

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY092525\
 Data File : VY023374.D
 Acq On : 25 Sep 2025 15:19
 Operator : SY/MD
 Sample : Q3200-01
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Sep 26 04:25:15 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090825S.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 10 01:44:33 2025
 Response via : Initial Calibration

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

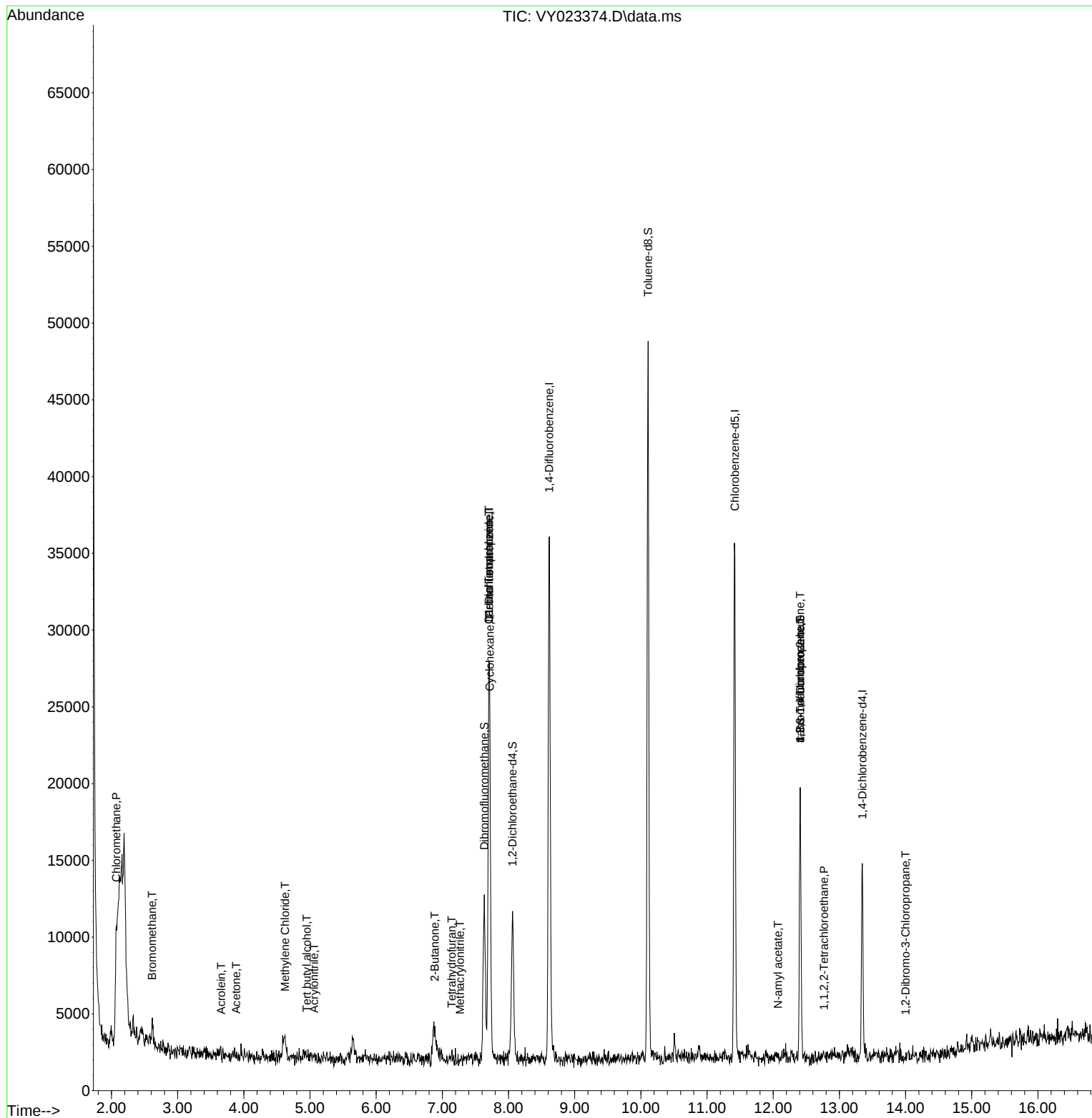
Internal Standards						
1) Pentafluorobenzene	7.707	168	23389	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	32524	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	19810	50.000	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.346	152	3721	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	7061	34.356	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	68.720%		
35) Dibromofluoromethane	7.634	113	7630	38.379	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	76.760%		
50) Toluene-d8	10.109	98	32531	43.334	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	86.660%		
62) 4-Bromofluorobenzene	12.408	95	4839	20.483	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	40.960%		
Target Compounds						Qvalue
3) Chloromethane	2.074	50	1136	4.231	ug/l	95
5) Bromomethane	2.611	94	857	3.103	ug/l	85
11) Tert butyl alcohol	4.952	59	20	1.684	ug/l #	71
13) Acrolein	3.659	56	62	3.088	ug/l #	15
15) Acrylonitrile	5.061	53	71	1.597	ug/l #	18
16) Acetone	3.885	43	304	6.494	ug/l #	41
20) Methylene Chloride	4.622	84	1107	4.420	ug/l #	63
25) 2-Butanone	6.884	43	95	1.649	ug/l #	45
29) Tetrahydrofuran	7.140	42	50	1.463	ug/l #	29
31) Cyclohexane	7.719	56	489	1.360	ug/l #	75
36) 1,1-Dichloropropene	7.701	75	1537	5.428	ug/l #	43
38) Carbon Tetrachloride	7.701	117	2301	7.062	ug/l #	20
41) Methacrylonitrile	7.268	41	129	2.212	ug/l #	21
74) N-amyl acetate	12.072	43	54	1.140	ug/l #	40
75) 1,1,2,2-Tetrachloroethane	12.767	83	61	1.450	ug/l #	26
76) 1,2,3-Trichloropropane	12.408	75	2268	60.188	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.408	75	2268	164.138	ug/l #	14
92) 1,2-Dibromo-3-Chloropr...	13.999	75	18	2.727	ug/l #	1

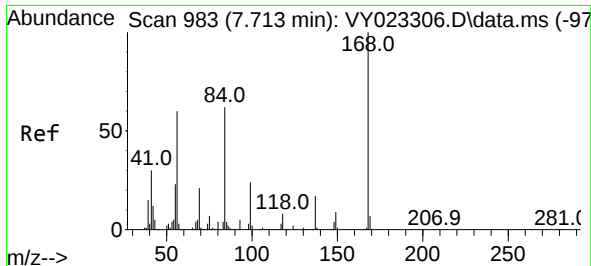
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Sep 10 01:44:33 2025
Response via : Initial Calibration

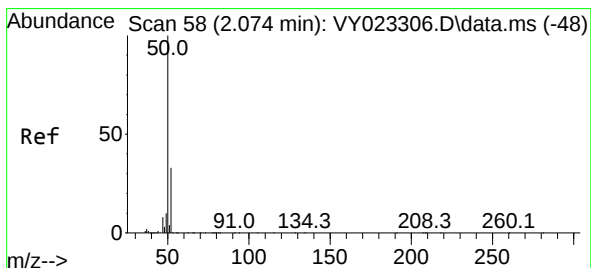
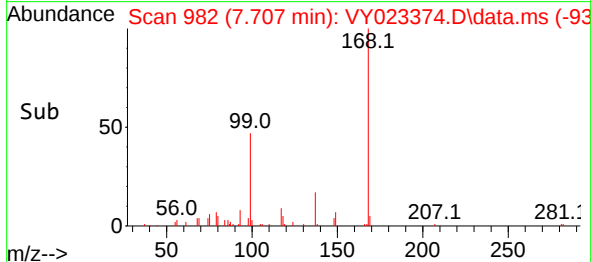
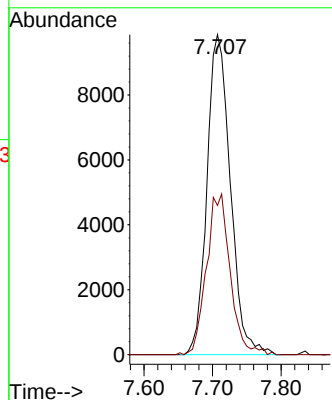
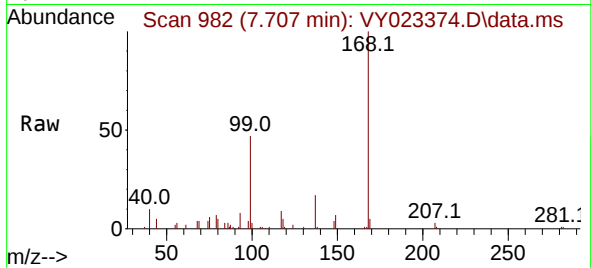




