

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050825\
 Data File : VN086547.D
 Acq On : 08 May 2025 15:49
 Operator : JC\MD
 Sample : PB167895ZHE#05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167895ZHE#05

Quant Time: May 09 01:53:40 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)

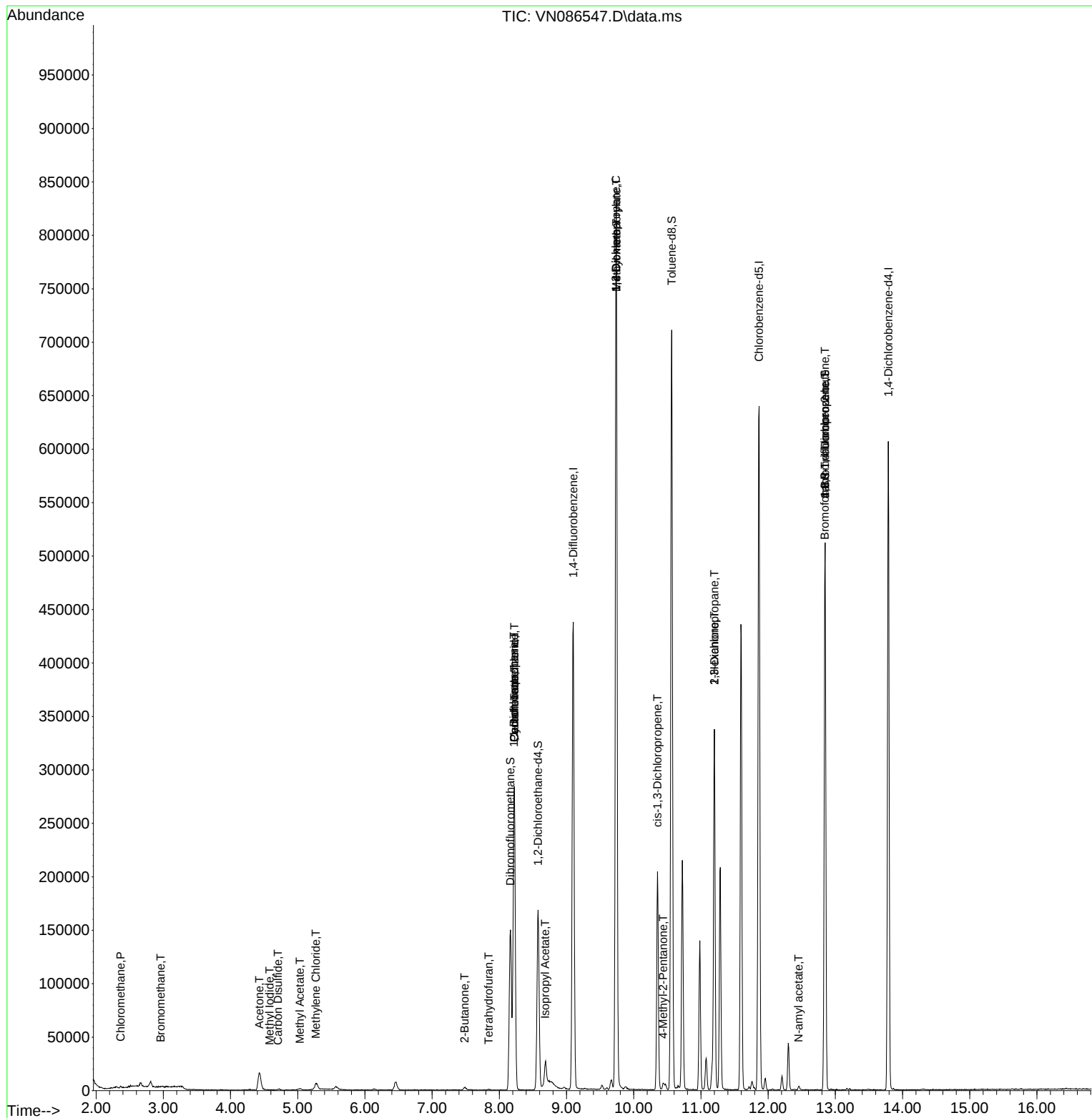
Internal Standards						
1) Pentafluorobenzene	8.224	168	216290	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	393667	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	383817	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	167550	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	142002	45.276	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	90.560%
35) Dibromofluoromethane	8.165	113	112872	61.778	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	123.560%
50) Toluene-d8	10.565	98	505188	51.736	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	103.480%
62) 4-Bromofluorobenzene	12.847	95	184129	51.698	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	103.400%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1123	0.301	ug/l	98
5) Bromomethane	2.959	94	353	0.221	ug/l #	57
10) Methyl Iodide	4.583	142	599	0.229	ug/l #	42
16) Acetone	4.430	43	33010	25.312	ug/l	92
17) Carbon Disulfide	4.706	76	1537	0.202	ug/l #	74
18) Methyl Acetate	5.030	43	3060	0.813	ug/l #	81
20) Methylene Chloride	5.271	84	5163	1.781	ug/l #	76
25) 2-Butanone	7.483	43	4872	2.496	ug/l	93
29) Tetrahydrofuran	7.841	42	556	0.426	ug/l #	32
31) Cyclohexane	8.224	56	4509	0.887	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	17402	4.769	ug/l #	49
38) Carbon Tetrachloride	8.224	117	21139	6.083	ug/l #	16
43) Isopropyl Acetate	8.683	43	34841	3.249	ug/l #	82
45) 1,2-Dichloropropane	9.736	63	1049	0.367	ug/l #	43
48) Methyl methacrylate	9.741	41	75603	22.408	ug/l #	42
49) 1,4-Dioxane	9.741	88	60	1.046	ug/l #	1
51) 4-Methyl-2-Pentanone	10.435	43	4041	1.027	ug/l	94
54) cis-1,3-Dichloropropene	10.353	75	39344	8.148	ug/l #	58
57) 1,3-Dichloropropane	11.200	76	3574	0.767	ug/l #	43
59) 2-Hexanone	11.200	43	62580	21.446	ug/l #	43
71) Bromoform	12.841	173	687	0.323	ug/l #	1
74) N-amyl acetate	12.453	43	3437	0.504	ug/l #	43
76) 1,2,3-Trichloropropane	12.847	75	92374	23.363	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	92374	56.108	ug/l #	10

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

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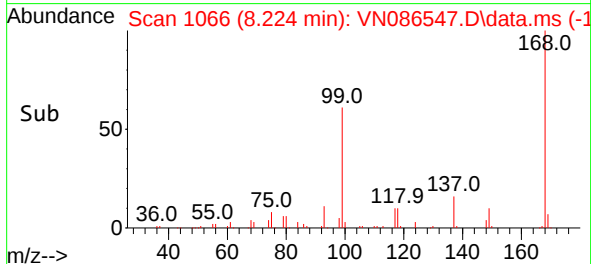
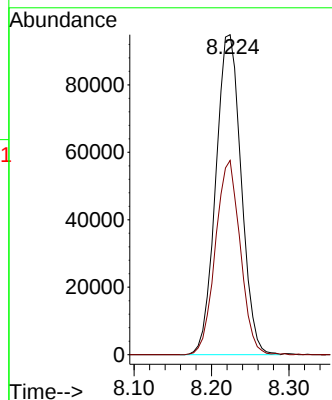
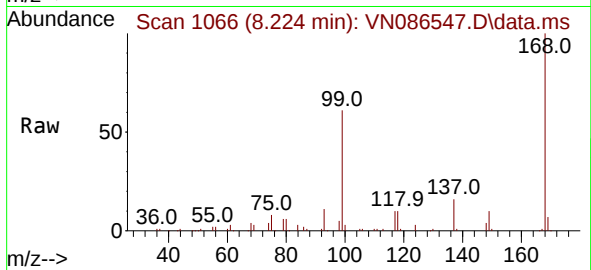




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086547.D
Acq: 08 May 2025 15:49

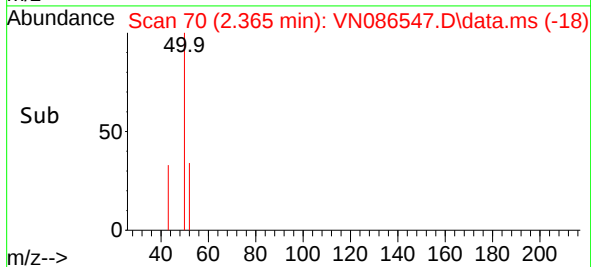
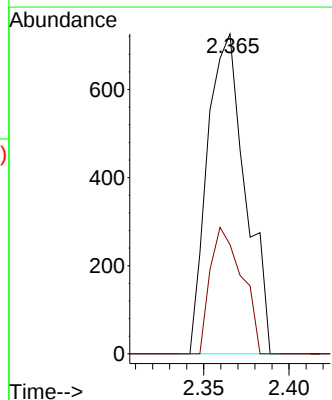
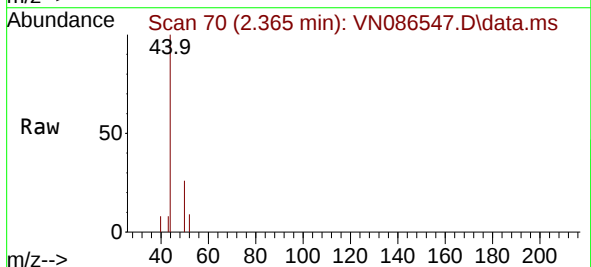
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#05

Tgt Ion:168 Resp: 216290
Ion Ratio Lower Upper
168 100
99 60.7 52.5 78.7



#3
Chloromethane
Concen: 0.301 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086547.D
Acq: 08 May 2025 15:49

