

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY020325\
 Data File : VY021031.D
 Acq On : 03 Feb 2025 15:50
 Operator : SY/MD
 Sample : Q1239-10
 Misc : 5.06g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Feb 04 00:56:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y020325S.M
 Quant Title : SW846 8260
 QLast Update : Mon Feb 03 13:08:38 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	4138	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.622	114	6912	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	3829	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.359	152	420	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	2606	61.466	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	122.940%
35) Dibromofluoromethane	7.640	113	2495	56.325	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	112.640%
50) Toluene-d8	10.109	98	7177	42.558	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	85.120%
62) 4-Bromofluorobenzene	12.414	95	749	13.595	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	27.180%#

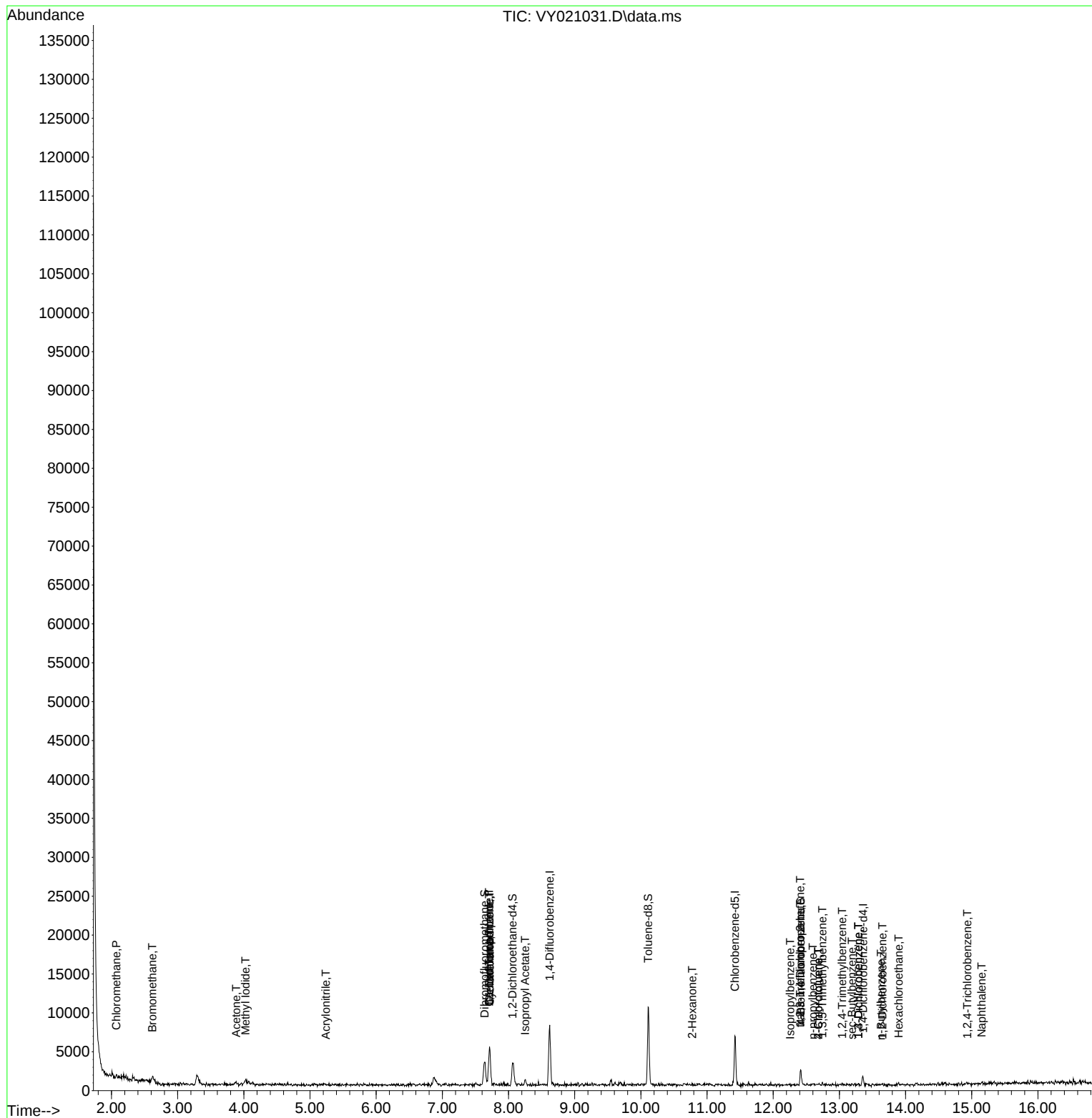
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.074	50	340	9.342	ug/l #	79
5) Bromomethane	2.617	94	482	21.289	ug/l	92
10) Methyl Iodide	4.025	142	1225	26.326	ug/l #	77
15) Acrylonitrile	5.238	53	23	2.651	ug/l #	18
16) Acetone	3.885	43	209	31.610	ug/l #	59
31) Cyclohexane	7.719	56	78	1.079	ug/l #	15
36) 1,1-Dichloropropene	7.707	75	403	6.142	ug/l #	42
38) Carbon Tetrachloride	7.707	117	383	4.996	ug/l #	12
43) Isopropyl Acetate	8.250	43	59	1.032	ug/l #	51
59) 2-Hexanone	10.774	43	48	2.592	ug/l #	23
73) Isopropylbenzene	12.255	105	59	1.798	ug/l #	49
76) 1,2,3-Trichloropropane	12.407	75	323	84.779	ug/l #	100
78) n-propylbenzene	12.596	91	109	2.789	ug/l #	54
79) 2-Chlorotoluene	12.682	91	116	5.182	ug/l #	41
80) 1,3,5-Trimethylbenzene	12.743	105	80	3.008	ug/l #	29
81) trans-1,4-Dichloro-2-b...	12.407	75	323	172.989	ug/l #	12
82) 4-Chlorotoluene	12.682	91	116	5.086	ug/l #	41
84) 1,2,4-Trimethylbenzene	13.042	105	135	5.191	ug/l #	32
85) sec-Butylbenzene	13.188	105	67	1.925	ug/l #	57
87) 1,3-Dichlorobenzene	13.285	146	68	4.652	ug/l #	25
88) 1,4-Dichlorobenzene	13.285	146	68	4.724	ug/l #	25
89) n-Butylbenzene	13.627	91	29	1.100	ug/l #	33
90) Hexachloroethane	13.895	117	19	3.150	ug/l #	17
91) 1,2-Dichlorobenzene	13.651	146	73	5.753	ug/l #	25
93) 1,2,4-Trichlorobenzene	14.931	180	111	15.717	ug/l #	74
95) Naphthalene	15.151	128	306	27.082	ug/l #	69

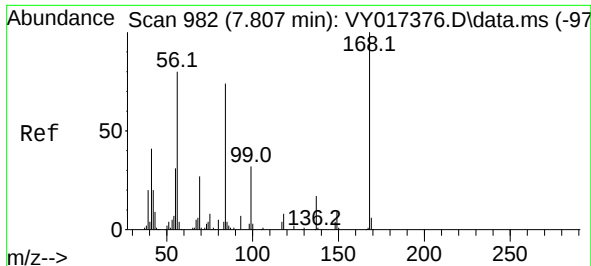
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Feb 03 13:08:38 2025
Response via : Initial Calibration

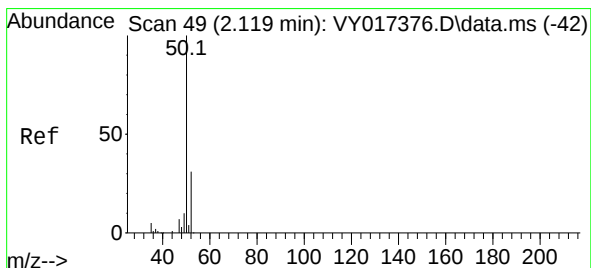
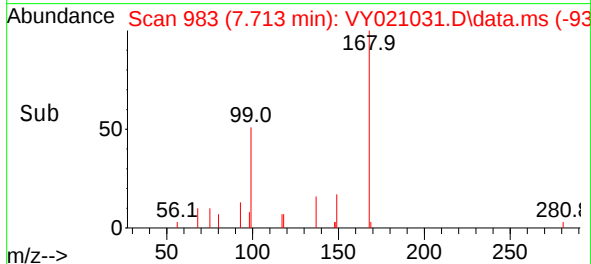
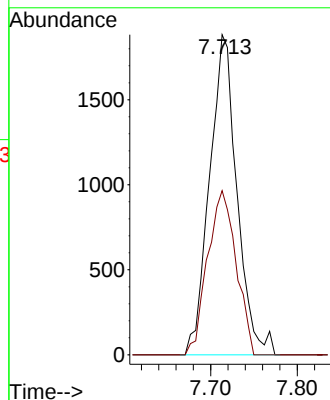
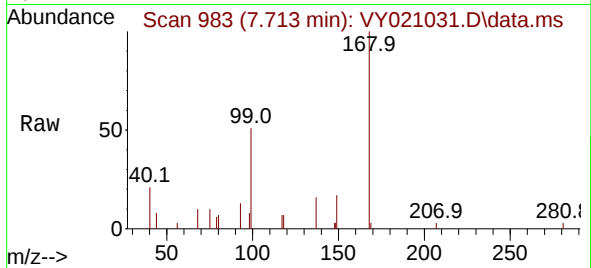




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 90
Delta R.T. 0.000 min
Lab File: VY021031.D
Acq: 03 Feb 2025 15:50

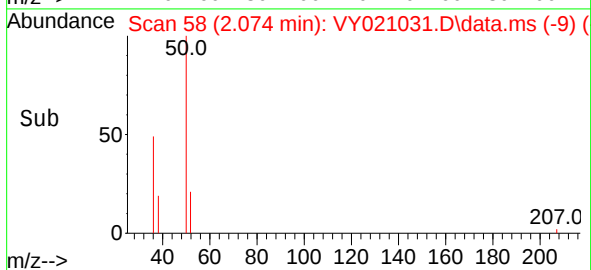
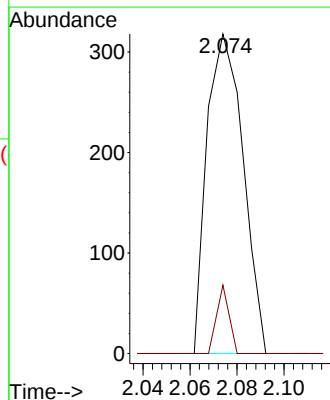
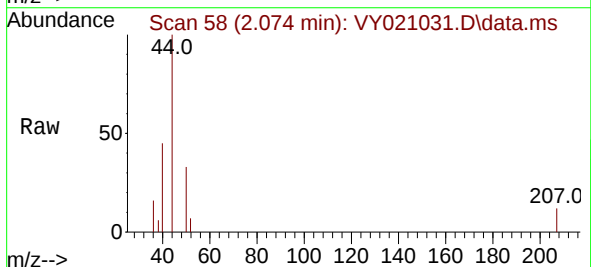
Instrument :
MSVOA_Y
ClientSampleId :

