

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060325\
 Data File : VY022523.D
 Acq On : 03 Jun 2025 15:24
 Operator : SY/MD
 Sample : Q2182-01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 OR-03-06022025

Quant Time: Jun 04 04:13:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 03 03:22:04 2025
 Response via : Initial Calibration

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

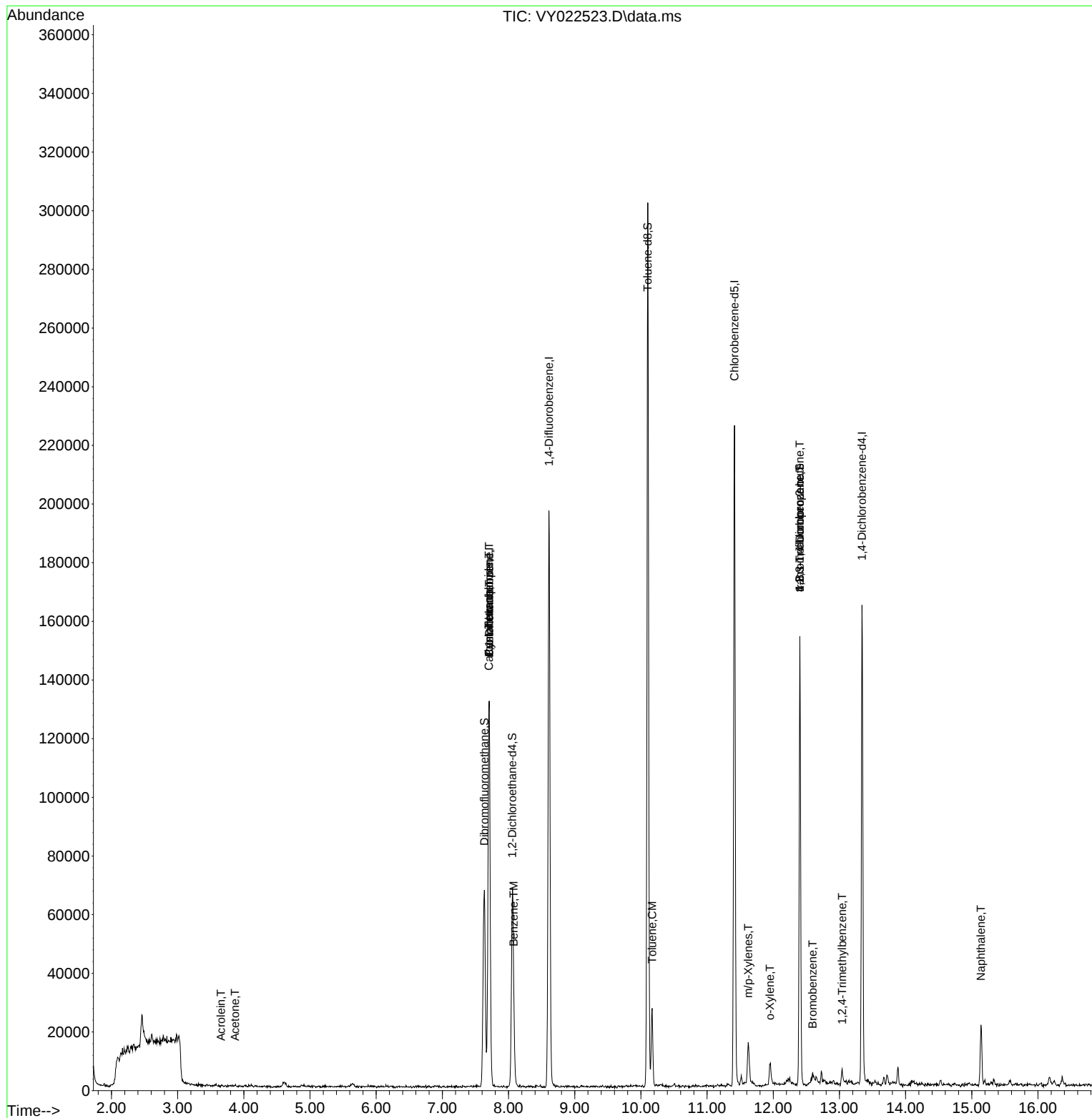
Internal Standards						
1) Pentafluorobenzene	7.707	168	98107	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	163313	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	115733	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	38160	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	46880	42.724	ug/l	-0.01
Spiked Amount 50.000	Range 50 - 163		Recovery =	85.440%		
35) Dibromofluoromethane	7.634	113	46259	47.456	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	94.920%		
50) Toluene-d8	10.103	98	184290	46.789	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	93.580%		
62) 4-Bromofluorobenzene	12.402	95	40156	34.218	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	68.440%		
Target Compounds						Qvalue
13) Acrolein	3.653	56	122	1.249	ug/l #	40
16) Acetone	3.867	43	651	2.921	ug/l #	45
31) Cyclohexane	7.707	56	2955	1.401	ug/l #	49
36) 1,1-Dichloropropene	7.707	75	8387	5.301	ug/l #	51
38) Carbon Tetrachloride	7.701	117	9610	5.921	ug/l #	15
40) Benzene	8.079	78	8662	1.854	ug/l	94
52) Toluene	10.170	92	9809	3.340	ug/l	98
68) m/p-Xylenes	11.621	106	3464	1.924	ug/l	80
69) o-Xylene	11.950	106	1699	1.006	ug/l	90
76) 1,2,3-Trichloropropane	12.402	75	24791	56.787	ug/l #	100
77) Bromobenzene	12.597	156	1814	2.744	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.402	75	24791	137.136	ug/l #	10
84) 1,2,4-Trimethylbenzene	13.042	105	3071	1.248	ug/l	88
95) Naphthalene	15.139	128	16270	13.669	ug/l	98

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

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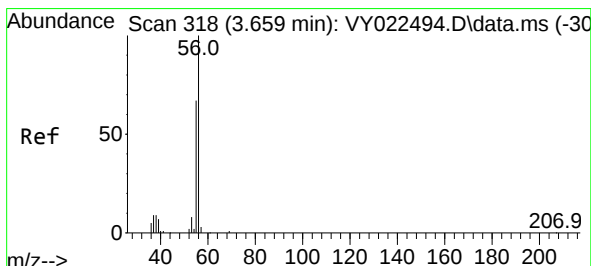
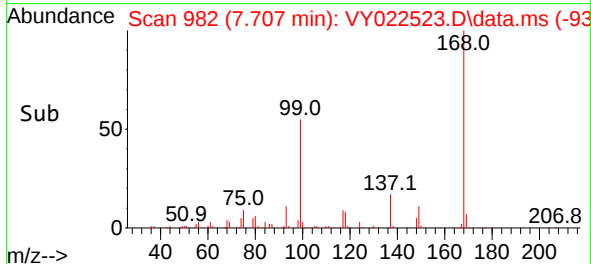
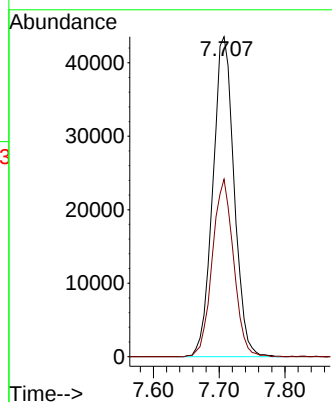
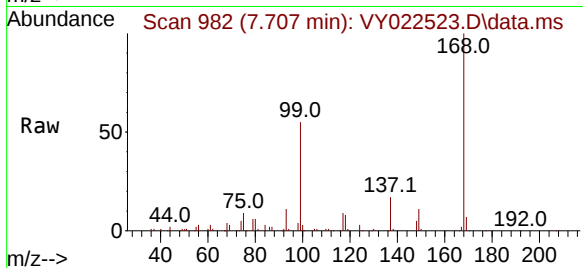




