

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082925\
 Data File : VY023241.D
 Acq On : 29 Aug 2025 12:44
 Operator : SY/MD
 Sample : Q2982-03
 Misc : 5.42g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MOO-25-0244-0248

Quant Time: Aug 30 01:20:39 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)

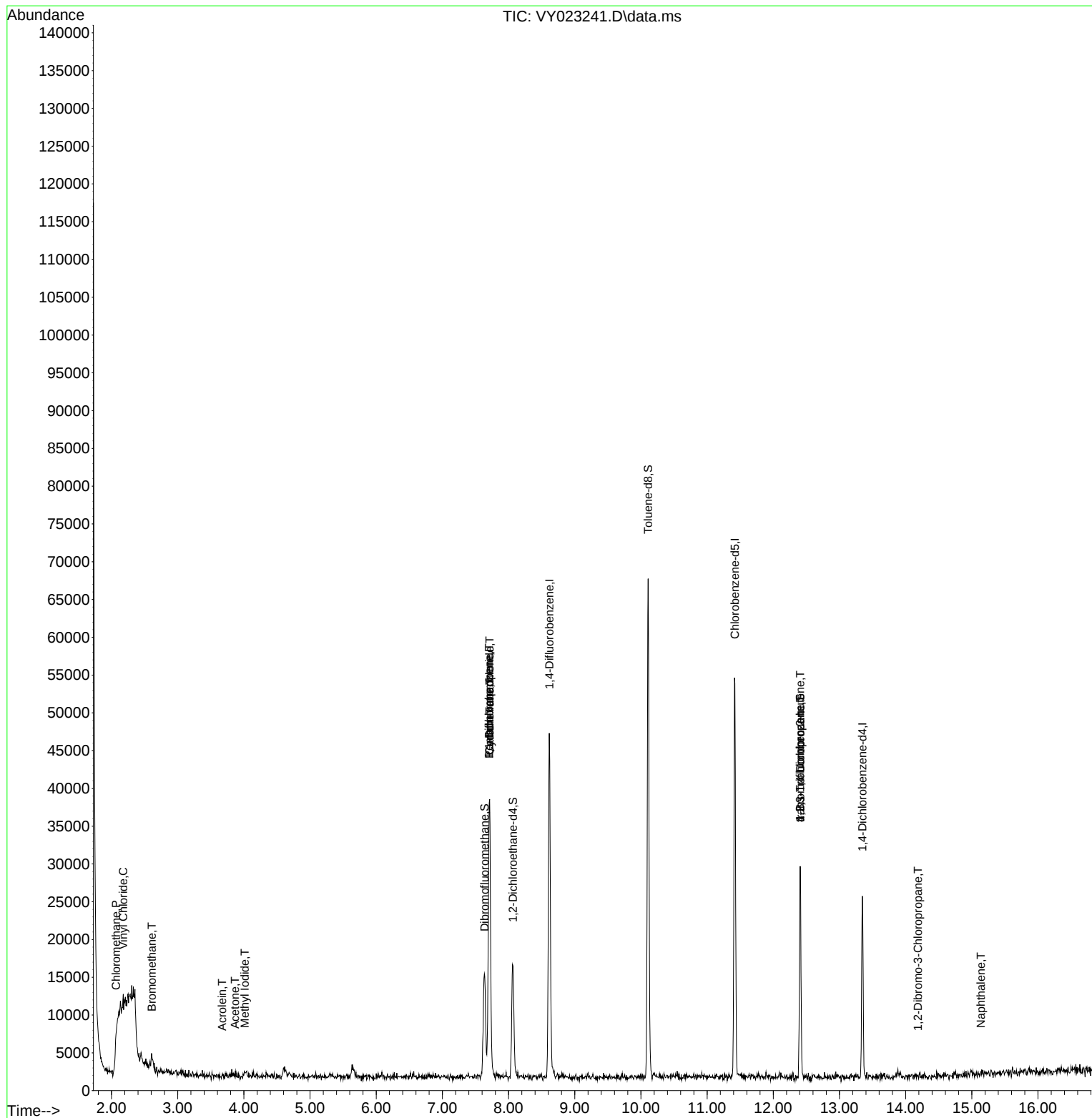
Internal Standards						
1) Pentafluorobenzene	7.707	168	30485	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	41458	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	30892	50.000	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.346	152	6440	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	12411	42.717	ug/l	0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	=	85.440%
35) Dibromofluoromethane	7.640	113	11109	44.781	ug/l	0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	=	89.560%
50) Toluene-d8	10.109	98	44779	46.206	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	92.420%
62) 4-Bromofluorobenzene	12.407	95	8467	27.167	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	54.340%
Target Compounds						Qvalue
3) Chloromethane	2.068	50	520	1.290	ug/l	92
4) Vinyl Chloride	2.177	62	587	1.178	ug/l #	43
5) Bromomethane	2.610	94	1194	3.209	ug/l #	71
10) Methyl Iodide	4.013	142	960	2.977	ug/l #	77
13) Acrolein	3.671	56	56	1.921	ug/l #	15
16) Acetone	3.866	43	141	2.240	ug/l #	41
20) Methylene Chloride	4.616	84	860	Below Cal	#	75
31) Cyclohexane	7.713	56	661	1.221	ug/l #	51
36) 1,1-Dichloropropene	7.707	75	2259	6.127	ug/l #	46
38) Carbon Tetrachloride	7.713	117	3010	7.517	ug/l #	19
76) 1,2,3-Trichloropropane	12.407	75	4517	72.676	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.407	75	4517	175.925	ug/l #	14
92) 1,2-Dibromo-3-Chloropr...	14.188	75	20	1.655	ug/l #	1
95) Naphthalene	15.139	128	375	1.983	ug/l #	69

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

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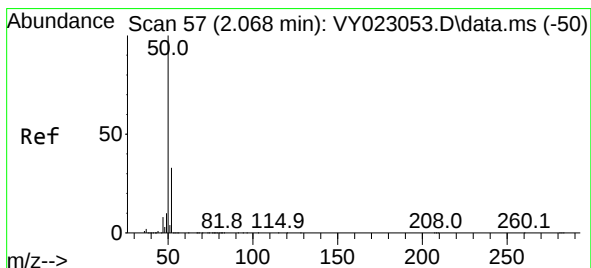
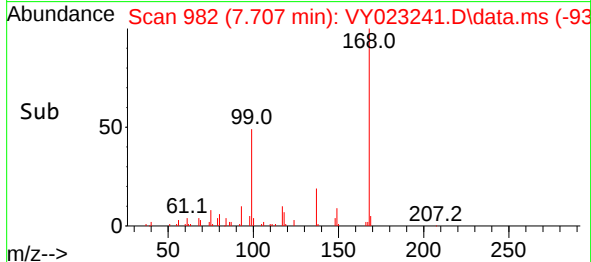
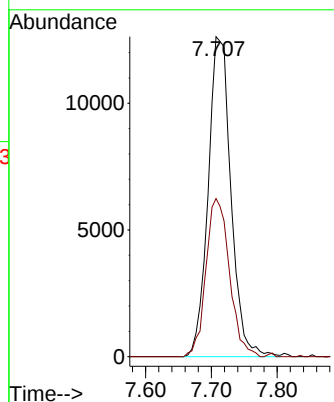
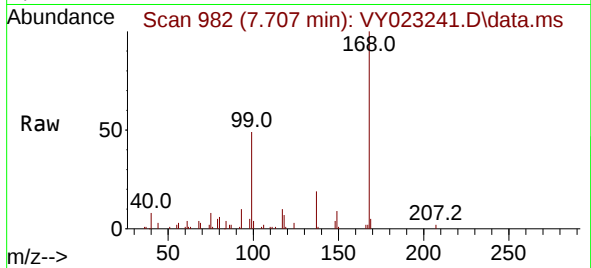




