

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032125\
 Data File : VY021594.D
 Acq On : 21 Mar 2025 13:05
 Operator : SY/MD
 Sample : Q1611-01
 Misc : 4.99g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 RBR200030

Quant Time: Mar 21 23:10:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 05 12:42:45 2025
 Response via : Initial Calibration

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

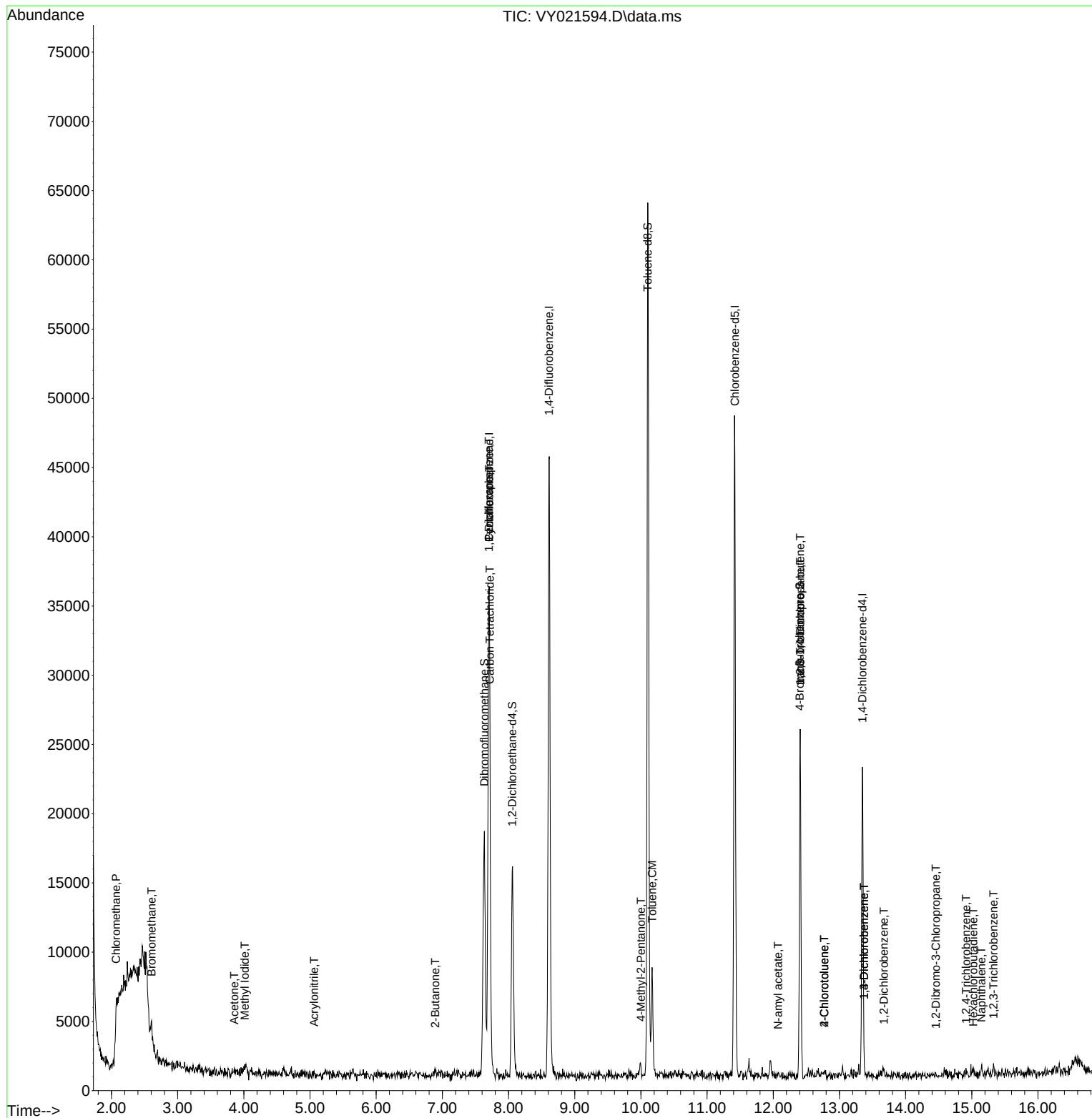
Internal Standards						
1) Pentafluorobenzene	7.707	168	27012	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	37967	50.000	ug/l	-0.01
63) Chlorobenzene-d5	11.420	117	25681	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	5401	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	11636	40.756	ug/l	-0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	=	81.520%
35) Dibromofluoromethane	7.634	113	12524	50.184	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	100.360%
50) Toluene-d8	10.103	98	40934	43.320	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	86.640%
62) 4-Bromofluorobenzene	12.402	95	7635	23.754	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	47.500%
Target Compounds						
					Qvalue	
3) Chloromethane	2.068	50	1137	3.253	ug/l #	86
5) Bromomethane	2.605	94	937	3.395	ug/l #	75
10) Methyl Iodide	4.013	142	1484	4.797	ug/l #	66
11) Tert butyl alcohol	4.629	59	22	Below Cal	#	72
15) Acrylonitrile	5.061	53	81	1.288	ug/l #	17
16) Acetone	3.854	43	481	7.724	ug/l #	47
25) 2-Butanone	6.890	43	613	7.116	ug/l #	48
31) Cyclohexane	7.707	56	665	1.244	ug/l #	1
36) 1,1-Dichloropropene	7.701	75	2341	5.993	ug/l #	52
38) Carbon Tetrachloride	7.720	117	3004	6.686	ug/l #	17
51) 4-Methyl-2-Pentanone	10.000	43	544	3.146	ug/l	96
52) Toluene	10.170	92	3136	4.323	ug/l	96
74) N-amyl acetate	12.072	43	188	2.035	ug/l #	49
76) 1,2,3-Trichloropropane	12.408	75	4168	76.582	ug/l #	100
79) 2-Chlorotoluene	12.773	91	382	1.293	ug/l	100
81) trans-1,4-Dichloro-2-b...	12.408	75	4168	174.096	ug/l #	9
82) 4-Chlorotoluene	12.773	91	382	1.249	ug/l	99
87) 1,3-Dichlorobenzene	13.371	146	352	1.777	ug/l	72
88) 1,4-Dichlorobenzene	13.371	146	352	1.817	ug/l	71
91) 1,2-Dichlorobenzene	13.670	146	304	1.790	ug/l #	67
92) 1,2-Dibromo-3-Chloropr...	14.456	75	20	1.778	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.913	180	252	2.717	ug/l #	70
94) Hexachlorobutadiene	15.023	225	90	1.548	ug/l #	19
95) Naphthalene	15.145	128	535	5.081	ug/l #	90
96) 1,2,3-Trichlorobenzene	15.328	180	264	3.384	ug/l	86

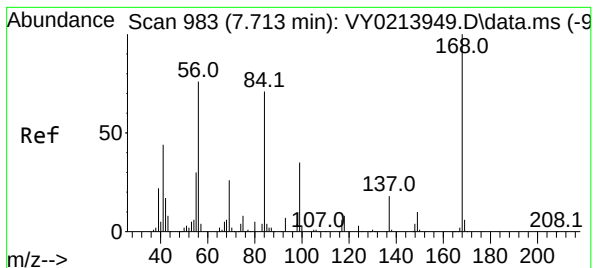
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Mar 05 12:42:45 2025
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.707 min Scan# 9

Delta R.T. -0.006 min

Lab File: VY021594.D

Acq: 21 Mar 2025 13:05

Instrument :

MSVOA_Y

ClientSampleId :

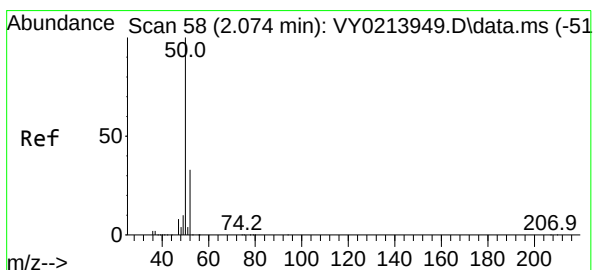
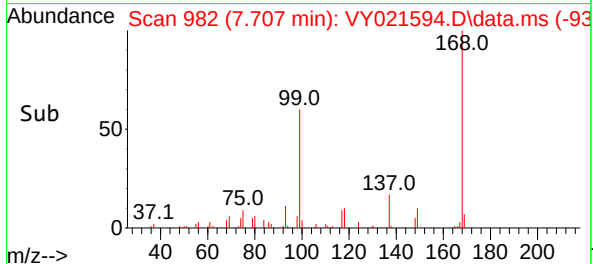
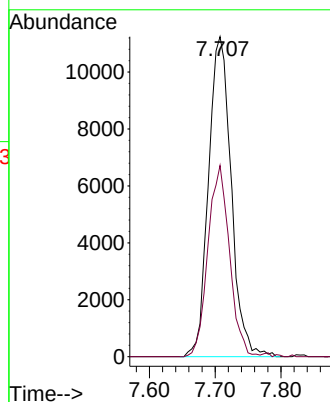
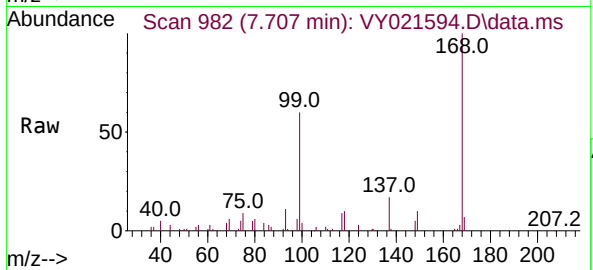
RBR200030

Tgt Ion:168 Resp: 27012

Ion Ratio Lower Upper

168 100

99 59.7 46.0 69.0



#3

Chloromethane

Concen: 3.253 ug/l

RT: 2.068 min Scan# 57

Delta R.T. -0.006 min

Lab File: VY021594.D

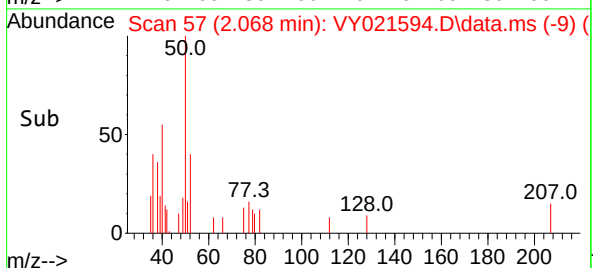
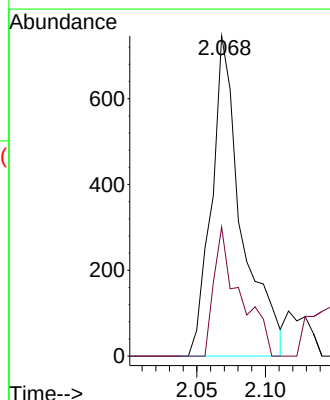
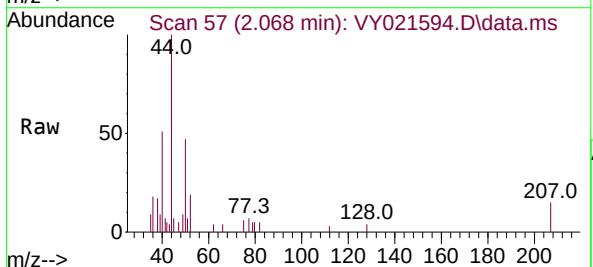
Acq: 21 Mar 2025 13:05