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 983
Delta R.T. -0.006 min
Lab File: VY022523.D
Acq: 03 Jun 2025 15:24

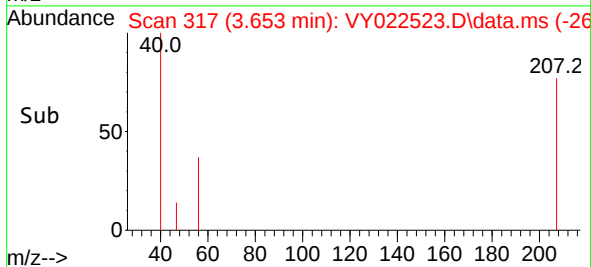
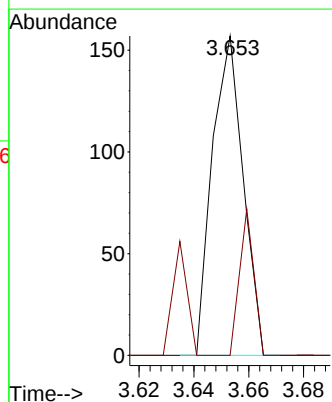
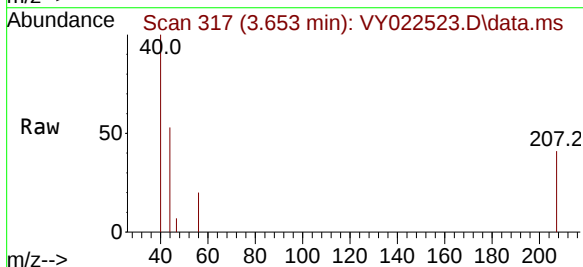
Instrument :
MSVOA_Y
ClientSampleId :
OR-03-06022025

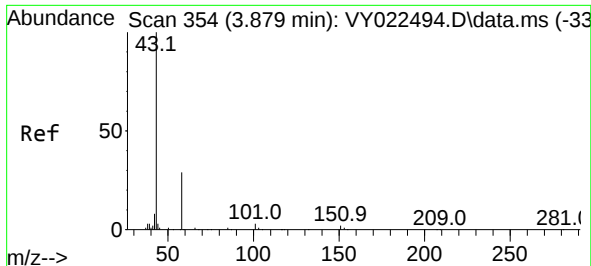
Tgt Ion:168 Resp: 98107
Ion Ratio Lower Upper
168 100
99 55.4 44.3 66.5



#13
Acrolein
Concen: 1.249 ug/l
RT: 3.653 min Scan# 317
Delta R.T. -0.006 min
Lab File: VY022523.D
Acq: 03 Jun 2025 15:24

Tgt Ion: 56 Resp: 122
Ion Ratio Lower Upper
56 100
55 21.3 57.0 85.6#

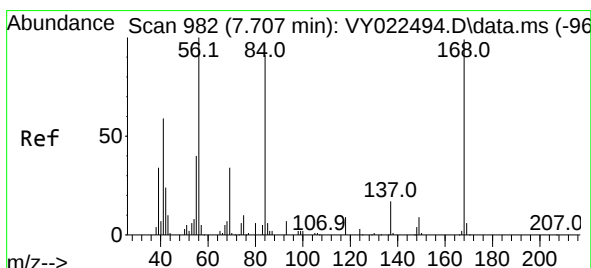
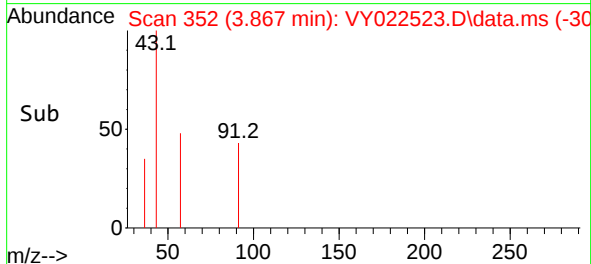
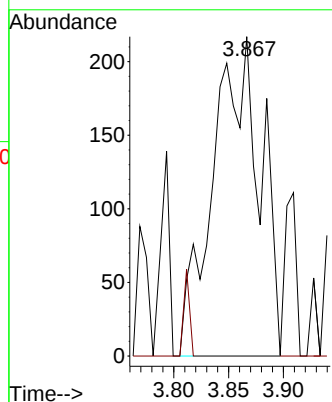
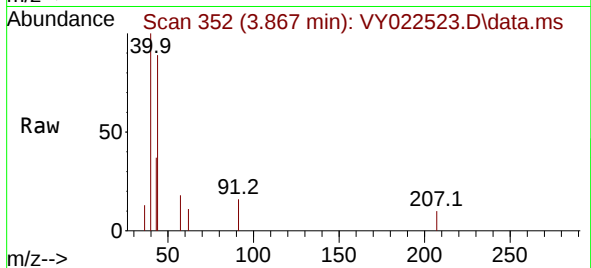




#16
Acetone
Concen: 2.921 ug/l
RT: 3.867 min Scan# 31
Delta R.T. -0.012 min
Lab File: VY022523.D
Acq: 03 Jun 2025 15:24

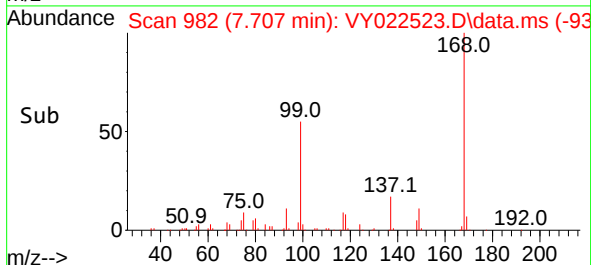
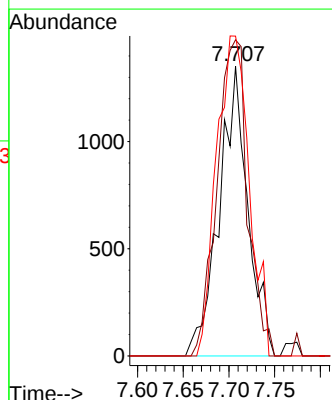
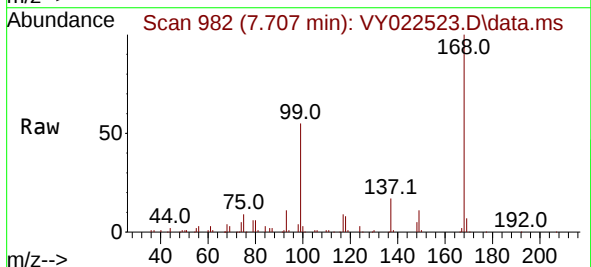
Instrument :
MSVOA_Y
ClientSampleId :
OR-03-06022025

