

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY040725\
 Data File : VY021802.D
 Acq On : 07 Apr 2025 16:42
 Operator : SY/MD
 Sample : Q1737-01
 Misc : 5.05g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 RT3069

Quant Time: Apr 08 03:35:23 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)

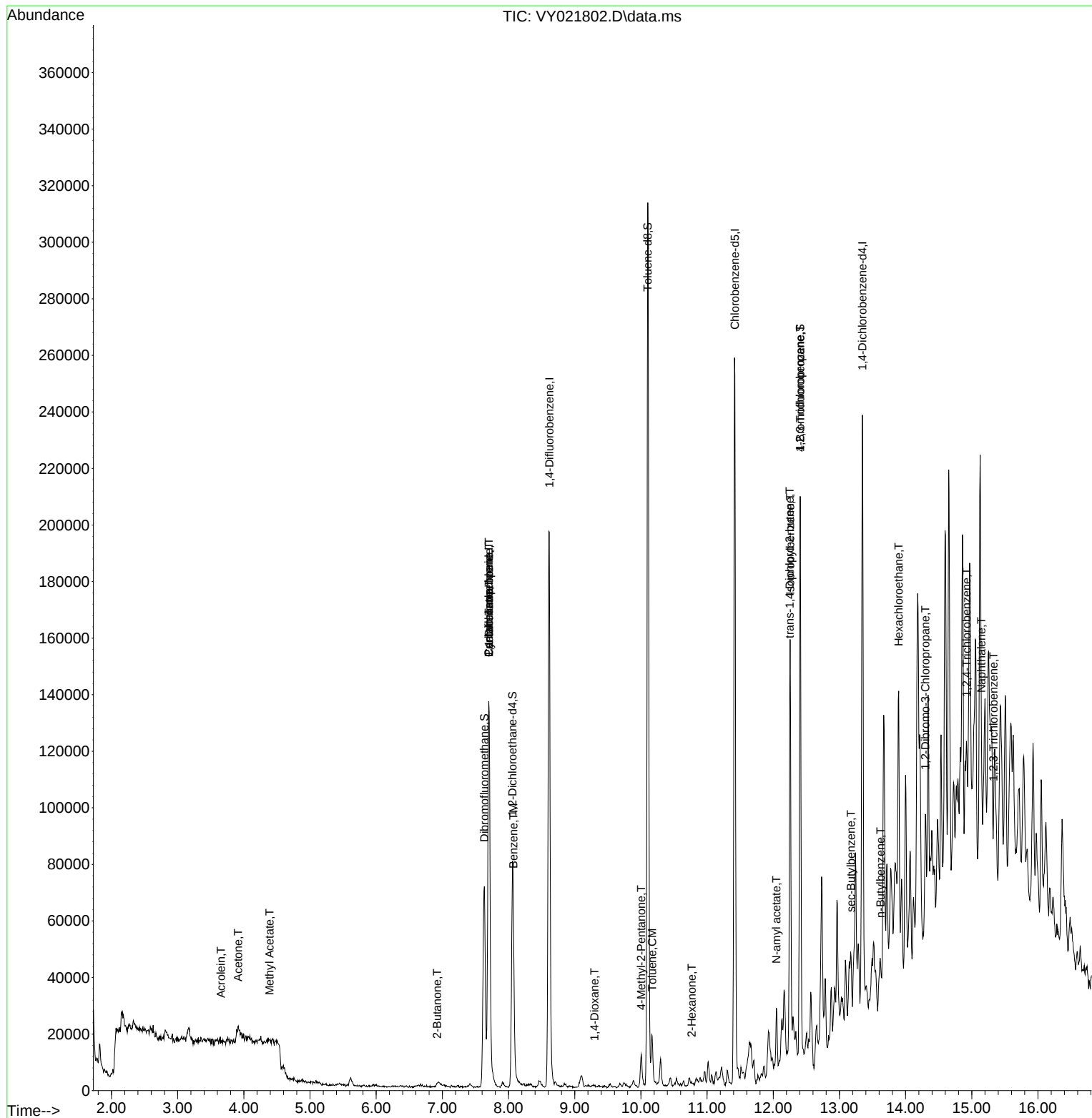
Internal Standards						
1) Pentafluorobenzene	7.701	168	107704	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	172198	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	137773	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	53816	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	57767	49.503	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	99.000%		
35) Dibromofluoromethane	7.634	113	52383	46.895	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	93.800%		
50) Toluene-d8	10.103	98	201437	47.403	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	94.800%		
62) 4-Bromofluorobenzene	12.408	95	57904	40.285	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	80.560%		
Target Compounds					Qvalue	
13) Acrolein	3.653	56	440	3.179	ug/l #	14
16) Acetone	3.915	43	13432	56.242	ug/l	96
18) Methyl Acetate	4.391	43	660	1.115	ug/l	95
20) Methylene Chloride	4.586	84	2625	Below Cal	#	90
25) 2-Butanone	6.921	43	1744	5.113	ug/l	92
31) Cyclohexane	7.701	56	3275	1.590	ug/l #	39
36) 1,1-Dichloropropene	7.701	75	8940	5.254	ug/l #	52
38) Carbon Tetrachloride	7.701	117	10628	5.454	ug/l #	18
40) Benzene	8.073	78	15683	3.078	ug/l	97
49) 1,4-Dioxane	9.299	88	19	2.552	ug/l #	1
51) 4-Methyl-2-Pentanone	10.006	43	7948	10.037	ug/l	99
52) Toluene	10.170	92	6603	2.077	ug/l	98
59) 2-Hexanone	10.768	43	1093	2.073	ug/l	85
73) Isopropylbenzene	12.255	105	87666	21.932	ug/l	99
74) N-amyl acetate	12.048	43	4984	5.313	ug/l #	79
76) 1,2,3-Trichloropropane	12.408	75	31040	58.187	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.249	75	1217	5.257	ug/l #	63
85) sec-Butylbenzene	13.176	105	7897	1.857	ug/l #	74
89) n-Butylbenzene	13.621	91	8293	2.551	ug/l #	88
90) Hexachloroethane	13.895	117	3961	5.143	ug/l #	12
92) 1,2-Dibromo-3-Chloropr...	14.298	75	129	1.158	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.919	180	2872	3.218	ug/l #	1
95) Naphthalene	15.145	128	13400	9.057	ug/l #	85
96) 1,2,3-Trichlorobenzene	15.328	180	1958	2.572	ug/l #	1

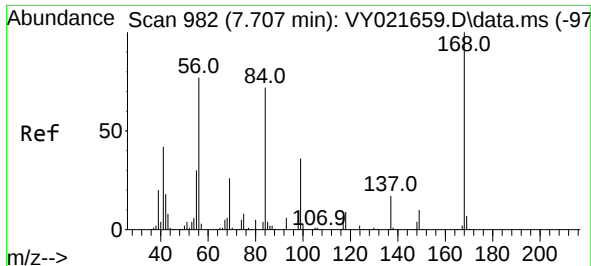
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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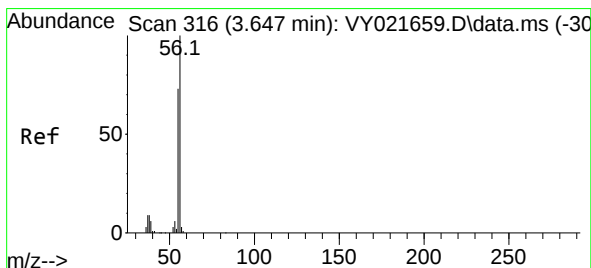
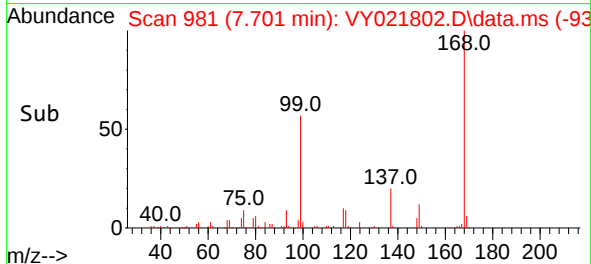
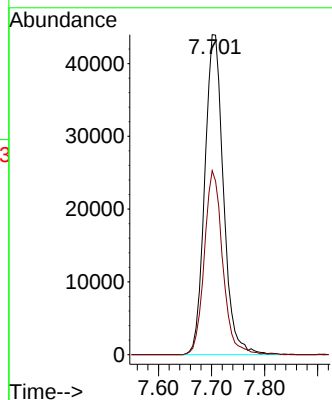
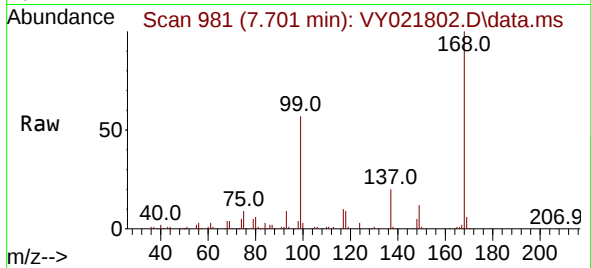




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY021802.D
Acq: 07 Apr 2025 16:42

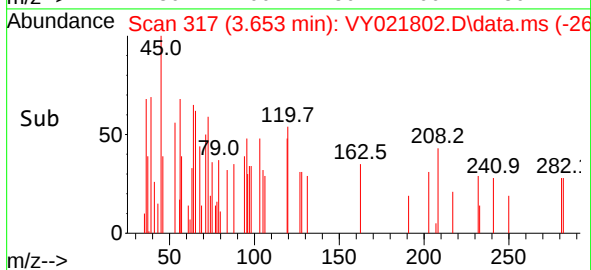
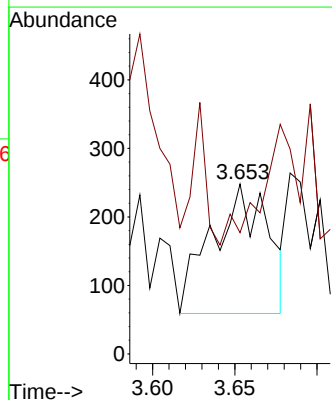
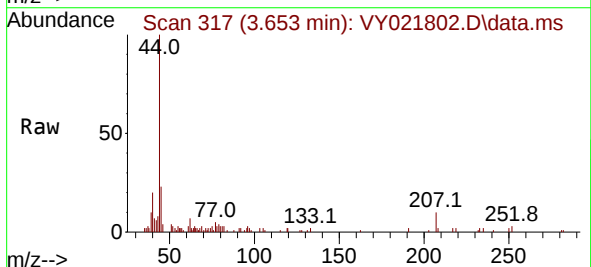
Instrument :
MSVOA_Y
ClientSampleId :
RT3069

