

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032025\
 Data File : VY021579.D
 Acq On : 20 Mar 2025 14:01
 Operator : SY/MD
 Sample : Q1606-03
 Misc : 5.01g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 RBR251346

Quant Time: Mar 21 01:33:22 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)

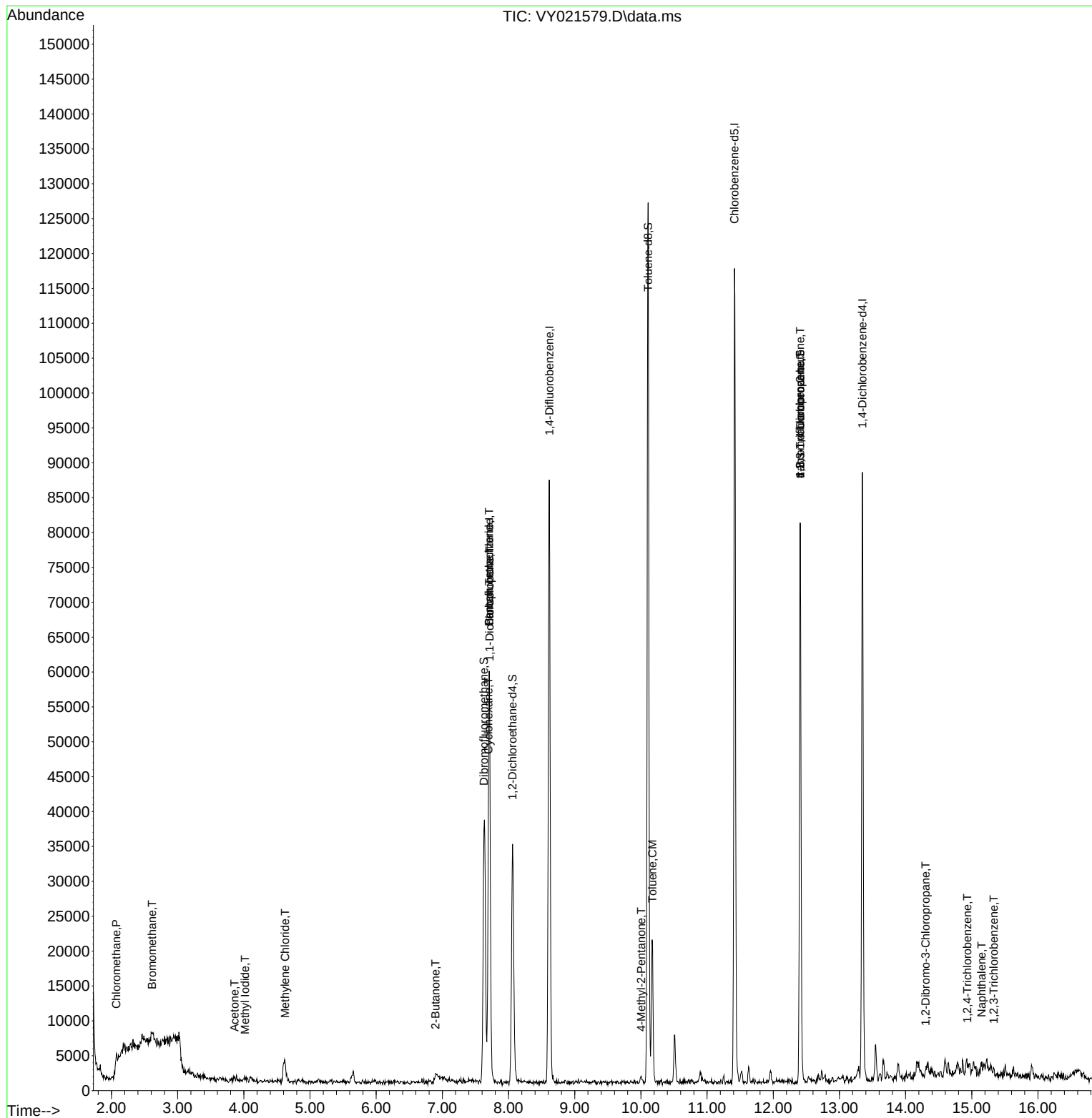
Internal Standards						
1) Pentafluorobenzene	7.707	168	42401	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	70246	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	61541	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	20880	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	25536	56.981	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	113.960%
35) Dibromofluoromethane	7.628	113	27324	59.177	ug/l	-0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	=	118.360%
50) Toluene-d8	10.109	98	82901	47.418	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	94.840%
62) 4-Bromofluorobenzene	12.408	95	23268	39.126	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	78.260%
Target Compounds						
					Qvalue	
3) Chloromethane	2.074	50	764	1.393	ug/l #	79
5) Bromomethane	2.611	94	1029	2.375	ug/l #	76
10) Methyl Iodide	4.019	142	970	1.997	ug/l #	40
11) Tert butyl alcohol	4.872	59	59	Below Cal	#	72
16) Acetone	3.860	43	453	4.634	ug/l	99
20) Methylene Chloride	4.622	84	1929	3.760	ug/l	89
25) 2-Butanone	6.896	43	720	5.325	ug/l	92
31) Cyclohexane	7.695	56	1137	1.355	ug/l #	37
36) 1,1-Dichloropropene	7.713	75	3978	5.504	ug/l #	48
38) Carbon Tetrachloride	7.707	117	4684	5.635	ug/l #	19
51) 4-Methyl-2-Pentanone	10.006	43	946	2.957	ug/l #	82
52) Toluene	10.176	92	8115	6.046	ug/l	97
76) 1,2,3-Trichloropropane	12.408	75	12222	58.088	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.408	75	12222	132.052	ug/l #	10
92) 1,2-Dibromo-3-Chloropr...	14.304	75	64	1.472	ug/l #	1
93) 1,2,4-Trichlorobenzene	14.932	180	446	1.244	ug/l	87
95) Naphthalene	15.151	128	1458	4.015	ug/l #	78
96) 1,2,3-Trichlorobenzene	15.334	180	336	1.114	ug/l #	77

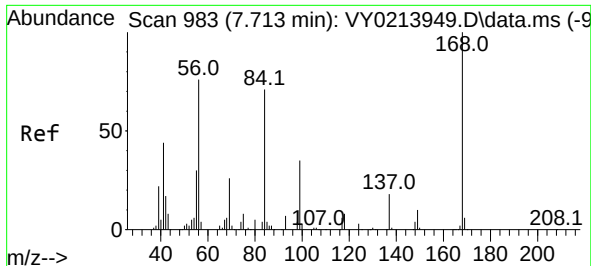
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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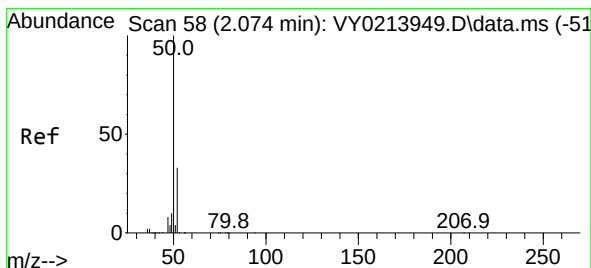
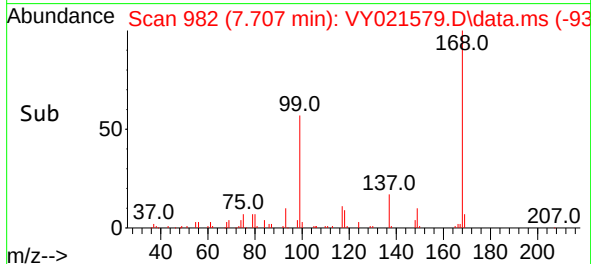
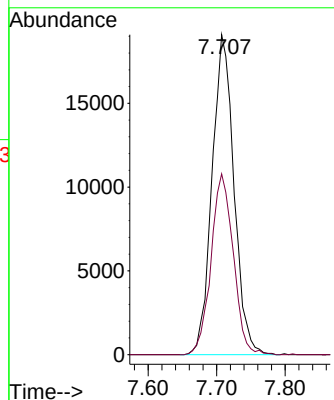
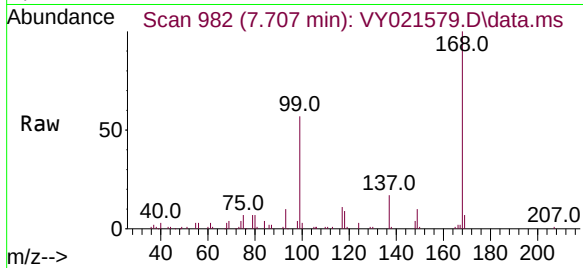