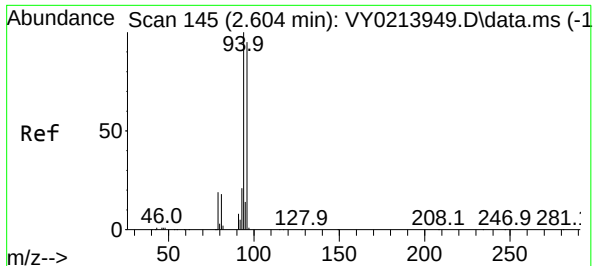
Tgt Ion: 50 Resp: 1137

Ion Ratio Lower Upper

50 100

52 40.3 26.2 39.2#

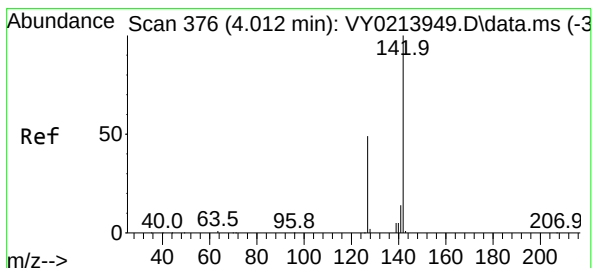
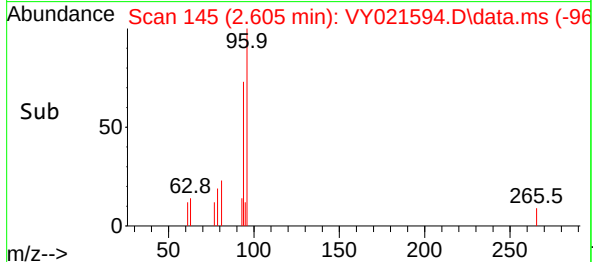
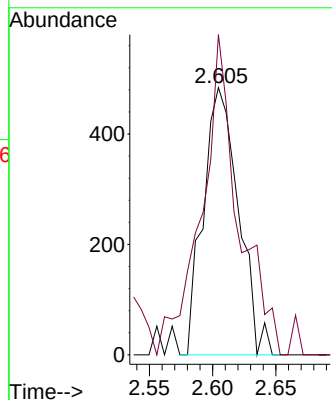
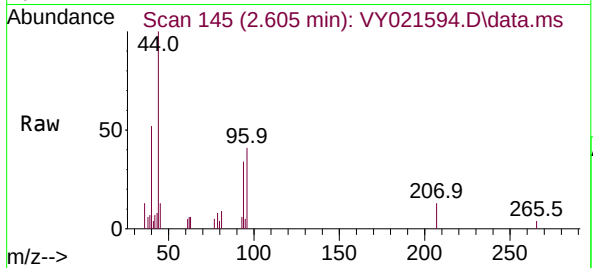




#5
Bromomethane
Concen: 3.395 ug/l
RT: 2.605 min Scan# 145
Delta R.T. 0.000 min
Lab File: VY021594.D
Acq: 21 Mar 2025 13:05

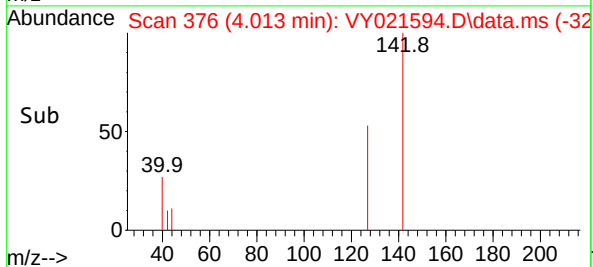
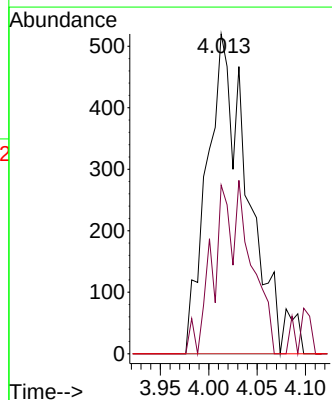
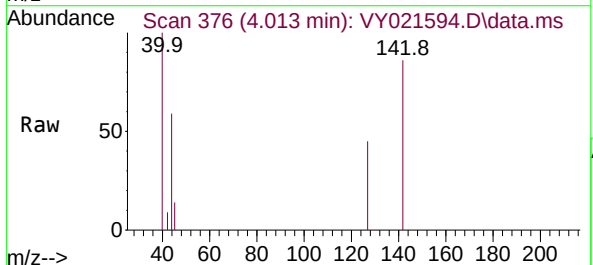
Instrument :
MSVOA_Y
ClientSampleId :
RBR200030

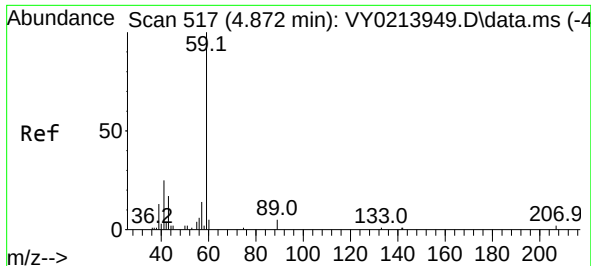
Tgt Ion: 94 Resp: 937
Ion Ratio Lower Upper
94 100
96 119.8 76.3 114.5#



#10
Methyl Iodide
Concen: 4.797 ug/l
RT: 4.013 min Scan# 376
Delta R.T. 0.000 min
Lab File: VY021594.D
Acq: 21 Mar 2025 13:05

Tgt Ion:142 Resp: 1484
Ion Ratio Lower Upper
142 100
127 26.3 39.1 58.7#
141 0.0 11.8 17.6#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.629 min Scan# 41

Delta R.T. -0.243 min

Lab File: VY021594.D

Acq: 21 Mar 2025 13:05

Instrument :

MSVOA_Y

ClientSampleId :

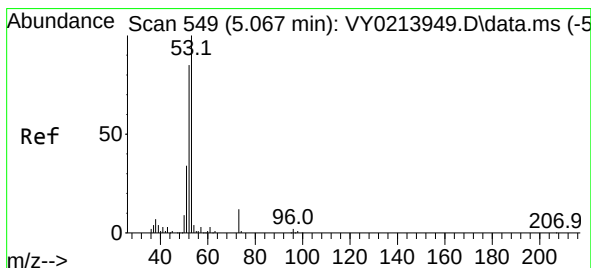
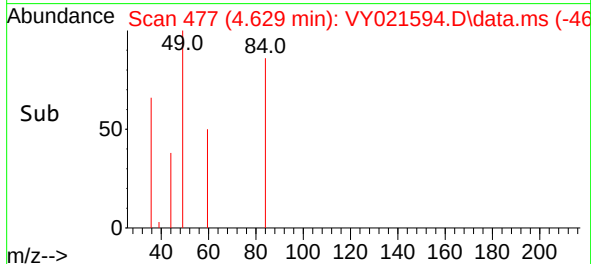
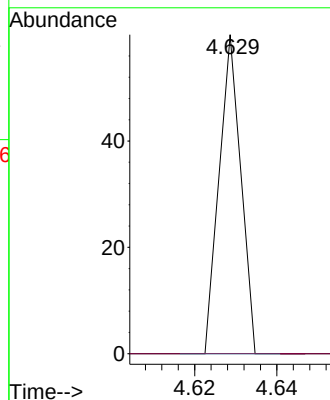
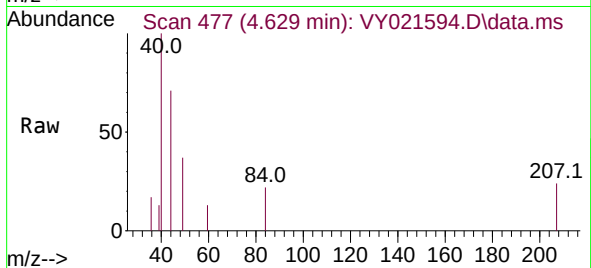
RBR200030

Tgt Ion: 59 Resp: 22

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#15

Acrylonitrile

Concen: 1.288 ug/l

RT: 5.061 min Scan# 548

Delta R.T. -0.006 min

Lab File: VY021594.D

Acq: 21 Mar 2025 13:05

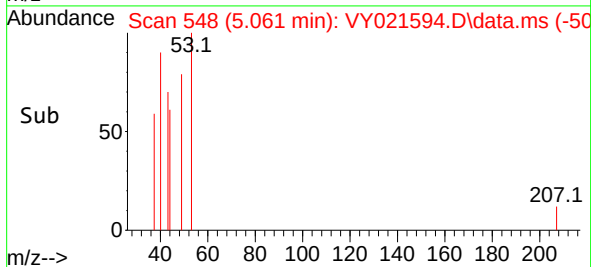
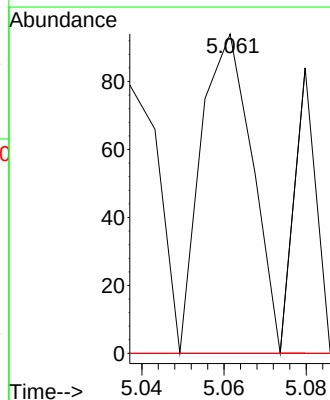
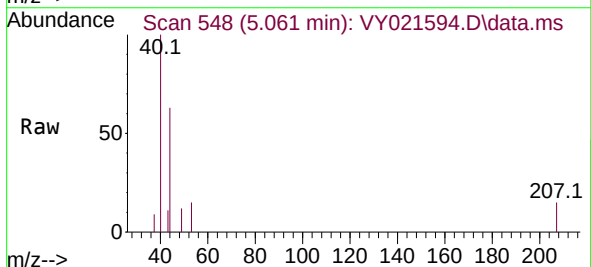
Tgt Ion: 53 Resp: 81

