

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051325\
 Data File : VN086596.D
 Acq On : 13 May 2025 12:58
 Operator : JC\MD
 Sample : PB167932ZHE#15
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167932ZHE#15

Quant Time: May 14 01:42:37 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	173534	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	333224	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	321110	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	135652	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	123071	48.908	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	97.820%
35) Dibromofluoromethane	8.165	113	97613	63.117	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	126.240%#
50) Toluene-d8	10.565	98	422891	51.164	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	102.320%
62) 4-Bromofluorobenzene	12.847	95	149174	49.481	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	98.960%
Target Compounds						
					Qvalue	
3) Chloromethane	2.359	50	954	0.319	ug/l	92
5) Bromomethane	2.977	94	483	0.376	ug/l #	79
13) Acrolein	4.200	56	64	Below Cal	#	13
16) Acetone	4.436	43	23239	21.495	ug/l	94
17) Carbon Disulfide	4.718	76	1583	0.259	ug/l #	74
18) Methyl Acetate	5.030	43	3073	1.017	ug/l #	84
20) Methylene Chloride	5.277	84	4698	2.019	ug/l #	75
25) 2-Butanone	7.488	43	3231	2.063	ug/l	98
29) Tetrahydrofuran	7.841	42	839	0.801	ug/l #	44
31) Cyclohexane	8.218	56	3823	0.937	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	14842	4.805	ug/l #	50
37) Ethyl Acetate	7.553	43	720	0.221	ug/l #	68
38) Carbon Tetrachloride	8.224	117	18454	6.273	ug/l #	17
41) Methacrylonitrile	7.859	41	420	0.223	ug/l #	30
43) Isopropyl Acetate	8.688	43	28170	3.019	ug/l #	83
45) 1,2-Dichloropropane	9.735	63	803	0.331	ug/l #	43
48) Methyl methacrylate	9.741	41	61432	21.511	ug/l #	43
51) 4-Methyl-2-Pentanone	10.441	43	4147	1.245	ug/l #	77
54) cis-1,3-Dichloropropene	10.353	75	30900	7.560	ug/l #	59
57) 1,3-Dichloropropane	11.200	76	2863	0.726	ug/l #	43
59) 2-Hexanone	11.200	43	51873	21.001	ug/l #	42
74) N-amyl acetate	12.459	43	2560	0.463	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	75274	23.514	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	75274	56.473	ug/l #	10
95) Naphthalene	15.635	128	1569	0.206	ug/l #	74

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

Quant Time: May 14 01:42:37 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

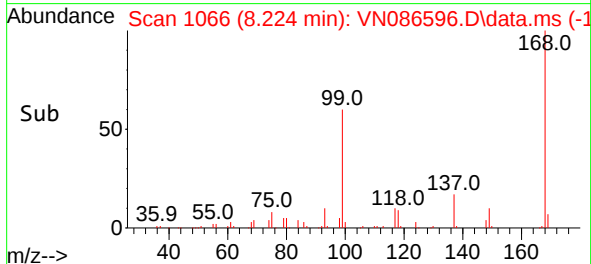
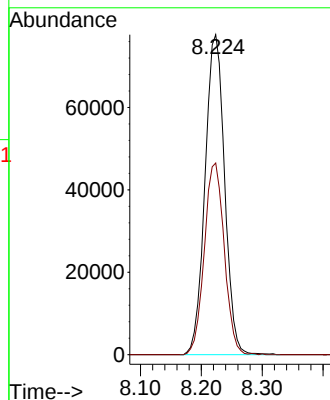
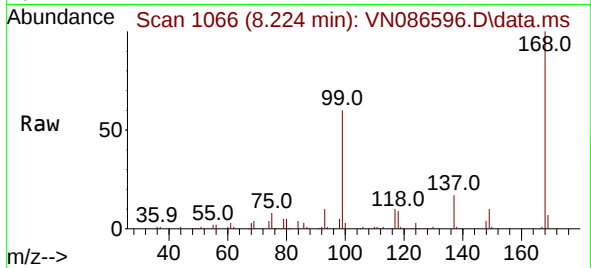




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086596.D
Acq: 13 May 2025 12:58

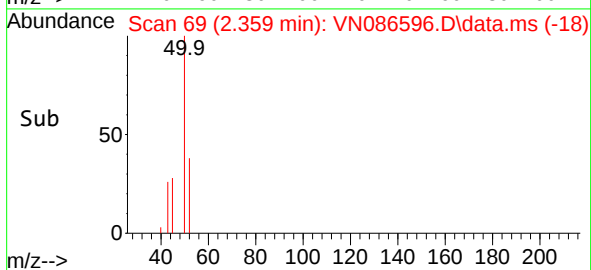
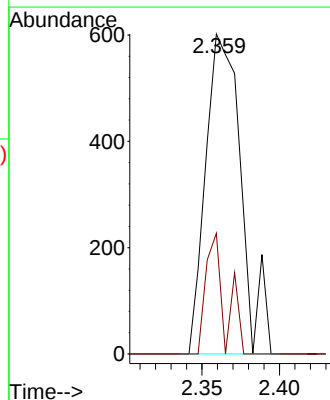
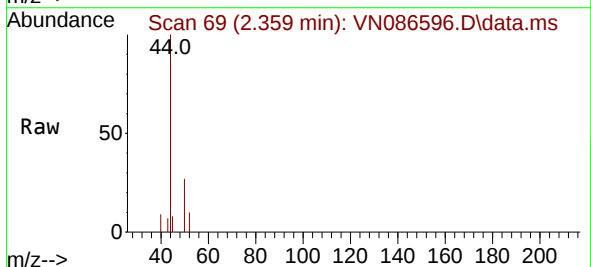
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#15

Tgt Ion:168 Resp: 173534
Ion Ratio Lower Upper
168 100
99 59.9 52.5 78.7



#3
Chloromethane
Concen: 0.319 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN086596.D
Acq: 13 May 2025 12:58

Tgt Ion: 50 Resp: 954
Ion Ratio Lower Upper
50 100
52 37.7 26.5 39.7

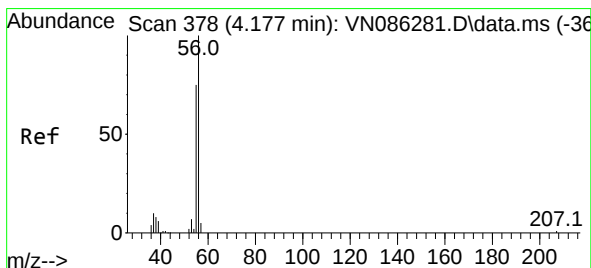
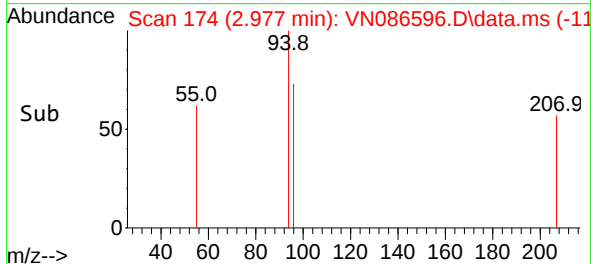
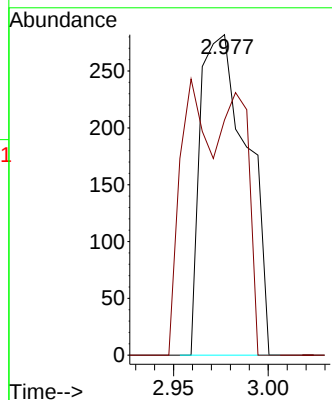
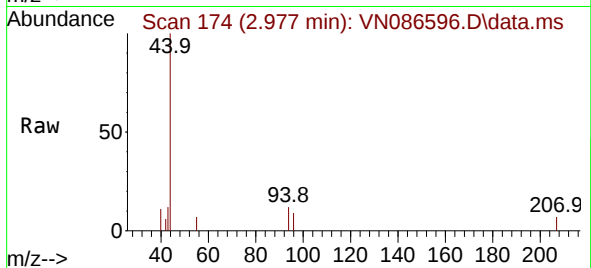




#5
Bromomethane
Concen: 0.376 ug/l
RT: 2.977 min Scan# 11
Delta R.T. 0.023 min
Lab File: VN086596.D
Acq: 13 May 2025 12:58

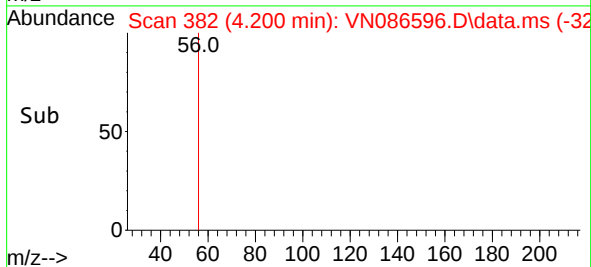
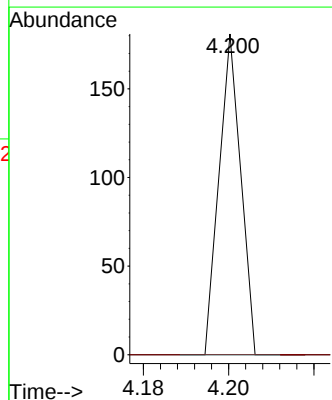
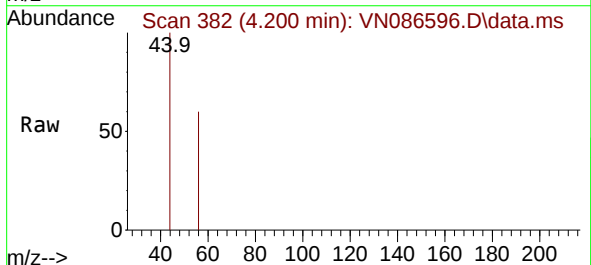
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ClientSampleId :
PB167932ZHE#15