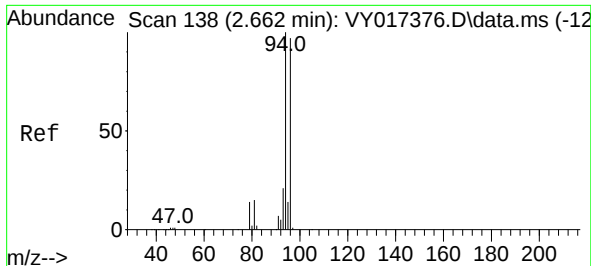
Tgt Ion:168 Resp: 4138
Ion Ratio Lower Upper
168 100
99 51.2 44.2 66.4



#3
Chloromethane
Concen: 9.342 ug/l
RT: 2.074 min Scan# 58
Delta R.T. -0.000 min
Lab File: VY021031.D
Acq: 03 Feb 2025 15:50

Tgt Ion: 50 Resp: 340
Ion Ratio Lower Upper
50 100
52 21.4 26.7 40.1#

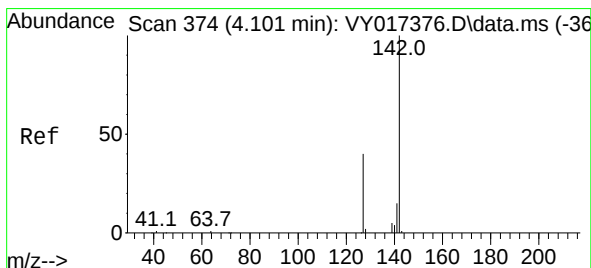
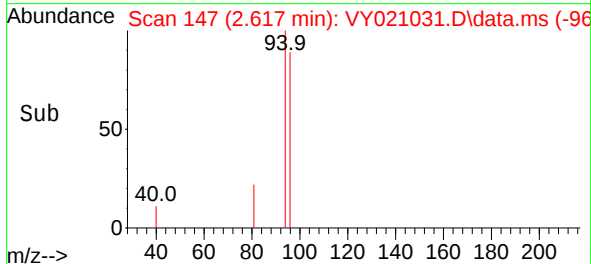
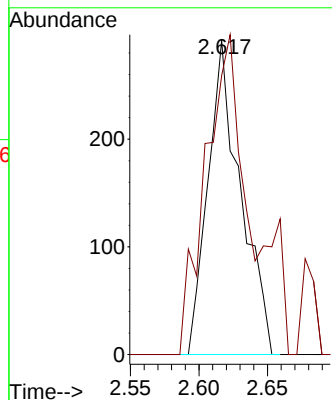
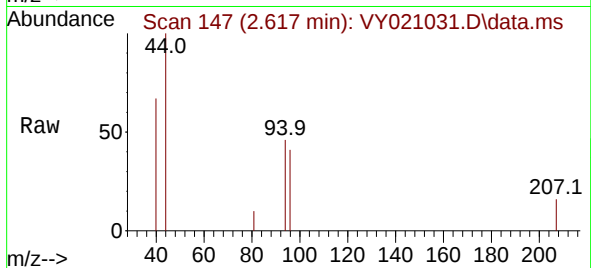




#5
Bromomethane
Concen: 21.289 ug/l
RT: 2.617 min Scan# 147
Delta R.T. 0.012 min
Lab File: VY021031.D
Acq: 03 Feb 2025 15:50

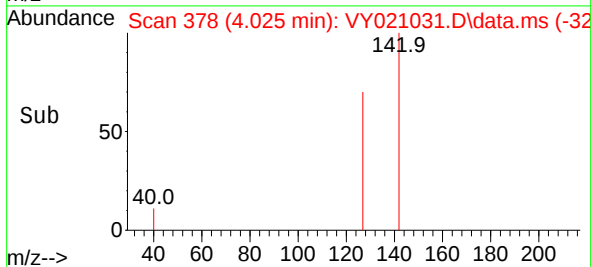
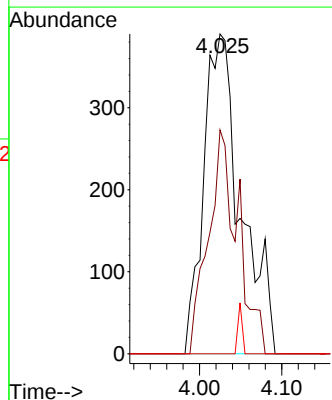
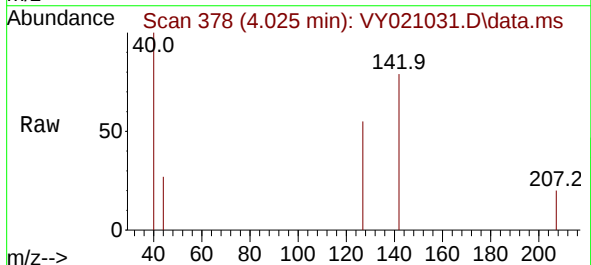
Instrument :
MSVOA_Y
ClientSampleId :

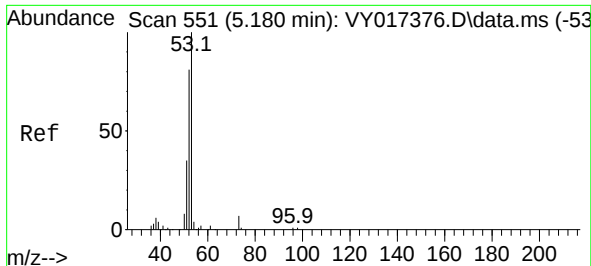
Tgt Ion: 94 Resp: 482
Ion Ratio Lower Upper
94 100
96 88.7 77.3 115.9



#10
Methyl Iodide
Concen: 26.326 ug/l
RT: 4.025 min Scan# 378
Delta R.T. 0.012 min
Lab File: VY021031.D
Acq: 03 Feb 2025 15:50

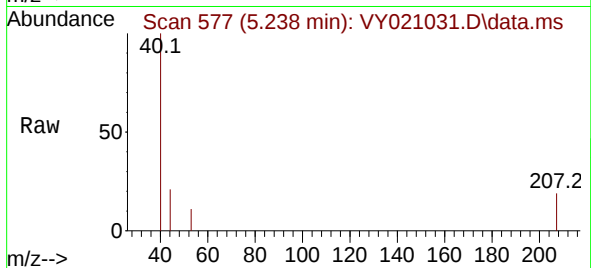
Tgt Ion:142 Resp: 1225
Ion Ratio Lower Upper
142 100
127 55.7 35.1 52.7#
141 0.0 11.8 17.6#



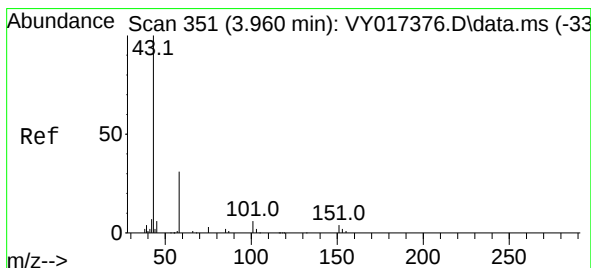
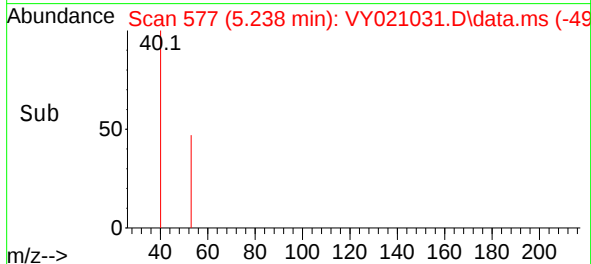
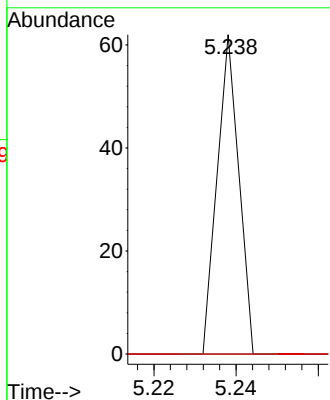


#15
Acrylonitrile
Concen: 2.651 ug/l
RT: 5.238 min Scan# 51
Delta R.T. 0.177 min
Lab File: VY021031.D
Acq: 03 Feb 2025 15:50

Instrument :
MSVOA_Y
ClientSampleId :

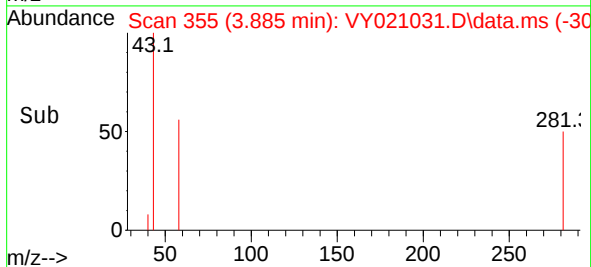
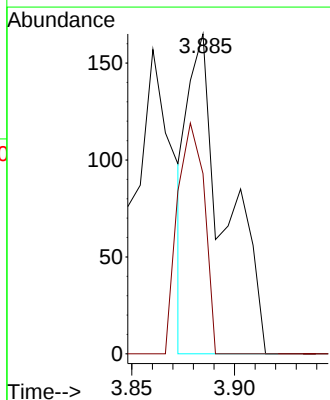
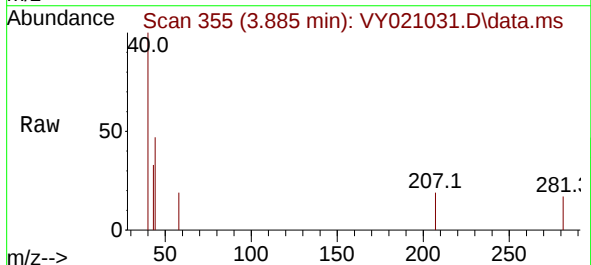


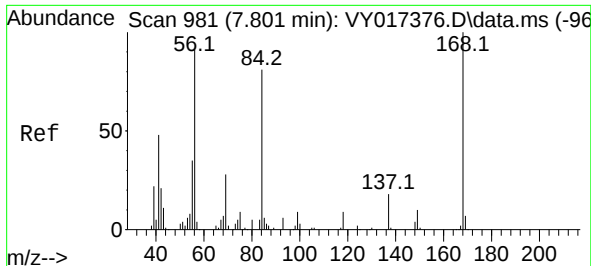
Tgt Ion: 53 Resp: 23
Ion Ratio Lower Upper
53 100
52 0.0 65.1 97.7#
51 0.0 29.0 43.4#



#16
Acetone
Concen: 31.610 ug/l
RT: 3.885 min Scan# 355
Delta R.T. 0.006 min
Lab File: VY021031.D
Acq: 03 Feb 2025 15:50