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 983
Delta R.T. 0.000 min
Lab File: VY023374.D
Acq: 25 Sep 2025 15:19

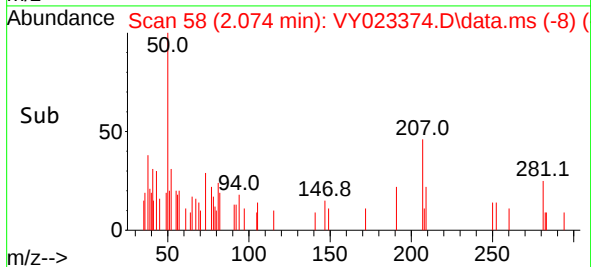
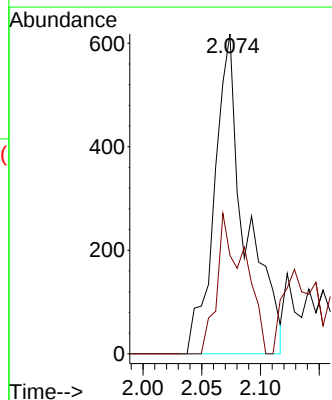
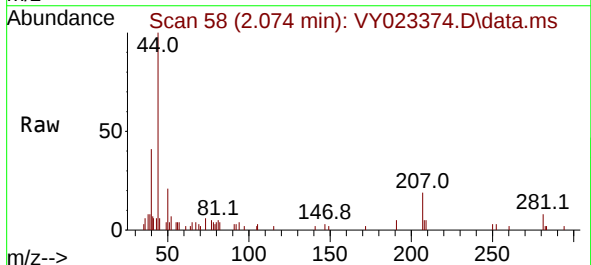
Instrument :
MSVOA_Y
ClientSampleId :

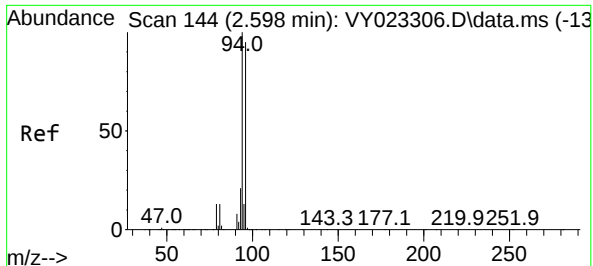
Tgt Ion:168 Resp: 23389
Ion Ratio Lower Upper
168 100
99 46.7 42.8 64.2



#3
Chloromethane
Concen: 4.231 ug/l
RT: 2.074 min Scan# 58
Delta R.T. 0.006 min
Lab File: VY023374.D
Acq: 25 Sep 2025 15:19

Tgt Ion: 50 Resp: 1136
Ion Ratio Lower Upper
50 100
52 30.7 26.7 40.1

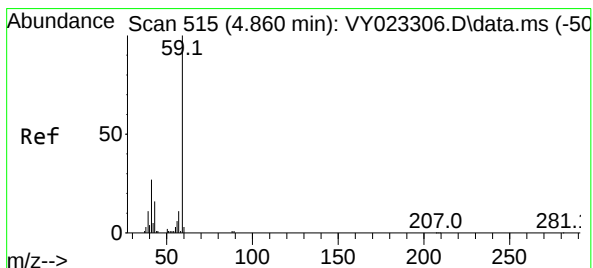
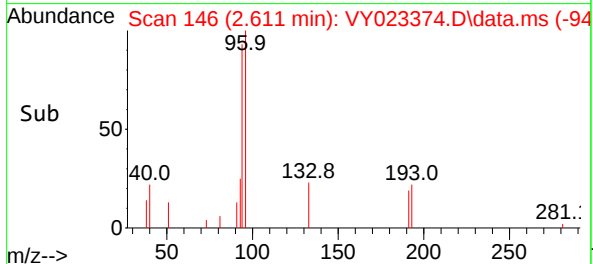
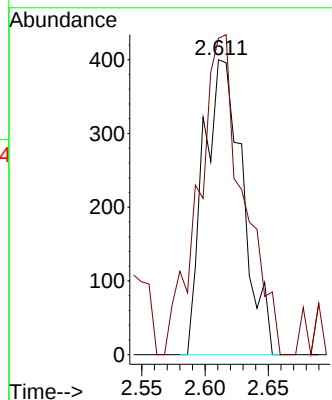
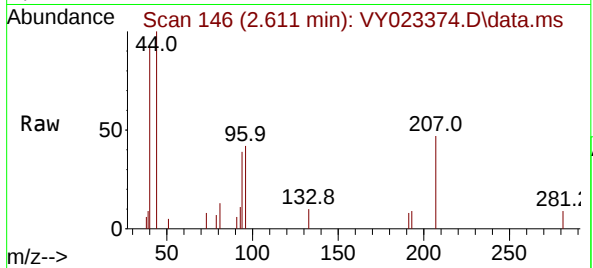




#5
Bromomethane
Concen: 3.103 ug/l
RT: 2.611 min Scan# 144
Delta R.T. 0.018 min
Lab File: VY023374.D
Acq: 25 Sep 2025 15:19

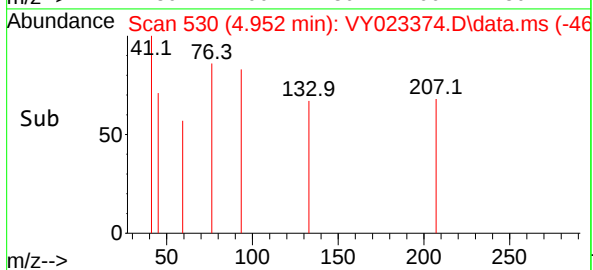
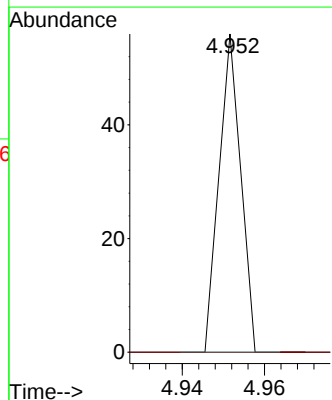
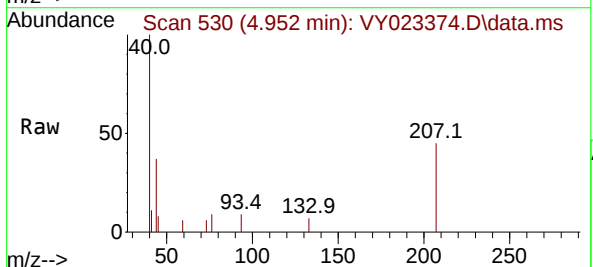
Instrument :
MSVOA_Y
ClientSampleId :

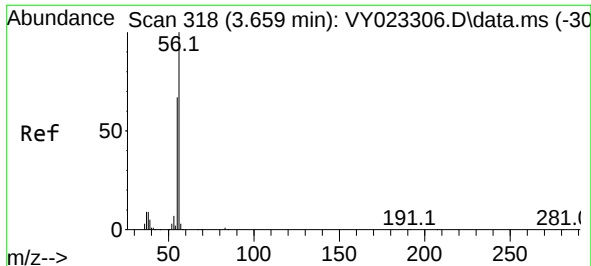
Tgt Ion: 94 Resp: 857
Ion Ratio Lower Upper
94 100
96 107.3 74.6 112.0



#11
Tert butyl alcohol
Concen: 1.684 ug/l
RT: 4.952 min Scan# 530
Delta R.T. 0.092 min
Lab File: VY023374.D
Acq: 25 Sep 2025 15:19

