

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY040325\
 Data File : VY021771.D
 Acq On : 03 Apr 2025 14:20
 Operator : SY/MD
 Sample : Q1706-01
 Misc : 5.04g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 PL-01-040225

Quant Time: Apr 04 01:31:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y032725S.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 28 02:30:29 2025
 Response via : Initial Calibration

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

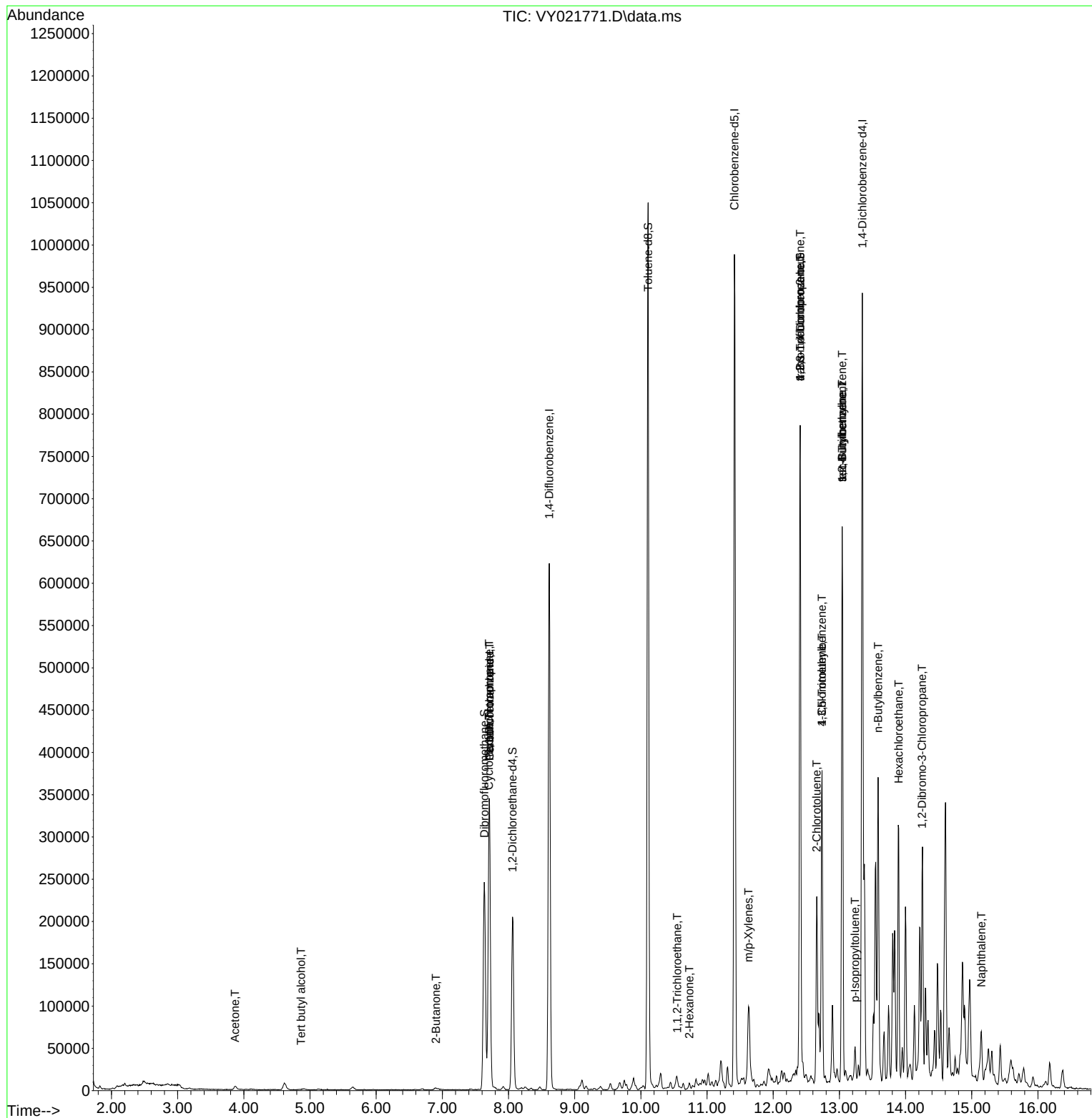
Internal Standards						
1) Pentafluorobenzene	7.713	168	263271	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	514901	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	509787	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	227815	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	161389	56.579	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 113.160%	
35) Dibromofluoromethane	7.634	113	171995	51.494	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 102.980%	
50) Toluene-d8	10.109	98	655554	51.591	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 103.180%	
62) 4-Bromofluorobenzene	12.408	95	230329	53.590	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 107.180%	
Target Compounds						
						Qvalue
11) Tert butyl alcohol	4.866	59	212	1.144	ug/l #	57
16) Acetone	3.866	43	7308	12.518	ug/l	99
20) Methylene Chloride	4.610	84	5354	Below Cal	#	87
25) 2-Butanone	6.902	43	1475	1.769	ug/l #	75
31) Cyclohexane	7.701	56	6744	1.340	ug/l #	8
36) 1,1-Dichloropropene	7.707	75	21136	4.155	ug/l #	52
38) Carbon Tetrachloride	7.713	117	26733	4.588	ug/l #	17
55) 1,1,2-Trichloroethane	10.548	97	4155	1.553	ug/l #	19
59) 2-Hexanone	10.731	43	2711	1.719	ug/l #	26
68) m/p-Xylenes	11.627	106	23673	3.085	ug/l	96
76) 1,2,3-Trichloropropane	12.408	75	123457	54.670	ug/l #	100
79) 2-Chlorotoluene	12.657	91	22143	1.874	ug/l #	40
80) 1,3,5-Trimethylbenzene	12.737	105	163136	11.797	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.408	75	123457	125.968	ug/l #	12
82) 4-Chlorotoluene	12.737	91	18992	1.542	ug/l #	41
83) tert-Butylbenzene	13.042	119	41242	3.348	ug/l #	66
84) 1,2,4-Trimethylbenzene	13.042	105	327462	23.958	ug/l	100
85) sec-Butylbenzene	13.042	105	327462	18.191	ug/l #	56
86) p-Isopropyltoluene	13.237	119	15338	1.031	ug/l	95
89) n-Butylbenzene	13.584	91	40015	2.908	ug/l #	1
90) Hexachloroethane	13.895	117	15081	4.626	ug/l #	12
92) 1,2-Dibromo-3-Chloropr...	14.249	75	1189	2.522	ug/l #	1
95) Naphthalene	15.145	128	41664	6.652	ug/l	97

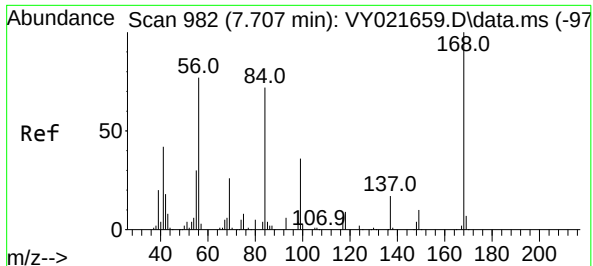
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 9 Sample Multiplier: 1

Instrument :
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PL-01-040225

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Quant Title : SW846 8260
QLast Update : Fri Mar 28 02:30:29 2025
Response via : Initial Calibration

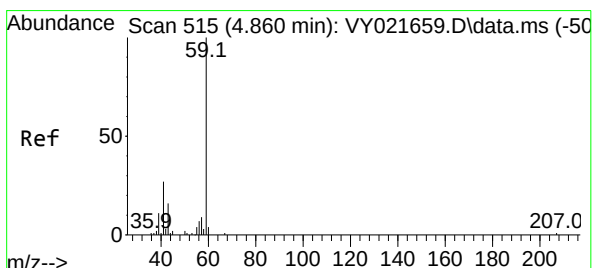
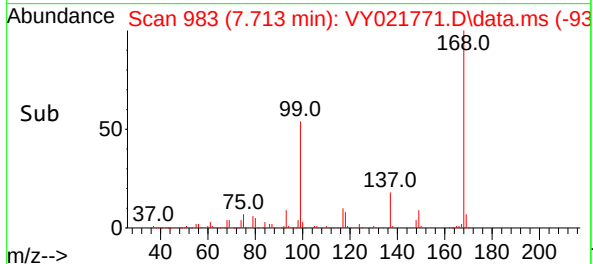
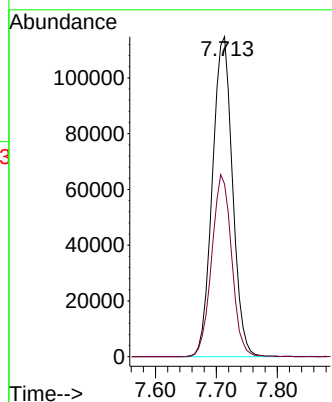
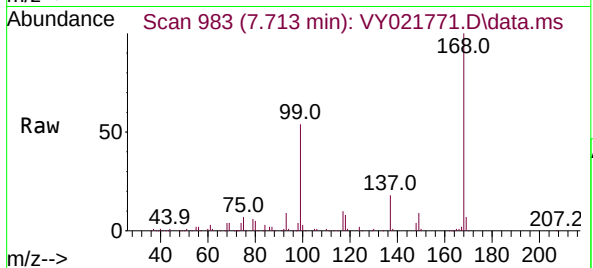




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.006 min
Lab File: VY021771.D
Acq: 03 Apr 2025 14:20

