

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY110325\
 Data File : VY023651.D
 Acq On : 03 Nov 2025 12:16
 Operator : SY/MD
 Sample : Q3499-01
 Misc : 4.68g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Nov 04 01:31:49 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)

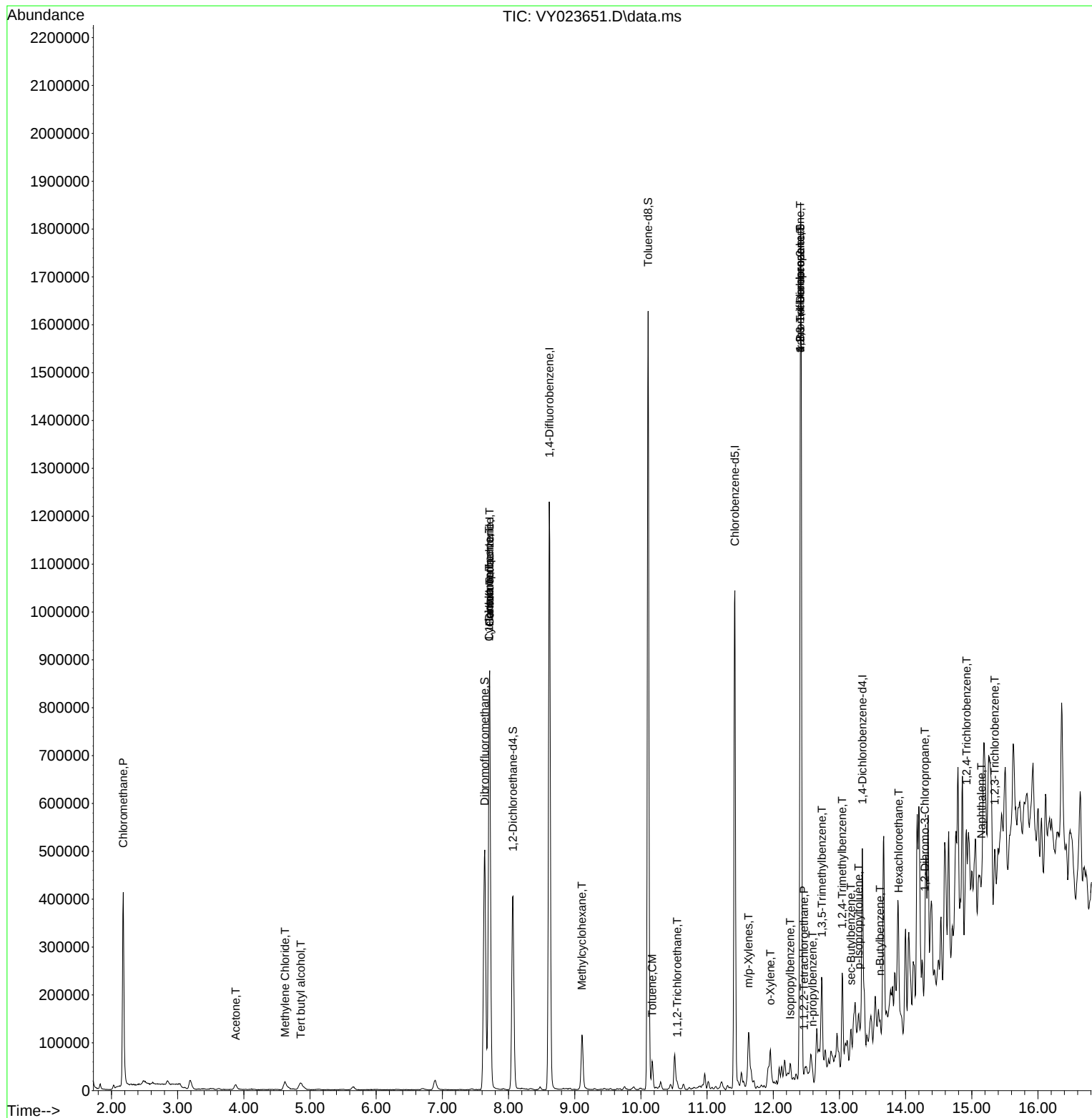
Internal Standards						
1) Pentafluorobenzene	7.713	168	718745	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1101215	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	599022	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	117035	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	316931	52.732	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 105.460%	
35) Dibromofluoromethane	7.640	113	358845	53.033	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 106.060%	
50) Toluene-d8	10.109	98	1051260	41.718	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 83.440%	
62) 4-Bromofluorobenzene	12.408	95	171514	20.616	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 41.240%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.178	50	18889	2.680	ug/l #	76
11) Tert butyl alcohol	4.860	59	27273	60.996	ug/l	98
16) Acetone	3.879	43	18484	12.918	ug/l	98
20) Methylene Chloride	4.623	84	12007	1.552	ug/l	93
31) Cyclohexane	7.707	56	16648	1.665	ug/l #	15
36) 1,1-Dichloropropene	7.707	75	47870	5.344	ug/l #	48
38) Carbon Tetrachloride	7.713	117	64906	5.975	ug/l #	16
39) Methylcyclohexane	9.110	83	45657	3.914	ug/l	96
52) Toluene	10.170	92	23241	1.262	ug/l	100
55) 1,1,2-Trichloroethane	10.548	97	6142	1.153	ug/l #	23
68) m/p-Xylenes	11.627	106	32304	3.819	ug/l	98
69) o-Xylene	11.957	106	16198	2.042	ug/l	92
73) Isopropylbenzene	12.255	105	10384	1.346	ug/l	93
75) 1,1,2,2-Tetrachloroethane	12.463	83	1674	1.327	ug/l #	44
76) 1,2,3-Trichloropropane	12.408	75	92773	89.847	ug/l #	100
78) n-propylbenzene	12.597	91	15615	1.750	ug/l	99
80) 1,3,5-Trimethylbenzene	12.737	105	34652	5.560	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.408	75	92773	220.323	ug/l #	17
84) 1,2,4-Trimethylbenzene	13.042	105	94607	15.210	ug/l	100
85) sec-Butylbenzene	13.176	105	17870	2.165	ug/l #	72
86) p-Isopropyltoluene	13.292	119	32105	4.568	ug/l	99
89) n-Butylbenzene	13.615	91	10120	1.653	ug/l #	77
90) Hexachloroethane	13.895	117	3135	2.074	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	14.292	75	360	1.739	ug/l #	25
93) 1,2,4-Trichlorobenzene	14.919	180	6031	2.764	ug/l #	1
95) Naphthalene	15.145	128	29196	8.401	ug/l #	92
96) 1,2,3-Trichlorobenzene	15.346	180	7027	3.717	ug/l #	12

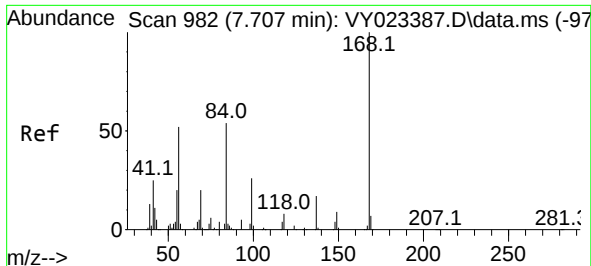
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Oct 08 05:12:50 2025
Response via : Initial Calibration

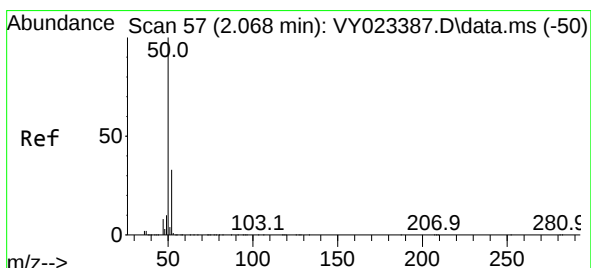
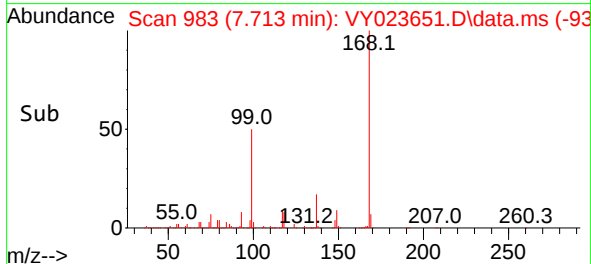
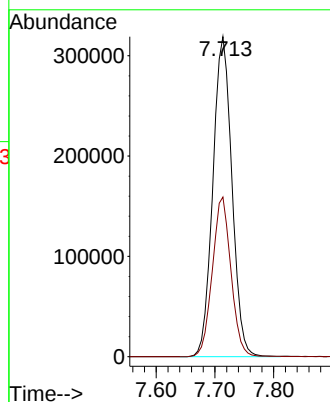
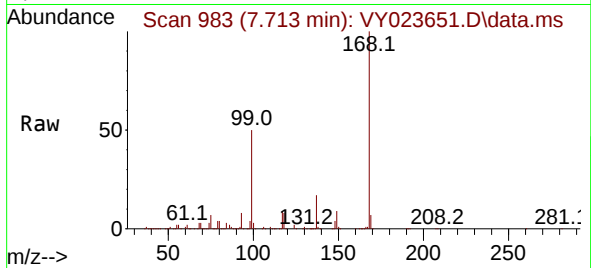




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023651.D
Acq: 03 Nov 2025 12:16

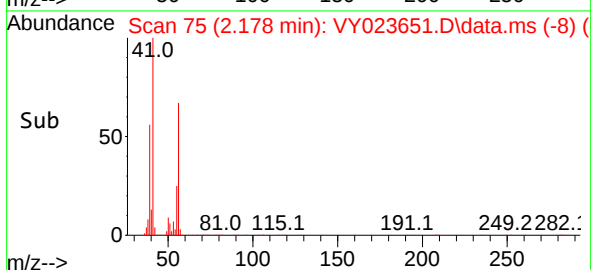
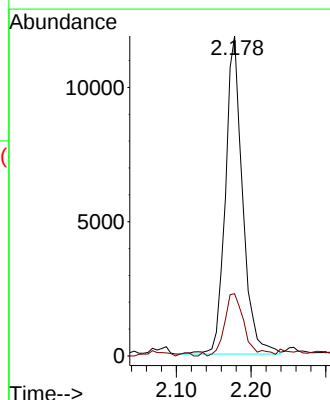
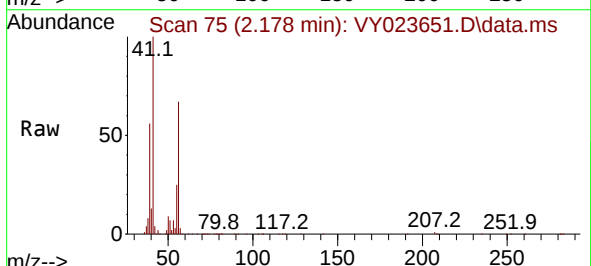
Instrument :
MSVOA_Y
ClientSampleId :

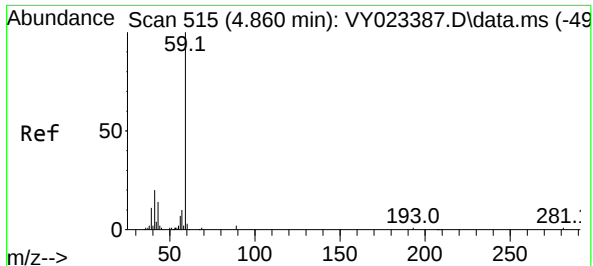
Tgt Ion:168 Resp: 718745
Ion Ratio Lower Upper
168 100
99 49.9 39.7 59.5