Tgt Ion: 59 Resp: 20
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#

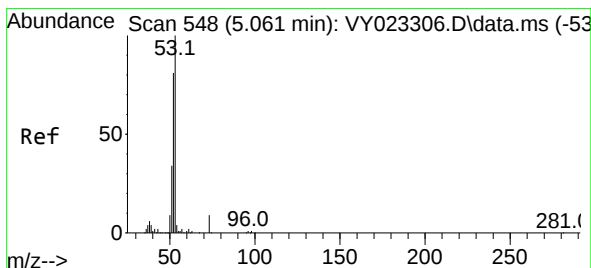
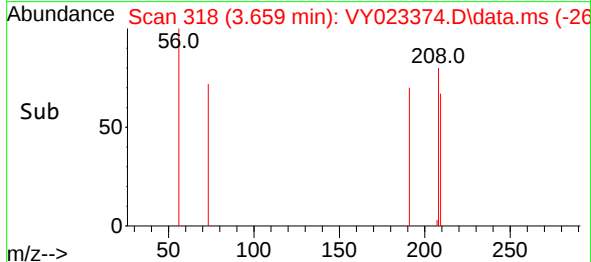
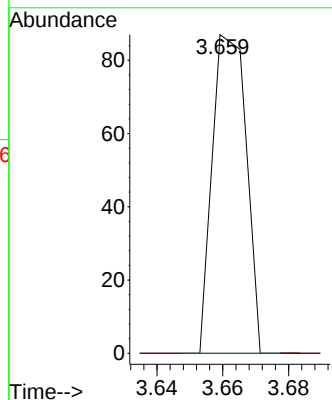
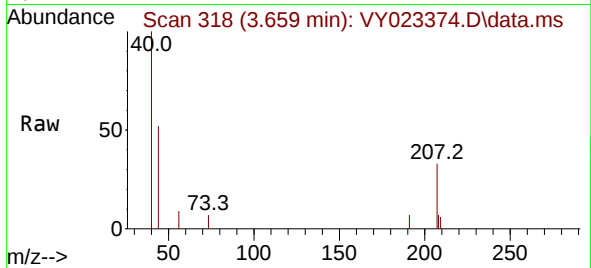




#13
Acrolein
Concen: 3.088 ug/l
RT: 3.659 min Scan# 318
Delta R.T. 0.012 min
Lab File: VY023374.D
Acq: 25 Sep 2025 15:19

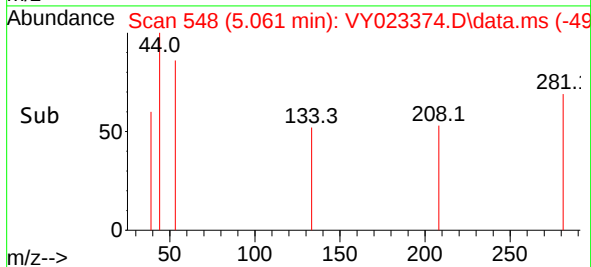
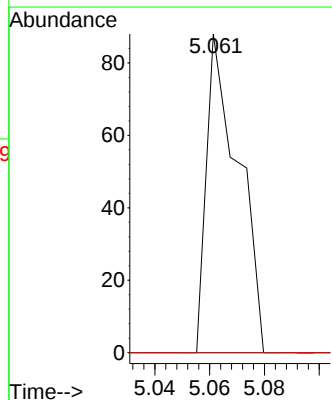
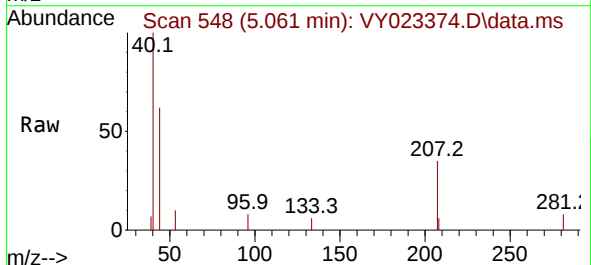
Instrument :
MSVOA_Y
ClientSampleId :

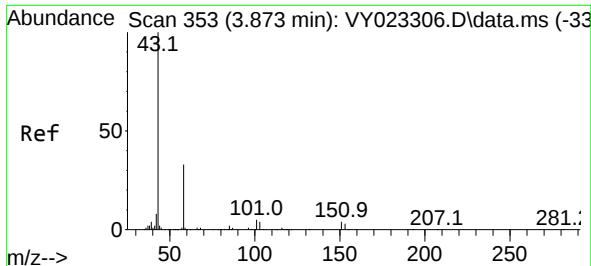
Tgt Ion: 56 Resp: 62
Ion Ratio Lower Upper
56 100
55 0.0 55.2 82.8#



#15
Acrylonitrile
Concen: 1.597 ug/l
RT: 5.061 min Scan# 548
Delta R.T. 0.012 min
Lab File: VY023374.D
Acq: 25 Sep 2025 15:19

Tgt Ion: 53 Resp: 71
Ion Ratio Lower Upper
53 100
52 0.0 65.3 97.9#
51 0.0 29.5 44.3#

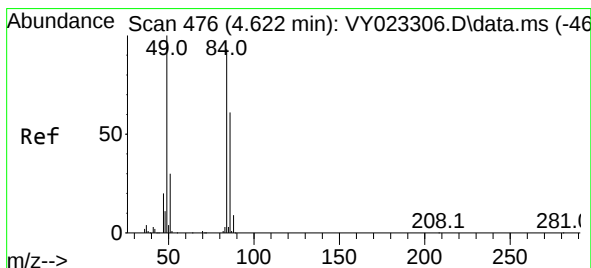
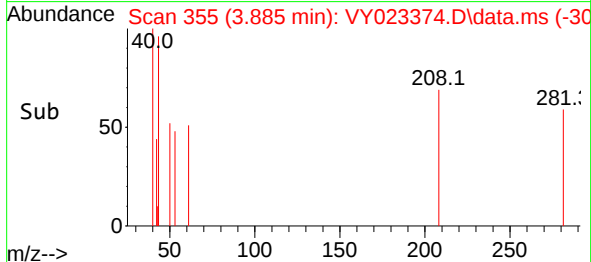
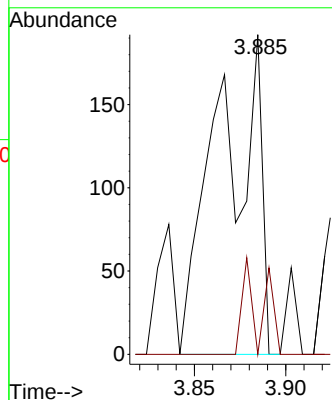
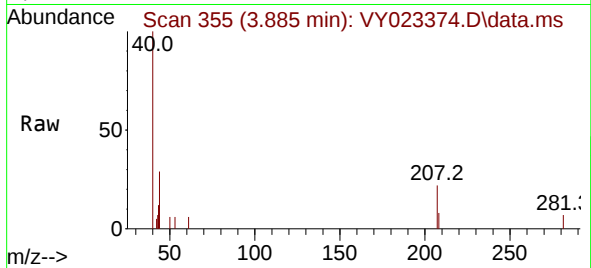




#16
Acetone
Concen: 6.494 ug/l
RT: 3.885 min Scan# 31
Delta R.T. 0.024 min
Lab File: VY023374.D
Acq: 25 Sep 2025 15:19

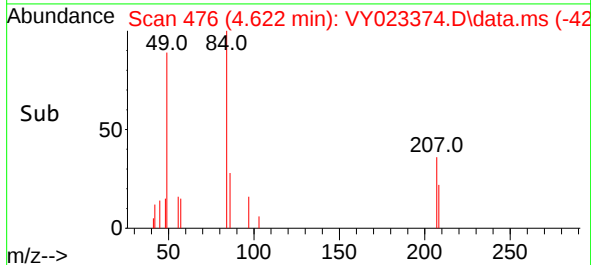
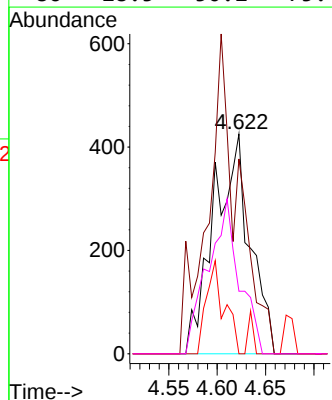
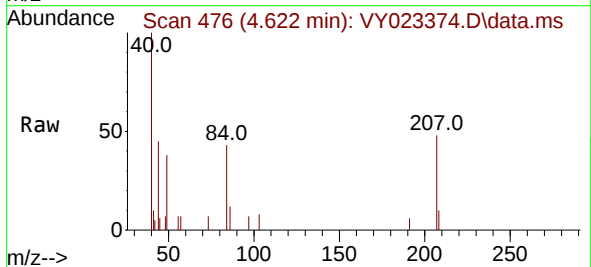
Instrument :
MSVOA_Y
ClientSampleId :

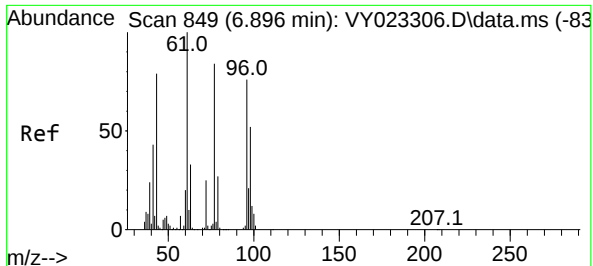
Tgt Ion: 43 Resp: 304
Ion Ratio Lower Upper
43 100
58 0.0 27.1 40.7#



