

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110325\
 Data File : VY023657.D
 Acq On : 03 Nov 2025 14:37
 Operator : SY/MD
 Sample : Q3503-03
 Misc : 3.37g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Nov 04 01:34:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

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

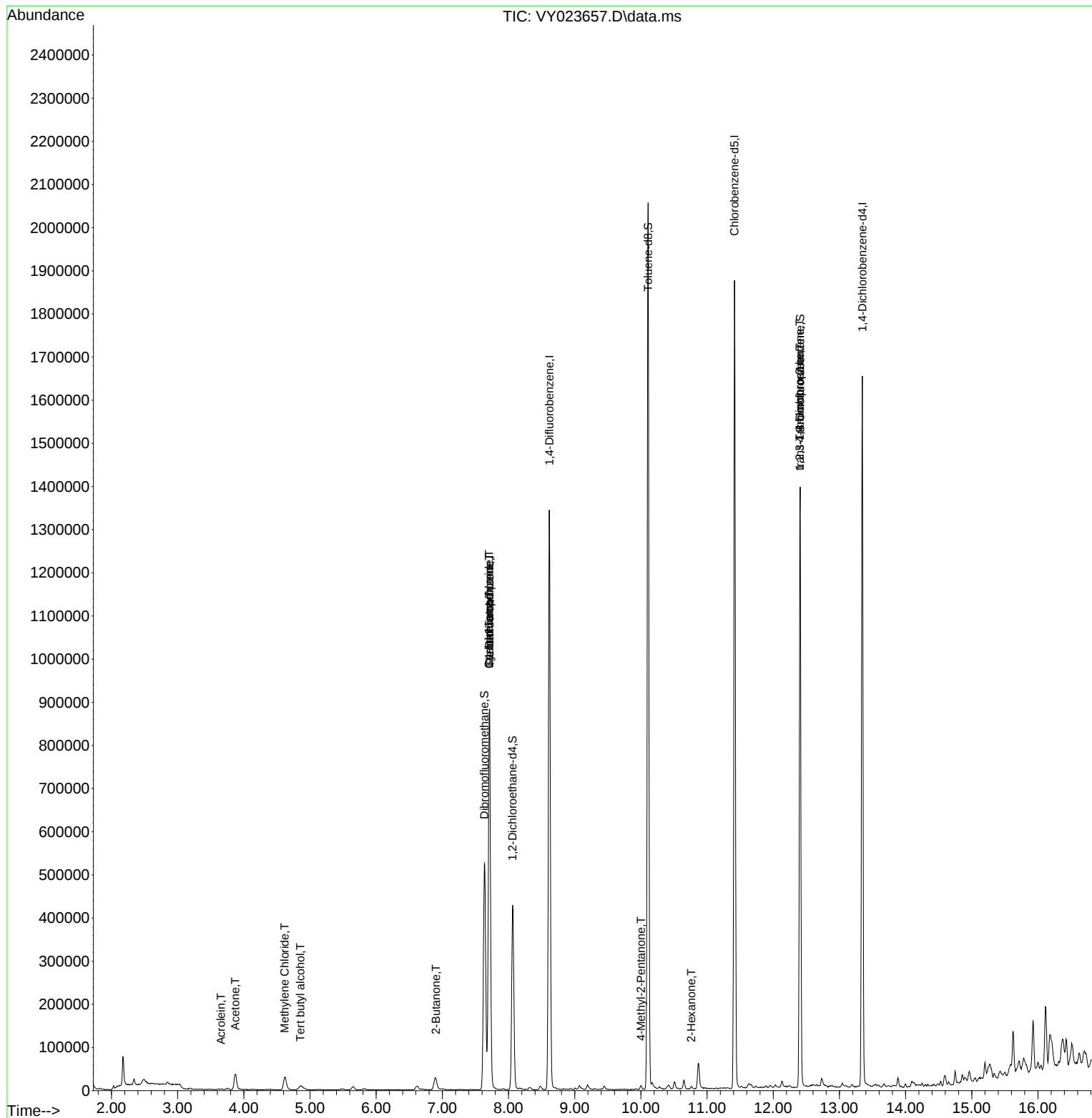
Internal Standards						
1) Pentafluorobenzene	7.713	168	752255	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1234030	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	1053828	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	446564	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	335361	53.313	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 106.620%	
35) Dibromofluoromethane	7.634	113	383161	50.532	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 101.060%	
50) Toluene-d8	10.109	98	1382145	48.946	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 97.900%	
62) 4-Bromofluorobenzene	12.408	95	419666	45.015	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 90.040%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.854	59	17721	37.867	ug/l	100
13) Acrolein	3.653	56	1799	2.721	ug/l #	82
16) Acetone	3.873	43	63923	42.685	ug/l	94
20) Methylene Chloride	4.616	84	24007	2.965	ug/l	97
25) 2-Butanone	6.903	43	17260	9.441	ug/l	92
31) Cyclohexane	7.707	56	12323	1.178	ug/l #	5
36) 1,1-Dichloropropene	7.707	75	48426	4.824	ug/l #	48
38) Carbon Tetrachloride	7.707	117	67960	5.583	ug/l #	16
51) 4-Methyl-2-Pentanone	10.000	43	5571	1.360	ug/l #	85
59) 2-Hexanone	10.762	43	3752	1.281	ug/l	91
76) 1,2,3-Trichloropropane	12.402	75	203428	51.633	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.402	75	203428	126.614	ug/l #	15

