

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY102225\
 Data File : VY023551.D
 Acq On : 22 Oct 2025 14:07
 Operator : SY/MD
 Sample : Q3419-01
 Misc : 5.76g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 PR-132-S16-015094-20251021

Quant Time: Oct 24 02:35:35 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)

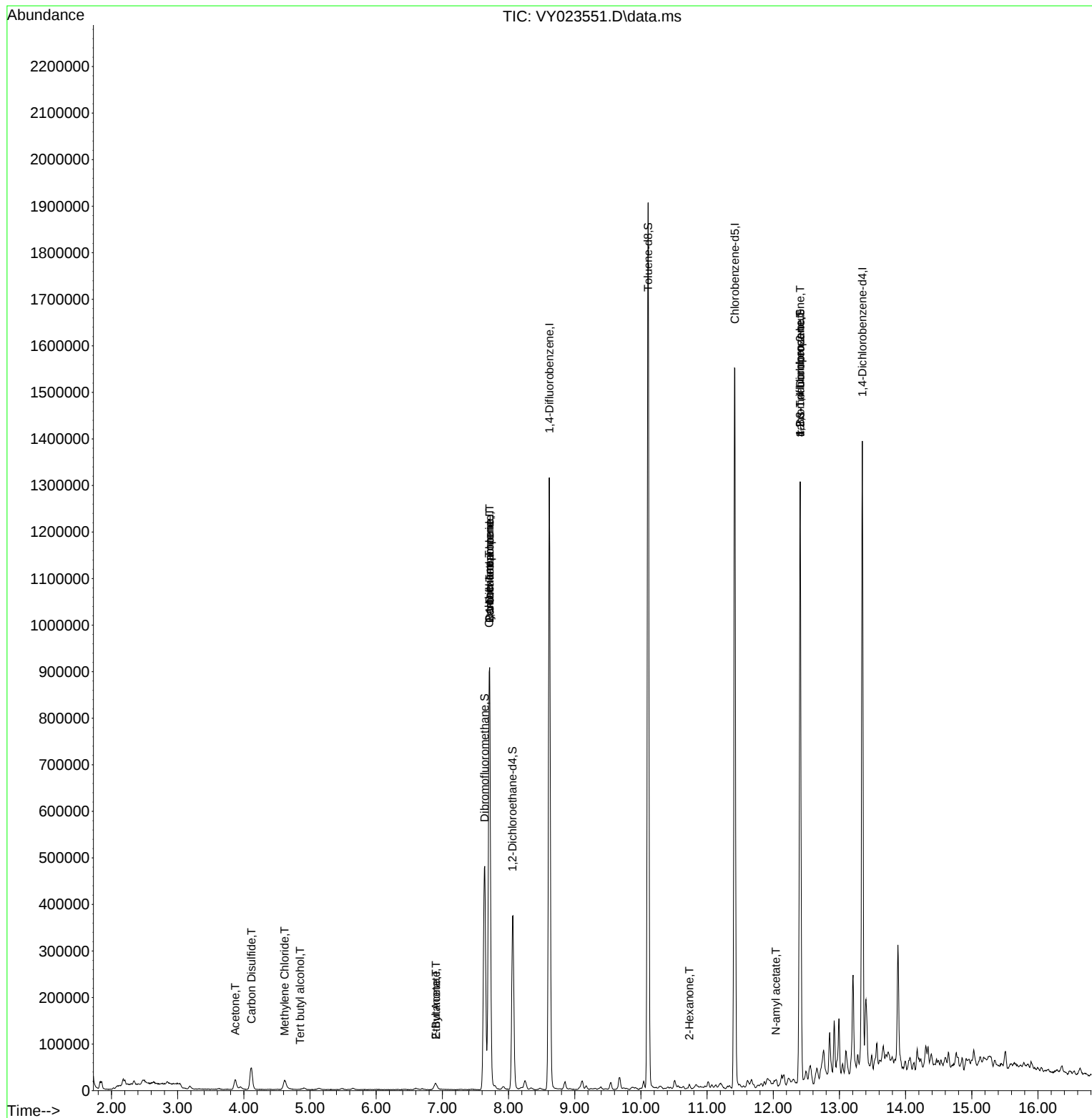
Internal Standards						
1) Pentafluorobenzene	7.713	168	785988	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1180613	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	922887	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	368413	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	290223	44.157	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery =	88.320%		
35) Dibromofluoromethane	7.640	113	346742	47.798	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery =	95.600%		
50) Toluene-d8	10.109	98	1289709	47.739	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery =	95.480%		
62) 4-Bromofluorobenzene	12.408	95	351404	39.398	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery =	78.800%		
Target Compounds						Qvalue
11) Tert butyl alcohol	4.848	59	1564	3.199	ug/l #	90
16) Acetone	3.873	43	35575	22.736	ug/l	99
17) Carbon Disulfide	4.116	76	98634	4.915	ug/l	99
20) Methylene Chloride	4.616	84	15693	1.855	ug/l	96
25) 2-Butanone	6.903	43	12134	6.352	ug/l	89
31) Cyclohexane	7.707	56	14009	1.281	ug/l #	1
36) 1,1-Dichloropropene	7.713	75	47953	4.993	ug/l #	47
37) Ethyl Acetate	6.903	43	12134	3.189	ug/l #	68
38) Carbon Tetrachloride	7.713	117	68711	5.900	ug/l #	16
59) 2-Hexanone	10.731	43	3187	1.138	ug/l #	22
74) N-amyl acetate	12.042	43	4729	1.084	ug/l #	37
76) 1,2,3-Trichloropropane	12.408	75	171089	52.637	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.408	75	171089	129.075	ug/l #	15

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

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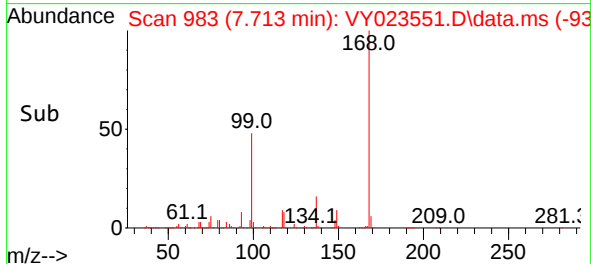
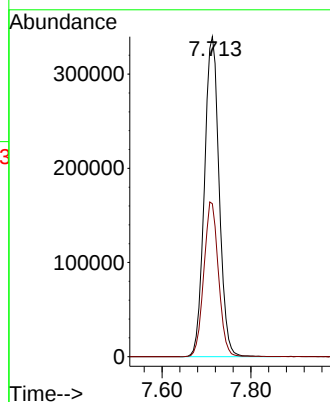
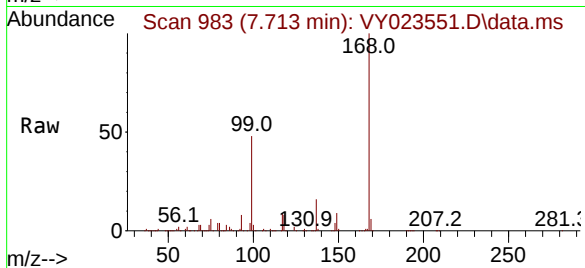