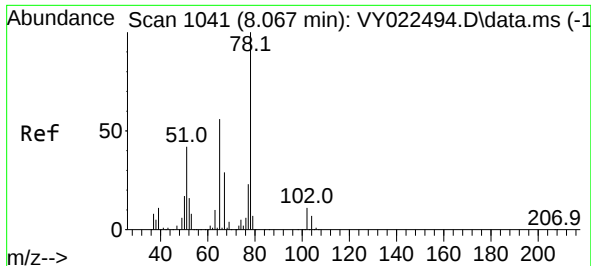
Tgt Ion: 43 Resp: 651
Ion Ratio Lower Upper
43 100
58 0.0 24.0 36.0#



#31
Cyclohexane
Concen: 1.401 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.000 min
Lab File: VY022523.D
Acq: 03 Jun 2025 15:24

Tgt Ion: 56 Resp: 2955
Ion Ratio Lower Upper
56 100
69 109.1 27.0 40.6#
84 110.4 72.6 109.0#





#33

1,2-Dichloroethane-d4

Concen: 42.724 ug/l

RT: 8.055 min Scan# 110

Delta R.T. -0.012 min

Lab File: VY022523.D

Acq: 03 Jun 2025 15:24

Instrument :

MSVOA_Y

ClientSampleId :

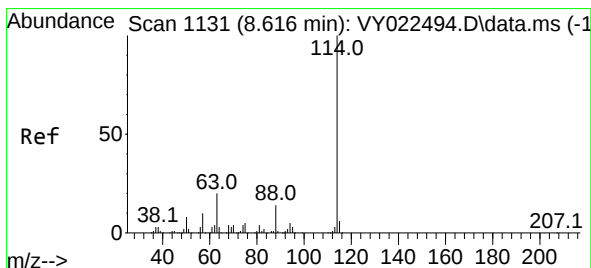
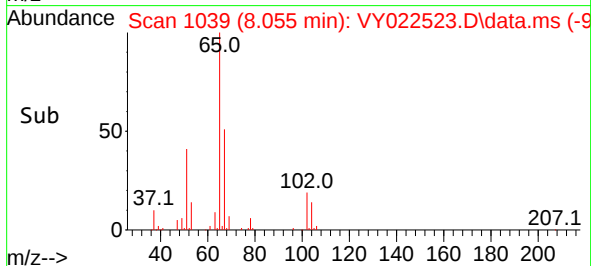
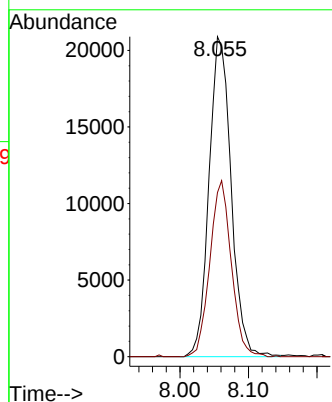
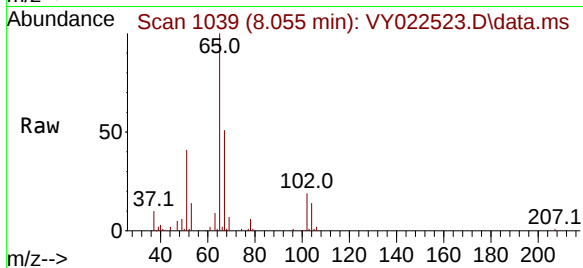
OR-03-06022025

Tgt Ion: 65 Resp: 46880

Ion Ratio Lower Upper

65 100

67 53.3 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.610 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VY022523.D

Acq: 03 Jun 2025 15:24

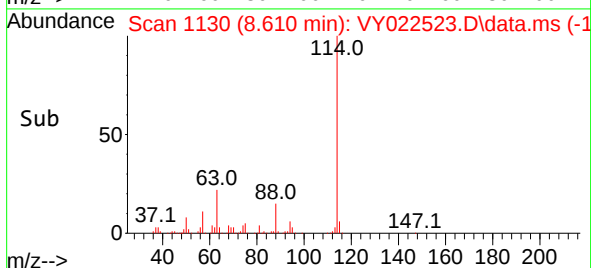
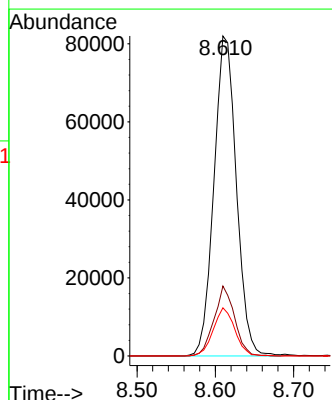
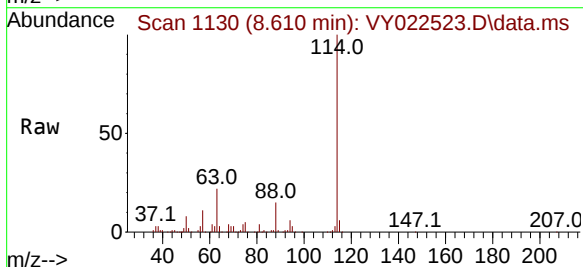
Tgt Ion: 114 Resp: 163313

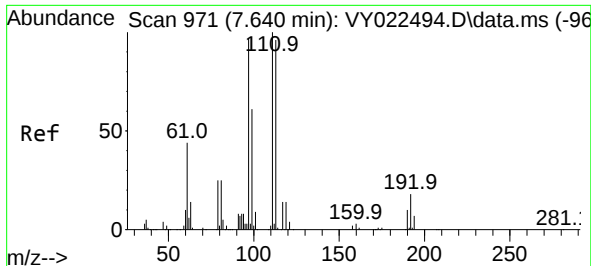
Ion Ratio Lower Upper

114 100

63 21.8 0.0 40.8

88 15.1 0.0 27.8





#35

Dibromofluoromethane

Concen: 47.456 ug/l

RT: 7.634 min Scan# 91

Delta R.T. -0.006 min

Lab File: VY022523.D

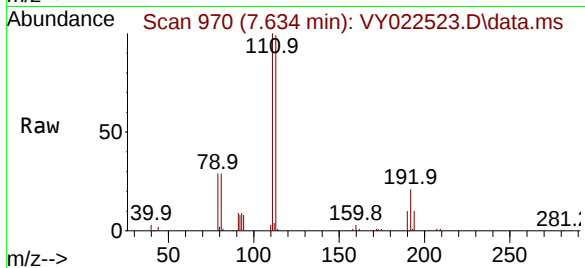
Acq: 03 Jun 2025 15:24

Instrument :

MSVOA_Y

ClientSampleId :