#20
Methylene Chloride
Concen: 4.420 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.018 min
Lab File: VY023374.D
Acq: 25 Sep 2025 15:19

Tgt Ion: 84 Resp: 1107
Ion Ratio Lower Upper
84 100
49 88.7 93.0 139.6#
51 0.0 29.0 43.4#
86 28.5 50.2 75.4#





#25

2-Butanone

Concen: 1.649 ug/l

RT: 6.884 min Scan# 84

Delta R.T. 0.000 min

Lab File: VY023374.D

Acq: 25 Sep 2025 15:19

Instrument :

MSVOA_Y

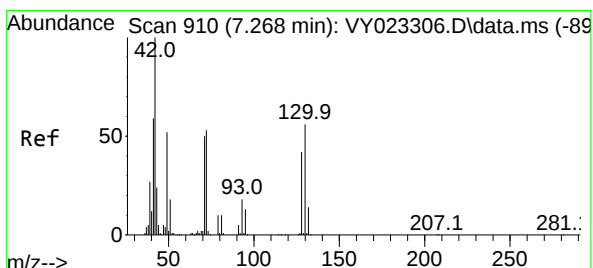
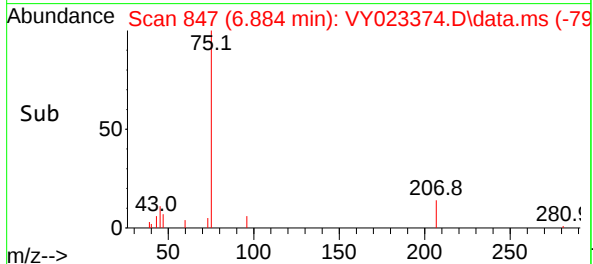
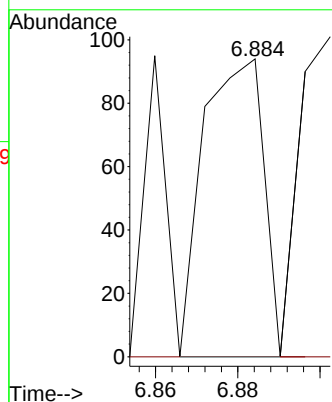
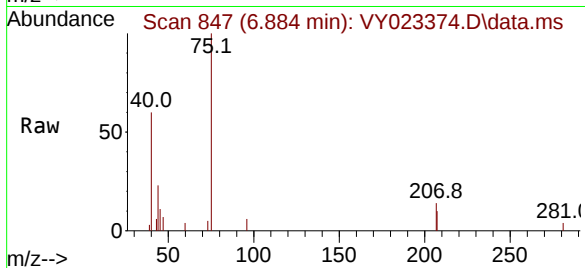
ClientSampleId :

Tgt Ion: 43 Resp: 95

Ion Ratio Lower Upper

43 100

72 0.0 23.5 35.3#



#29

Tetrahydrofuran

Concen: 1.463 ug/l

RT: 7.140 min Scan# 889

Delta R.T. -0.116 min

Lab File: VY023374.D

Acq: 25 Sep 2025 15:19

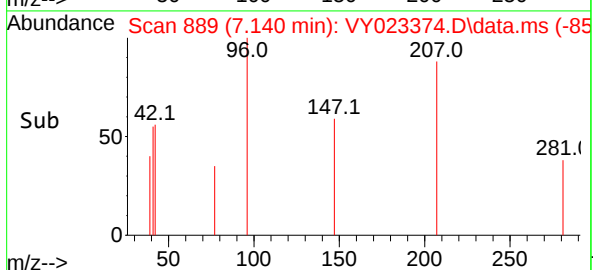
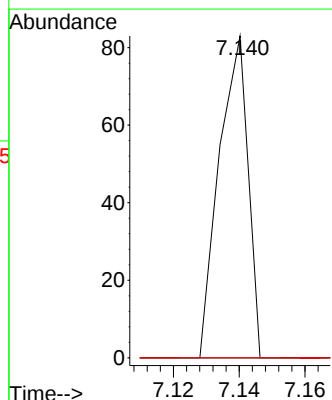
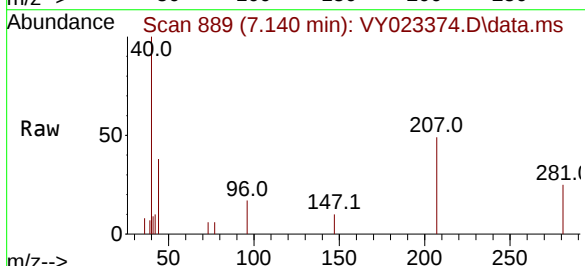
Tgt Ion: 42 Resp: 50

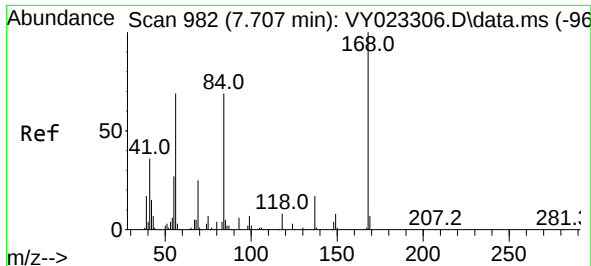
Ion Ratio Lower Upper

42 100

72 0.0 39.4 59.2#

71 0.0 36.5 54.7#

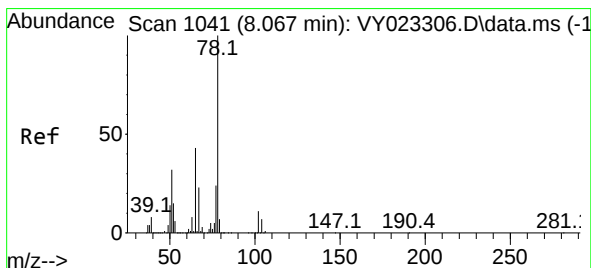
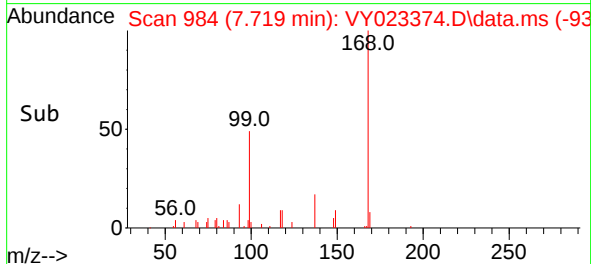
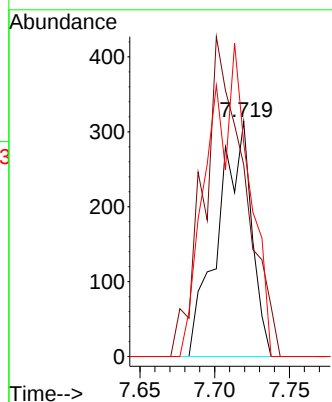
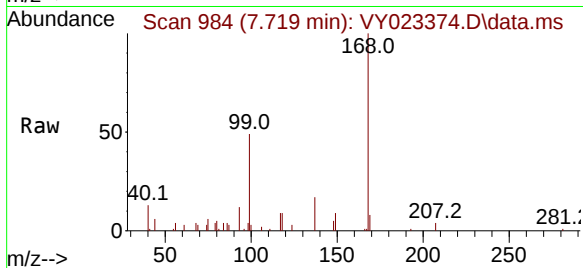




#31
Cyclohexane
Concen: 1.360 ug/l
RT: 7.719 min Scan# 91
Delta R.T. 0.024 min
Lab File: VY023374.D
Acq: 25 Sep 2025 15:19

