

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY070720\  
 Data File : VY003127.D  
 Acq On : 07 Jul 2020 15:26  
 Operator : SY/MD  
 Sample : L3217-02RE  
 Misc : 5.03G/5ML/MSVOA Y/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 E3-41-NHS

Quant Time: Jul 08 03:51:19 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y062920S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 30 04:11:35 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 265716   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 418746   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 395623   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 187421   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.14   | 65  | 140841   | 53.37 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 106.74% |      |
| 35) Dibromofluoromethane  | 7.72   | 113 | 134819   | 51.61 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.22% |      |
| 50) Toluene-d8            | 10.18  | 98  | 507885   | 52.19 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.38% |      |
| 62) 4-Bromofluorobenzene  | 12.48  | 95  | 172345   | 50.31 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.62% |      |

## Target Compounds

|                           |       |     |        |         |        | Qvalue |
|---------------------------|-------|-----|--------|---------|--------|--------|
| 3) Chloromethane          | 2.12  | 50  | 5404   | 1.834   | ug/l   | 99     |
| 8) Diethyl Ether          | 3.54  | 74  | 1651   | 1.187   | ug/l # | 42     |
| 11) Tert butyl alcohol    | 4.97  | 59  | 16737  | 62.230  | ug/l # | 87     |
| 13) Acrolein              | 3.74  | 56  | 1558   | 6.450   | ug/l # | 52     |
| 14) Allyl chloride        | 4.42  | 41  | 34417  | 8.552   | ug/l # | 39     |
| 15) Acrylonitrile         | 5.18  | 53  | 6231   | 8.693   | ug/l   | 97     |
| 16) Acetone               | 3.96  | 43  | 181523 | 291.639 | ug/l   | 97     |
| 18) Methyl Acetate        | 4.49  | 43  | 39108  | 23.322  | ug/l   | 96     |
| 20) Methylene Chloride    | 4.72  | 84  | 107977 | 37.073  | ug/l   | 92     |
| 24) 1,1-Dichloroethane    | 6.02  | 63  | 11334  | 2.406   | ug/l   | 98     |
| 25) 2-Butanone            | 7.00  | 43  | 95028  | 96.112  | ug/l   | 97     |
| 29) Tetrahydrofuran       | 7.33  | 42  | 19282  | 29.326  | ug/l # | 58     |
| 30) Chloroform            | 7.52  | 83  | 53462  | 11.454  | ug/l   | 97     |
| 31) Cyclohexane           | 7.80  | 56  | 9727   | 2.096   | ug/l # | 28     |
| 32) 1,1,1-Trichloroethane | 7.71  | 97  | 205349 | 48.197  | ug/l   | 99     |
| 37) Ethyl Acetate         | 7.00  | 43  | 95028  | 39.184  | ug/l # | 71     |
| 38) Carbon Tetrachloride  | 7.80  | 117 | 24190  | 5.764   | ug/l # | 17     |
| 39) Methylcyclohexane     | 9.19  | 83  | 7320   | 1.464   | ug/l   | 89     |
| 40) Benzene               | 8.16  | 78  | 27548  | 2.495   | ug/l   | 94     |
| 41) Methacrylonitrile     | 7.33  | 41  | 89721  | 69.257  | ug/l # | 35     |
| 43) Isopropyl Acetate     | 8.25  | 43  | 7105   | 1.541   | ug/l # | 1      |
| 44) Trichloroethene       | 8.95  | 130 | 12471  | 3.886   | ug/l   | 90     |
| 48) Methyl methacrylate   | 9.27  | 41  | 17376  | 8.280   | ug/l # | 52     |
| 49) 1,4-Dioxane           | 9.30  | 88  | 15994  | 789.632 | ug/l # | 23     |
| 51) 4-Methyl-2-Pentanone  | 10.07 | 43  | 21797  | 9.147   | ug/l   | 97     |
| 52) Toluene               | 10.25 | 92  | 547120 | 78.706  | ug/l   | 100    |
| 55) 1,1,2-Trichloroethane | 10.62 | 97  | 4521   | 1.961   | ug/l # | 20     |
| 59) 2-Hexanone            | 10.83 | 43  | 10317  | 6.194   | ug/l   | 85     |
| 64) Tetrachloroethene     | 10.72 | 164 | 7246   | 2.164   | ug/l   | 94     |
| 67) Ethyl Benzene         | 11.59 | 91  | 48097  | 3.370   | ug/l   | 100    |
| 68) m/p-Xylenes           | 11.69 | 106 | 45433  | 8.554   | ug/l   | 96     |
| 69) o-Xylene              | 12.03 | 106 | 21580  | 4.312   | ug/l   | 96     |
| 73) Isopropylbenzene      | 12.33 | 105 | 61808  | 5.039   | ug/l   | 98     |
| 74) N-amyl acetate        | 12.12 | 43  | 48266  | 12.087  | ug/l # | 61     |

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 E3-41-NHS

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 Quant Title : SW846 8260  
 QLast Update : Tue Jun 30 04:11:35 2020  
 Response via : Initial Calibration

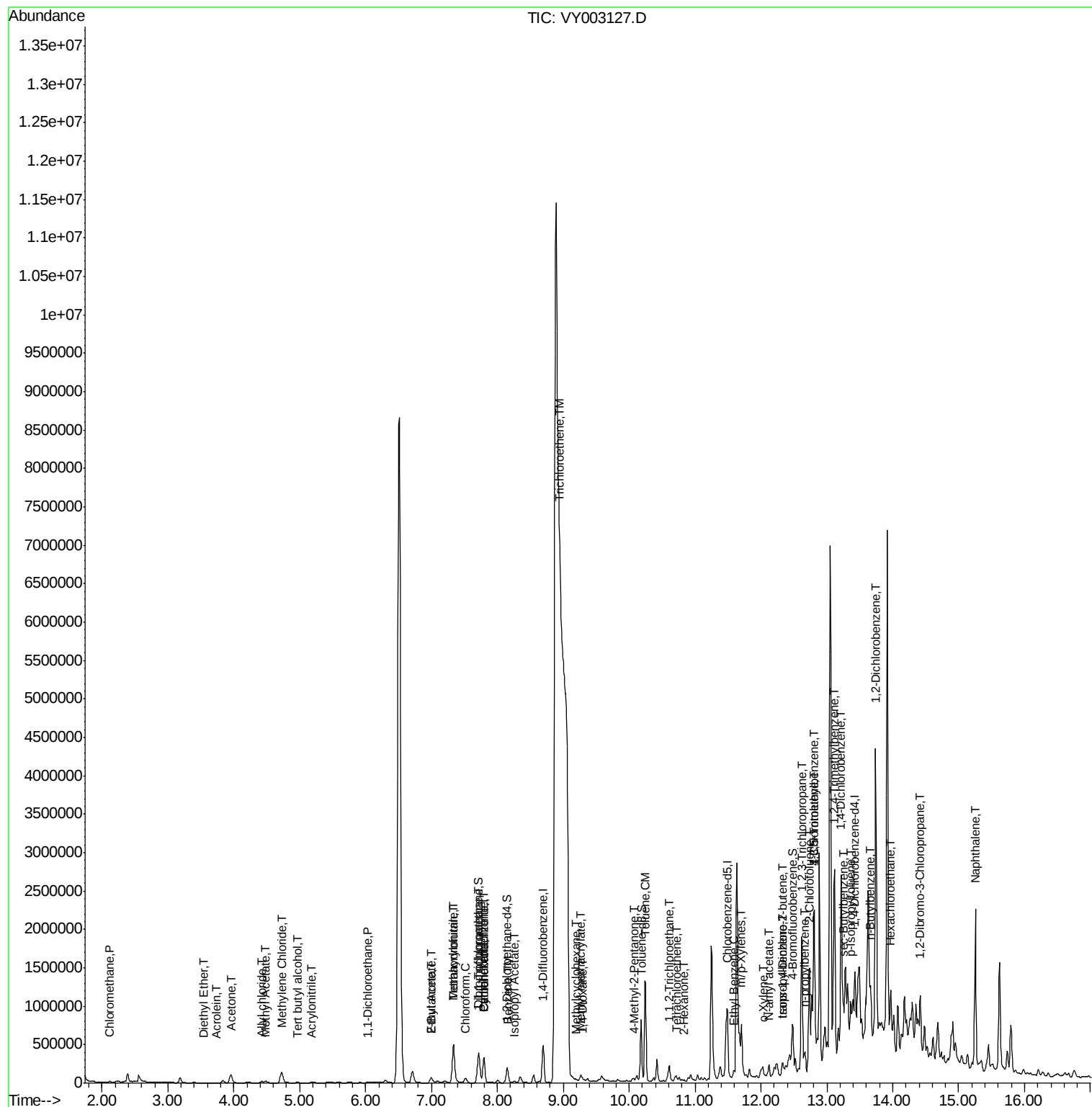
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| -----                          |       |      |          |        |        |          |
| 76) 1,2,3-Trichloropropane     | 12.62 | 75   | 11539    | 6.221  | uq/l # | 100      |
| 78) n-propylbenzene            | 12.67 | 91   | 190856   | 12.938 | uq/l   | 100      |
| 79) 2-Chlorotoluene            | 12.74 | 91   | 120416   | 14.624 | uq/l # | 41       |
| 80) 1,3,5-Trimethylbenzene     | 12.81 | 105  | 365777   | 35.537 | uq/l   | 97       |
| 81) trans-1,4-Dichloro-2-buten | 12.33 | 75   | 4760     | 4.993  | uq/l # | 27       |
| 82) 4-Chlorotoluene            | 12.81 | 91   | 36375    | 4.243  | uq/l # | 48       |
| 84) 1,2,4-Trimethylbenzene     | 13.12 | 105  | 817754   | 78.845 | uq/l   | 100      |
| 85) sec-Butylbenzene           | 13.25 | 105  | 87900    | 7.056  | uq/l # | 74       |
| 86) p-Isopropyltoluene         | 13.37 | 119  | 81352    | 7.048  | uq/l   | 100      |
| 88) 1,4-Dichlorobenzene        | 13.22 | 146  | 9939     | 1.717  | uq/l # | 42       |
| 89) n-Butylbenzene             | 13.66 | 91   | 105009   | 9.508  | uq/l # | 1        |
| 90) Hexachloroethane           | 13.97 | 117  | 20920    | 9.127  | uq/l # | 5        |
| 91) 1,2-Dichlorobenzene        | 13.74 | 146  | 462853   | 87.861 | uq/l   | 93       |
| 92) 1,2-Dibromo-3-Chloropropan | 14.41 | 75   | 11541    | 26.338 | uq/l # | 4        |
| 95) Naphthalene                | 15.24 | 128  | 42271    | 5.912  | uq/l # | 1        |
| -----                          |       |      |          |        |        |          |

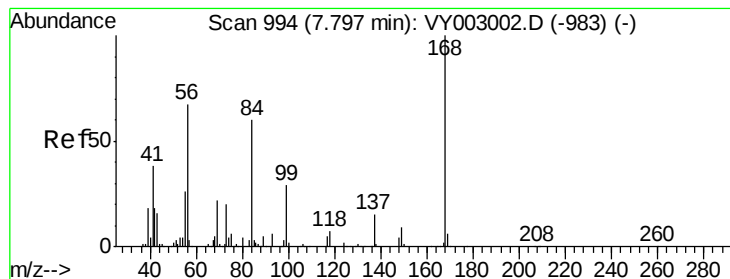
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Jun 30 04:11:35 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.00 min

Lab File: VY003127.D

Acq: 07 Jul 2020 15:26

Instrument :

MSVOA\_Y

ClientSampled :

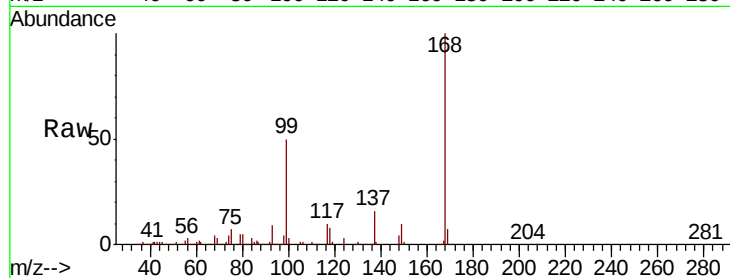
E3-41-NHS

Tot Ion:168 Resp: 265716

Ion Ratio Lower Upper

168 100

99 50.1 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): VY003127.D (-945) (-)

Ion 98.90 (98.60 to 99.60): VY003127.D (-945) (-)

7.80

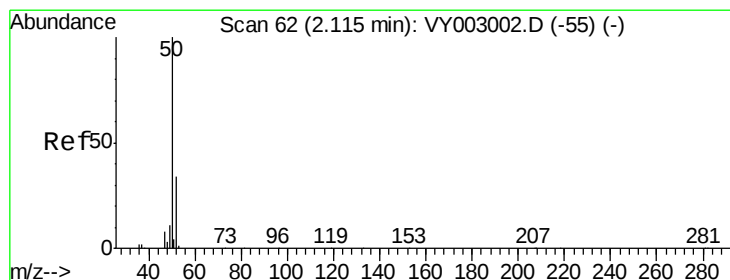
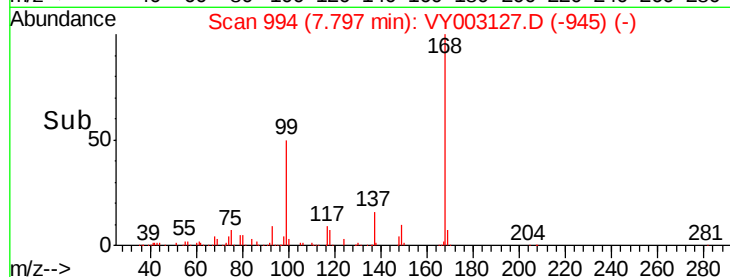
100000

