

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082925\
 Data File : VY023246.D
 Acq On : 29 Aug 2025 14:41
 Operator : SY/MD
 Sample : Q2983-01
 Misc : 5.52g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 LAW-25-0128

Quant Time: Aug 30 01:22:38 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

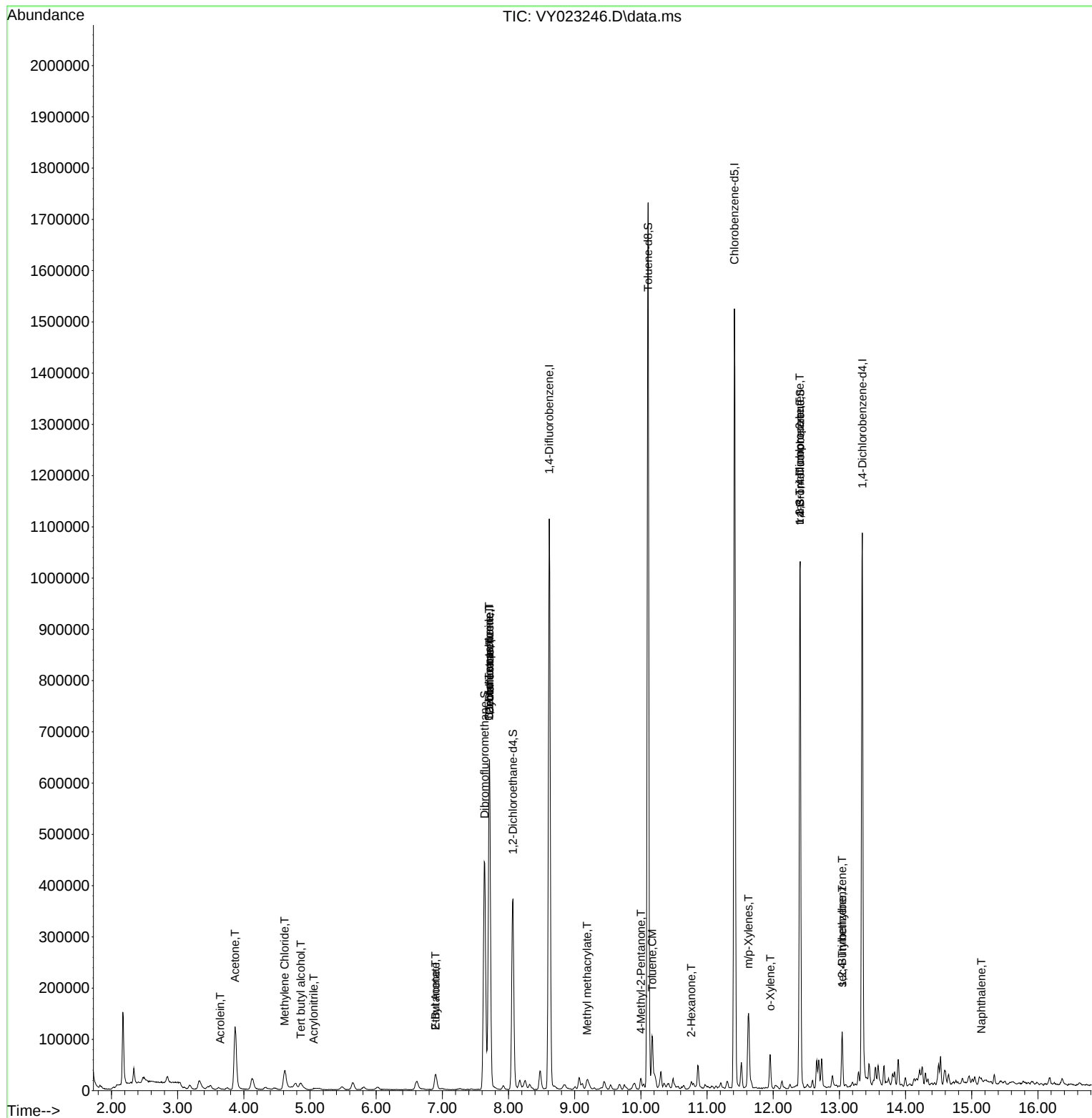
Internal Standards						
1) Pentafluorobenzene	7.713	168	522939	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	979785	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	838526	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	282939	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	289482	58.083	ug/l	0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	= 116.160%	
35) Dibromofluoromethane	7.640	113	322364	54.985	ug/l	0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	= 109.980%	
50) Toluene-d8	10.109	98	1145715	50.024	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 100.040%	
62) 4-Bromofluorobenzene	12.408	95	312657	42.448	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 84.900%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.860	59	21271	62.288	ug/l	99
13) Acrolein	3.641	56	924	1.848	ug/l #	1
15) Acrylonitrile	5.055	53	3287	2.941	ug/l #	73
16) Acetone	3.866	43	203647	188.606	ug/l	100
20) Methylene Chloride	4.616	84	28670	2.529	ug/l	95
25) 2-Butanone	6.896	43	45308	30.853	ug/l	96
31) Cyclohexane	7.713	56	12340	1.329	ug/l #	25
36) 1,1-Dichloropropene	7.707	75	37675	4.324	ug/l #	49
37) Ethyl Acetate	6.896	43	45308	12.379	ug/l #	68
38) Carbon Tetrachloride	7.707	117	49102	5.189	ug/l #	17
48) Methyl methacrylate	9.189	41	7299	2.062	ug/l #	37
51) 4-Methyl-2-Pentanone	9.999	43	13298	3.485	ug/l	94
52) Toluene	10.170	92	42021	2.464	ug/l	100
59) 2-Hexanone	10.761	43	7251	2.791	ug/l	90
68) m/p-Xylenes	11.627	106	46559	3.830	ug/l	95
69) o-Xylene	11.956	106	17162	1.507	ug/l	93
76) 1,2,3-Trichloropropane	12.401	75	158041	57.876	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.401	75	158041	140.100	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.042	105	54608	3.399	ug/l	96
85) sec-Butylbenzene	13.042	105	54608	2.550	ug/l #	56
95) Naphthalene	15.145	128	9041	1.088	ug/l	97

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

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Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
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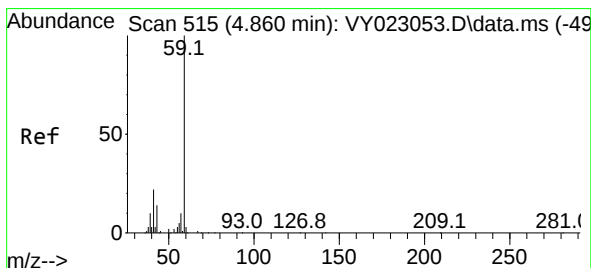
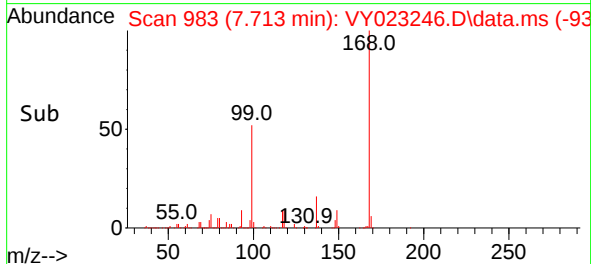
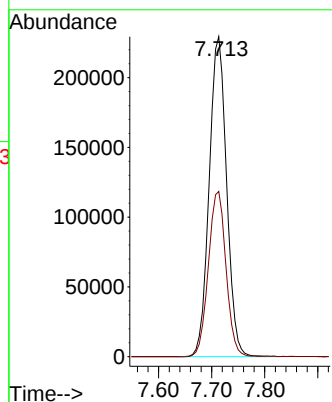
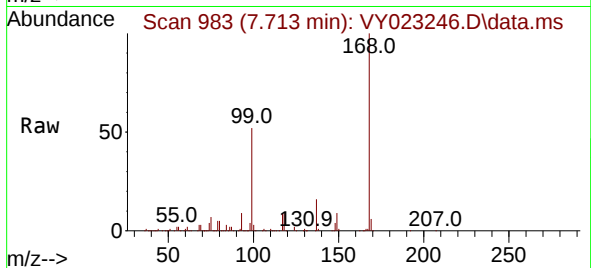




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023246.D
Acq: 29 Aug 2025 14:41

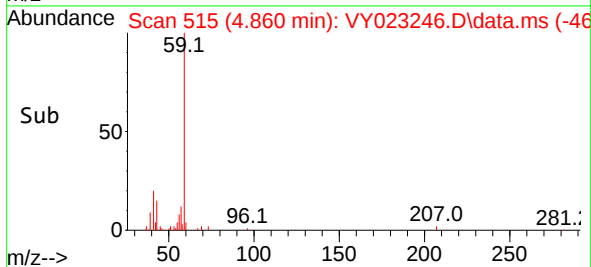
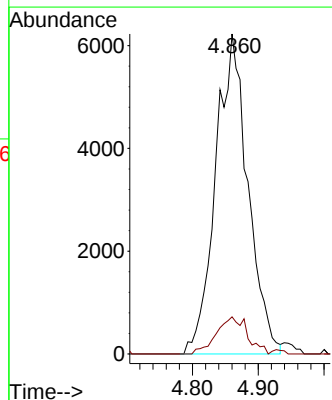
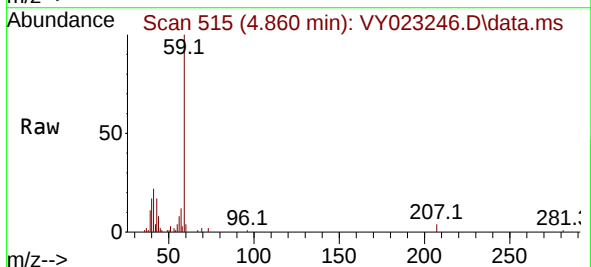
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0128

