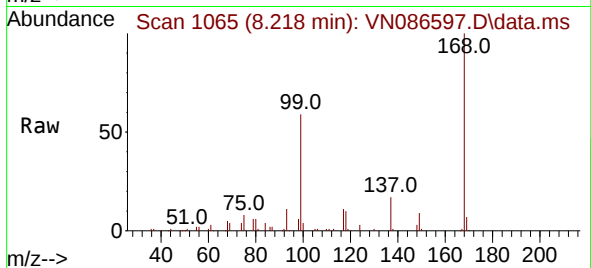
77 0.0 24.9 37.3#



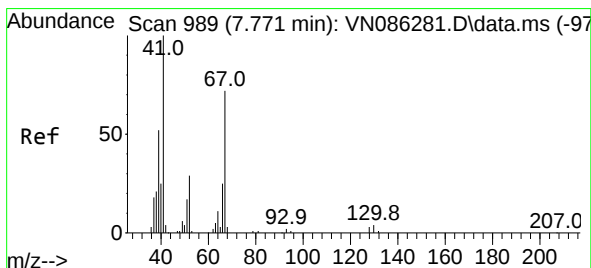
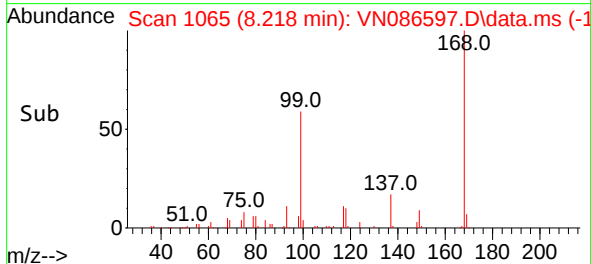
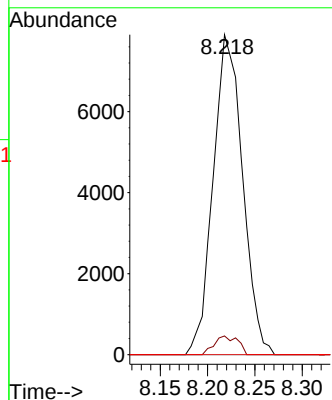


#38
Carbon Tetrachloride
Concen: 6.007 ug/l
RT: 8.218 min Scan# 1001
Delta R.T. -0.141 min
Lab File: VN086597.D
Acq: 13 May 2025 13:22

Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#16

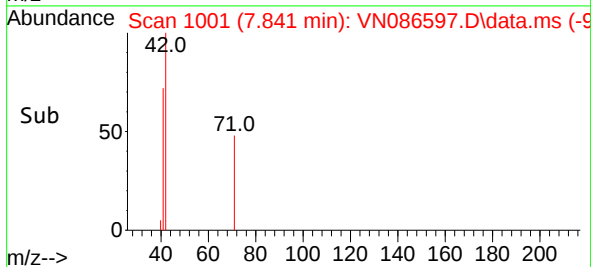
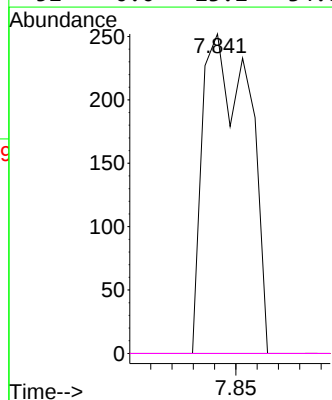
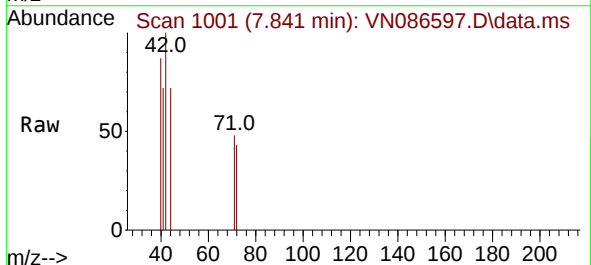


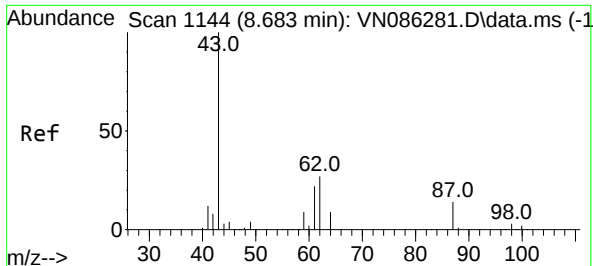
Tgt Ion: 117 Resp: 17084
Ion Ratio Lower Upper
117 100
119 5.8 76.8 115.2#
121 0.0 23.8 35.8#



#41
Methacrylonitrile
Concen: 0.209 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.071 min
Lab File: VN086597.D
Acq: 13 May 2025 13:22

