

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY043025\
 Data File : VY022086.D
 Acq On : 30 Apr 2025 16:42
 Operator : SY/MD
 Sample : Q1883-11
 Misc : 14.43g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 OU4-PCS-TC-32-042325

Quant Time: May 08 12:21:17 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:30:30 2025
 Response via : Initial Calibration

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

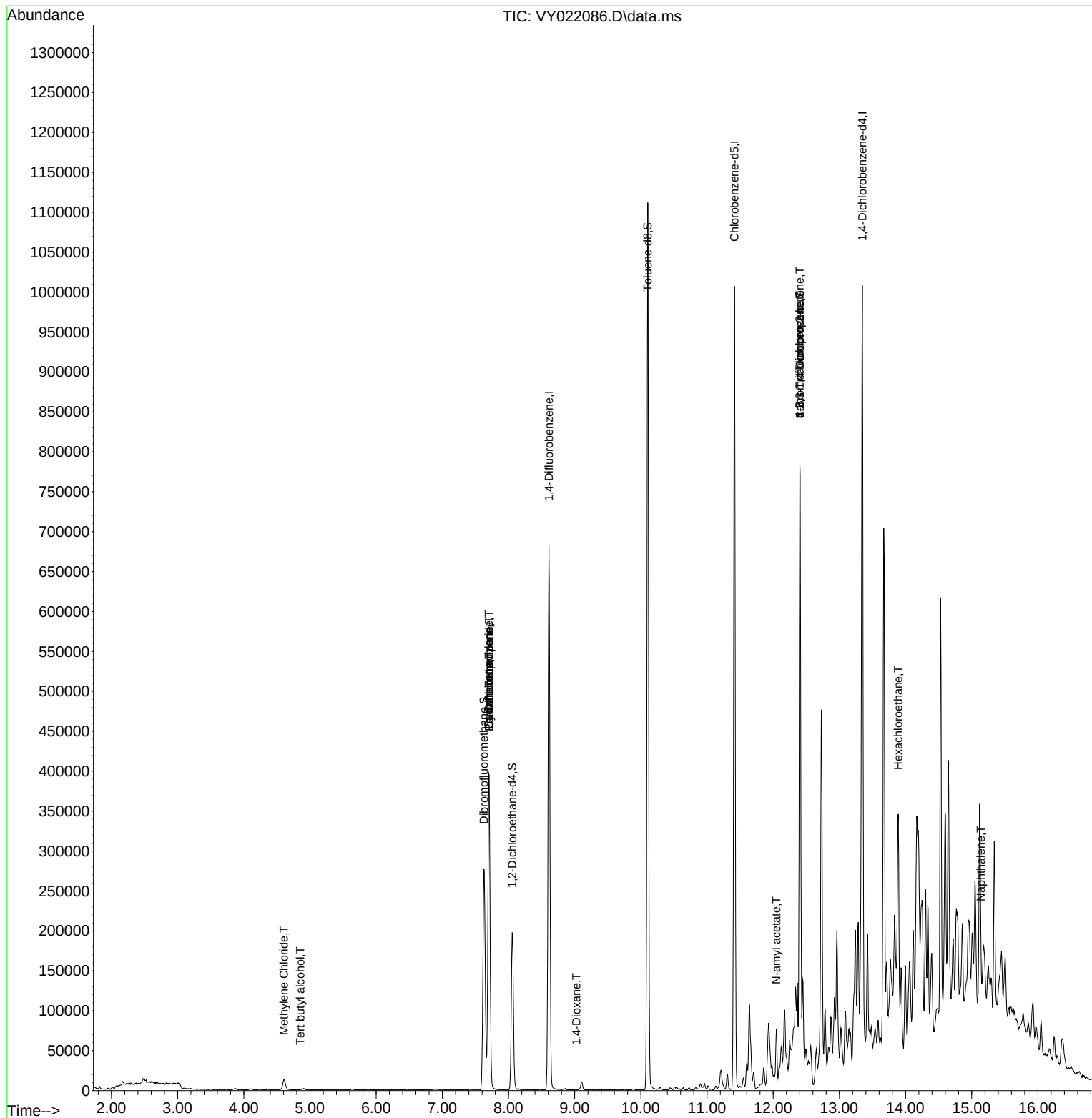
Internal Standards						
1) Pentafluorobenzene	7.707	168	314687	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	598350	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	545344	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	231898	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	156877	53.971	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 107.940%			
35) Dibromofluoromethane	7.628	113	201431	50.956	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.920%			
50) Toluene-d8	10.103	98	719534	48.282	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 96.560%			
62) 4-Bromofluorobenzene	12.401	95	235187	46.879	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 93.760%			
Target Compounds						Qvalue
11) Tert butyl alcohol	4.854	59	336	2.106	ug/l #	70
16) Acetone	3.866	43	2528	Below Cal		95
20) Methylene Chloride	4.604	84	9960	2.710	ug/l	93
31) Cyclohexane	7.701	56	6203	1.291	ug/l #	19
36) 1,1-Dichloropropene	7.707	75	22392	4.217	ug/l #	49
38) Carbon Tetrachloride	7.701	117	31004	4.886	ug/l #	17
49) 1,4-Dioxane	9.024	88	45	1.837	ug/l #	21
74) N-amyl acetate	12.048	43	10508	3.948	ug/l #	70
76) 1,2,3-Trichloropropane	12.401	75	114514	57.651	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.401	75	114514	138.833	ug/l #	16
90) Hexachloroethane	13.889	117	3903	1.249	ug/l #	11
95) Naphthalene	15.139	128	24453	3.746	ug/l #	89