Tgt Ion: 50 Resp: 1123
Ion Ratio Lower Upper
50 100
52 34.2 26.5 39.7

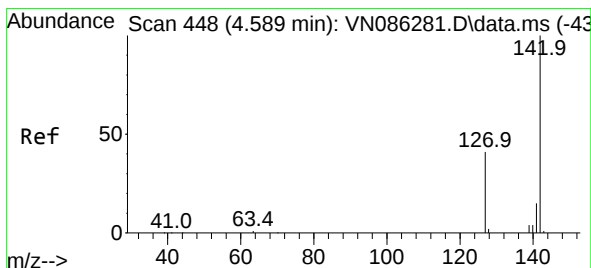
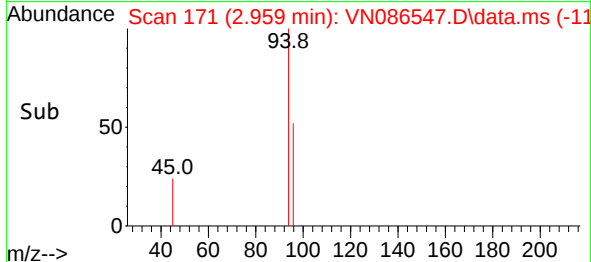
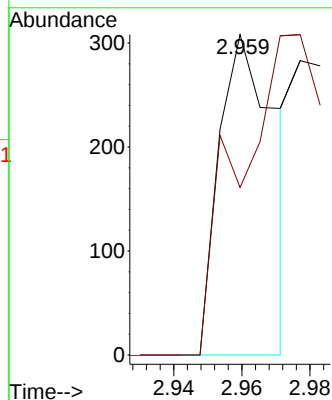
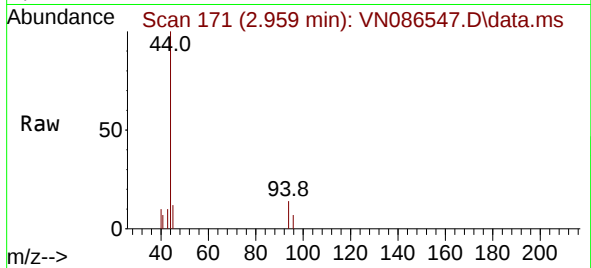




#5
Bromomethane
Concen: 0.221 ug/l
RT: 2.959 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086547.D
Acq: 08 May 2025 15:49

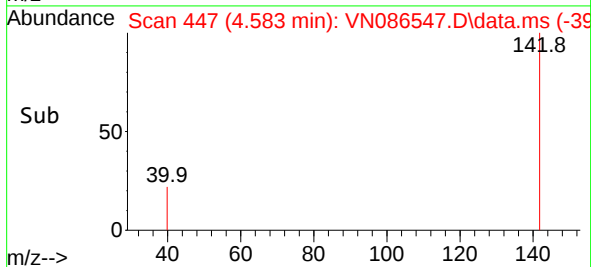
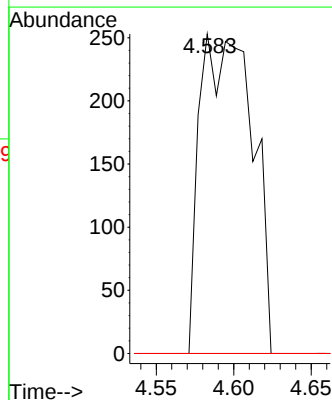
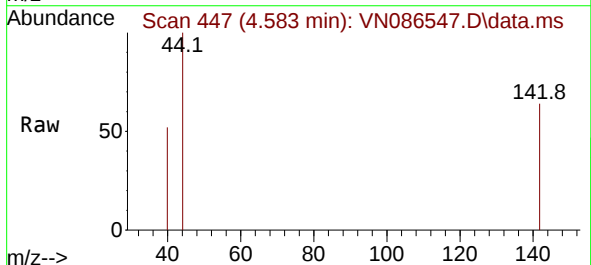
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#05

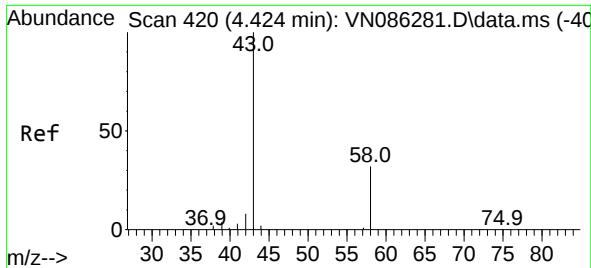
Tgt Ion: 94 Resp: 353
Ion Ratio Lower Upper
94 100
96 52.3 75.2 112.8#



#10
Methyl Iodide
Concen: 0.229 ug/l
RT: 4.583 min Scan# 447
Delta R.T. -0.006 min
Lab File: VN086547.D
Acq: 08 May 2025 15:49

Tgt Ion: 142 Resp: 599
Ion Ratio Lower Upper
142 100
127 0.0 32.7 49.1#
141 0.0 11.7 17.5#

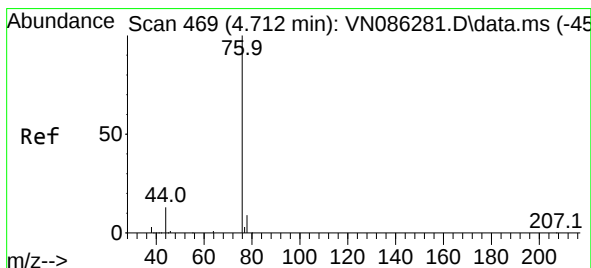
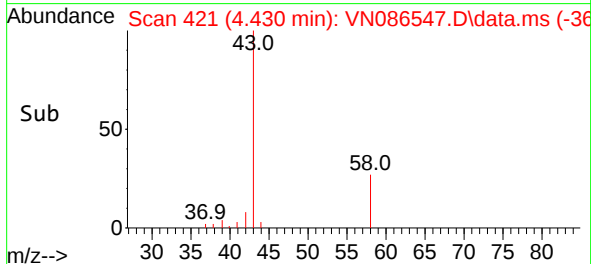
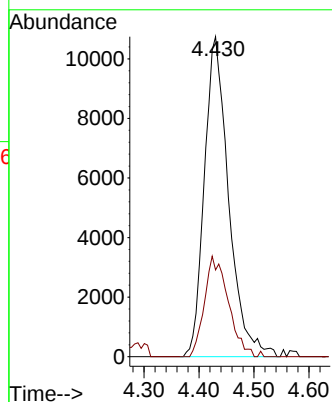
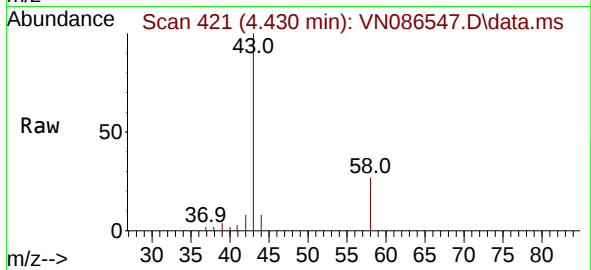




#16
Acetone
Concen: 25.312 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086547.D
Acq: 08 May 2025 15:49

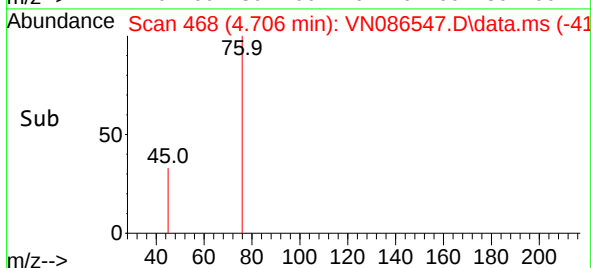
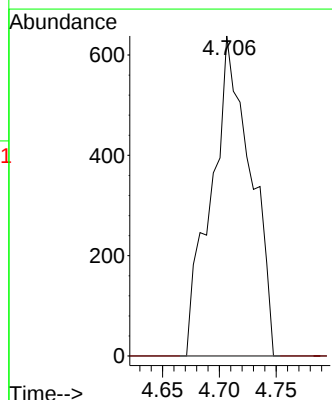
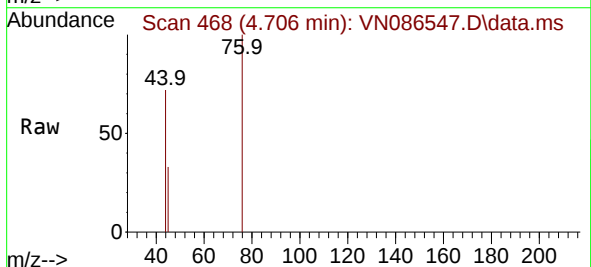
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#05

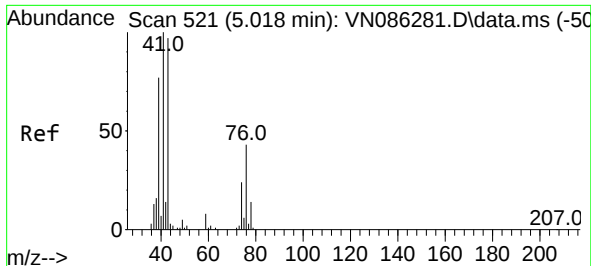
Tgt Ion: 43 Resp: 33010
Ion Ratio Lower Upper
43 100
58 27.1 25.3 37.9



#17
Carbon Disulfide
Concen: 0.202 ug/l
RT: 4.706 min Scan# 468
Delta R.T. -0.006 min
Lab File: VN086547.D
Acq: 08 May 2025 15:49

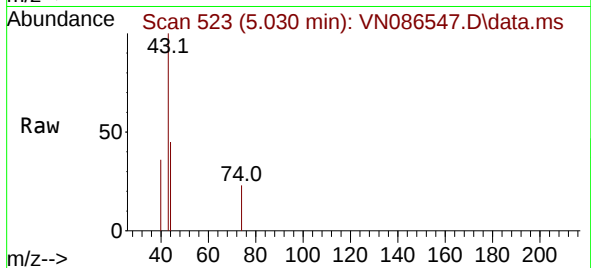
Tgt Ion: 76 Resp: 1537
Ion Ratio Lower Upper
76 100
78 0.0 7.6 11.4#