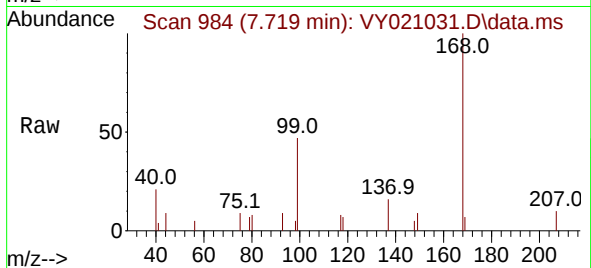
Tgt Ion: 43 Resp: 209
Ion Ratio Lower Upper
43 100
58 56.4 26.6 39.8#



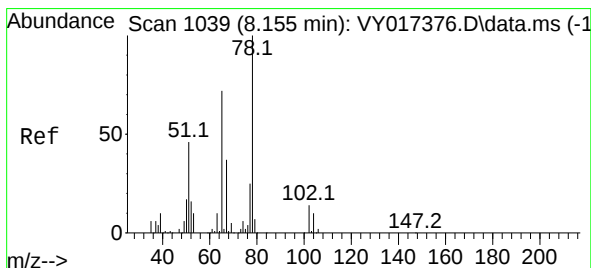
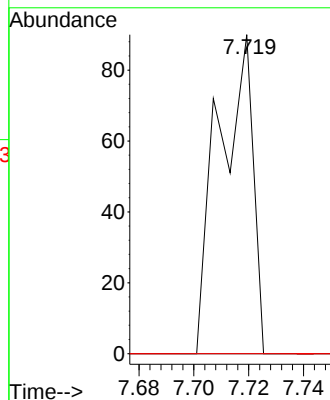
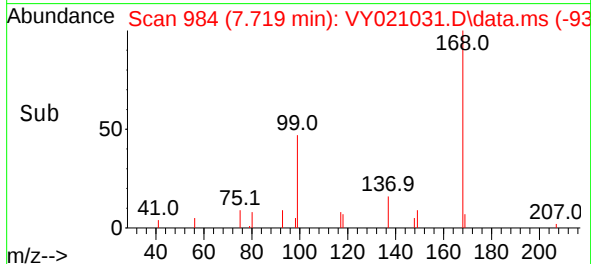


#31
Cyclohexane
Concen: 1.079 ug/l
RT: 7.719 min Scan# 90
Delta R.T. 0.012 min
Lab File: VY021031.D
Acq: 03 Feb 2025 15:50

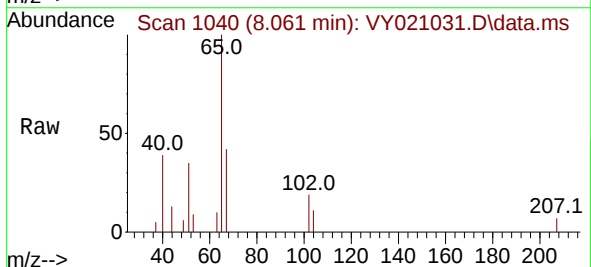
Instrument :
MSVOA_Y
ClientSampleId :



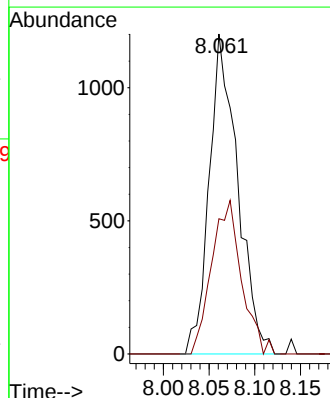
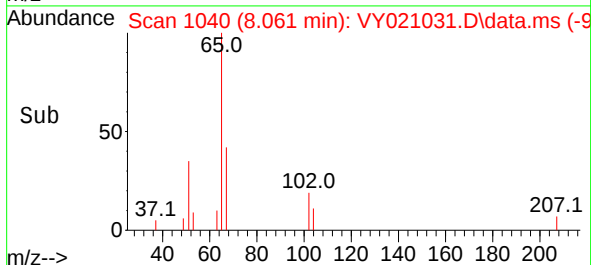
Tgt Ion: 56 Resp: 78
Ion Ratio Lower Upper
56 100
69 0.0 27.0 40.6#
84 0.0 71.8 107.6#

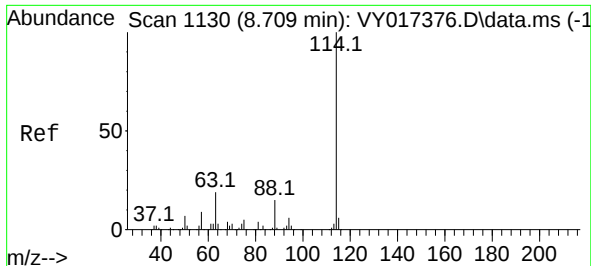


#33
1,2-Dichloroethane-d4
Concen: 61.466 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY021031.D
Acq: 03 Feb 2025 15:50



Tgt Ion: 65 Resp: 2606
Ion Ratio Lower Upper
65 100
67 50.3 0.0 109.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.622 min Scan# 1132

Delta R.T. -0.000 min

Lab File: VY021031.D

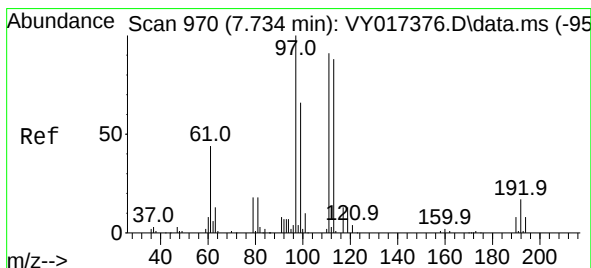
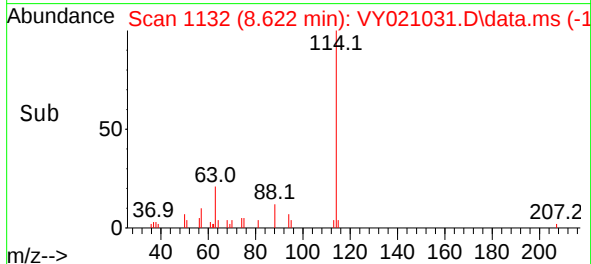
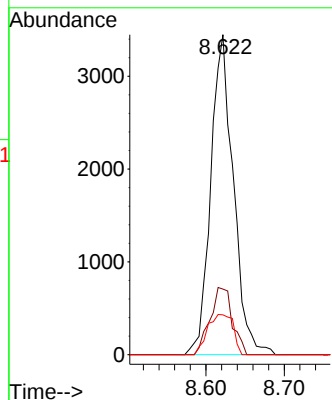
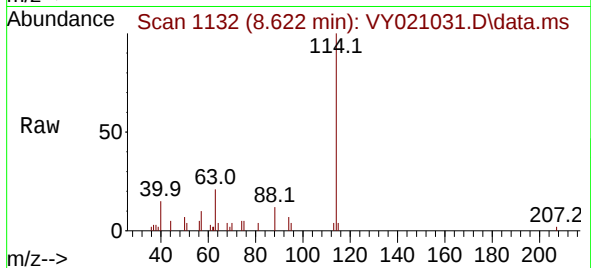
Acq: 03 Feb 2025 15:50

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:114	Resp:	6912
Ion	Ratio	Lower Upper
114	100	
63	20.5	0.0 37.4
88	12.4	0.0 29.0



#35

Dibromofluoromethane

Concen: 56.325 ug/l

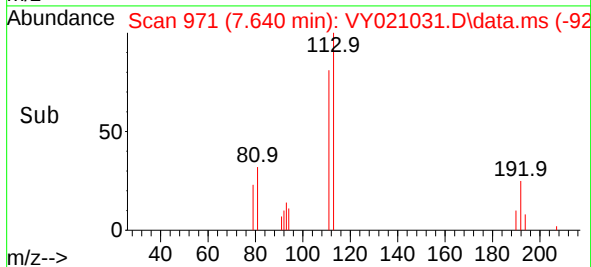
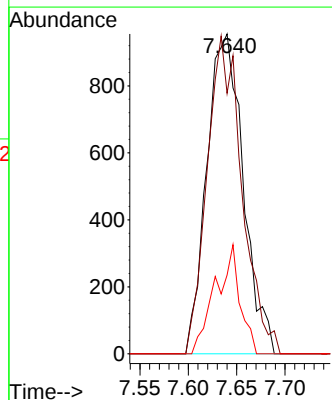
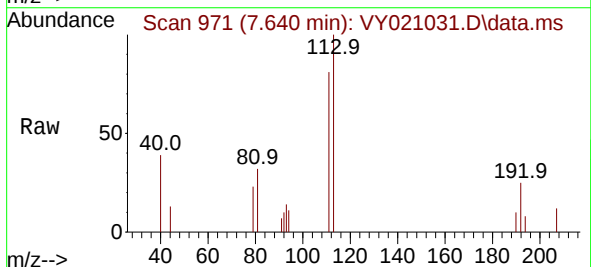
RT: 7.640 min Scan# 971

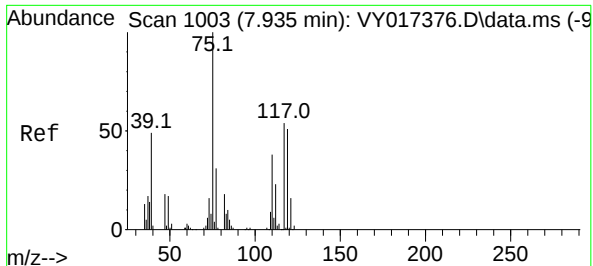
Delta R.T. -0.000 min

Lab File: VY021031.D

Acq: 03 Feb 2025 15:50

Tgt Ion:113	Resp:	2495
Ion	Ratio	Lower Upper
113	100	
111	95.2	83.8 125.6
192	23.1	14.5 21.7#

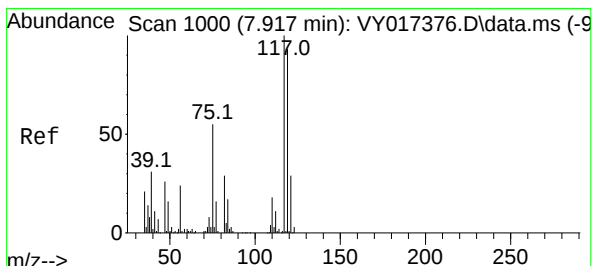
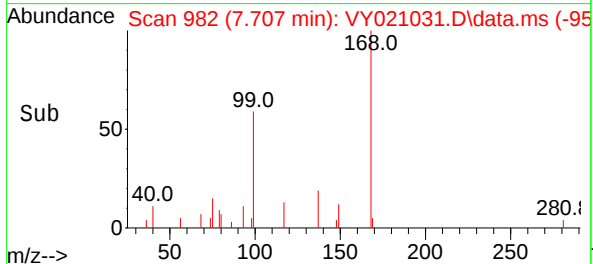
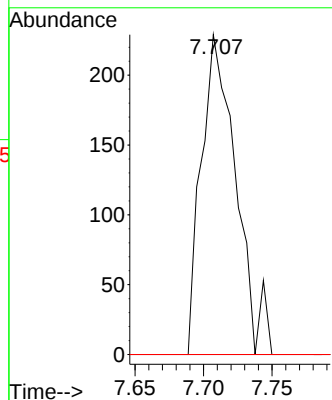
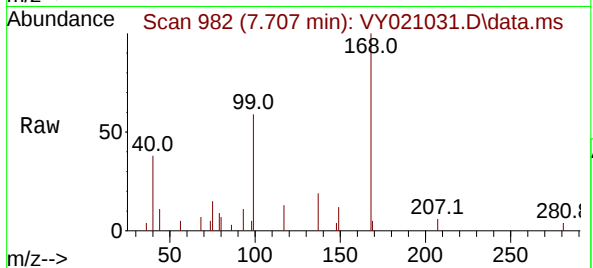