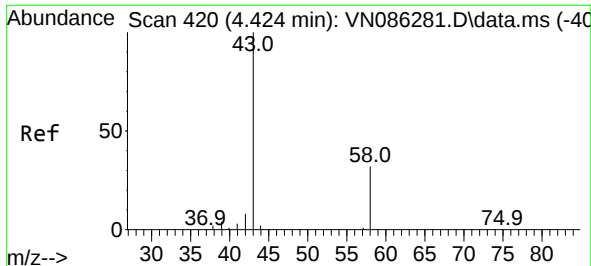
Tgt Ion: 94 Resp: 483
Ion Ratio Lower Upper
94 100
96 73.4 75.2 112.8#



#13
Acrolein
Concen: Below Cal
RT: 4.200 min Scan# 382
Delta R.T. 0.023 min
Lab File: VN086596.D
Acq: 13 May 2025 12:58

Tgt Ion: 56 Resp: 64
Ion Ratio Lower Upper
56 100
55 0.0 58.5 87.7#

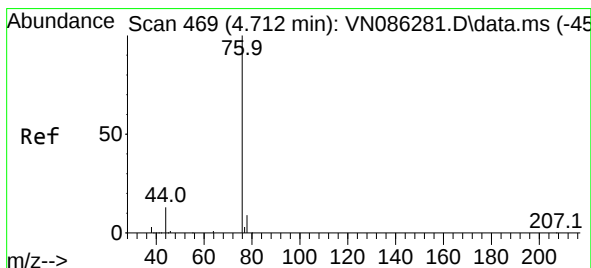
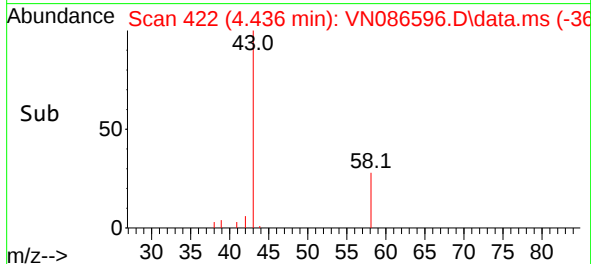
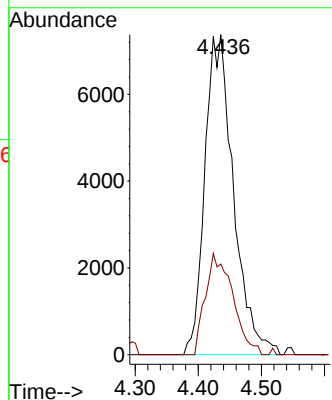
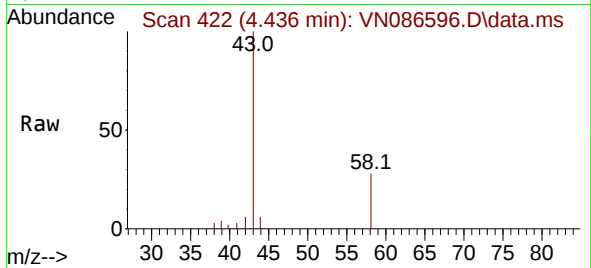




#16
Acetone
Concen: 21.495 ug/l
RT: 4.436 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN086596.D
Acq: 13 May 2025 12:58

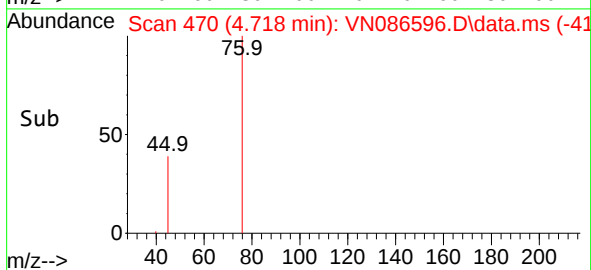
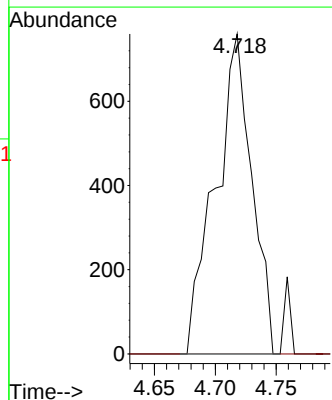
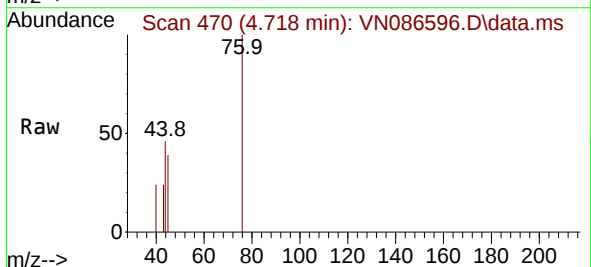
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#15

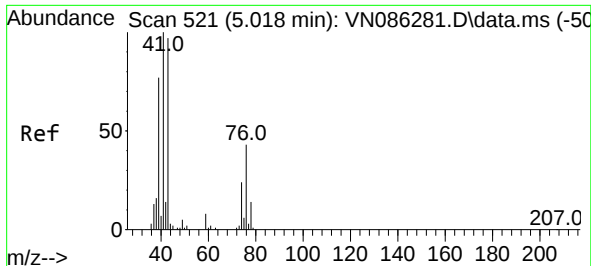
Tgt Ion: 43 Resp: 23239
Ion Ratio Lower Upper
43 100
58 28.3 25.3 37.9



#17
Carbon Disulfide
Concen: 0.259 ug/l
RT: 4.718 min Scan# 470
Delta R.T. 0.006 min
Lab File: VN086596.D
Acq: 13 May 2025 12:58

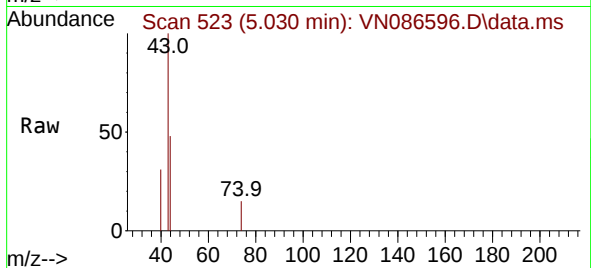
Tgt Ion: 76 Resp: 1583
Ion Ratio Lower Upper
76 100
78 0.0 7.6 11.4#



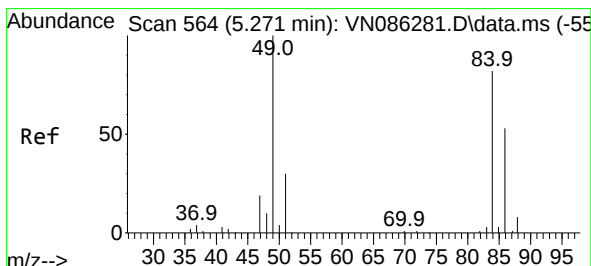
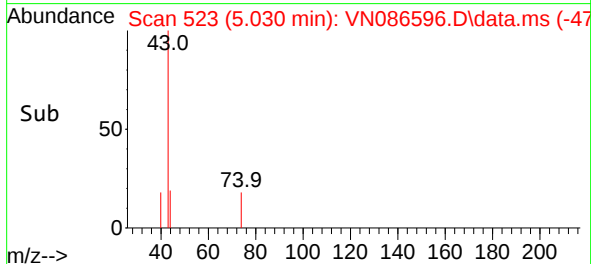
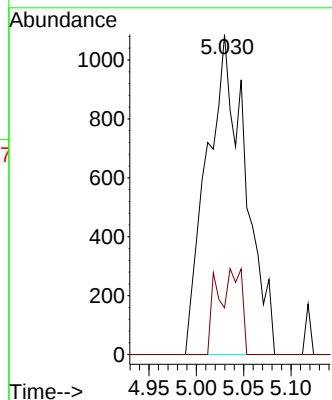


#18
Methyl Acetate
Concen: 1.017 ug/l
RT: 5.030 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN086596.D
Acq: 13 May 2025 12:58

Instrument :
MSVOA_N
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PB167932ZHE#15

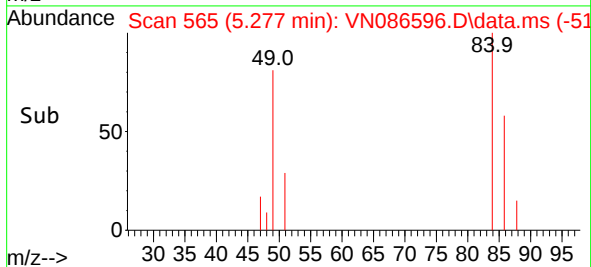
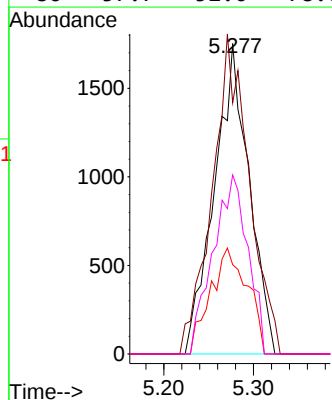
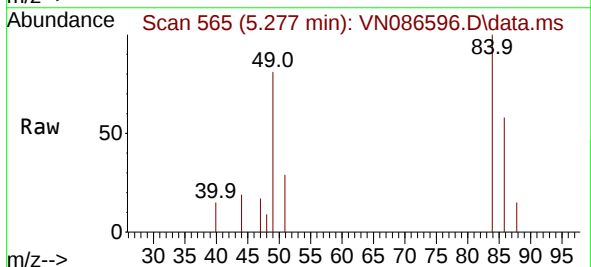