#3
Chloromethane
Concen: 2.680 ug/l
RT: 2.178 min Scan# 75
Delta R.T. 0.110 min
Lab File: VY023651.D
Acq: 03 Nov 2025 12:16

Tgt Ion: 50 Resp: 18889
Ion Ratio Lower Upper
50 100
52 19.0 26.2 39.2#





#11

Tert butyl alcohol

Concen: 60.996 ug/l

RT: 4.860 min Scan# 515

Delta R.T. 0.000 min

Lab File: VY023651.D

Acq: 03 Nov 2025 12:16

Instrument :

MSVOA_Y

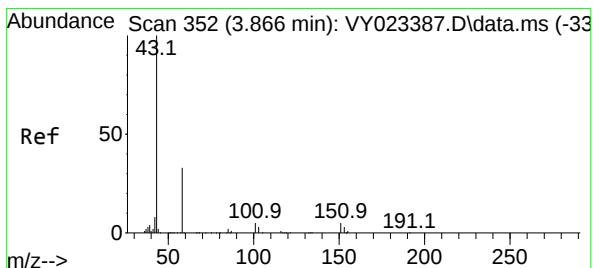
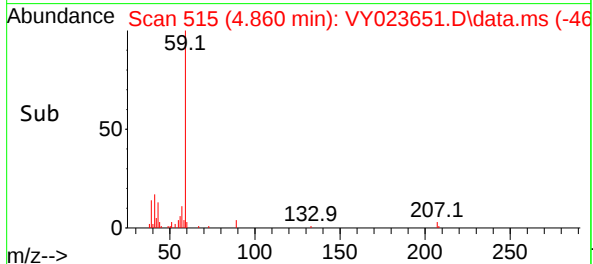
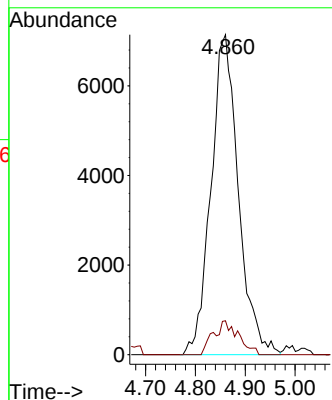
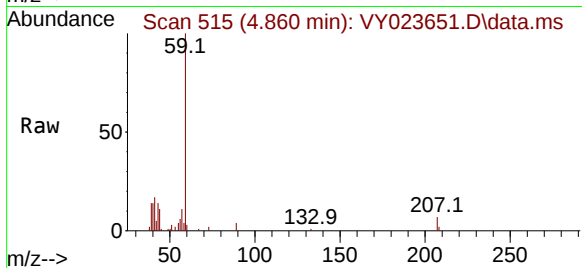
ClientSampleId :

Tgt Ion: 59 Resp: 27273

Ion Ratio Lower Upper

59 100

57 9.6 8.3 12.5



#16

Acetone

Concen: 12.918 ug/l

RT: 3.879 min Scan# 354

Delta R.T. 0.012 min

Lab File: VY023651.D

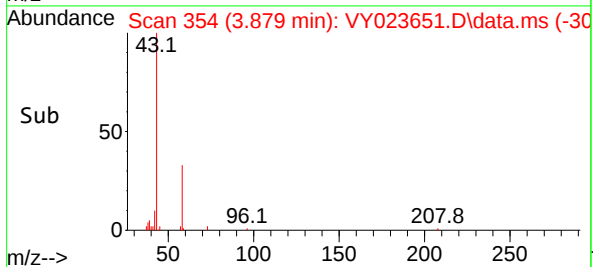
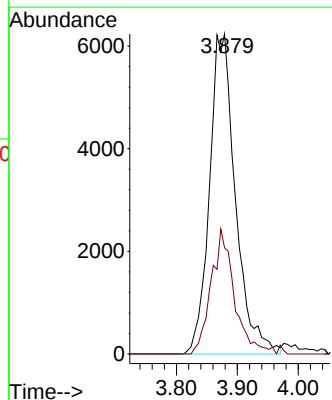
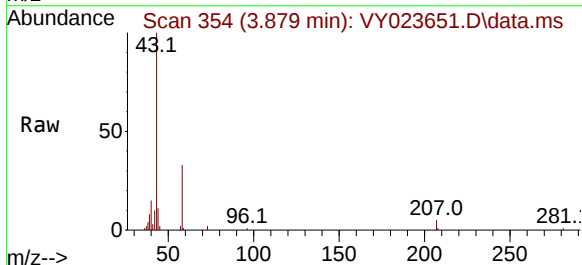
Acq: 03 Nov 2025 12:16

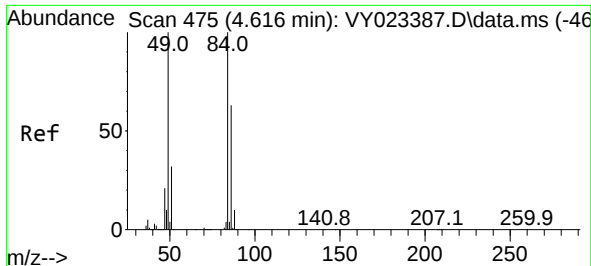
Tgt Ion: 43 Resp: 18484

Ion Ratio Lower Upper

43 100

58 33.2 27.7 41.5

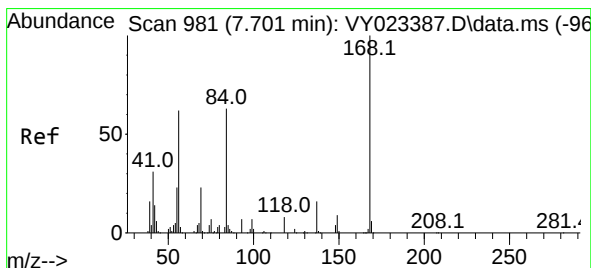
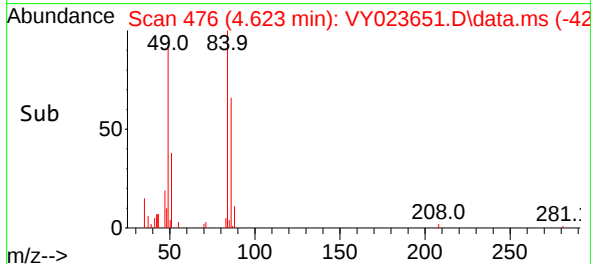
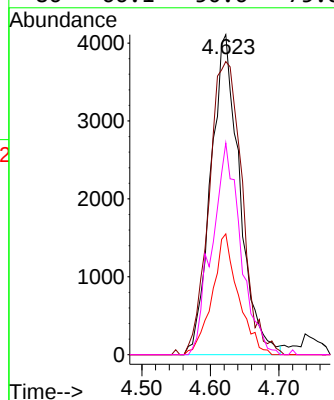
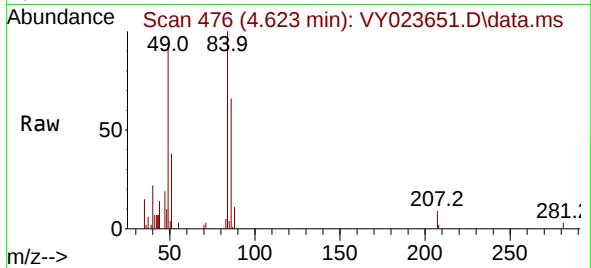




#20
Methylene Chloride
Concen: 1.552 ug/l
RT: 4.623 min Scan# 41
Delta R.T. 0.006 min
Lab File: VY023651.D
Acq: 03 Nov 2025 12:16

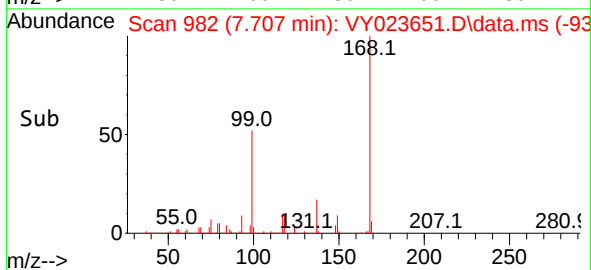
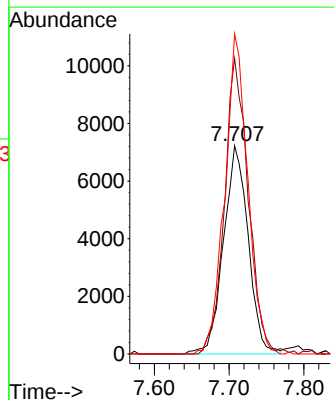
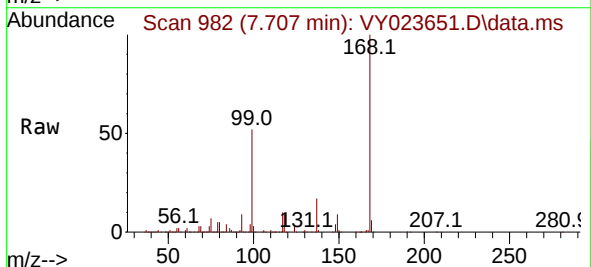
Instrument :
MSVOA_Y
ClientSampleId :

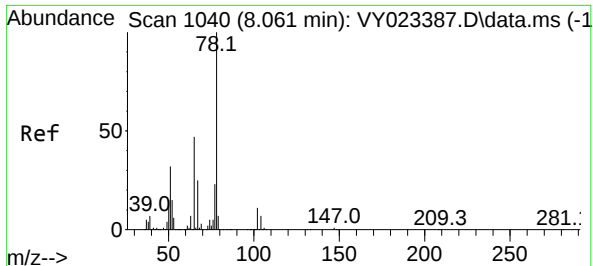
Tgt Ion: 84	Resp: 12007
Ion Ratio	Lower Upper
84 100	
49 91.6	80.2 120.4
51 37.7	25.9 38.9
86 66.1	50.6 75.8



#31
Cyclohexane
Concen: 1.665 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.006 min
Lab File: VY023651.D
Acq: 03 Nov 2025 12:16

Tgt Ion: 56	Resp: 16648		
Ion Ratio	Lower	Upper	
56	100		
69	142.1	30.0	45.0#
84	153.8	81.2	121.8#





#33

1,2-Dichloroethane-d4

Concen: 52.732 ug/l

RT: 8.067 min Scan# 11040

Delta R.T. 0.006 min

Lab File: VY023651.D

Acq: 03 Nov 2025 12:16

Instrument :

