

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032125\
 Data File : VY021604.D
 Acq On : 21 Mar 2025 16:59
 Operator : SY/MD
 Sample : Q1606-03
 Misc : 5.03g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 RBR251346RE

Quant Time: Mar 21 23:12:40 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	7.701	168	30551	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	8.616	114	47381	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	35909	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	10287	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	16865	52.229	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	104.460%
35) Dibromofluoromethane	7.628	113	18044	57.937	ug/l	-0.01
Spiked Amount	50.000	Range	54 - 147	Recovery	=	115.880%
50) Toluene-d8	10.109	98	52889	44.851	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	89.700%
62) 4-Bromofluorobenzene	12.408	95	11885	29.629	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	59.260%

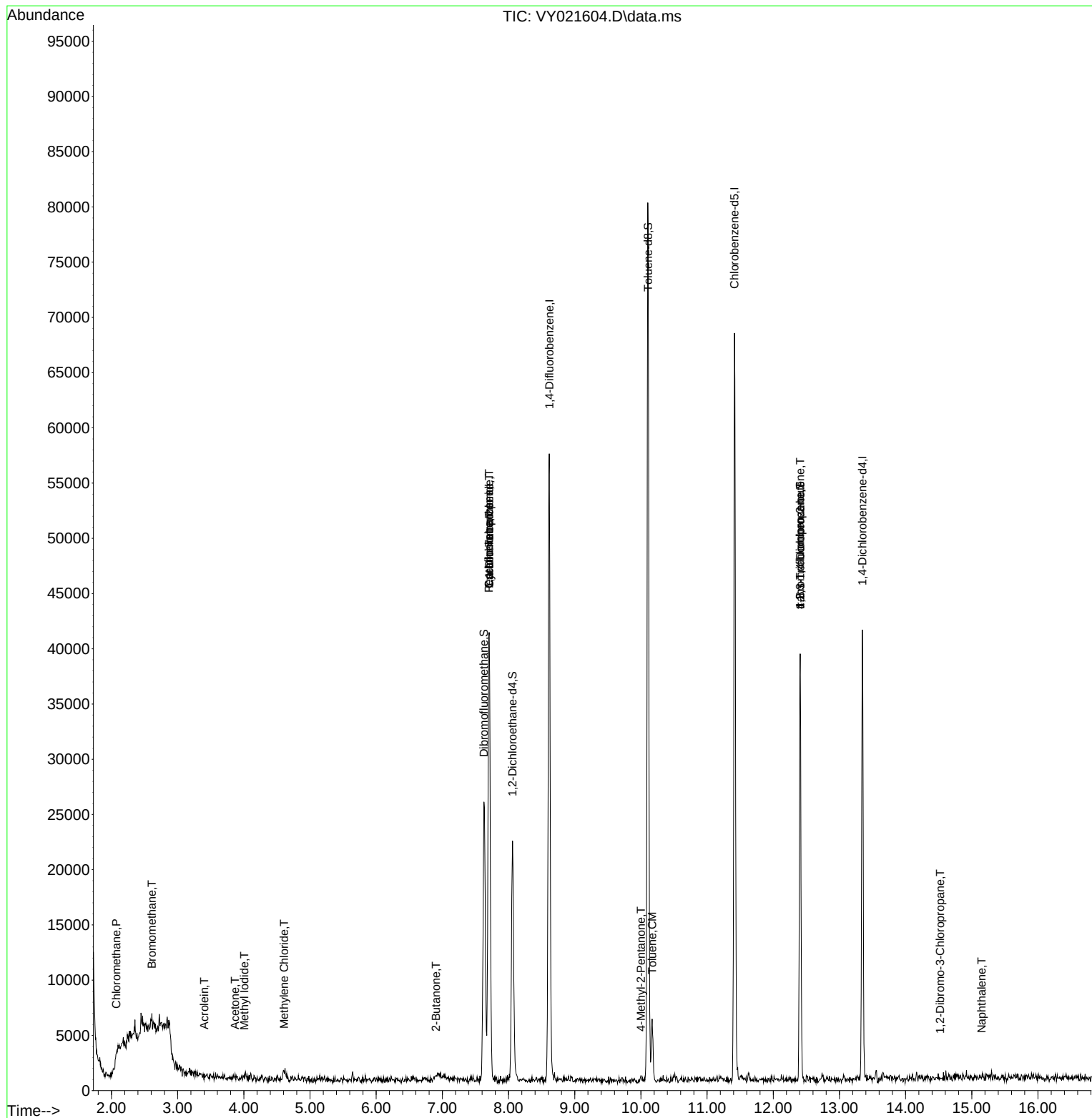
Target Compounds					Qvalue	
3) Chloromethane	2.074	50	428	1.083	ug/l #	40
5) Bromomethane	2.611	94	397	1.272	ug/l #	53
10) Methyl Iodide	4.007	142	425	1.215	ug/l #	86
11) Tert butyl alcohol	4.848	59	21	Below Cal	#	72
13) Acrolein	3.403	56	23	1.400	ug/l #	10
16) Acetone	3.866	43	418	5.935	ug/l	97
20) Methylene Chloride	4.610	84	743	2.010	ug/l #	52
25) 2-Butanone	6.902	43	305	3.131	ug/l #	48
31) Cyclohexane	7.707	56	875	1.447	ug/l #	23
36) 1,1-Dichloropropene	7.707	75	2725	5.590	ug/l #	50
38) Carbon Tetrachloride	7.707	117	3517	6.273	ug/l #	16
51) 4-Methyl-2-Pentanone	9.999	43	305	1.413	ug/l #	82
52) Toluene	10.170	92	1910	2.110	ug/l	93
76) 1,2,3-Trichloropropane	12.408	75	6543	63.120	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.408	75	6543	143.490	ug/l #	9
92) 1,2-Dibromo-3-Chloropr...	14.523	75	22	1.027	ug/l #	1
95) Naphthalene	15.151	128	183	2.105	ug/l #	69

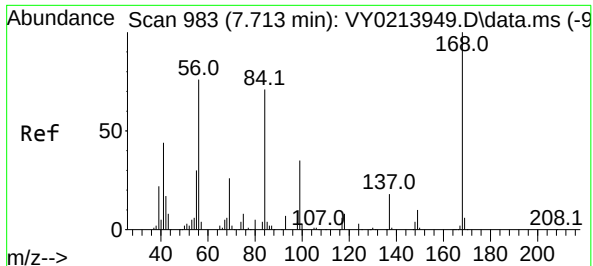
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032125\
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Operator : SY/MD
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Misc : 5.03g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 17 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
RBR251346RE

Quant Time: Mar 21 23:12:40 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

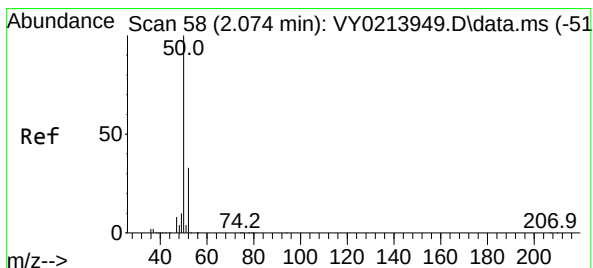
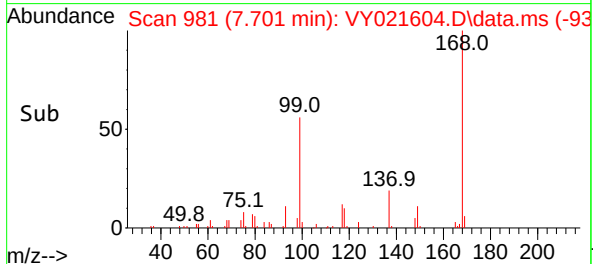
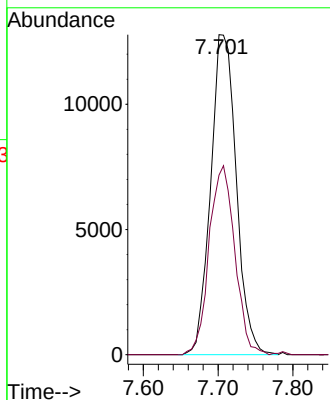
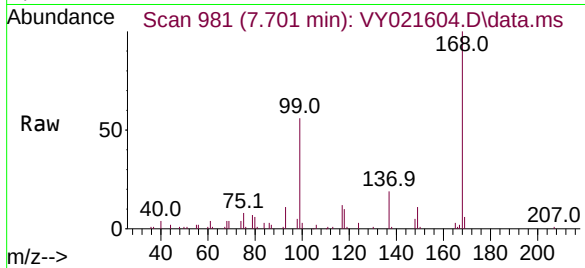




