

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051325\
 Data File : VN086610.D
 Acq On : 13 May 2025 18:37
 Operator : JC\MD
 Sample : PB167964ZHE#08
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167964ZHE#08

Quant Time: May 14 01:49:29 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)

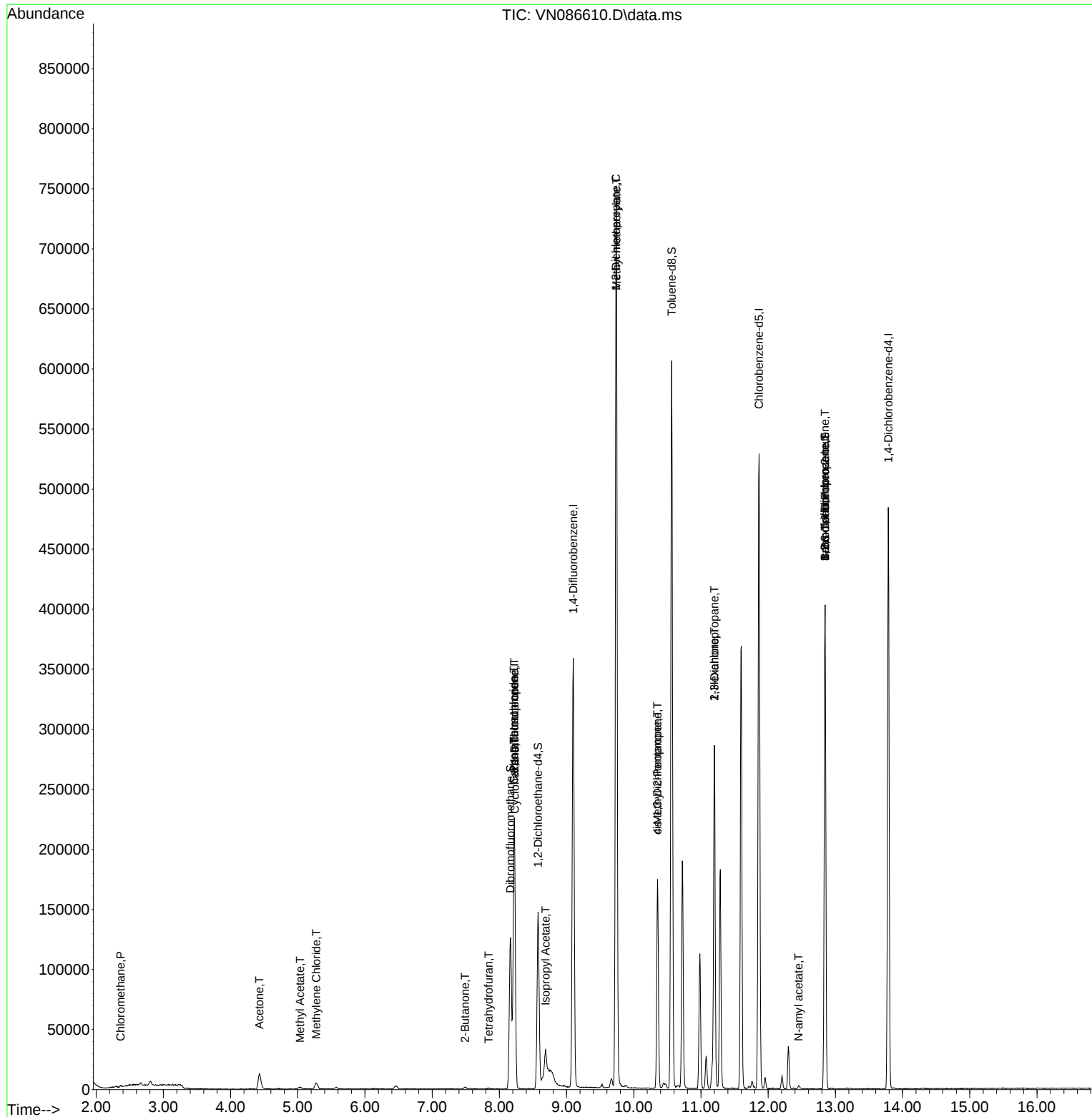
Internal Standards						
1) Pentafluorobenzene	8.224	168	165900	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	317142	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	312516	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	128863	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	119475	49.663	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.320%		
35) Dibromofluoromethane	8.165	113	94017	63.875	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	127.740%#		
50) Toluene-d8	10.565	98	416200	52.908	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	105.820%		
62) 4-Bromofluorobenzene	12.847	95	143840	50.131	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	100.260%		
Target Compounds					Qvalue	
3) Chloromethane	2.365	50	591	0.207	ug/l	96
16) Acetone	4.430	43	25202	25.168	ug/l	90
18) Methyl Acetate	5.036	43	3651	1.264	ug/l #	84
20) Methylene Chloride	5.277	84	4119	1.852	ug/l #	89
25) 2-Butanone	7.488	43	3078	2.056	ug/l	95
29) Tetrahydrofuran	7.841	42	542	0.541	ug/l #	32
31) Cyclohexane	8.229	56	3774	0.968	ug/l #	39
36) 1,1-Dichloropropene	8.224	75	13442	4.572	ug/l #	50
38) Carbon Tetrachloride	8.218	117	17075	6.099	ug/l #	15
43) Isopropyl Acetate	8.688	43	52803	7.784	ug/l #	71
45) 1,2-Dichloropropane	9.735	63	904	0.392	ug/l #	43
48) Methyl methacrylate	9.741	41	66510	24.470	ug/l #	43
51) 4-Methyl-2-Pentanone	10.353	43	62258	19.644	ug/l #	46
54) cis-1,3-Dichloropropene	10.353	75	32440	8.339	ug/l #	60
57) 1,3-Dichloropropane	11.200	76	2987	0.796	ug/l #	43
59) 2-Hexanone	11.200	43	53327	22.684	ug/l #	43
71) Bromoform	12.847	173	914	0.528	ug/l #	1
74) N-amyl acetate	12.453	43	2971	0.566	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	72732	23.917	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	72732	57.441	ug/l #	10

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051325\
Data File : VN086610.D
Acq On : 13 May 2025 18:37
Operator : JC\MD
Sample : PB167964ZHE#08
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 22 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#08

Quant Time: May 14 01:49:29 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

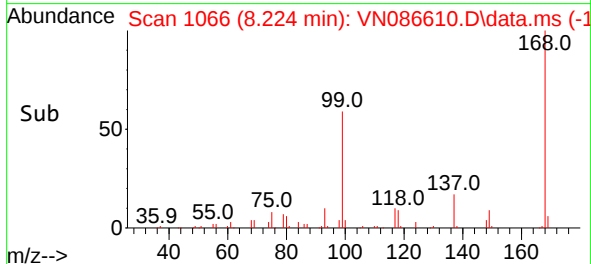
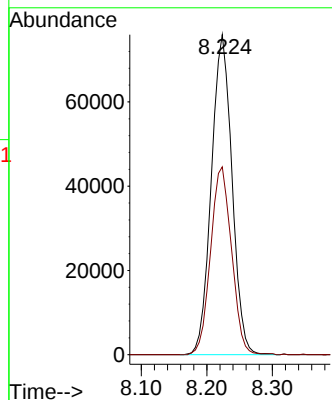
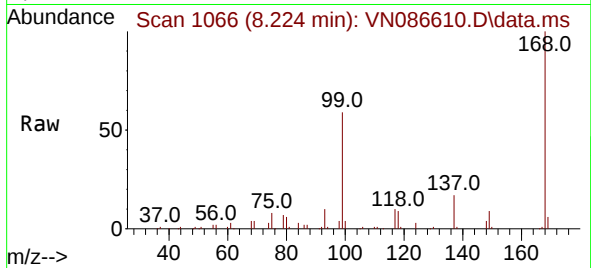




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN086610.D
Acq: 13 May 2025 18:37

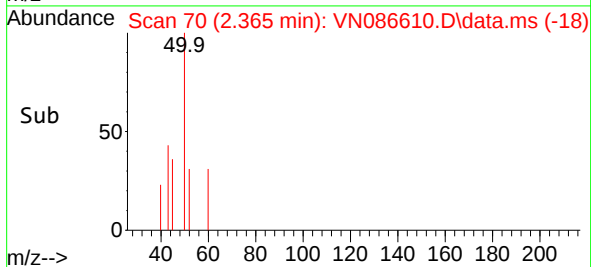
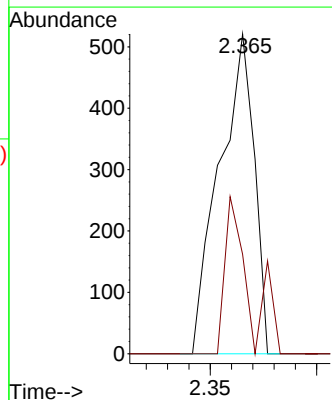
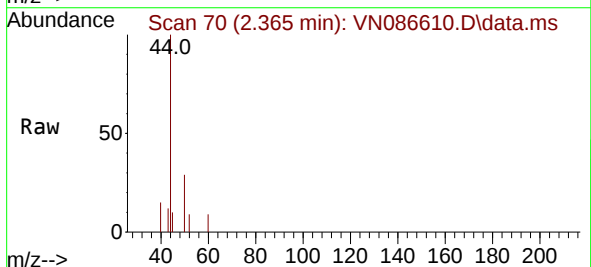
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#08

