

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
 Data File : VY023069.D
 Acq On : 13 Aug 2025 14:55
 Operator : SY/MD
 Sample : Q2819-07
 Misc : 6.32g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 11M-N

Quant Time: Aug 14 01:24:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	499481	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	998493	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	877177	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	339290	50.000	ug/l	# 0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	316941	66.579	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	133.160%
35) Dibromofluoromethane	7.628	113	329759	55.193	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	110.380%
50) Toluene-d8	10.103	98	1198822	51.362	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	102.720%
62) 4-Bromofluorobenzene	12.401	95	378383	50.409	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	100.820%

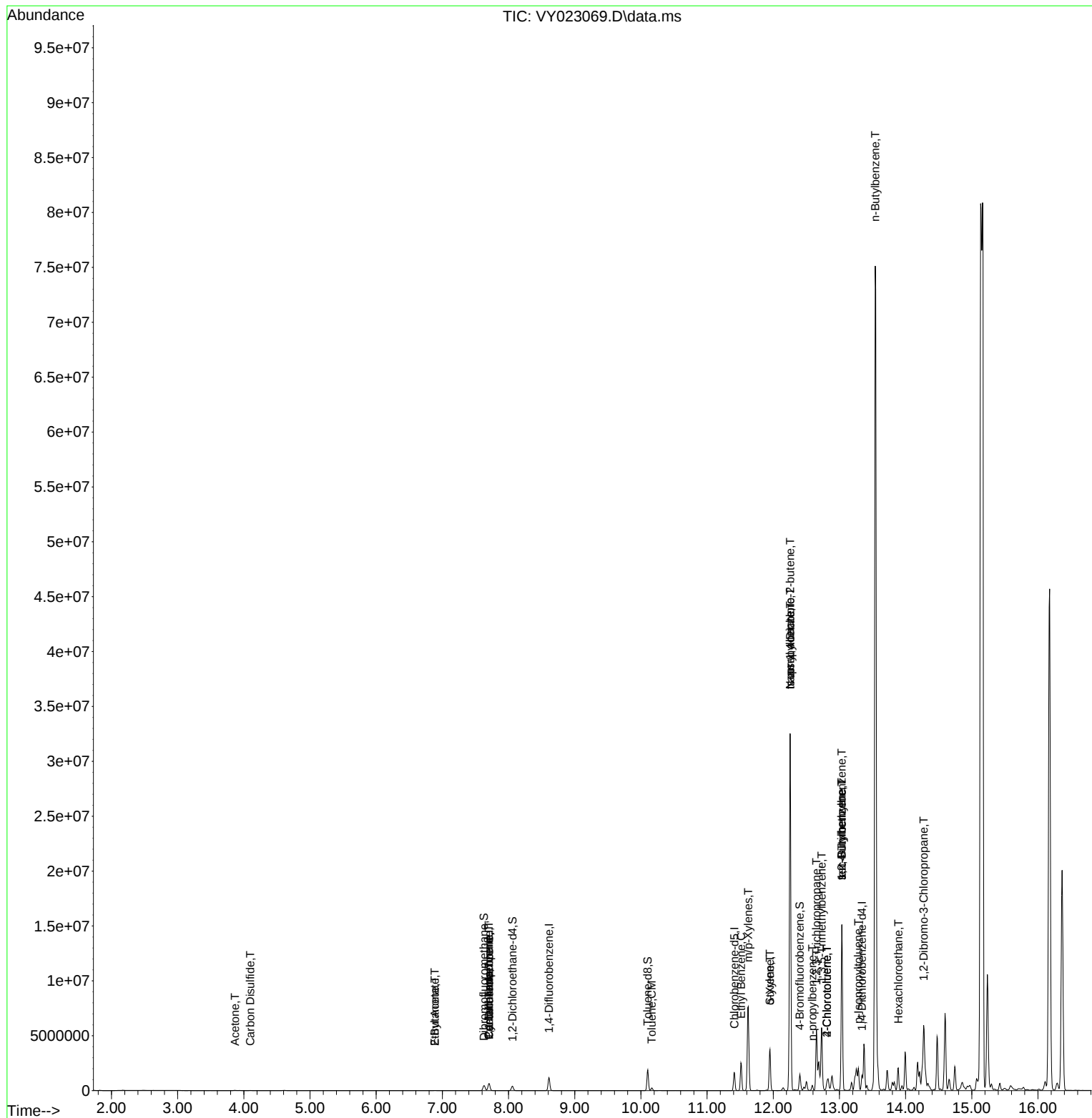
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.866	43	50603	49.067	ug/l	97
17) Carbon Disulfide	4.098	76	24835	1.582	ug/l	97
25) 2-Butanone	6.884	43	17580	12.534	ug/l	95
31) Cyclohexane	7.701	56	11278	1.272	ug/l	# 8
36) 1,1-Dichloropropene	7.701	75	39792	4.481	ug/l	# 49
37) Ethyl Acetate	6.884	43	17580	4.713	ug/l	# 68
38) Carbon Tetrachloride	7.701	117	48784	5.058	ug/l	# 17
52) Toluene	10.164	92	104466	6.010	ug/l	100
67) Ethyl Benzene	11.511	91	1711204	52.554	ug/l	99
68) m/p-Xylenes	11.621	106	2334647	183.584	ug/l	99
69) o-Xylene	11.950	106	979527	82.239	ug/l	98
70) Styrene	11.950	104	54628	2.805	ug/l	# 1
73) Isopropylbenzene	12.255	105	2066252	86.285	ug/l	76
74) N-amyl acetate	12.255	43	523882	103.160	ug/l	# 11
76) 1,2,3-Trichloropropane	12.651	75	28026	8.559	ug/l	# 100
78) n-propylbenzene	12.590	91	304969	10.697	ug/l	100
79) 2-Chlorotoluene	12.810	91	64981	3.978	ug/l	77
80) 1,3,5-Trimethylbenzene	12.731	105	2717714	140.425	ug/l	99
81) trans-1,4-Dichloro-2-b...	12.255	75	44097	32.599	ug/l	# 1
82) 4-Chlorotoluene	12.810	91	63624	3.755	ug/l	78
83) tert-Butylbenzene	13.035	119	985298	56.369	ug/l	# 67
84) 1,2,4-Trimethylbenzene	13.035	105	7563336	392.581	ug/l	96
85) sec-Butylbenzene	13.035	105	7563336	294.557	ug/l	# 56
86) p-Isopropyltoluene	13.285	119	1058617	49.669	ug/l	# 78
89) n-Butylbenzene	13.541	91	8872019	453.226	ug/l	# 43
90) Hexachloroethane	13.889	117	103728	23.774	ug/l	# 11
92) 1,2-Dibromo-3-Chloropr...	14.273	75	136619	214.601	ug/l	# 1

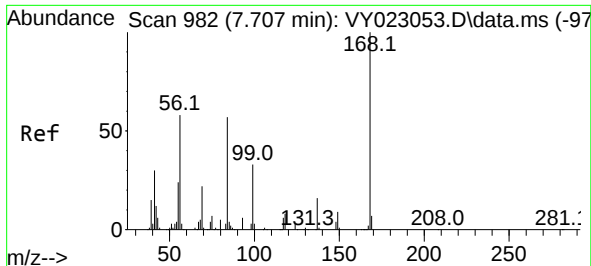
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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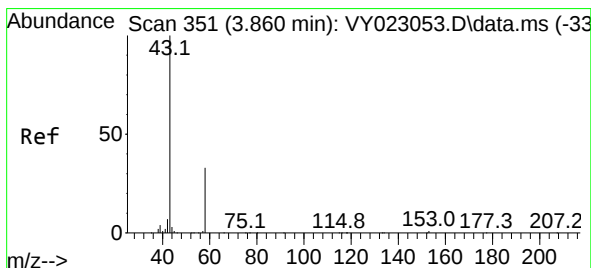
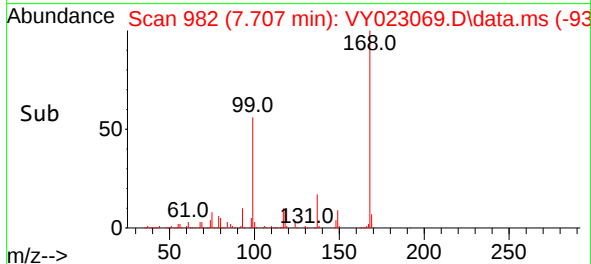
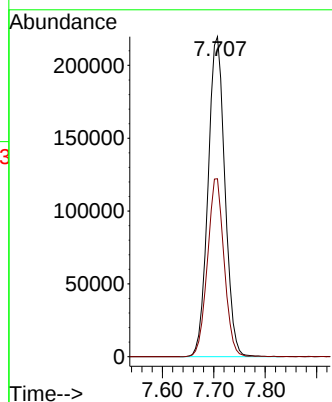
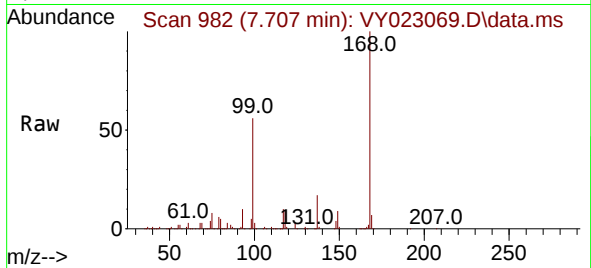




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

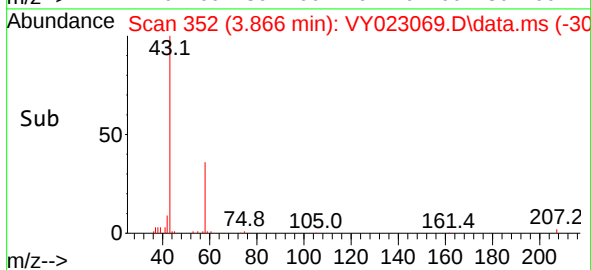
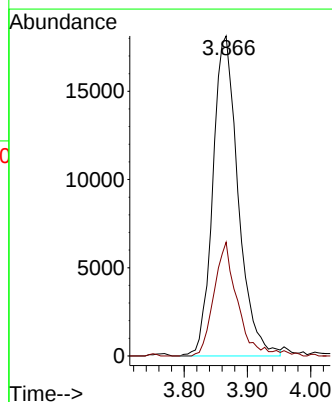
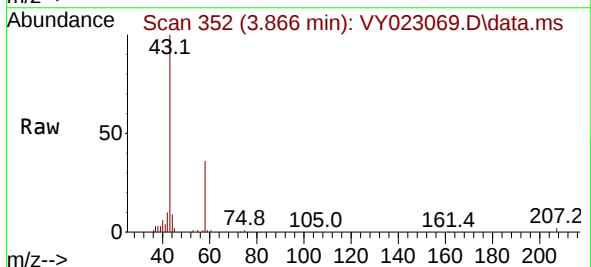
Instrument :
MSVOA_Y
ClientSampleId :
11M-N