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 91
Delta R.T. -0.012 min
Lab File: VY021604.D
Acq: 21 Mar 2025 16:59

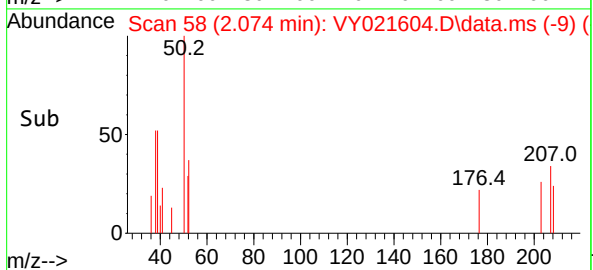
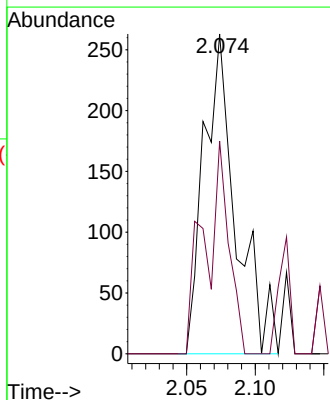
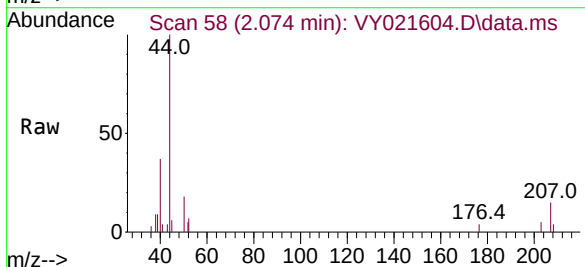
Instrument :
MSVOA_Y
ClientSampleId :
RBR251346RE

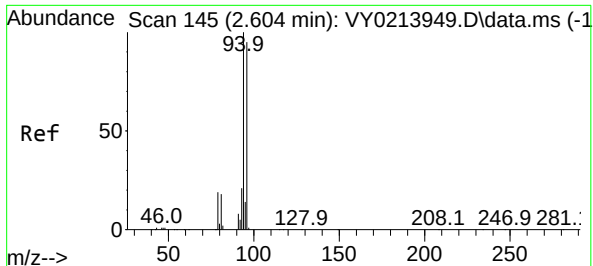
Tgt Ion:168 Resp: 30551
Ion Ratio Lower Upper
168 100
99 56.1 46.0 69.0



#3
Chloromethane
Concen: 1.083 ug/l
RT: 2.074 min Scan# 58
Delta R.T. 0.000 min
Lab File: VY021604.D
Acq: 21 Mar 2025 16:59

Tgt Ion: 50 Resp: 428
Ion Ratio Lower Upper
50 100
52 66.5 26.2 39.2#

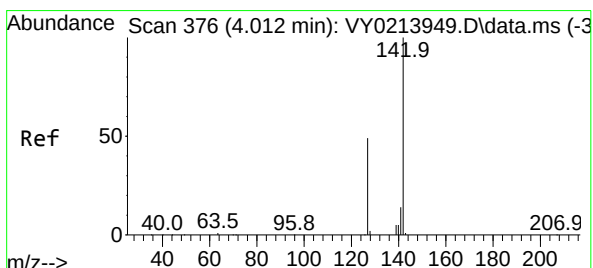
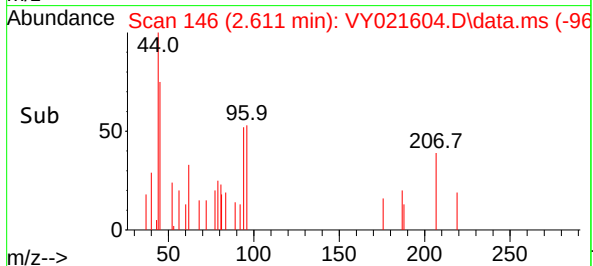
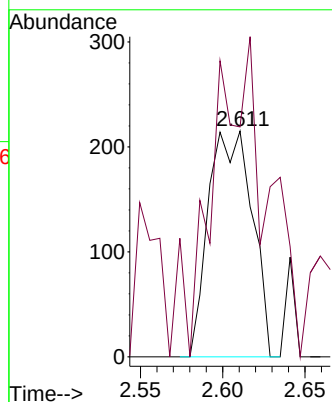
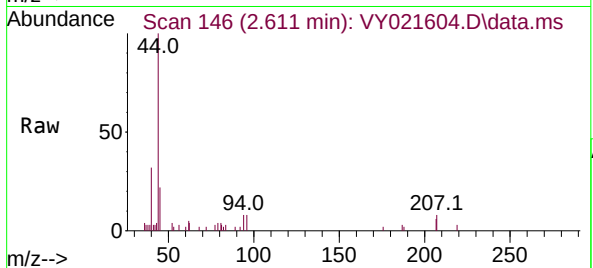




#5
Bromomethane
Concen: 1.272 ug/l
RT: 2.611 min Scan# 145
Delta R.T. 0.006 min
Lab File: VY021604.D
Acq: 21 Mar 2025 16:59

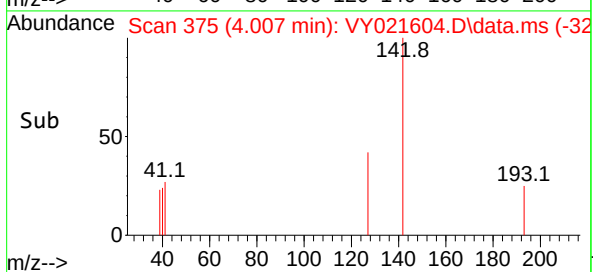
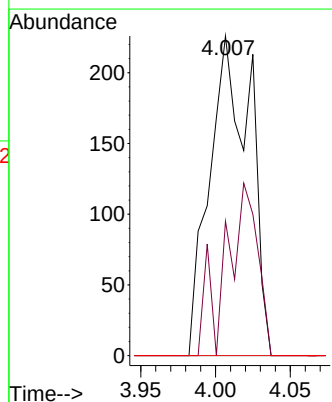
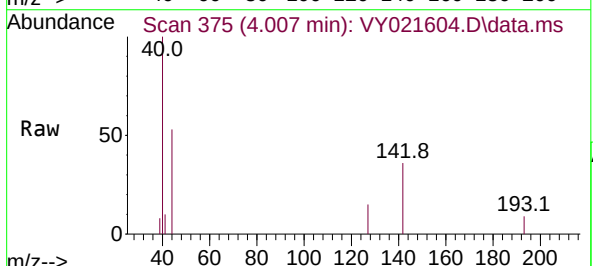
Instrument :
MSVOA_Y
ClientSampleId :
RBR251346RE

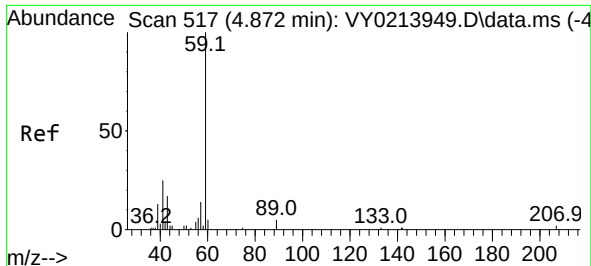
Tgt Ion: 94 Resp: 397
Ion Ratio Lower Upper
94 100
96 49.3 76.3 114.5#



#10
Methyl Iodide
Concen: 1.215 ug/l
RT: 4.007 min Scan# 375
Delta R.T. -0.006 min
Lab File: VY021604.D
Acq: 21 Mar 2025 16:59

Tgt Ion:142 Resp: 425
Ion Ratio Lower Upper
142 100
127 43.5 39.1 58.7
141 0.0 11.8 17.6#

