

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN050825\
 Data File : VN086545.D
 Acq On : 08 May 2025 15:00
 Operator : JC\MD
 Sample : PB167895ZHE#03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167895ZHE#03

Quant Time: May 09 01:52:39 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)

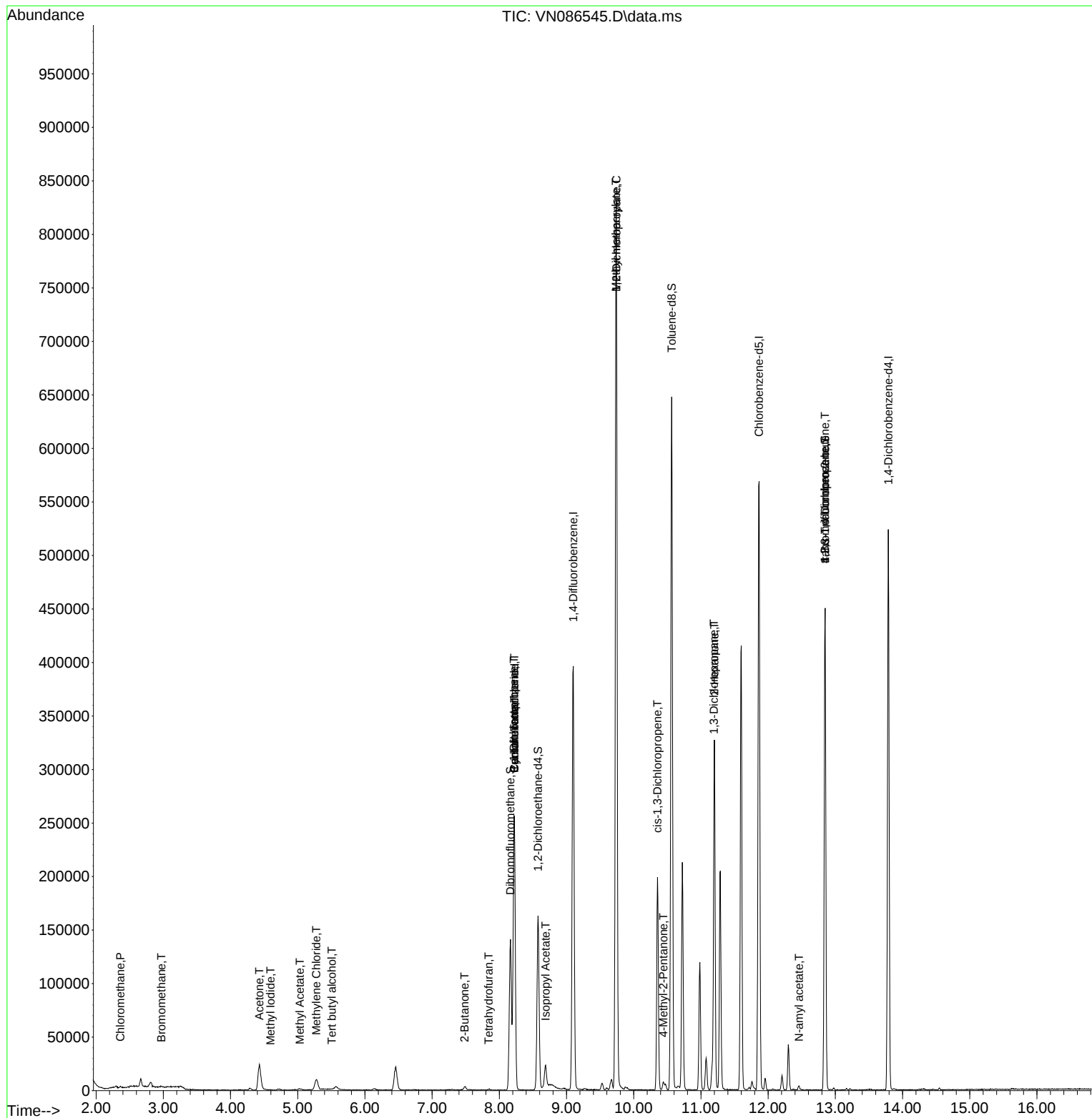
Internal Standards						
1) Pentafluorobenzene	8.224	168	196959	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	359718	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	343781	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	143873	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	133393	46.705	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	93.400%
35) Dibromofluoromethane	8.165	113	102703	61.517	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	123.040%
50) Toluene-d8	10.565	98	451209	50.569	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	101.140%
62) 4-Bromofluorobenzene	12.847	95	162482	49.926	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	99.860%
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	1253	0.369	ug/l	94
5) Bromomethane	2.971	94	627	0.430	ug/l	89
10) Methyl Iodide	4.595	142	651	0.273	ug/l #	42
11) Tert butyl alcohol	5.506	59	256	0.491	ug/l #	72
13) Acrolein	4.171	56	53	Below Cal	#	13
16) Acetone	4.430	43	46074	41.909	ug/l	90
18) Methyl Acetate	5.030	43	2921	0.852	ug/l #	87
20) Methylene Chloride	5.277	84	8136	3.081	ug/l	91
25) 2-Butanone	7.483	43	5521	3.106	ug/l #	80
29) Tetrahydrofuran	7.841	42	432	0.363	ug/l #	73
31) Cyclohexane	8.224	56	4105	0.887	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	15329	4.597	ug/l #	50
38) Carbon Tetrachloride	8.224	117	19229	6.055	ug/l #	15
43) Isopropyl Acetate	8.688	43	30339	3.007	ug/l #	86
45) 1,2-Dichloropropane	9.741	63	1154	0.441	ug/l #	43
48) Methyl methacrylate	9.735	41	75919	24.626	ug/l #	42
51) 4-Methyl-2-Pentanone	10.441	43	5575	1.551	ug/l	88
54) cis-1,3-Dichloropropene	10.353	75	37822	8.572	ug/l #	60
57) 1,3-Dichloropropane	11.194	76	3592	0.844	ug/l #	43
59) 2-Hexanone	11.200	43	60985	22.871	ug/l #	44
74) N-amyl acetate	12.459	43	3416	0.583	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	80932	23.837	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	80932	57.248	ug/l #	10

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

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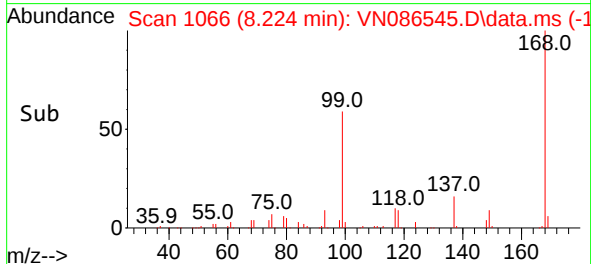
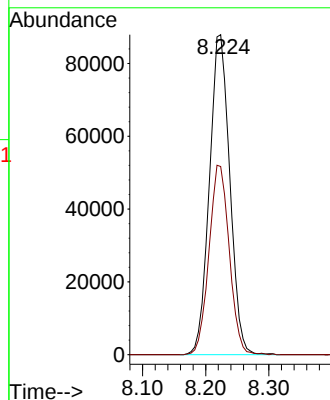
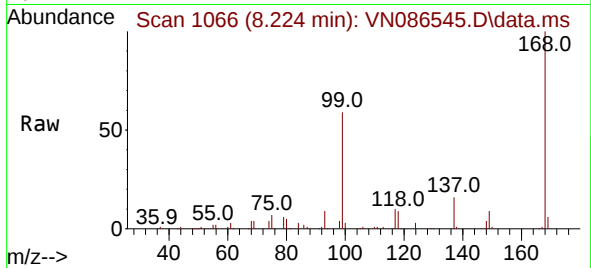




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086545.D
Acq: 08 May 2025 15:00

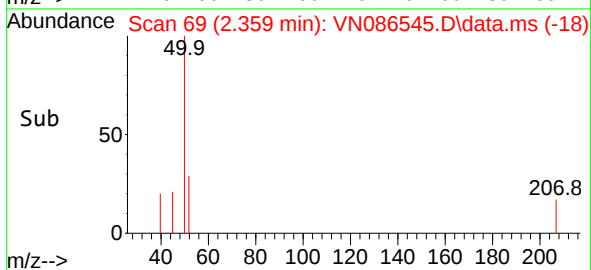
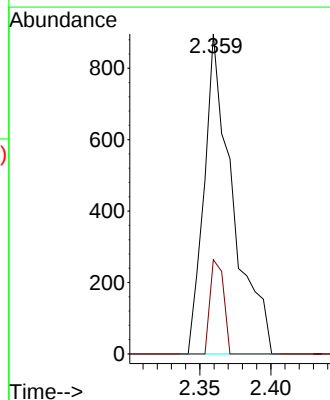
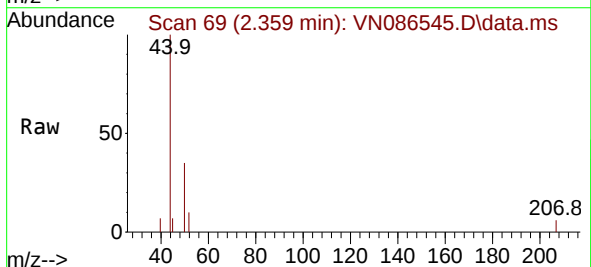
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#03

Tgt Ion:168 Resp: 196959
Ion Ratio Lower Upper
168 100
99 58.8 52.5 78.7



#3
Chloromethane
Concen: 0.369 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN086545.D
Acq: 08 May 2025 15:00

