

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY050324\  
 Data File : VY018141.D  
 Acq On : 03 May 2024 14:34  
 Operator : SY/MD  
 Sample : P2330-01  
 Misc : 4.47g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: May 06 02:57:48 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y050124S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 01 16:21:20 2024  
 Response via : Initial Calibration

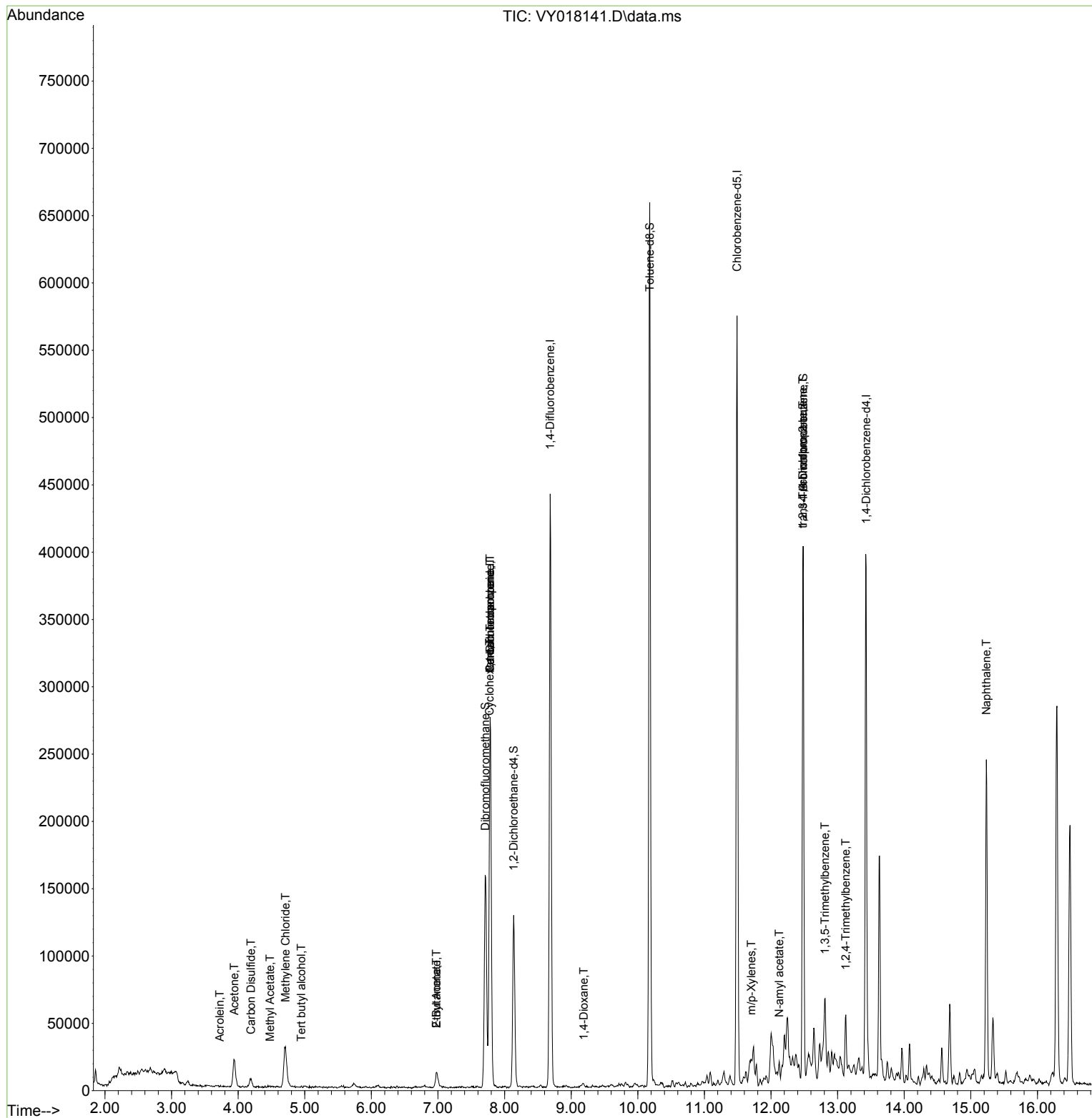
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 7.783  | 168   | 226432   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685  | 114   | 405687   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.490 | 117   | 332207   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.428 | 152   | 106776   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.136  | 65    | 89702    | 50.258   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery | = 100.520% |          |
| 35) Dibromofluoromethane      | 7.710  | 113   | 116043   | 49.775   | ug/l       | -0.01    |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery | = 99.540%  |          |
| 50) Toluene-d8                | 10.179 | 98    | 438614   | 48.192   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery | = 96.380%  |          |
| 62) 4-Bromofluorobenzene      | 12.483 | 95    | 119984   | 38.307   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery | = 76.620%  |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 11) Tert butyl alcohol        | 4.948  | 59    | 157      | 1.079    | ug/l #     | 24       |
| 13) Acrolein                  | 3.723  | 56    | 266      | 1.229    | ug/l #     | 51       |
| 16) Acetone                   | 3.942  | 43    | 34028    | 100.078  | ug/l       | 99       |
| 17) Carbon Disulfide          | 4.192  | 76    | 10969    | 1.697    | ug/l       | 98       |
| 18) Methyl Acetate            | 4.479  | 43    | 1239     | 1.423    | ug/l #     | 82       |
| 20) Methylene Chloride        | 4.710  | 84    | 23992    | 10.070   | ug/l       | 96       |
| 25) 2-Butanone                | 6.978  | 43    | 18479    | 34.934   | ug/l       | 98       |
| 31) Cyclohexane               | 7.777  | 56    | 4775     | 1.396    | ug/l #     | 8        |
| 36) 1,1-Dichloropropene       | 7.783  | 75    | 15393    | 4.946    | ug/l #     | 48       |
| 37) Ethyl Acetate             | 6.978  | 43    | 18479    | 13.645   | ug/l #     | 67       |
| 38) Carbon Tetrachloride      | 7.783  | 117   | 21229    | 6.010    | ug/l #     | 18       |
| 49) 1,4-Dioxane               | 9.191  | 88    | 44       | 2.990    | ug/l #     | 8        |
| 68) m/p-Xylenes               | 11.703 | 106   | 5315     | 1.128    | ug/l       | 98       |
| 74) N-amyl acetate            | 12.124 | 43    | 3111     | 1.764    | ug/l #     | 37       |
| 76) 1,2,3-Trichloropropane    | 12.477 | 75    | 58331    | 65.093   | ug/l #     | 100      |
| 80) 1,3,5-Trimethylbenzene    | 12.812 | 105   | 8131     | 1.255    | ug/l       | 94       |
| 81) trans-1,4-Dichloro-2-b... | 12.477 | 75    | 58331    | 118.584  | ug/l #     | 16       |
| 84) 1,2,4-Trimethylbenzene    | 13.123 | 105   | 23339    | 3.678    | ug/l       | 97       |
| 95) Naphthalene               | 15.233 | 128   | 204694   | 62.502   | ug/l       | 99       |
| -----                         |        |       |          |          |            |          |

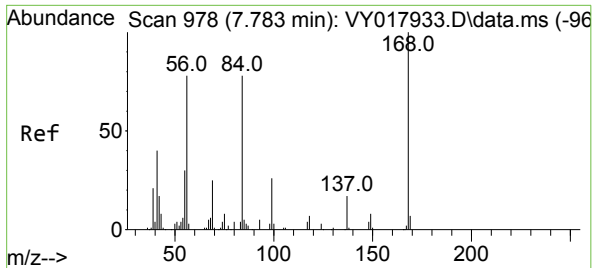
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 06 02:57:48 2024  
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Quant Title : SW846 8260  
QLast Update : Wed May 01 16:21:20 2024  
Response via : Initial Calibration

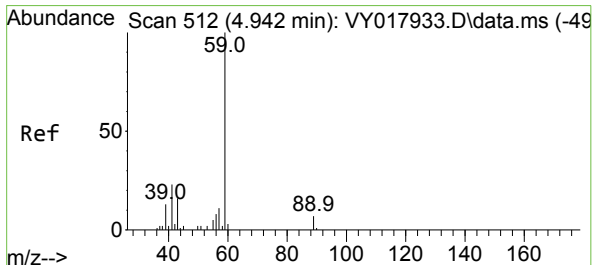
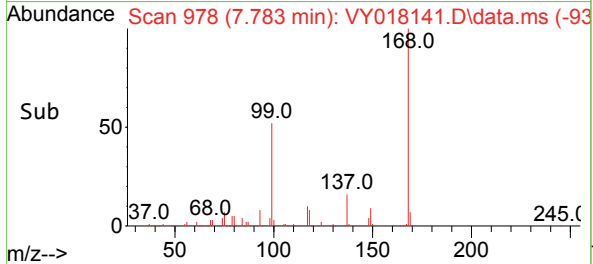
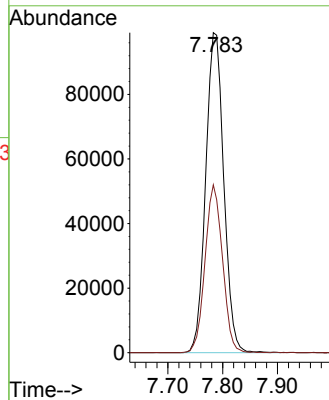
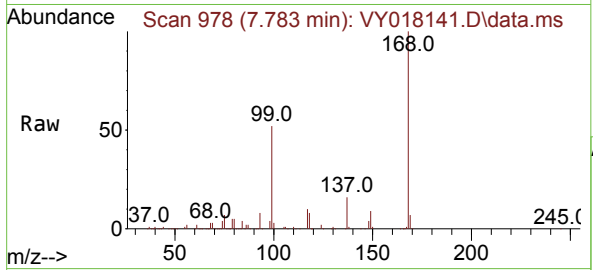