OR-03-06022025



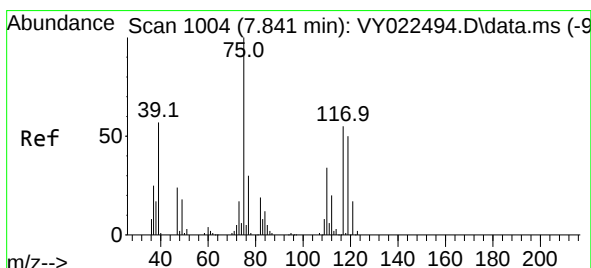
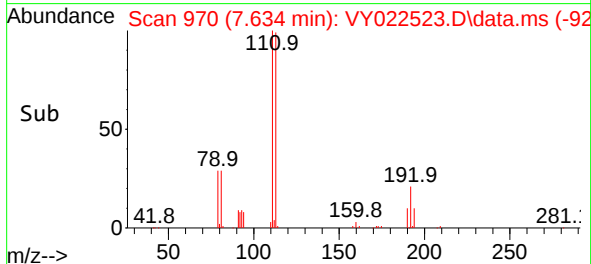
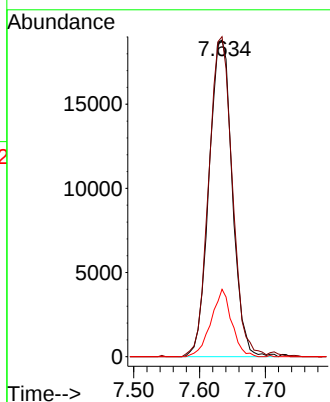
Tgt Ion:113 Resp: 46259

Ion Ratio Lower Upper

113 100

111 102.1 81.1 121.7

192 19.0 14.2 21.2



#36

1,1-Dichloropropene

Concen: 5.301 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.134 min

Lab File: VY022523.D

Acq: 03 Jun 2025 15:24

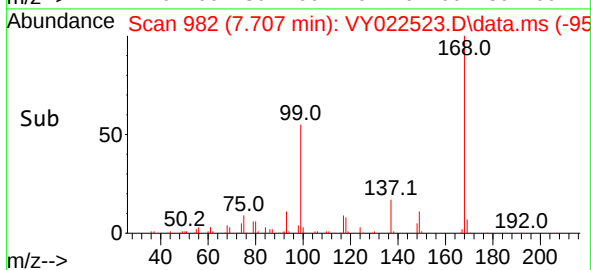
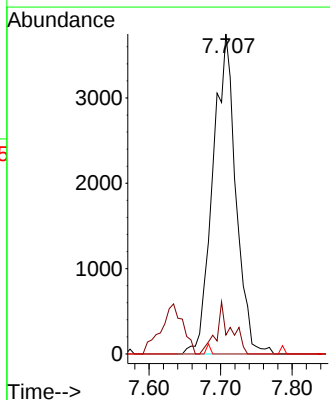
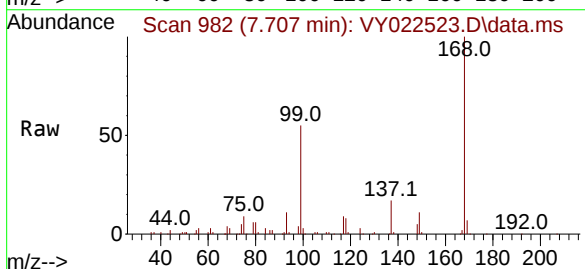
Tgt Ion: 75 Resp: 8387

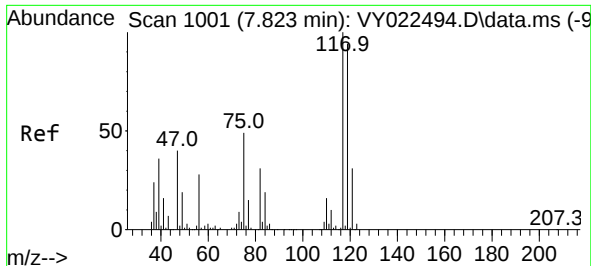
Ion Ratio Lower Upper

75 100

110 10.2 16.9 50.7#

77 0.0 24.8 37.2#

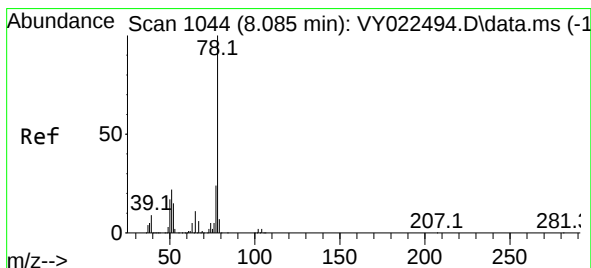
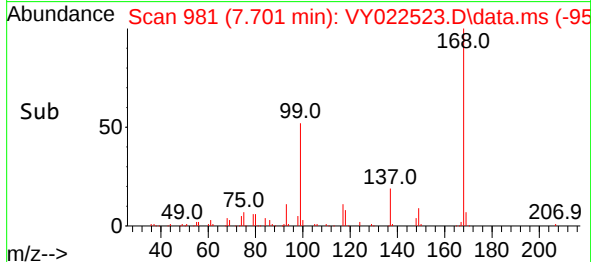
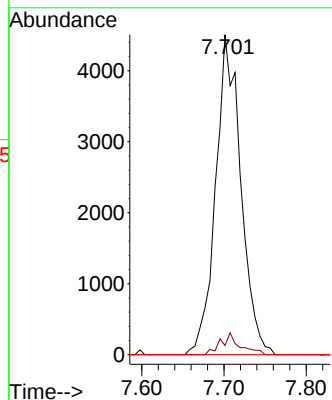
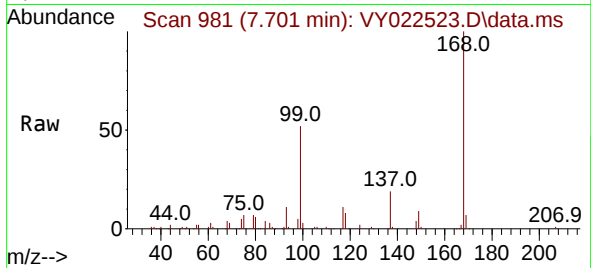




#38
Carbon Tetrachloride
Concen: 5.921 ug/l
RT: 7.701 min Scan# 91
Delta R.T. -0.122 min
Lab File: VY022523.D
Acq: 03 Jun 2025 15:24