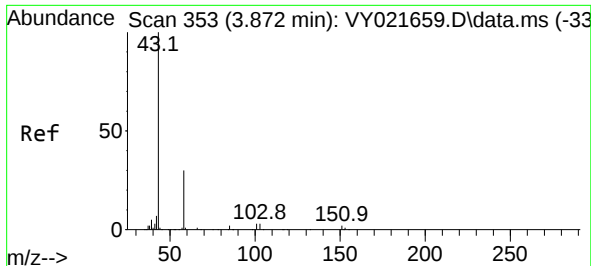
Tgt Ion:168 Resp: 107704
Ion Ratio Lower Upper
168 100
99 57.5 46.7 70.1



#13
Acrolein
Concen: 3.179 ug/l
RT: 3.653 min Scan# 317
Delta R.T. 0.006 min
Lab File: VY021802.D
Acq: 07 Apr 2025 16:42

Tgt Ion: 56 Resp: 440
Ion Ratio Lower Upper
56 100
55 0.0 56.6 85.0#

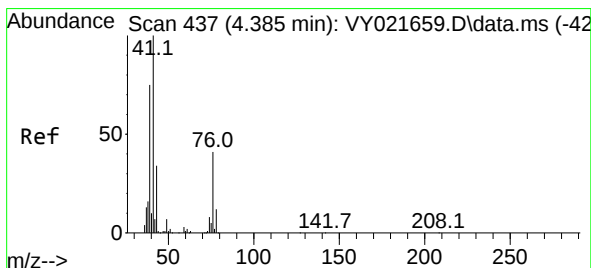
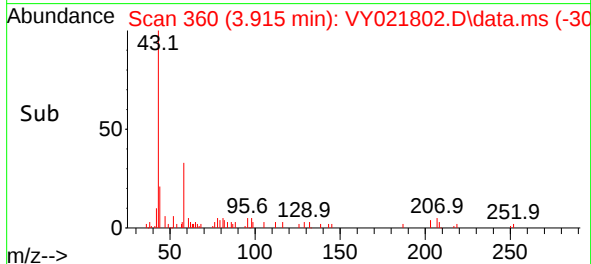
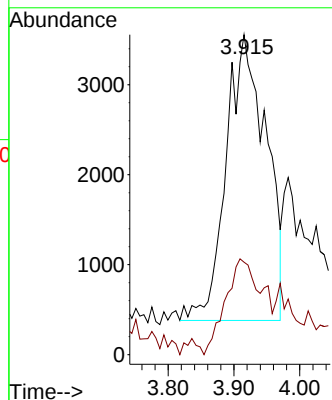
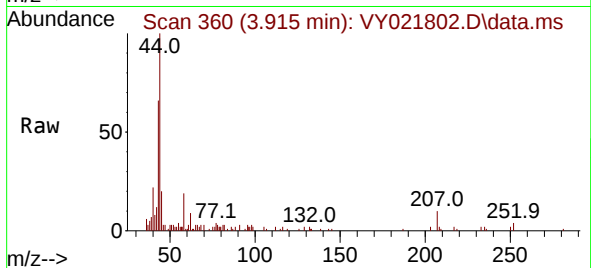




#16
Acetone
Concen: 56.242 ug/l
RT: 3.915 min Scan# 30
Delta R.T. 0.043 min
Lab File: VY021802.D
Acq: 07 Apr 2025 16:42

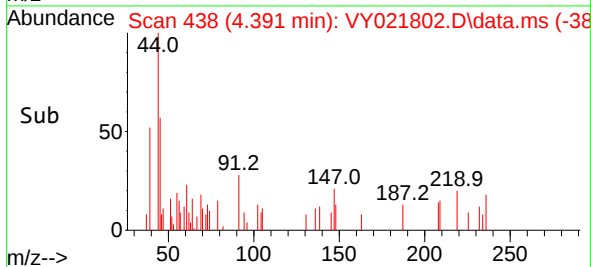
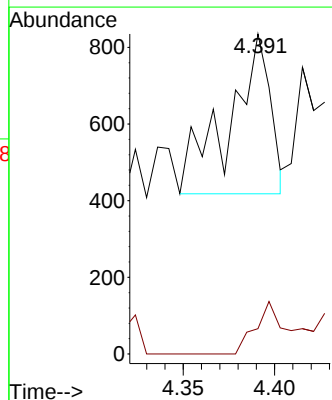
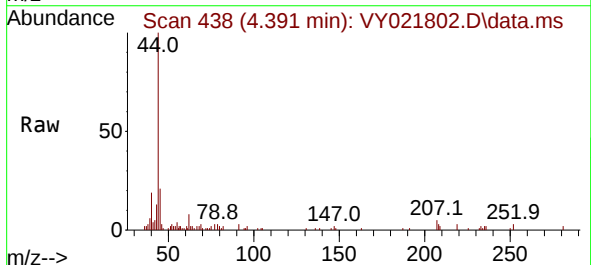
Instrument :
MSVOA_Y
ClientSampleId :
RT3069

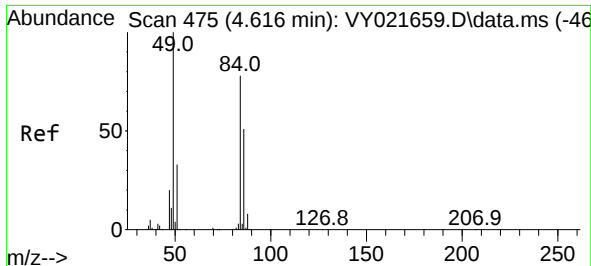
Tgt Ion: 43 Resp: 13432
Ion Ratio Lower Upper
43 100
58 32.4 24.2 36.4



#18
Methyl Acetate
Concen: 1.115 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY021802.D
Acq: 07 Apr 2025 16:42

Tgt Ion: 43 Resp: 660
Ion Ratio Lower Upper
43 100
74 21.5 19.1 28.7



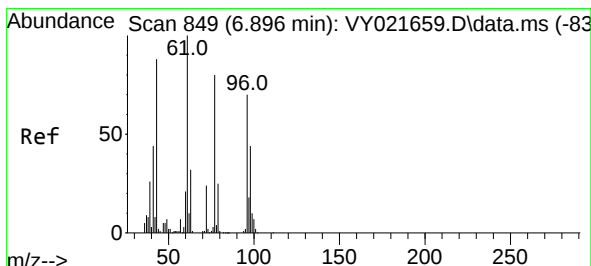
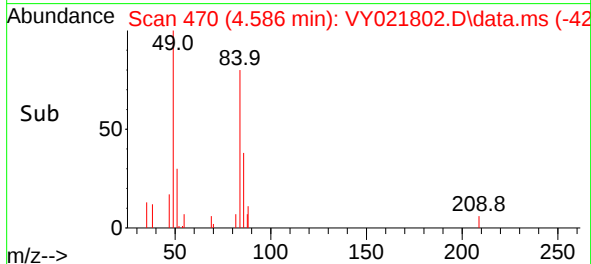
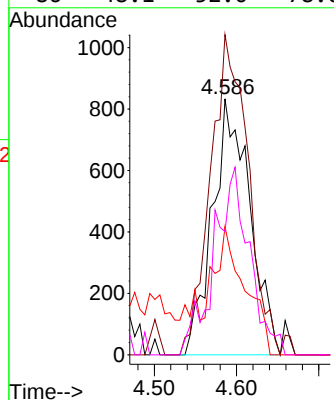
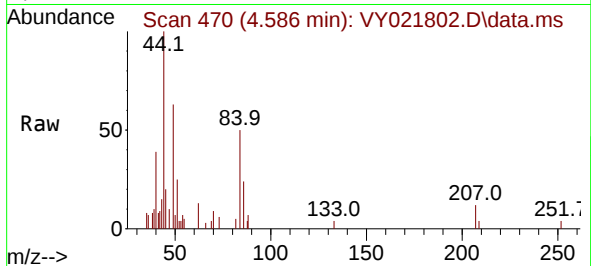


#20
Methylene Chloride
Concen: Below Cal
RT: 4.586 min Scan# 41
Delta R.T. -0.030 min
Lab File: VY021802.D
Acq: 07 Apr 2025 16:42

Instrument :
MSVOA_Y
ClientSampleId :
RT3069

Tgt Ion: 84 Resp: 2625

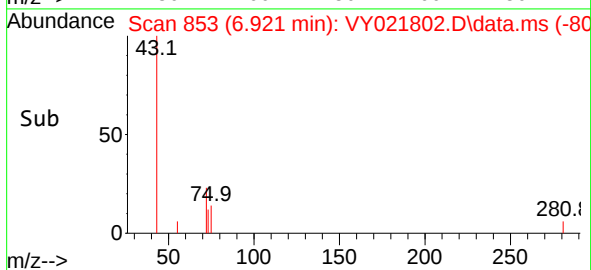
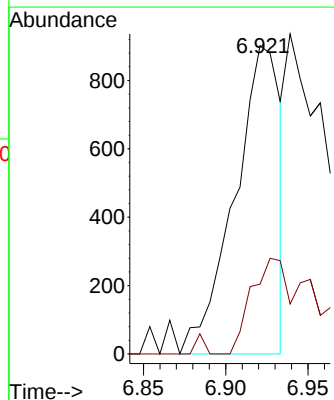
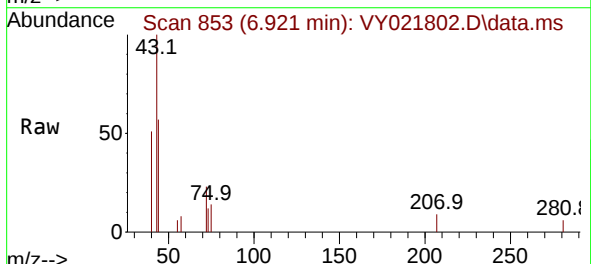
Ion	Ratio	Lower	Upper
84	100		
49	125.1	102.8	154.2
51	50.1	33.5	50.3
86	48.1	52.0	78.0