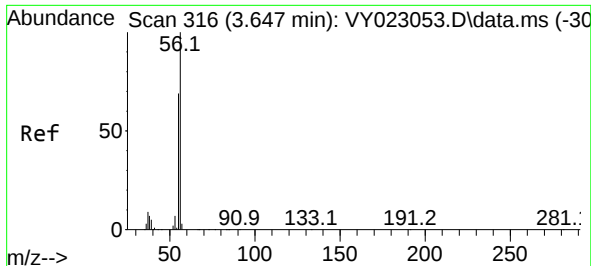
Tgt Ion:168 Resp: 522939
Ion Ratio Lower Upper
168 100
99 51.6 42.8 64.2



#11
Tert butyl alcohol
Concen: 62.288 ug/l
RT: 4.860 min Scan# 515
Delta R.T. 0.000 min
Lab File: VY023246.D
Acq: 29 Aug 2025 14:41

Tgt Ion: 59 Resp: 21271
Ion Ratio Lower Upper
59 100
57 11.1 8.6 13.0

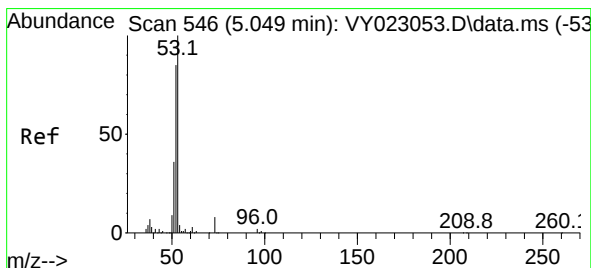
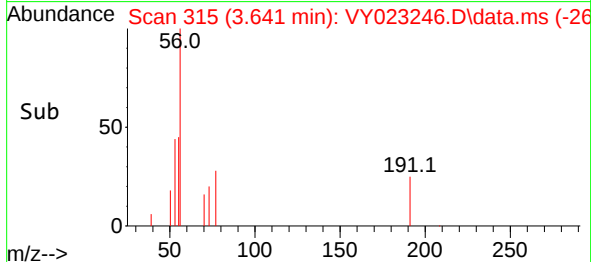
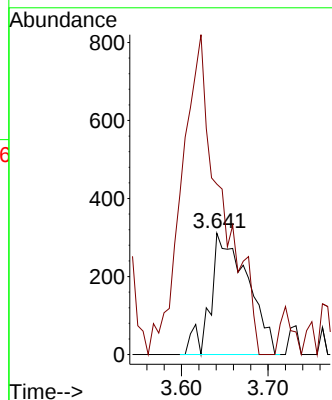
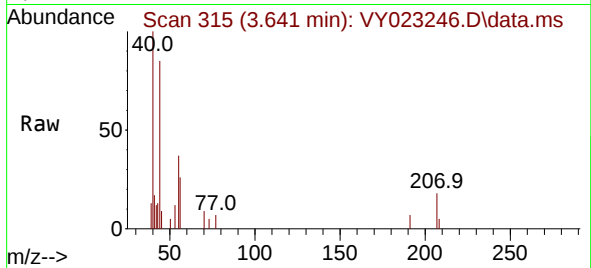




#13
Acrolein
Concen: 1.848 ug/l
RT: 3.641 min Scan# 316
Delta R.T. -0.006 min
Lab File: VY023246.D
Acq: 29 Aug 2025 14:41

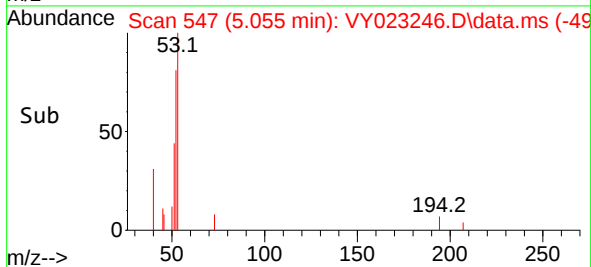
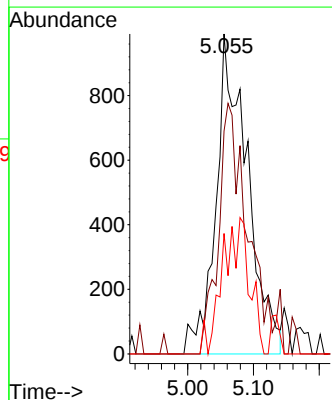
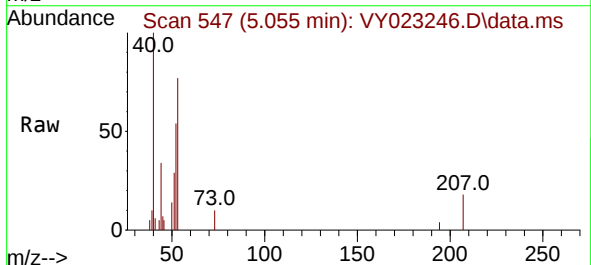
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0128

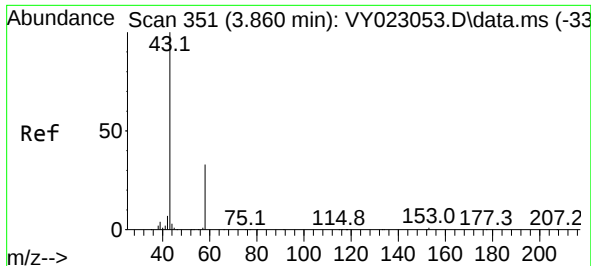
Tgt Ion: 56 Resp: 924
Ion Ratio Lower Upper
56 100
55 280.6 55.2 82.8#



#15
Acrylonitrile
Concen: 2.941 ug/l
RT: 5.055 min Scan# 547
Delta R.T. 0.006 min
Lab File: VY023246.D
Acq: 29 Aug 2025 14:41

Tgt Ion: 53 Resp: 3287
Ion Ratio Lower Upper
53 100
52 72.0 65.3 97.9
51 0.0 29.5 44.3#

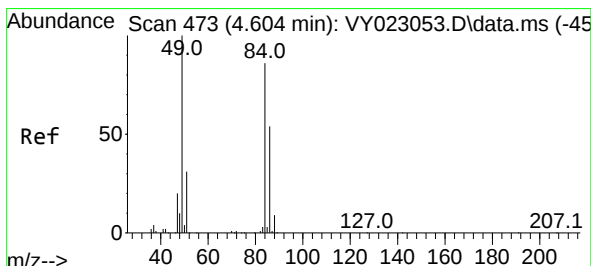
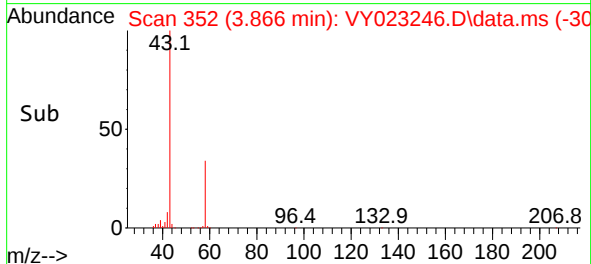
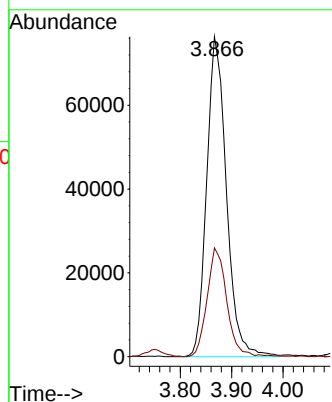
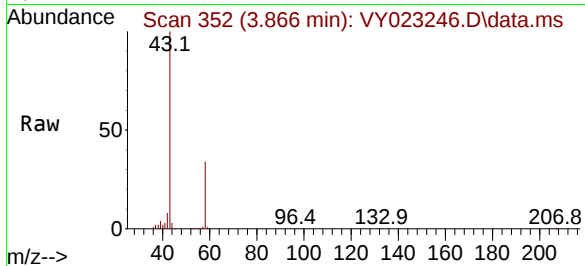




#16
Acetone
Concen: 188.606 ug/l
RT: 3.866 min Scan# 311
Delta R.T. 0.006 min
Lab File: VY023246.D
Acq: 29 Aug 2025 14:41