Tgt Ion: 50 Resp: 1253
Ion Ratio Lower Upper
50 100
52 29.5 26.5 39.7

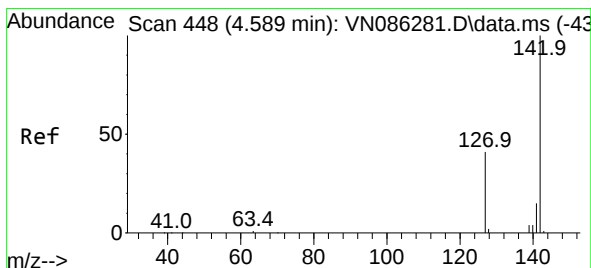
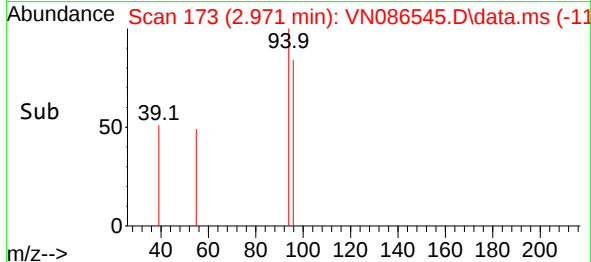
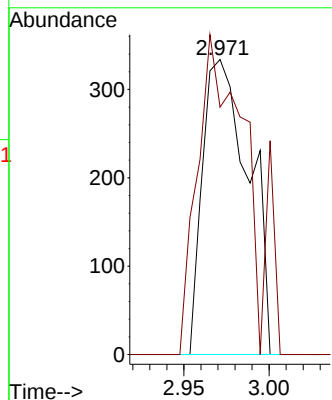
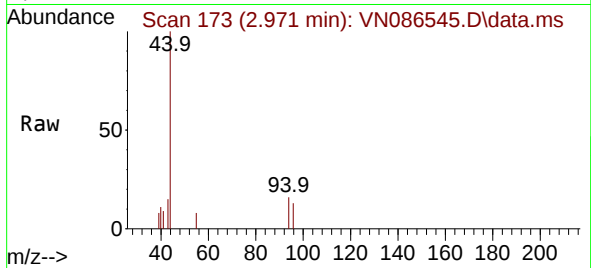




#5
Bromomethane
Concen: 0.430 ug/l
RT: 2.971 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN086545.D
Acq: 08 May 2025 15:00

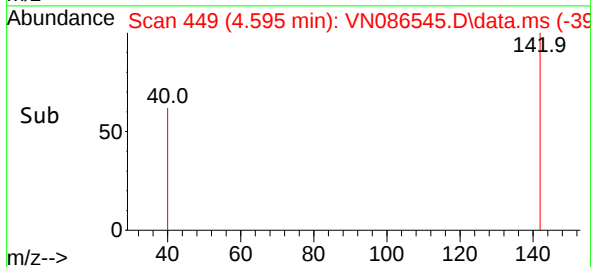
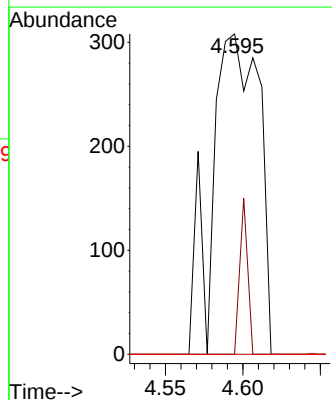
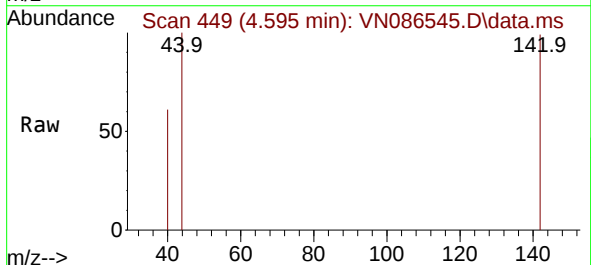
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#03

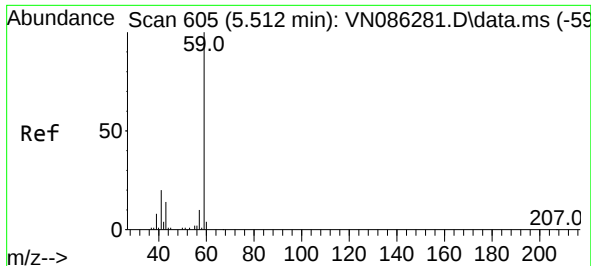
Tgt Ion: 94 Resp: 627
Ion Ratio Lower Upper
94 100
96 83.8 75.2 112.8



#10
Methyl Iodide
Concen: 0.273 ug/l
RT: 4.595 min Scan# 449
Delta R.T. 0.006 min
Lab File: VN086545.D
Acq: 08 May 2025 15:00

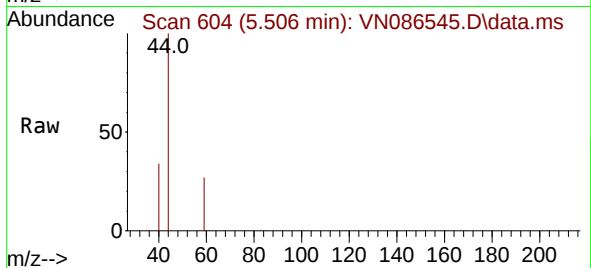
Tgt Ion: 142 Resp: 651
Ion Ratio Lower Upper
142 100
127 0.0 32.7 49.1#
141 0.0 11.7 17.5#



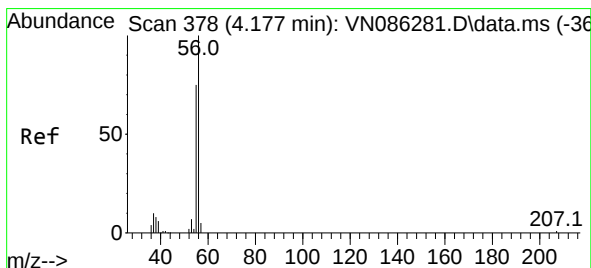
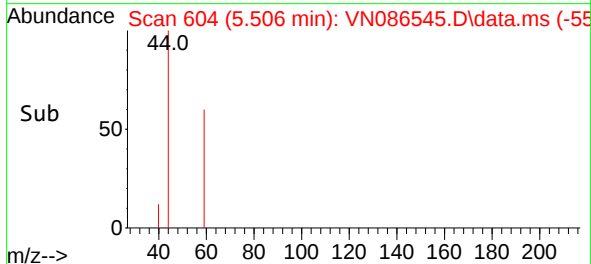
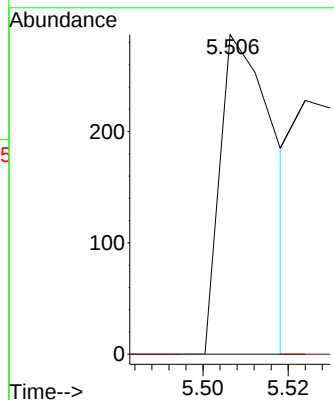


#11
Tert butyl alcohol
Concen: 0.491 ug/l
RT: 5.506 min Scan# 605
Delta R.T. -0.006 min
Lab File: VN086545.D
Acq: 08 May 2025 15:00

Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#03

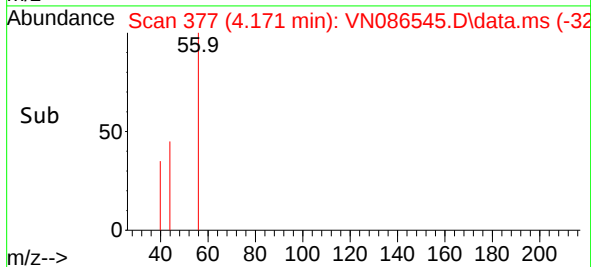
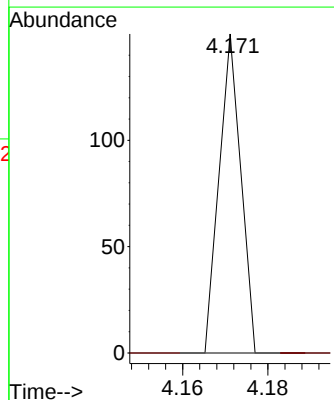
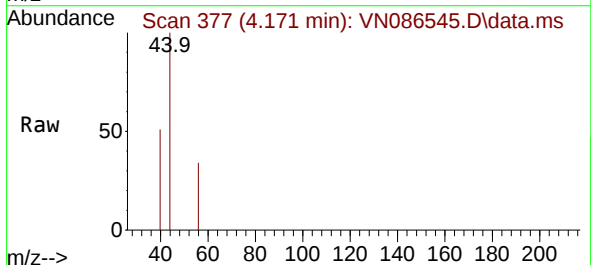


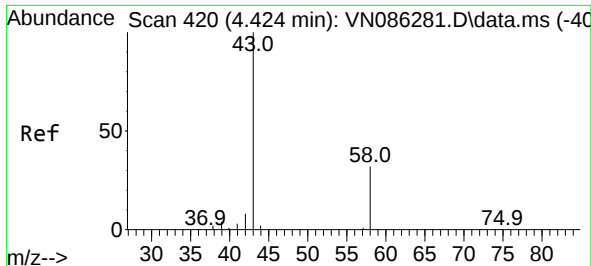
Tgt Ion: 59 Resp: 256
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#13
Acrolein
Concen: Below Cal
RT: 4.171 min Scan# 377
Delta R.T. -0.006 min
Lab File: VN086545.D
Acq: 08 May 2025 15:00