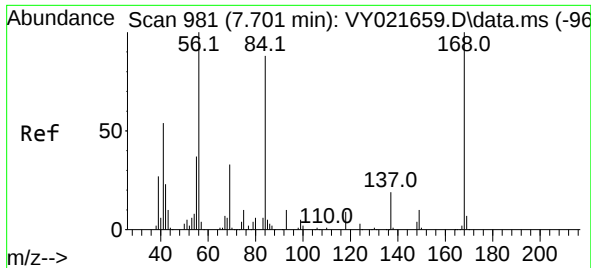


#25
2-Butanone
Concen: 5.113 ug/l
RT: 6.921 min Scan# 853
Delta R.T. 0.025 min
Lab File: VY021802.D
Acq: 07 Apr 2025 16:42

Tgt Ion: 43 Resp: 1744

Ion	Ratio	Lower	Upper
43	100		
72	22.6	21.4	32.2

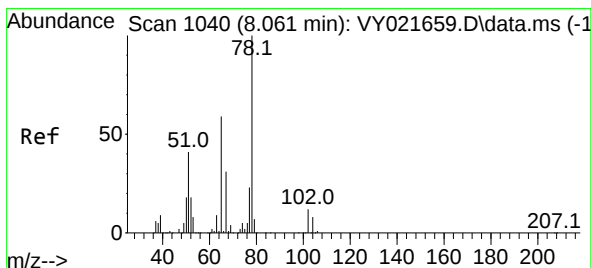
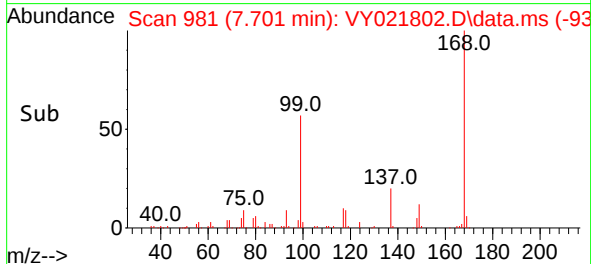
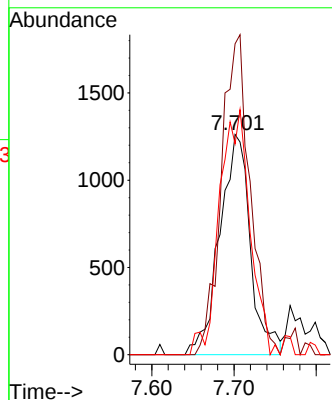
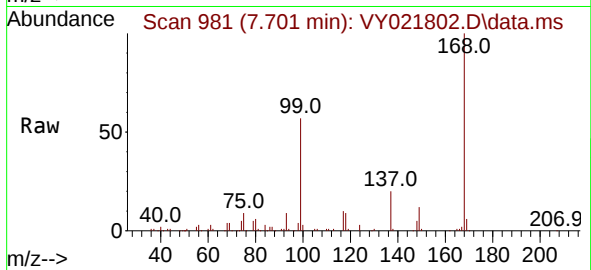




#31
Cyclohexane
Concen: 1.590 ug/l
RT: 7.701 min Scan# 981
Delta R.T. 0.000 min
Lab File: VY021802.D
Acq: 07 Apr 2025 16:42

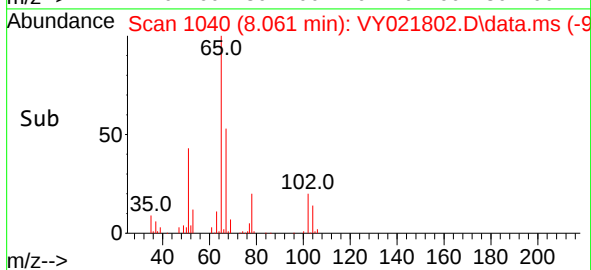
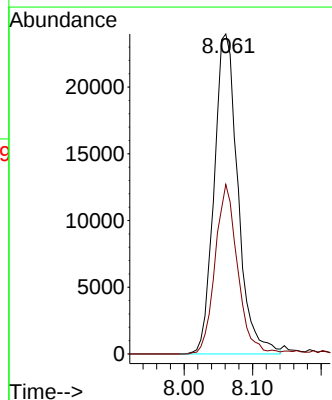
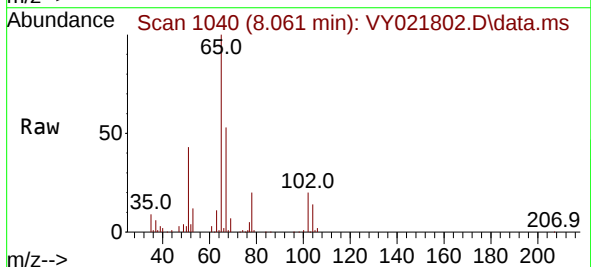
Instrument :
MSVOA_Y
ClientSampleId :
RT3069

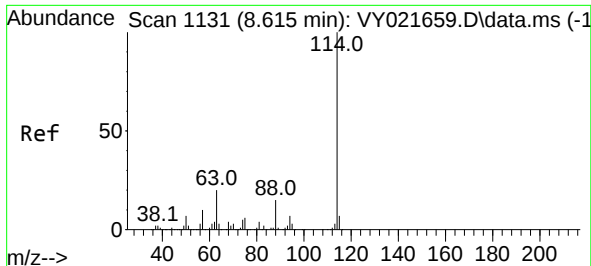
Tgt Ion: 56 Resp: 3275
Ion Ratio Lower Upper
56 100
69 141.2 26.6 40.0#
84 95.8 69.0 103.4



#33
1,2-Dichloroethane-d4
Concen: 49.503 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY021802.D
Acq: 07 Apr 2025 16:42

Tgt Ion: 65 Resp: 57767
Ion Ratio Lower Upper
65 100
67 50.1 0.0 104.6

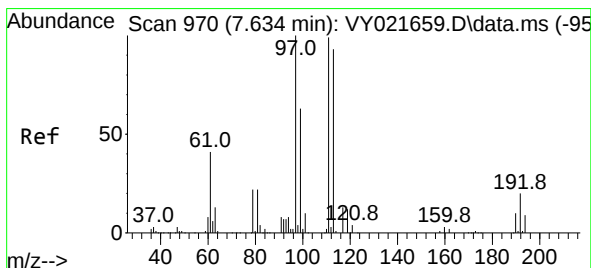
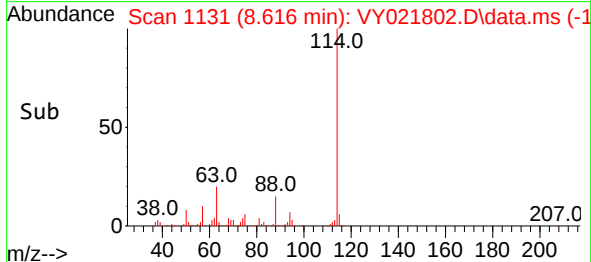
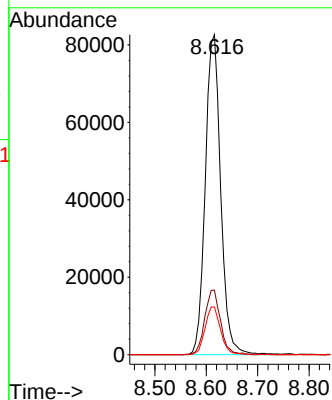
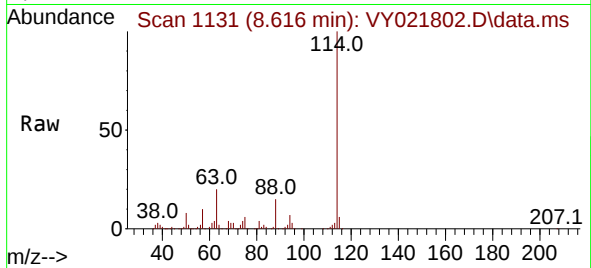




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY021802.D
Acq: 07 Apr 2025 16:42

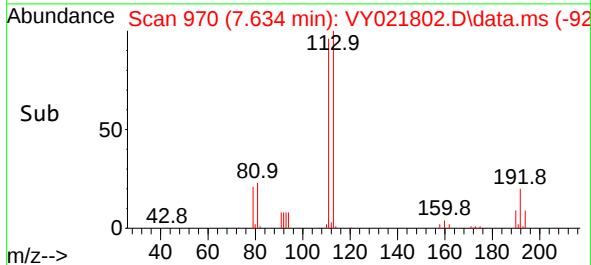
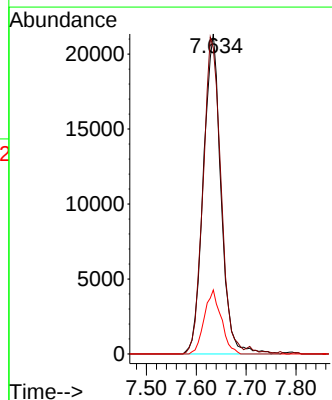
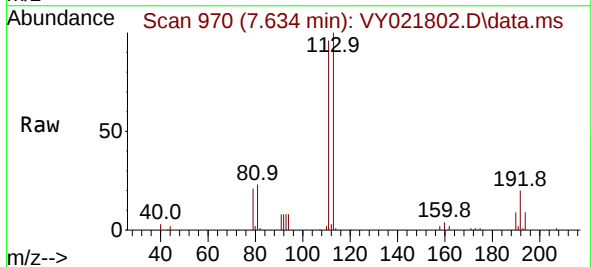
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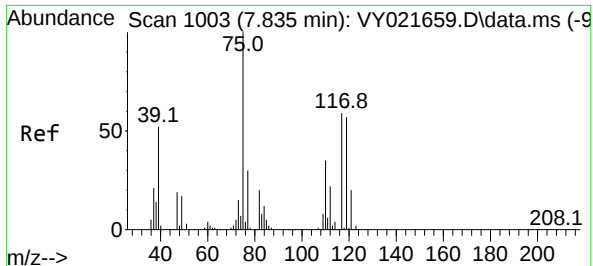
Tgt Ion:114 Resp: 172198
Ion Ratio Lower Upper
114 100
63 20.2 0.0 40.2
88 14.9 0.0 29.8



#35
Dibromofluoromethane
Concen: 46.895 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY021802.D
Acq: 07 Apr 2025 16:42

Tgt Ion:113 Resp: 52383
Ion Ratio Lower Upper
113 100
111 99.9 82.6 123.8
192 19.2 16.2 24.4