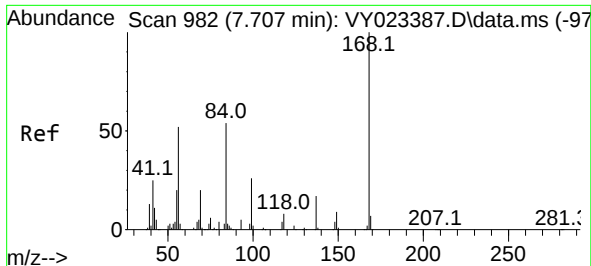
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 04 01:34:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
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QLast Update : Wed Oct 08 05:12:50 2025
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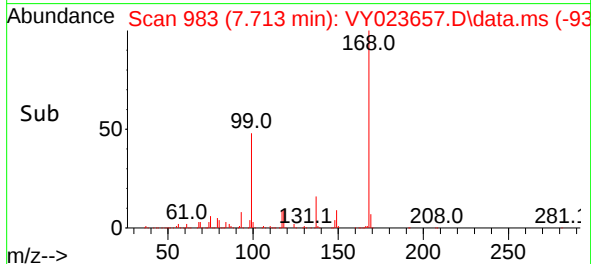
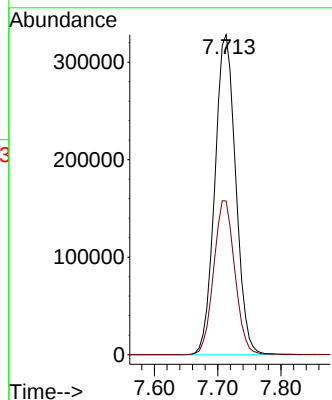
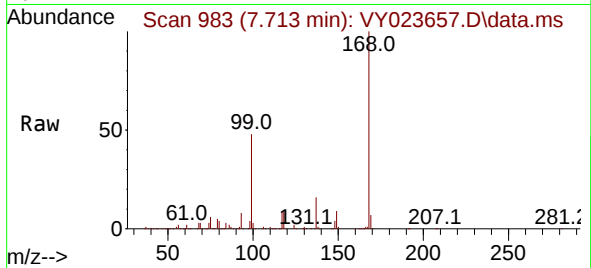




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023657.D
Acq: 03 Nov 2025 14:37

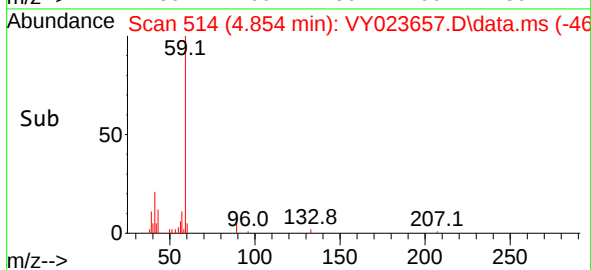
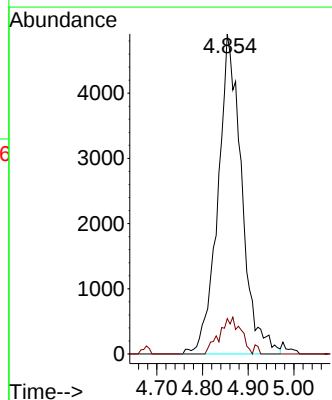
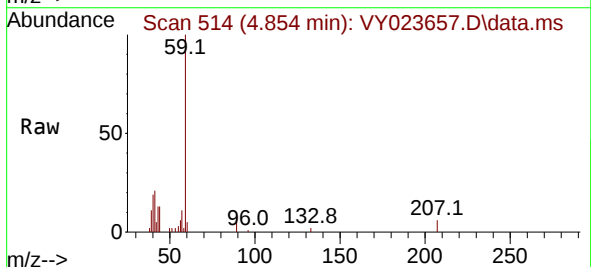
Instrument :
MSVOA_Y
ClientSampleId :

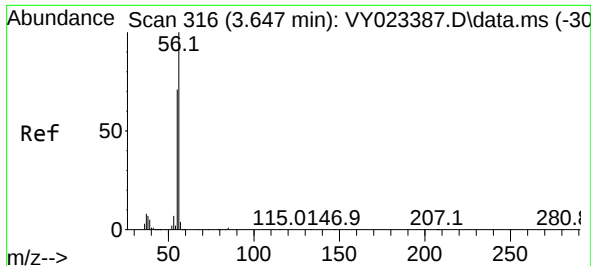
Tgt Ion:168 Resp: 752255
Ion Ratio Lower Upper
168 100
99 48.0 39.7 59.5



#11
Tert butyl alcohol
Concen: 37.867 ug/l
RT: 4.854 min Scan# 514
Delta R.T. -0.006 min
Lab File: VY023657.D
Acq: 03 Nov 2025 14:37

Tgt Ion: 59 Resp: 17721
Ion Ratio Lower Upper
59 100
57 10.3 8.3 12.5

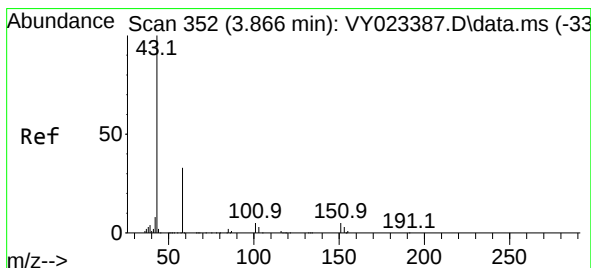
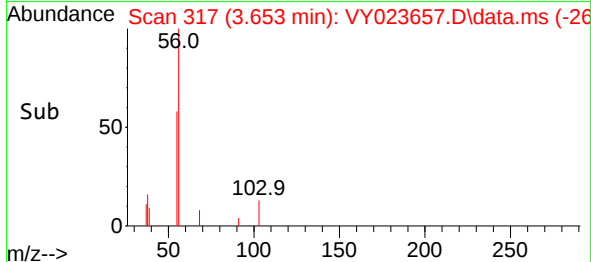
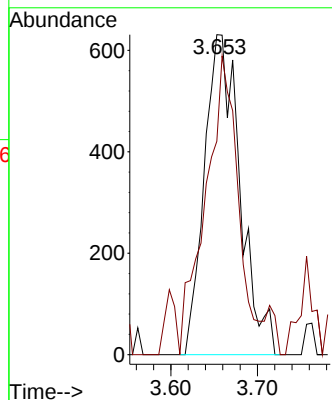
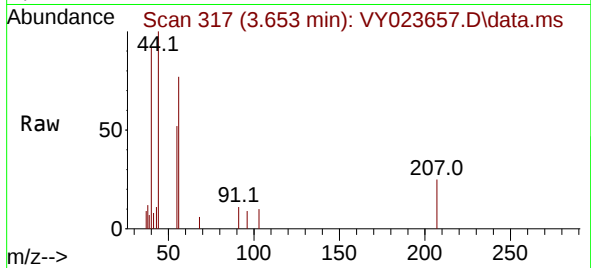




#13
Acrolein
Concen: 2.721 ug/l
RT: 3.653 min Scan# 316
Delta R.T. 0.006 min
Lab File: VY023657.D
Acq: 03 Nov 2025 14:37