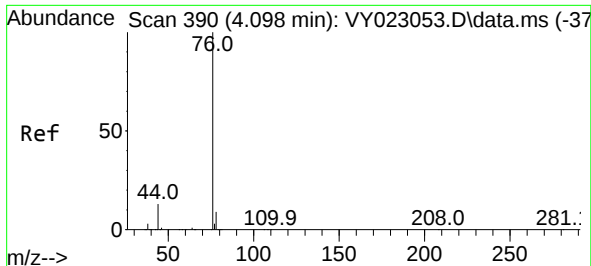
Tgt Ion:168 Resp: 499481
Ion Ratio Lower Upper
168 100
99 55.6 42.8 64.2



#16
Acetone
Concen: 49.067 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 43 Resp: 50603
Ion Ratio Lower Upper
43 100
58 35.5 27.1 40.7

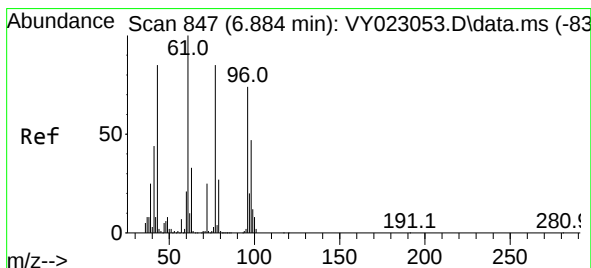
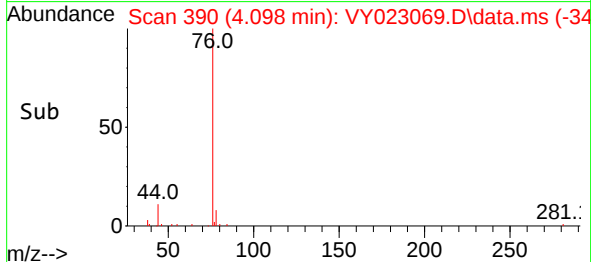
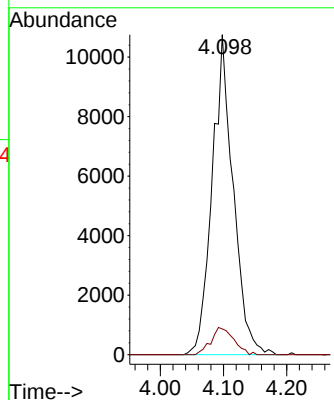
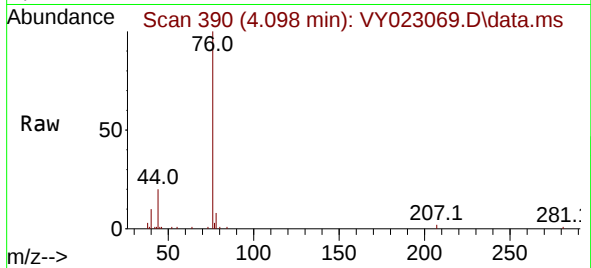




#17
Carbon Disulfide
Concen: 1.582 ug/l
RT: 4.098 min Scan# 390
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

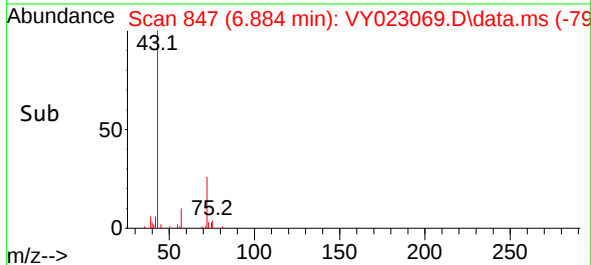
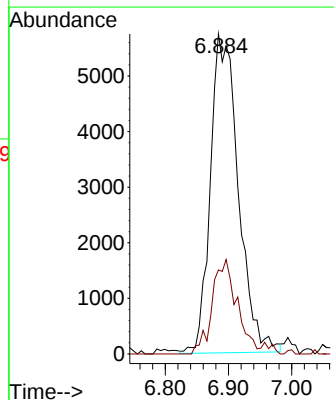
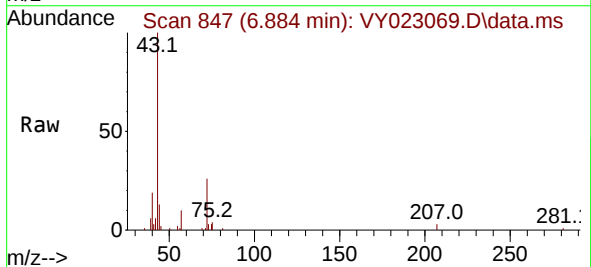
Instrument :
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ClientSampleId :
11M-N

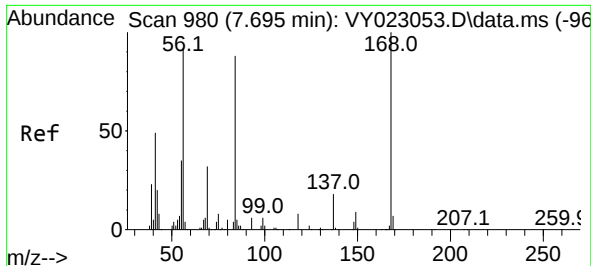
Tgt Ion: 76 Resp: 24835
Ion Ratio Lower Upper
76 100
78 8.1 7.4 11.2



#25
2-Butanone
Concen: 12.534 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 43 Resp: 17580
Ion Ratio Lower Upper
43 100
72 26.5 23.5 35.3

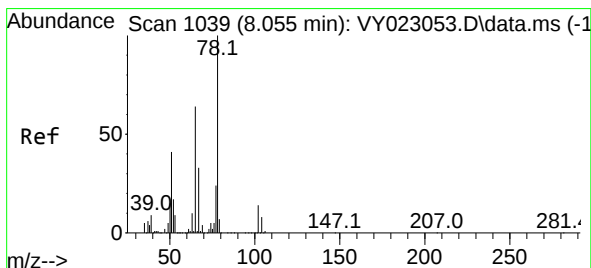
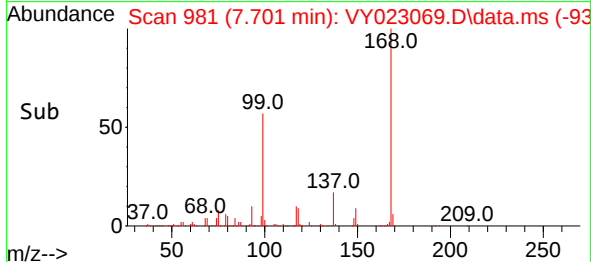
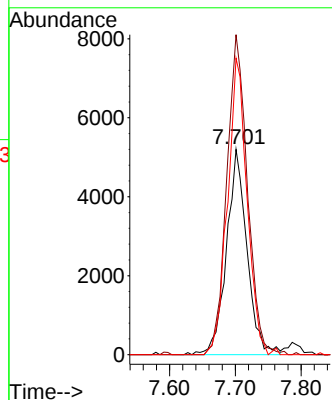
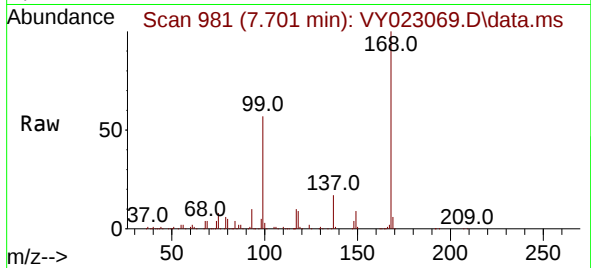




#31
Cyclohexane
Concen: 1.272 ug/l
RT: 7.701 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

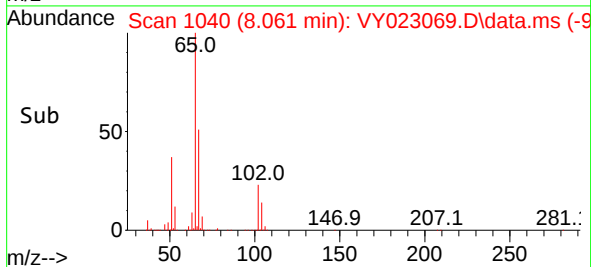
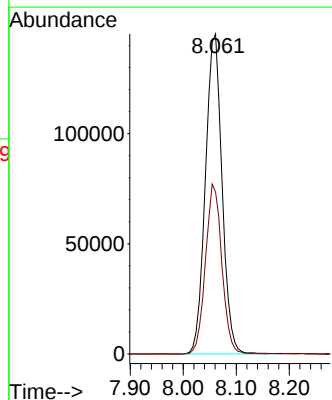
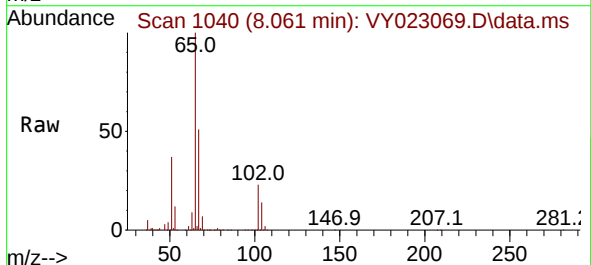
Instrument :
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ClientSampleId :
11M-N

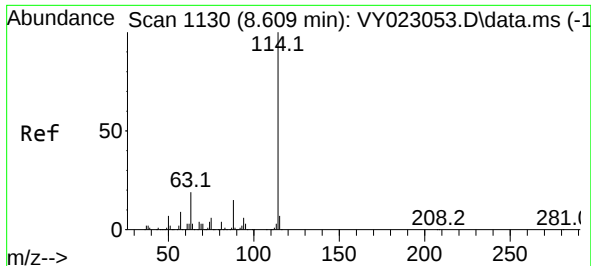
Tgt Ion: 56 Resp: 11278
Ion Ratio Lower Upper
56 100
69 155.9 28.2 42.2#
84 144.4 76.6 114.8#



#33
1,2-Dichloroethane-d4
Concen: 66.579 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 65 Resp: 316941
Ion Ratio Lower Upper
65 100
67 52.1 0.0 106.8

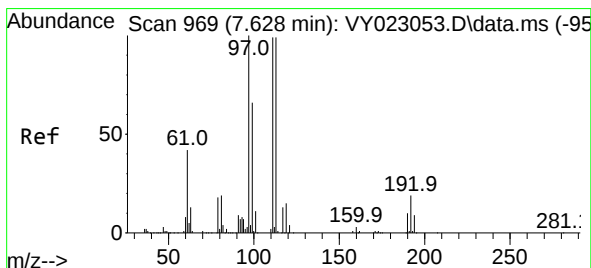
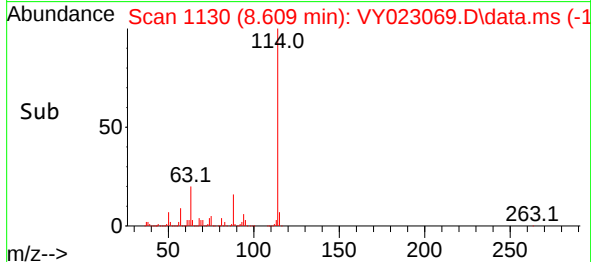
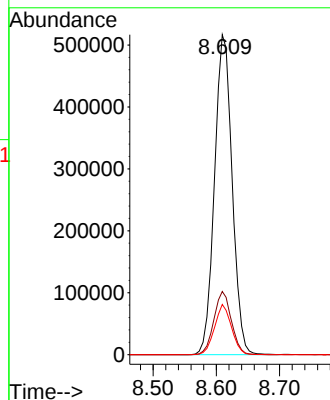
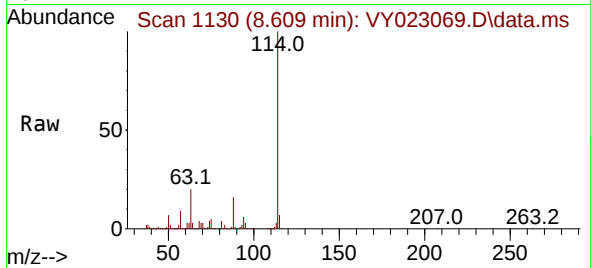