MSVOA_Y

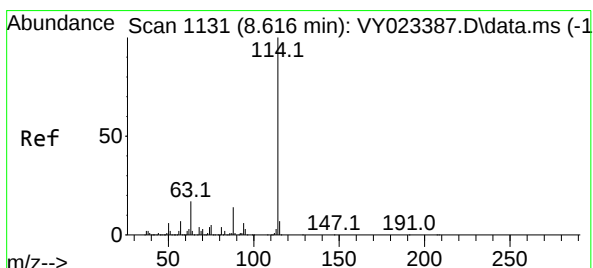
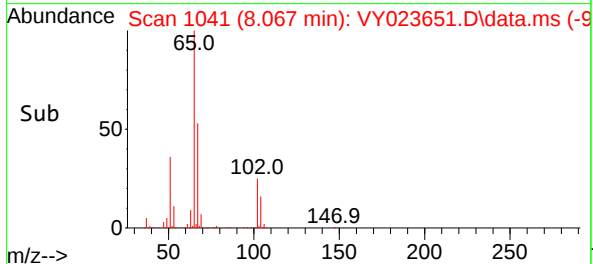
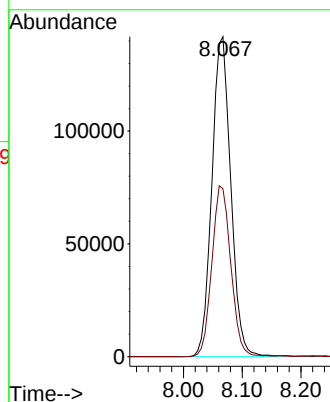
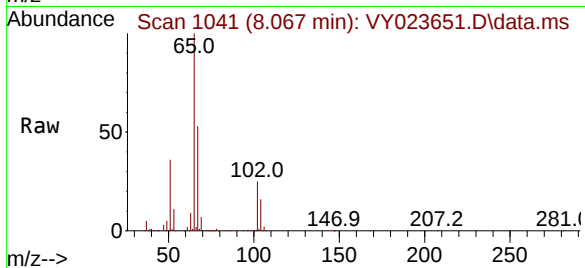
ClientSampleId :

Tgt Ion: 65 Resp: 316931

Ion Ratio Lower Upper

65 100

67 53.5 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: VY023651.D

Acq: 03 Nov 2025 12:16

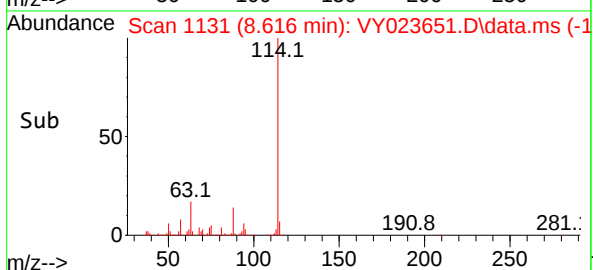
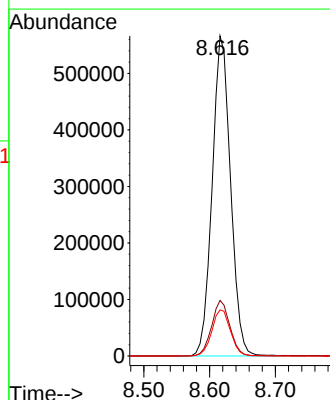
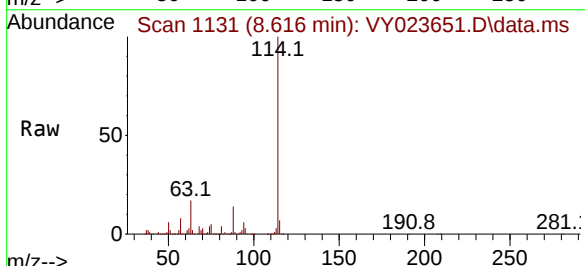
Tgt Ion: 114 Resp: 1101215

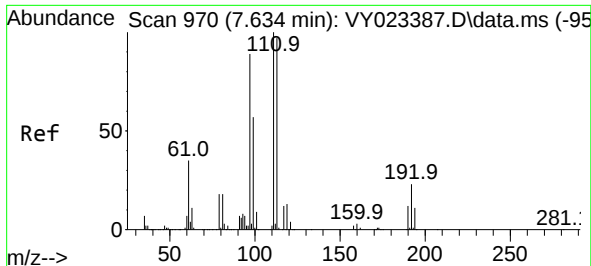
Ion Ratio Lower Upper

114 100

63 17.3 0.0 34.2

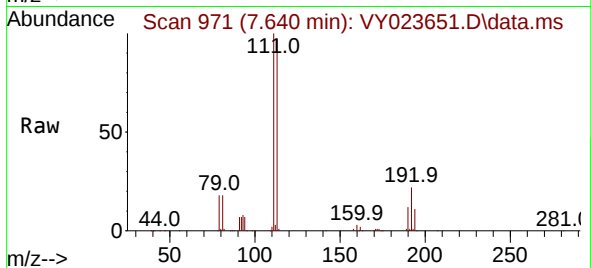
88 14.4 0.0 28.4



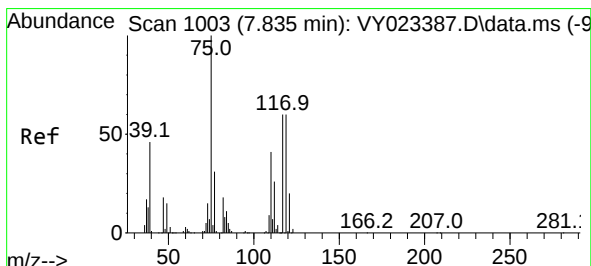
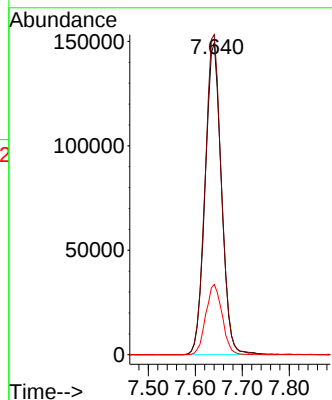
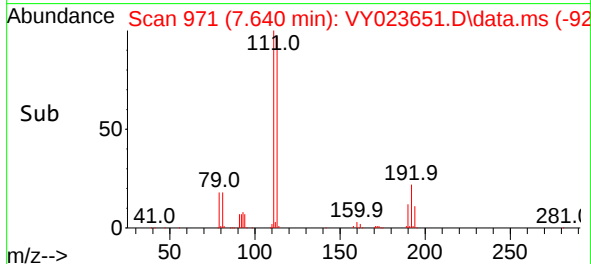


#35
Dibromofluoromethane
Concen: 53.033 ug/l
RT: 7.640 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023651.D
Acq: 03 Nov 2025 12:16

Instrument :
MSVOA_Y
ClientSampleId :

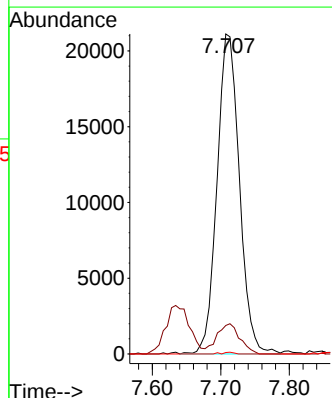
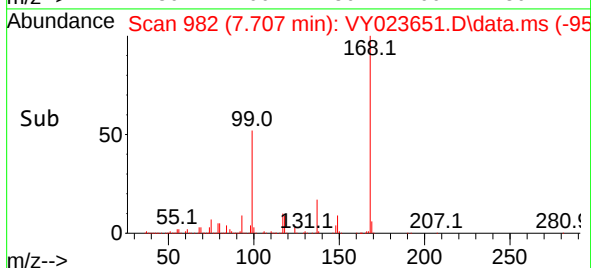
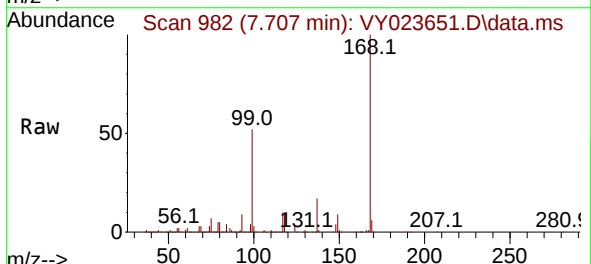


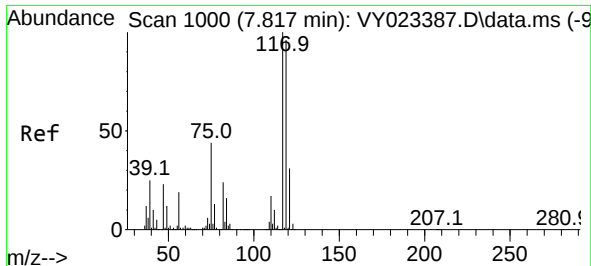
Tgt Ion:113 Resp: 358845
Ion Ratio Lower Upper
113 100
111 102.6 81.8 122.6
192 22.6 18.0 27.0



#36
1,1-Dichloropropene
Concen: 5.344 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.128 min
Lab File: VY023651.D
Acq: 03 Nov 2025 12:16

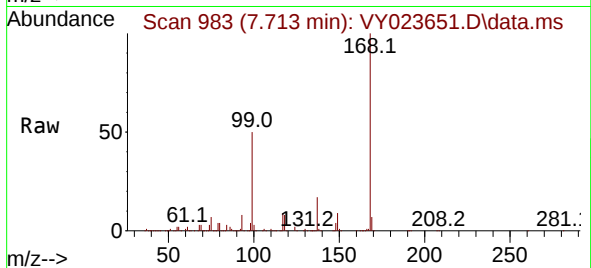
Tgt Ion: 75 Resp: 47870
Ion Ratio Lower Upper
75 100
110 9.7 19.9 59.7#
77 0.3 25.0 37.6#



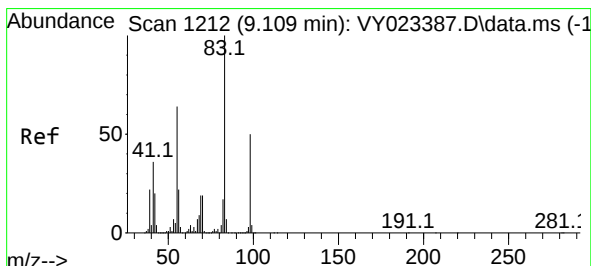
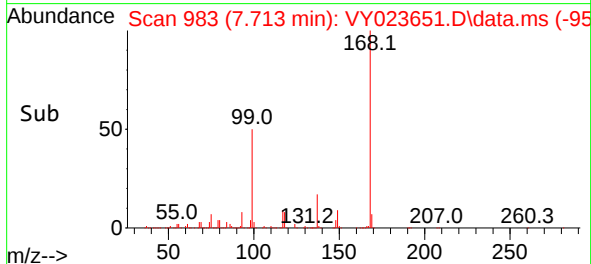
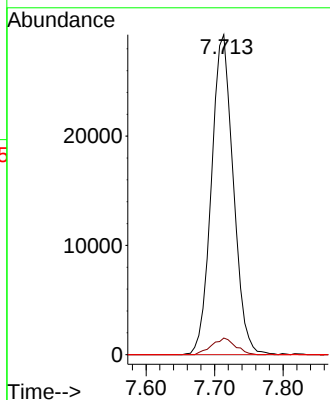


#38
Carbon Tetrachloride
Concen: 5.975 ug/l
RT: 7.713 min Scan# 91
Delta R.T. -0.104 min
Lab File: VY023651.D
Acq: 03 Nov 2025 12:16

Instrument :
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ClientSampleId :