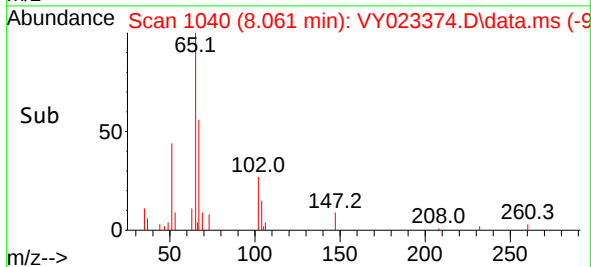
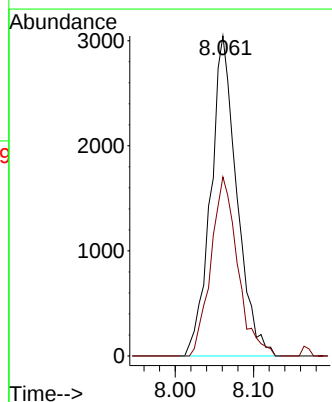
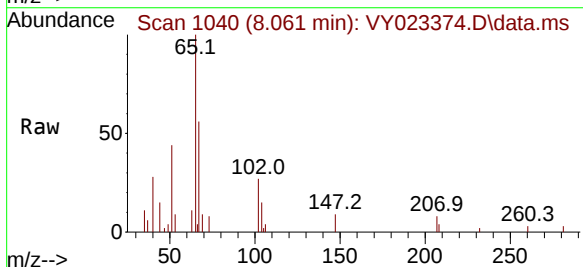
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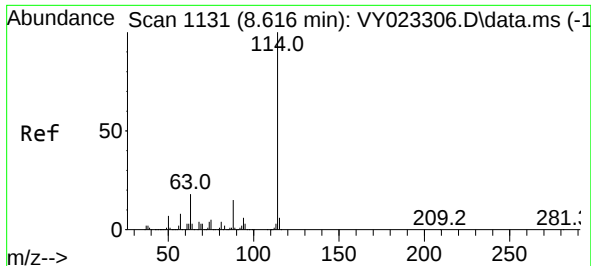
Tgt Ion: 56 Resp: 489
Ion Ratio Lower Upper
56 100
69 81.5 28.2 42.2#
84 90.8 76.6 114.8



#33
1,2-Dichloroethane-d4
Concen: 34.356 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY023374.D
Acq: 25 Sep 2025 15:19

Tgt Ion: 65 Resp: 7061
Ion Ratio Lower Upper
65 100
67 57.2 0.0 106.8

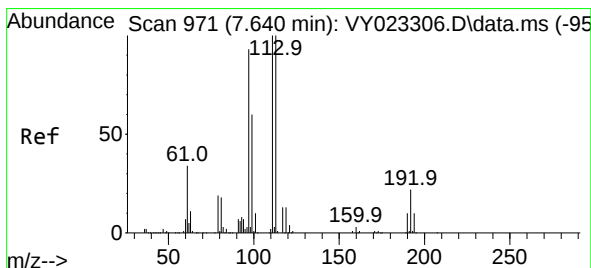
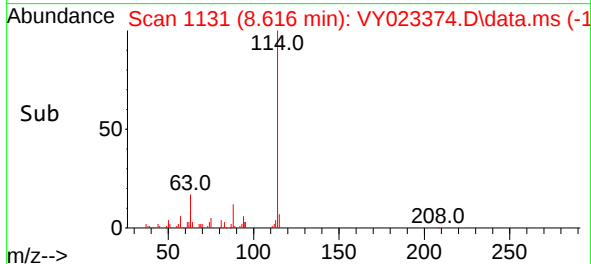
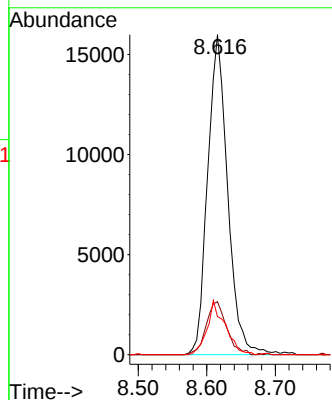
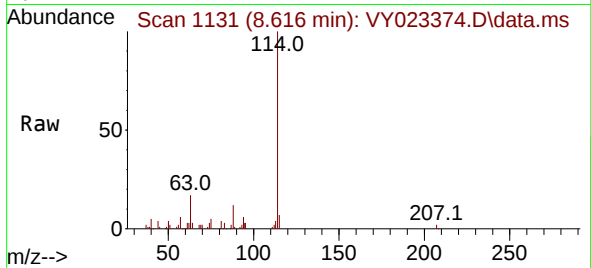




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY023374.D
Acq: 25 Sep 2025 15:19

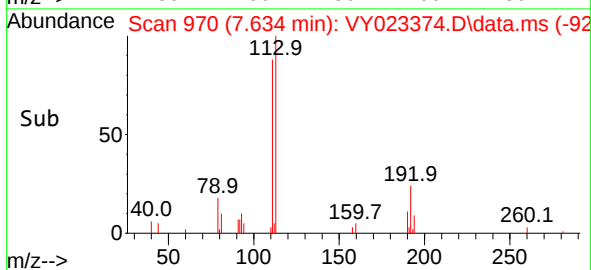
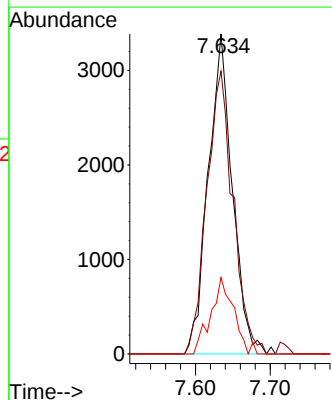
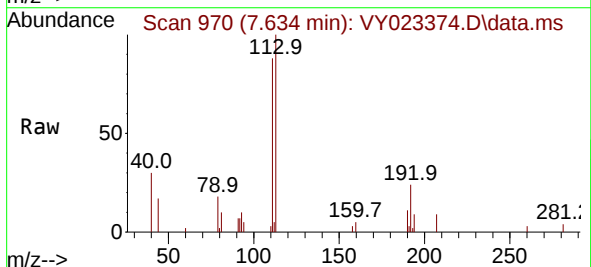
Instrument :
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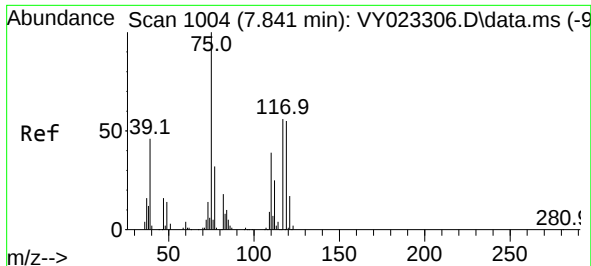
Tgt Ion:	114	Resp:	32524
Ion Ratio	Lower	Upper	
114	100		
63	16.6	0.0	38.4
88	11.9	0.0	30.0



#35
Dibromofluoromethane
Concen: 38.379 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.006 min
Lab File: VY023374.D
Acq: 25 Sep 2025 15:19

Tgt Ion:	113	Resp:	7630
Ion Ratio	Lower	Upper	
113	100		
111	95.9	81.1	121.7
192	22.6	16.2	24.4





#36

1,1-Dichloropropene

Concen: 5.428 ug/l

RT: 7.701 min Scan# 981

Delta R.T. -0.128 min

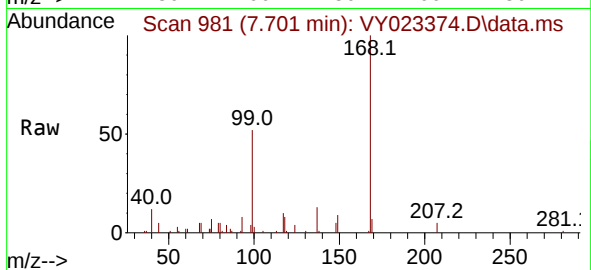
Lab File: VY023374.D

Acq: 25 Sep 2025 15:19

Instrument :

MSVOA_Y

ClientSampleId :



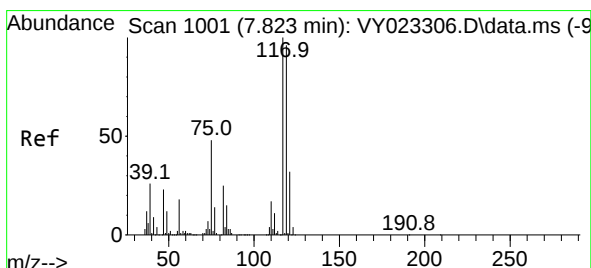
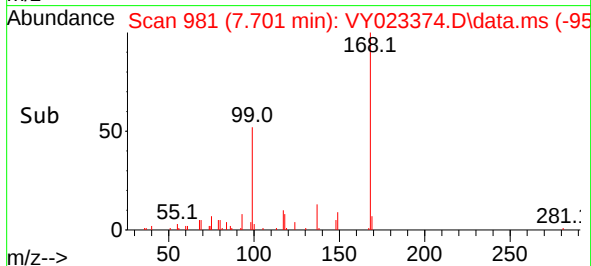
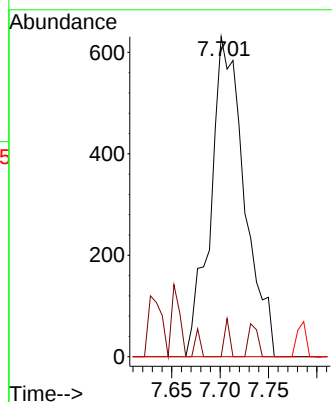
Tgt Ion: 75 Resp: 1537