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.609 min Scan# 1130
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

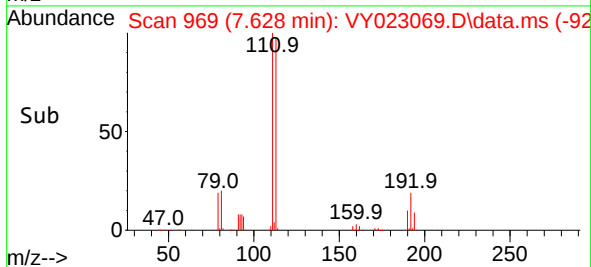
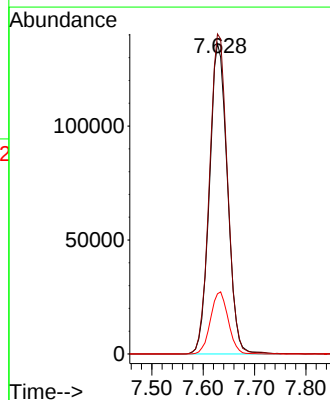
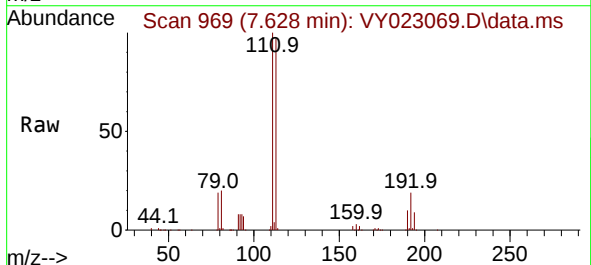
Instrument :
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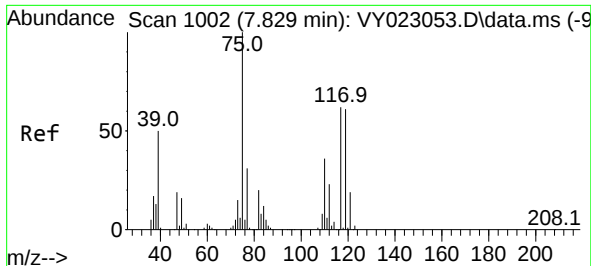
Tgt Ion:114 Resp: 998493
Ion Ratio Lower Upper
114 100
63 19.8 0.0 38.4
88 15.7 0.0 30.0



#35
Dibromofluoromethane
Concen: 55.193 ug/l
RT: 7.628 min Scan# 969
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion:113 Resp: 329759
Ion Ratio Lower Upper
113 100
111 103.2 81.1 121.7
192 19.7 16.2 24.4

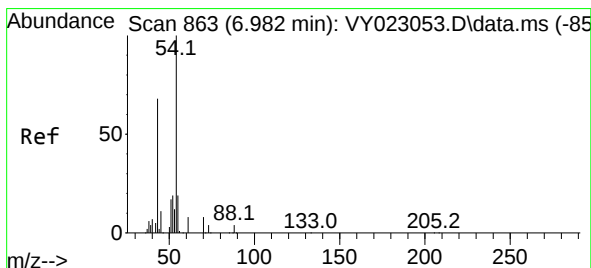
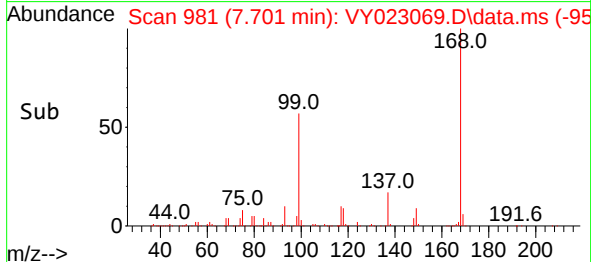
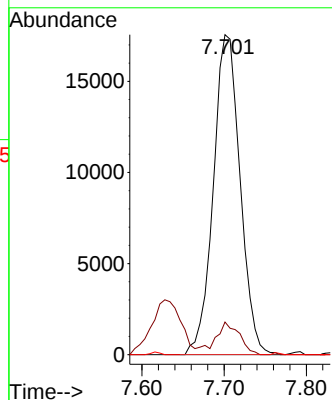
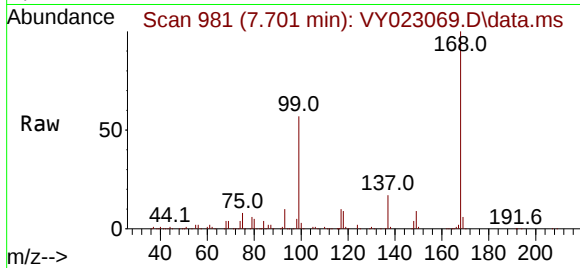




#36
 1,1-Dichloropropene
 Concen: 4.481 ug/l
 RT: 7.701 min Scan# 91
 Delta R.T. -0.128 min
 Lab File: VY023069.D
 Acq: 13 Aug 2025 14:55

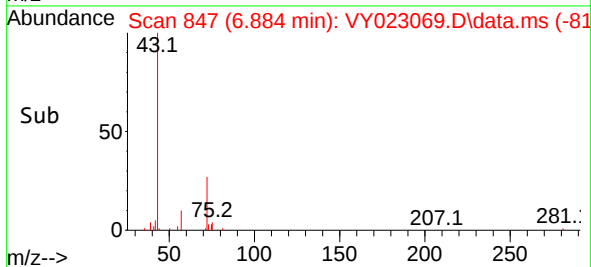
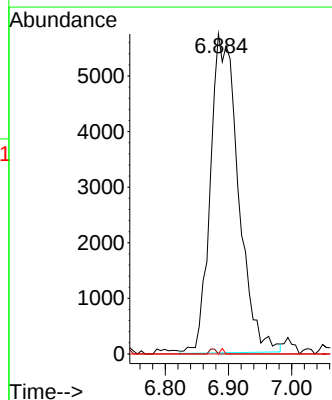
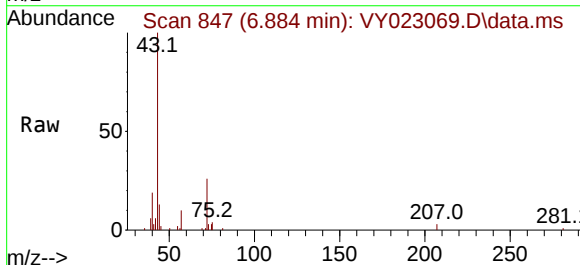
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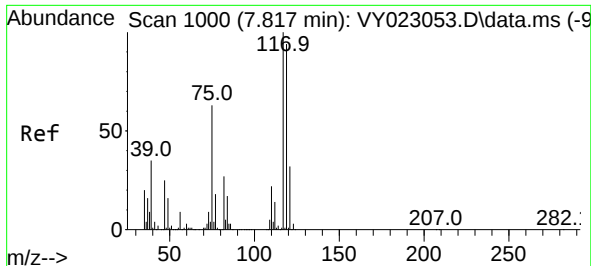
Tgt Ion: 75 Resp: 39792
 Ion Ratio Lower Upper
 75 100
 110 8.9 18.1 54.4#
 77 0.0 24.6 37.0#



#37
 Ethyl Acetate
 Concen: 4.713 ug/l
 RT: 6.884 min Scan# 847
 Delta R.T. -0.098 min
 Lab File: VY023069.D
 Acq: 13 Aug 2025 14:55

Tgt Ion: 43 Resp: 17580
 Ion Ratio Lower Upper
 43 100
 61 0.4 11.9 17.9#
 70 0.2 8.8 13.2#

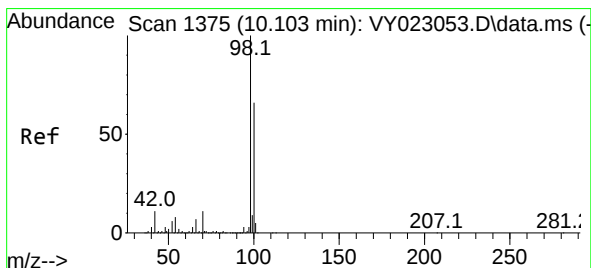
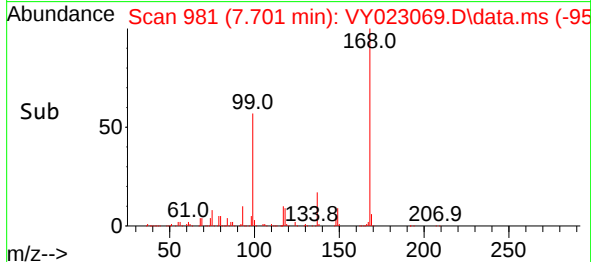
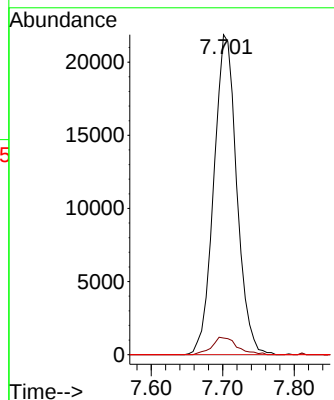
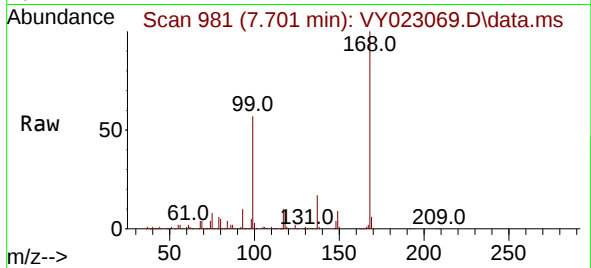




#38
Carbon Tetrachloride
Concen: 5.058 ug/l
RT: 7.701 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