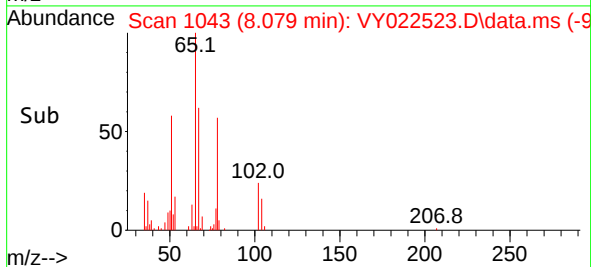
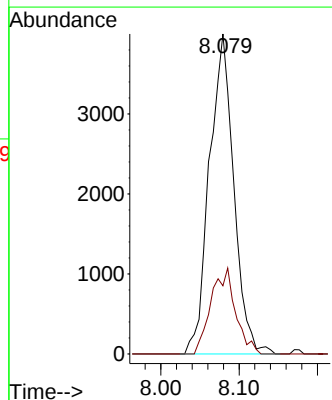
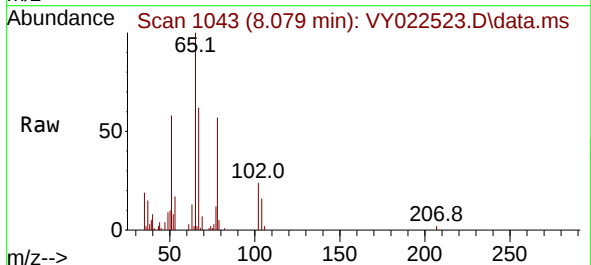
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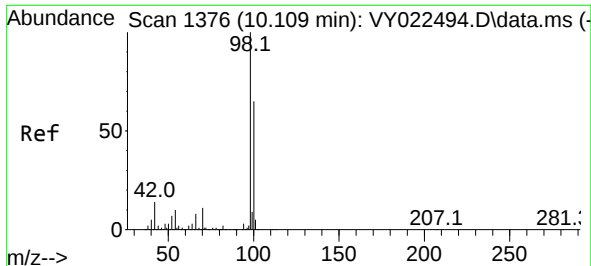
Tgt Ion:117 Resp: 9610
Ion Ratio Lower Upper
117 100
119 2.9 75.0 112.6#
121 0.0 25.0 37.4#



#40
Benzene
Concen: 1.854 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.006 min
Lab File: VY022523.D
Acq: 03 Jun 2025 15:24

Tgt Ion: 78 Resp: 8662
Ion Ratio Lower Upper
78 100
77 21.3 19.3 28.9

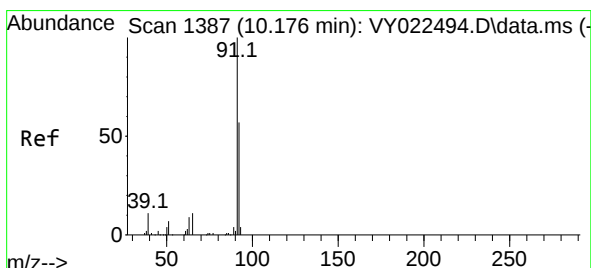
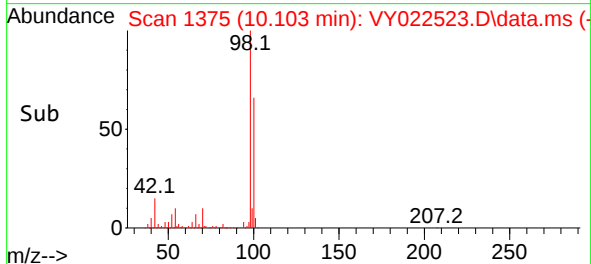
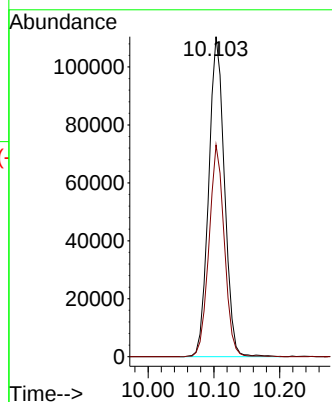
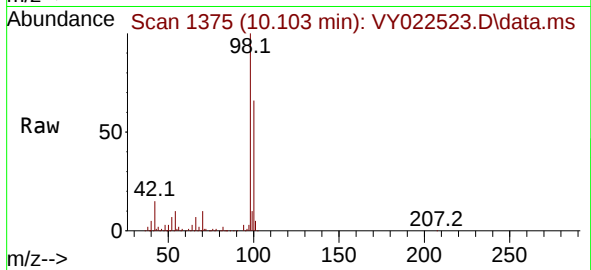




#50
Toluene-d8
Concen: 46.789 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY022523.D
Acq: 03 Jun 2025 15:24

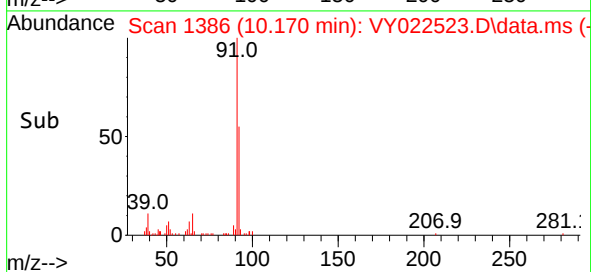
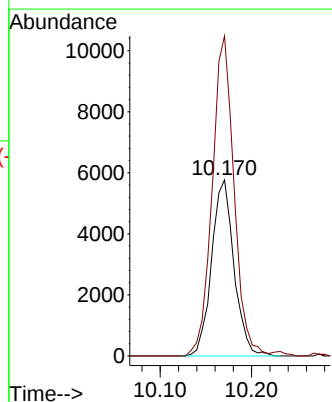
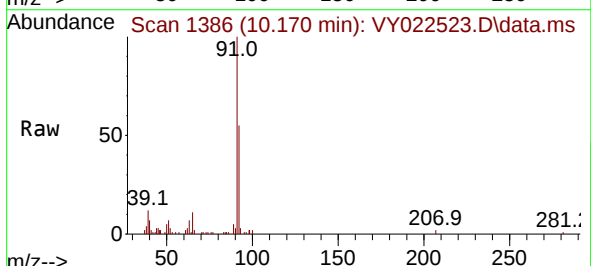
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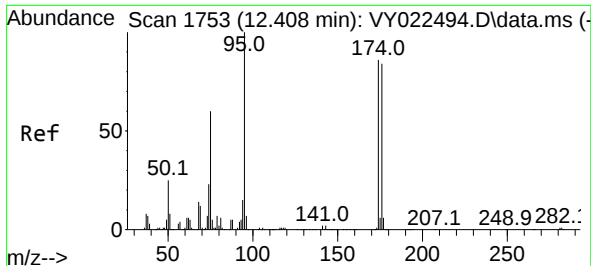
Tgt Ion: 98 Resp: 184290
Ion Ratio Lower Upper
98 100
100 64.4 51.4 77.0



#52
Toluene
Concen: 3.340 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.006 min
Lab File: VY022523.D
Acq: 03 Jun 2025 15:24