50000

0

7.70 7.80 7.90

Time-->



#3

Chloromethane

Concen: 1.834 ug/l

RT: 2.12 min Scan# 62

Delta R.T. 0.00 min

Lab File: VY003127.D

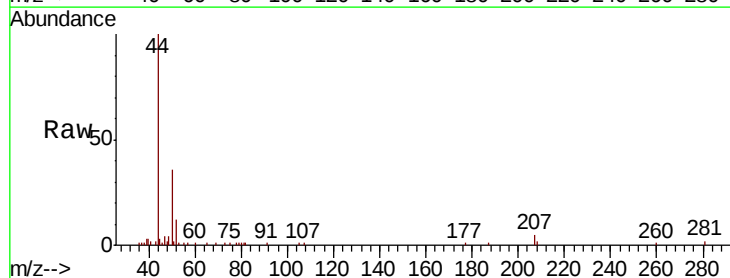
Acq: 07 Jul 2020 15:26

Tgt Ion: 50 Resp: 5404

Ion Ratio Lower Upper

50 100

52 33.3 26.9 40.3



Abundance Ion 49.90 (49.60 to 50.60): VY003127.D (-13) (-)

Ion 51.90 (51.60 to 52.60): VY003127.D (-13) (-)

2.12

4000

3000

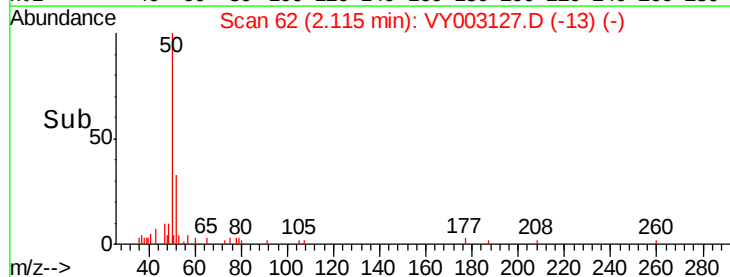
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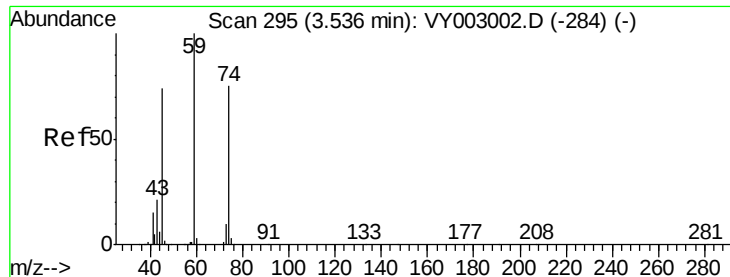
1000

0

2.05 2.10 2.15 2.20

Time-->





#8

Diethyl Ether

Concen: 1.187 ug/l

RT: 3.54 min Scan# 296

Delta R.T. 0.01 min

Lab File: VY003127.D

Acq: 07 Jul 2020 15:26

Instrument :

MSVOA\_Y

ClientSampleId :

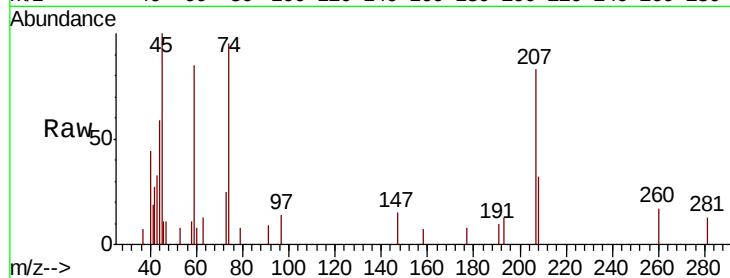
E3-41-NHS

Tot Ion: 74 Resp: 1651

Ion Ratio Lower Upper

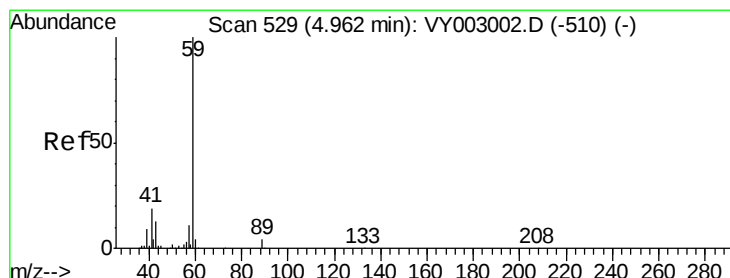
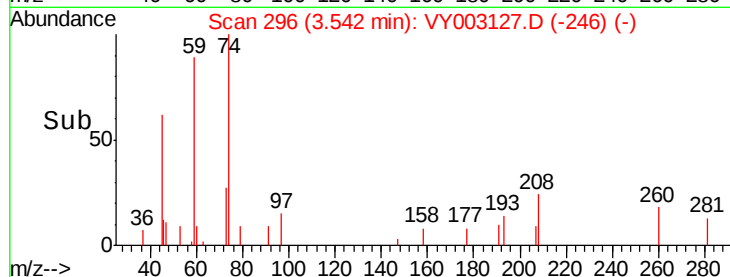
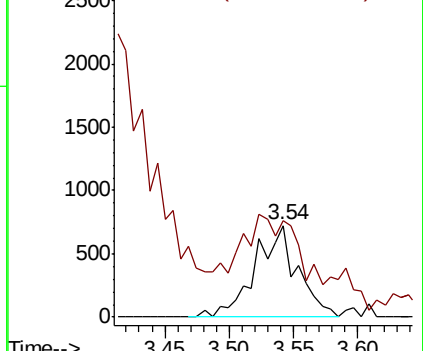
74 100

45 41.1 49.3 147.9#



Abundance Ion 74.00 (73.70 to 74.70): VY0

Ion 45.00 (44.70 to 45.70): VY0



#11

Tert butyl alcohol

Concen: 62.230 ug/l

RT: 4.97 min Scan# 530

Delta R.T. 0.01 min

Lab File: VY003127.D

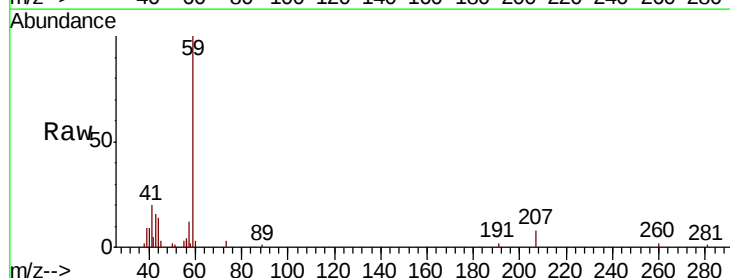
Acq: 07 Jul 2020 15:26

Tgt Ion: 59 Resp: 16737

Ion Ratio Lower Upper

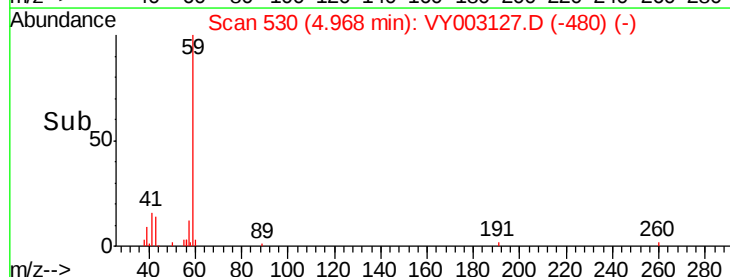
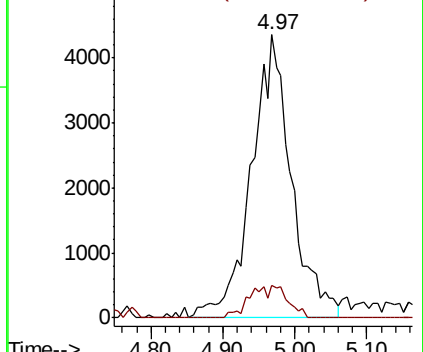
59 100

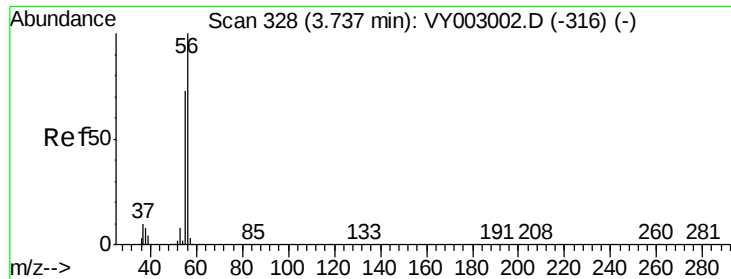
57 5.2 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VY0

Ion 57.00 (56.70 to 57.70): VY0





#13

Acrolein

Concen: 6.450 ug/l

RT: 3.74 min Scan# 329

Delta R.T. 0.01 min

Lab File: VY003127.D

Acq: 07 Jul 2020 15:26

Instrument :

MSVOA\_Y

ClientSampleId :

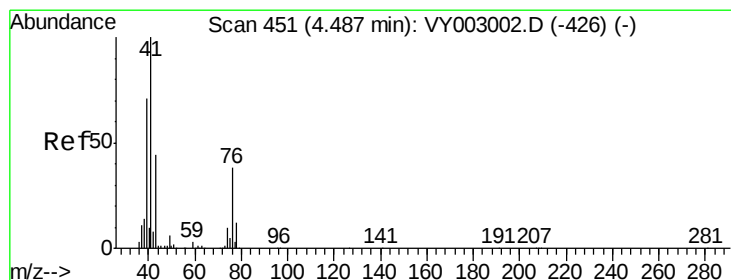
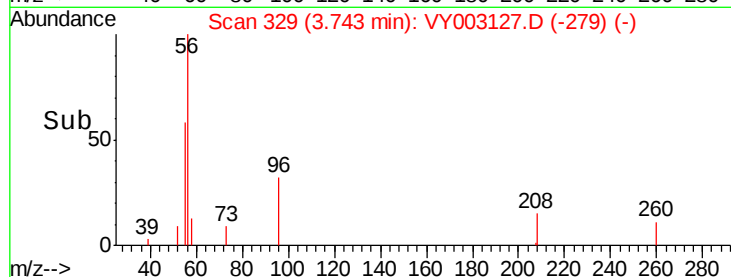
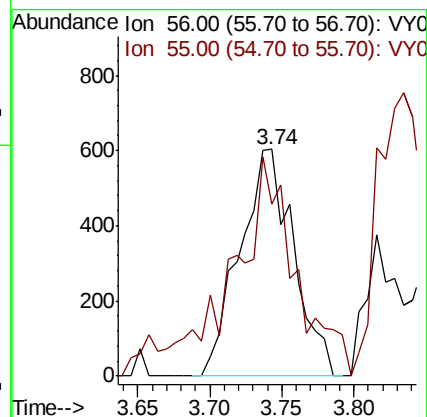
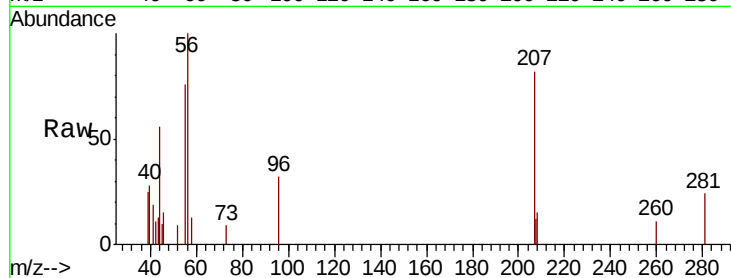
E3-41-NHS

Tot Ion: 56 Resp: 1558

Ion Ratio Lower Upper

56 100

55 110.3 56.4 84.6#



#14

Allyl chloride

Concen: 8.552 ug/l

RT: 4.42 min Scan# 440

Delta R.T. -0.07 min

Lab File: VY003127.D

Acq: 07 Jul 2020 15:26

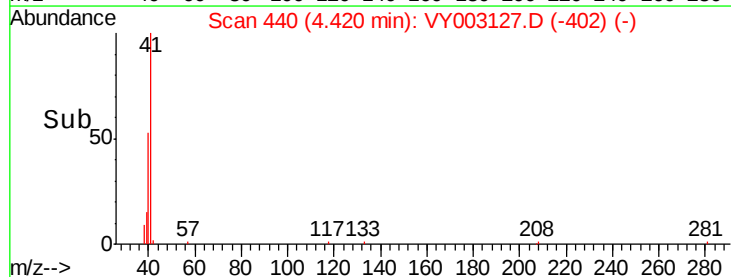
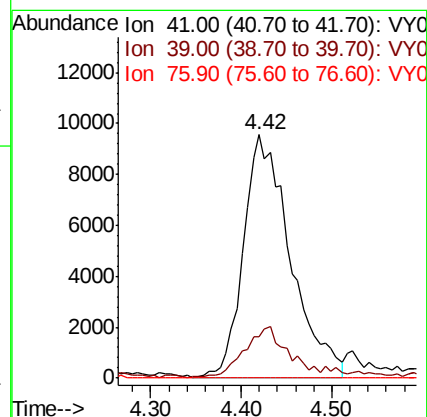
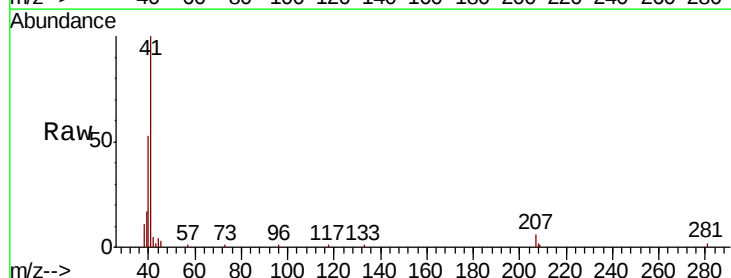
Tgt Ion: 41 Resp: 34417