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY021579.D
Acq: 20 Mar 2025 14:01

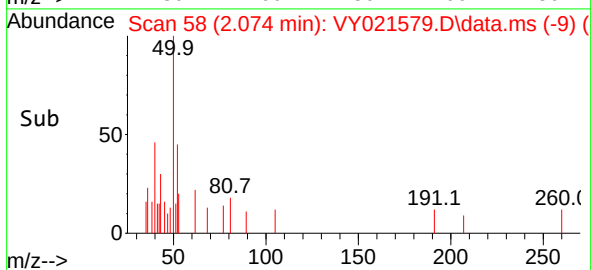
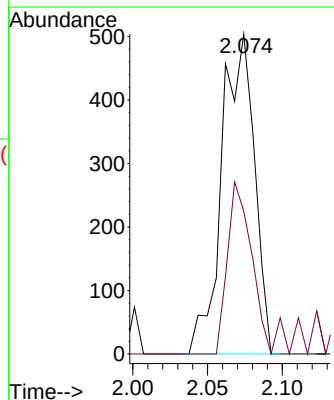
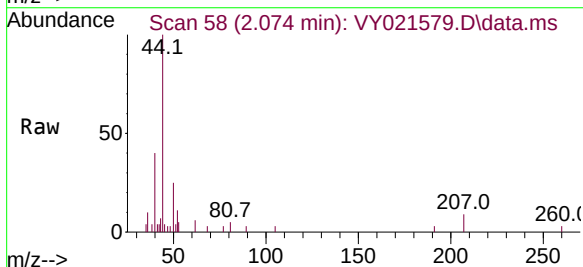
Instrument :
MSVOA_Y
ClientSampleId :
RBR251346

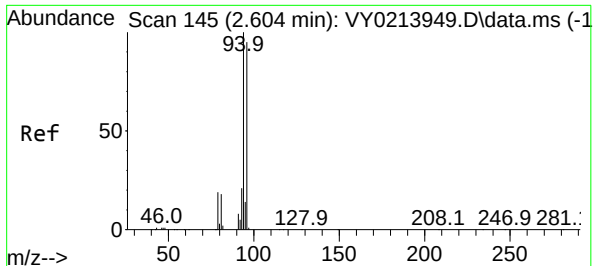
Tgt Ion:168 Resp: 42401
Ion Ratio Lower Upper
168 100
99 56.5 46.0 69.0



#3
Chloromethane
Concen: 1.393 ug/l
RT: 2.074 min Scan# 58
Delta R.T. 0.000 min
Lab File: VY021579.D
Acq: 20 Mar 2025 14:01

Tgt Ion: 50 Resp: 764
Ion Ratio Lower Upper
50 100
52 44.6 26.2 39.2#

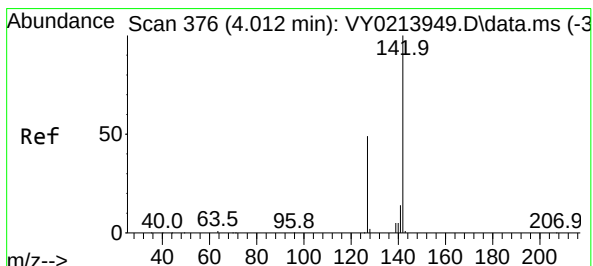
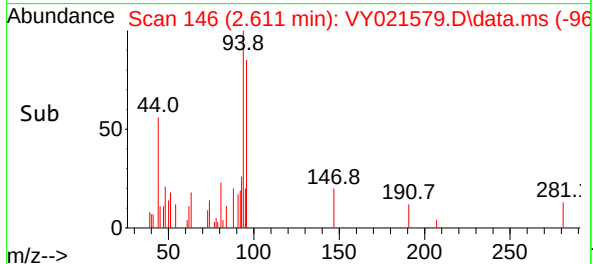
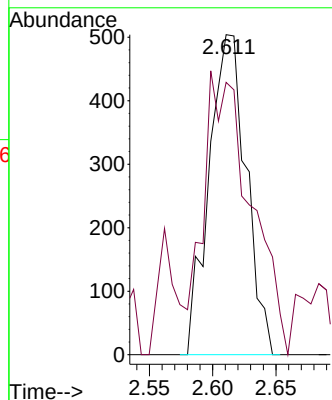
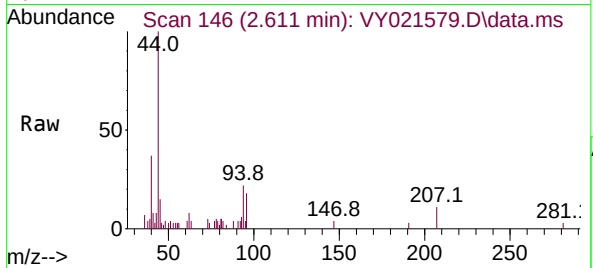




#5
Bromomethane
Concen: 2.375 ug/l
RT: 2.611 min Scan# 145
Delta R.T. 0.006 min
Lab File: VY021579.D
Acq: 20 Mar 2025 14:01

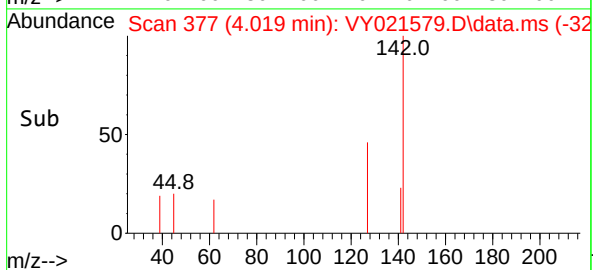
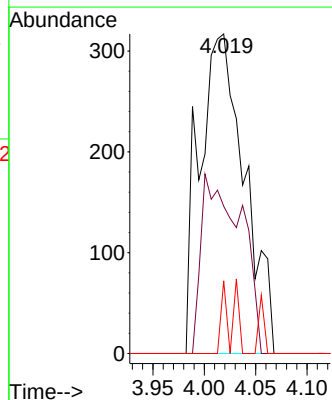
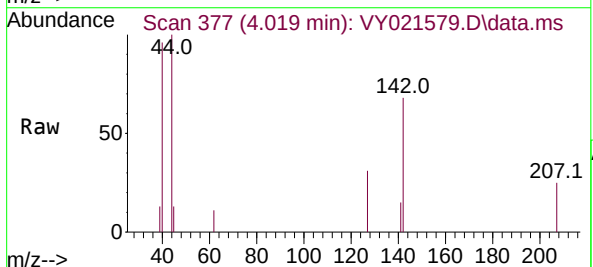
Instrument :
MSVOA_Y
ClientSampleId :
RBR251346

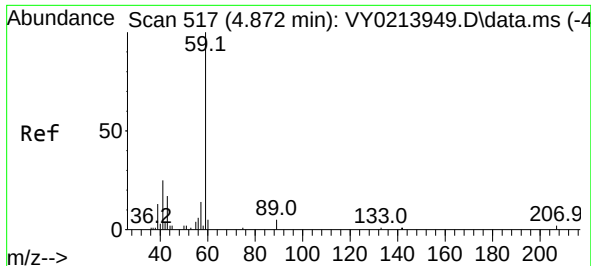
Tgt Ion: 94 Resp: 1029
Ion Ratio Lower Upper
94 100
96 72.4 76.3 114.5#



#10
Methyl Iodide
Concen: 1.997 ug/l
RT: 4.019 min Scan# 377
Delta R.T. 0.006 min
Lab File: VY021579.D
Acq: 20 Mar 2025 14:01

Tgt Ion:142 Resp: 970
Ion Ratio Lower Upper
142 100
127 0.0 39.1 58.7#
141 5.5 11.8 17.6#