Tgt Ion: 41 Resp: 380
Ion Ratio Lower Upper
41 100
39 0.0 43.0 64.4#
67 0.0 58.8 88.2#
52 0.0 23.2 34.8#

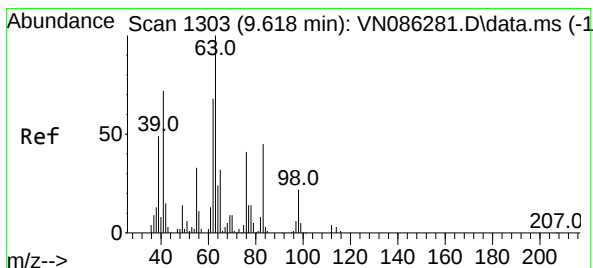
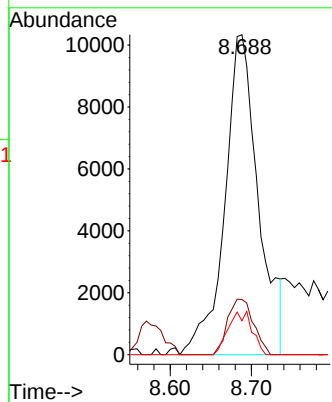
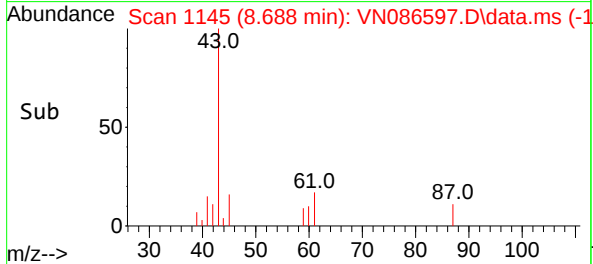
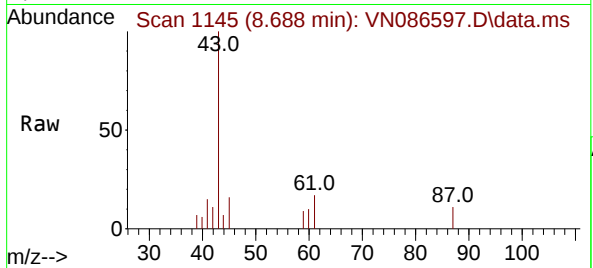




#43
Isopropyl Acetate
Concen: 3.454 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.005 min
Lab File: VN086597.D
Acq: 13 May 2025 13:22

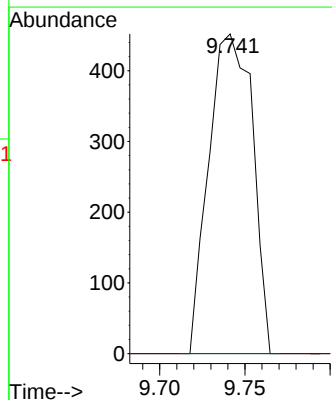
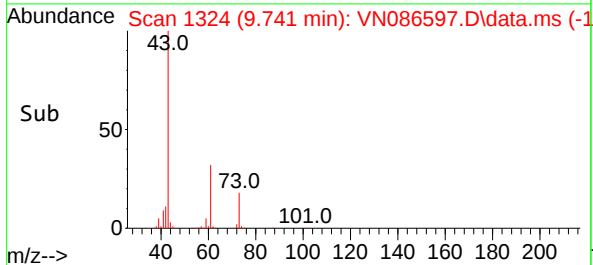
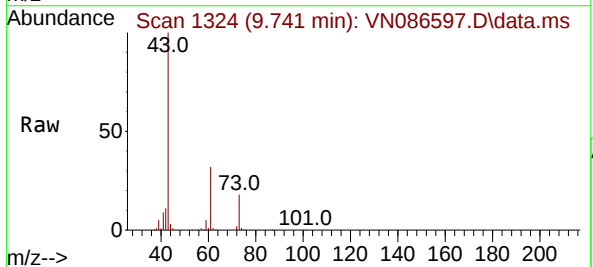
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#16

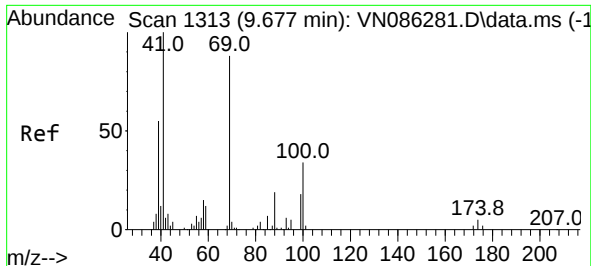
Tgt Ion: 43 Resp: 29650
Ion Ratio Lower Upper
43 100
61 13.4 20.5 30.7#
87 9.6 10.5 15.7#



#45
1,2-Dichloropropane
Concen: 0.345 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.123 min
Lab File: VN086597.D
Acq: 13 May 2025 13:22