#36
1,1-Dichloropropene
Concen: 6.142 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.134 min
Lab File: VY021031.D
Acq: 03 Feb 2025 15:50

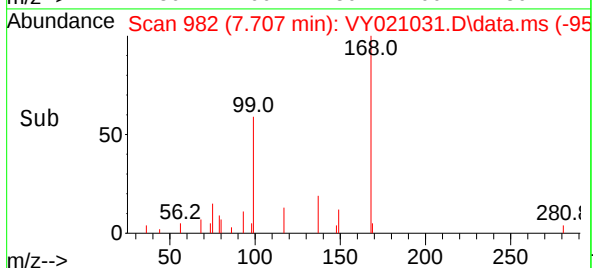
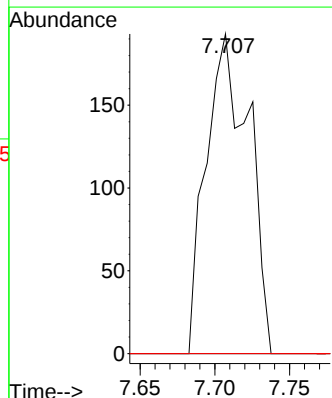
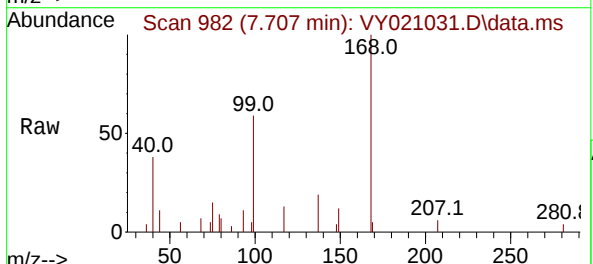
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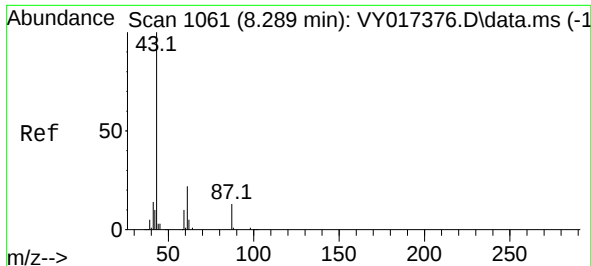
Tgt Ion: 75 Resp: 403
Ion Ratio Lower Upper
75 100
110 0.0 17.4 52.3#
77 0.0 24.7 37.1#



#38
Carbon Tetrachloride
Concen: 4.996 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.116 min
Lab File: VY021031.D
Acq: 03 Feb 2025 15:50

Tgt Ion: 117 Resp: 383
Ion Ratio Lower Upper
117 100
119 0.0 76.0 114.0#
121 0.0 24.2 36.2#





#43

Isopropyl Acetate

Concen: 1.032 ug/l

RT: 8.250 min Scan# 1

Delta R.T. 0.049 min

Lab File: VY021031.D

Acq: 03 Feb 2025 15:50

Instrument :

MSVOA_Y

ClientSampleId :

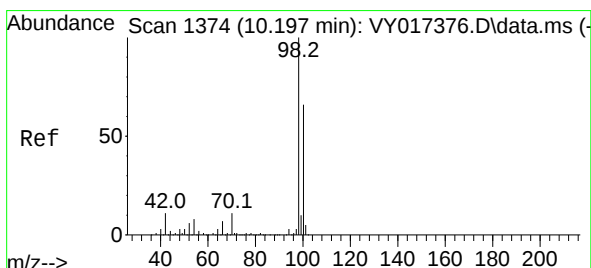
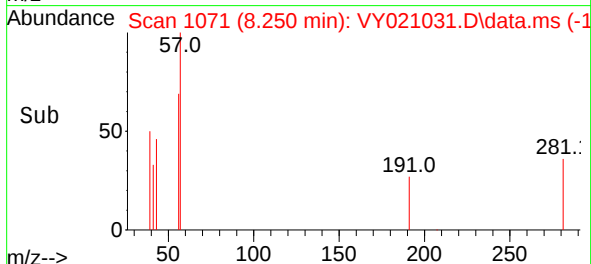
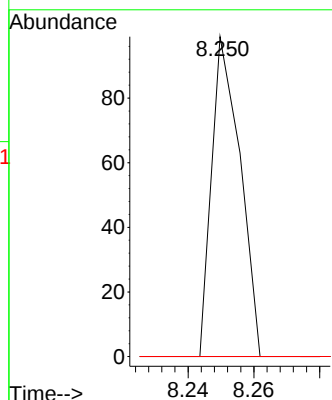
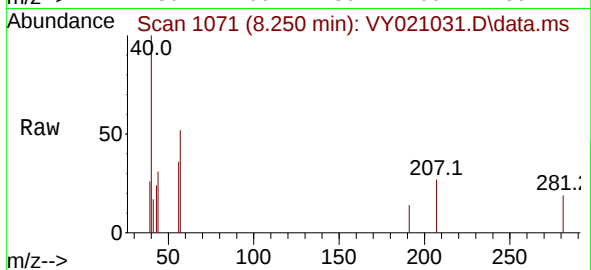
Tgt Ion: 43 Resp: 59

Ion Ratio Lower Upper

43 100

61 0.0 24.8 37.2#

87 0.0 10.7 16.1#



#50

Toluene-d8

Concen: 42.558 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. -0.000 min

Lab File: VY021031.D

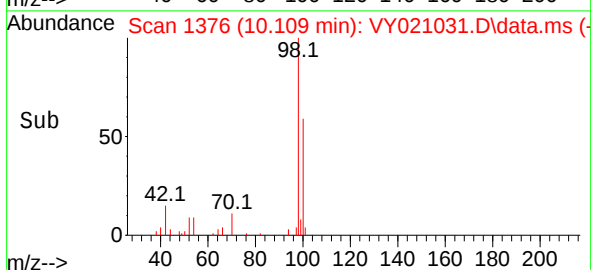
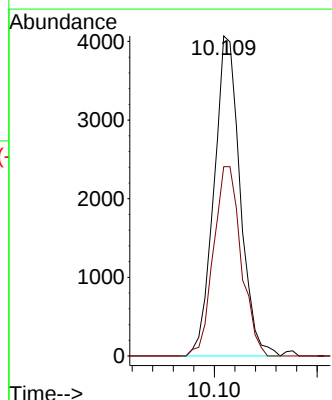
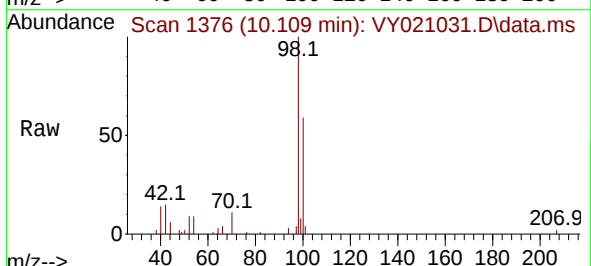
Acq: 03 Feb 2025 15:50

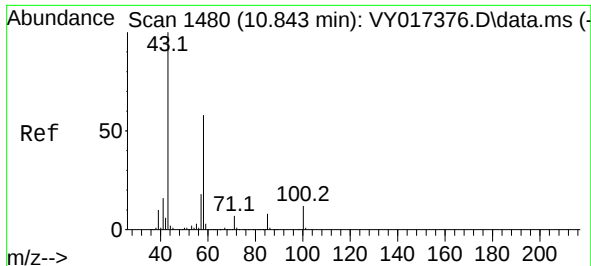
Tgt Ion: 98 Resp: 7177

Ion Ratio Lower Upper

98 100

100 62.7 52.3 78.5





#59

2-Hexanone

Concen: 2.592 ug/l

RT: 10.774 min Scan# 1480

Delta R.T. 0.006 min

Lab File: VY021031.D

Acq: 03 Feb 2025 15:50

Instrument :

MSVOA_Y

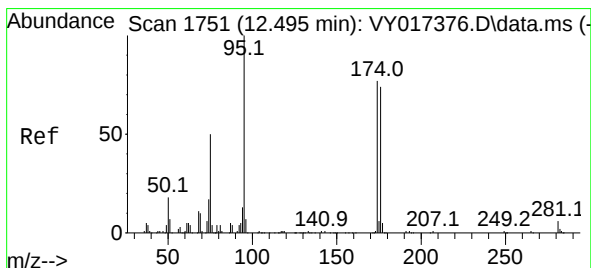
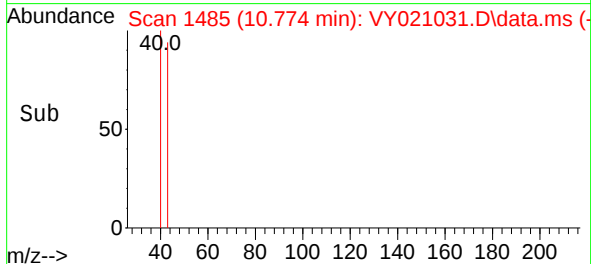
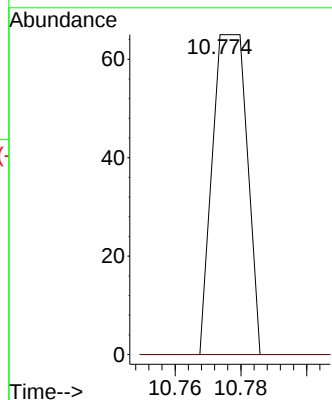
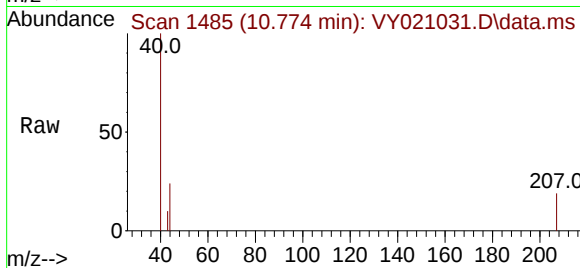
ClientSampleId :

