

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
 Data File : VY023078.D
 Acq On : 13 Aug 2025 18:27
 Operator : SY/MD
 Sample : Q2819-16
 Misc : 6.24g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 38M-S

Quant Time: Aug 14 01:28:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

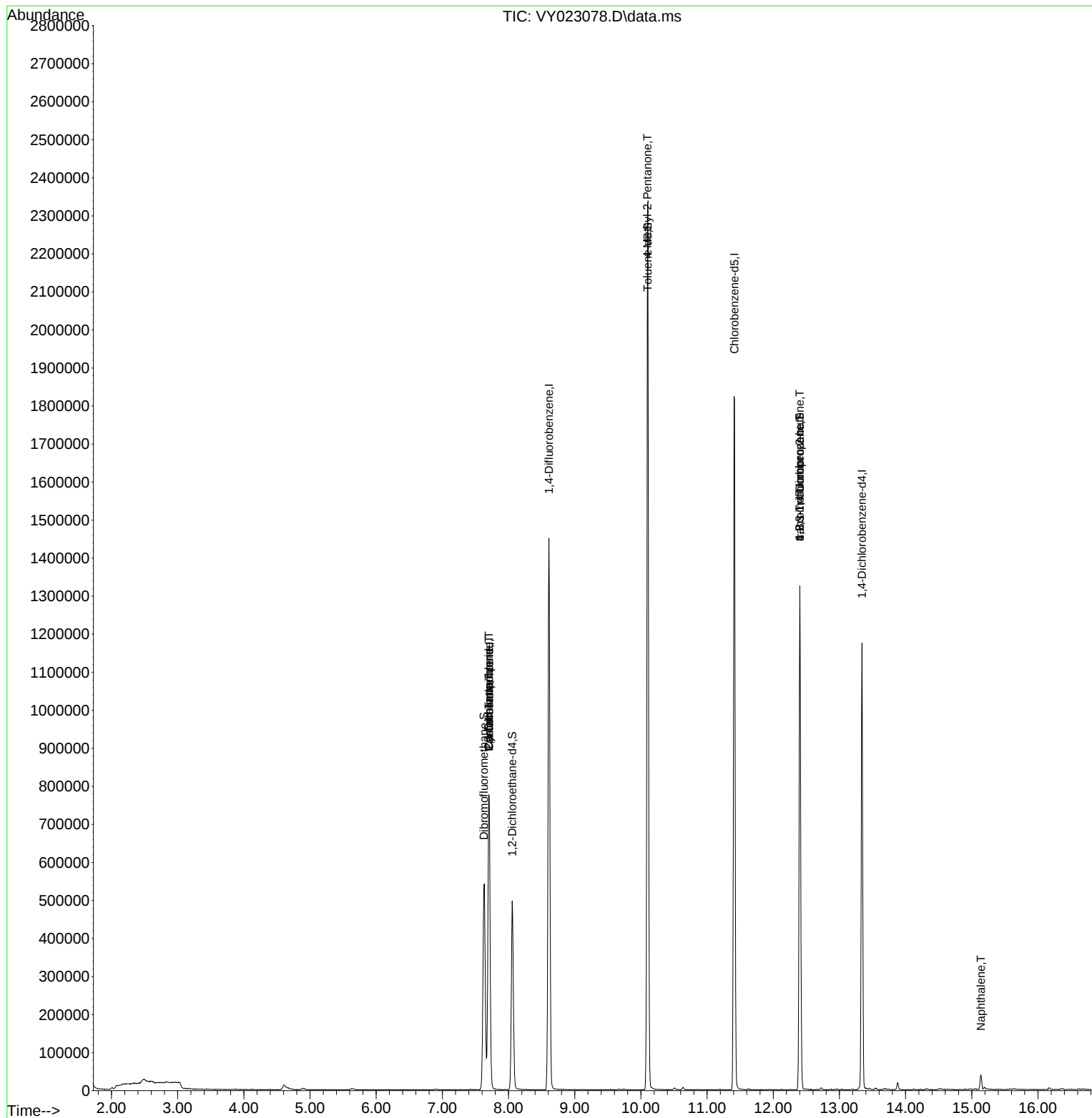
Internal Standards						
1) Pentafluorobenzene	7.707	168	610247	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	1234604	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	975171	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	288802	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	375159	64.504	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 129.000%	
35) Dibromofluoromethane	7.628	113	387773	52.491	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 104.980%	
50) Toluene-d8	10.103	98	1460733	50.615	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 101.220%	
62) 4-Bromofluorobenzene	12.401	95	351388	37.860	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 75.720%	
Target Compounds						Qvalue
20) Methylene Chloride	4.610	84	8369	Below Cal	95	
31) Cyclohexane	7.701	56	13673	1.262 ug/l	#	17
36) 1,1-Dichloropropene	7.701	75	48459	4.414 ug/l	#	49
38) Carbon Tetrachloride	7.701	117	61442	5.153 ug/l	#	17
51) 4-Methyl-2-Pentanone	10.097	43	6232	1.296 ug/l	#	1
76) 1,2,3-Trichloropropane	12.401	75	186856	67.040 ug/l	#	100
81) trans-1,4-Dichloro-2-b...	12.401	75	186856	162.282 ug/l	#	14
95) Naphthalene	15.139	128	33013	3.893 ug/l	98	