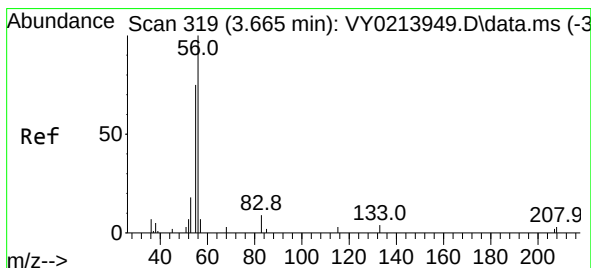
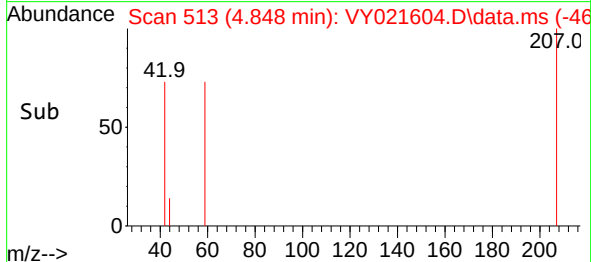
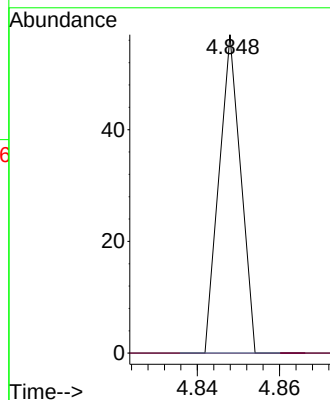
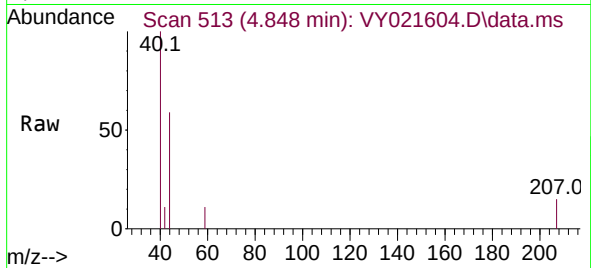




#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.848 min Scan# 51
Delta R.T. -0.024 min
Lab File: VY021604.D
Acq: 21 Mar 2025 16:59

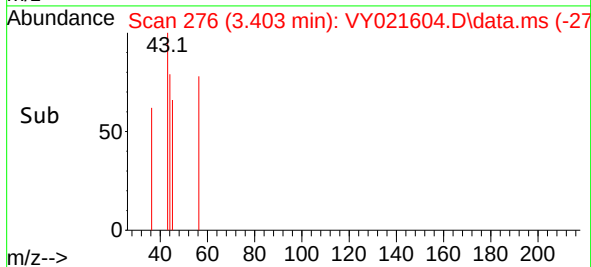
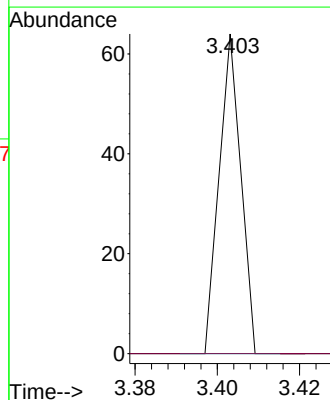
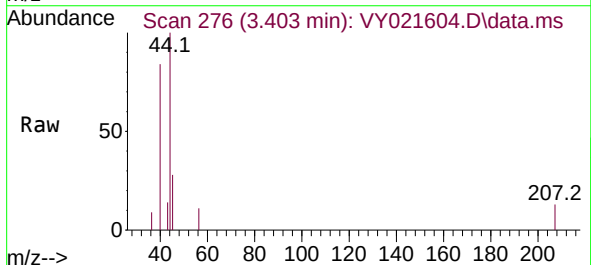
Instrument :
MSVOA_Y
ClientSampleId :
RBR251346RE

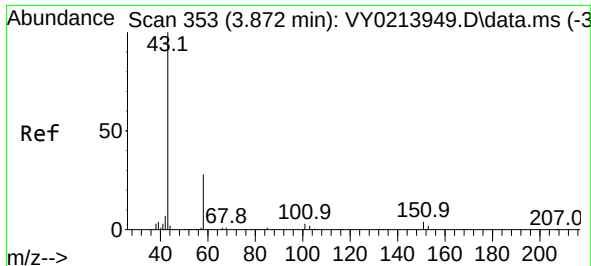
Tgt Ion: 59 Resp: 21
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 1.400 ug/l
RT: 3.403 min Scan# 276
Delta R.T. -0.262 min
Lab File: VY021604.D
Acq: 21 Mar 2025 16:59

Tgt Ion: 56 Resp: 23
Ion Ratio Lower Upper
56 100
55 0.0 63.4 95.2#

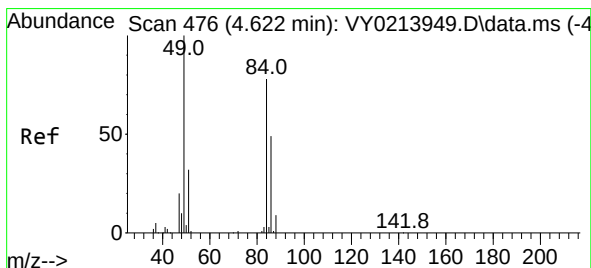
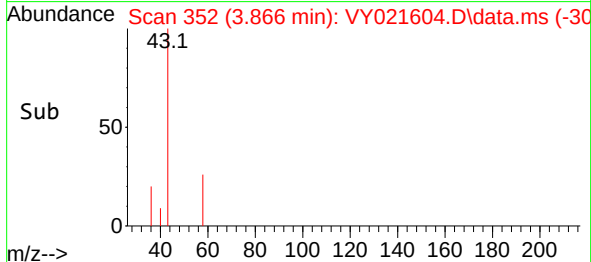
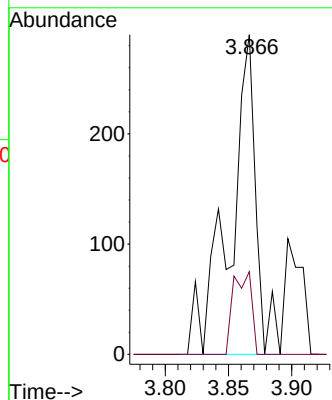
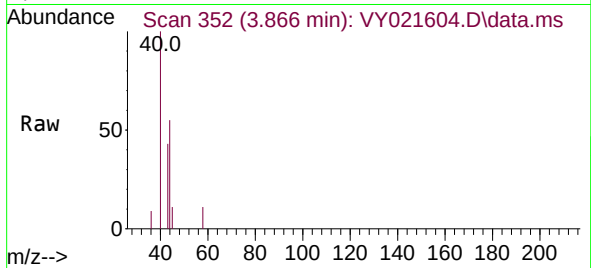




#16
Acetone
Concen: 5.935 ug/l
RT: 3.866 min Scan# 31
Delta R.T. -0.006 min
Lab File: VY021604.D
Acq: 21 Mar 2025 16:59

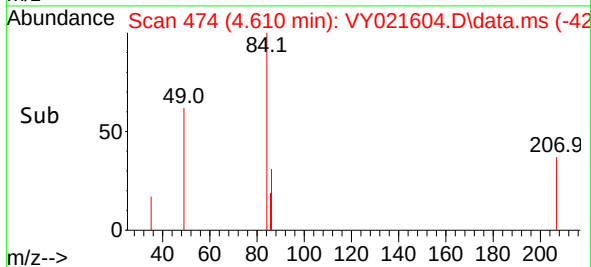
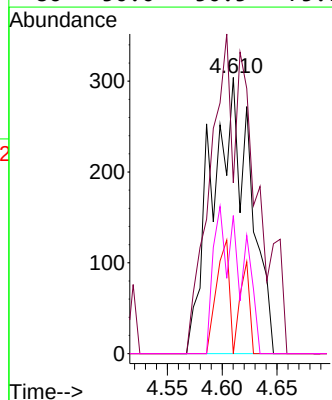
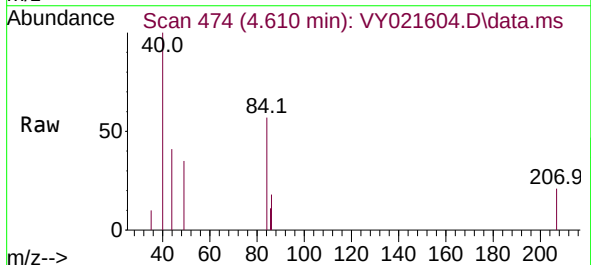
Instrument :
MSVOA_Y
ClientSampleId :
RBR251346RE