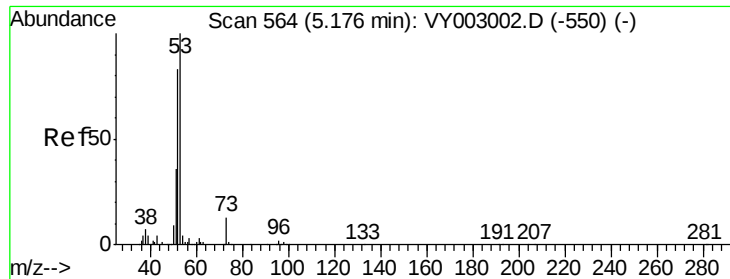
Ion Ratio Lower Upper

41 100

39 19.7 55.6 83.4#

76 0.0 28.6 43.0#

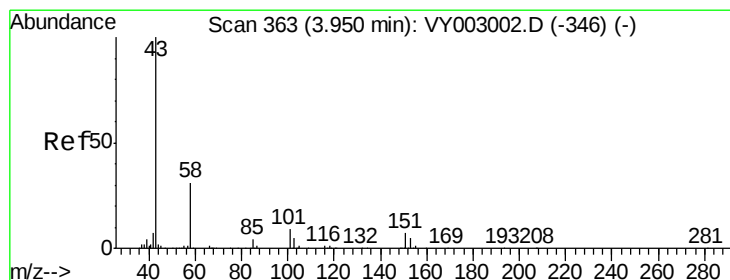
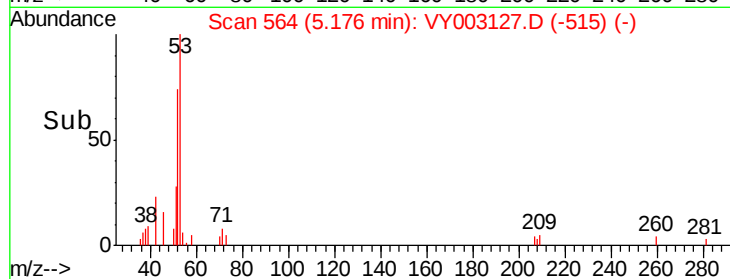
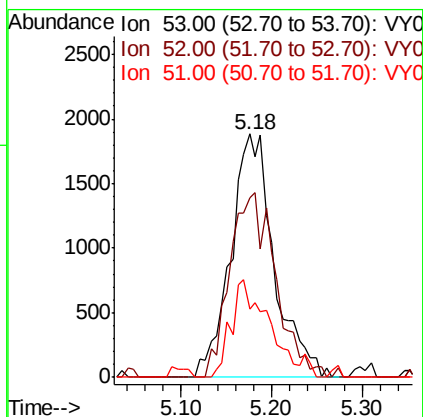
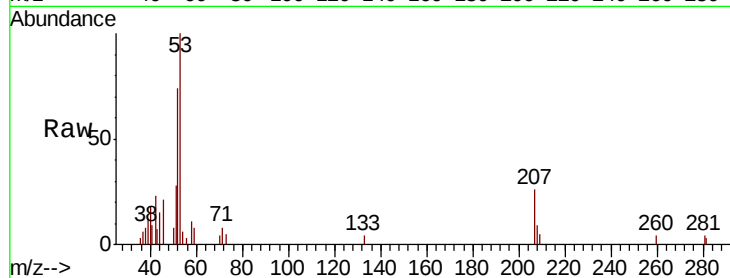




#15  
 Acrylonitrile  
 Concen: 8.693 ug/l  
 RT: 5.18 min Scan# 564  
 Delta R.T. 0.00 min  
 Lab File: VY003127.D  
 Acq: 07 Jul 2020 15:26

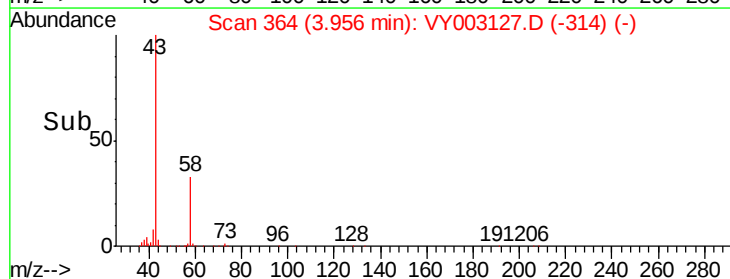
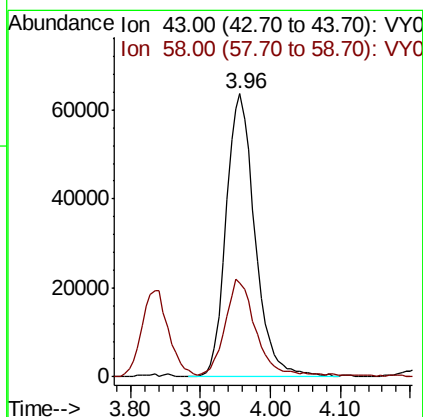
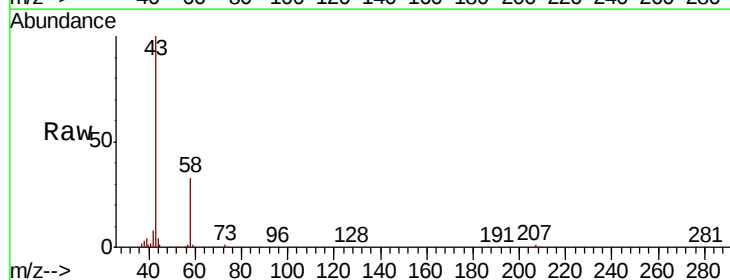
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 E3-41-NHS

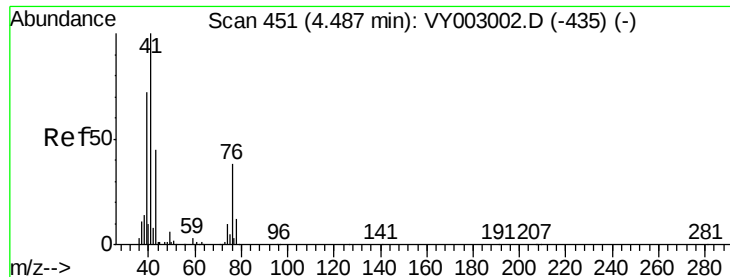
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 53    | Resp: | 6231  |
| Ion      | Ratio | Lower | Upper |
| 53       | 100   |       |       |
| 52       | 80.5  | 66.2  | 99.2  |
| 51       | 34.2  | 29.5  | 44.3  |



#16  
 Acetone  
 Concen: 291.639 ug/l  
 RT: 3.96 min Scan# 364  
 Delta R.T. 0.01 min  
 Lab File: VY003127.D  
 Acq: 07 Jul 2020 15:26

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 181523 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 58       | 32.5  | 24.7  | 37.1   |

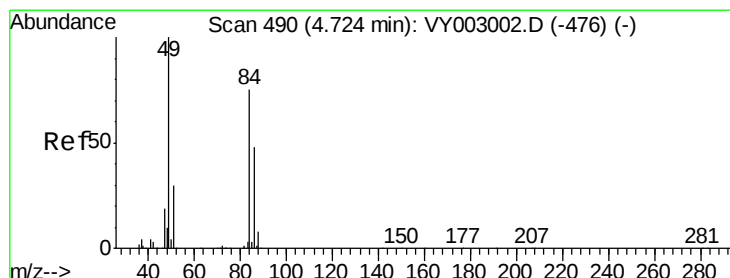
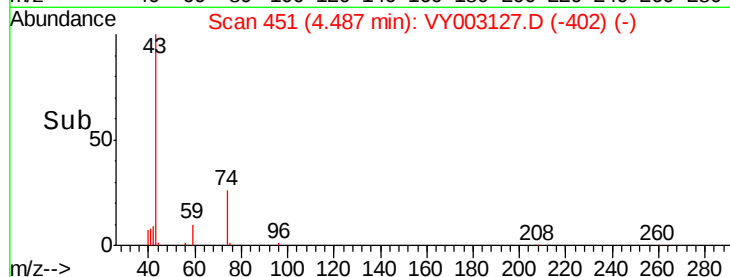
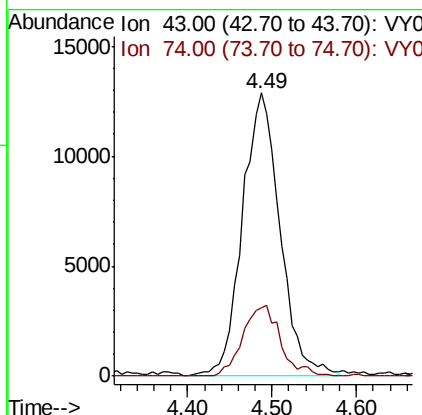
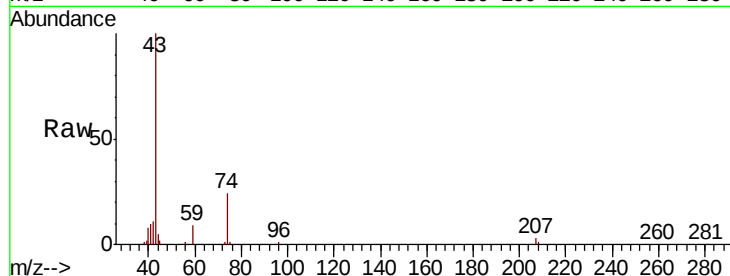




#18  
Methyl Acetate  
Concen: 23.322 ug/l  
RT: 4.49 min Scan# 451  
Delta R.T. 0.00 min  
Lab File: VY003127.D  
Acq: 07 Jul 2020 15:26

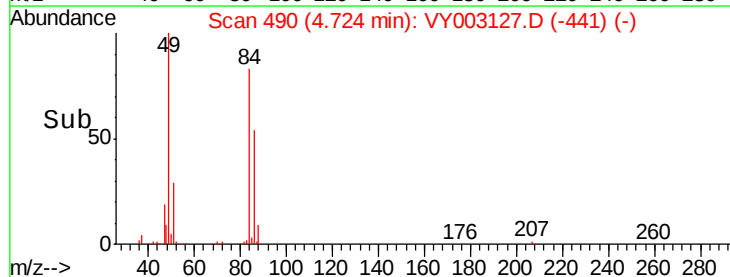
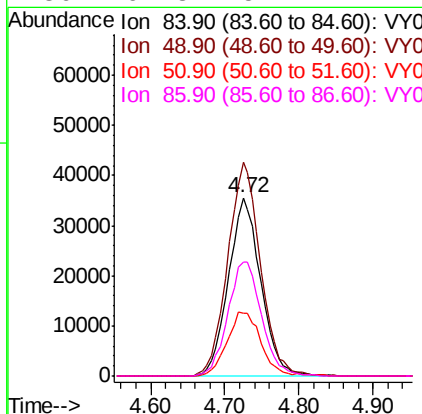
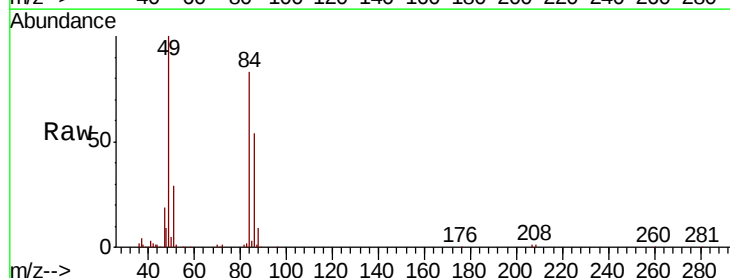
Instrument :  
MSVOA\_Y  
ClientSampled :  
E3-41-NHS

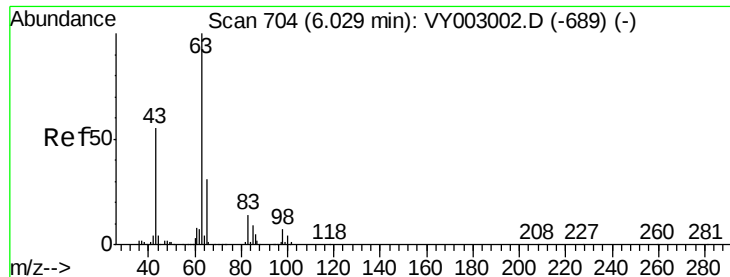
Tot Ion: 43 Resp: 39108  
Ion Ratio Lower Upper  
43 100  
74 24.8 18.2 27.4