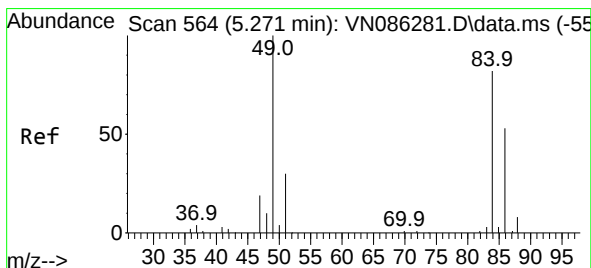
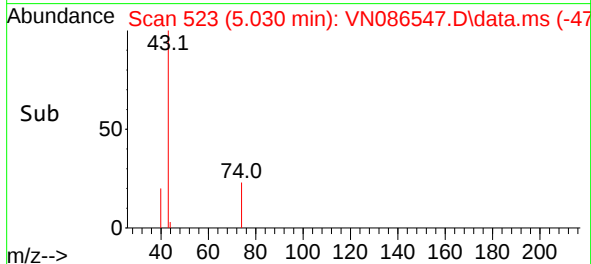
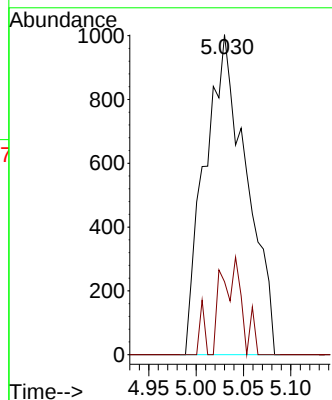


#18
Methyl Acetate
Concen: 0.813 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN086547.D
Acq: 08 May 2025 15:49

Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#05

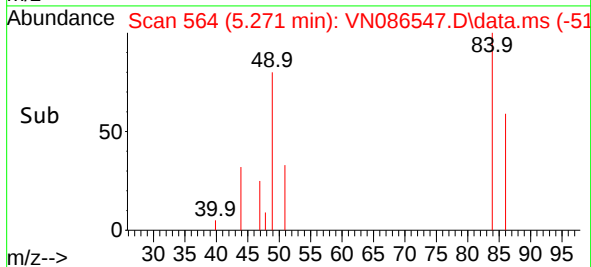
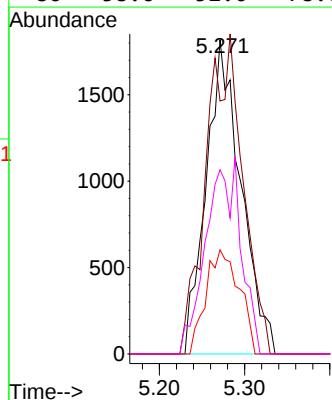
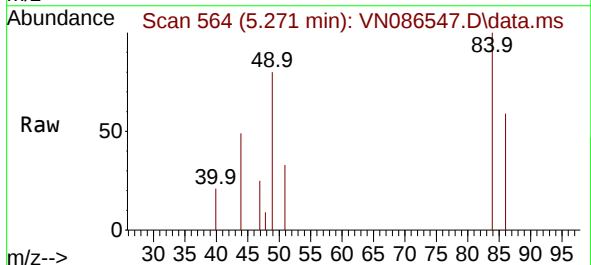


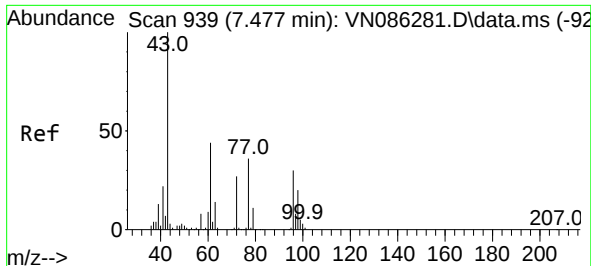
Tgt Ion: 43 Resp: 3060
Ion Ratio Lower Upper
43 100
74 15.0 19.8 29.6#



#20
Methylene Chloride
Concen: 1.781 ug/l
RT: 5.271 min Scan# 564
Delta R.T. 0.000 min
Lab File: VN086547.D
Acq: 08 May 2025 15:49

Tgt Ion: 84 Resp: 5163
Ion Ratio Lower Upper
84 100
49 80.5 98.2 147.2#
51 33.2 29.8 44.6
86 58.6 52.0 78.0

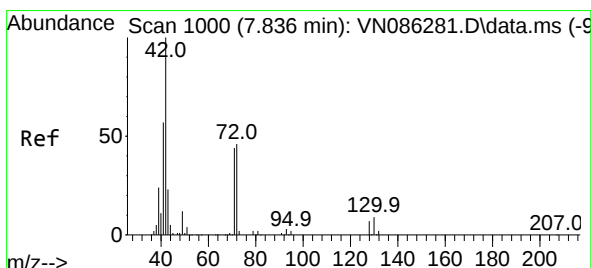
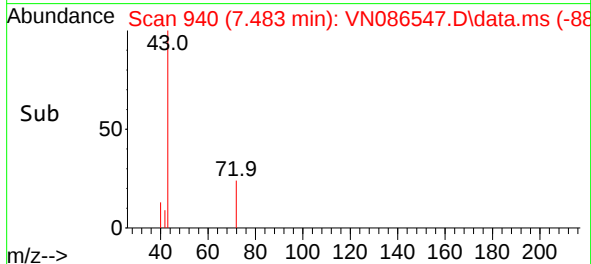
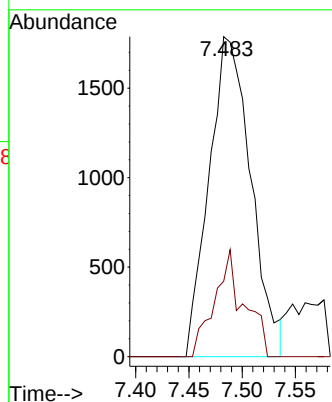
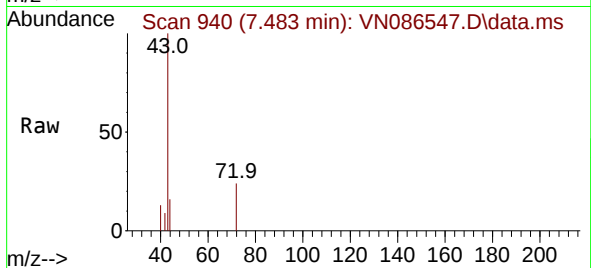




#25
2-Butanone
Concen: 2.496 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN086547.D
Acq: 08 May 2025 15:49

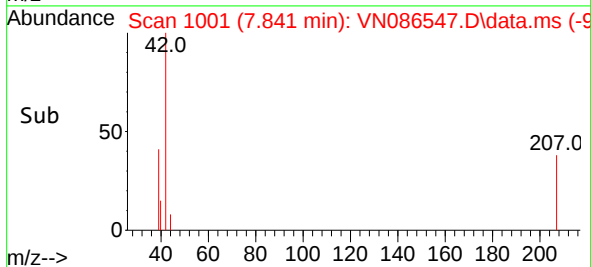
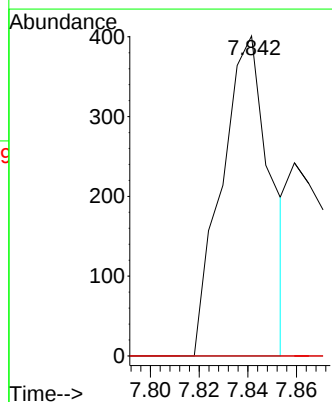
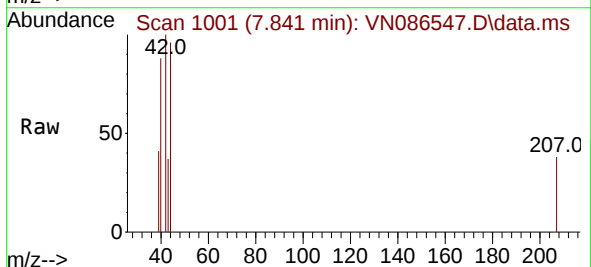
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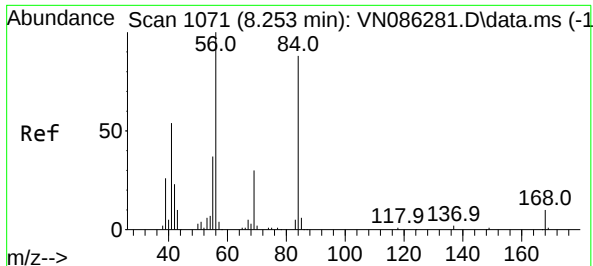
Tgt Ion: 43 Resp: 4872
Ion Ratio Lower Upper
43 100
72 23.6 21.7 32.5



#29
Tetrahydrofuran
Concen: 0.426 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VN086547.D
Acq: 08 May 2025 15:49

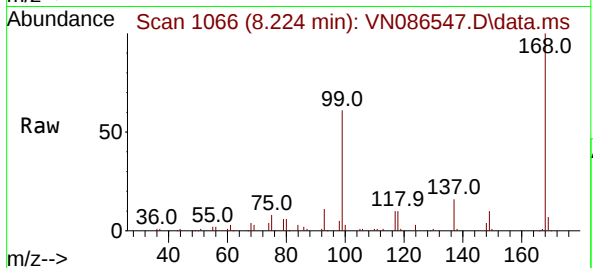
Tgt Ion: 42 Resp: 556
Ion Ratio Lower Upper
42 100
72 0.0 36.2 54.4#
71 0.0 34.0 51.0#