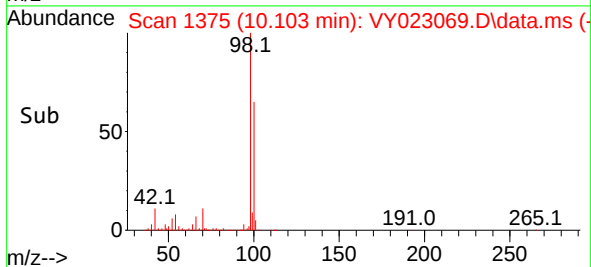
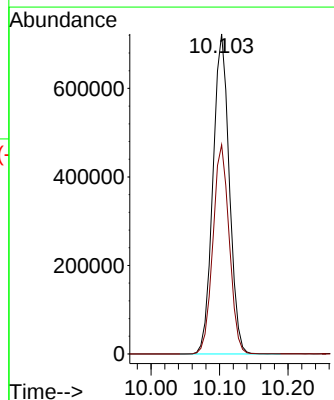
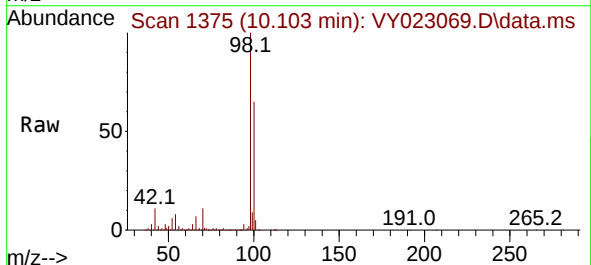
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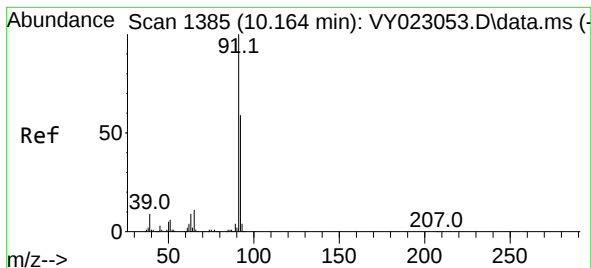
Tgt Ion:117 Resp: 48784
Ion Ratio Lower Upper
117 100
119 5.2 75.6 113.4#
121 0.0 25.8 38.8#



#50
Toluene-d8
Concen: 51.362 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 98 Resp: 1198822
Ion Ratio Lower Upper
98 100
100 65.0 52.3 78.5





#52

Toluene

Concen: 6.010 ug/l

RT: 10.164 min Scan# 1385

Delta R.T. 0.000 min

Lab File: VY023069.D

Acq: 13 Aug 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

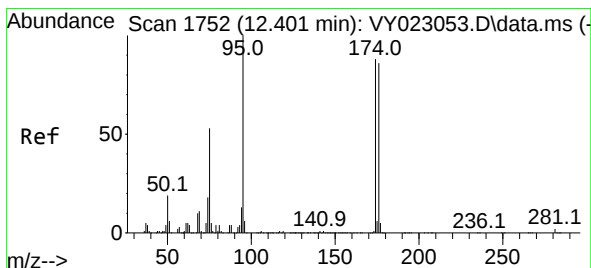
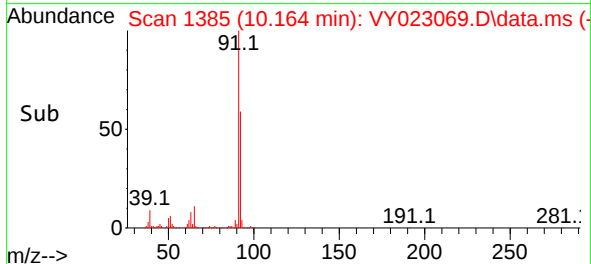
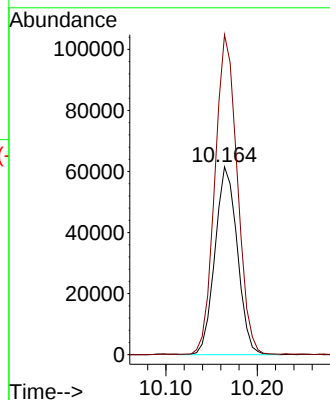
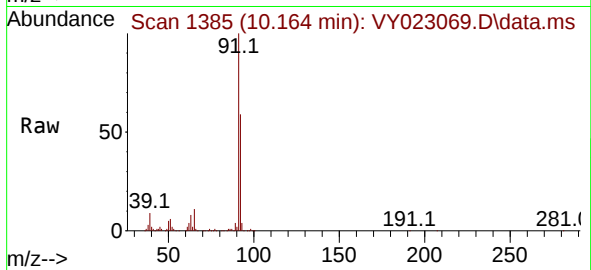
11M-N

Tgt Ion: 92 Resp: 104466

Ion Ratio Lower Upper

92 100

91 170.6 136.4 204.6



#62

4-Bromofluorobenzene

Concen: 50.409 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. 0.000 min

Lab File: VY023069.D

Acq: 13 Aug 2025 14:55

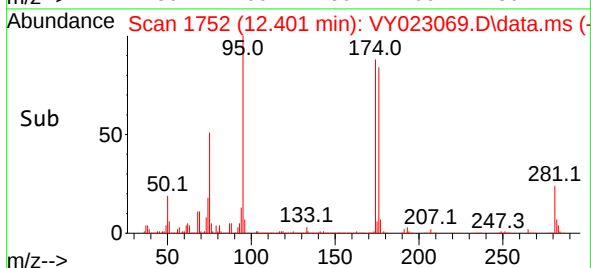
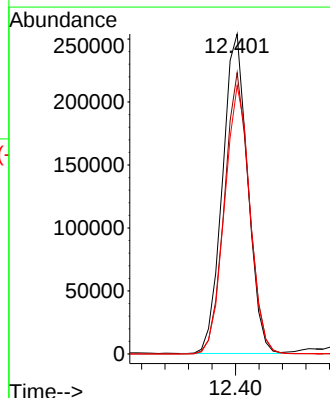
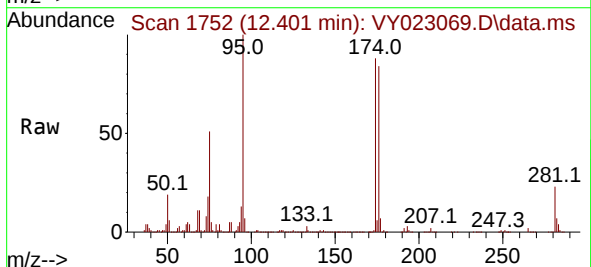
Tgt Ion: 95 Resp: 378383

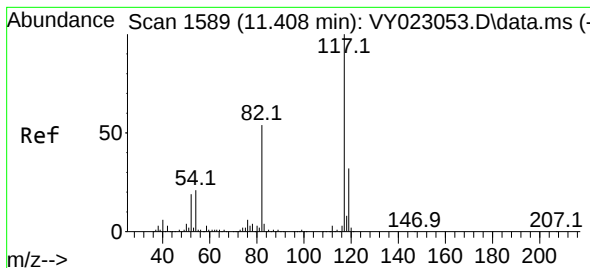
Ion Ratio Lower Upper

95 100

174 87.1 0.0 171.6

176 84.7 0.0 167.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023069.D

Acq: 13 Aug 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

11M-N

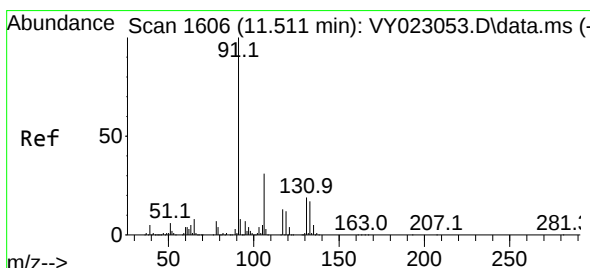
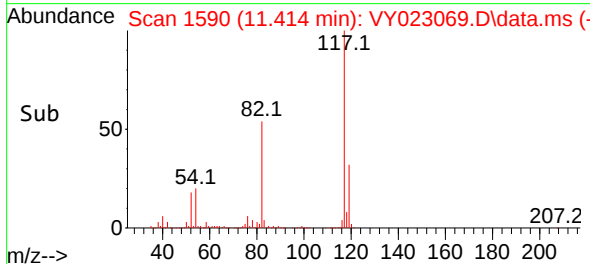
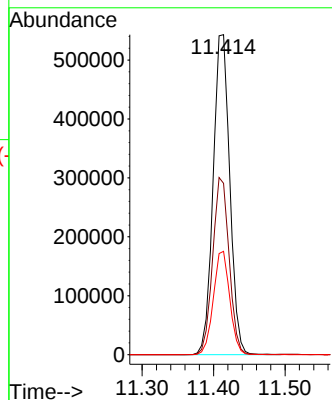
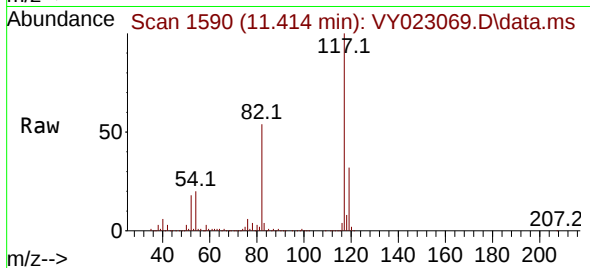
Tgt Ion:117 Resp: 877177

Ion Ratio Lower Upper

117 100

82 53.5 43.4 65.0

119 32.3 25.6 38.4



#67

Ethyl Benzene

Concen: 52.554 ug/l

RT: 11.511 min Scan# 1606

Delta R.T. 0.000 min

Lab File: VY023069.D

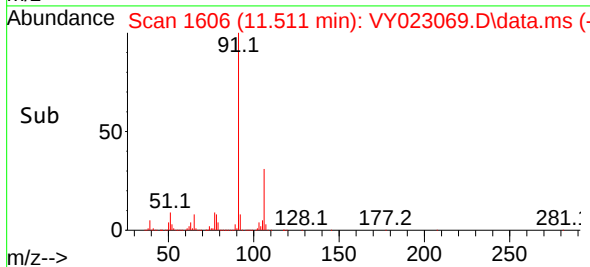
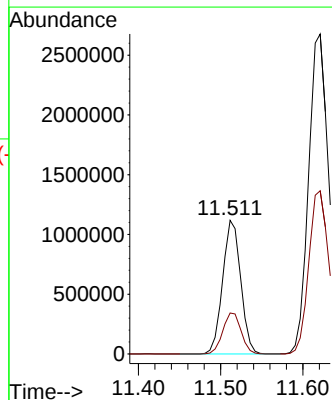
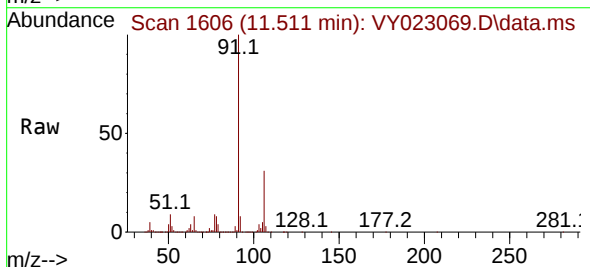
Acq: 13 Aug 2025 14:55