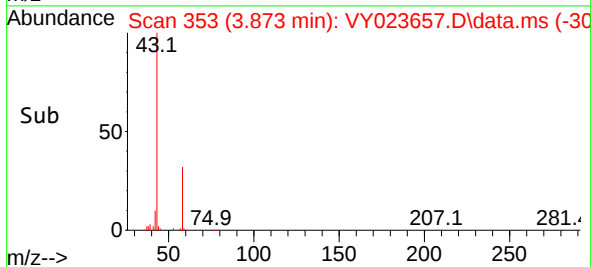
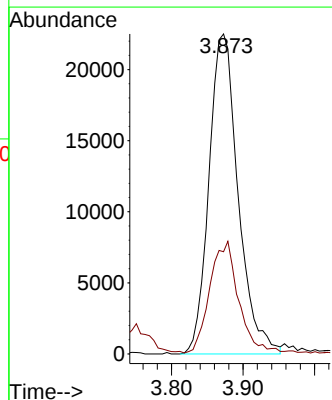
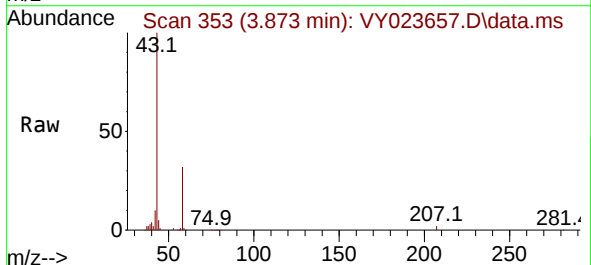
Instrument :
MSVOA_Y
ClientSampleId :

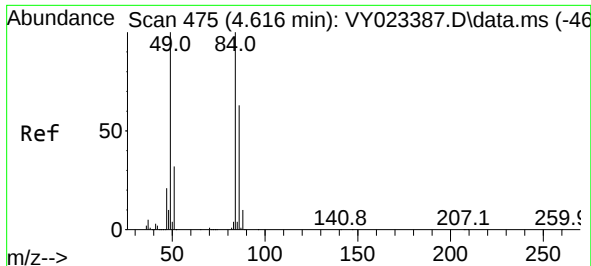
Tgt Ion: 56 Resp: 1799
Ion Ratio Lower Upper
56 100
55 84.9 56.1 84.1#



#16
Acetone
Concen: 42.685 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY023657.D
Acq: 03 Nov 2025 14:37

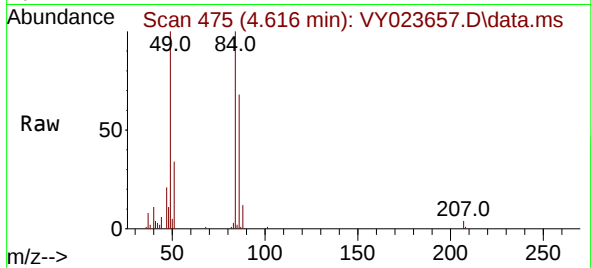
Tgt Ion: 43 Resp: 63923
Ion Ratio Lower Upper
43 100
58 31.2 27.7 41.5



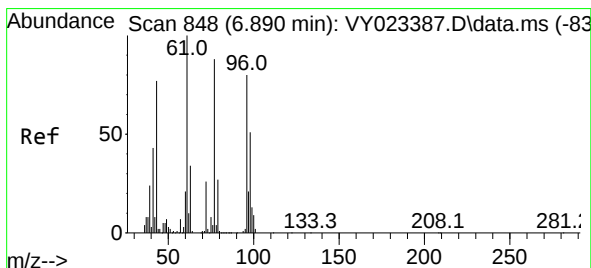
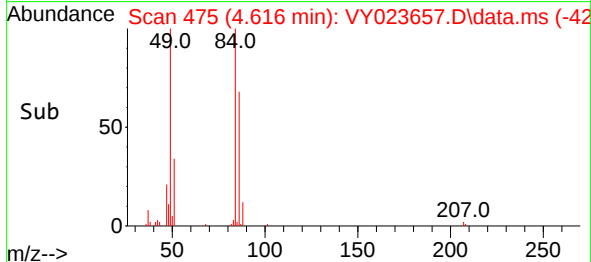
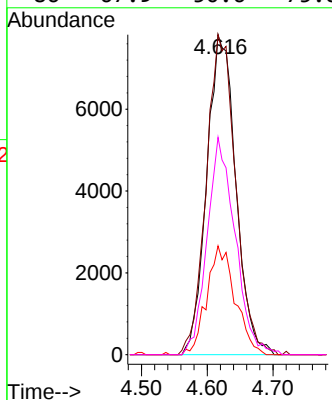


#20
Methylene Chloride
Concen: 2.965 ug/l
RT: 4.616 min Scan# 41
Delta R.T. 0.000 min
Lab File: VY023657.D
Acq: 03 Nov 2025 14:37

Instrument :
MSVOA_Y
ClientSampleId :

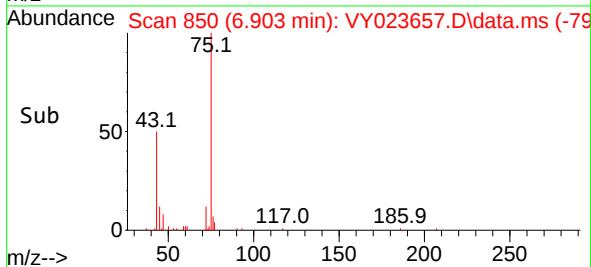
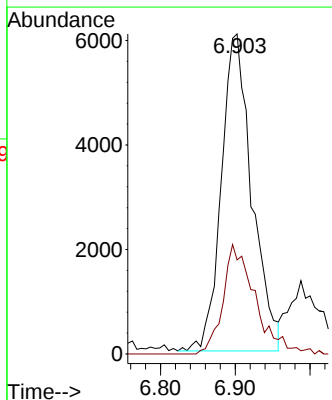
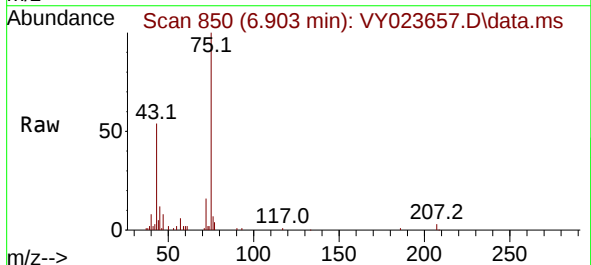