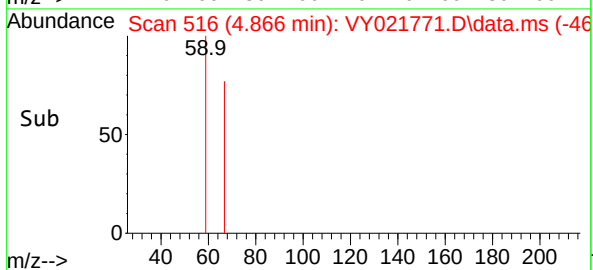
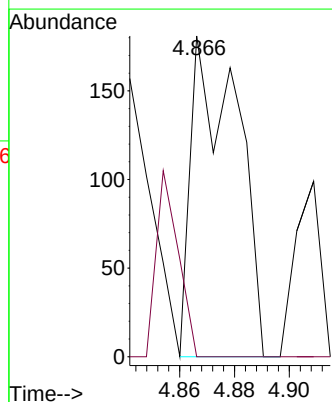
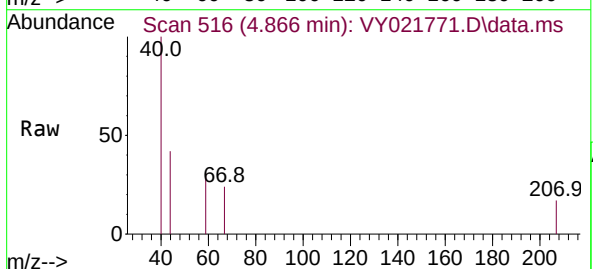
Instrument :
MSVOA_Y
ClientSampleId :
PL-01-040225

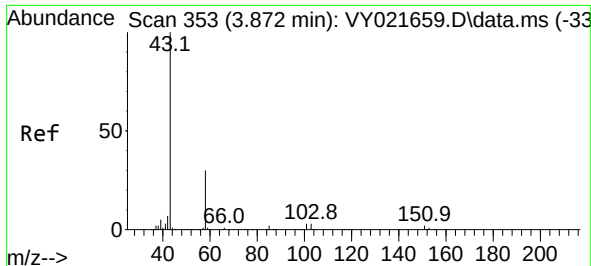
Tgt Ion:168 Resp: 263271
Ion Ratio Lower Upper
168 100
99 54.0 46.7 70.1



#11
Tert butyl alcohol
Concen: 1.144 ug/l
RT: 4.866 min Scan# 516
Delta R.T. 0.006 min
Lab File: VY021771.D
Acq: 03 Apr 2025 14:20

Tgt Ion: 59 Resp: 212
Ion Ratio Lower Upper
59 100
57 27.8 9.2 13.8#

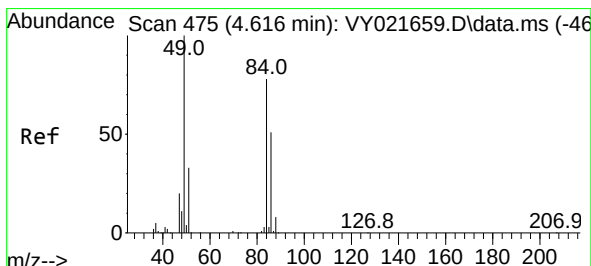
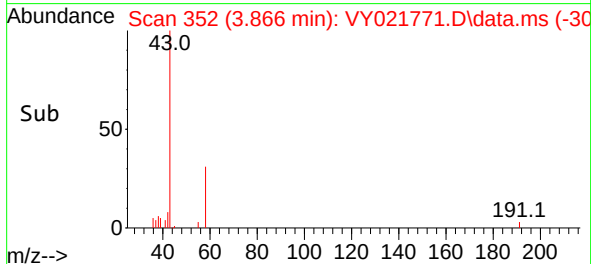
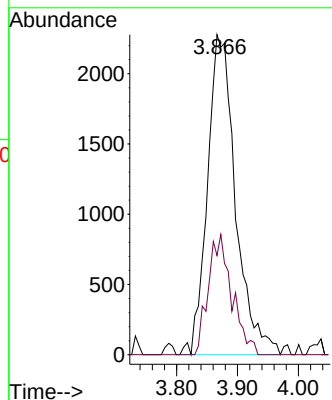
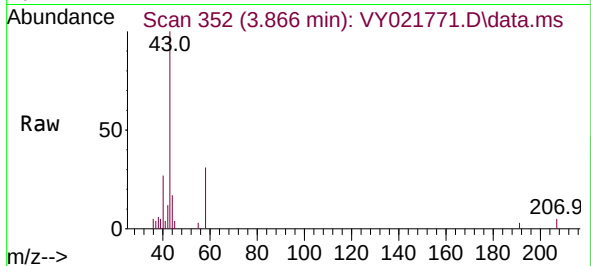




#16
Acetone
Concen: 12.518 ug/l
RT: 3.866 min Scan# 31
Delta R.T. -0.006 min
Lab File: VY021771.D
Acq: 03 Apr 2025 14:20

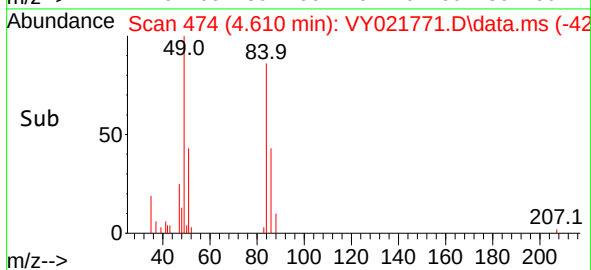
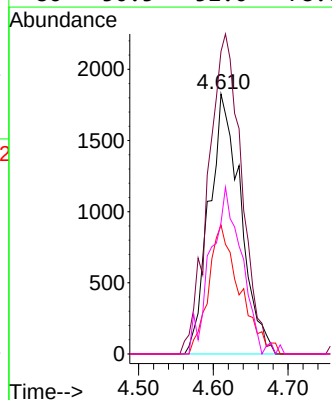
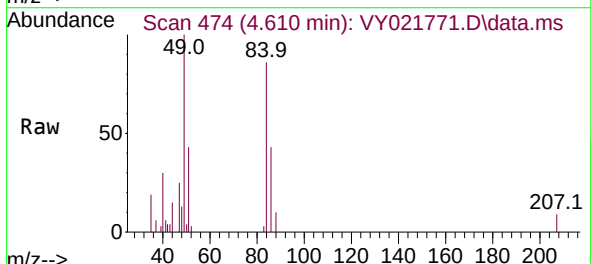
Instrument :
MSVOA_Y
ClientSampleId :
PL-01-040225

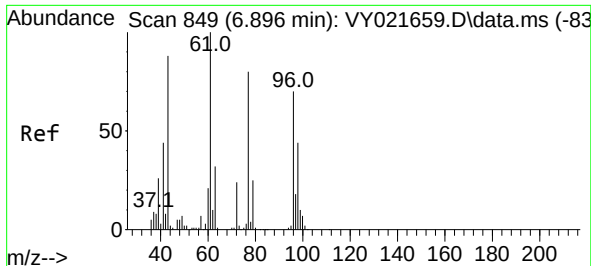
Tgt Ion: 43 Resp: 7308
Ion Ratio Lower Upper
43 100
58 31.0 24.2 36.4



#20
Methylene Chloride
Concen: Below Cal
RT: 4.610 min Scan# 474
Delta R.T. -0.006 min
Lab File: VY021771.D
Acq: 03 Apr 2025 14:20

Tgt Ion: 84 Resp: 5354
Ion Ratio Lower Upper
84 100
49 116.4 102.8 154.2
51 49.6 33.5 50.3
86 50.5 52.0 78.0#

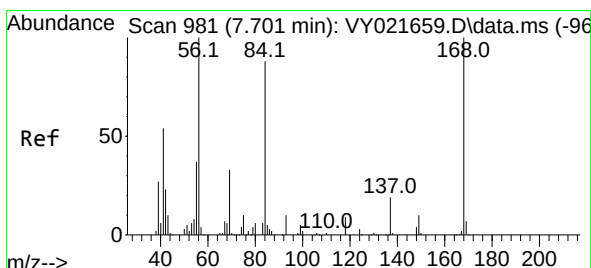
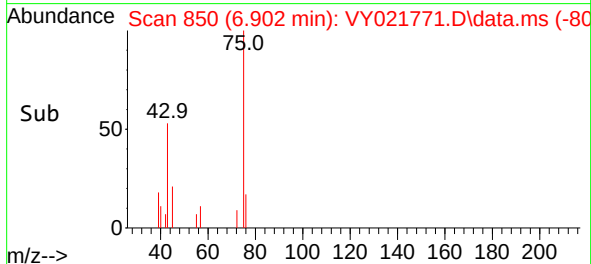
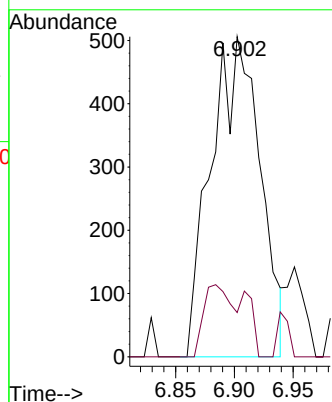
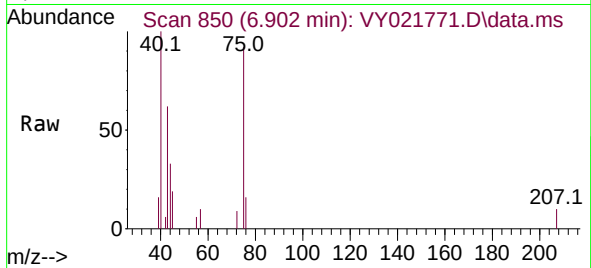




#25
2-Butanone
Concen: 1.769 ug/l
RT: 6.902 min Scan# 849
Delta R.T. 0.006 min
Lab File: VY021771.D
Acq: 03 Apr 2025 14:20

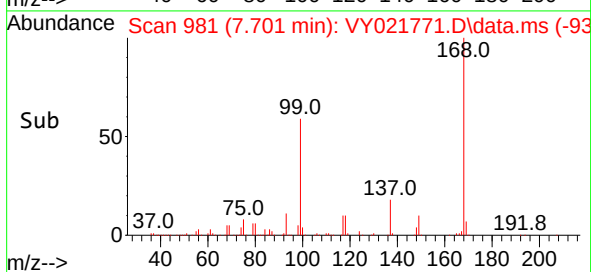
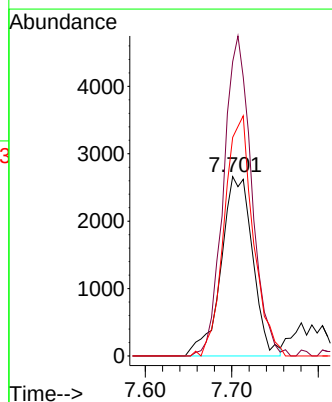
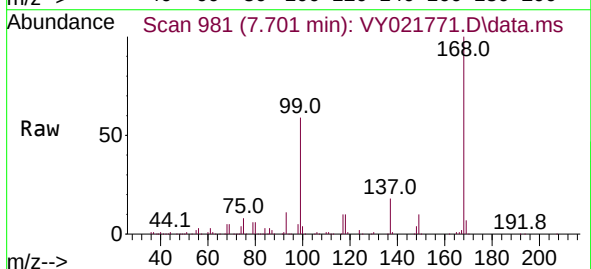
Instrument :
MSVOA_Y
ClientSampleId :
PL-01-040225