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY018141.D  
Acq: 03 May 2024 14:34

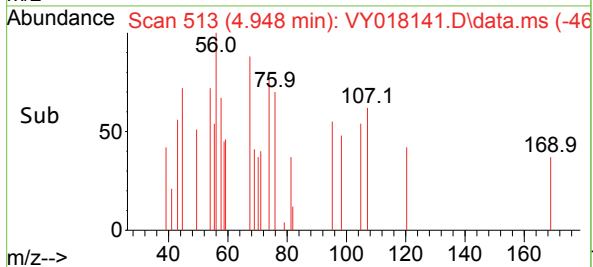
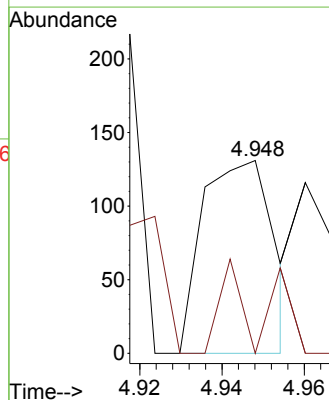
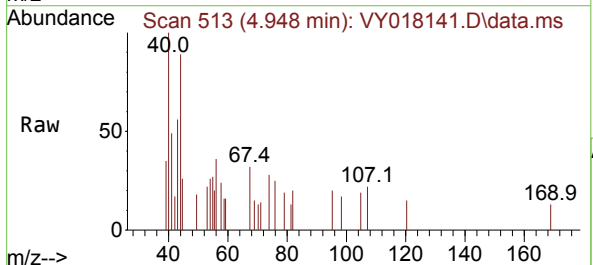
Instrument :  
MSVOA\_Y  
ClientSampleId :

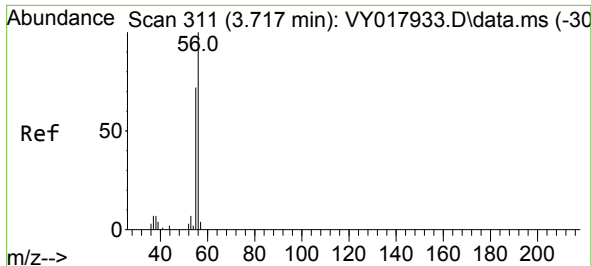
Tgt Ion:168 Resp: 226432  
Ion Ratio Lower Upper  
168 100  
99 52.4 39.1 58.7



#11  
Tert butyl alcohol  
Concen: 1.079 ug/l  
RT: 4.948 min Scan# 513  
Delta R.T. -0.006 min  
Lab File: VY018141.D  
Acq: 03 May 2024 14:34

Tgt Ion: 59 Resp: 157  
Ion Ratio Lower Upper  
59 100  
57 28.7 3.0 4.6#





#13

Acrolein

Concen: 1.229 ug/l

RT: 3.723 min Scan# 311

Delta R.T. -0.006 min

Lab File: VY018141.D

Acq: 03 May 2024 14:34

Instrument :

MSVOA\_Y

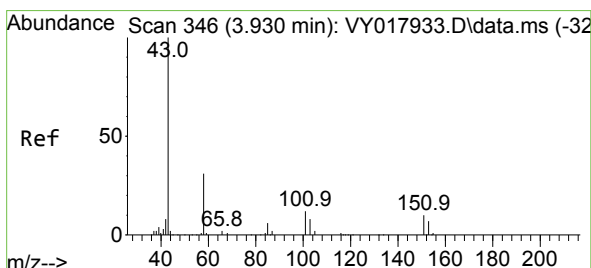
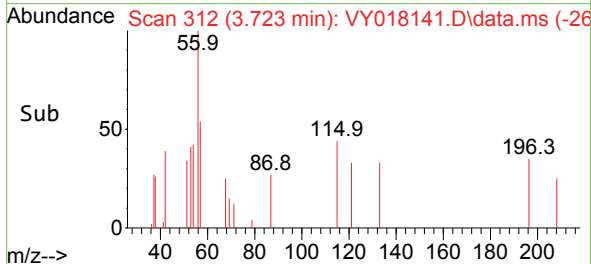
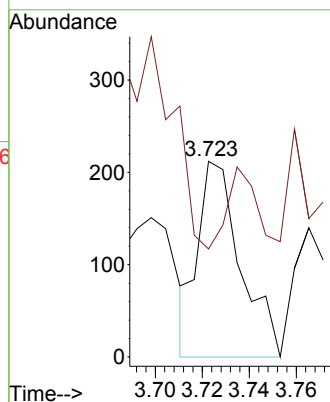
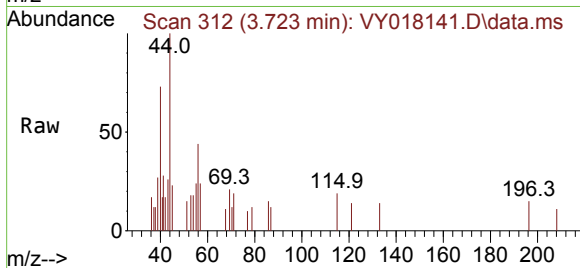
ClientSampleId :

Tgt Ion: 56 Resp: 266

Ion Ratio Lower Upper

56 100

55 29.7 55.7 83.5#



#16

Acetone

Concen: 100.078 ug/l

RT: 3.942 min Scan# 348

Delta R.T. -0.006 min

Lab File: VY018141.D

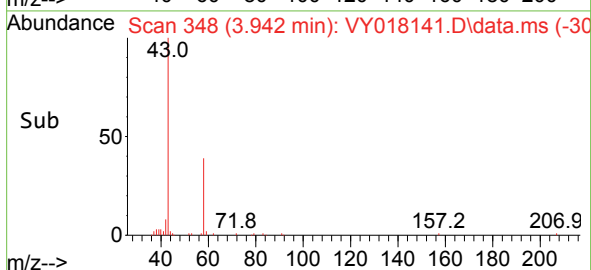
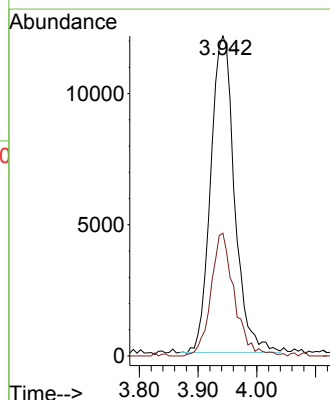
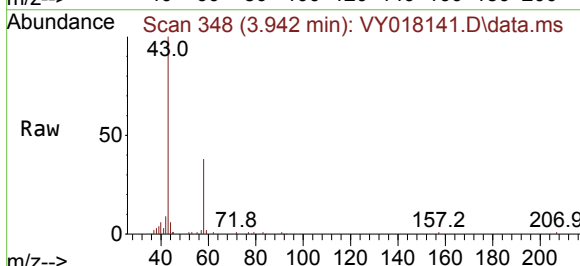
Acq: 03 May 2024 14:34

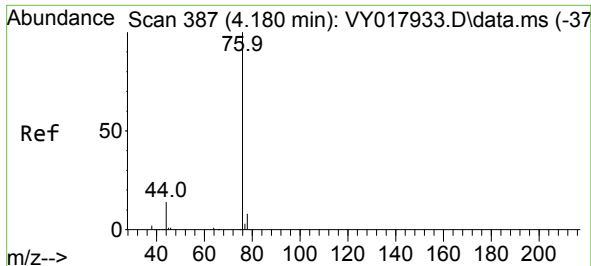
Tgt Ion: 43 Resp: 34028

Ion Ratio Lower Upper

43 100

58 38.8 31.7 47.5





#17

Carbon Disulfide

Concen: 1.697 ug/l

RT: 4.192 min Scan# 389

Delta R.T. 0.000 min

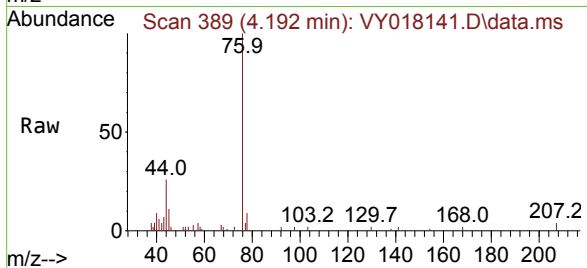
Lab File: VY018141.D

Acq: 03 May 2024 14:34

Instrument :