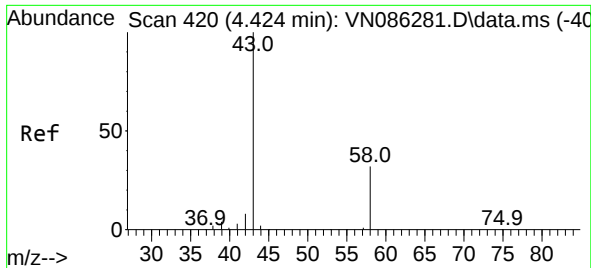
Tgt Ion:168 Resp: 165900
Ion Ratio Lower Upper
168 100
99 58.7 52.5 78.7



#3
Chloromethane
Concen: 0.207 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086610.D
Acq: 13 May 2025 18:37

Tgt Ion: 50 Resp: 591
Ion Ratio Lower Upper
50 100
52 31.1 26.5 39.7

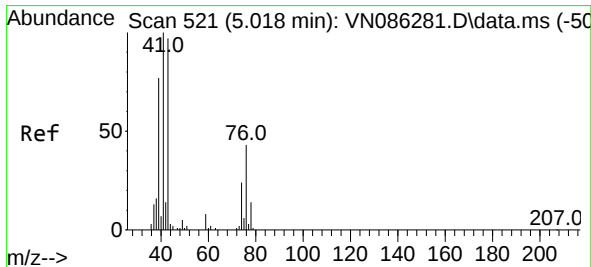
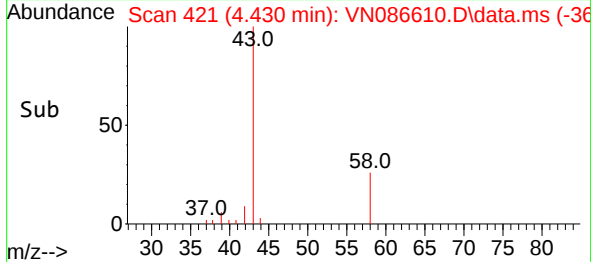
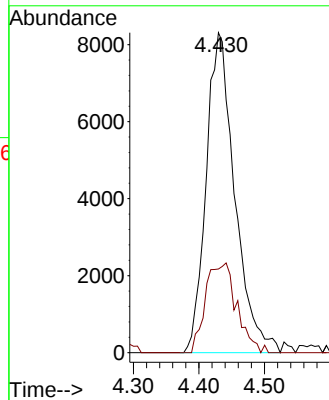
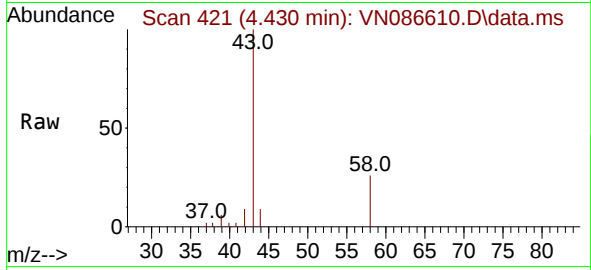




#16
Acetone
Concen: 25.168 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086610.D
Acq: 13 May 2025 18:37

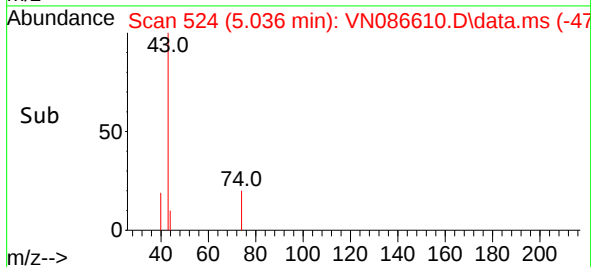
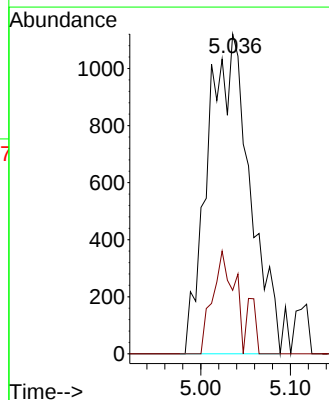
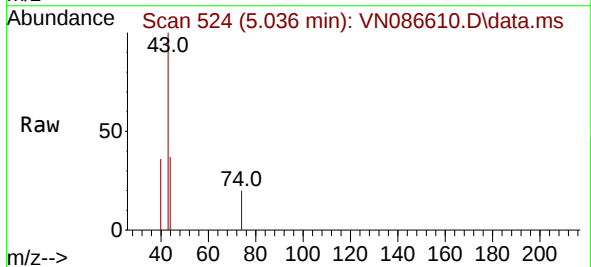
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#08

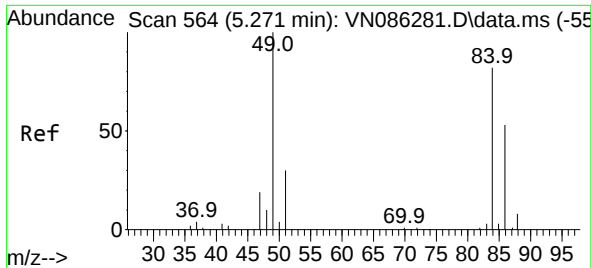
Tgt Ion: 43 Resp: 25202
Ion Ratio Lower Upper
43 100
58 26.2 25.3 37.9



#18
Methyl Acetate
Concen: 1.264 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.018 min
Lab File: VN086610.D
Acq: 13 May 2025 18:37

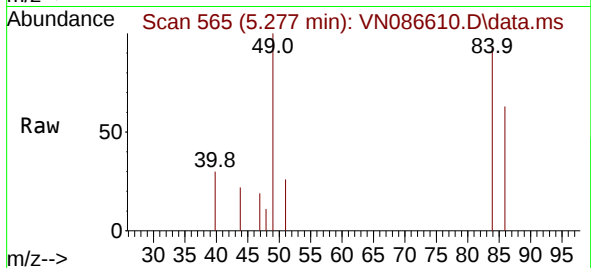
Tgt Ion: 43 Resp: 3651
Ion Ratio Lower Upper
43 100
74 16.5 19.8 29.6#



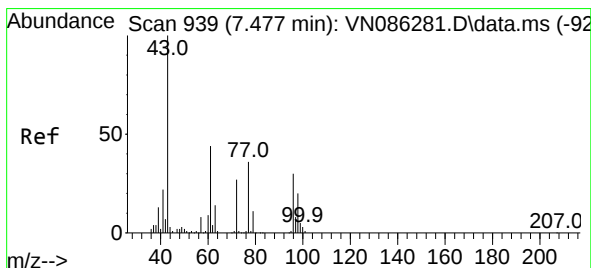
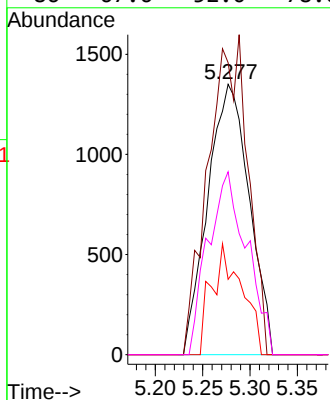


#20
Methylene Chloride
Concen: 1.852 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086610.D
Acq: 13 May 2025 18:37

Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#08

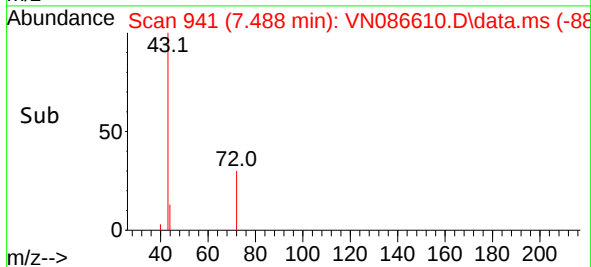
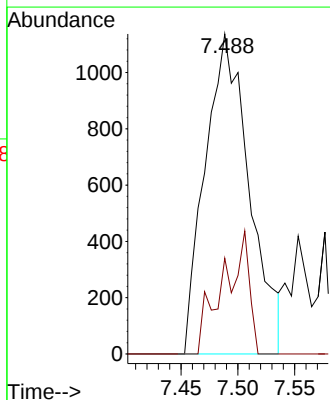
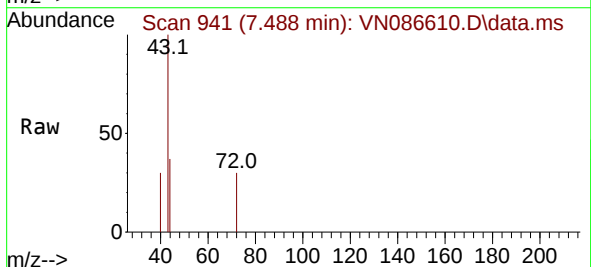


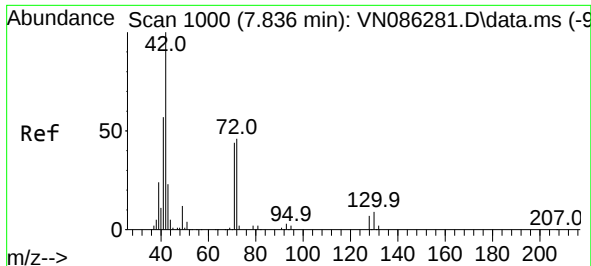
Tgt Ion:	84	Resp:	4119
Ion	Ratio	Lower	Upper
84	100		
49	108.0	98.2	147.2
51	27.9	29.8	44.6#
86	67.6	52.0	78.0



#25
2-Butanone
Concen: 2.056 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086610.D
Acq: 13 May 2025 18:37

Tgt Ion:	43	Resp:	3078
Ion	Ratio	Lower	Upper
43	100		
72	29.9	21.7	32.5





#29

Tetrahydrofuran

Concen: 0.541 ug/l

RT: 7.841 min Scan# 1067

Delta R.T. 0.006 min

Lab File: VN086610.D

Acq: 13 May 2025 18:37

Instrument :

MSVOA_N

ClientSampleId :

PB167964ZHE#08

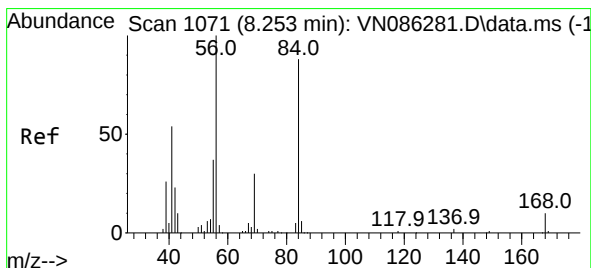
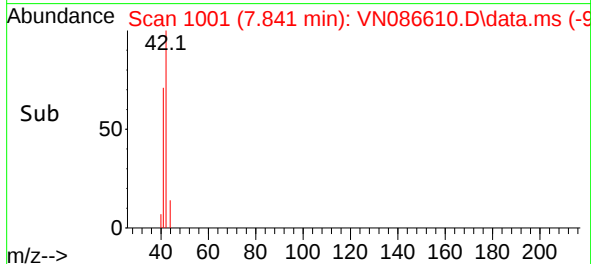
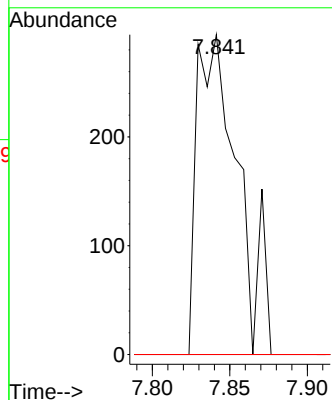
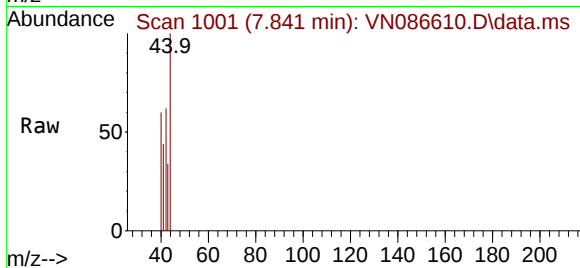
Tgt Ion: 42 Resp: 542

Ion Ratio Lower Upper

42 100

72 0.0 36.2 54.4#

71 0.0 34.0 51.0#



#31

Cyclohexane

Concen: 0.968 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.024 min

Lab File: VN086610.D

Acq: 13 May 2025 18:37

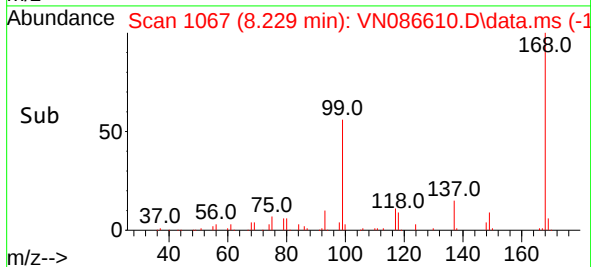
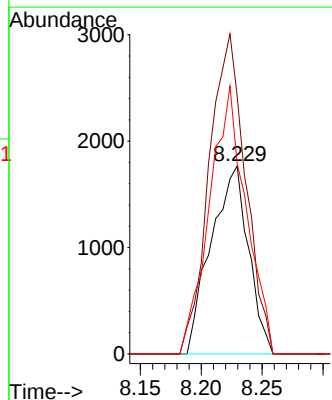
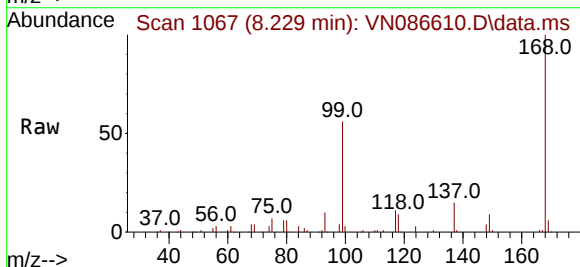
Tgt Ion: 56 Resp: 3774

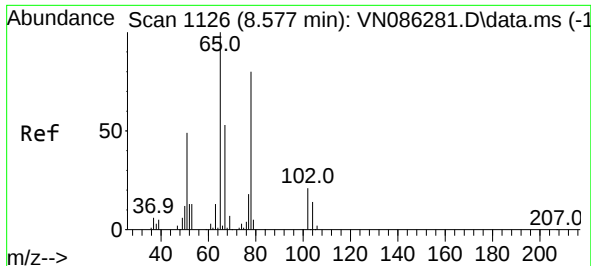
Ion Ratio Lower Upper

56 100

69 137.3 24.2 36.2#

84 101.2 70.3 105.5

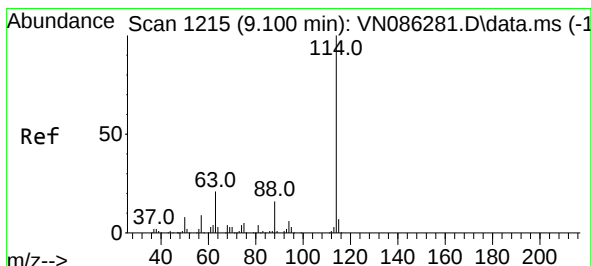
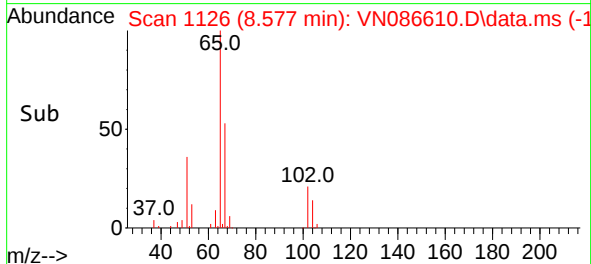
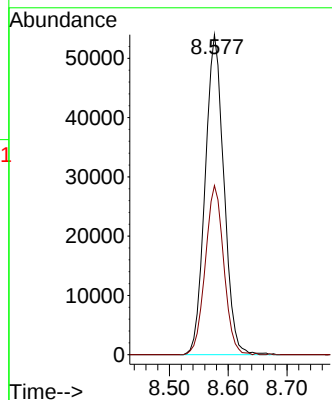
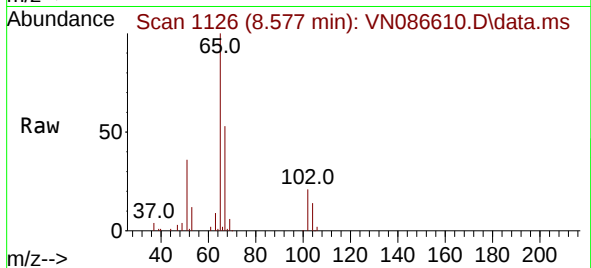