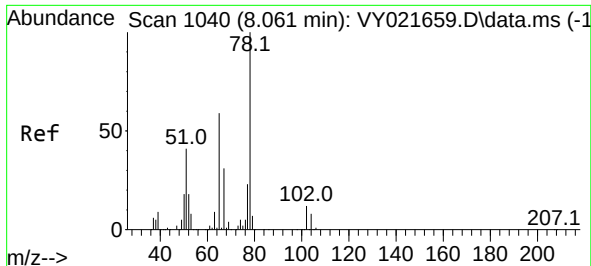
Tgt Ion: 43 Resp: 1475
Ion Ratio Lower Upper
43 100
72 13.8 21.4 32.2#



#31
Cyclohexane
Concen: 1.340 ug/l
RT: 7.701 min Scan# 981
Delta R.T. 0.000 min
Lab File: VY021771.D
Acq: 03 Apr 2025 14:20

Tgt Ion: 56 Resp: 6744
Ion Ratio Lower Upper
56 100
69 164.0 26.6 40.0#
84 121.9 69.0 103.4#





#33

1,2-Dichloroethane-d4

Concen: 56.579 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VY021771.D

Acq: 03 Apr 2025 14:20

Instrument :

MSVOA_Y

ClientSampleId :

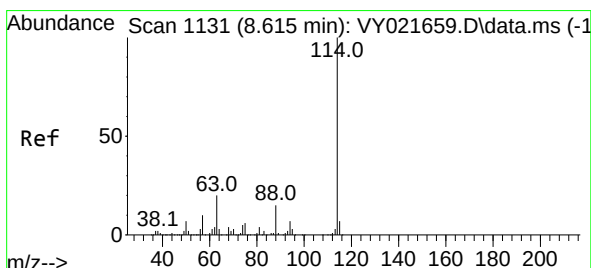
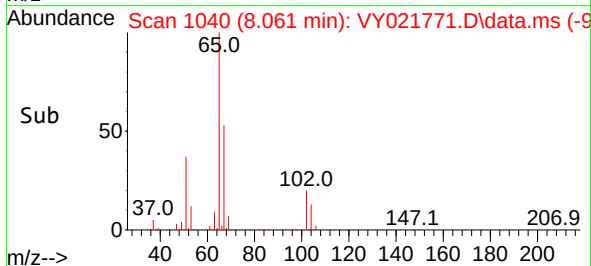
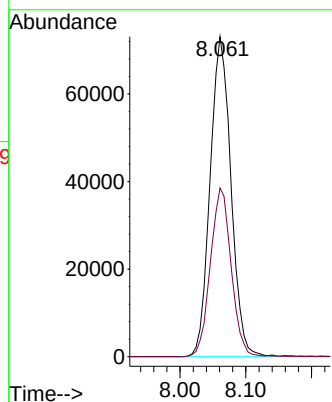
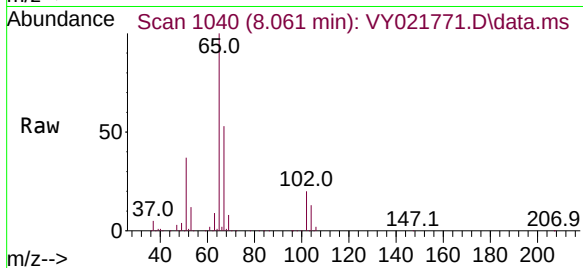
PL-01-040225

Tgt Ion: 65 Resp: 161389

Ion Ratio Lower Upper

65 100

67 52.5 0.0 104.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY021771.D

Acq: 03 Apr 2025 14:20

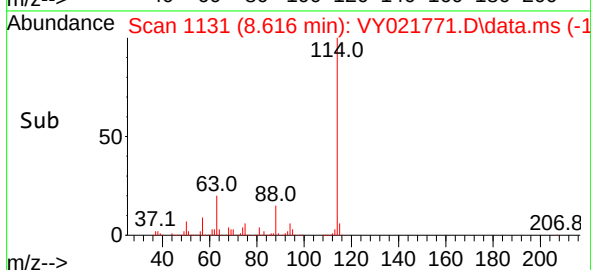
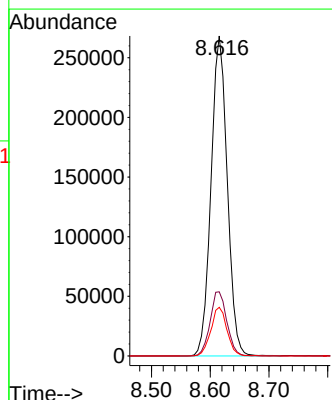
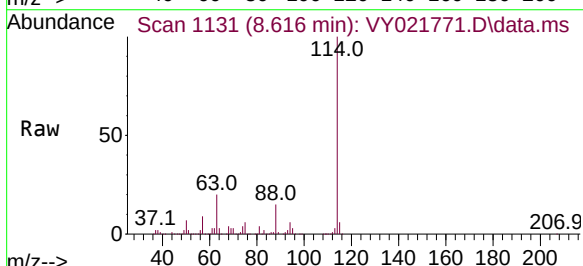
Tgt Ion: 114 Resp: 514901

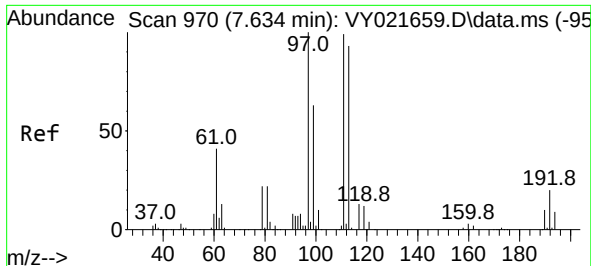
Ion Ratio Lower Upper

114 100

63 20.0 0.0 40.2

88 15.2 0.0 29.8

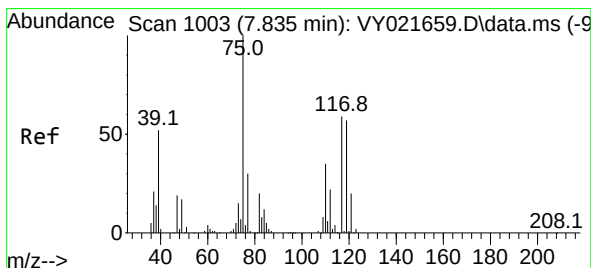
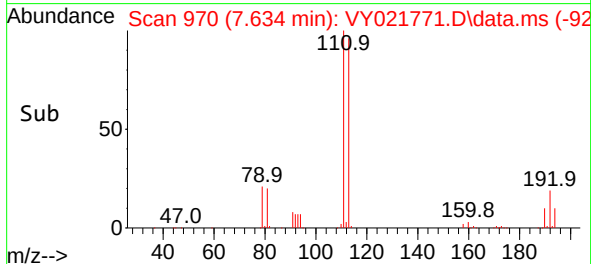
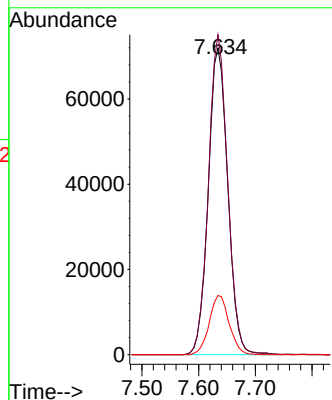
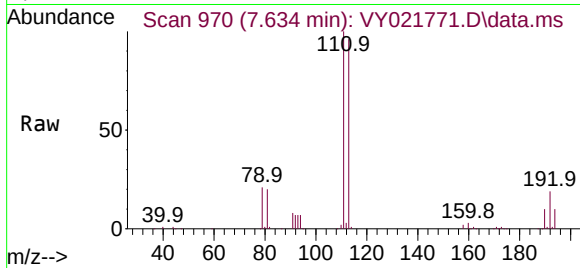




#35
Dibromofluoromethane
Concen: 51.494 ug/l
RT: 7.634 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY021771.D
Acq: 03 Apr 2025 14:20

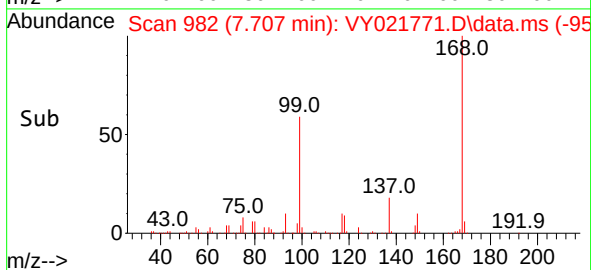
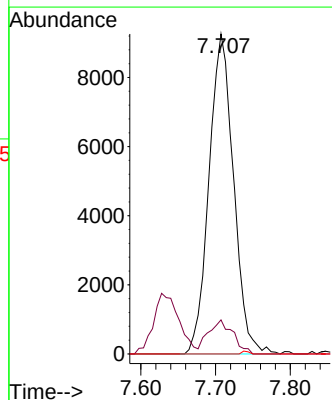
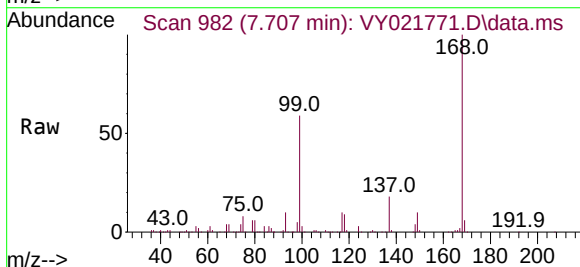
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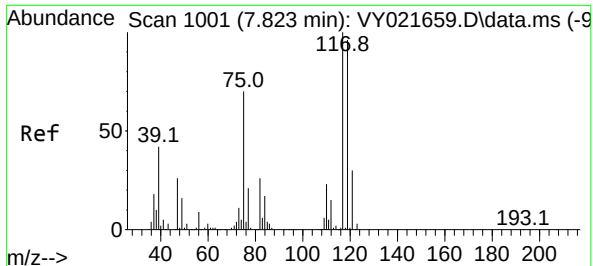
Tgt Ion:113 Resp: 171995
Ion Ratio Lower Upper
113 100
111 102.9 82.6 123.8
192 19.7 16.2 24.4