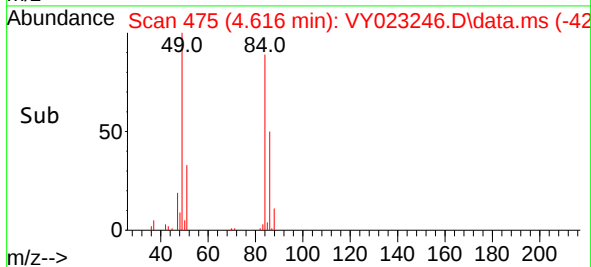
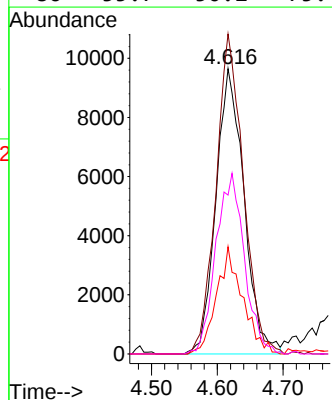
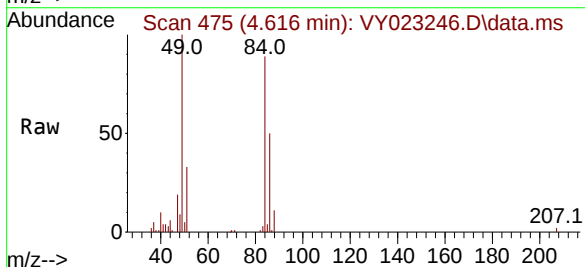
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0128

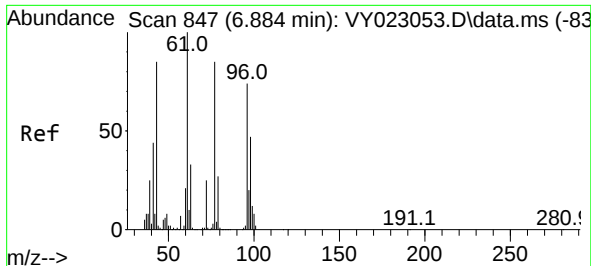
Tgt Ion: 43 Resp: 203647
Ion Ratio Lower Upper
43 100
58 33.8 27.1 40.7



#20
Methylene Chloride
Concen: 2.529 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.012 min
Lab File: VY023246.D
Acq: 29 Aug 2025 14:41

Tgt Ion: 84 Resp: 28670
Ion Ratio Lower Upper
84 100
49 112.2 93.0 139.6
51 37.6 29.0 43.4
86 55.7 50.2 75.4

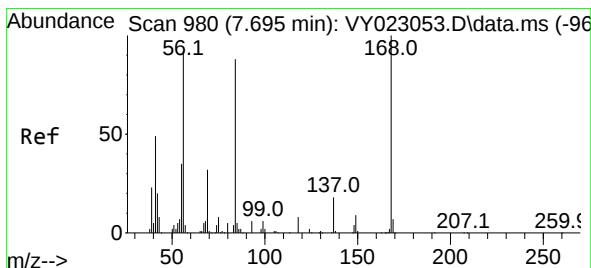
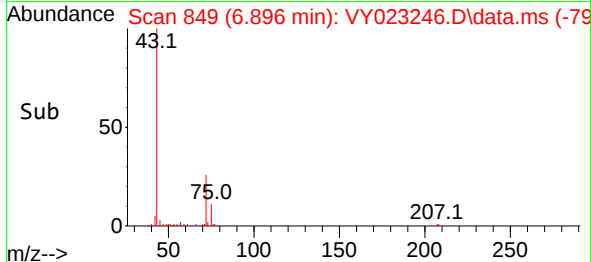
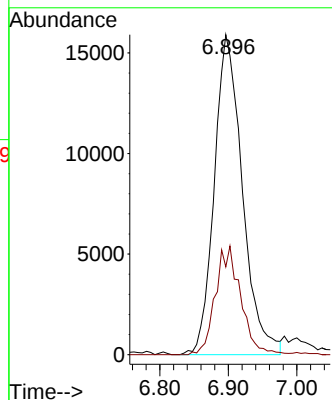
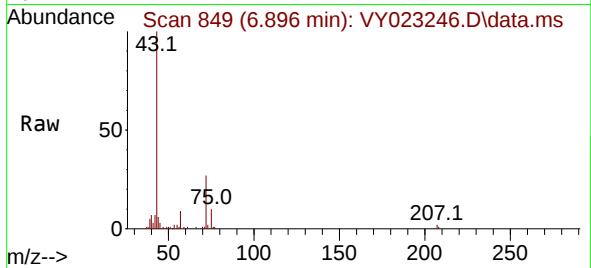




#25
2-Butanone
Concen: 30.853 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.012 min
Lab File: VY023246.D
Acq: 29 Aug 2025 14:41

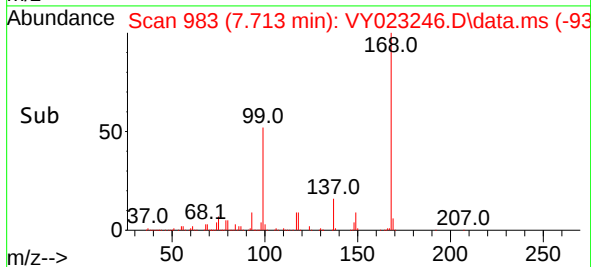
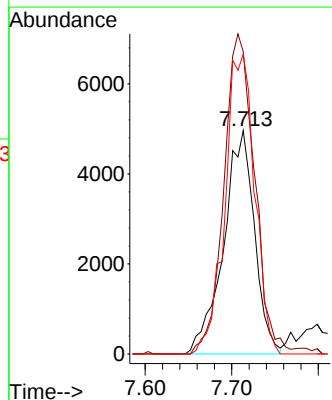
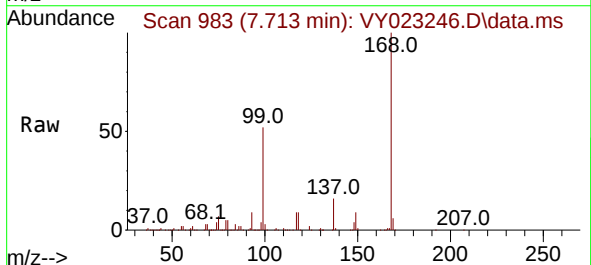
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0128

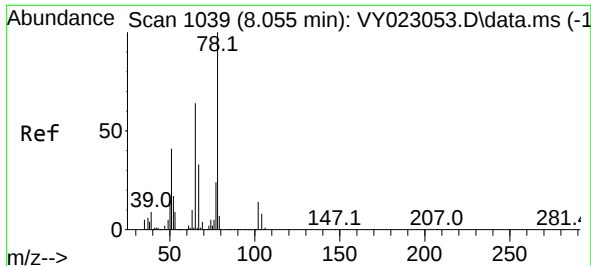
Tgt Ion: 43 Resp: 45308
Ion Ratio Lower Upper
43 100
72 27.5 23.5 35.3



#31
Cyclohexane
Concen: 1.329 ug/l
RT: 7.713 min Scan# 983
Delta R.T. 0.018 min
Lab File: VY023246.D
Acq: 29 Aug 2025 14:41

Tgt Ion: 56 Resp: 12340
Ion Ratio Lower Upper
56 100
69 135.3 28.2 42.2#
84 134.2 76.6 114.8#





#33

1,2-Dichloroethane-d4

Concen: 58.083 ug/l

RT: 8.067 min Scan# 110

Delta R.T. 0.012 min

Lab File: VY023246.D

Acq: 29 Aug 2025 14:41

Instrument :

MSVOA_Y

ClientSampleId :

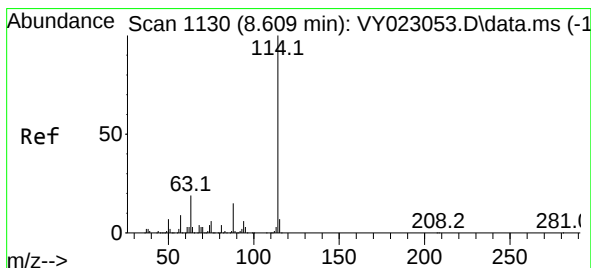
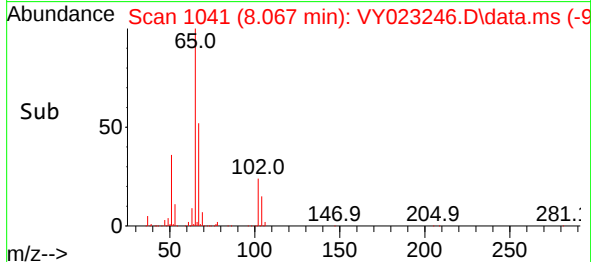
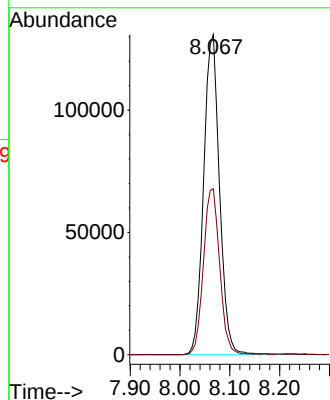
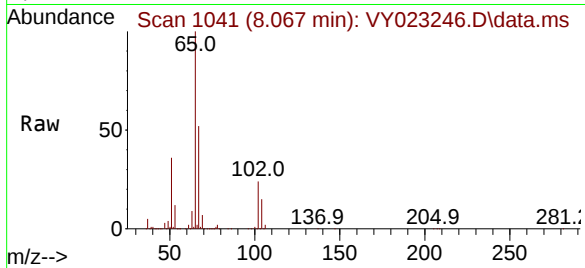
LAW-25-0128