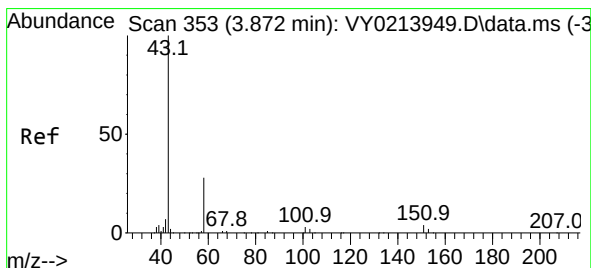
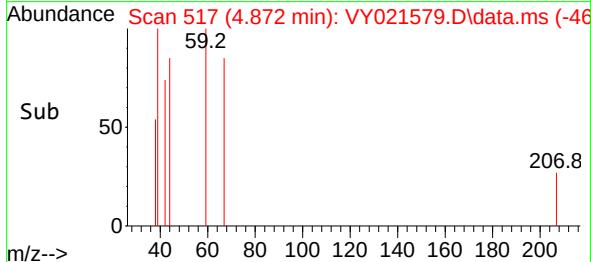
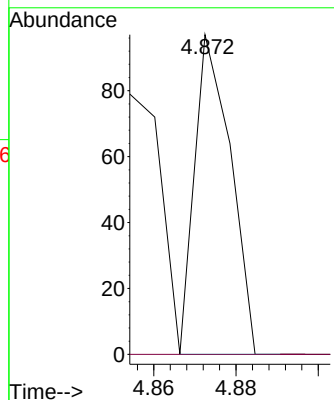
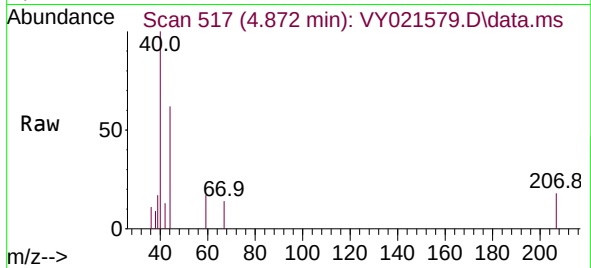




#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.872 min Scan# 517
Delta R.T. 0.000 min
Lab File: VY021579.D
Acq: 20 Mar 2025 14:01

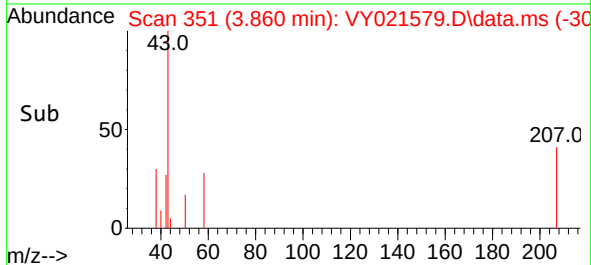
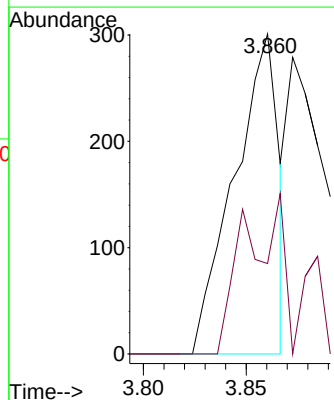
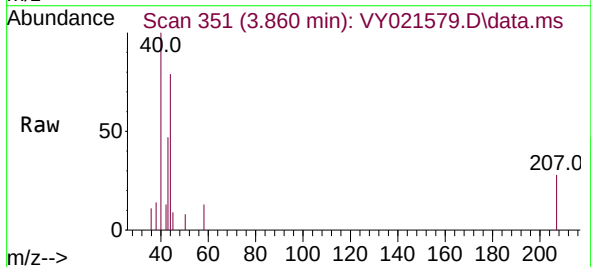
Instrument :
MSVOA_Y
ClientSampleId :
RBR251346

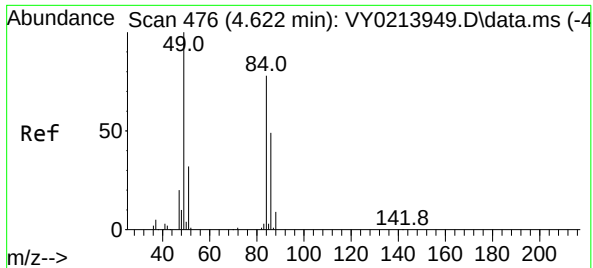
Tgt Ion: 59 Resp: 59
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#16
Acetone
Concen: 4.634 ug/l
RT: 3.860 min Scan# 351
Delta R.T. -0.012 min
Lab File: VY021579.D
Acq: 20 Mar 2025 14:01

Tgt Ion: 43 Resp: 453
Ion Ratio Lower Upper
43 100
58 28.2 22.1 33.1

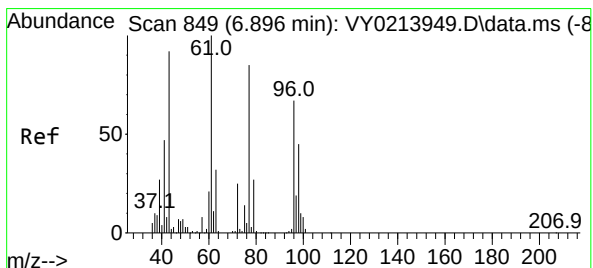
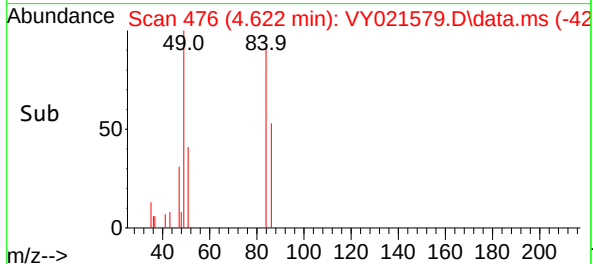
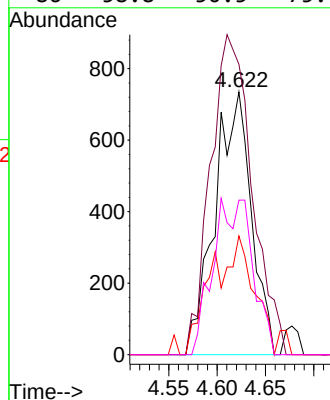
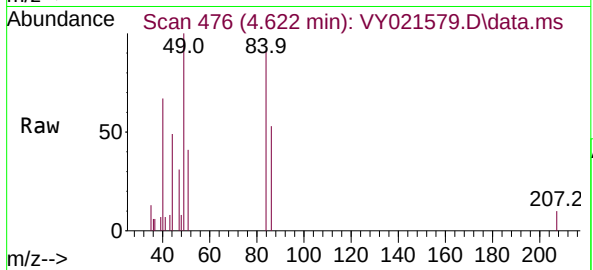




#20
Methylene Chloride
Concen: 3.760 ug/l
RT: 4.622 min Scan# 41
Delta R.T. 0.000 min
Lab File: VY021579.D
Acq: 20 Mar 2025 14:01

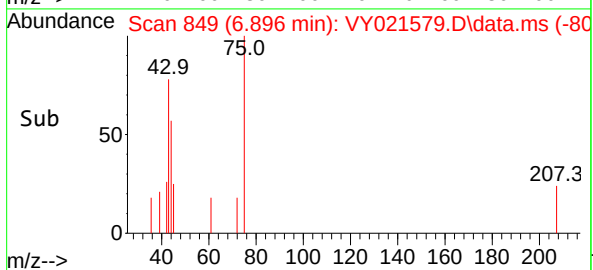
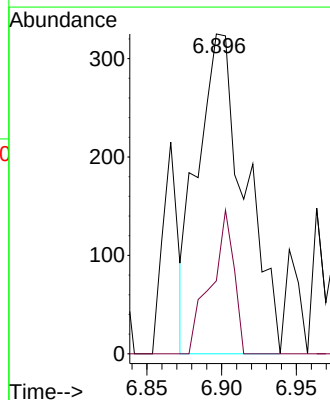
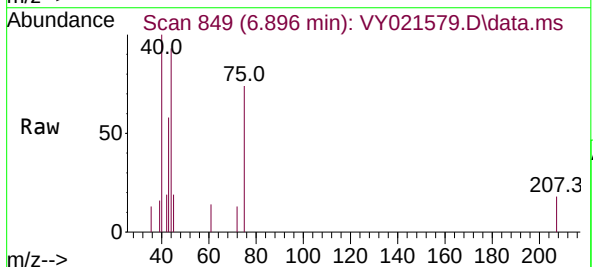
Instrument :
MSVOA_Y
ClientSampleId :
RBR251346

