

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
 Data File : VY023012.D
 Acq On : 18 Jul 2025 20:49
 Operator : SY/MD
 Sample : Q2639-09
 Misc : 4.56g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 OU4-TS-42-071725

Quant Time: Jul 19 02:16:52 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)

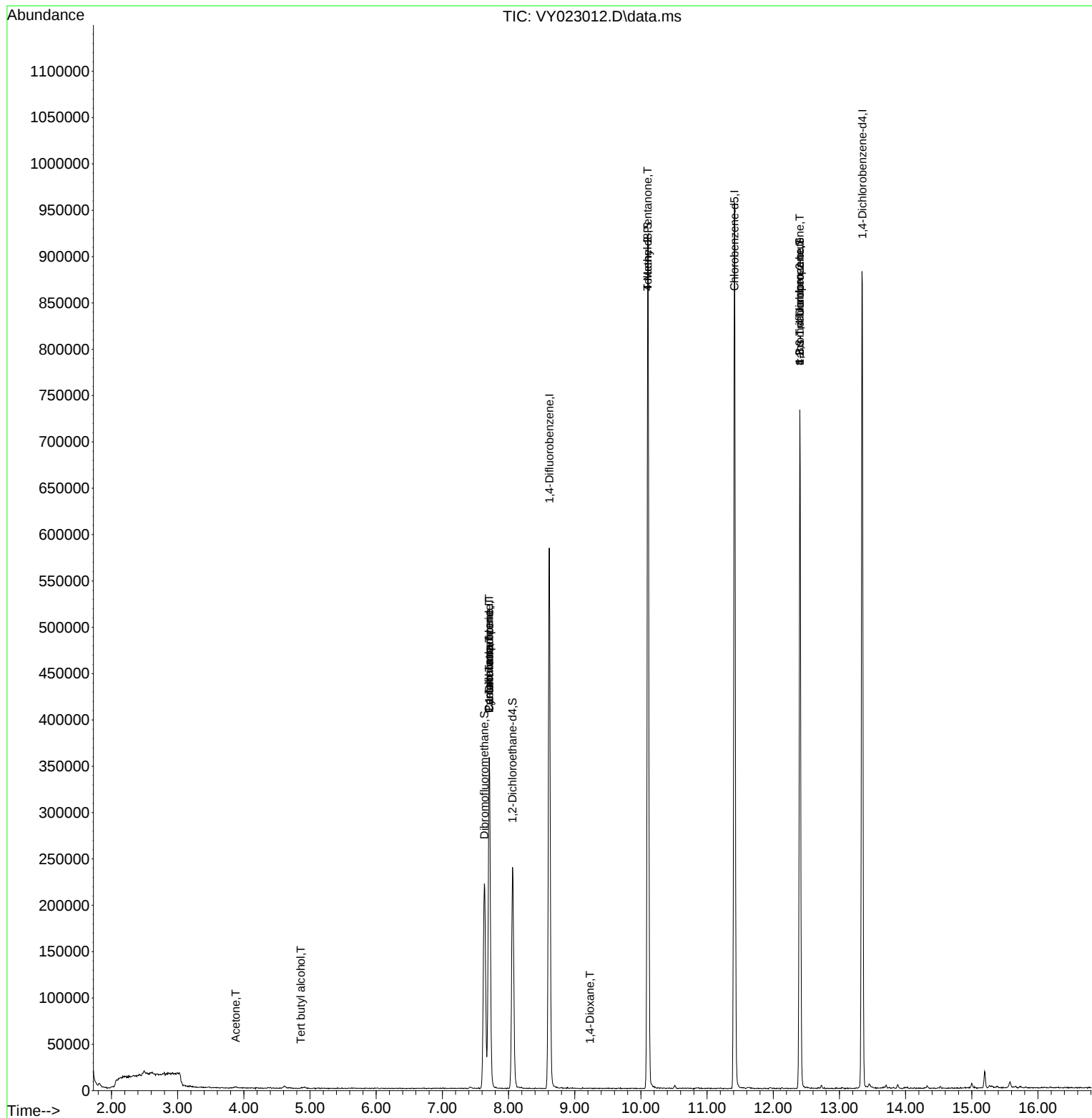
Internal Standards						
1) Pentafluorobenzene	7.707	168	266561	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	482479	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	478564	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	222468	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	188974	70.030	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 140.060%	
35) Dibromofluoromethane	7.634	113	159680	52.174	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 104.340%	
50) Toluene-d8	10.103	98	596042	49.110	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 98.220%	
62) 4-Bromofluorobenzene	12.402	95	207811	54.393	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 108.780%	
Target Compounds						
11) Tert butyl alcohol	4.860	59	439	2.690	ug/l #	73
16) Acetone	3.879	43	1689	3.453	ug/l #	67
20) Methylene Chloride	4.616	84	1489	Below Cal	#	75
31) Cyclohexane	7.707	56	6721	1.251	ug/l #	28
36) 1,1-Dichloropropene	7.707	75	22913	4.753	ug/l #	49
38) Carbon Tetrachloride	7.707	117	27224	5.198	ug/l #	17
49) 1,4-Dioxane	9.231	88	59	3.195	ug/l #	1
51) 4-Methyl-2-Pentanone	10.103	43	2809	1.556	ug/l #	1
76) 1,2,3-Trichloropropane	12.402	75	116606	42.064	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.402	75	116606	125.285	ug/l #	12