Tgt Ion: 65 Resp: 289482

Ion Ratio Lower Upper

65 100

67 52.9 0.0 106.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.006 min

Lab File: VY023246.D

Acq: 29 Aug 2025 14:41

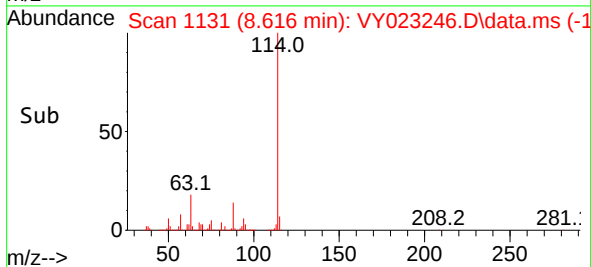
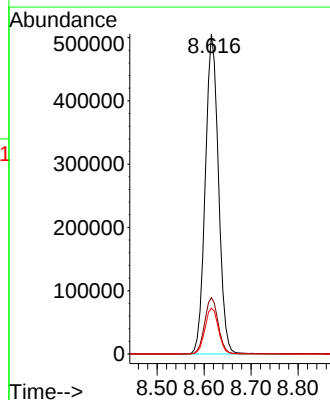
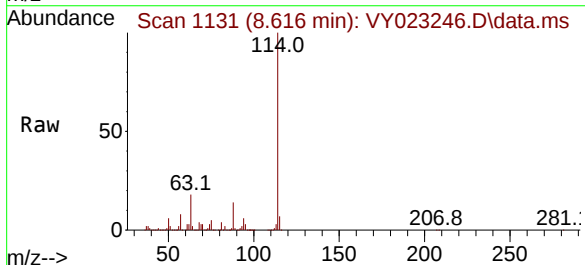
Tgt Ion: 114 Resp: 979785

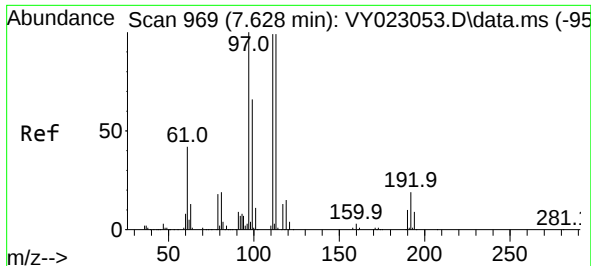
Ion Ratio Lower Upper

114 100

63 17.6 0.0 38.4

88 14.3 0.0 30.0

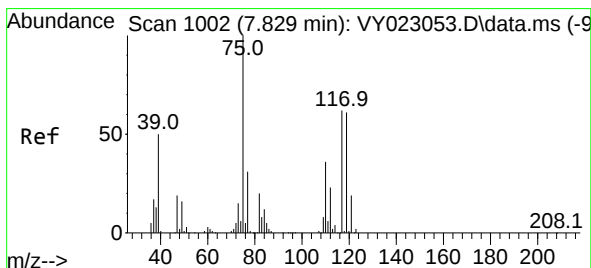
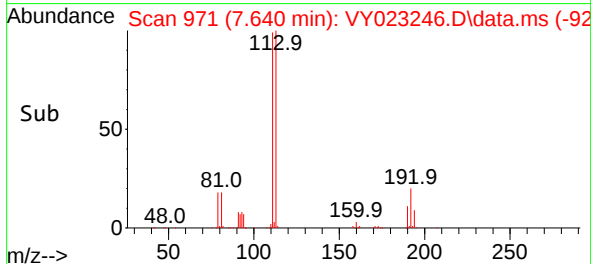
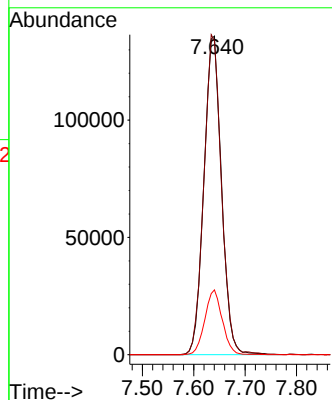
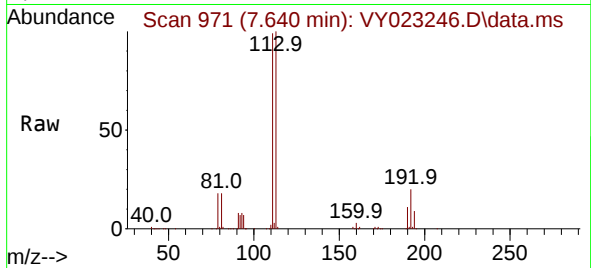




#35
Dibromofluoromethane
Concen: 54.985 ug/l
RT: 7.640 min Scan# 91
Delta R.T. 0.012 min
Lab File: VY023246.D
Acq: 29 Aug 2025 14:41

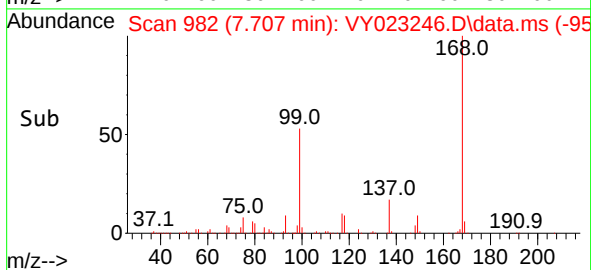
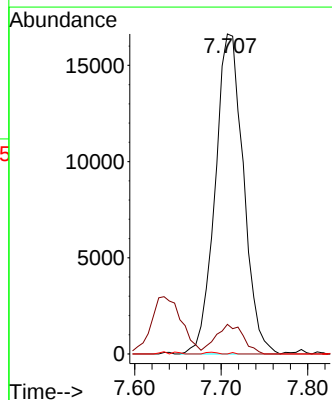
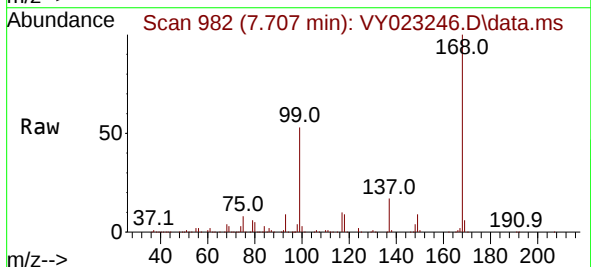
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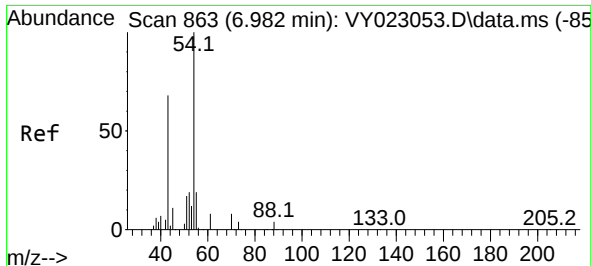
Tgt Ion:113 Resp: 322364
Ion Ratio Lower Upper
113 100
111 100.4 81.1 121.7
192 20.2 16.2 24.4



#36
1,1-Dichloropropene
Concen: 4.324 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.122 min
Lab File: VY023246.D
Acq: 29 Aug 2025 14:41

Tgt Ion: 75 Resp: 37675
Ion Ratio Lower Upper
75 100
110 9.0 18.1 54.4#
77 0.0 24.6 37.0#





#37

Ethyl Acetate

Concen: 12.379 ug/l

RT: 6.896 min Scan# 84

Delta R.T. -0.085 min

Lab File: VY023246.D

Acq: 29 Aug 2025 14:41

Instrument :

MSVOA_Y

ClientSampleId :

LAW-25-0128

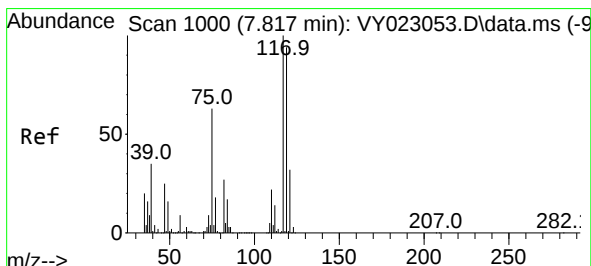
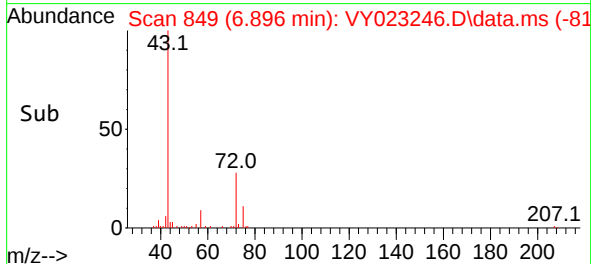
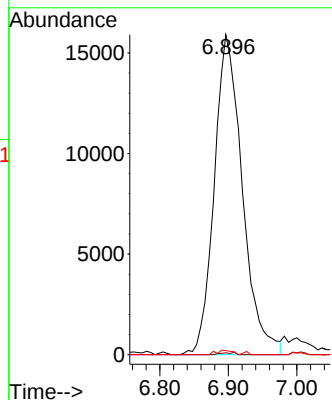
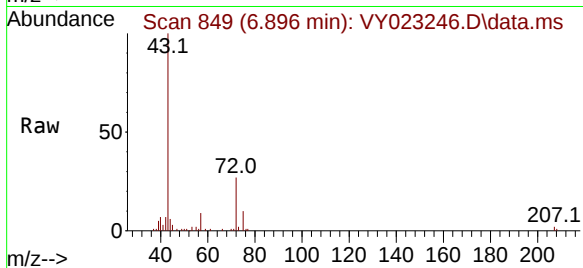
Tgt Ion: 43 Resp: 45308