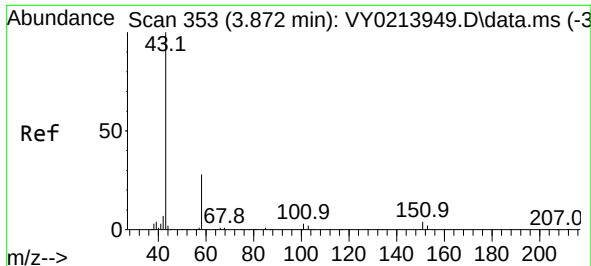
Ion Ratio Lower Upper

53 100

52 0.0 66.3 99.5#

51 0.0 30.3 45.5#

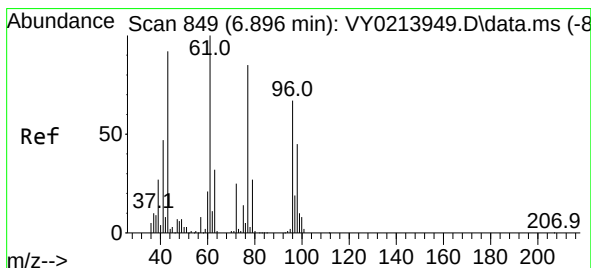
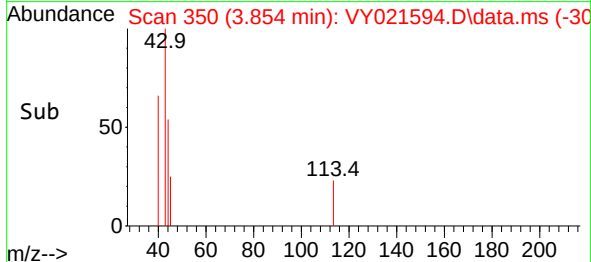
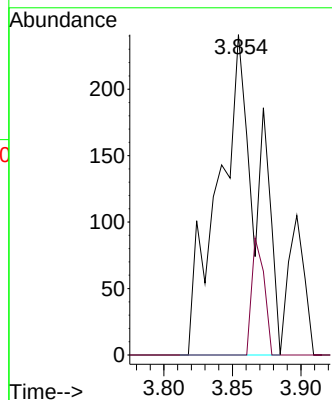
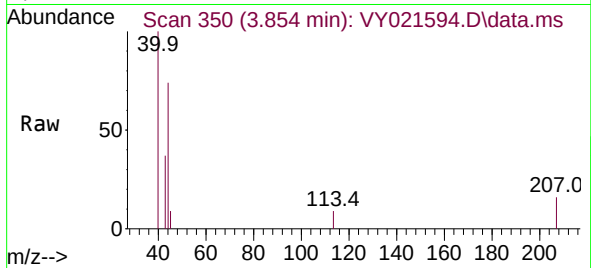




#16
Acetone
Concen: 7.724 ug/l
RT: 3.854 min Scan# 31
Delta R.T. -0.018 min
Lab File: VY021594.D
Acq: 21 Mar 2025 13:05

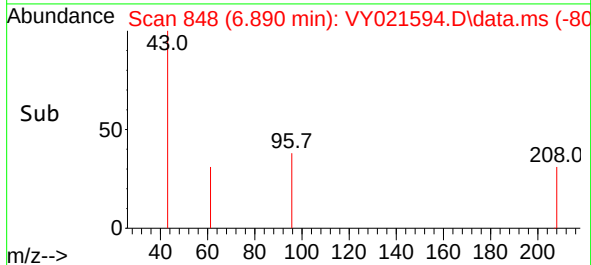
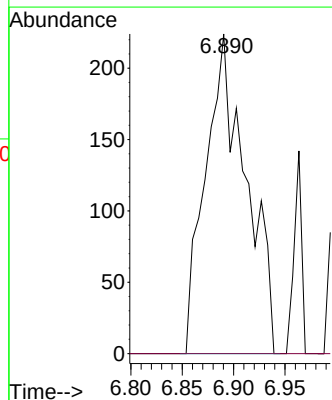
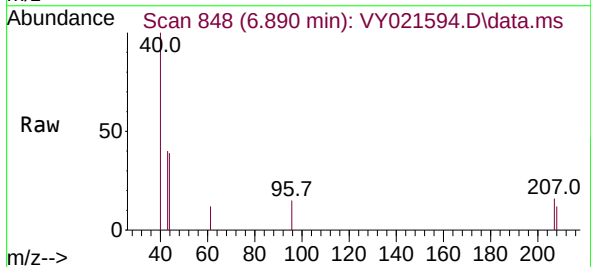
Instrument :
MSVOA_Y
ClientSampleId :
RBR200030

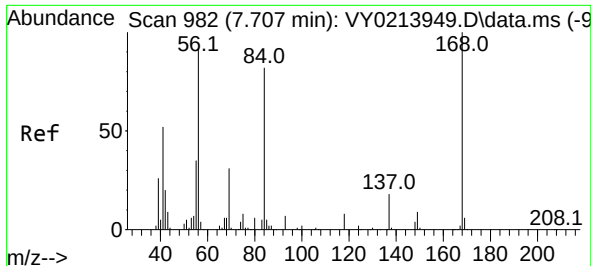
Tgt Ion: 43 Resp: 481
Ion Ratio Lower Upper
43 100
58 0.0 22.1 33.1#



#25
2-Butanone
Concen: 7.116 ug/l
RT: 6.890 min Scan# 848
Delta R.T. -0.006 min
Lab File: VY021594.D
Acq: 21 Mar 2025 13:05

Tgt Ion: 43 Resp: 613
Ion Ratio Lower Upper
43 100
72 0.0 21.4 32.0#

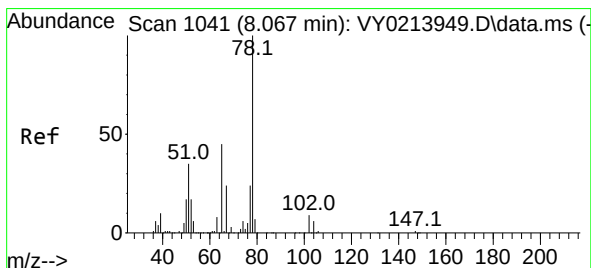
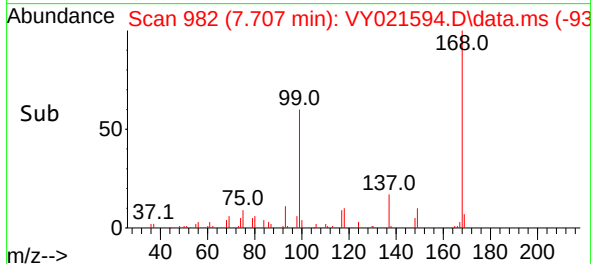
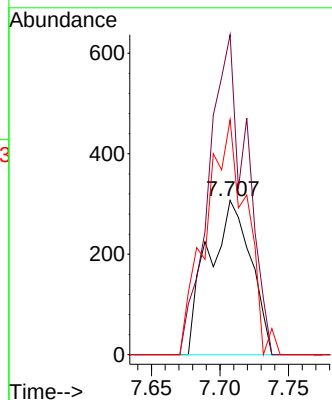
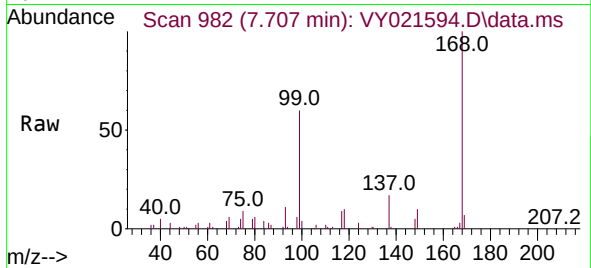




#31
Cyclohexane
Concen: 1.244 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY021594.D
Acq: 21 Mar 2025 13:05

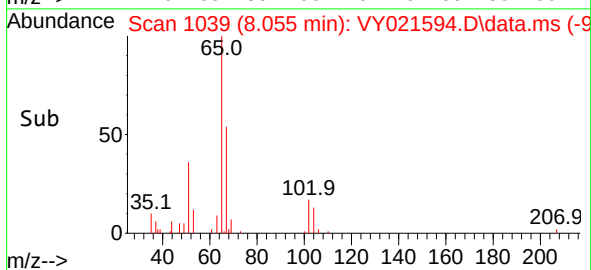
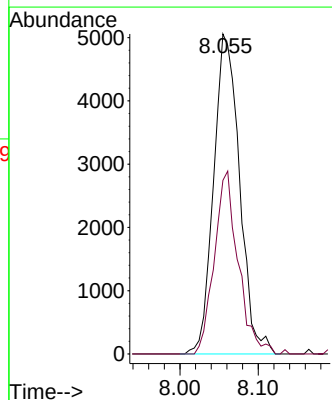
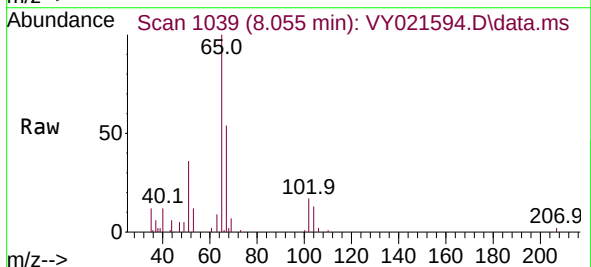
Instrument :
MSVOA_Y
ClientSampleId :
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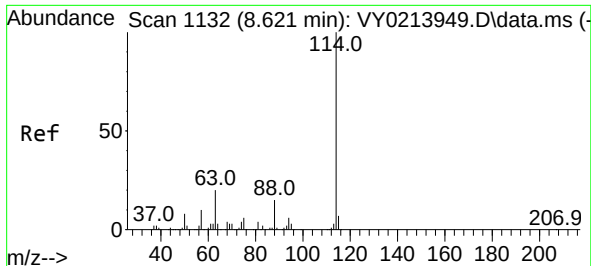
Tgt Ion: 56 Resp: 665
Ion Ratio Lower Upper
56 100
69 207.5 27.0 40.4#
84 152.4 71.1 106.7#



#33
1,2-Dichloroethane-d4
Concen: 40.756 ug/l
RT: 8.055 min Scan# 1039
Delta R.T. -0.012 min
Lab File: VY021594.D
Acq: 21 Mar 2025 13:05