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
Data File : VY023078.D
Acq On : 13 Aug 2025 18:27
Operator : SY/MD
Sample : Q2819-16
Misc : 6.24g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 21 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
38M-S

Quant Time: Aug 14 01:28:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
Response via : Initial Calibration

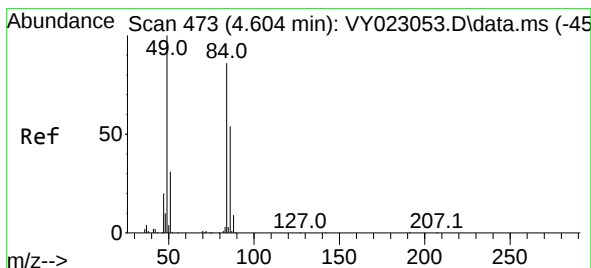
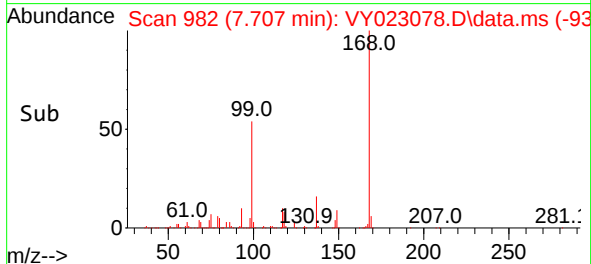
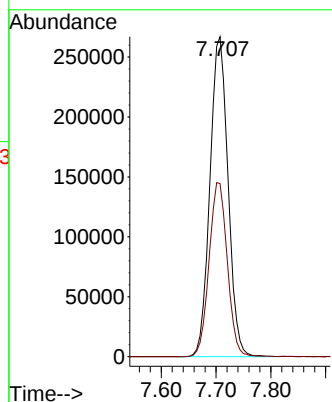
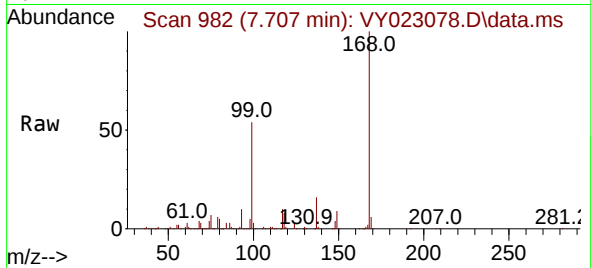




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY023078.D
Acq: 13 Aug 2025 18:27

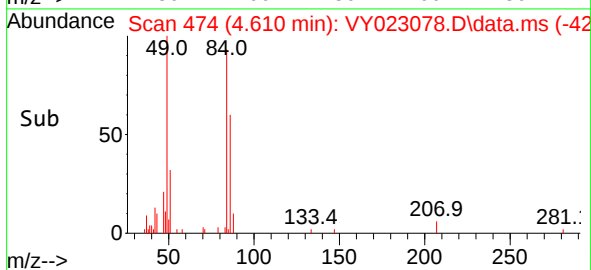
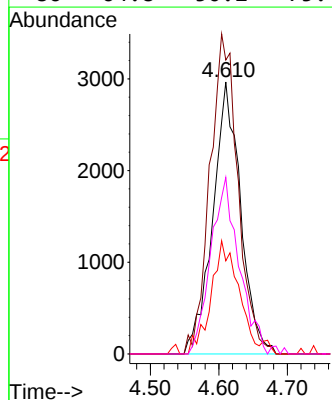
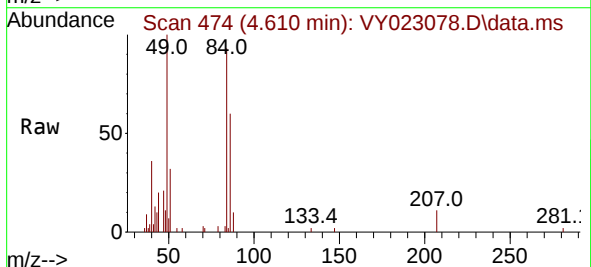
Instrument :
MSVOA_Y
ClientSampleId :
38M-S

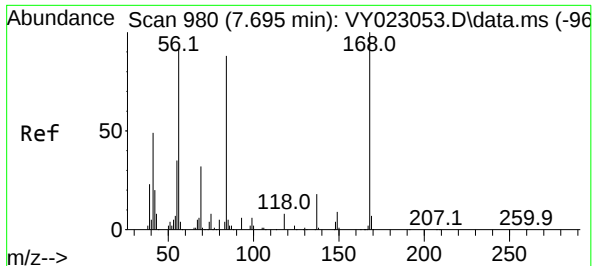
Tgt Ion:168 Resp: 610247
Ion Ratio Lower Upper
168 100
99 54.1 42.8 64.2



#20
Methylene Chloride
Concen: Below Cal
RT: 4.610 min Scan# 474
Delta R.T. 0.006 min
Lab File: VY023078.D
Acq: 13 Aug 2025 18:27

Tgt Ion: 84 Resp: 8369
Ion Ratio Lower Upper
84 100
49 108.0 93.0 139.6
51 34.2 29.0 43.4
86 64.8 50.2 75.4