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023551.D
Acq: 22 Oct 2025 14:07

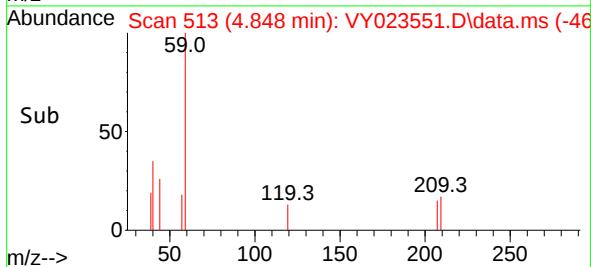
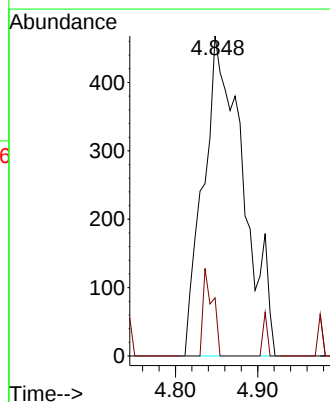
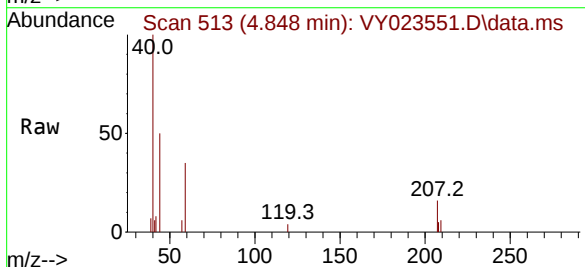
Instrument :
MSVOA_Y
ClientSampleId :
PR-132-S16-015094-20251021

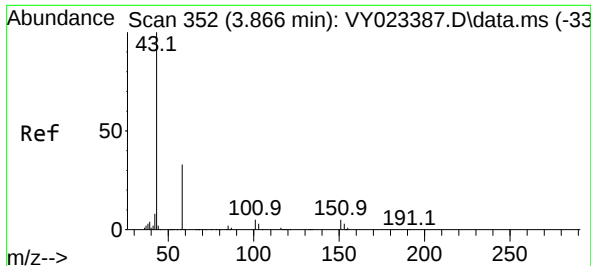
Tgt Ion:168 Resp: 785988
Ion Ratio Lower Upper
168 100
99 47.8 39.7 59.5



#11
Tert butyl alcohol
Concen: 3.199 ug/l
RT: 4.848 min Scan# 513
Delta R.T. -0.012 min
Lab File: VY023551.D
Acq: 22 Oct 2025 14:07

Tgt Ion: 59 Resp: 1564
Ion Ratio Lower Upper
59 100
57 6.8 8.3 12.5#





#16

Acetone

Concen: 22.736 ug/l

RT: 3.873 min Scan# 3

Delta R.T. 0.006 min

Lab File: VY023551.D

Acq: 22 Oct 2025 14:07

Instrument :

MSVOA_Y

ClientSampleId :

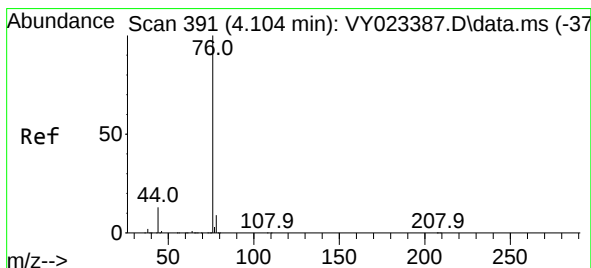
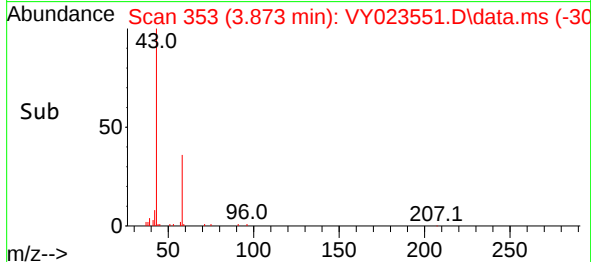
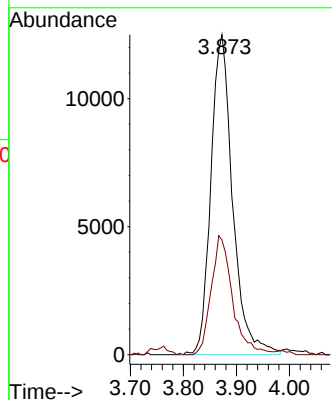
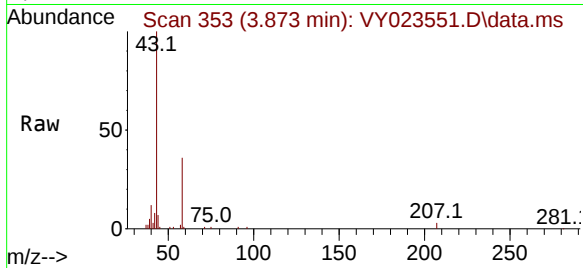
PR-132-S16-015094-20251021

Tgt Ion: 43 Resp: 35575

Ion Ratio Lower Upper

43 100

58 35.4 27.7 41.5



#17

Carbon Disulfide

Concen: 4.915 ug/l

RT: 4.116 min Scan# 393

Delta R.T. 0.012 min

Lab File: VY023551.D

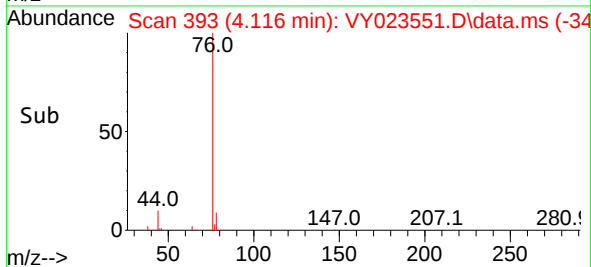
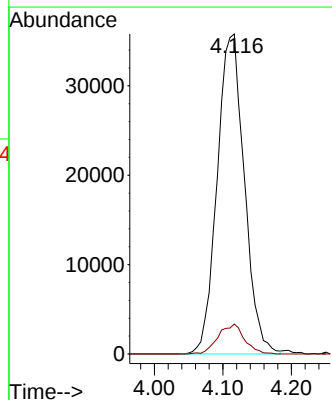
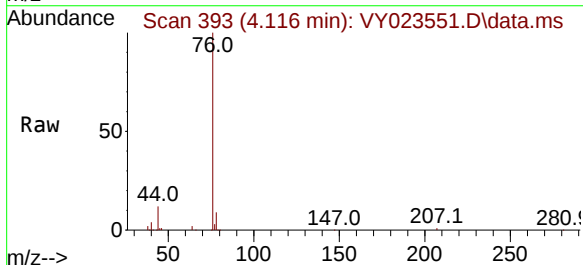
Acq: 22 Oct 2025 14:07