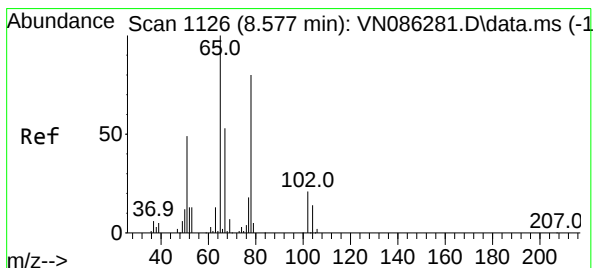
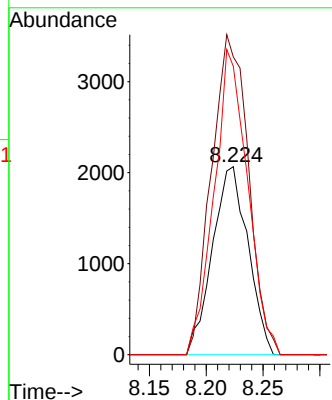
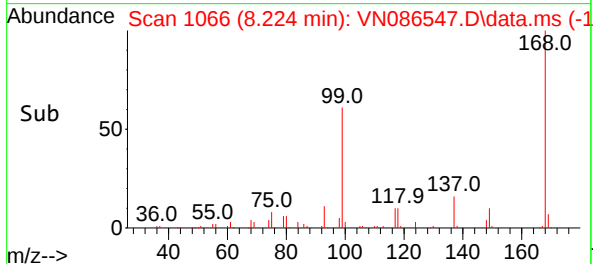


#31
Cyclohexane
Concen: 0.887 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.029 min
Lab File: VN086547.D
Acq: 08 May 2025 15:49

Instrument :
MSVOA_N
ClientSampleId :
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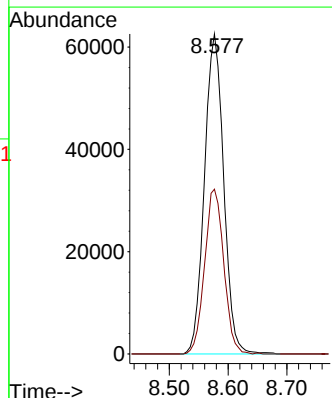
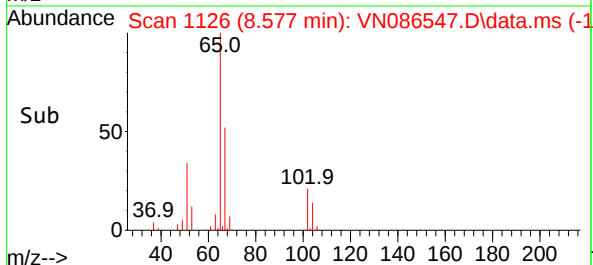
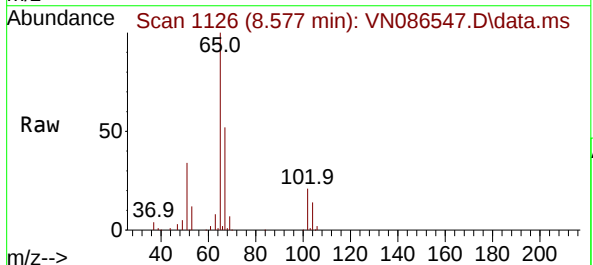


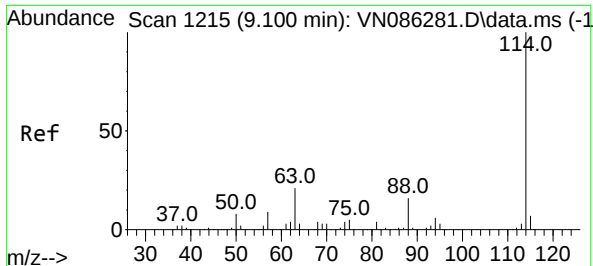
Tgt Ion: 56 Resp: 4509
Ion Ratio Lower Upper
56 100
69 158.4 24.2 36.2#
84 153.3 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 45.276 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN086547.D
Acq: 08 May 2025 15:49

Tgt Ion: 65 Resp: 142002
Ion Ratio Lower Upper
65 100
67 51.3 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN086547.D

Acq: 08 May 2025 15:49

Instrument :

MSVOA_N

ClientSampleId :

PB167895ZHE#05

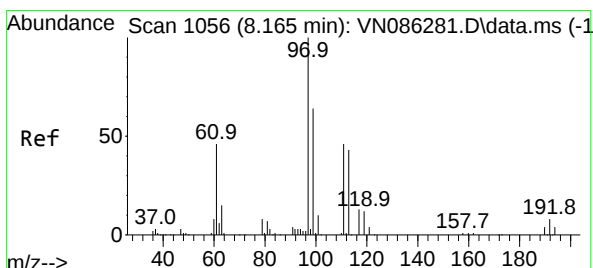
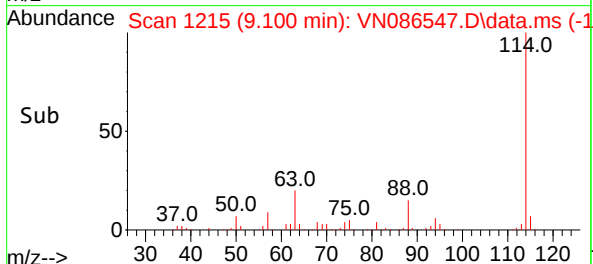
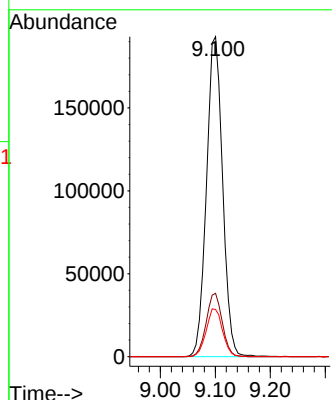
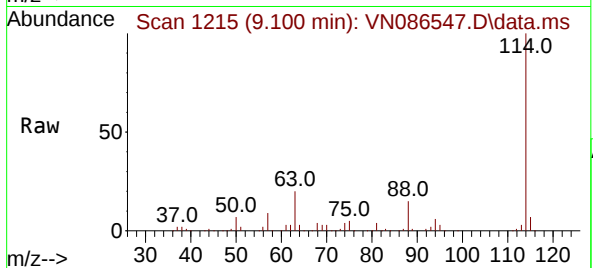
Tgt Ion:114 Resp: 393667

Ion Ratio Lower Upper

114 100

63 19.8 0.0 42.6

88 14.7 0.0 31.8



#35

Dibromofluoromethane

Concen: 61.778 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN086547.D

Acq: 08 May 2025 15:49

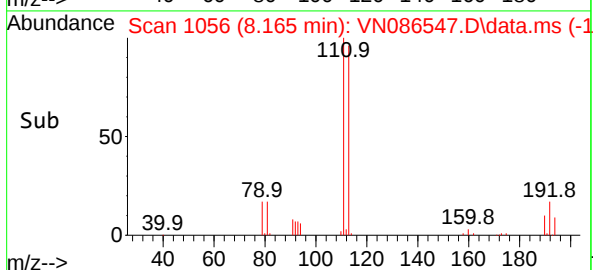
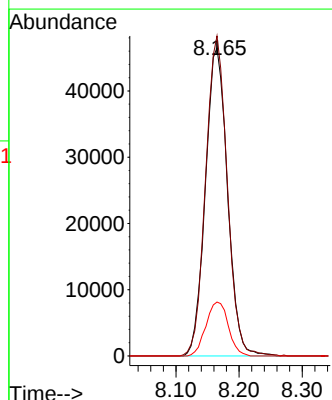
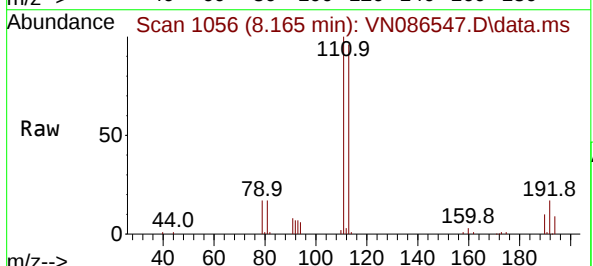
Tgt Ion:113 Resp: 112872

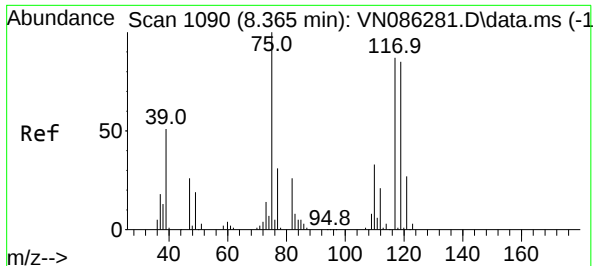
Ion Ratio Lower Upper

113 100

111 101.9 83.4 125.0

192 17.7 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.769 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086547.D

Acq: 08 May 2025 15:49

Instrument :

MSVOA_N

ClientSampleId :