Tgt Ion: 92 Resp: 9809
Ion Ratio Lower Upper
92 100
91 177.1 139.0 208.4

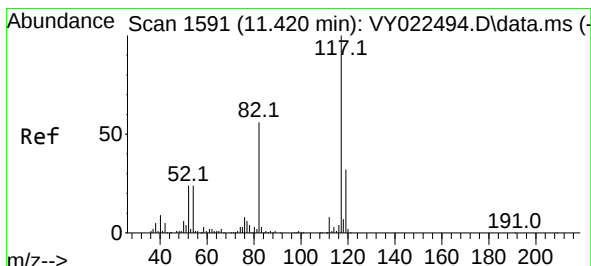
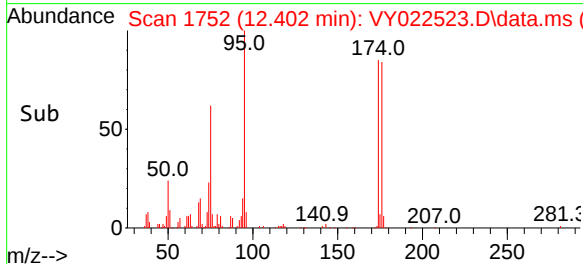
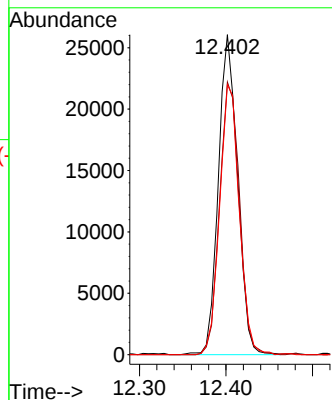
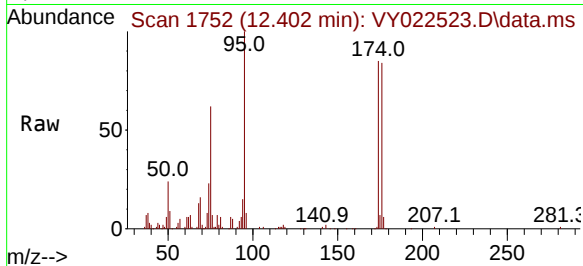




#62
4-Bromofluorobenzene
Concen: 34.218 ug/l
RT: 12.402 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY022523.D
Acq: 03 Jun 2025 15:24

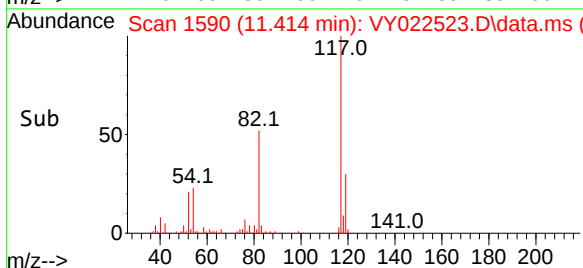
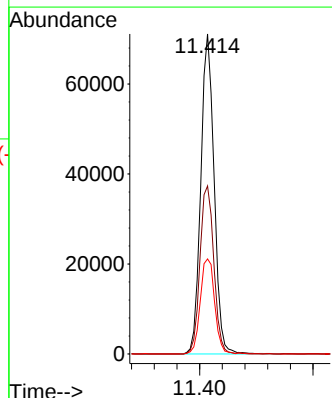
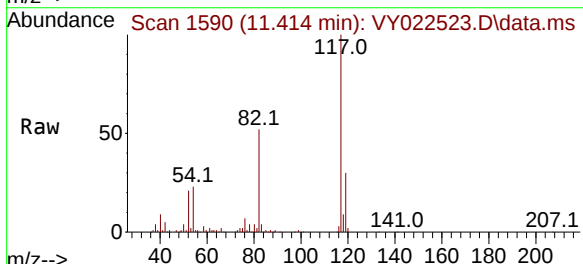
Instrument :
MSVOA_Y
ClientSampleId :
OR-03-06022025

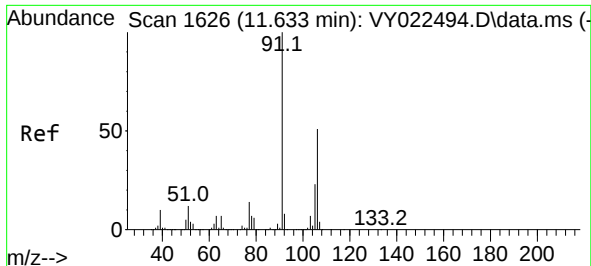
Tgt Ion:	95	Resp:	40156
Ion	Ratio	Lower	Upper
95	100		
174	88.6	0.0	170.0
176	86.3	0.0	166.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.006 min
Lab File: VY022523.D
Acq: 03 Jun 2025 15:24

Tgt Ion:	117	Resp:	115733
Ion	Ratio	Lower	Upper
117	100		
82	52.5	44.6	66.8
119	29.7	25.4	38.0

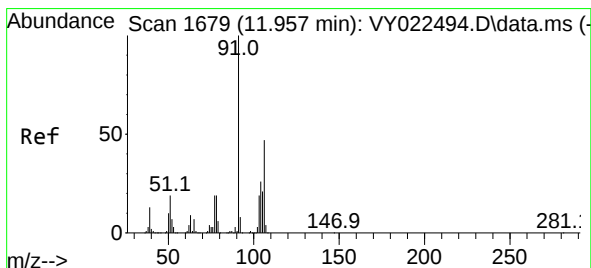
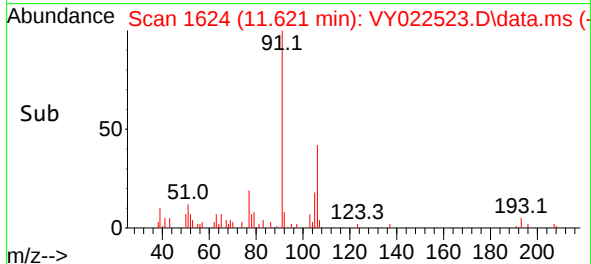
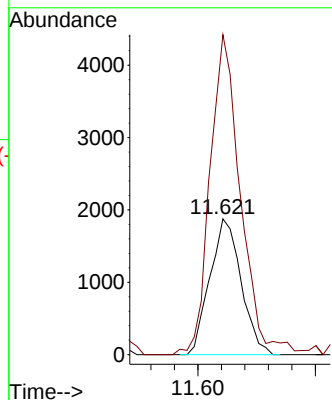
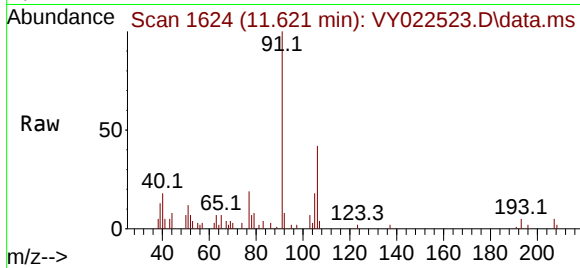




#68
m/p-Xylenes
Concen: 1.924 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. -0.012 min
Lab File: VY022523.D
Acq: 03 Jun 2025 15:24

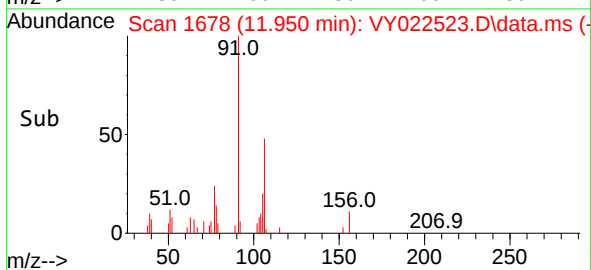
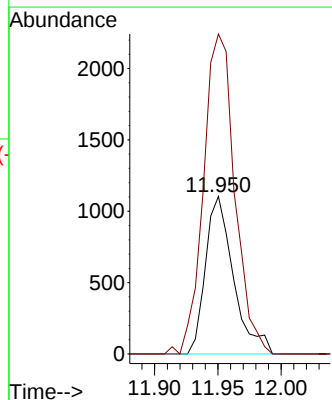
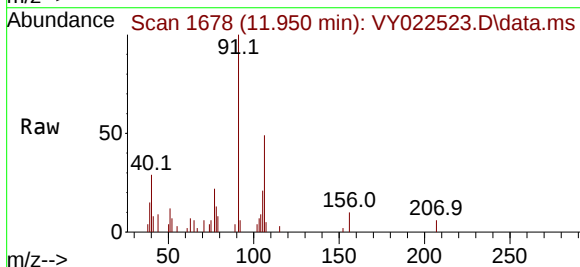
Instrument :
MSVOA_Y
ClientSampleId :
OR-03-06022025