#20  
Methylene Chloride  
Concen: 37.073 ug/l  
RT: 4.72 min Scan# 490  
Delta R.T. 0.00 min  
Lab File: VY003127.D  
Acq: 07 Jul 2020 15:26

Tgt Ion: 84 Resp: 107977  
Ion Ratio Lower Upper  
84 100  
49 119.8 106.8 160.2  
51 35.3 32.0 48.0  
86 64.3 51.4 77.2





#24

1,1-Dichloroethane

Concen: 2.406 ug/l

RT: 6.02 min Scan# 703

Delta R.T. -0.01 min

Lab File: VY003127.D

Acq: 07 Jul 2020 15:26

Instrument :

MSVOA\_Y

ClientSampleId :

E3-41-NHS

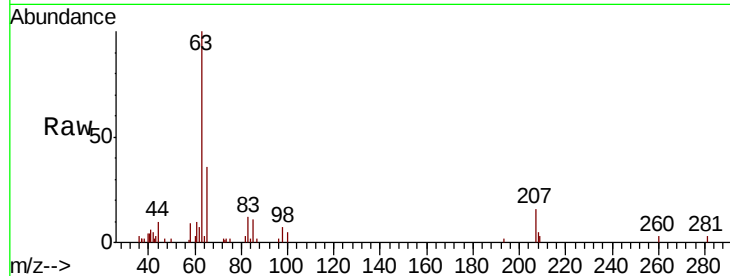
Tot Ion: 63 Resp: 11334

Ion Ratio Lower Upper

63 100

98 7.3 3.4 10.1

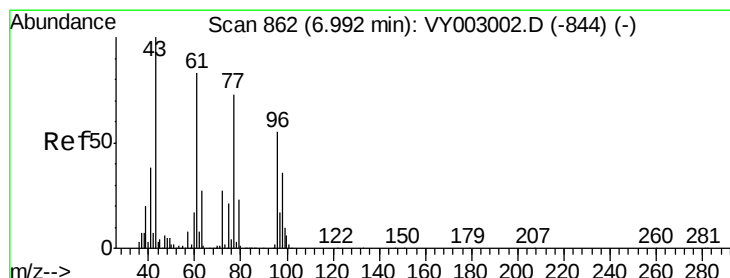
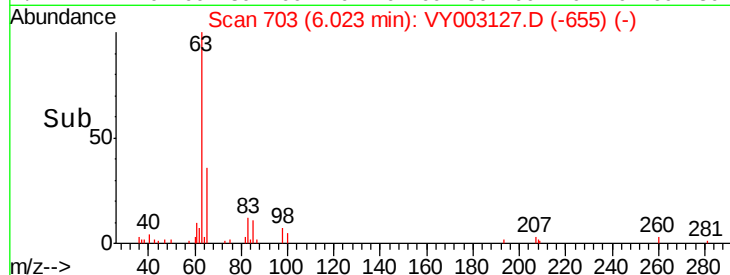
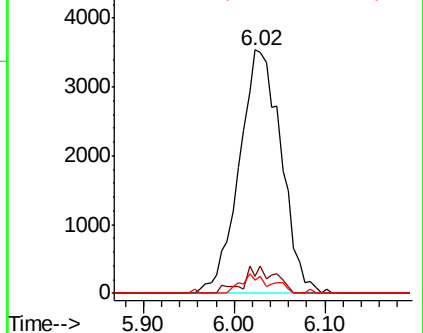
100 5.4 2.3 6.8



Abundance Ion 62.90 (62.60 to 63.60): VY0

Ion 97.90 (97.60 to 98.60): VY0

Ion 99.90 (99.60 to 100.60): VY0



#25

2-Butanone

Concen: 96.112 ug/l

RT: 7.00 min Scan# 863

Delta R.T. 0.01 min

Lab File: VY003127.D

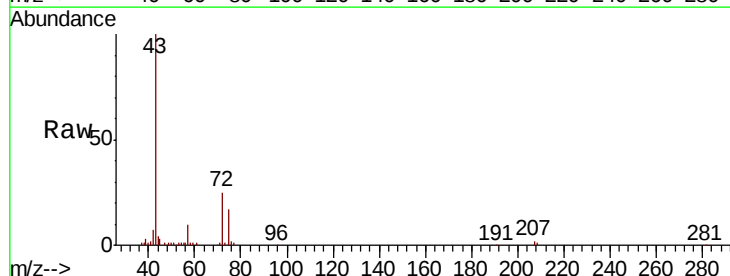
Acq: 07 Jul 2020 15:26

Tgt Ion: 43 Resp: 95028

Ion Ratio Lower Upper

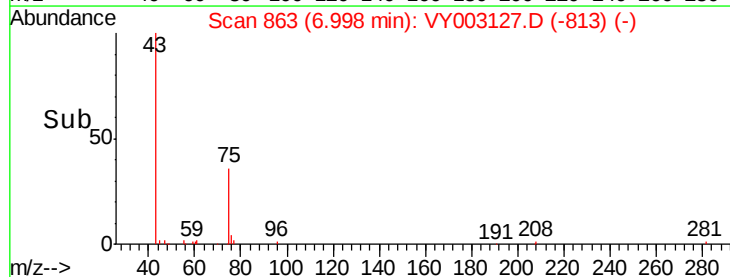
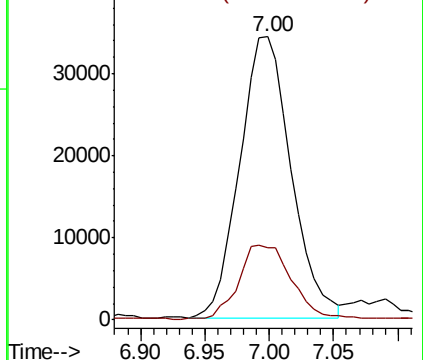
43 100

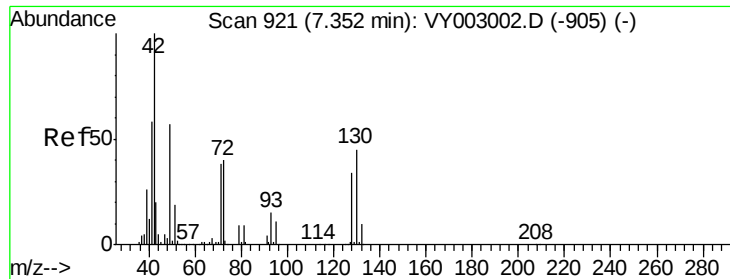
72 25.1 21.4 32.0



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0

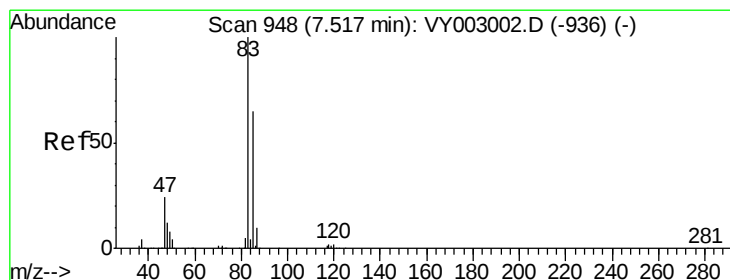
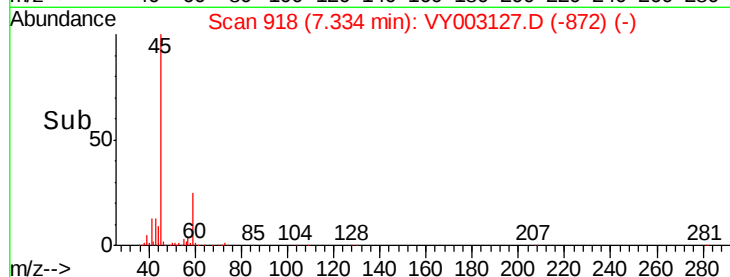
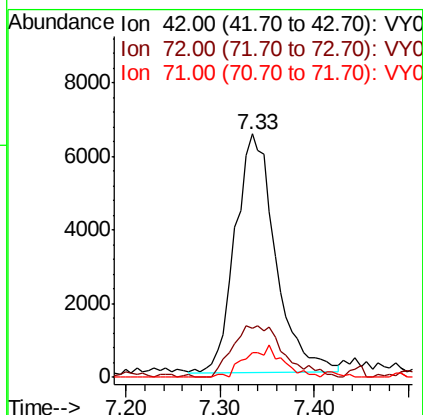
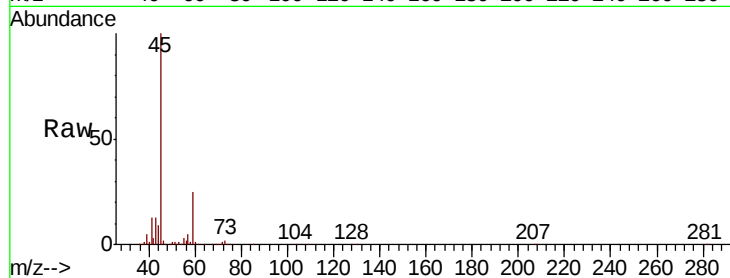




#29  
Tetrahydrofuran  
Concen: 29.326 ug/l  
RT: 7.33 min Scan# 918  
Delta R.T. -0.02 min  
Lab File: VY003127.D  
Acq: 07 Jul 2020 15:26

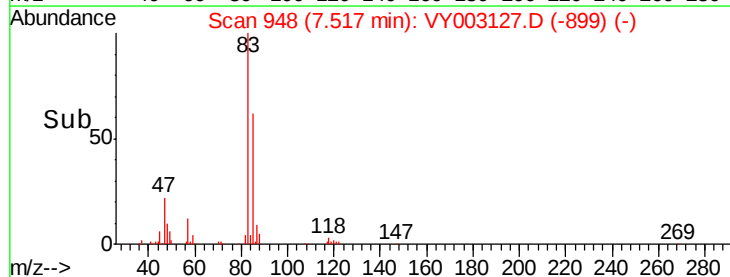
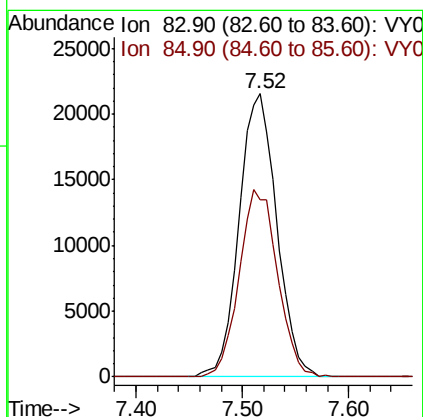
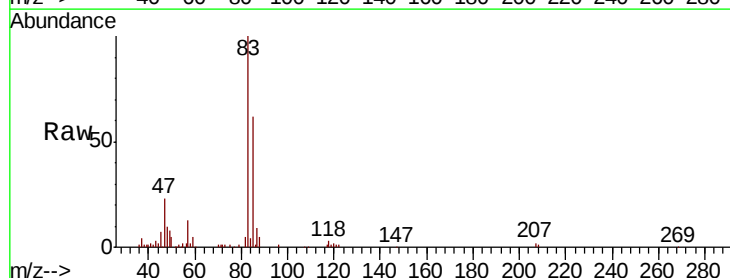
Instrument :  
MSVOA\_Y  
ClientSampleId :  
E3-41-NHS

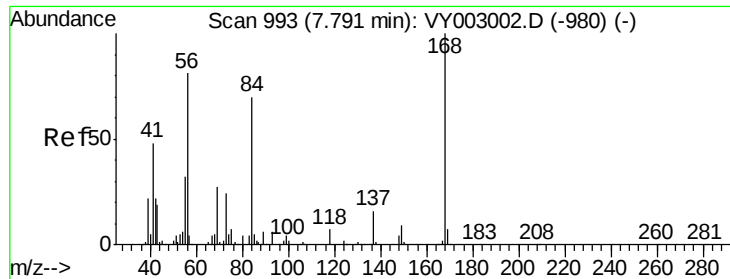
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 27.4  | 32.9  | 49.3# |
| 71      | 0.0   | 31.2  | 46.8# |



#30  
Chloroform  
Concen: 11.454 ug/l  
RT: 7.52 min Scan# 948  
Delta R.T. 0.00 min  
Lab File: VY003127.D  
Acq: 07 Jul 2020 15:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 85      | 62.4  | 51.7  | 77.5  |





#31

Cyclohexane

Concen: 2.096 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.01 min

Lab File: VY003127.D

Acq: 07 Jul 2020 15:26

Instrument :

MSVOA\_Y

ClientSampleId :