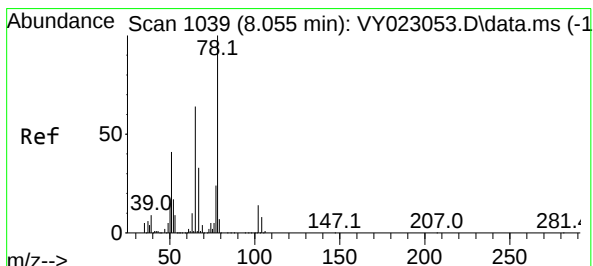
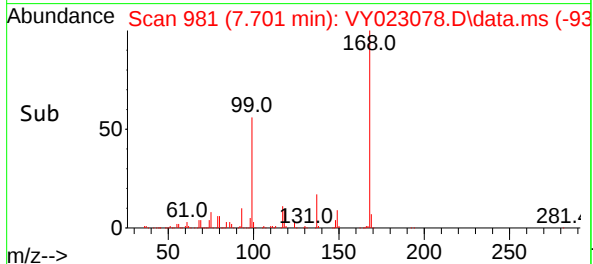
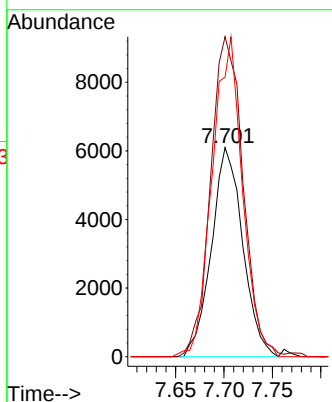
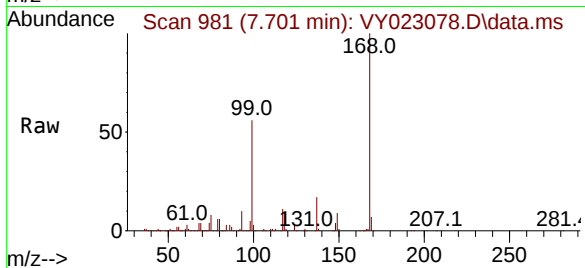




#31
Cyclohexane
Concen: 1.262 ug/l
RT: 7.701 min Scan# 980
Delta R.T. 0.006 min
Lab File: VY023078.D
Acq: 13 Aug 2025 18:27

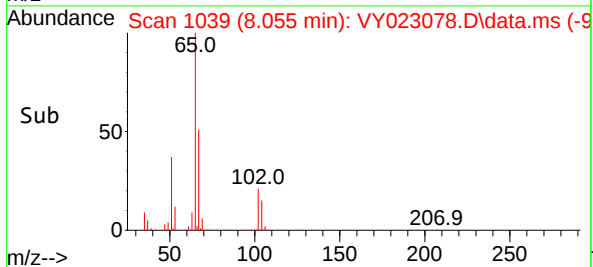
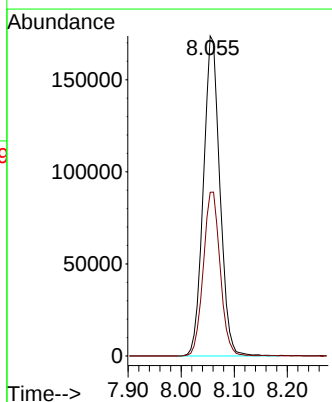
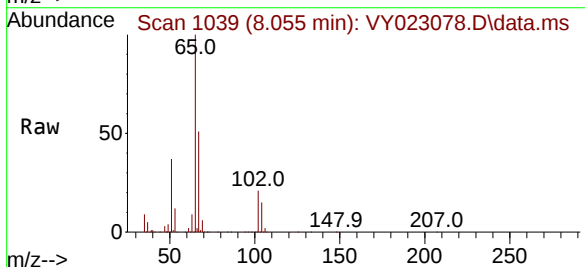
Instrument :
MSVOA_Y
ClientSampleId :
38M-S

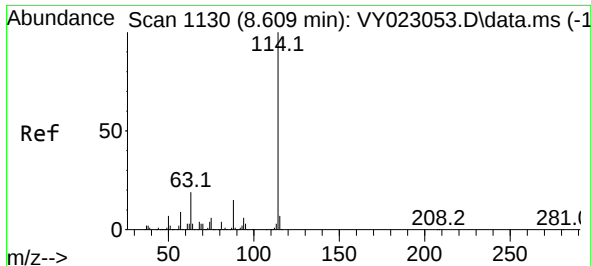
Tgt Ion: 56 Resp: 13673
Ion Ratio Lower Upper
56 100
69 153.0 28.2 42.2#
84 133.7 76.6 114.8#



#33
1,2-Dichloroethane-d4
Concen: 64.504 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. 0.000 min
Lab File: VY023078.D
Acq: 13 Aug 2025 18:27

Tgt Ion: 65 Resp: 375159
Ion Ratio Lower Upper
65 100
67 52.3 0.0 106.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.609 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VY023078.D

Acq: 13 Aug 2025 18:27

Instrument :

MSVOA_Y

ClientSampleId :