Ion Ratio Lower Upper

43 100

61 0.0 11.9 17.9#

70 0.8 8.8 13.2#



#38

Carbon Tetrachloride

Concen: 5.189 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.110 min

Lab File: VY023246.D

Acq: 29 Aug 2025 14:41

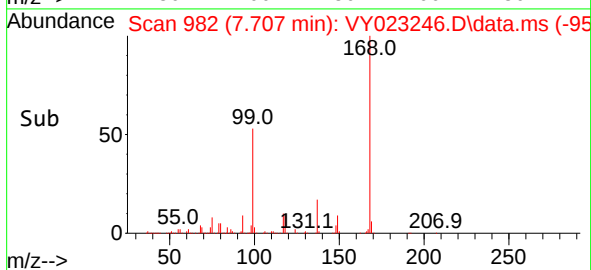
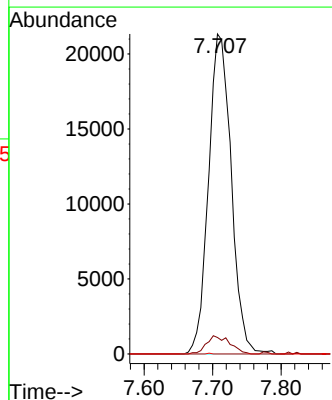
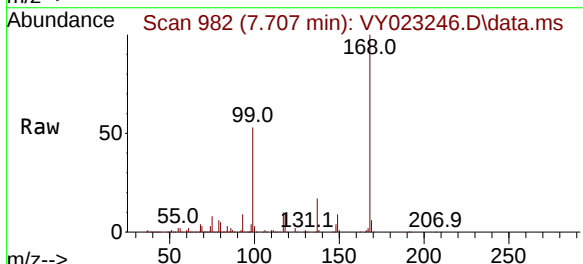
Tgt Ion: 117 Resp: 49102

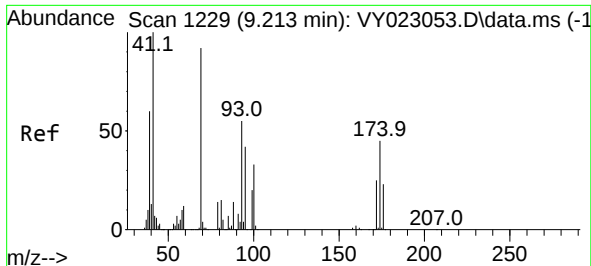
Ion Ratio Lower Upper

117 100

119 5.1 75.6 113.4#

121 0.0 25.8 38.8#





#48

Methyl methacrylate

Concen: 2.062 ug/l

RT: 9.189 min Scan# 11

Delta R.T. -0.024 min

Lab File: VY023246.D

Acq: 29 Aug 2025 14:41

Instrument :

MSVOA_Y

ClientSampleId :

LAW-25-0128

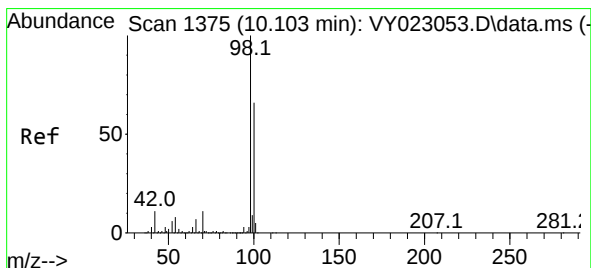
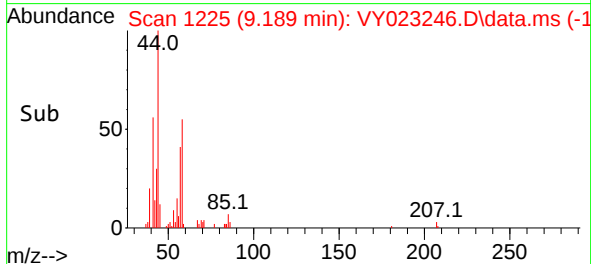
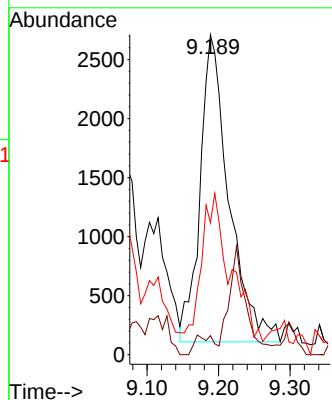
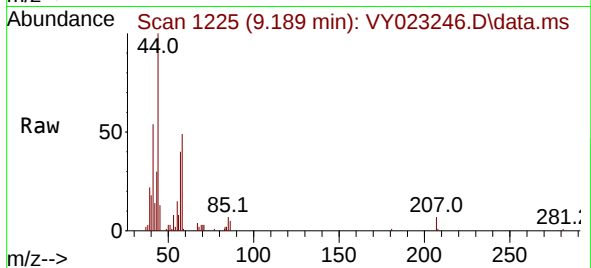
Tgt Ion: 41 Resp: 7299

Ion Ratio Lower Upper

41 100

69 0.0 73.2 109.8#

39 50.0 47.0 70.4



#50

Toluene-d8

Concen: 50.024 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.006 min

Lab File: VY023246.D

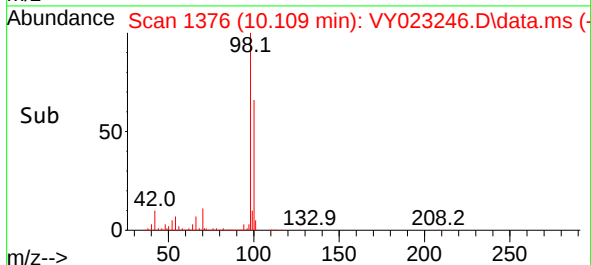
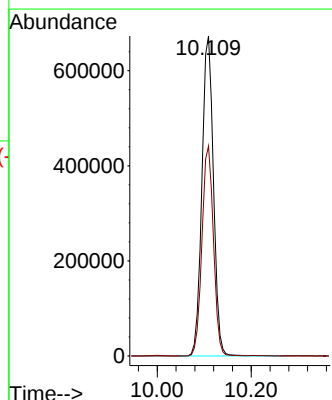
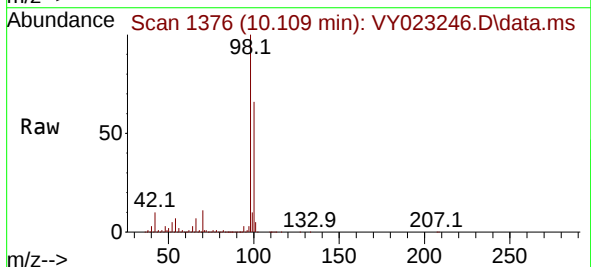
Acq: 29 Aug 2025 14:41

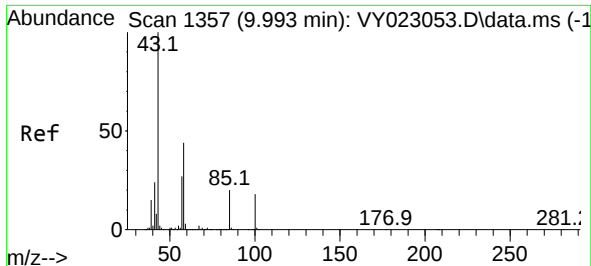
Tgt Ion: 98 Resp: 1145715

Ion Ratio Lower Upper

98 100

100 65.4 52.3 78.5

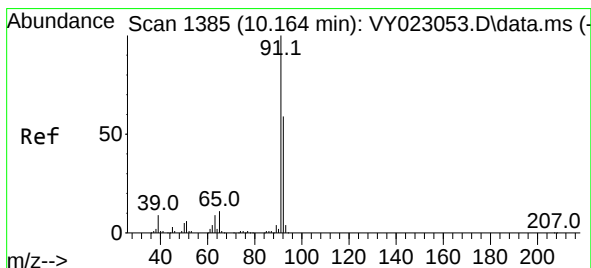
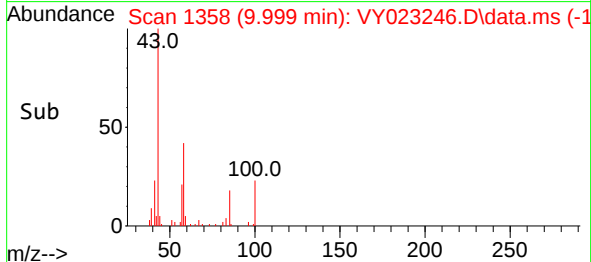
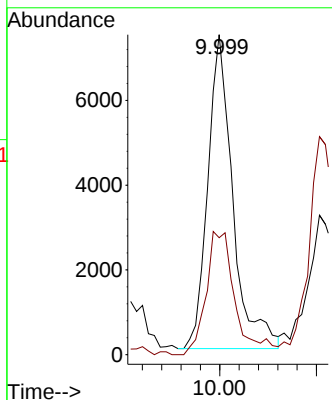
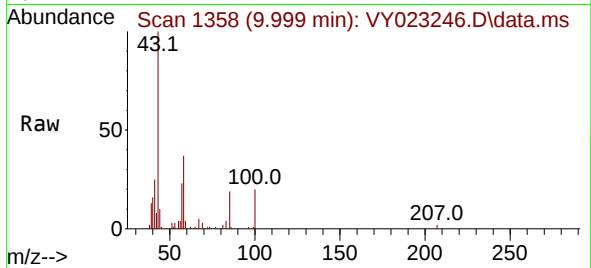