Tgt Ion: 65 Resp: 11636
Ion Ratio Lower Upper
65 100
67 52.5 0.0 102.8

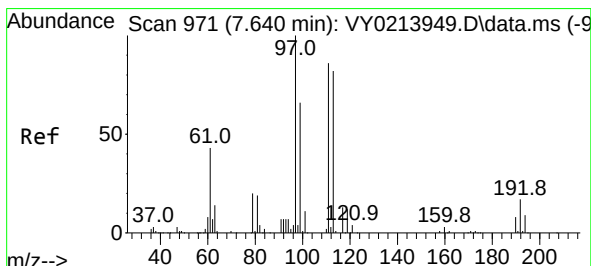
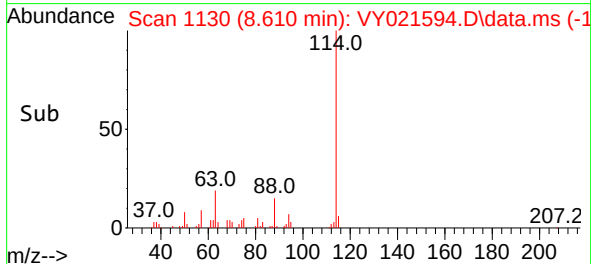
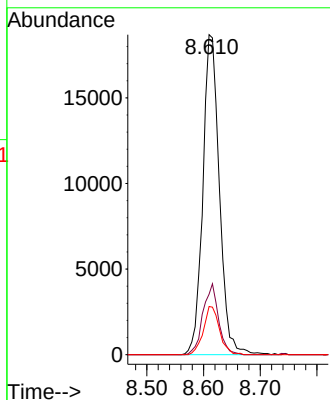
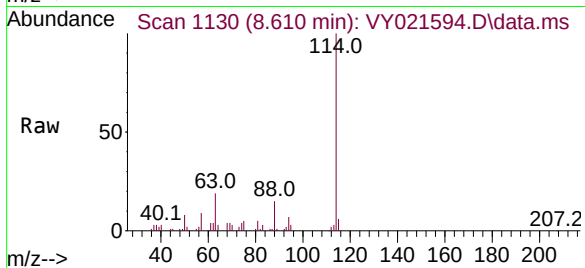




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.610 min Scan# 1132
Delta R.T. -0.012 min
Lab File: VY021594.D
Acq: 21 Mar 2025 13:05

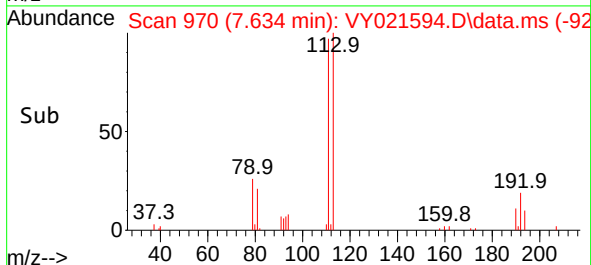
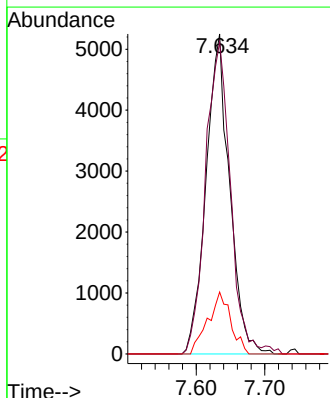
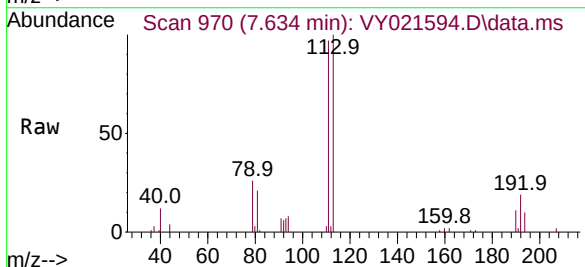
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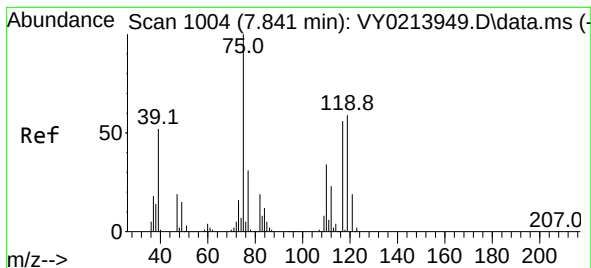
Tgt Ion:114	Resp:	37967
Ion Ratio	Lower	Upper
114	100	
63	18.9	0.0 40.8
88	15.1	0.0 30.8



#35
Dibromofluoromethane
Concen: 50.184 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.006 min
Lab File: VY021594.D
Acq: 21 Mar 2025 13:05

Tgt Ion:113	Resp:	12524
Ion Ratio	Lower	Upper
113	100	
111	103.2	82.0 123.0
192	18.8	15.9 23.9





#36

1,1-Dichloropropene

Concen: 5.993 ug/l

RT: 7.701 min Scan# 91

Delta R.T. -0.140 min

Lab File: VY021594.D

Acq: 21 Mar 2025 13:05

Instrument :

MSVOA_Y

ClientSampleId :

RBR200030

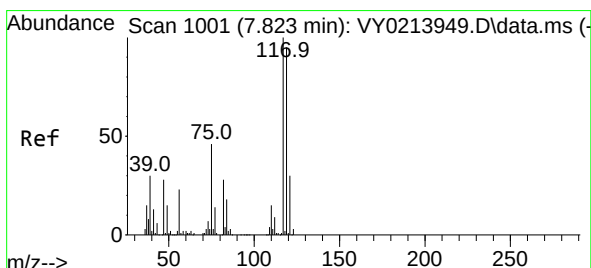
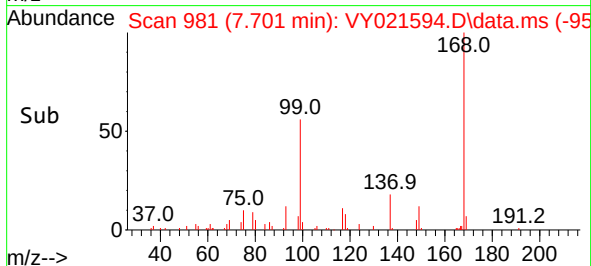
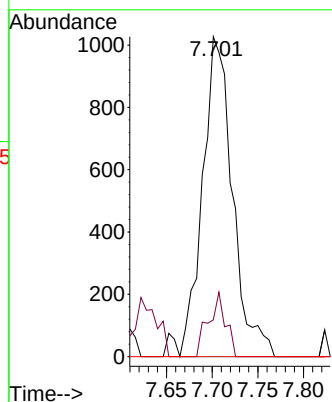
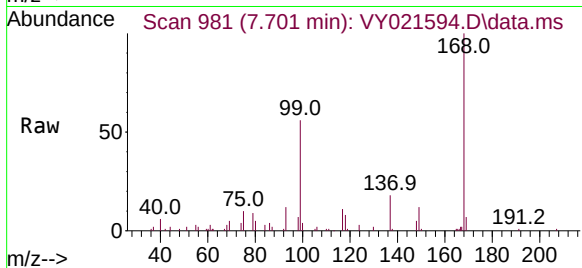
Tgt Ion: 75 Resp: 2341

Ion Ratio Lower Upper

75 100

110 11.6 17.3 51.7#

77 0.0 25.4 38.2#



#38

Carbon Tetrachloride

Concen: 6.686 ug/l

RT: 7.720 min Scan# 984

Delta R.T. -0.103 min

Lab File: VY021594.D

Acq: 21 Mar 2025 13:05

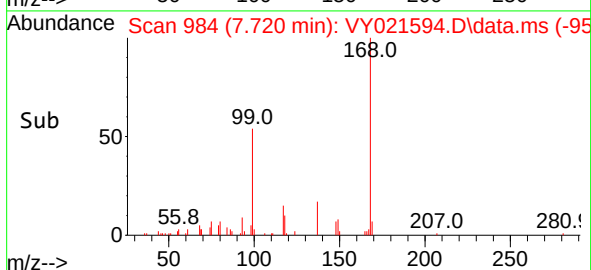
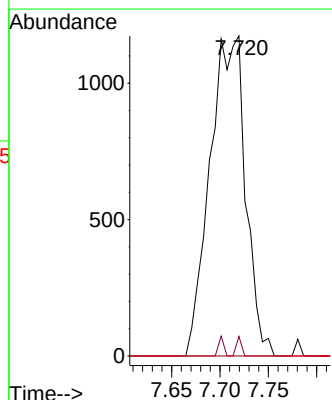
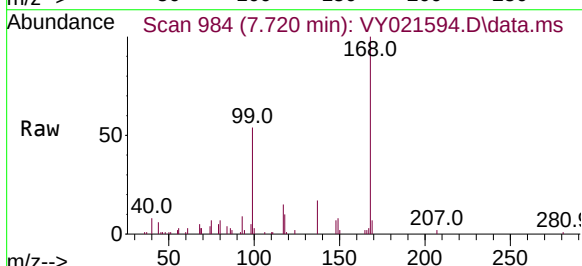
Tgt Ion: 117 Resp: 3004

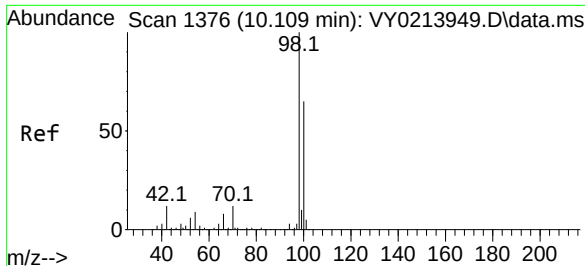
Ion Ratio Lower Upper

117 100

119 6.1 75.8 113.8#

121 0.0 23.9 35.9#

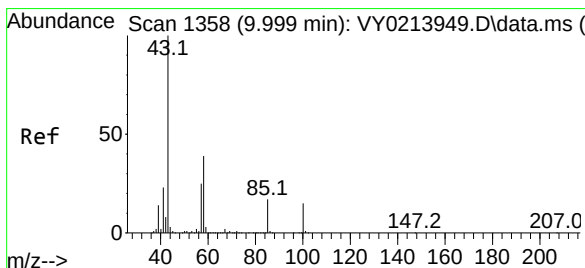
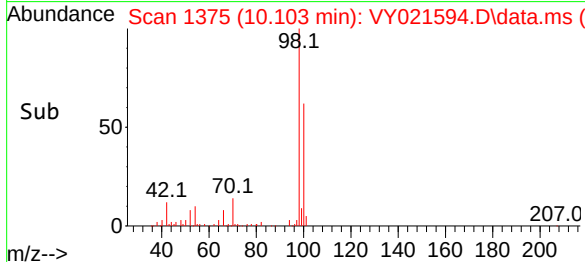
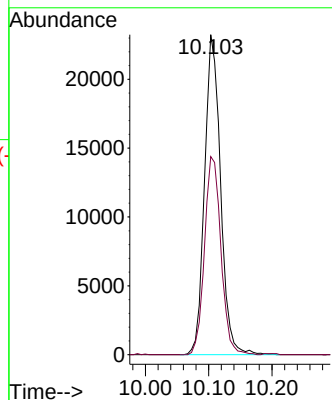
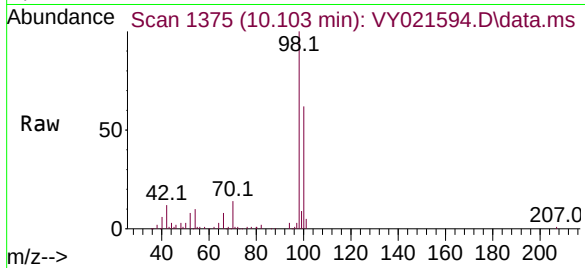