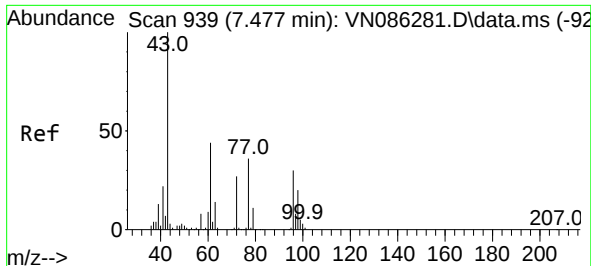
Tgt Ion: 43 Resp: 3073
Ion Ratio Lower Upper
43 100
74 16.7 19.8 29.6#



#20
Methylene Chloride
Concen: 2.019 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN086596.D
Acq: 13 May 2025 12:58

Tgt Ion: 84 Resp: 4698
Ion Ratio Lower Upper
84 100
49 80.9 98.2 147.2#
51 28.8 29.8 44.6#
86 57.7 52.0 78.0

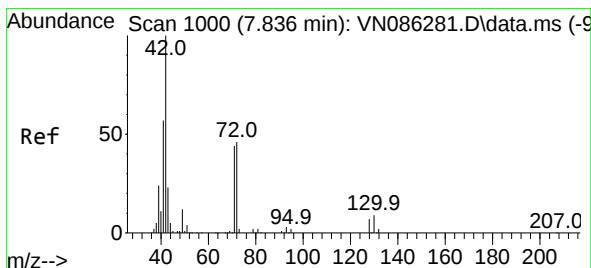
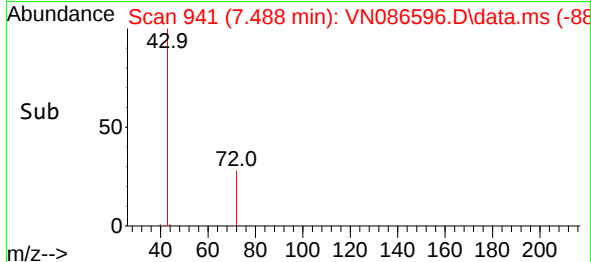
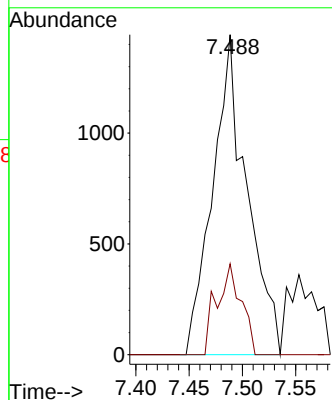
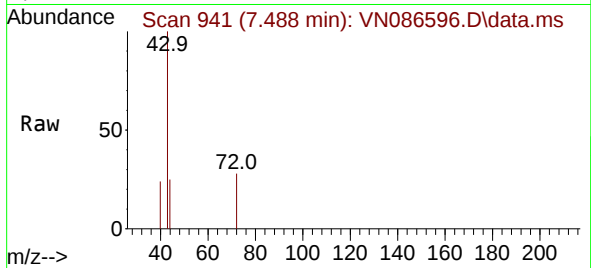




#25
2-Butanone
Concen: 2.063 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086596.D
Acq: 13 May 2025 12:58

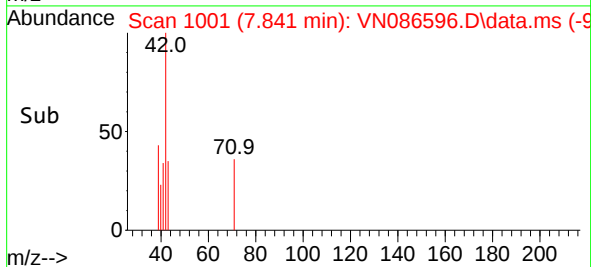
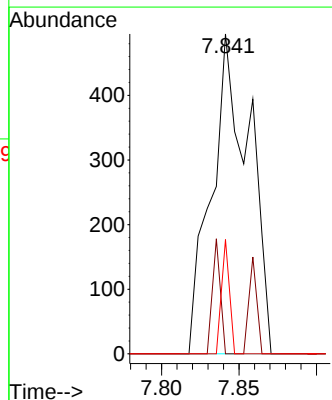
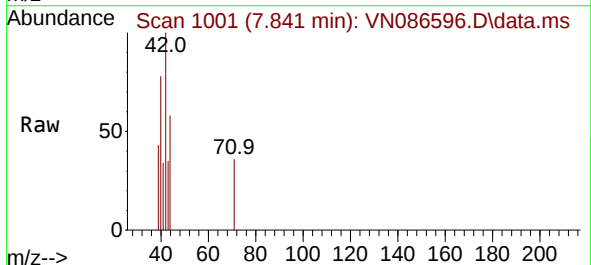
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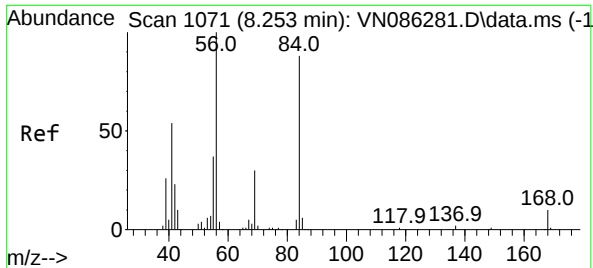
Tgt Ion: 43 Resp: 3231
Ion Ratio Lower Upper
43 100
72 28.4 21.7 32.5



#29
Tetrahydrofuran
Concen: 0.801 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VN086596.D
Acq: 13 May 2025 12:58

Tgt Ion: 42 Resp: 839
Ion Ratio Lower Upper
42 100
72 7.5 36.2 54.4#
71 7.4 34.0 51.0#

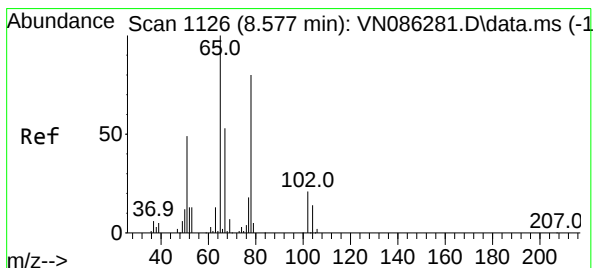
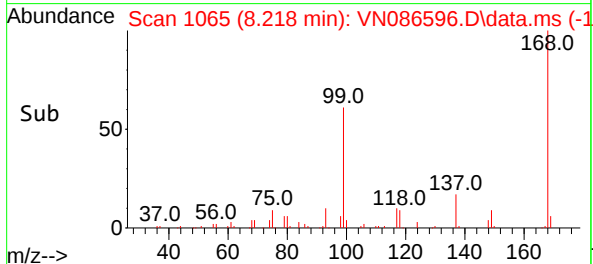
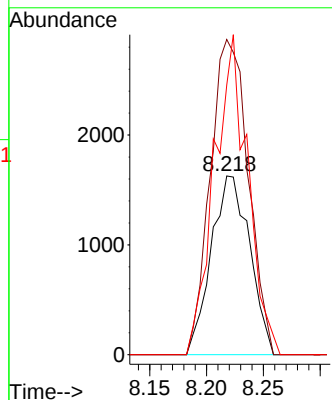
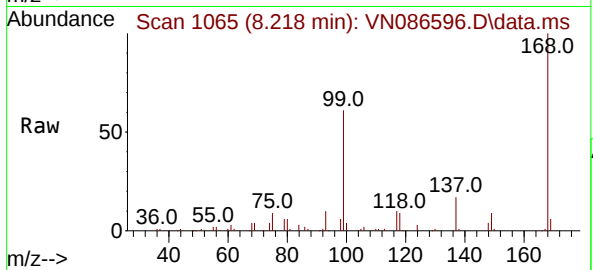




#31
Cyclohexane
Concen: 0.937 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN086596.D
Acq: 13 May 2025 12:58

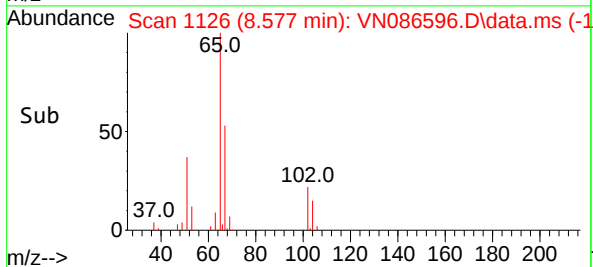
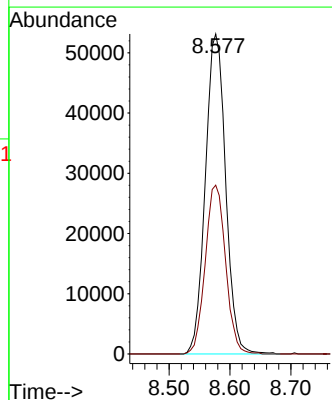
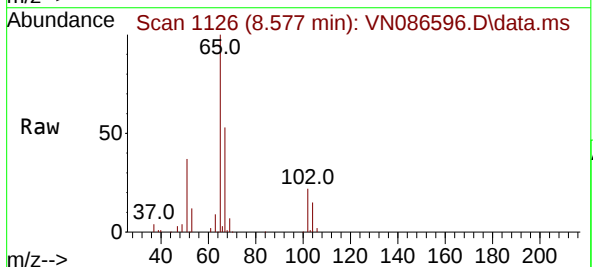
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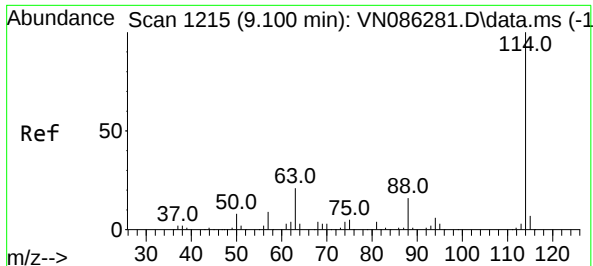
Tgt Ion: 56 Resp: 3823
Ion Ratio Lower Upper
56 100
69 176.5 24.2 36.2#
84 151.0 70.3 105.5#