#51
4-Methyl-2-Pentanone
Concen: 3.485 ug/l
RT: 9.999 min Scan# 1357
Delta R.T. 0.006 min
Lab File: VY023246.D
Acq: 29 Aug 2025 14:41

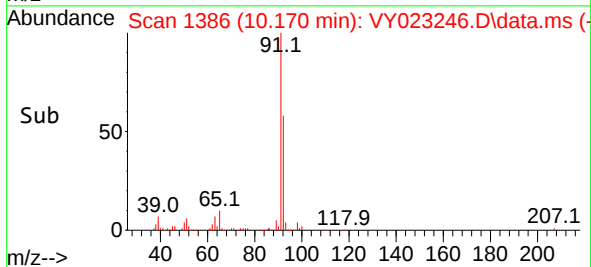
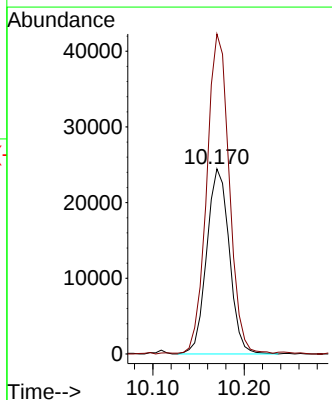
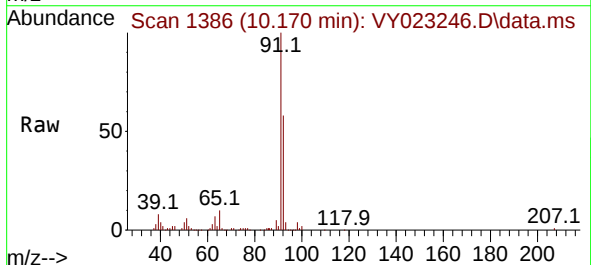
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0128

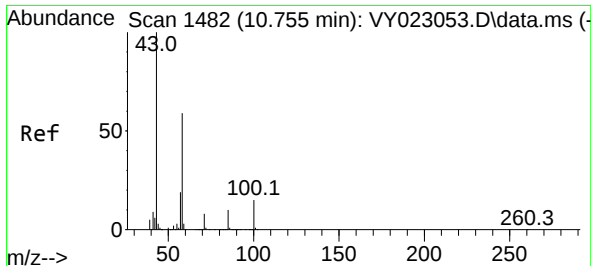
Tgt Ion: 43 Resp: 13298
Ion Ratio Lower Upper
43 100
58 45.6 33.5 50.3



#52
Toluene
Concen: 2.464 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.006 min
Lab File: VY023246.D
Acq: 29 Aug 2025 14:41

Tgt Ion: 92 Resp: 42021
Ion Ratio Lower Upper
92 100
91 171.1 136.4 204.6

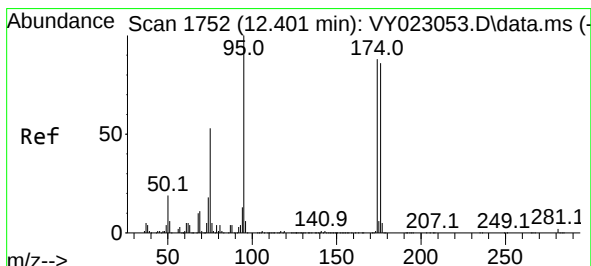
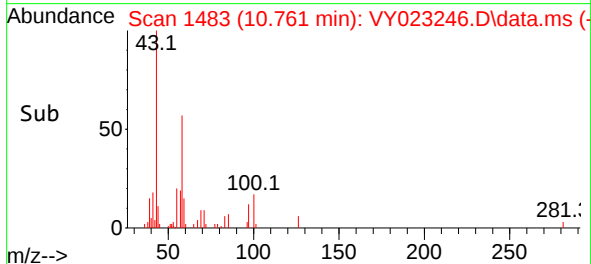
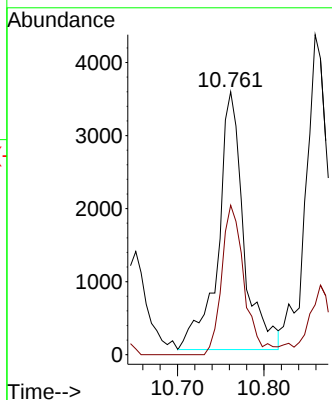
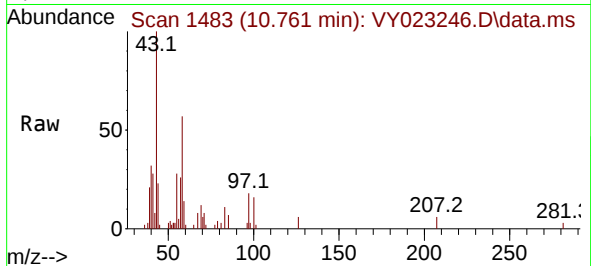




#59
2-Hexanone
Concen: 2.791 ug/l
RT: 10.761 min Scan# 1482
Delta R.T. 0.006 min
Lab File: VY023246.D
Acq: 29 Aug 2025 14:41

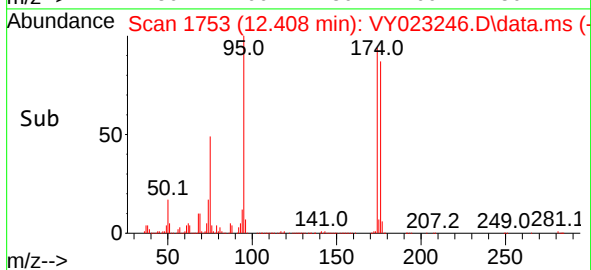
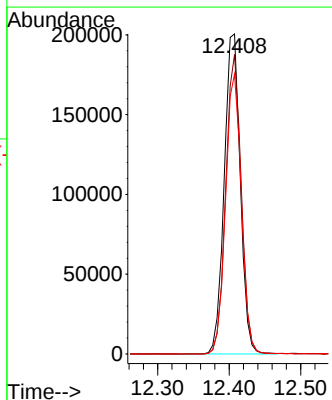
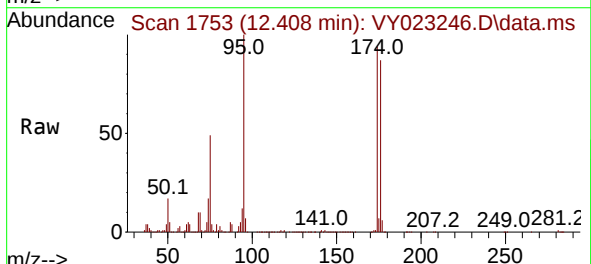
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0128

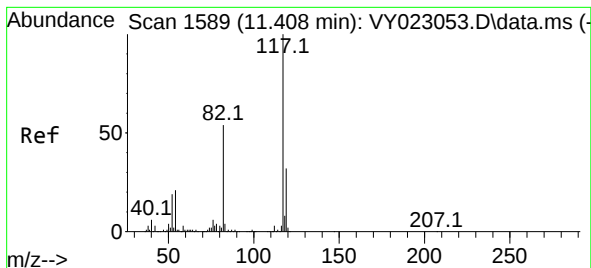
Tgt Ion: 43 Resp: 7251
Ion Ratio Lower Upper
43 100
58 51.2 29.5 88.5



#62
4-Bromofluorobenzene
Concen: 42.448 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023246.D
Acq: 29 Aug 2025 14:41

Tgt Ion: 95 Resp: 312657
Ion Ratio Lower Upper
95 100
174 90.8 0.0 171.6
176 86.3 0.0 167.6

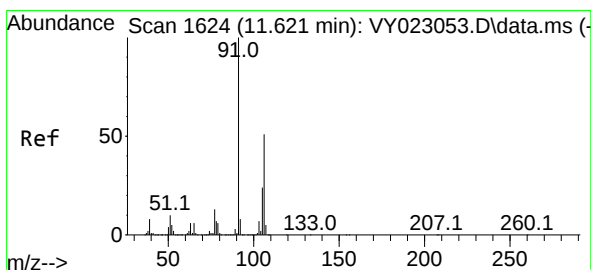
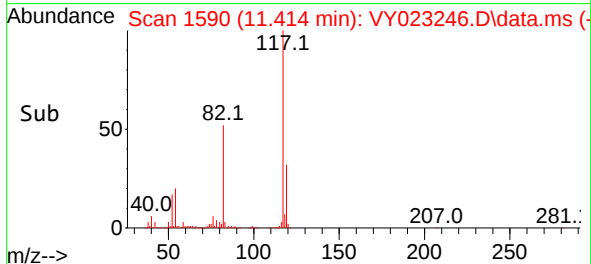
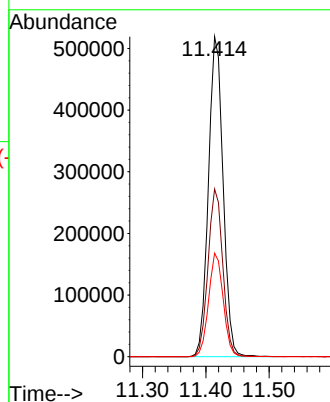
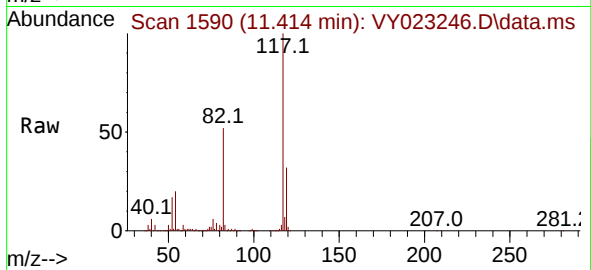