MSVOA\_Y

ClientSampleId :

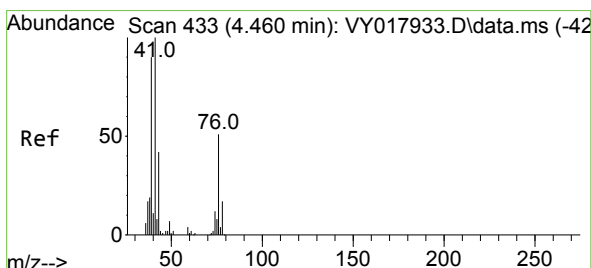
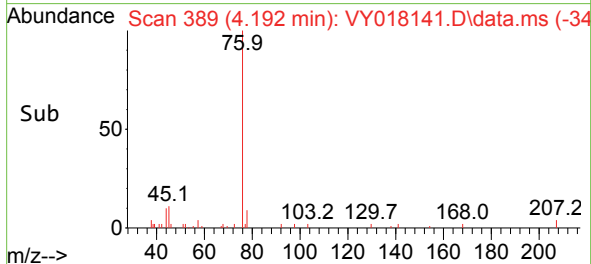
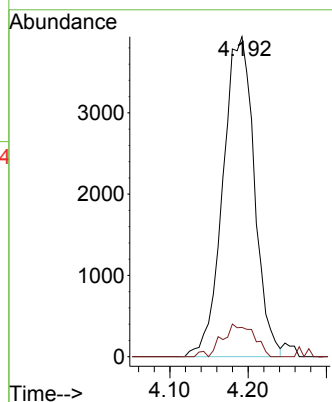


Tgt Ion: 76 Resp: 10969

Ion Ratio Lower Upper

76 100

78 9.1 6.8 10.2



#18

Methyl Acetate

Concen: 1.423 ug/l

RT: 4.479 min Scan# 436

Delta R.T. 0.001 min

Lab File: VY018141.D

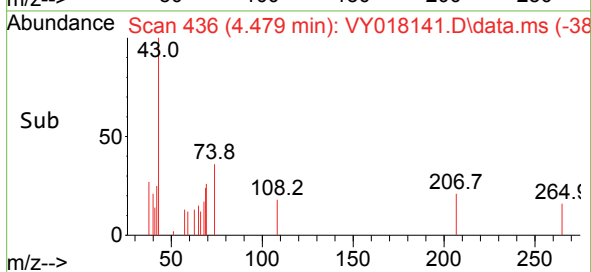
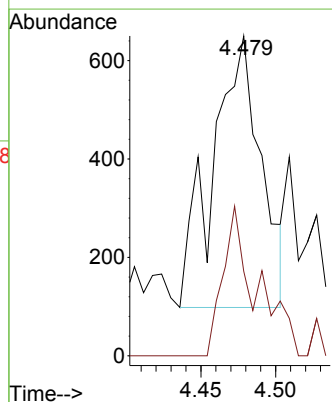
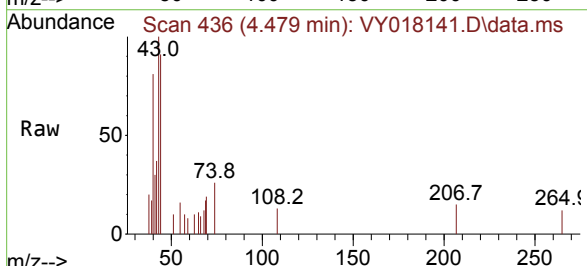
Acq: 03 May 2024 14:34

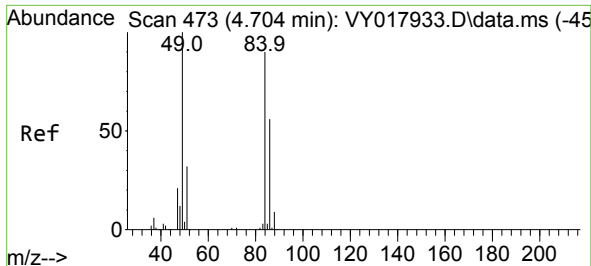
Tgt Ion: 43 Resp: 1239

Ion Ratio Lower Upper

43 100

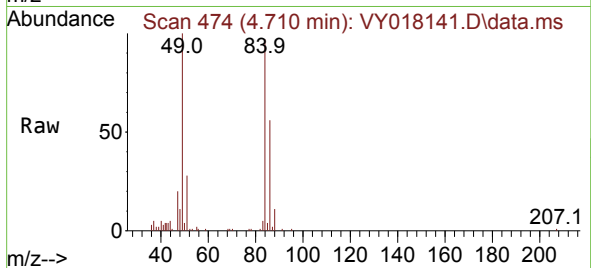
74 38.5 23.3 34.9#



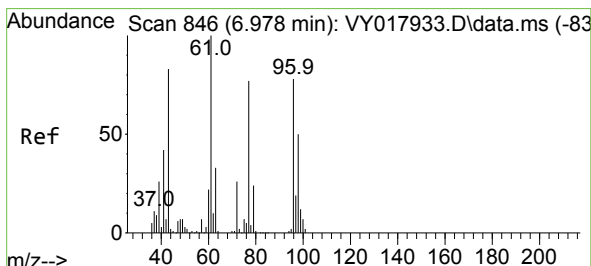
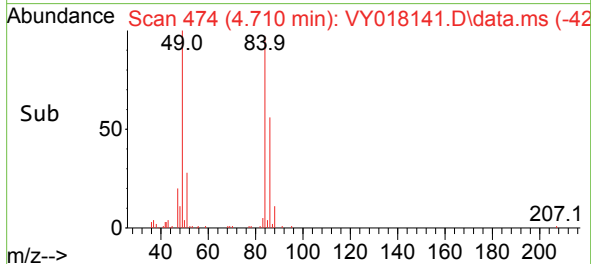
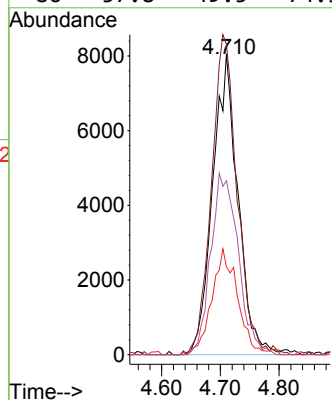


#20  
Methylene Chloride  
Concen: 10.070 ug/l  
RT: 4.710 min Scan# 473  
Delta R.T. -0.006 min  
Lab File: VY018141.D  
Acq: 03 May 2024 14:34

Instrument :  
MSVOA\_Y  
ClientSampleId :

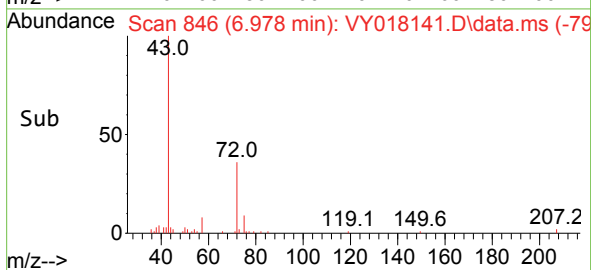
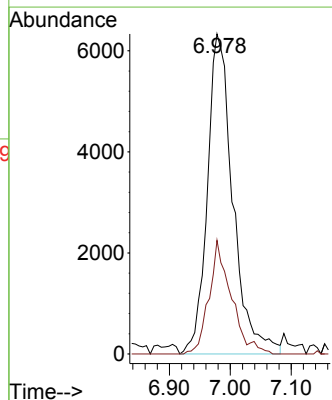
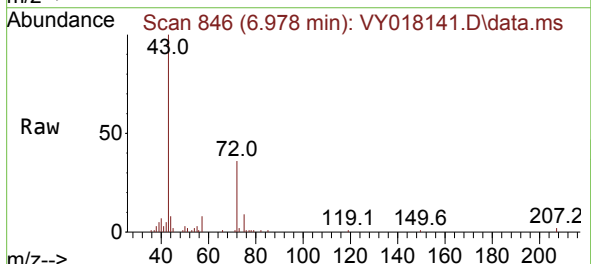


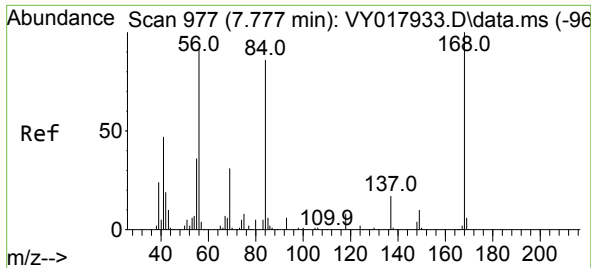
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 23992 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 102.3 | 84.4  | 126.6 |
| 51       | 29.2  | 26.0  | 39.0  |
| 86       | 57.8  | 49.5  | 74.3  |