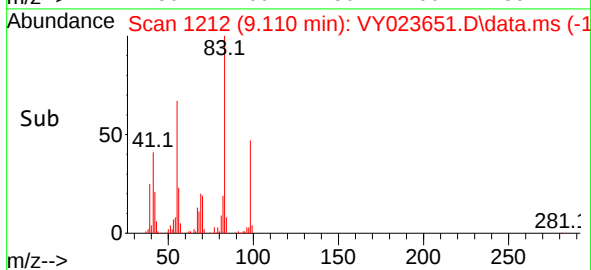
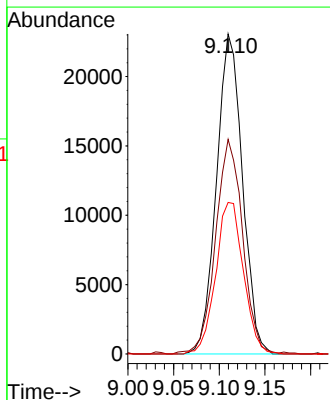
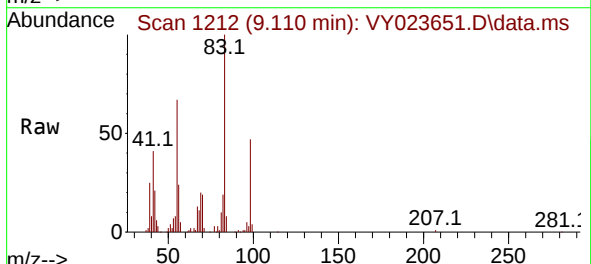


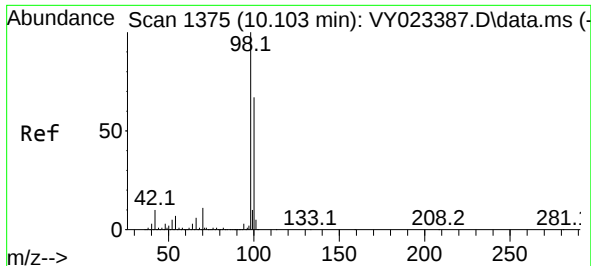
Tgt Ion:117 Resp: 64906
Ion Ratio Lower Upper
117 100
119 5.2 76.8 115.2#
121 0.0 24.5 36.7#



#39
Methylcyclohexane
Concen: 3.914 ug/l
RT: 9.110 min Scan# 1212
Delta R.T. 0.000 min
Lab File: VY023651.D
Acq: 03 Nov 2025 12:16

Tgt Ion: 83 Resp: 45657
Ion Ratio Lower Upper
83 100
55 66.8 51.4 77.2
98 47.3 40.4 60.6

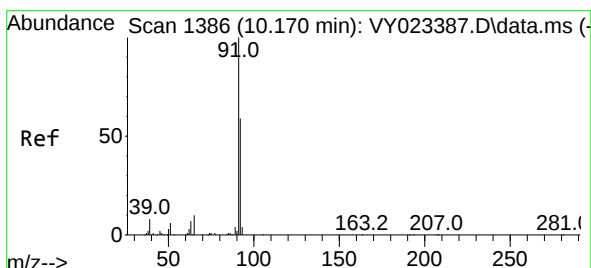
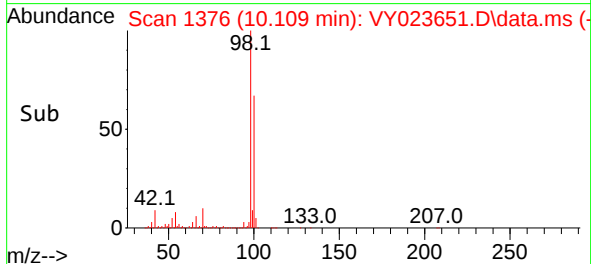
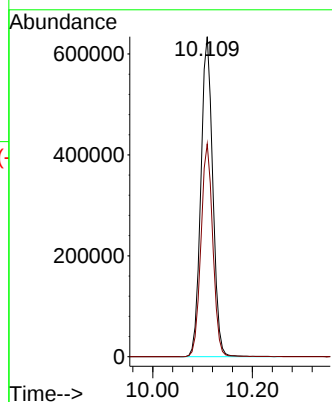
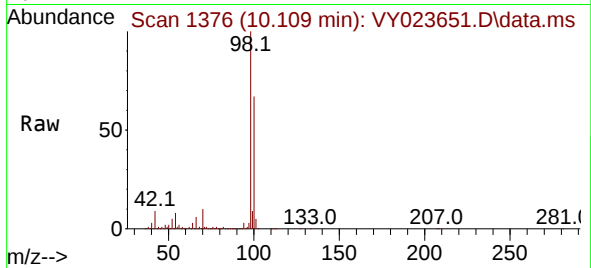




#50
Toluene-d8
Concen: 41.718 ug/l
RT: 10.109 min Scan# 1375
Delta R.T. 0.006 min
Lab File: VY023651.D
Acq: 03 Nov 2025 12:16

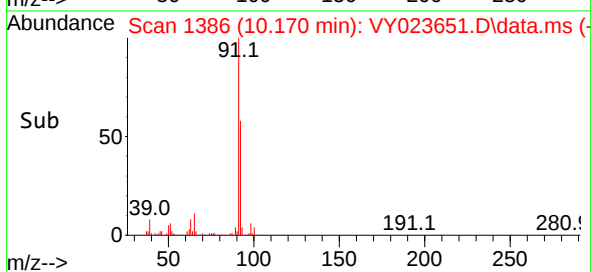
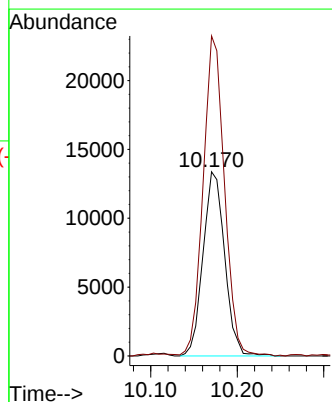
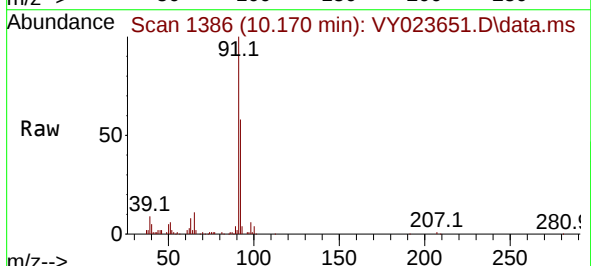
Instrument :
MSVOA_Y
ClientSampleId :

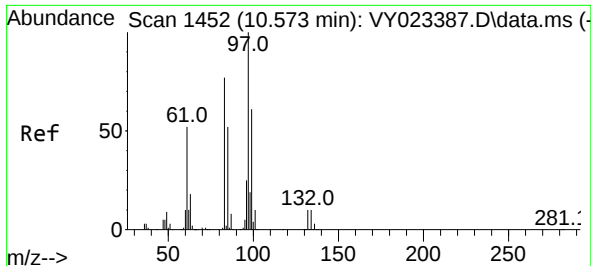
Tgt Ion: 98 Resp: 1051260
Ion Ratio Lower Upper
98 100
100 66.1 53.0 79.4



#52
Toluene
Concen: 1.262 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY023651.D
Acq: 03 Nov 2025 12:16

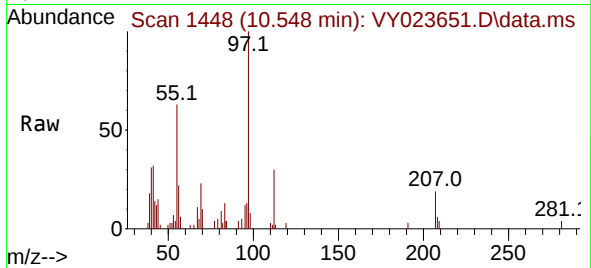
Tgt Ion: 92 Resp: 23241
Ion Ratio Lower Upper
92 100
91 171.1 136.4 204.6



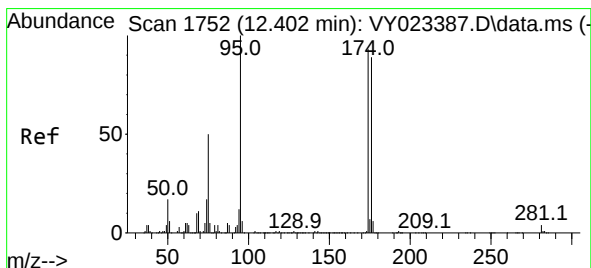
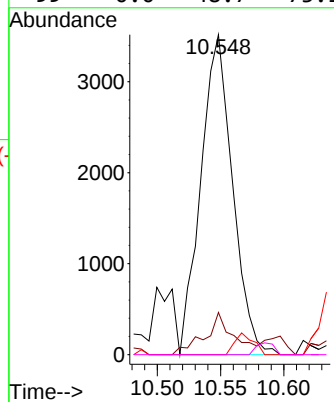
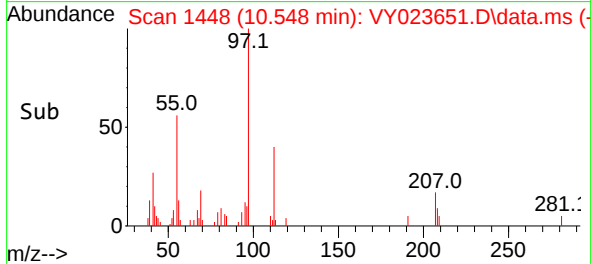


#55
1,1,2-Trichloroethane
Concen: 1.153 ug/l
RT: 10.548 min Scan# 1452
Delta R.T. -0.024 min
Lab File: VY023651.D
Acq: 03 Nov 2025 12:16

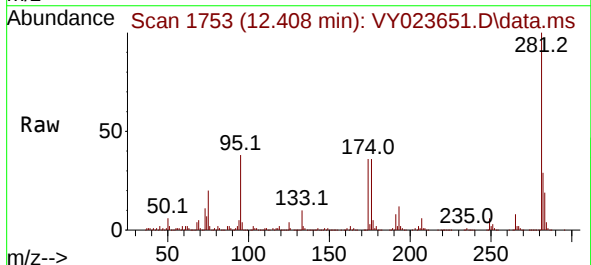
Instrument :
MSVOA_Y
ClientSampleId :



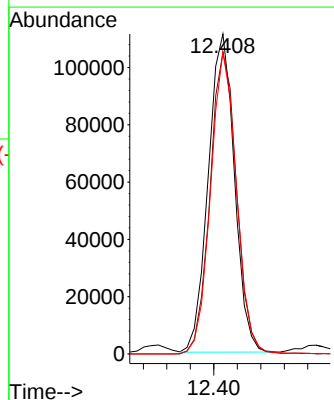
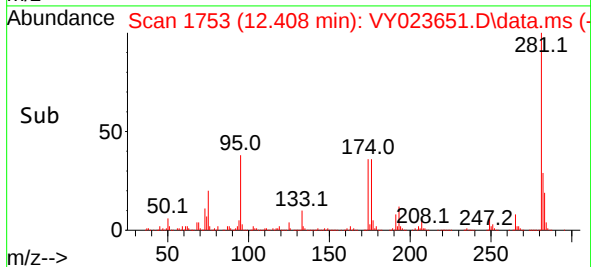
Tgt Ion: 97	Resp: 6142
Ion Ratio	Lower Upper
97 100	
83 10.9	61.8 92.6#
85 0.0	41.3 61.9#
99 0.0	48.7 73.1#