Ion Ratio Lower Upper

75 100

110 1.8 18.1 54.4#

77 0.0 24.6 37.0#



#38

Carbon Tetrachloride

Concen: 7.062 ug/l

RT: 7.701 min Scan# 981

Delta R.T. -0.116 min

Lab File: VY023374.D

Acq: 25 Sep 2025 15:19

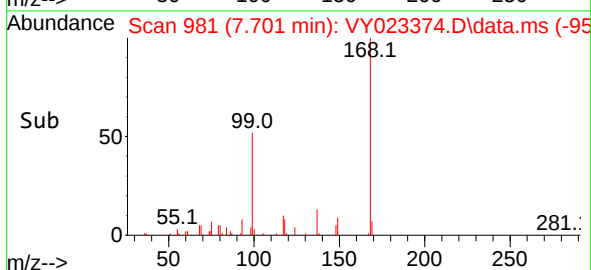
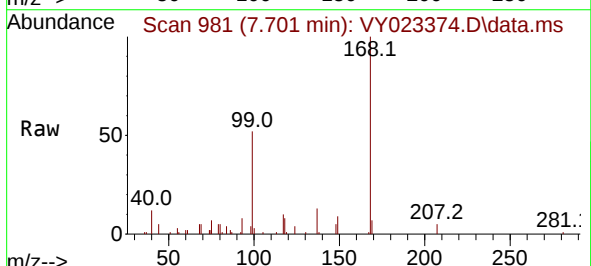
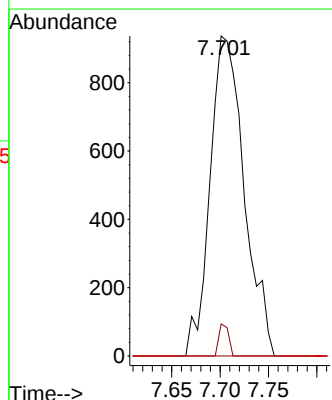
Tgt Ion: 117 Resp: 2301

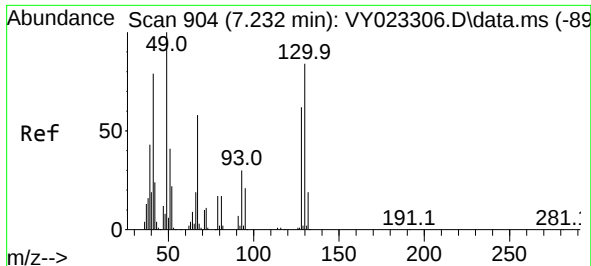
Ion Ratio Lower Upper

117 100

119 10.0 75.6 113.4#

121 0.0 25.8 38.8#

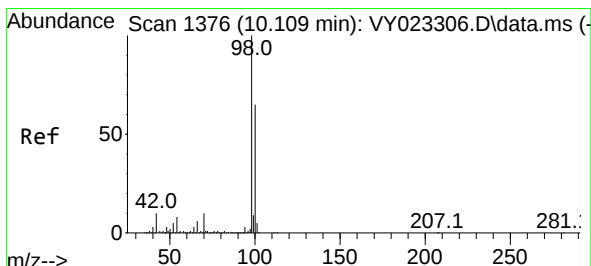
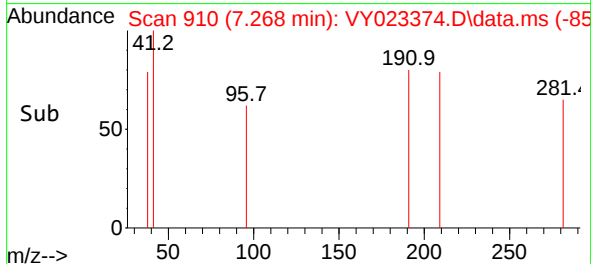
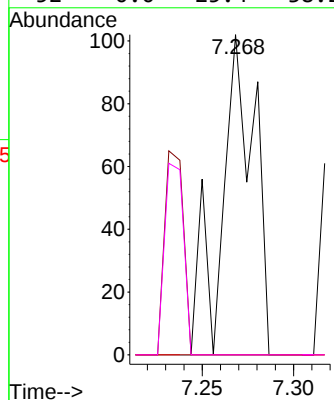
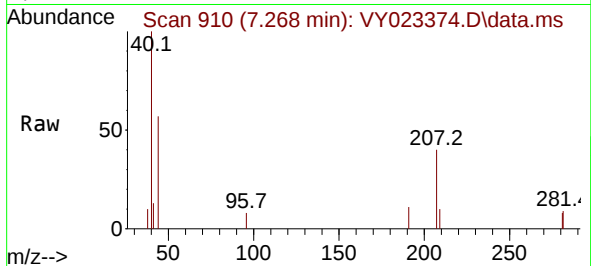




#41
Methacrylonitrile
Concen: 2.212 ug/l
RT: 7.268 min Scan# 910
Delta R.T. 0.049 min
Lab File: VY023374.D
Acq: 25 Sep 2025 15:19

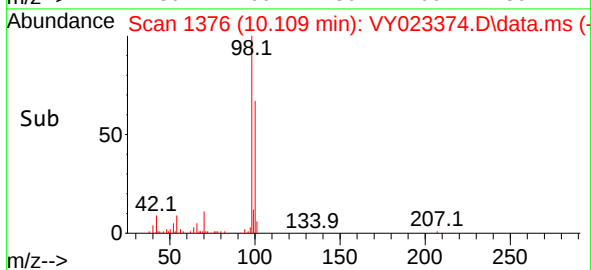
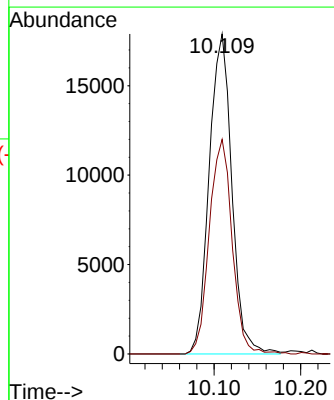
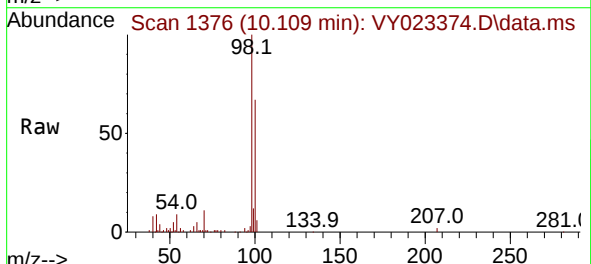
Instrument :
MSVOA_Y
ClientSampleId :

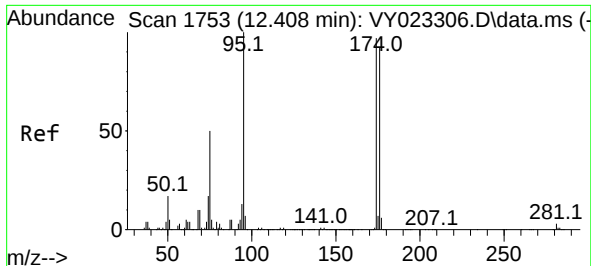
Tgt Ion: 41 Resp: 129
Ion Ratio Lower Upper
41 100
39 0.0 43.4 65.2#
67 0.0 63.6 95.4#
52 0.0 25.4 38.2#



#50
Toluene-d8
Concen: 43.334 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023374.D
Acq: 25 Sep 2025 15:19

Tgt Ion: 98 Resp: 32531
Ion Ratio Lower Upper
98 100
100 67.5 52.3 78.5

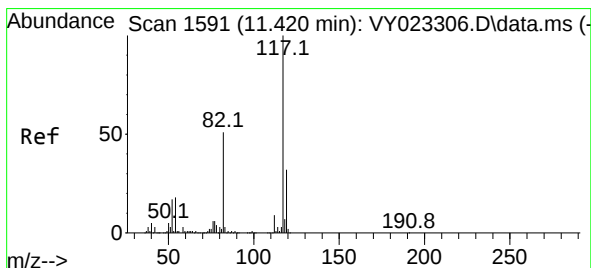
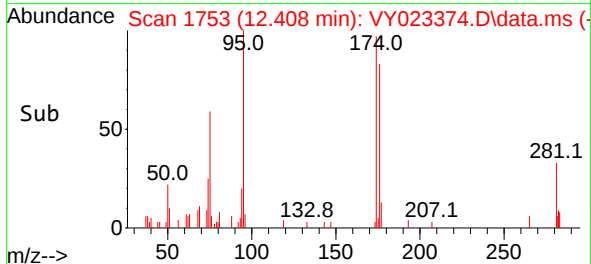
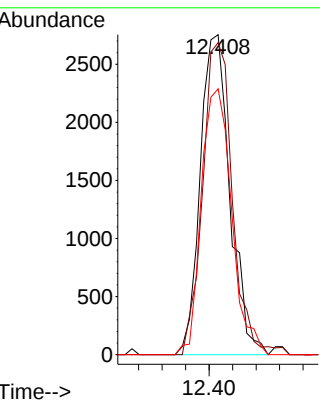
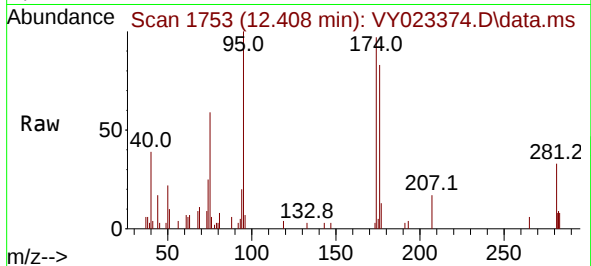