#25  
2-Butanone  
Concen: 34.934 ug/l  
RT: 6.978 min Scan# 846  
Delta R.T. -0.006 min  
Lab File: VY018141.D  
Acq: 03 May 2024 14:34

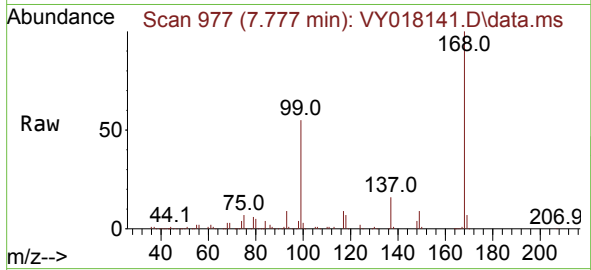
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 18479 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 35.5  | 27.3  | 40.9  |



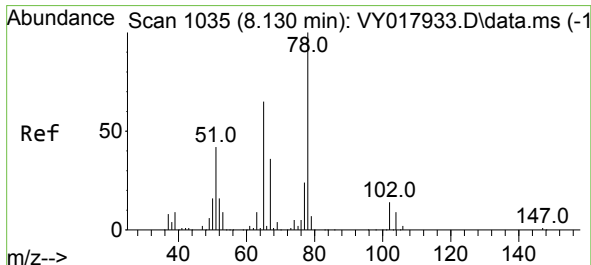
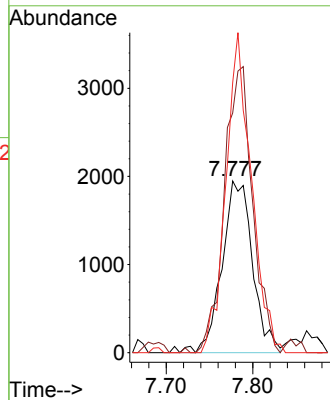
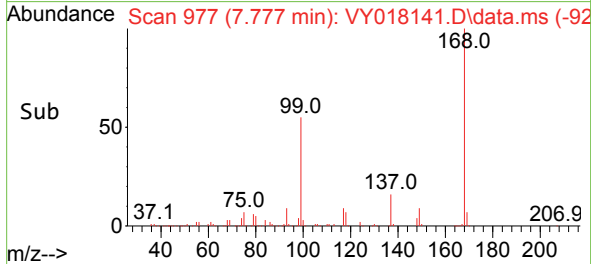


#31  
Cyclohexane  
Concen: 1.396 ug/l  
RT: 7.777 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY018141.D  
Acq: 03 May 2024 14:34

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ClientSampleId :

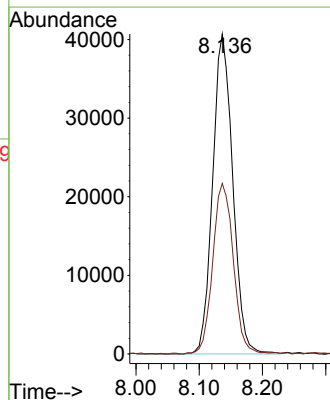
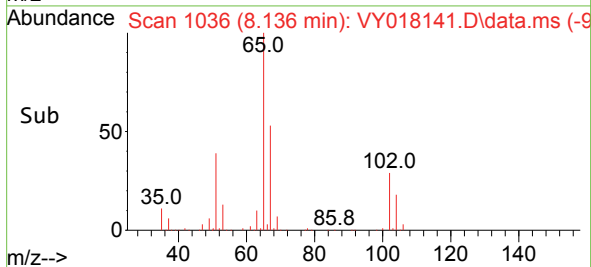
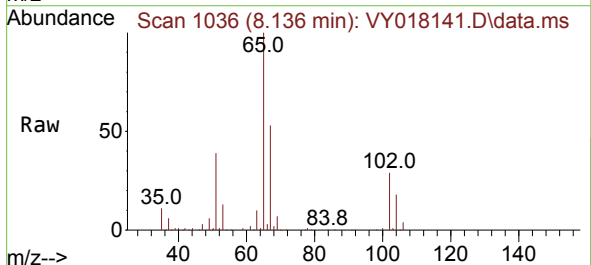


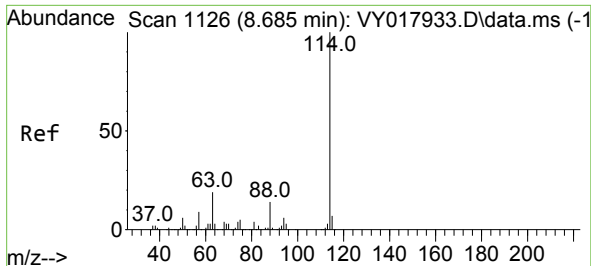
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Ion Ratio Lower Upper  
56 100  
69 139.6 28.7 43.1#  
84 157.2 77.7 116.5#



#33  
1,2-Dichloroethane-d4  
Concen: 50.258 ug/l  
RT: 8.136 min Scan# 1036  
Delta R.T. -0.005 min  
Lab File: VY018141.D  
Acq: 03 May 2024 14:34

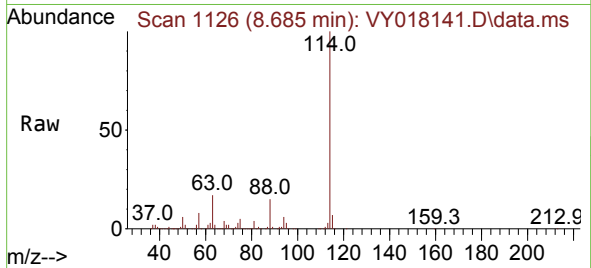
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Ion Ratio Lower Upper  
65 100  
67 54.9 0.0 109.6



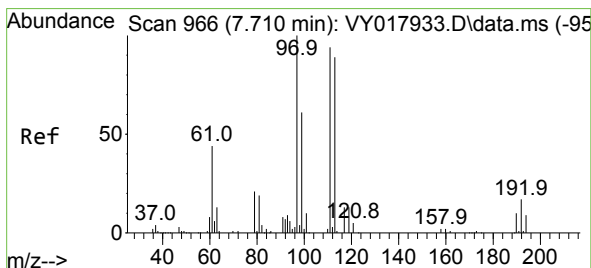
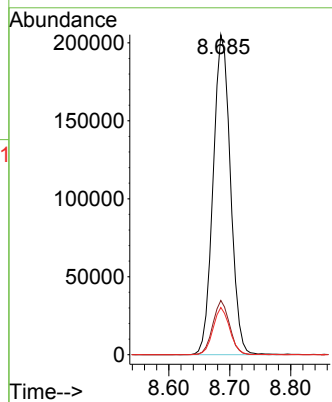
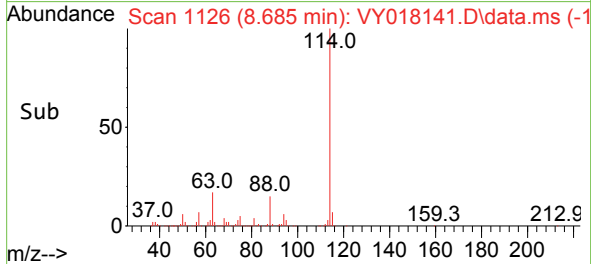


#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.685 min Scan# 1126  
Delta R.T. -0.006 min  
Lab File: VY018141.D  
Acq: 03 May 2024 14:34

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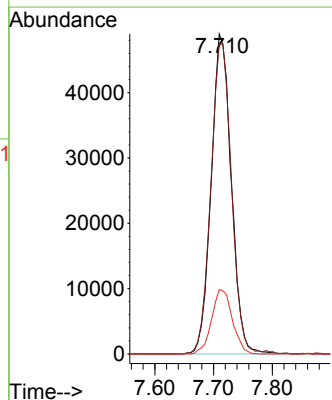
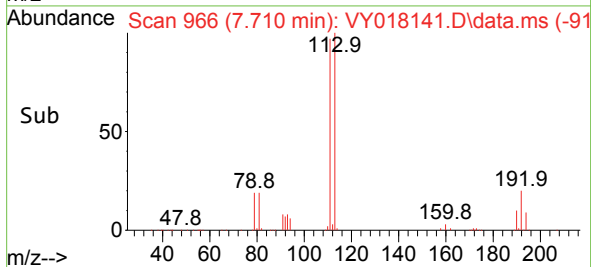
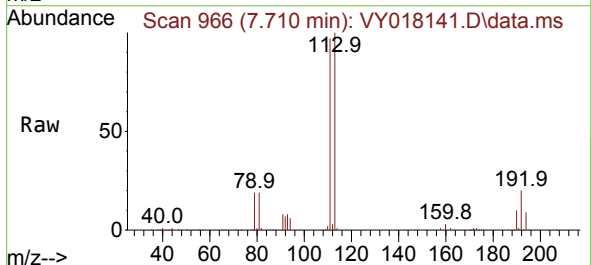