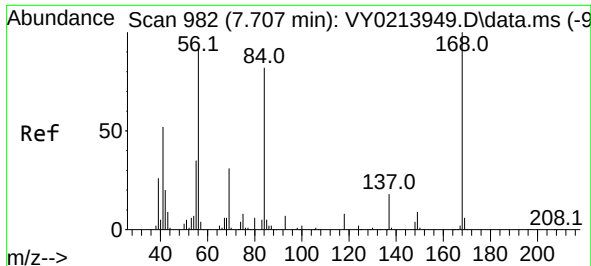
Tgt Ion:	84	Resp:	1929
Ion	Ratio	Lower	Upper
84	100		
49	110.5	102.0	153.0
51	45.2	33.0	49.6
86	58.8	50.5	75.7



#25
2-Butanone
Concen: 5.325 ug/l
RT: 6.896 min Scan# 849
Delta R.T. 0.000 min
Lab File: VY021579.D
Acq: 20 Mar 2025 14:01

Tgt Ion:	43	Resp:	720
Ion	Ratio	Lower	Upper
43	100		
72	22.8	21.4	32.0

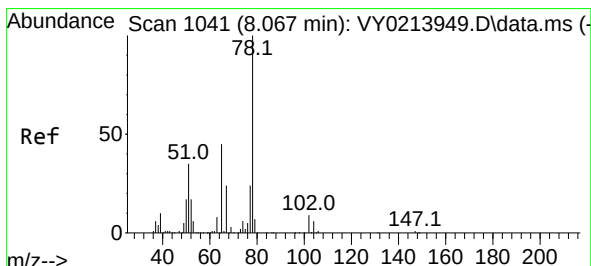
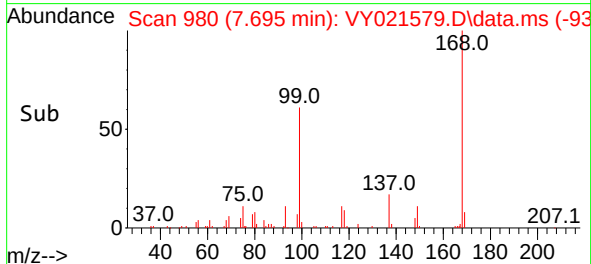
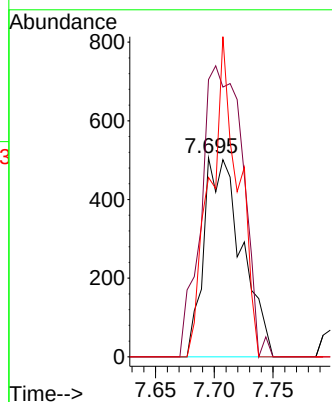
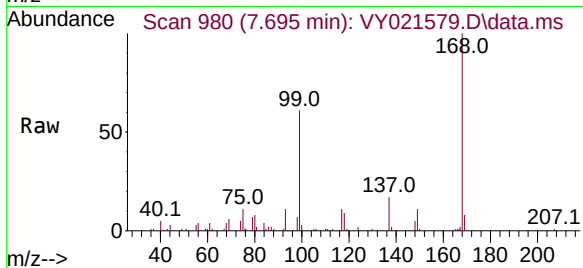




#31
Cyclohexane
Concen: 1.355 ug/l
RT: 7.695 min Scan# 91
Delta R.T. -0.012 min
Lab File: VY021579.D
Acq: 20 Mar 2025 14:01

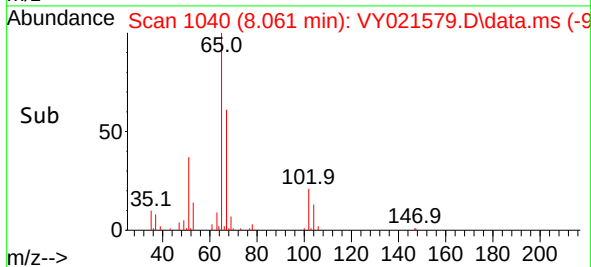
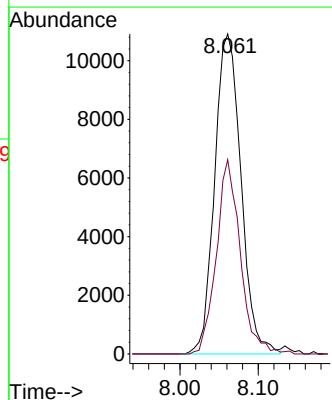
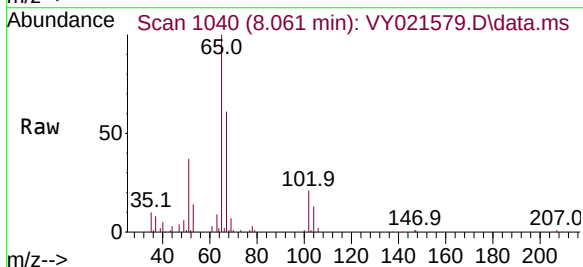
Instrument :
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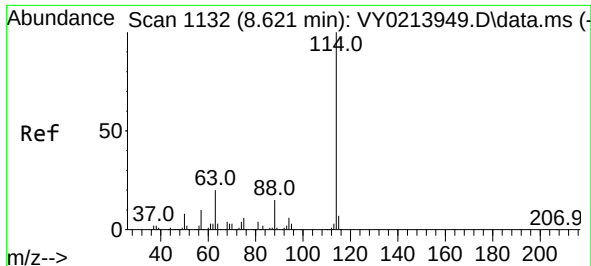
Tgt Ion: 56 Resp: 1137
Ion Ratio Lower Upper
56 100
69 139.3 27.0 40.4#
84 104.7 71.1 106.7



#33
1,2-Dichloroethane-d4
Concen: 56.981 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY021579.D
Acq: 20 Mar 2025 14:01

Tgt Ion: 65 Resp: 25536
Ion Ratio Lower Upper
65 100
67 55.2 0.0 102.8

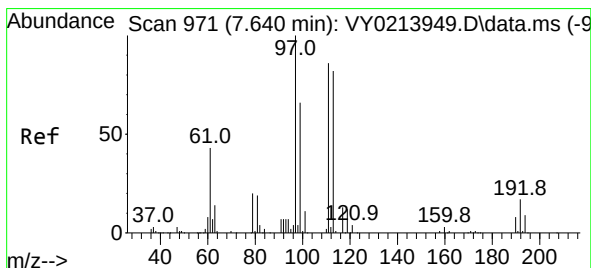
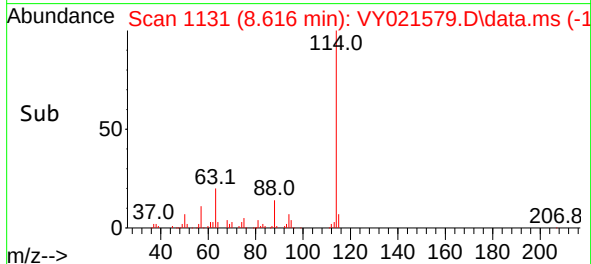
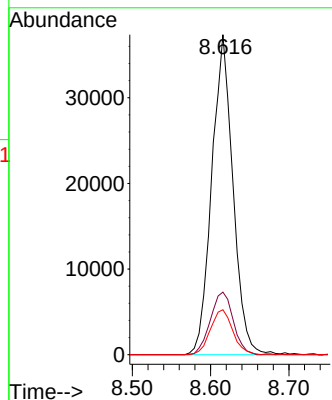
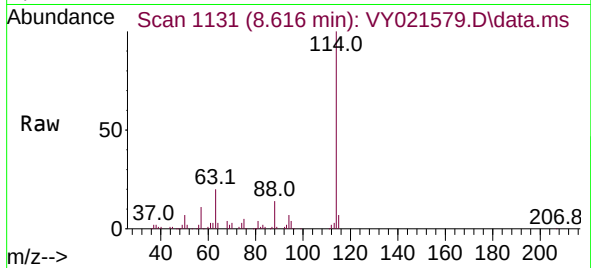




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1132
Delta R.T. -0.006 min
Lab File: VY021579.D
Acq: 20 Mar 2025 14:01