Tgt Ion: 63 Resp: 808
Ion Ratio Lower Upper
63 100
65 0.0 25.4 38.2#

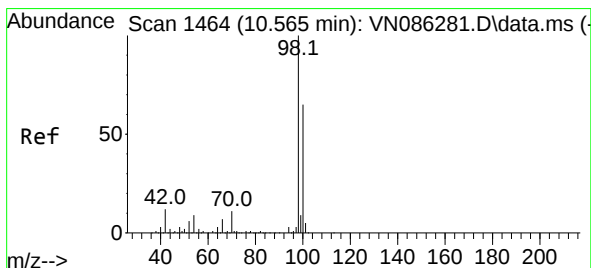
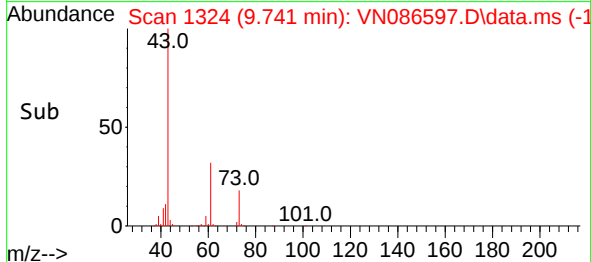
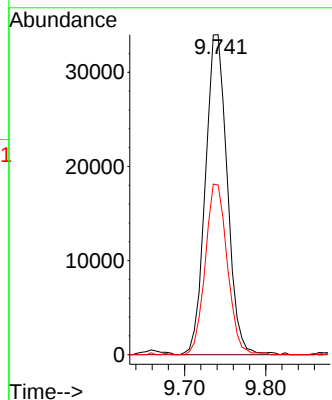
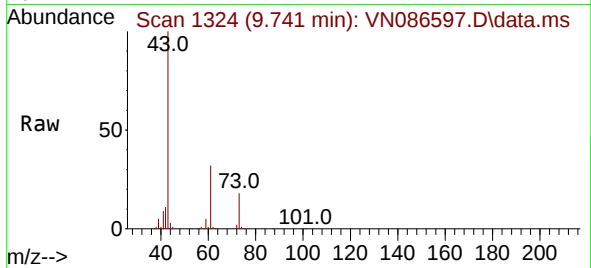




#48
Methyl methacrylate
Concen: 23.022 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.065 min
Lab File: VN086597.D
Acq: 13 May 2025 13:22

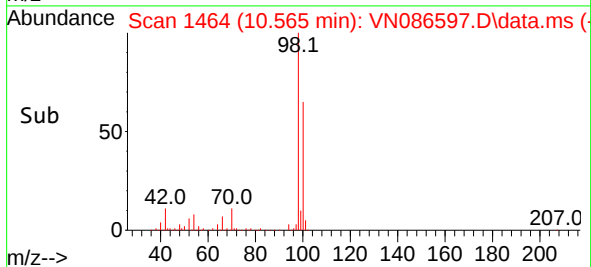
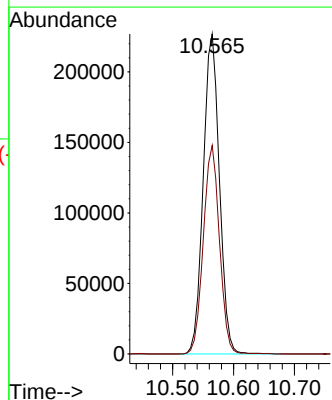
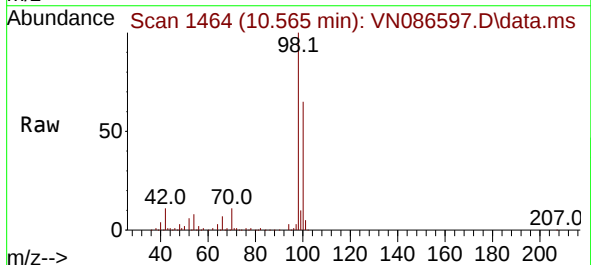
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#16

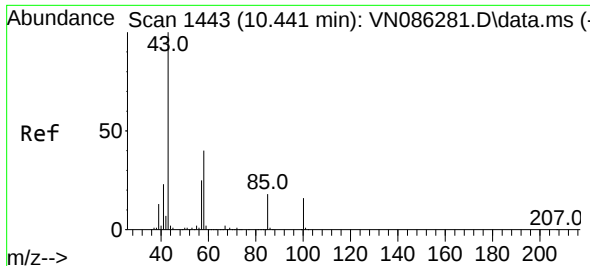
Tgt Ion: 41 Resp: 63562
Ion Ratio Lower Upper
41 100
69 0.0 68.2 102.2#
39 53.9 45.2 67.8



#50
Toluene-d8
Concen: 52.311 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086597.D
Acq: 13 May 2025 13:22