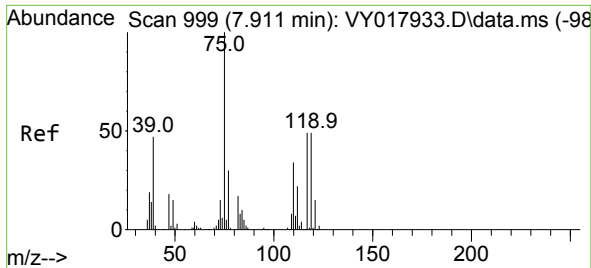
Tgt Ion:114 Resp: 405687  
Ion Ratio Lower Upper  
114 100  
63 17.0 0.0 35.0  
88 14.8 0.0 27.2



#35  
Dibromofluoromethane  
Concen: 49.775 ug/l  
RT: 7.710 min Scan# 966  
Delta R.T. -0.012 min  
Lab File: VY018141.D  
Acq: 03 May 2024 14:34

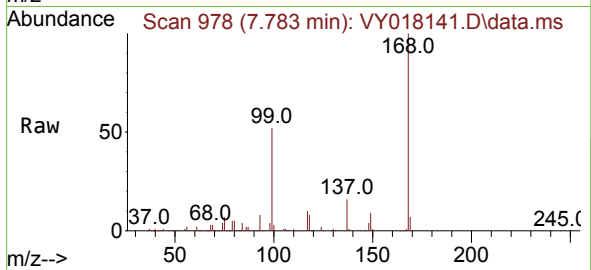
Tgt Ion:113 Resp: 116043  
Ion Ratio Lower Upper  
113 100  
111 99.7 82.2 123.4  
192 20.8 15.9 23.9



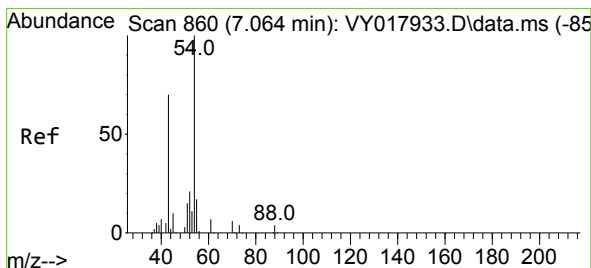
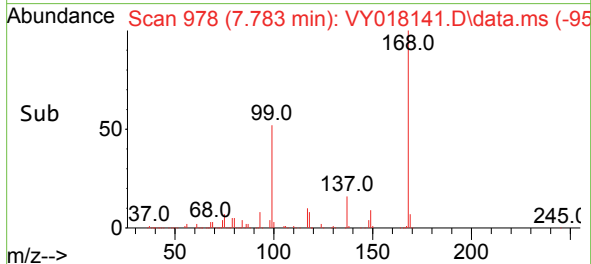
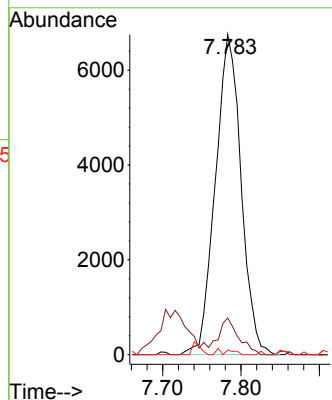


#36  
1,1-Dichloropropene  
Concen: 4.946 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.134 min  
Lab File: VY018141.D  
Acq: 03 May 2024 14:34

Instrument :  
MSVOA\_Y  
ClientSampleId :

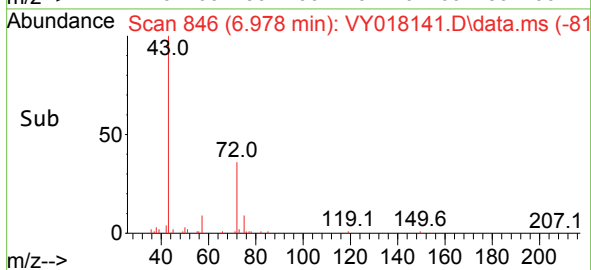
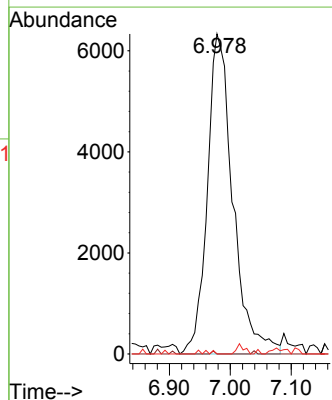
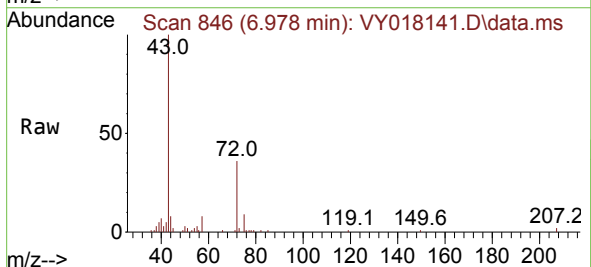


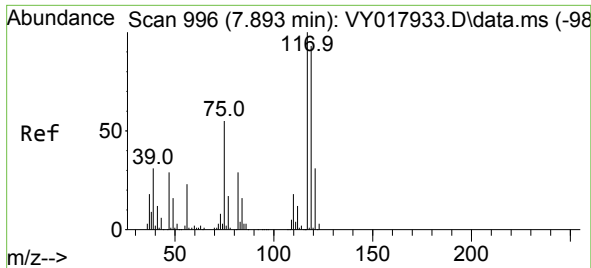
Tgt Ion: 75 Resp: 15393  
Ion Ratio Lower Upper  
75 100  
110 8.9 19.0 57.0#  
77 0.6 25.3 37.9#



#37  
Ethyl Acetate  
Concen: 13.645 ug/l  
RT: 6.978 min Scan# 846  
Delta R.T. -0.098 min  
Lab File: VY018141.D  
Acq: 03 May 2024 14:34

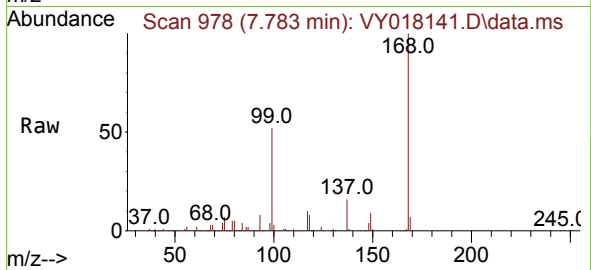
Tgt Ion: 43 Resp: 18479  
Ion Ratio Lower Upper  
43 100  
61 0.1 12.6 19.0#  
70 0.0 7.8 11.8#



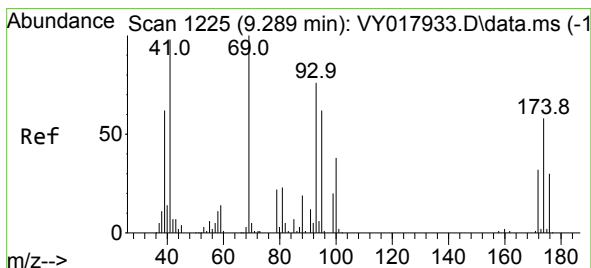
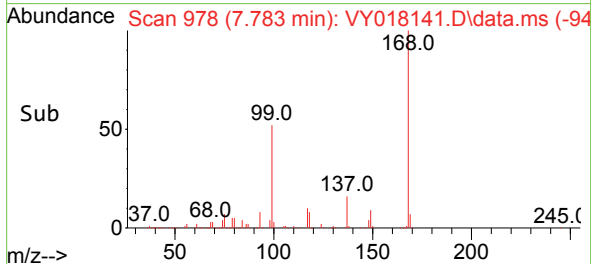
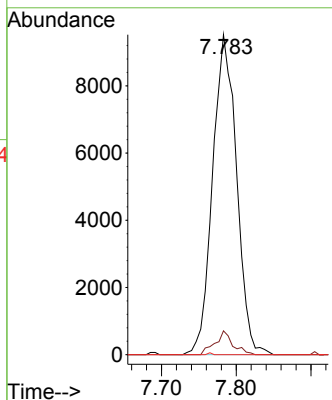


#38  
Carbon Tetrachloride  
Concen: 6.010 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.122 min  
Lab File: VY018141.D  
Acq: 03 May 2024 14:34

Instrument :  
MSVOA\_Y  
ClientSampleId :

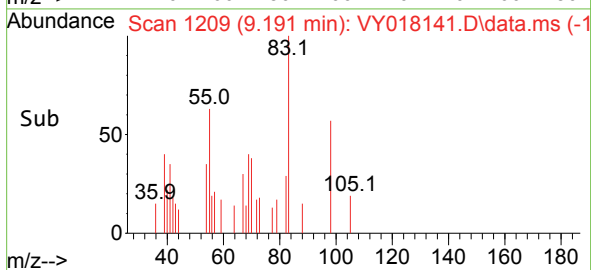
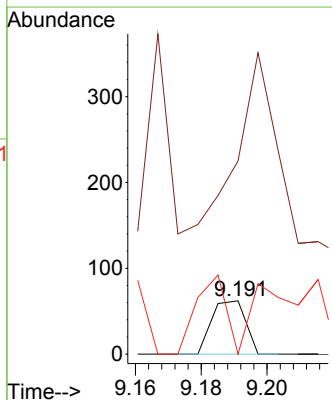
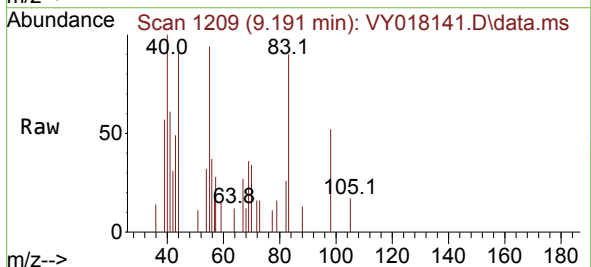