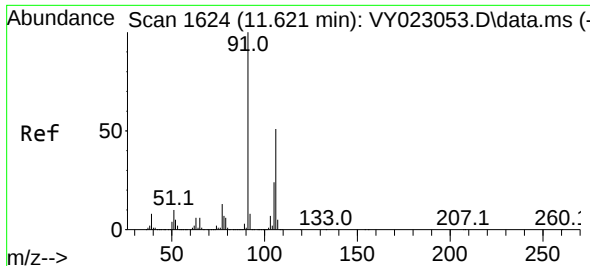
Tgt Ion: 91 Resp: 1711204

Ion Ratio Lower Upper

91 100

106 30.7 25.0 37.4

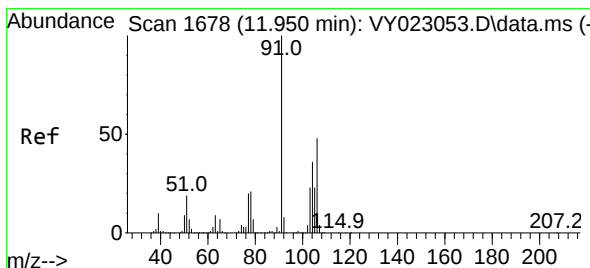
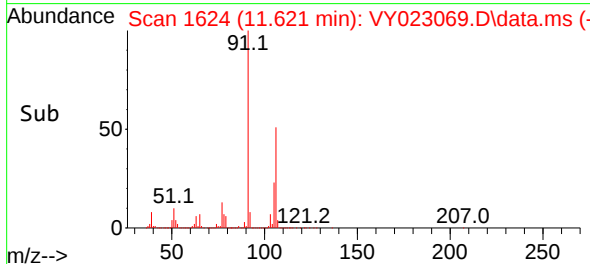
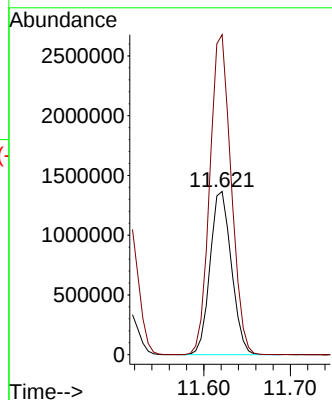
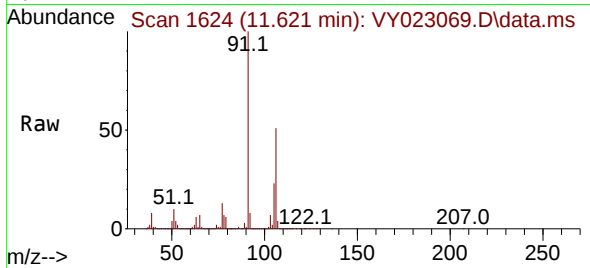




#68
m/p-Xylenes
Concen: 183.584 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

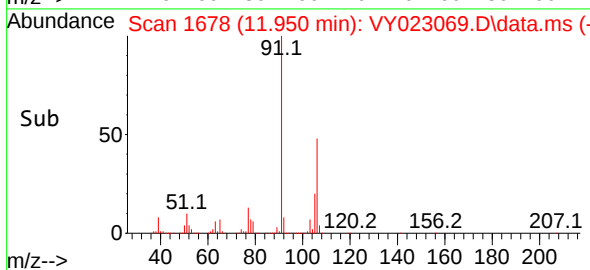
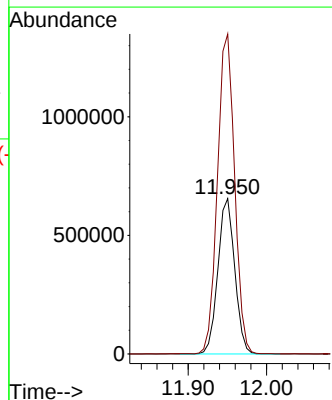
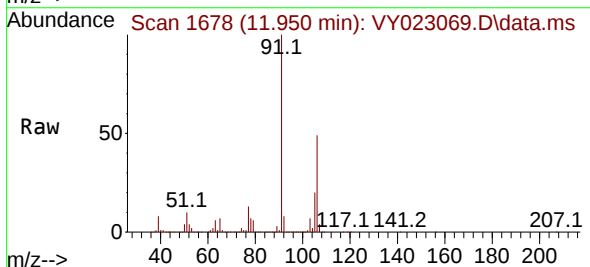
Instrument :
MSVOA_Y
ClientSampleId :
11M-N

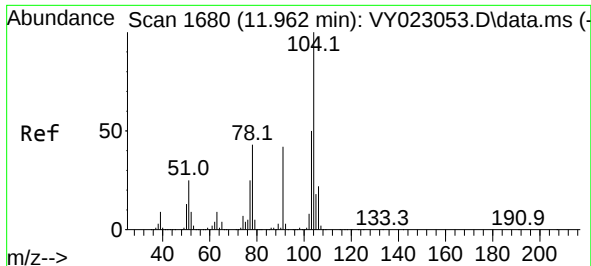
Tgt Ion:106 Resp: 2334647
Ion Ratio Lower Upper
106 100
91 196.2 158.6 238.0



#69
o-Xylene
Concen: 82.239 ug/l
RT: 11.950 min Scan# 1678
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion:106 Resp: 979527
Ion Ratio Lower Upper
106 100
91 210.0 103.2 309.4

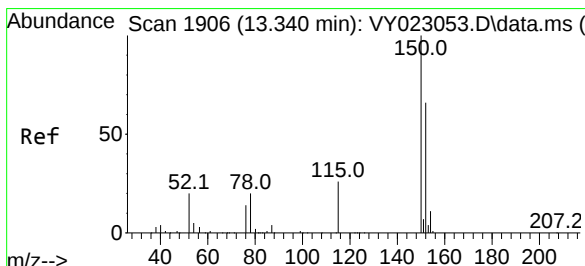
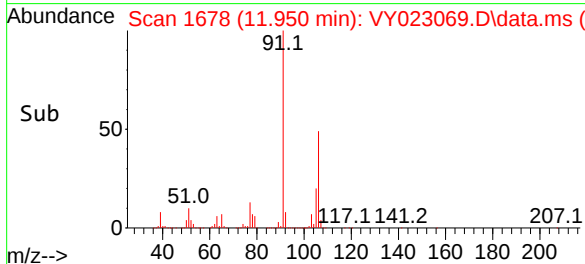
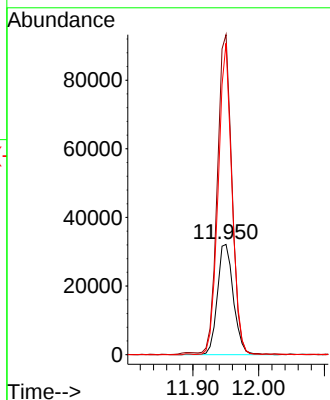
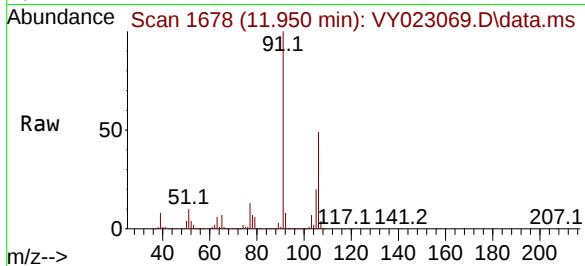




#70
Styrene
Concen: 2.805 ug/l
RT: 11.950 min Scan# 11
Delta R.T. -0.012 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

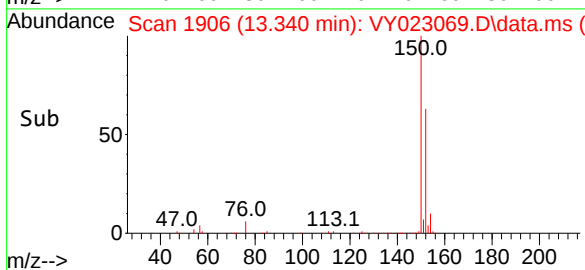
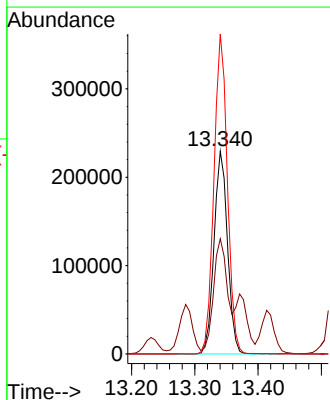
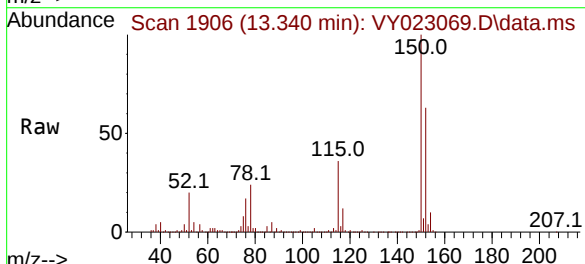
Instrument :
MSVOA_Y
ClientSampleId :
11M-N

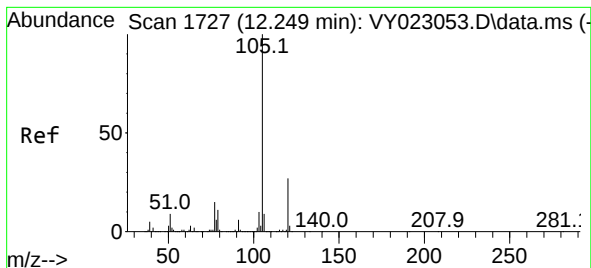
Tgt Ion:104 Resp: 54628
Ion Ratio Lower Upper
104 100
78 262.2 38.5 57.7#
103 242.7 43.7 65.5#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.340 min Scan# 1906
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion:152 Resp: 339290
Ion Ratio Lower Upper
152 100
115 0.0 28.2 84.6#
150 157.3 0.0 348.0





#73

Isopropylbenzene

Concen: 86.285 ug/l

RT: 12.255 min Scan# 1728

Delta R.T. 0.006 min

Lab File: VY023069.D

Acq: 13 Aug 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

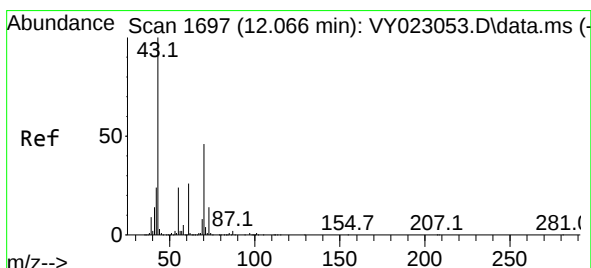
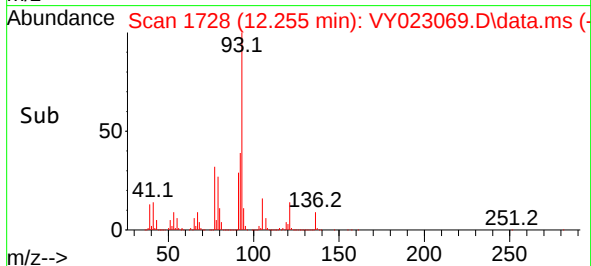
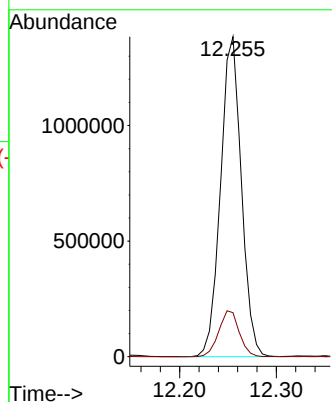
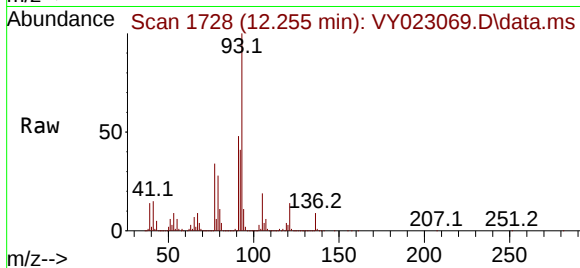
11M-N