E3-41-NHS

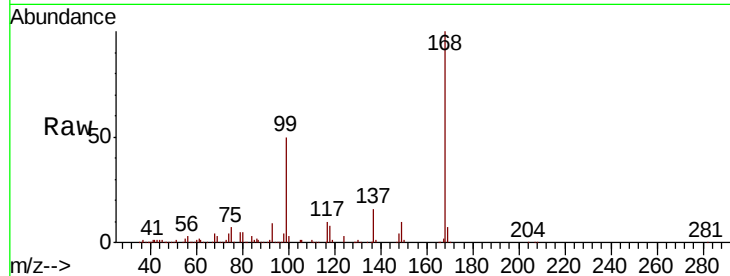
Tot Ion: 56 Resp: 9727

Ion Ratio Lower Upper

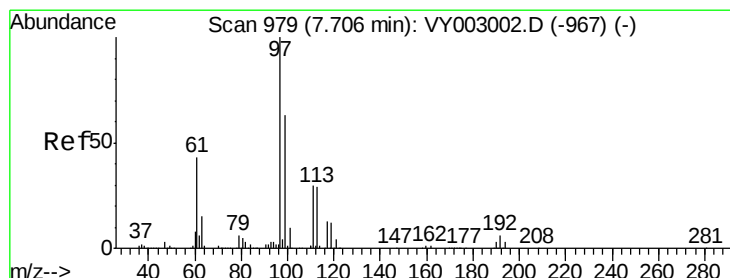
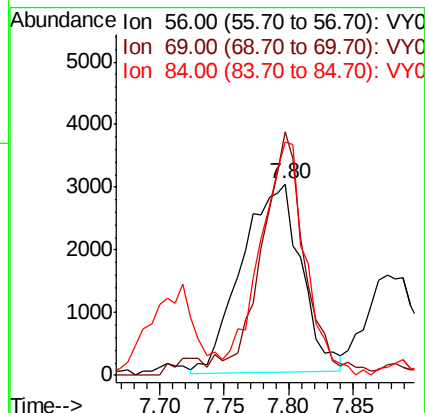
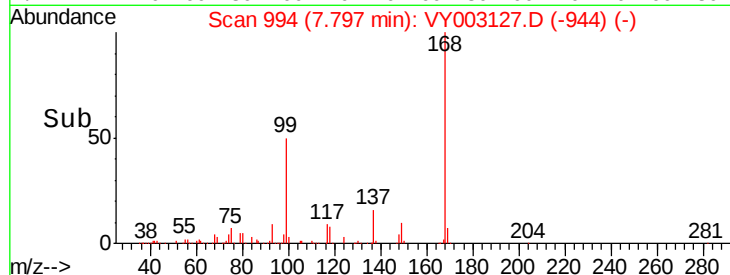
56 100

69 125.5 27.0 40.4#

84 118.1 68.1 102.1#



Abundance Ion 56.00 (55.70 to 56.70): VY0  
Ion 69.00 (68.70 to 69.70): VY0  
Ion 84.00 (83.70 to 84.70): VY0



#32

1,1,1-Trichloroethane

Concen: 48.197 ug/l

RT: 7.71 min Scan# 979

Delta R.T. 0.00 min

Lab File: VY003127.D

Acq: 07 Jul 2020 15:26

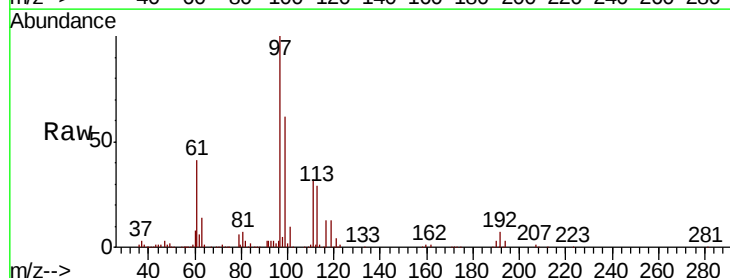
Tgt Ion: 97 Resp: 205349

Ion Ratio Lower Upper

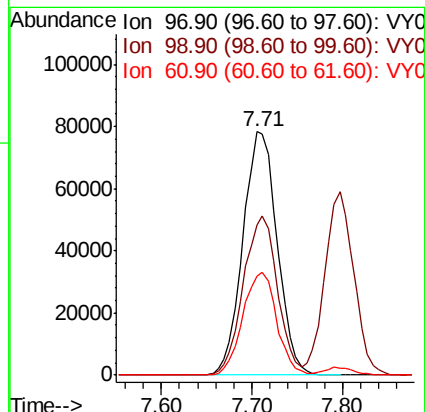
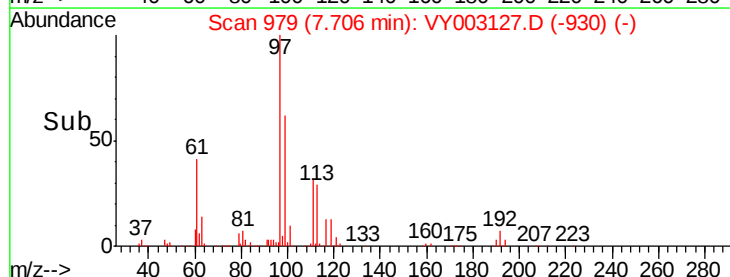
97 100

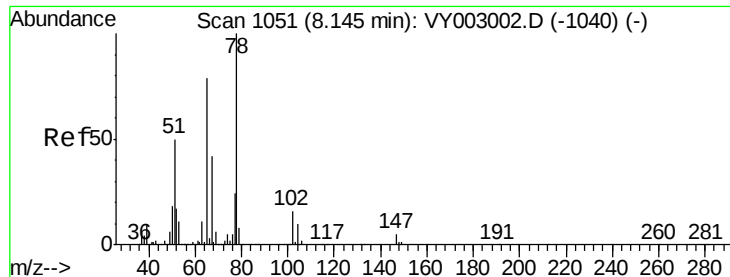
99 65.1 51.4 77.2

61 41.7 33.9 50.9



Abundance Ion 96.90 (96.60 to 97.60): VY0  
Ion 98.90 (98.60 to 99.60): VY0  
Ion 60.90 (60.60 to 61.60): VY0





#33

1,2-Dichloroethane-d4

Concen: 53.367 ug/l

RT: 8.14 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VY003127.D

Acq: 07 Jul 2020 15:26

Instrument :

MSVOA\_Y

ClientSampleId :

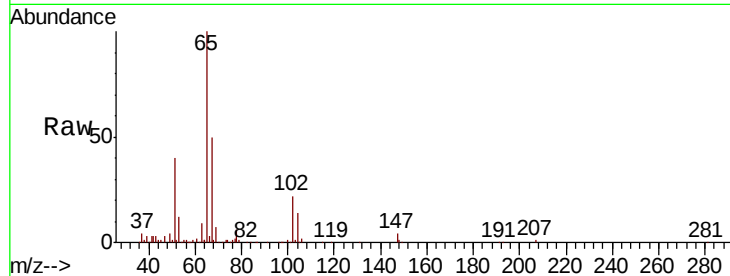
E3-41-NHS

Tot Ion: 65 Resp: 140841

Ion Ratio Lower Upper

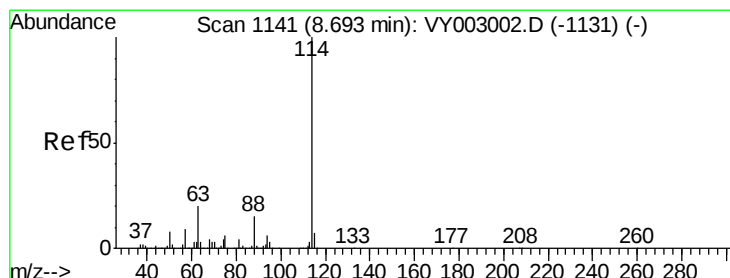
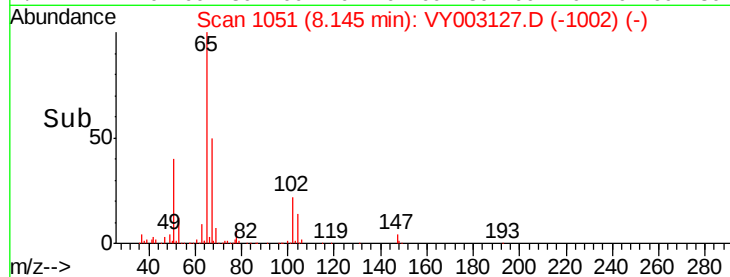
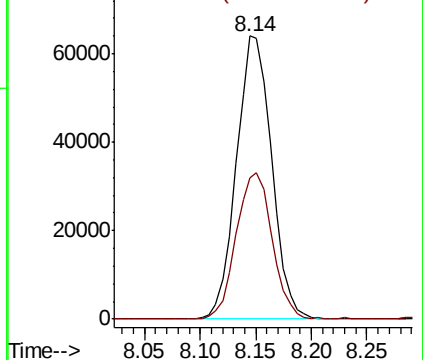
65 100

67 52.4 0.0 105.6



Abundance Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.69 min Scan# 1141

Delta R.T. 0.00 min

Lab File: VY003127.D

Acq: 07 Jul 2020 15:26

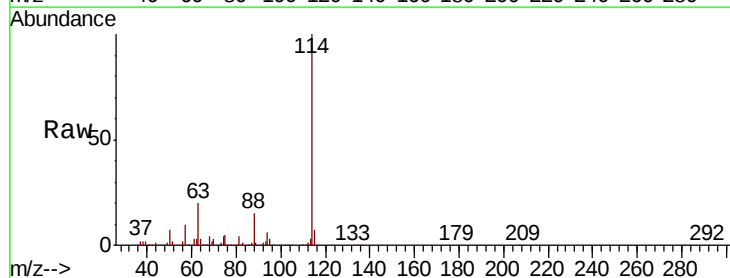
Tgt Ion: 114 Resp: 418746

Ion Ratio Lower Upper

114 100

63 19.8 0.0 40.6

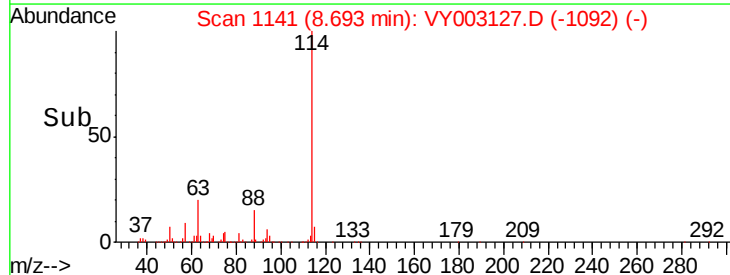
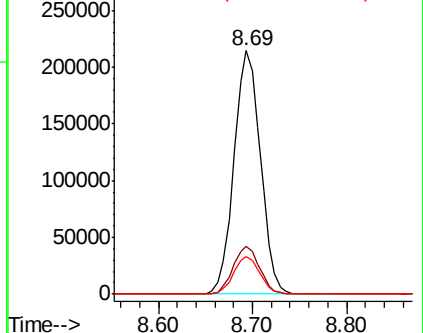
88 15.4 0.0 30.0

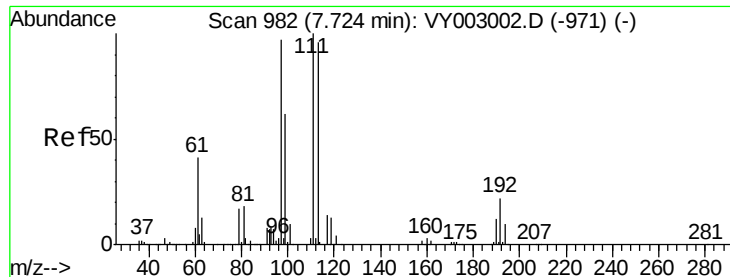


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0

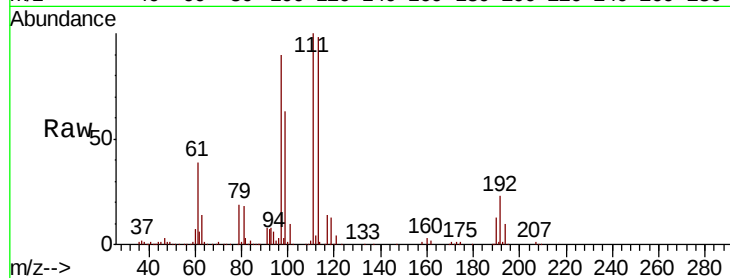




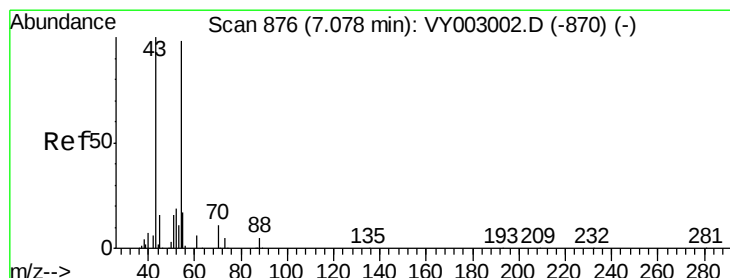
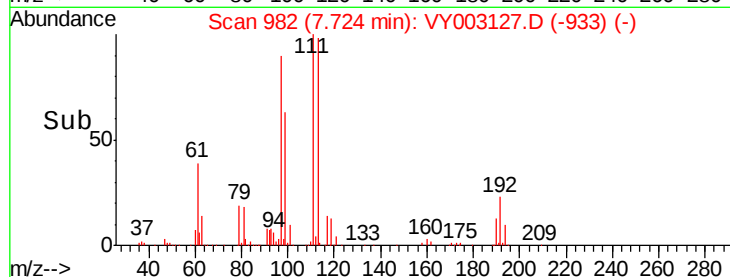
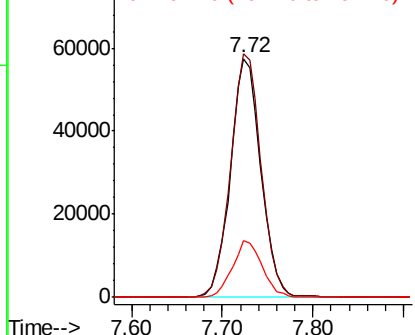
#35  
Dibromofluoromethane  
Concen: 51.611 ug/l  
RT: 7.72 min Scan# 982  
Delta R.T. 0.00 min  
Lab File: VY003127.D  
Acq: 07 Jul 2020 15:26