PB167895ZHE#05

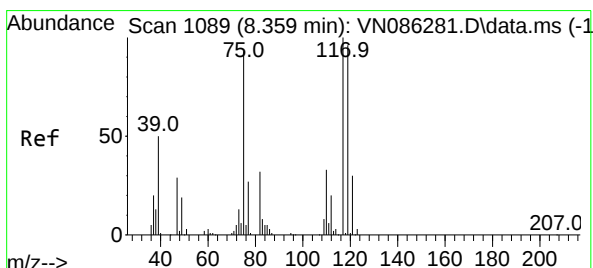
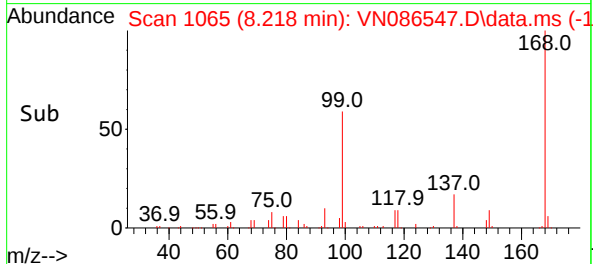
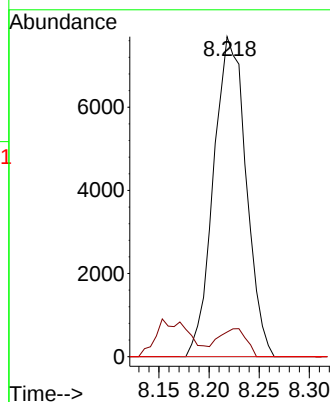
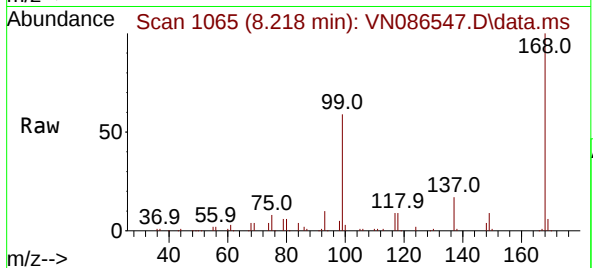
Tgt Ion: 75 Resp: 17402

Ion Ratio Lower Upper

75 100

110 7.3 16.8 50.4#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 6.083 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN086547.D

Acq: 08 May 2025 15:49

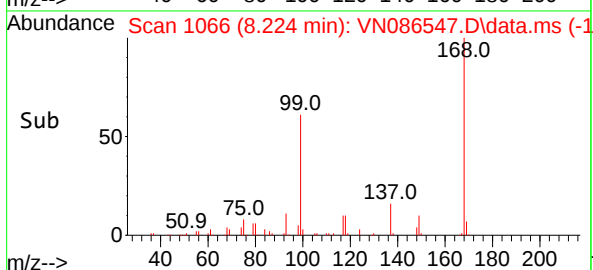
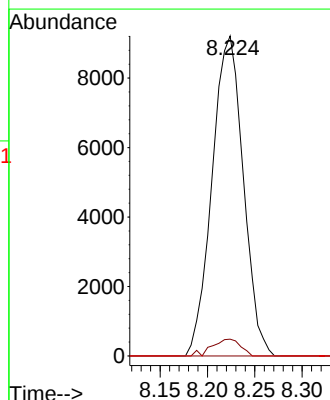
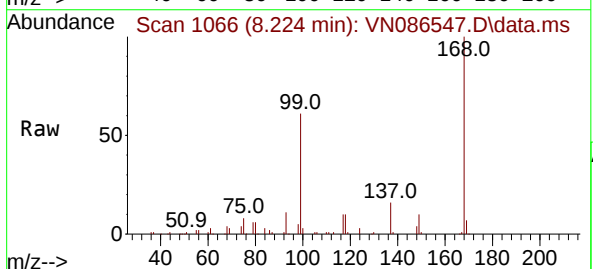
Tgt Ion: 117 Resp: 21139

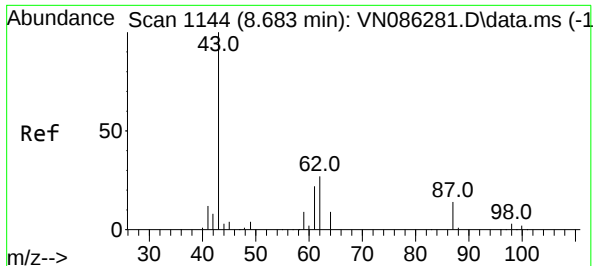
Ion Ratio Lower Upper

117 100

119 5.3 76.8 115.2#

121 0.0 23.8 35.8#





#43

Isopropyl Acetate

Concen: 3.249 ug/l

RT: 8.683 min Scan# 1144

Delta R.T. -0.000 min

Lab File: VN086547.D

Acq: 08 May 2025 15:49

Instrument :

MSVOA_N

ClientSampleId :

PB167895ZHE#05

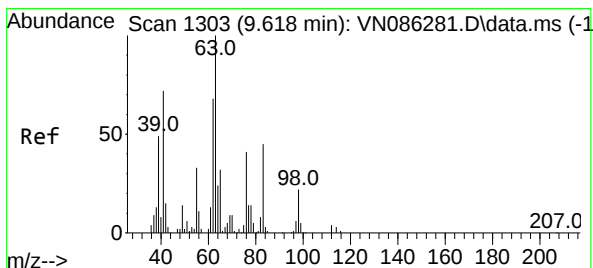
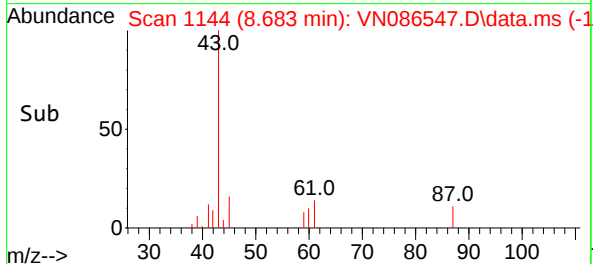
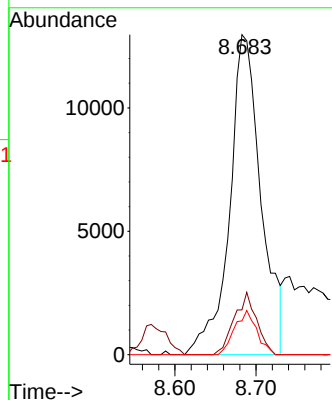
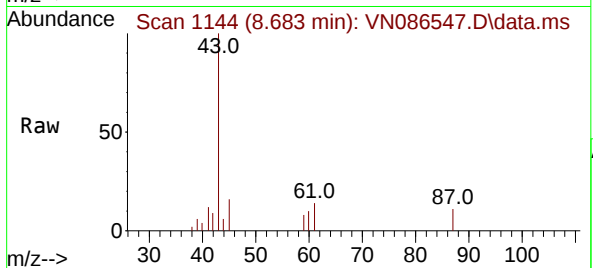
Tgt Ion: 43 Resp: 34841

Ion Ratio Lower Upper

43 100

61 13.9 20.5 30.7#

87 9.7 10.5 15.7#



#45

1,2-Dichloropropane

Concen: 0.367 ug/l

RT: 9.736 min Scan# 1323

Delta R.T. 0.118 min

Lab File: VN086547.D

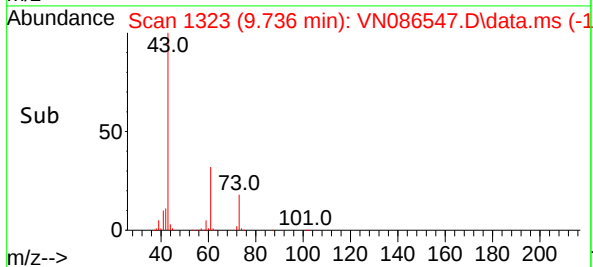
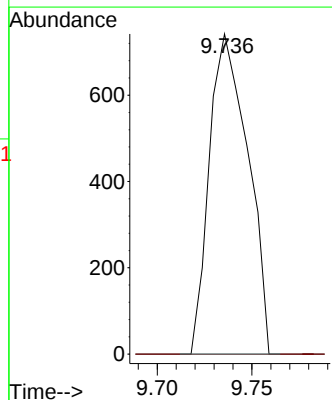
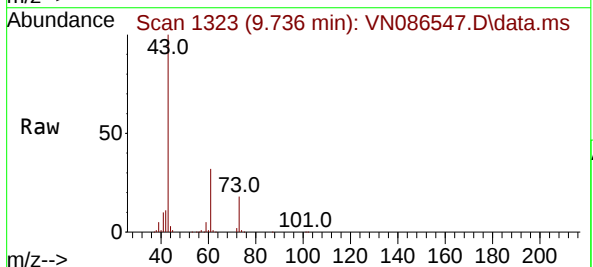
Acq: 08 May 2025 15:49

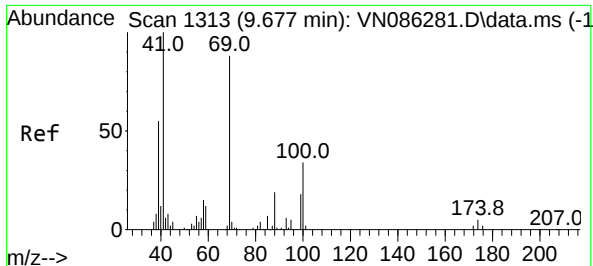
Tgt Ion: 63 Resp: 1049

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#





#48

Methyl methacrylate

Concen: 22.408 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.065 min

Lab File: VN086547.D

Acq: 08 May 2025 15:49

Instrument :

MSVOA_N

ClientSampleId :