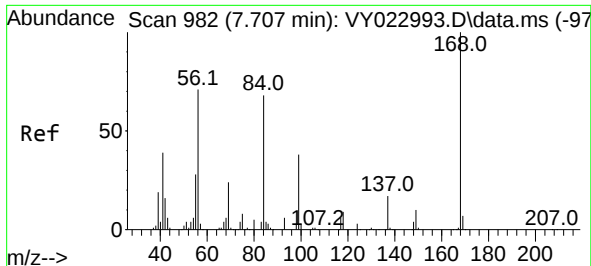
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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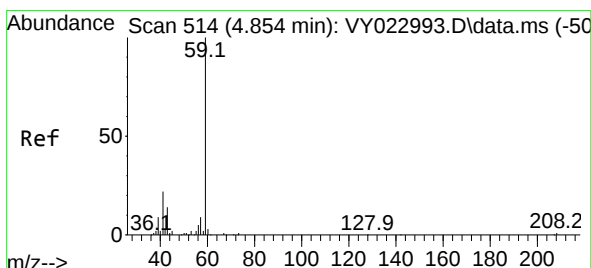
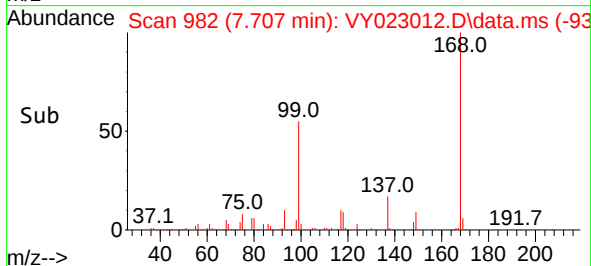
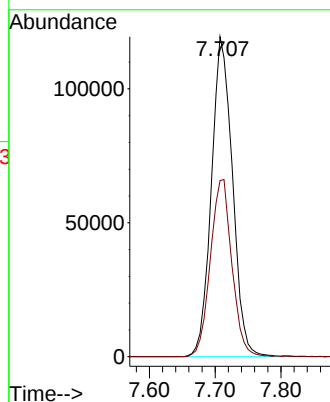
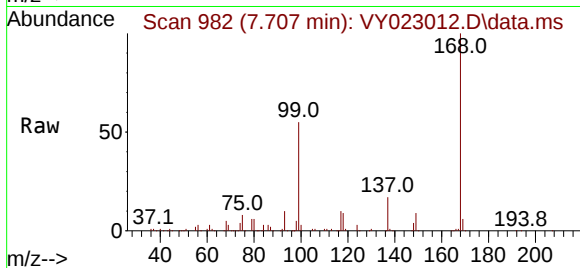




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY023012.D
Acq: 18 Jul 2025 20:49

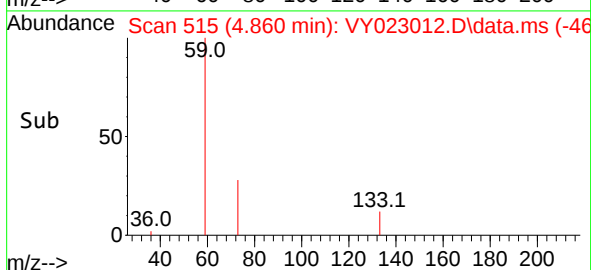
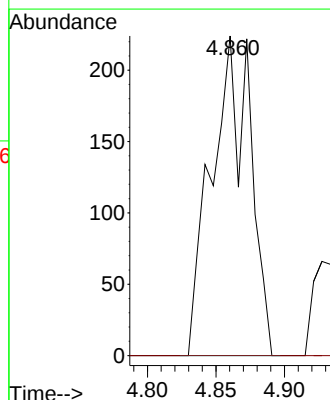
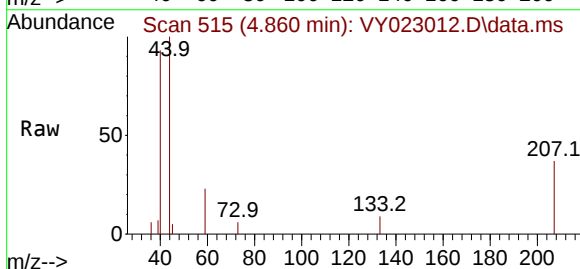
Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-42-071725

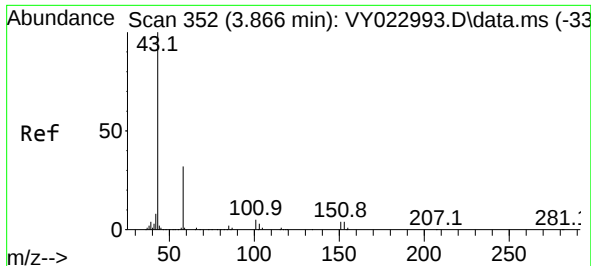
Tgt Ion:168 Resp: 266561
Ion Ratio Lower Upper
168 100
99 55.0 44.4 66.6



#11
Tert butyl alcohol
Concen: 2.690 ug/l
RT: 4.860 min Scan# 515
Delta R.T. 0.006 min
Lab File: VY023012.D
Acq: 18 Jul 2025 20:49

Tgt Ion: 59 Resp: 439
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

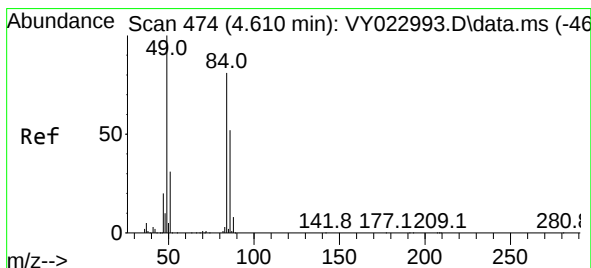
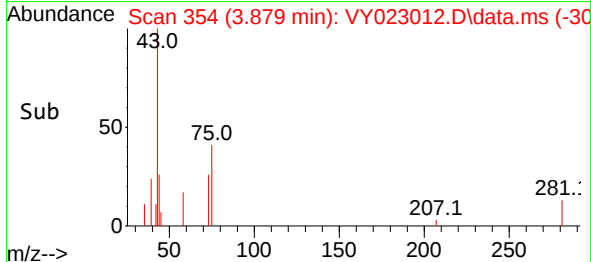
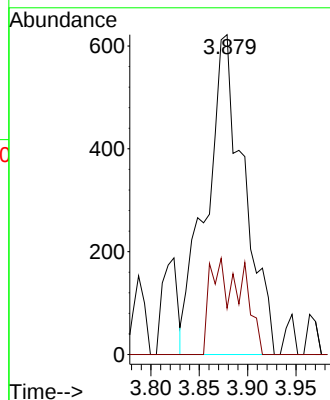
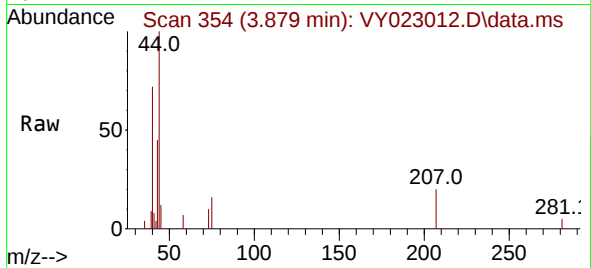