Instrument :  
MSVOA\_Y  
ClientSampleId :  
E3-41-NHS

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.3 | 82.6  | 123.8 |
| 192     | 23.2  | 18.1  | 27.1  |

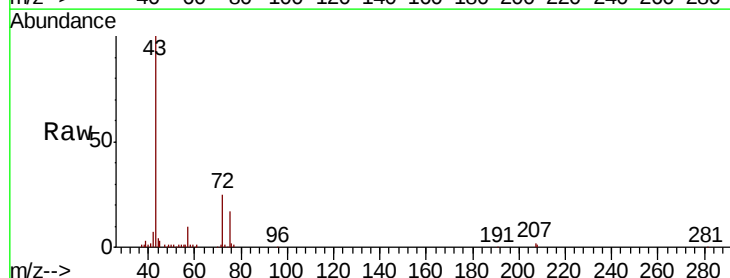


Abundance Ion 112.80 (112.50 to 113.50): V  
Ion 110.80 (110.50 to 111.50): V  
Ion 191.70 (191.40 to 192.40): V

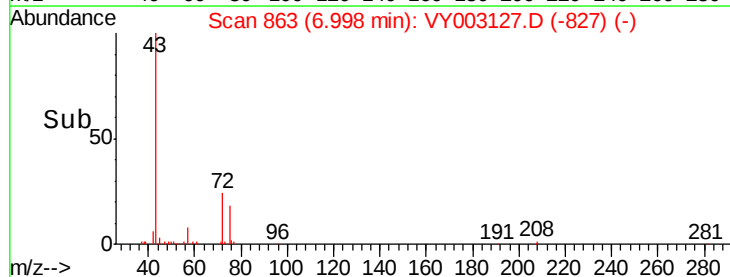
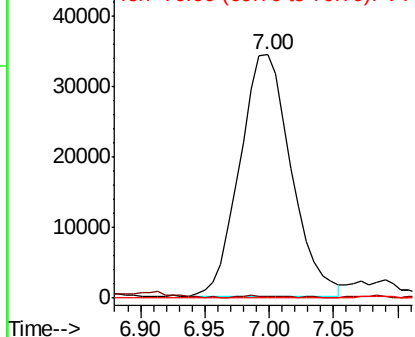


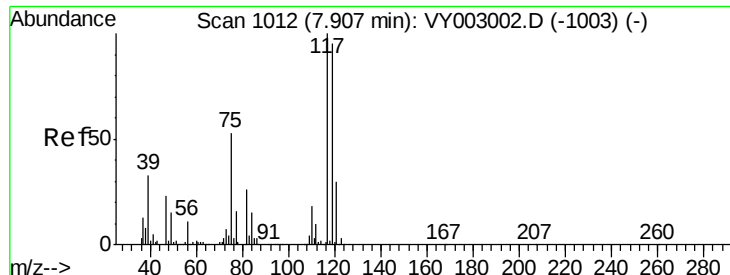
#37  
Ethyl Acetate  
Concen: 39.184 ug/l  
RT: 7.00 min Scan# 863  
Delta R.T. -0.08 min  
Lab File: VY003127.D  
Acq: 07 Jul 2020 15:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 61      | 0.3   | 10.4  | 15.6# |
| 70      | 0.1   | 7.7   | 11.5# |



Abundance Ion 43.00 (42.70 to 43.70): VY0  
Ion 60.90 (60.60 to 61.60): VY0  
Ion 70.00 (69.70 to 70.70): VY0





#38

Carbon Tetrachloride

Concen: 5.764 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.11 min

Lab File: VY003127.D

Acq: 07 Jul 2020 15:26

Instrument :

MSVOA\_Y

ClientSampleId :

E3-41-NHS

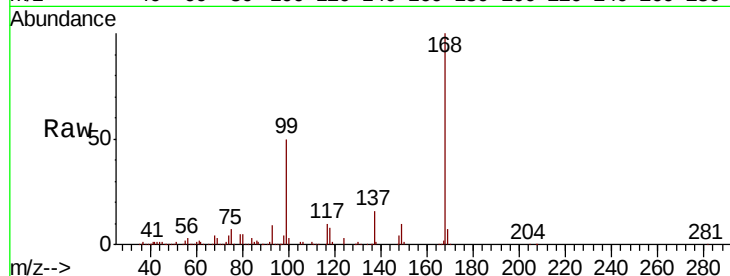
Tot Ion:117 Resp: 24190

Ion Ratio Lower Upper

117 100

119 5.4 75.7 113.5#

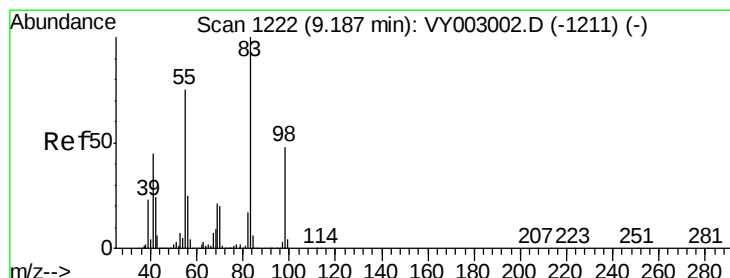
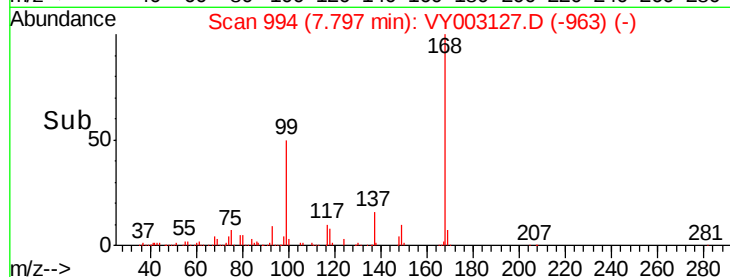
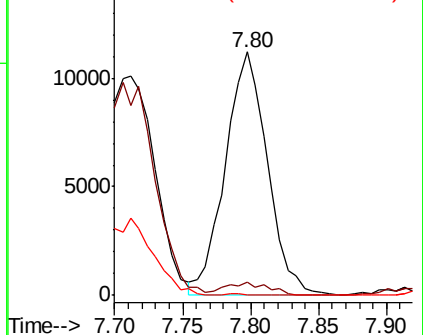
121 0.0 23.9 35.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#39

Methylcyclohexane

Concen: 1.464 ug/l

RT: 9.19 min Scan# 1222

Delta R.T. 0.00 min

Lab File: VY003127.D

Acq: 07 Jul 2020 15:26

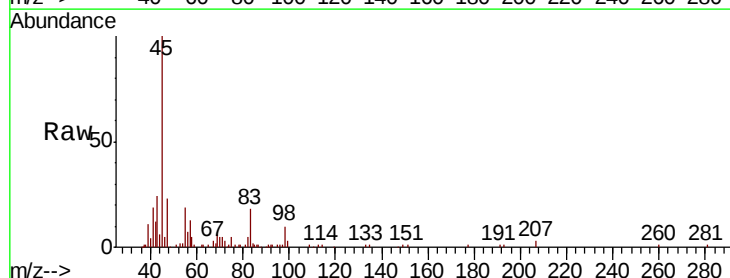
Tgt Ion: 83 Resp: 7320

Ion Ratio Lower Upper

83 100

55 84.3 59.9 89.9

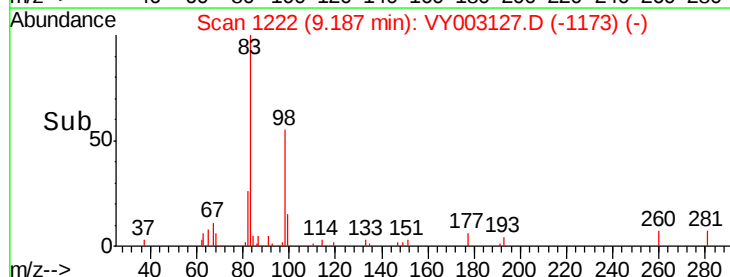
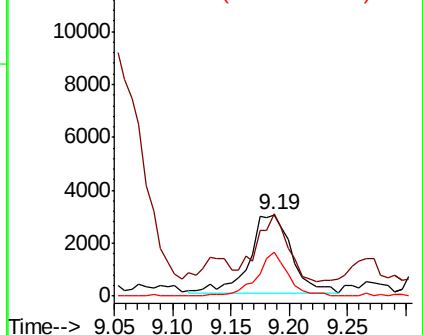
98 56.6 38.7 58.1

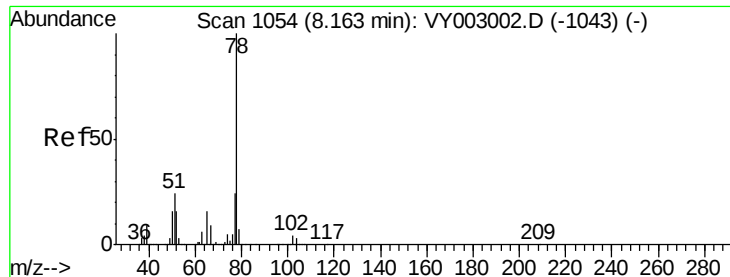


Abundance Ion 83.00 (82.70 to 83.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 98.00 (97.70 to 98.70): VY0





#40

Benzene

Concen: 2.495 ug/l

RT: 8.16 min Scan# 1054

Delta R.T. 0.00 min

Lab File: VY003127.D

Acq: 07 Jul 2020 15:26

Instrument :

MSVOA\_Y

ClientSampleId :

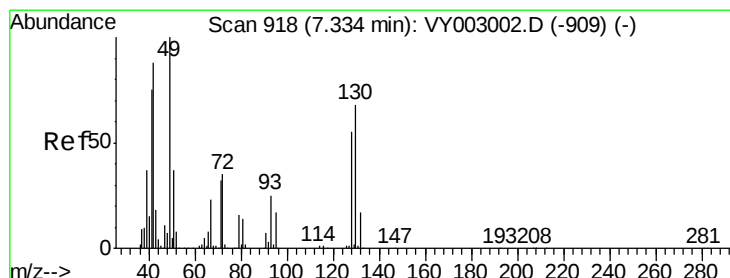
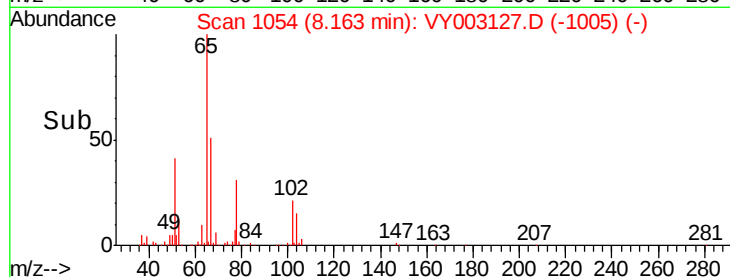
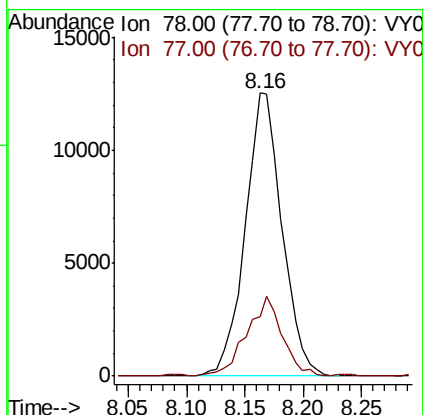
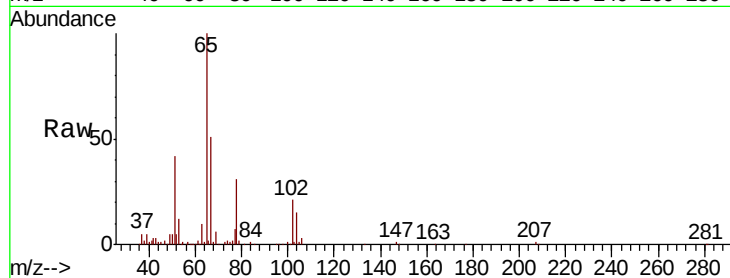
E3-41-NHS