38M-S

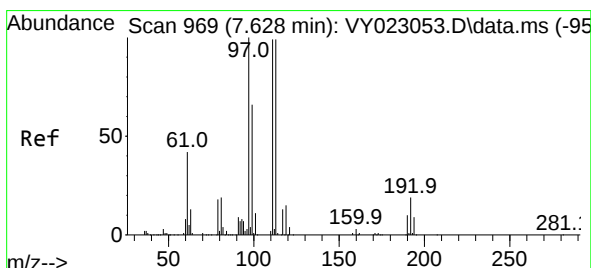
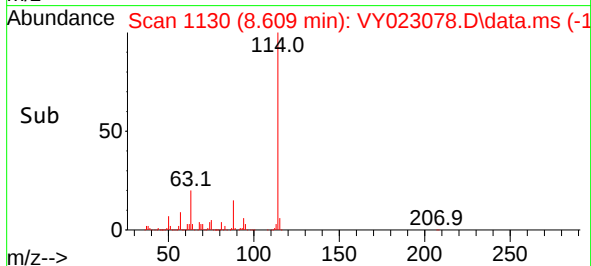
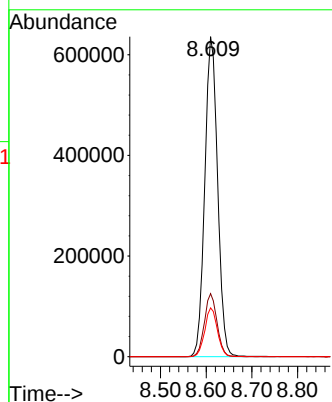
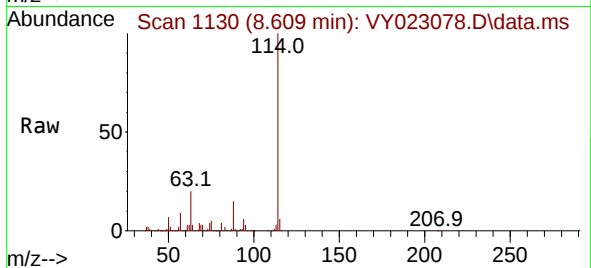
Tgt Ion:114 Resp: 1234604

Ion Ratio Lower Upper

114 100

63 19.7 0.0 38.4

88 15.2 0.0 30.0



#35

Dibromofluoromethane

Concen: 52.491 ug/l

RT: 7.628 min Scan# 969

Delta R.T. 0.000 min

Lab File: VY023078.D

Acq: 13 Aug 2025 18:27

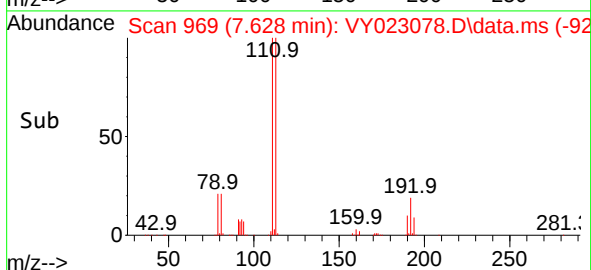
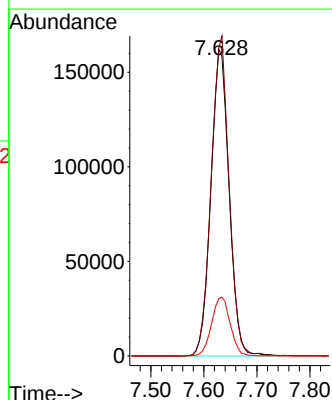
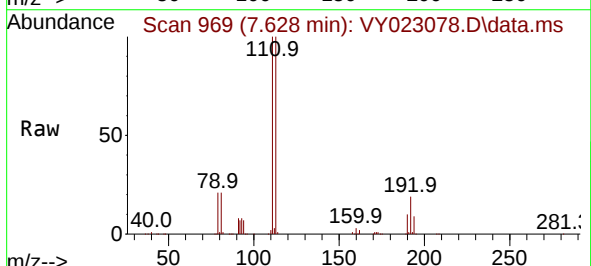
Tgt Ion:113 Resp: 387773

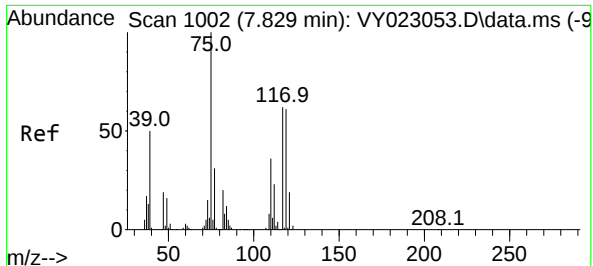
Ion Ratio Lower Upper

113 100

111 102.5 81.1 121.7

192 19.5 16.2 24.4





#36

1,1-Dichloropropene

Concen: 4.414 ug/l

RT: 7.701 min Scan# 981

Delta R.T. -0.128 min

Lab File: VY023078.D

Acq: 13 Aug 2025 18:27

Instrument :

MSVOA_Y

ClientSampleId :