#16
Acetone
Concen: 3.453 ug/l
RT: 3.879 min Scan# 31
Delta R.T. 0.012 min
Lab File: VY023012.D
Acq: 18 Jul 2025 20:49

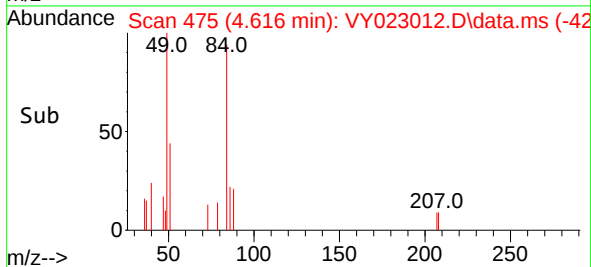
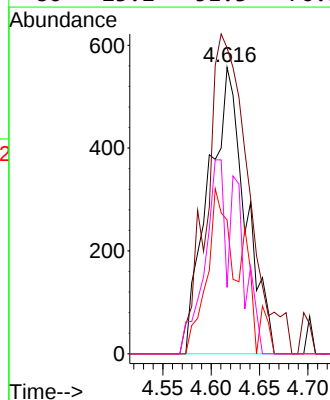
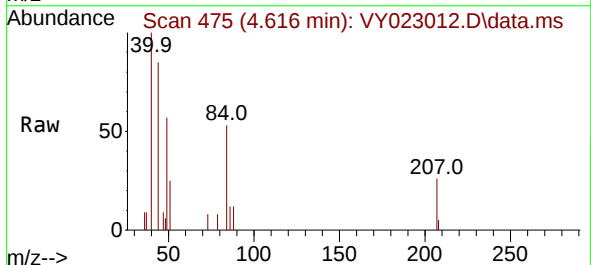
Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-42-071725

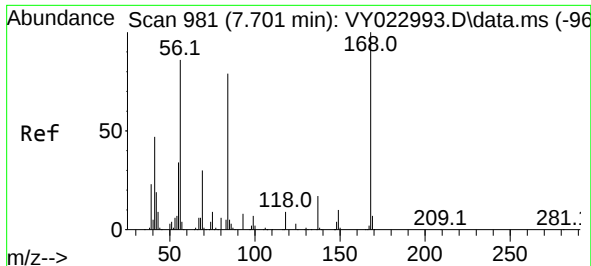
Tgt Ion: 43 Resp: 1689
Ion Ratio Lower Upper
43 100
58 14.5 26.2 39.4#



#20
Methylene Chloride
Concen: Below Cal
RT: 4.616 min Scan# 475
Delta R.T. 0.006 min
Lab File: VY023012.D
Acq: 18 Jul 2025 20:49

Tgt Ion: 84 Resp: 1489
Ion Ratio Lower Upper
84 100
49 106.8 98.2 147.4
51 46.7 30.5 45.7#
86 23.2 51.3 76.9#

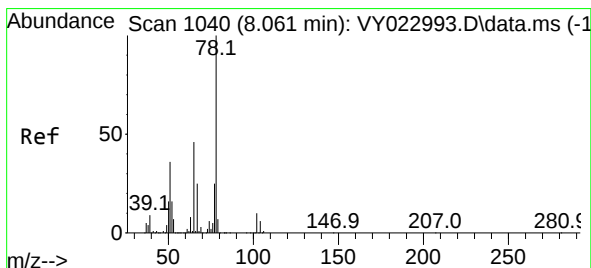
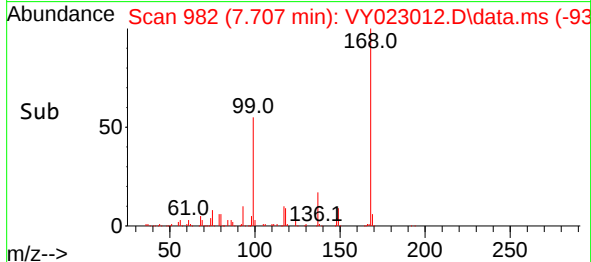
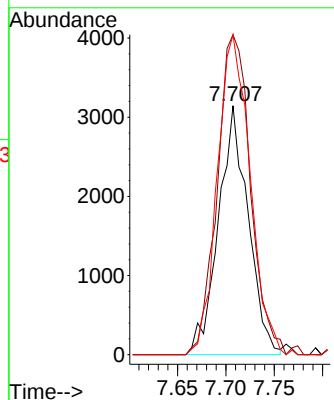
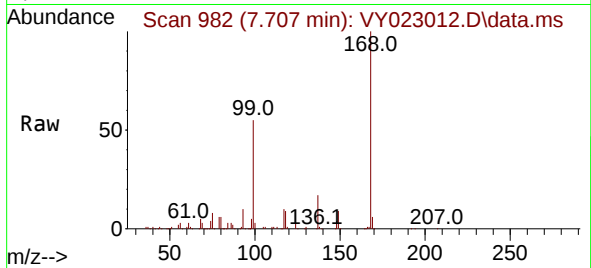




#31
Cyclohexane
Concen: 1.251 ug/l
RT: 7.707 min Scan# 981
Delta R.T. 0.006 min
Lab File: VY023012.D
Acq: 18 Jul 2025 20:49