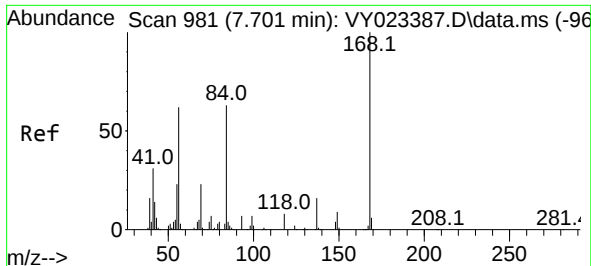
Tgt Ion:	84	Resp:	24007
Ion	Ratio	Lower	Upper
84	100		
49	100.0	80.2	120.4
51	34.0	25.9	38.9
86	67.9	50.6	75.8



#25
2-Butanone
Concen: 9.441 ug/l
RT: 6.903 min Scan# 850
Delta R.T. 0.012 min
Lab File: VY023657.D
Acq: 03 Nov 2025 14:37

Tgt Ion:	43	Resp:	17260
Ion	Ratio	Lower	Upper
43	100		
72	29.7	27.4	41.2

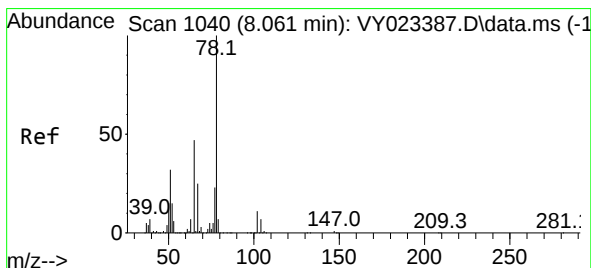
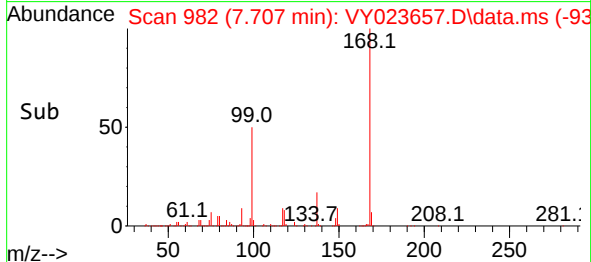
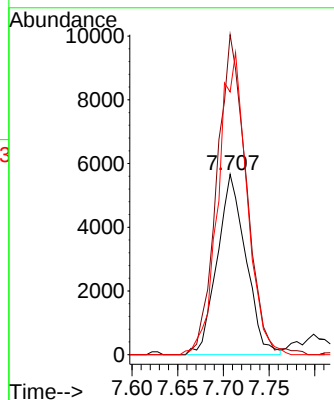
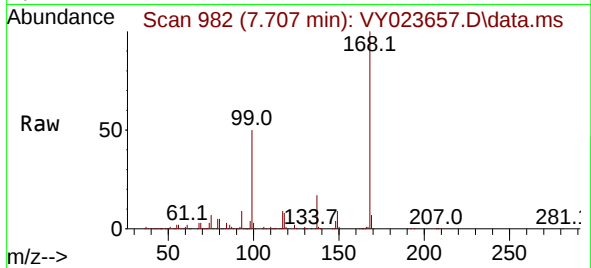




#31
Cyclohexane
Concen: 1.178 ug/l
RT: 7.707 min Scan# 981
Delta R.T. 0.006 min
Lab File: VY023657.D
Acq: 03 Nov 2025 14:37

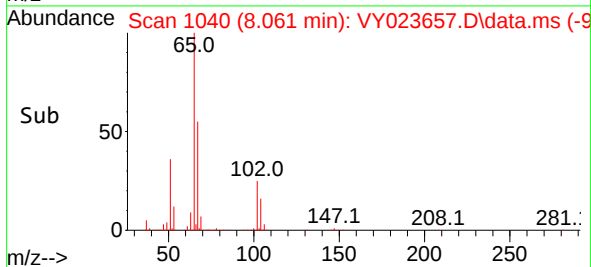
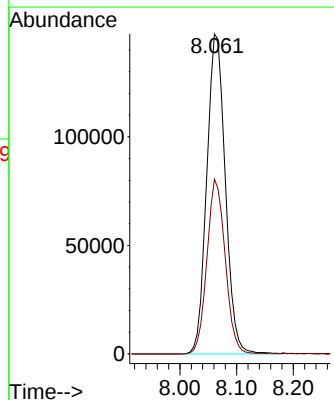
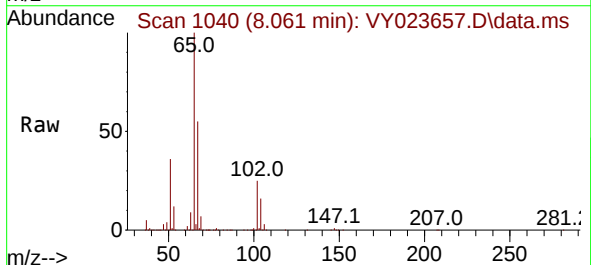
Instrument :
MSVOA_Y
ClientSampleId :

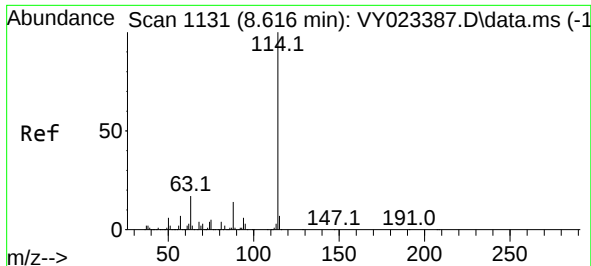
Tgt Ion: 56 Resp: 12323
Ion Ratio Lower Upper
56 100
69 177.5 30.0 45.0#
84 145.7 81.2 121.8#



#33
1,2-Dichloroethane-d4
Concen: 53.313 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY023657.D
Acq: 03 Nov 2025 14:37