Tgt Ion: 43 Resp: 48

Ion Ratio Lower Upper

43 100

58 0.0 28.1 84.3#



#62

4-Bromofluorobenzene

Concen: 13.595 ug/l

RT: 12.414 min Scan# 1754

Delta R.T. -0.000 min

Lab File: VY021031.D

Acq: 03 Feb 2025 15:50

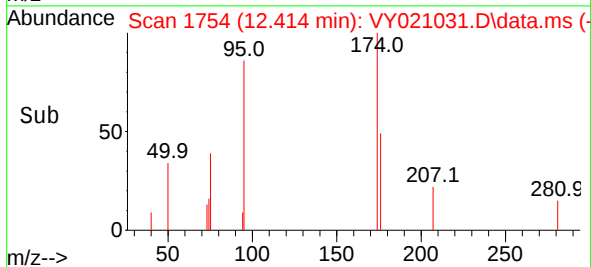
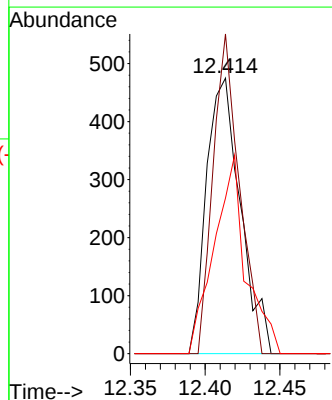
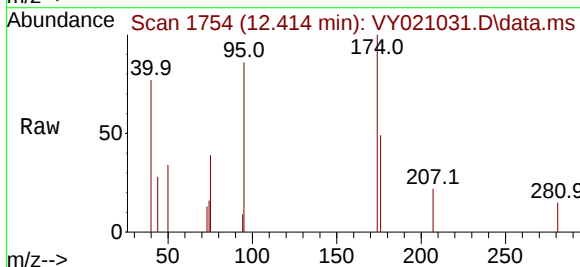
Tgt Ion: 95 Resp: 749

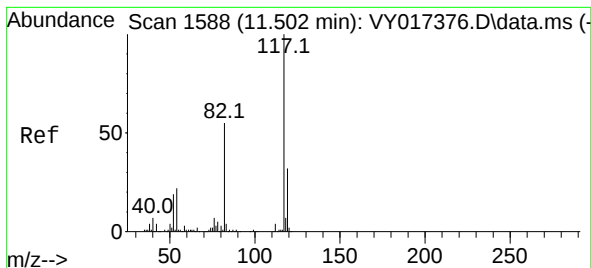
Ion Ratio Lower Upper

95 100

174 89.9 0.0 160.0

176 67.4 0.0 151.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY021031.D

Acq: 03 Feb 2025 15:50

Instrument :

MSVOA_Y

ClientSampleId :

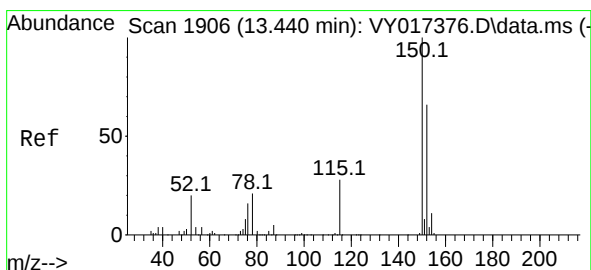
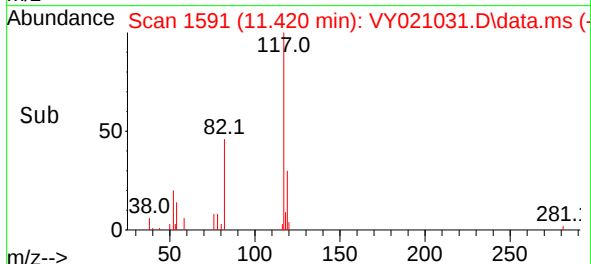
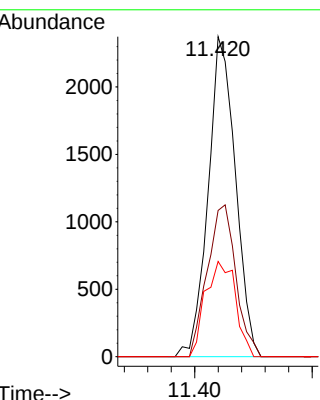
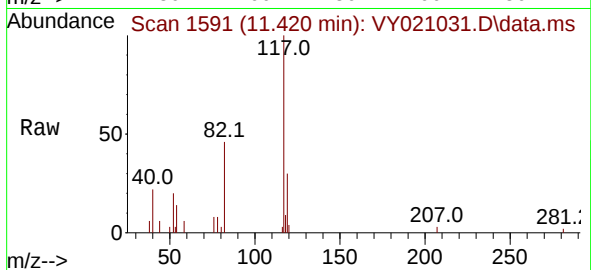
Tgt Ion:117 Resp: 3829

Ion Ratio Lower Upper

117 100

82 45.7 43.8 65.8

119 29.8 26.5 39.7



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.359 min Scan# 1909

Delta R.T. 0.006 min

Lab File: VY021031.D

Acq: 03 Feb 2025 15:50

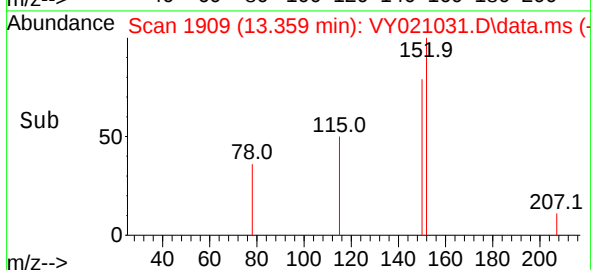
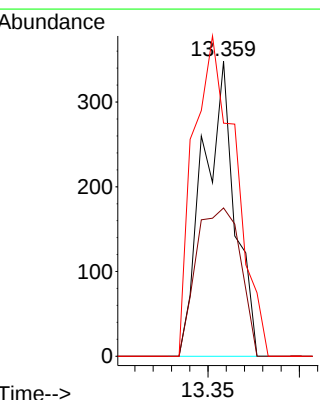
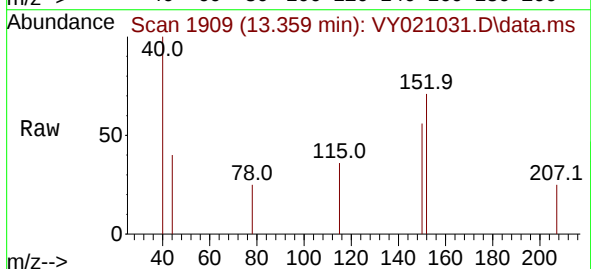
Tgt Ion:152 Resp: 420

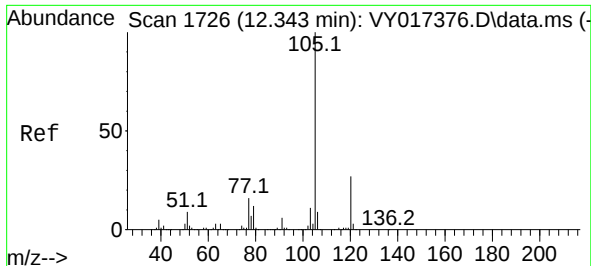
Ion Ratio Lower Upper

152 100

115 70.0 30.0 90.0

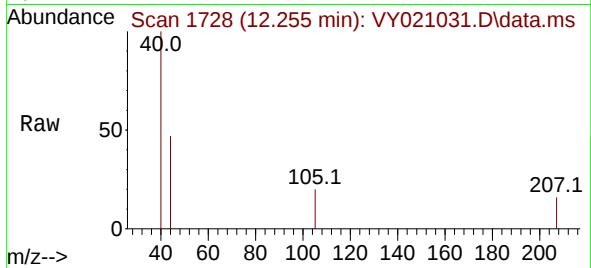
150 144.3 0.0 344.6



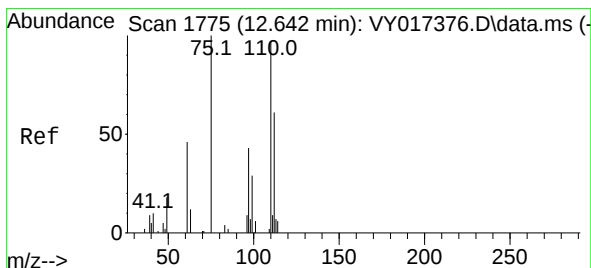
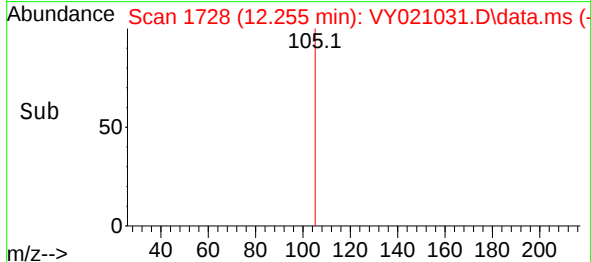
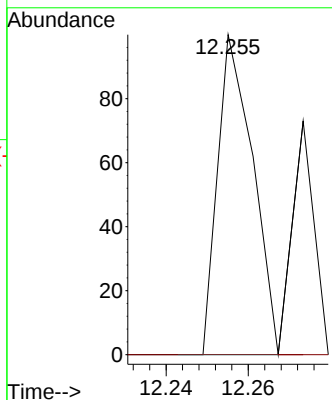


#73
Isopropylbenzene
Concen: 1.798 ug/l
RT: 12.255 min Scan# 1753
Delta R.T. -0.006 min
Lab File: VY021031.D
Acq: 03 Feb 2025 15:50

Instrument :
MSVOA_Y
ClientSampleId :

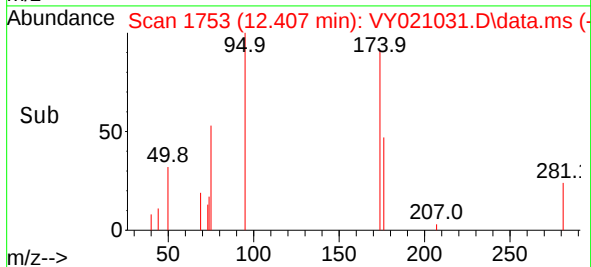
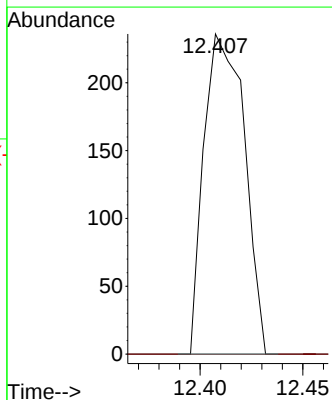
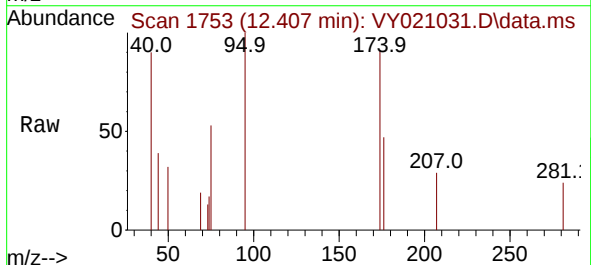