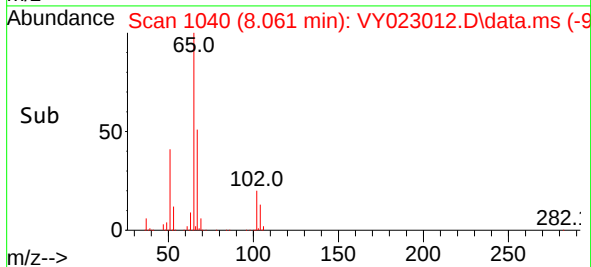
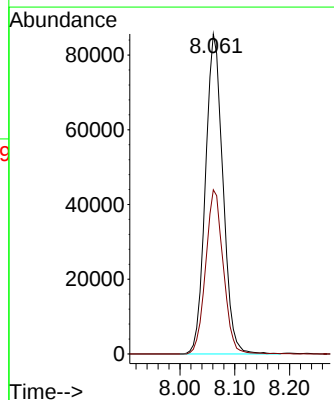
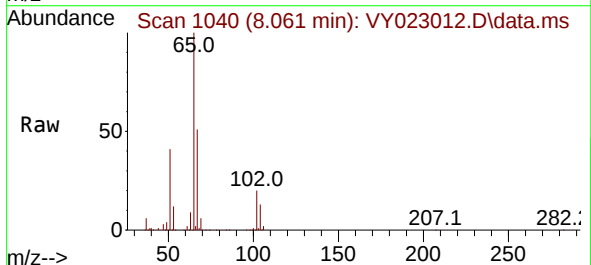
Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-42-071725

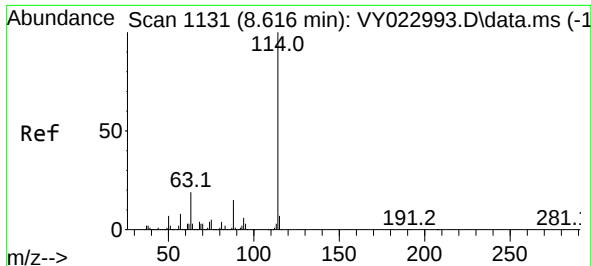
Tgt Ion: 56 Resp: 6721
Ion Ratio Lower Upper
56 100
69 128.6 28.1 42.1#
84 128.5 73.5 110.3#



#33
1,2-Dichloroethane-d4
Concen: 70.030 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY023012.D
Acq: 18 Jul 2025 20:49

Tgt Ion: 65 Resp: 188974
Ion Ratio Lower Upper
65 100
67 51.7 0.0 107.4

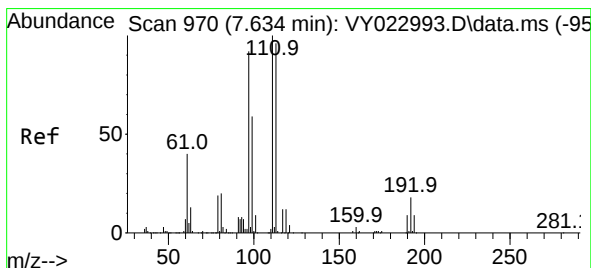
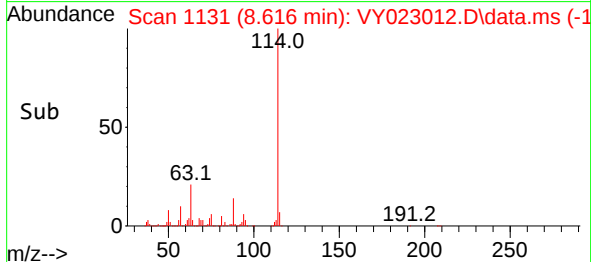
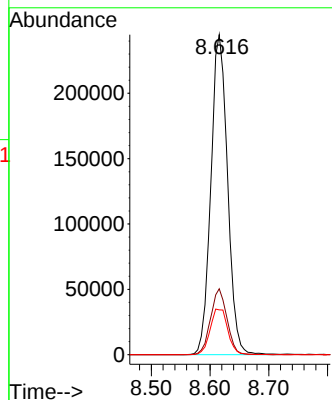
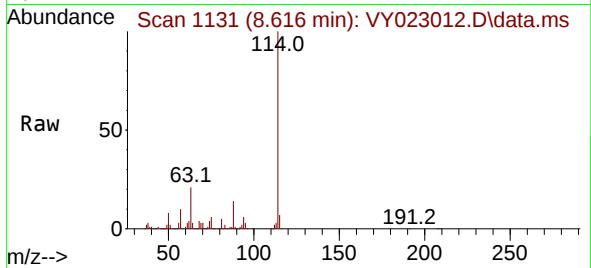




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY023012.D
Acq: 18 Jul 2025 20:49

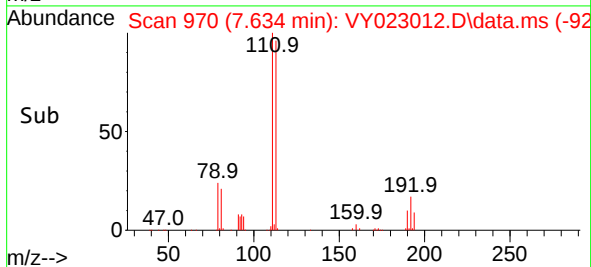
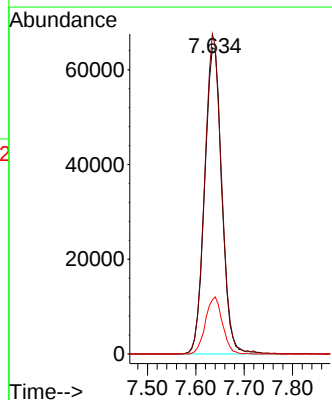
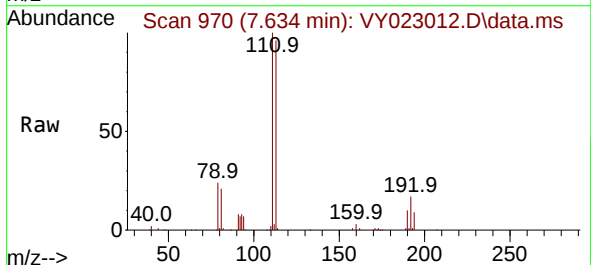
Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-42-071725