Tgt Ion: 65 Resp: 335361
Ion Ratio Lower Upper
65 100
67 53.7 0.0 105.8

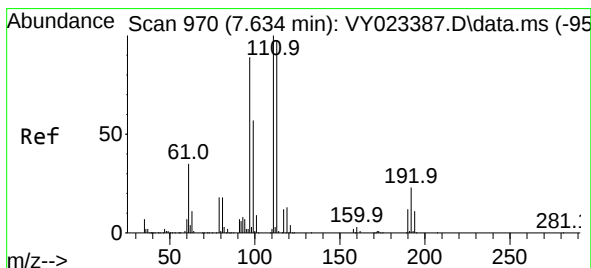
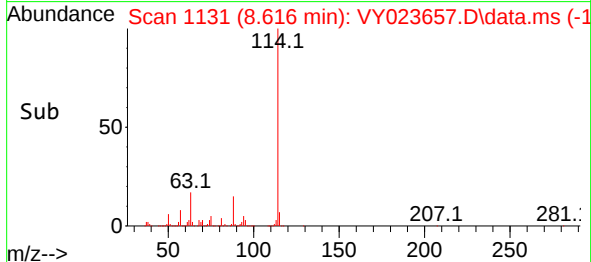
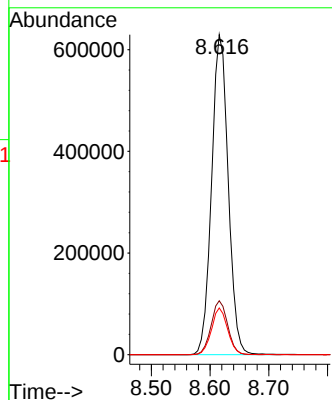
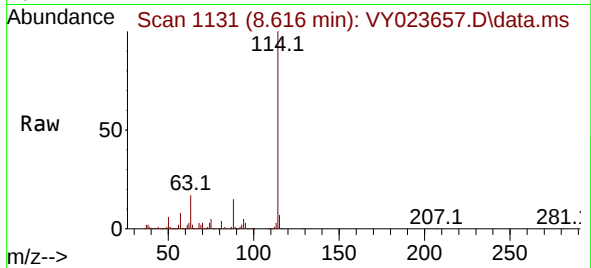




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY023657.D
Acq: 03 Nov 2025 14:37

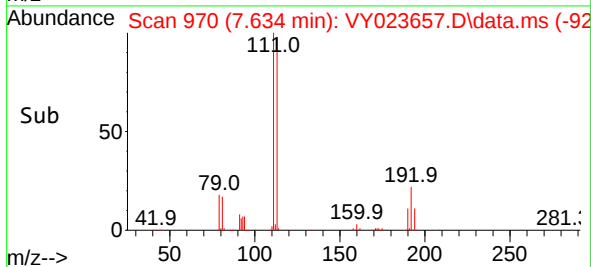
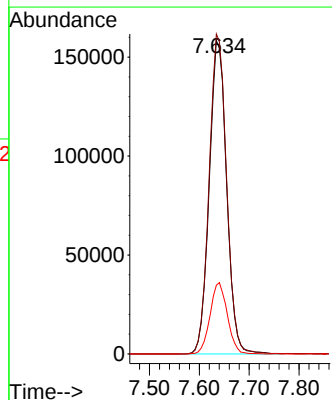
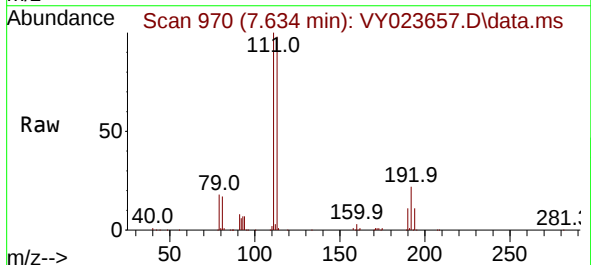
Instrument :
MSVOA_Y
ClientSampleId :

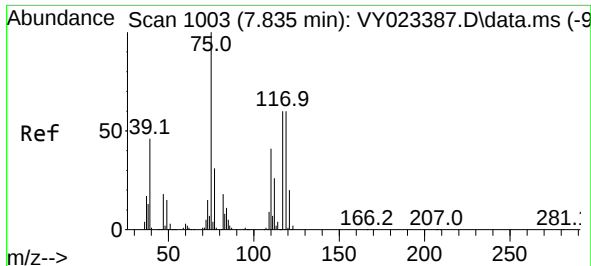
Tgt Ion:114 Resp: 1234030
Ion Ratio Lower Upper
114 100
63 16.8 0.0 34.2
88 14.6 0.0 28.4



#35
Dibromofluoromethane
Concen: 50.532 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY023657.D
Acq: 03 Nov 2025 14:37

Tgt Ion:113 Resp: 383161
Ion Ratio Lower Upper
113 100
111 102.7 81.8 122.6
192 22.7 18.0 27.0





#36

1,1-Dichloropropene

Concen: 4.824 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.128 min

Lab File: VY023657.D

Acq: 03 Nov 2025 14:37

Instrument :

MSVOA_Y

ClientSampleId :

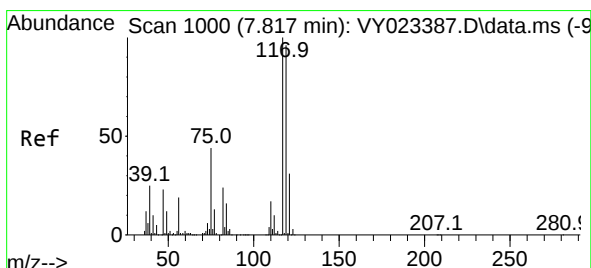
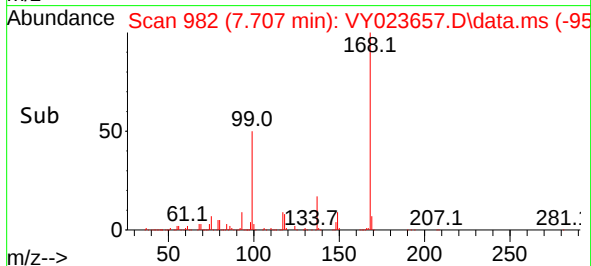
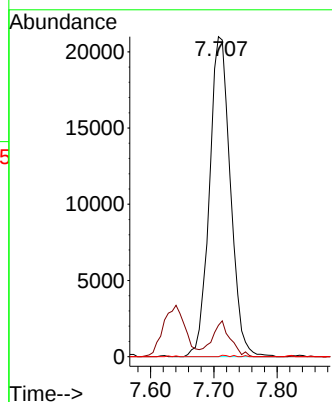
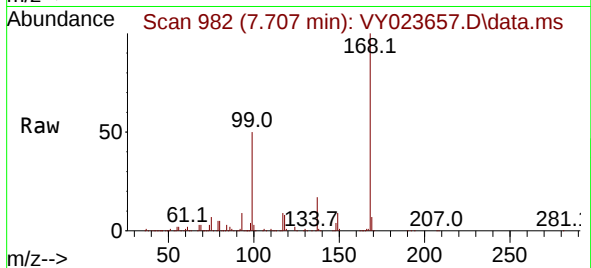
Tgt Ion: 75 Resp: 48426