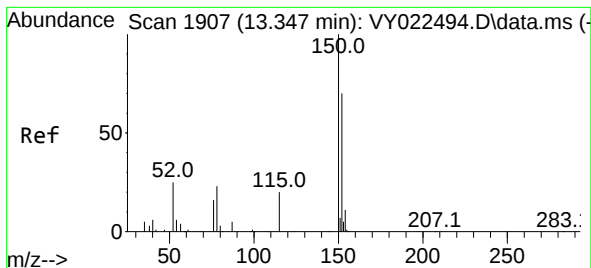
Tgt Ion:106 Resp: 3464
Ion Ratio Lower Upper
106 100
91 229.6 159.4 239.0



#69
o-Xylene
Concen: 1.006 ug/l
RT: 11.950 min Scan# 1678
Delta R.T. -0.006 min
Lab File: VY022523.D
Acq: 03 Jun 2025 15:24

Tgt Ion:106 Resp: 1699
Ion Ratio Lower Upper
106 100
91 227.4 105.8 317.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.340 min Scan# 1907

Delta R.T. -0.006 min

Lab File: VY022523.D

Acq: 03 Jun 2025 15:24

Instrument :

MSVOA_Y

ClientSampleId :

OR-03-06022025

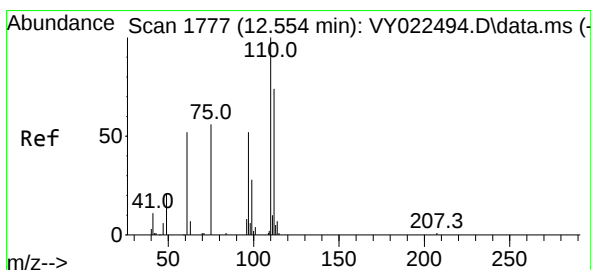
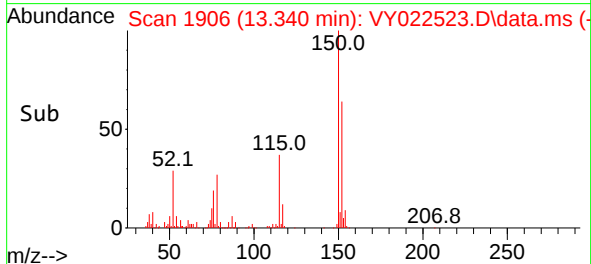
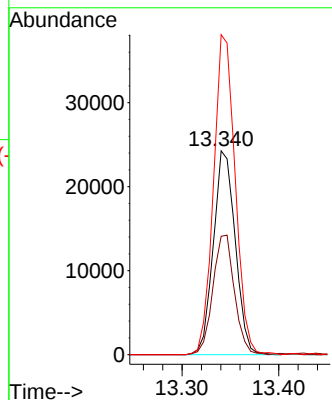
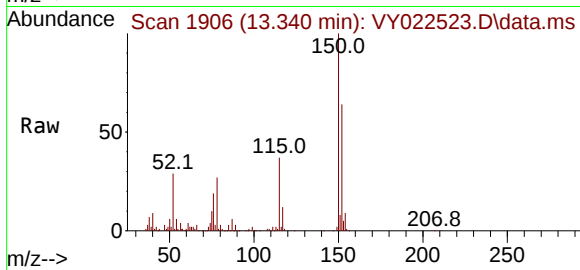
Tgt Ion:152 Resp: 38160

Ion Ratio Lower Upper

152 100

115 57.9 28.9 86.7

150 155.1 0.0 349.6



#76

1,2,3-Trichloropropane

Concen: 56.787 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. -0.152 min

Lab File: VY022523.D

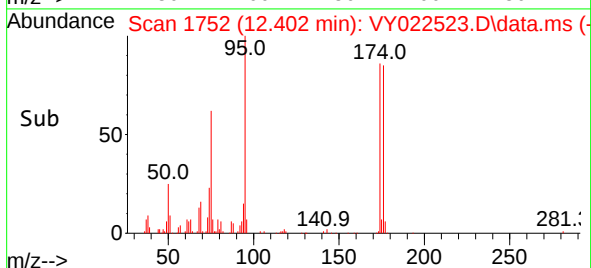
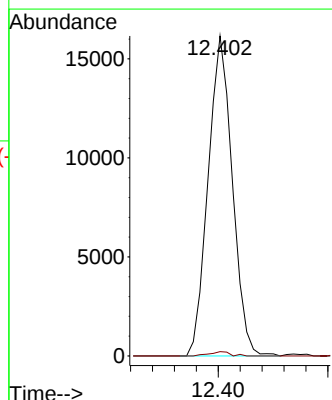
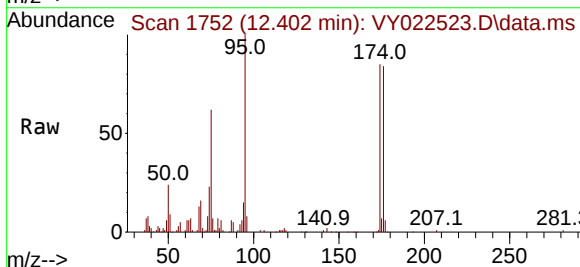
Acq: 03 Jun 2025 15:24

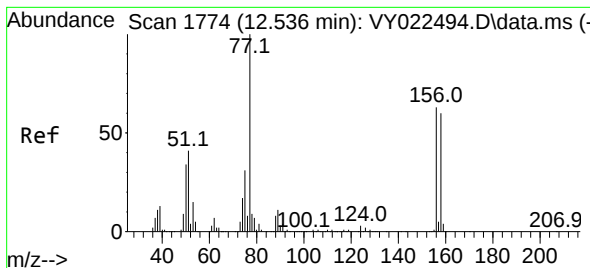
Tgt Ion: 75 Resp: 24791

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#





#77

Bromobenzene

Concen: 2.744 ug/l

RT: 12.597 min Scan# 1752

Delta R.T. 0.061 min

Lab File: VY022523.D

Acq: 03 Jun 2025 15:24

Instrument :

MSVOA_Y

ClientSampleId :