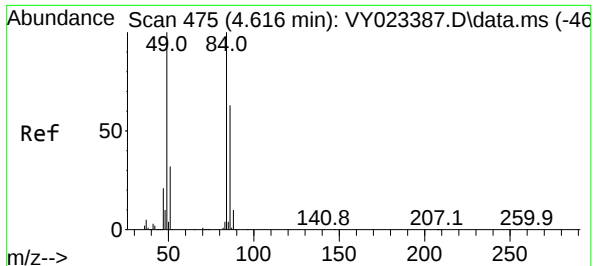
Tgt Ion: 76 Resp: 98634

Ion Ratio Lower Upper

76 100

78 9.3 7.3 10.9

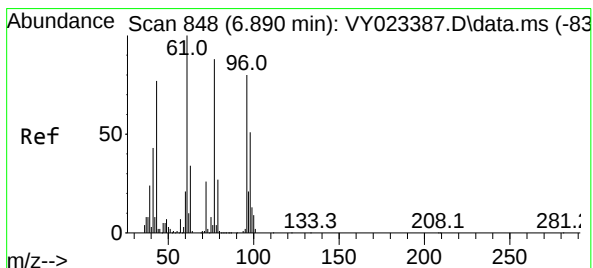
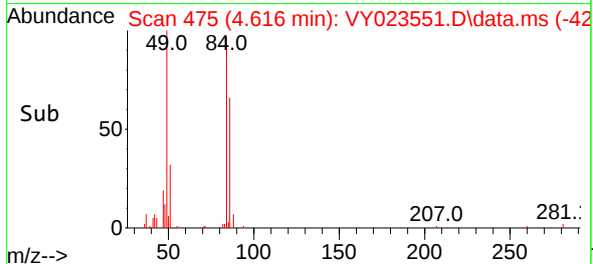
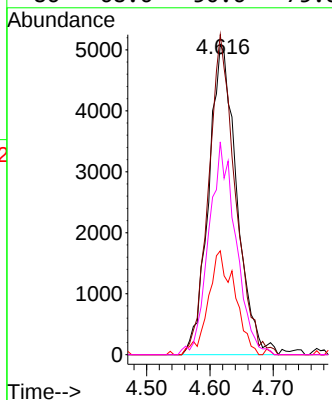
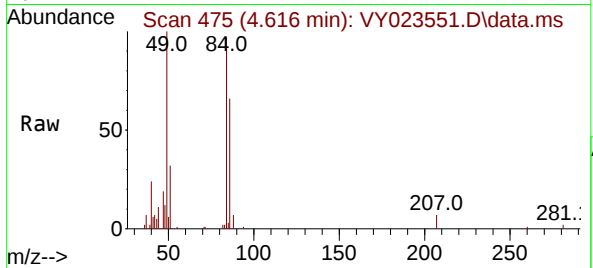




#20
Methylene Chloride
Concen: 1.855 ug/l
RT: 4.616 min Scan# 41
Delta R.T. 0.000 min
Lab File: VY023551.D
Acq: 22 Oct 2025 14:07

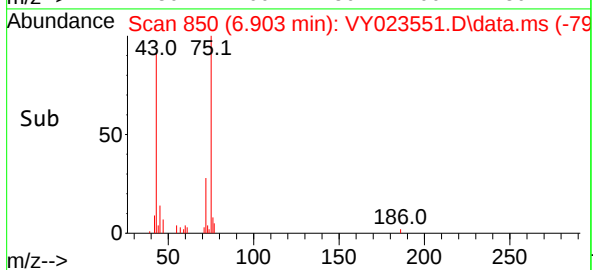
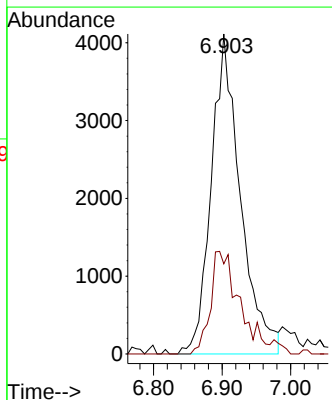
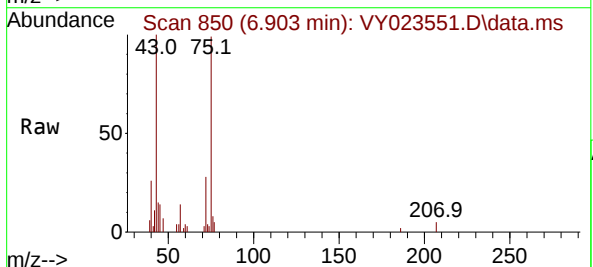
Instrument :
MSVOA_Y
ClientSampleId :
PR-132-S16-015094-20251021

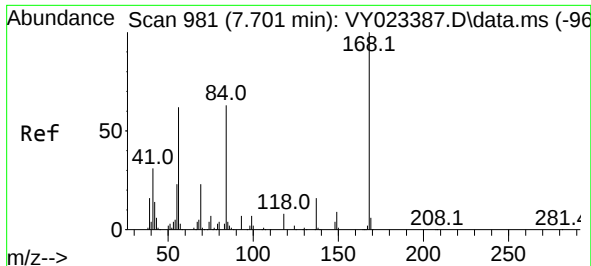
Tgt Ion:	84	Resp:	15693
Ion	Ratio	Lower	Upper
84	100		
49	103.2	80.2	120.4
51	33.5	25.9	38.9
86	68.6	50.6	75.8



#25
2-Butanone
Concen: 6.352 ug/l
RT: 6.903 min Scan# 850
Delta R.T. 0.012 min
Lab File: VY023551.D
Acq: 22 Oct 2025 14:07

