

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
 Data File : VY023005.D
 Acq On : 18 Jul 2025 18:10
 Operator : SY/MD
 Sample : Q2638-09
 Misc : 4.73g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 OU4-TS-35-071725

Quant Time: Jul 19 02:14:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 19 01:50:49 2025
 Response via : Initial Calibration

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

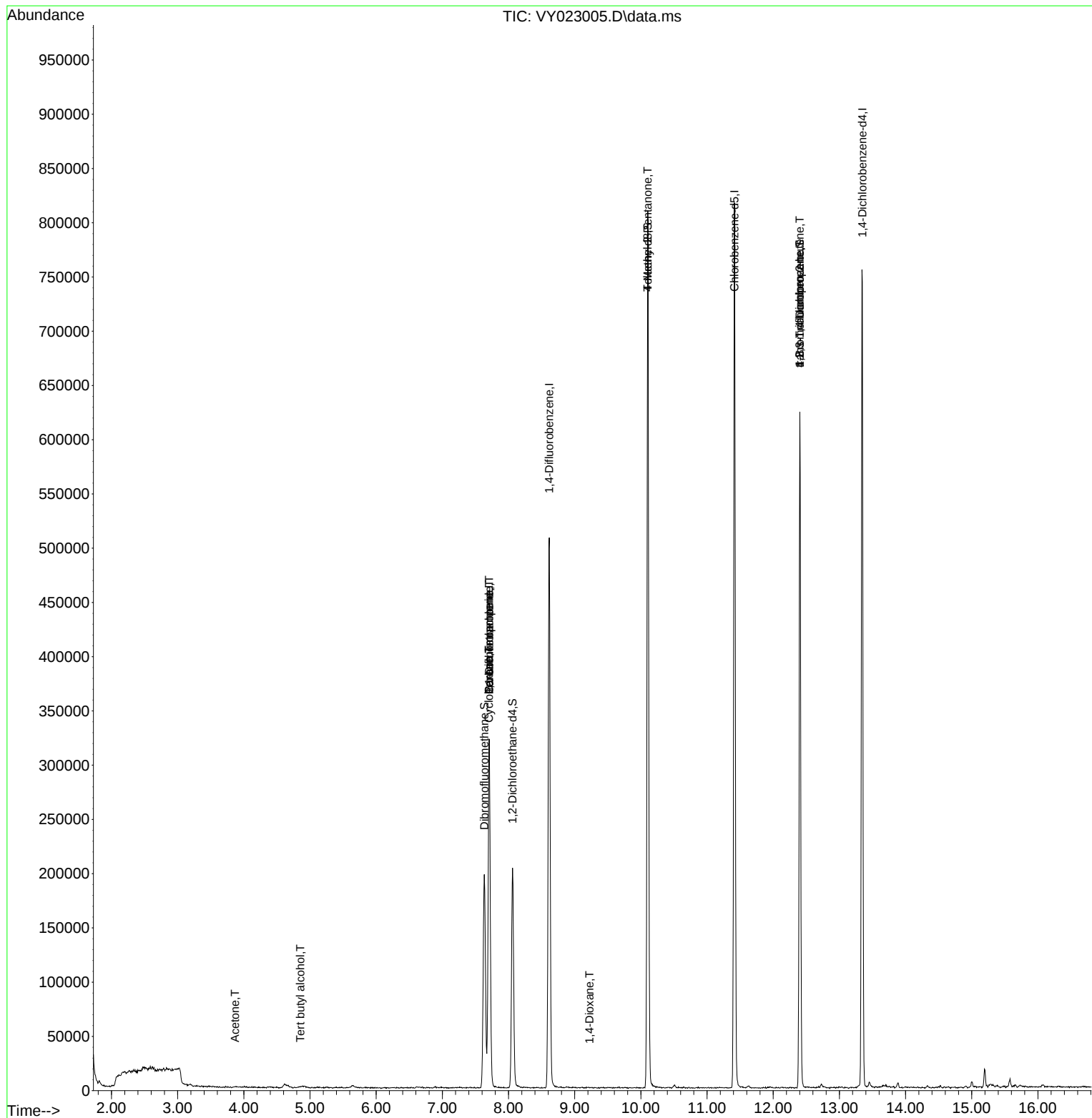
Internal Standards						
1) Pentafluorobenzene	7.707	168	238624	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	432683	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	412416	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	187775	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	160359	66.383	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 132.760%	
35) Dibromofluoromethane	7.634	113	141908	51.703	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 103.400%	
50) Toluene-d8	10.103	98	515996	47.407	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 94.820%	
62) 4-Bromofluorobenzene	12.401	95	180693	52.738	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 105.480%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.854	59	1373	9.398	ug/l #	77
16) Acetone	3.866	43	1089	2.487	ug/l	94
20) Methylene Chloride	4.610	84	1666	Below Cal	#	91
31) Cyclohexane	7.701	56	5712	1.188	ug/l #	40
36) 1,1-Dichloropropene	7.707	75	20072	4.643	ug/l #	50
38) Carbon Tetrachloride	7.707	117	24275	5.168	ug/l #	16
49) 1,4-Dioxane	9.225	88	19	1.147	ug/l #	21
51) 4-Methyl-2-Pentanone	10.103	43	2452	1.515	ug/l #	1
76) 1,2,3-Trichloropropane	12.401	75	101231	43.264	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.401	75	101231	128.861	ug/l #	12