#36
1,1-Dichloropropene
Concen: 4.155 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.128 min
Lab File: VY021771.D
Acq: 03 Apr 2025 14:20

Tgt Ion: 75 Resp: 21136
Ion Ratio Lower Upper
75 100
110 10.7 17.0 50.9#
77 0.0 24.8 37.2#

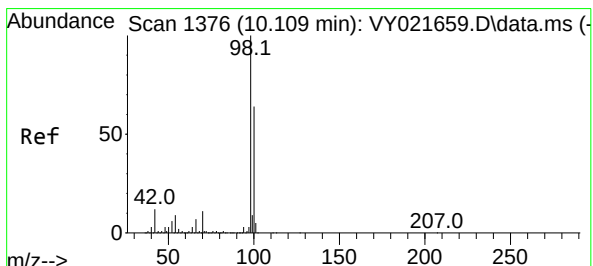
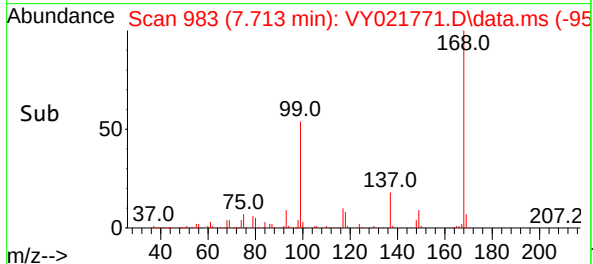
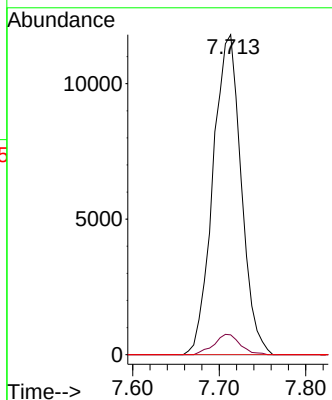
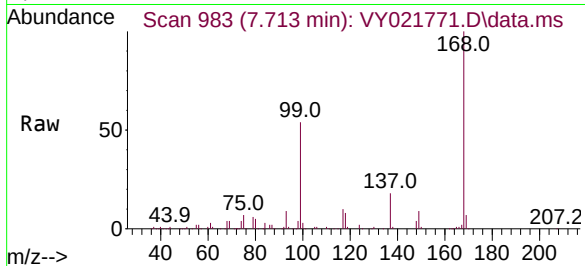




#38
Carbon Tetrachloride
Concen: 4.588 ug/l
RT: 7.713 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY021771.D
Acq: 03 Apr 2025 14:20

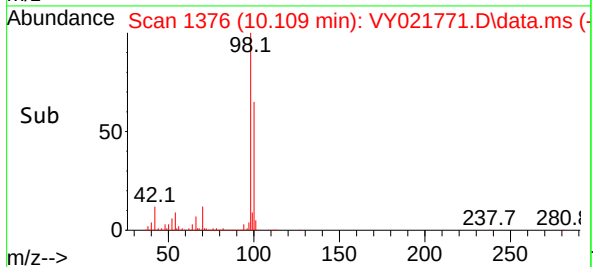
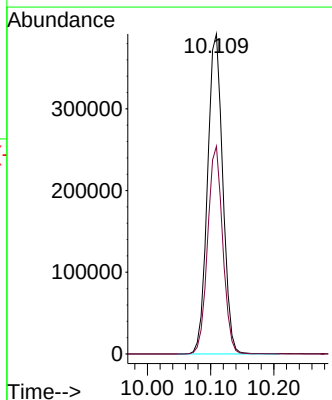
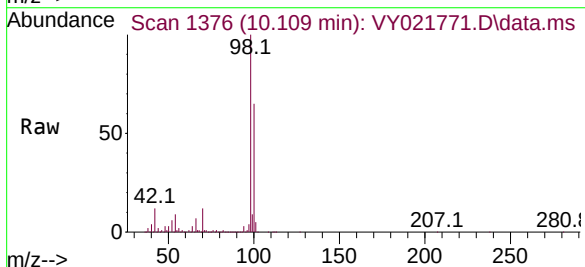
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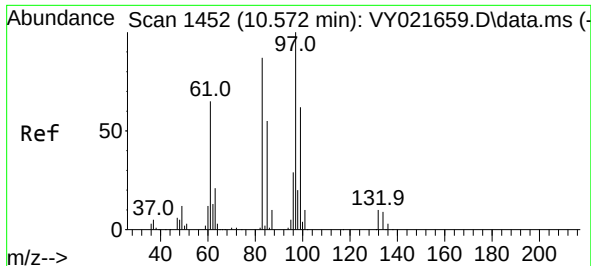
Tgt Ion:117 Resp: 26733
Ion Ratio Lower Upper
117 100
119 6.2 76.2 114.4#
121 0.0 24.2 36.4#



#50
Toluene-d8
Concen: 51.591 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY021771.D
Acq: 03 Apr 2025 14:20

Tgt Ion: 98 Resp: 655554
Ion Ratio Lower Upper
98 100
100 64.0 52.1 78.1

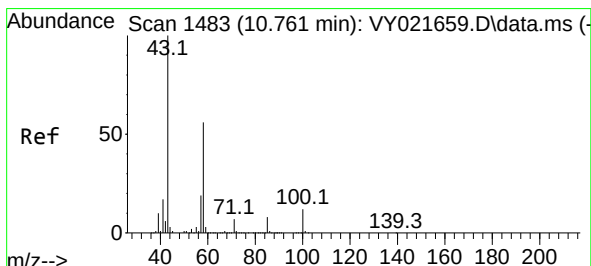
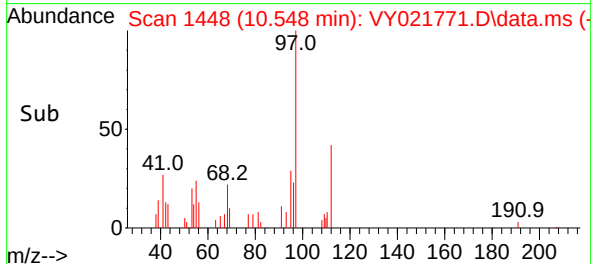
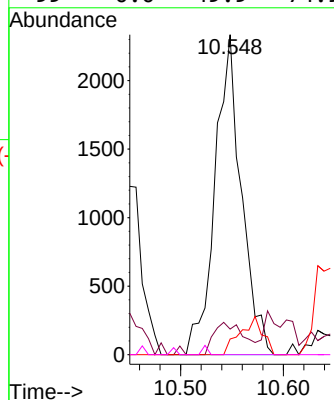
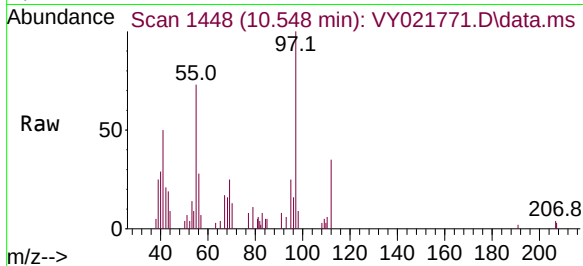




#55
1,1,2-Trichloroethane
Concen: 1.553 ug/l
RT: 10.548 min Scan# 1452
Delta R.T. -0.024 min
Lab File: VY021771.D
Acq: 03 Apr 2025 14:20

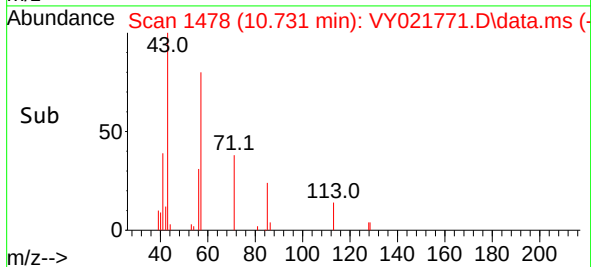
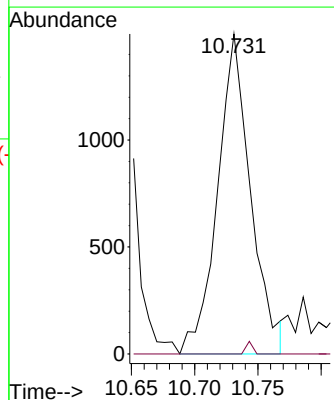
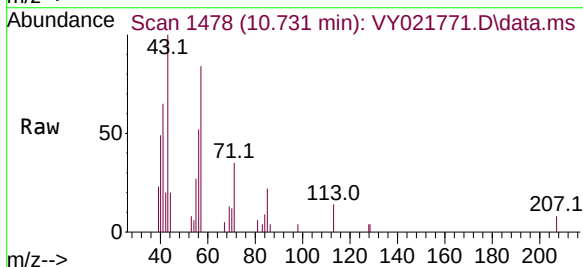
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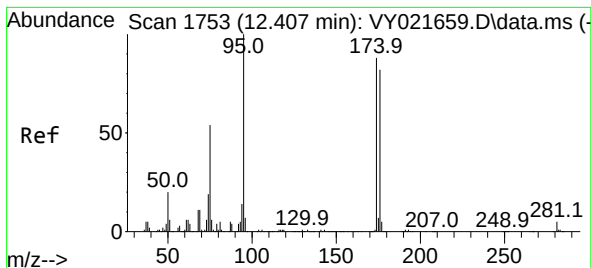
Tgt Ion:	97	Resp:	4155
Ion	Ratio	Lower	Upper
97	100		
83	5.3	69.5	104.3#
85	4.9	43.9	65.9#
99	0.0	49.9	74.9#