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY023241.D
Acq: 29 Aug 2025 12:44

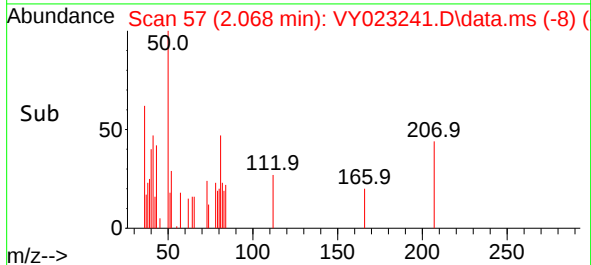
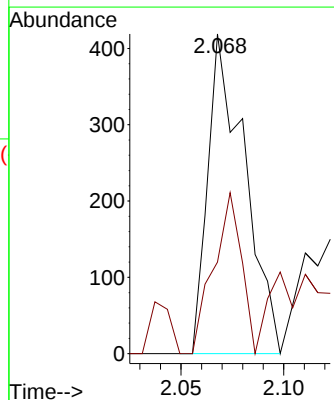
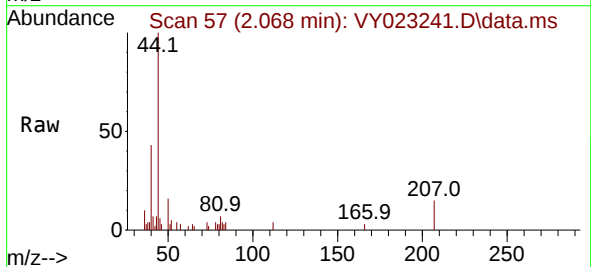
Instrument :
MSVOA_Y
ClientSampleId :
MOO-25-0244-0248

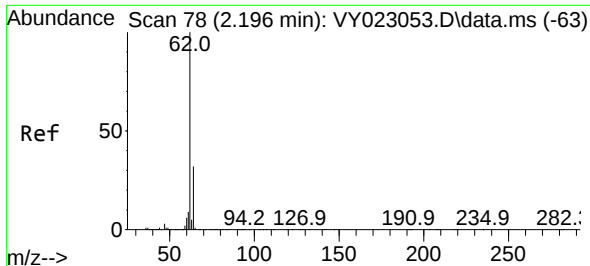
Tgt Ion:168 Resp: 30485
Ion Ratio Lower Upper
168 100
99 49.4 42.8 64.2



#3
Chloromethane
Concen: 1.290 ug/l
RT: 2.068 min Scan# 57
Delta R.T. -0.000 min
Lab File: VY023241.D
Acq: 29 Aug 2025 12:44

Tgt Ion: 50 Resp: 520
Ion Ratio Lower Upper
50 100
52 28.6 26.7 40.1

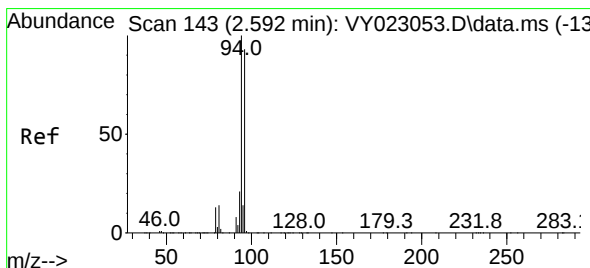
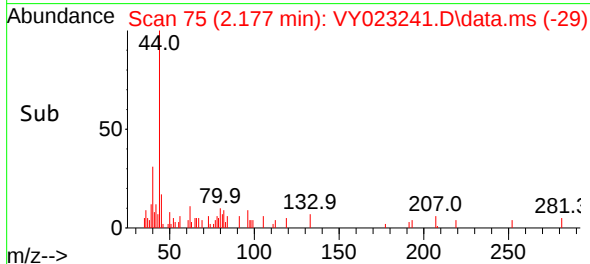
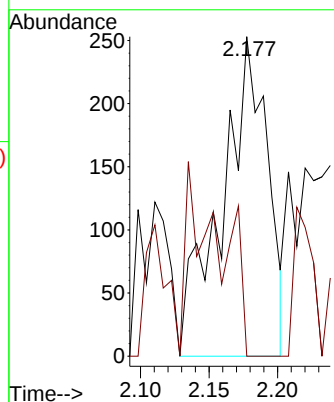
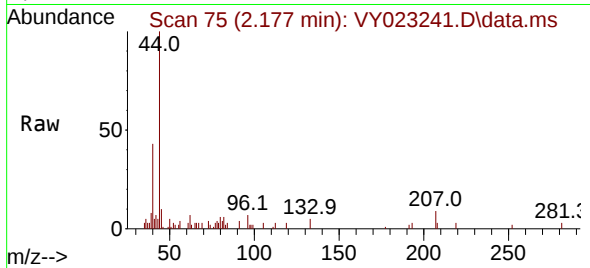




#4
 Vinyl Chloride
 Concen: 1.178 ug/l
 RT: 2.177 min Scan# 71
 Delta R.T. -0.018 min
 Lab File: VY023241.D
 Acq: 29 Aug 2025 12:44

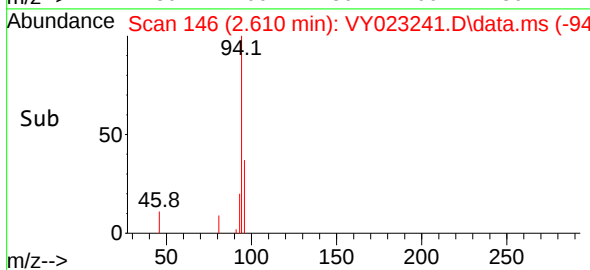
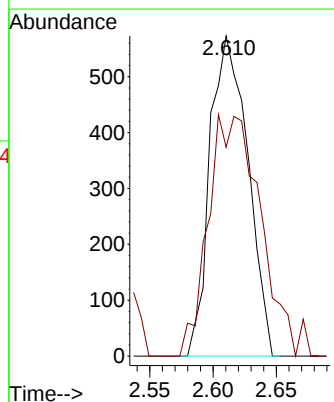
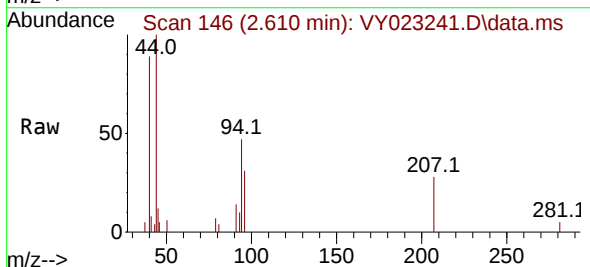
Instrument :
 MSVOA_Y
 ClientSampleId :
 MOO-25-0244-0248