#50
Toluene-d8
Concen: 43.320 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY021594.D
Acq: 21 Mar 2025 13:05

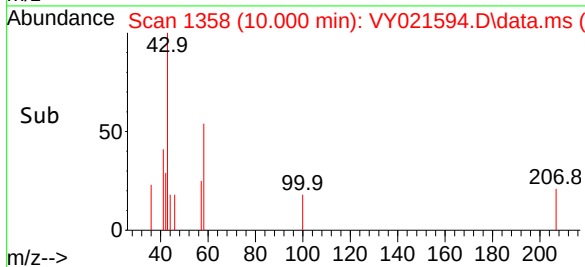
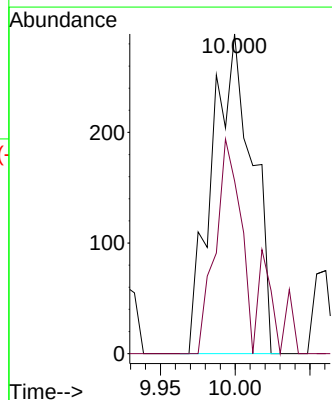
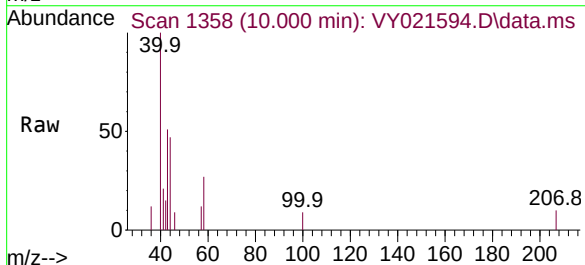
Instrument :
MSVOA_Y
ClientSampleId :
RBR200030

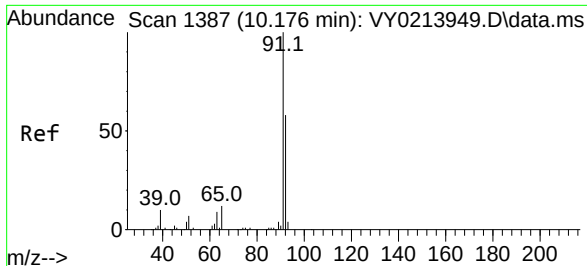
Tgt Ion: 98 Resp: 40934
Ion Ratio Lower Upper
98 100
100 63.5 52.1 78.1



#51
4-Methyl-2-Pentanone
Concen: 3.146 ug/l
RT: 10.000 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VY021594.D
Acq: 21 Mar 2025 13:05

Tgt Ion: 43 Resp: 544
Ion Ratio Lower Upper
43 100
58 41.7 31.4 47.2

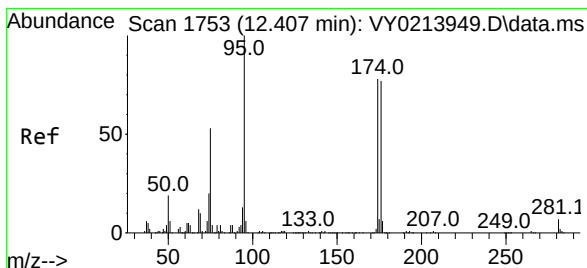
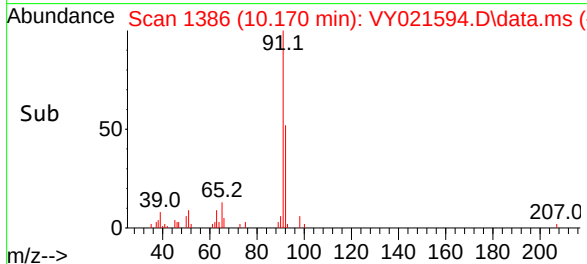
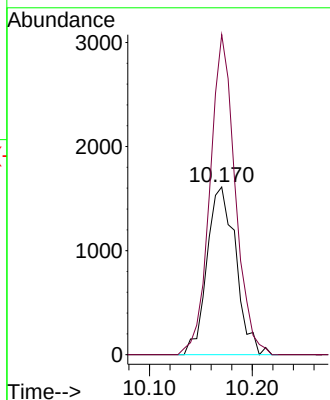
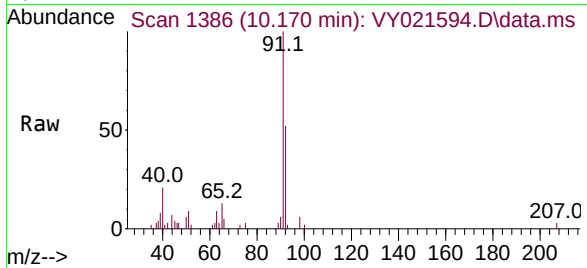




#52
Toluene
Concen: 4.323 ug/l
RT: 10.170 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY021594.D
Acq: 21 Mar 2025 13:05

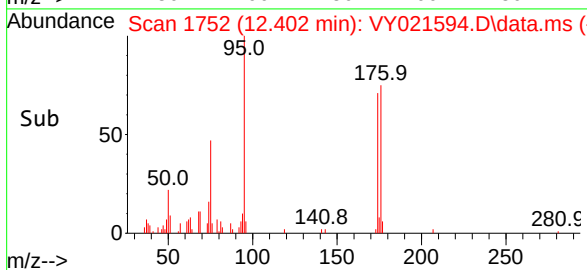
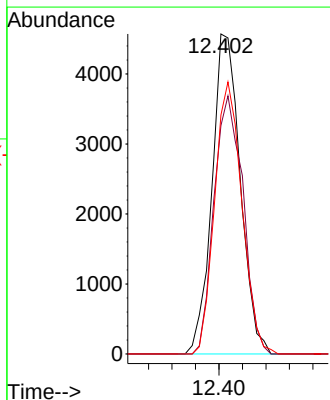
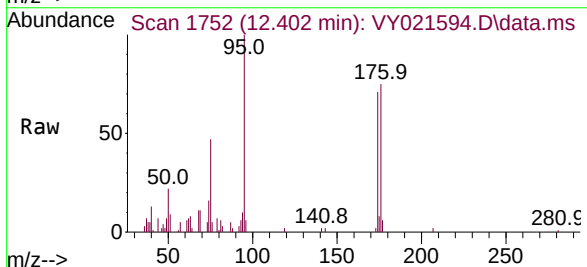
Instrument :
MSVOA_Y
ClientSampleId :
RBR200030

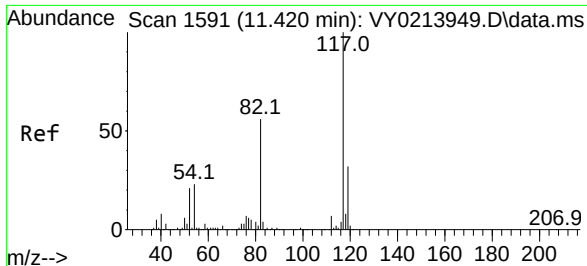
Tgt Ion: 92 Resp: 3136
Ion Ratio Lower Upper
92 100
91 167.6 138.2 207.2



#62
4-Bromofluorobenzene
Concen: 23.754 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY021594.D
Acq: 21 Mar 2025 13:05

Tgt Ion: 95 Resp: 7635
Ion Ratio Lower Upper
95 100
174 82.6 0.0 165.0
176 82.1 0.0 160.0

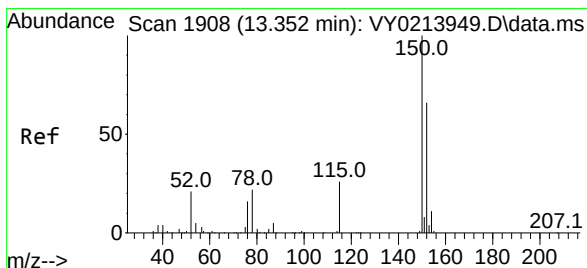
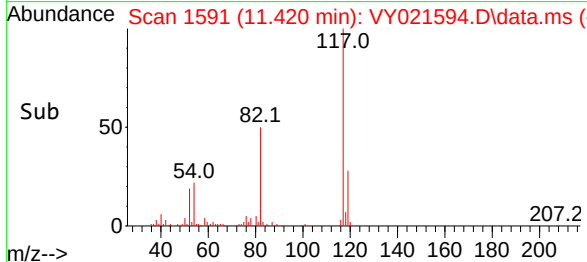
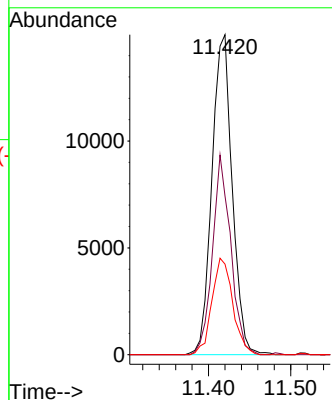
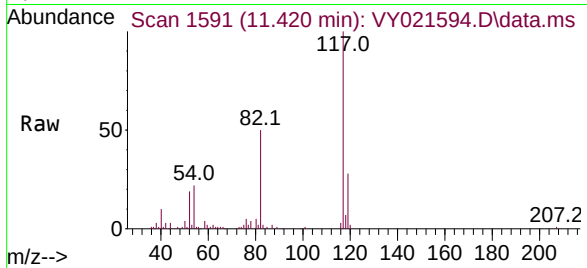