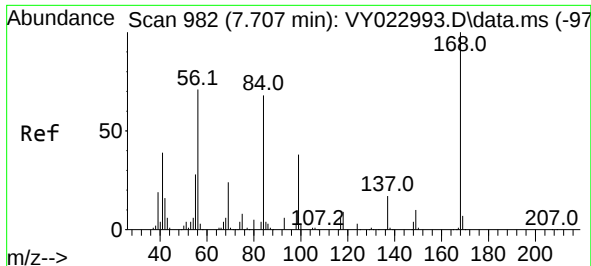
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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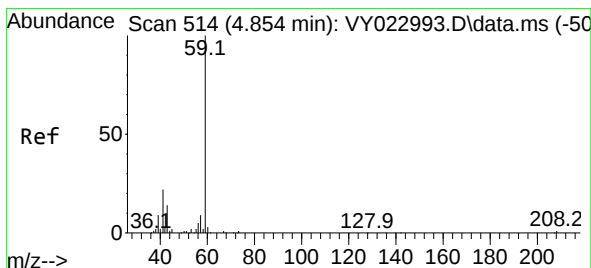
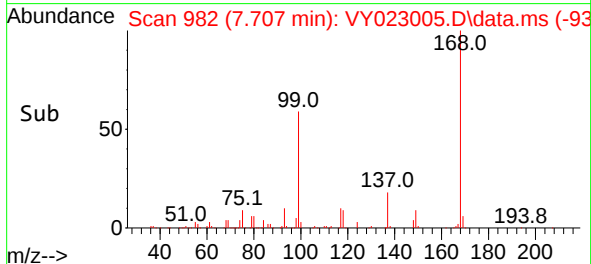
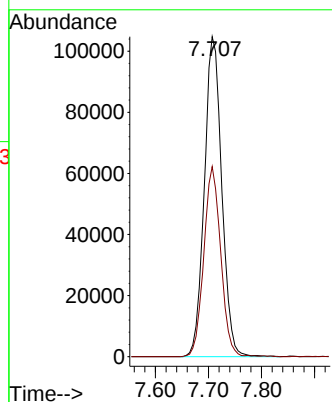
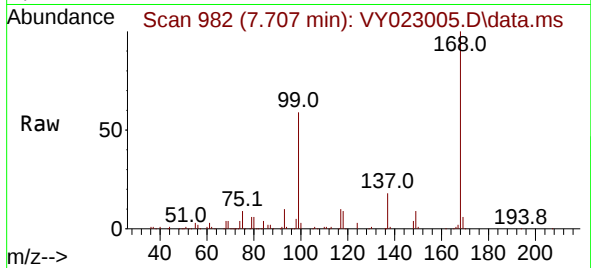




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY023005.D
Acq: 18 Jul 2025 18:10

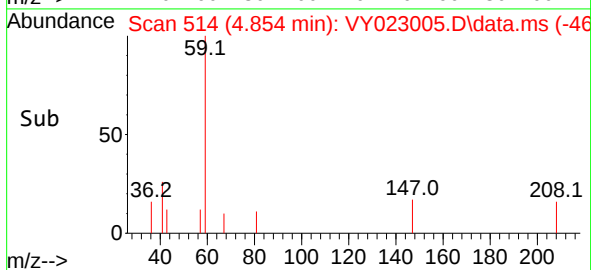
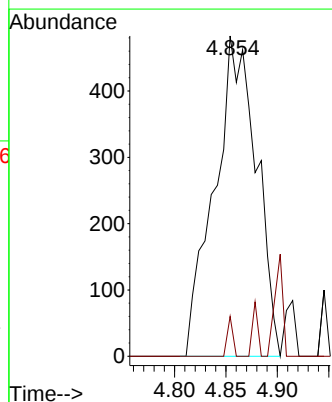
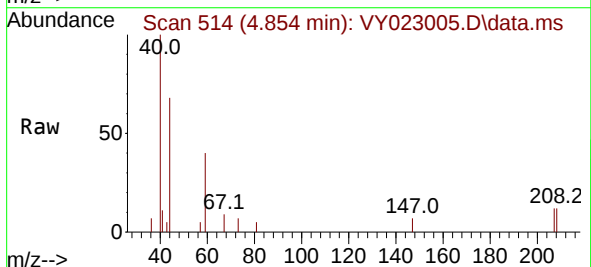
Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-35-071725

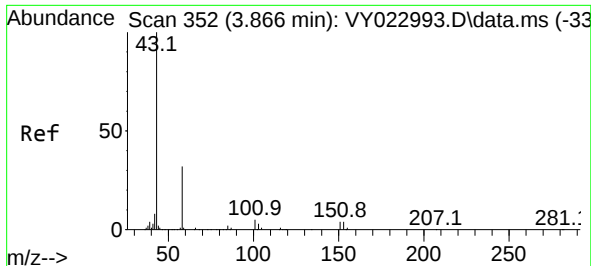
Tgt Ion:168 Resp: 238624
Ion Ratio Lower Upper
168 100
99 59.4 44.4 66.6



#11
Tert butyl alcohol
Concen: 9.398 ug/l
RT: 4.854 min Scan# 514
Delta R.T. -0.000 min
Lab File: VY023005.D
Acq: 18 Jul 2025 18:10

Tgt Ion: 59 Resp: 1373
Ion Ratio Lower Upper
59 100
57 1.6 8.2 12.2#

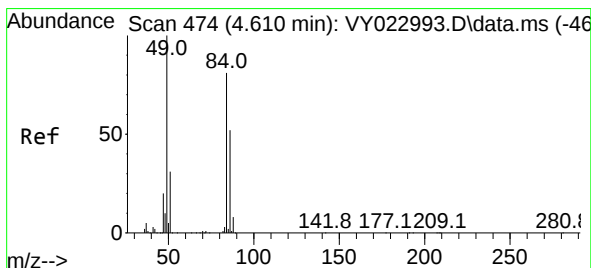
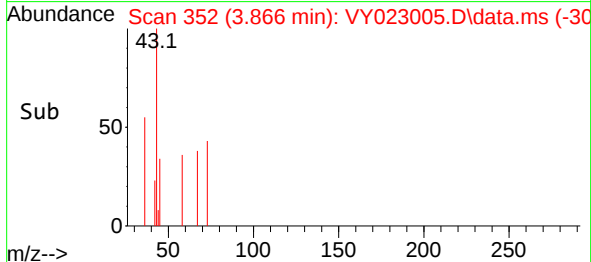
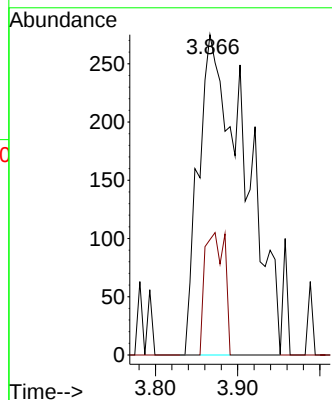
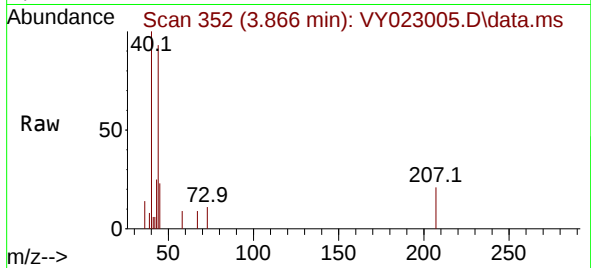