Tgt Ion: 98 Resp: 417993
Ion Ratio Lower Upper
98 100
100 65.1 52.5 78.7

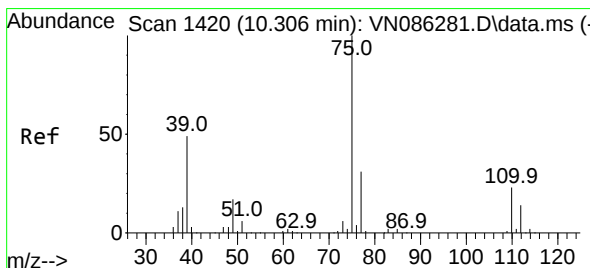
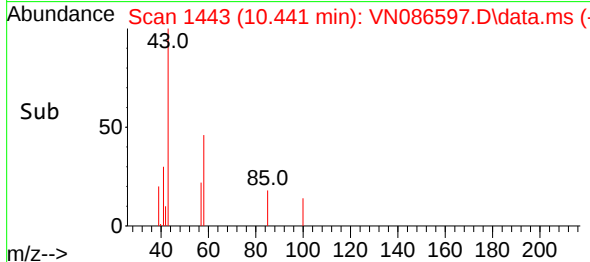
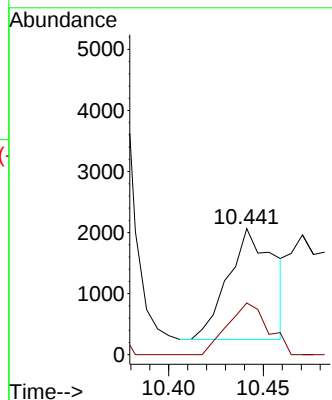
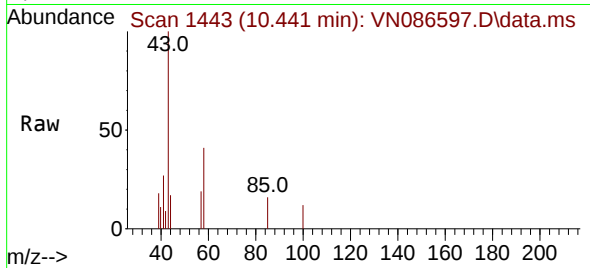




#51
4-Methyl-2-Pentanone
Concen: 0.956 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086597.D
Acq: 13 May 2025 13:22

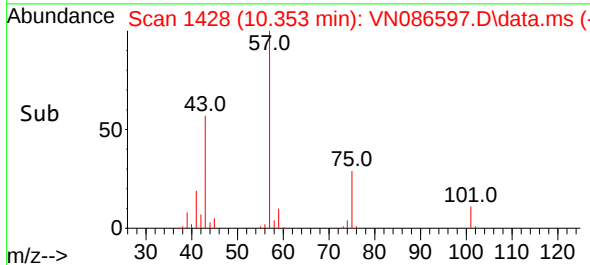
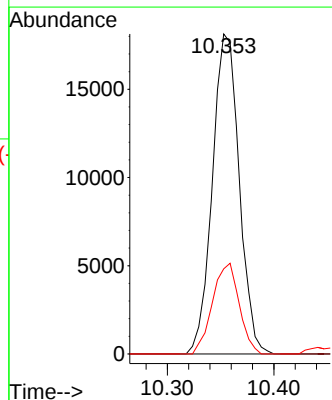
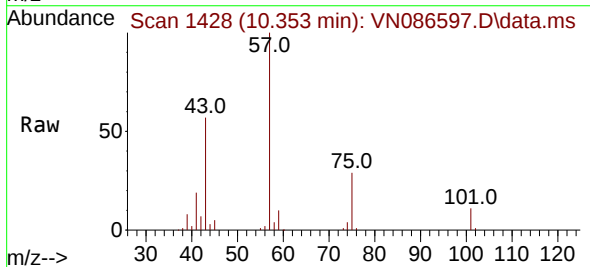
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#16

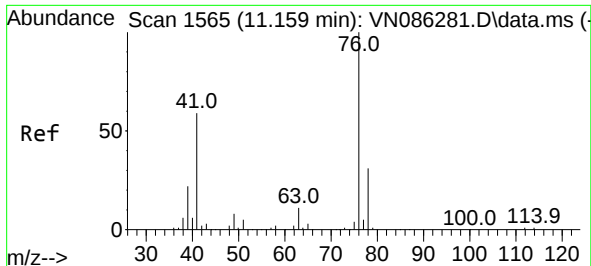
Tgt Ion: 43 Resp: 3079
Ion Ratio Lower Upper
43 100
58 40.9 32.2 48.4



#54
cis-1,3-Dichloropropene
Concen: 8.028 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN086597.D
Acq: 13 May 2025 13:22

Tgt Ion: 75 Resp: 31722
Ion Ratio Lower Upper
75 100
77 0.0 25.2 37.8#
39 26.6 39.3 58.9#





#57

1,3-Dichloropropane

Concen: 0.768 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.035 min

Lab File: VN086597.D

Acq: 13 May 2025 13:22

Instrument :

MSVOA_N

ClientSampleId :