Tot Ion: 78 Resp: 27548

Ion Ratio Lower Upper

78 100

77 20.9 19.2 28.8



#41

Methacrylonitrile

Concen: 69.257 ug/l

RT: 7.33 min Scan# 918

Delta R.T. 0.00 min

Lab File: VY003127.D

Acq: 07 Jul 2020 15:26

Tgt Ion: 41 Resp: 89721

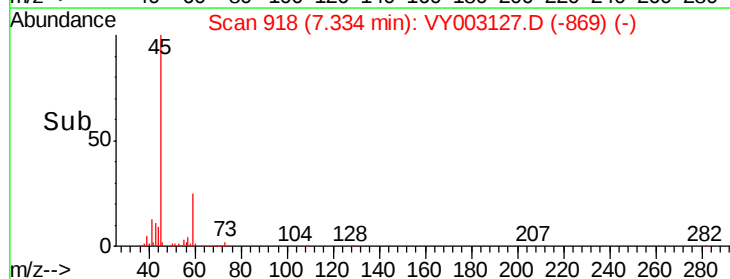
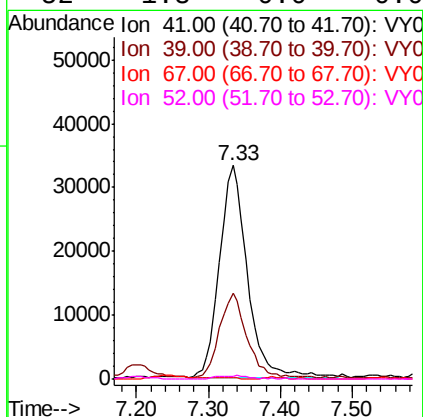
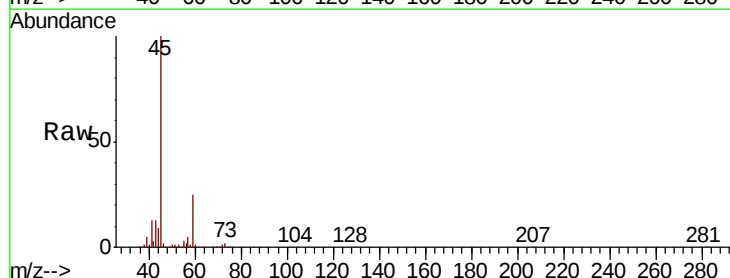
Ion Ratio Lower Upper

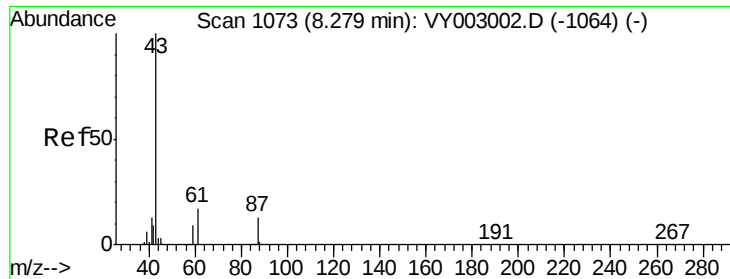
41 100

39 39.0 85.7 128.5#

67 0.0 0.0 0.0

52 1.8 0.0 0.0#





#43

Isopropyl Acetate

Concen: 1.541 ug/l

RT: 8.25 min Scan# 1069

Delta R.T. -0.02 min

Lab File: VY003127.D

Acq: 07 Jul 2020 15:26

Instrument :

MSVOA\_Y

ClientSampleId :

E3-41-NHS

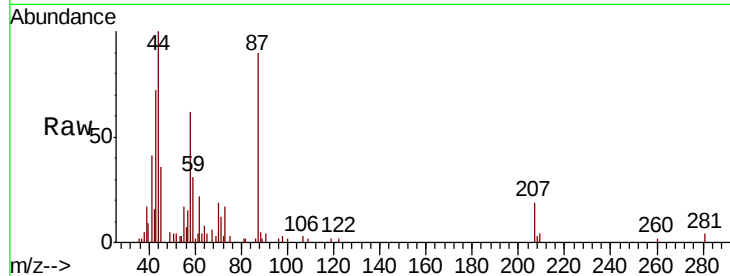
Tot Ion: 43 Resp: 7105

Ion Ratio Lower Upper

43 100

61 5.2 21.8 32.6#

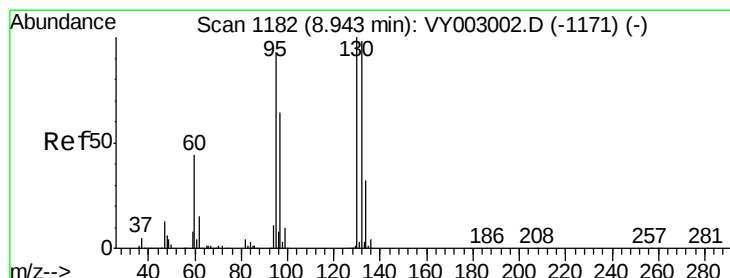
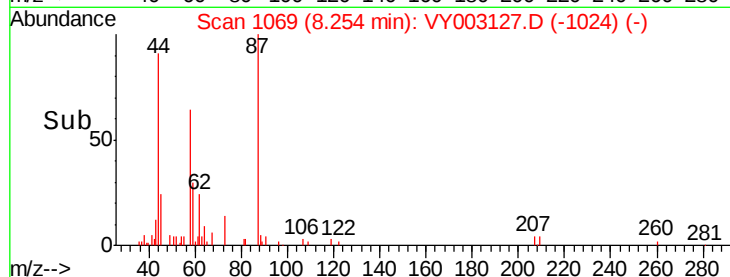
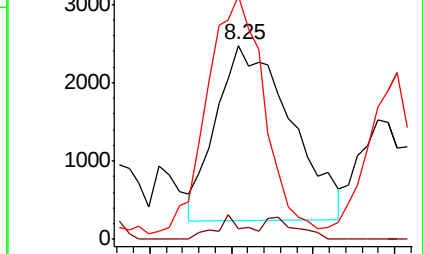
87 110.3 10.1 15.1#



Abundance Ion 43.00 (42.70 to 43.70): VY003127.D (-1064) (-)

Ion 61.00 (60.70 to 61.70): VY003127.D (-1064) (-)

Ion 87.00 (86.70 to 87.70): VY003127.D (-1064) (-)



#44

Trichloroethene

Concen: 3.886 ug/l

RT: 8.95 min Scan# 1183

Delta R.T. 0.01 min

Lab File: VY003127.D

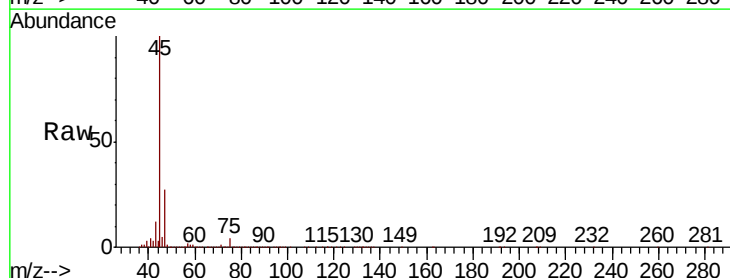
Acq: 07 Jul 2020 15:26

Tgt Ion:130 Resp: 12471

Ion Ratio Lower Upper

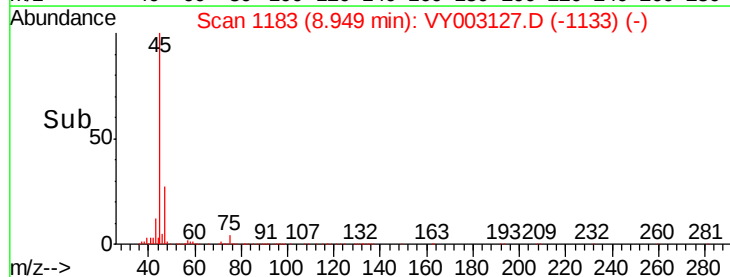
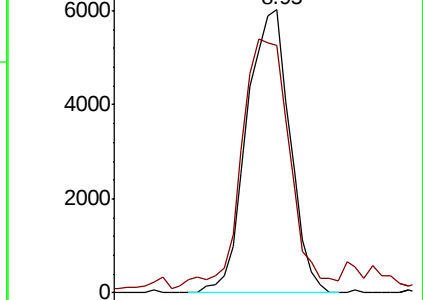
130 100

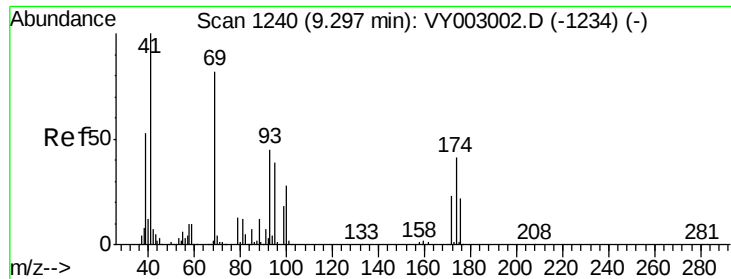
95 83.3 0.0 186.4



Abundance Ion 129.80 (129.50 to 130.50): VY003127.D (-1133) (-)

Ion 94.90 (94.60 to 95.60): VY003127.D (-1133) (-)

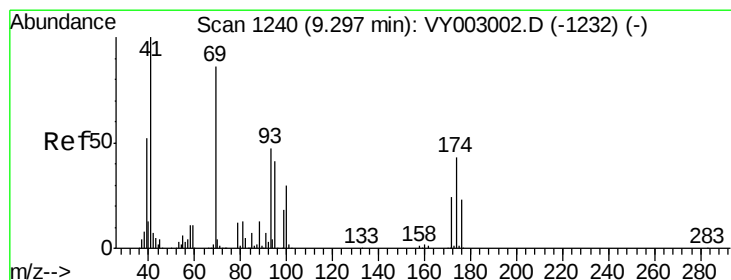
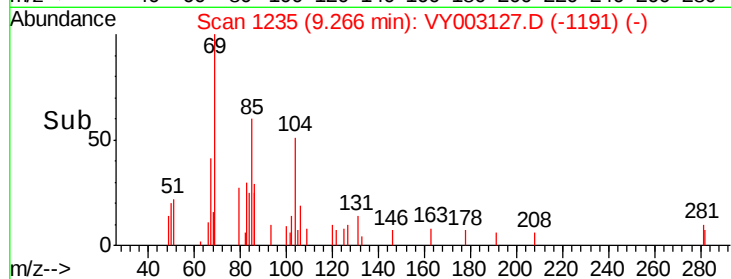
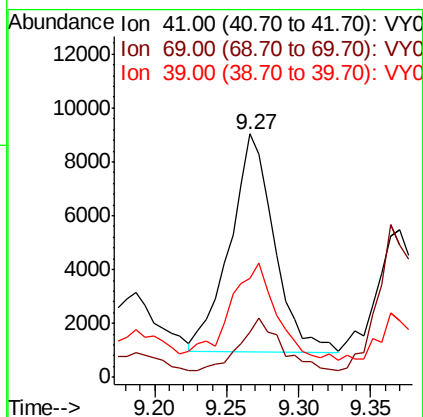
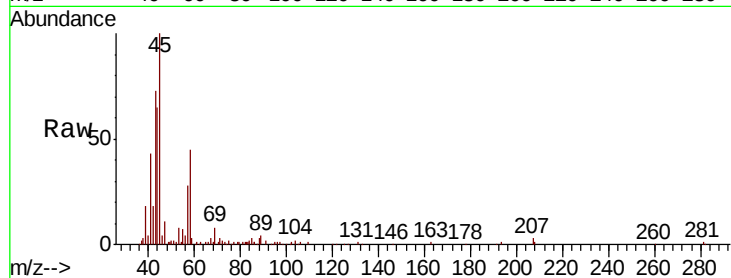




#48  
Methvl methacrvlate  
Concen: 8.280 ug/l  
RT: 9.27 min Scan# 1235  
Delta R.T. -0.03 min  
Lab File: VY003127.D  
Acq: 07 Jul 2020 15:26

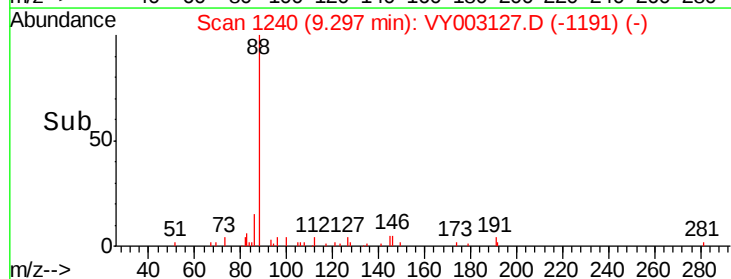
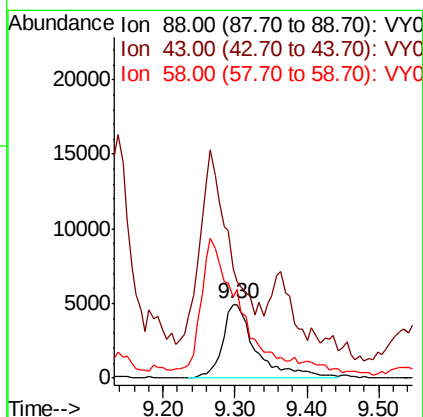
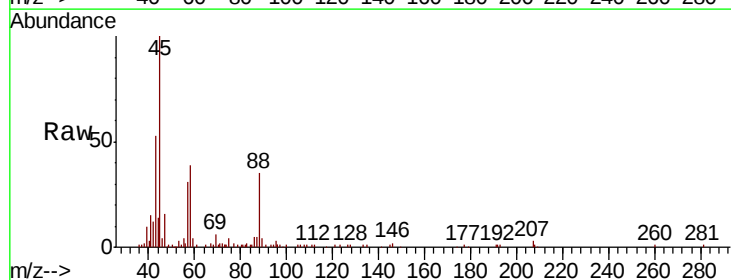
Instrument :  
MSVOA\_Y  
ClientSampleId :  
E3-41-NHS