PB167895ZHE#05

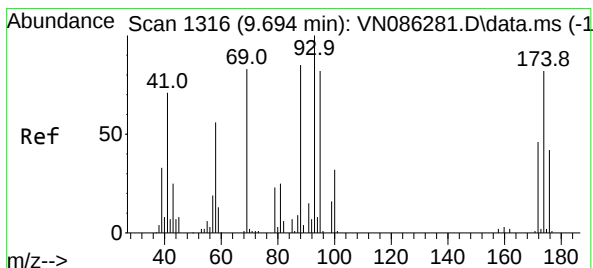
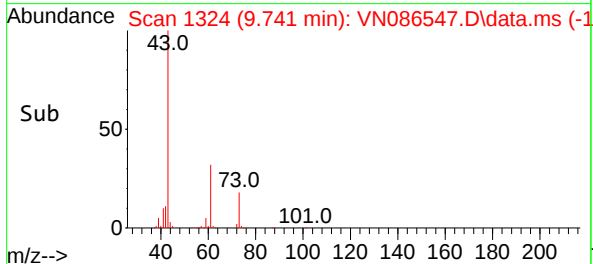
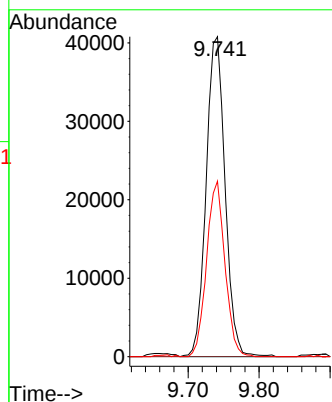
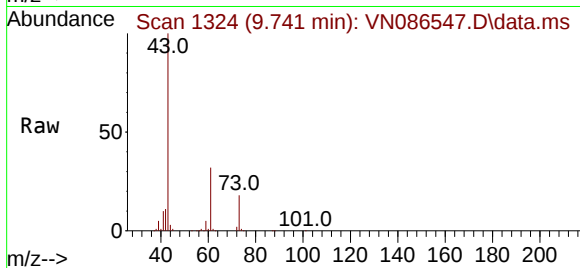
Tgt Ion: 41 Resp: 75603

Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 53.2 45.2 67.8



#49

1,4-Dioxane

Concen: 1.046 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.047 min

Lab File: VN086547.D

Acq: 08 May 2025 15:49

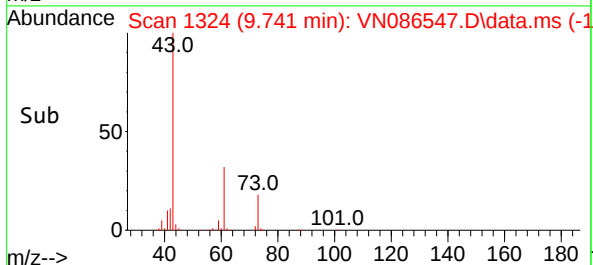
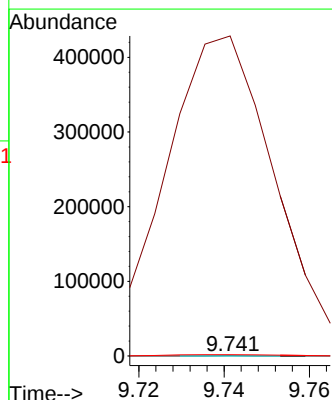
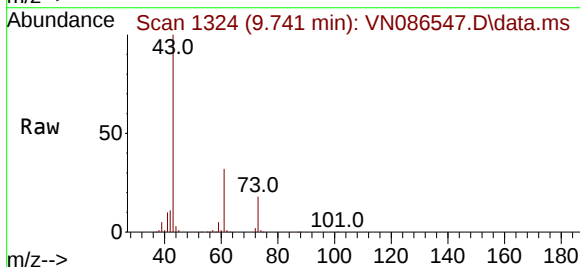
Tgt Ion: 88 Resp: 60

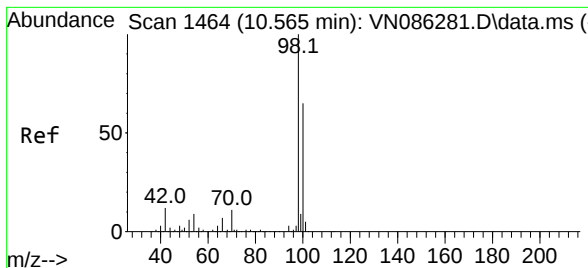
Ion Ratio Lower Upper

88 100

43 1313033.3 23.8 35.8#

58 5571.7 57.4 86.2#

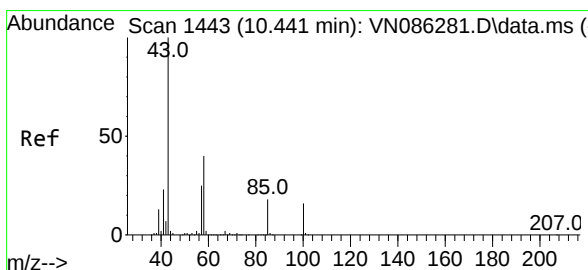
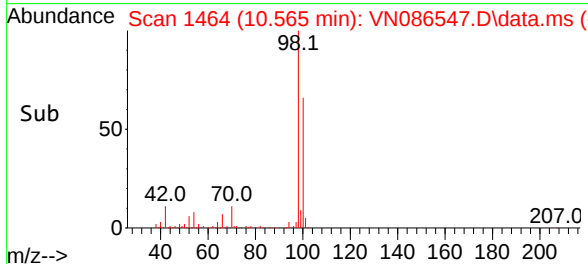
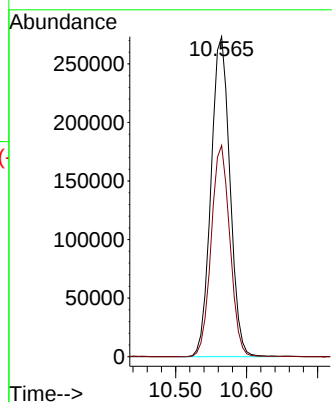
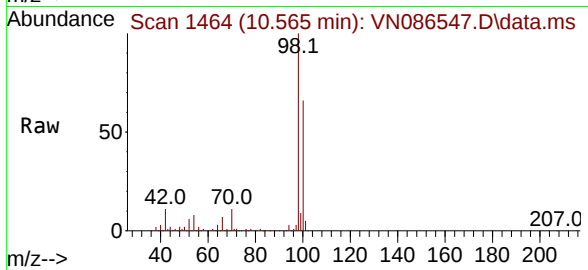




#50
Toluene-d8
Concen: 51.736 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086547.D
Acq: 08 May 2025 15:49

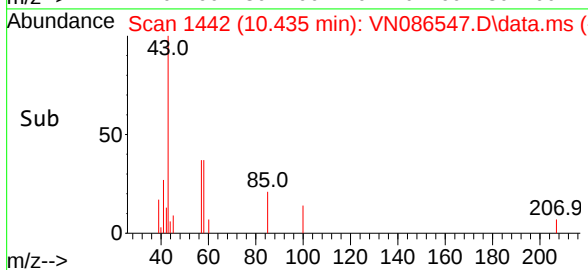
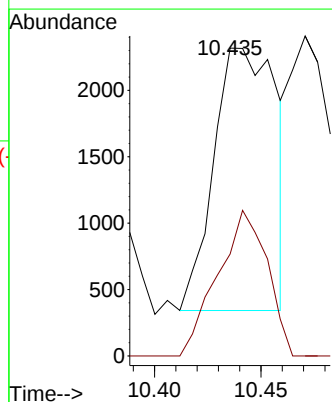
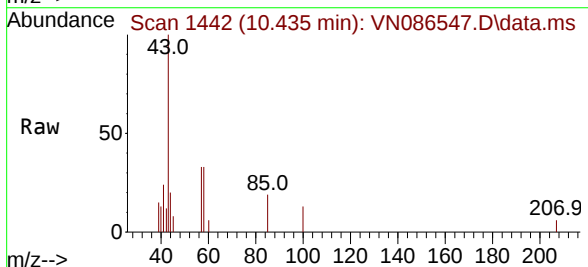
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#05

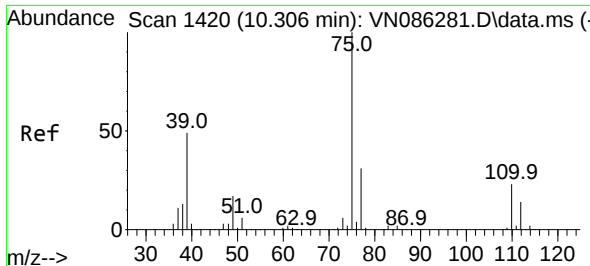
Tgt Ion: 98 Resp: 505188
Ion Ratio Lower Upper
98 100
100 65.1 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 1.027 ug/l
RT: 10.435 min Scan# 1442
Delta R.T. -0.006 min
Lab File: VN086547.D
Acq: 08 May 2025 15:49

Tgt Ion: 43 Resp: 4041
Ion Ratio Lower Upper
43 100
58 43.9 32.2 48.4

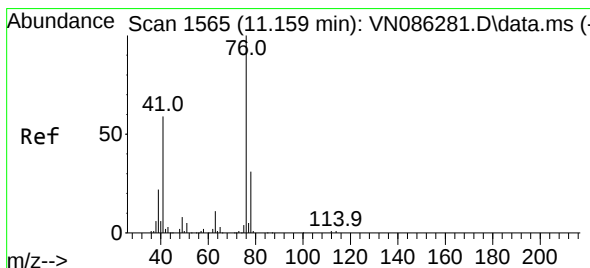
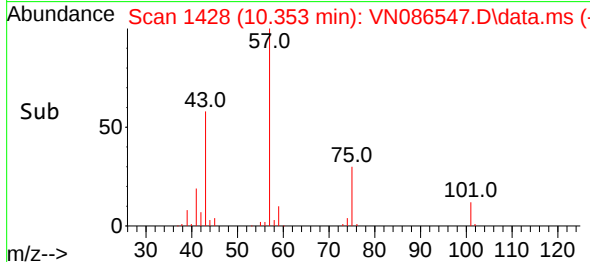
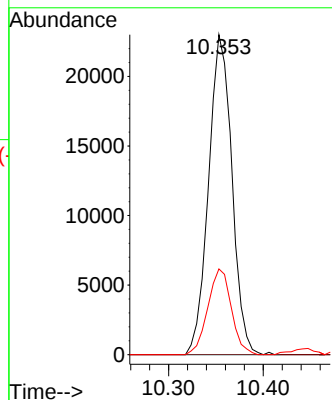
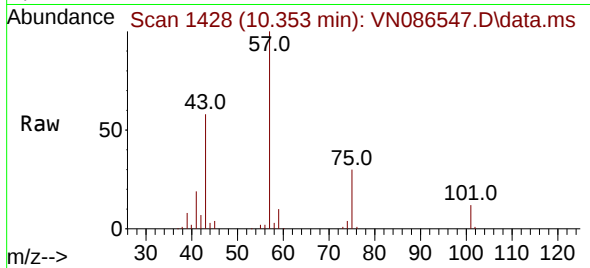