Ion Ratio Lower Upper

75 100

110 9.8 19.9 59.7#

77 0.1 25.0 37.6#



#38

Carbon Tetrachloride

Concen: 5.583 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.110 min

Lab File: VY023657.D

Acq: 03 Nov 2025 14:37

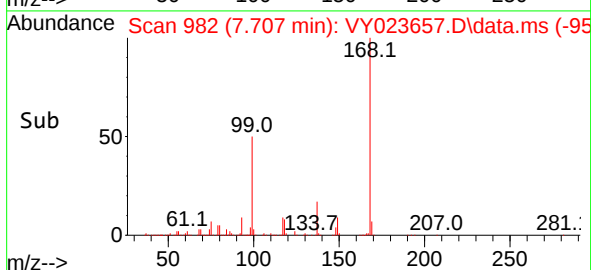
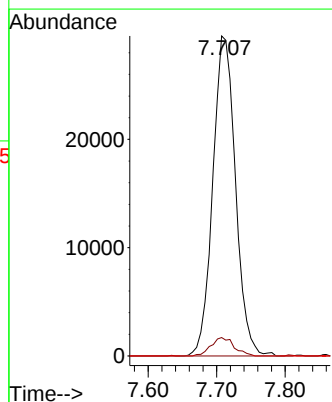
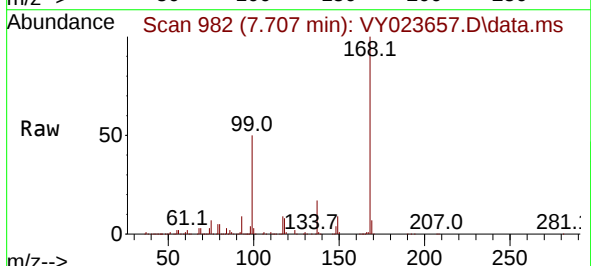
Tgt Ion: 117 Resp: 67960

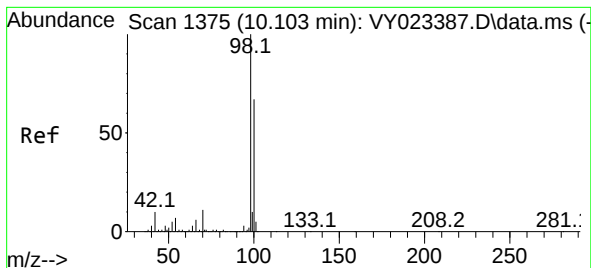
Ion Ratio Lower Upper

117 100

119 5.8 76.8 115.2#

121 0.0 24.5 36.7#





#50

Toluene-d8

Concen: 48.946 ug/l

RT: 10.109 min Scan# 1375

Delta R.T. 0.006 min

Lab File: VY023657.D

Acq: 03 Nov 2025 14:37

Instrument :

MSVOA_Y

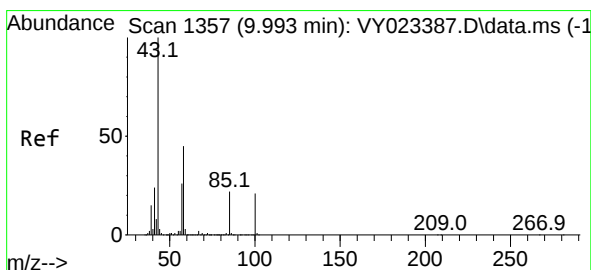
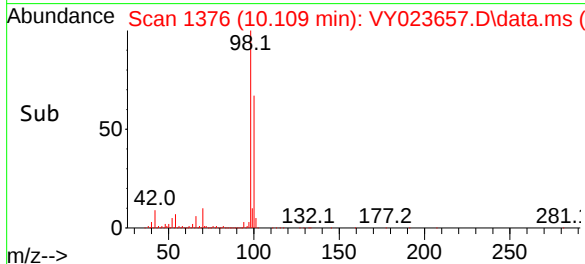
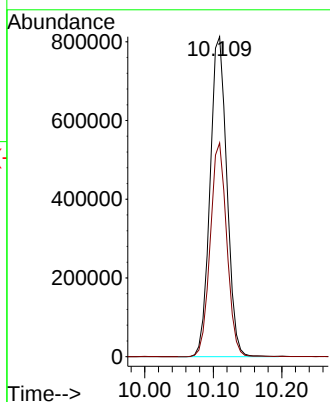
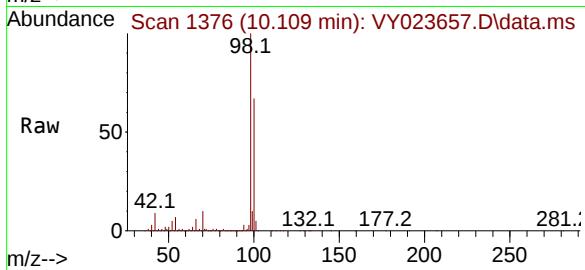
ClientSampleId :

Tgt Ion: 98 Resp: 1382145

Ion Ratio Lower Upper

98 100

100 65.8 53.0 79.4



#51

4-Methyl-2-Pentanone

Concen: 1.360 ug/l

RT: 10.000 min Scan# 1358

Delta R.T. 0.006 min

Lab File: VY023657.D

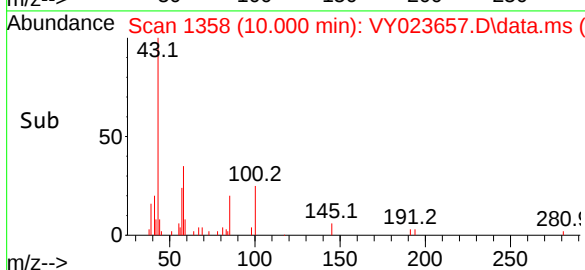
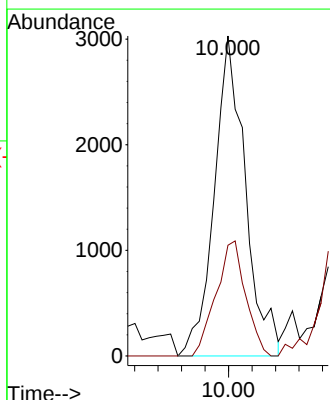
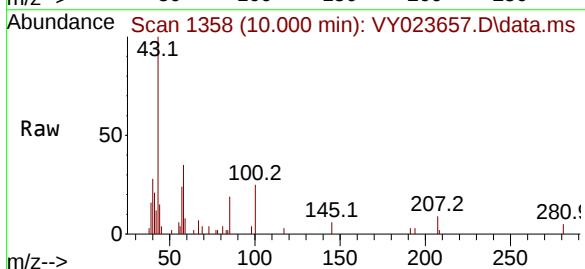
Acq: 03 Nov 2025 14:37