#33
 1,2-Dichloroethane-d4
 Concen: 49.663 ug/l
 RT: 8.577 min Scan# 1126
 Delta R.T. -0.000 min
 Lab File: VN086610.D
 Acq: 13 May 2025 18:37

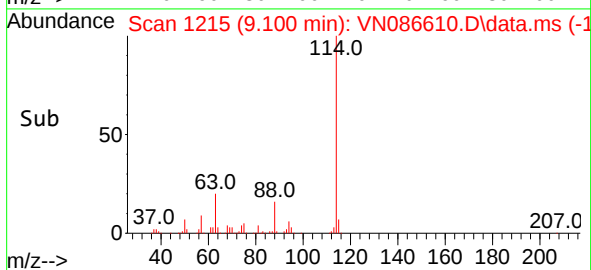
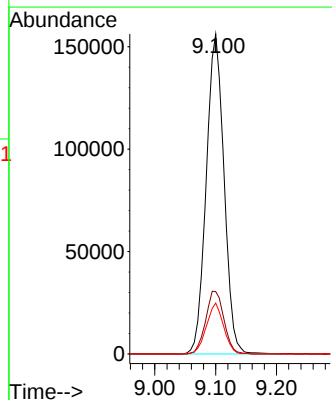
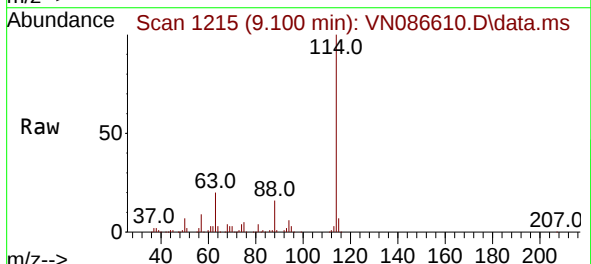
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167964ZHE#08

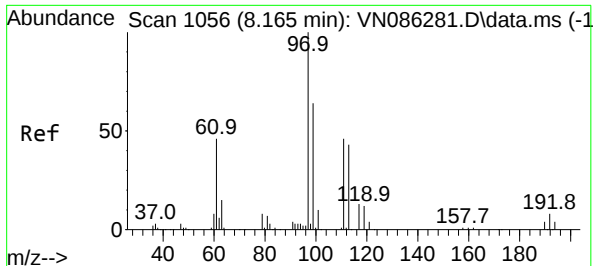
Tgt Ion: 65 Resp: 119475
 Ion Ratio Lower Upper
 65 100
 67 52.2 0.0 106.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.100 min Scan# 1215
 Delta R.T. -0.000 min
 Lab File: VN086610.D
 Acq: 13 May 2025 18:37

Tgt Ion: 114 Resp: 317142
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 42.6
 88 15.9 0.0 31.8





#35

Dibromofluoromethane

Concen: 63.875 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086610.D

Acq: 13 May 2025 18:37

Instrument :

MSVOA_N

ClientSampleId :

PB167964ZHE#08

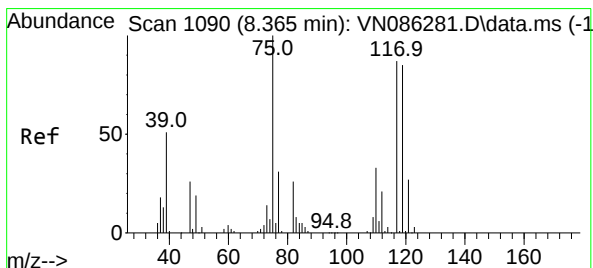
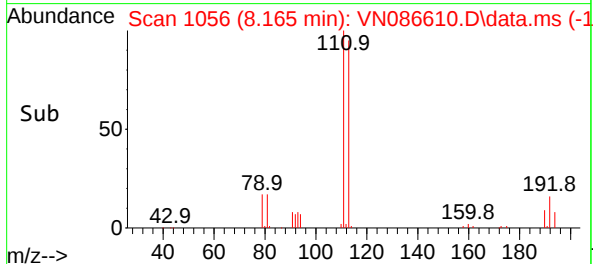
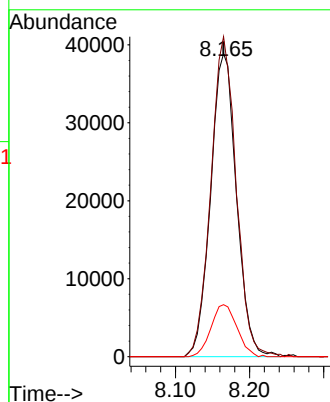
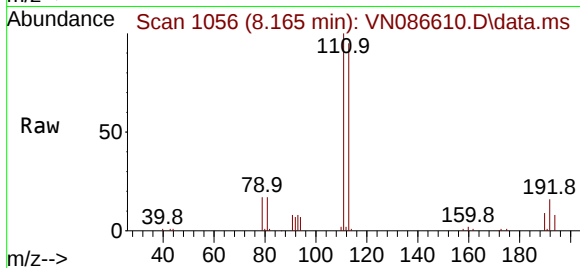
Tgt Ion:113 Resp: 94017

Ion Ratio Lower Upper

113 100

111 103.7 83.4 125.0

192 17.3 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.572 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN086610.D

Acq: 13 May 2025 18:37

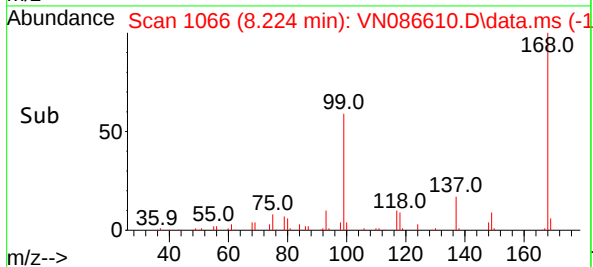
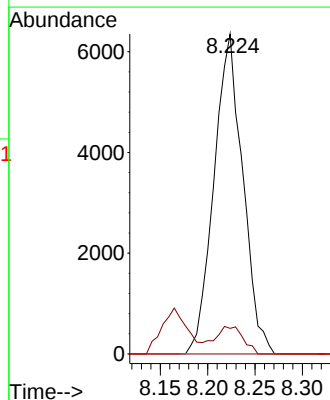
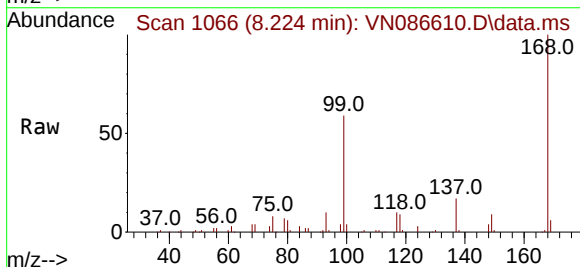
Tgt Ion: 75 Resp: 13442

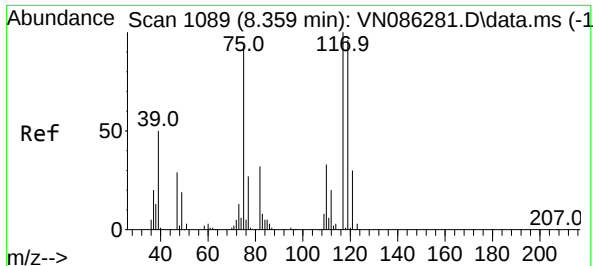
Ion Ratio Lower Upper

75 100

110 8.4 16.8 50.4#

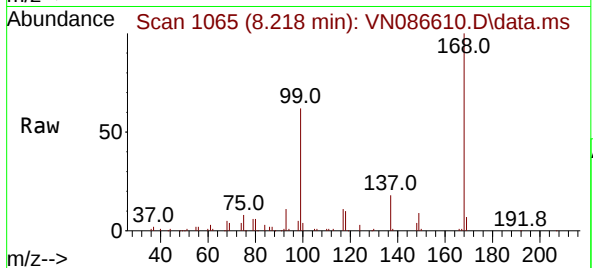
77 0.0 24.9 37.3#



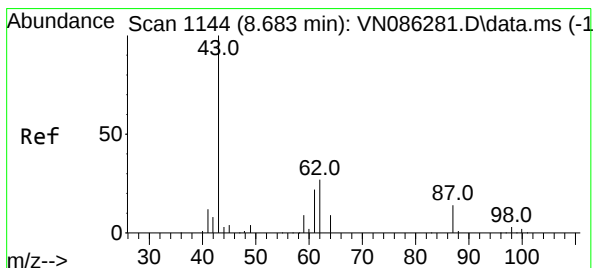
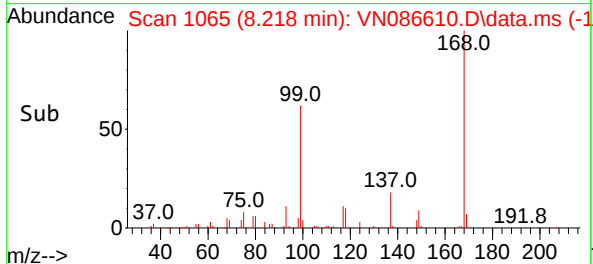
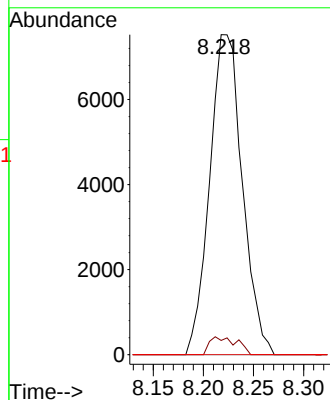