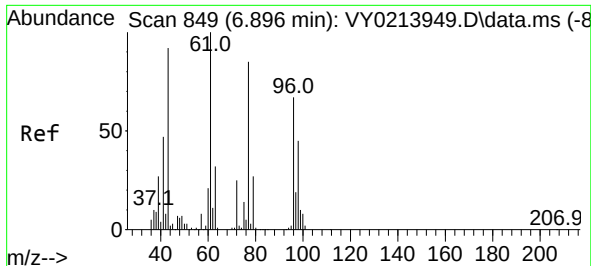
Tgt Ion: 43 Resp: 418
Ion Ratio Lower Upper
43 100
58 25.9 22.1 33.1



#20
Methylene Chloride
Concen: 2.010 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.012 min
Lab File: VY021604.D
Acq: 21 Mar 2025 16:59

Tgt Ion: 84 Resp: 743
Ion Ratio Lower Upper
84 100
49 61.8 102.0 153.0#
51 0.0 33.0 49.6#
86 50.0 50.5 75.7#

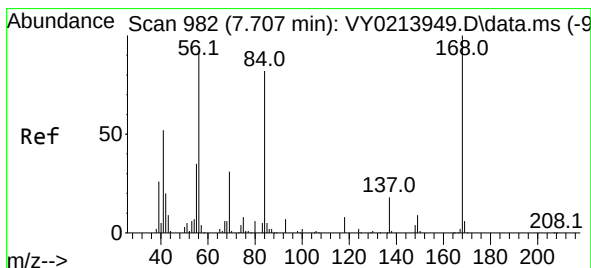
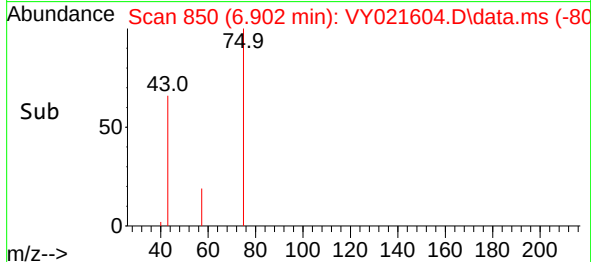
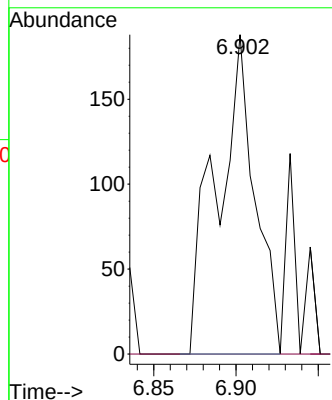
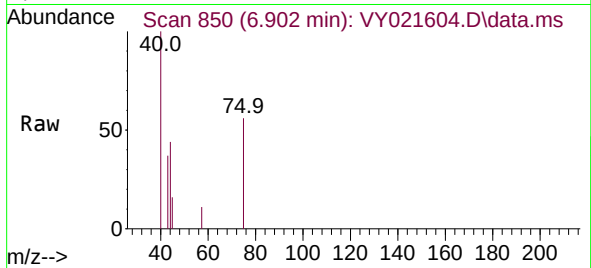




#25
2-Butanone
Concen: 3.131 ug/l
RT: 6.902 min Scan# 850
Delta R.T. 0.006 min
Lab File: VY021604.D
Acq: 21 Mar 2025 16:59

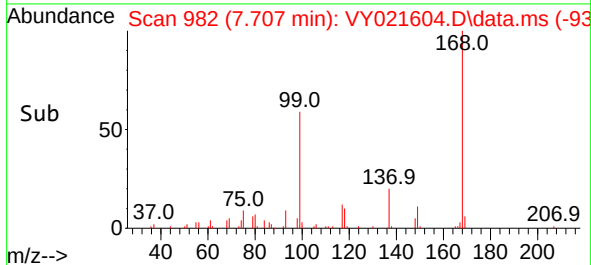
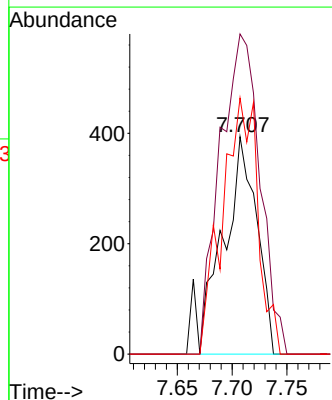
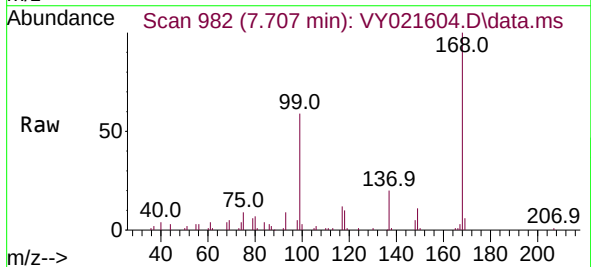
Instrument :
MSVOA_Y
ClientSampleId :
RBR251346RE

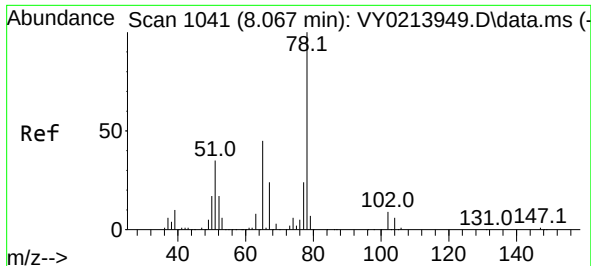
Tgt Ion: 43 Resp: 305
Ion Ratio Lower Upper
43 100
72 0.0 21.4 32.0#



#31
Cyclohexane
Concen: 1.447 ug/l
RT: 7.707 min Scan# 982
Delta R.T. 0.000 min
Lab File: VY021604.D
Acq: 21 Mar 2025 16:59

Tgt Ion: 56 Resp: 875
Ion Ratio Lower Upper
56 100
69 147.2 27.0 40.4#
84 117.8 71.1 106.7#





#33

1,2-Dichloroethane-d4

Concen: 52.229 ug/l

RT: 8.061 min Scan# 110

Delta R.T. -0.006 min

Lab File: VY021604.D

Acq: 21 Mar 2025 16:59

Instrument :

MSVOA_Y

ClientSampleId :

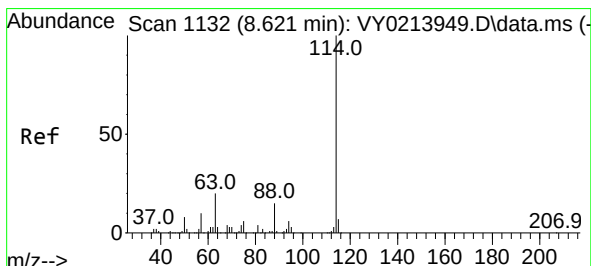
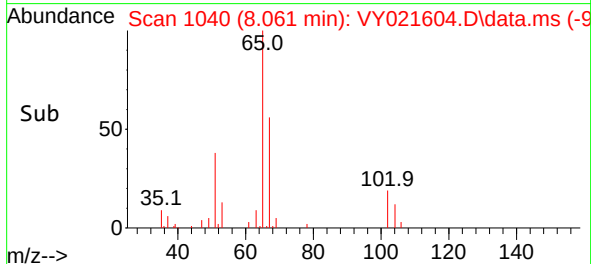
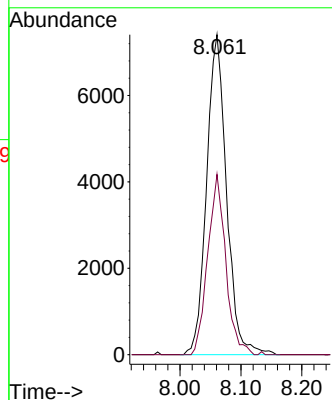
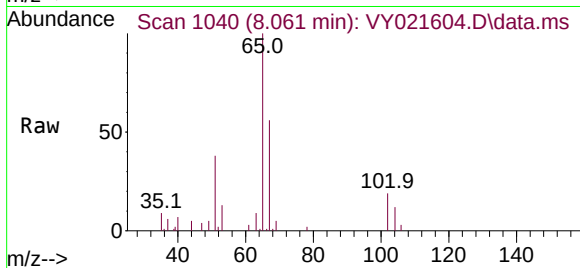
RBR251346RE