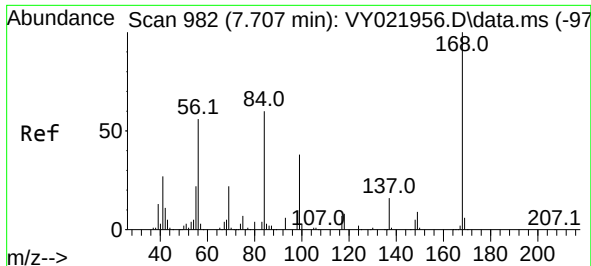
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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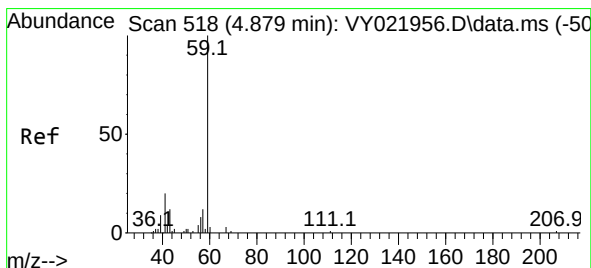
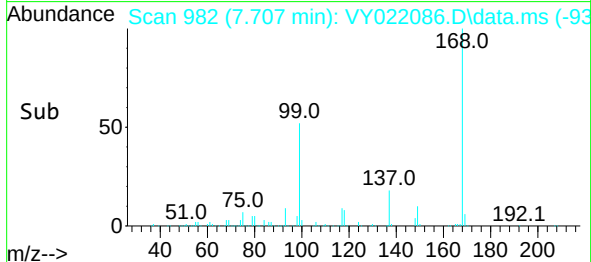
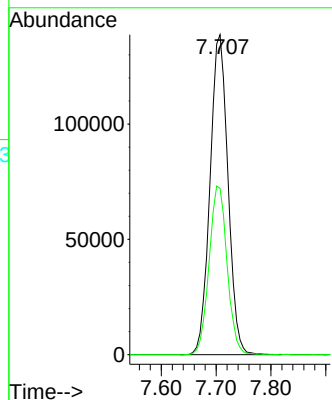
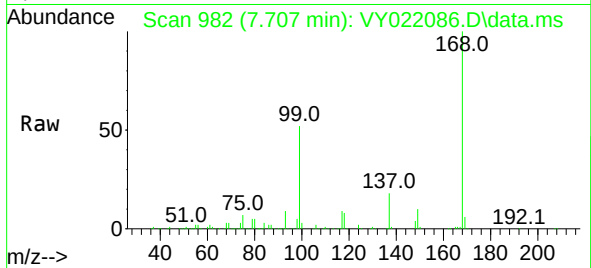




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY022086.D
Acq: 30 Apr 2025 16:42

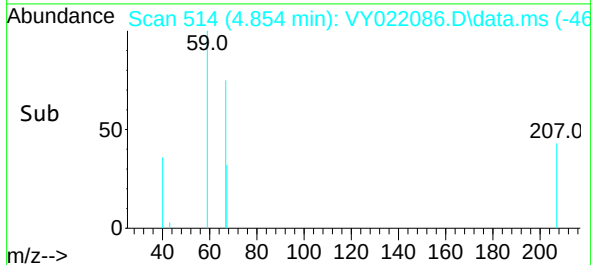
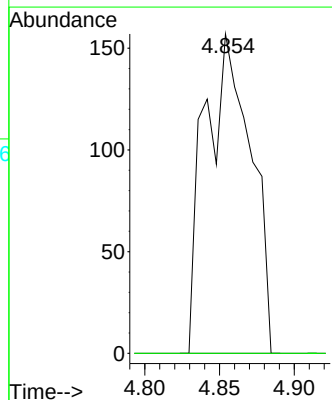
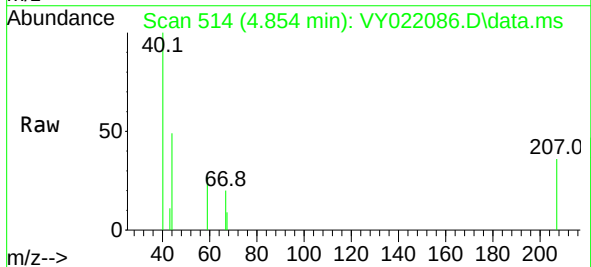
Instrument :
MSVOA_Y
ClientSampleId :
OU4-PCS-TC-32-042325

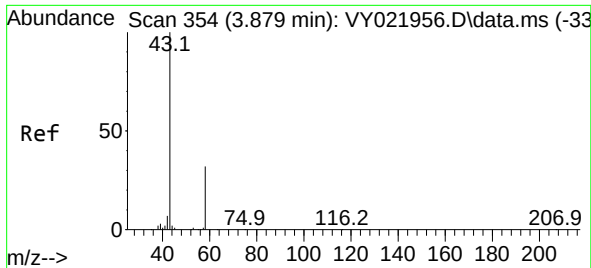
Tgt Ion:168 Resp: 314687
Ion Ratio Lower Upper
168 100
99 52.0 43.1 64.7



#11
Tert butyl alcohol
Concen: 2.106 ug/l
RT: 4.854 min Scan# 514
Delta R.T. -0.025 min
Lab File: VY022086.D
Acq: 30 Apr 2025 16:42

Tgt Ion: 59 Resp: 336
Ion Ratio Lower Upper
59 100
57 0.0 9.3 13.9#

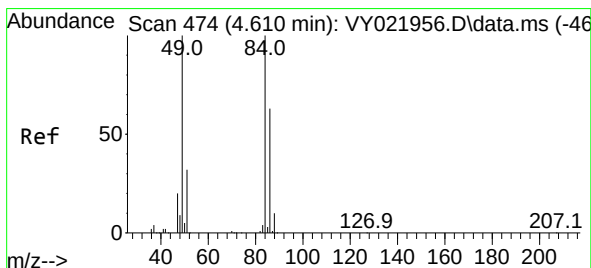
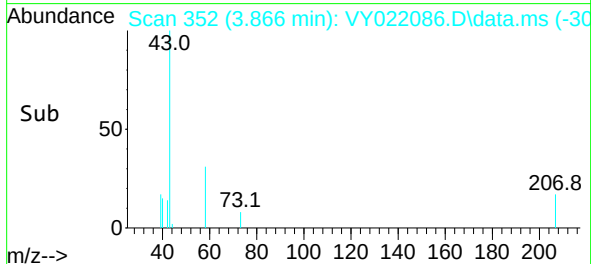
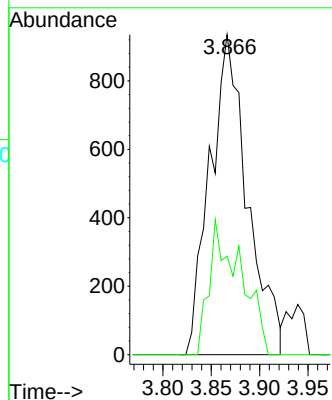
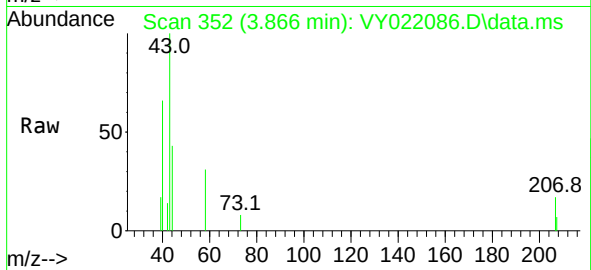




#16
Acetone
Concen: Below Cal
RT: 3.866 min Scan# 31
Delta R.T. -0.013 min
Lab File: VY022086.D
Acq: 30 Apr 2025 16:42