#59
2-Hexanone
Concen: 1.719 ug/l
RT: 10.731 min Scan# 1478
Delta R.T. -0.030 min
Lab File: VY021771.D
Acq: 03 Apr 2025 14:20

Tgt Ion:	43	Resp:	2711
Ion	Ratio	Lower	Upper
43	100		
58	0.8	27.2	81.5#





#62

4-Bromofluorobenzene

Concen: 53.590 ug/l

RT: 12.408 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY021771.D

Acq: 03 Apr 2025 14:20

Instrument :

MSVOA_Y

ClientSampleId :

PL-01-040225

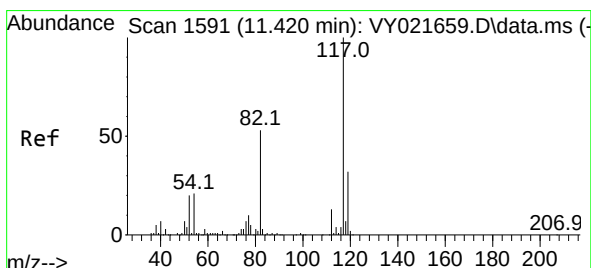
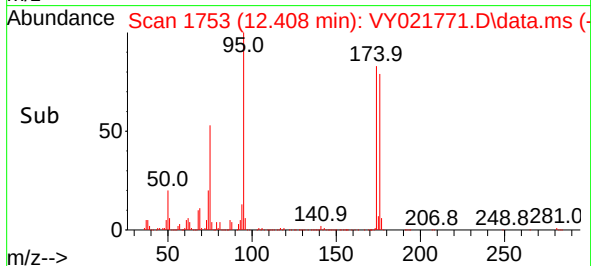
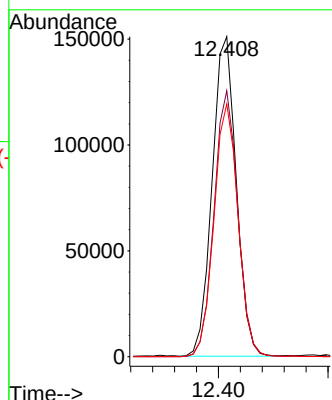
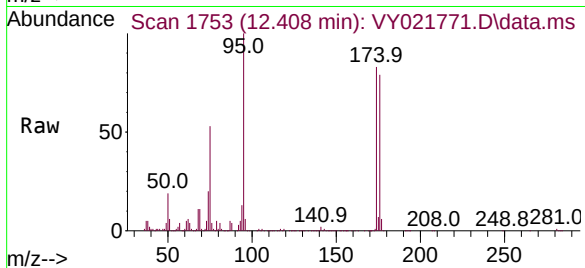
Tgt Ion: 95 Resp: 230329

Ion Ratio Lower Upper

95 100

174 82.3 0.0 170.8

176 79.2 0.0 162.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.006 min

Lab File: VY021771.D

Acq: 03 Apr 2025 14:20

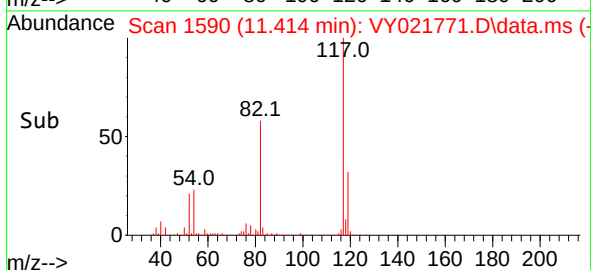
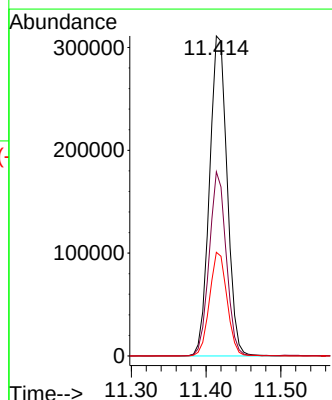
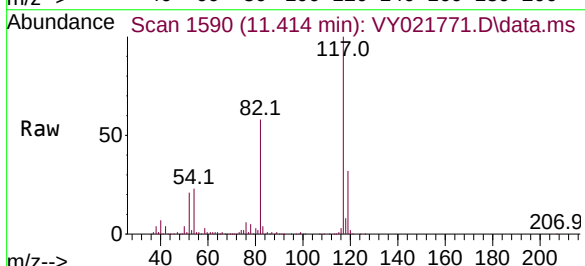
Tgt Ion: 117 Resp: 509787

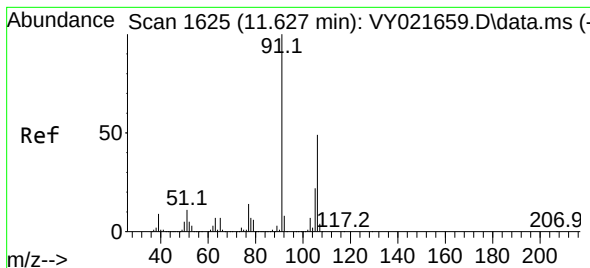
Ion Ratio Lower Upper

117 100

82 57.5 42.8 64.2

119 32.4 25.7 38.5





#68

m/p-Xylenes

Concen: 3.085 ug/l

RT: 11.627 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY021771.D

Acq: 03 Apr 2025 14:20

Instrument :

MSVOA_Y

ClientSampleId :

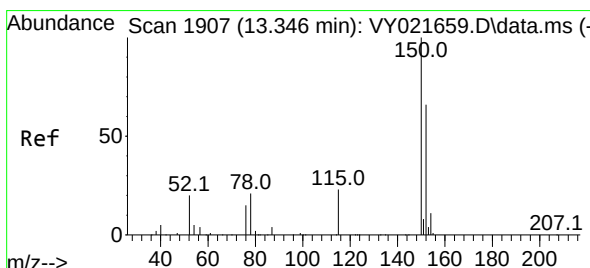
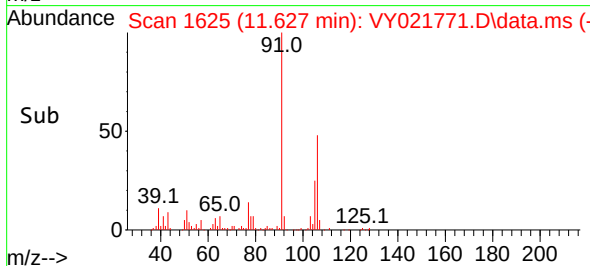
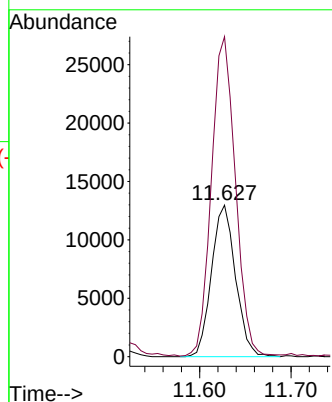
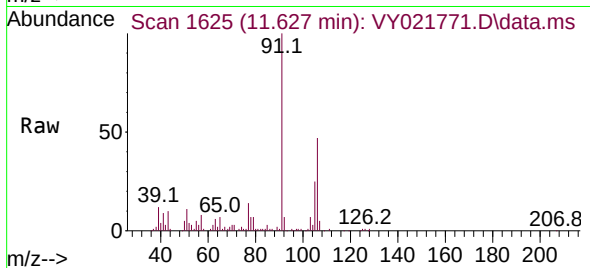
PL-01-040225

Tgt Ion:106 Resp: 23673

Ion Ratio Lower Upper

106 100

91 209.7 162.4 243.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY021771.D

Acq: 03 Apr 2025 14:20

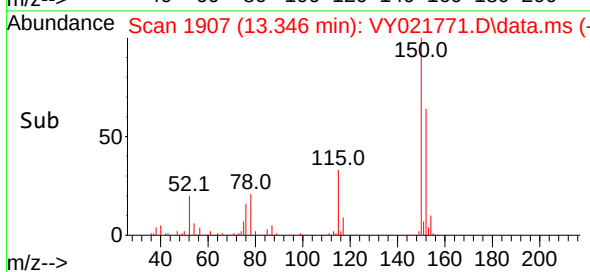
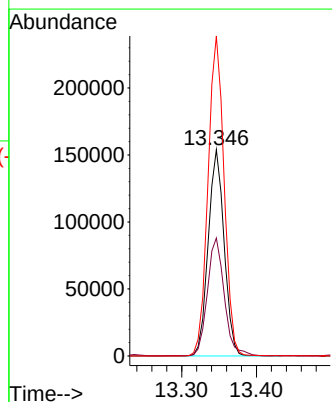
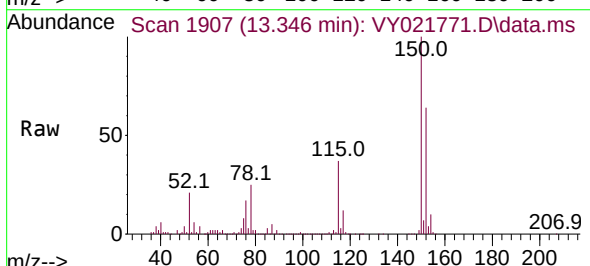
Tgt Ion:152 Resp: 227815

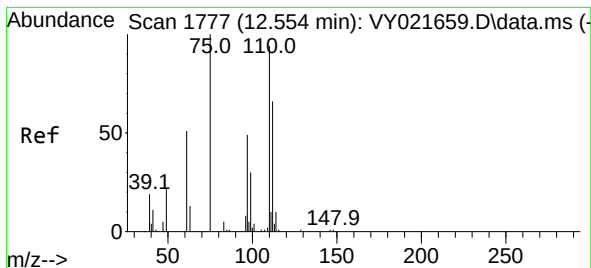
Ion Ratio Lower Upper

152 100

115 60.3 28.8 86.5

150 156.5 0.0 348.4





#76

1,2,3-Trichloropropane

Concen: 54.670 ug/l

RT: 12.408 min Scan# 1

Delta R.T. -0.146 min

Lab File: VY021771.D

Acq: 03 Apr 2025 14:20

Instrument :