Tgt Ion: 56 Resp: 53
Ion Ratio Lower Upper
56 100
55 0.0 58.5 87.7#

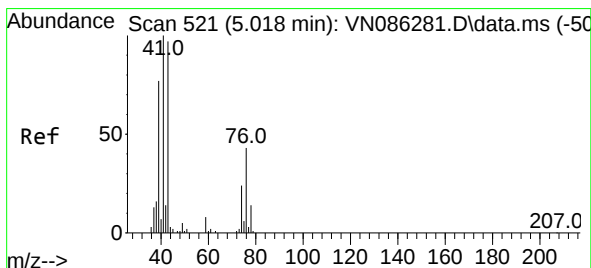
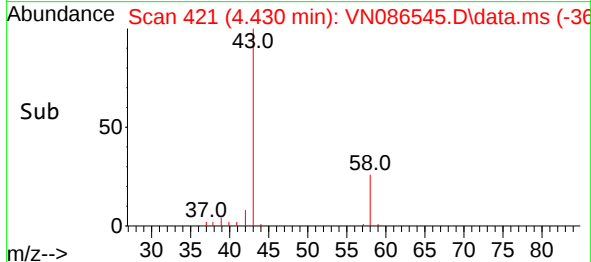
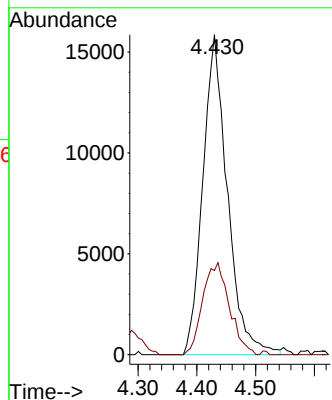
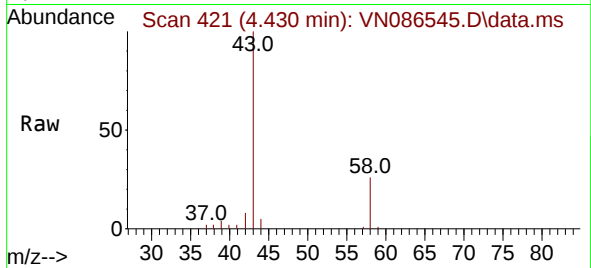




#16
Acetone
Concen: 41.909 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086545.D
Acq: 08 May 2025 15:00

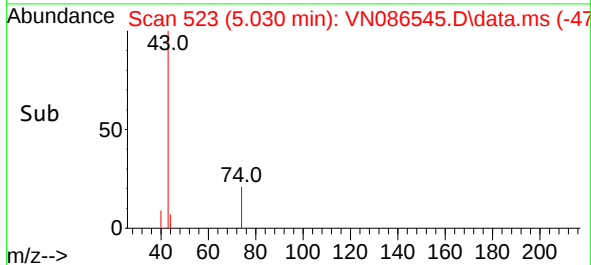
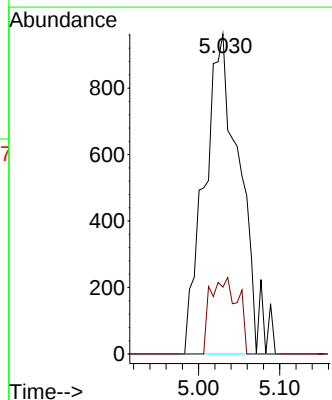
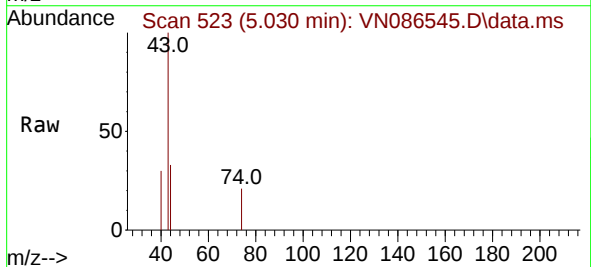
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#03

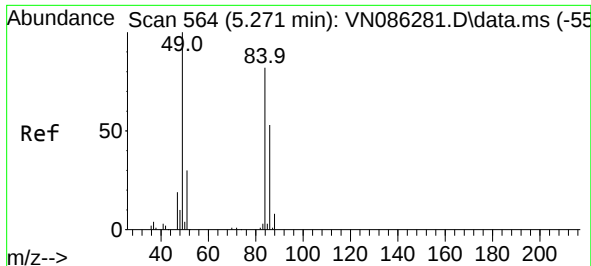
Tgt Ion: 43 Resp: 46074
Ion Ratio Lower Upper
43 100
58 26.3 25.3 37.9



#18
Methyl Acetate
Concen: 0.852 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN086545.D
Acq: 08 May 2025 15:00

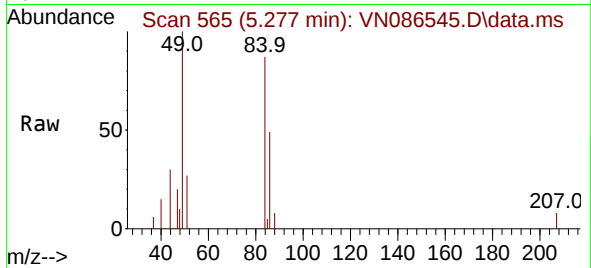
Tgt Ion: 43 Resp: 2921
Ion Ratio Lower Upper
43 100
74 18.3 19.8 29.6#



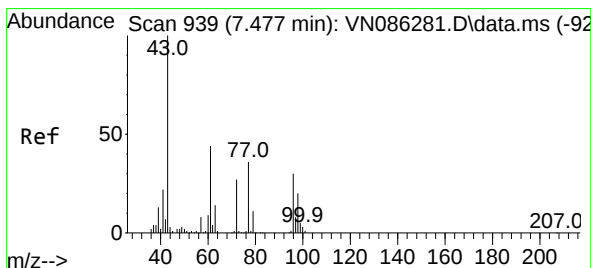
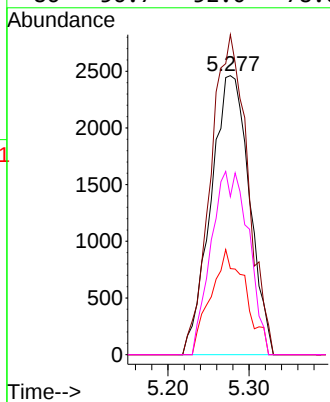
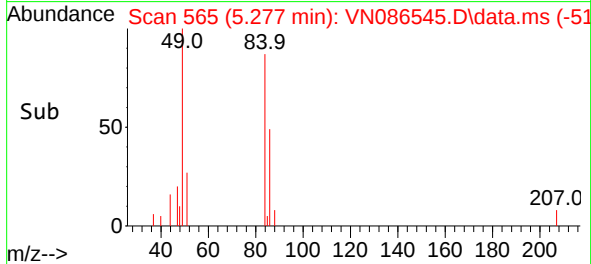


#20
Methylene Chloride
Concen: 3.081 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086545.D
Acq: 08 May 2025 15:00

Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#03

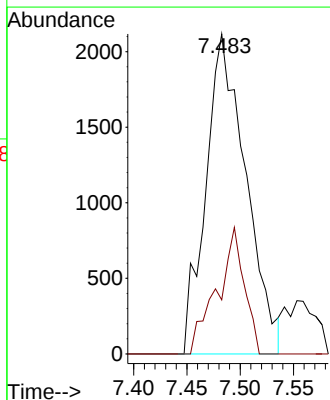
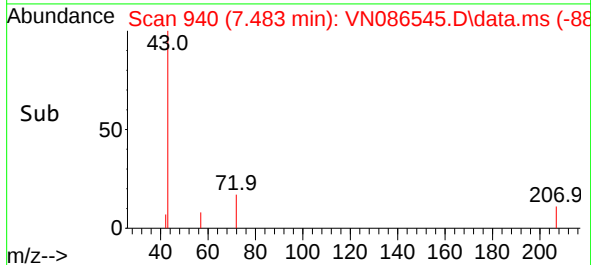
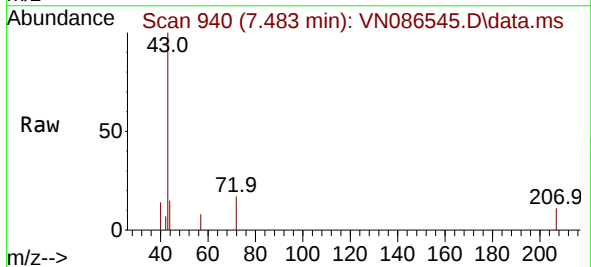


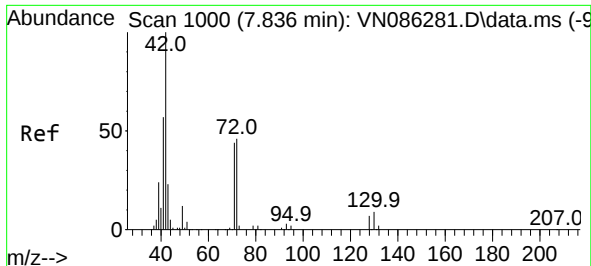
Tgt Ion:	84	Resp:	8136
Ion	Ratio	Lower	Upper
84	100		
49	114.7	98.2	147.2
51	30.8	29.8	44.6
86	56.7	52.0	78.0



#25
2-Butanone
Concen: 3.106 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN086545.D
Acq: 08 May 2025 15:00