Tgt Ion:	43	Resp:	12134
Ion	Ratio	Lower	Upper
43	100		
72	28.2	27.4	41.2

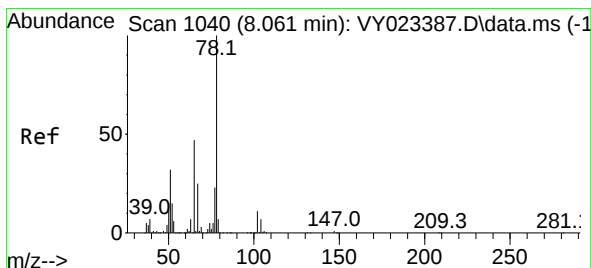
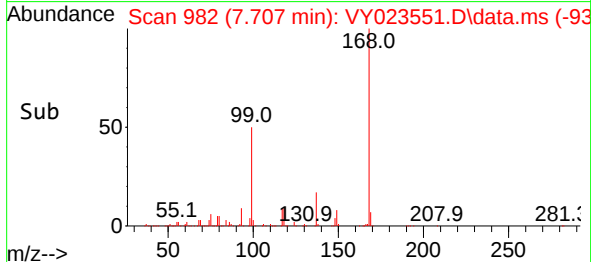
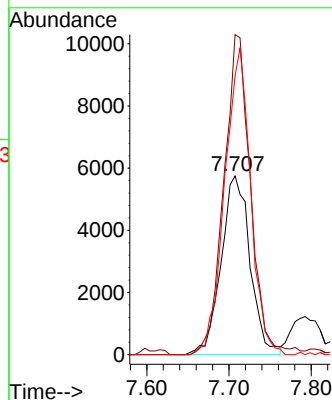
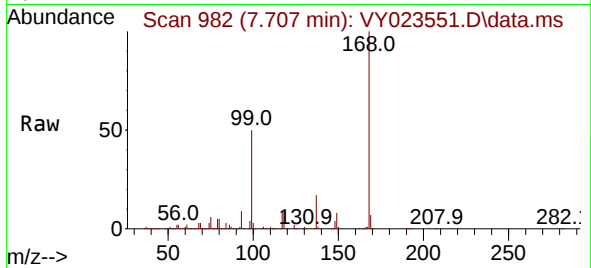




#31
Cyclohexane
Concen: 1.281 ug/l
RT: 7.707 min Scan# 981
Delta R.T. 0.006 min
Lab File: VY023551.D
Acq: 22 Oct 2025 14:07

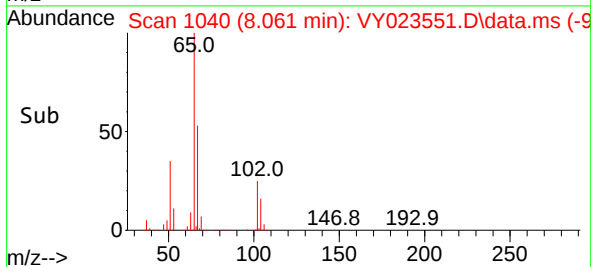
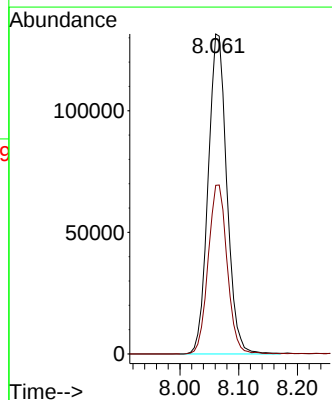
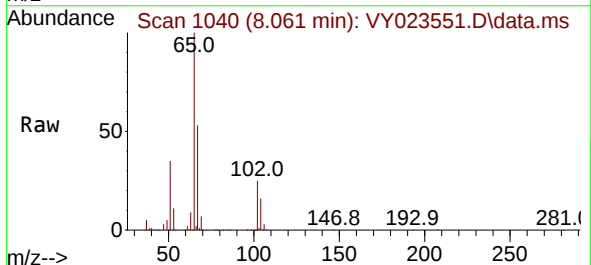
Instrument :
MSVOA_Y
ClientSampleId :
PR-132-S16-015094-20251021

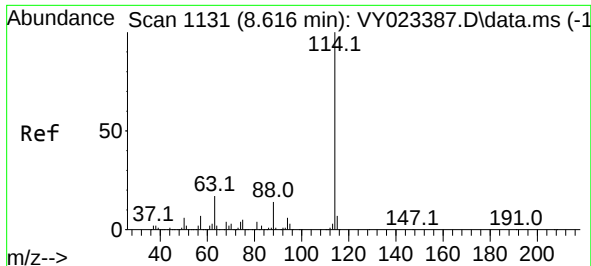
Tgt Ion: 56 Resp: 14009
Ion Ratio Lower Upper
56 100
69 179.0 30.0 45.0#
84 156.0 81.2 121.8#



#33
1,2-Dichloroethane-d4
Concen: 44.157 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY023551.D
Acq: 22 Oct 2025 14:07

Tgt Ion: 65 Resp: 290223
Ion Ratio Lower Upper
65 100
67 53.8 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: VY023551.D

Acq: 22 Oct 2025 14:07

Instrument :

MSVOA_Y

ClientSampleId :

PR-132-S16-015094-20251021

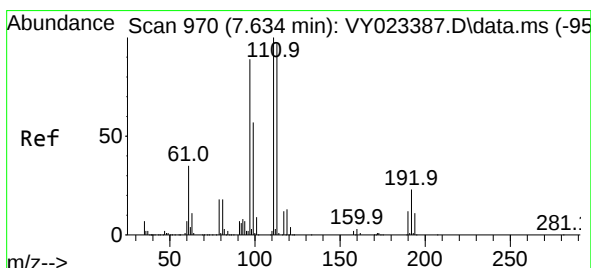
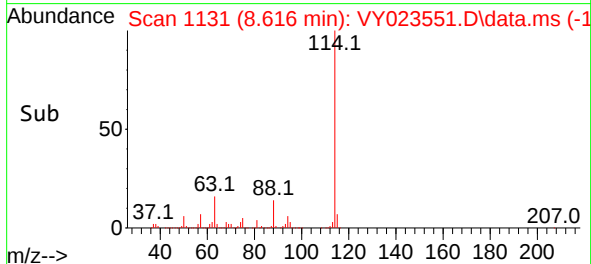
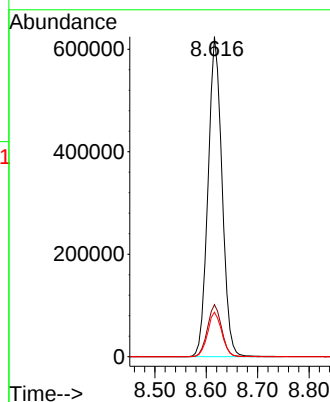
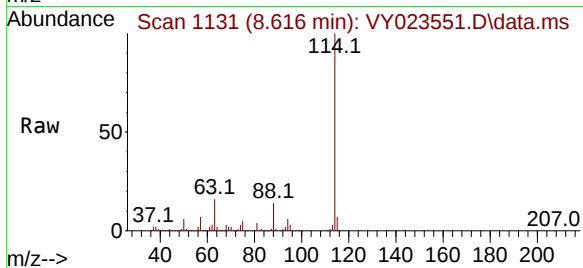
Tgt Ion:114 Resp: 1180613