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY021594.D
Acq: 21 Mar 2025 13:05

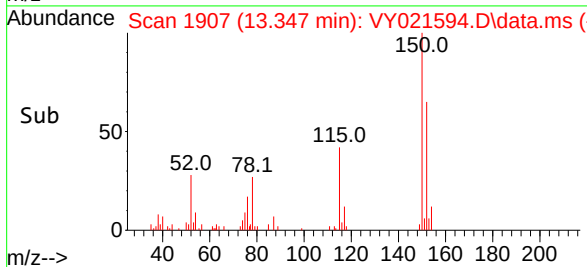
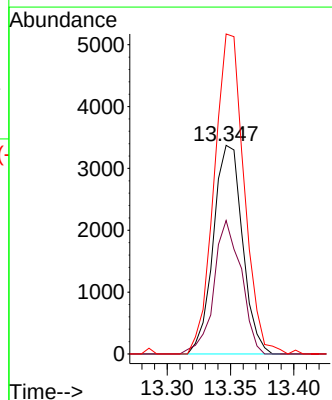
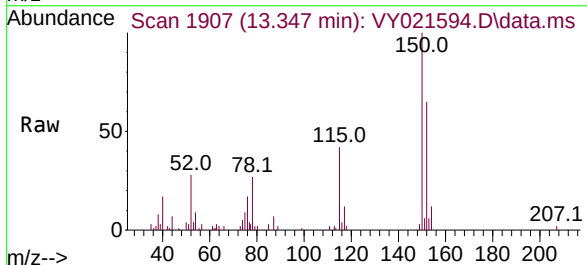
Instrument :
MSVOA_Y
ClientSampleId :
RBR200030

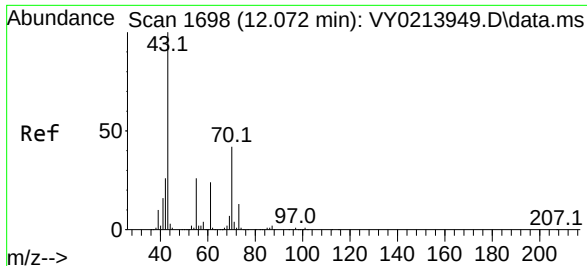
Tgt Ion:117	Resp:	25681
Ion	Ratio	Lower Upper
117	100	
82	49.6	44.6 67.0
119	28.3	25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. -0.006 min
Lab File: VY021594.D
Acq: 21 Mar 2025 13:05

Tgt Ion:152	Resp:	5401
Ion	Ratio	Lower Upper
152	100	
115	59.8	29.0 87.0
150	157.6	0.0 347.2

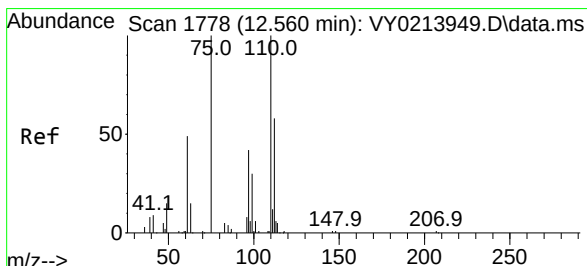
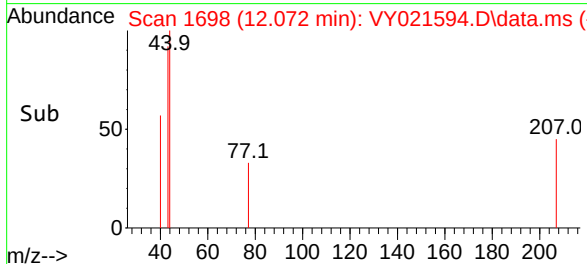
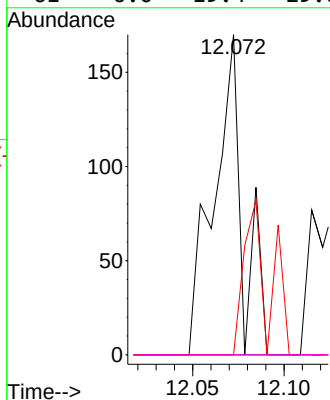
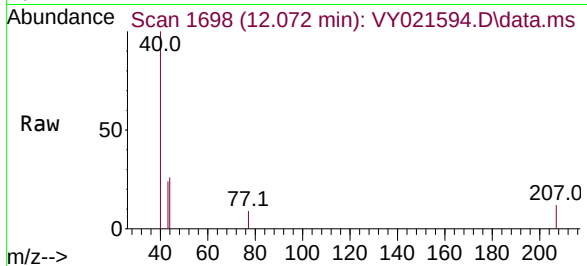




#74
N-amy1 acetate
Concen: 2.035 ug/l
RT: 12.072 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY021594.D
Acq: 21 Mar 2025 13:05

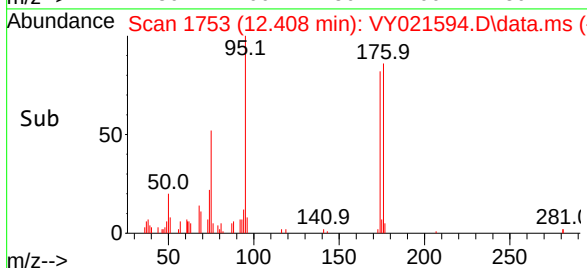
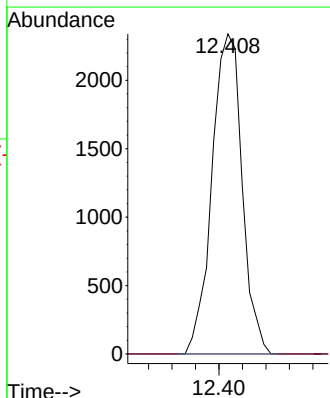
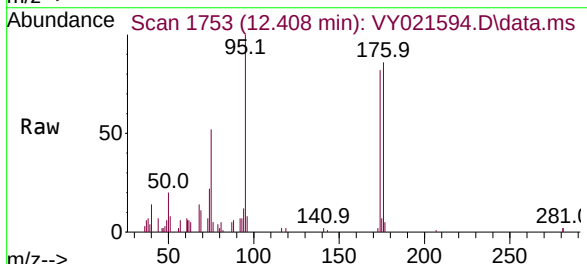
Instrument :
MSVOA_Y
ClientSampleId :
RBR200030

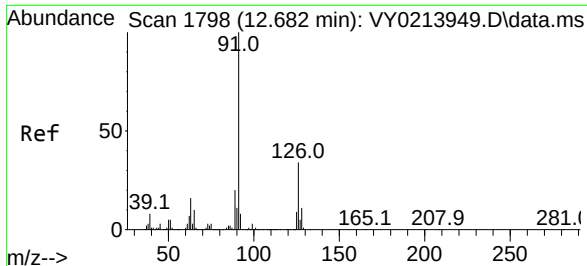
Tgt Ion:	43	Resp:	188
Ion	Ratio	Lower	Upper
43	100		
70	0.0	34.6	51.8#
55	40.4	21.1	31.7#
61	0.0	19.4	29.0#



#76
1,2,3-Trichloropropane
Concen: 76.582 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.152 min
Lab File: VY021594.D
Acq: 21 Mar 2025 13:05

Tgt Ion:	75	Resp:	4168
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#79

2-Chlorotoluene

Concen: 1.293 ug/l

RT: 12.773 min Scan# 1798

Delta R.T. 0.092 min

Lab File: VY021594.D

Acq: 21 Mar 2025 13:05

Instrument :

MSVOA_Y

ClientSampleId :

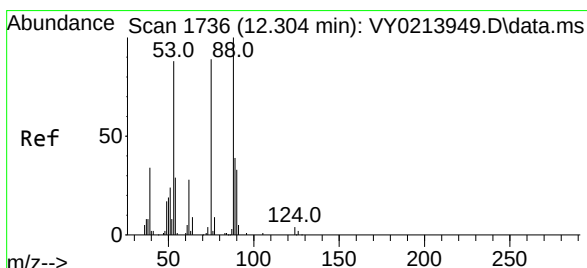
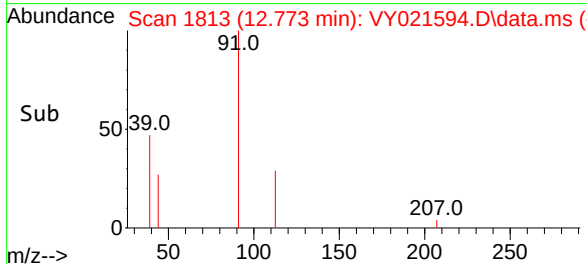
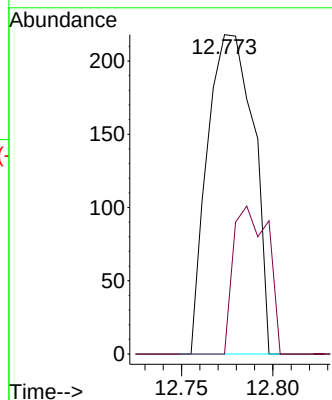
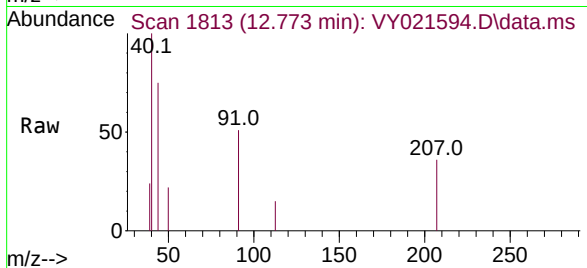
RBR200030

Tgt Ion: 91 Resp: 382

Ion Ratio Lower Upper

91 100

126 34.6 17.2 51.6



#81

trans-1,4-Dichloro-2-butene

Concen: 174.096 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. 0.104 min

Lab File: VY021594.D

Acq: 21 Mar 2025 13:05

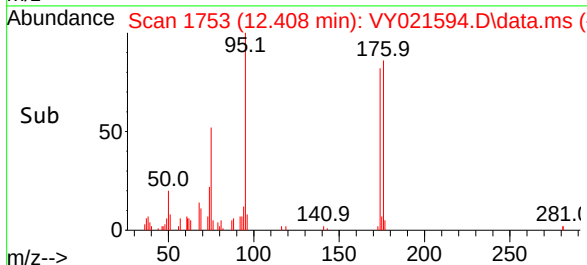
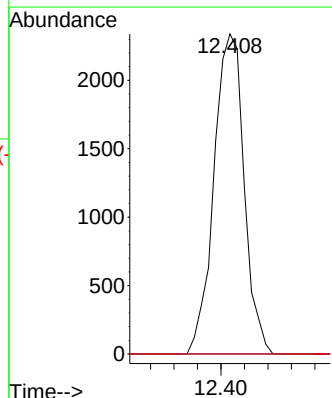
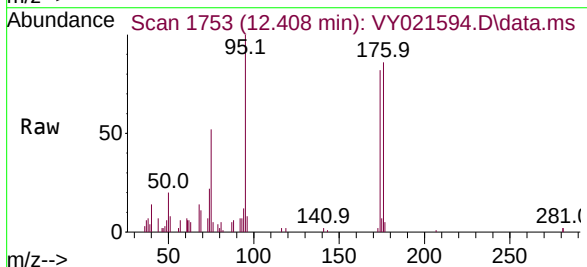
Tgt Ion: 75 Resp: 4168