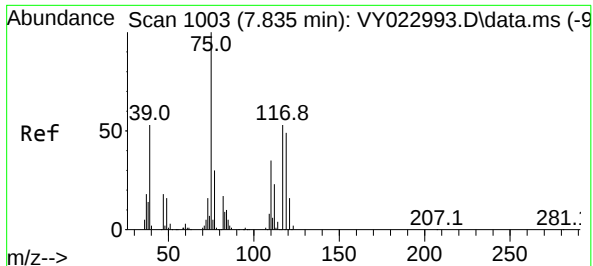
Tgt Ion:114 Resp: 482479
Ion Ratio Lower Upper
114 100
63 20.6 0.0 38.8
88 14.0 0.0 30.2



#35
Dibromofluoromethane
Concen: 52.174 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY023012.D
Acq: 18 Jul 2025 20:49

Tgt Ion:113 Resp: 159680
Ion Ratio Lower Upper
113 100
111 102.6 83.2 124.8
192 18.4 15.3 22.9





#36

1,1-Dichloropropene

Concen: 4.753 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.128 min

Lab File: VY023012.D

Acq: 18 Jul 2025 20:49

Instrument :

MSVOA_Y

ClientSampleId :

OU4-TS-42-071725

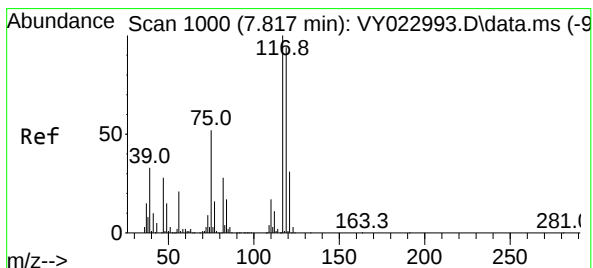
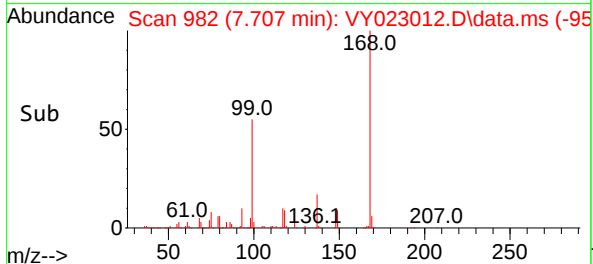
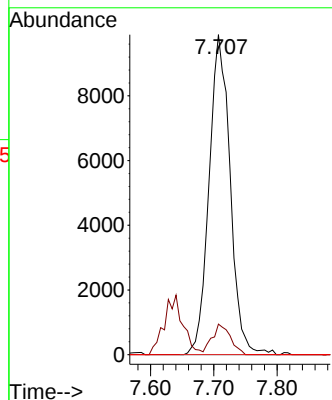
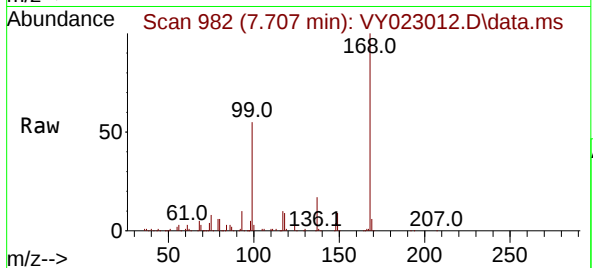
Tgt Ion: 75 Resp: 22913

Ion Ratio Lower Upper

75 100

110 8.2 17.3 51.9#

77 0.0 24.6 37.0#



#38

Carbon Tetrachloride

Concen: 5.198 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.110 min

Lab File: VY023012.D

Acq: 18 Jul 2025 20:49

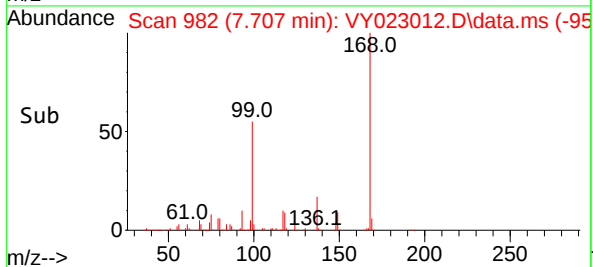
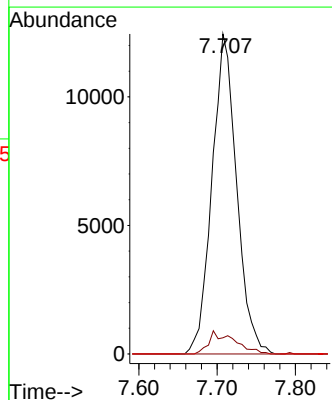
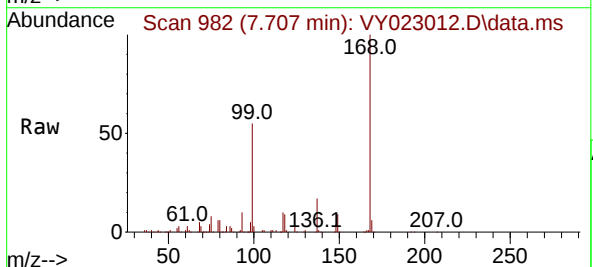
Tgt Ion: 117 Resp: 27224