38M-S

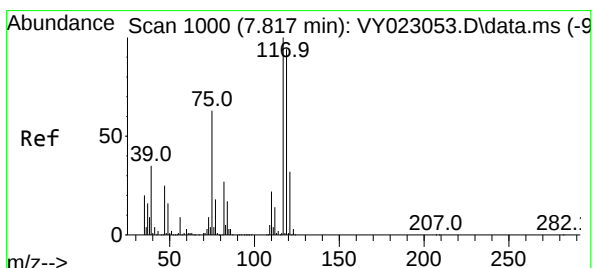
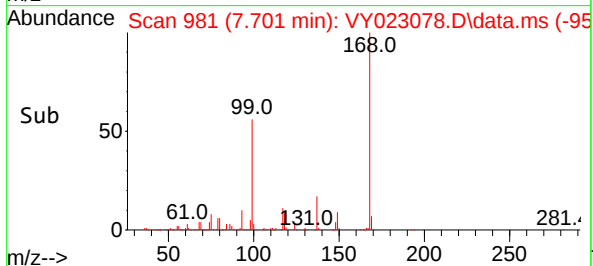
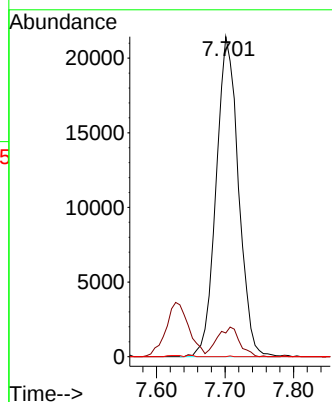
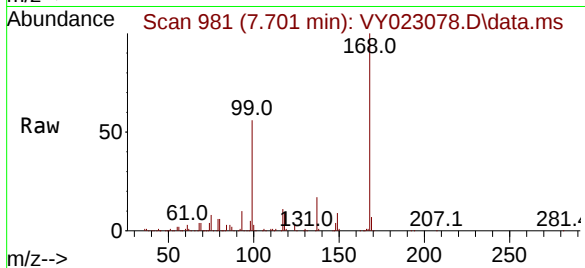
Tgt Ion: 75 Resp: 48459

Ion Ratio Lower Upper

75 100

110 9.2 18.1 54.4#

77 0.0 24.6 37.0#



#38

Carbon Tetrachloride

Concen: 5.153 ug/l

RT: 7.701 min Scan# 981

Delta R.T. -0.116 min

Lab File: VY023078.D

Acq: 13 Aug 2025 18:27

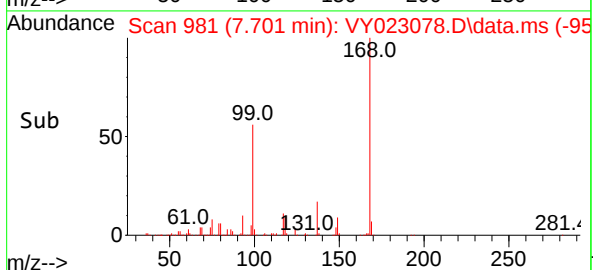
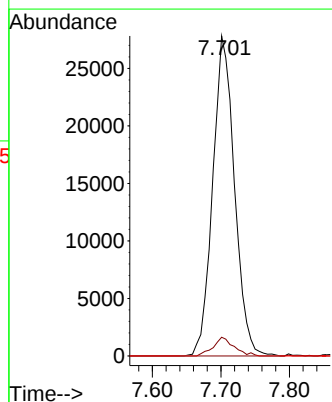
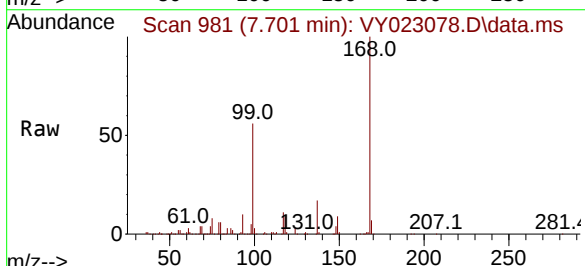
Tgt Ion: 117 Resp: 61442

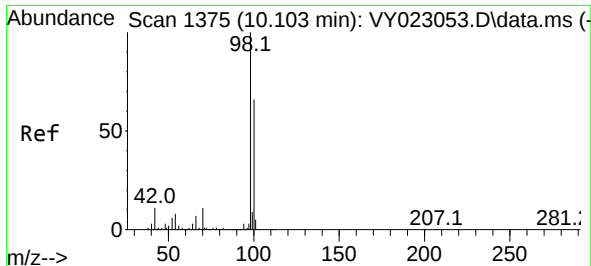
Ion Ratio Lower Upper

117 100

119 5.8 75.6 113.4#

121 0.0 25.8 38.8#

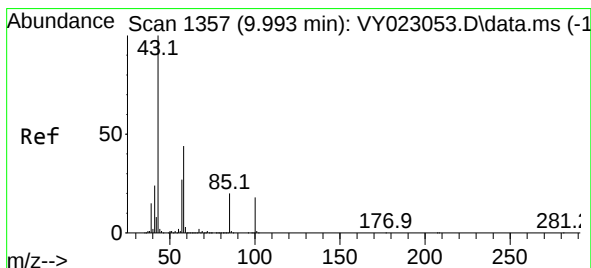
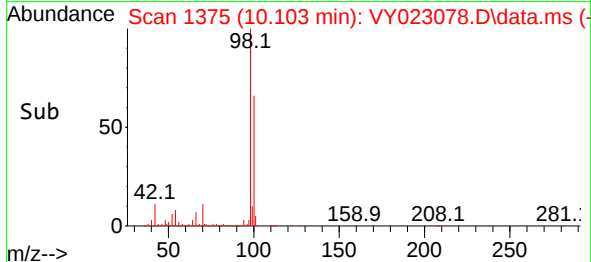
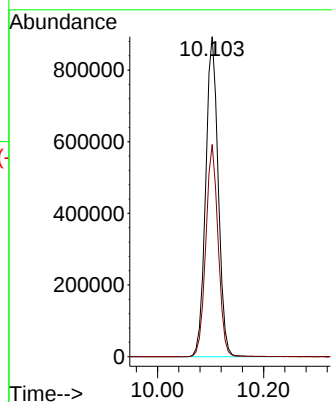
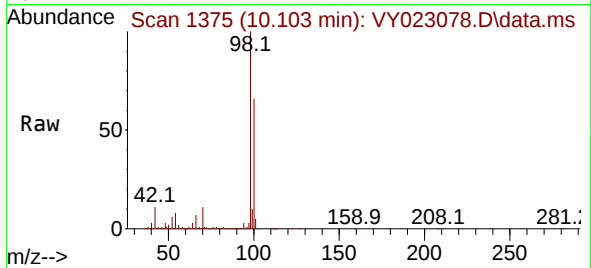