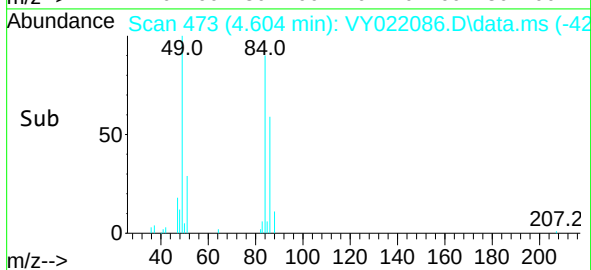
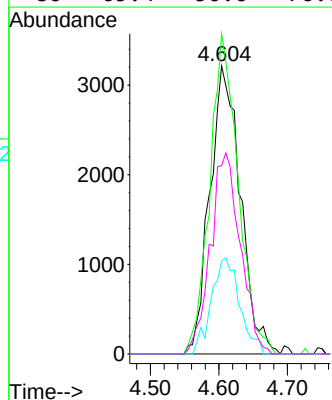
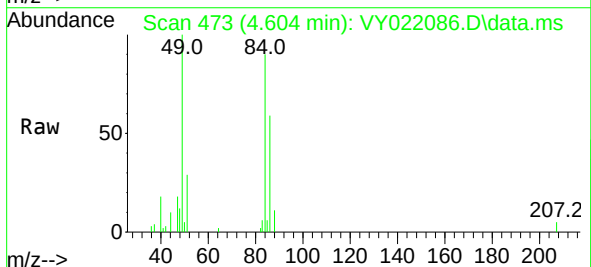
Instrument :
MSVOA_Y
ClientSampleId :
OU4-PCS-TC-32-042325

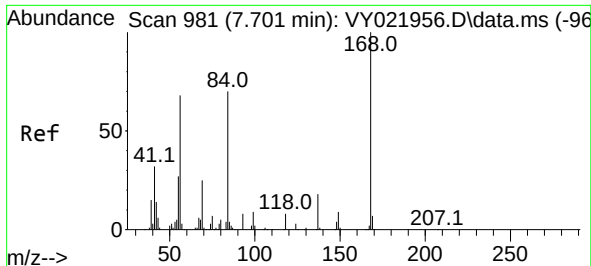
Tgt Ion: 43 Resp: 2528
Ion Ratio Lower Upper
43 100
58 30.8 27.0 40.4



#20
Methylene Chloride
Concen: 2.710 ug/l
RT: 4.604 min Scan# 473
Delta R.T. -0.006 min
Lab File: VY022086.D
Acq: 30 Apr 2025 16:42

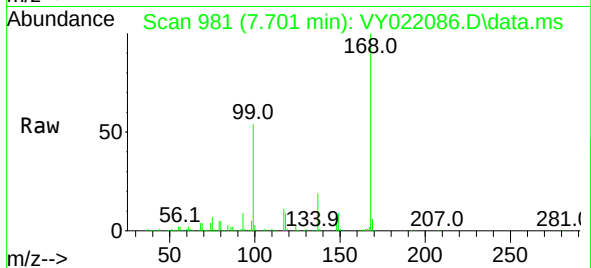
Tgt Ion: 84 Resp: 9960
Ion Ratio Lower Upper
84 100
49 111.1 79.9 119.9
51 32.3 25.4 38.0
86 65.4 50.6 76.0



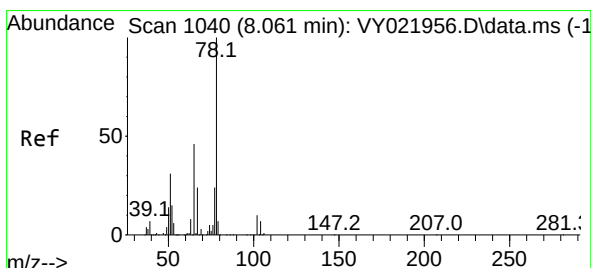
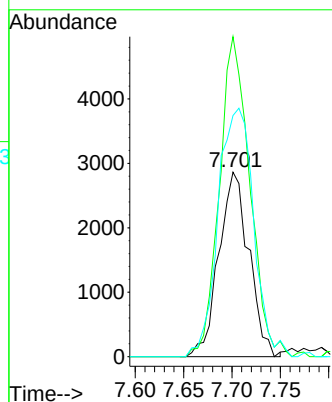
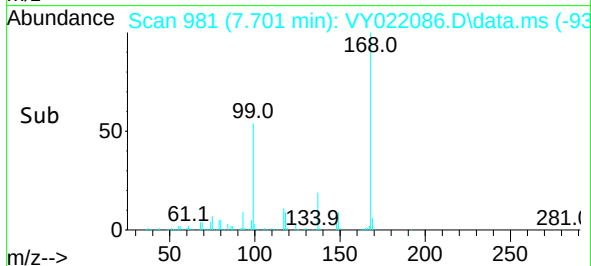


#31
Cyclohexane
Concen: 1.291 ug/l
RT: 7.701 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY022086.D
Acq: 30 Apr 2025 16:42

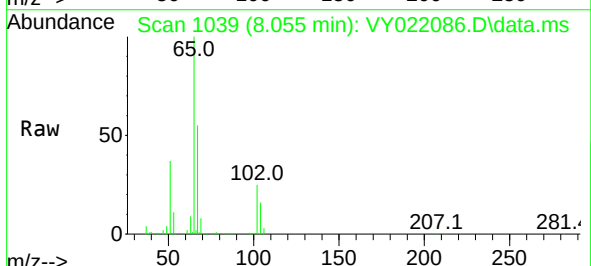
Instrument :
MSVOA_Y
ClientSampleId :
OU4-PCS-TC-32-042325



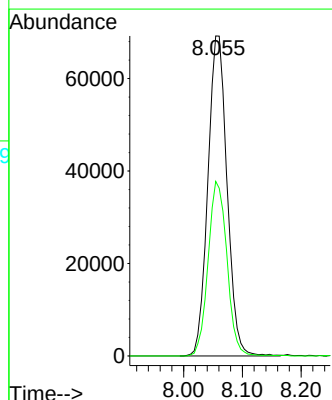
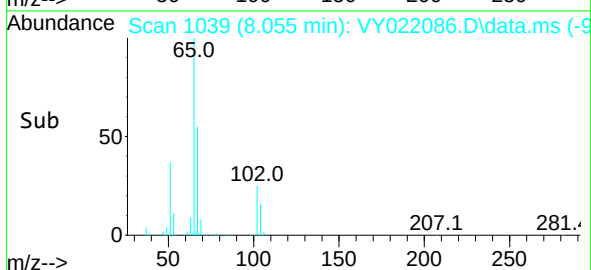
Tgt Ion: 56 Resp: 6203
Ion Ratio Lower Upper
56 100
69 173.4 29.4 44.2#
84 130.7 82.2 123.4#