MSVOA_Y

ClientSampleId :

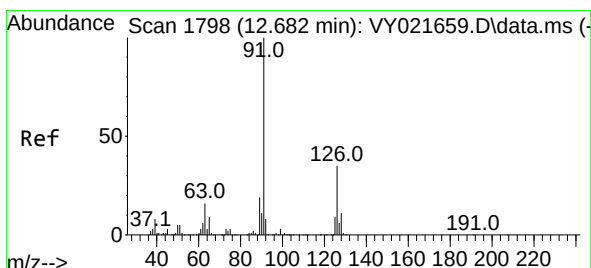
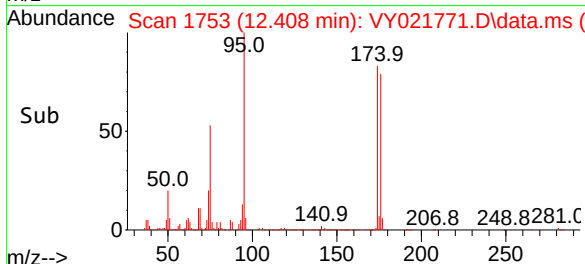
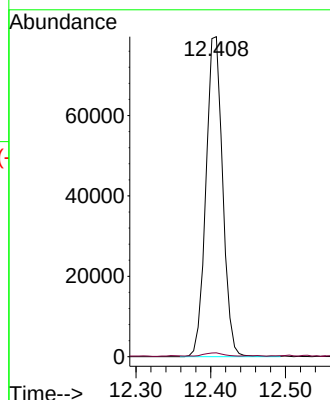
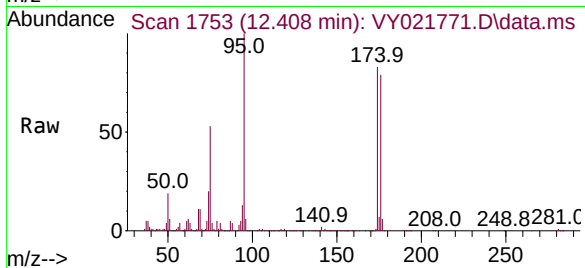
PL-01-040225

Tgt Ion: 75 Resp: 123457

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



#79

2-Chlorotoluene

Concen: 1.874 ug/l

RT: 12.657 min Scan# 1794

Delta R.T. -0.024 min

Lab File: VY021771.D

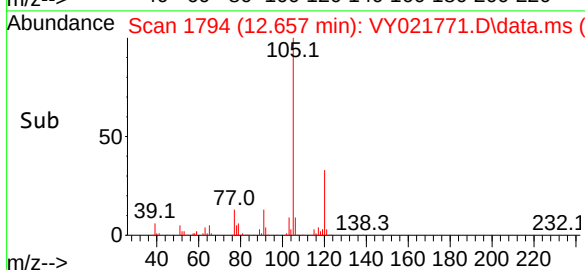
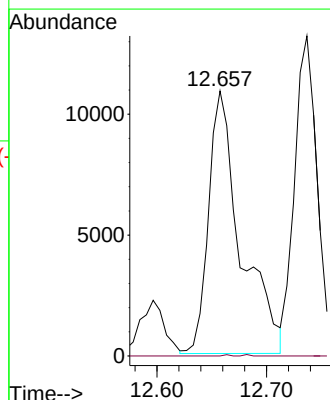
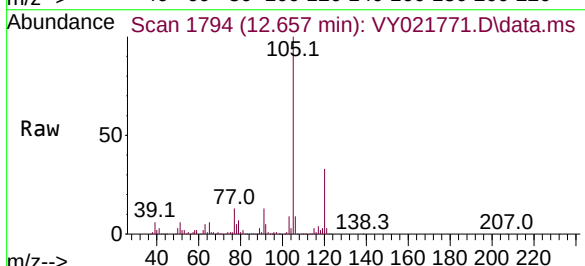
Acq: 03 Apr 2025 14:20

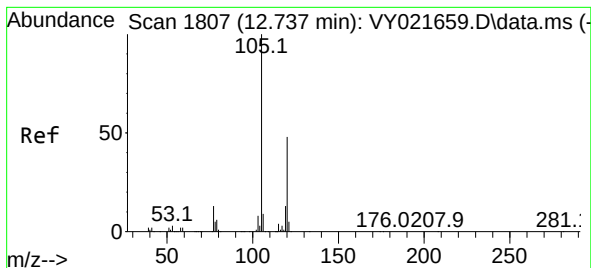
Tgt Ion: 91 Resp: 22143

Ion Ratio Lower Upper

91 100

126 0.1 17.3 52.0#





#80

1,3,5-Trimethylbenzene

Concen: 11.797 ug/l

RT: 12.737 min Scan# 1807

Delta R.T. 0.000 min

Lab File: VY021771.D

Acq: 03 Apr 2025 14:20

Instrument :

MSVOA_Y

ClientSampleId :

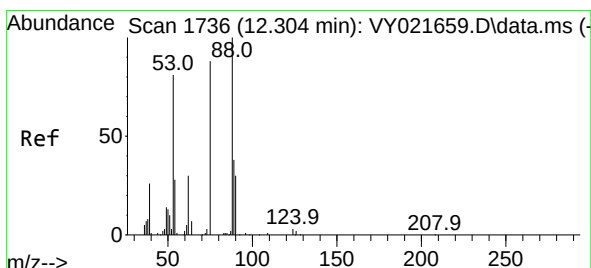
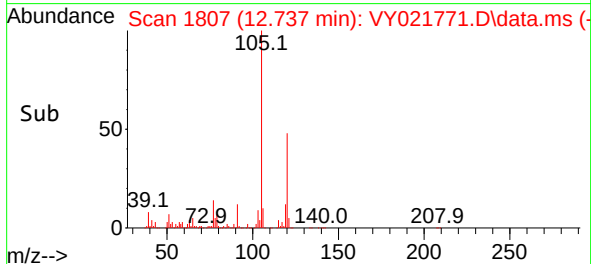
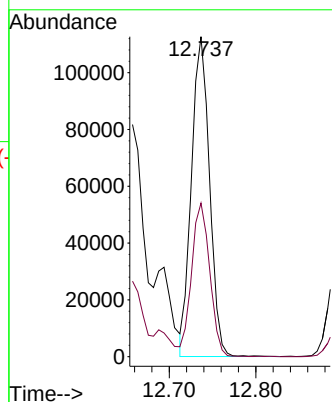
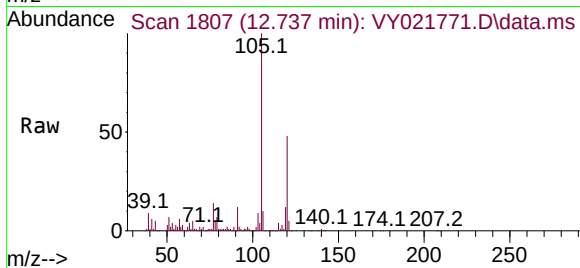
PL-01-040225

Tgt Ion:105 Resp: 163136

Ion Ratio Lower Upper

105 100

120 48.1 24.5 73.5



#81

trans-1,4-Dichloro-2-butene

Concen: 125.968 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.104 min

Lab File: VY021771.D

Acq: 03 Apr 2025 14:20

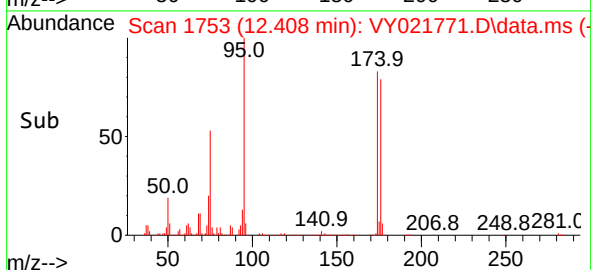
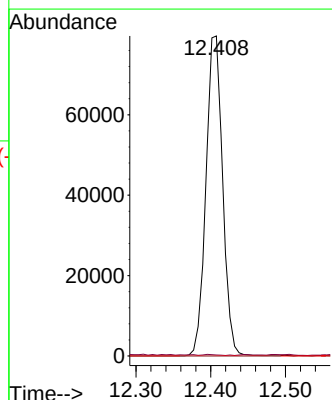
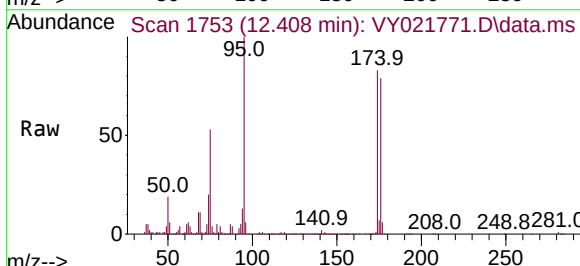
Tgt Ion: 75 Resp: 123457