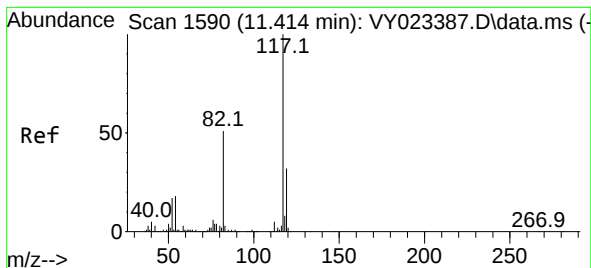


#62
4-Bromofluorobenzene
Concen: 20.616 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023651.D
Acq: 03 Nov 2025 12:16



Tgt Ion: 95	Resp: 171514
Ion Ratio	Lower Upper
95 100	
174 95.9	0.0 192.8
176 94.1	0.0 187.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 1591

Delta R.T. 0.006 min

Lab File: VY023651.D

Acq: 03 Nov 2025 12:16

Instrument :

MSVOA_Y

ClientSampleId :

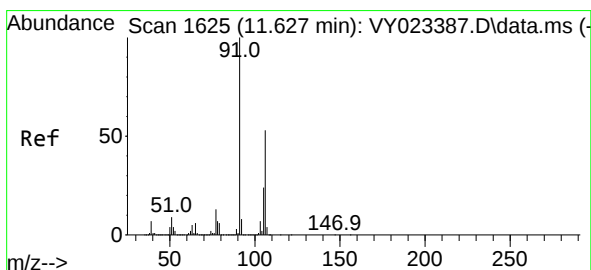
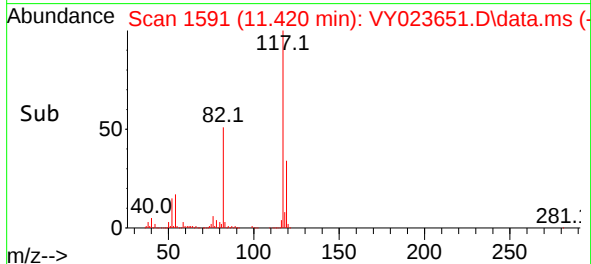
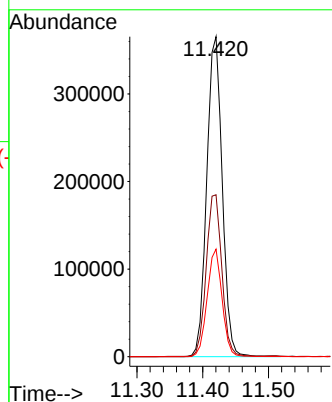
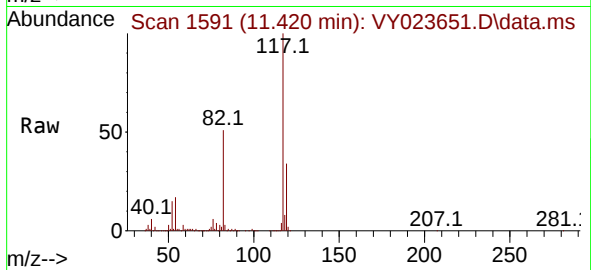
Tgt Ion:117 Resp: 599022

Ion Ratio Lower Upper

117 100

82 50.5 41.0 61.4

119 33.6 25.6 38.4



#68

m/p-Xylenes

Concen: 3.819 ug/l

RT: 11.627 min Scan# 1625

Delta R.T. 0.000 min

Lab File: VY023651.D

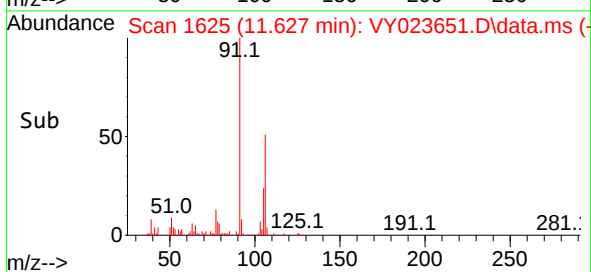
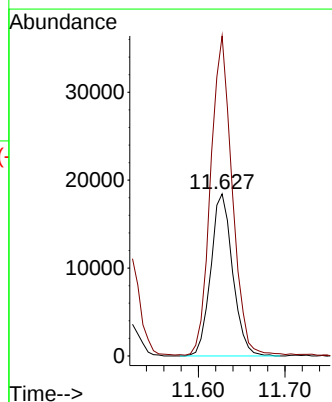
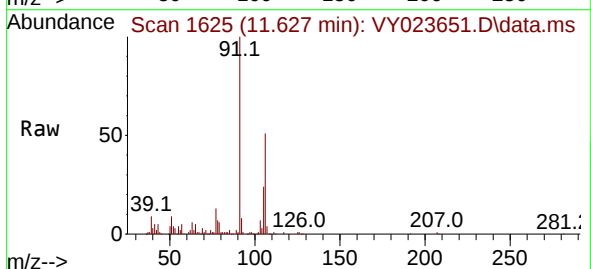
Acq: 03 Nov 2025 12:16

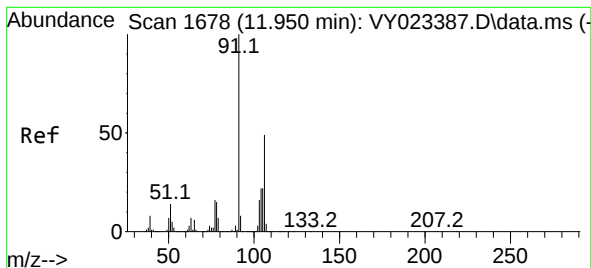
Tgt Ion:106 Resp: 32304

Ion Ratio Lower Upper

106 100

91 193.8 152.6 229.0





#69

o-Xylene

Concen: 2.042 ug/l

RT: 11.957 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY023651.D

Acq: 03 Nov 2025 12:16

Instrument :

MSVOA_Y

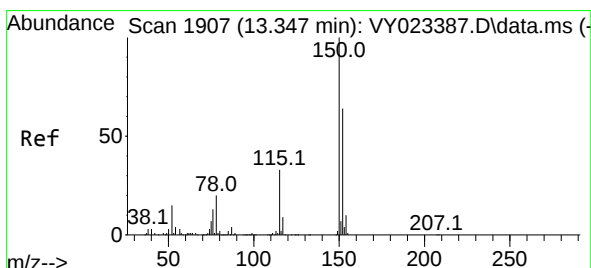
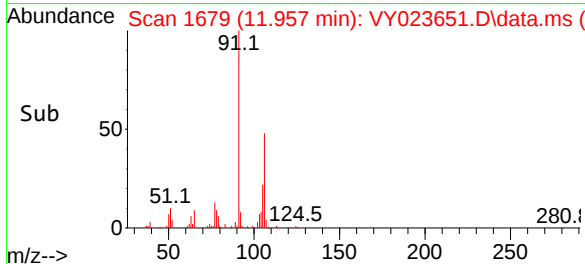
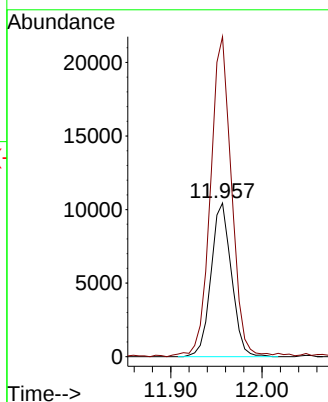
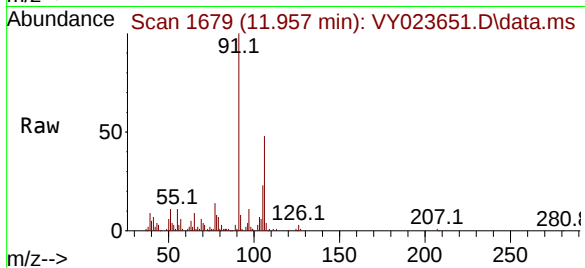
ClientSampleId :

Tgt Ion:106 Resp: 16198

Ion Ratio Lower Upper

106 100

91 215.0 101.4 304.1



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY023651.D

Acq: 03 Nov 2025 12:16

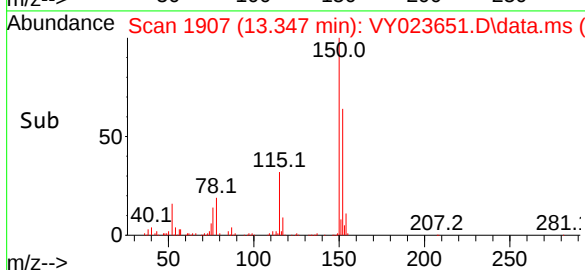
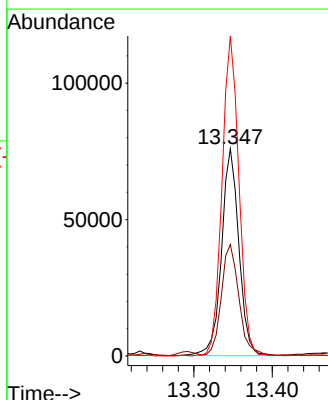
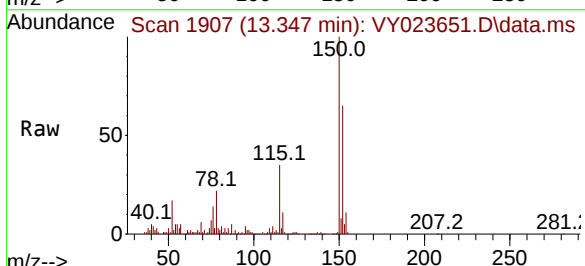
Tgt Ion:152 Resp: 117035

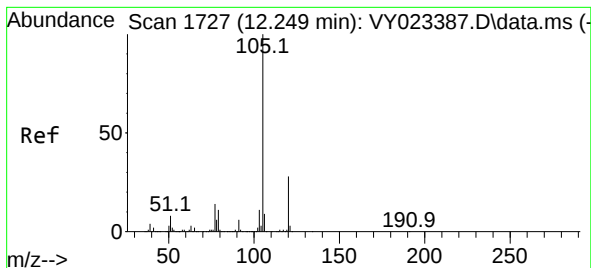
Ion Ratio Lower Upper

152 100

115 54.7 27.1 81.2

150 150.3 0.0 347.4





#73

Isopropylbenzene

Concen: 1.346 ug/l

RT: 12.255 min Scan# 1727

Delta R.T. 0.006 min

Lab File: VY023651.D

Acq: 03 Nov 2025 12:16

Instrument :