#54
 cis-1,3-Dichloropropene
 Concen: 8.148 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN086547.D
 Acq: 08 May 2025 15:49

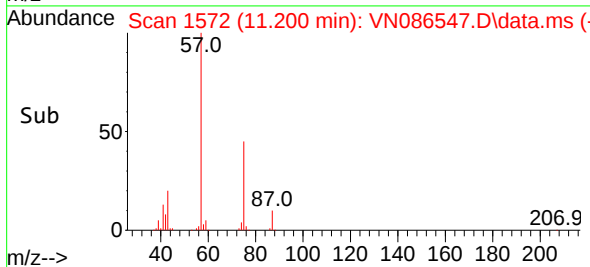
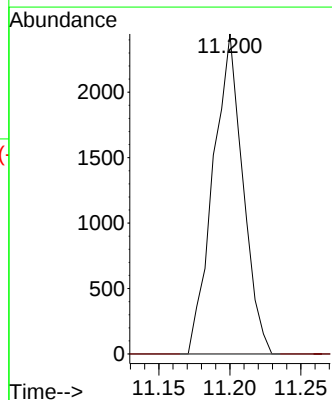
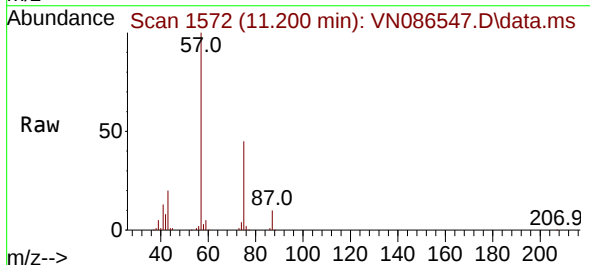
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167895ZHE#05

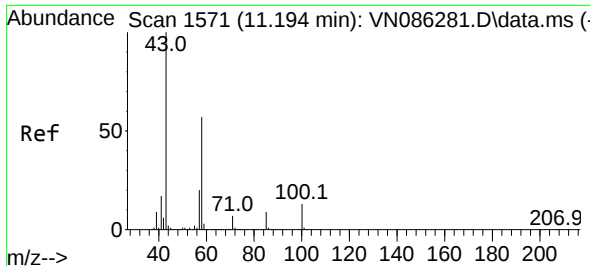
Tgt Ion: 75 Resp: 39344
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 26.8 39.3 58.9#



#57
 1,3-Dichloropropane
 Concen: 0.767 ug/l
 RT: 11.200 min Scan# 1572
 Delta R.T. 0.041 min
 Lab File: VN086547.D
 Acq: 08 May 2025 15:49

Tgt Ion: 76 Resp: 3574
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

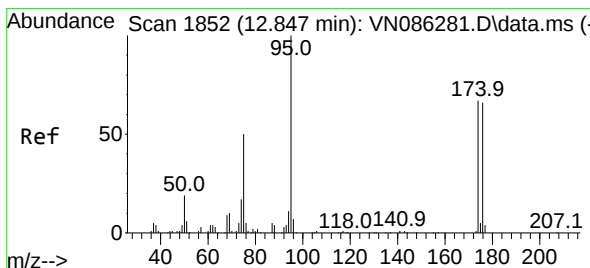
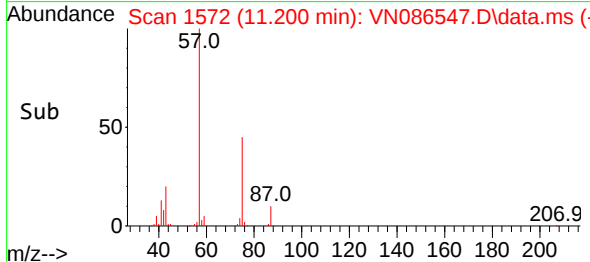
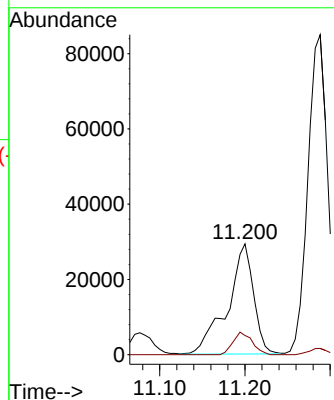
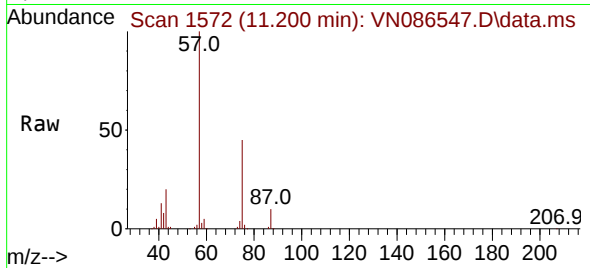




#59
2-Hexanone
Concen: 21.446 ug/l
RT: 11.200 min Scan# 1157
Delta R.T. 0.006 min
Lab File: VN086547.D
Acq: 08 May 2025 15:49

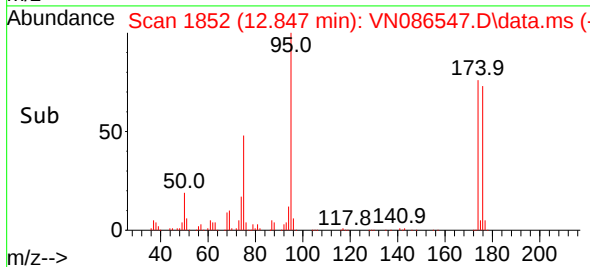
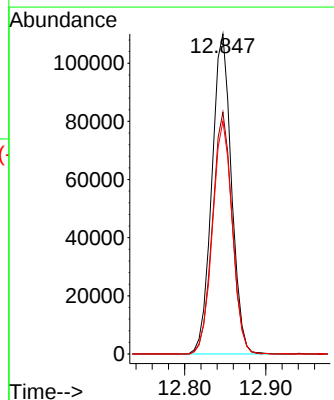
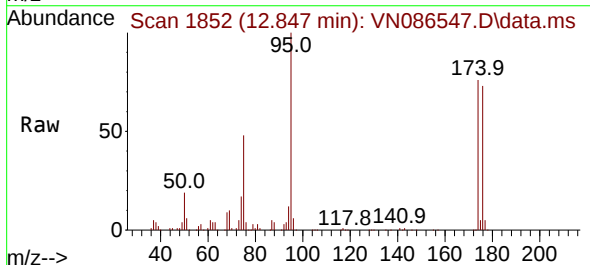
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#05

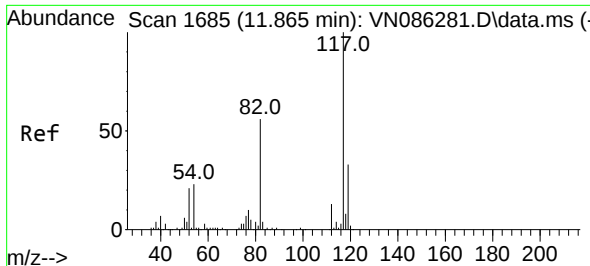
Tgt Ion: 43 Resp: 62580
Ion Ratio Lower Upper
43 100
58 15.0 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 51.698 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086547.D
Acq: 08 May 2025 15:49

Tgt Ion: 95 Resp: 184129
Ion Ratio Lower Upper
95 100
174 75.9 0.0 133.4
176 73.6 0.0 129.2

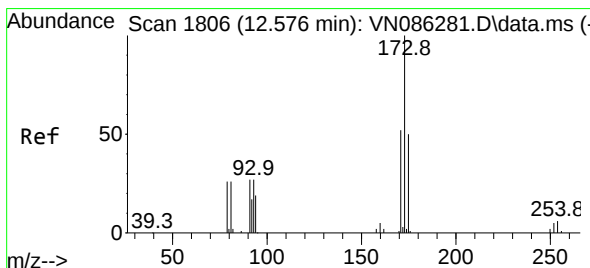
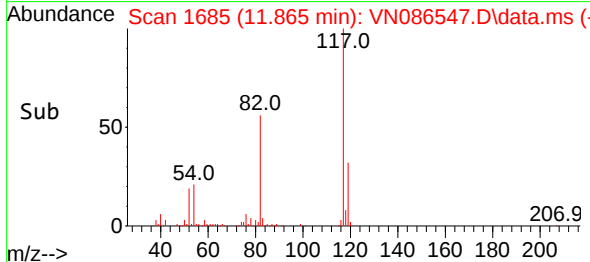
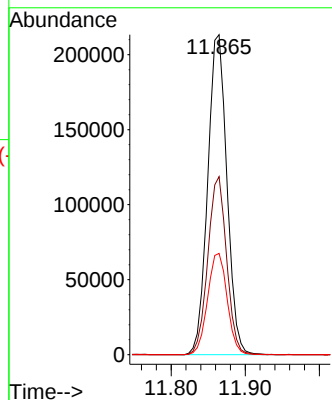
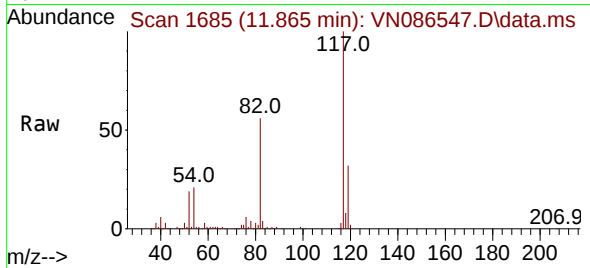