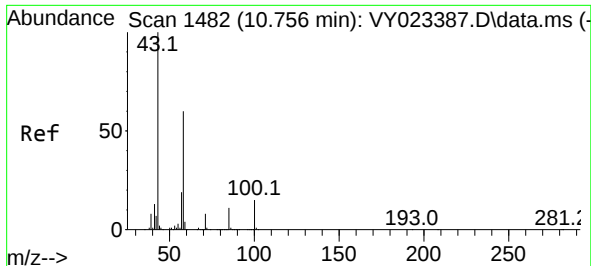
Tgt Ion: 43 Resp: 5571

Ion Ratio Lower Upper

43 100

58 34.1 35.3 52.9#

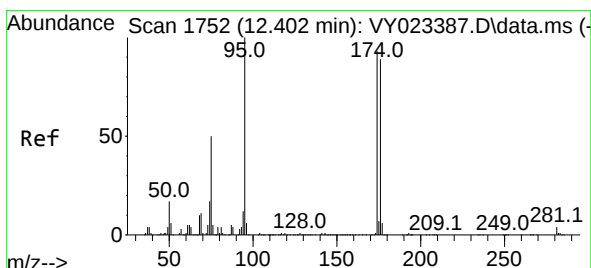
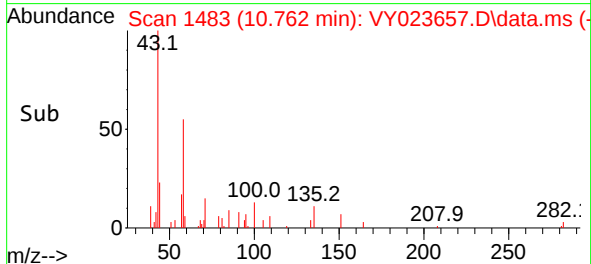
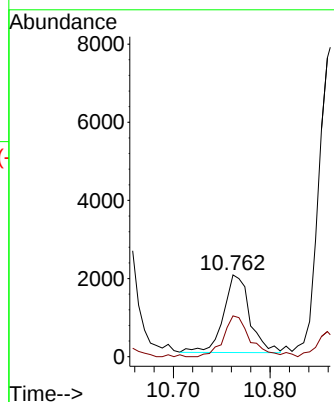
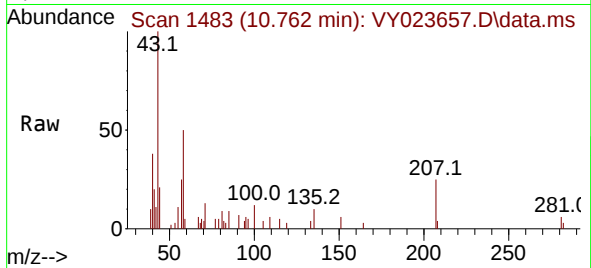




#59
2-Hexanone
Concen: 1.281 ug/l
RT: 10.762 min Scan# 1483
Delta R.T. 0.006 min
Lab File: VY023657.D
Acq: 03 Nov 2025 14:37

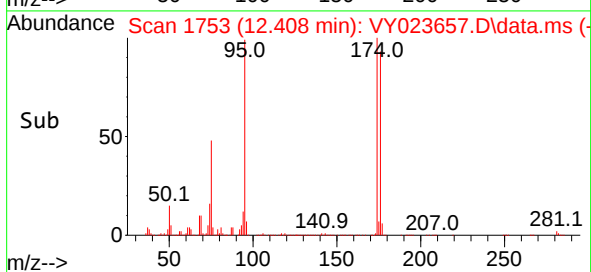
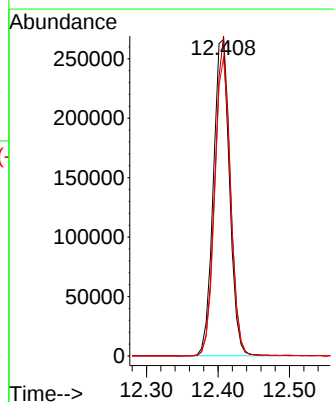
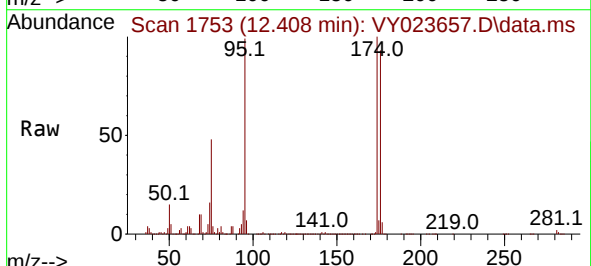
Instrument :
MSVOA_Y
ClientSampleId :

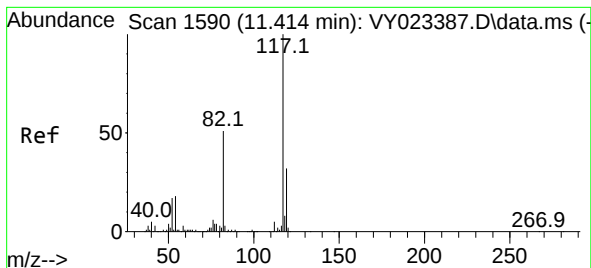
Tgt Ion: 43 Resp: 3752
Ion Ratio Lower Upper
43 100
58 54.2 30.5 91.5



#62
4-Bromofluorobenzene
Concen: 45.015 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023657.D
Acq: 03 Nov 2025 14:37

Tgt Ion: 95 Resp: 419666
Ion Ratio Lower Upper
95 100
174 96.6 0.0 192.8
176 92.4 0.0 187.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY023657.D

Acq: 03 Nov 2025 14:37

Instrument :

MSVOA_Y

ClientSampleId :