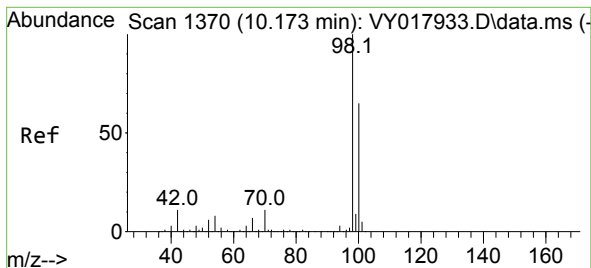
Tgt Ion:117 Resp: 21229  
Ion Ratio Lower Upper  
117 100  
119 7.4 75.8 113.6#  
121 0.0 24.0 36.0#



#49  
1,4-Dioxane  
Concen: 2.990 ug/l  
RT: 9.191 min Scan# 1209  
Delta R.T. -0.110 min  
Lab File: VY018141.D  
Acq: 03 May 2024 14:34

Tgt Ion: 88 Resp: 44  
Ion Ratio Lower Upper  
88 100  
43 688.6 0.0 0.0#  
58 131.8 49.3 73.9#





#50

Toluene-d8

Concen: 48.192 ug/l

RT: 10.179 min Scan# 1370

Delta R.T. -0.000 min

Lab File: VY018141.D

Acq: 03 May 2024 14:34

Instrument :

MSVOA\_Y

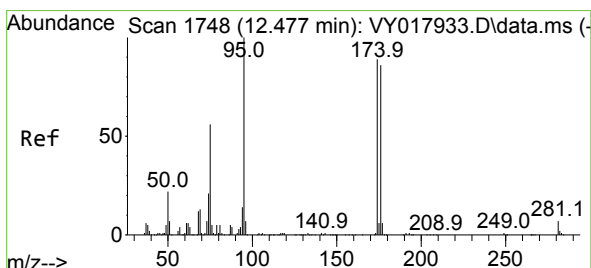
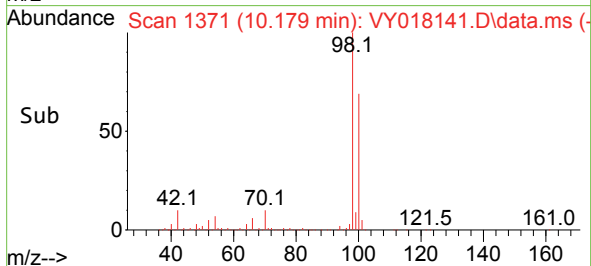
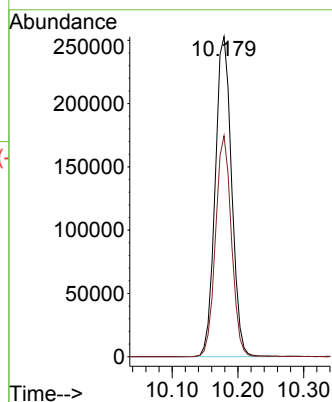
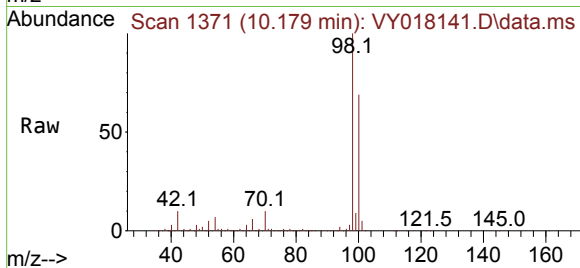
ClientSampleId :

Tgt Ion: 98 Resp: 438614

Ion Ratio Lower Upper

98 100

100 67.0 52.0 78.0



#62

4-Bromofluorobenzene

Concen: 38.307 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VY018141.D

Acq: 03 May 2024 14:34

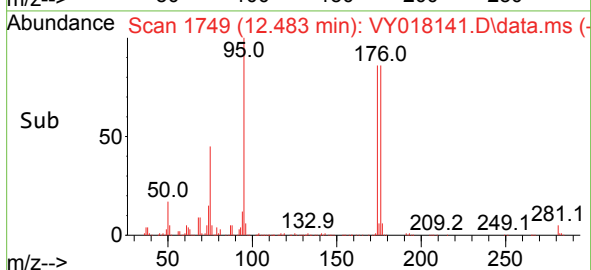
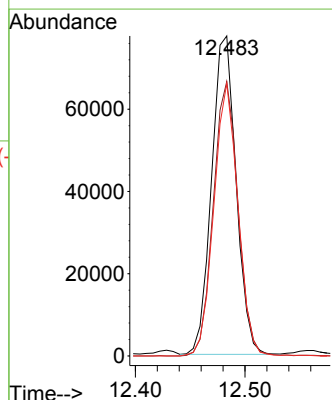
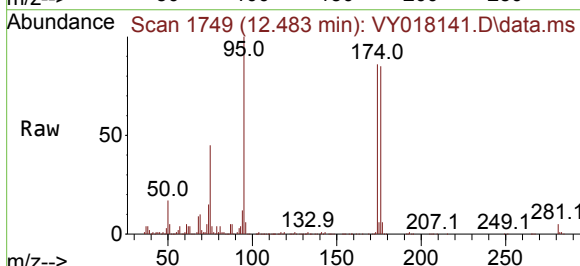
Tgt Ion: 95 Resp: 119984

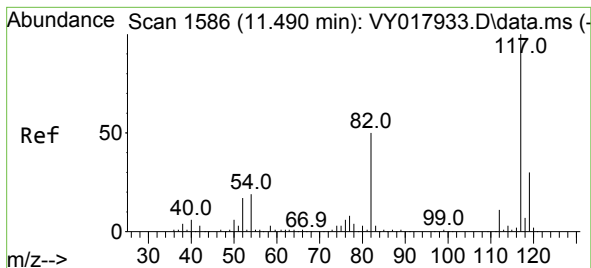
Ion Ratio Lower Upper

95 100

174 87.2 0.0 175.6

176 84.5 0.0 171.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.490 min Scan# 117

Delta R.T. 0.001 min

Lab File: VY018141.D

Acq: 03 May 2024 14:34

Instrument :

MSVOA\_Y

ClientSampleId :

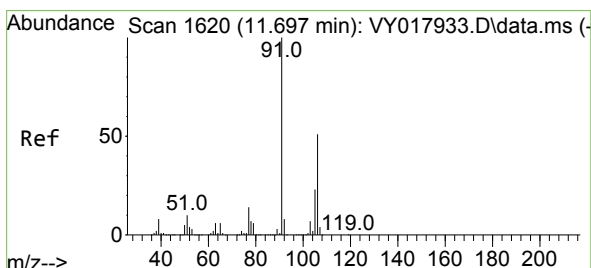
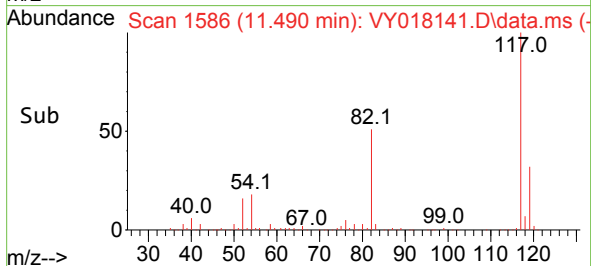
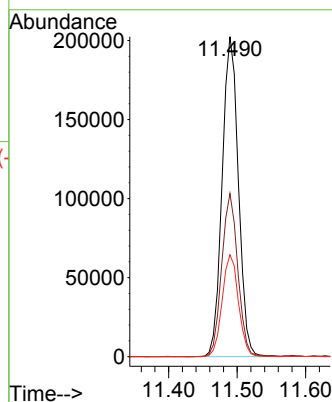
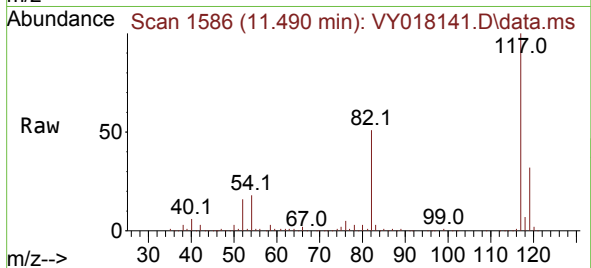
Tgt Ion:117 Resp: 332207