Tgt Ion:	43	Resp:	5521
Ion	Ratio	Lower	Upper
43	100		
72	16.9	21.7	32.5#





#29

Tetrahydrofuran

Concen: 0.363 ug/l

RT: 7.841 min Scan# 1066

Delta R.T. 0.006 min

Lab File: VN086545.D

Acq: 08 May 2025 15:00

Instrument :

MSVOA_N

ClientSampleId :

PB167895ZHE#03

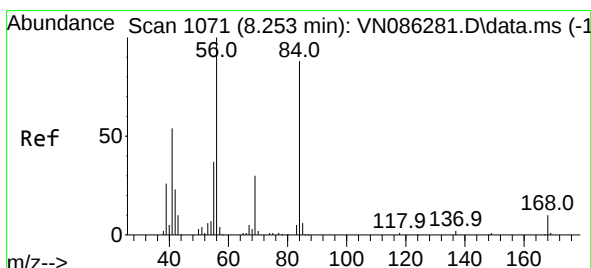
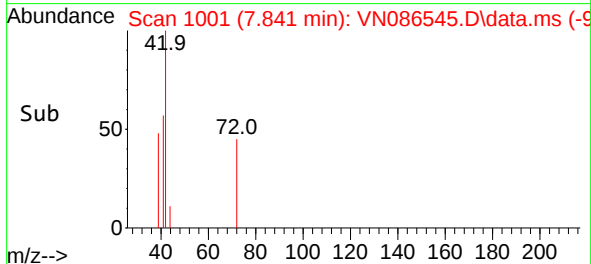
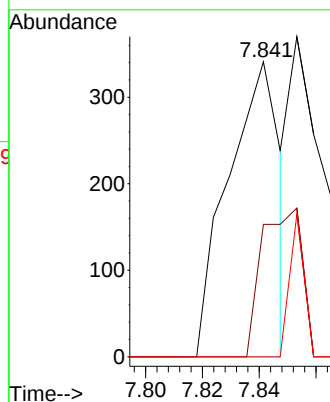
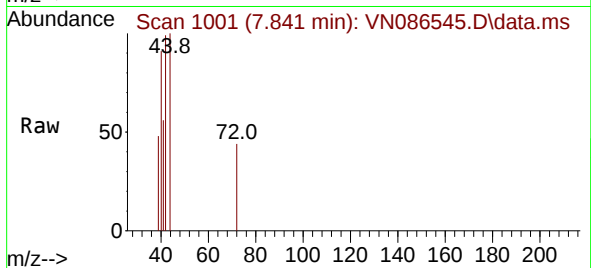
Tgt Ion: 42 Resp: 432

Ion Ratio Lower Upper

42 100

72 39.1 36.2 54.4

71 13.4 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: VN086545.D

Acq: 08 May 2025 15:00

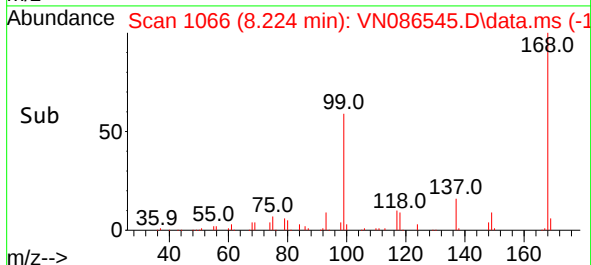
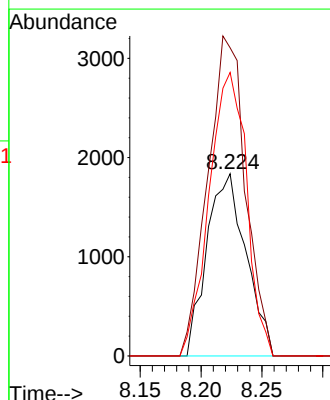
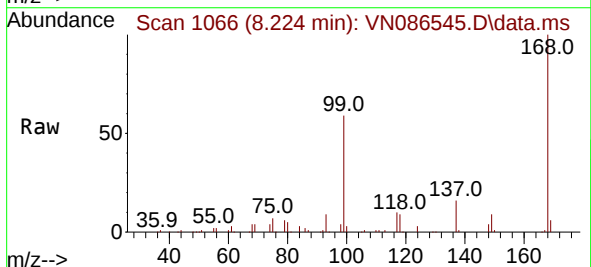
Tgt Ion: 56 Resp: 4105

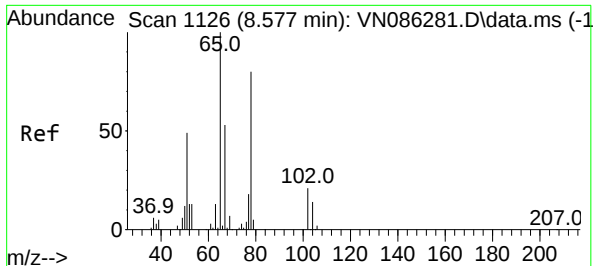
Ion Ratio Lower Upper

56 100

69 169.1 24.2 36.2#

84 155.6 70.3 105.5#

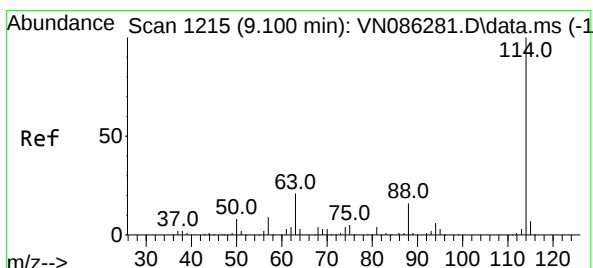
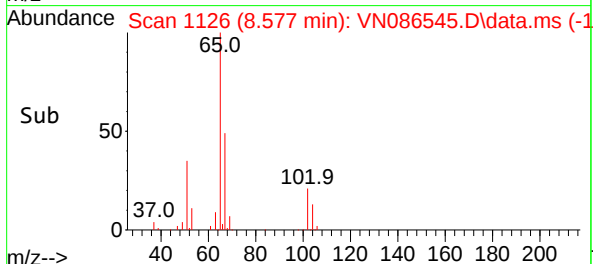
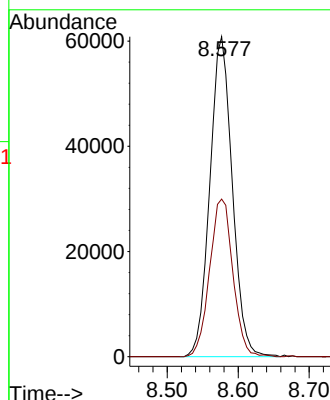
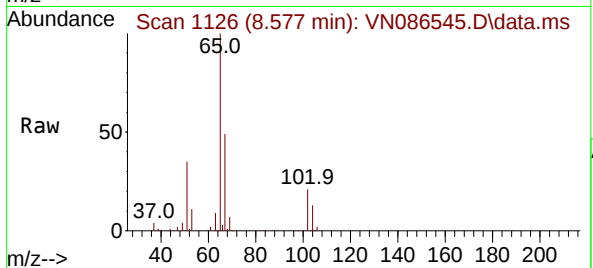




#33
1,2-Dichloroethane-d4
Concen: 46.705 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. 0.000 min
Lab File: VN086545.D
Acq: 08 May 2025 15:00

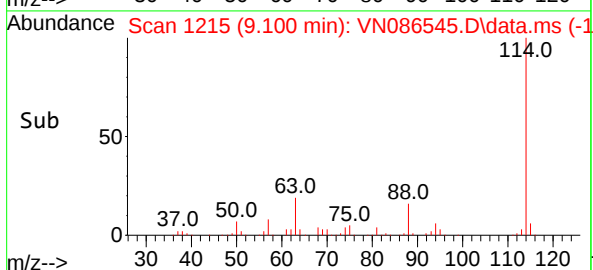
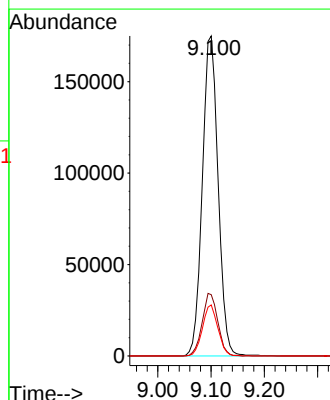
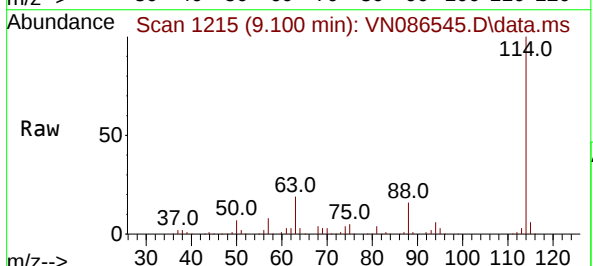
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#03

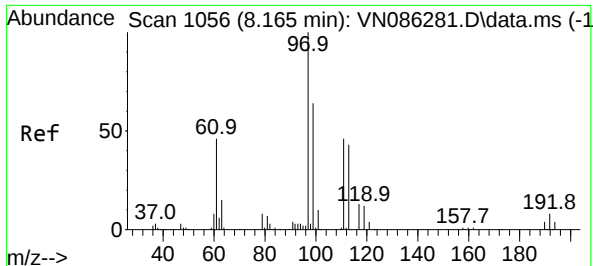
Tgt Ion: 65 Resp: 133393
Ion Ratio Lower Upper
65 100
67 51.1 0.0 106.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. 0.000 min
Lab File: VN086545.D
Acq: 08 May 2025 15:00