#33
1,2-Dichloroethane-d4
Concen: 48.908 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086596.D
Acq: 13 May 2025 12:58

Tgt Ion: 65 Resp: 123071
Ion Ratio Lower Upper
65 100
67 52.8 0.0 106.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN086596.D

Acq: 13 May 2025 12:58

Instrument :

MSVOA_N

ClientSampleId :

PB167932ZHE#15

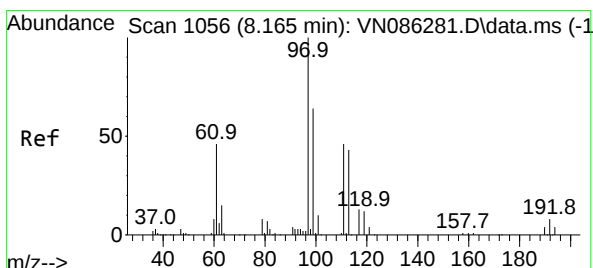
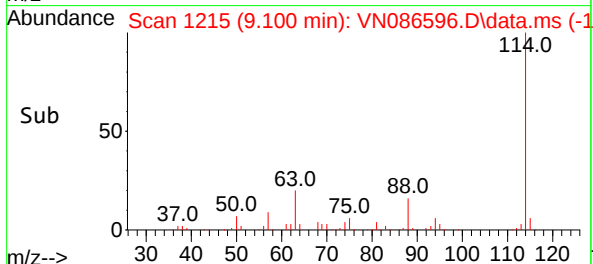
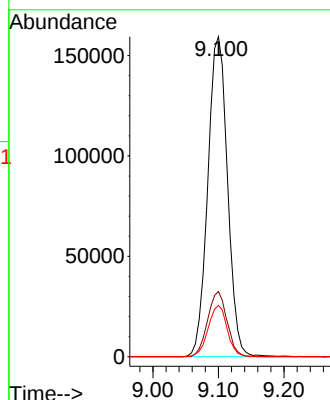
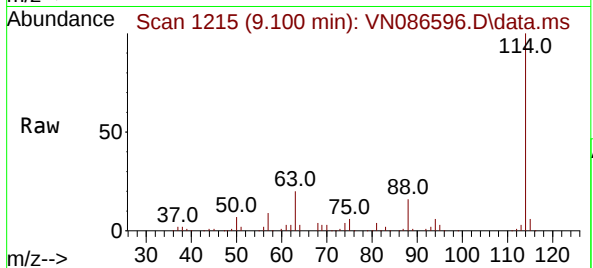
Tgt Ion:114 Resp: 333224

Ion Ratio Lower Upper

114 100

63 20.3 0.0 42.6

88 16.1 0.0 31.8



#35

Dibromofluoromethane

Concen: 63.117 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086596.D

Acq: 13 May 2025 12:58

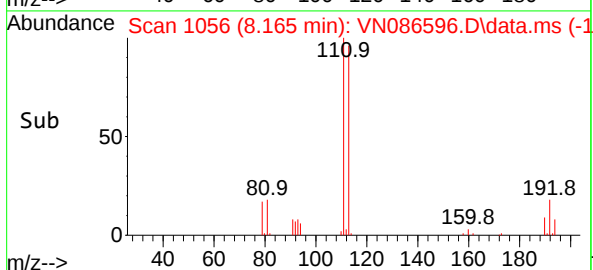
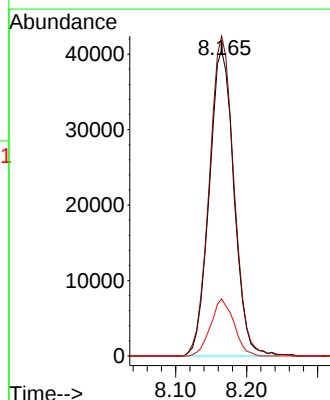
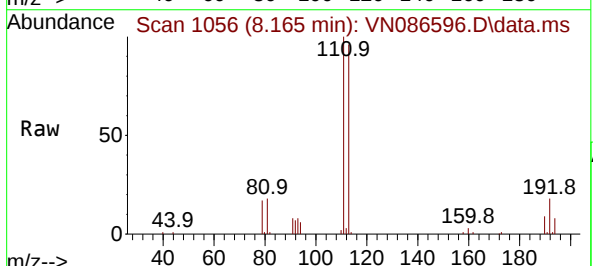
Tgt Ion:113 Resp: 97613

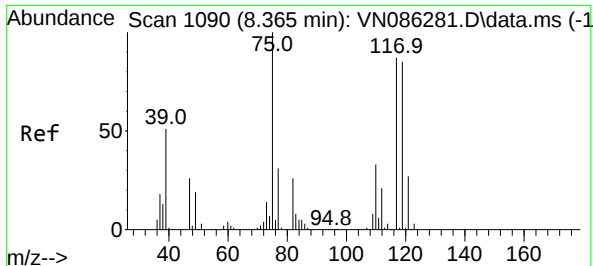
Ion Ratio Lower Upper

113 100

111 104.9 83.4 125.0

192 17.6 13.7 20.5





#36

1,1-Dichloropropene

Concen: 4.805 ug/l

RT: 8.218 min Scan# 1

Delta R.T. -0.147 min

Lab File: VN086596.D

Acq: 13 May 2025 12:58

Instrument :

MSVOA_N

ClientSampleId :

PB167932ZHE#15

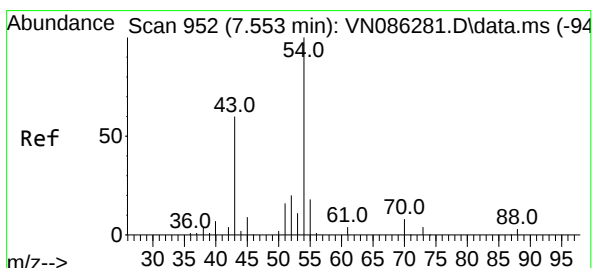
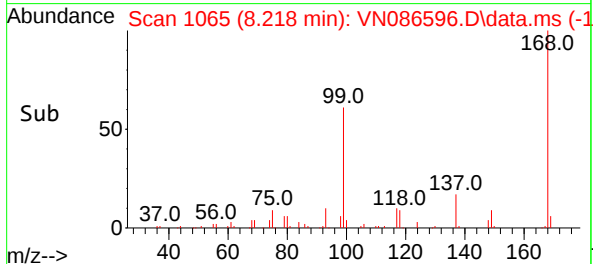
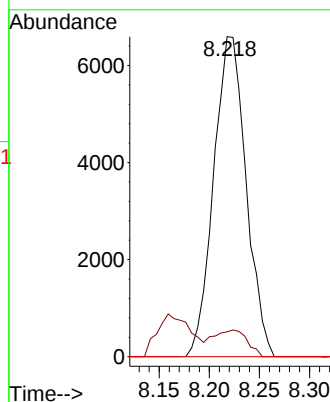
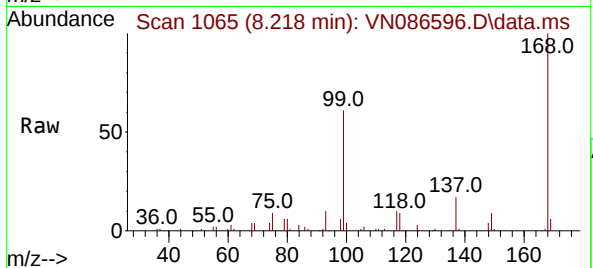
Tgt Ion: 75 Resp: 14842

Ion Ratio Lower Upper

75 100

110 8.8 16.8 50.4#

77 0.0 24.9 37.3#



#37

Ethyl Acetate

Concen: 0.221 ug/l

RT: 7.553 min Scan# 952

Delta R.T. -0.000 min

Lab File: VN086596.D

Acq: 13 May 2025 12:58

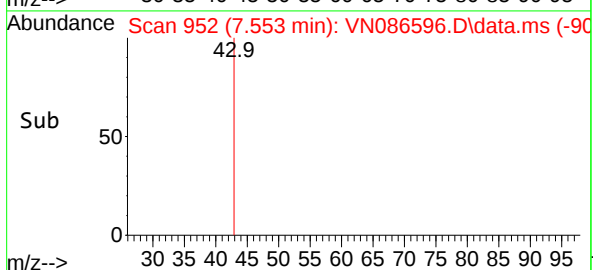
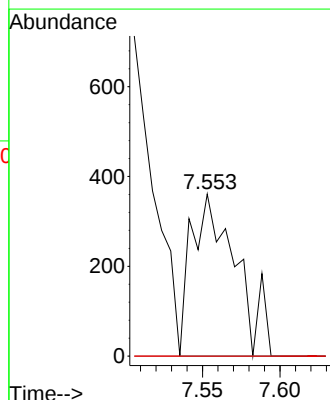
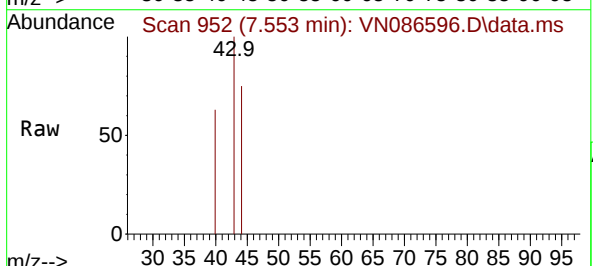
Tgt Ion: 43 Resp: 720