MSVOA_Y

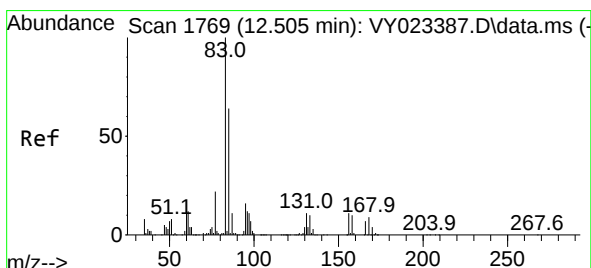
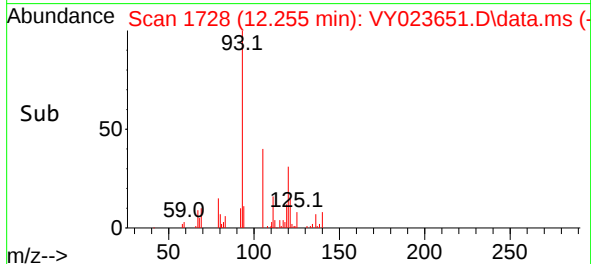
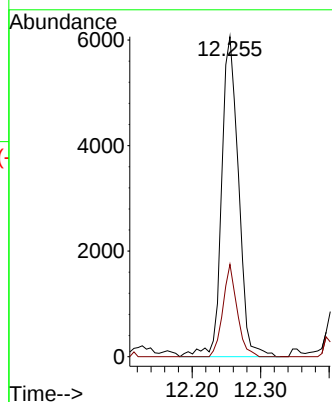
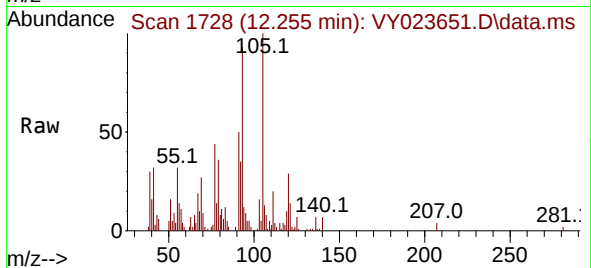
ClientSampleId :

Tgt Ion:105 Resp: 10384

Ion Ratio Lower Upper

105 100

120 24.2 13.9 41.7



#75

1,1,2,2-Tetrachloroethane

Concen: 1.327 ug/l

RT: 12.463 min Scan# 1762

Delta R.T. -0.043 min

Lab File: VY023651.D

Acq: 03 Nov 2025 12:16

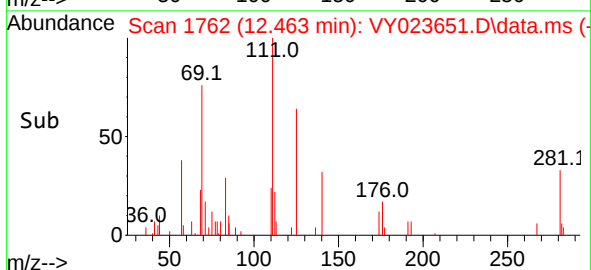
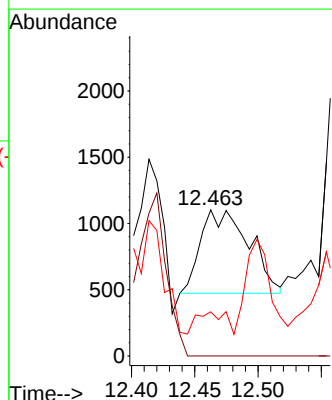
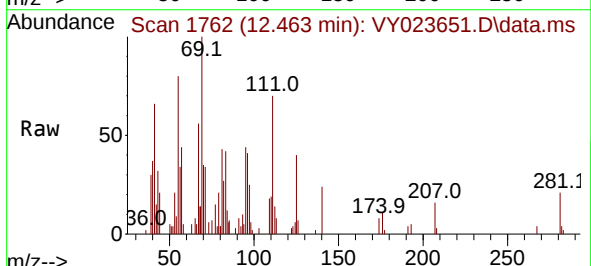
Tgt Ion: 83 Resp: 1674

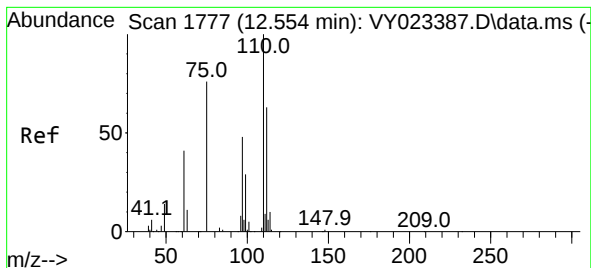
Ion Ratio Lower Upper

83 100

131 0.0 5.9 17.6#

85 16.1 31.8 95.3#





#76

1,2,3-Trichloropropane

Concen: 89.847 ug/l

RT: 12.408 min Scan# 1777

Delta R.T. -0.146 min

Lab File: VY023651.D

Acq: 03 Nov 2025 12:16

Instrument :

MSVOA_Y

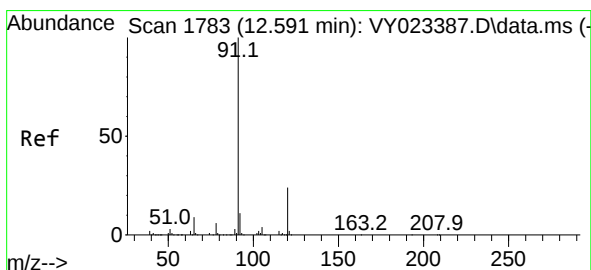
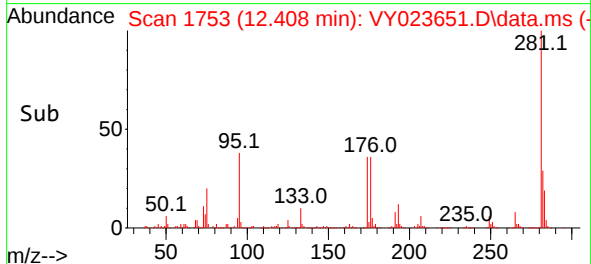
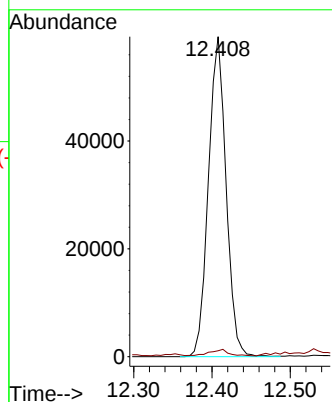
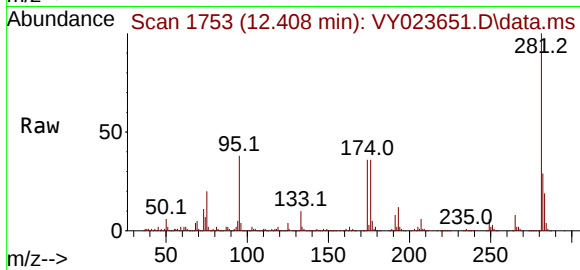
ClientSampleId :

Tgt Ion: 75 Resp: 92773

Ion Ratio Lower Upper

75 100

77 2.1 0.0 0.0#



#78

n-propylbenzene

Concen: 1.750 ug/l

RT: 12.597 min Scan# 1784

Delta R.T. 0.006 min

Lab File: VY023651.D

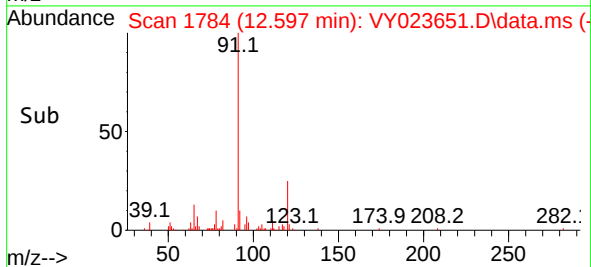
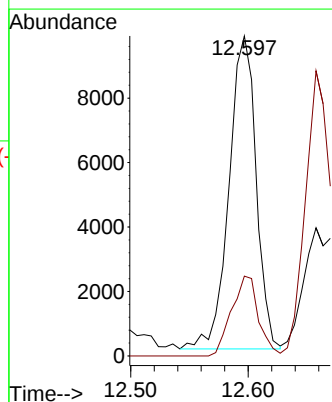
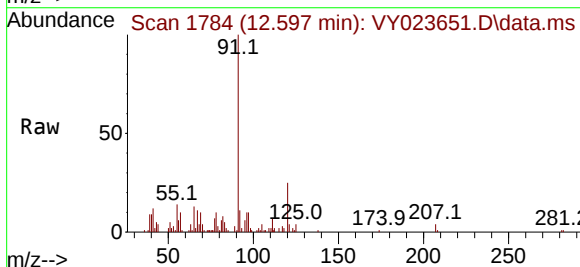
Acq: 03 Nov 2025 12:16

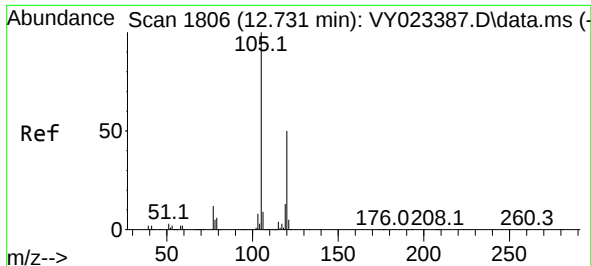
Tgt Ion: 91 Resp: 15615

Ion Ratio Lower Upper

91 100

120 25.2 12.3 36.8

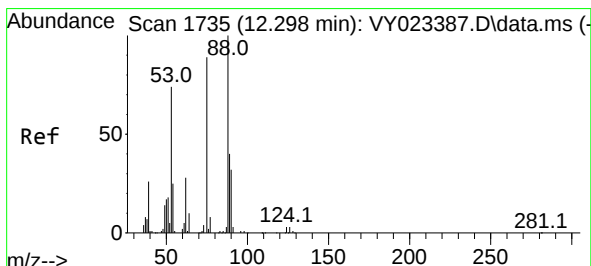
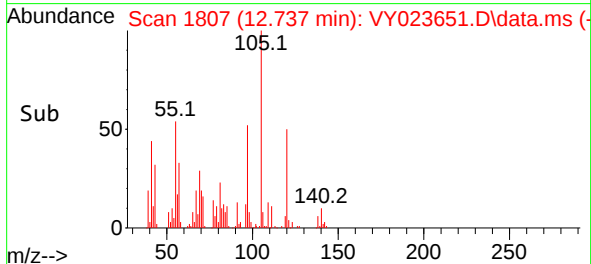
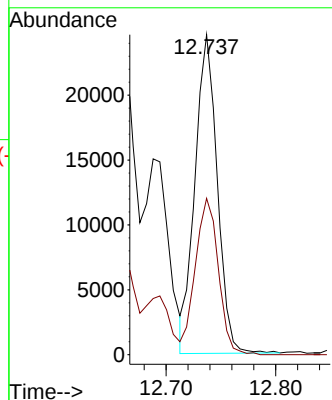
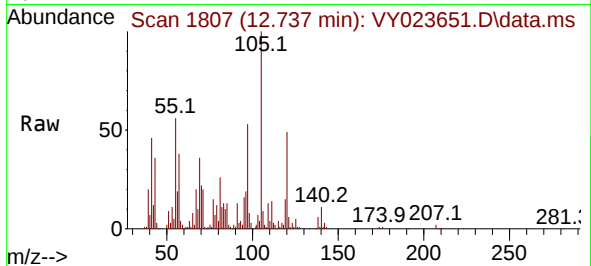




#80
1,3,5-Trimethylbenzene
Concen: 5.560 ug/l
RT: 12.737 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023651.D
Acq: 03 Nov 2025 12:16