#16
Acetone
Concen: 2.487 ug/l
RT: 3.866 min Scan# 31
Delta R.T. -0.000 min
Lab File: VY023005.D
Acq: 18 Jul 2025 18:10

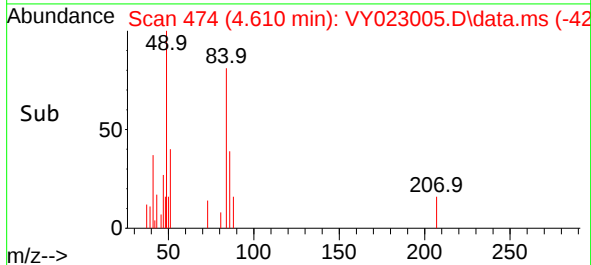
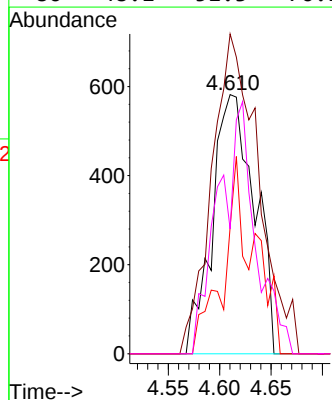
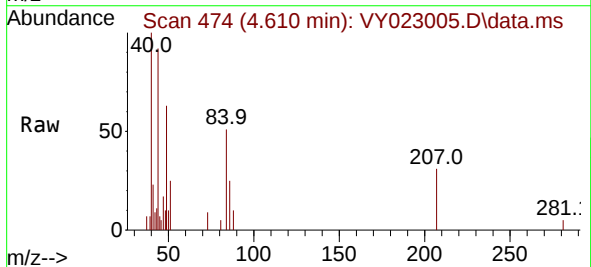
Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-35-071725

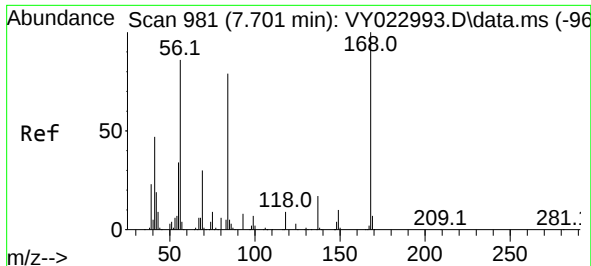
Tgt Ion: 43 Resp: 1089
Ion Ratio Lower Upper
43 100
58 36.0 26.2 39.4



#20
Methylene Chloride
Concen: Below Cal
RT: 4.610 min Scan# 474
Delta R.T. 0.000 min
Lab File: VY023005.D
Acq: 18 Jul 2025 18:10

Tgt Ion: 84 Resp: 1666
Ion Ratio Lower Upper
84 100
49 123.4 98.2 147.4
51 48.8 30.5 45.7#
86 48.1 51.3 76.9#

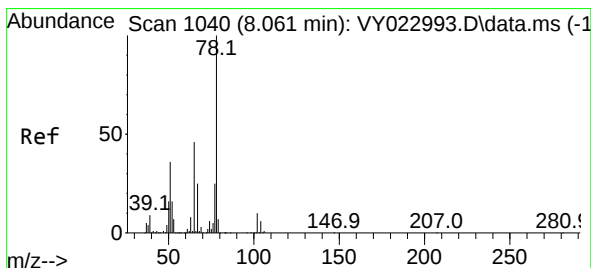
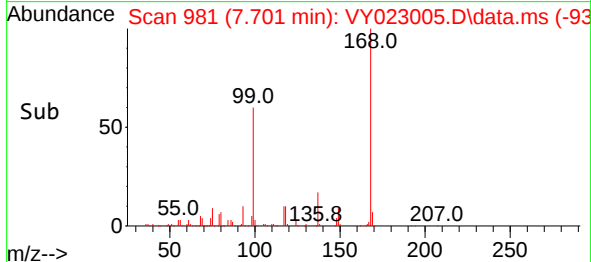
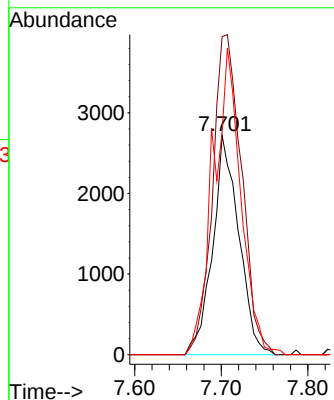
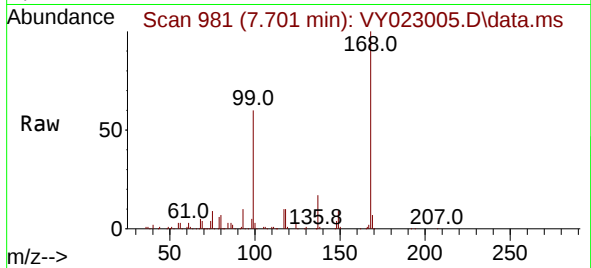