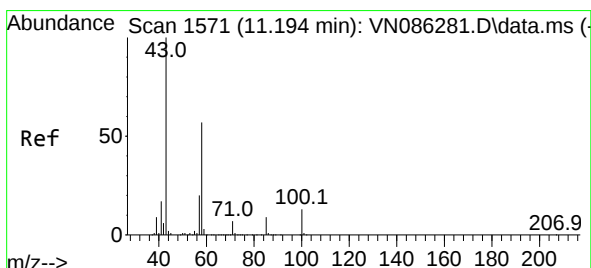
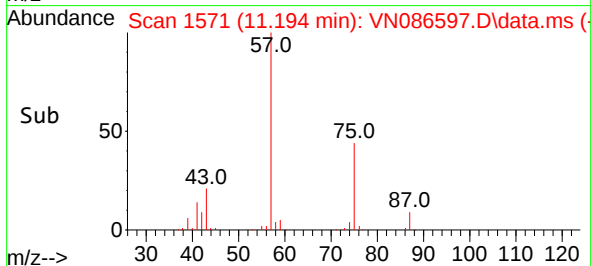
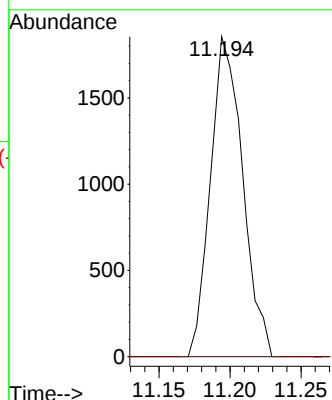
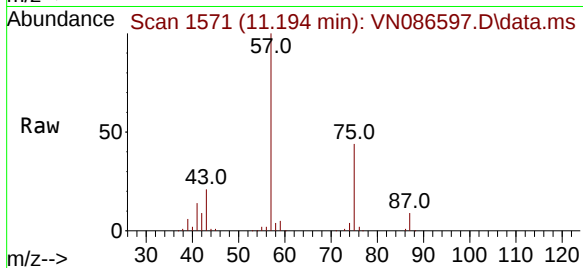
PB167932ZHE#16

Tgt Ion: 76 Resp: 2925

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 22.219 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086597.D

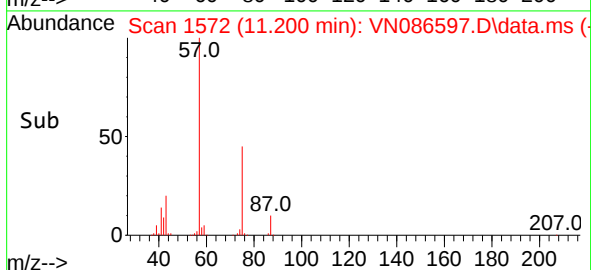
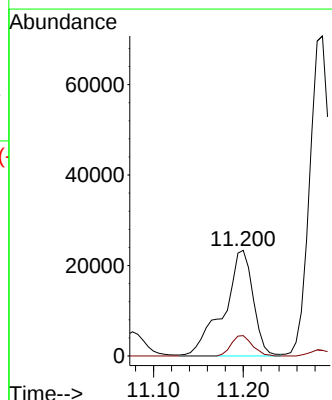
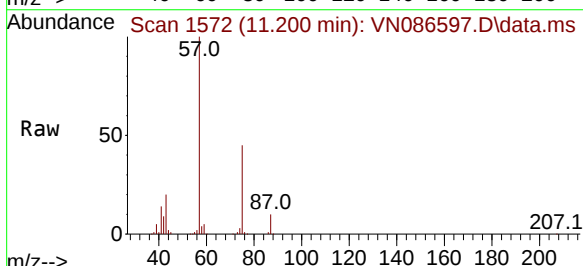
Acq: 13 May 2025 13:22