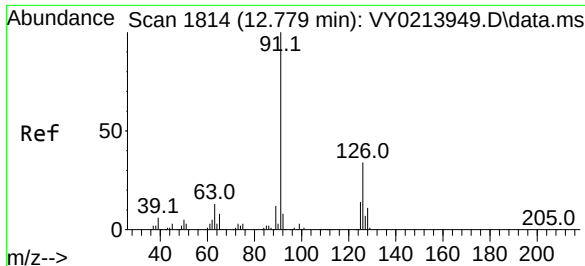
Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.4#

89 0.0 36.9 55.3#

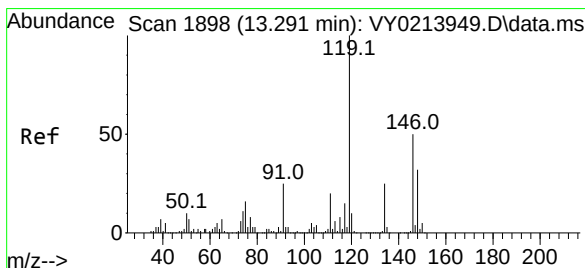
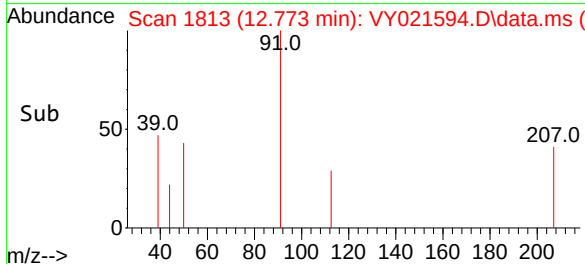
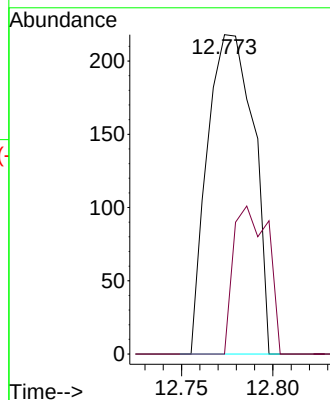
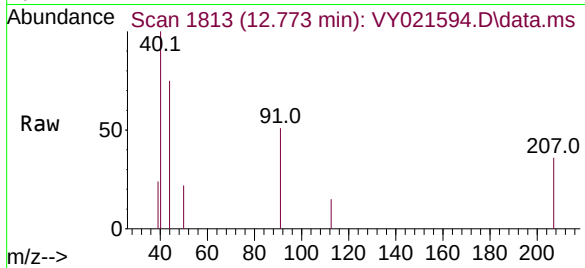




#82
4-Chlorotoluene
Concen: 1.249 ug/l
RT: 12.773 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY021594.D
Acq: 21 Mar 2025 13:05

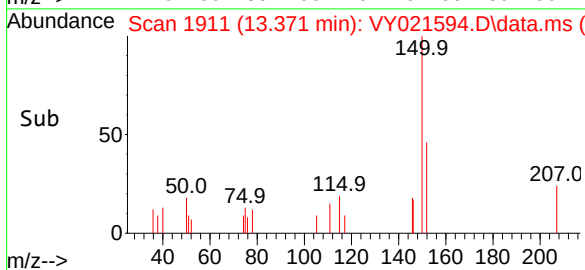
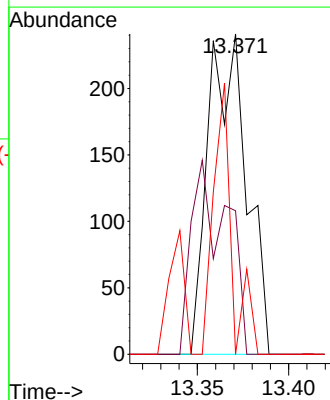
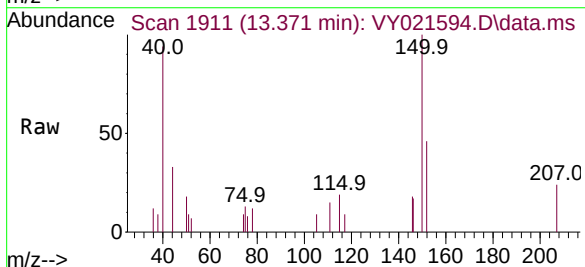
Instrument :
MSVOA_Y
ClientSampleId :
RBR200030

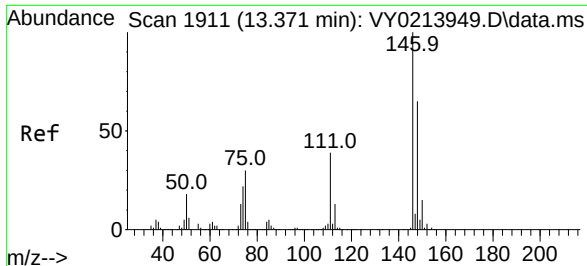
Tgt Ion: 91 Resp: 382
Ion Ratio Lower Upper
91 100
126 34.6 17.0 51.0



#87
1,3-Dichlorobenzene
Concen: 1.777 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.080 min
Lab File: VY021594.D
Acq: 21 Mar 2025 13:05

Tgt Ion: 146 Resp: 352
Ion Ratio Lower Upper
146 100
111 56.0 20.0 60.0
148 40.6 31.8 95.3





#88

1,4-Dichlorobenzene

Concen: 1.817 ug/l

RT: 13.371 min Scan# 1911

Delta R.T. 0.000 min

Lab File: VY021594.D

Acq: 21 Mar 2025 13:05

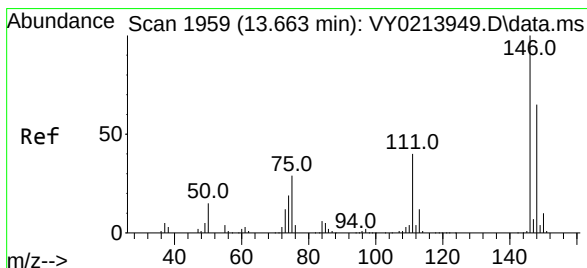
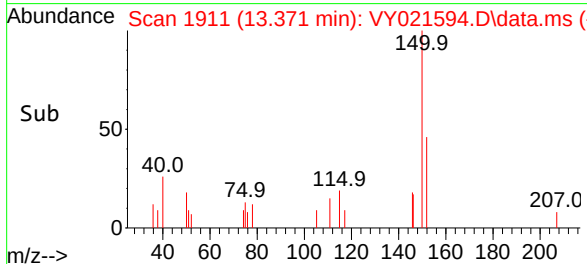
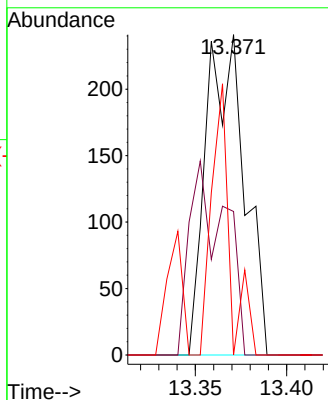
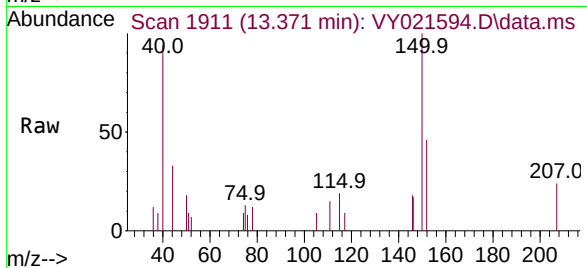
Instrument :

MSVOA_Y

ClientSampleId :

RBR200030

Tgt Ion:146	Resp:	352
Ion Ratio	Lower	Upper
146	100	
111	56.0	19.6 58.8
148	40.6	32.3 96.8



#91

1,2-Dichlorobenzene

Concen: 1.790 ug/l

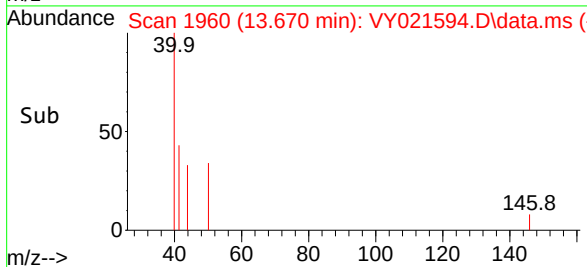
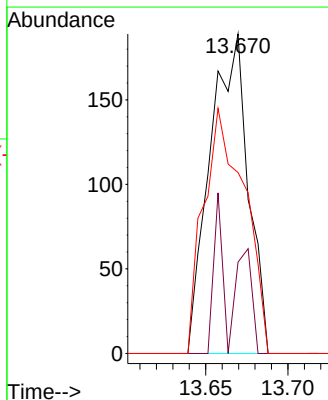
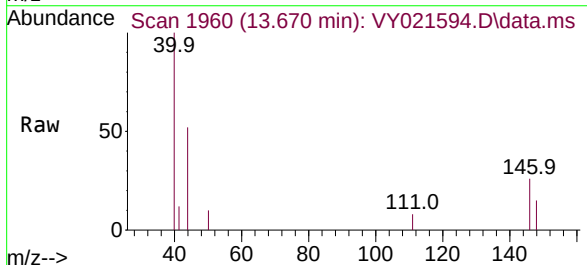
RT: 13.670 min Scan# 1960