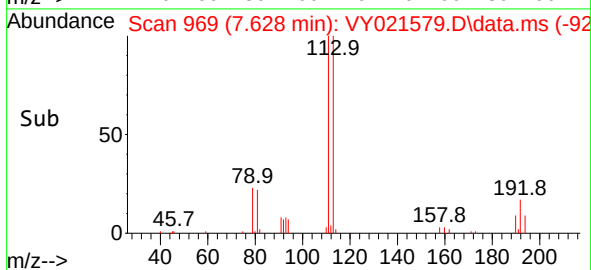
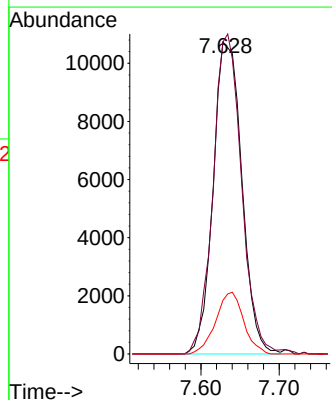
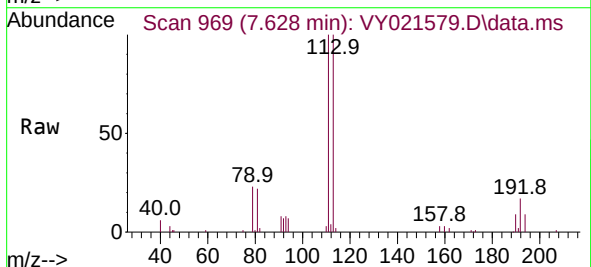
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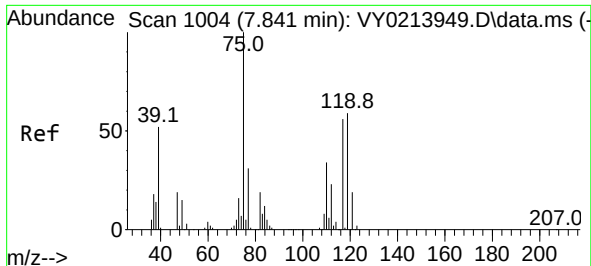
Tgt Ion:	114	Resp:	70246
Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	40.8
88	14.1	0.0	30.8



#35
Dibromofluoromethane
Concen: 59.177 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.012 min
Lab File: VY021579.D
Acq: 20 Mar 2025 14:01

Tgt Ion:	113	Resp:	27324
Ion	Ratio	Lower	Upper
113	100		
111	101.8	82.0	123.0
192	19.3	15.9	23.9

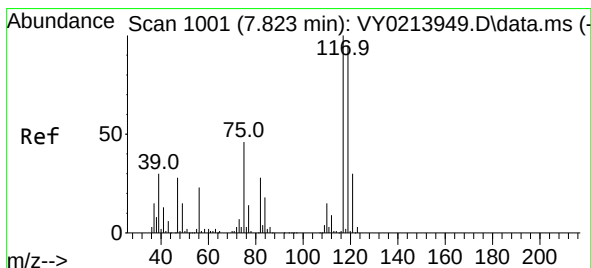
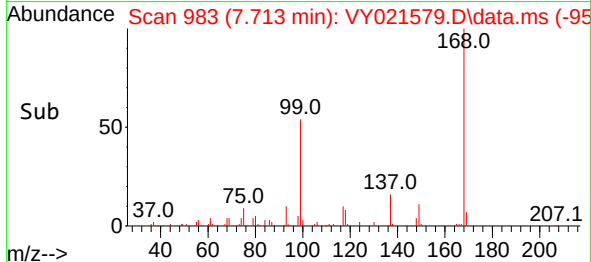
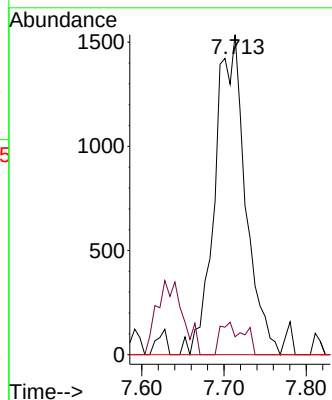
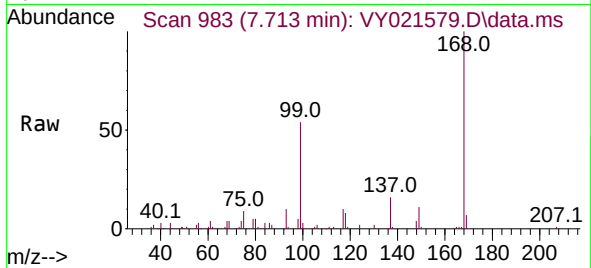




#36
 1,1-Dichloropropene
 Concen: 5.504 ug/l
 RT: 7.713 min Scan# 91
 Delta R.T. -0.128 min
 Lab File: VY021579.D
 Acq: 20 Mar 2025 14:01

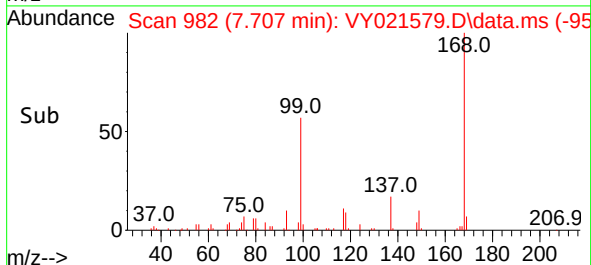
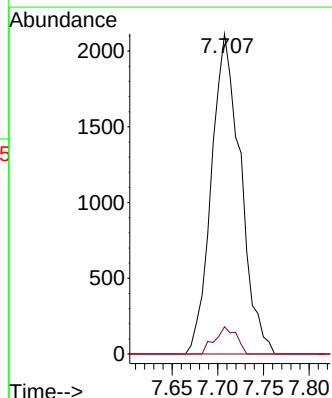
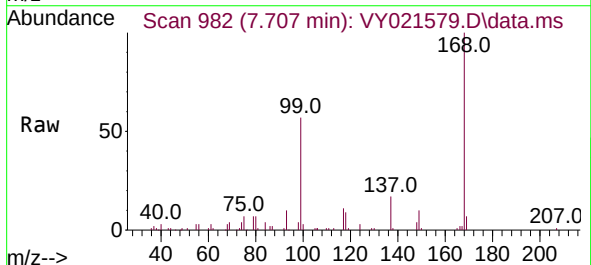
Instrument :
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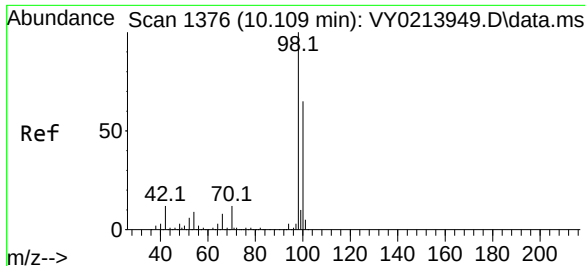
Tgt Ion: 75 Resp: 3978
 Ion Ratio Lower Upper
 75 100
 110 7.7 17.3 51.7#
 77 0.0 25.4 38.2#



#38
 Carbon Tetrachloride
 Concen: 5.635 ug/l
 RT: 7.707 min Scan# 982
 Delta R.T. -0.115 min
 Lab File: VY021579.D
 Acq: 20 Mar 2025 14:01

Tgt Ion: 117 Resp: 4684
 Ion Ratio Lower Upper
 117 100
 119 8.5 75.8 113.8#
 121 0.0 23.9 35.9#





#50

Toluene-d8

Concen: 47.418 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.000 min

Lab File: VY021579.D

Acq: 20 Mar 2025 14:01

Instrument :

MSVOA_Y

ClientSampleId :

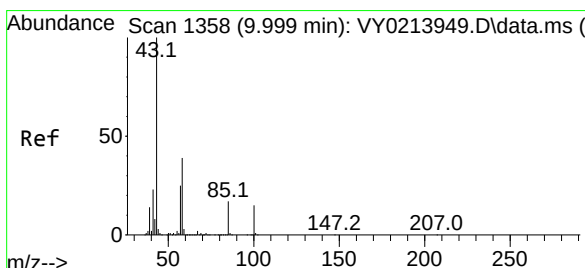
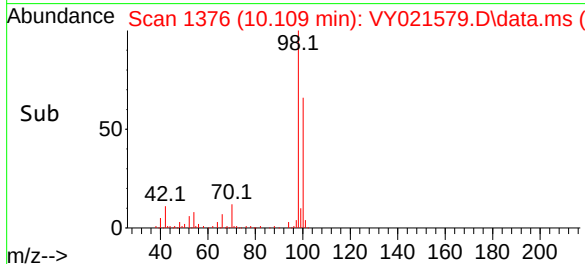
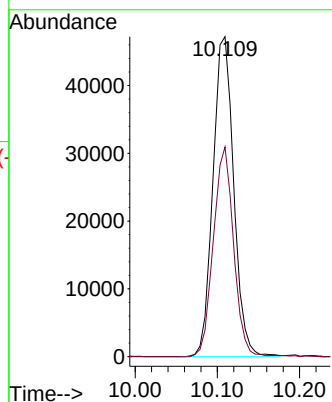
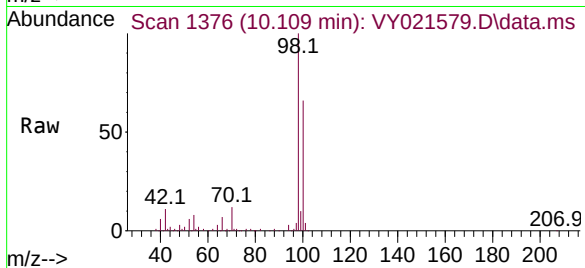
RBR251346