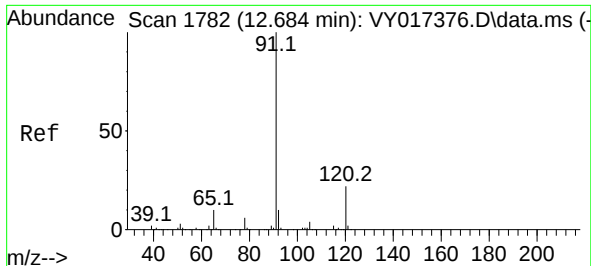
Tgt Ion:105 Resp: 59
Ion Ratio Lower Upper
105 100
120 0.0 13.0 39.0#



#76
1,2,3-Trichloropropane
Concen: 84.779 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.153 min
Lab File: VY021031.D
Acq: 03 Feb 2025 15:50

Tgt Ion: 75 Resp: 323
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0





#78

n-propylbenzene

Concen: 2.789 ug/l

RT: 12.596 min Scan# 1784

Delta R.T. -0.006 min

Lab File: VY021031.D

Acq: 03 Feb 2025 15:50

Instrument :

MSVOA_Y

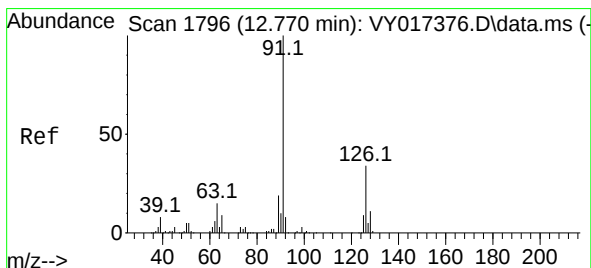
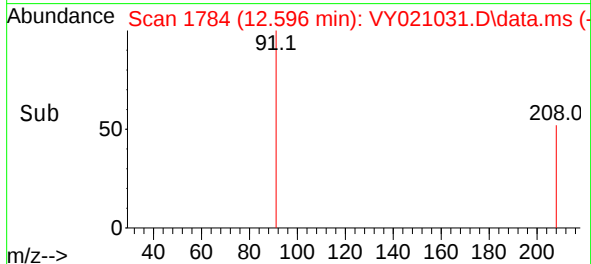
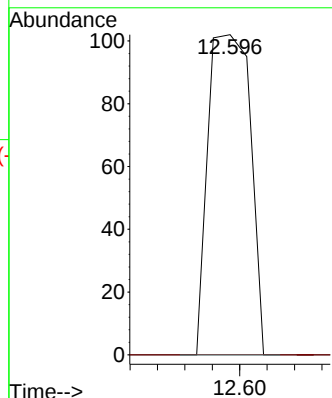
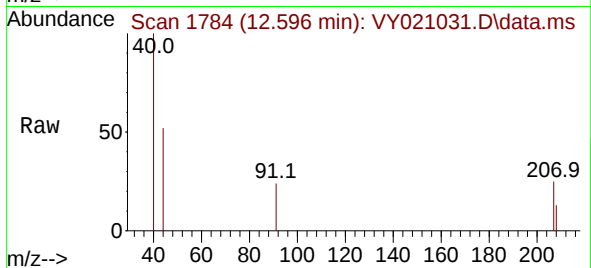
ClientSampleId :

Tgt Ion: 91 Resp: 109

Ion Ratio Lower Upper

91 100

120 0.0 11.0 33.0#



#79

2-Chlorotoluene

Concen: 5.182 ug/l

RT: 12.682 min Scan# 1798

Delta R.T. -0.006 min

Lab File: VY021031.D

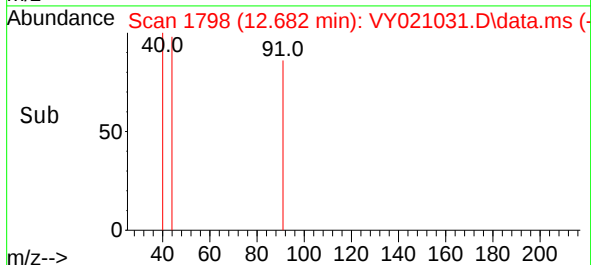
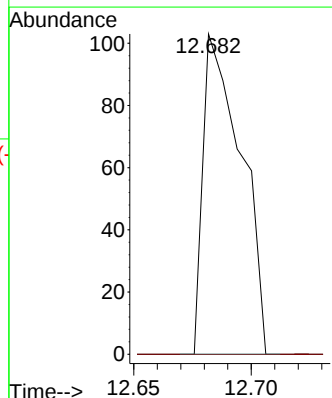
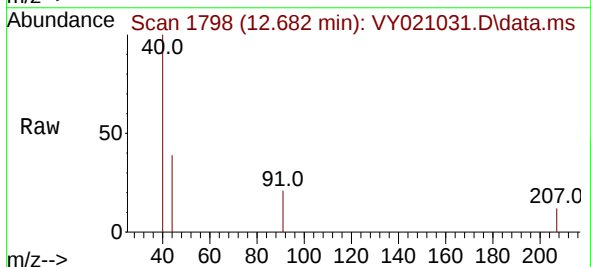
Acq: 03 Feb 2025 15:50

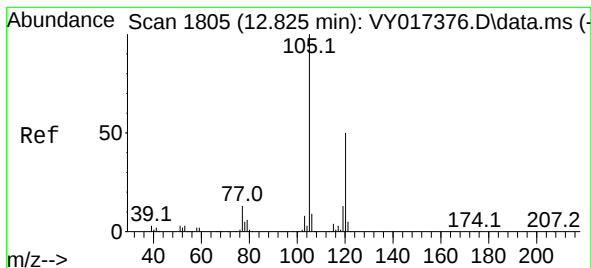
Tgt Ion: 91 Resp: 116

Ion Ratio Lower Upper

91 100

126 0.0 17.0 51.0#





#80

1,3,5-Trimethylbenzene

Concen: 3.008 ug/l

RT: 12.743 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY021031.D

Acq: 03 Feb 2025 15:50

Instrument :

MSVOA_Y

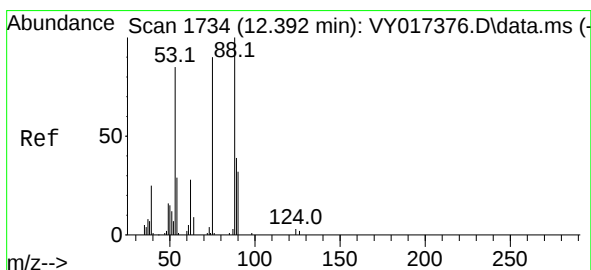
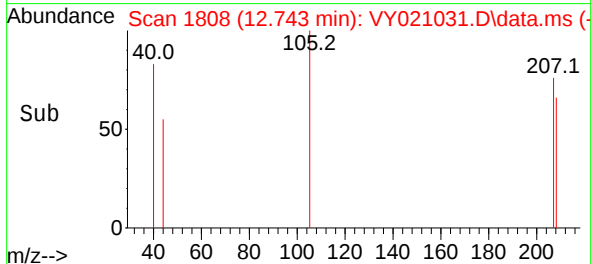
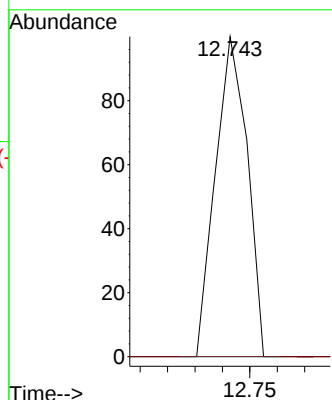
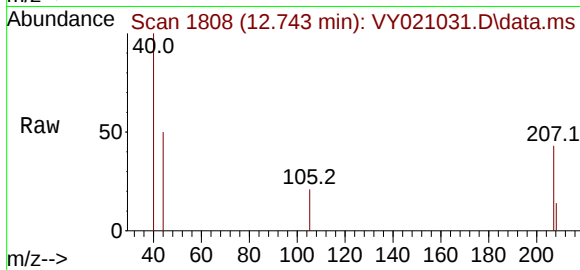
ClientSampleId :

Tgt Ion:105 Resp: 80

Ion Ratio Lower Upper

105 100

120 0.0 24.3 72.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 172.989 ug/l

RT: 12.407 min Scan# 1753

Delta R.T. 0.097 min

Lab File: VY021031.D

Acq: 03 Feb 2025 15:50

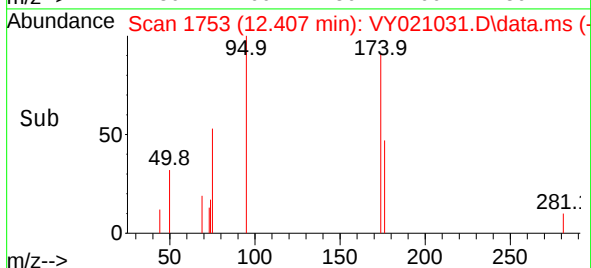
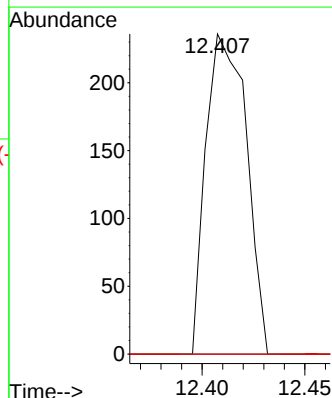
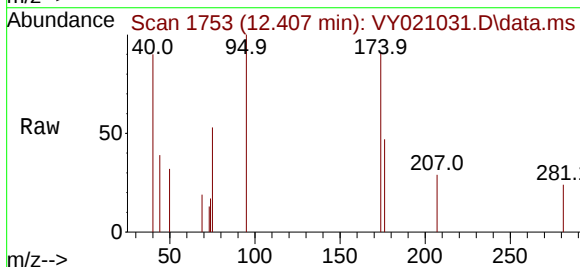
Tgt Ion: 75 Resp: 323

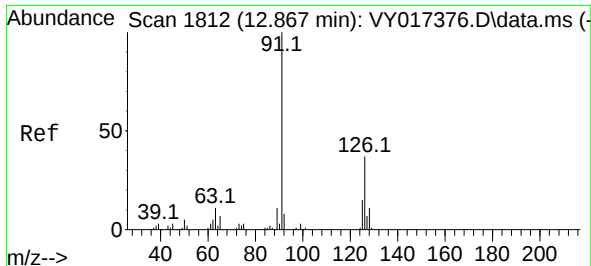
Ion Ratio Lower Upper

75 100

53 0.0 74.0 111.0#

89 0.0 36.5 54.7#





#82

4-Chlorotoluene

Concen: 5.086 ug/l

RT: 12.682 min Scan# 1

Delta R.T. -0.104 min

Lab File: VY021031.D

Acq: 03 Feb 2025 15:50

Instrument :