#36

1,1-Dichloropropene

Concen: 5.254 ug/l

RT: 7.701 min Scan# 981

Delta R.T. -0.134 min

Lab File: VY021802.D

Acq: 07 Apr 2025 16:42

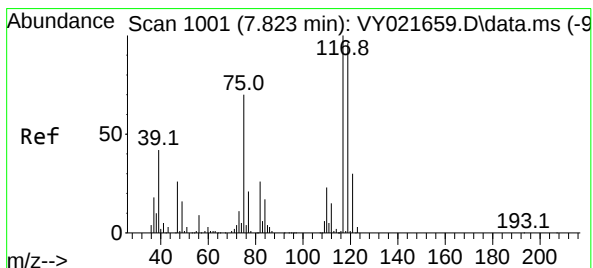
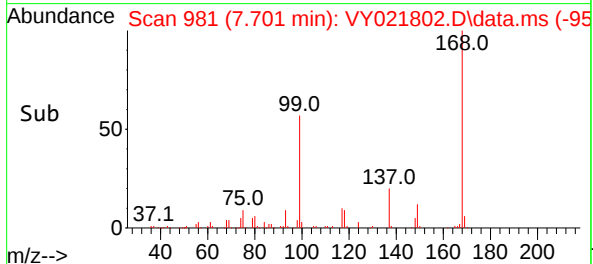
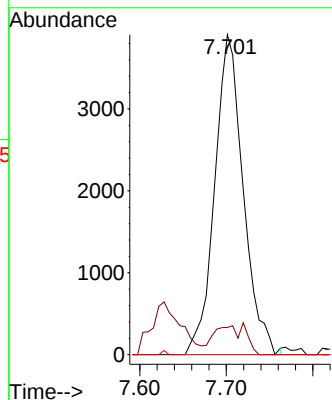
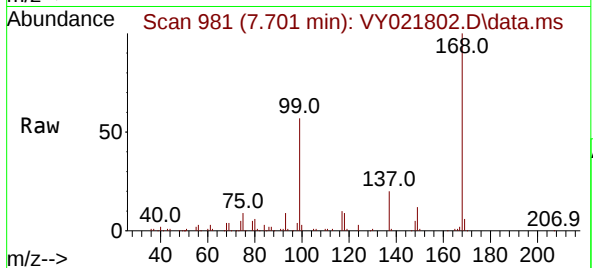
Instrument :

MSVOA_Y

ClientSampleId :

RT3069

Tgt Ion:	75	Resp:	8940
Ion	Ratio	Lower	Upper
75	100		
110	10.4	17.0	50.9#
77	0.0	24.8	37.2#



#38

Carbon Tetrachloride

Concen: 5.454 ug/l

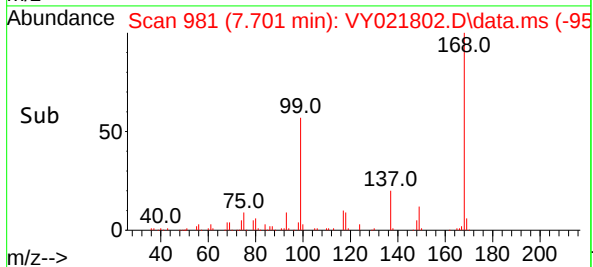
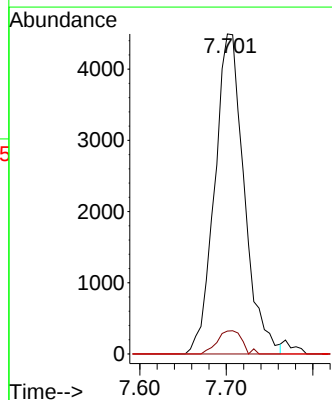
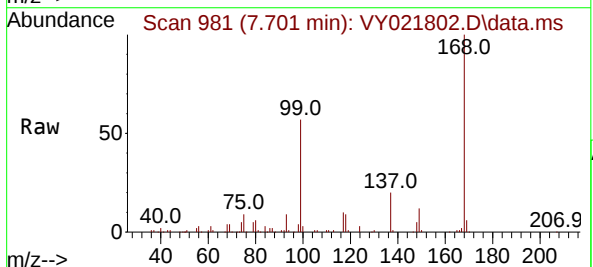
RT: 7.701 min Scan# 981

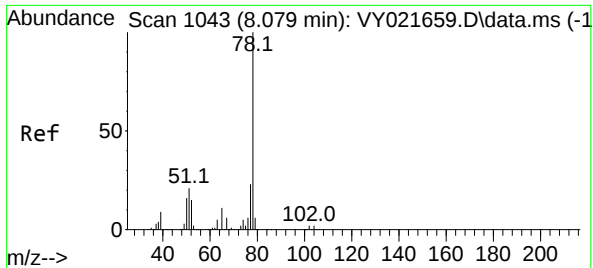
Delta R.T. -0.122 min

Lab File: VY021802.D

Acq: 07 Apr 2025 16:42

Tgt Ion:	117	Resp:	10628
Ion	Ratio	Lower	Upper
117	100		
119	7.1	76.2	114.4#
121	0.0	24.2	36.4#

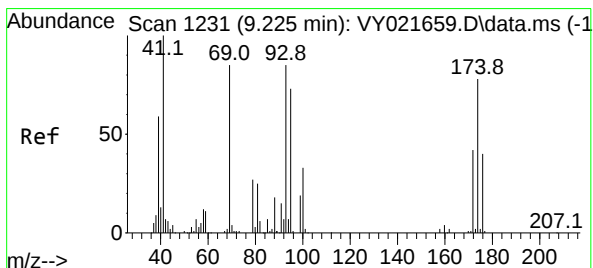
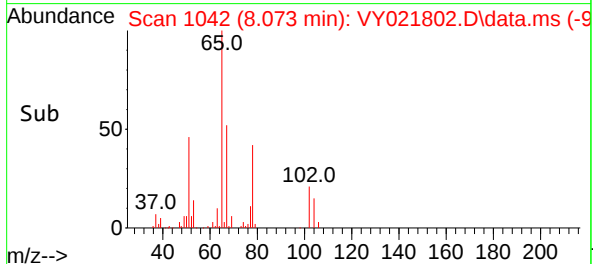
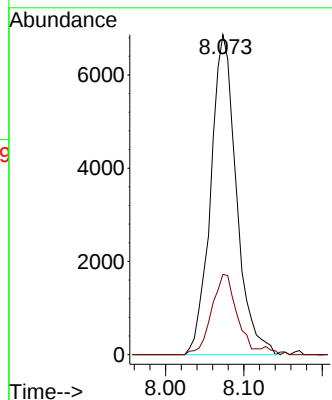
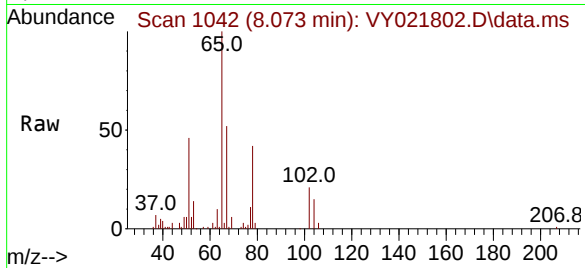




#40
Benzene
Concen: 3.078 ug/l
RT: 8.073 min Scan# 1042
Delta R.T. -0.006 min
Lab File: VY021802.D
Acq: 07 Apr 2025 16:42

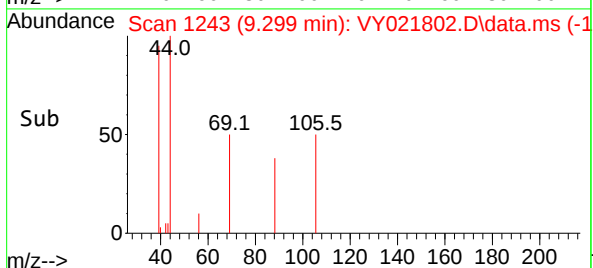
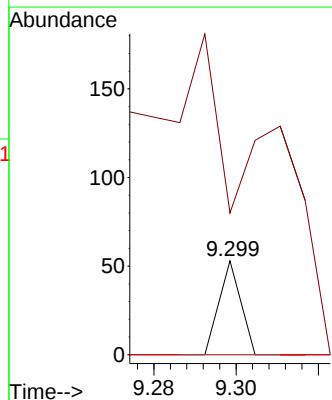
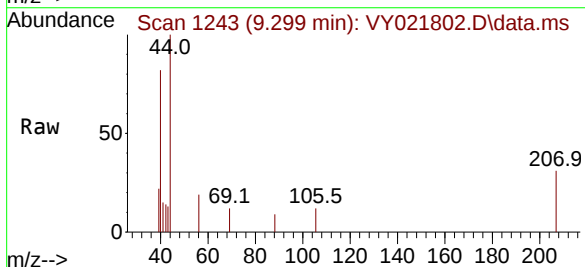
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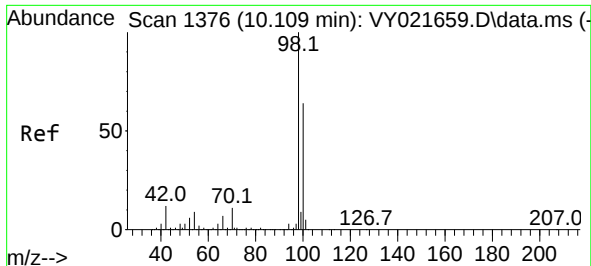
Tgt Ion: 78 Resp: 15683
Ion Ratio Lower Upper
78 100
77 25.1 18.8 28.2



#49
1,4-Dioxane
Concen: 2.552 ug/l
RT: 9.299 min Scan# 1243
Delta R.T. 0.073 min
Lab File: VY021802.D
Acq: 07 Apr 2025 16:42

Tgt Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 2042.1 28.8 43.2#
58 0.0 59.4 89.2#