#31
Cyclohexane
Concen: 1.188 ug/l
RT: 7.701 min Scan# 981
Delta R.T. -0.000 min
Lab File: VY023005.D
Acq: 18 Jul 2025 18:10

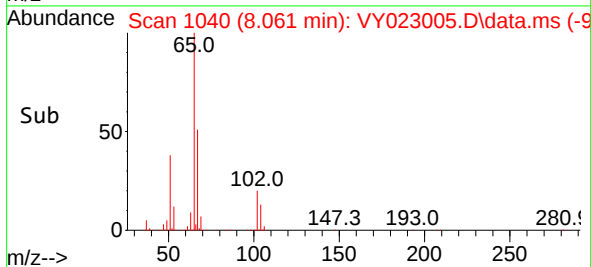
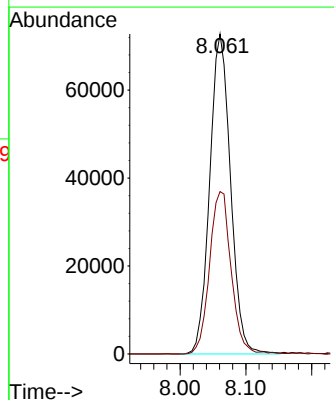
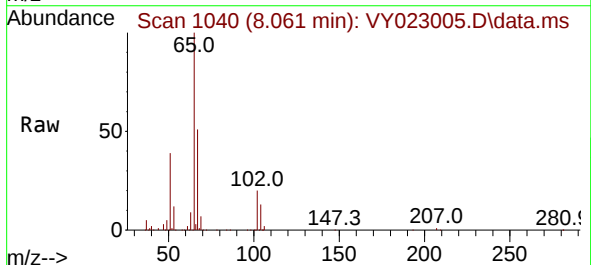
Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-35-071725

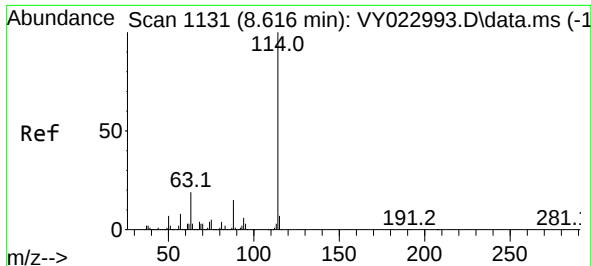
Tgt Ion: 56 Resp: 5712
Ion Ratio Lower Upper
56 100
69 145.3 28.1 42.1#
84 101.8 73.5 110.3



#33
1,2-Dichloroethane-d4
Concen: 66.383 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY023005.D
Acq: 18 Jul 2025 18:10

Tgt Ion: 65 Resp: 160359
Ion Ratio Lower Upper
65 100
67 52.6 0.0 107.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY023005.D

Acq: 18 Jul 2025 18:10

Instrument :

MSVOA_Y

ClientSampleId :

OU4-TS-35-071725

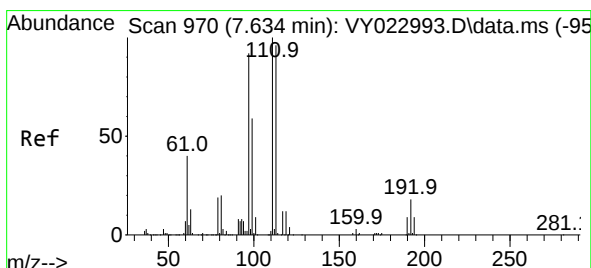
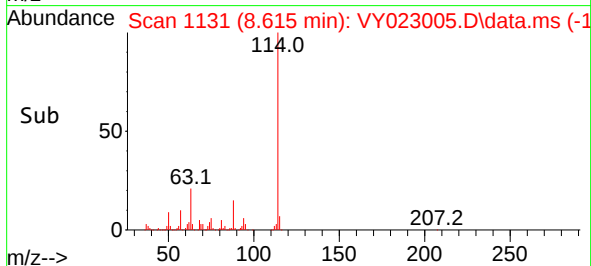
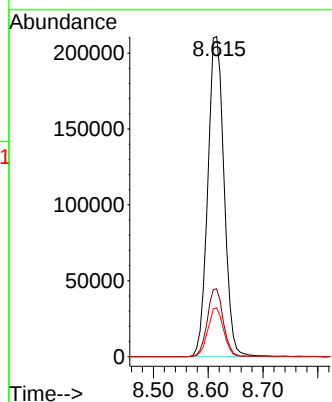
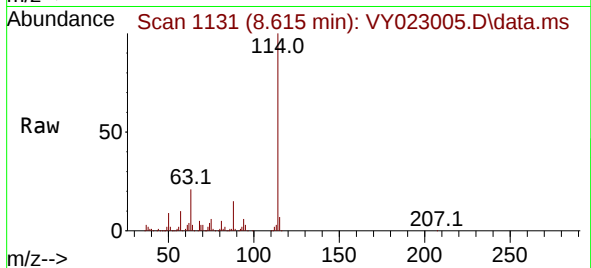
Tgt Ion:114 Resp: 432683