Tgt Ion: 65 Resp: 16865

Ion Ratio Lower Upper

65 100

67 50.9 0.0 102.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VY021604.D

Acq: 21 Mar 2025 16:59

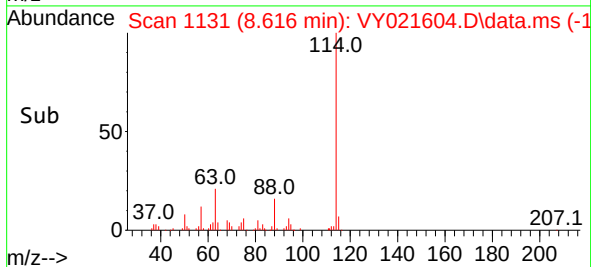
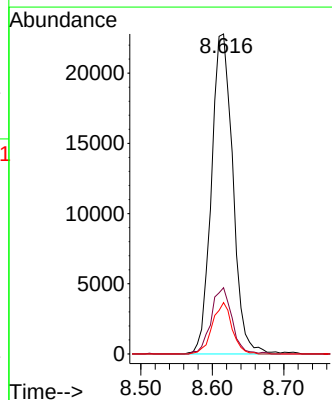
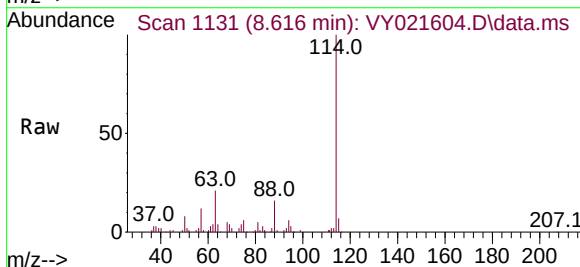
Tgt Ion: 114 Resp: 47381

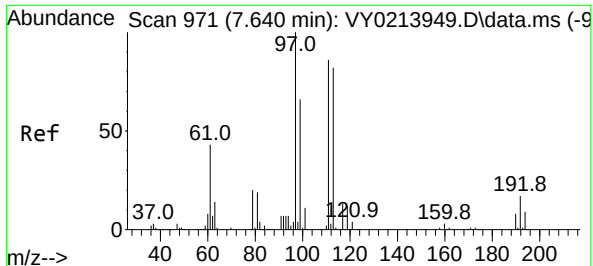
Ion Ratio Lower Upper

114 100

63 20.7 0.0 40.8

88 16.1 0.0 30.8





#35

Dibromofluoromethane

Concen: 57.937 ug/l

RT: 7.628 min Scan# 91

Delta R.T. -0.012 min

Lab File: VY021604.D

Acq: 21 Mar 2025 16:59

Instrument :

MSVOA_Y

ClientSampleId :

RBR251346RE

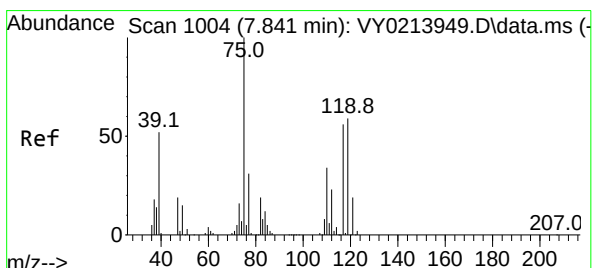
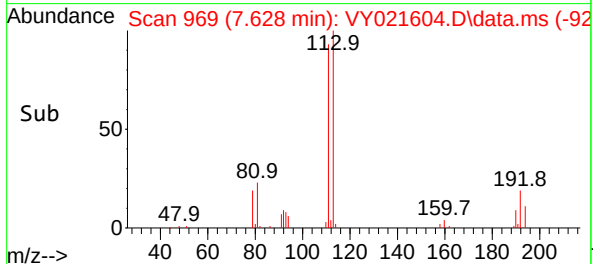
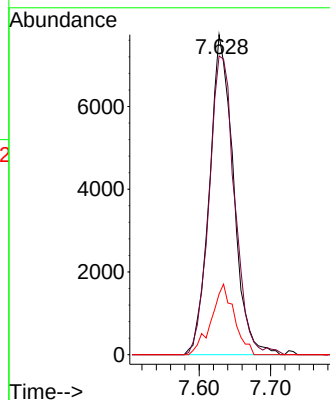
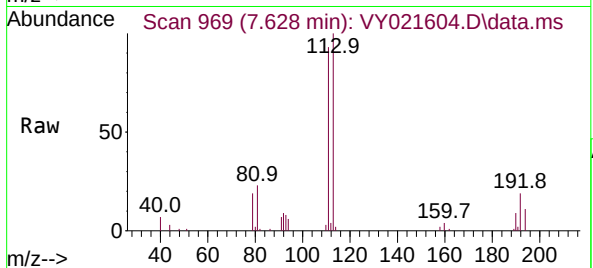
Tgt Ion:113 Resp: 18044

Ion Ratio Lower Upper

113 100

111 98.3 82.0 123.0

192 21.1 15.9 23.9



#36

1,1-Dichloropropene

Concen: 5.590 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.134 min

Lab File: VY021604.D

Acq: 21 Mar 2025 16:59

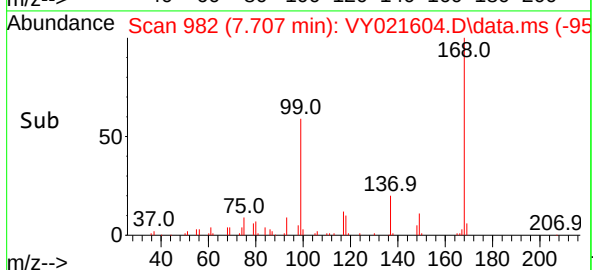
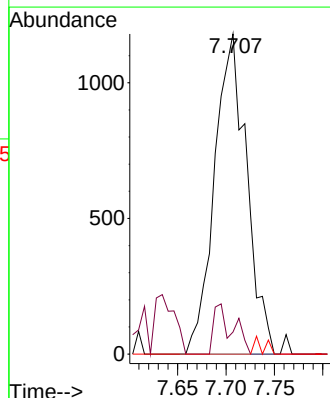
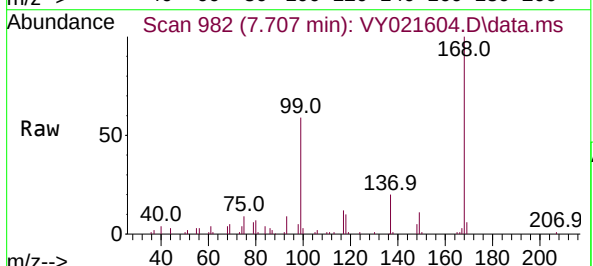
Tgt Ion: 75 Resp: 2725