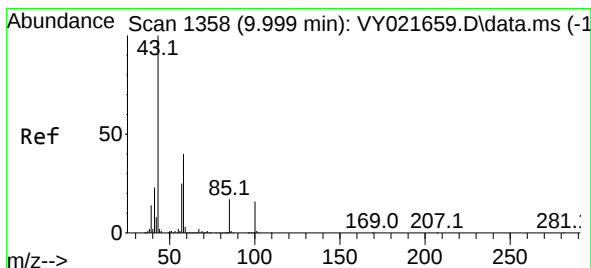
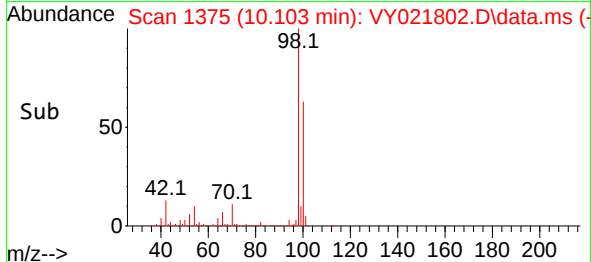
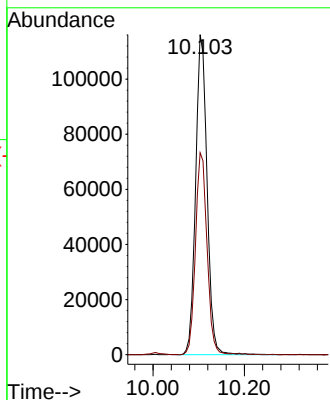
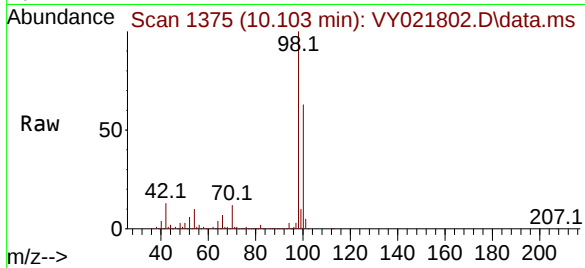




#50
Toluene-d8
Concen: 47.403 ug/l
RT: 10.103 min Scan# 1376
Delta R.T. -0.006 min
Lab File: VY021802.D
Acq: 07 Apr 2025 16:42

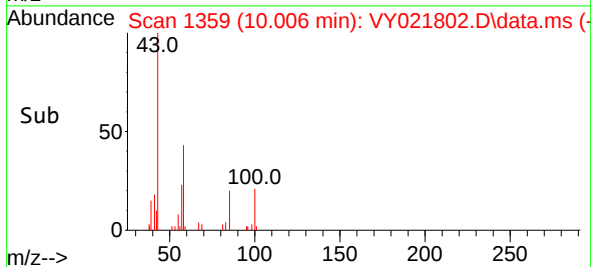
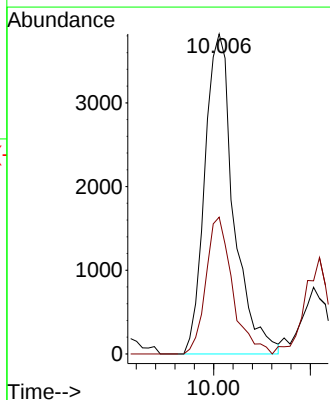
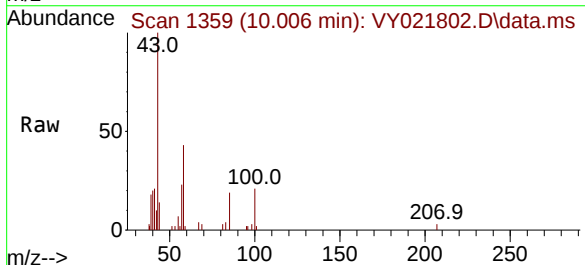
Instrument :
MSVOA_Y
ClientSampleId :
RT3069

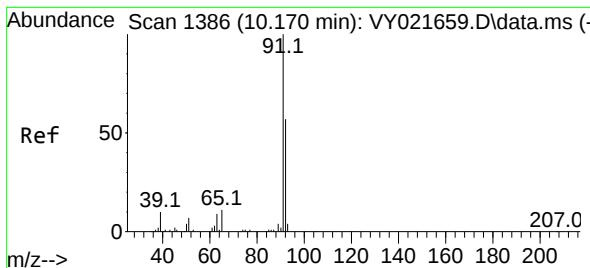
Tgt Ion: 98 Resp: 201437
Ion Ratio Lower Upper
98 100
100 63.8 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 10.037 ug/l
RT: 10.006 min Scan# 1359
Delta R.T. 0.006 min
Lab File: VY021802.D
Acq: 07 Apr 2025 16:42

Tgt Ion: 43 Resp: 7948
Ion Ratio Lower Upper
43 100
58 39.1 31.5 47.3





#52

Toluene

Concen: 2.077 ug/l

RT: 10.170 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY021802.D

Acq: 07 Apr 2025 16:42

Instrument :

MSVOA_Y

ClientSampleId :

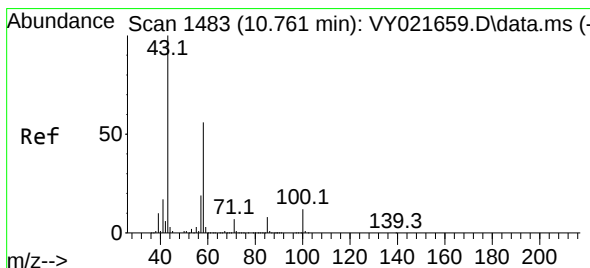
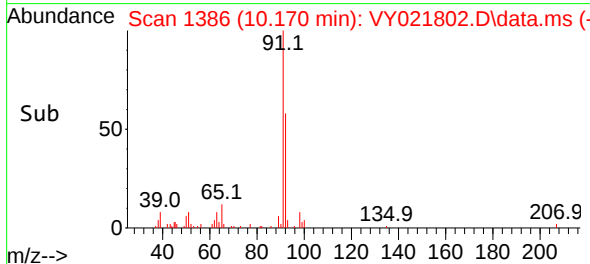
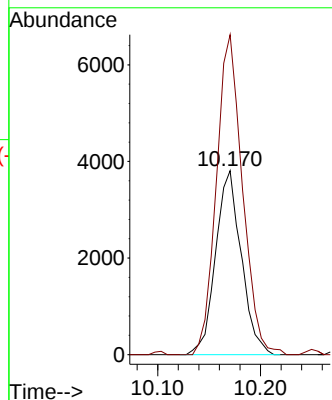
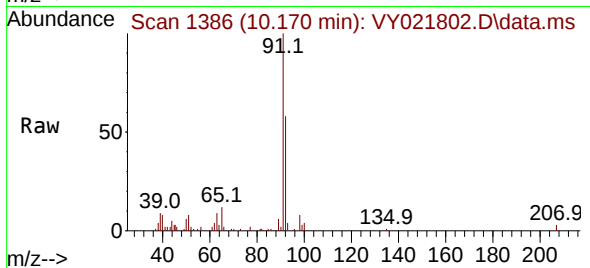
RT3069

Tgt Ion: 92 Resp: 6603

Ion Ratio Lower Upper

92 100

91 176.5 138.6 207.8



#59

2-Hexanone

Concen: 2.073 ug/l

RT: 10.768 min Scan# 1484

Delta R.T. 0.006 min

Lab File: VY021802.D

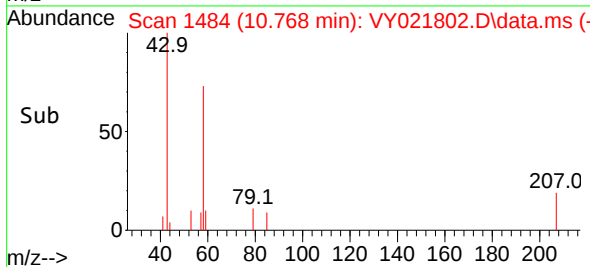
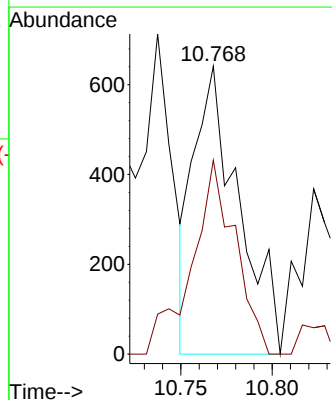
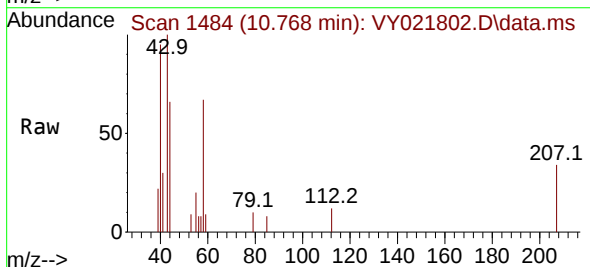
Acq: 07 Apr 2025 16:42

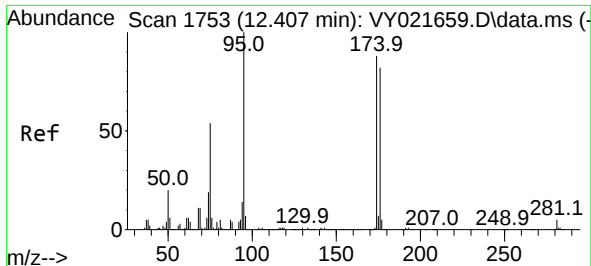
Tgt Ion: 43 Resp: 1093

Ion Ratio Lower Upper

43 100

58 65.1 27.2 81.5

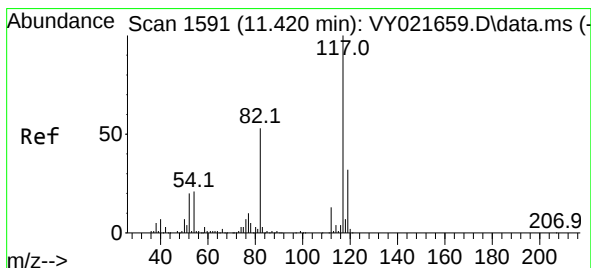
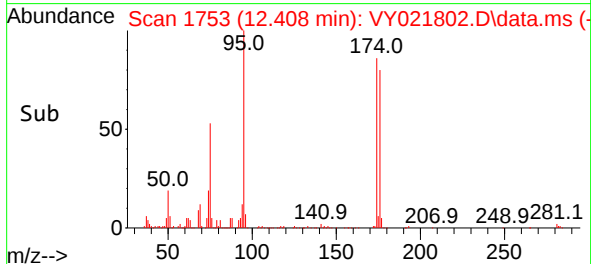
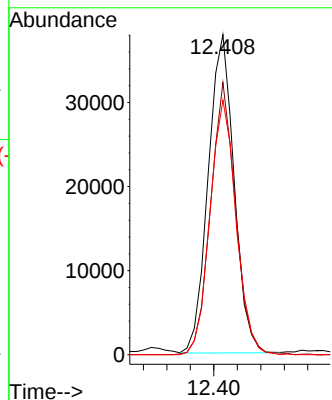
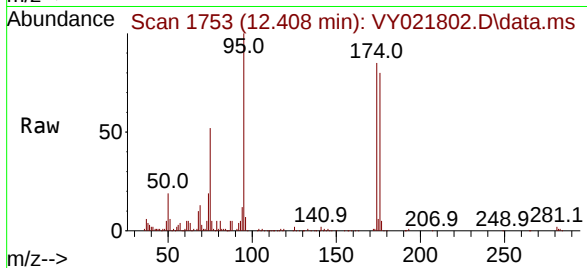