Ion Ratio Lower Upper

114 100

63 21.2 0.0 38.8

88 15.3 0.0 30.2



#35

Dibromofluoromethane

Concen: 51.703 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.000 min

Lab File: VY023005.D

Acq: 18 Jul 2025 18:10

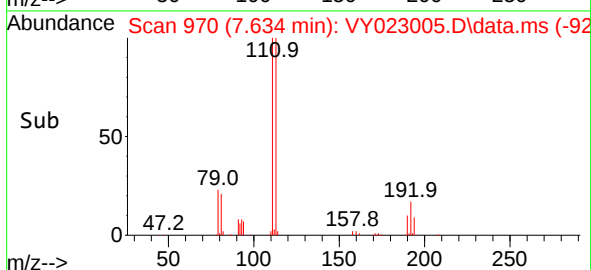
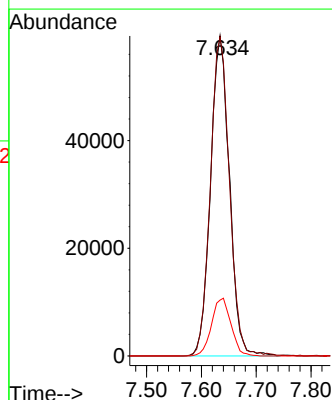
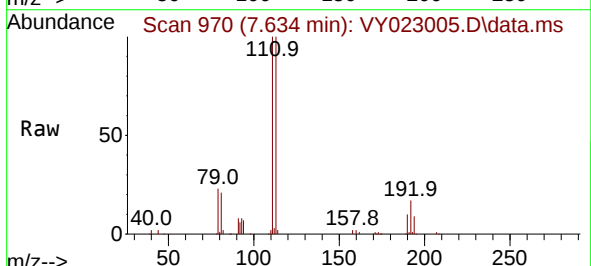
Tgt Ion:113 Resp: 141908

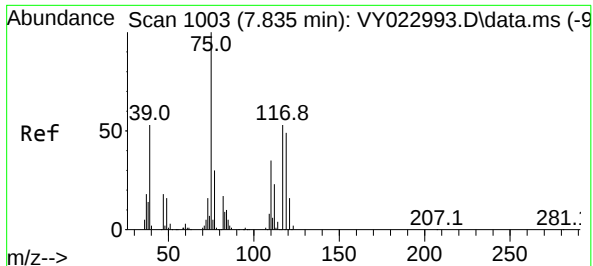
Ion Ratio Lower Upper

113 100

111 101.0 83.2 124.8

192 18.6 15.3 22.9





#36

1,1-Dichloropropene

Concen: 4.643 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.128 min

Lab File: VY023005.D

Acq: 18 Jul 2025 18:10

Instrument :

MSVOA_Y

ClientSampleId :

OU4-TS-35-071725

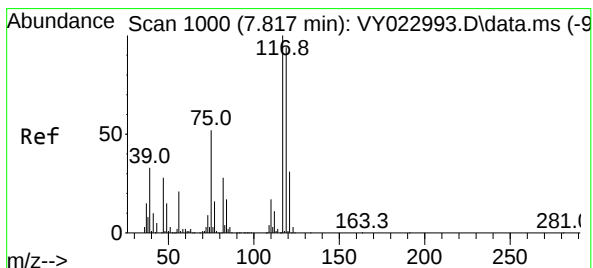
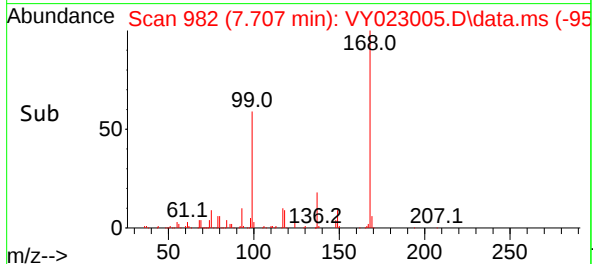
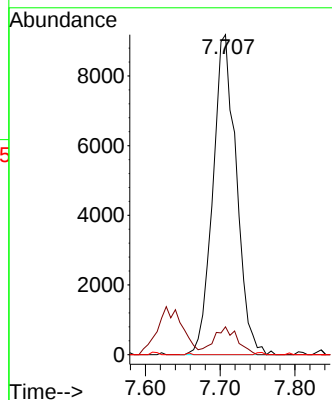
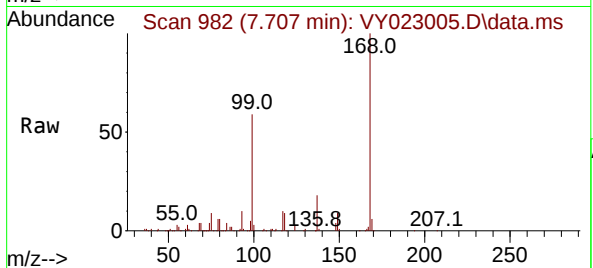
Tgt Ion: 75 Resp: 20072

Ion Ratio Lower Upper

75 100

110 8.8 17.3 51.9#

77 0.0 24.6 37.0#



#38

Carbon Tetrachloride

Concen: 5.168 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.110 min

Lab File: VY023005.D

Acq: 18 Jul 2025 18:10

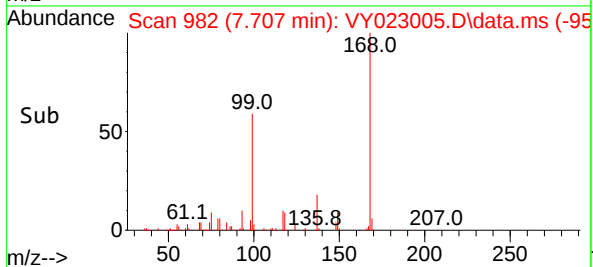
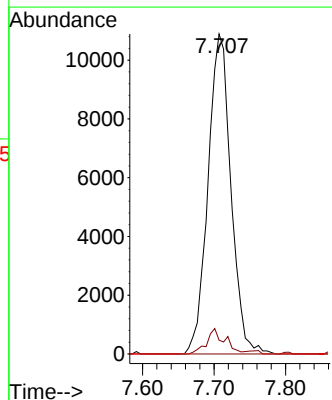
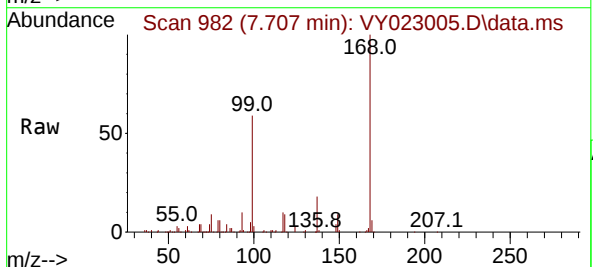
Tgt Ion: 117 Resp: 24275