Tgt Ion: 98 Resp: 82901

Ion Ratio Lower Upper

98 100

100 63.6 52.1 78.1



#51

4-Methyl-2-Pentanone

Concen: 2.957 ug/l

RT: 10.006 min Scan# 1359

Delta R.T. 0.006 min

Lab File: VY021579.D

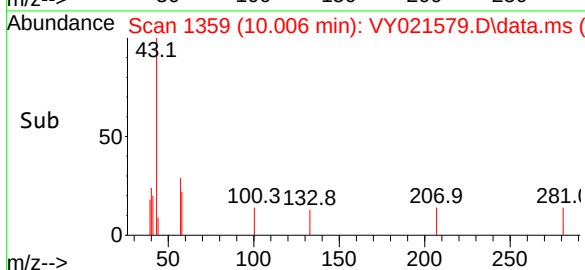
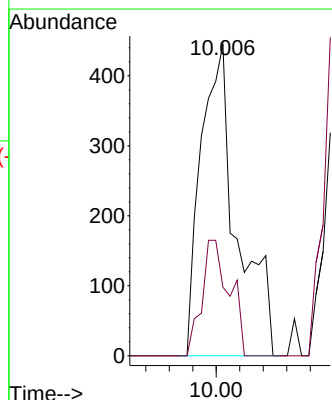
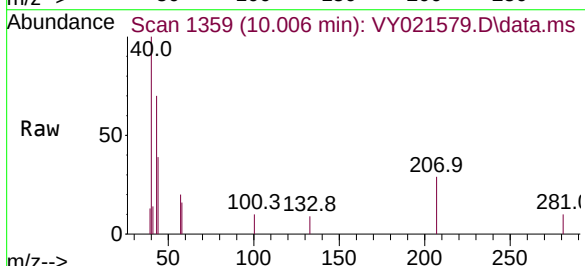
Acq: 20 Mar 2025 14:01

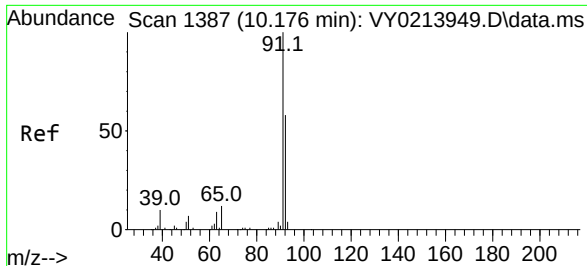
Tgt Ion: 43 Resp: 946

Ion Ratio Lower Upper

43 100

58 28.4 31.4 47.2#

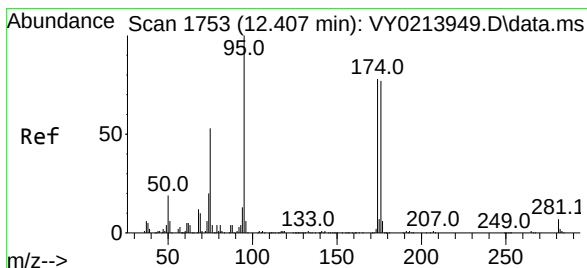
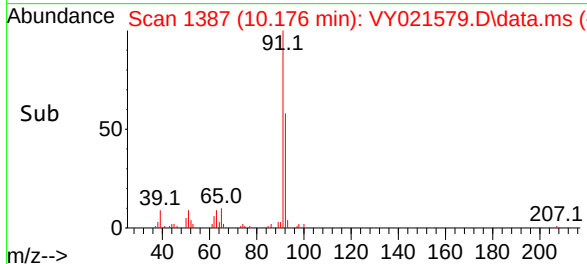
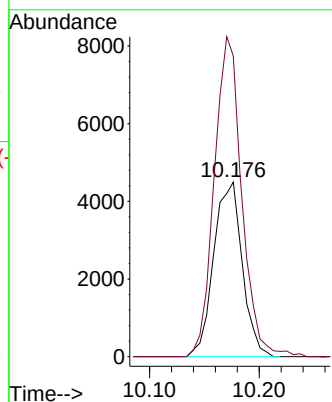
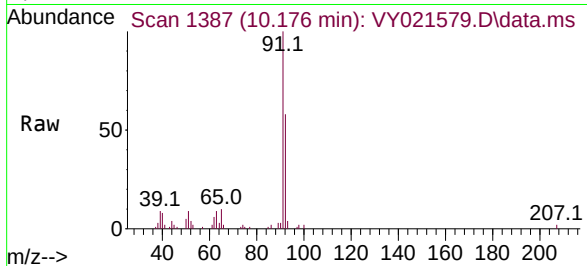




#52
Toluene
Concen: 6.046 ug/l
RT: 10.176 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY021579.D
Acq: 20 Mar 2025 14:01

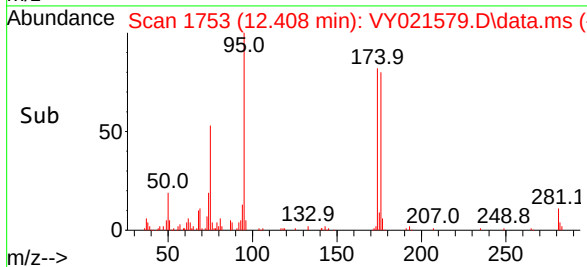
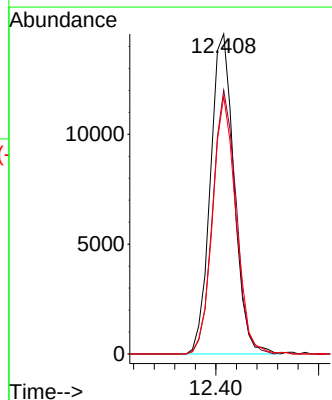
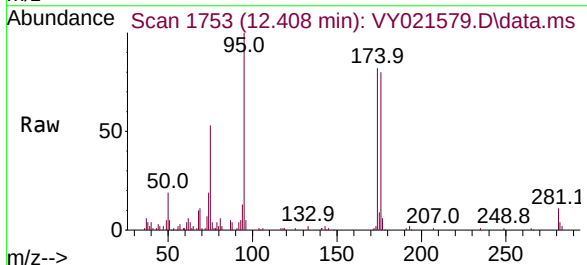
Instrument :
MSVOA_Y
ClientSampleId :
RBR251346

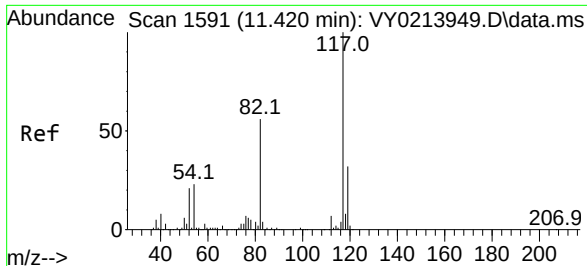
Tgt Ion: 92 Resp: 8115
Ion Ratio Lower Upper
92 100
91 177.3 138.2 207.2



#62
4-Bromofluorobenzene
Concen: 39.126 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021579.D
Acq: 20 Mar 2025 14:01

Tgt Ion: 95 Resp: 23268
Ion Ratio Lower Upper
95 100
174 81.3 0.0 165.0
176 79.7 0.0 160.0