Ion Ratio Lower Upper

114 100

63 16.2 0.0 34.2

88 13.9 0.0 28.4



#35

Dibromofluoromethane

Concen: 47.798 ug/l

RT: 7.640 min Scan# 971

Delta R.T. 0.006 min

Lab File: VY023551.D

Acq: 22 Oct 2025 14:07

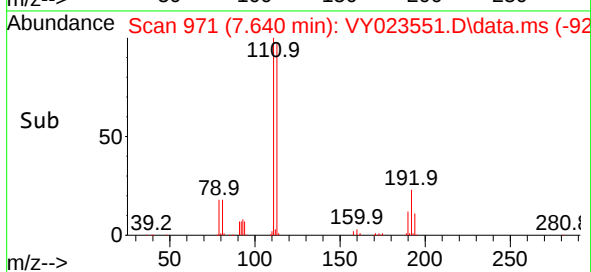
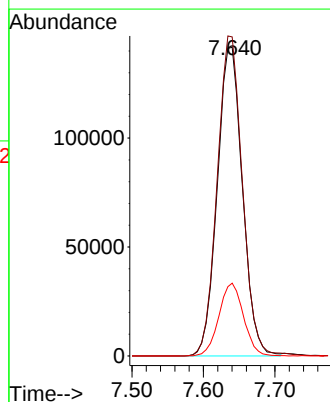
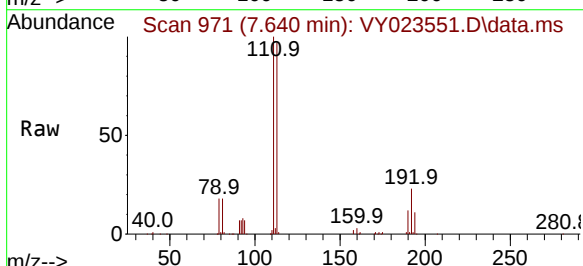
Tgt Ion:113 Resp: 346742

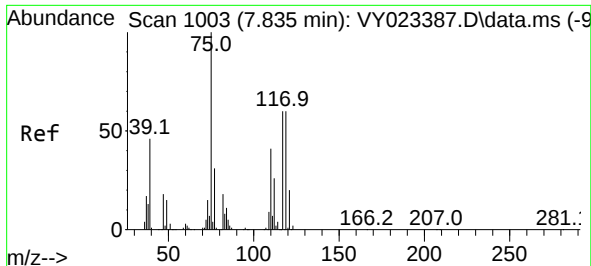
Ion Ratio Lower Upper

113 100

111 103.8 81.8 122.6

192 23.0 18.0 27.0





#36

1,1-Dichloropropene

Concen: 4.993 ug/l

RT: 7.713 min Scan# 91

Delta R.T. -0.122 min

Lab File: VY023551.D

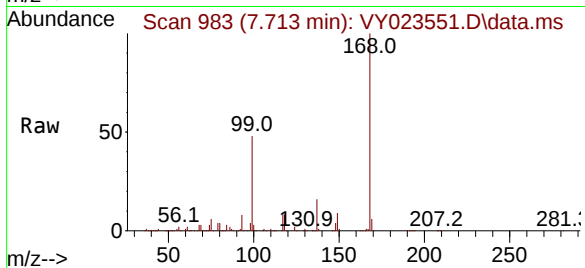
Acq: 22 Oct 2025 14:07

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ClientSampleId :

PR-132-S16-015094-20251021



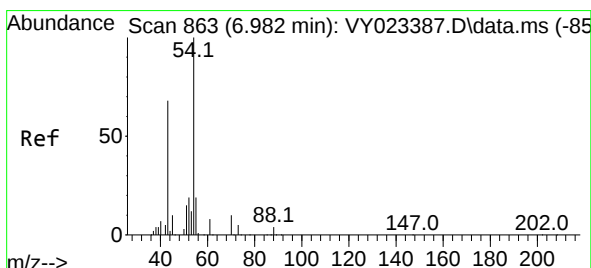
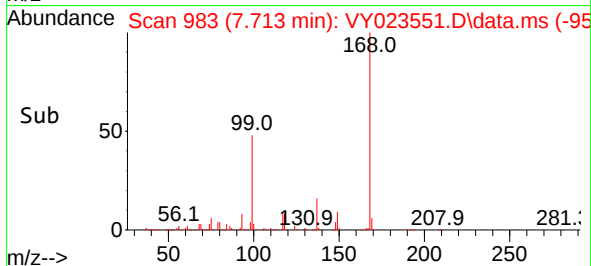
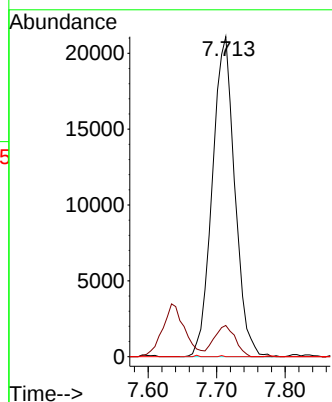
Tgt Ion: 75 Resp: 47953

Ion Ratio Lower Upper

75 100

110 9.0 19.9 59.7#

77 0.1 25.0 37.6#



#37

Ethyl Acetate

Concen: 3.189 ug/l

RT: 6.903 min Scan# 850

Delta R.T. -0.079 min

Lab File: VY023551.D

Acq: 22 Oct 2025 14:07

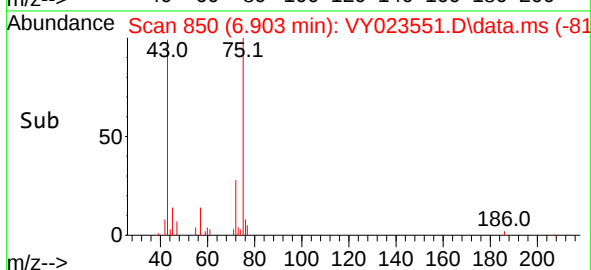
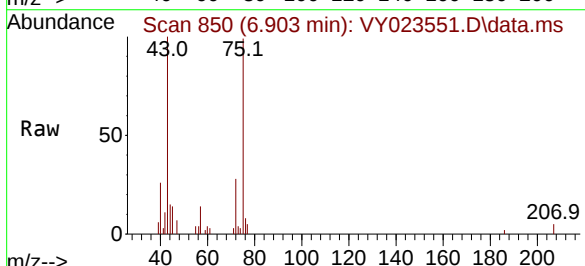
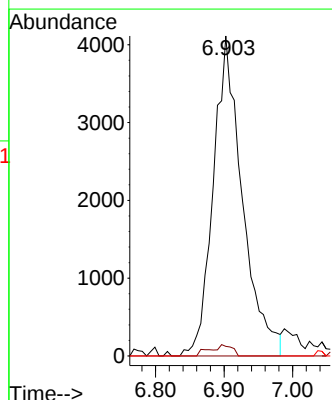
Tgt Ion: 43 Resp: 12134