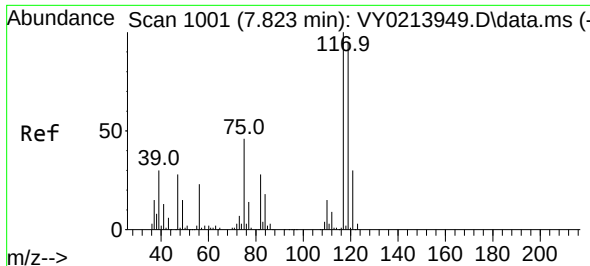
Ion Ratio Lower Upper

75 100

110 9.1 17.3 51.7#

77 0.0 25.4 38.2#

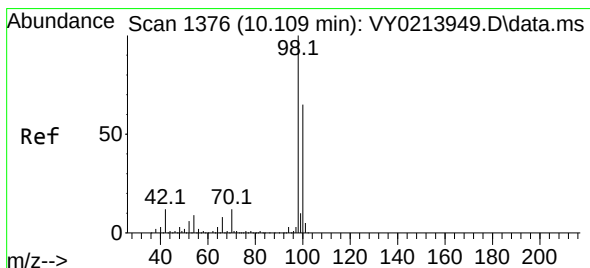
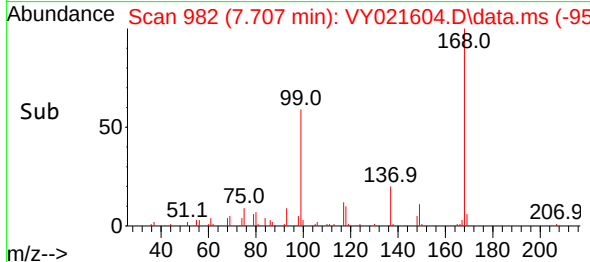
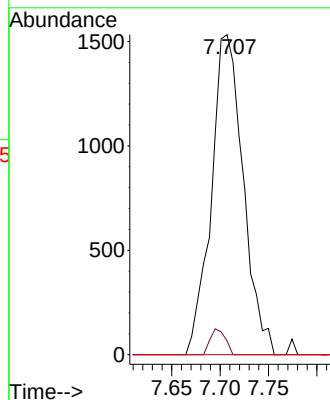
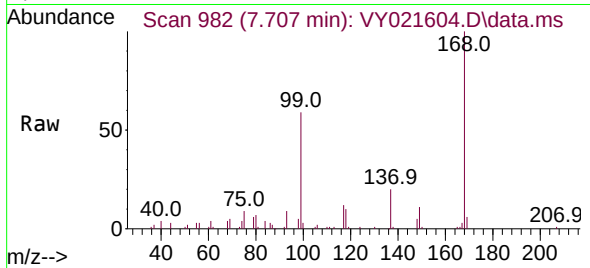




#38
Carbon Tetrachloride
Concen: 6.273 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY021604.D
Acq: 21 Mar 2025 16:59

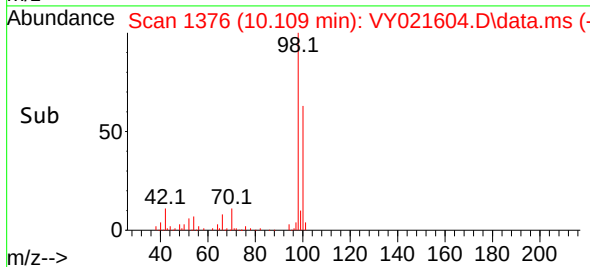
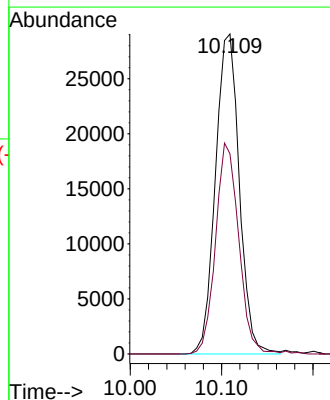
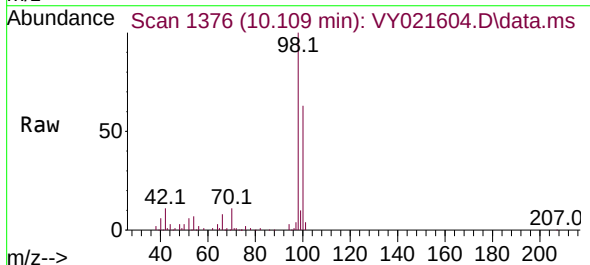
Instrument :
MSVOA_Y
ClientSampleId :
RBR251346RE

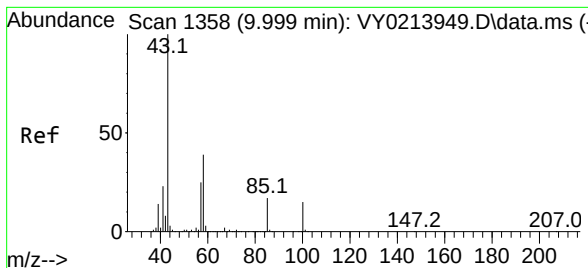
Tgt Ion:117 Resp: 3517
Ion Ratio Lower Upper
117 100
119 4.3 75.8 113.8#
121 0.0 23.9 35.9#



#50
Toluene-d8
Concen: 44.851 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY021604.D
Acq: 21 Mar 2025 16:59

Tgt Ion: 98 Resp: 52889
Ion Ratio Lower Upper
98 100
100 63.9 52.1 78.1

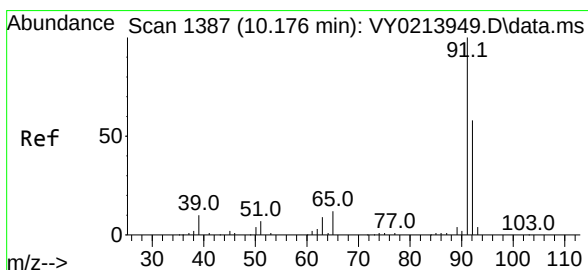
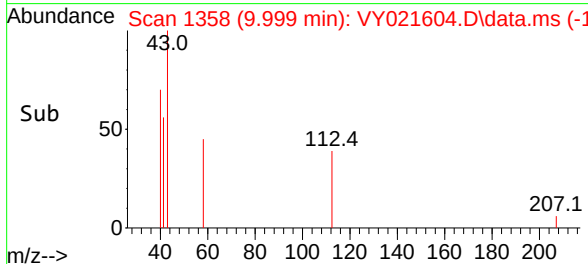
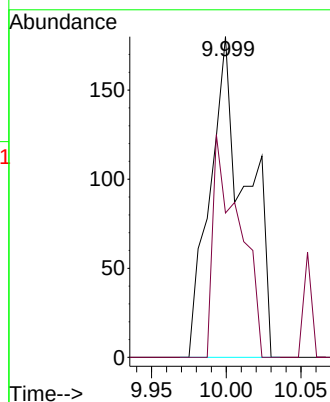
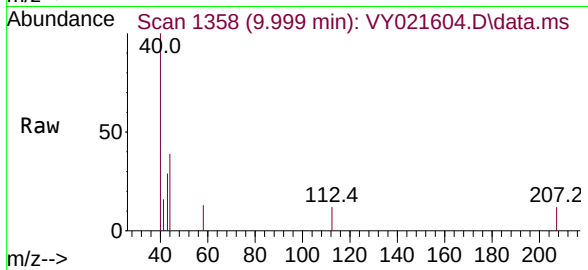




#51
4-Methyl-2-Pentanone
Concen: 1.413 ug/l
RT: 9.999 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VY021604.D
Acq: 21 Mar 2025 16:59

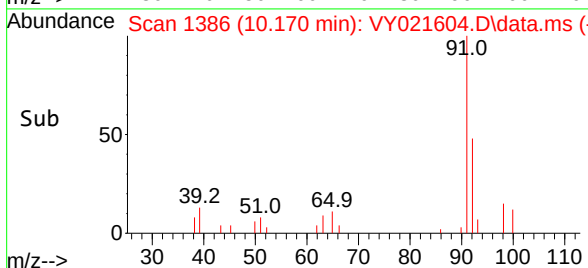
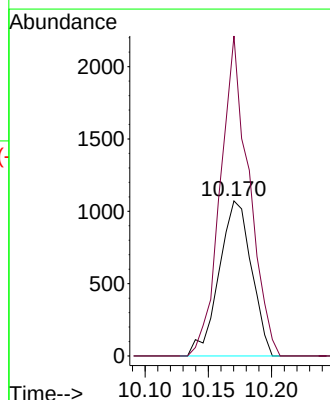
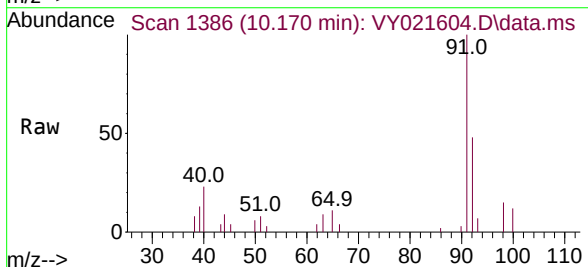
Instrument :
MSVOA_Y
ClientSampleId :
RBR251346RE