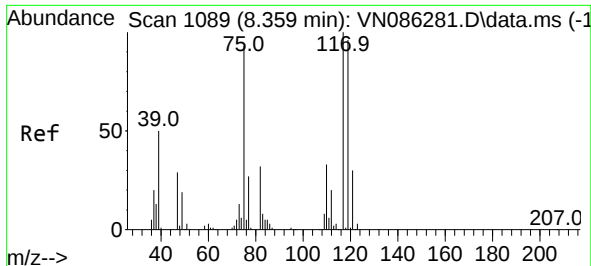
Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 9.2 13.8#

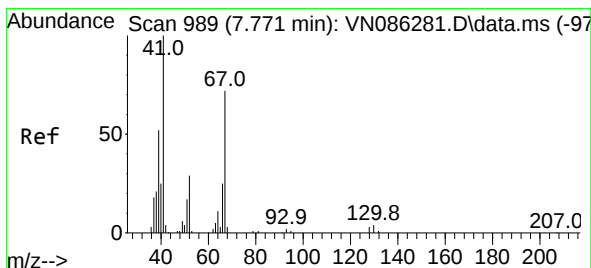
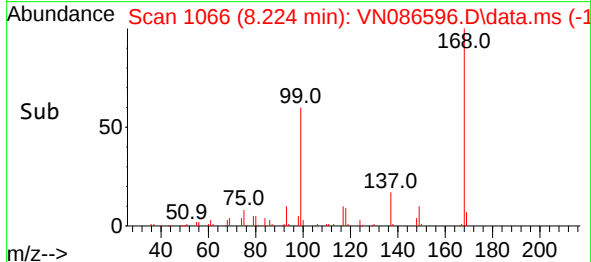
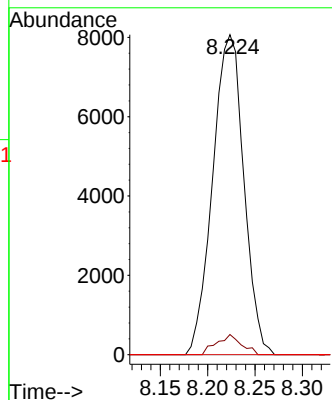
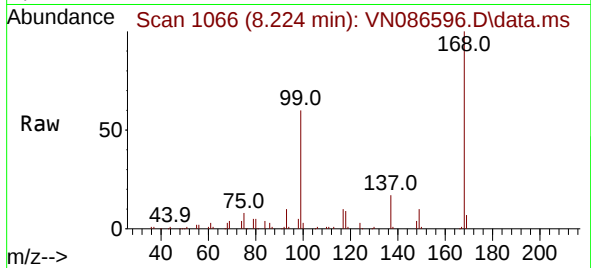




#38
Carbon Tetrachloride
Concen: 6.273 ug/l
RT: 8.224 min Scan# 1004
Delta R.T. -0.135 min
Lab File: VN086596.D
Acq: 13 May 2025 12:58

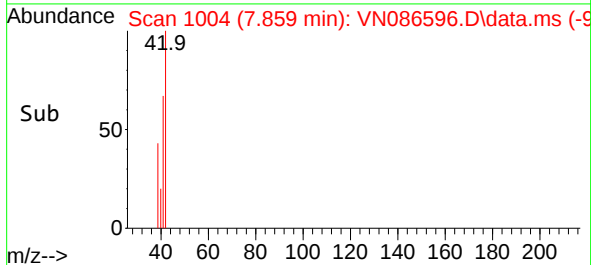
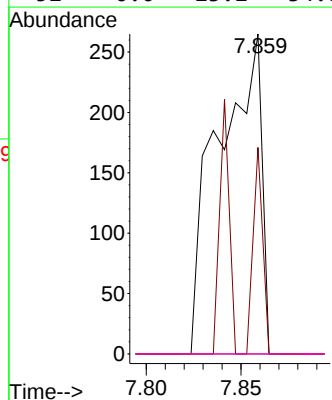
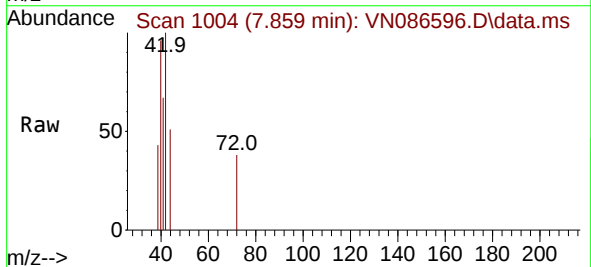
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#15

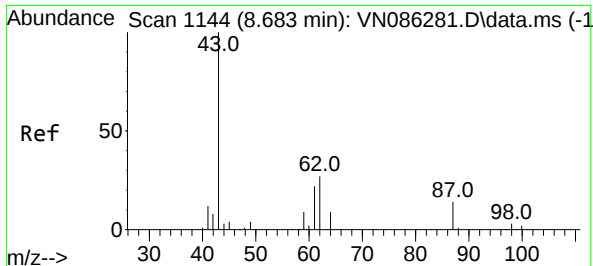
Tgt Ion: 117 Resp: 18454
Ion Ratio Lower Upper
117 100
119 6.3 76.8 115.2#
121 0.0 23.8 35.8#



#41
Methacrylonitrile
Concen: 0.223 ug/l
RT: 7.859 min Scan# 1004
Delta R.T. 0.088 min
Lab File: VN086596.D
Acq: 13 May 2025 12:58

Tgt Ion: 41 Resp: 420
Ion Ratio Lower Upper
41 100
39 14.3 43.0 64.4#
67 0.0 58.8 88.2#
52 0.0 23.2 34.8#

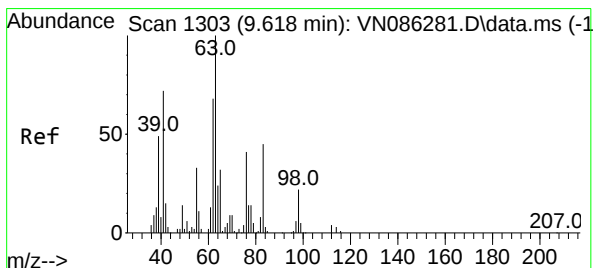
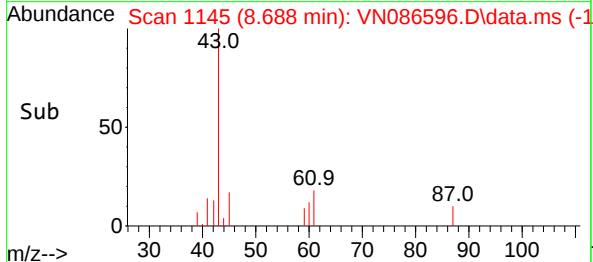
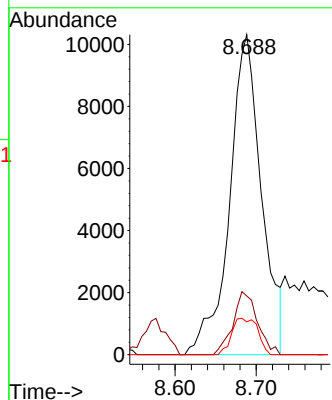
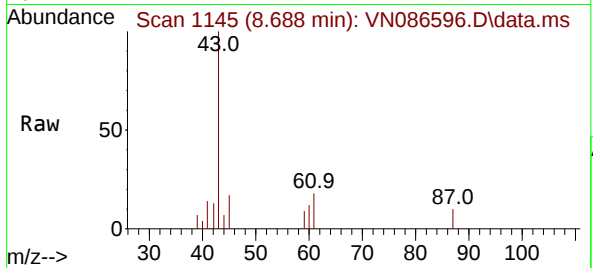




#43
Isopropyl Acetate
Concen: 3.019 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.005 min
Lab File: VN086596.D
Acq: 13 May 2025 12:58

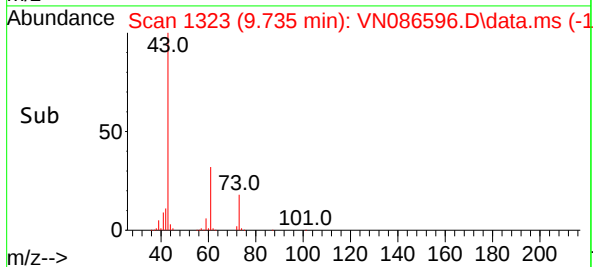
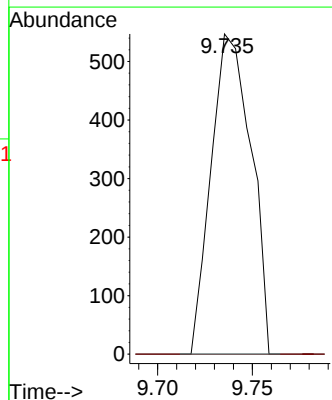
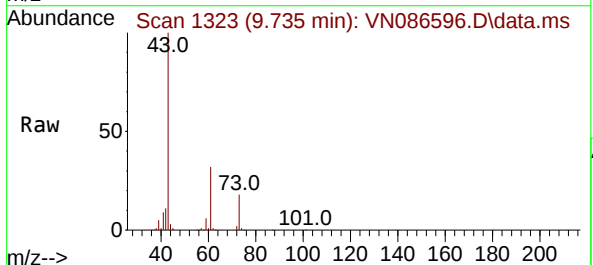
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#15

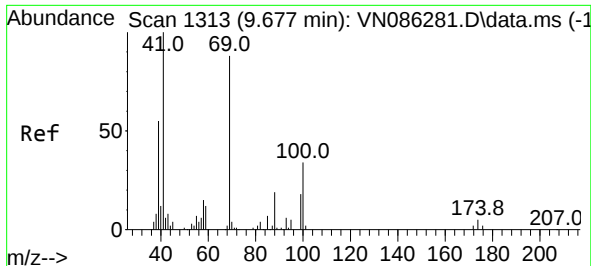
Tgt Ion: 43 Resp: 28170
Ion Ratio Lower Upper
43 100
61 15.1 20.5 30.7#
87 9.2 10.5 15.7#