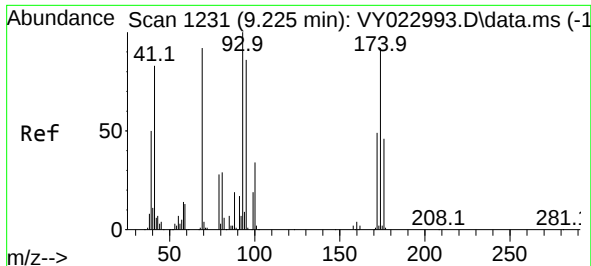
Ion Ratio Lower Upper

117 100

119 4.3 74.9 112.3#

121 0.0 24.6 37.0#





#49

1,4-Dioxane

Concen: 1.147 ug/l

RT: 9.225 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY023005.D

Acq: 18 Jul 2025 18:10

Instrument :

MSVOA_Y

ClientSampleId :

OU4-TS-35-071725

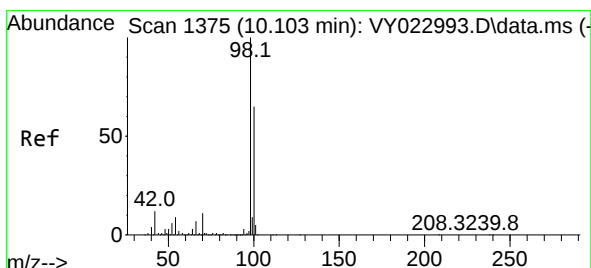
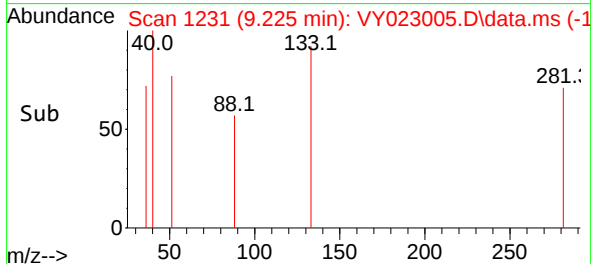
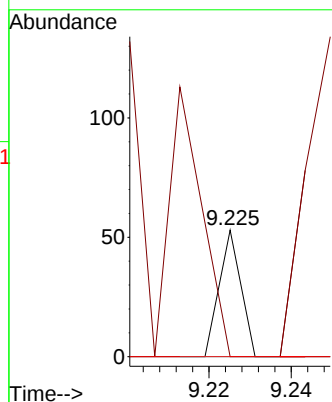
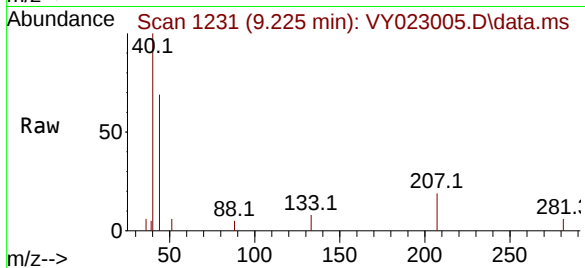
Tgt Ion: 88 Resp: 19

Ion Ratio Lower Upper

88 100

43 0.0 28.7 43.1#

58 0.0 59.8 89.6#



#50

Toluene-d8

Concen: 47.407 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. -0.000 min

Lab File: VY023005.D

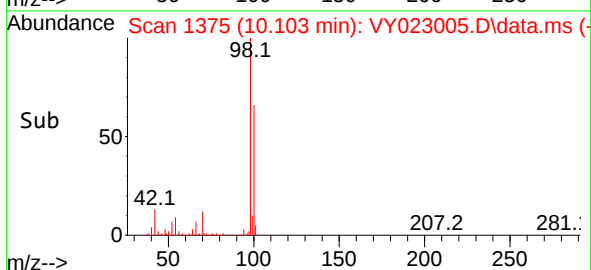
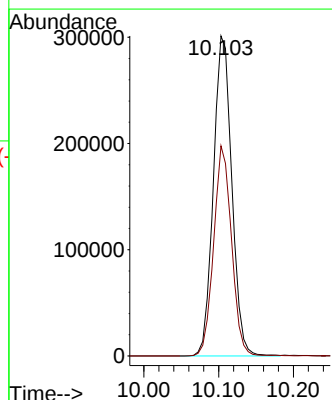
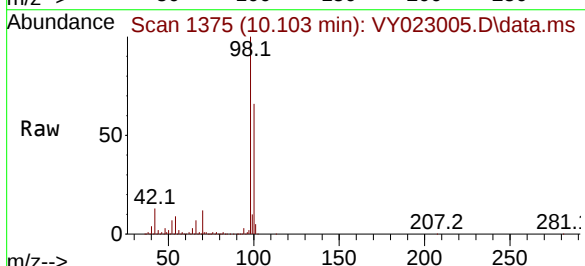
Acq: 18 Jul 2025 18:10