Tgt Ion:105 Resp: 2066252

Ion Ratio Lower Upper

105 100

120 14.2 13.4 40.2



#74

N-ethyl acetate

Concen: 103.160 ug/l

RT: 12.255 min Scan# 1728

Delta R.T. 0.189 min

Lab File: VY023069.D

Acq: 13 Aug 2025 14:55

Tgt Ion: 43 Resp: 523882

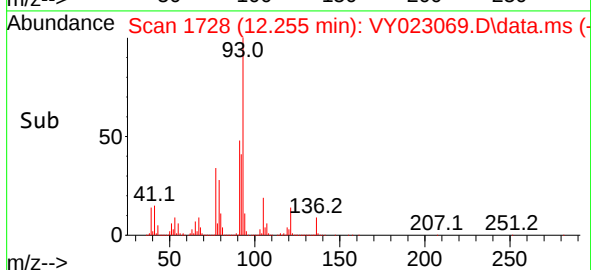
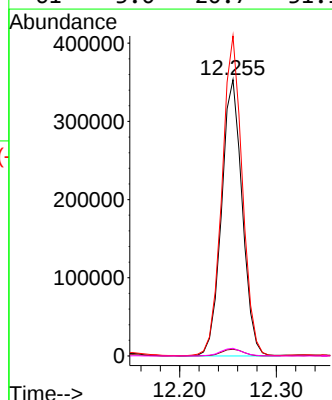
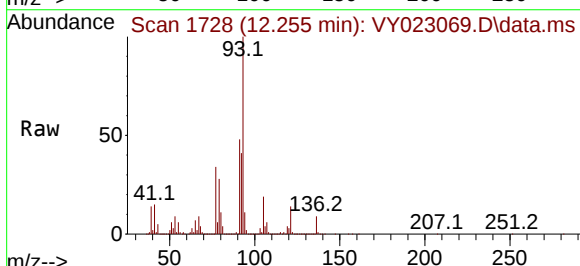
Ion Ratio Lower Upper

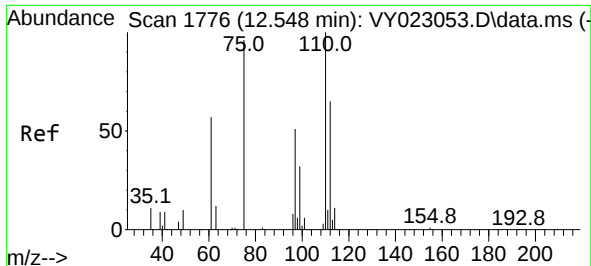
43 100

70 2.6 37.5 56.3#

55 113.6 20.7 31.1#

61 3.0 20.7 31.1#

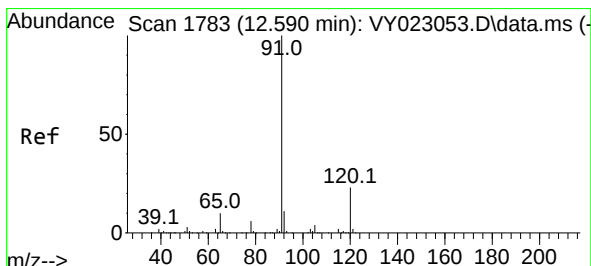
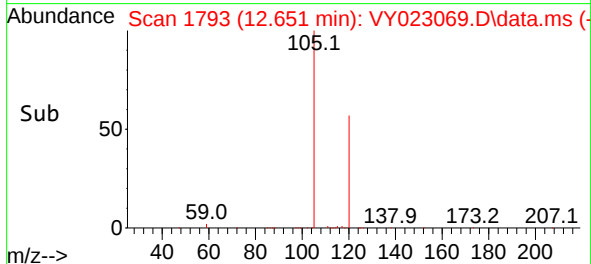
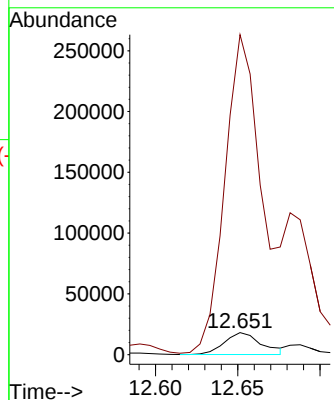
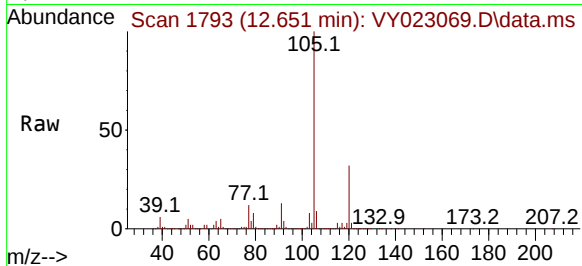




#76
1,2,3-Trichloropropane
Concen: 8.559 ug/l
RT: 12.651 min Scan# 1793
Delta R.T. 0.104 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

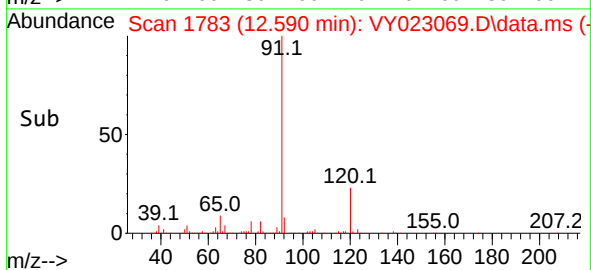
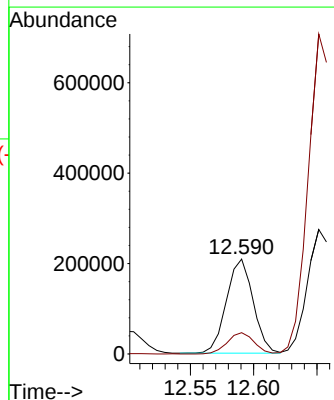
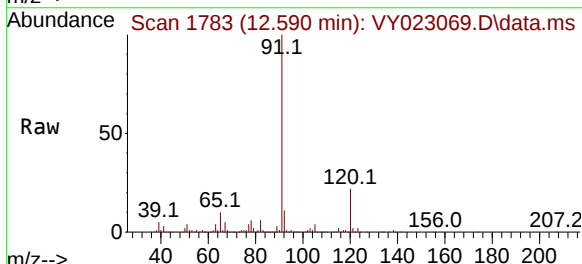
Instrument :
MSVOA_Y
ClientSampleId :
11M-N

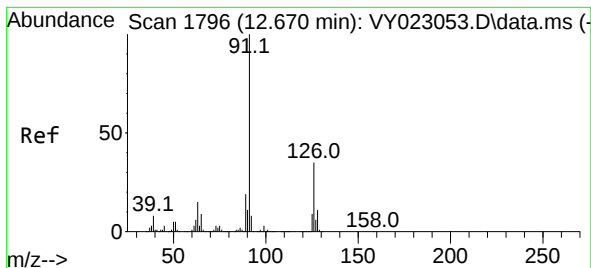
Tgt Ion: 75 Resp: 28026
Ion Ratio Lower Upper
75 100
77 1481.7 0.0 0.0#



#78
n-propylbenzene
Concen: 10.697 ug/l
RT: 12.590 min Scan# 1783
Delta R.T. 0.000 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 91 Resp: 304969
Ion Ratio Lower Upper
91 100
120 22.8 11.5 34.5





#79

2-Chlorotoluene

Concen: 3.978 ug/l

RT: 12.810 min Scan# 1819

Delta R.T. 0.140 min

Lab File: VY023069.D

Acq: 13 Aug 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

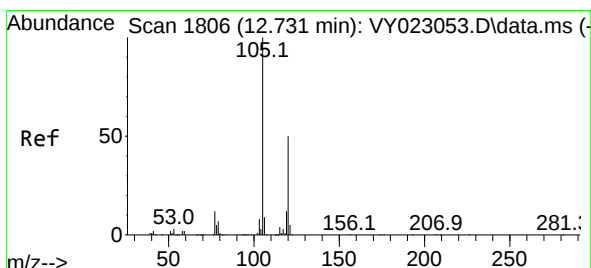
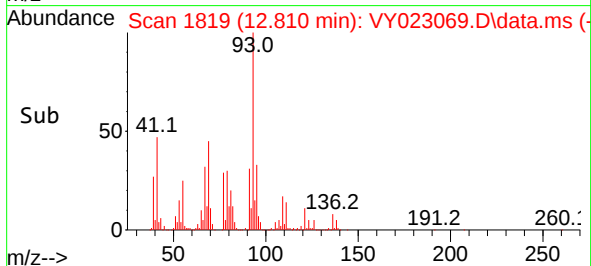
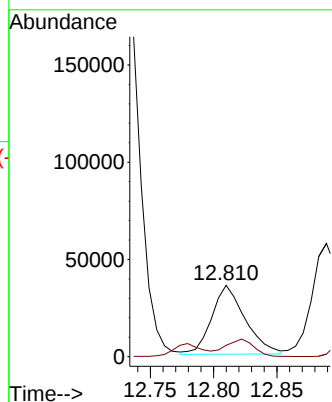
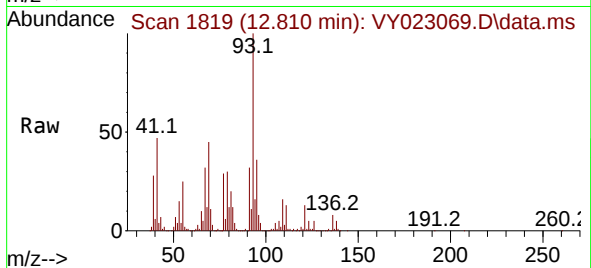
11M-N