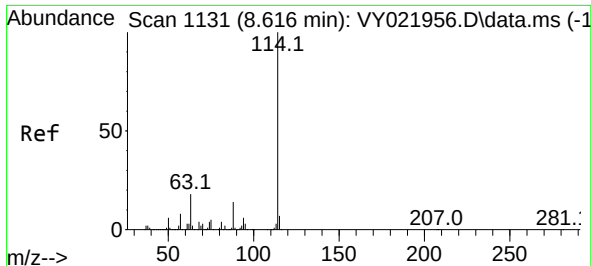


#33
1,2-Dichloroethane-d4
Concen: 53.971 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. -0.006 min
Lab File: VY022086.D
Acq: 30 Apr 2025 16:42



Tgt Ion: 65 Resp: 156877
Ion Ratio Lower Upper
65 100
67 53.5 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.609 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VY022086.D

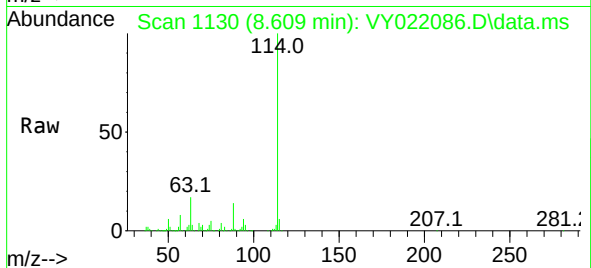
Acq: 30 Apr 2025 16:42

Instrument :

MSVOA_Y

ClientSampleId :

OU4-PCS-TC-32-042325



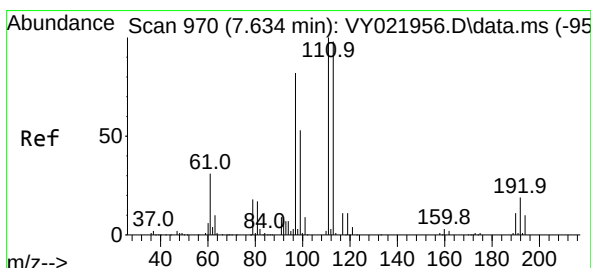
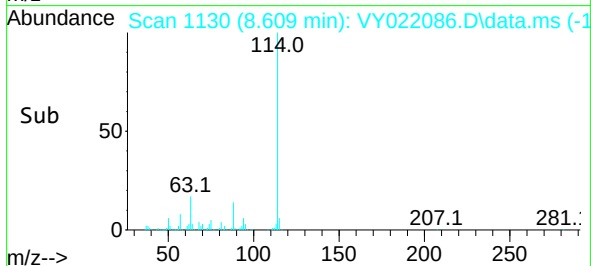
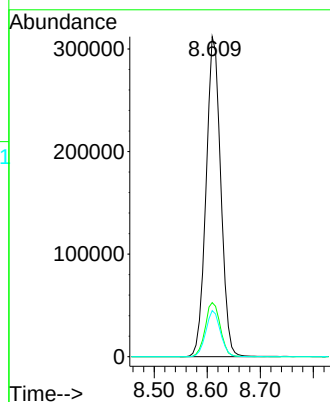
Tgt Ion:114 Resp: 598350

Ion Ratio Lower Upper

114 100

63 16.9 0.0 35.4

88 14.4 0.0 28.2



#35

Dibromofluoromethane

Concen: 50.956 ug/l

RT: 7.628 min Scan# 969

Delta R.T. -0.006 min

Lab File: VY022086.D

Acq: 30 Apr 2025 16:42

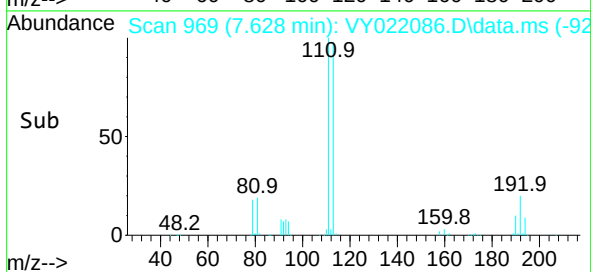
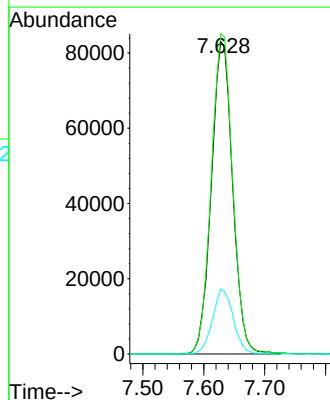
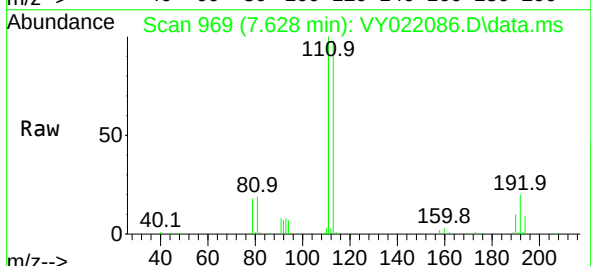
Tgt Ion:113 Resp: 201431

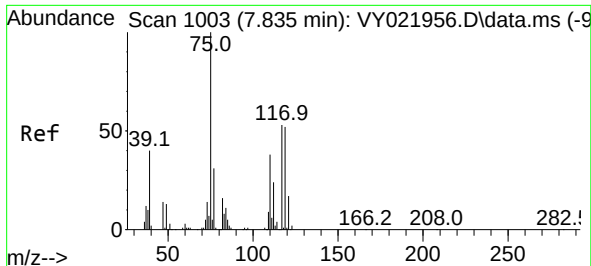
Ion Ratio Lower Upper

113 100

111 103.1 81.8 122.8

192 20.2 15.6 23.4





#36

1,1-Dichloropropene

Concen: 4.217 ug/l

RT: 7.707 min Scan# 91

Delta R.T. -0.128 min

Lab File: VY022086.D

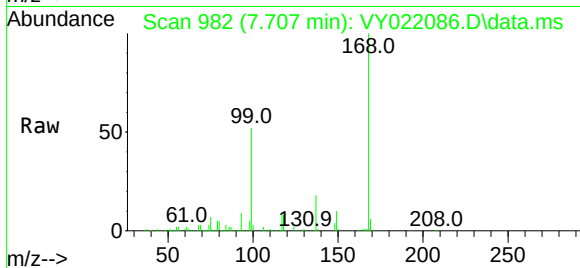
Acq: 30 Apr 2025 16:42

Instrument :