#62
4-Bromofluorobenzene
Concen: 20.483 ug/l
RT: 12.408 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023374.D
Acq: 25 Sep 2025 15:19

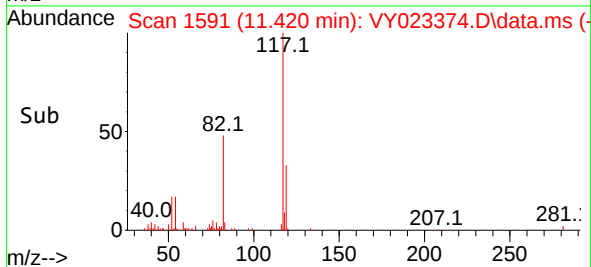
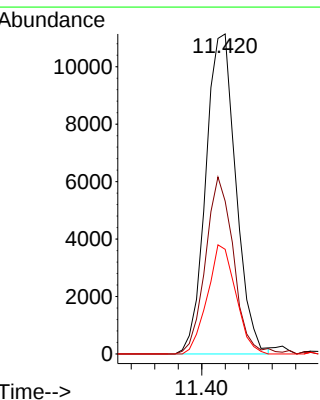
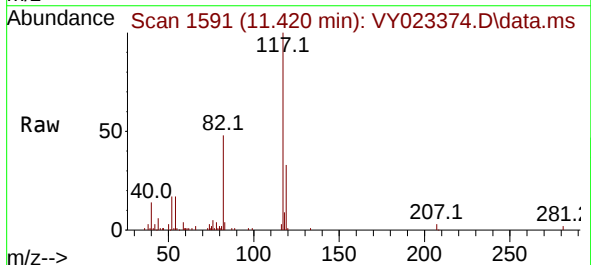
Instrument :
MSVOA_Y
ClientSampleId :

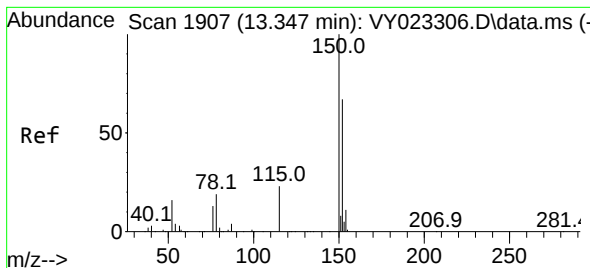
Tgt Ion:	95	Resp:	4839
Ion	Ratio	Lower	Upper
95	100		
174	97.9	0.0	171.6
176	84.8	0.0	167.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. 0.012 min
Lab File: VY023374.D
Acq: 25 Sep 2025 15:19

Tgt Ion:	117	Resp:	19810
Ion	Ratio	Lower	Upper
117	100		
82	47.8	43.4	65.0
119	32.7	25.6	38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. 0.006 min

Lab File: VY023374.D

Acq: 25 Sep 2025 15:19

Instrument :

MSVOA_Y

ClientSampleId :

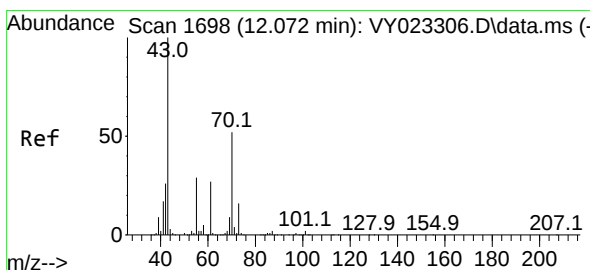
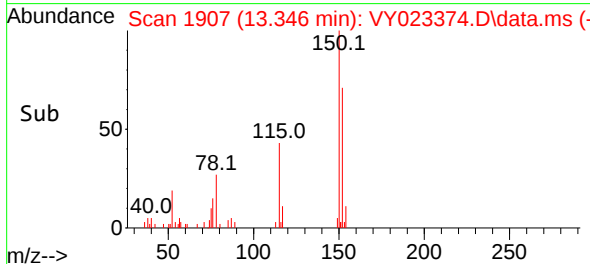
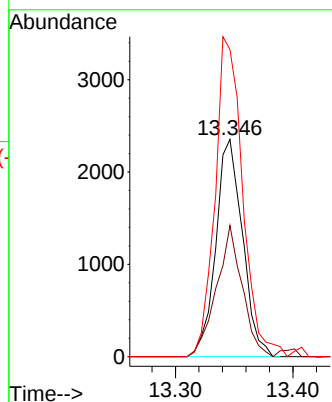
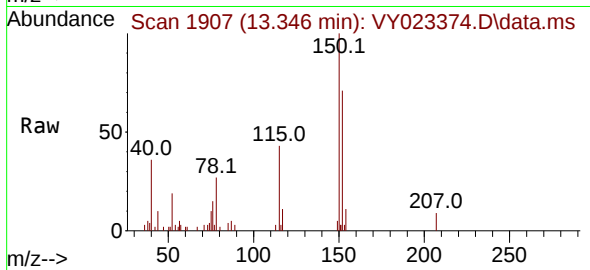
Tgt Ion:152 Resp: 3721

Ion Ratio Lower Upper

152 100

115 58.1 28.2 84.6

150 151.8 0.0 348.0



#74

N-ethyl acetate

Concen: 1.140 ug/l

RT: 12.072 min Scan# 1698

Delta R.T. 0.006 min

Lab File: VY023374.D

Acq: 25 Sep 2025 15:19

Tgt Ion: 43 Resp: 54

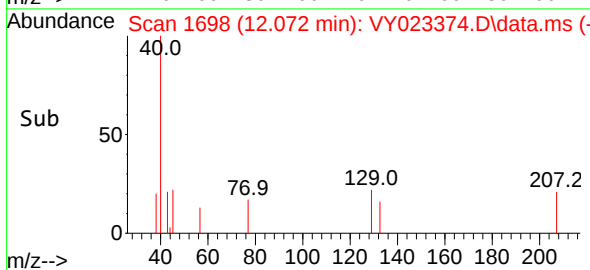
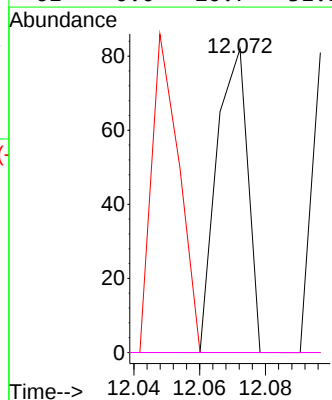
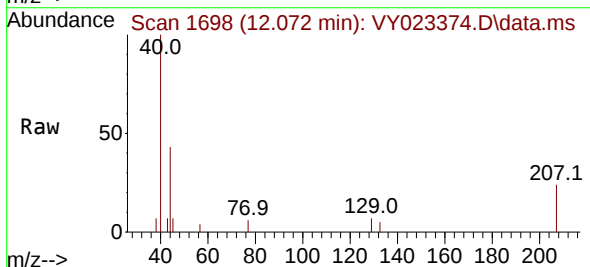
Ion Ratio Lower Upper