#38
Carbon Tetrachloride
Concen: 6.099 ug/l
RT: 8.218 min Scan# 1105
Delta R.T. -0.141 min
Lab File: VN086610.D
Acq: 13 May 2025 18:37

Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#08

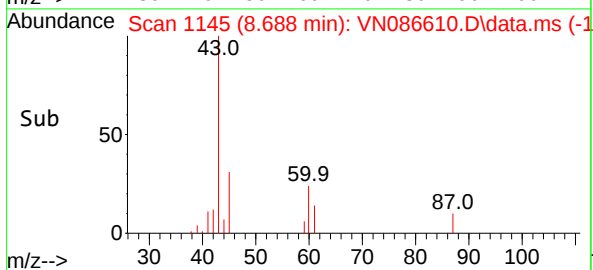
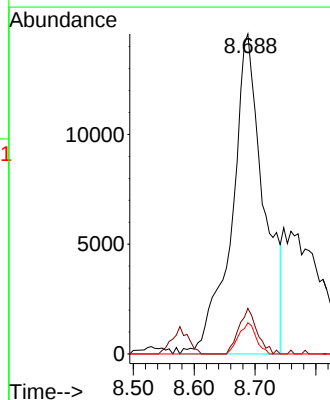
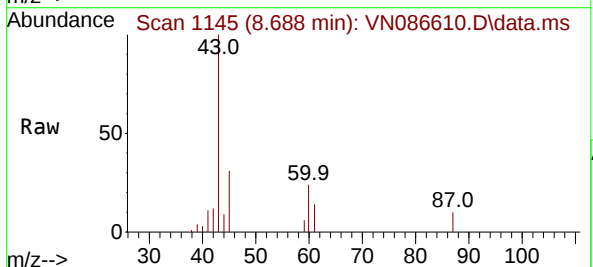


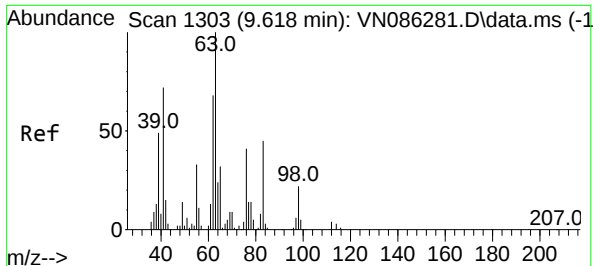
Tgt Ion:117 Resp: 17075
Ion Ratio Lower Upper
117 100
119 4.5 76.8 115.2#
121 0.0 23.8 35.8#



#43
Isopropyl Acetate
Concen: 7.784 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.005 min
Lab File: VN086610.D
Acq: 13 May 2025 18:37

Tgt Ion: 43 Resp: 52803
Ion Ratio Lower Upper
43 100
61 8.2 20.5 30.7#
87 5.3 10.5 15.7#





#45

1,2-Dichloropropane

Concen: 0.392 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.118 min

Lab File: VN086610.D

Acq: 13 May 2025 18:37

Instrument :

MSVOA_N

ClientSampleId :

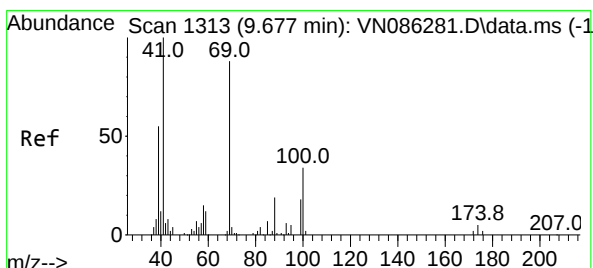
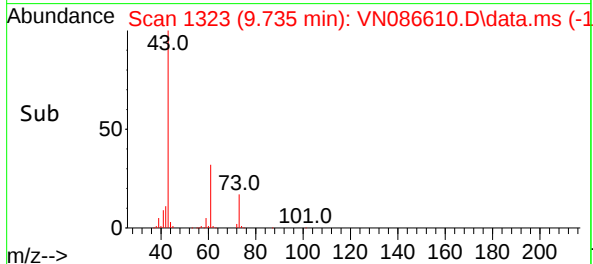
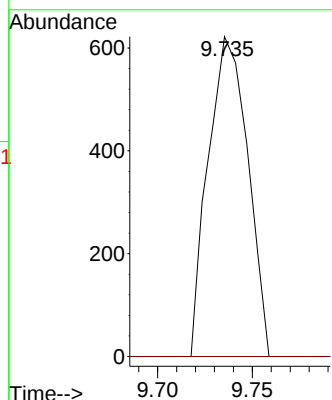
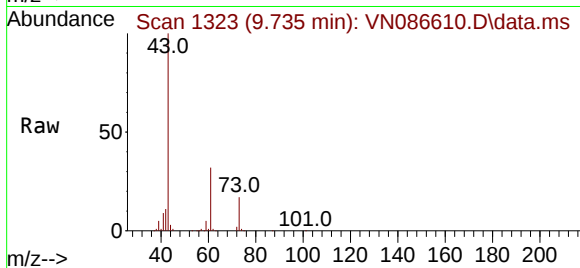
PB167964ZHE#08

Tgt Ion: 63 Resp: 904

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.2#



#48

Methyl methacrylate

Concen: 24.470 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.065 min

Lab File: VN086610.D

Acq: 13 May 2025 18:37

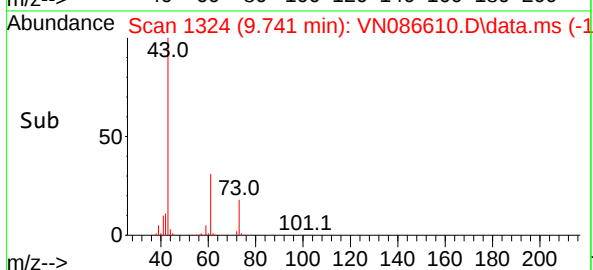
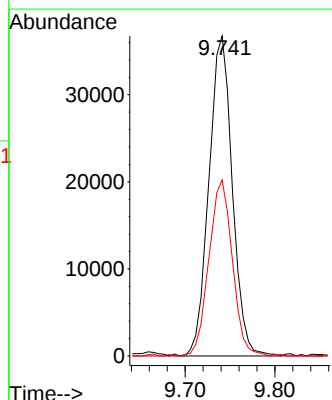
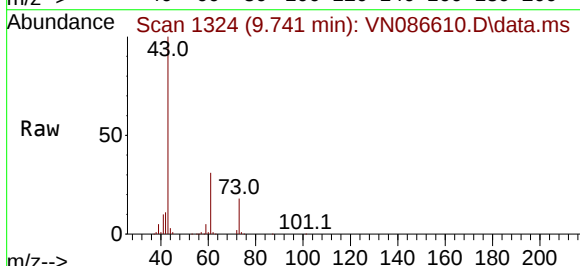
Tgt Ion: 41 Resp: 66510