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 117
Delta R.T. 0.006 min
Lab File: VY023246.D
Acq: 29 Aug 2025 14:41

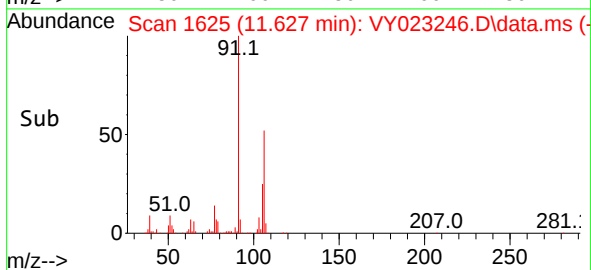
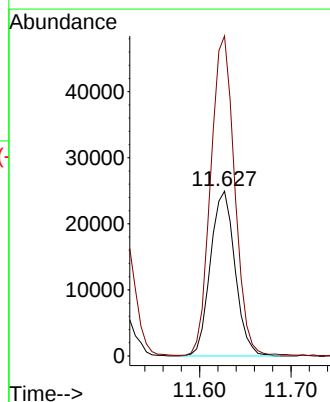
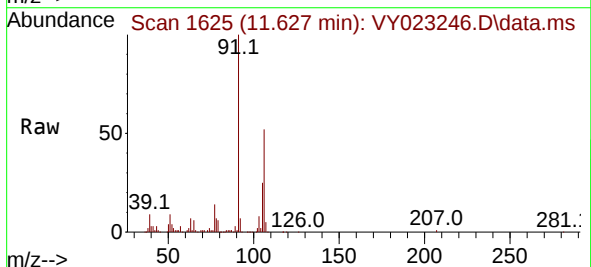
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0128

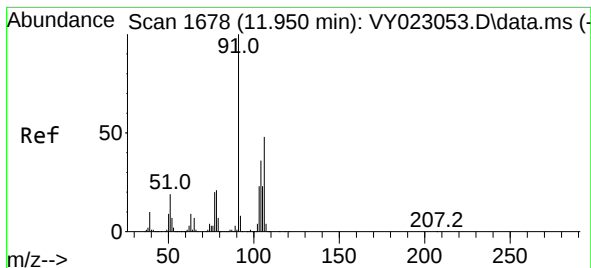
Tgt Ion:117 Resp: 838526
Ion Ratio Lower Upper
117 100
82 52.4 43.4 65.0
119 32.4 25.6 38.4



#68
m/p-Xylenes
Concen: 3.830 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.006 min
Lab File: VY023246.D
Acq: 29 Aug 2025 14:41

Tgt Ion:106 Resp: 46559
Ion Ratio Lower Upper
106 100
91 190.2 158.6 238.0





#69

o-Xylene

Concen: 1.507 ug/l

RT: 11.956 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY023246.D

Acq: 29 Aug 2025 14:41

Instrument :

MSVOA_Y

ClientSampleId :

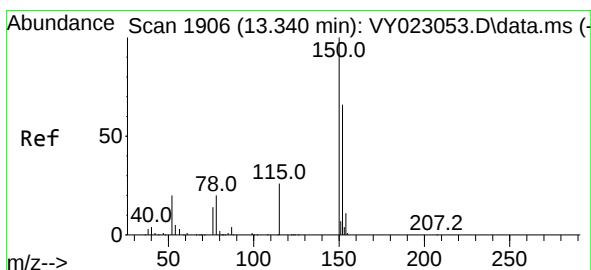
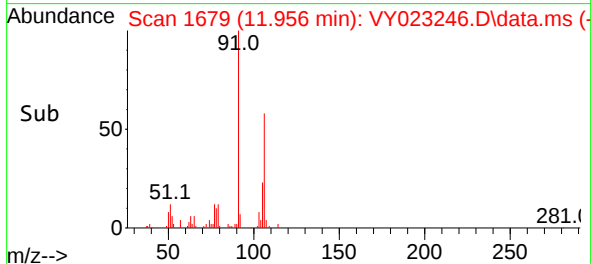
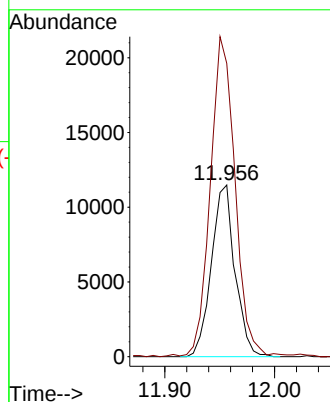
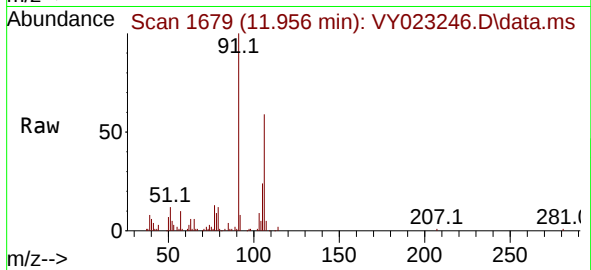
LAW-25-0128

Tgt Ion:106 Resp: 17162

Ion Ratio Lower Upper

106 100

91 196.2 103.2 309.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. 0.006 min

Lab File: VY023246.D

Acq: 29 Aug 2025 14:41

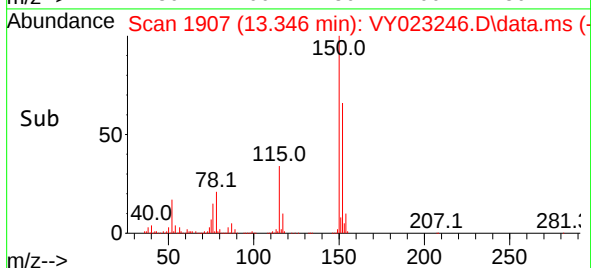
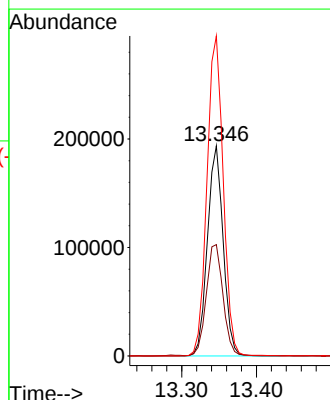
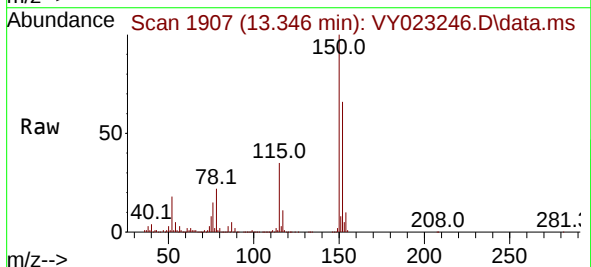
Tgt Ion:152 Resp: 282939

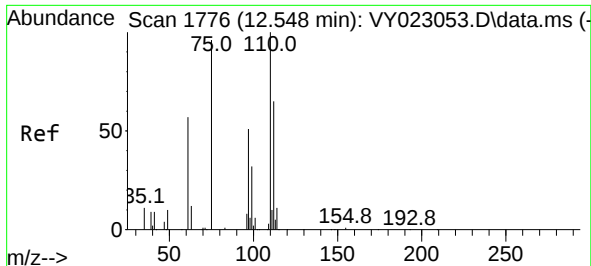
Ion Ratio Lower Upper

152 100

115 56.2 28.2 84.6

150 157.1 0.0 348.0

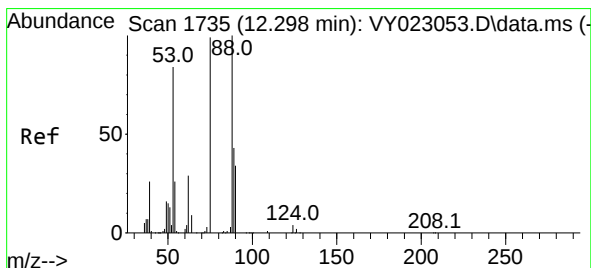
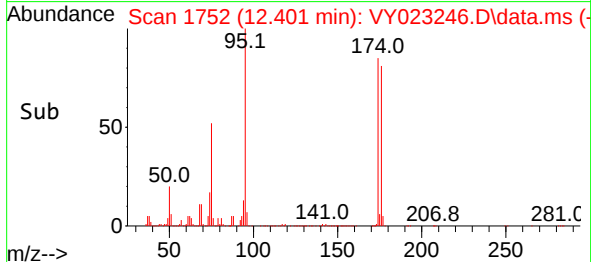
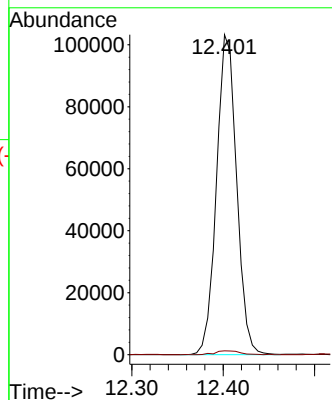
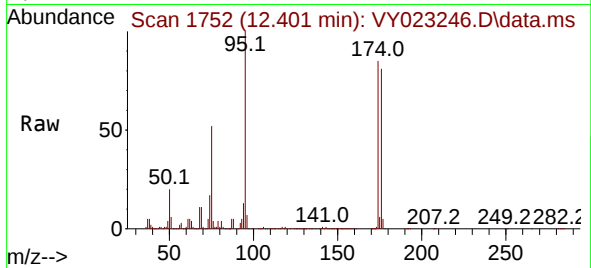