OR-03-06022025

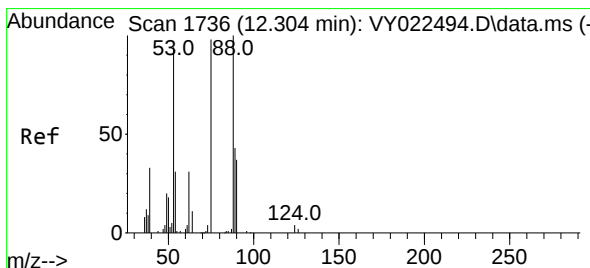
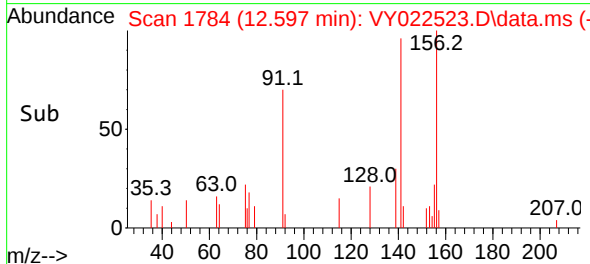
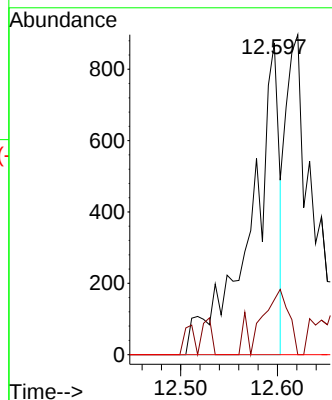
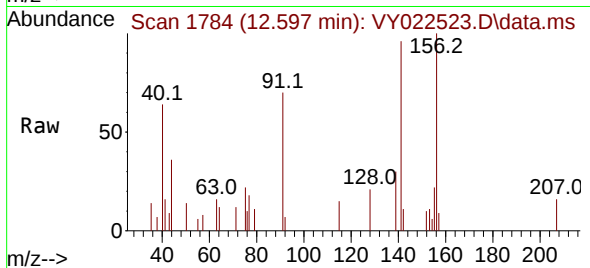
Tgt Ion:156 Resp: 1814

Ion Ratio Lower Upper

156 100

77 17.9 94.0 282.1#

158 0.0 48.2 144.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 137.136 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. 0.098 min

Lab File: VY022523.D

Acq: 03 Jun 2025 15:24

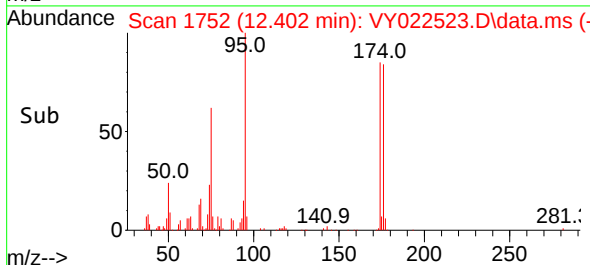
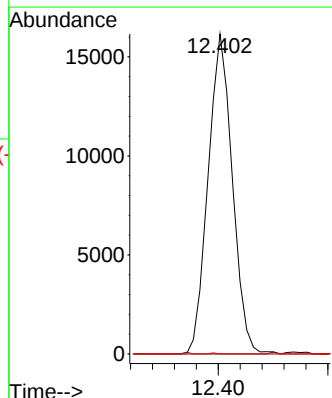
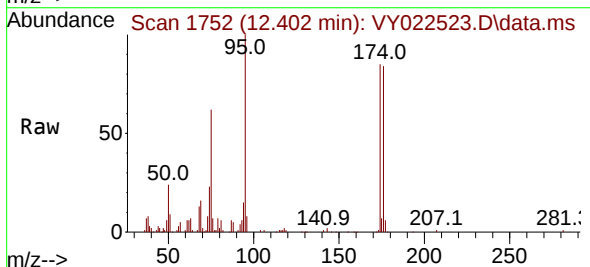
Tgt Ion: 75 Resp: 24791

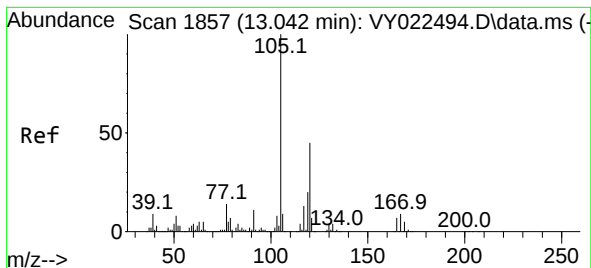
Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.1 35.7 53.5#





#84

1,2,4-Trimethylbenzene

Concen: 1.248 ug/l

RT: 13.042 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY022523.D

Acq: 03 Jun 2025 15:24

Instrument :

MSVOA_Y

ClientSampleId :

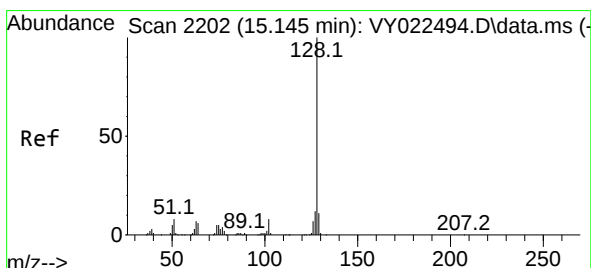
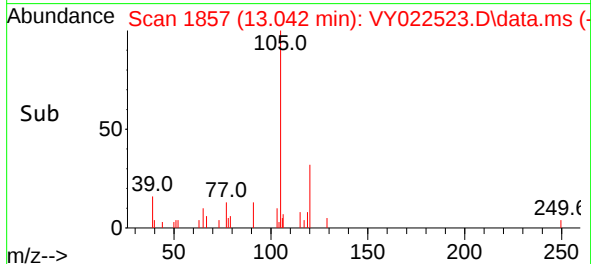
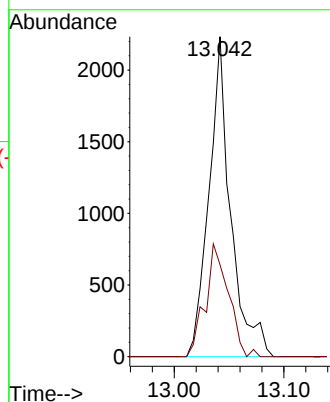
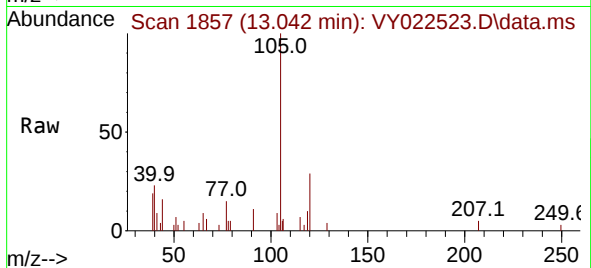
OR-03-06022025

Tgt Ion:105 Resp: 3071

Ion Ratio Lower Upper

105 100

120 37.4 22.7 68.1



#95

Naphthalene

Concen: 13.669 ug/l

RT: 15.139 min Scan# 2201

Delta R.T. -0.006 min

Lab File: VY022523.D

Acq: 03 Jun 2025 15:24

Tgt Ion:128 Resp: 16270

Ion Ratio Lower Upper

128 100

127 13.7 10.4 15.6

129 11.8 8.9 13.3