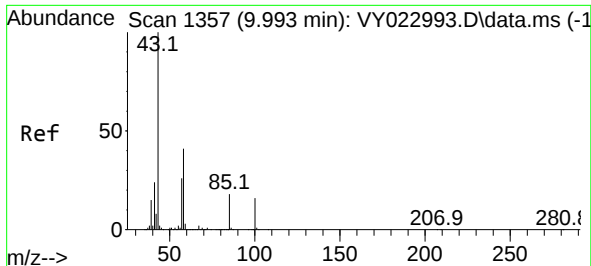
Tgt Ion: 98 Resp: 515996

Ion Ratio Lower Upper

98 100

100 63.8 52.2 78.2

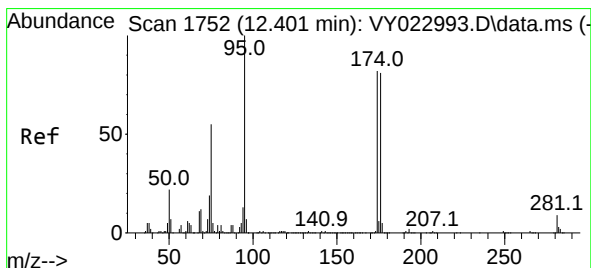
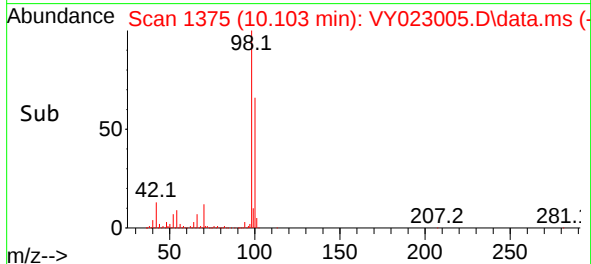
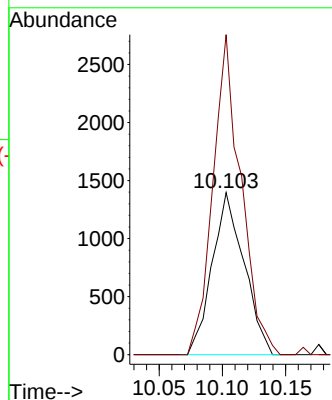
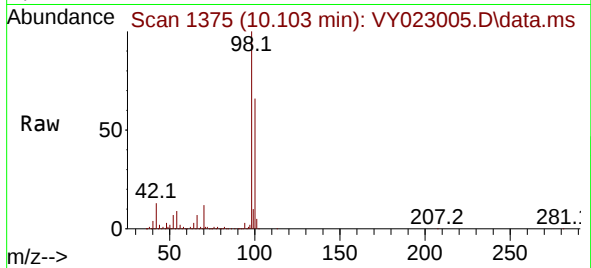




#51
4-Methyl-2-Pentanone
Concen: 1.515 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.110 min
Lab File: VY023005.D
Acq: 18 Jul 2025 18:10

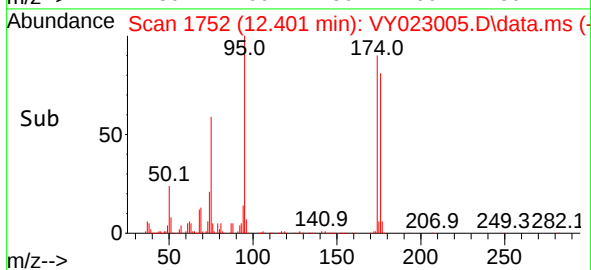
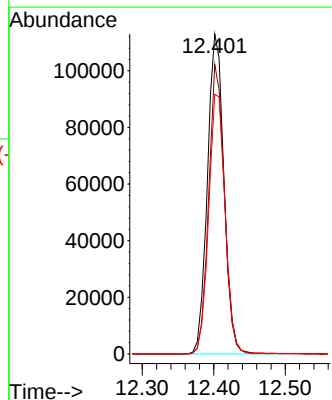
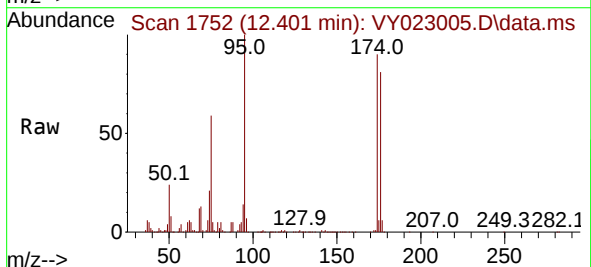
Instrument :
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OU4-TS-35-071725

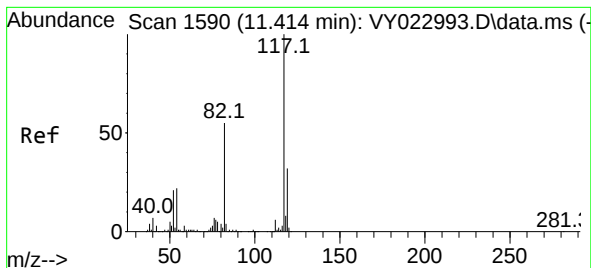
Tgt Ion: 43 Resp: 2452
Ion Ratio Lower Upper
43 100
58 173.6 32.5 48.7#



#62
4-Bromofluorobenzene
Concen: 52.738 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023005.D
Acq: 18 Jul 2025 18:10

Tgt Ion: 95 Resp: 180693
Ion Ratio Lower Upper
95 100
174 86.8 0.0 170.8
176 81.2 0.0 163.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY023005.D

Acq: 18 Jul 2025 18:10

Instrument :

MSVOA_Y

ClientSampleId :

OU4-TS-35-071725

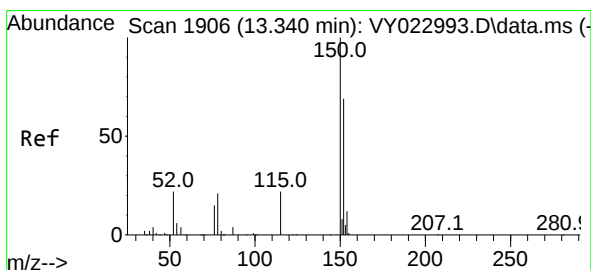
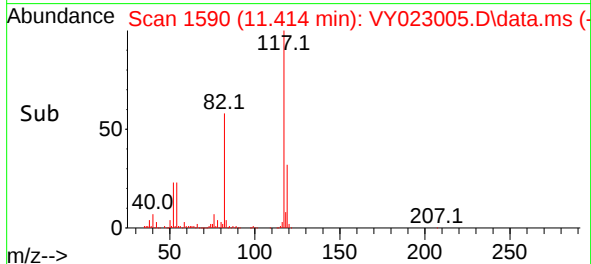
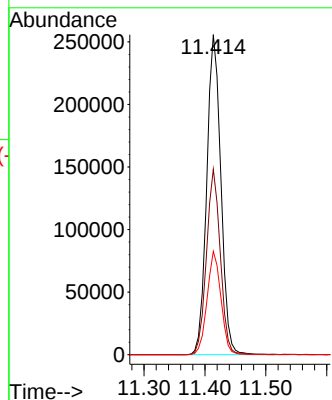
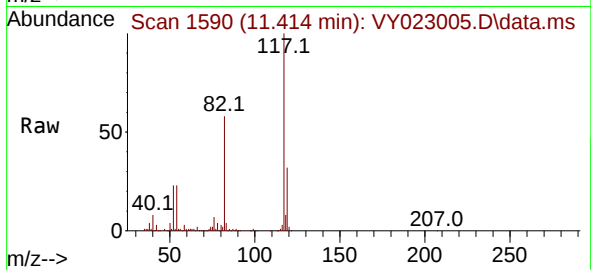
Tgt Ion:117 Resp: 412416