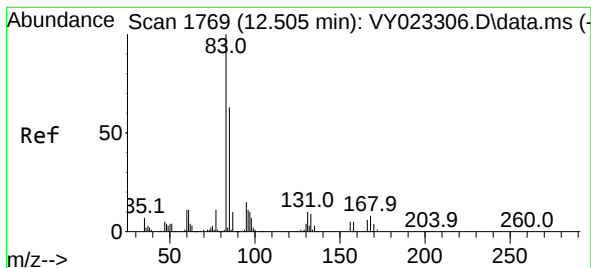
43 100

70 0.0 37.5 56.3#

55 0.0 20.7 31.1#

61 0.0 20.7 31.1#

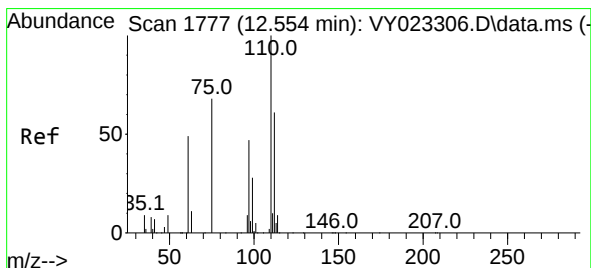
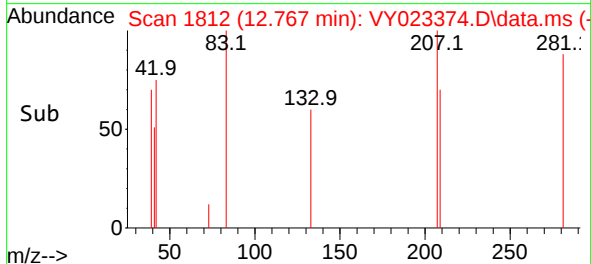
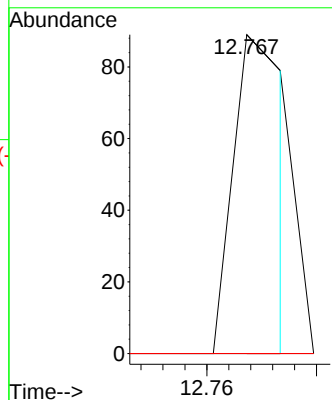
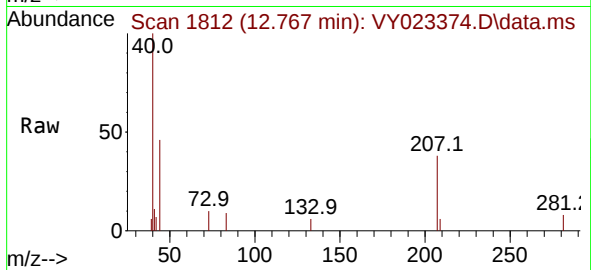




#75
 1,1,2,2-Tetrachloroethane
 Concen: 1.450 ug/l
 RT: 12.767 min Scan# 1753
 Delta R.T. 0.268 min
 Lab File: VY023374.D
 Acq: 25 Sep 2025 15:19

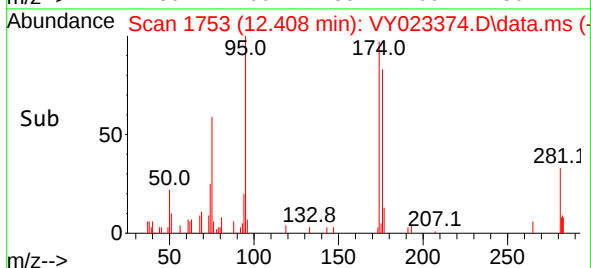
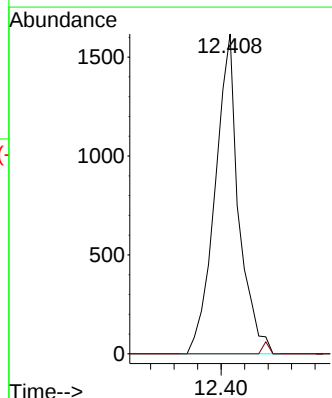
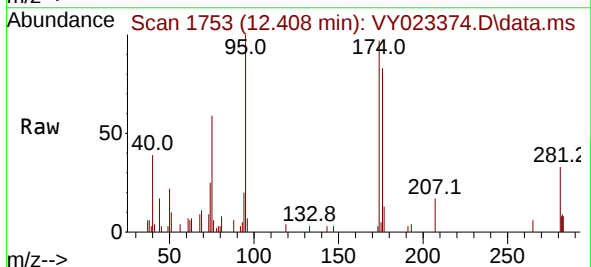
Instrument :
 MSVOA_Y
 ClientSampleId :

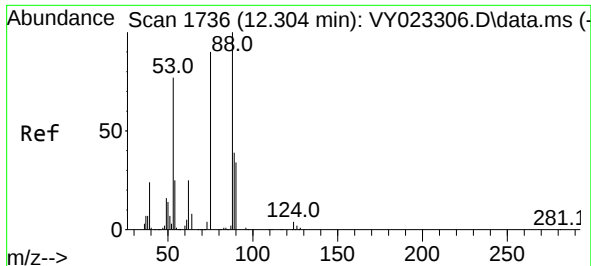
Tgt Ion: 83 Resp: 61
 Ion Ratio Lower Upper
 83 100
 131 0.0 5.1 15.3#
 85 0.0 31.8 95.3#



#76
 1,2,3-Trichloropropane
 Concen: 60.188 ug/l
 RT: 12.408 min Scan# 1753
 Delta R.T. -0.140 min
 Lab File: VY023374.D
 Acq: 25 Sep 2025 15:19

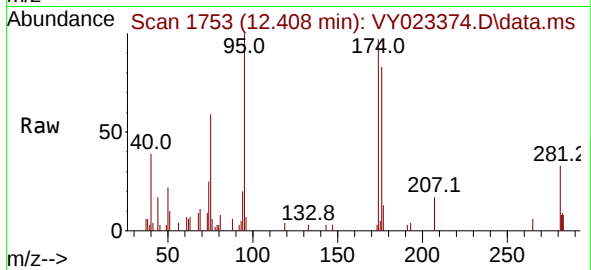
Tgt Ion: 75 Resp: 2268
 Ion Ratio Lower Upper
 75 100
 77 0.0 0.0 0.0



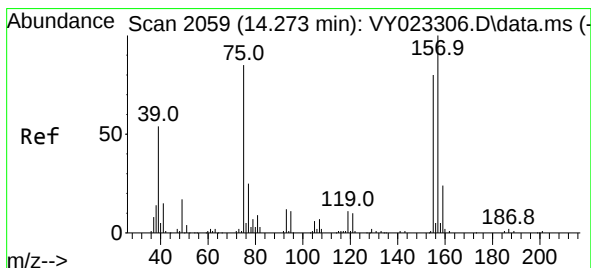
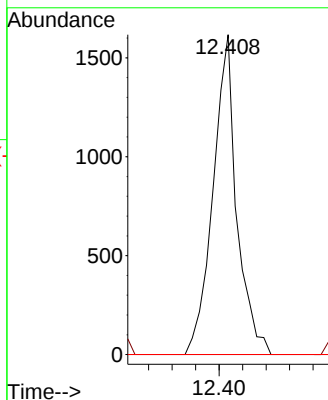
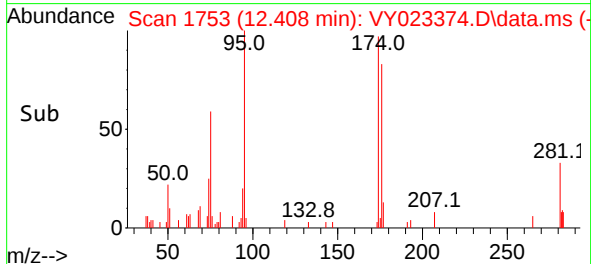


#81
 trans-1,4-Dichloro-2-butene
 Concen: 164.138 ug/l
 RT: 12.408 min Scan# 11
 Delta R.T. 0.110 min
 Lab File: VY023374.D
 Acq: 25 Sep 2025 15:19

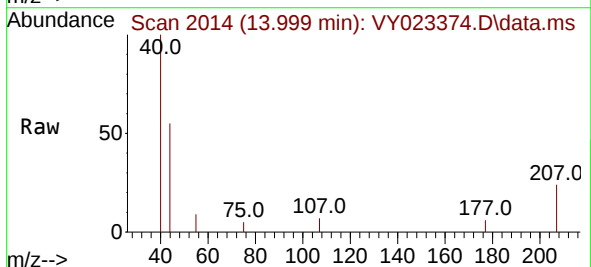
Instrument :
 MSVOA_Y
 ClientSampleId :



Tgt Ion: 75 Resp: 2268
 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: 2.727 ug/l
 RT: 13.999 min Scan# 2014
 Delta R.T. -0.268 min
 Lab File: VY023374.D
 Acq: 25 Sep 2025 15:19



Tgt Ion: 75 Resp: 18
 Ion Ratio Lower Upper
 75 100
 155 0.0 43.9 131.6#
 157 0.0 57.2 171.6#