#45
1,2-Dichloropropane
Concen: 0.331 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.117 min
Lab File: VN086596.D
Acq: 13 May 2025 12:58

Tgt Ion: 63 Resp: 803
Ion Ratio Lower Upper
63 100
65 0.0 25.4 38.2#

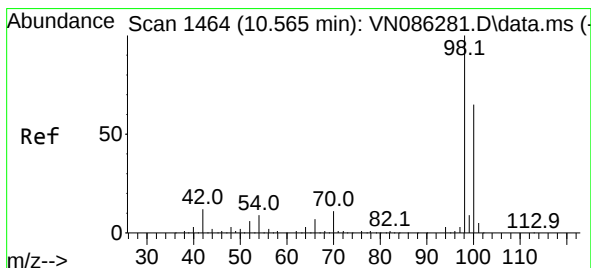
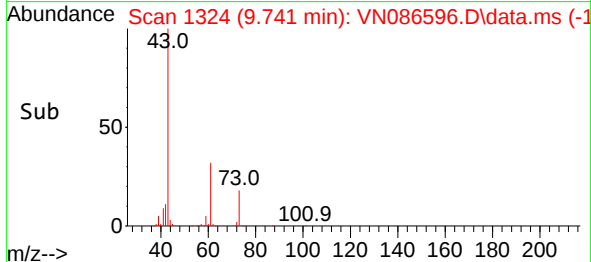
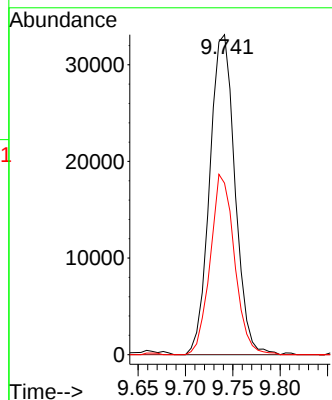
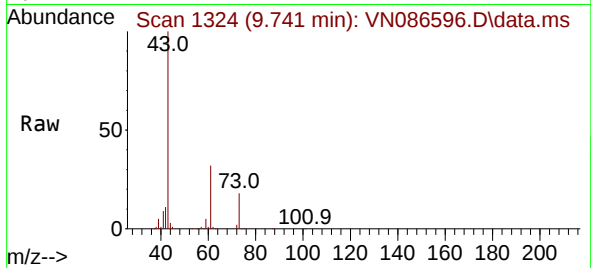




#48
Methyl methacrylate
Concen: 21.511 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.065 min
Lab File: VN086596.D
Acq: 13 May 2025 12:58

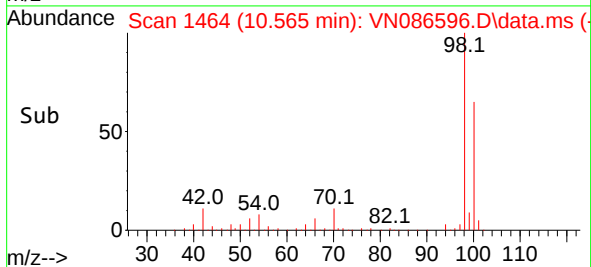
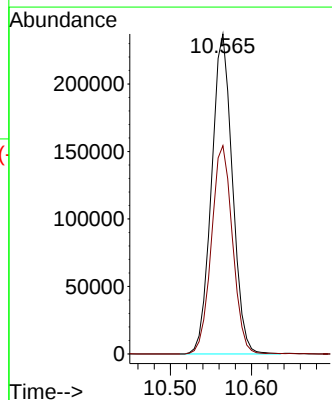
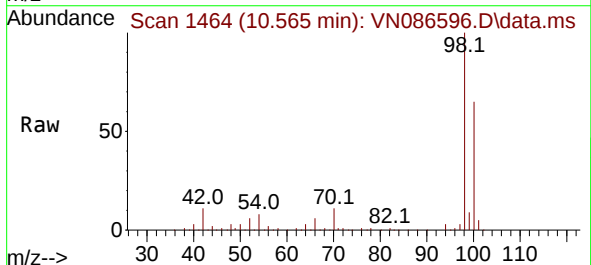
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#15

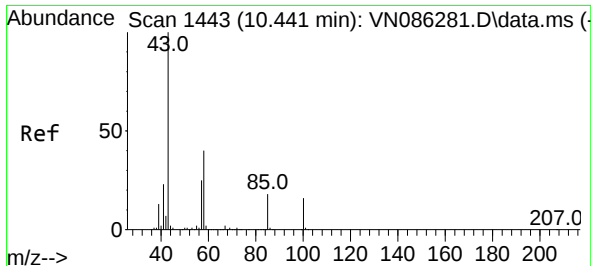
Tgt Ion: 41 Resp: 61432
Ion Ratio Lower Upper
41 100
69 0.0 68.2 102.2#
39 54.3 45.2 67.8



#50
Toluene-d8
Concen: 51.164 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086596.D
Acq: 13 May 2025 12:58

Tgt Ion: 98 Resp: 422891
Ion Ratio Lower Upper
98 100
100 65.9 52.5 78.7

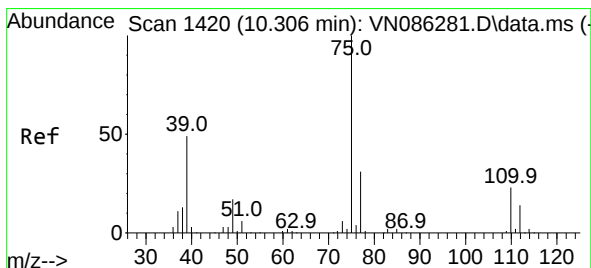
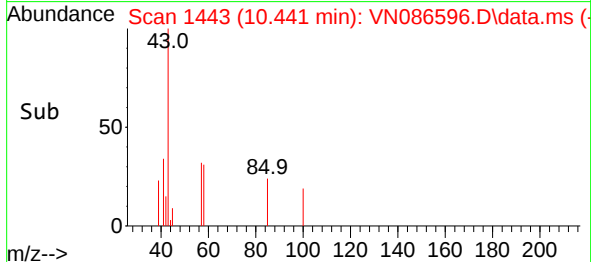
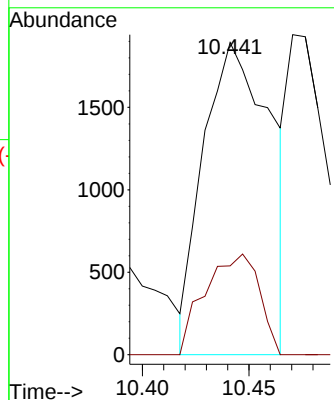
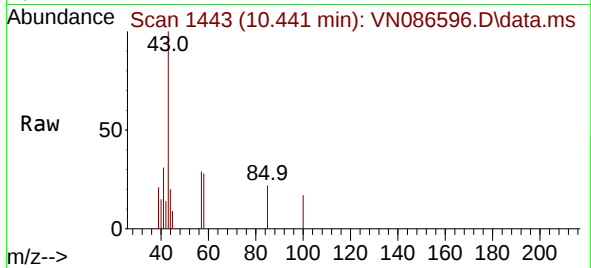




#51
4-Methyl-2-Pentanone
Concen: 1.245 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086596.D
Acq: 13 May 2025 12:58

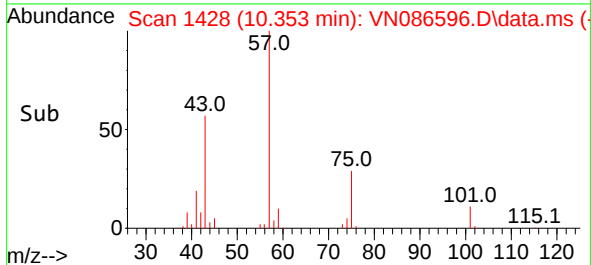
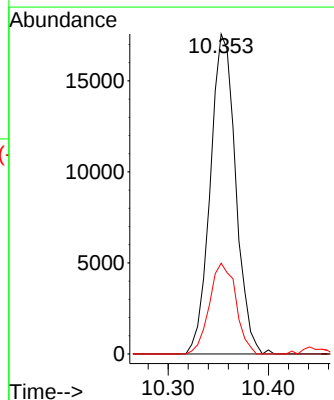
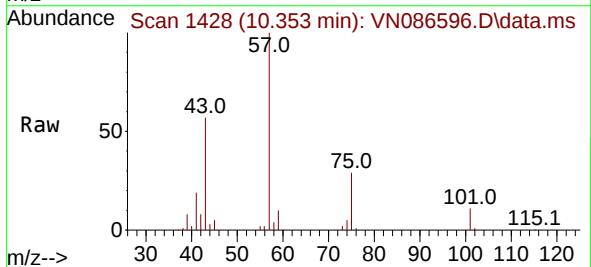
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#15

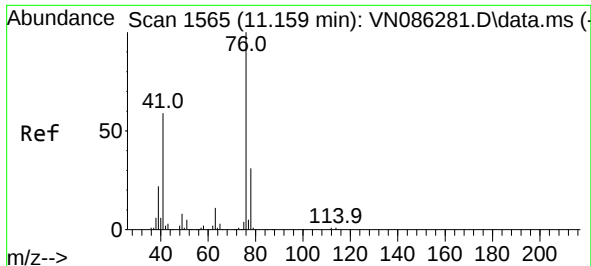
Tgt Ion: 43 Resp: 4147
Ion Ratio Lower Upper
43 100
58 26.1 32.2 48.4#



#54
cis-1,3-Dichloropropene
Concen: 7.560 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN086596.D
Acq: 13 May 2025 12:58