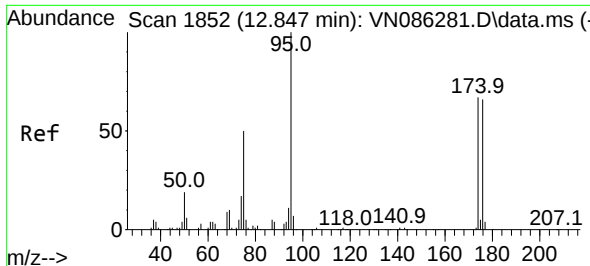
Tgt Ion: 43 Resp: 53057

Ion Ratio Lower Upper

43 100

58 13.8 28.3 85.0#

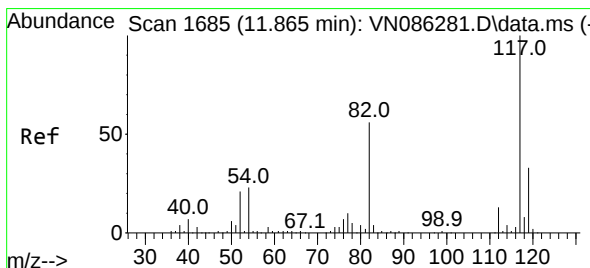
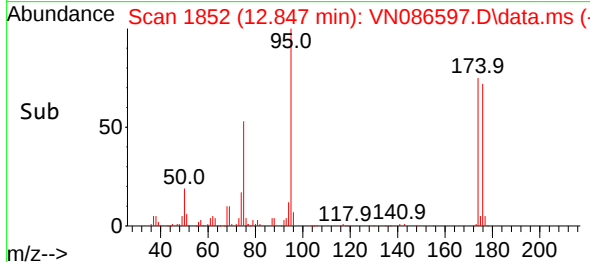
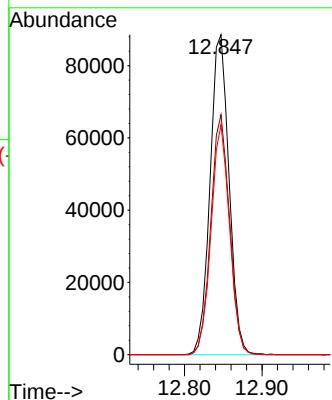
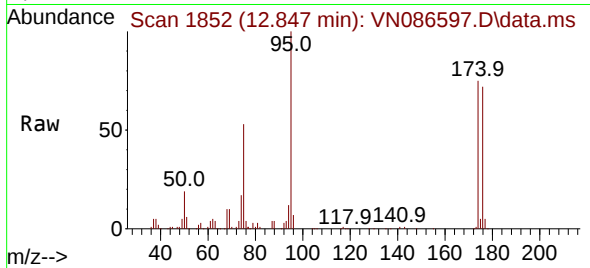




#62
4-Bromofluorobenzene
Concen: 51.607 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086597.D
Acq: 13 May 2025 13:22

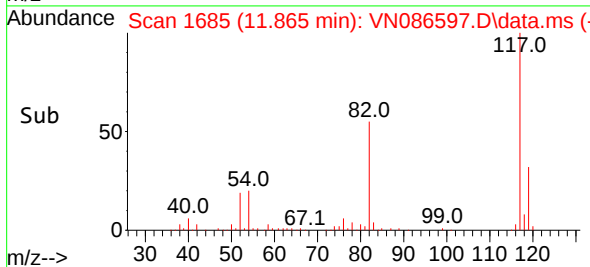
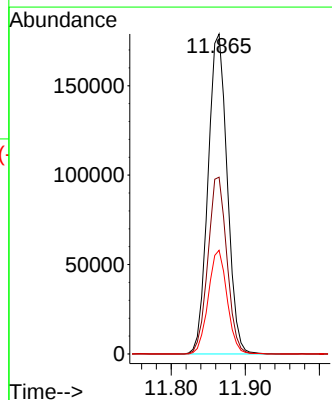
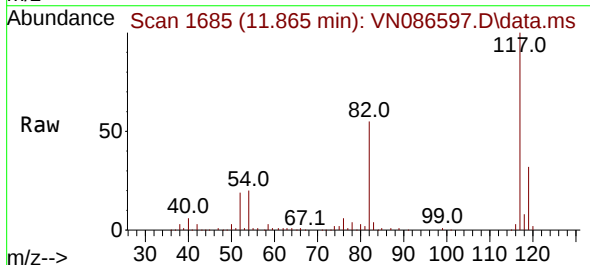
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#16

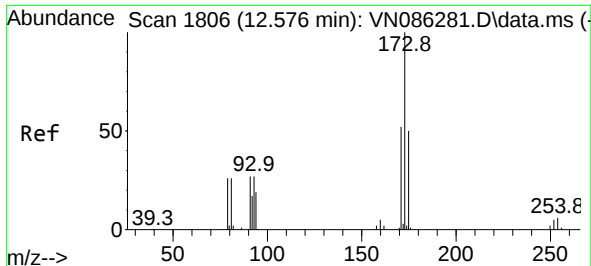
Tgt Ion: 95 Resp: 150408
Ion Ratio Lower Upper
95 100
174 74.2 0.0 133.4
176 70.1 0.0 129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086597.D
Acq: 13 May 2025 13:22

Tgt Ion: 117 Resp: 321243
Ion Ratio Lower Upper
117 100
82 55.2 44.7 67.1
119 32.4 26.4 39.6