Tgt Ion: 114 Resp: 359718
Ion Ratio Lower Upper
114 100
63 19.2 0.0 42.6
88 16.0 0.0 31.8





#35

Dibromofluoromethane

Concen: 61.517 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN086545.D

Acq: 08 May 2025 15:00

Instrument :

MSVOA_N

ClientSampleId :

PB167895ZHE#03

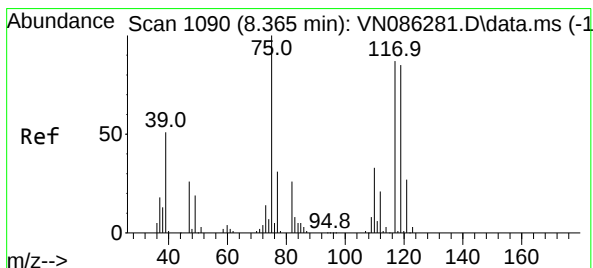
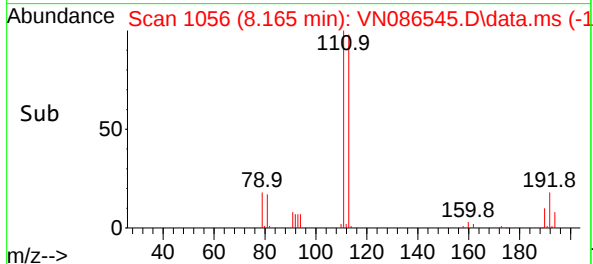
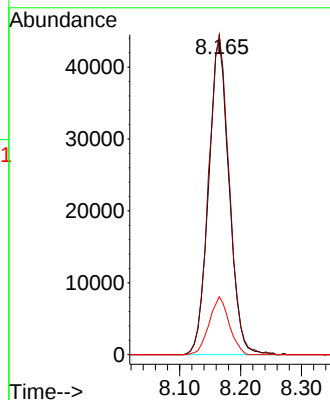
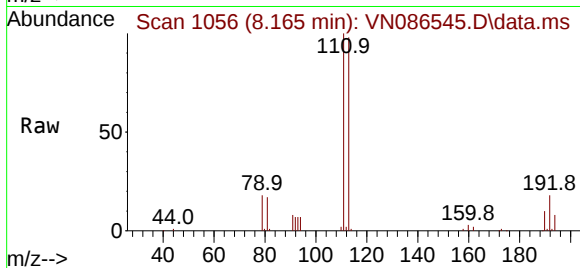
Tgt Ion:113 Resp: 102703

Ion Ratio Lower Upper

113 100

111 101.8 83.4 125.0

192 17.9 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.597 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086545.D

Acq: 08 May 2025 15:00

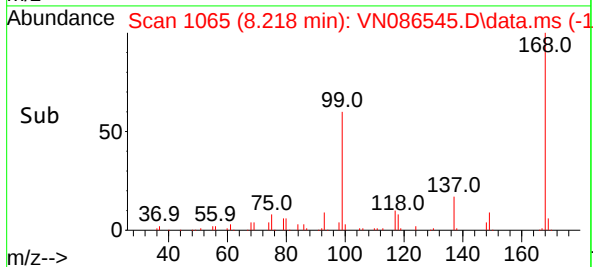
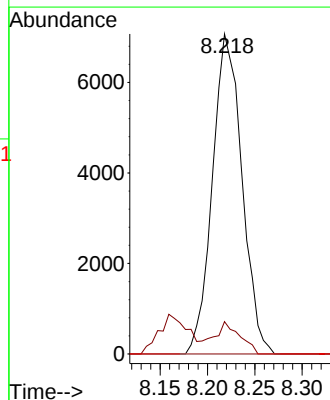
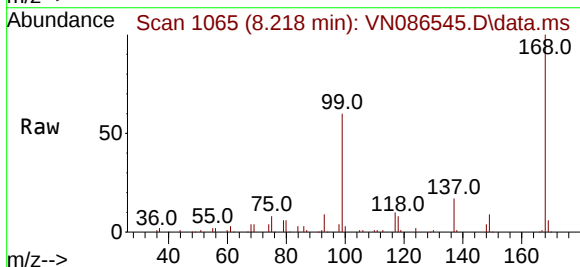
Tgt Ion: 75 Resp: 15329

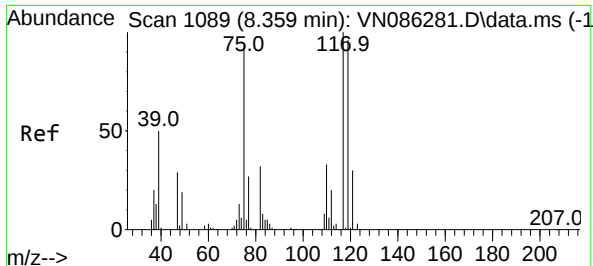
Ion Ratio Lower Upper

75 100

110 8.6 16.8 50.4#

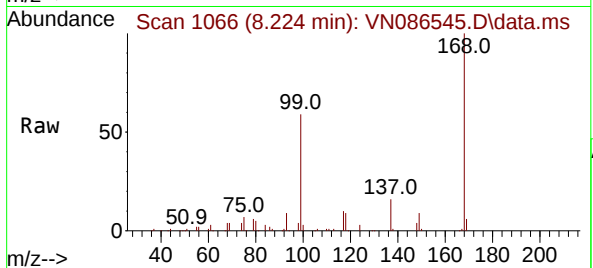
77 0.0 24.9 37.3#



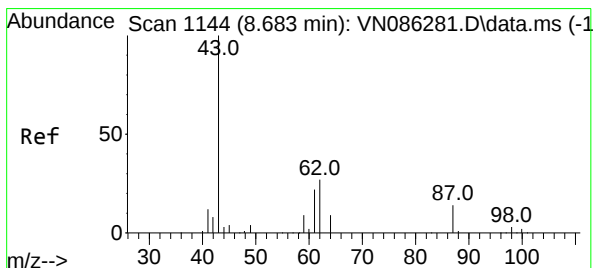
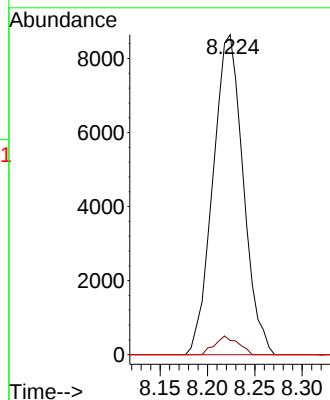
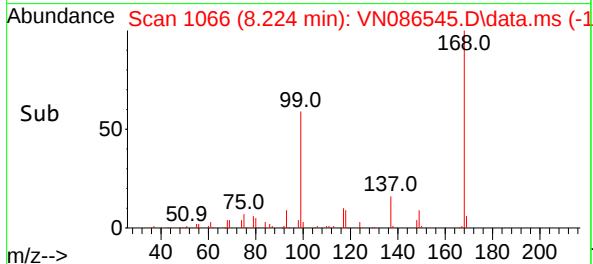


#38
Carbon Tetrachloride
Concen: 6.055 ug/l
RT: 8.224 min Scan# 1106
Delta R.T. -0.135 min
Lab File: VN086545.D
Acq: 08 May 2025 15:00

Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#03

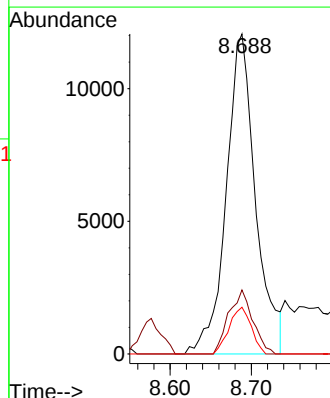
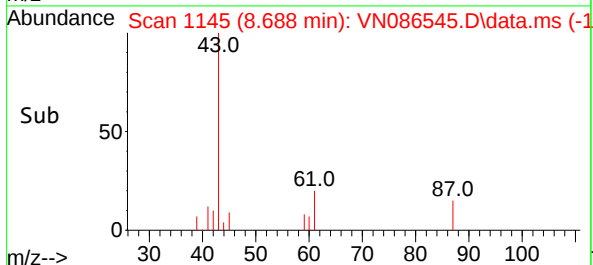
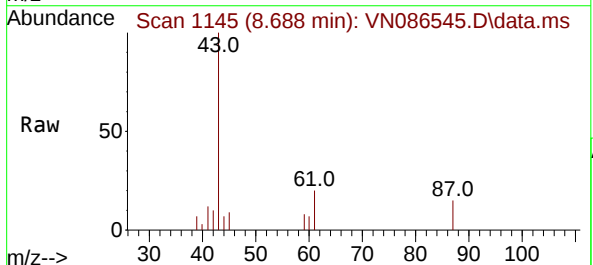


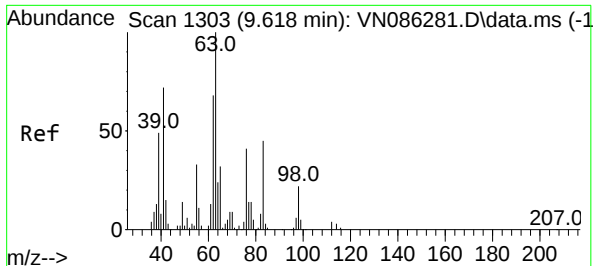
Tgt Ion:117 Resp: 19229
Ion Ratio Lower Upper
117 100
119 4.5 76.8 115.2#
121 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: 3.007 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.005 min
Lab File: VN086545.D
Acq: 08 May 2025 15:00