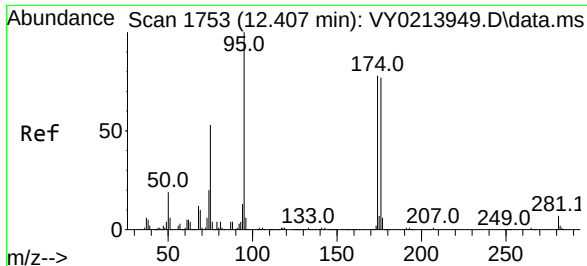
Tgt Ion: 43 Resp: 305
Ion Ratio Lower Upper
43 100
58 50.2 31.4 47.2#



#52
Toluene
Concen: 2.110 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.006 min
Lab File: VY021604.D
Acq: 21 Mar 2025 16:59

Tgt Ion: 92 Resp: 1910
Ion Ratio Lower Upper
92 100
91 182.5 138.2 207.2





#62

4-Bromofluorobenzene

Concen: 29.629 ug/l

RT: 12.408 min Scan# 1

Delta R.T. 0.000 min

Lab File: VY021604.D

Acq: 21 Mar 2025 16:59

Instrument :

MSVOA_Y

ClientSampleId :

RBR251346RE

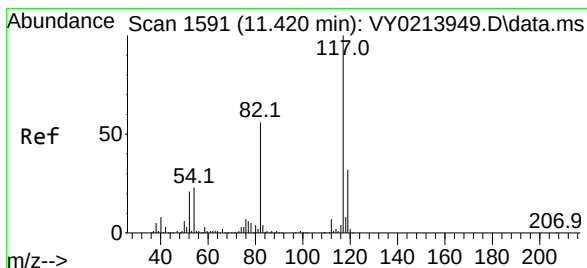
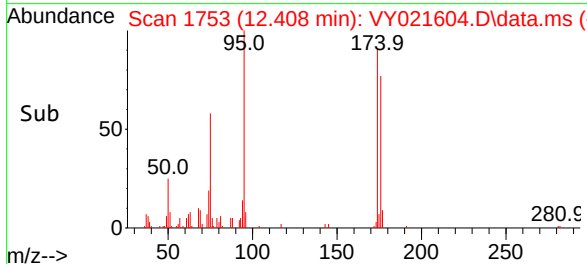
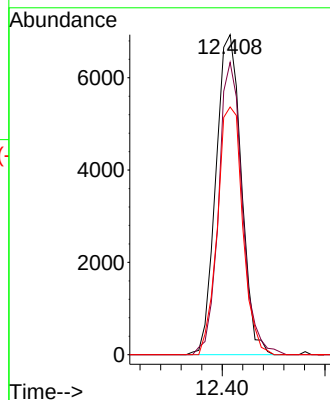
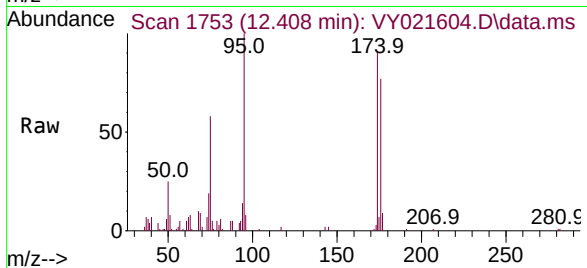
Tgt Ion: 95 Resp: 11885

Ion Ratio Lower Upper

95 100

174 85.0 0.0 165.0

176 76.8 0.0 160.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.006 min

Lab File: VY021604.D

Acq: 21 Mar 2025 16:59

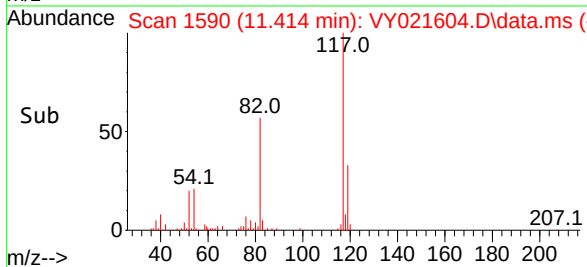
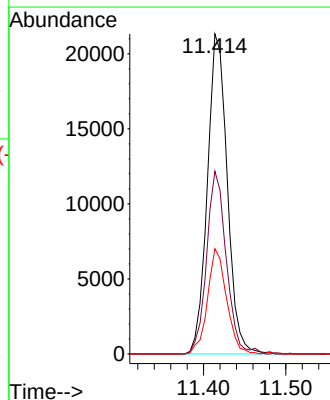
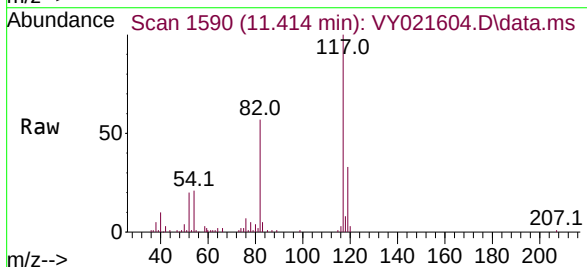
Tgt Ion: 117 Resp: 35909

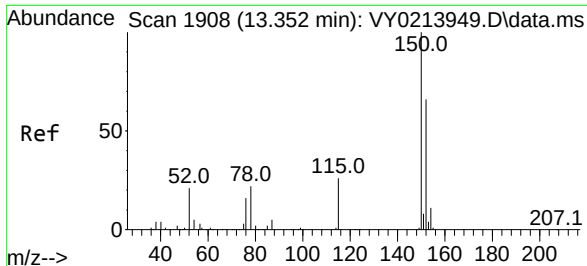
Ion Ratio Lower Upper

117 100

82 57.1 44.6 67.0

119 32.9 25.4 38.0

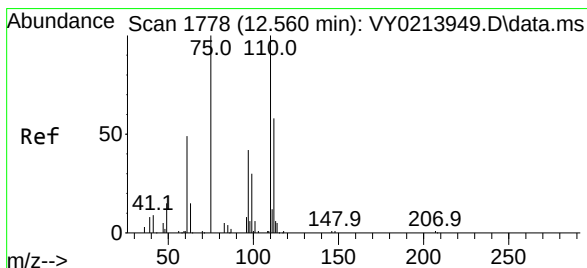
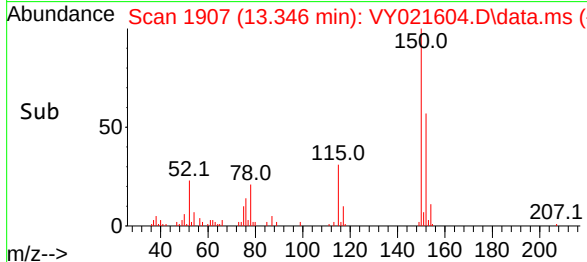
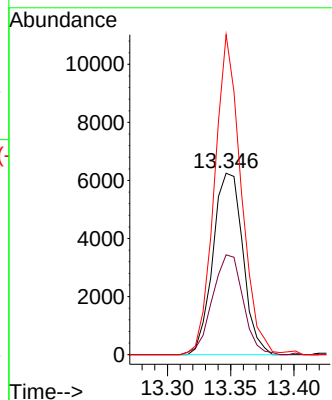
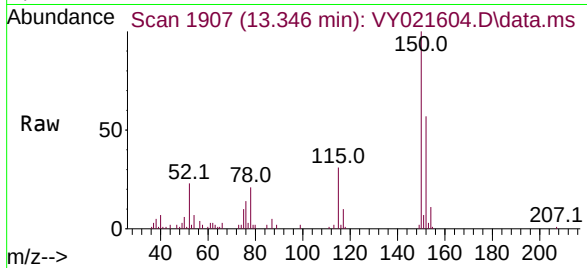




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.346 min Scan# 1908
 Delta R.T. -0.006 min
 Lab File: VY021604.D
 Acq: 21 Mar 2025 16:59