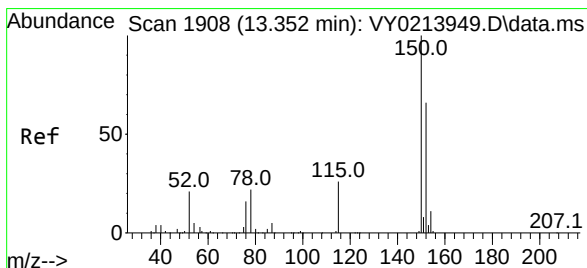
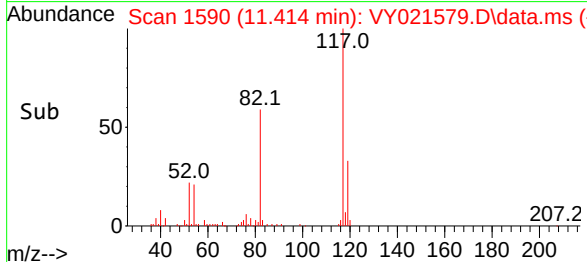
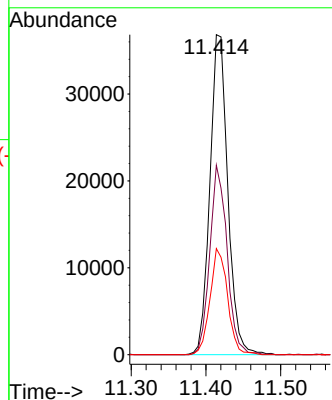
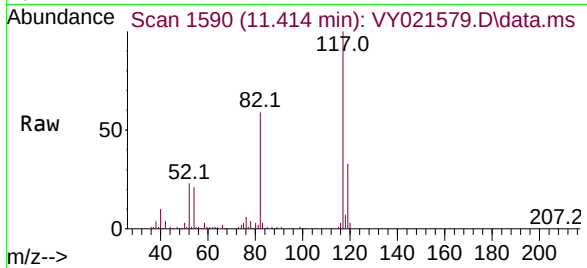




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1170
Delta R.T. -0.006 min
Lab File: VY021579.D
Acq: 20 Mar 2025 14:01

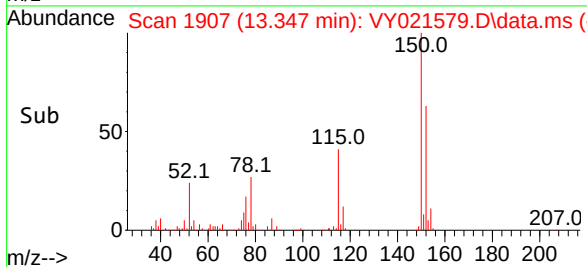
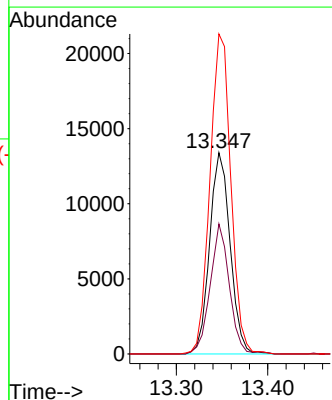
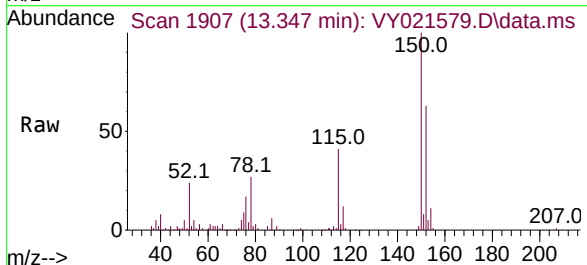
Instrument :
MSVOA_Y
ClientSampleId :
RBR251346

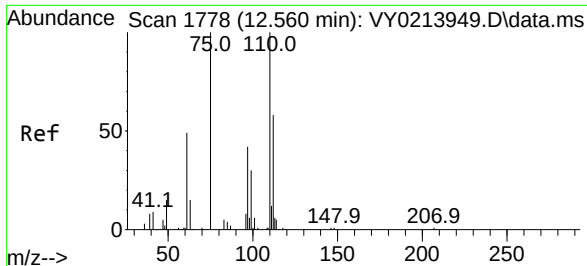
Tgt Ion:117	Resp:	61541
Ion Ratio	Lower	Upper
117	100	
82	59.2	44.6 67.0
119	33.1	25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. -0.006 min
Lab File: VY021579.D
Acq: 20 Mar 2025 14:01

Tgt Ion:152	Resp:	20880
Ion Ratio	Lower	Upper
152	100	
115	60.4	29.0 87.0
150	161.6	0.0 347.2

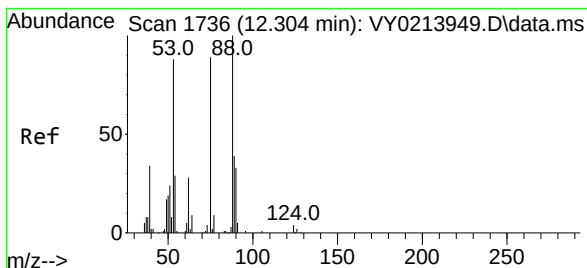
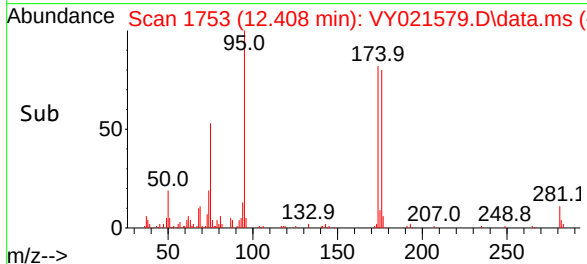
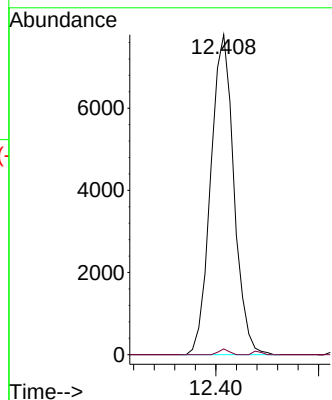
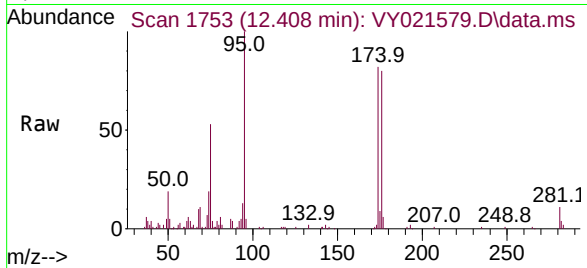




#76
1,2,3-Trichloropropane
Concen: 58.088 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.152 min
Lab File: VY021579.D
Acq: 20 Mar 2025 14:01

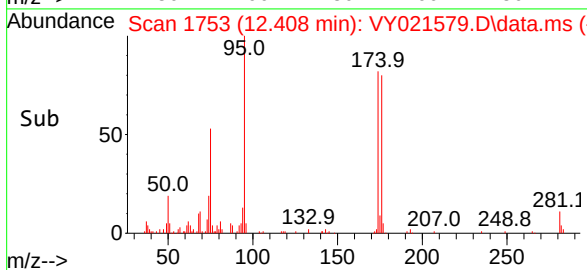
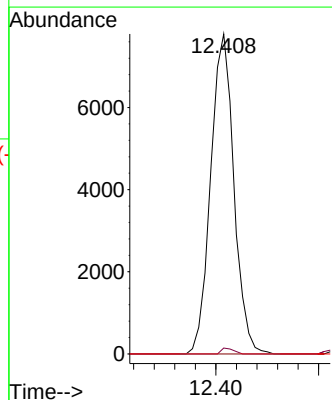
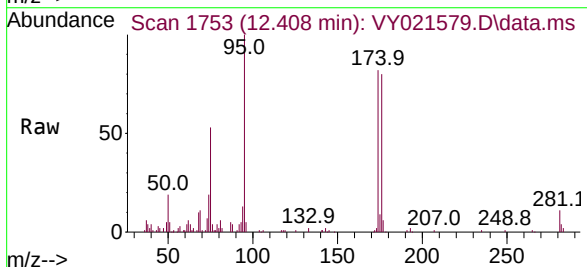
Instrument :
MSVOA_Y
ClientSampleId :
RBR251346