#76
1,2,3-Trichloropropane
Concen: 57.876 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.146 min
Lab File: VY023246.D
Acq: 29 Aug 2025 14:41

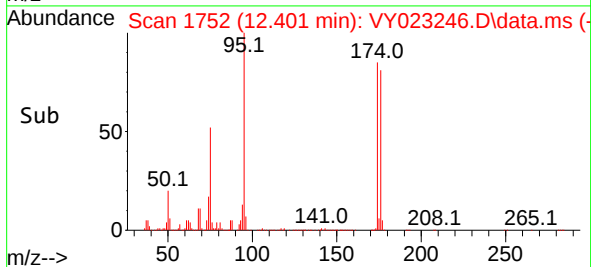
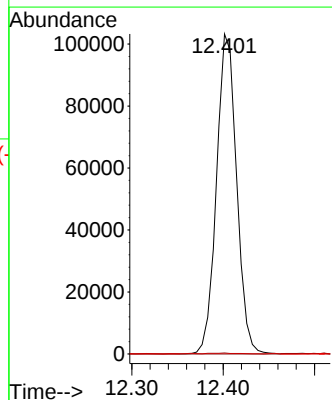
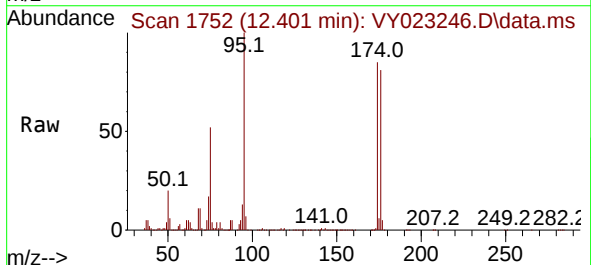
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0128

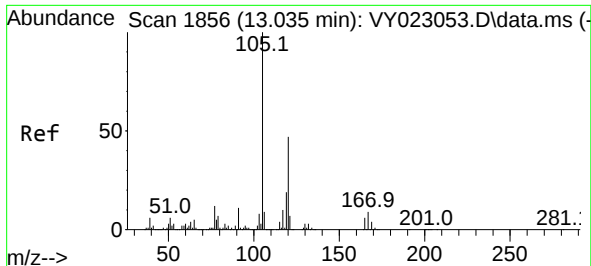
Tgt Ion: 75 Resp: 158041
Ion Ratio Lower Upper
75 100
77 1.5 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 140.100 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.104 min
Lab File: VY023246.D
Acq: 29 Aug 2025 14:41

Tgt Ion: 75 Resp: 158041
Ion Ratio Lower Upper
75 100
53 0.4 70.8 106.2#
89 0.0 38.1 57.1#

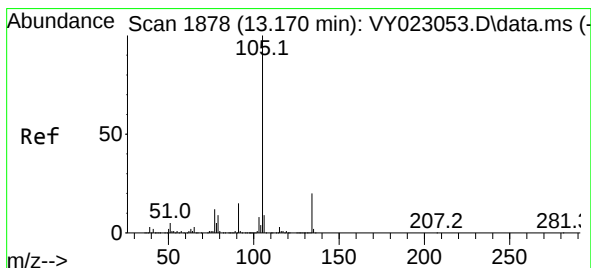
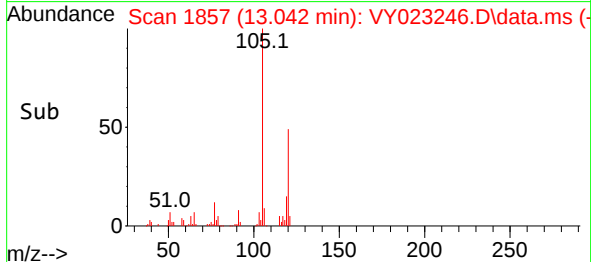
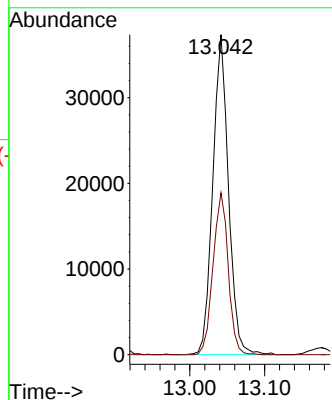
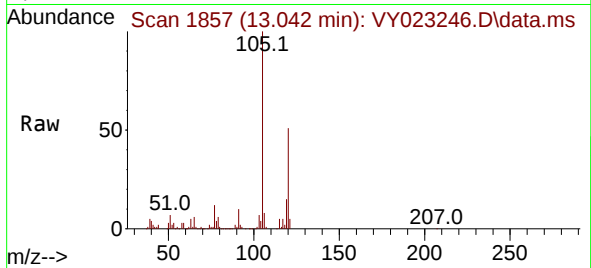




#84
1,2,4-Trimethylbenzene
Concen: 3.399 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.006 min
Lab File: VY023246.D
Acq: 29 Aug 2025 14:41

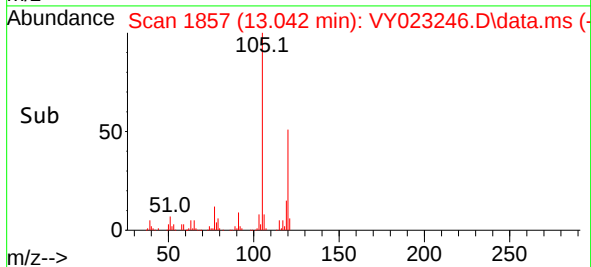
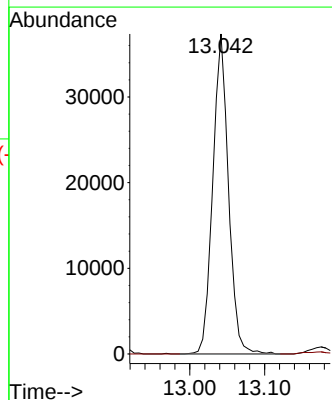
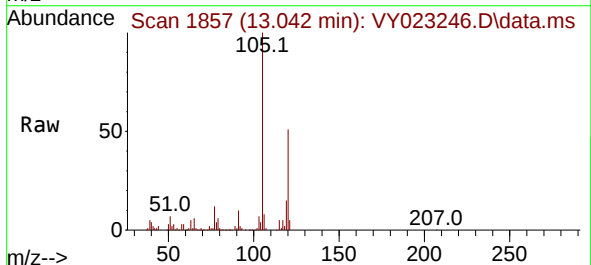
Instrument :
MSVOA_Y
ClientSampleId :
LAW-25-0128

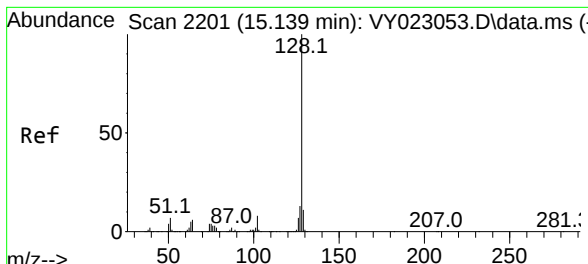
Tgt Ion:105 Resp: 54608
Ion Ratio Lower Upper
105 100
120 48.9 23.0 69.0



#85
sec-Butylbenzene
Concen: 2.550 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. -0.128 min
Lab File: VY023246.D
Acq: 29 Aug 2025 14:41

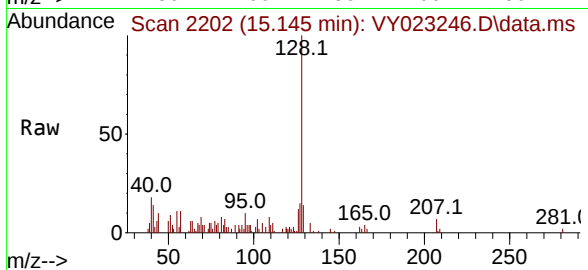
Tgt Ion:105 Resp: 54608
Ion Ratio Lower Upper
105 100
134 0.0 10.2 30.4#





#95
 Naphthalene
 Concen: 1.088 ug/l
 RT: 15.145 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VY023246.D
 Acq: 29 Aug 2025 14:41

Instrument :
 MSVOA_Y
 ClientSampleId :
 LAW-25-0128



Tgt Ion:	128	Resp:	9041
Ion	Ratio	Lower	Upper
128	100		
127	14.9	10.4	15.6
129	11.4	9.0	13.4