Tgt Ion: 43 Resp: 30339
Ion Ratio Lower Upper
43 100
61 16.4 20.5 30.7#
87 11.0 10.5 15.7





#45

1,2-Dichloropropane

Concen: 0.441 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.124 min

Lab File: VN086545.D

Acq: 08 May 2025 15:00

Instrument :

MSVOA_N

ClientSampleId :

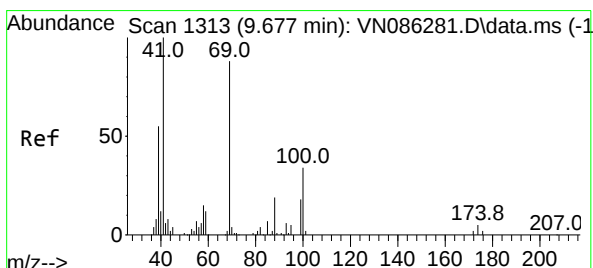
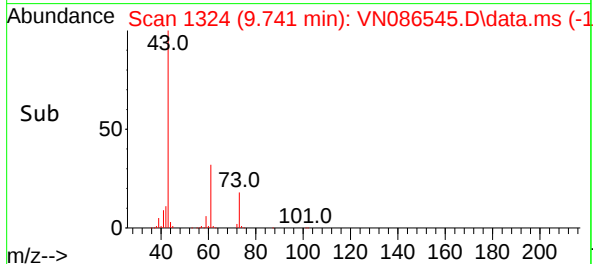
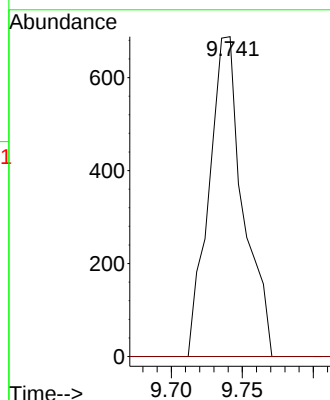
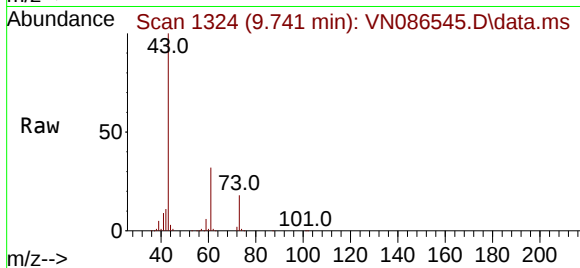
PB167895ZHE#03

Tgt Ion: 63 Resp: 1154

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#



#48

Methyl methacrylate

Concen: 24.626 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.059 min

Lab File: VN086545.D

Acq: 08 May 2025 15:00

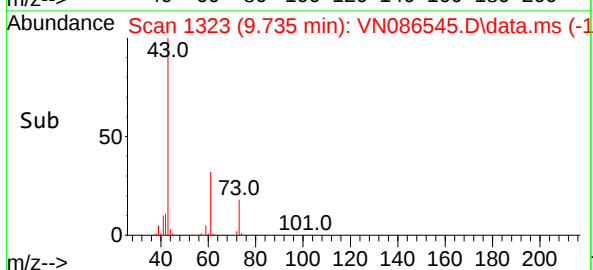
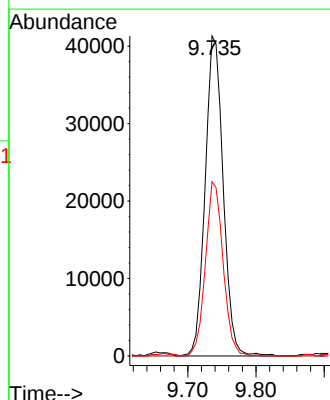
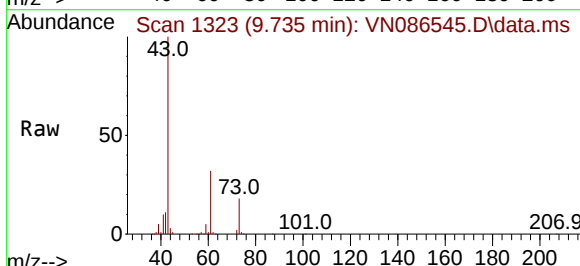
Tgt Ion: 41 Resp: 75919

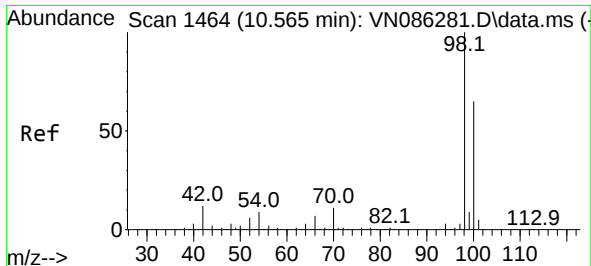
Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 53.4 45.2 67.8

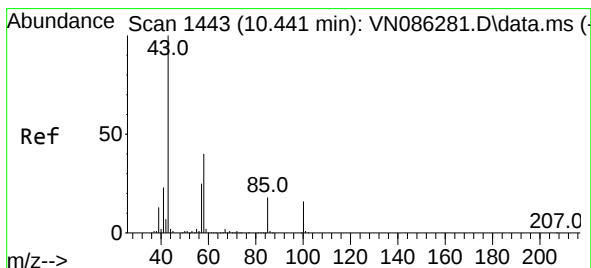
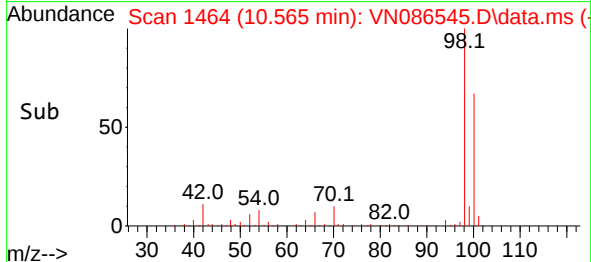
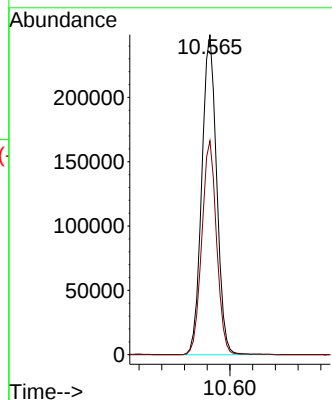
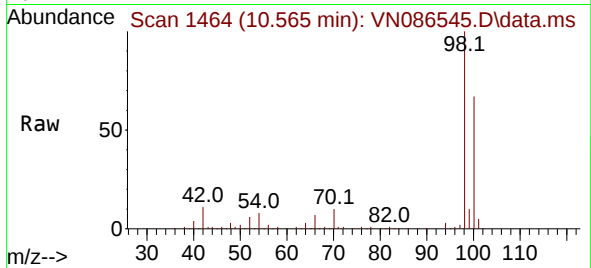




#50
Toluene-d8
Concen: 50.569 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086545.D
Acq: 08 May 2025 15:00

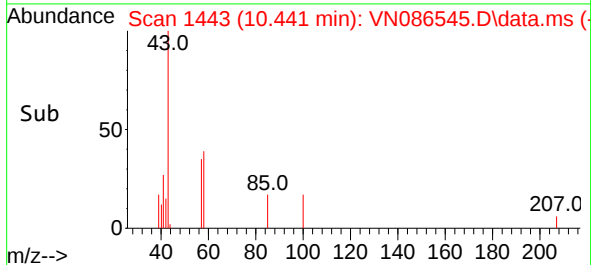
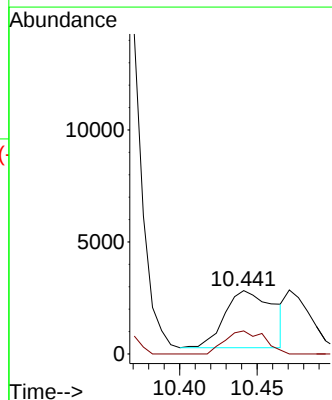
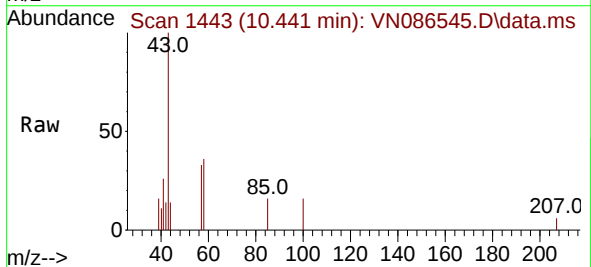
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#03

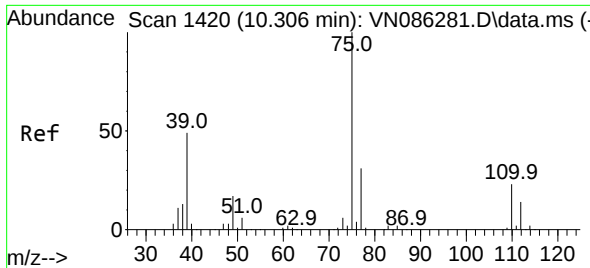
Tgt Ion: 98 Resp: 451209
Ion Ratio Lower Upper
98 100
100 66.5 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 1.551 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086545.D
Acq: 08 May 2025 15:00