#50
Toluene-d8
Concen: 50.615 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023078.D
Acq: 13 Aug 2025 18:27

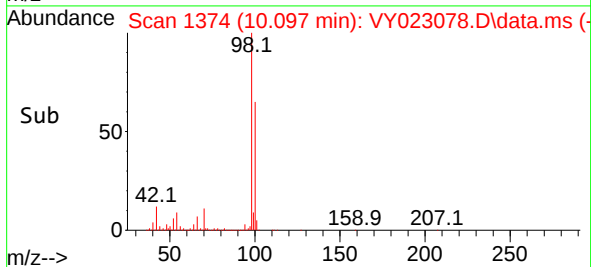
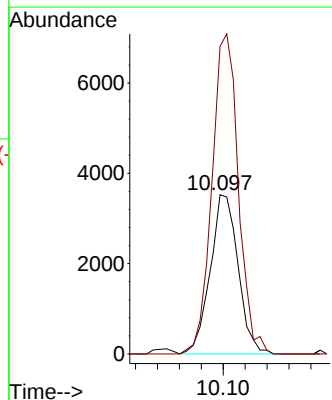
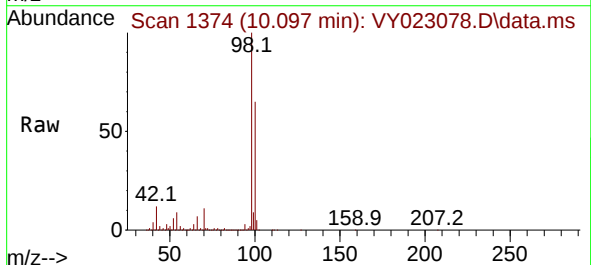
Instrument :
MSVOA_Y
ClientSampleId :
38M-S

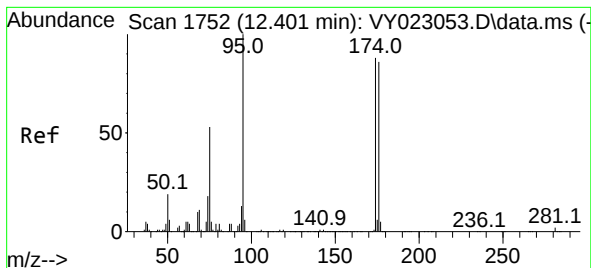
Tgt Ion: 98 Resp: 1460733
Ion Ratio Lower Upper
98 100
100 65.1 52.3 78.5



#51
4-Methyl-2-Pentanone
Concen: 1.296 ug/l
RT: 10.097 min Scan# 1374
Delta R.T. 0.104 min
Lab File: VY023078.D
Acq: 13 Aug 2025 18:27

Tgt Ion: 43 Resp: 6232
Ion Ratio Lower Upper
43 100
58 190.3 33.5 50.3

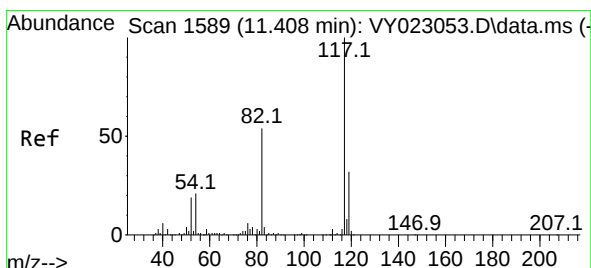
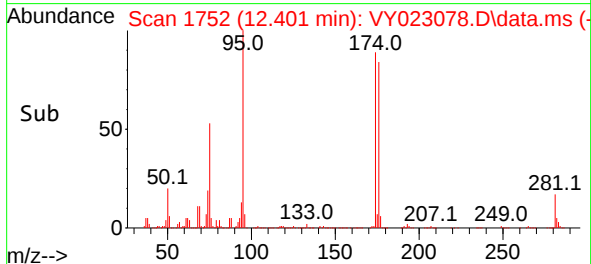
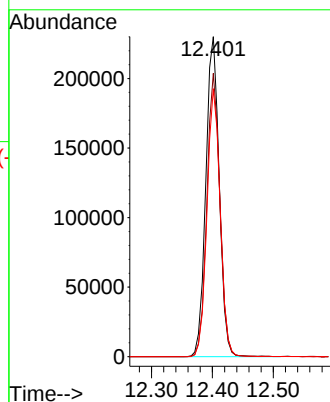
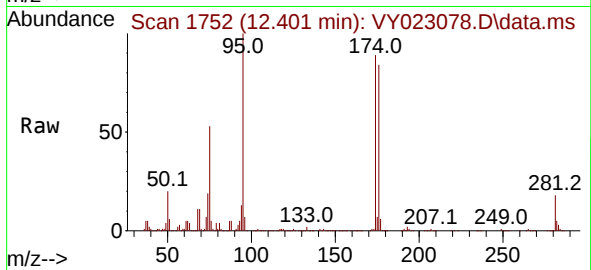