#62
4-Bromofluorobenzene
Concen: 40.285 ug/l
RT: 12.408 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY021802.D
Acq: 07 Apr 2025 16:42

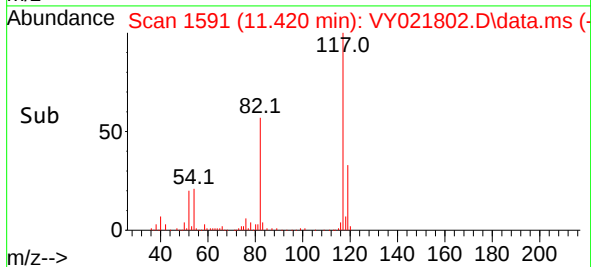
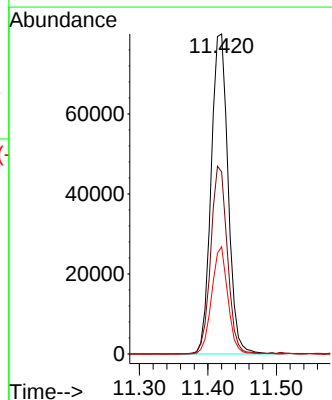
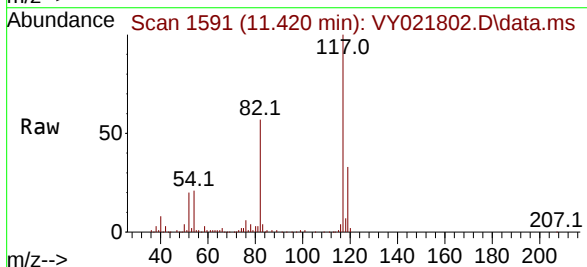
Instrument :
MSVOA_Y
ClientSampleId :
RT3069

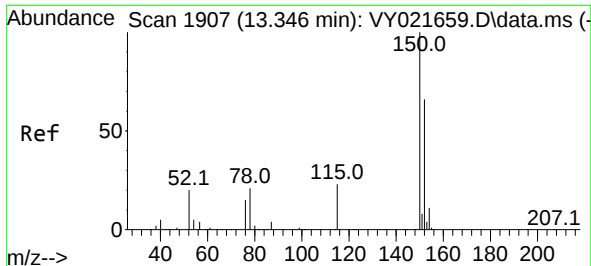
Tgt Ion: 95 Resp: 57904
Ion Ratio Lower Upper
95 100
174 82.8 0.0 170.8
176 80.7 0.0 162.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.000 min
Lab File: VY021802.D
Acq: 07 Apr 2025 16:42

Tgt Ion: 117 Resp: 137773
Ion Ratio Lower Upper
117 100
82 56.8 42.8 64.2
119 33.5 25.7 38.5

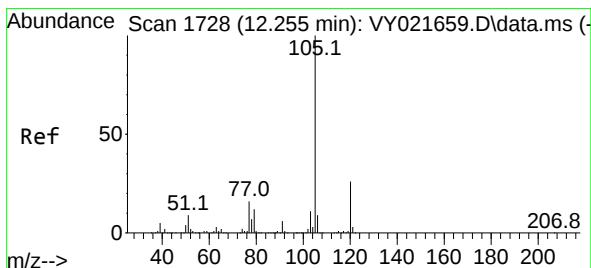
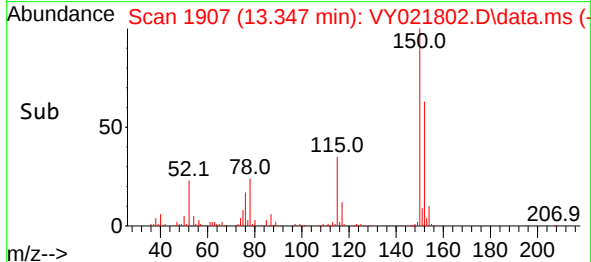
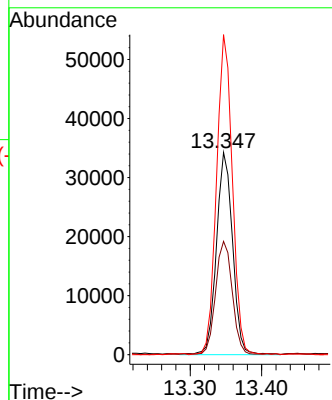
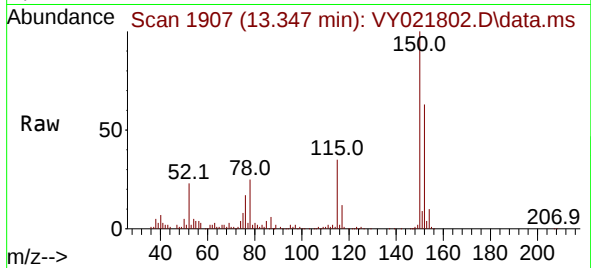




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY021802.D
Acq: 07 Apr 2025 16:42

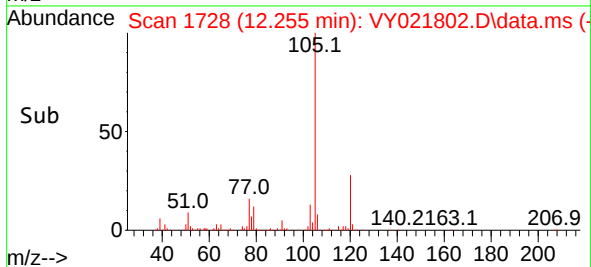
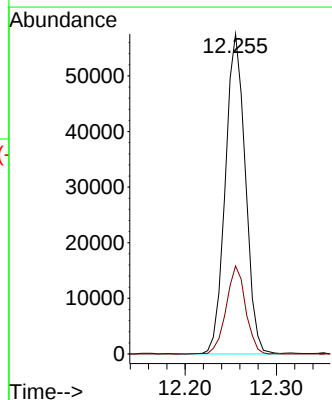
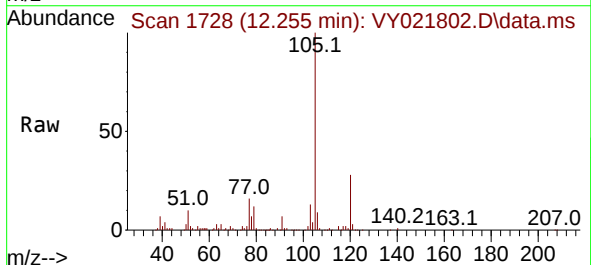
Instrument :
MSVOA_Y
ClientSampleId :
RT3069

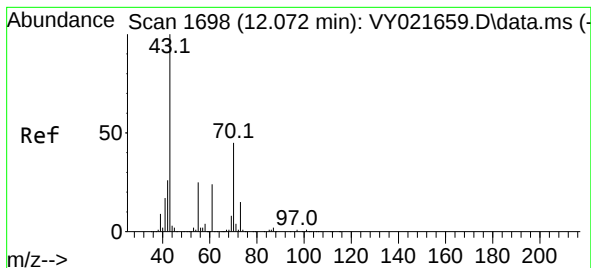
Tgt Ion:152 Resp: 53816
Ion Ratio Lower Upper
152 100
115 56.7 28.8 86.5
150 155.0 0.0 348.4



#73
Isopropylbenzene
Concen: 21.932 ug/l
RT: 12.255 min Scan# 1728
Delta R.T. 0.000 min
Lab File: VY021802.D
Acq: 07 Apr 2025 16:42

Tgt Ion:105 Resp: 87666
Ion Ratio Lower Upper
105 100
120 26.6 13.2 39.5





#74

N-amy1 acetate

Concen: 5.313 ug/l

RT: 12.048 min Scan# 1

Delta R.T. -0.024 min

Lab File: VY021802.D

Acq: 07 Apr 2025 16:42

Instrument :

MSVOA_Y

ClientSampleId :

RT3069

Tgt Ion: 43 Resp: 4984

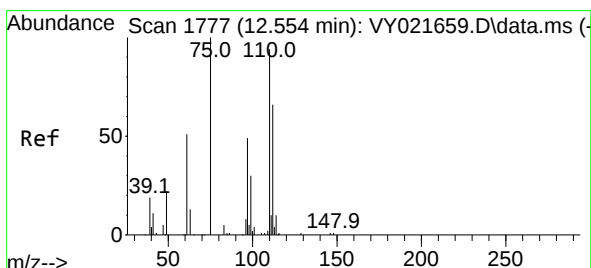
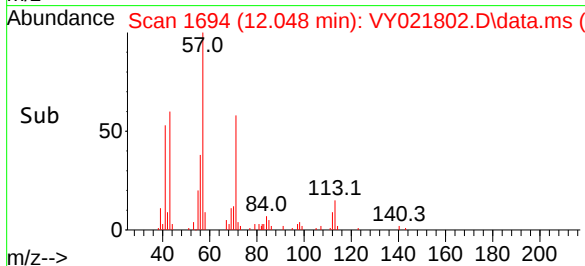
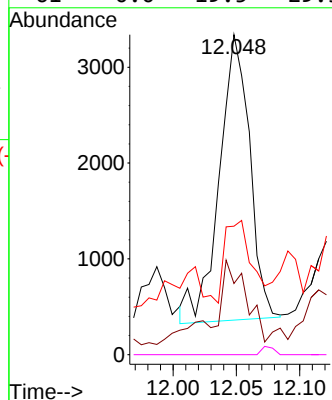
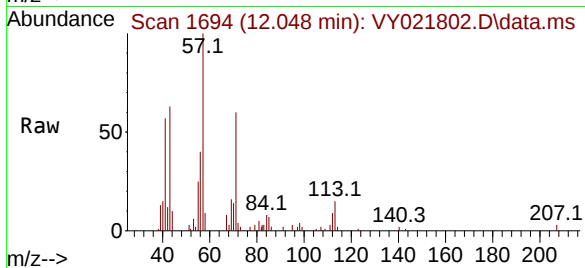
Ion Ratio Lower Upper