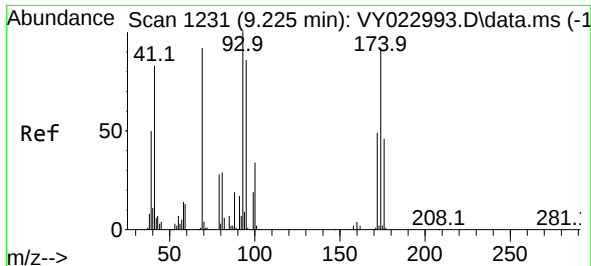
Ion Ratio Lower Upper

117 100

119 5.0 74.9 112.3#

121 0.0 24.6 37.0#





#49

1,4-Dioxane

Concen: 3.195 ug/l

RT: 9.231 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023012.D

Acq: 18 Jul 2025 20:49

Instrument :

MSVOA_Y

ClientSampleId :

OU4-TS-42-071725

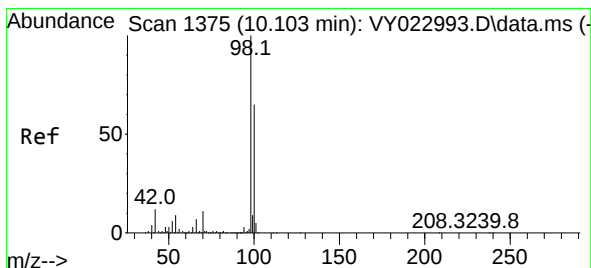
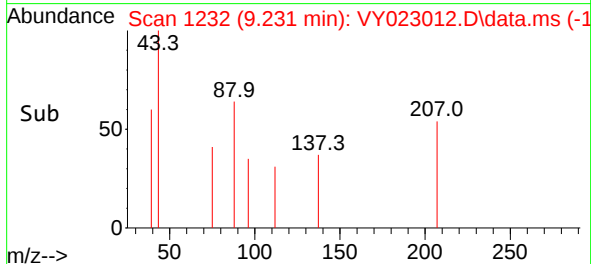
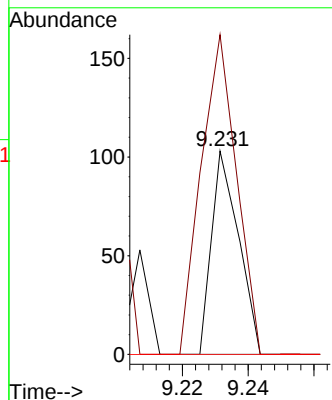
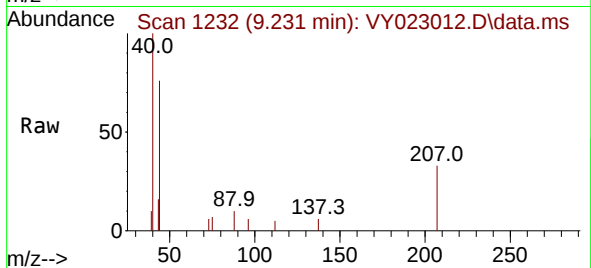
Tgt Ion: 88 Resp: 59

Ion Ratio Lower Upper

88 100

43 205.1 28.7 43.1#

58 0.0 59.8 89.6#



#50

Toluene-d8

Concen: 49.110 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. 0.000 min

Lab File: VY023012.D

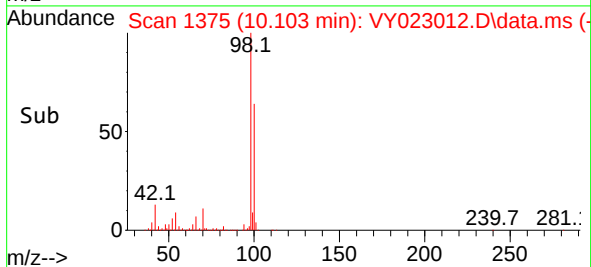
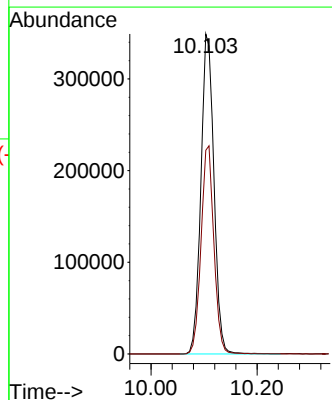
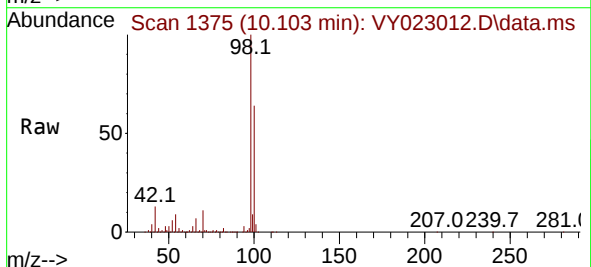
Acq: 18 Jul 2025 20:49

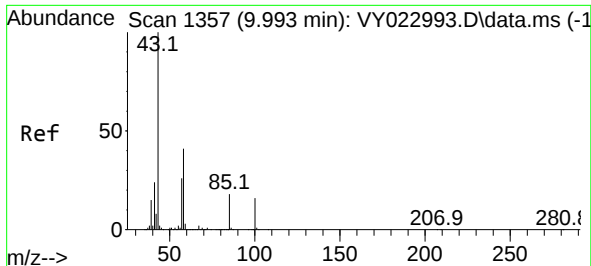
Tgt Ion: 98 Resp: 596042

Ion Ratio Lower Upper

98 100

100 64.2 52.2 78.2





#51

4-Methyl-2-Pentanone

Concen: 1.556 ug/l

RT: 10.103 min Scan# 1357

Delta R.T. 0.110 min

Lab File: VY023012.D

Acq: 18 Jul 2025 20:49

Instrument :

MSVOA_Y

ClientSampleId :