#62
4-Bromofluorobenzene
Concen: 37.860 ug/l
RT: 12.401 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY023078.D
Acq: 13 Aug 2025 18:27

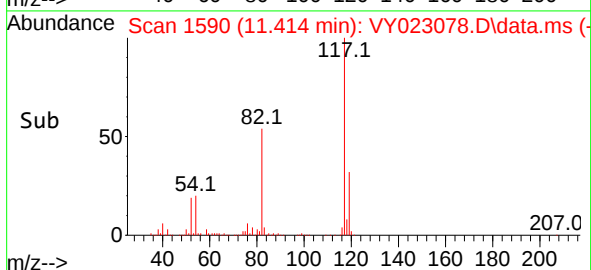
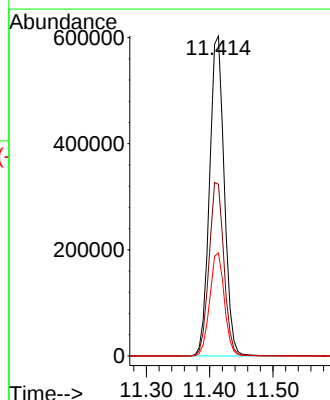
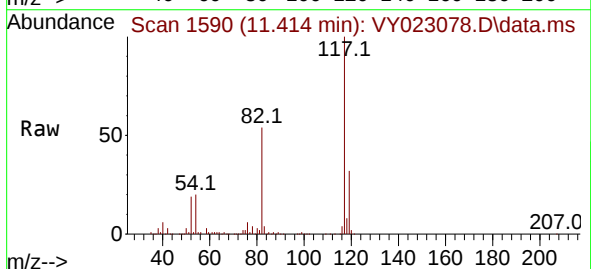
Instrument :
MSVOA_Y
ClientSampleId :
38M-S

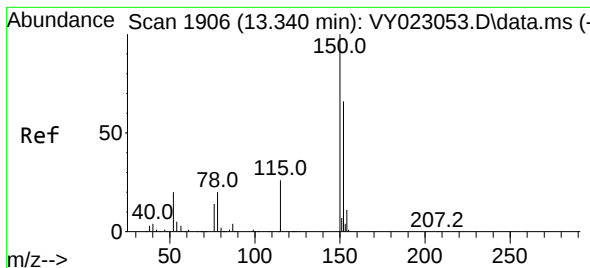
Tgt Ion: 95 Resp: 351388
Ion Ratio Lower Upper
95 100
174 86.5 0.0 171.6
176 82.4 0.0 167.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.006 min
Lab File: VY023078.D
Acq: 13 Aug 2025 18:27

Tgt Ion: 117 Resp: 975171
Ion Ratio Lower Upper
117 100
82 53.7 43.4 65.0
119 32.2 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.340 min Scan# 1906

Delta R.T. 0.000 min

Lab File: VY023078.D

Acq: 13 Aug 2025 18:27

Instrument :

MSVOA_Y

ClientSampleId :

38M-S

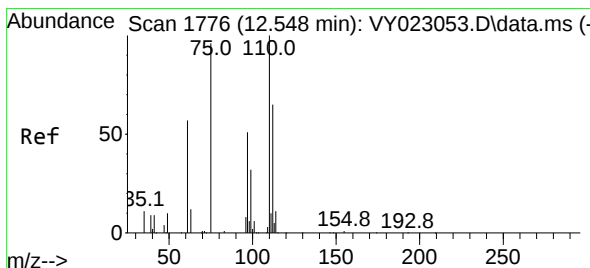
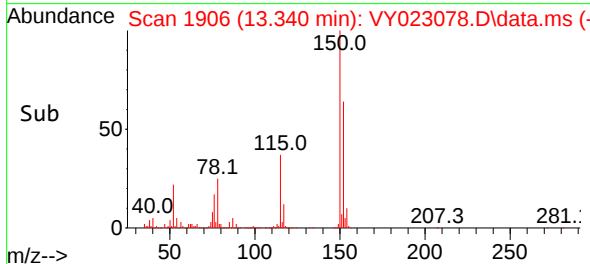
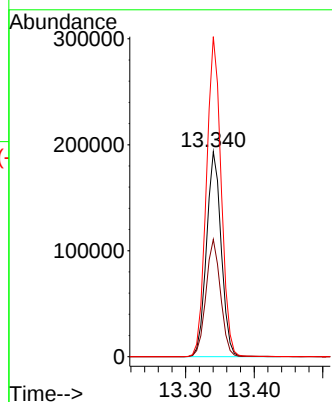
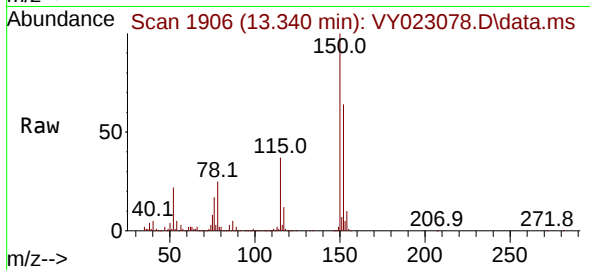
Tgt Ion:152 Resp: 288802