Tgt Ion: 91 Resp: 64981

Ion Ratio Lower Upper

91 100

126 21.3 17.4 52.3



#80

1,3,5-Trimethylbenzene

Concen: 140.425 ug/l

RT: 12.731 min Scan# 1806

Delta R.T. 0.000 min

Lab File: VY023069.D

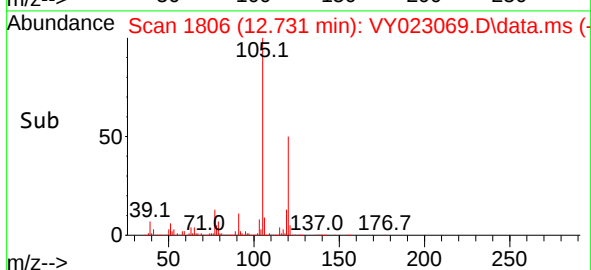
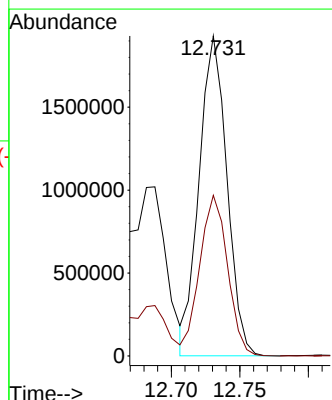
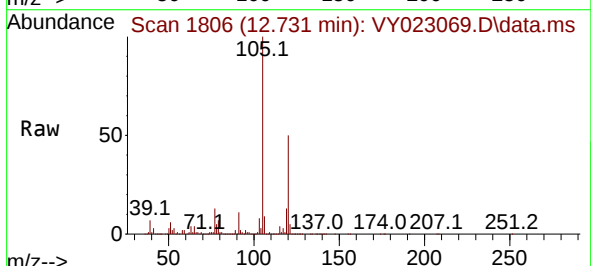
Acq: 13 Aug 2025 14:55

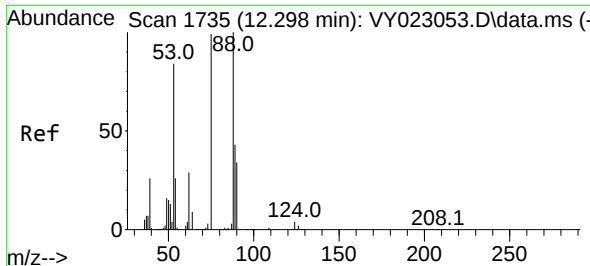
Tgt Ion:105 Resp: 2717714

Ion Ratio Lower Upper

105 100

120 50.5 24.8 74.4

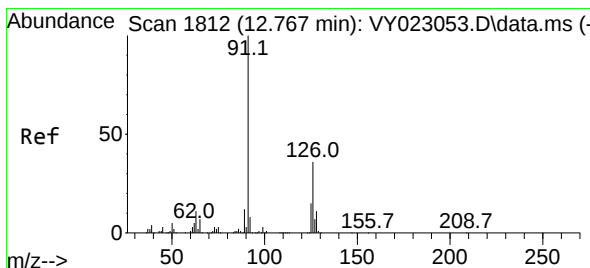
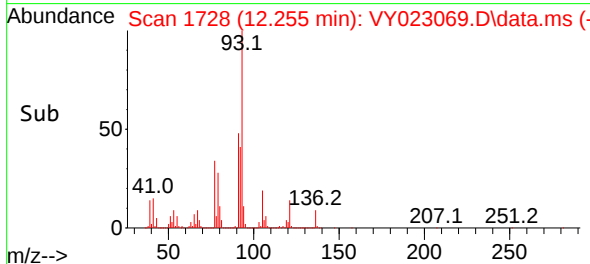
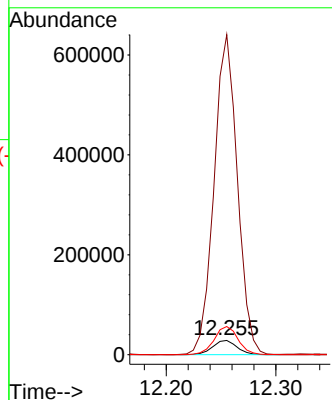
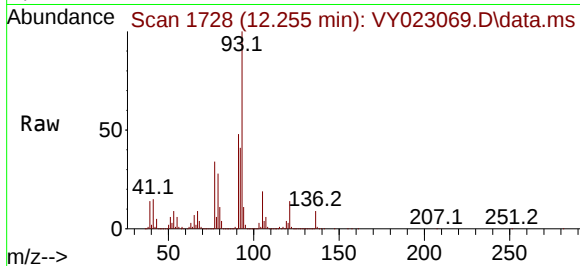




#81
trans-1,4-Dichloro-2-butene
Concen: 32.599 ug/l
RT: 12.255 min Scan# 11
Delta R.T. -0.043 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

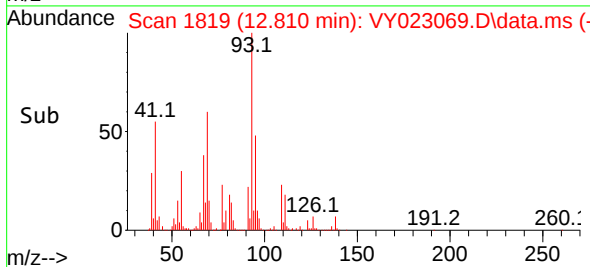
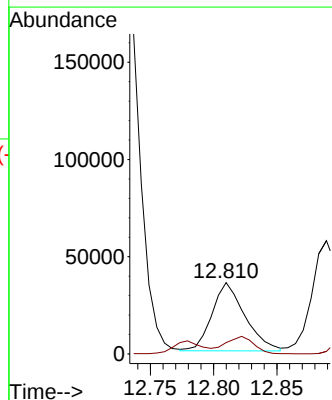
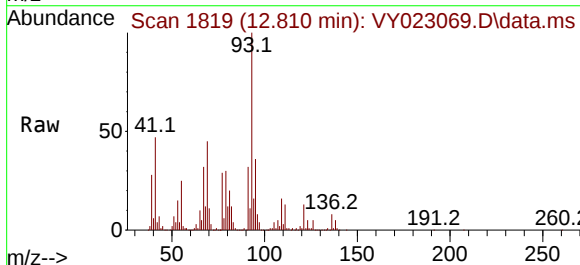
Instrument :
MSVOA_Y
ClientSampleId :
11M-N

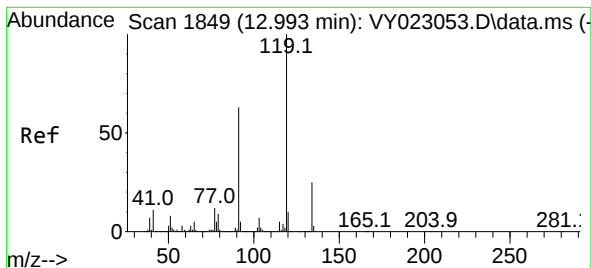
Tgt Ion: 75 Resp: 44097
Ion Ratio Lower Upper
75 100
53 2150.2 70.8 106.2#
89 195.1 38.1 57.1#



#82
4-Chlorotoluene
Concen: 3.755 ug/l
RT: 12.810 min Scan# 1819
Delta R.T. 0.043 min
Lab File: VY023069.D
Acq: 13 Aug 2025 14:55

Tgt Ion: 91 Resp: 63624
Ion Ratio Lower Upper
91 100
126 21.7 17.3 52.0





#83

tert-Butylbenzene

Concen: 56.369 ug/l

RT: 13.035 min Scan# 1856

Delta R.T. 0.043 min

Lab File: VY023069.D

Acq: 13 Aug 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

11M-N

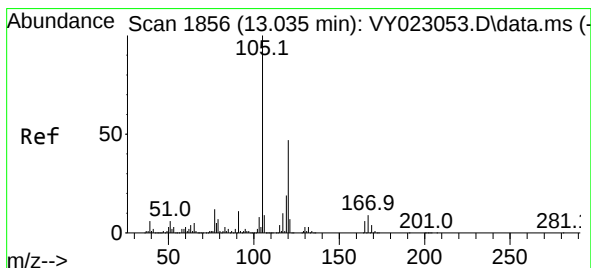
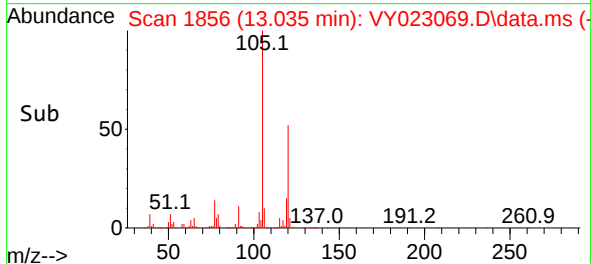
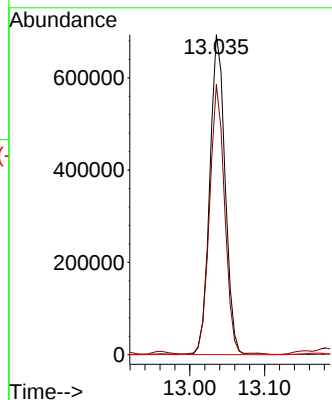
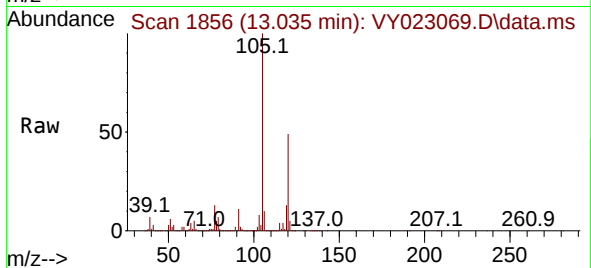
Tgt Ion:119 Resp: 985298

Ion Ratio Lower Upper

119 100

91 82.8 31.6 94.8

134 0.0 12.9 38.7#



#84

1,2,4-Trimethylbenzene

Concen: 392.581 ug/l

RT: 13.035 min Scan# 1856

Delta R.T. 0.000 min

Lab File: VY023069.D

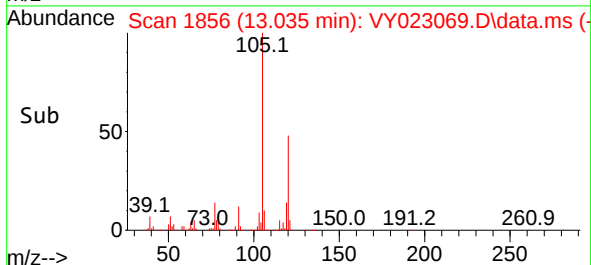
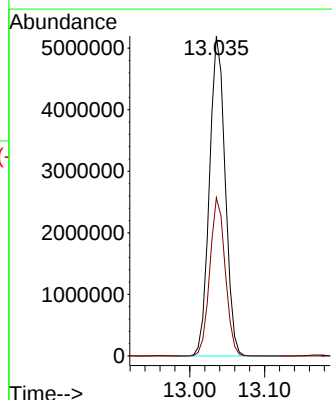
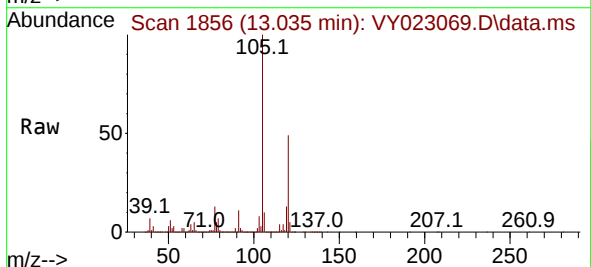
Acq: 13 Aug 2025 14:55