MSVOA_Y

ClientSampleId :

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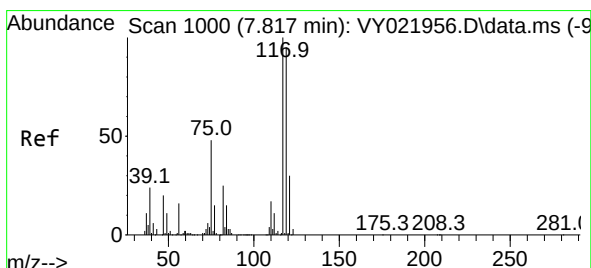
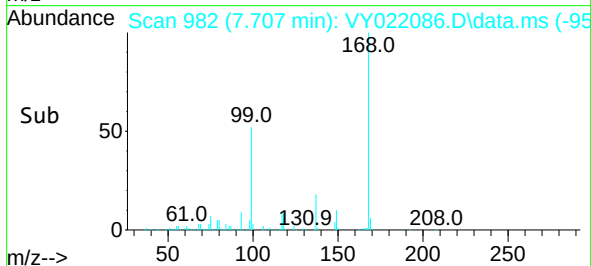
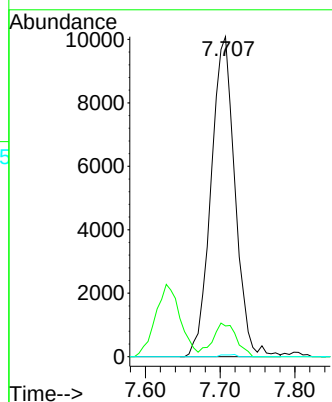
Tgt Ion: 75 Resp: 22392

Ion Ratio Lower Upper

75 100

110 10.4 19.1 57.3#

77 0.4 25.5 38.3#



#38

Carbon Tetrachloride

Concen: 4.886 ug/l

RT: 7.701 min Scan# 981

Delta R.T. -0.116 min

Lab File: VY022086.D

Acq: 30 Apr 2025 16:42

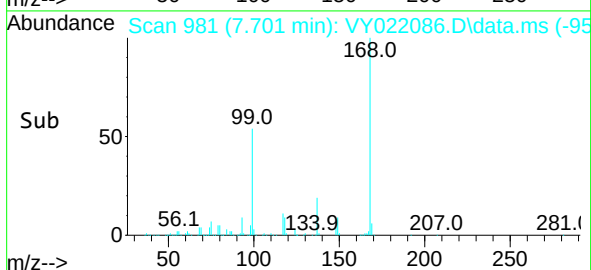
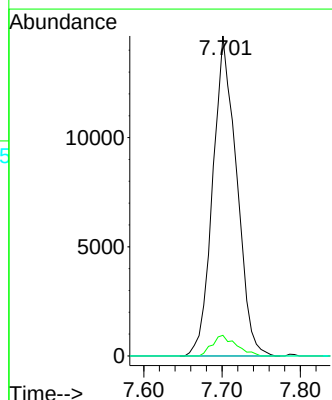
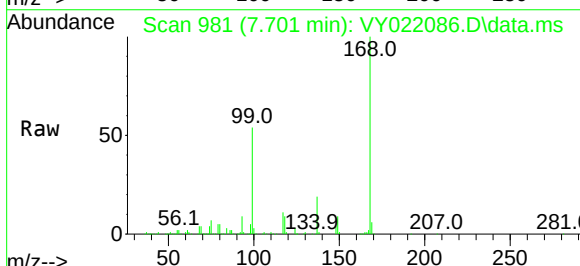
Tgt Ion: 117 Resp: 31004

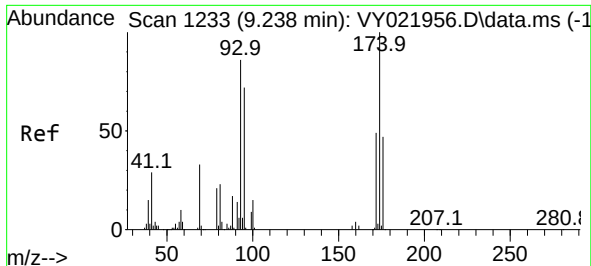
Ion Ratio Lower Upper

117 100

119 6.4 76.2 114.4#

121 0.0 24.0 36.0#





#49

1,4-Dioxane

Concen: 1.837 ug/l

RT: 9.024 min Scan# 1198

Delta R.T. -0.214 min

Lab File: VY022086.D

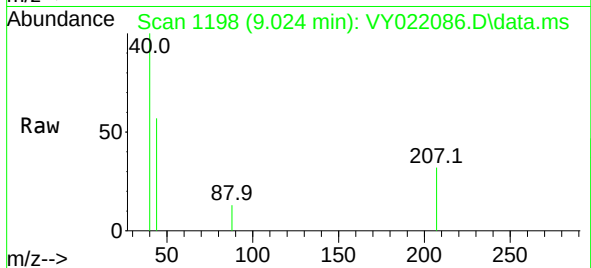
Acq: 30 Apr 2025 16:42

Instrument :

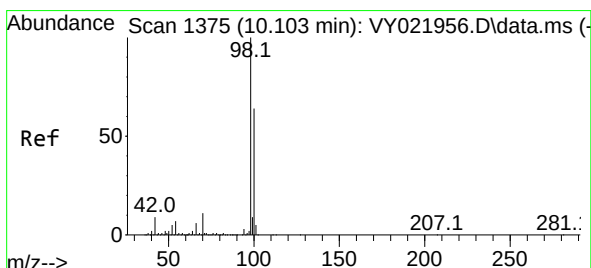
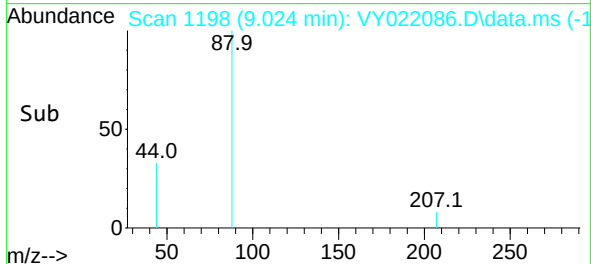
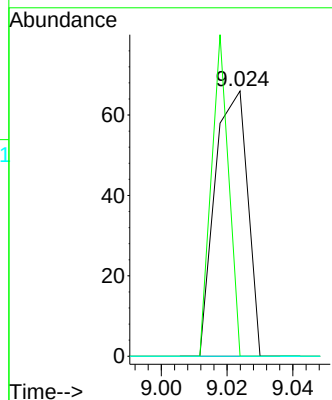
MSVOA_Y

ClientSampleId :