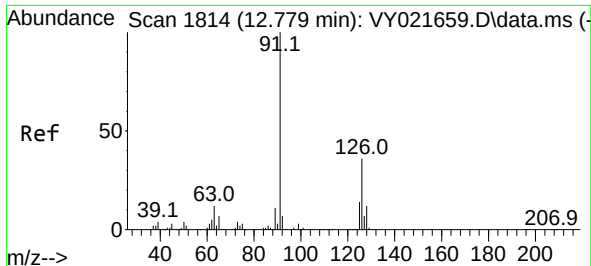
Ion Ratio Lower Upper

75 100

53 0.2 76.1 114.1#

89 0.0 36.2 54.4#

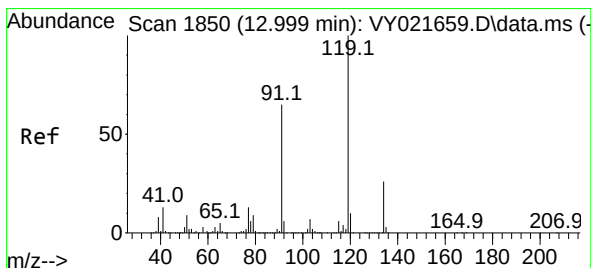
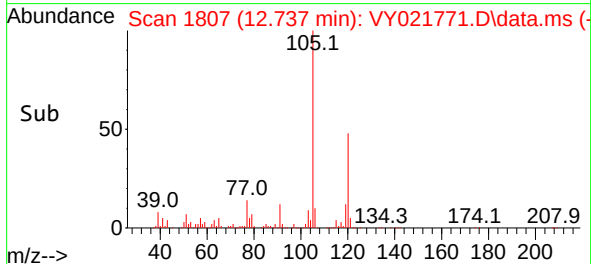
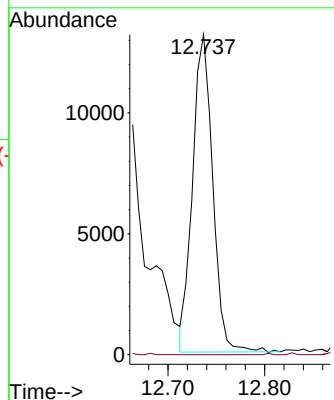
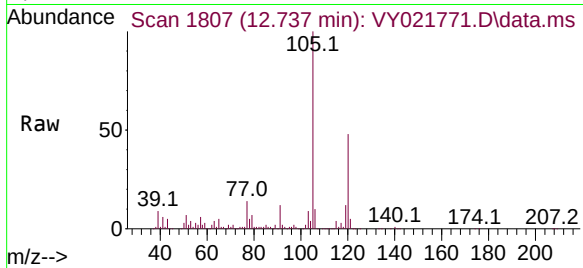




#82
4-Chlorotoluene
Concen: 1.542 ug/l
RT: 12.737 min Scan# 11
Delta R.T. -0.043 min
Lab File: VY021771.D
Acq: 03 Apr 2025 14:20

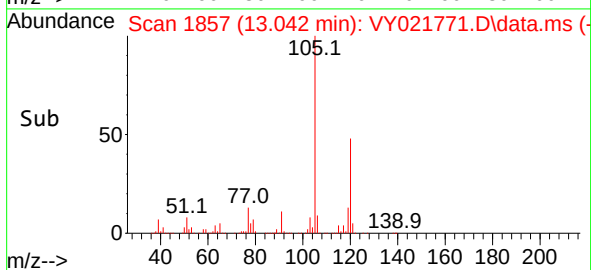
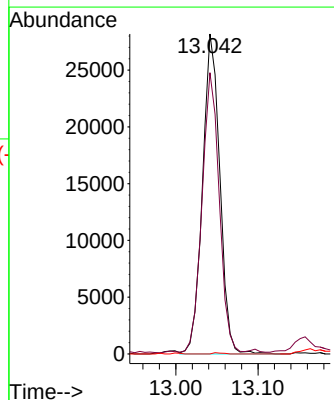
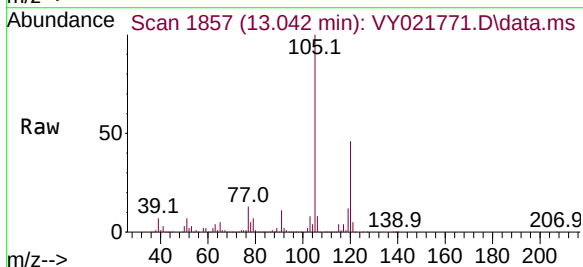
Instrument :
MSVOA_Y
ClientSampleId :
PL-01-040225

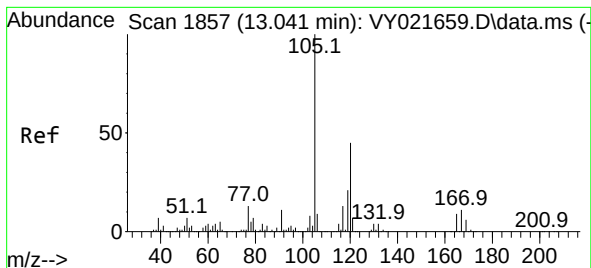
Tgt Ion: 91 Resp: 18992
Ion Ratio Lower Upper
91 100
126 0.0 17.0 50.9#



#83
tert-Butylbenzene
Concen: 3.348 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.043 min
Lab File: VY021771.D
Acq: 03 Apr 2025 14:20

Tgt Ion: 119 Resp: 41242
Ion Ratio Lower Upper
119 100
91 86.4 32.6 97.7
134 0.0 13.2 39.6#





#84

1,2,4-Trimethylbenzene

Concen: 23.958 ug/l

RT: 13.042 min Scan# 1857

Delta R.T. 0.000 min

Lab File: VY021771.D

Acq: 03 Apr 2025 14:20

Instrument :

MSVOA_Y

ClientSampleId :

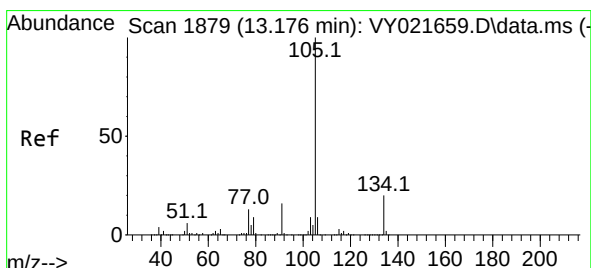
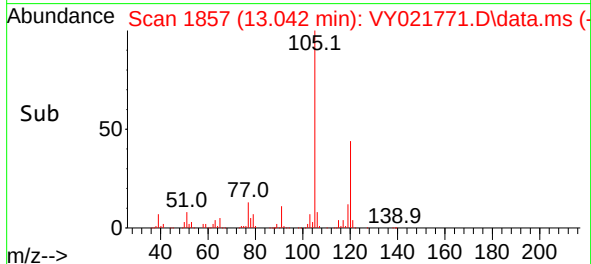
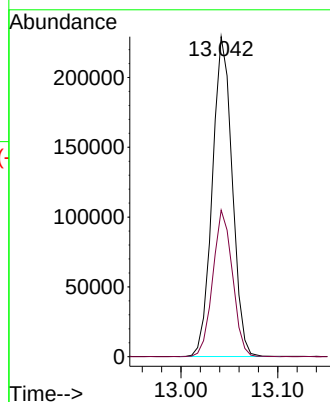
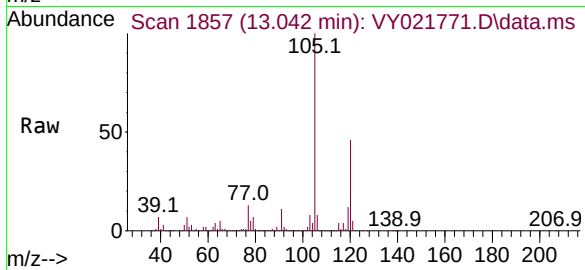
PL-01-040225

Tgt Ion:105 Resp: 327462

Ion Ratio Lower Upper

105 100

120 45.3 22.7 68.1



#85

sec-Butylbenzene

Concen: 18.191 ug/l

RT: 13.042 min Scan# 1857

Delta R.T. -0.134 min

Lab File: VY021771.D

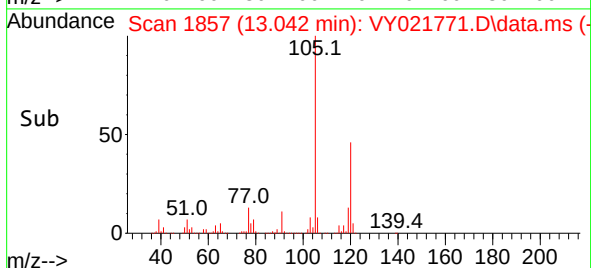
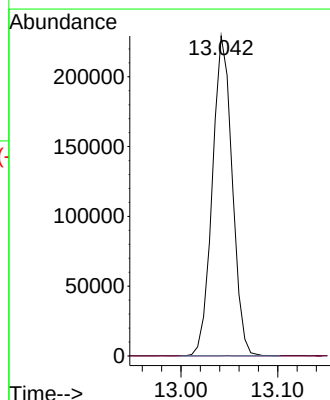
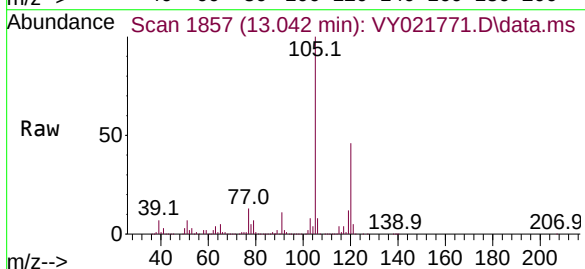
Acq: 03 Apr 2025 14:20

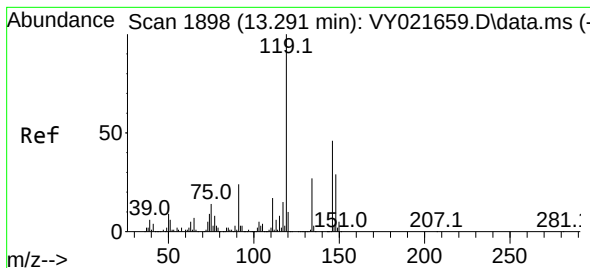
Tgt Ion:105 Resp: 327462

Ion Ratio Lower Upper

105 100

134 0.0 10.1 30.1#





#86

p-Isopropyltoluene

Concen: 1.031 ug/l

RT: 13.237 min Scan# 1889

Delta R.T. -0.055 min

Lab File: VY021771.D

Acq: 03 Apr 2025 14:20

Instrument :

MSVOA_Y

ClientSampleId :