MSVOA_Y

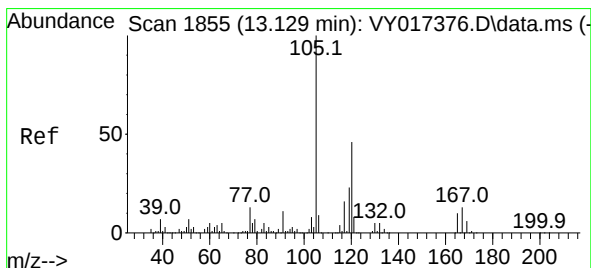
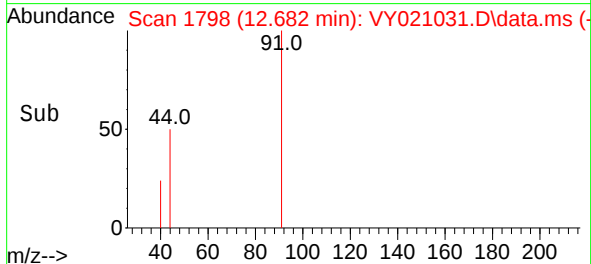
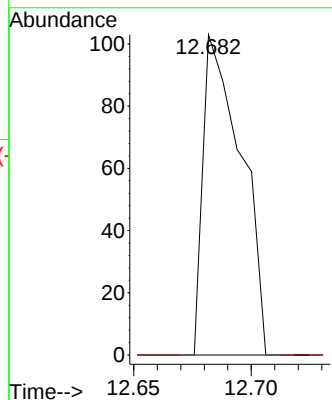
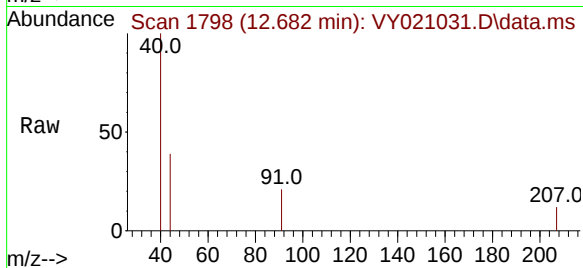
ClientSampleId :

Tgt Ion: 91 Resp: 116

Ion Ratio Lower Upper

91 100

126 0.0 17.1 51.2#



#84

1,2,4-Trimethylbenzene

Concen: 5.191 ug/l

RT: 13.042 min Scan# 1857

Delta R.T. -0.006 min

Lab File: VY021031.D

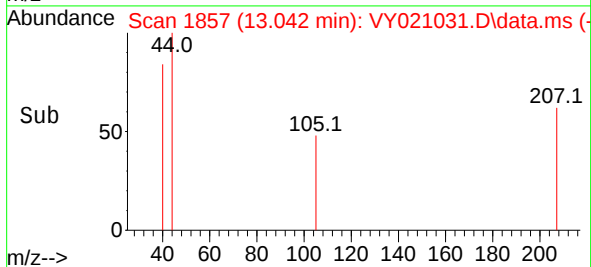
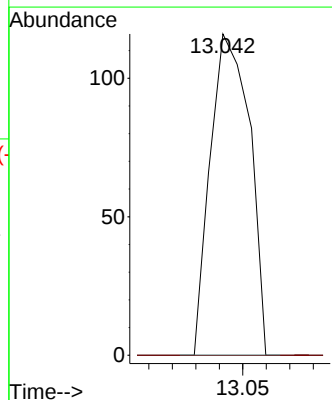
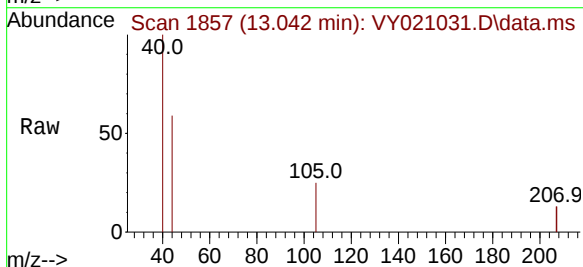
Acq: 03 Feb 2025 15:50

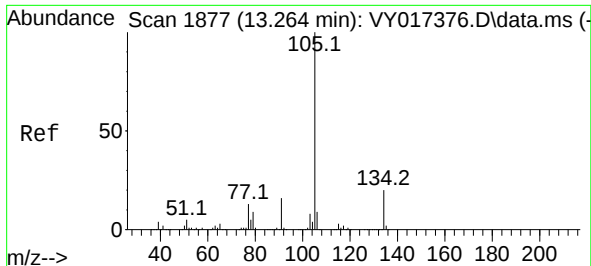
Tgt Ion: 105 Resp: 135

Ion Ratio Lower Upper

105 100

120 0.0 22.1 66.3#





#85

sec-Butylbenzene

Concen: 1.925 ug/l

RT: 13.188 min Scan# 1881

Delta R.T. 0.006 min

Lab File: VY021031.D

Acq: 03 Feb 2025 15:50

Instrument :

MSVOA_Y

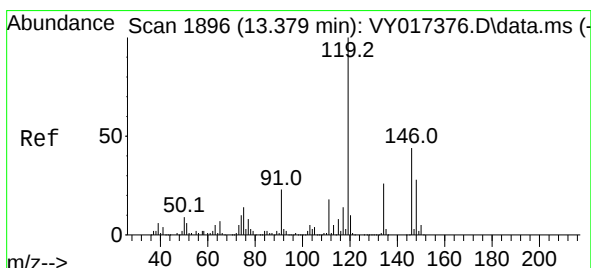
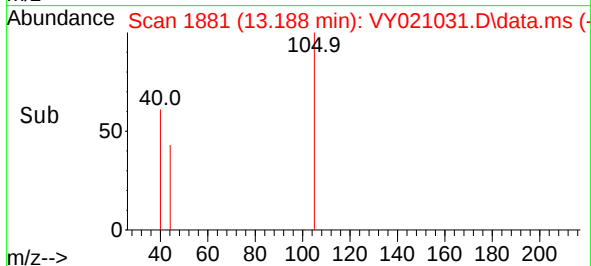
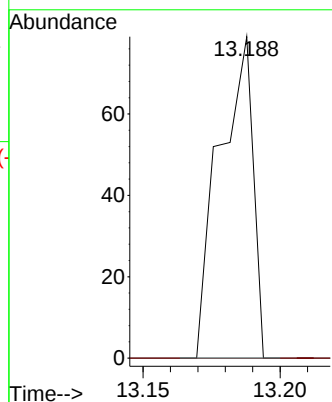
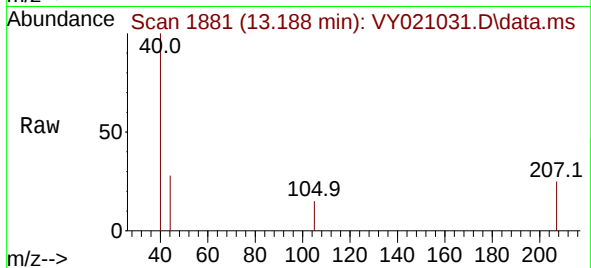
ClientSampleId :

Tgt Ion:105 Resp: 67

Ion Ratio Lower Upper

105 100

134 0.0 9.7 28.9#



#87

1,3-Dichlorobenzene

Concen: 4.652 ug/l

RT: 13.285 min Scan# 1897

Delta R.T. -0.006 min

Lab File: VY021031.D

Acq: 03 Feb 2025 15:50

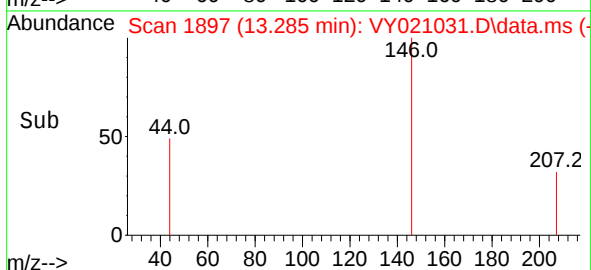
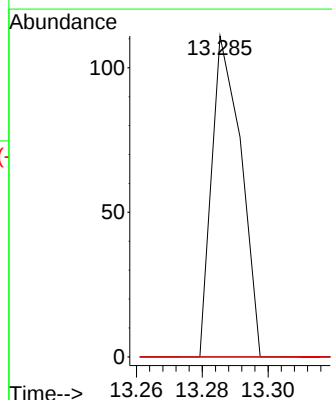
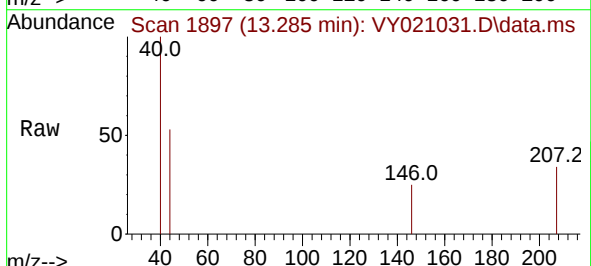
Tgt Ion:146 Resp: 68

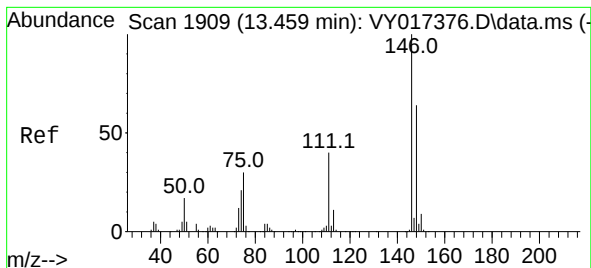
Ion Ratio Lower Upper

146 100

111 0.0 20.2 60.5#

148 0.0 31.9 95.9#





#88

1,4-Dichlorobenzene

Concen: 4.724 ug/l

RT: 13.285 min Scan# 11

Delta R.T. -0.086 min

Lab File: VY021031.D

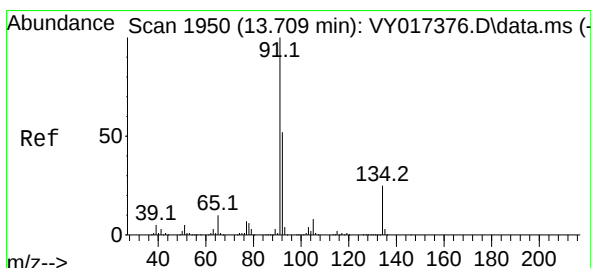
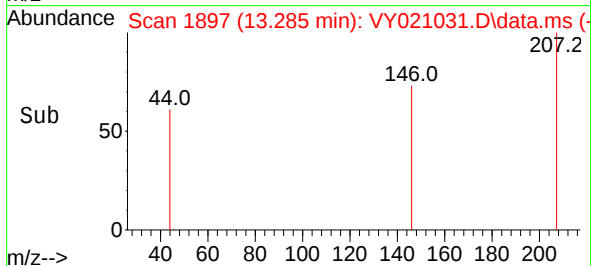
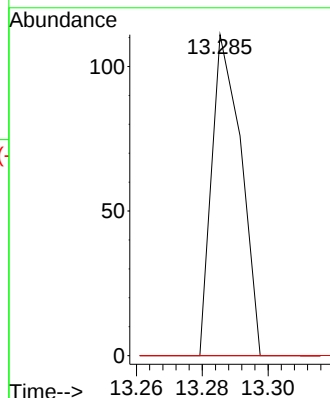
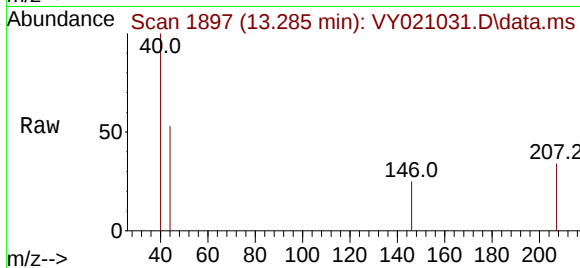
Acq: 03 Feb 2025 15:50