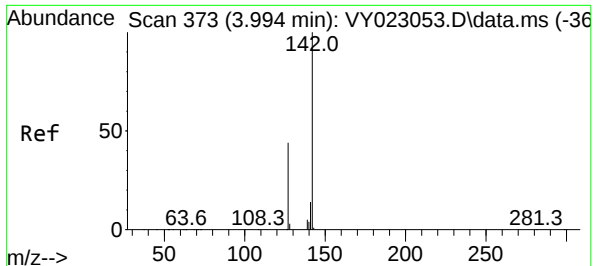
Tgt Ion: 62 Resp: 587
 Ion Ratio Lower Upper
 62 100
 64 0.0 25.4 38.0#



#5
 Bromomethane
 Concen: 3.209 ug/l
 RT: 2.610 min Scan# 146
 Delta R.T. 0.018 min
 Lab File: VY023241.D
 Acq: 29 Aug 2025 12:44

Tgt Ion: 94 Resp: 1194
 Ion Ratio Lower Upper
 94 100
 96 65.3 74.6 112.0#





#10

Methyl Iodide

Concen: 2.977 ug/l

RT: 4.013 min Scan# 31

Delta R.T. 0.018 min

Lab File: VY023241.D

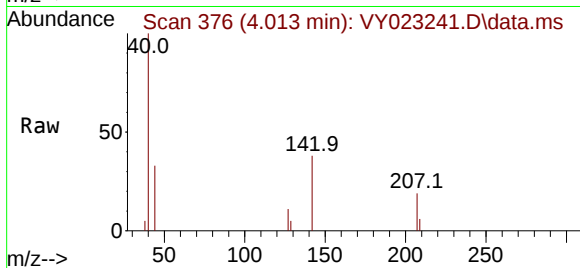
Acq: 29 Aug 2025 12:44

Instrument :

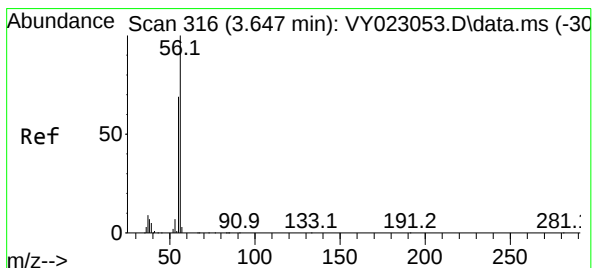
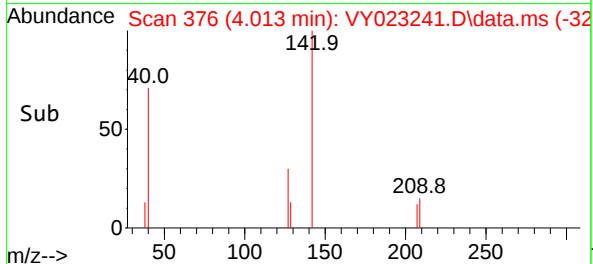
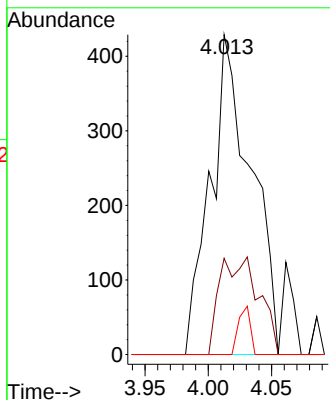
MSVOA_Y

ClientSampleId :

MOO-25-0244-0248



Tgt Ion:	142	Resp:	960
Ion	Ratio	Lower	Upper
142	100		
127	29.3	34.9	52.3#
141	4.4	11.3	16.9#



#13

Acrolein

Concen: 1.921 ug/l

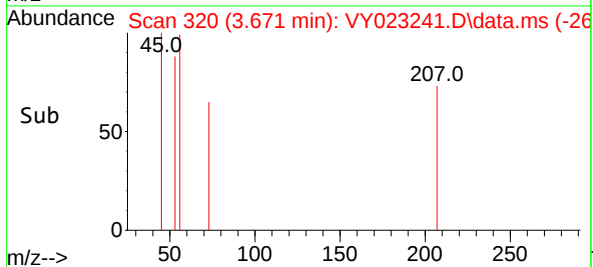
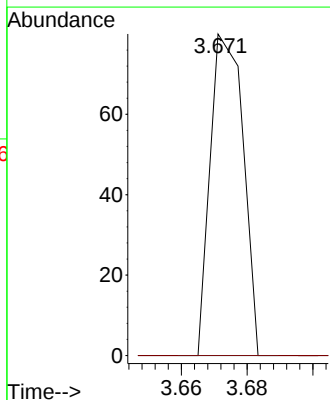
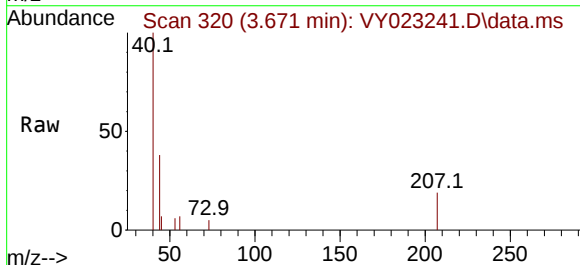
RT: 3.671 min Scan# 320

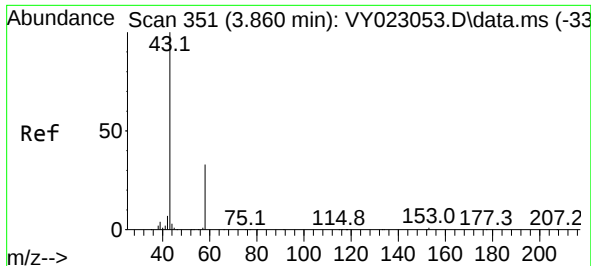
Delta R.T. 0.024 min

Lab File: VY023241.D

Acq: 29 Aug 2025 12:44

Tgt Ion:	56	Resp:	56
Ion	Ratio	Lower	Upper
56	100		
55	0.0	55.2	82.8#





#16

Acetone

Concen: 2.240 ug/l

RT: 3.866 min Scan# 3

Delta R.T. 0.006 min

Lab File: VY023241.D

Acq: 29 Aug 2025 12:44

Instrument :

MSVOA_Y

ClientSampleId :