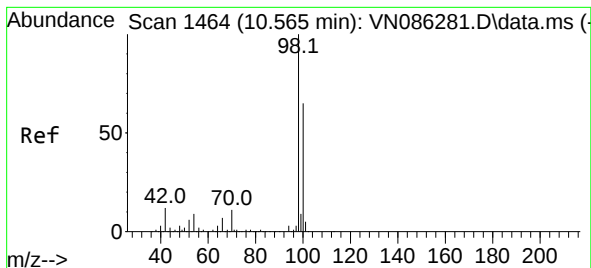
Ion Ratio Lower Upper

41 100

69 0.0 68.2 102.2#

39 55.0 45.2 67.8

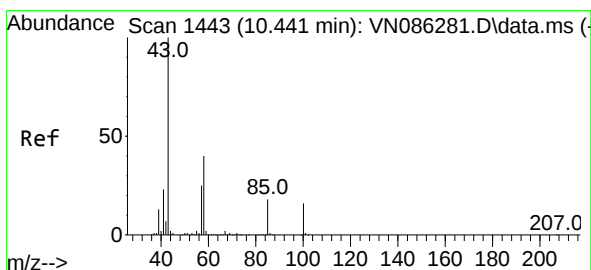
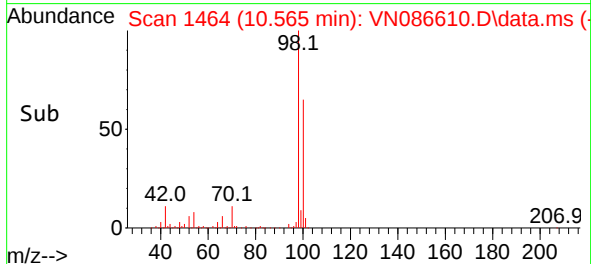
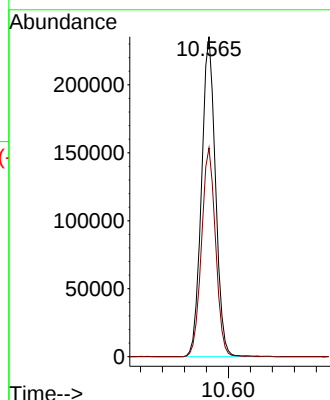
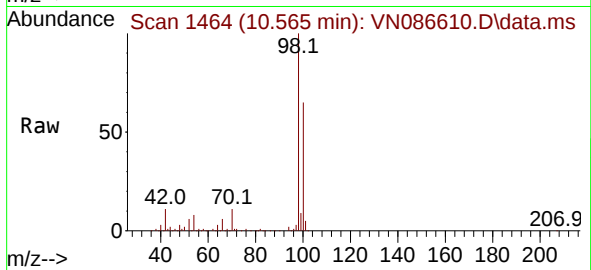




#50
Toluene-d8
Concen: 52.908 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086610.D
Acq: 13 May 2025 18:37

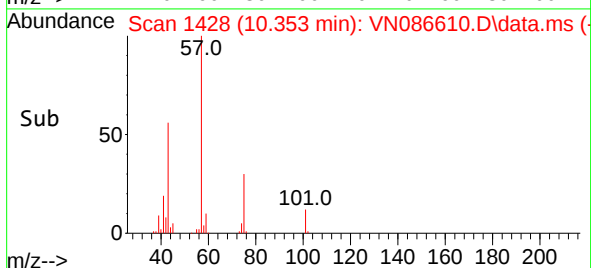
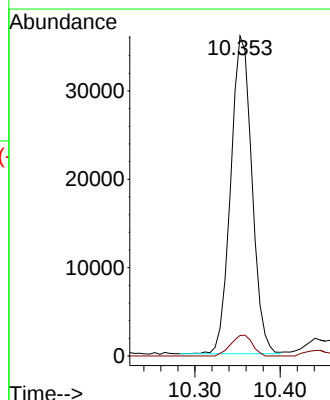
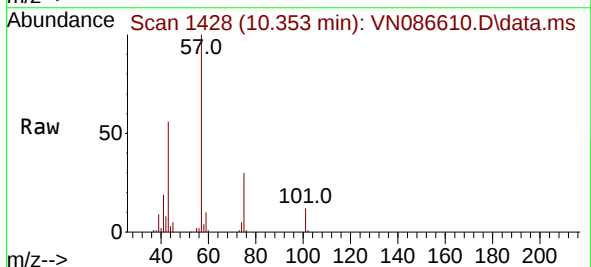
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#08

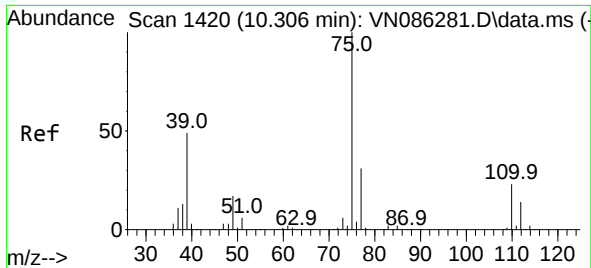
Tgt Ion: 98 Resp: 416200
Ion Ratio Lower Upper
98 100
100 65.6 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 19.644 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. -0.088 min
Lab File: VN086610.D
Acq: 13 May 2025 18:37

Tgt Ion: 43 Resp: 62258
Ion Ratio Lower Upper
43 100
58 6.6 32.2 48.4#

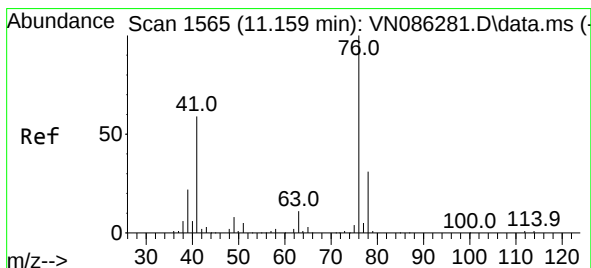
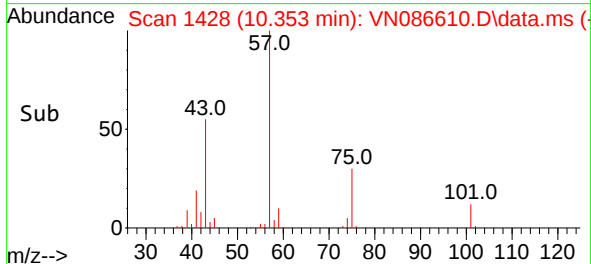
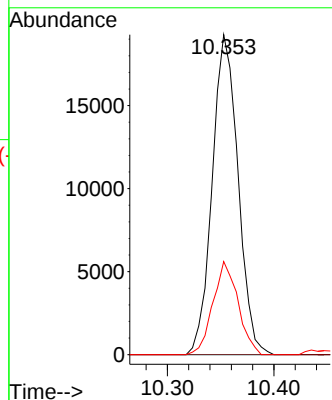
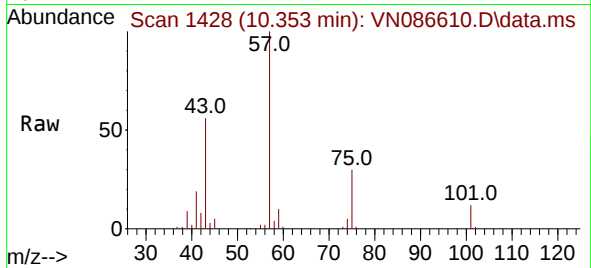




#54
 cis-1,3-Dichloropropene
 Concen: 8.339 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.047 min
 Lab File: VN086610.D
 Acq: 13 May 2025 18:37

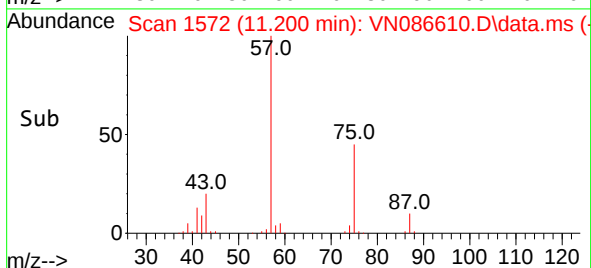
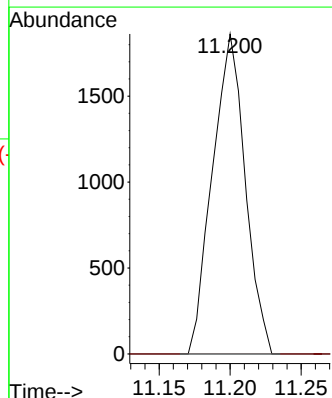
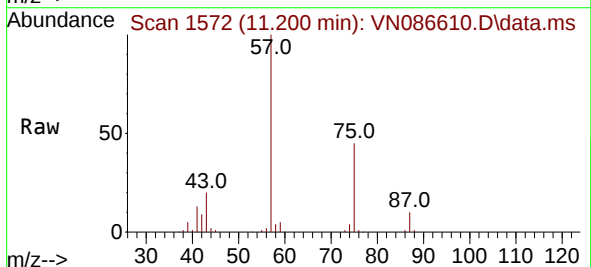
Instrument :
 MSVOA_N
 ClientSampleId :
 PB167964ZHE#08