Tgt Ion: 43 Resp: 5575
Ion Ratio Lower Upper
43 100
58 32.6 32.2 48.4

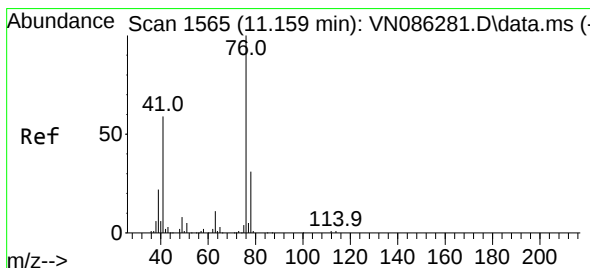
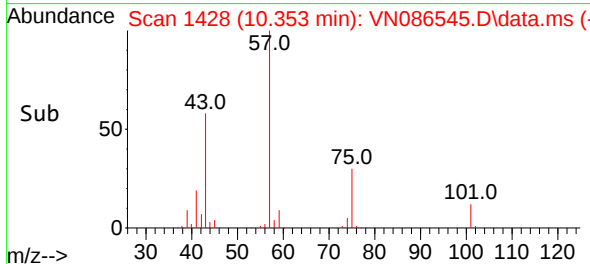
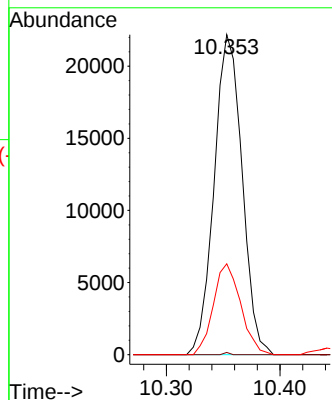
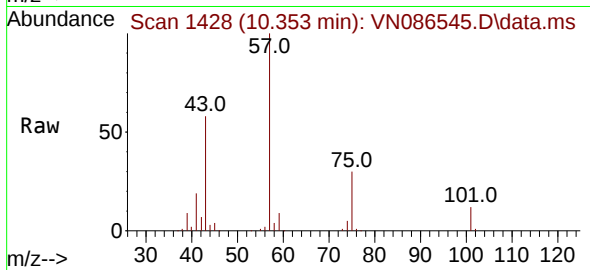




#54
 cis-1,3-Dichloropropene
 Concen: 8.572 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN086545.D
 Acq: 08 May 2025 15:00

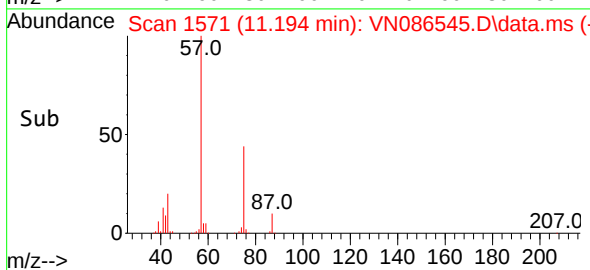
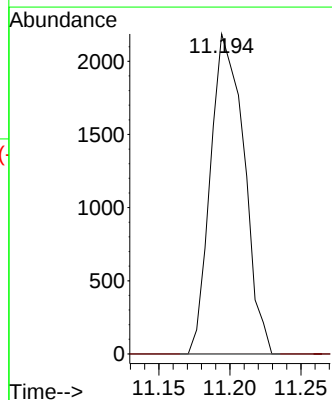
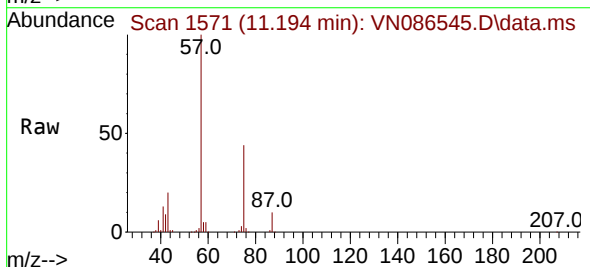
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167895ZHE#03

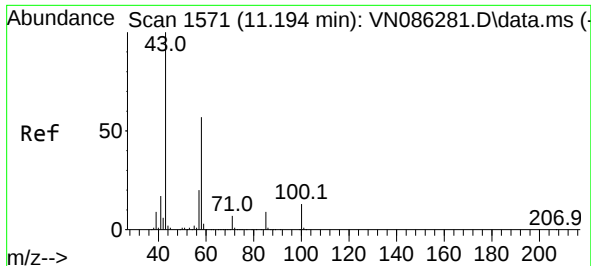
Tgt Ion: 75 Resp: 37822
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.2 37.8#
 39 28.4 39.3 58.9#



#57
 1,3-Dichloropropane
 Concen: 0.844 ug/l
 RT: 11.194 min Scan# 1571
 Delta R.T. 0.035 min
 Lab File: VN086545.D
 Acq: 08 May 2025 15:00

Tgt Ion: 76 Resp: 3592
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

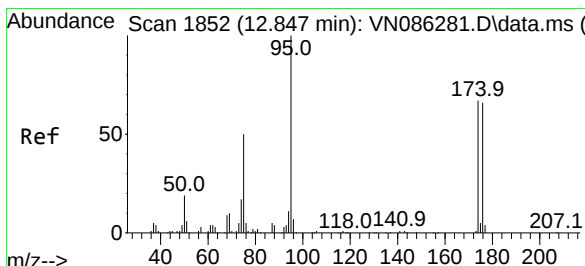
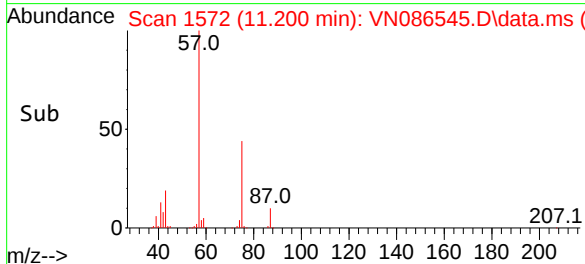
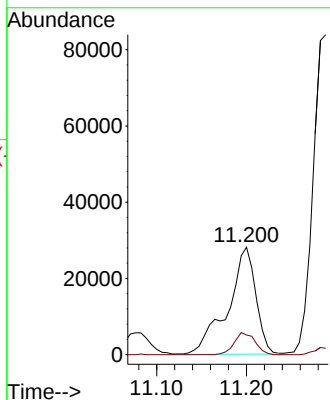
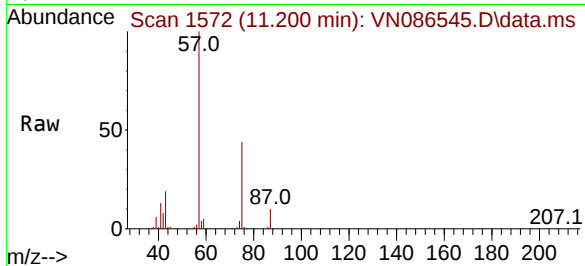




#59
2-Hexanone
Concen: 22.871 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086545.D
Acq: 08 May 2025 15:00

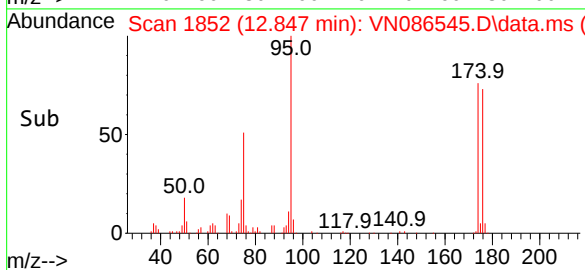
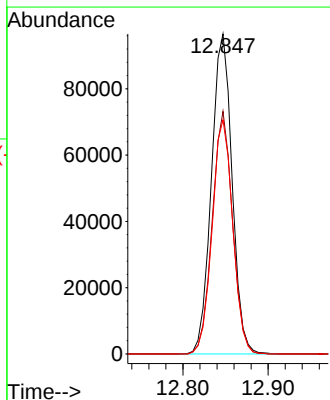
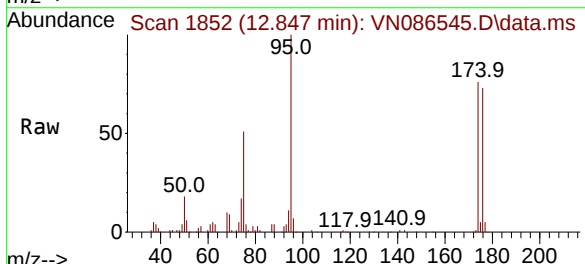
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#03

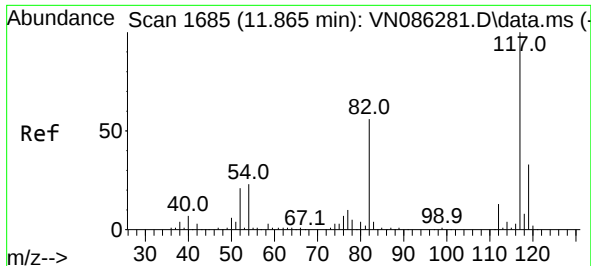
Tgt Ion: 43 Resp: 60985
Ion Ratio Lower Upper
43 100
58 15.3 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 49.926 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086545.D
Acq: 08 May 2025 15:00

Tgt Ion: 95 Resp: 162482
Ion Ratio Lower Upper
95 100
174 74.6 0.0 133.4
176 72.9 0.0 129.2