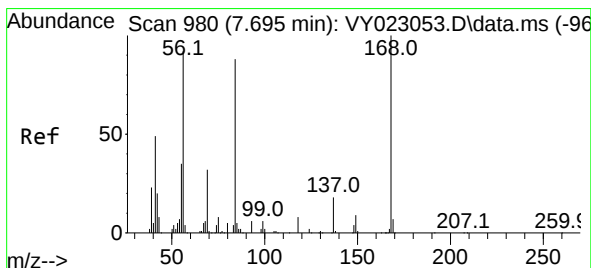
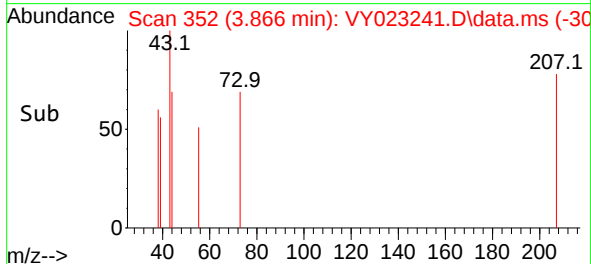
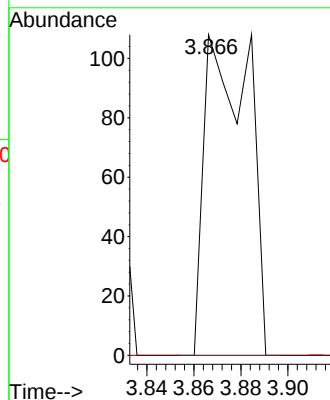
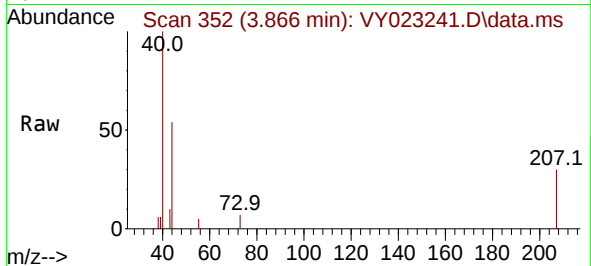
MOO-25-0244-0248

Tgt Ion: 43 Resp: 141

Ion Ratio Lower Upper

43 100

58 0.0 27.1 40.7#



#31

Cyclohexane

Concen: 1.221 ug/l

RT: 7.713 min Scan# 983

Delta R.T. 0.018 min

Lab File: VY023241.D

Acq: 29 Aug 2025 12:44

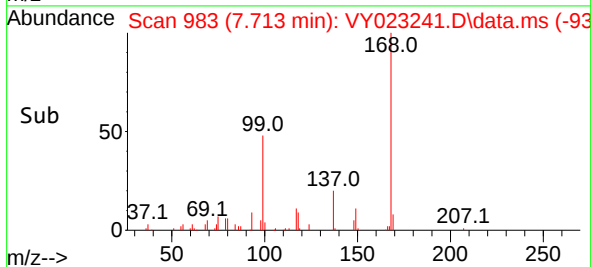
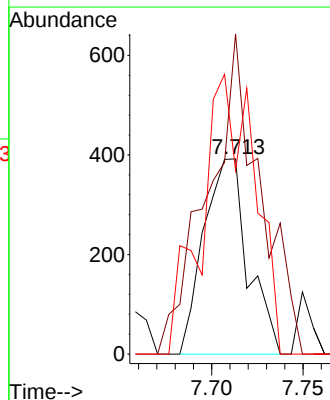
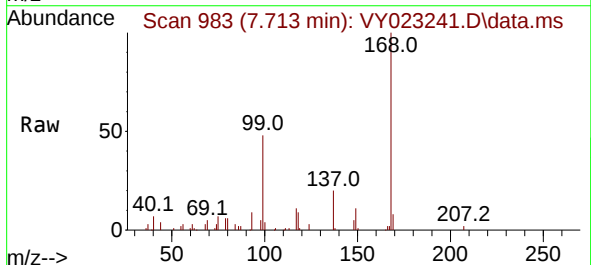
Tgt Ion: 56 Resp: 661

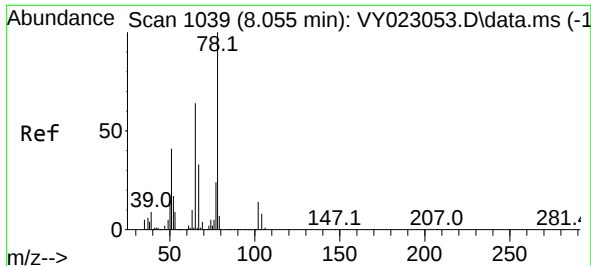
Ion Ratio Lower Upper

56 100

69 138.5 28.2 42.2#

84 94.1 76.6 114.8





#33

1,2-Dichloroethane-d4

Concen: 42.717 ug/l

RT: 8.067 min Scan# 1103

Delta R.T. 0.012 min

Lab File: VY023241.D

Acq: 29 Aug 2025 12:44

Instrument :

MSVOA_Y

ClientSampleId :

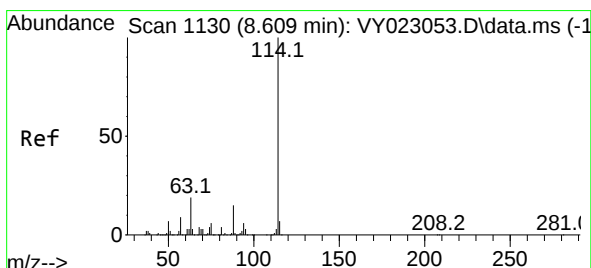
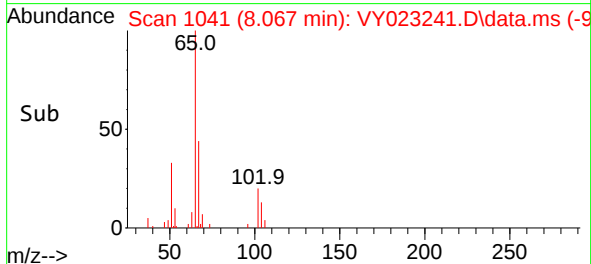
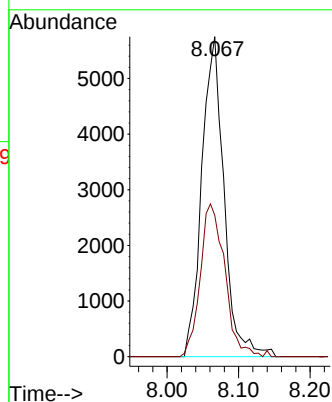
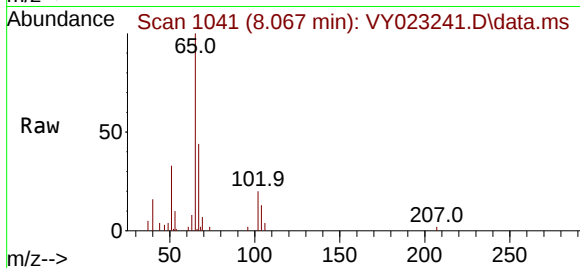
MOO-25-0244-0248