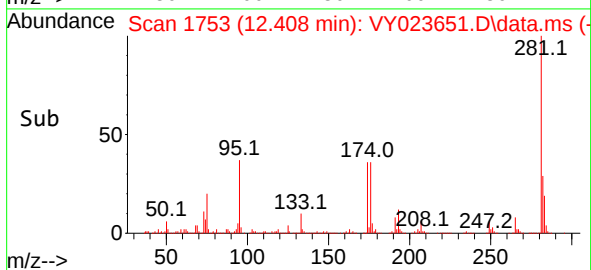
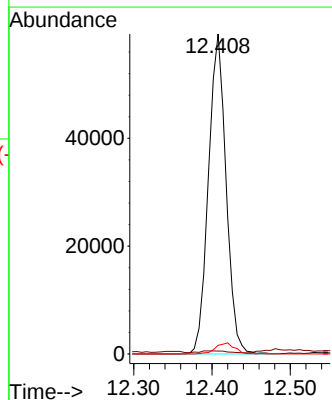
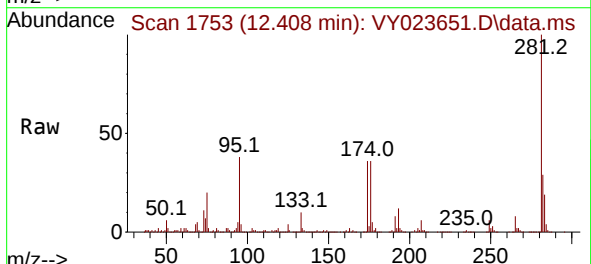
Instrument :
MSVOA_Y
ClientSampleId :

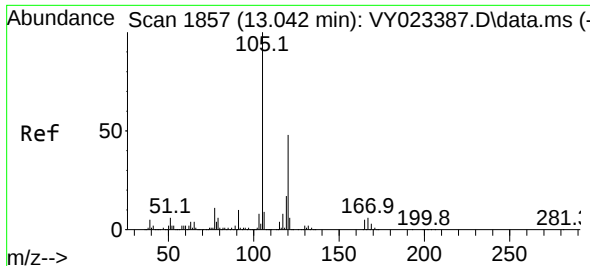
Tgt Ion:105 Resp: 34652
Ion Ratio Lower Upper
105 100
120 50.9 25.4 76.4



#81
trans-1,4-Dichloro-2-butene
Concen: 220.323 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.110 min
Lab File: VY023651.D
Acq: 03 Nov 2025 12:16

Tgt Ion: 75 Resp: 92773
Ion Ratio Lower Upper
75 100
53 0.9 68.6 102.8#
89 3.7 39.0 58.4#

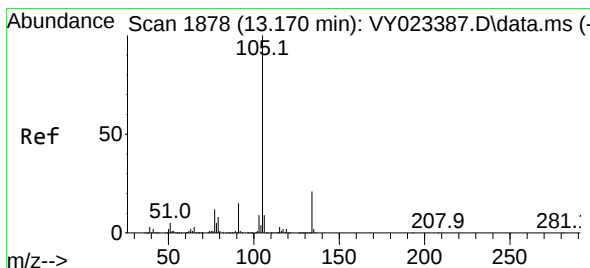
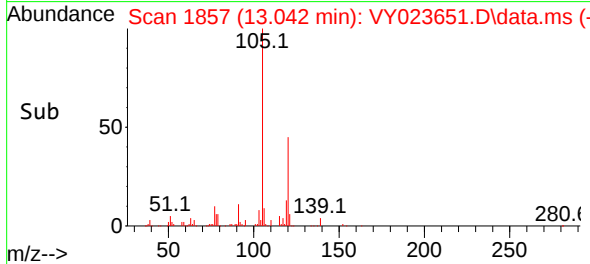
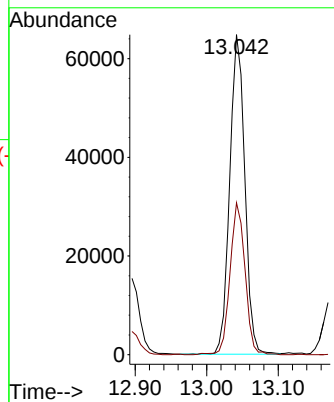
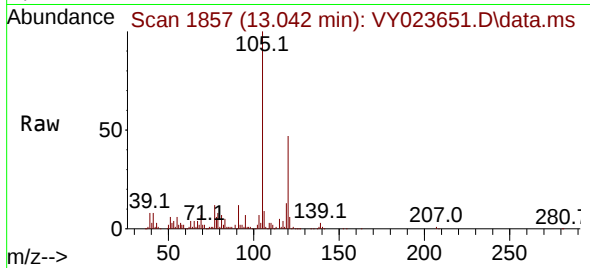




#84
1,2,4-Trimethylbenzene
Concen: 15.210 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY023651.D
Acq: 03 Nov 2025 12:16

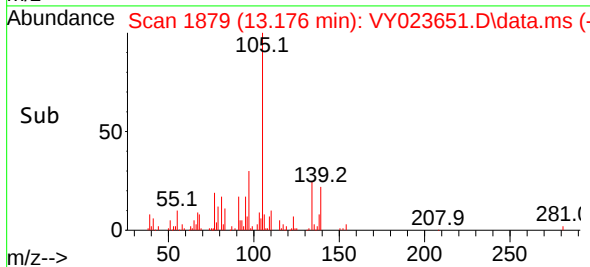
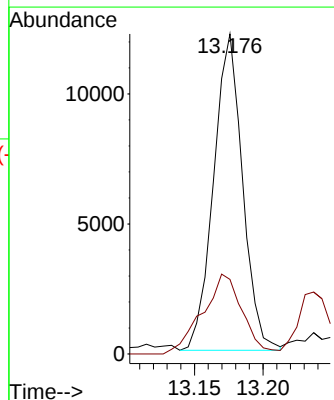
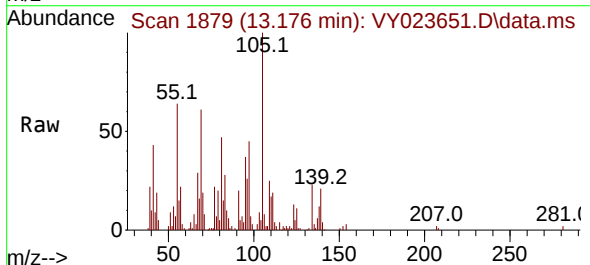
Instrument :
MSVOA_Y
ClientSampleId :

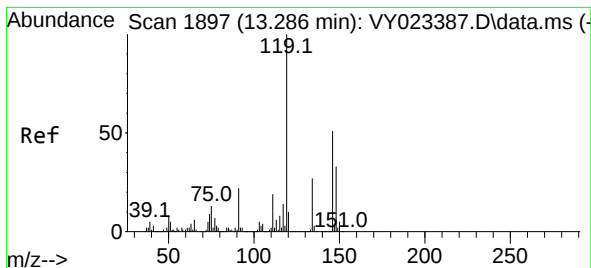
Tgt Ion:105 Resp: 94607
Ion Ratio Lower Upper
105 100
120 47.4 23.8 71.2



#85
sec-Butylbenzene
Concen: 2.165 ug/l
RT: 13.176 min Scan# 1879
Delta R.T. 0.006 min
Lab File: VY023651.D
Acq: 03 Nov 2025 12:16

Tgt Ion:105 Resp: 17870
Ion Ratio Lower Upper
105 100
134 34.7 10.7 32.1#





#86

p-Isopropyltoluene

Concen: 4.568 ug/l

RT: 13.292 min Scan# 119

Delta R.T. 0.006 min

Lab File: VY023651.D

Acq: 03 Nov 2025 12:16

Instrument :

MSVOA_Y

ClientSampleId :

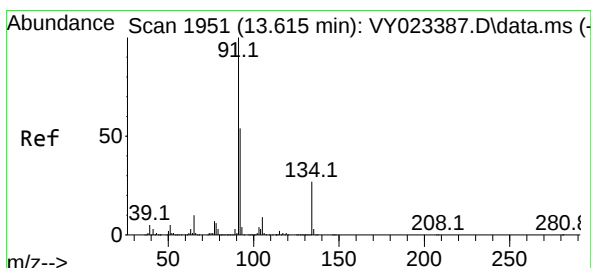
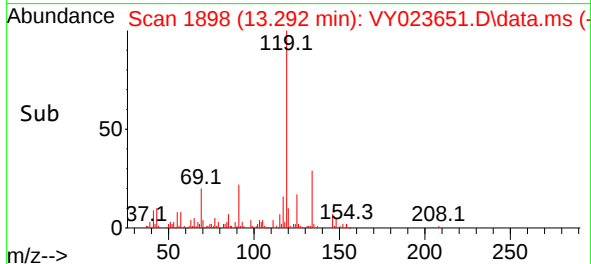
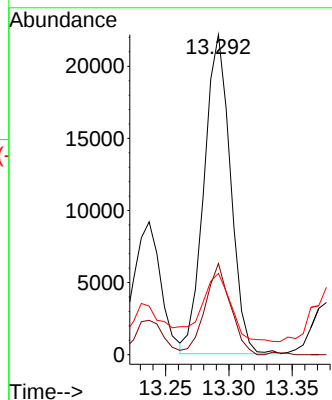
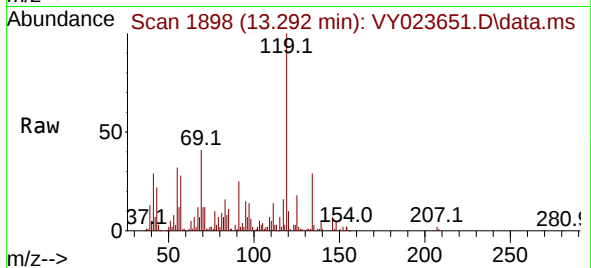
Tgt Ion:119 Resp: 32105

Ion Ratio Lower Upper

119 100

134 27.4 13.6 40.7

91 22.2 10.9 32.9



#89

n-Butylbenzene

Concen: 1.653 ug/l

RT: 13.615 min Scan# 1951

Delta R.T. 0.000 min

Lab File: VY023651.D

Acq: 03 Nov 2025 12:16

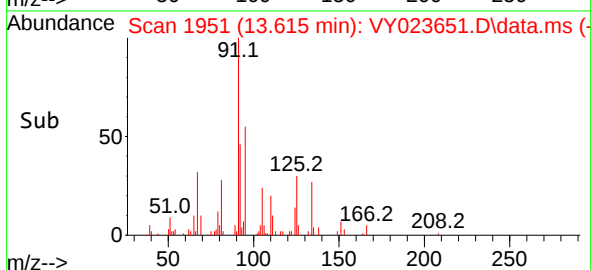
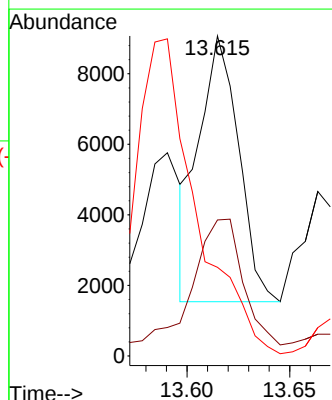
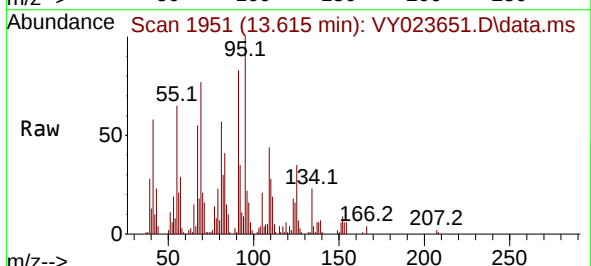
Tgt Ion: 91 Resp: 10120