Tgt Ion: 75 Resp: 30900
Ion Ratio Lower Upper
75 100
77 0.0 25.2 37.8#
39 28.4 39.3 58.9#





#57

1,3-Dichloropropane

Concen: 0.726 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN086596.D

Acq: 13 May 2025 12:58

Instrument :

MSVOA_N

ClientSampleId :

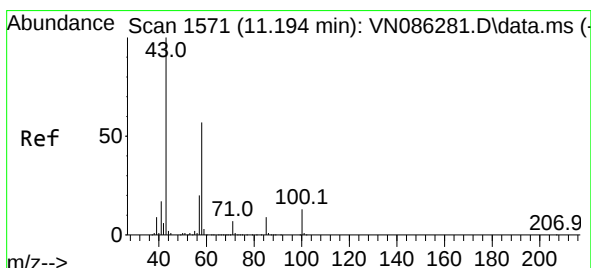
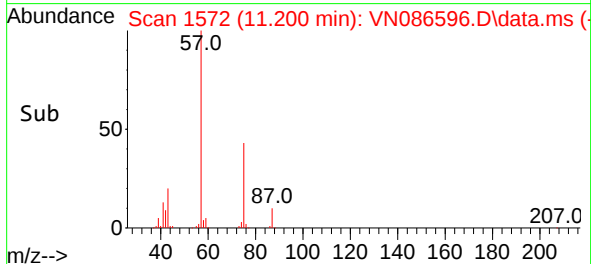
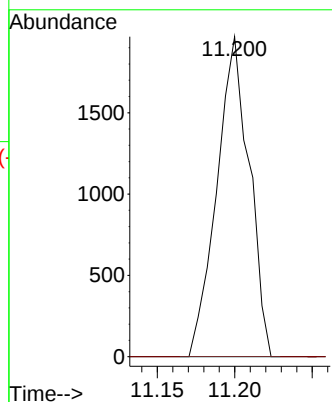
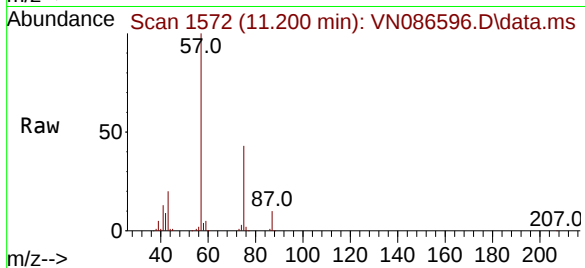
PB167932ZHE#15

Tgt Ion: 76 Resp: 2863

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 21.001 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086596.D

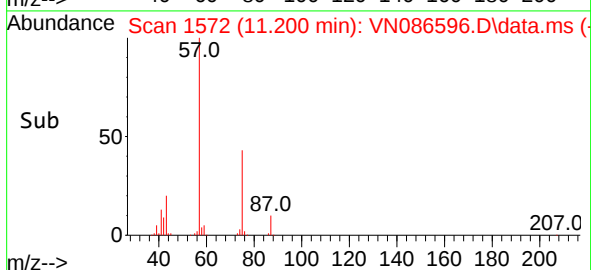
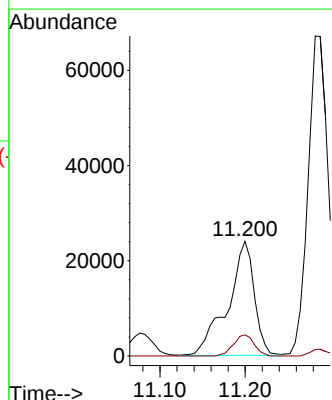
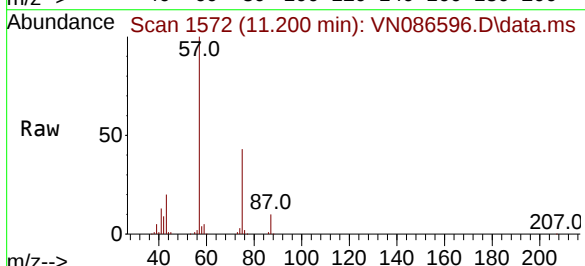
Acq: 13 May 2025 12:58

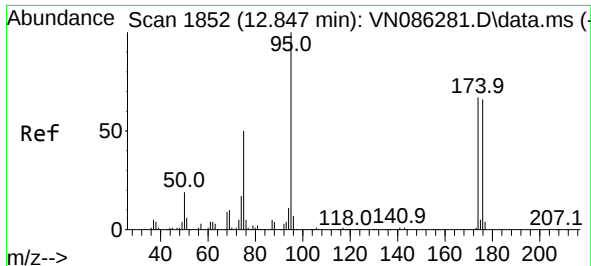
Tgt Ion: 43 Resp: 51873

Ion Ratio Lower Upper

43 100

58 14.4 28.3 85.0#

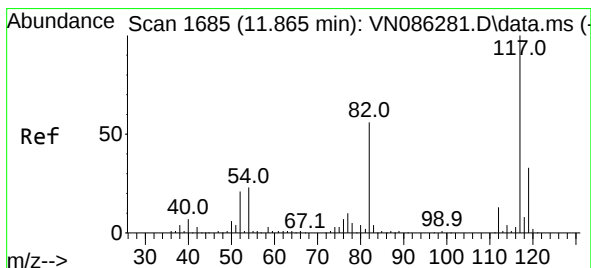
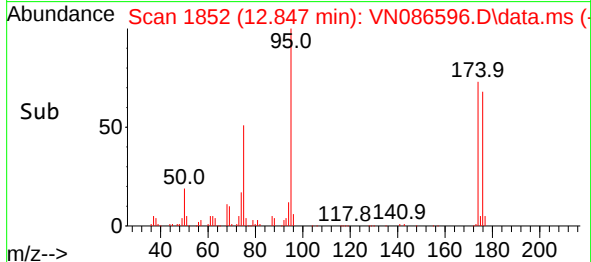
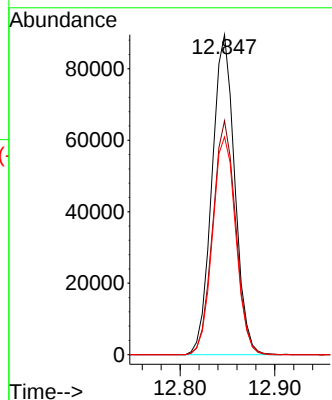
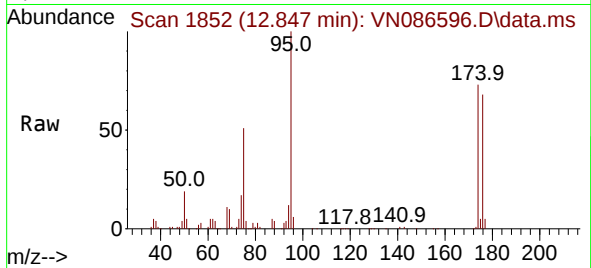




#62
4-Bromofluorobenzene
Concen: 49.481 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086596.D
Acq: 13 May 2025 12:58

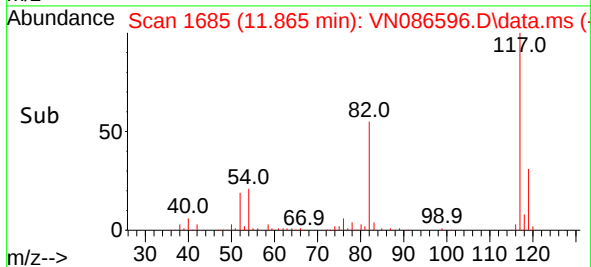
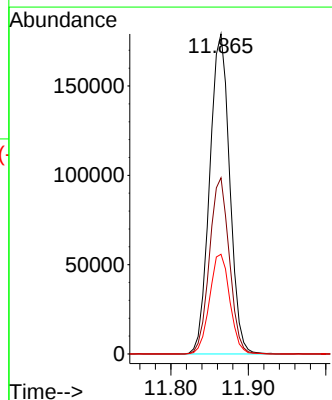
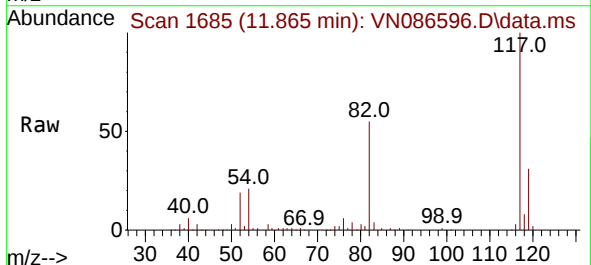
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#15

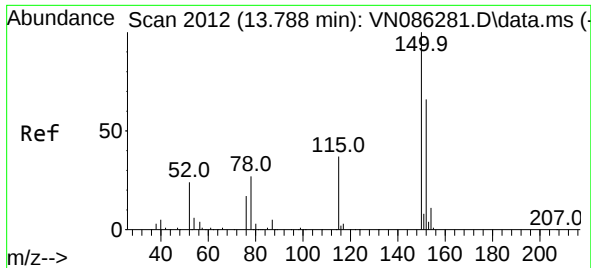
Tgt Ion: 95 Resp: 149174
Ion Ratio Lower Upper
95 100
174 73.7 0.0 133.4
176 69.9 0.0 129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086596.D
Acq: 13 May 2025 12:58

Tgt Ion: 117 Resp: 321110
Ion Ratio Lower Upper
117 100
82 55.1 44.7 67.1
119 31.2 26.4 39.6