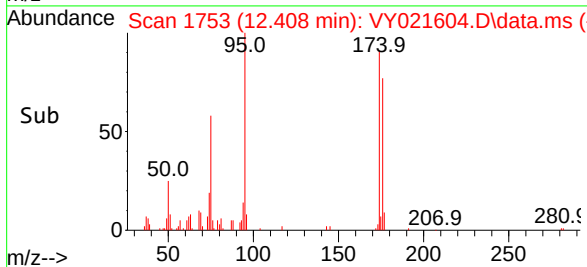
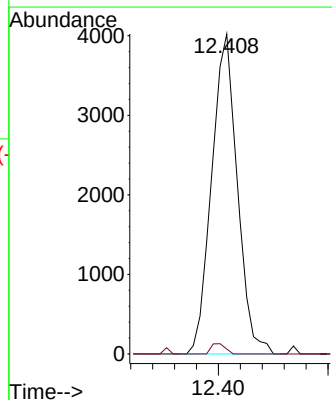
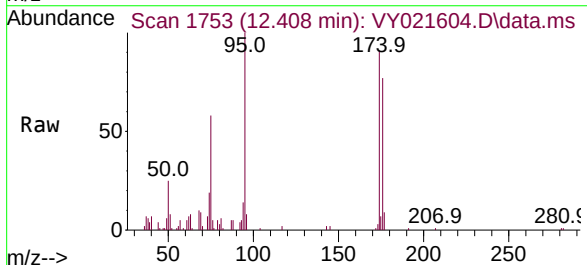
Instrument :
 MSVOA_Y
 ClientSampleId :
 RBR251346RE

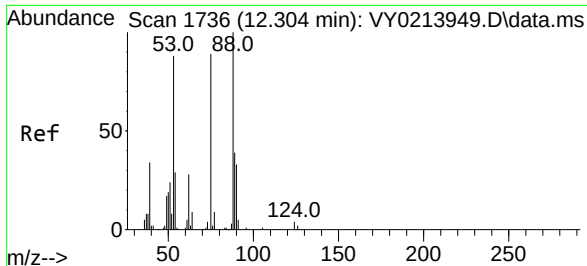
Tgt Ion:152 Resp: 10287
 Ion Ratio Lower Upper
 152 100
 115 56.3 29.0 87.0
 150 156.5 0.0 347.2



#76
 1,2,3-Trichloropropane
 Concen: 63.120 ug/l
 RT: 12.408 min Scan# 1753
 Delta R.T. -0.152 min
 Lab File: VY021604.D
 Acq: 21 Mar 2025 16:59

Tgt Ion: 75 Resp: 6543
 Ion Ratio Lower Upper
 75 100
 77 1.8 0.0 0.0#

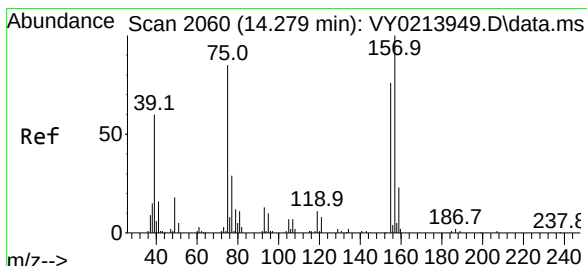
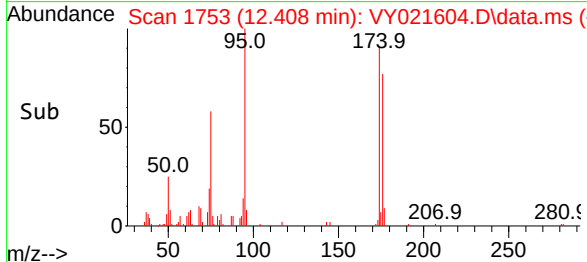
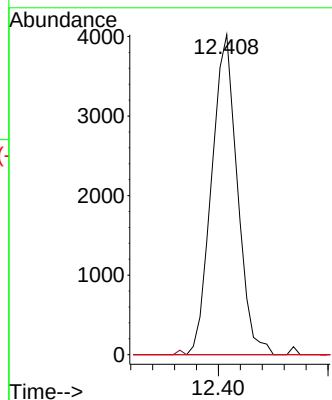
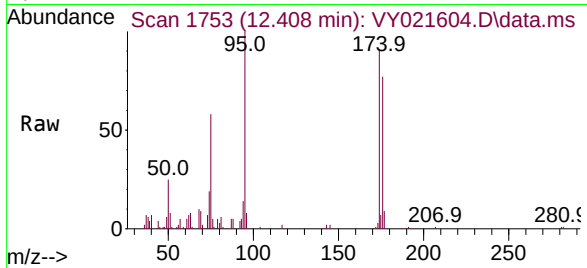




#81
 trans-1,4-Dichloro-2-butene
 Concen: 143.490 ug/l
 RT: 12.408 min Scan# 11
 Delta R.T. 0.104 min
 Lab File: VY021604.D
 Acq: 21 Mar 2025 16:59

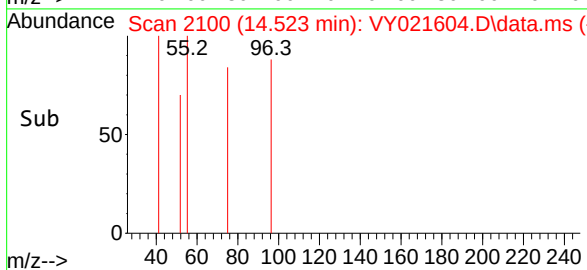
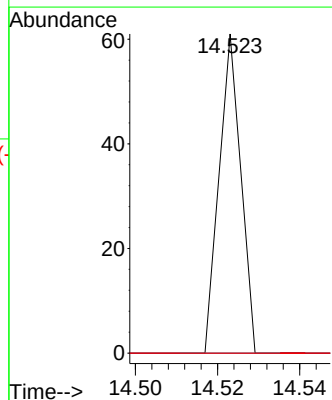
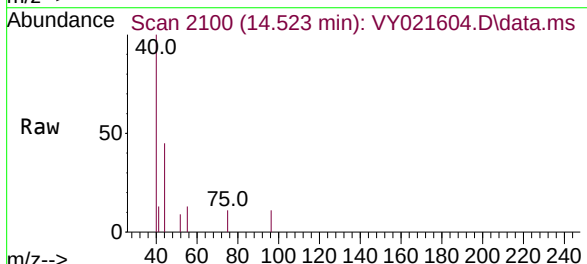
Instrument :
 MSVOA_Y
 ClientSampleId :
 RBR251346RE

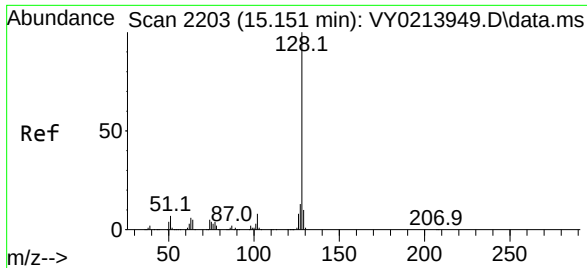
Tgt Ion: 75 Resp: 6543
 Ion Ratio Lower Upper
 75 100
 53 0.0 81.0 121.4#
 89 0.0 36.9 55.3#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 1.027 ug/l
 RT: 14.523 min Scan# 2100
 Delta R.T. 0.244 min
 Lab File: VY021604.D
 Acq: 21 Mar 2025 16:59

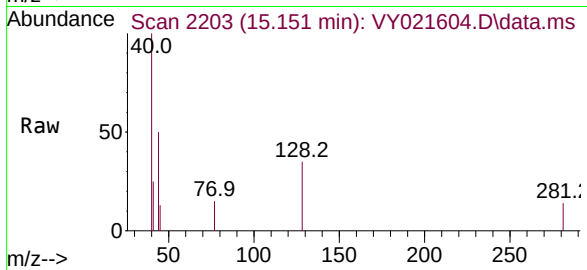
Tgt Ion: 75 Resp: 22
 Ion Ratio Lower Upper
 75 100
 155 0.0 43.5 130.5#
 157 0.0 54.4 163.2#





#95
Naphthalene
Concen: 2.105 ug/l
RT: 15.151 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY021604.D
Acq: 21 Mar 2025 16:59

Instrument :
MSVOA_Y
ClientSampleId :
RBR251346RE



Tgt Ion:128 Resp: 183
Ion Ratio Lower Upper
128 100
127 0.0 10.6 15.8#
129 0.0 8.6 13.0#