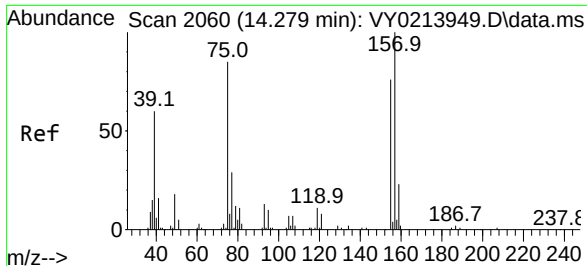
Tgt Ion: 75 Resp: 12222
Ion Ratio Lower Upper
75 100
77 0.8 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 132.052 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.104 min
Lab File: VY021579.D
Acq: 20 Mar 2025 14:01

Tgt Ion: 75 Resp: 12222
Ion Ratio Lower Upper
75 100
53 1.0 81.0 121.4#
89 0.0 36.9 55.3#





#92

1,2-Dibromo-3-Chloropropane

Concen: 1.472 ug/l

RT: 14.304 min Scan# 2064

Delta R.T. 0.025 min

Lab File: VY021579.D

Acq: 20 Mar 2025 14:01

Instrument :

MSVOA_Y

ClientSampleId :

RBR251346

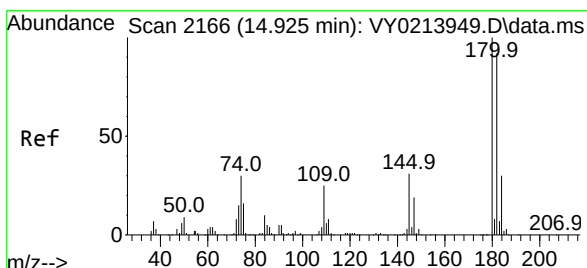
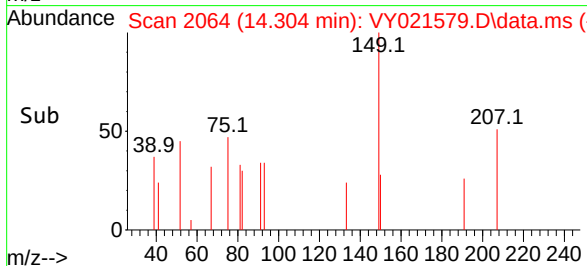
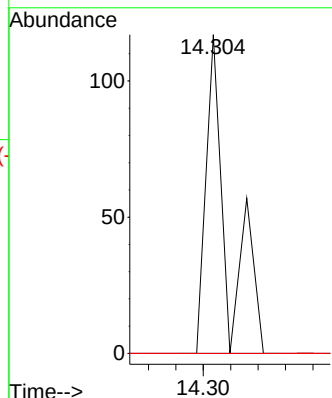
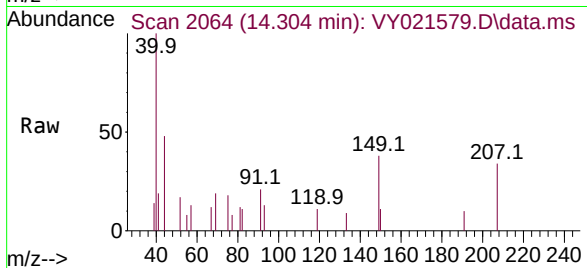
Tgt Ion: 75 Resp: 64

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: 1.244 ug/l

RT: 14.932 min Scan# 2167

Delta R.T. 0.006 min

Lab File: VY021579.D

Acq: 20 Mar 2025 14:01

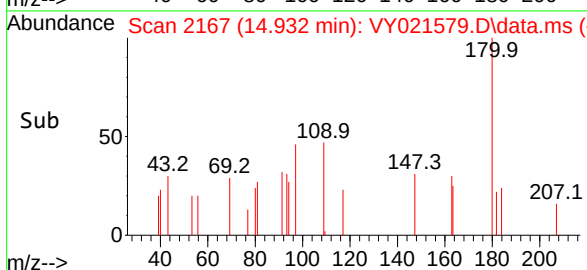
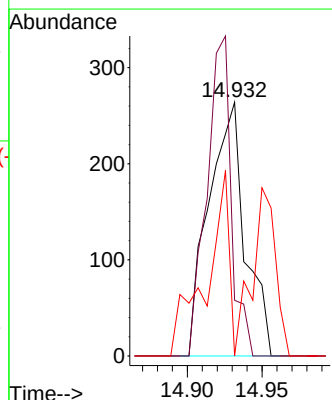
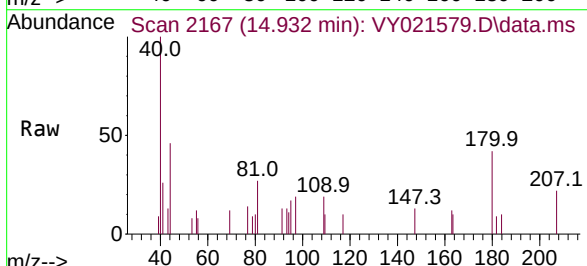
Tgt Ion:180 Resp: 446

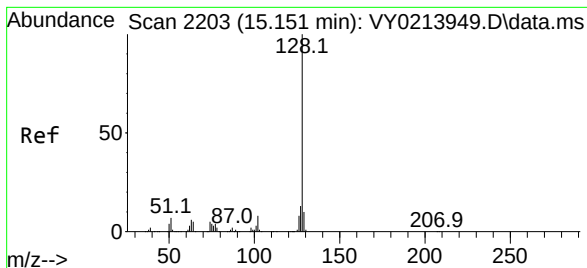
Ion Ratio Lower Upper

180 100

182 84.5 46.7 140.0

145 45.5 15.6 46.8





#95

Naphthalene

Concen: 4.015 ug/l

RT: 15.151 min Scan# 2203

Delta R.T. 0.000 min

Lab File: VY021579.D

Acq: 20 Mar 2025 14:01

Instrument :

MSVOA_Y

ClientSampleId :

RBR251346

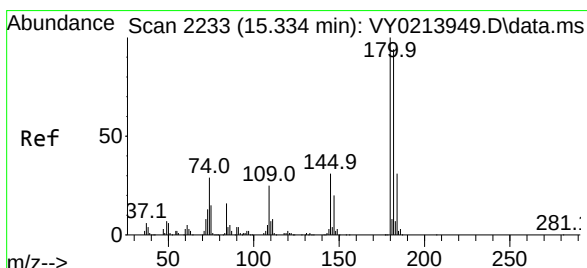
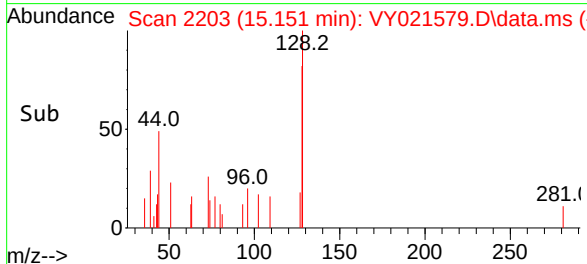
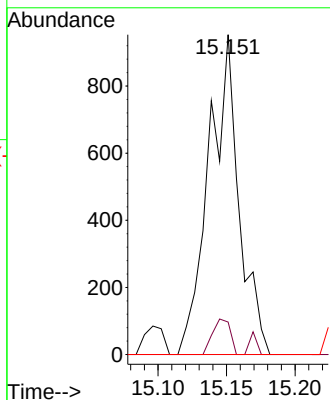
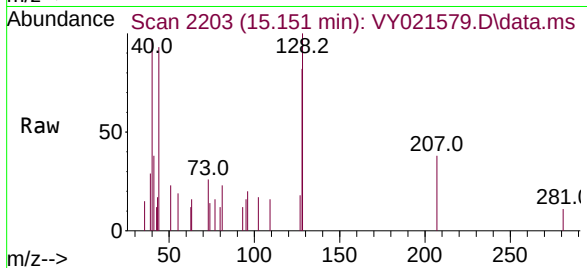
Tgt Ion:128 Resp: 1458

Ion Ratio Lower Upper

128 100

127 6.5 10.6 15.8#

129 0.0 8.6 13.0#



#96

1,2,3-Trichlorobenzene

Concen: 1.114 ug/l

RT: 15.334 min Scan# 2233

Delta R.T. 0.000 min

Lab File: VY021579.D

Acq: 20 Mar 2025 14:01

Tgt Ion:180 Resp: 336

Ion Ratio Lower Upper

180 100

182 112.2 47.2 141.6

145 53.6 16.4 49.1#