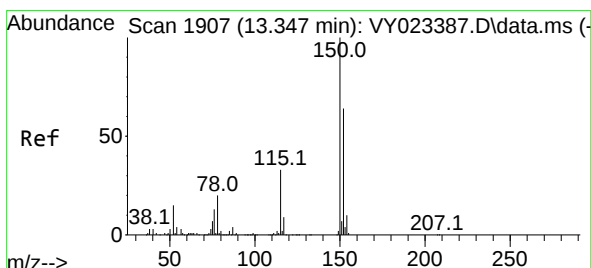
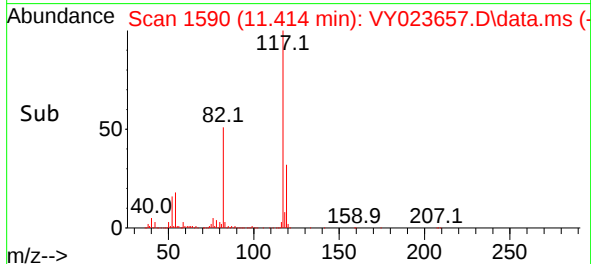
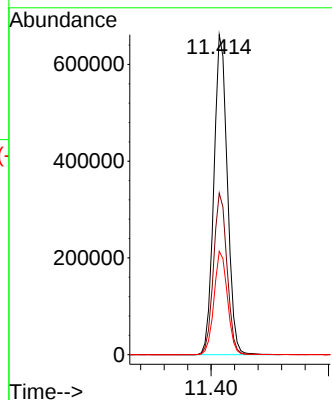
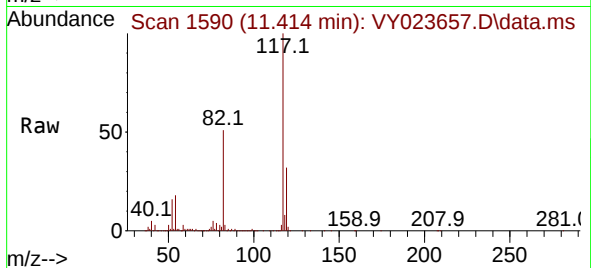
Tgt Ion:117 Resp: 1053828

Ion Ratio Lower Upper

117 100

82 50.5 41.0 61.4

119 32.3 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY023657.D

Acq: 03 Nov 2025 14:37

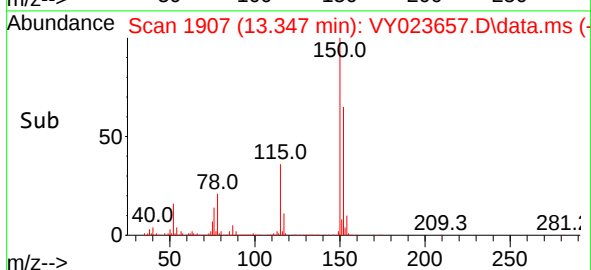
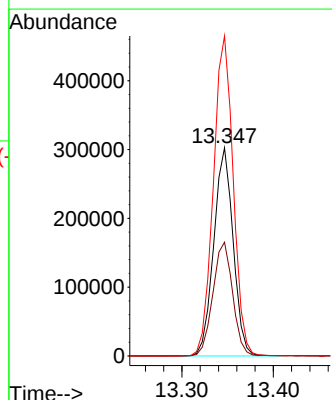
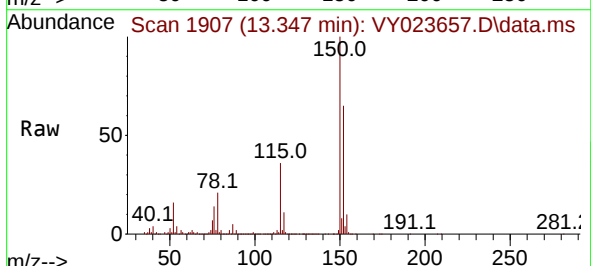
Tgt Ion:152 Resp: 446564

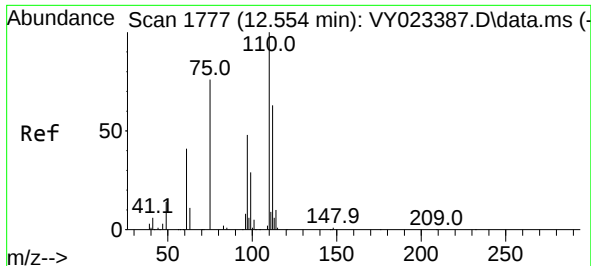
Ion Ratio Lower Upper

152 100

115 55.7 27.1 81.2

150 157.2 0.0 347.4

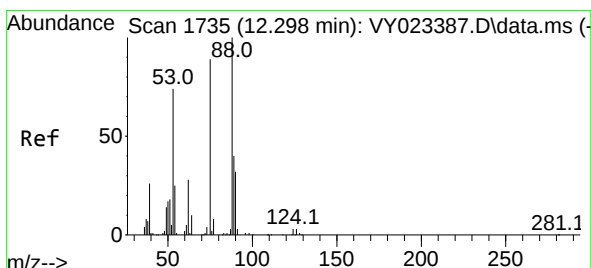
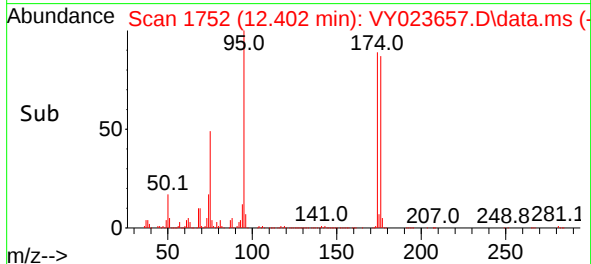
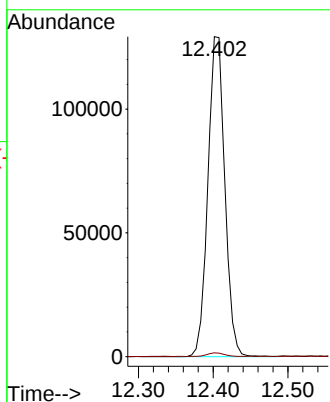
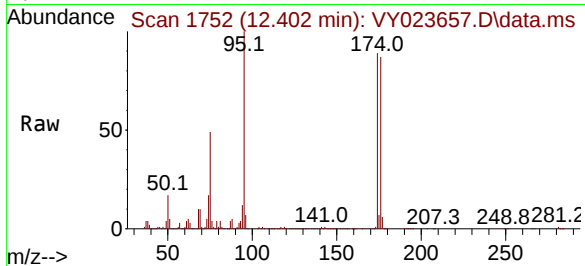




#76
1,2,3-Trichloropropane
Concen: 51.633 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.152 min
Lab File: VY023657.D
Acq: 03 Nov 2025 14:37

Instrument :
MSVOA_Y
ClientSampleId :

Tgt Ion: 75 Resp: 203428
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 126.614 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.104 min
Lab File: VY023657.D
Acq: 03 Nov 2025 14:37

Tgt Ion: 75 Resp: 203428
Ion Ratio Lower Upper
75 100
53 0.2 68.6 102.8#
89 0.1 39.0 58.4#