Ion Ratio Lower Upper

117 100

82 58.0 44.3 66.5

119 32.3 25.8 38.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. 0.006 min

Lab File: VY023005.D

Acq: 18 Jul 2025 18:10

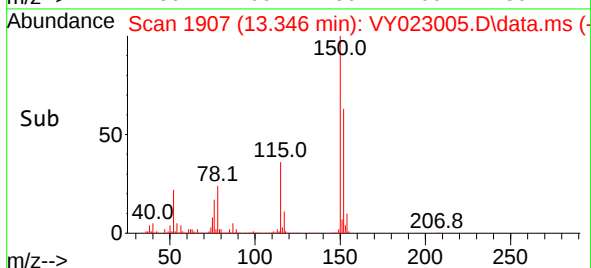
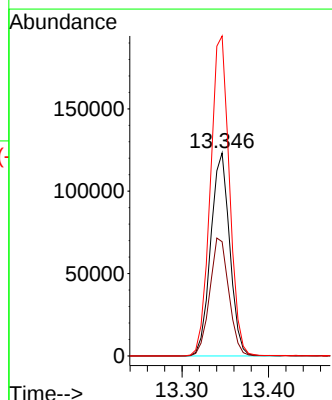
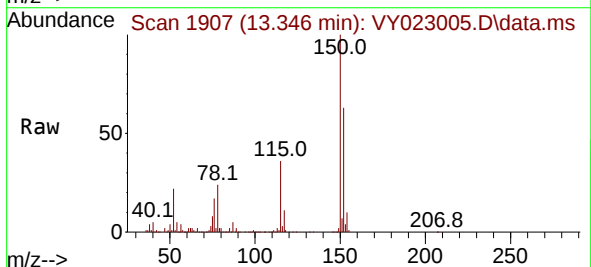
Tgt Ion:152 Resp: 187775

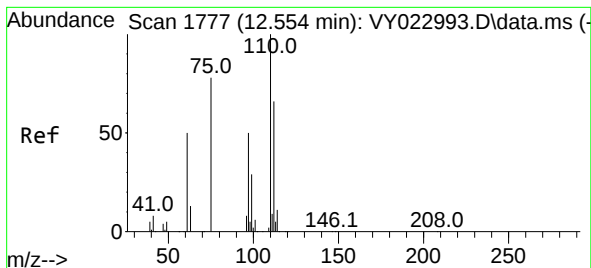
Ion Ratio Lower Upper

152 100

115 58.4 29.4 88.2

150 157.7 0.0 350.0





#76

1,2,3-Trichloropropane

Concen: 43.264 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. -0.153 min

Lab File: VY023005.D

Acq: 18 Jul 2025 18:10

Instrument :

MSVOA_Y

ClientSampleId :

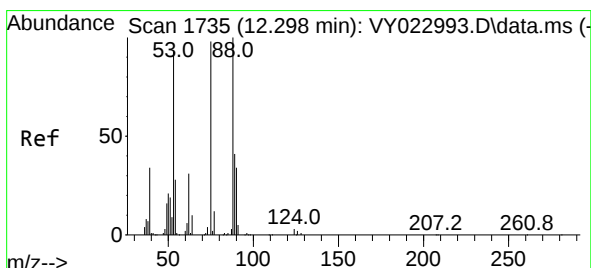
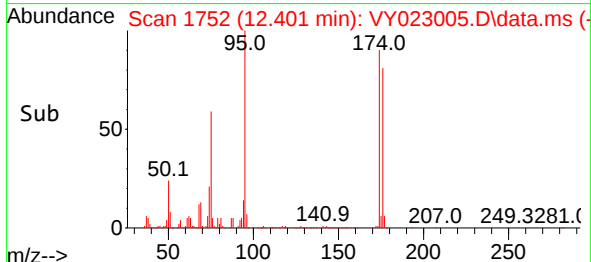
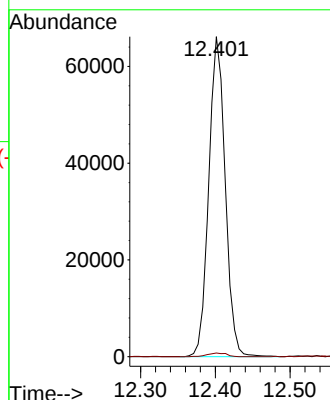
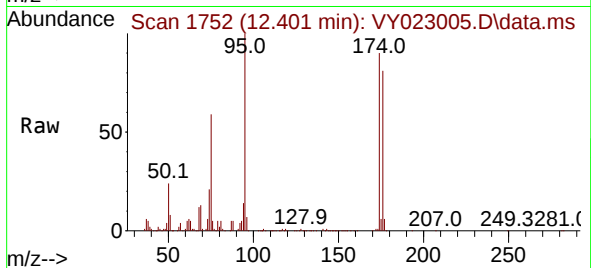
OU4-TS-35-071725

Tgt Ion: 75 Resp: 101231

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 128.861 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. 0.104 min

Lab File: VY023005.D

Acq: 18 Jul 2025 18:10

Tgt Ion: 75 Resp: 101231

Ion Ratio Lower Upper

75 100

53 0.1 76.1 114.1#

89 0.1 36.1 54.1#