43 100

70 32.8 34.7 52.1#

55 24.9 21.2 31.8

61 0.0 19.5 29.3#



#76

1,2,3-Trichloropropane

Concen: 58.187 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.146 min

Lab File: VY021802.D

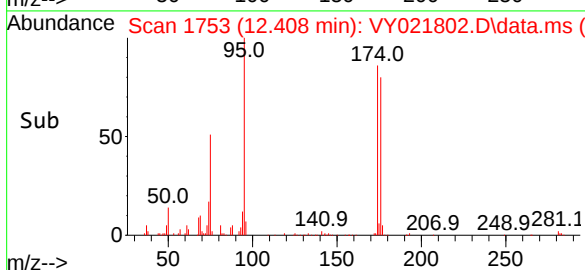
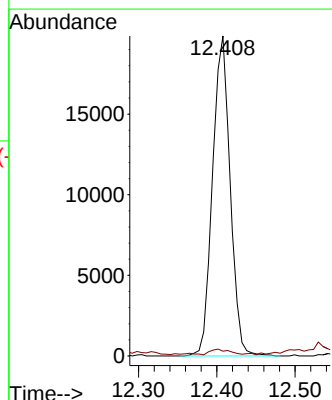
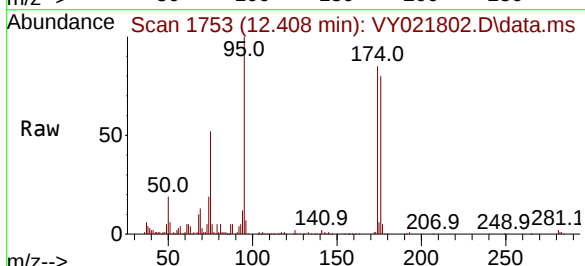
Acq: 07 Apr 2025 16:42

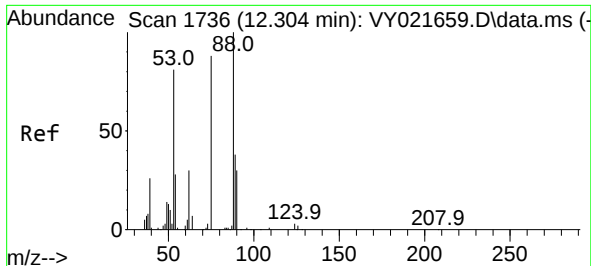
Tgt Ion: 75 Resp: 31040

Ion Ratio Lower Upper

75 100

77 2.0 0.0 0.0#

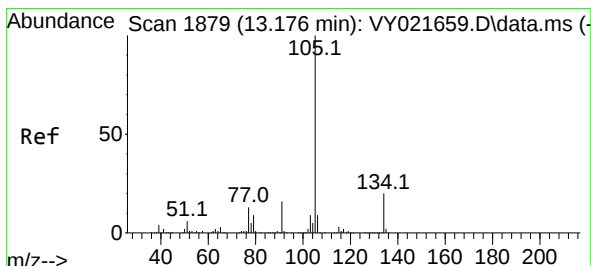
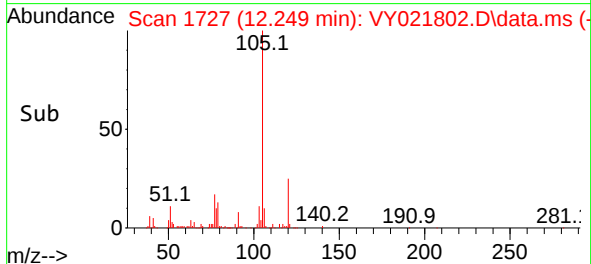
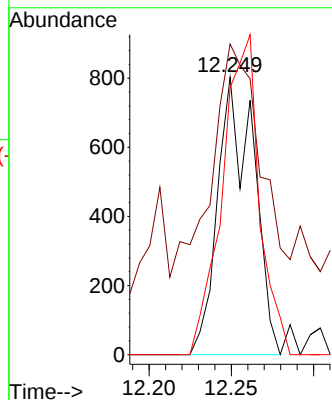
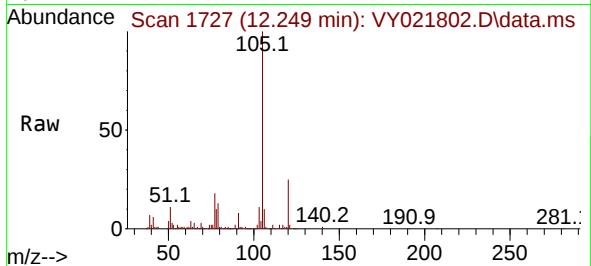




#81
 trans-1,4-Dichloro-2-butene
 Concen: 5.257 ug/l
 RT: 12.249 min Scan# 1727
 Delta R.T. -0.055 min
 Lab File: VY021802.D
 Acq: 07 Apr 2025 16:42

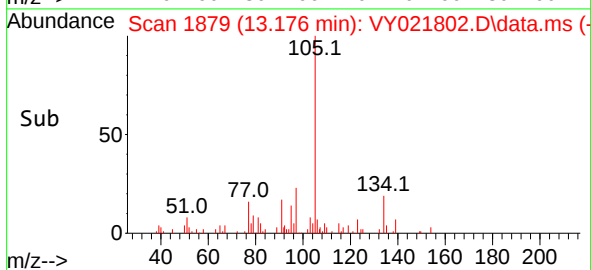
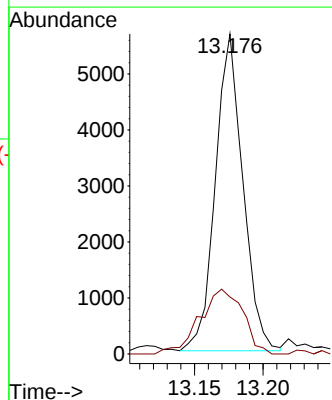
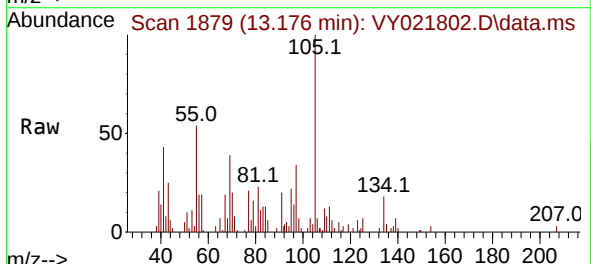
Instrument :
 MSVOA_Y
 ClientSampleId :
 RT3069

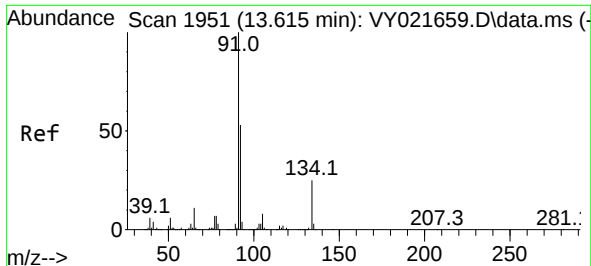
Tgt Ion: 75 Resp: 1217
 Ion Ratio Lower Upper
 75 100
 53 94.2 76.1 114.1
 89 118.9 36.2 54.4#



#85
 sec-Butylbenzene
 Concen: 1.857 ug/l
 RT: 13.176 min Scan# 1879
 Delta R.T. 0.000 min
 Lab File: VY021802.D
 Acq: 07 Apr 2025 16:42

Tgt Ion:105 Resp: 7897
 Ion Ratio Lower Upper
 105 100
 134 32.2 10.1 30.1#





#89

n-Butylbenzene

Concen: 2.551 ug/l

RT: 13.621 min Scan# 1951

Delta R.T. 0.006 min

Lab File: VY021802.D

Acq: 07 Apr 2025 16:42

Instrument :

MSVOA_Y

ClientSampleId :

RT3069

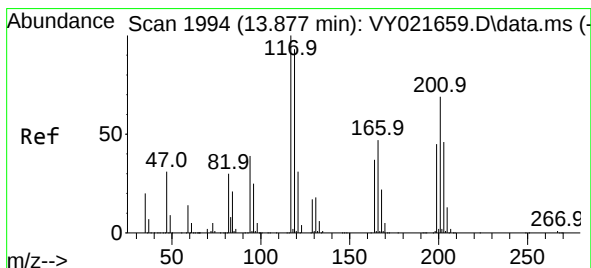
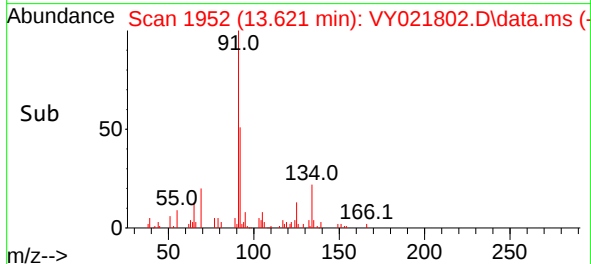
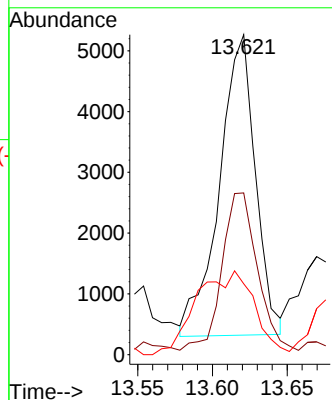
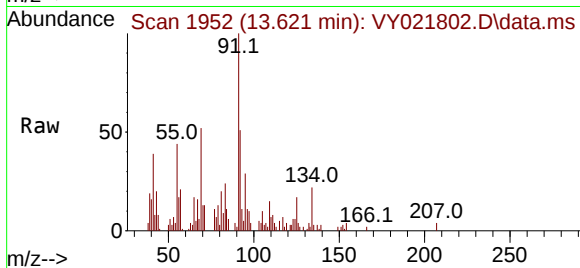
Tgt Ion: 91 Resp: 8293