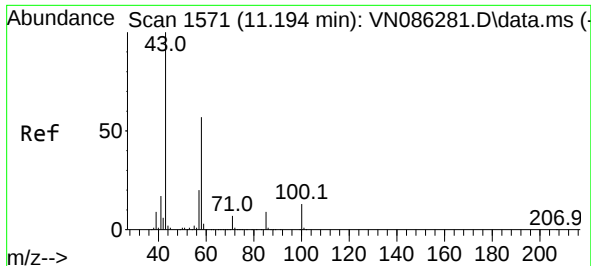
Tgt Ion: 75 Resp: 32440
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#
 39 29.1 39.3 58.9#



#57
 1,3-Dichloropropane
 Concen: 0.796 ug/l
 RT: 11.200 min Scan# 1572
 Delta R.T. 0.041 min
 Lab File: VN086610.D
 Acq: 13 May 2025 18:37

Tgt Ion: 76 Resp: 2987
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#

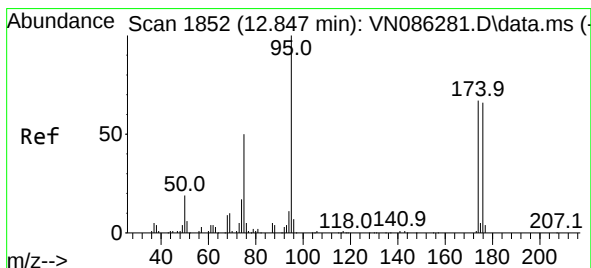
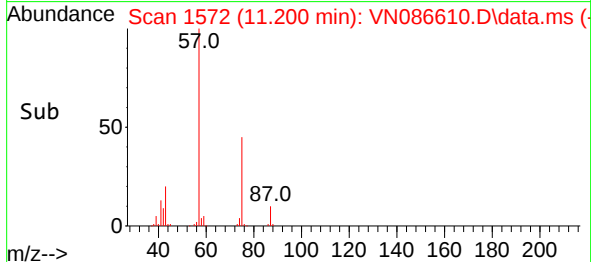
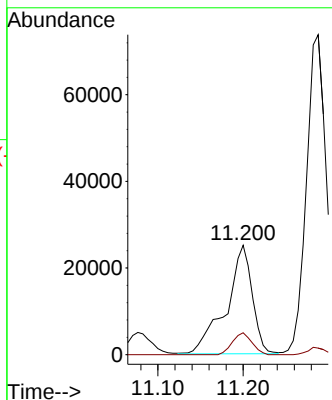
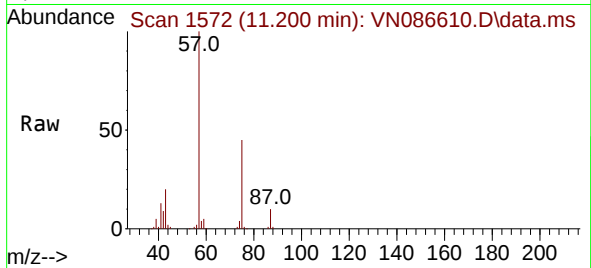




#59
2-Hexanone
Concen: 22.684 ug/l
RT: 11.200 min Scan# 1157
Delta R.T. 0.006 min
Lab File: VN086610.D
Acq: 13 May 2025 18:37

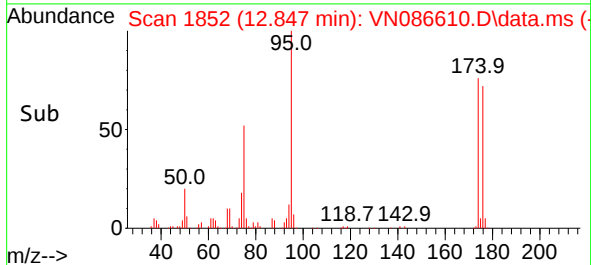
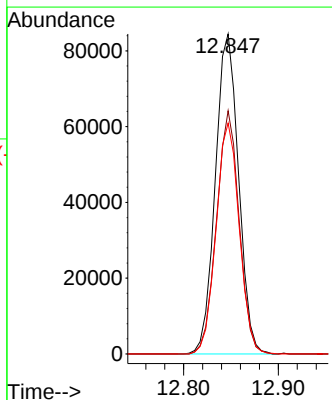
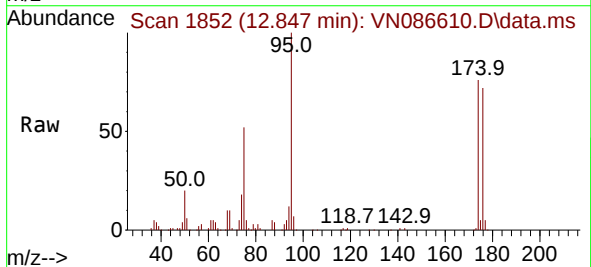
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#08

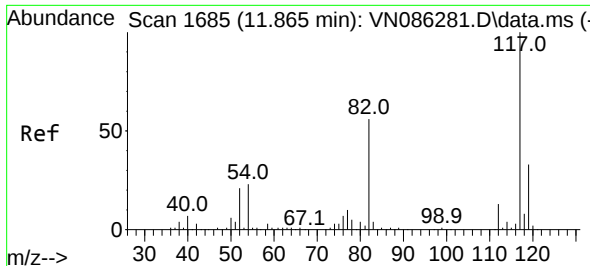
Tgt Ion: 43 Resp: 53327
Ion Ratio Lower Upper
43 100
58 15.0 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 50.131 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086610.D
Acq: 13 May 2025 18:37

Tgt Ion: 95 Resp: 143840
Ion Ratio Lower Upper
95 100
174 74.0 0.0 133.4
176 71.8 0.0 129.2

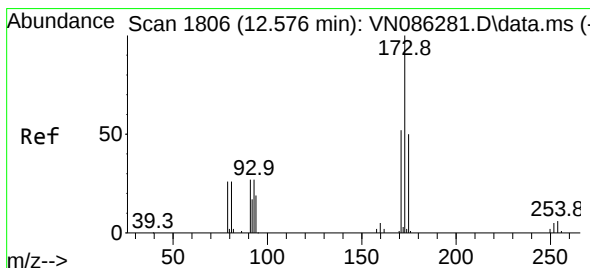
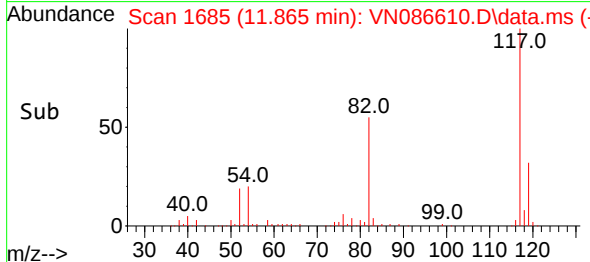
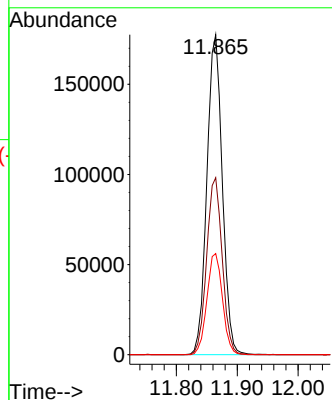
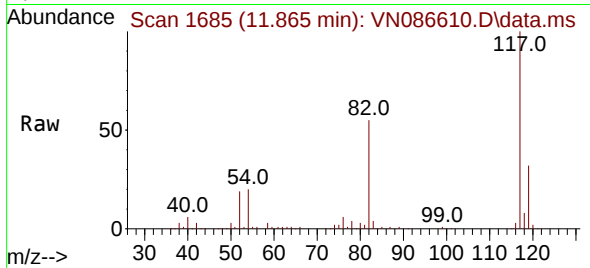




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN086610.D
Acq: 13 May 2025 18:37

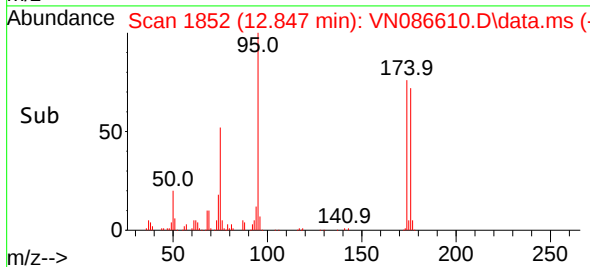
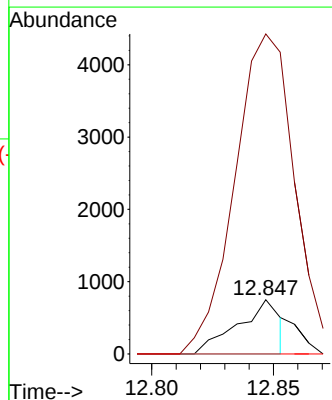
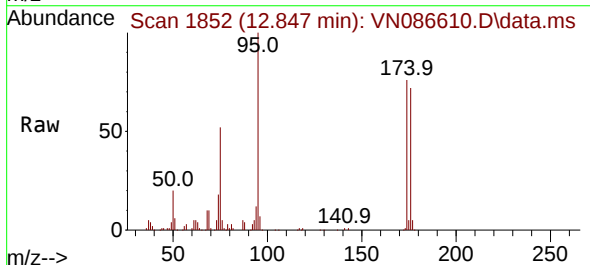
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#08