OU4-PCS-TC-32-042325



Tgt Ion:	88	Resp:	45
Ion	Ratio	Lower	Upper
88	100		
43	64.4	21.3	31.9#
58	0.0	50.5	75.7#



#50

Toluene-d8

Concen: 48.282 ug/l

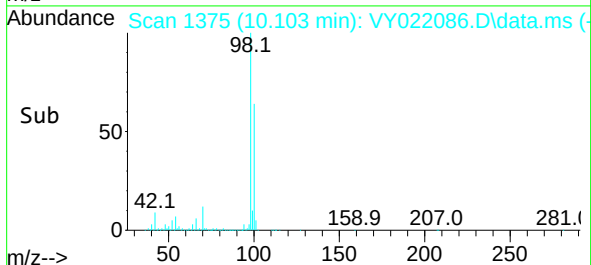
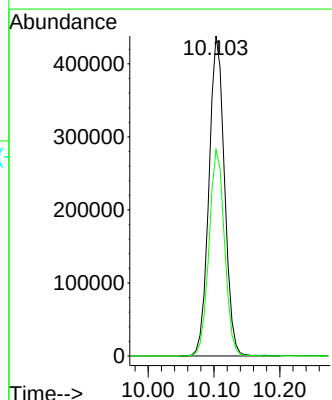
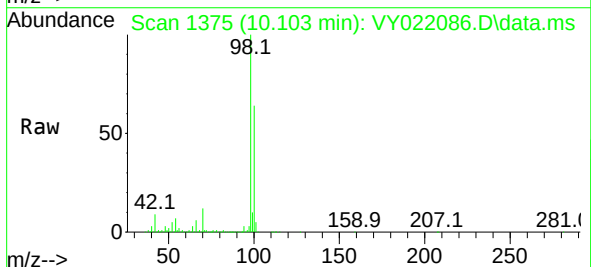
RT: 10.103 min Scan# 1375

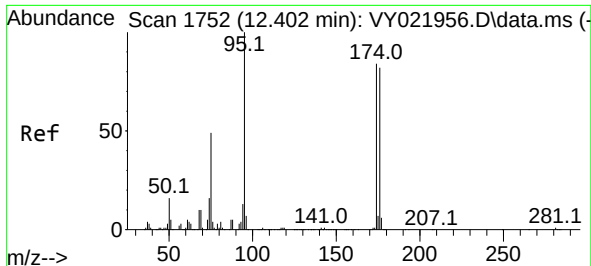
Delta R.T. -0.000 min

Lab File: VY022086.D

Acq: 30 Apr 2025 16:42

Tgt Ion:	98	Resp:	719534
Ion	Ratio	Lower	Upper
98	100		
100	64.4	51.6	77.4

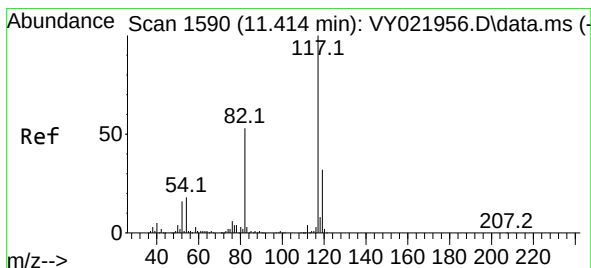
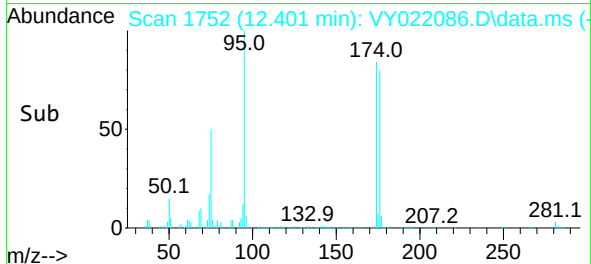
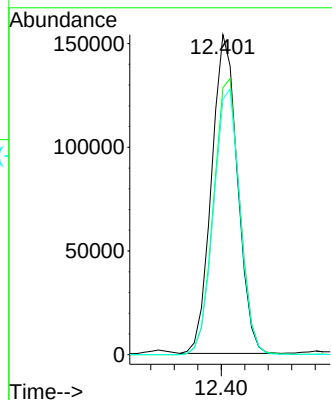
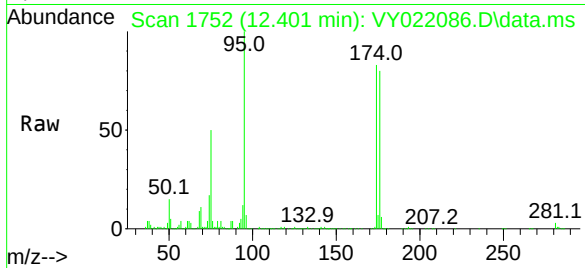




#62
4-Bromofluorobenzene
Concen: 46.879 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY022086.D
Acq: 30 Apr 2025 16:42

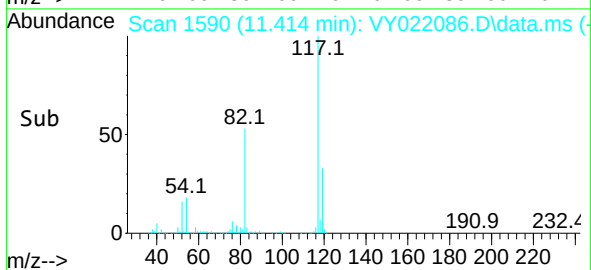
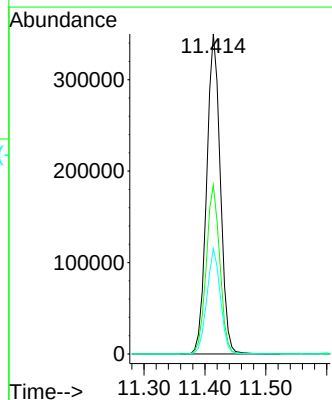
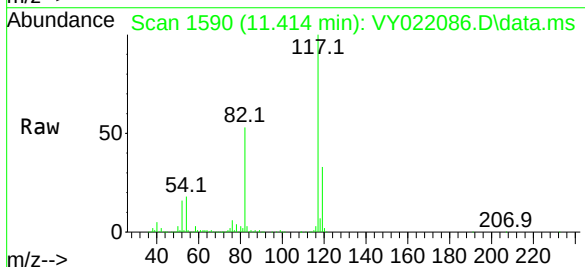
Instrument :
MSVOA_Y
ClientSampleId :
OU4-PCS-TC-32-042325