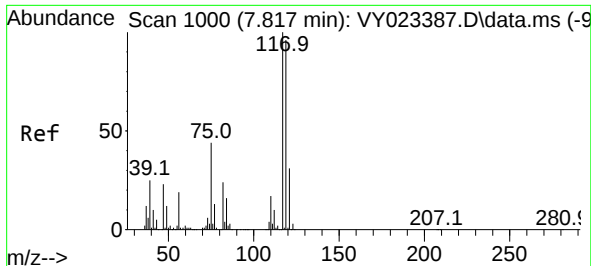
Ion Ratio Lower Upper

43 100

61 1.7 11.8 17.8#

70 0.0 10.5 15.7#

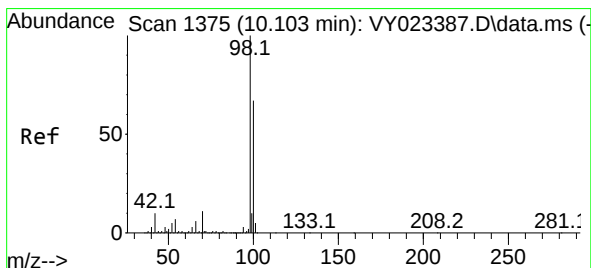
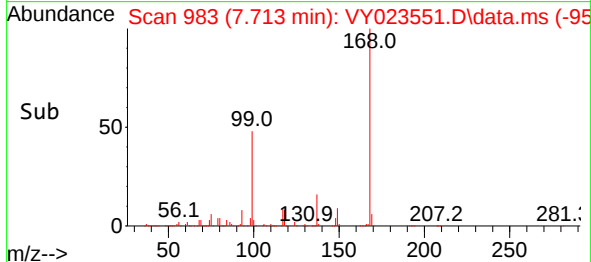
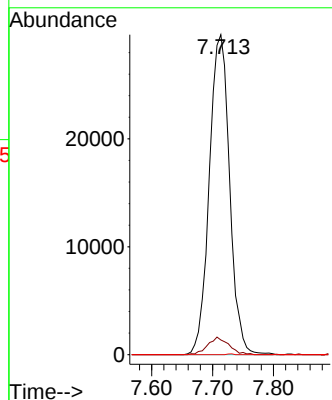
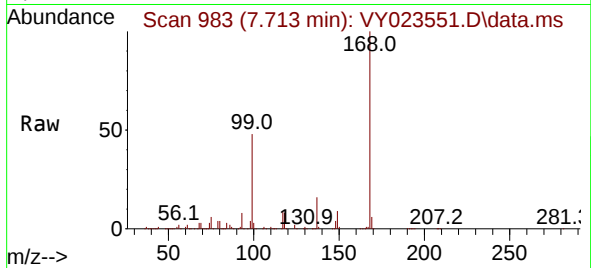




#38
Carbon Tetrachloride
Concen: 5.900 ug/l
RT: 7.713 min Scan# 91
Delta R.T. -0.104 min
Lab File: VY023551.D
Acq: 22 Oct 2025 14:07

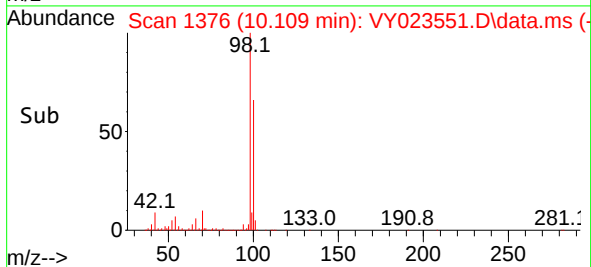
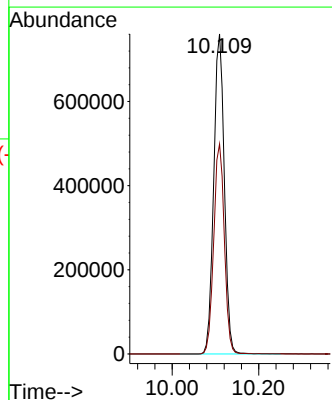
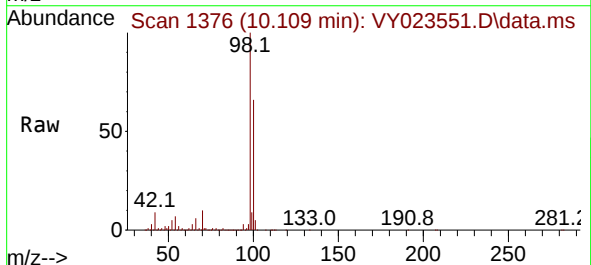
Instrument :
MSVOA_Y
ClientSampleId :
PR-132-S16-015094-20251021

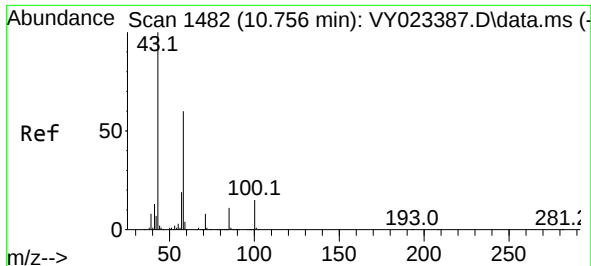
Tgt Ion:117 Resp: 68711
Ion Ratio Lower Upper
117 100
119 4.6 76.8 115.2#
121 0.0 24.5 36.7#



#50
Toluene-d8
Concen: 47.739 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023551.D
Acq: 22 Oct 2025 14:07

Tgt Ion: 98 Resp: 1289709
Ion Ratio Lower Upper
98 100
100 65.7 53.0 79.4

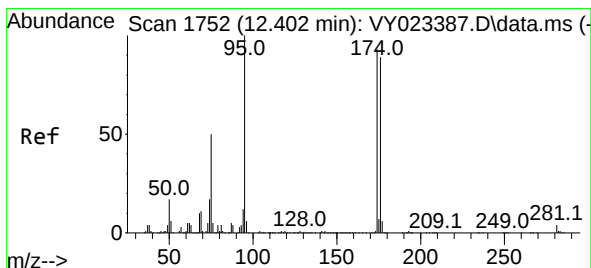
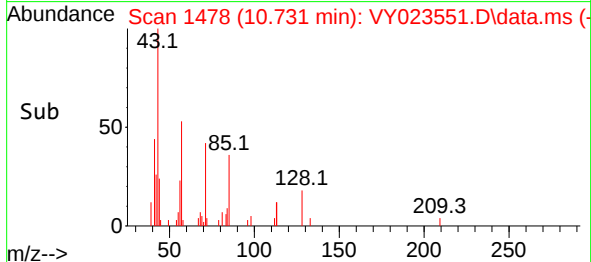
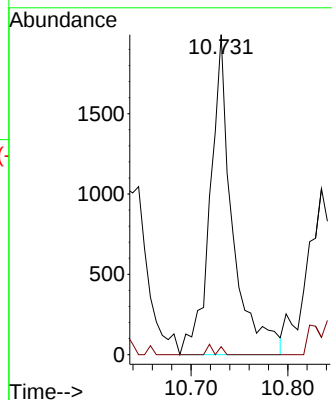
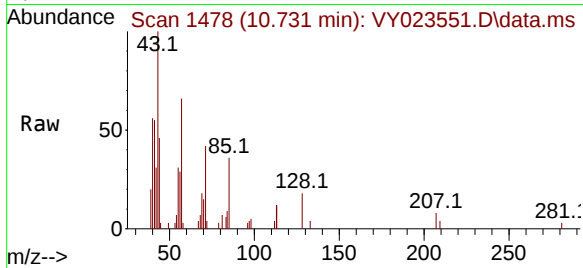