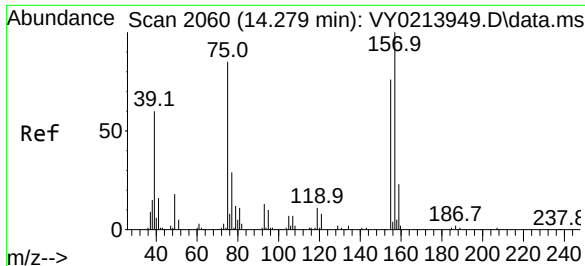
Delta R.T. 0.007 min

Lab File: VY021594.D

Acq: 21 Mar 2025 13:05

Tgt Ion:146	Resp:	304
Ion Ratio	Lower	Upper
146	100	
111	11.5	20.7 62.1#
148	82.6	32.1 96.5

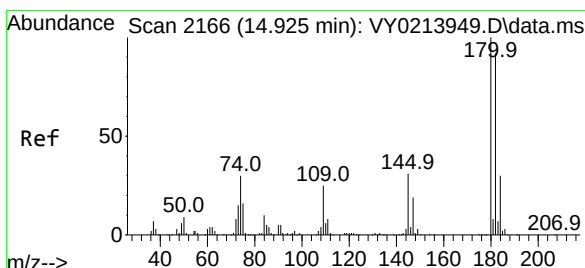
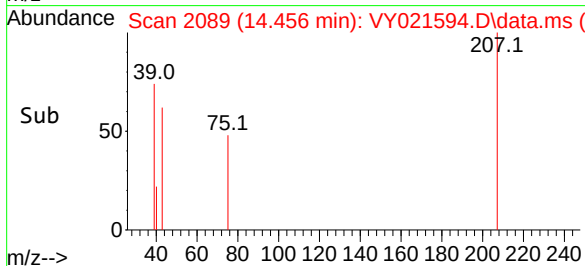
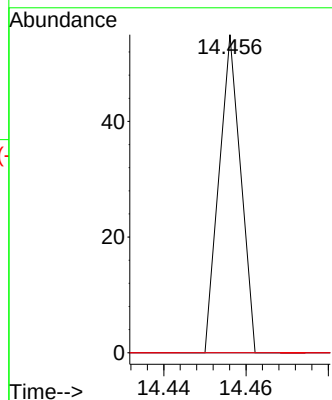
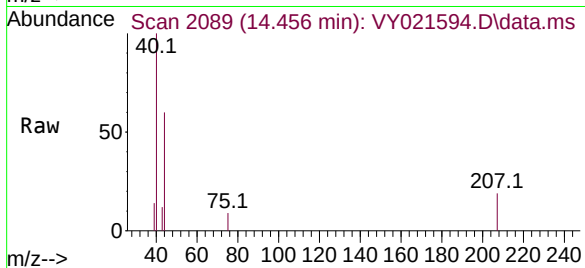




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.778 ug/l
 RT: 14.456 min Scan# 2060
 Delta R.T. 0.177 min
 Lab File: VY021594.D
 Acq: 21 Mar 2025 13:05

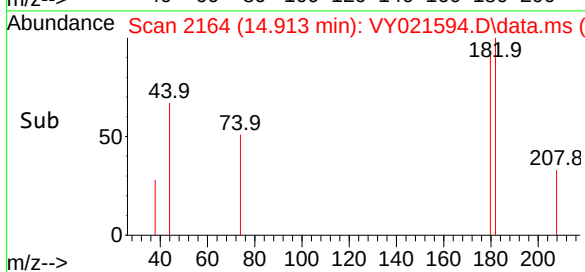
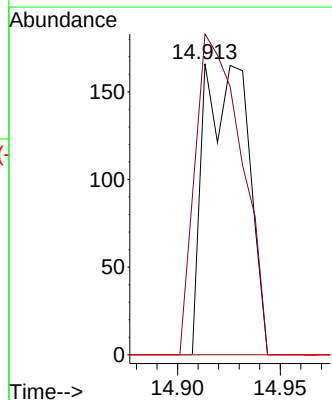
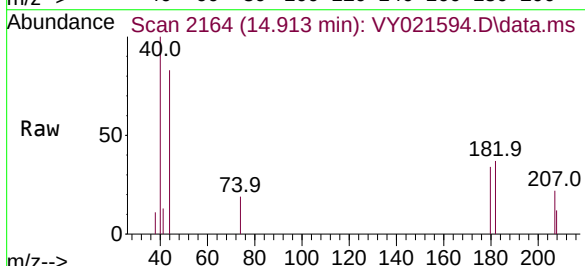
Instrument :
 MSVOA_Y
 ClientSampleId :
 RBR200030

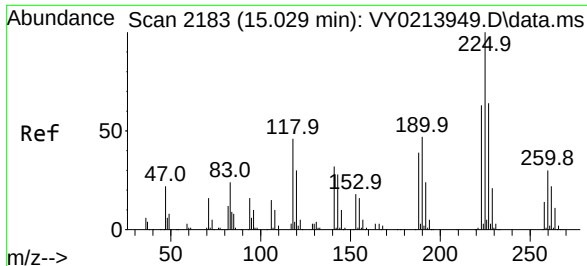
Tgt Ion: 75 Resp: 20
 Ion Ratio Lower Upper
 75 100
 155 0.0 43.5 130.5#
 157 0.0 54.4 163.2#



#93
 1,2,4-Trichlorobenzene
 Concen: 2.717 ug/l
 RT: 14.913 min Scan# 2164
 Delta R.T. -0.012 min
 Lab File: VY021594.D
 Acq: 21 Mar 2025 13:05

Tgt Ion: 180 Resp: 252
 Ion Ratio Lower Upper
 180 100
 182 113.9 46.7 140.0
 145 0.0 15.6 46.8#

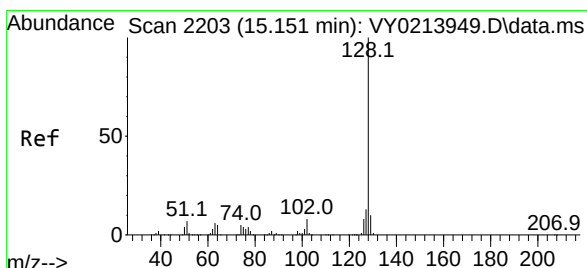
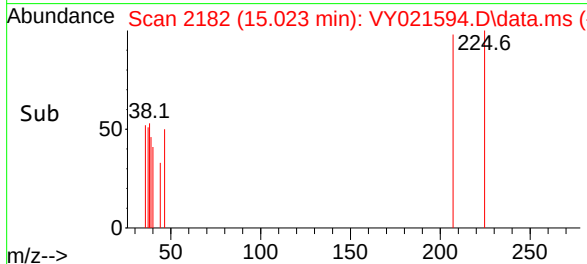
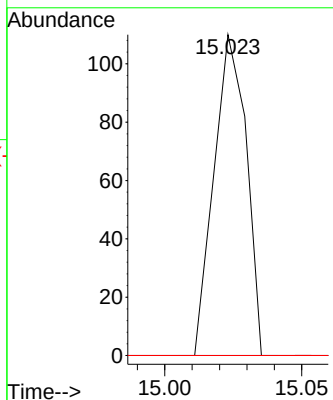
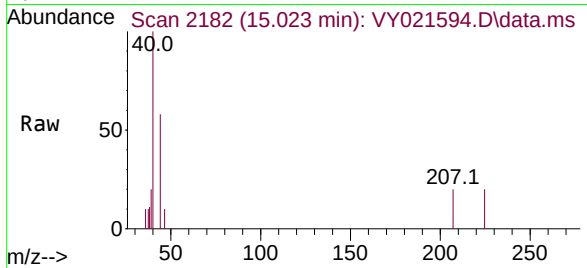




#94
Hexachlorobutadiene
Concen: 1.548 ug/l
RT: 15.023 min Scan# 2183
Delta R.T. -0.006 min
Lab File: VY021594.D
Acq: 21 Mar 2025 13:05

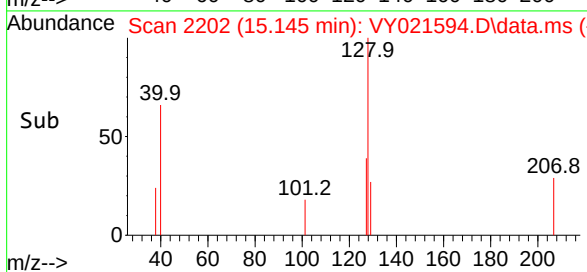
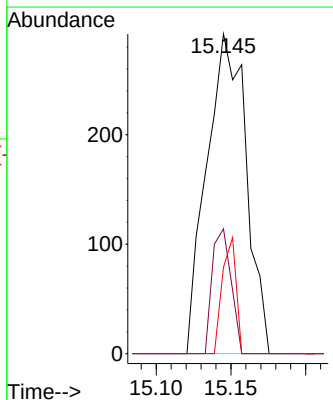
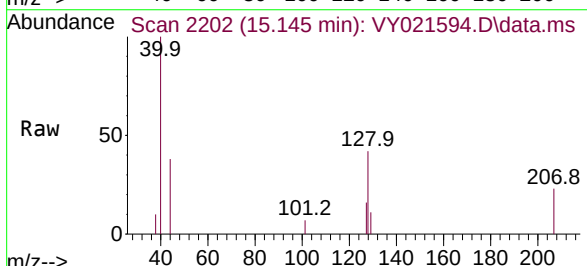
Instrument :
MSVOA_Y
ClientSampleId :
RBR200030

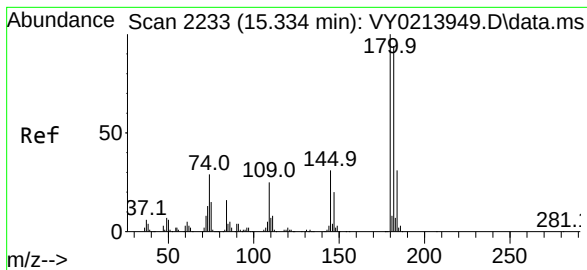
Tgt Ion:225 Resp: 90
Ion Ratio Lower Upper
225 100
223 0.0 31.4 94.2#
227 0.0 31.8 95.4#



#95
Naphthalene
Concen: 5.081 ug/l
RT: 15.145 min Scan# 2202
Delta R.T. -0.006 min
Lab File: VY021594.D
Acq: 21 Mar 2025 13:05

Tgt Ion:128 Resp: 535
Ion Ratio Lower Upper
128 100
127 18.7 10.6 15.8#
129 12.7 8.6 13.0





#96
 1,2,3-Trichlorobenzene
 Concen: 3.384 ug/l
 RT: 15.328 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VY021594.D
 Acq: 21 Mar 2025 13:05

Instrument :
 MSVOA_Y
 ClientSampleId :
 RBR200030

Tgt Ion	Ratio	Lower	Upper
180	100		
182	81.4	47.2	141.6
145	41.7	16.4	49.1