Tgt Ion: 65 Resp: 12411

Ion Ratio Lower Upper

65 100

67 52.5 0.0 106.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. 0.006 min

Lab File: VY023241.D

Acq: 29 Aug 2025 12:44

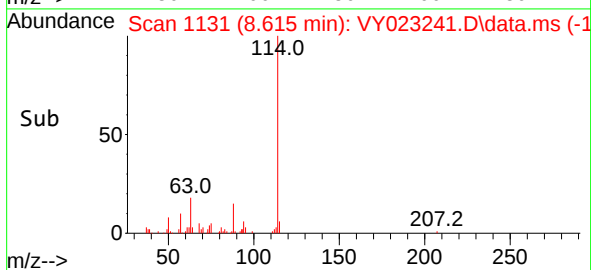
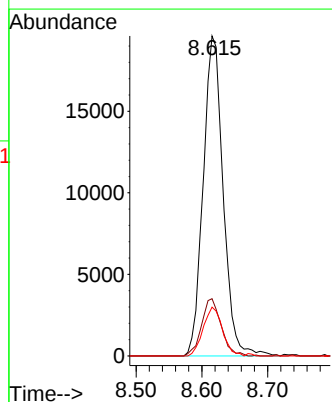
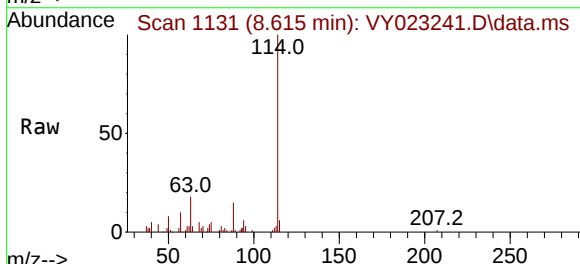
Tgt Ion: 114 Resp: 41458

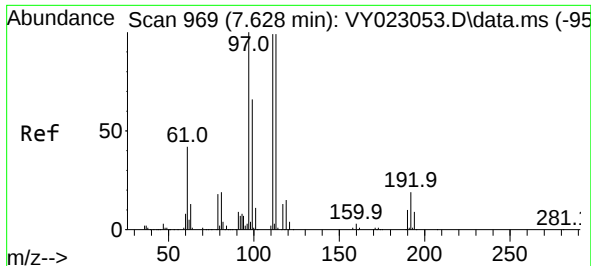
Ion Ratio Lower Upper

114 100

63 17.9 0.0 38.4

88 15.3 0.0 30.0





#35

Dibromofluoromethane

Concen: 44.781 ug/l

RT: 7.640 min Scan# 911

Delta R.T. 0.012 min

Lab File: VY023241.D

Acq: 29 Aug 2025 12:44

Instrument :

MSVOA_Y

ClientSampleId :

MOO-25-0244-0248

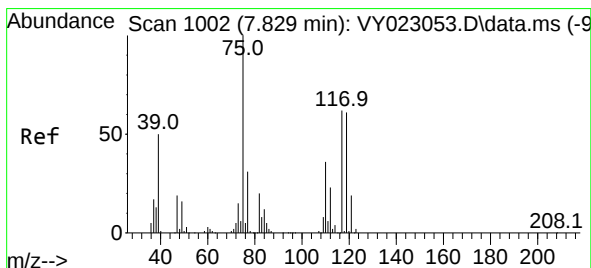
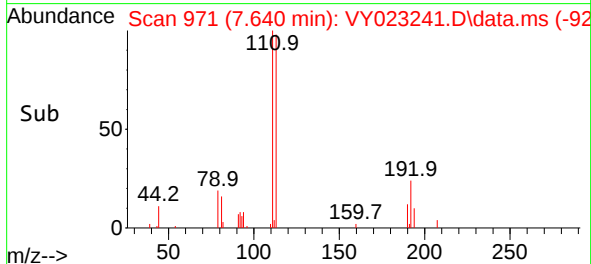
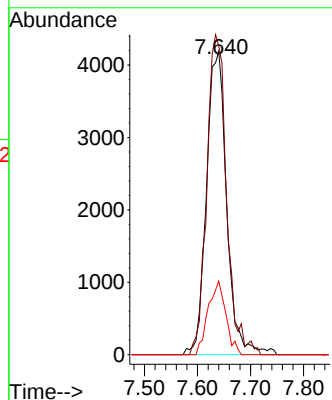
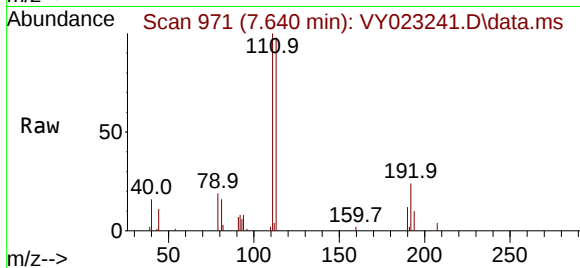
Tgt Ion:113 Resp: 11109

Ion Ratio Lower Upper

113 100

111 103.0 81.1 121.7

192 21.3 16.2 24.4



#36

1,1-Dichloropropene

Concen: 6.127 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.122 min

Lab File: VY023241.D

Acq: 29 Aug 2025 12:44

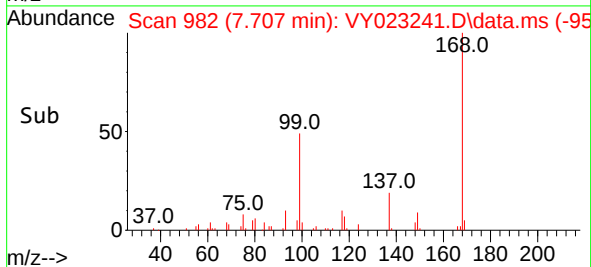
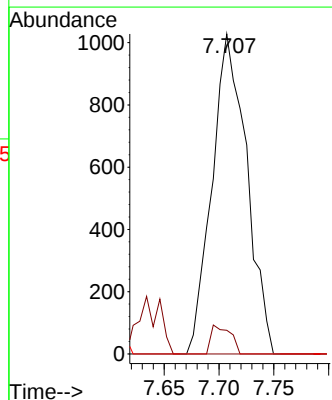
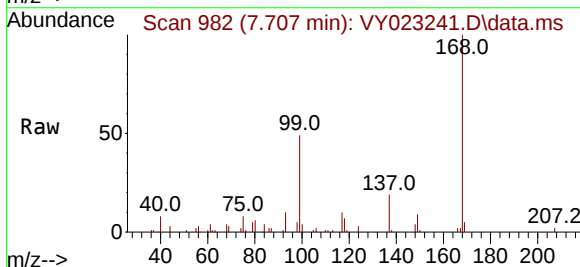
Tgt Ion: 75 Resp: 2259