#59
2-Hexanone
Concen: 1.138 ug/l
RT: 10.731 min Scan# 1482
Delta R.T. -0.024 min
Lab File: VY023551.D
Acq: 22 Oct 2025 14:07

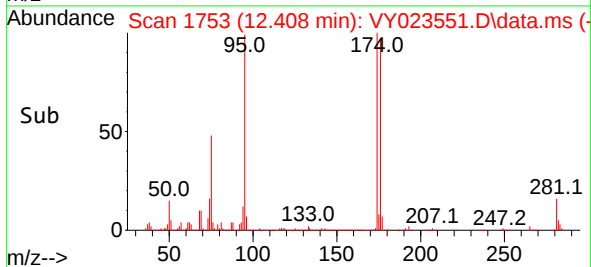
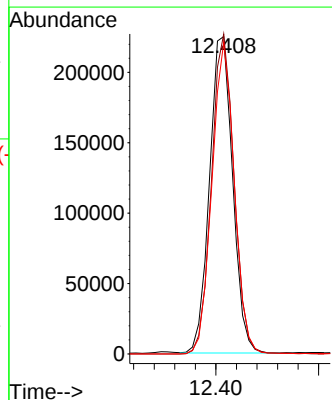
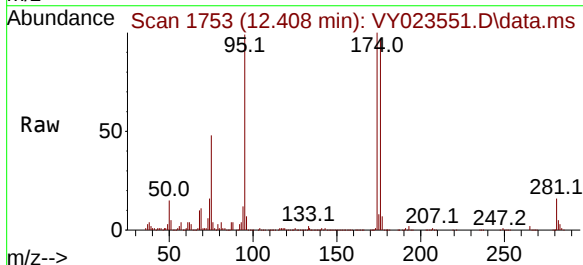
Instrument :
MSVOA_Y
ClientSampleId :
PR-132-S16-015094-20251021

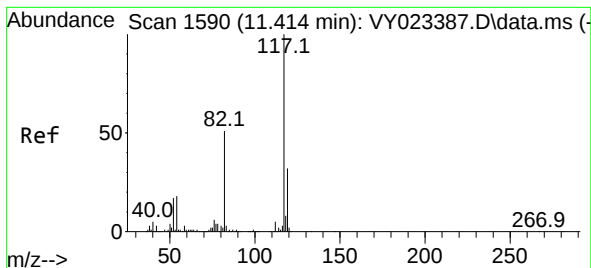
Tgt Ion: 43 Resp: 3187
Ion Ratio Lower Upper
43 100
58 1.3 30.5 91.5#



#62
4-Bromofluorobenzene
Concen: 39.398 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023551.D
Acq: 22 Oct 2025 14:07

Tgt Ion: 95 Resp: 351404
Ion Ratio Lower Upper
95 100
174 98.6 0.0 192.8
176 95.3 0.0 187.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023551.D

Acq: 22 Oct 2025 14:07

Instrument :

MSVOA_Y

ClientSampleId :

PR-132-S16-015094-20251021

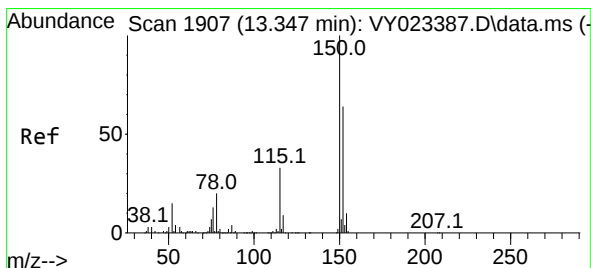
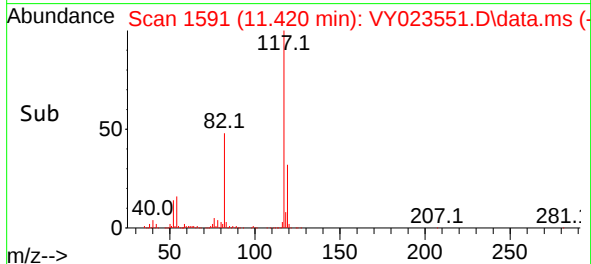
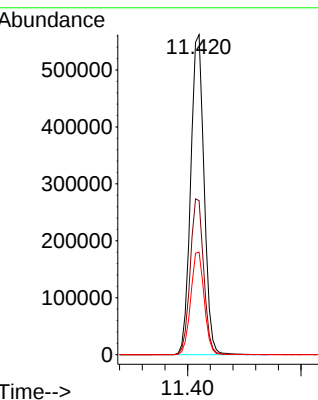
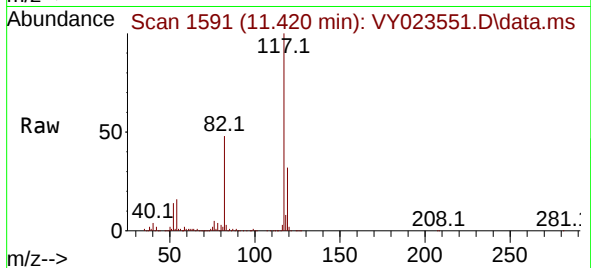
Tgt Ion:117 Resp: 922887

Ion Ratio Lower Upper

117 100

82 48.1 41.0 61.4

119 32.0 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: VY023551.D

Acq: 22 Oct 2025 14:07

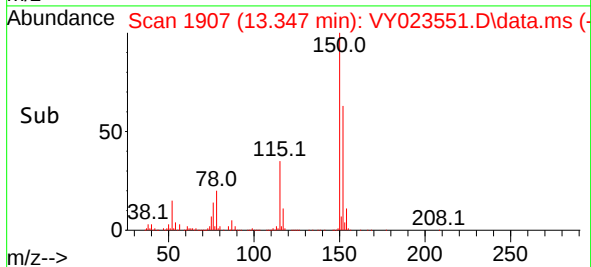
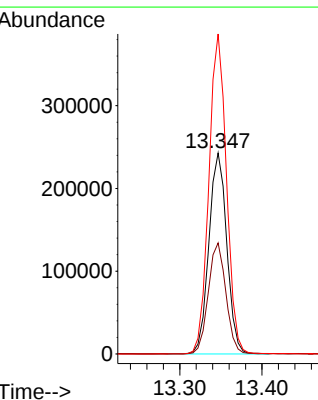
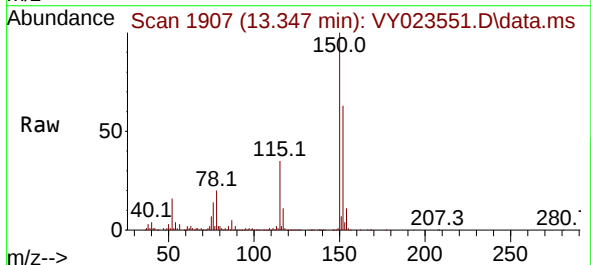
Tgt Ion:152 Resp: 368413