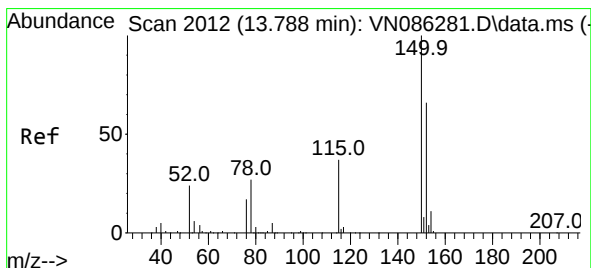
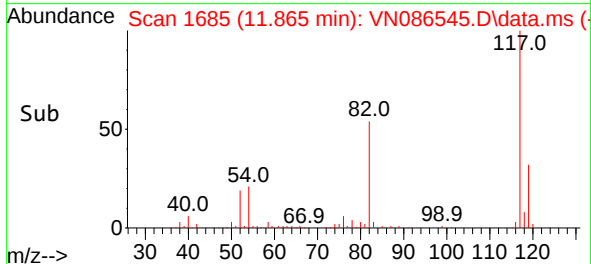
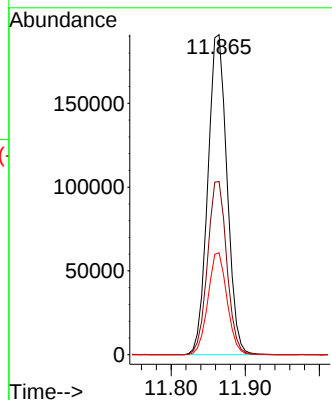
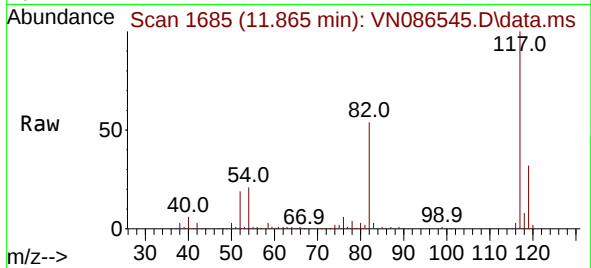




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN086545.D
Acq: 08 May 2025 15:00

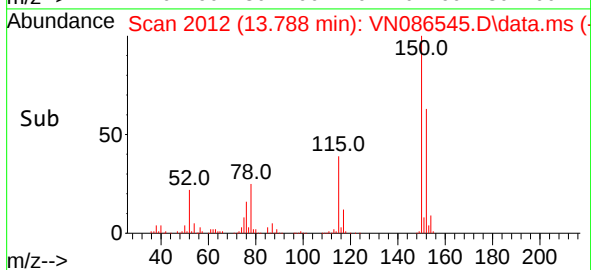
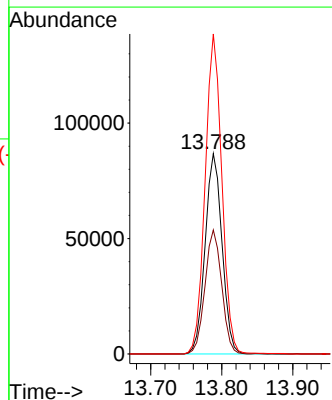
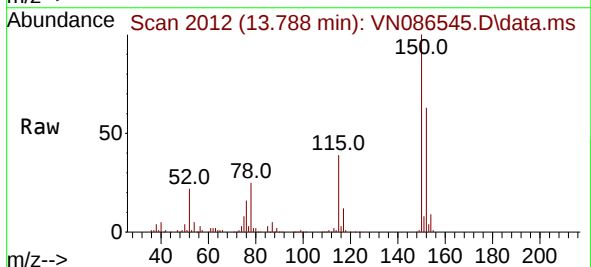
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#03

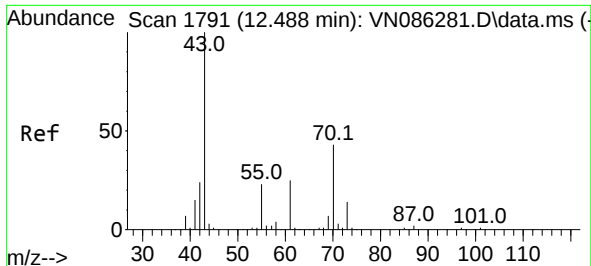
Tgt Ion:117 Resp: 343781
Ion Ratio Lower Upper
117 100
82 54.1 44.7 67.1
119 31.8 26.4 39.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. 0.000 min
Lab File: VN086545.D
Acq: 08 May 2025 15:00

Tgt Ion:152 Resp: 143873
Ion Ratio Lower Upper
152 100
115 61.2 31.9 95.9
150 157.6 0.0 352.0

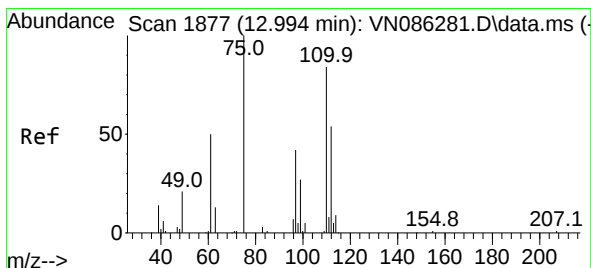
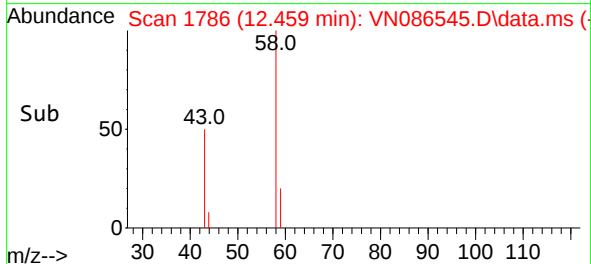
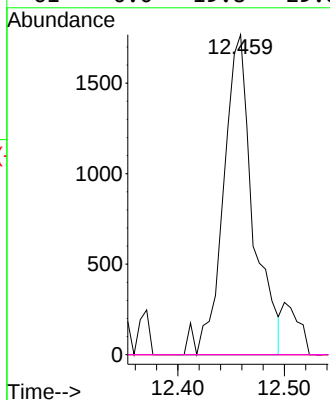
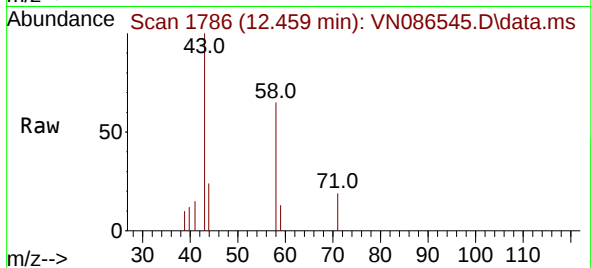




#74
N-amy1 acetate
Concen: 0.583 ug/l
RT: 12.459 min Scan# 11
Delta R.T. -0.029 min
Lab File: VN086545.D
Acq: 08 May 2025 15:00

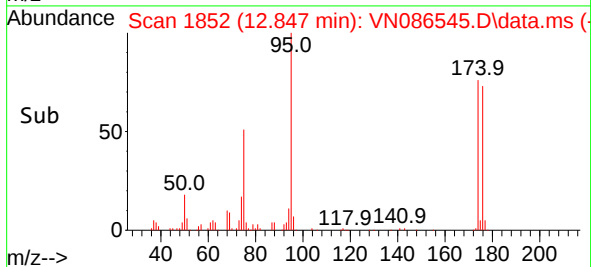
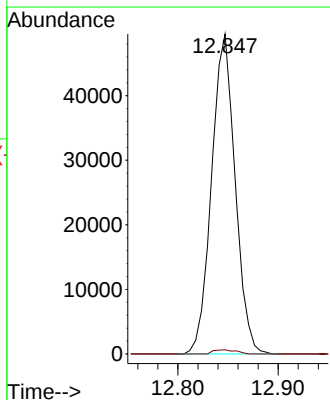
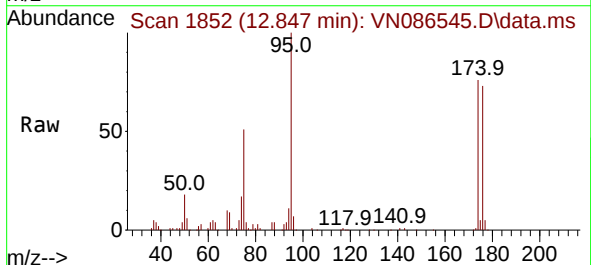
Instrument :
MSVOA_N
ClientSampleId :
PB167895ZHE#03

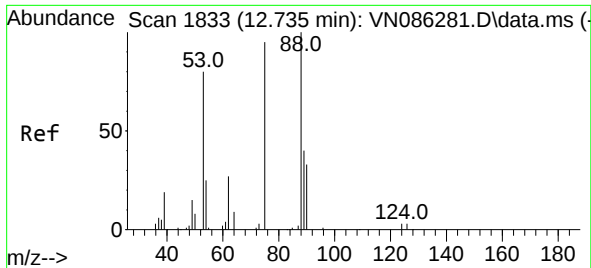
Tgt Ion: 43	Resp:	3416	
Ion	Ratio	Lower	Upper
43	100		
70	0.0	35.0	52.4#
55	0.0	19.0	28.4#
61	0.0	19.8	29.8#



#76
1,2,3-Trichloropropane
Concen: 23.837 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086545.D
Acq: 08 May 2025 15:00

Tgt Ion: 75	Resp:	80932	
Ion Ratio	Lower	Upper	
75 100			
77 1.3	98.8	296.4#	





#81
 trans-1,4-Dichloro-2-butene
 Concen: 57.248 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086545.D
 Acq: 08 May 2025 15:00

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167895ZHE#03

Tgt Ion: 75 Resp: 80932
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.2 118.8#
 89 0.0 35.7 53.5#