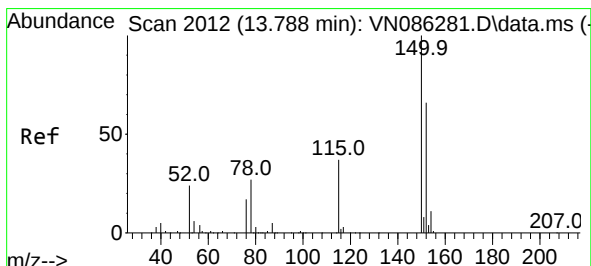
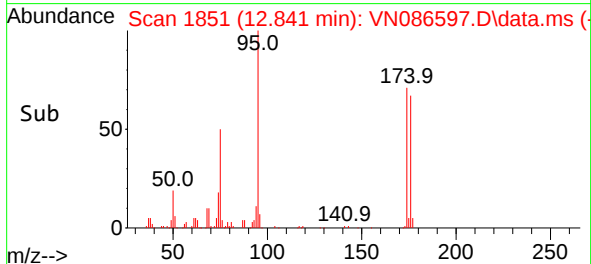
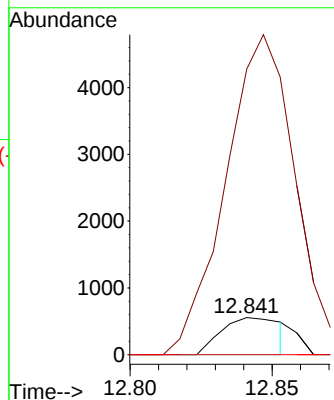
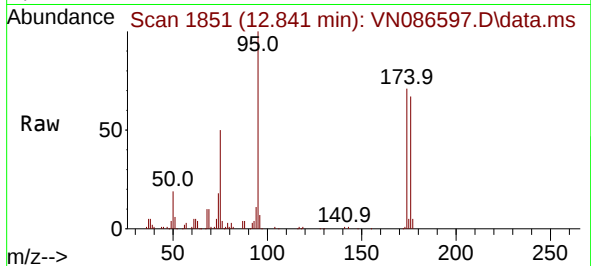




#71
Bromoform
Concen: 0.454 ug/l
RT: 12.841 min Scan# 1806
Delta R.T. 0.265 min
Lab File: VN086597.D
Acq: 13 May 2025 13:22

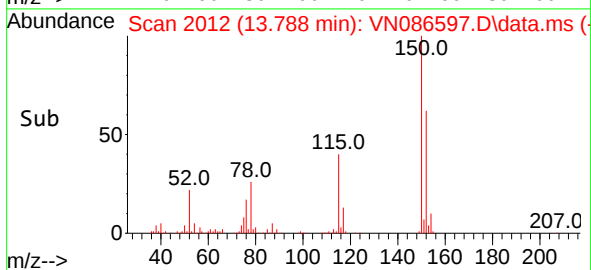
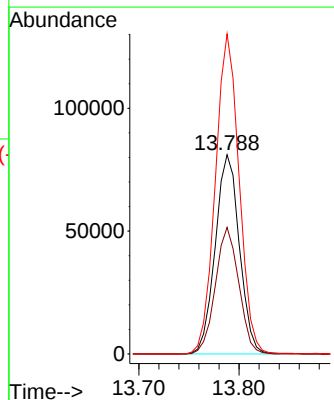
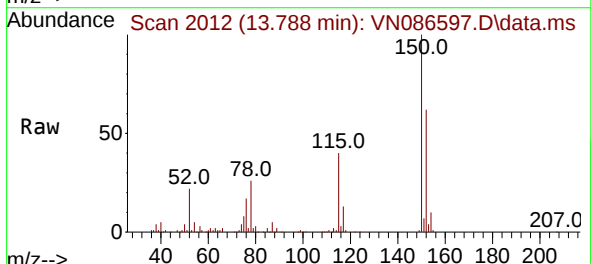
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#16

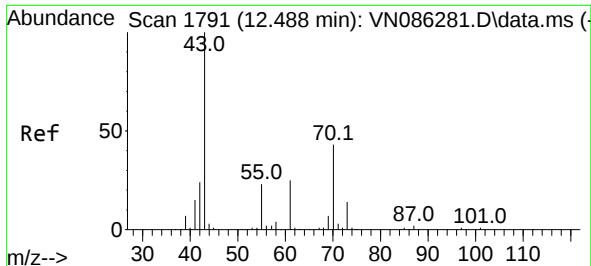
Tgt Ion:173 Resp: 808
Ion Ratio Lower Upper
173 100
175 826.6 24.6 73.6#
254 0.0 0.0 0.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VN086597.D
Acq: 13 May 2025 13:22

Tgt Ion:152 Resp: 135518
Ion Ratio Lower Upper
152 100
115 61.6 31.9 95.9
150 158.1 0.0 352.0