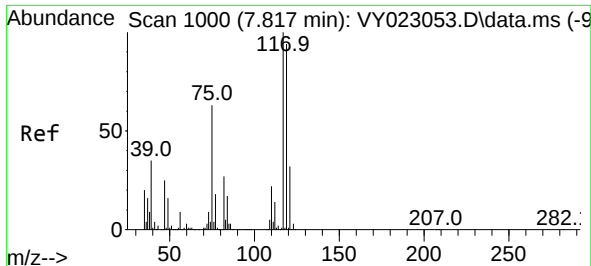
Ion Ratio Lower Upper

75 100

110 5.0 18.1 54.4#

77 0.0 24.6 37.0#

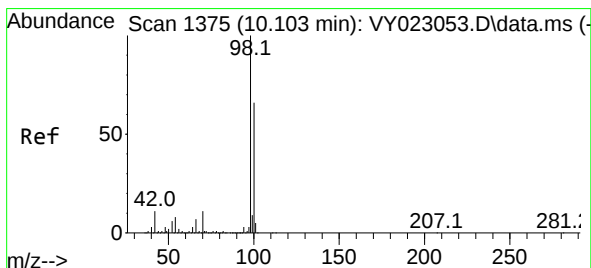
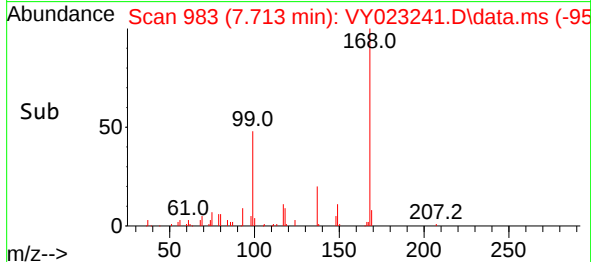
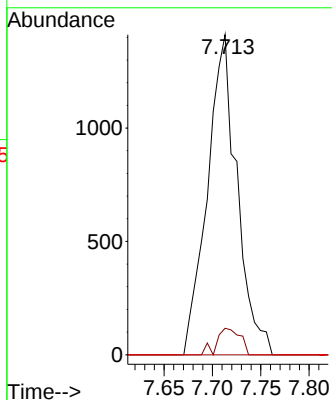
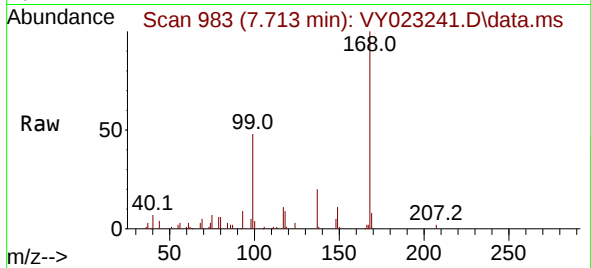




#38
Carbon Tetrachloride
Concen: 7.517 ug/l
RT: 7.713 min Scan# 91
Delta R.T. -0.104 min
Lab File: VY023241.D
Acq: 29 Aug 2025 12:44

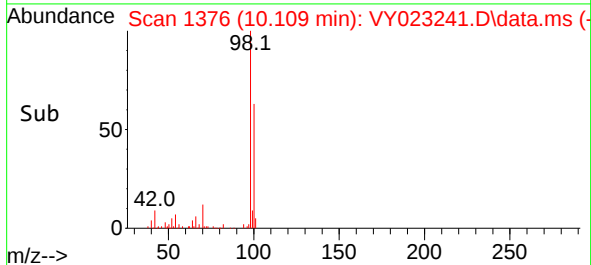
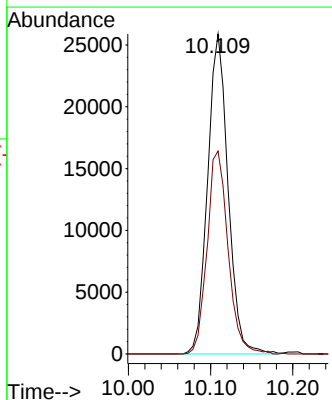
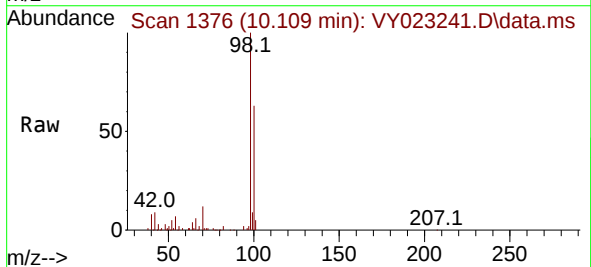
Instrument :
MSVOA_Y
ClientSampleId :
MOO-25-0244-0248

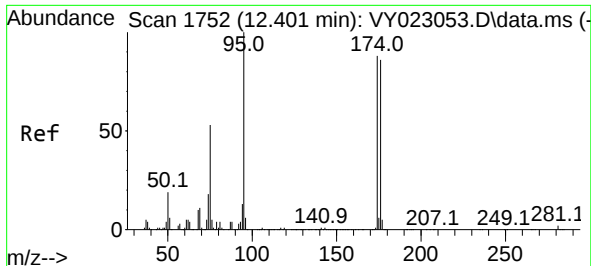
Tgt Ion:117 Resp: 3010
Ion Ratio Lower Upper
117 100
119 8.3 75.6 113.4#
121 0.0 25.8 38.8#



#50
Toluene-d8
Concen: 46.206 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023241.D
Acq: 29 Aug 2025 12:44

Tgt Ion: 98 Resp: 44779
Ion Ratio Lower Upper
98 100
100 64.9 52.3 78.5

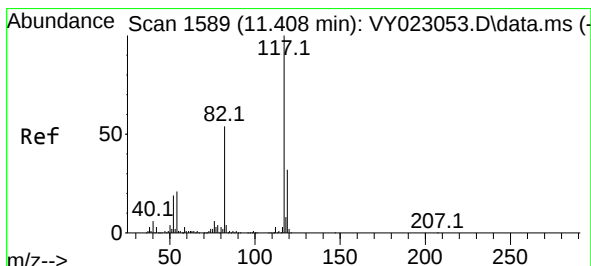
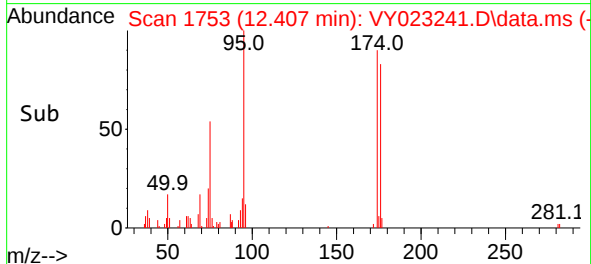
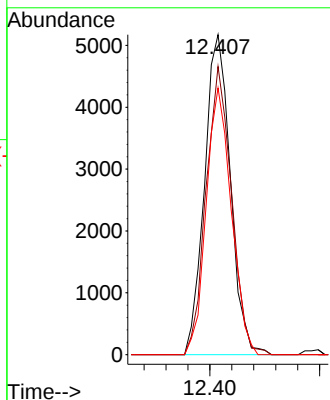
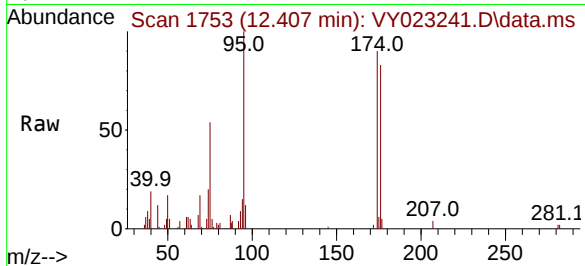