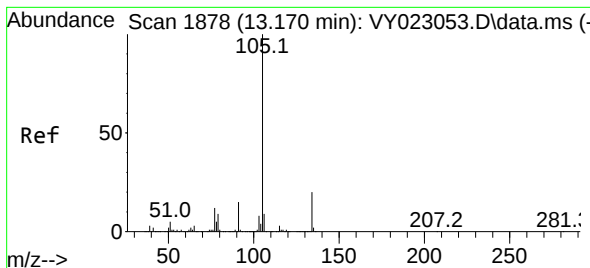
Tgt Ion:105 Resp: 7563336

Ion Ratio Lower Upper

105 100

120 48.4 23.0 69.0





#85

sec-Butylbenzene

Concen: 294.557 ug/l

RT: 13.035 min Scan# 1856

Delta R.T. -0.134 min

Lab File: VY023069.D

Acq: 13 Aug 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

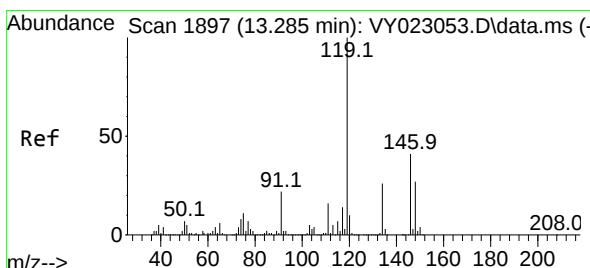
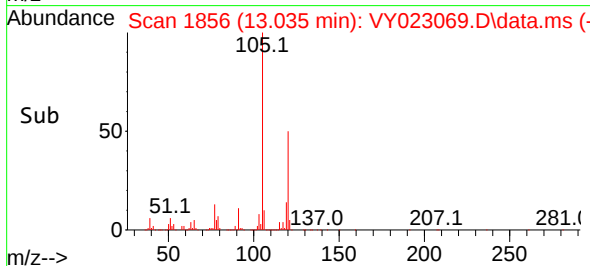
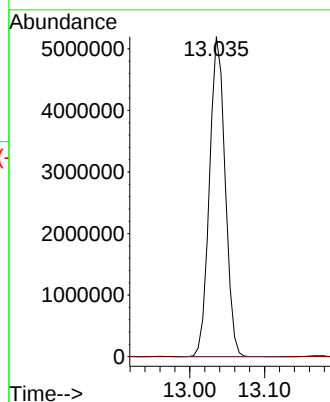
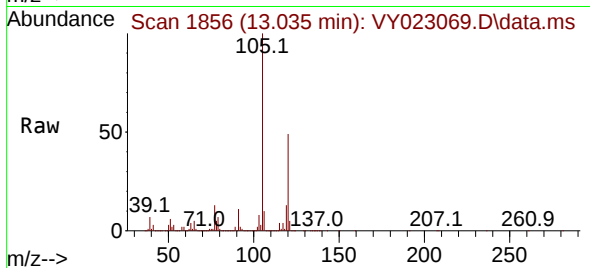
11M-N

Tgt Ion:105 Resp: 7563336

Ion Ratio Lower Upper

105 100

134 0.0 10.2 30.4#



#86

p-Isopropyltoluene

Concen: 49.669 ug/l

RT: 13.285 min Scan# 1897

Delta R.T. 0.000 min

Lab File: VY023069.D

Acq: 13 Aug 2025 14:55

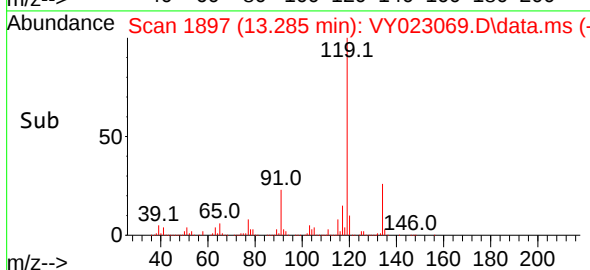
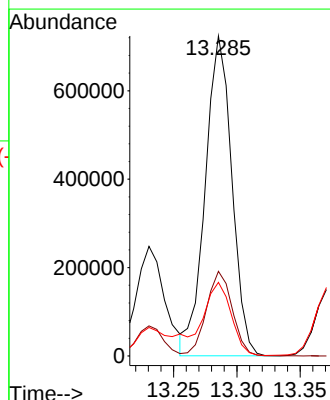
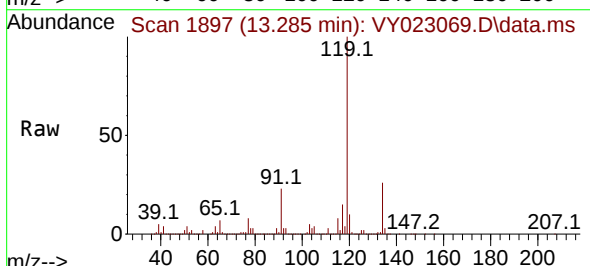
Tgt Ion:119 Resp: 1058617

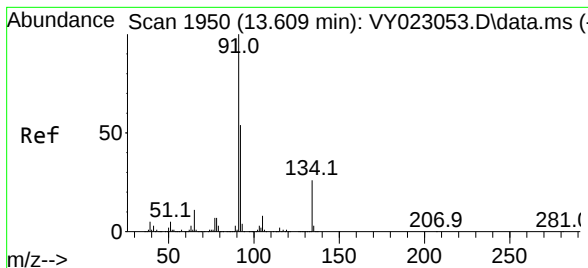
Ion Ratio Lower Upper

119 100

134 25.8 13.2 39.6

91 0.0 11.3 33.8#





#89

n-Butylbenzene

Concen: 453.226 ug/l

RT: 13.541 min Scan# 1939

Delta R.T. -0.067 min

Lab File: VY023069.D

Acq: 13 Aug 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

11M-N

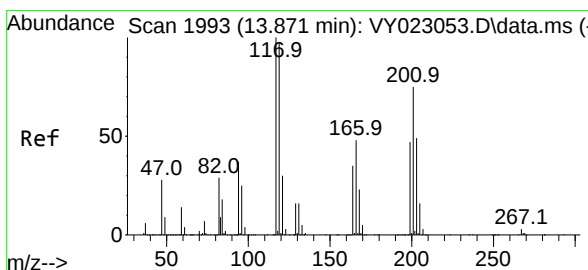
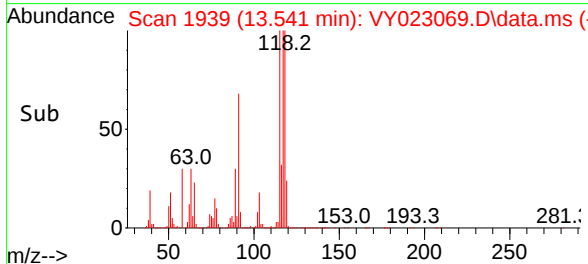
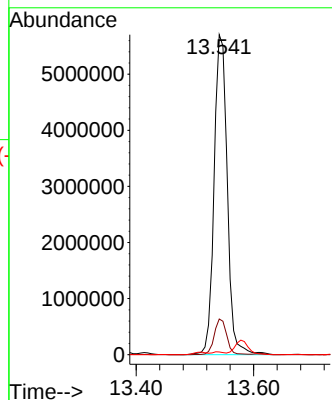
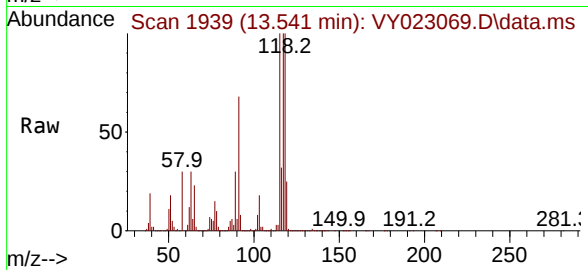
Tgt Ion: 91 Resp: 8872019

Ion Ratio Lower Upper

91 100

92 10.6 26.9 80.7#

134 0.8 13.2 39.5#



#90

Hexachloroethane

Concen: 23.774 ug/l

RT: 13.889 min Scan# 1996

Delta R.T. 0.018 min

Lab File: VY023069.D

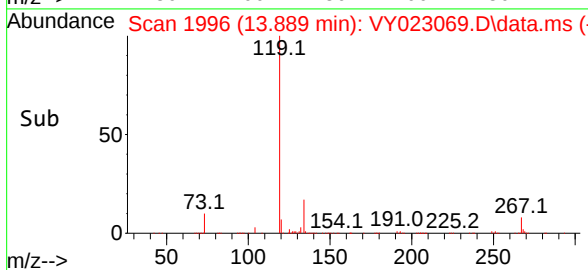
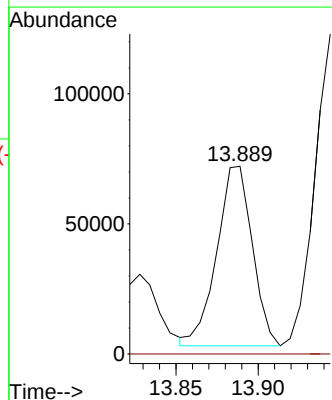
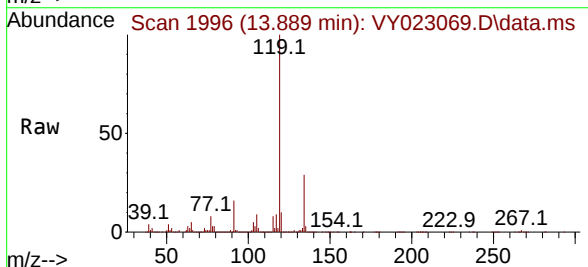
Acq: 13 Aug 2025 14:55

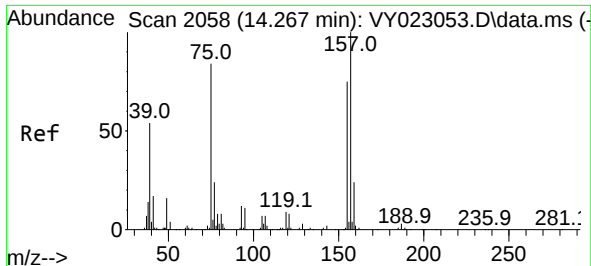
Tgt Ion: 117 Resp: 103728

Ion Ratio Lower Upper

117 100

201 0.0 38.4 115.1#





#92

1,2-Dibromo-3-Chloropropane

Concen: 214.601 ug/l

RT: 14.273 min Scan# 20

Delta R.T. 0.006 min

Lab File: VY023069.D

Acq: 13 Aug 2025 14:55

Instrument :

MSVOA_Y

ClientSampleId :

11M-N

Tgt Ion: 75 Resp: 136619

Ion Ratio Lower Upper

75 100

155 0.0 43.9 131.6#

157 0.0 57.2 171.6#