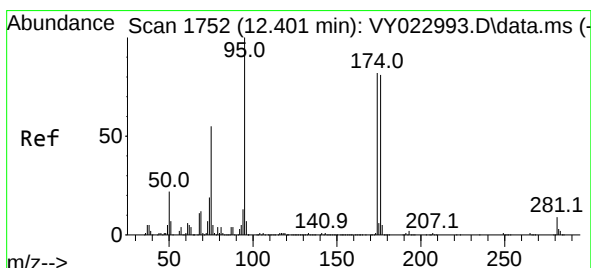
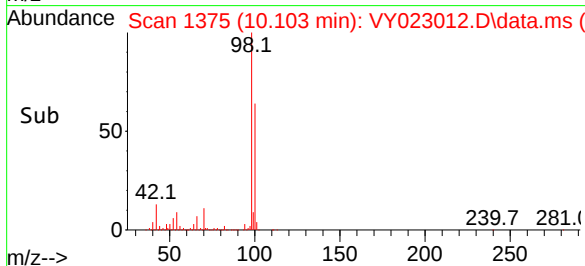
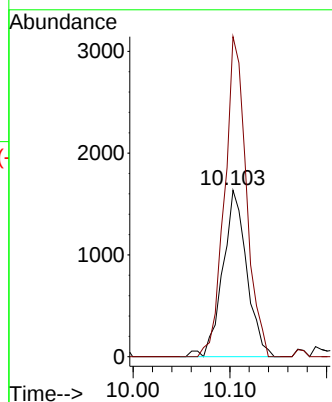
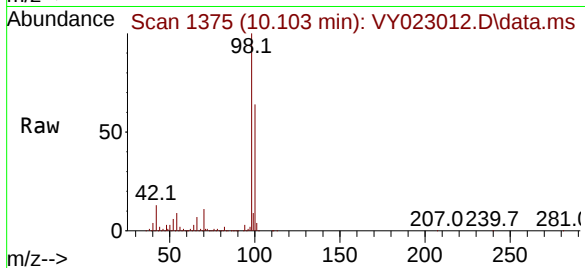
OU4-TS-42-071725

Tgt Ion: 43 Resp: 2809

Ion Ratio Lower Upper

43 100

58 174.6 32.5 48.7#



#62

4-Bromofluorobenzene

Concen: 54.393 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. 0.000 min

Lab File: VY023012.D

Acq: 18 Jul 2025 20:49

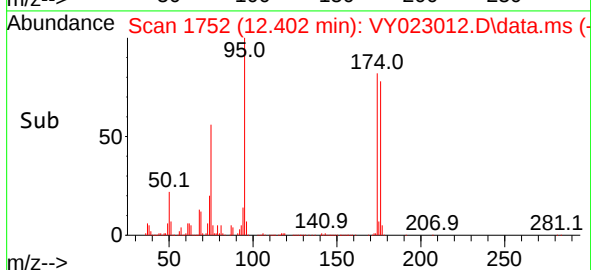
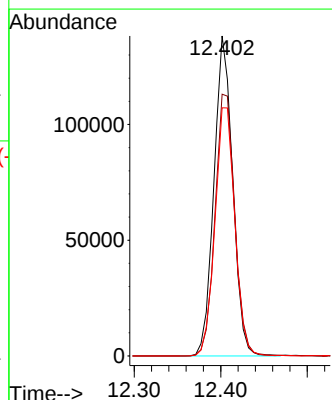
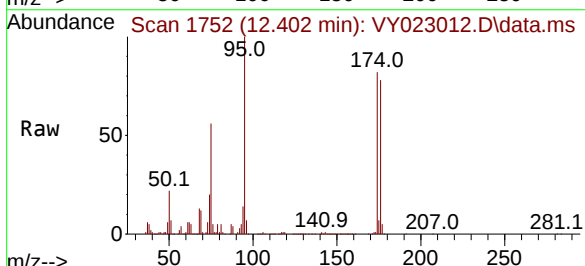
Tgt Ion: 95 Resp: 207811

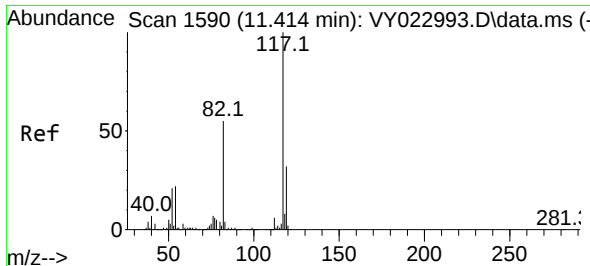
Ion Ratio Lower Upper

95 100

174 86.4 0.0 170.8

176 82.4 0.0 163.6

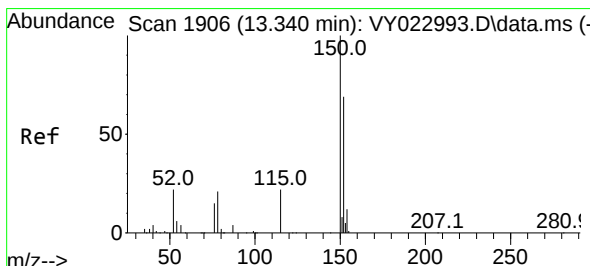
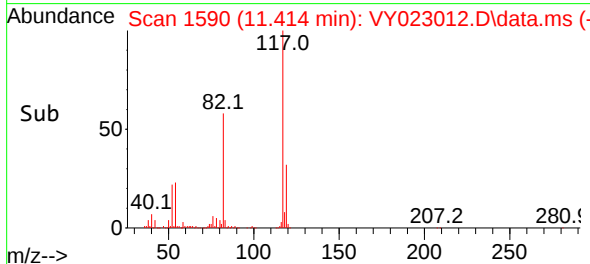
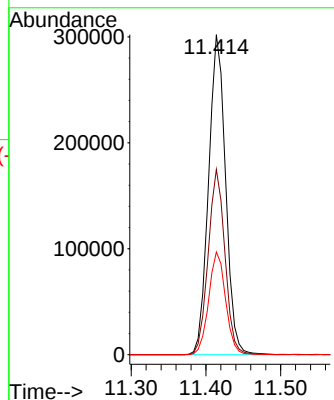
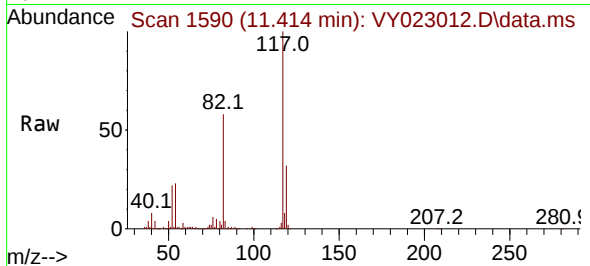