PL-01-040225

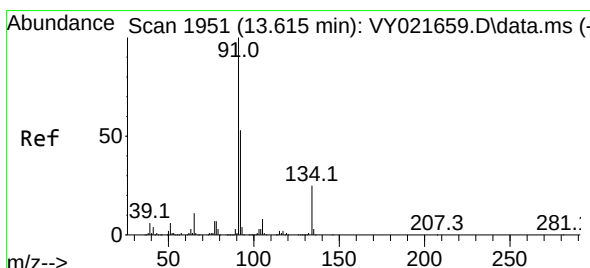
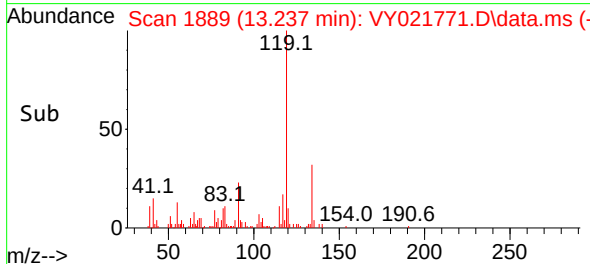
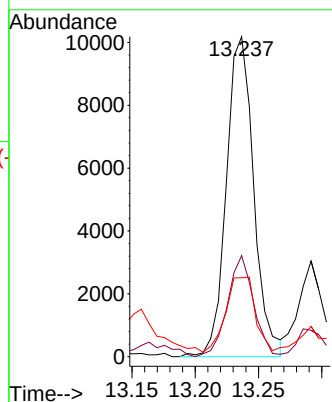
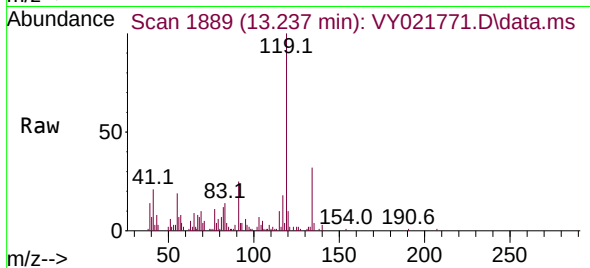
Tgt Ion:119 Resp: 15338

Ion Ratio Lower Upper

119 100

134 30.1 13.2 39.5

91 25.4 12.0 36.0



#89

n-Butylbenzene

Concen: 2.908 ug/l

RT: 13.584 min Scan# 1946

Delta R.T. -0.030 min

Lab File: VY021771.D

Acq: 03 Apr 2025 14:20

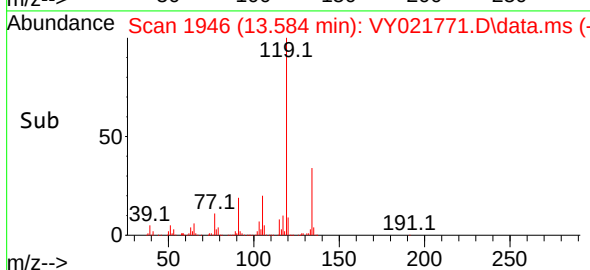
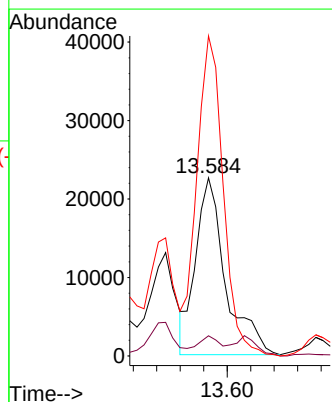
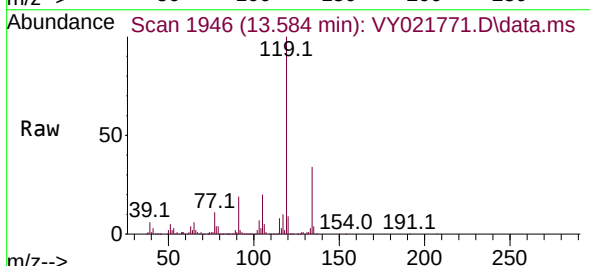
Tgt Ion: 91 Resp: 40015

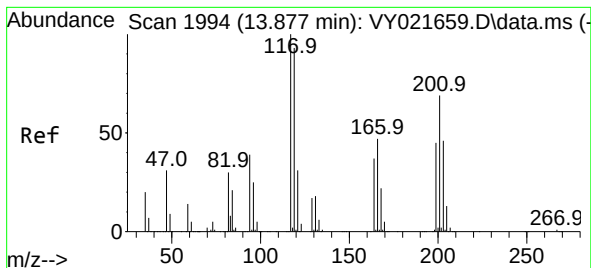
Ion Ratio Lower Upper

91 100

92 8.1 26.4 79.2#

134 160.4 12.8 38.4#





#90

Hexachloroethane

Concen: 4.626 ug/l

RT: 13.895 min Scan# 1994

Delta R.T. 0.018 min

Lab File: VY021771.D

Acq: 03 Apr 2025 14:20

Instrument :

MSVOA_Y

ClientSampleId :

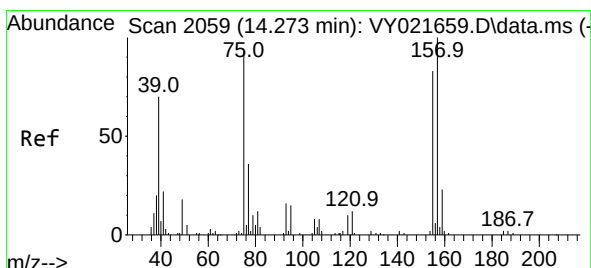
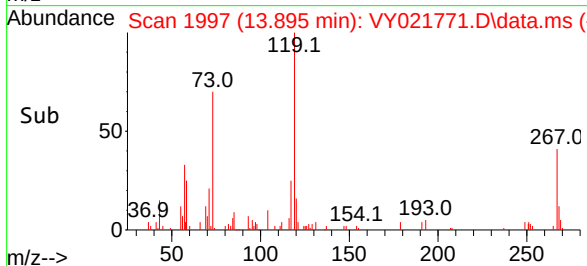
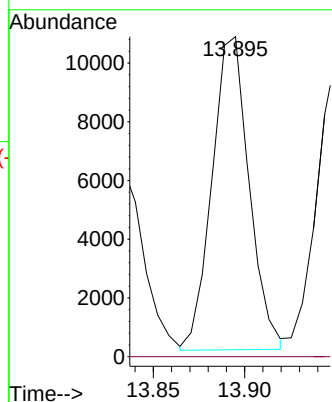
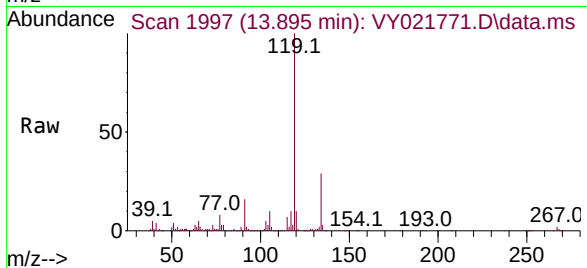
PL-01-040225

Tgt Ion:117 Resp: 15081

Ion Ratio Lower Upper

117 100

201 0.0 37.4 112.1#



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.522 ug/l

RT: 14.249 min Scan# 2055

Delta R.T. -0.024 min

Lab File: VY021771.D

Acq: 03 Apr 2025 14:20

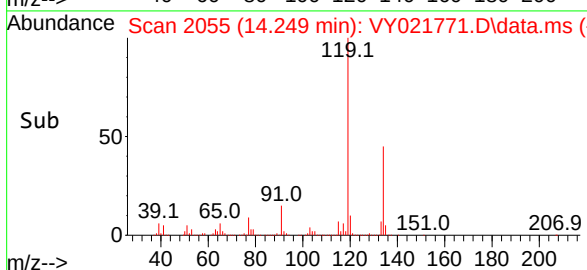
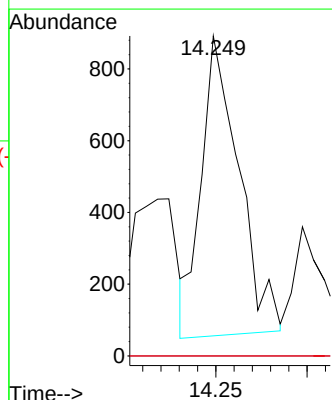
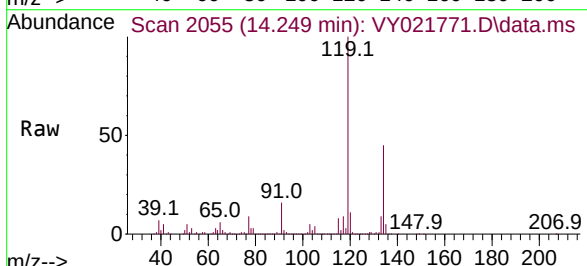
Tgt Ion: 75 Resp: 1189

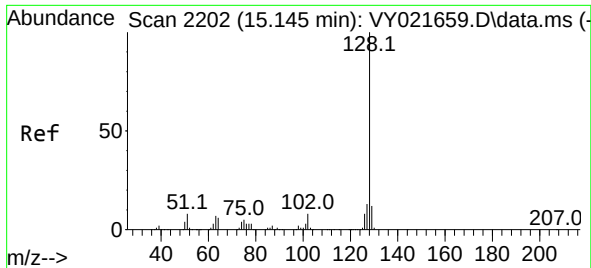
Ion Ratio Lower Upper

75 100

155 0.0 43.0 128.8#

157 0.0 54.0 162.0#





#95

Naphthalene

Concen: 6.652 ug/l

RT: 15.145 min Scan# 21

Delta R.T. 0.000 min

Lab File: VY021771.D

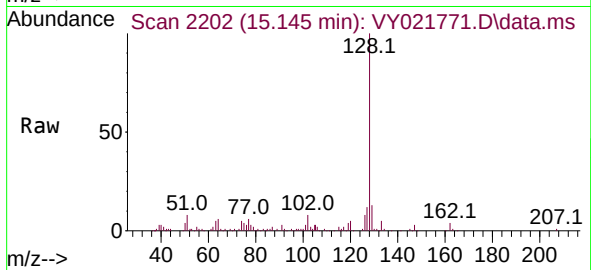
Acq: 03 Apr 2025 14:20

Instrument :

MSVOA_Y

ClientSampleId :

PL-01-040225



Tgt Ion:	128	Resp:	41664
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.8	16.2
129	12.1	8.8	13.2