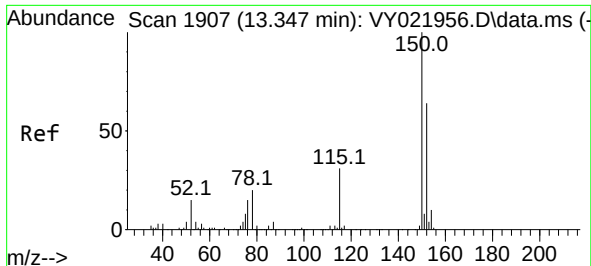
Tgt Ion: 95 Resp: 235187
Ion Ratio Lower Upper
95 100
174 88.2 0.0 179.0
176 85.1 0.0 171.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. -0.000 min
Lab File: VY022086.D
Acq: 30 Apr 2025 16:42

Tgt Ion: 117 Resp: 545344
Ion Ratio Lower Upper
117 100
82 52.7 42.1 63.1
119 32.9 25.7 38.5

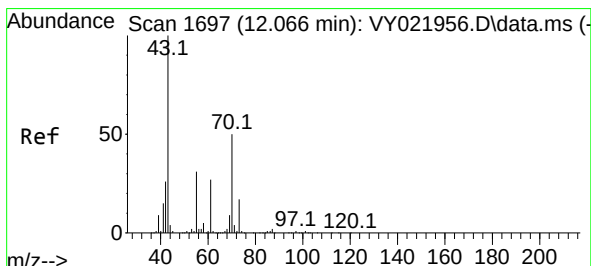
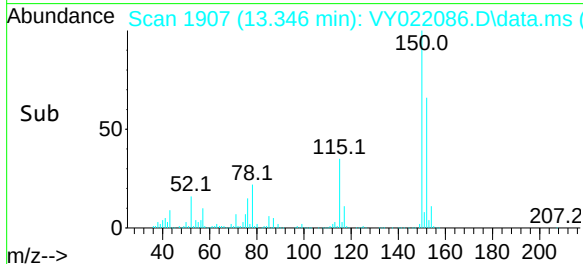
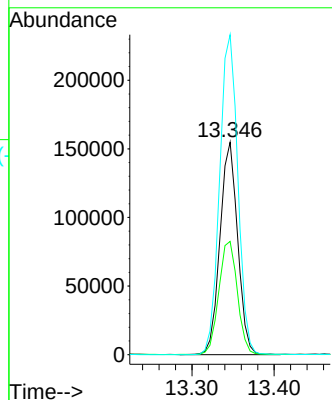
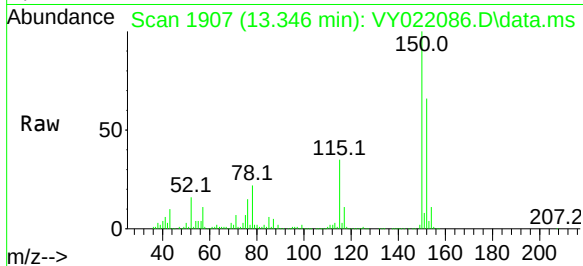




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY022086.D
Acq: 30 Apr 2025 16:42

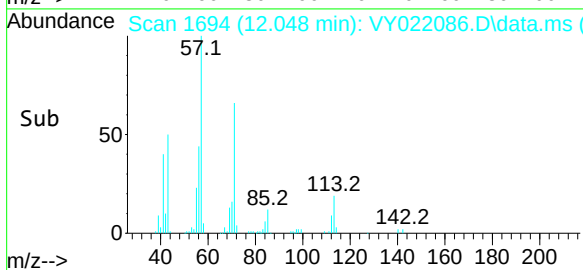
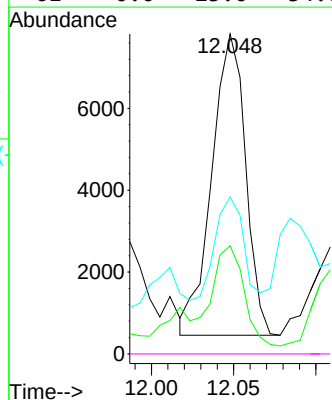
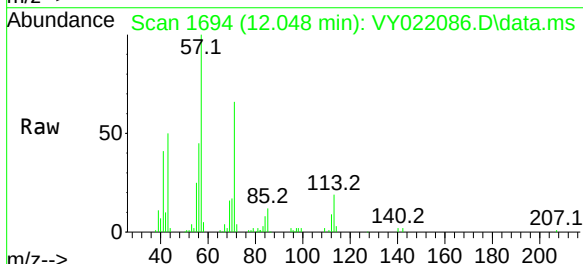
Instrument :
MSVOA_Y
ClientSampleId :
OU4-PCS-TC-32-042325

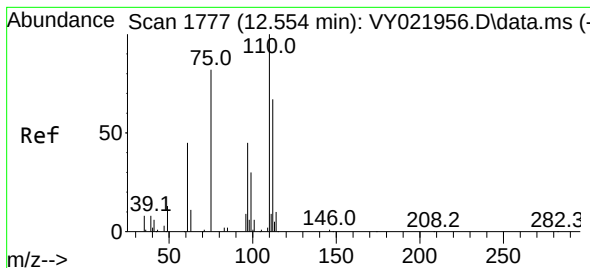
Tgt Ion:152 Resp: 231898
Ion Ratio Lower Upper
152 100
115 55.8 28.0 84.0
150 154.8 0.0 345.6



#74
N-ethyl acetate
Concen: 3.948 ug/l
RT: 12.048 min Scan# 1694
Delta R.T. -0.019 min
Lab File: VY022086.D
Acq: 30 Apr 2025 16:42

Tgt Ion: 43 Resp: 10508
Ion Ratio Lower Upper
43 100
70 31.9 43.2 64.8#
55 28.5 25.7 38.5
61 0.0 23.0 34.6#





#76

1,2,3-Trichloropropane

Concen: 57.651 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. -0.153 min

Lab File: VY022086.D

Acq: 30 Apr 2025 16:42

Instrument :

MSVOA_Y

ClientSampleId :