Ion Ratio Lower Upper

117 100

82 51.0 42.4 63.6

119 31.9 25.9 38.9



#68

m/p-Xylenes

Concen: 1.128 ug/l

RT: 11.703 min Scan# 1621

Delta R.T. -0.000 min

Lab File: VY018141.D

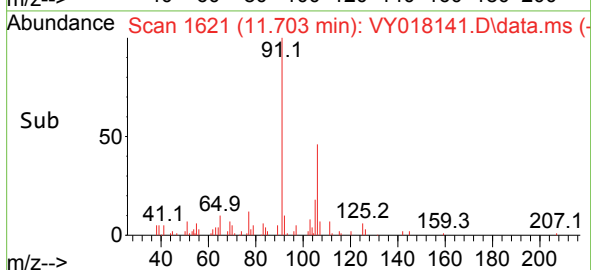
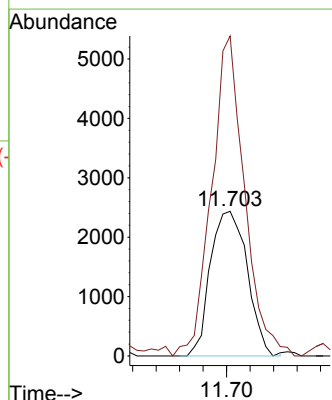
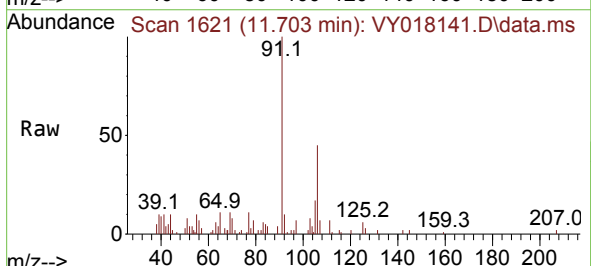
Acq: 03 May 2024 14:34

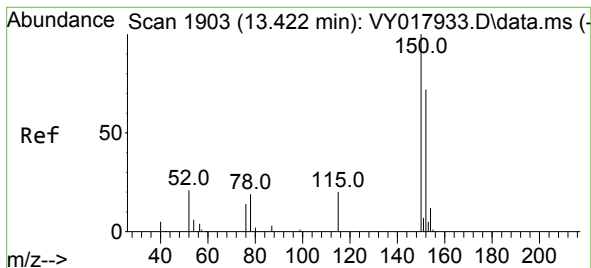
Tgt Ion:106 Resp: 5315

Ion Ratio Lower Upper

106 100

91 197.6 156.0 234.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.428 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VY018141.D

Acq: 03 May 2024 14:34

Instrument :

MSVOA\_Y

ClientSampleId :

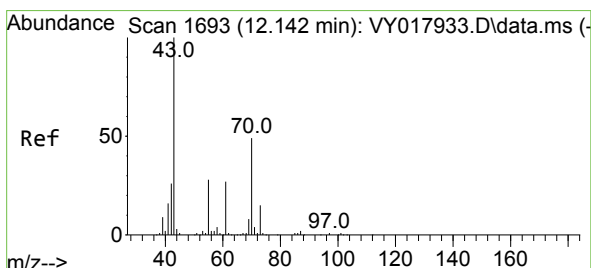
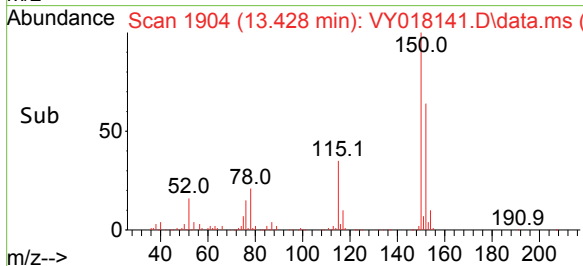
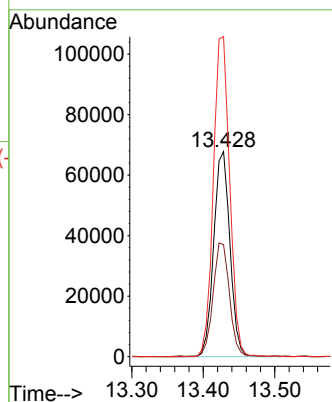
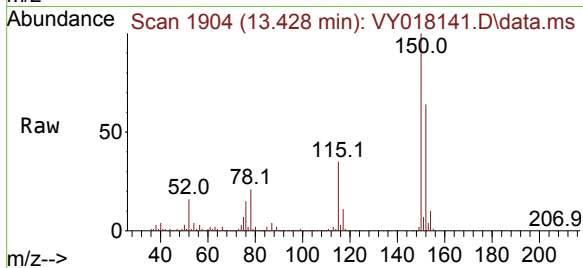
Tgt Ion:152 Resp: 106776

Ion Ratio Lower Upper

152 100

115 56.0 28.2 84.7

150 157.3 0.0 345.6



#74

N-ethyl acetate

Concen: 1.764 ug/l

RT: 12.124 min Scan# 1690

Delta R.T. -0.018 min

Lab File: VY018141.D

Acq: 03 May 2024 14:34

Tgt Ion: 43 Resp: 3111

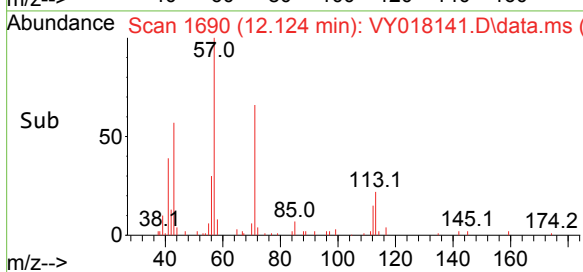
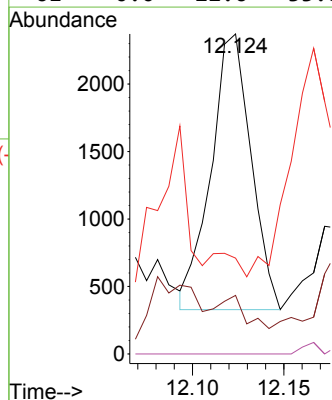
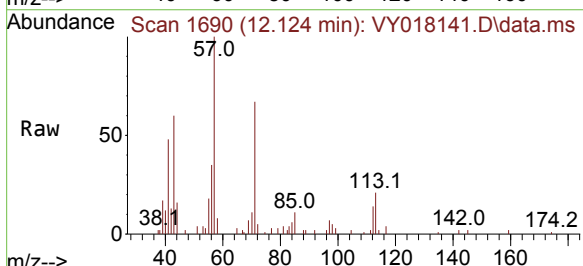
Ion Ratio Lower Upper

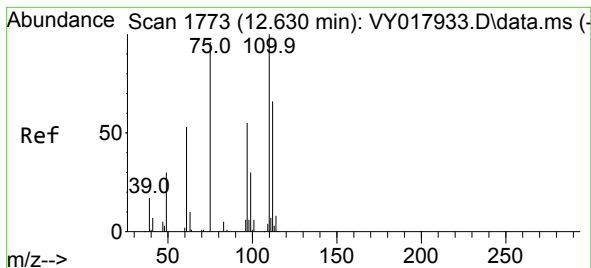
43 100

70 0.0 41.4 62.2#

55 0.0 23.3 34.9#

61 0.0 22.6 33.8#





#76

1,2,3-Trichloropropane

Concen: 65.093 ug/l

RT: 12.477 min Scan# 11

Delta R.T. -0.159 min

Lab File: VY018141.D

Acq: 03 May 2024 14:34

Instrument :

MSVOA\_Y

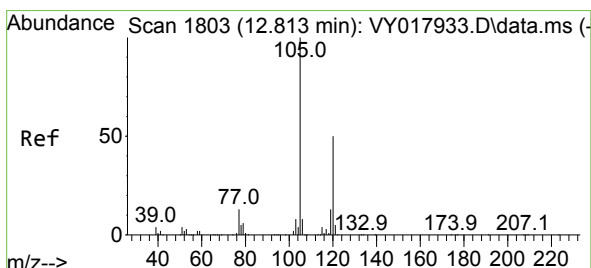
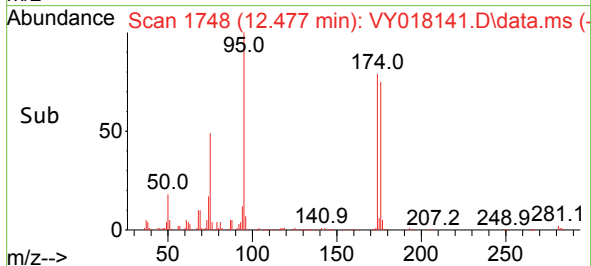
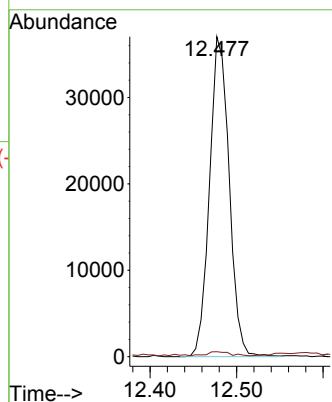
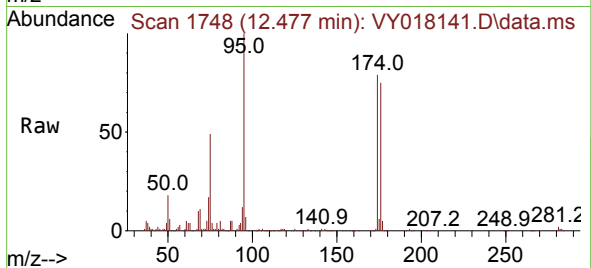
ClientSampleId :