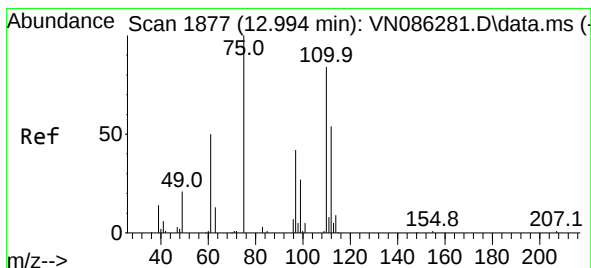
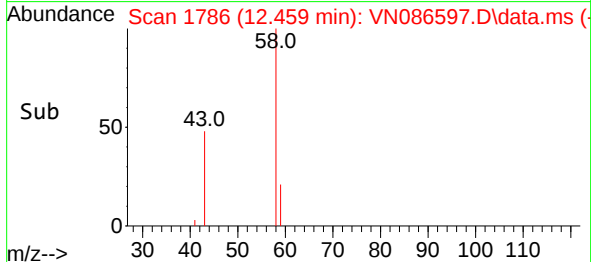
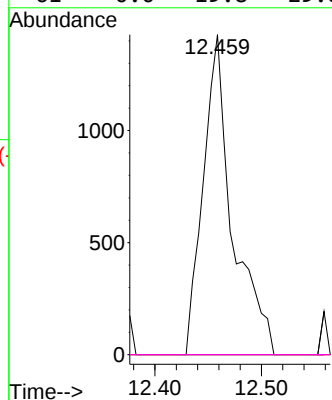
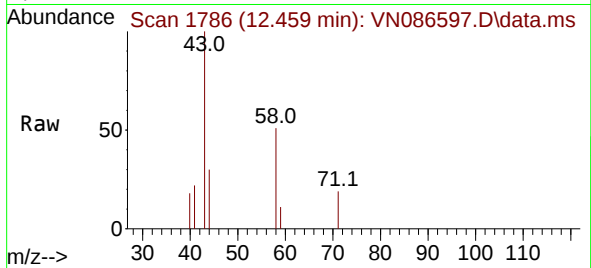




#74
N-amy1 acetate
Concen: 0.493 ug/l
RT: 12.459 min Scan# 1786
Delta R.T. -0.029 min
Lab File: VN086597.D
Acq: 13 May 2025 13:22

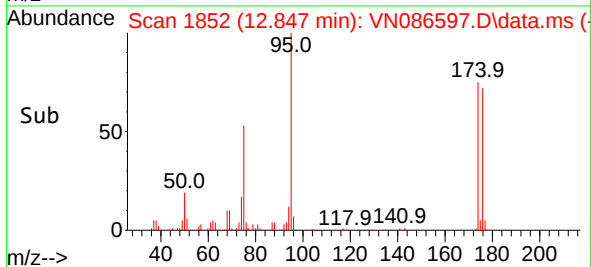
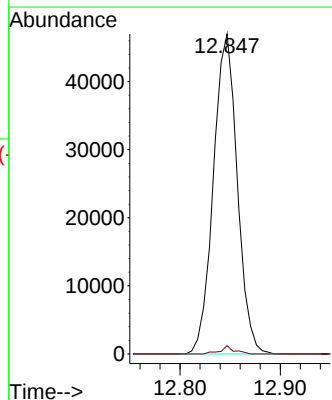
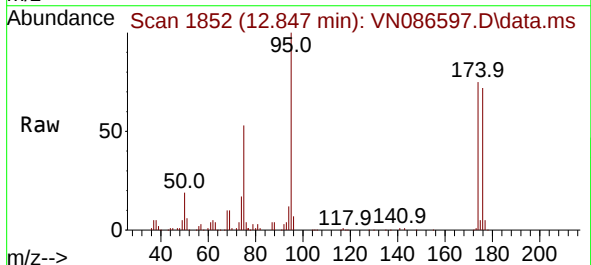
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#16

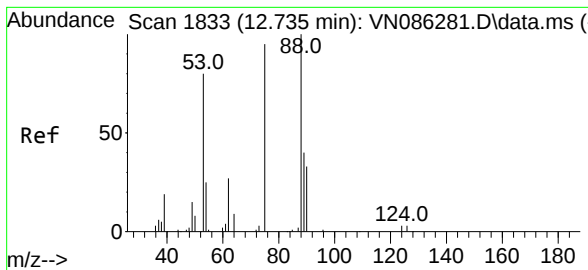
Tgt Ion: 43	Resp:	2720	
Ion	Ratio	Lower	Upper
43	100		
70	0.0	35.0	52.4#
55	0.0	19.0	28.4#
61	0.0	19.8	29.8#



#76
1,2,3-Trichloropropane
Concen: 24.308 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086597.D
Acq: 13 May 2025 13:22

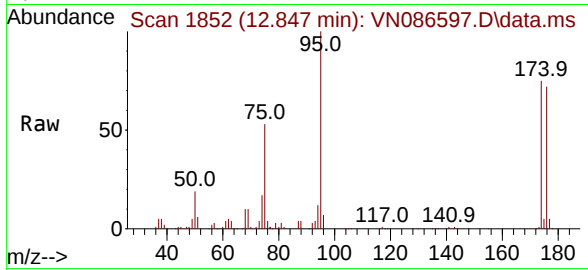
Tgt Ion: 75	Resp: 77738
Ion Ratio	Lower Upper
75 100	
77 1.5	98.8 296.4#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 58.379 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086597.D
 Acq: 13 May 2025 13:22

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167932ZHE#16



Tgt Ion: 75 Resp: 77738
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.2 118.8#
 89 0.0 35.7 53.5#