Ion Ratio Lower Upper

152 100

115 56.7 28.2 84.6

150 156.6 0.0 348.0



#76

1,2,3-Trichloropropane

Concen: 67.040 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. -0.146 min

Lab File: VY023078.D

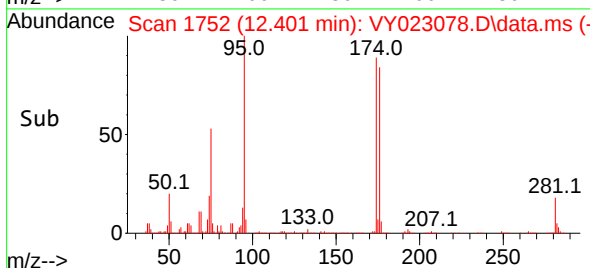
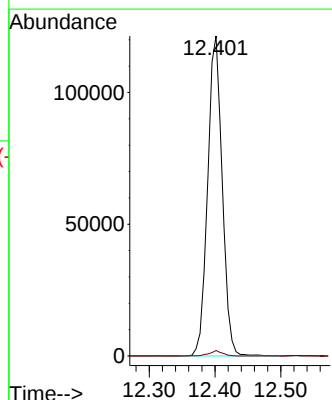
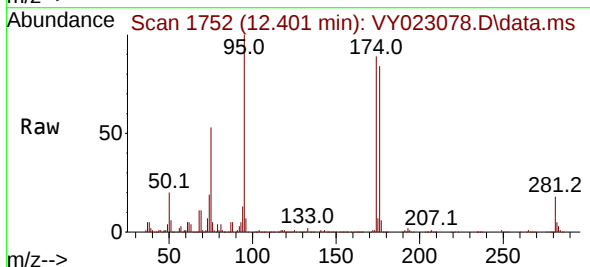
Acq: 13 Aug 2025 18:27

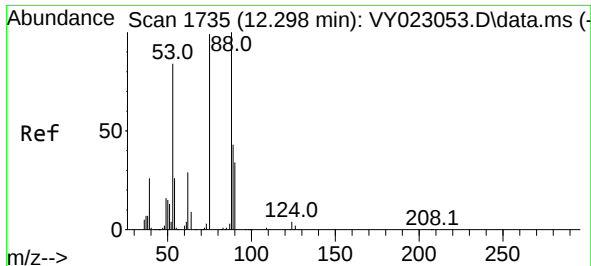
Tgt Ion: 75 Resp: 186856

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#

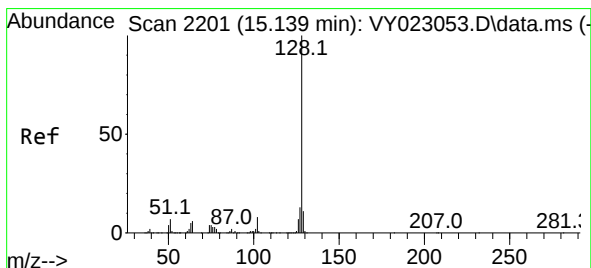
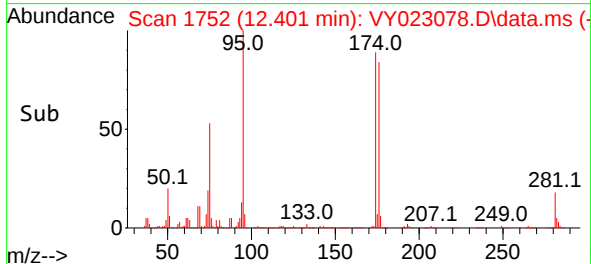
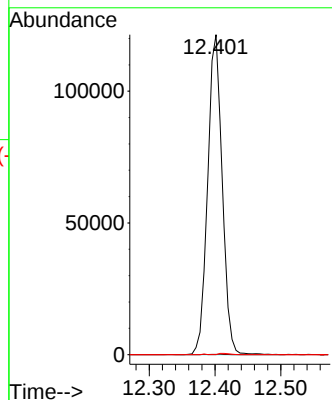
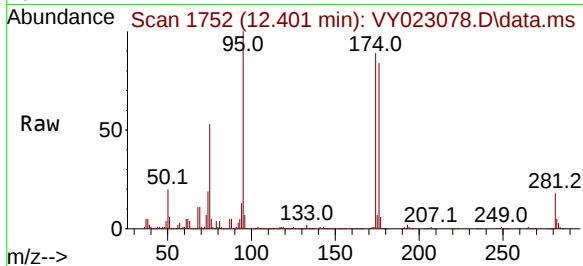




#81
trans-1,4-Dichloro-2-butene
Concen: 162.282 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.104 min
Lab File: VY023078.D
Acq: 13 Aug 2025 18:27

Instrument :
MSVOA_Y
ClientSampleId :
38M-S

Tgt Ion: 75 Resp: 186856
Ion Ratio Lower Upper
75 100
53 0.1 70.8 106.2#
89 0.3 38.1 57.1#



#95
Naphthalene
Concen: 3.893 ug/l
RT: 15.139 min Scan# 2201
Delta R.T. 0.000 min
Lab File: VY023078.D
Acq: 13 Aug 2025 18:27

Tgt Ion:128 Resp: 33013
Ion Ratio Lower Upper
128 100
127 14.0 10.4 15.6
129 11.3 9.0 13.4