Tgt Ion: 75 Resp: 58331

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 1.255 ug/l

RT: 12.812 min Scan# 1803

Delta R.T. 0.000 min

Lab File: VY018141.D

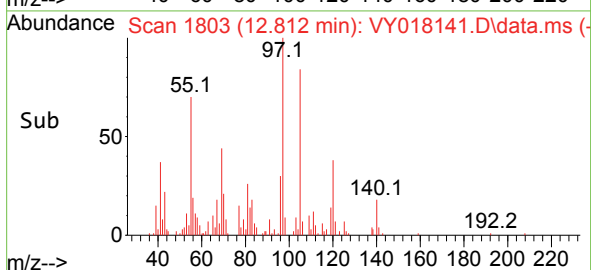
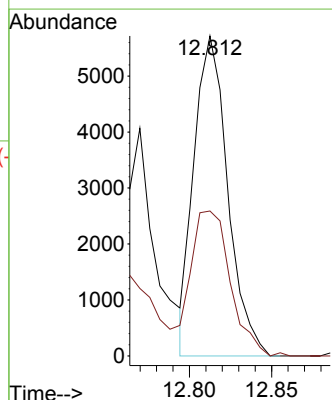
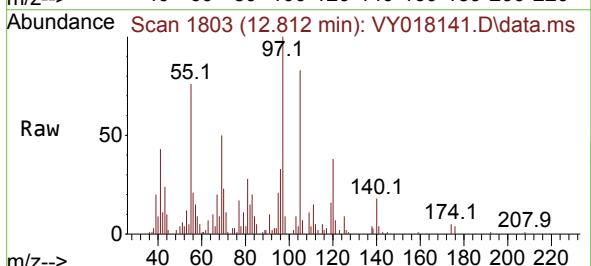
Acq: 03 May 2024 14:34

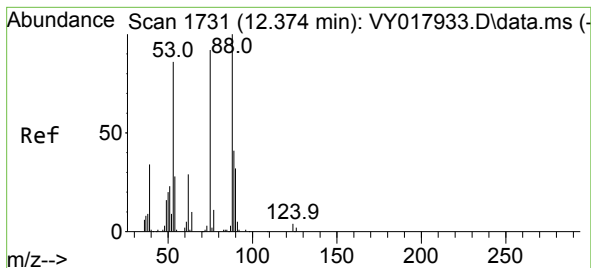
Tgt Ion:105 Resp: 8131

Ion Ratio Lower Upper

105 100

120 54.3 25.1 75.2

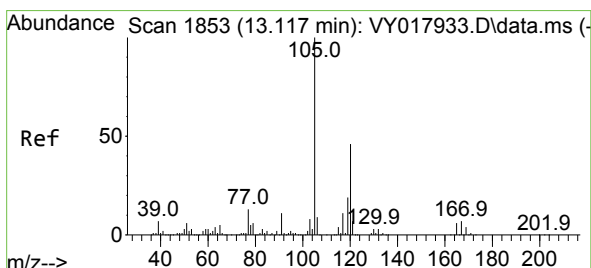
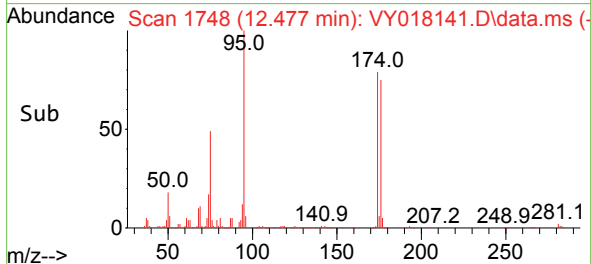
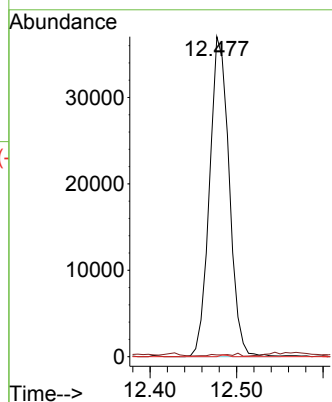
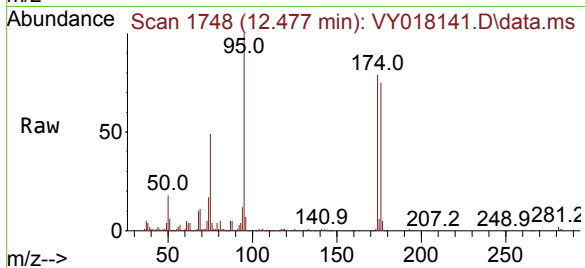




#81  
trans-1,4-Dichloro-2-butene  
Concen: 118.584 ug/l  
RT: 12.477 min Scan# 1731  
Delta R.T. 0.098 min  
Lab File: VY018141.D  
Acq: 03 May 2024 14:34

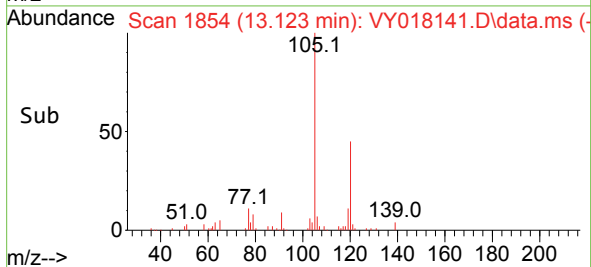
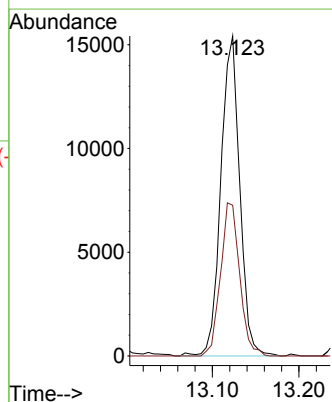
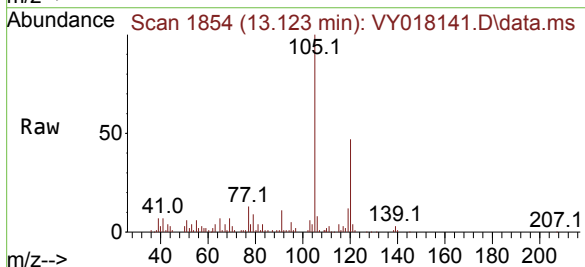
Instrument :  
MSVOA\_Y  
ClientSampleId :

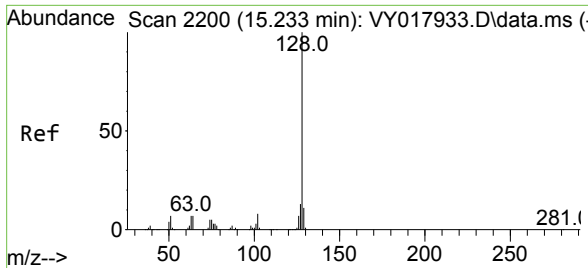
Tgt Ion: 75 Resp: 58331  
Ion Ratio Lower Upper  
75 100  
53 0.3 66.8 100.2#  
89 0.2 35.8 53.6#



#84  
1,2,4-Trimethylbenzene  
Concen: 3.678 ug/l  
RT: 13.123 min Scan# 1854  
Delta R.T. 0.006 min  
Lab File: VY018141.D  
Acq: 03 May 2024 14:34

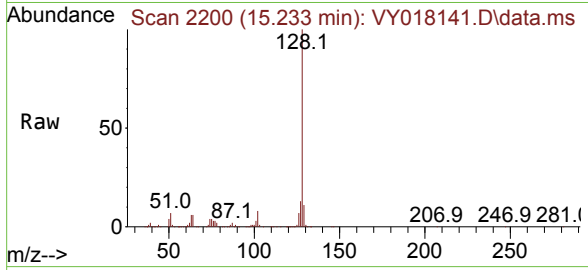
Tgt Ion: 105 Resp: 23339  
Ion Ratio Lower Upper  
105 100  
120 48.6 23.2 69.6





#95  
Naphthalene  
Concen: 62.502 ug/l  
RT: 15.233 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VY018141.D  
Acq: 03 May 2024 14:34

Instrument :  
MSVOA\_Y  
ClientSampleId :



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 128   | Resp: | 204694 |
| Ion      | Ratio | Lower | Upper  |
| 128      | 100   |       |        |
| 127      | 12.5  | 10.6  | 16.0   |
| 129      | 11.2  | 8.6   | 13.0   |