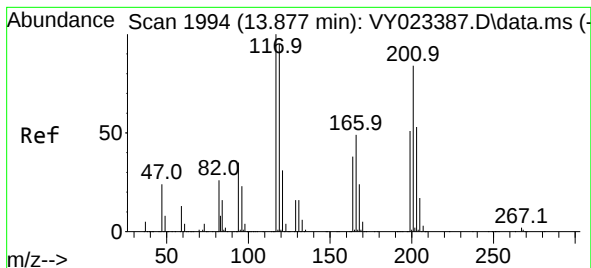
Ion Ratio Lower Upper

91 100

92 58.8 27.0 80.8

134 0.0 14.1 42.2#





#90

Hexachloroethane

Concen: 2.074 ug/l

RT: 13.895 min Scan# 1994

Delta R.T. 0.018 min

Lab File: VY023651.D

Acq: 03 Nov 2025 12:16

Instrument :

MSVOA_Y

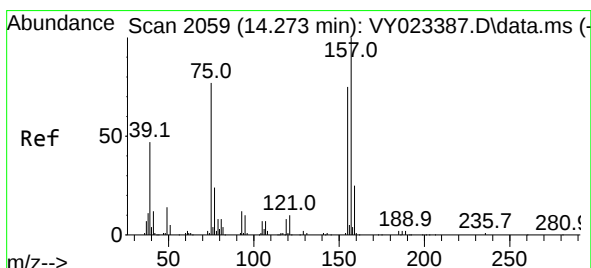
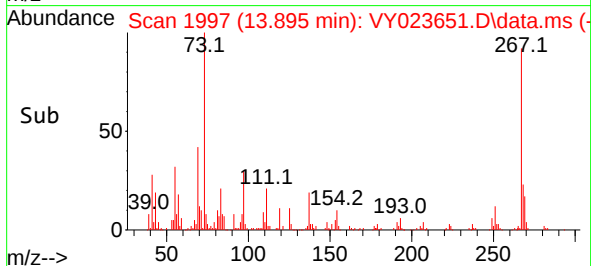
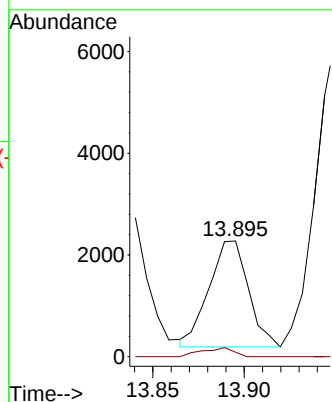
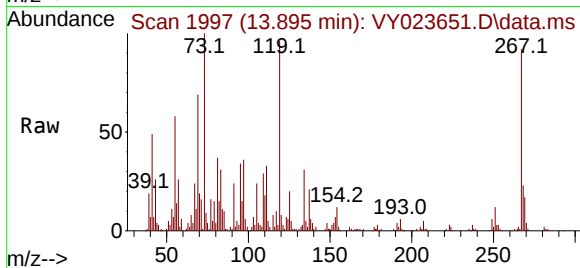
ClientSampleId :

Tgt Ion:117 Resp: 3135

Ion Ratio Lower Upper

117 100

201 6.8 43.8 131.4#



#92

1,2-Dibromo-3-Chloropropane

Concen: 1.739 ug/l

RT: 14.292 min Scan# 2062

Delta R.T. 0.018 min

Lab File: VY023651.D

Acq: 03 Nov 2025 12:16

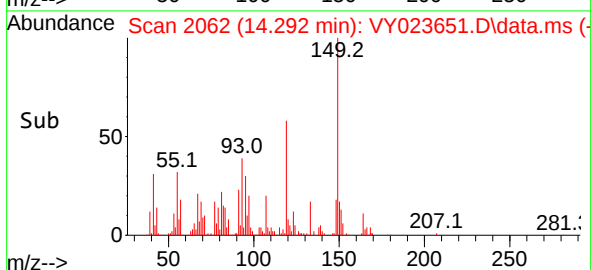
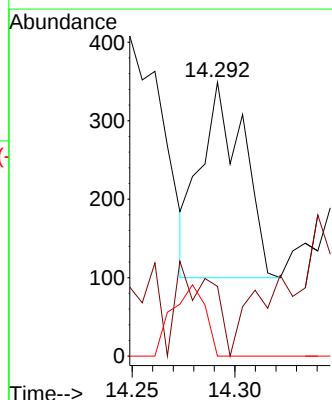
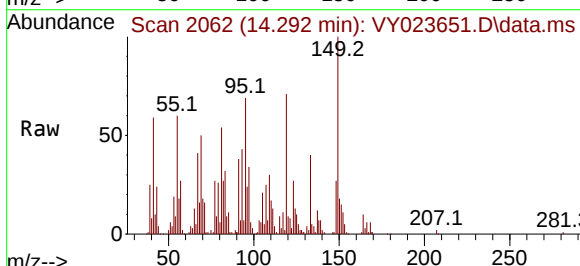
Tgt Ion: 75 Resp: 360

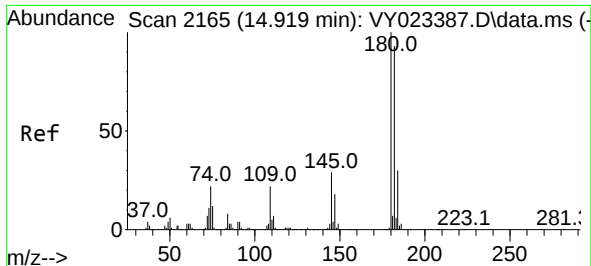
Ion Ratio Lower Upper

75 100

155 38.6 50.0 150.0#

157 28.3 63.8 191.5#

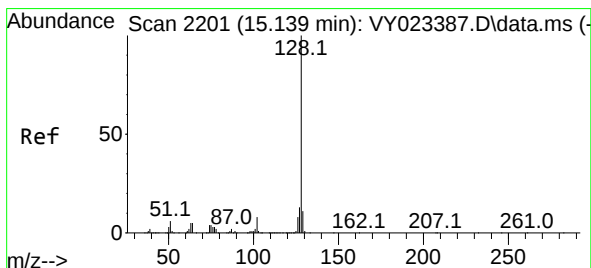
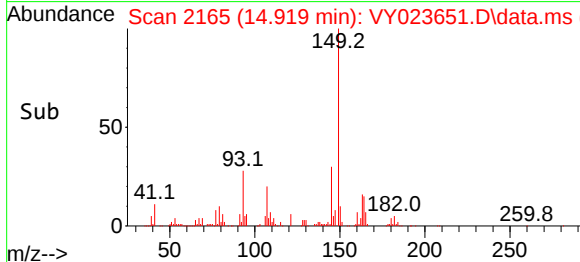
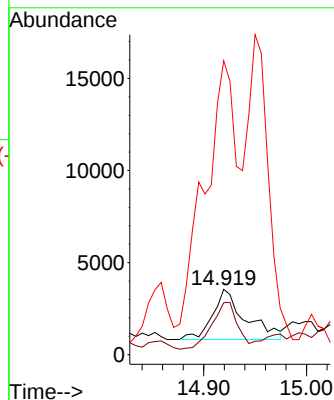
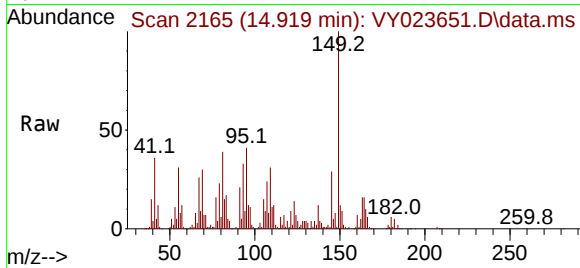




#93
1,2,4-Trichlorobenzene
Concen: 2.764 ug/l
RT: 14.919 min Scan# 2165
Delta R.T. 0.000 min
Lab File: VY023651.D
Acq: 03 Nov 2025 12:16

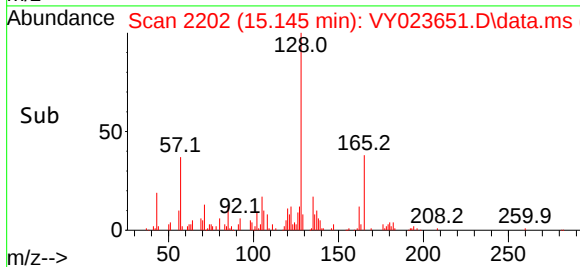
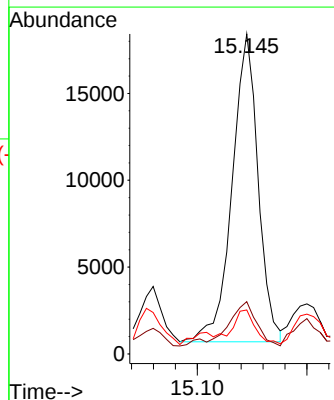
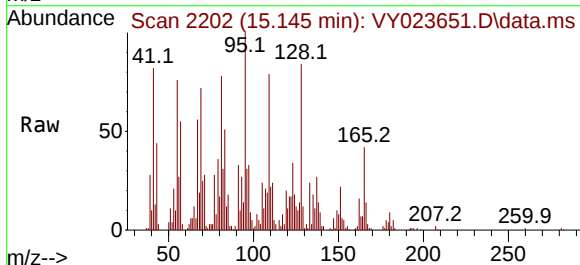
Instrument :
MSVOA_Y
ClientSampleId :

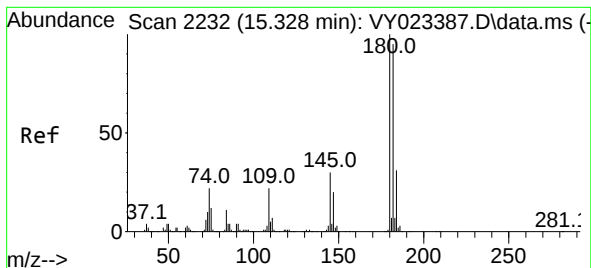
Tgt Ion:180 Resp: 6031
Ion Ratio Lower Upper
180 100
182 75.9 47.9 143.6
145 612.2 14.7 44.1#



#95
Naphthalene
Concen: 8.401 ug/l
RT: 15.145 min Scan# 2202
Delta R.T. 0.006 min
Lab File: VY023651.D
Acq: 03 Nov 2025 12:16

Tgt Ion:128 Resp: 29196
Ion Ratio Lower Upper
128 100
127 16.2 10.4 15.6#
129 8.3 8.9 13.3#





#96

1,2,3-Trichlorobenzene

Concen: 3.717 ug/l

RT: 15.346 min Scan# 21

Delta R.T. 0.018 min

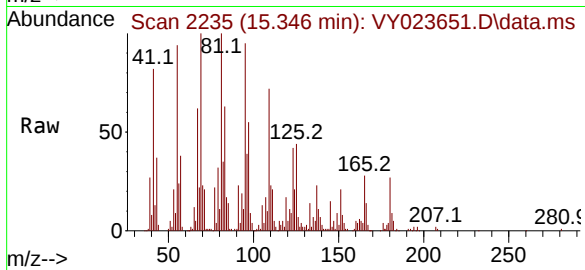
Lab File: VY023651.D

Acq: 03 Nov 2025 12:16

Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:180 Resp: 7027

Ion Ratio Lower Upper

180 100

182 0.0 47.9 143.8#

145 0.0 15.3 45.9#