#62
4-Bromofluorobenzene
Concen: 27.167 ug/l
RT: 12.407 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023241.D
Acq: 29 Aug 2025 12:44

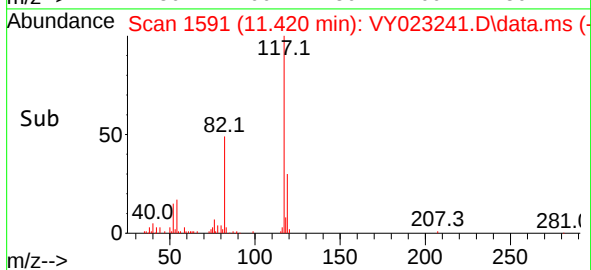
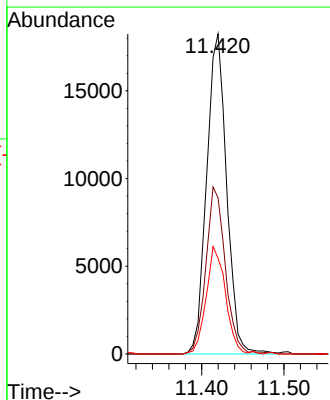
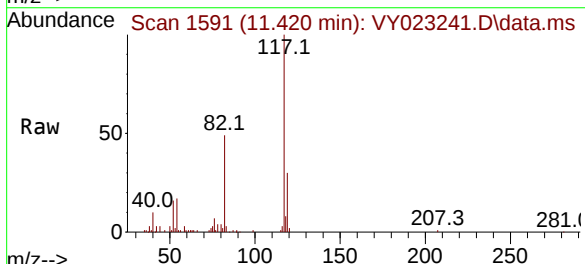
Instrument :
MSVOA_Y
ClientSampleId :
MOO-25-0244-0248

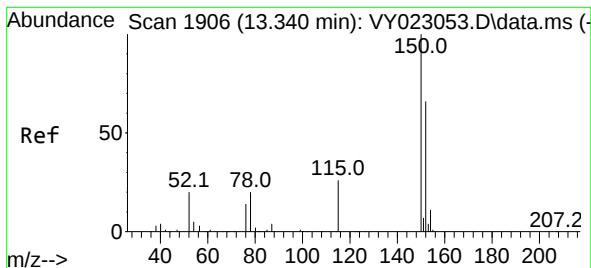
Tgt Ion:	95	Resp:	8467
Ion	Ratio	Lower	Upper
95	100		
174	88.7	0.0	171.6
176	81.0	0.0	167.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.012 min
Lab File: VY023241.D
Acq: 29 Aug 2025 12:44

Tgt Ion:	117	Resp:	30892
Ion	Ratio	Lower	Upper
117	100		
82	48.8	43.4	65.0
119	29.9	25.6	38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1906

Delta R.T. 0.006 min

Lab File: VY023241.D

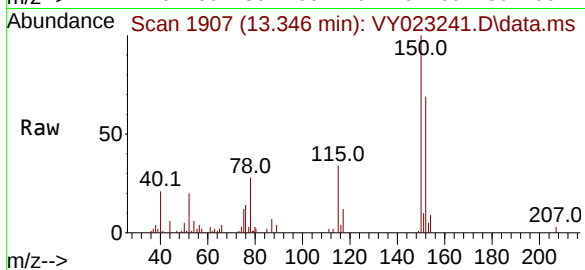
Acq: 29 Aug 2025 12:44

Instrument :

MSVOA_Y

ClientSampleId :

MOO-25-0244-0248



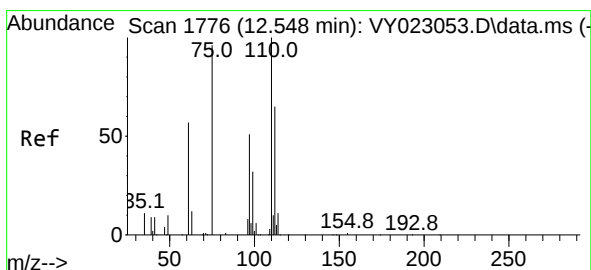
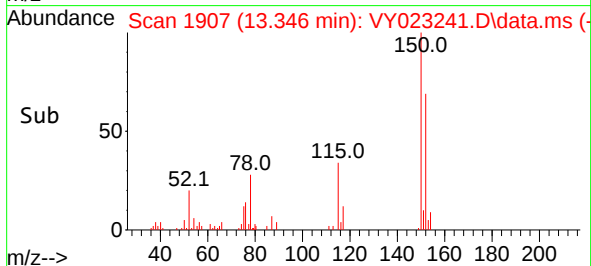
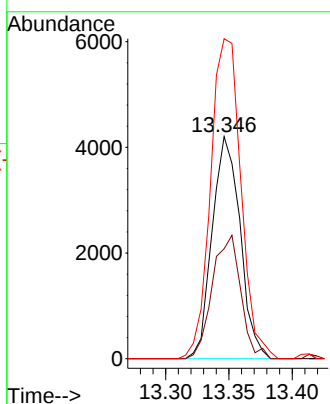
Tgt Ion:152 Resp: 6440

Ion Ratio Lower Upper

152 100

115 56.6 28.2 84.6

150 156.9 0.0 348.0



#76

1,2,3-Trichloropropane

Concen: 72.676 ug/l

RT: 12.407 min Scan# 1753

Delta R.T. -0.140 min

Lab File: VY023241.D

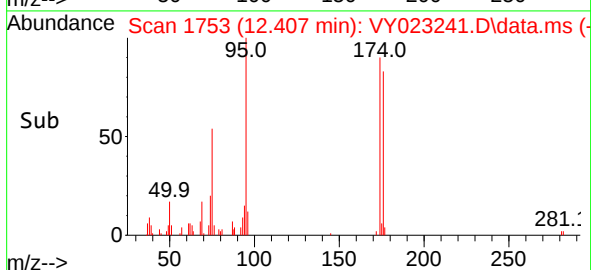
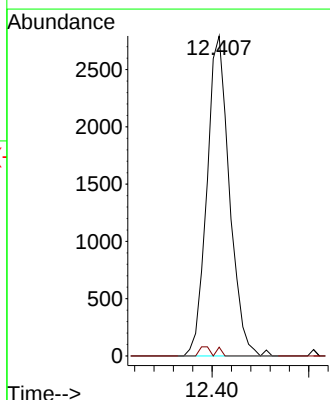
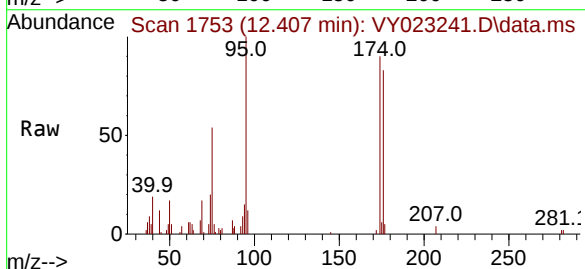
Acq: 29 Aug 2025 12:44