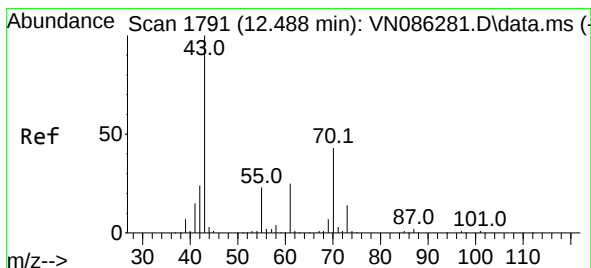
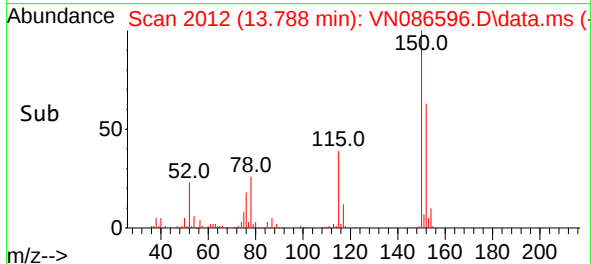
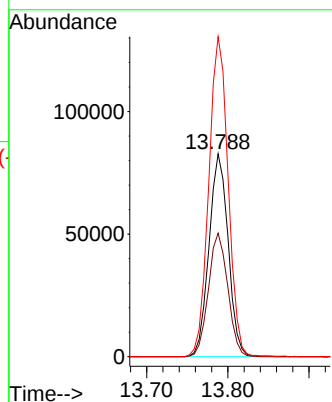
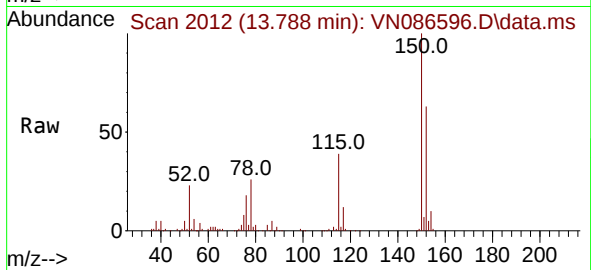




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN086596.D
 Acq: 13 May 2025 12:58

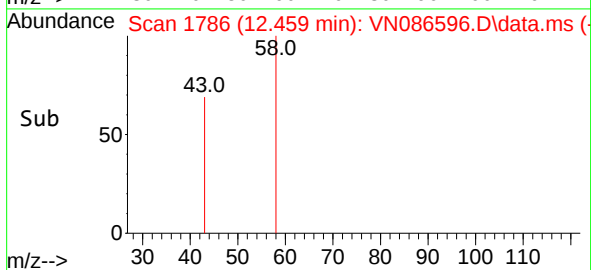
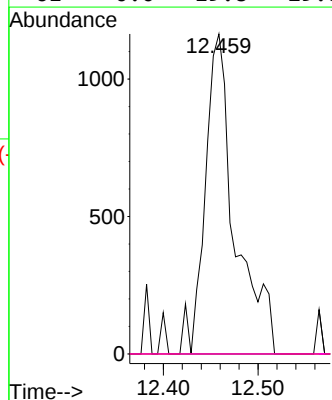
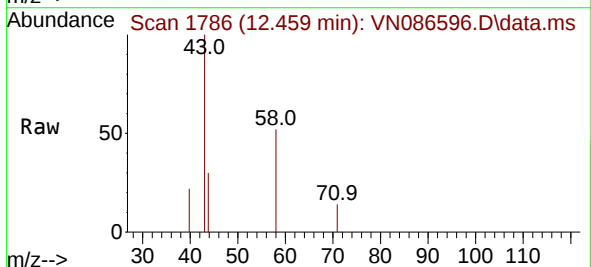
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167932ZHE#15

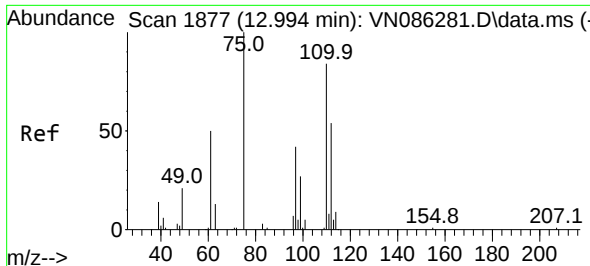
Tgt Ion:152 Resp: 135652
 Ion Ratio Lower Upper
 152 100
 115 61.4 31.9 95.9
 150 158.9 0.0 352.0



#74
 N-ethyl acetate
 Concen: 0.463 ug/l
 RT: 12.459 min Scan# 1786
 Delta R.T. -0.030 min
 Lab File: VN086596.D
 Acq: 13 May 2025 12:58

Tgt Ion: 43 Resp: 2560
 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#

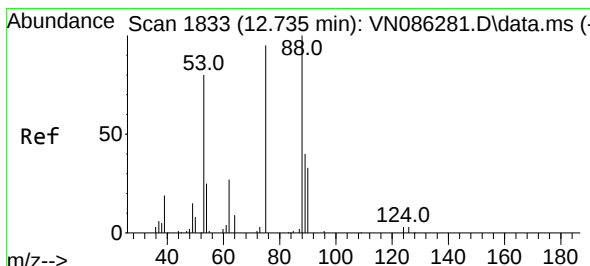
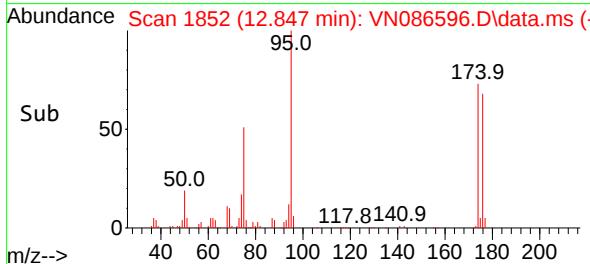
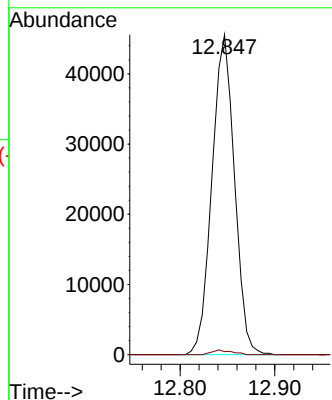
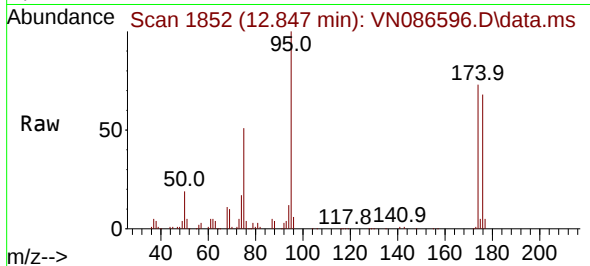




#76
1,2,3-Trichloropropane
Concen: 23.514 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086596.D
Acq: 13 May 2025 12:58

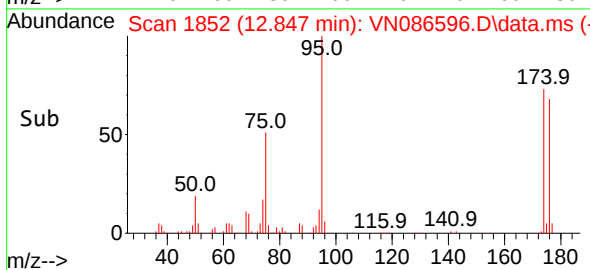
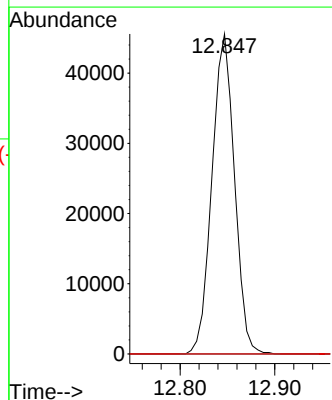
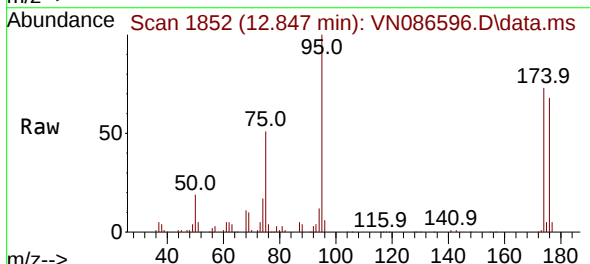
Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#15

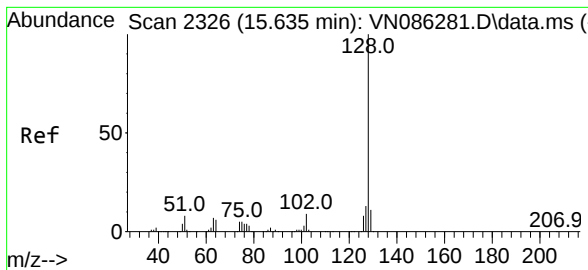
Tgt Ion: 75 Resp: 75274
Ion Ratio Lower Upper
75 100
77 1.3 98.8 296.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 56.473 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086596.D
Acq: 13 May 2025 12:58

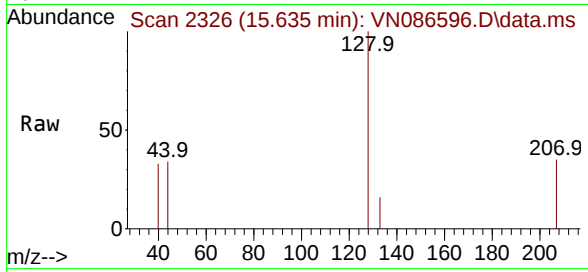
Tgt Ion: 75 Resp: 75274
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#





#95
Naphthalene
Concen: 0.206 ug/l
RT: 15.635 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN086596.D
Acq: 13 May 2025 12:58

Instrument :
MSVOA_N
ClientSampleId :
PB167932ZHE#15



Tgt Ion:	128	Resp:	1569
Ion	Ratio	Lower	Upper
128	100		
127	3.4	10.2	15.4#
129	0.0	8.6	13.0#