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 117
Delta R.T. 0.000 min
Lab File: VY023012.D
Acq: 18 Jul 2025 20:49

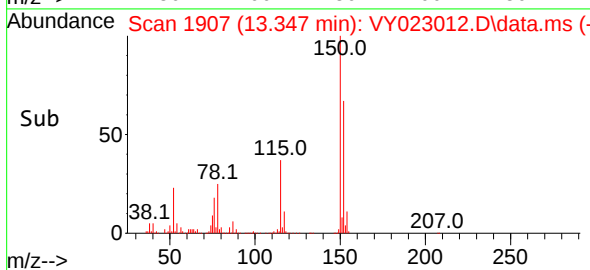
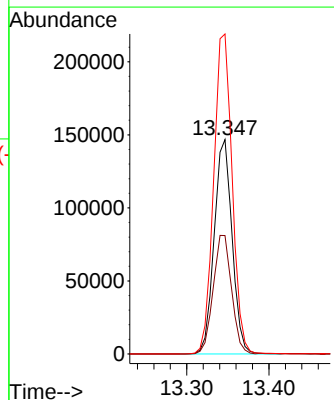
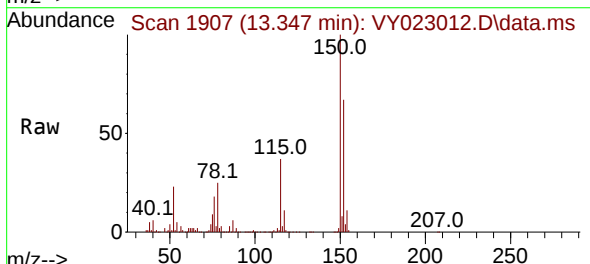
Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-42-071725

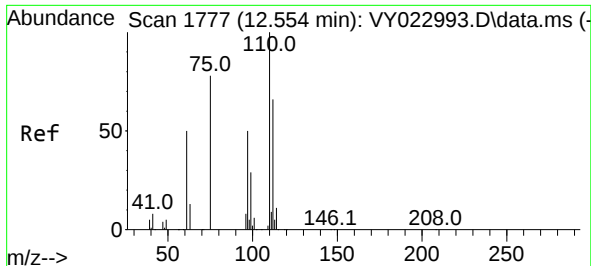
Tgt Ion:117 Resp: 478564
Ion Ratio Lower Upper
117 100
82 57.9 44.3 66.5
119 32.1 25.8 38.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.006 min
Lab File: VY023012.D
Acq: 18 Jul 2025 20:49

Tgt Ion:152 Resp: 222468
Ion Ratio Lower Upper
152 100
115 56.8 29.4 88.2
150 153.8 0.0 350.0

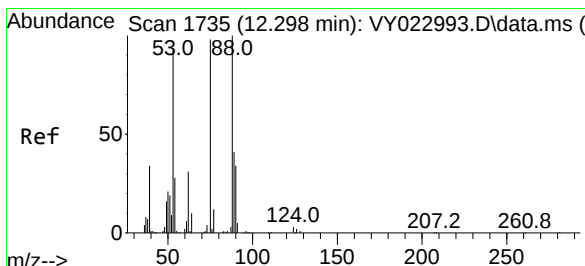
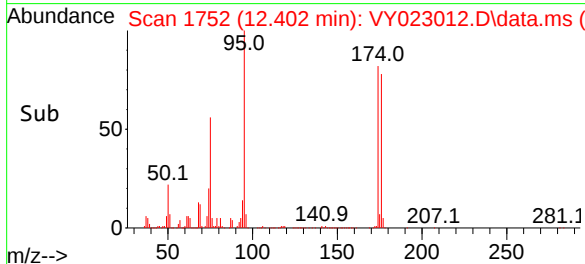
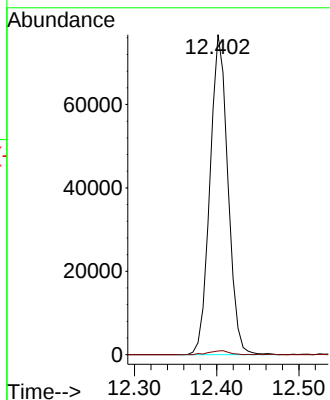
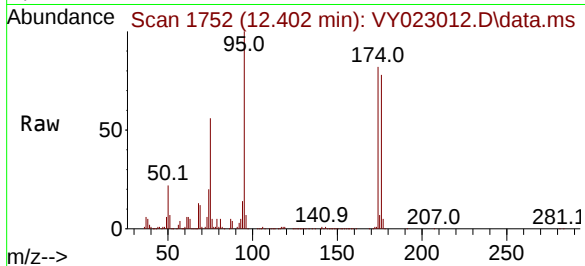




#76
 1,2,3-Trichloropropane
 Concen: 42.064 ug/l
 RT: 12.402 min Scan# 1752
 Delta R.T. -0.152 min
 Lab File: VY023012.D
 Acq: 18 Jul 2025 20:49

Instrument :
 MSVOA_Y
 ClientSampleId :
 OU4-TS-42-071725

Tgt Ion: 75 Resp: 116606
 Ion Ratio Lower Upper
 75 100
 77 1.4 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 125.285 ug/l
 RT: 12.402 min Scan# 1752
 Delta R.T. 0.104 min
 Lab File: VY023012.D
 Acq: 18 Jul 2025 20:49

Tgt Ion: 75 Resp: 116606
 Ion Ratio Lower Upper
 75 100
 53 0.2 76.1 114.1#
 89 0.1 36.1 54.1#