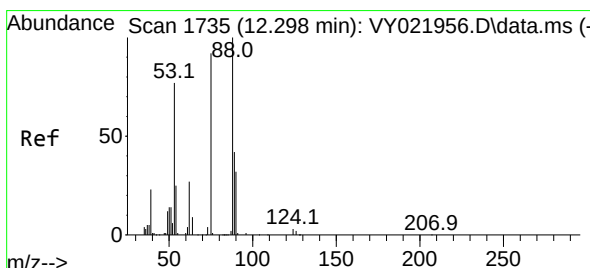
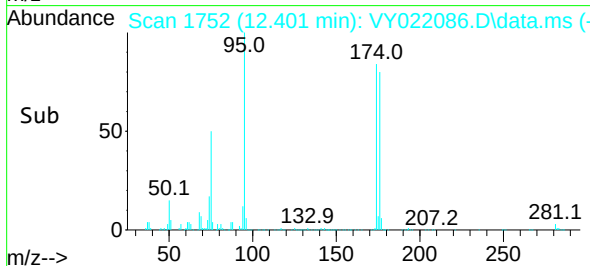
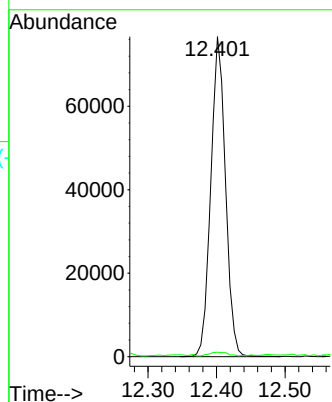
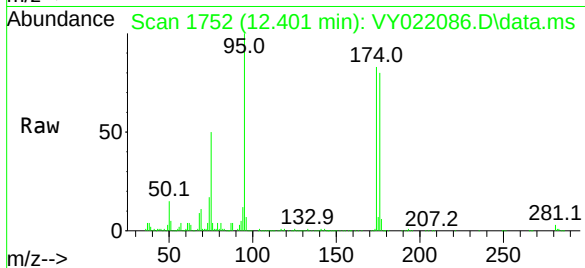
OU4-PCS-TC-32-042325

Tgt Ion: 75 Resp: 114514

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 138.833 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. 0.103 min

Lab File: VY022086.D

Acq: 30 Apr 2025 16:42

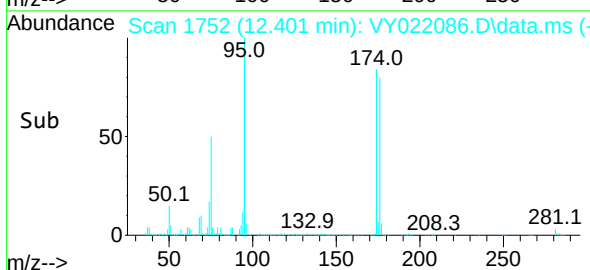
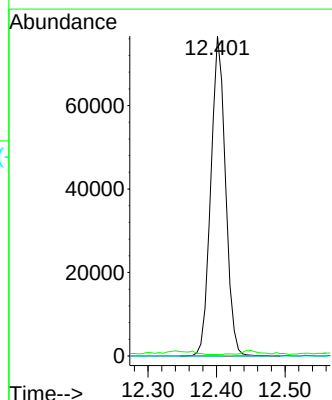
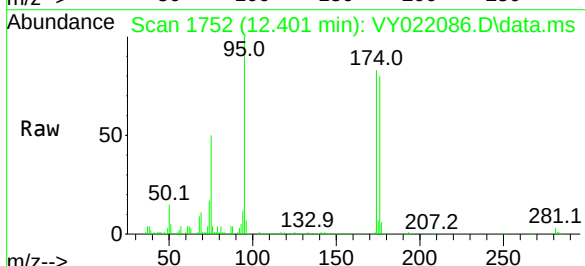
Tgt Ion: 75 Resp: 114514

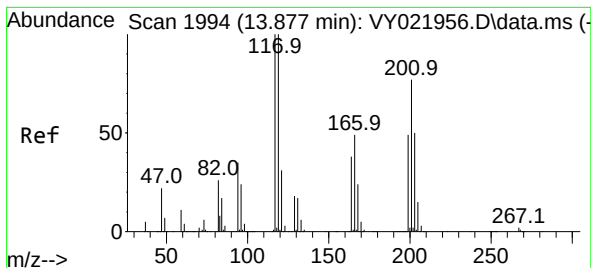
Ion Ratio Lower Upper

75 100

53 0.0 66.0 99.0#

89 0.1 37.2 55.8#





#90

Hexachloroethane

Concen: 1.249 ug/l

RT: 13.889 min Scan# 1994

Delta R.T. 0.012 min

Lab File: VY022086.D

Acq: 30 Apr 2025 16:42

Instrument :

MSVOA_Y

ClientSampleId :

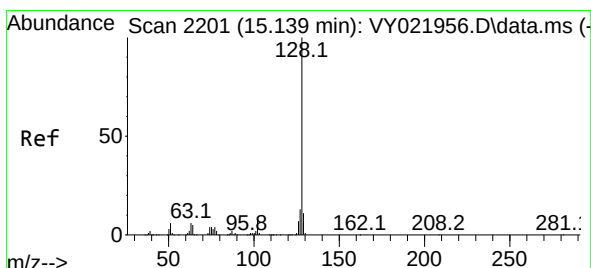
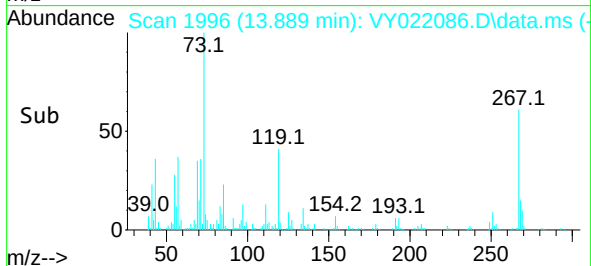
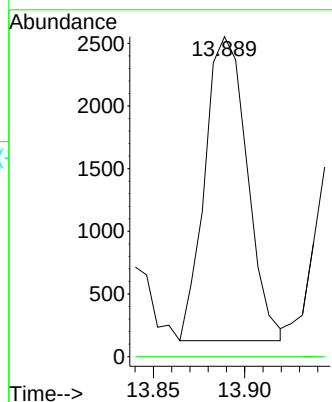
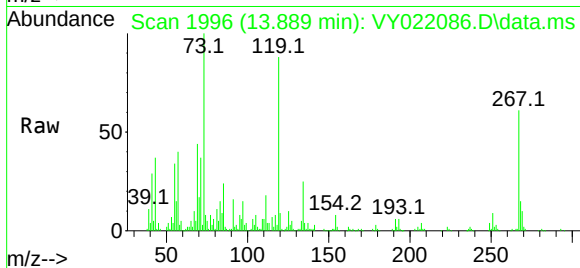
OU4-PCS-TC-32-042325

Tgt Ion:117 Resp: 3903

Ion Ratio Lower Upper

117 100

201 0.0 38.7 116.1#



#95

Naphthalene

Concen: 3.746 ug/l

RT: 15.139 min Scan# 2201

Delta R.T. -0.000 min

Lab File: VY022086.D

Acq: 30 Apr 2025 16:42

Tgt Ion:128 Resp: 24453

Ion Ratio Lower Upper

128 100

127 21.3 10.6 16.0#

129 11.2 8.9 13.3