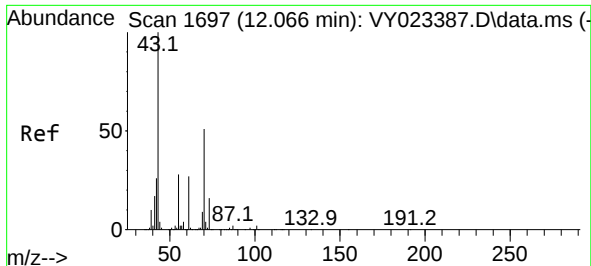
Ion Ratio Lower Upper

152 100

115 54.5 27.1 81.2

150 156.4 0.0 347.4

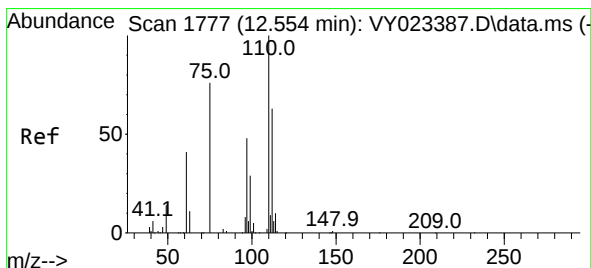
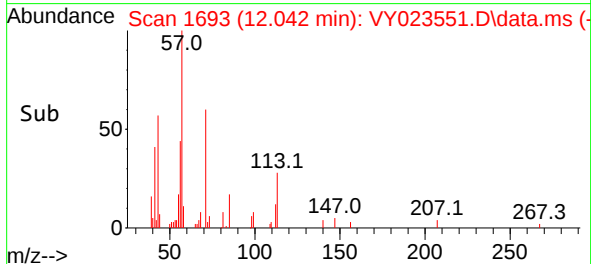
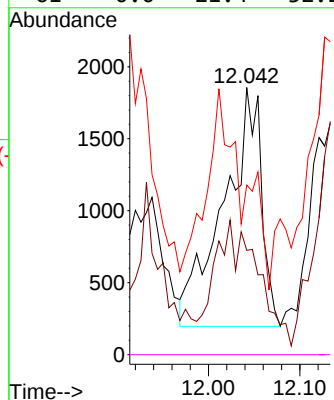
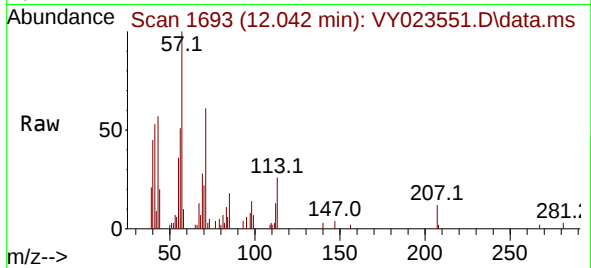




#74
N-amy1 acetate
Concen: 1.084 ug/l
RT: 12.042 min Scan# 1753
Delta R.T. -0.024 min
Lab File: VY023551.D
Acq: 22 Oct 2025 14:07

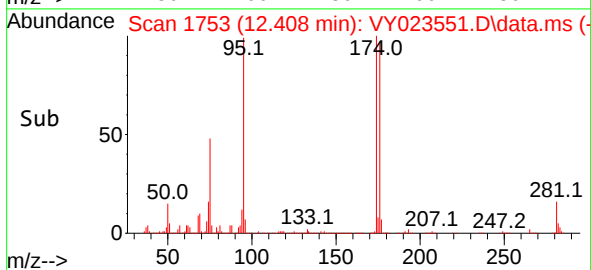
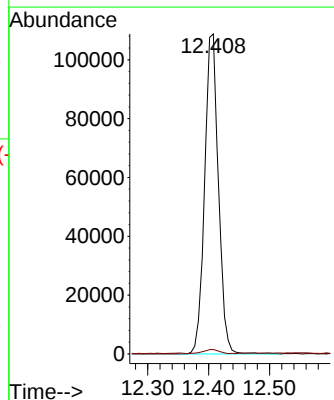
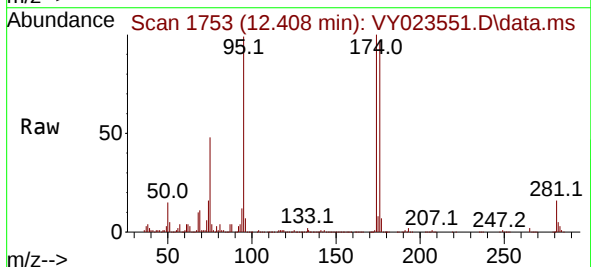
Instrument :
MSVOA_Y
ClientSampleId :
PR-132-S16-015094-20251021

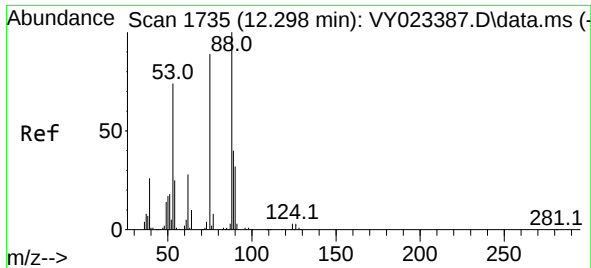
Tgt Ion: 43	Resp: 4729
Ion Ratio	Lower Upper
43 100	
70 0.0	41.1 61.7#
55 0.0	23.0 34.6#
61 0.0	21.4 32.2#



#76
1,2,3-Trichloropropane
Concen: 52.637 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.146 min
Lab File: VY023551.D
Acq: 22 Oct 2025 14:07

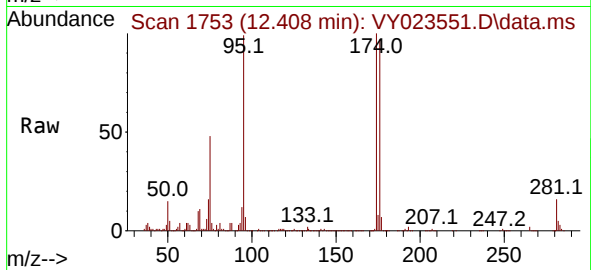
Tgt Ion: 75	Resp: 171089
Ion Ratio	Lower Upper
75 100	
77 1.5	0.0 0.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 129.075 ug/l
 RT: 12.408 min Scan# 11
 Delta R.T. 0.110 min
 Lab File: VY023551.D
 Acq: 22 Oct 2025 14:07

Instrument :
 MSVOA_Y
 ClientSampleId :
 PR-132-S16-015094-20251021



Tgt Ion: 75 Resp: 171089
 Ion Ratio Lower Upper
 75 100
 53 1.1 68.6 102.8#
 89 0.2 39.0 58.4#