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1170
Delta R.T. 0.000 min
Lab File: VN086547.D
Acq: 08 May 2025 15:49

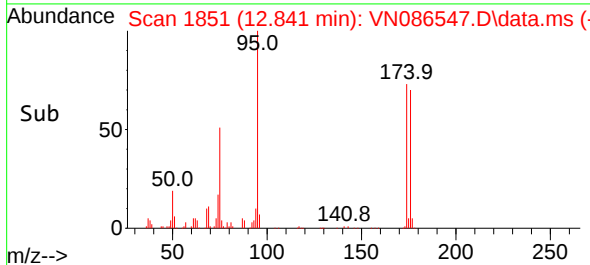
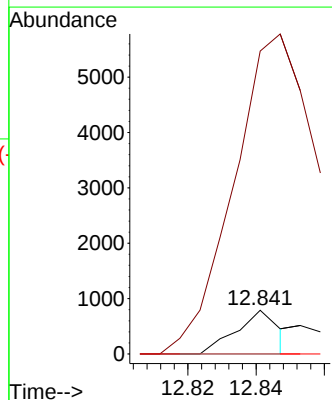
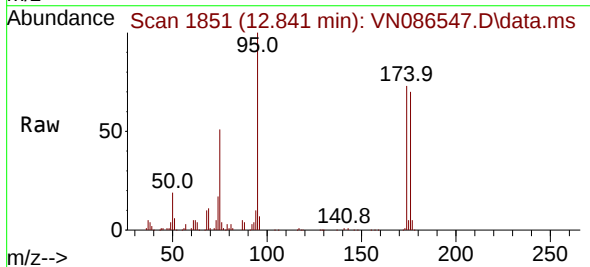
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#05

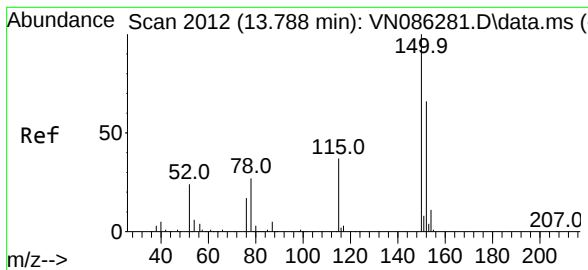
Tgt Ion:117 Resp: 383817
Ion Ratio Lower Upper
117 100
82 55.6 44.7 67.1
119 31.6 26.4 39.6



#71
Bromoform
Concen: 0.323 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. 0.265 min
Lab File: VN086547.D
Acq: 08 May 2025 15:49

Tgt Ion:173 Resp: 687
Ion Ratio Lower Upper
173 100
175 1166.1 24.6 73.6#
254 0.0 0.0 0.0

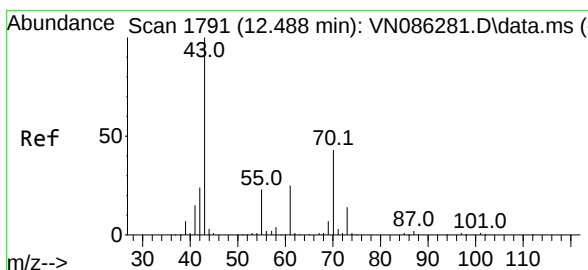
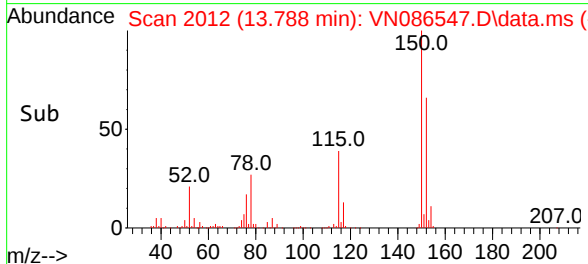
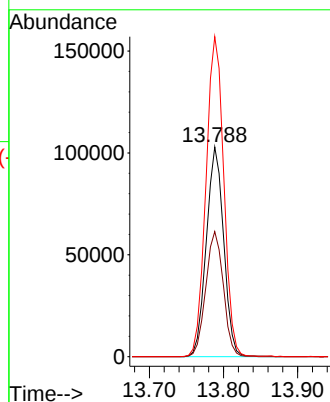
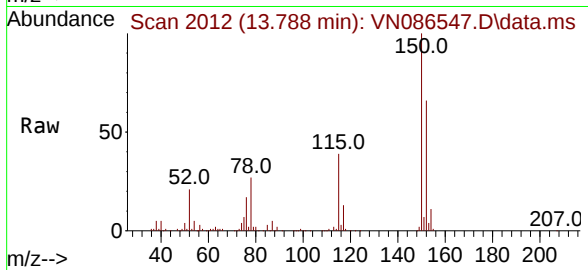




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN086547.D
Acq: 08 May 2025 15:49

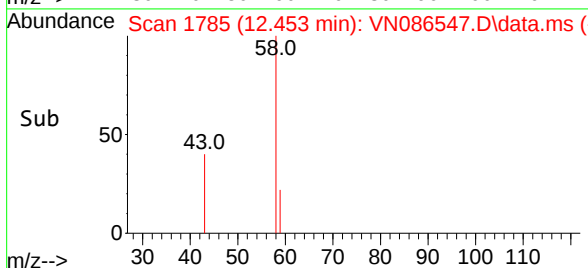
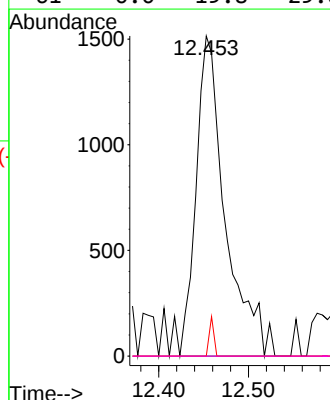
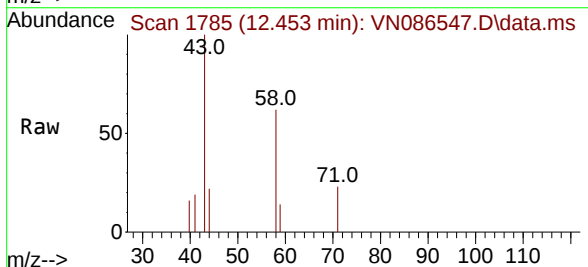
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#05

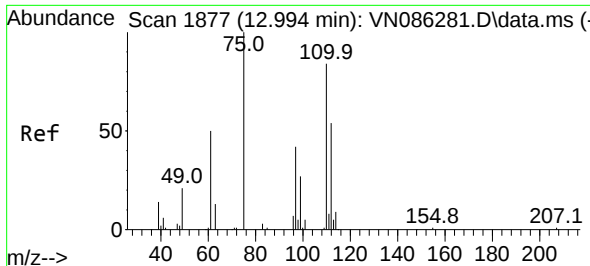
Tgt Ion:152 Resp: 167550
Ion Ratio Lower Upper
152 100
115 60.4 31.9 95.9
150 156.2 0.0 352.0



#74
N-ethyl acetate
Concen: 0.504 ug/l
RT: 12.453 min Scan# 1785
Delta R.T. -0.035 min
Lab File: VN086547.D
Acq: 08 May 2025 15:49

Tgt Ion: 43 Resp: 3437
Ion Ratio Lower Upper
43 100
70 0.0 35.0 52.4#
55 1.9 19.0 28.4#
61 0.0 19.8 29.8#

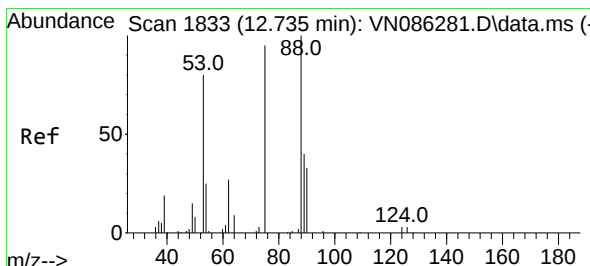
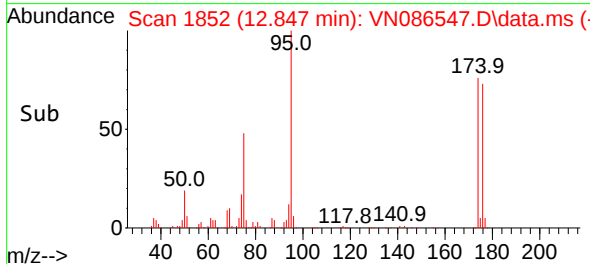
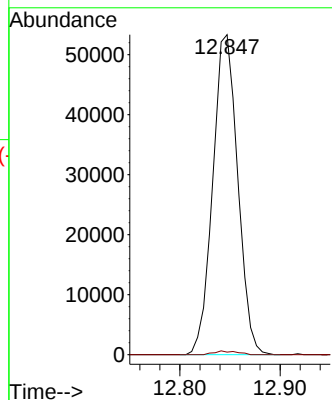
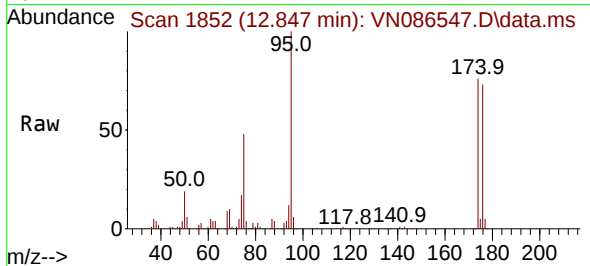




#76
1,2,3-Trichloropropane
Concen: 23.363 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086547.D
Acq: 08 May 2025 15:49

Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#05

Tgt Ion: 75 Resp: 92374
Ion Ratio Lower Upper
75 100
77 1.1 98.8 296.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 56.108 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086547.D
Acq: 08 May 2025 15:49

Tgt Ion: 75 Resp: 92374
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#