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:	146	Resp:	68
Ion	Ratio	Lower	Upper
146	100		
111	0.0	19.3	57.9#
148	0.0	31.6	94.7#



#89

n-Butylbenzene

Concen: 1.100 ug/l

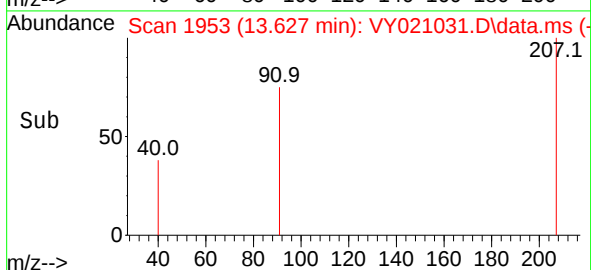
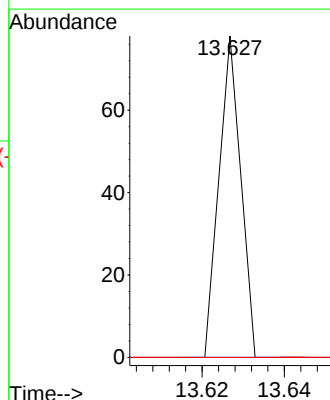
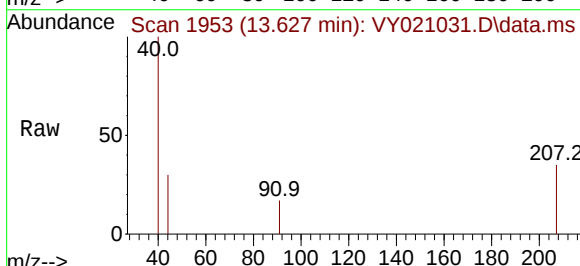
RT: 13.627 min Scan# 1953

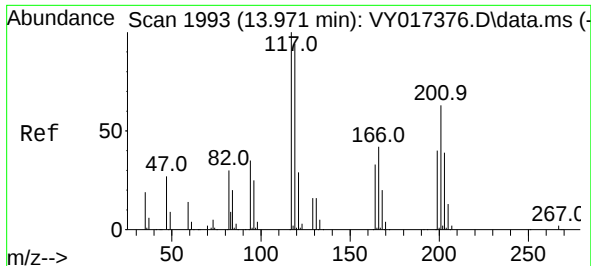
Delta R.T. 0.006 min

Lab File: VY021031.D

Acq: 03 Feb 2025 15:50

Tgt Ion:	91	Resp:	29
Ion	Ratio	Lower	Upper
91	100		
92	0.0	26.4	79.2#
134	0.0	12.3	36.8#





#90

Hexachloroethane

Concen: 3.150 ug/l

RT: 13.895 min Scan# 1997

Delta R.T. 0.006 min

Lab File: VY021031.D

Acq: 03 Feb 2025 15:50

Instrument :

MSVOA_Y

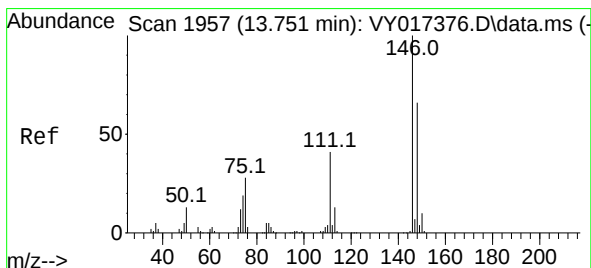
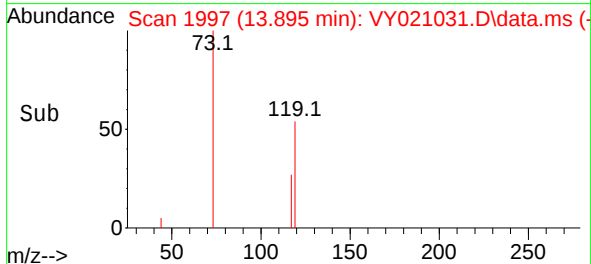
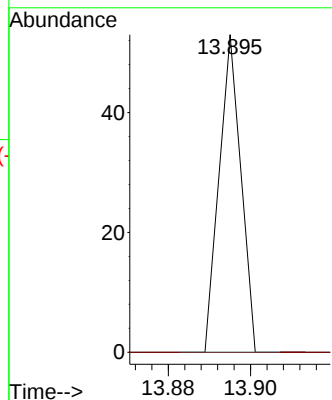
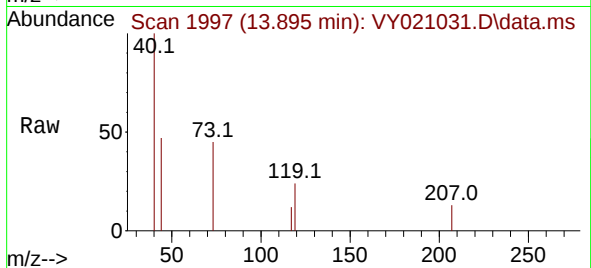
ClientSampleId :

Tgt Ion:117 Resp: 19

Ion Ratio Lower Upper

117 100

201 0.0 33.4 100.1#



#91

1,2-Dichlorobenzene

Concen: 5.753 ug/l

RT: 13.651 min Scan# 1957

Delta R.T. -0.012 min

Lab File: VY021031.D

Acq: 03 Feb 2025 15:50

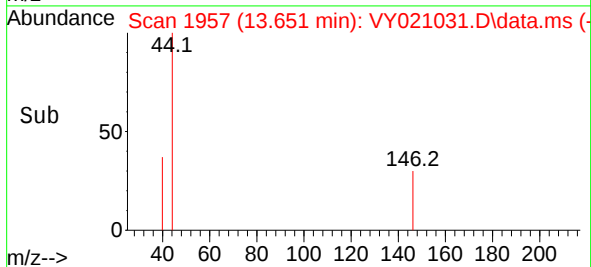
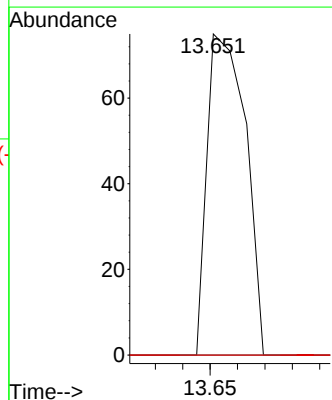
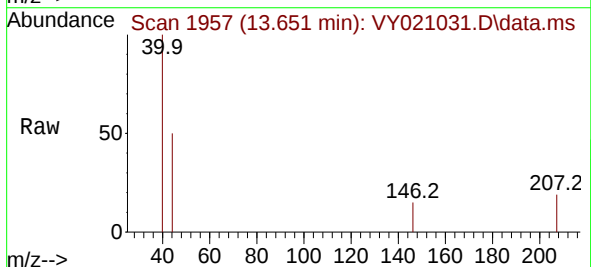
Tgt Ion:146 Resp: 73

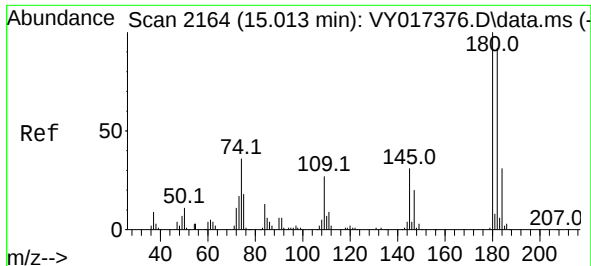
Ion Ratio Lower Upper

146 100

111 0.0 20.5 61.6#

148 0.0 31.4 94.3#





#93

1,2,4-Trichlorobenzene

Concen: 15.717 ug/l

RT: 14.931 min Scan# 2164

Delta R.T. 0.006 min

Lab File: VY021031.D

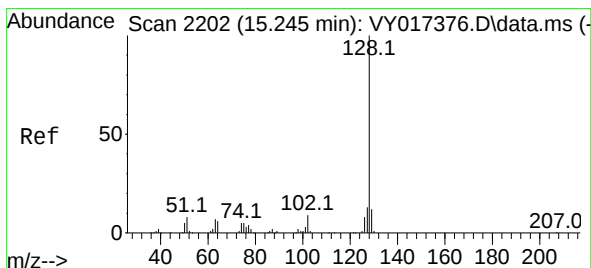
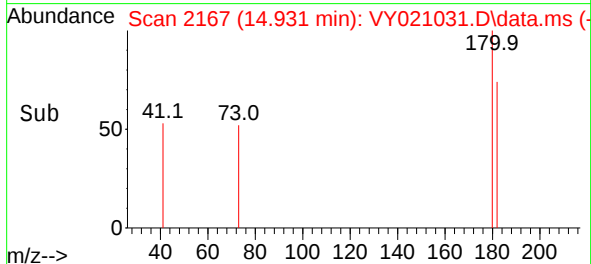
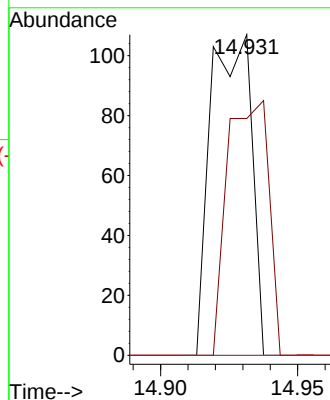
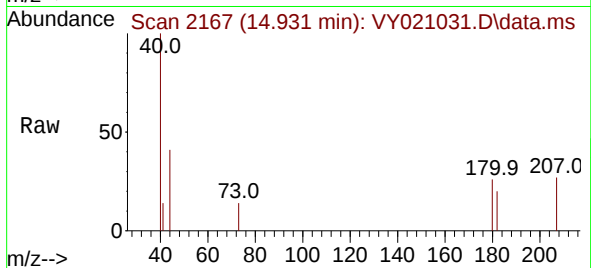
Acq: 03 Feb 2025 15:50

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:	180	Resp:	111
Ion	Ratio	Lower	Upper
180	100		
182	80.2	47.9	143.7
145	0.0	15.9	47.7#



#95

Naphthalene

Concen: 27.082 ug/l

RT: 15.151 min Scan# 2203

Delta R.T. -0.000 min

Lab File: VY021031.D

Acq: 03 Feb 2025 15:50

Tgt Ion:	128	Resp:	306
Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.4#
129	0.0	8.6	12.8#