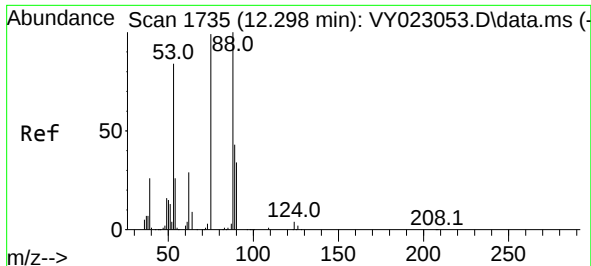
Tgt Ion: 75 Resp: 4517

Ion Ratio Lower Upper

75 100

77 1.9 0.0 0.0#

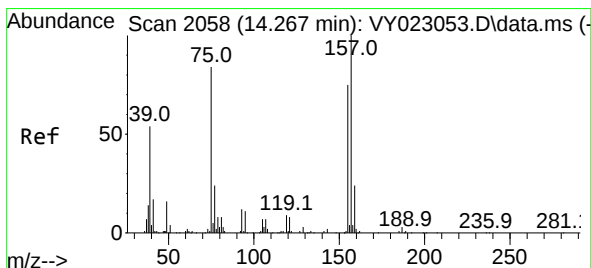
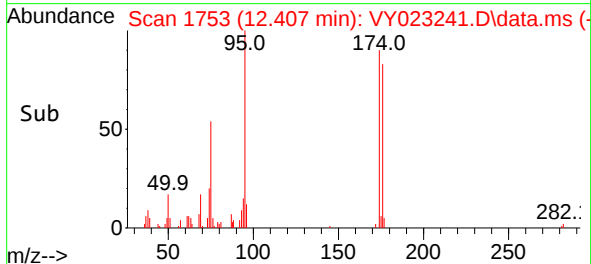
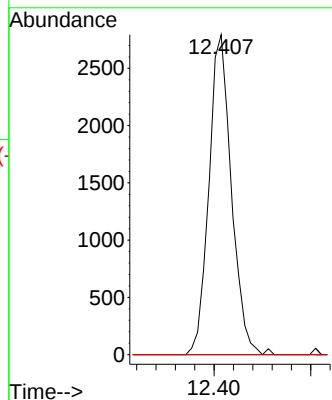
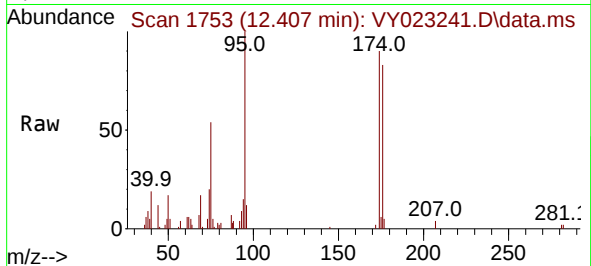




#81
 trans-1,4-Dichloro-2-butene
 Concen: 175.925 ug/l
 RT: 12.407 min Scan# 11
 Delta R.T. 0.110 min
 Lab File: VY023241.D
 Acq: 29 Aug 2025 12:44

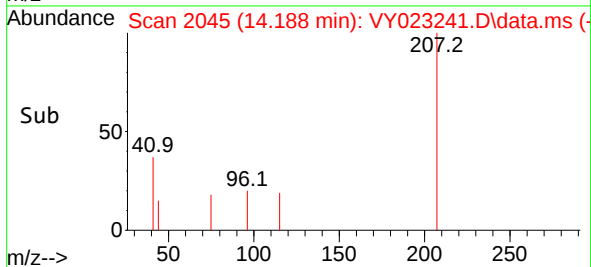
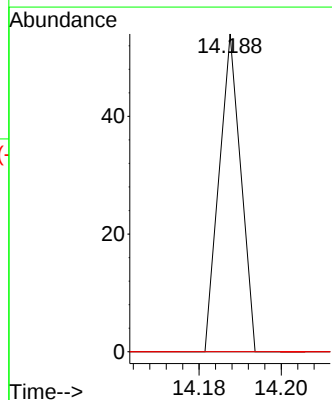
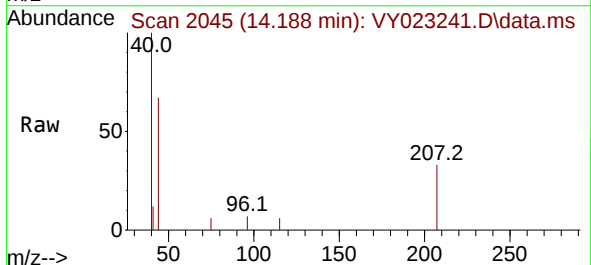
Instrument :
 MSVOA_Y
 ClientSampleId :
 MOO-25-0244-0248

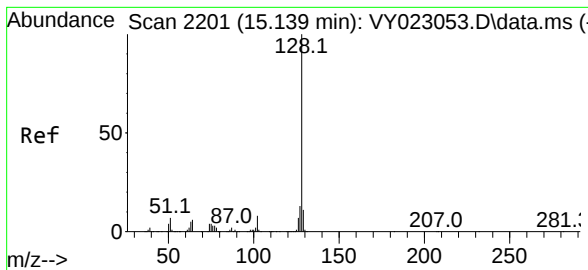
Tgt Ion: 75 Resp: 4517
 Ion Ratio Lower Upper
 75 100
 53 0.0 70.8 106.2#
 89 0.0 38.1 57.1#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.655 ug/l
 RT: 14.188 min Scan# 2045
 Delta R.T. -0.079 min
 Lab File: VY023241.D
 Acq: 29 Aug 2025 12:44

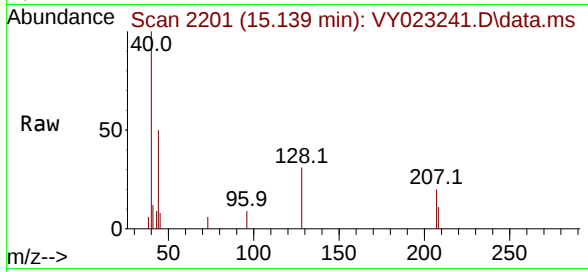
Tgt Ion: 75 Resp: 20
 Ion Ratio Lower Upper
 75 100
 155 0.0 43.9 131.6#
 157 0.0 57.2 171.6#





#95
 Naphthalene
 Concen: 1.983 ug/l
 RT: 15.139 min Scan# 21
 Delta R.T. -0.000 min
 Lab File: VY023241.D
 Acq: 29 Aug 2025 12:44

Instrument :
 MSVOA_Y
 ClientSampleId :
 MOO-25-0244-0248



Tgt Ion:	128	Resp:	375
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.4	15.6#
129	0.0	9.0	13.4#