Ion Ratio Lower Upper

91 100

92 52.9 26.4 79.2

134 44.8 12.8 38.4#



#90

Hexachloroethane

Concen: 5.143 ug/l

RT: 13.895 min Scan# 1997

Delta R.T. 0.019 min

Lab File: VY021802.D

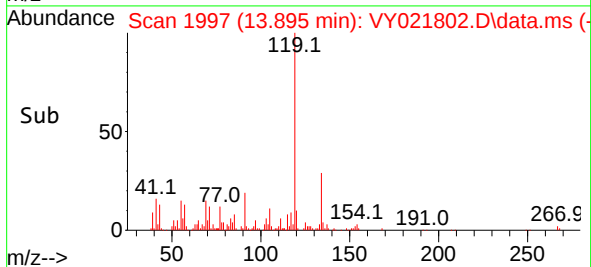
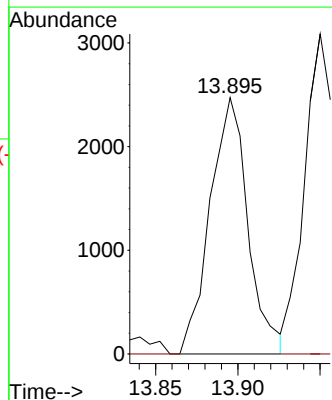
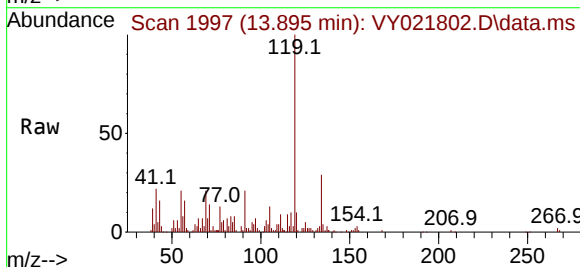
Acq: 07 Apr 2025 16:42

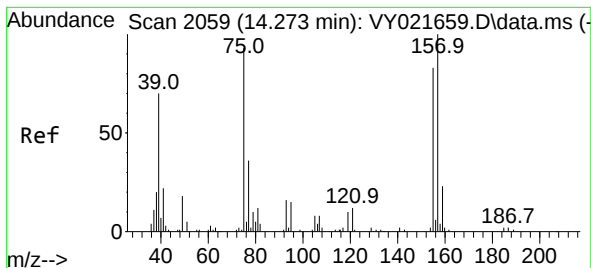
Tgt Ion: 117 Resp: 3961

Ion Ratio Lower Upper

117 100

201 0.0 37.4 112.1#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.158 ug/l

RT: 14.298 min Scan# 2059

Delta R.T. 0.025 min

Lab File: VY021802.D

Acq: 07 Apr 2025 16:42

Instrument :

MSVOA_Y

ClientSampleId :

RT3069

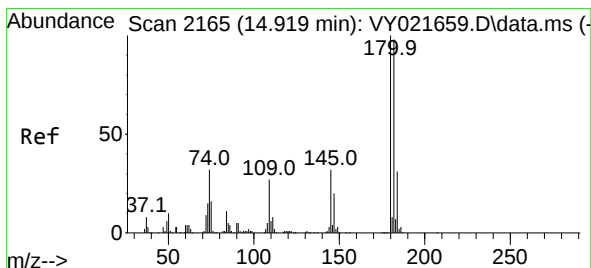
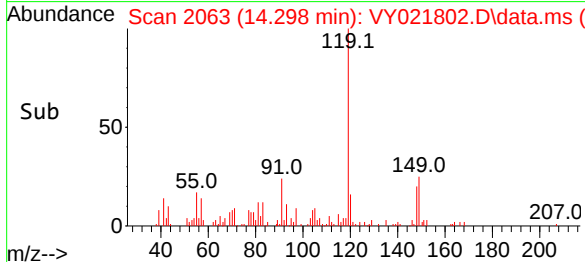
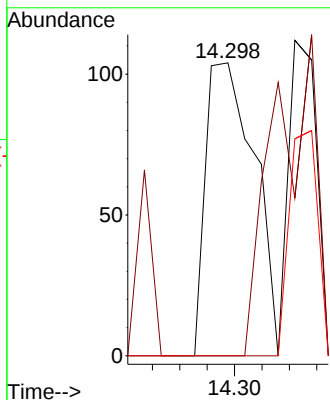
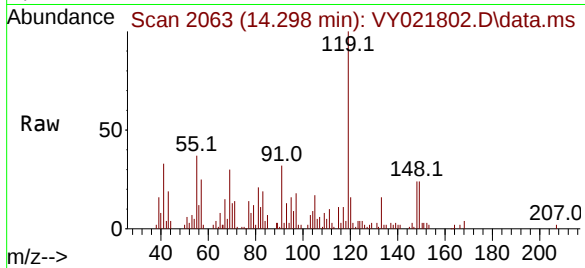
Tgt Ion: 75 Resp: 129

Ion Ratio Lower Upper

75 100

155 0.0 43.0 128.8#

157 0.0 54.0 162.0#



#93

1,2,4-Trichlorobenzene

Concen: 3.218 ug/l

RT: 14.919 min Scan# 2165

Delta R.T. 0.000 min

Lab File: VY021802.D

Acq: 07 Apr 2025 16:42

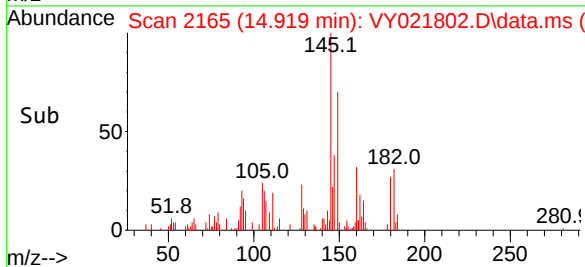
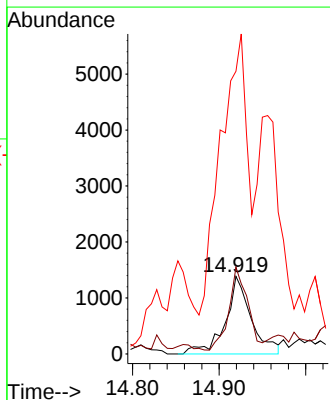
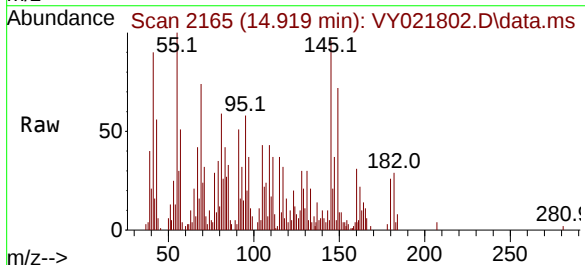
Tgt Ion:180 Resp: 2872

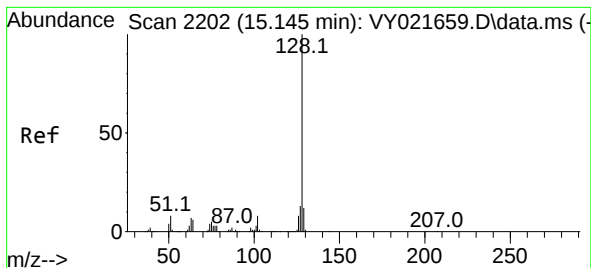
Ion Ratio Lower Upper

180 100

182 78.1 47.5 142.6

145 440.6 14.9 44.9#





#95

Naphthalene

Concen: 9.057 ug/l

RT: 15.145 min Scan# 2202

Delta R.T. 0.000 min

Lab File: VY021802.D

Acq: 07 Apr 2025 16:42

Instrument :

MSVOA_Y

ClientSampleId :

RT3069

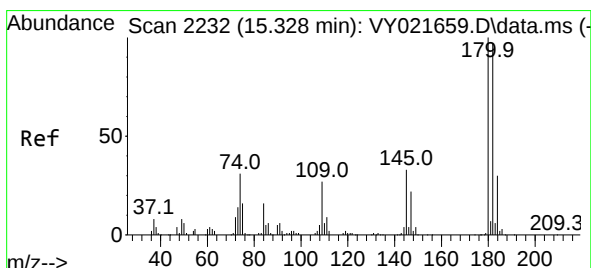
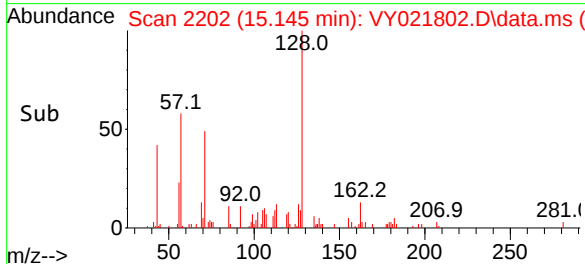
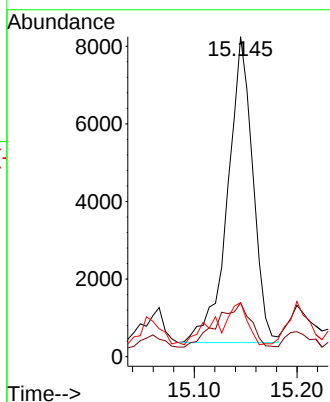
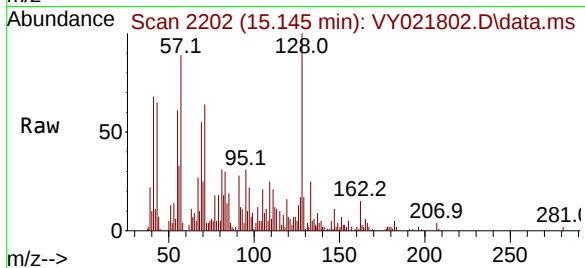
Tgt Ion:128 Resp: 13400

Ion Ratio Lower Upper

128 100

127 19.5 10.8 16.2#

129 17.1 8.8 13.2#



#96

1,2,3-Trichlorobenzene

Concen: 2.572 ug/l

RT: 15.328 min Scan# 2232

Delta R.T. 0.000 min

Lab File: VY021802.D

Acq: 07 Apr 2025 16:42

Tgt Ion:180 Resp: 1958

Ion Ratio Lower Upper

180 100

182 79.1 47.5 142.5

145 463.8 15.9 47.7#