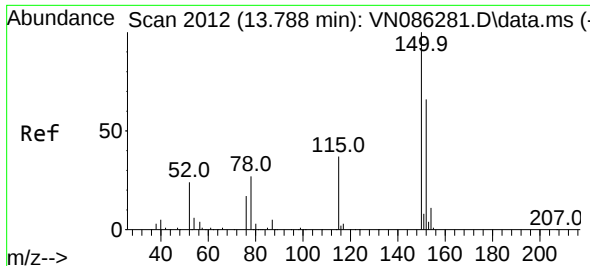
Tgt Ion:117 Resp: 312516
Ion Ratio Lower Upper
117 100
82 55.3 44.7 67.1
119 31.6 26.4 39.6



#71
Bromoform
Concen: 0.528 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.270 min
Lab File: VN086610.D
Acq: 13 May 2025 18:37

Tgt Ion:173 Resp: 914
Ion Ratio Lower Upper
173 100
175 672.3 24.6 73.6#
254 0.0 0.0 0.0

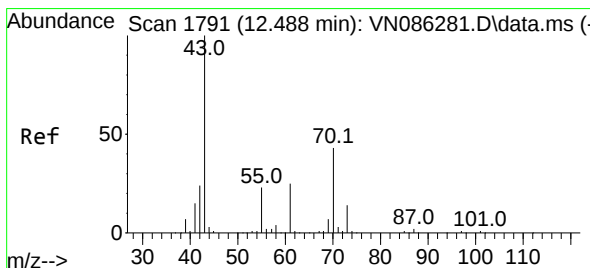
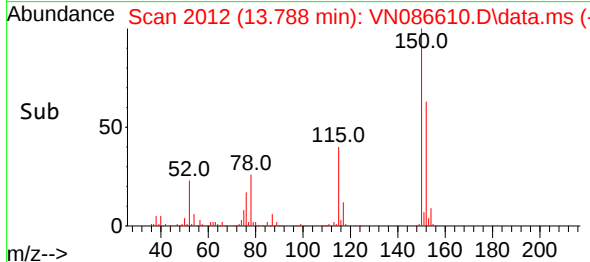
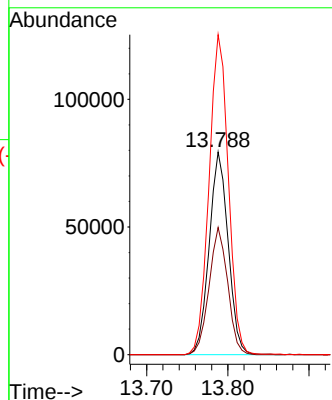
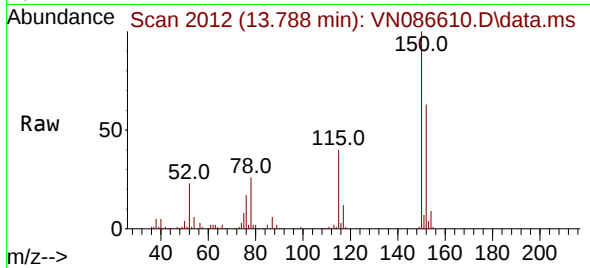




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN086610.D
Acq: 13 May 2025 18:37

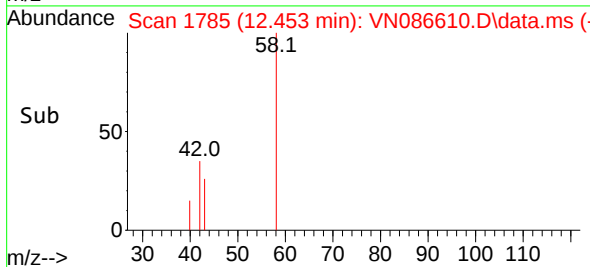
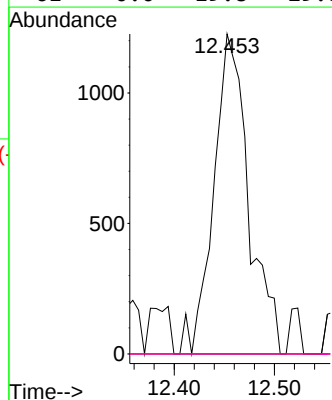
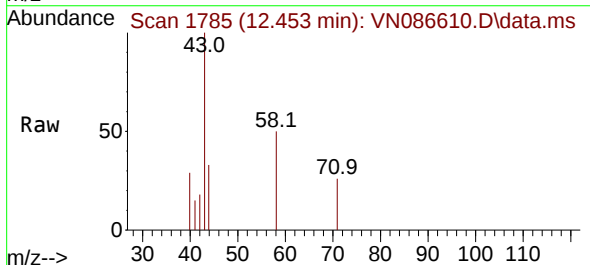
Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#08

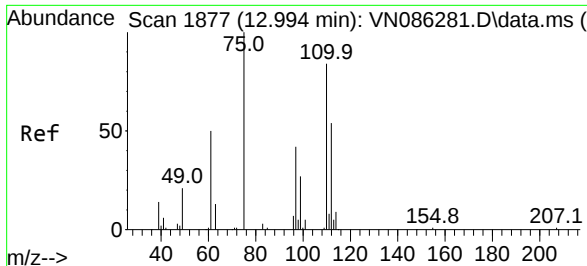
Tgt Ion:152 Resp: 128863
Ion Ratio Lower Upper
152 100
115 61.5 31.9 95.9
150 160.5 0.0 352.0



#74
N-ethyl acetate
Concen: 0.566 ug/l
RT: 12.453 min Scan# 1785
Delta R.T. -0.035 min
Lab File: VN086610.D
Acq: 13 May 2025 18:37

Tgt Ion: 43 Resp: 2971
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#

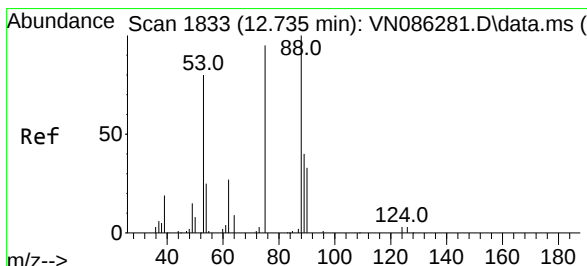
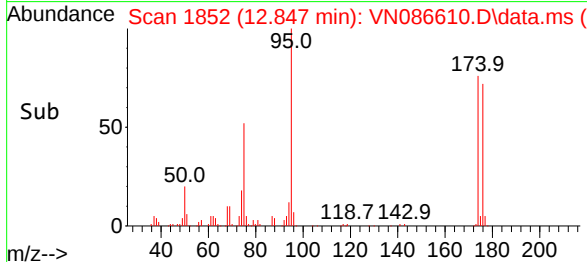
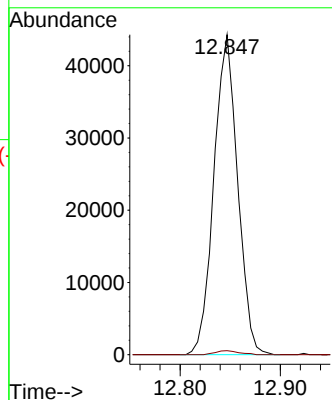
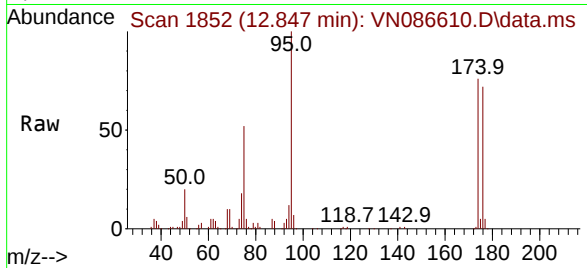




#76
1,2,3-Trichloropropane
Concen: 23.917 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN086610.D
Acq: 13 May 2025 18:37

Instrument :
MSVOA_N
ClientSampleId :
PB167964ZHE#08

Tgt Ion: 75 Resp: 72732
Ion Ratio Lower Upper
75 100
77 1.2 98.8 296.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 57.441 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086610.D
Acq: 13 May 2025 18:37

Tgt Ion: 75 Resp: 72732
Ion Ratio Lower Upper
75 100
53 0.0 79.2 118.8#
89 0.0 35.7 53.5#