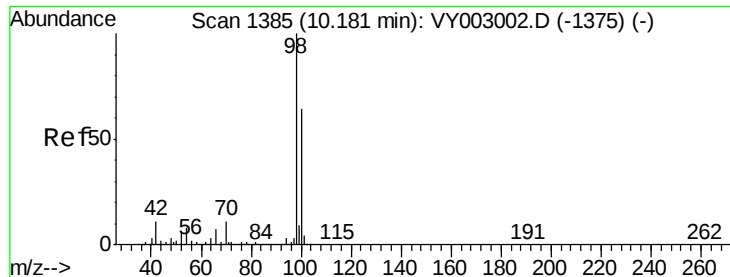
Tot Ion: 41 Resp: 17376  
Ion Ratio Lower Upper  
41 100  
69 22.4 67.7 101.5#  
39 44.2 45.0 67.4#



#49  
1,4-Dioxane  
Concen: 789.632 ug/l  
RT: 9.30 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VY003127.D  
Acq: 07 Jul 2020 15:26

Tgt Ion: 88 Resp: 15994  
Ion Ratio Lower Upper  
88 100  
43 0.0 28.6 42.8#  
58 0.0 56.7 85.1#





#50

Toluene-d8

Concen: 52.189 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VY003127.D

Acq: 07 Jul 2020 15:26

Instrument :

MSVOA\_Y

ClientSampleId :

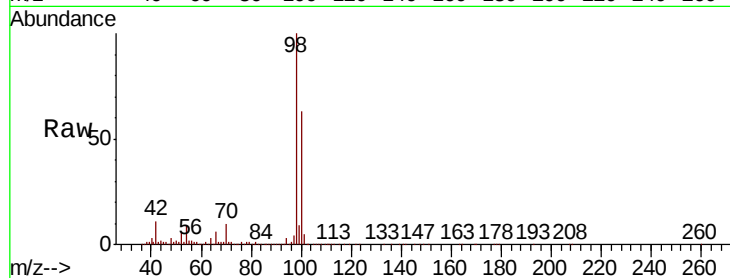
E3-41-NHS

Tot Ion: 98 Resp: 507885

Ion Ratio Lower Upper

98 100

100 64.1 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VY003127.D (-1375) (-)

Ion 100.00 (99.70 to 100.70): VY003127.D (-1375) (-)

10.18

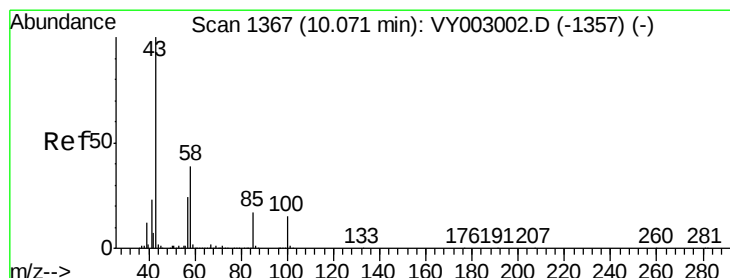
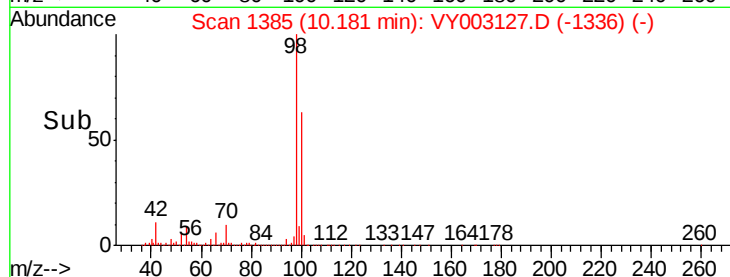
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 9.147 ug/l

RT: 10.07 min Scan# 1367

Delta R.T. 0.00 min

Lab File: VY003127.D

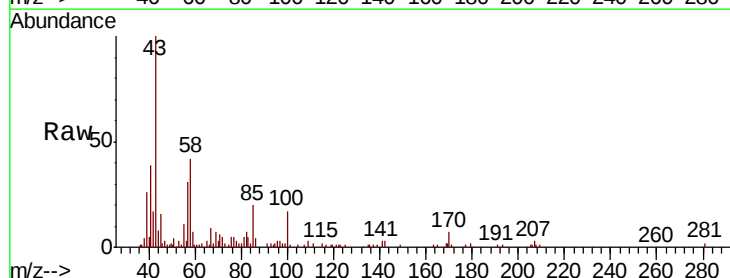
Acq: 07 Jul 2020 15:26

Tgt Ion: 43 Resp: 21797

Ion Ratio Lower Upper

43 100

58 40.9 31.1 46.7



Abundance Ion 43.00 (42.70 to 43.70): VY003127.D (-1318) (-)

Ion 58.00 (57.70 to 58.70): VY003127.D (-1318) (-)

10.07

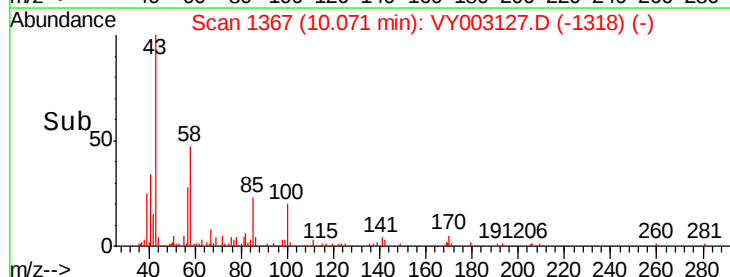
15000

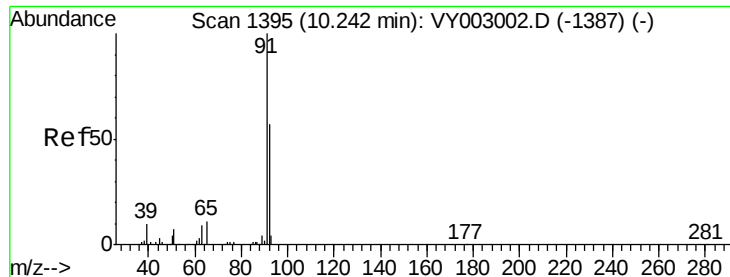
10000

5000

0

Time-->





#52

Toluene

Concen: 78.706 ug/l

RT: 10.25 min Scan# 1396

Delta R.T. 0.01 min

Lab File: VY003127.D

Acq: 07 Jul 2020 15:26

Instrument :

MSVOA\_Y

ClientSampleId :

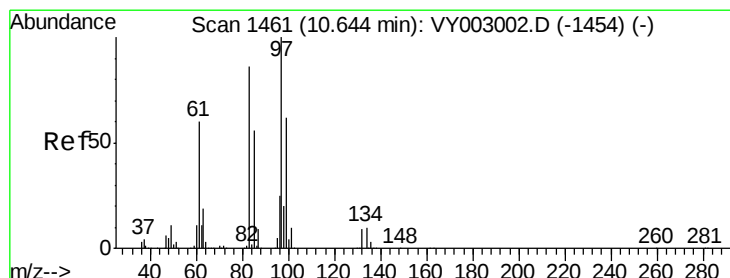
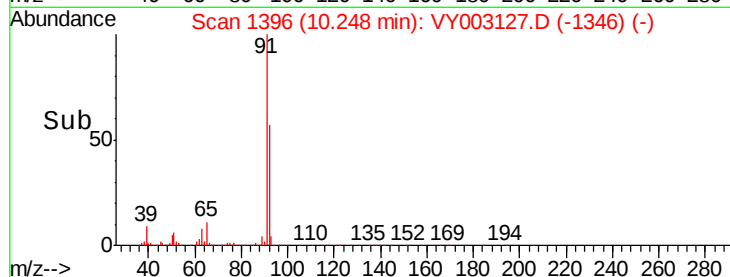
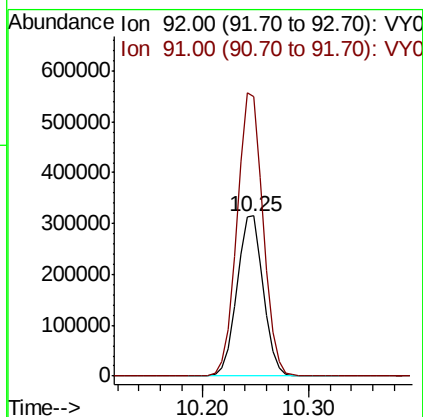
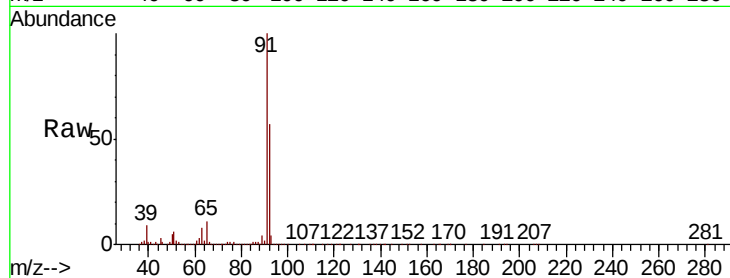
E3-41-NHS

Tot Ion: 92 Resp: 547120

Ion Ratio Lower Upper

92 100

91 174.9 139.6 209.4



#55

1,1,2-Trichloroethane

Concen: 1.961 ug/l

RT: 10.62 min Scan# 1457

Delta R.T. -0.02 min

Lab File: VY003127.D

Acq: 07 Jul 2020 15:26

Tgt Ion: 97 Resp: 4521

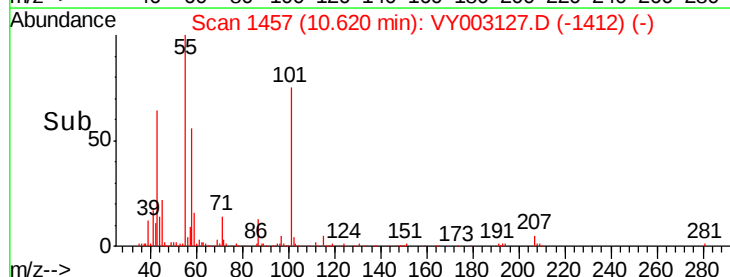
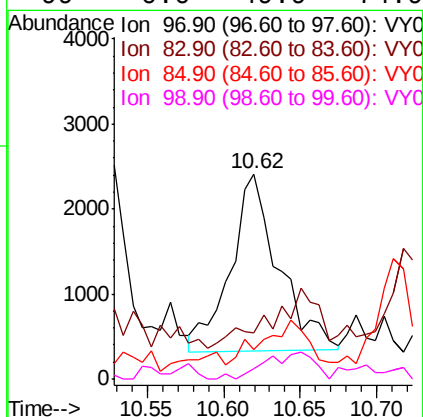
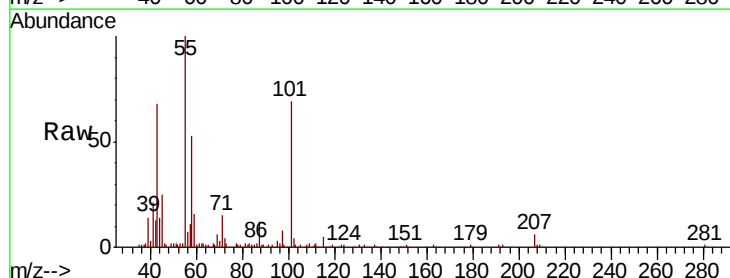
Ion Ratio Lower Upper

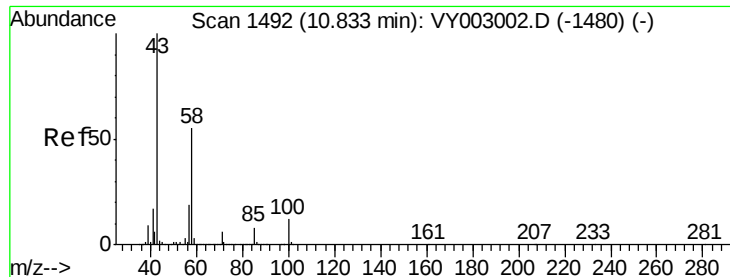
97 100

83 5.9 69.0 103.6#

85 7.4 44.8 67.2#

99 0.0 49.9 74.9#





#59

2-Hexanone

Concen: 6.194 ug/l

RT: 10.83 min Scan# 1492

Delta R.T. 0.00 min

Lab File: VY003127.D

Acq: 07 Jul 2020 15:26

Instrument :

MSVOA\_Y

ClientSampleId :

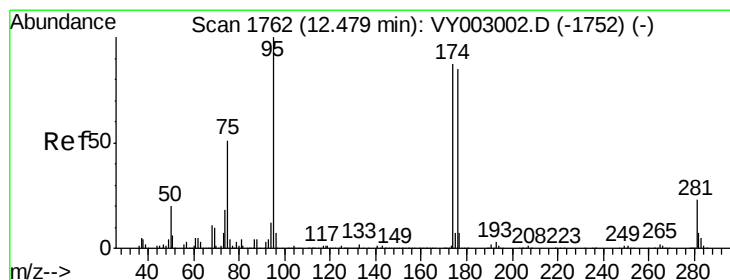
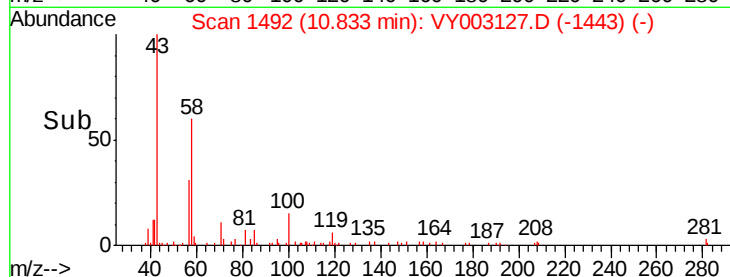
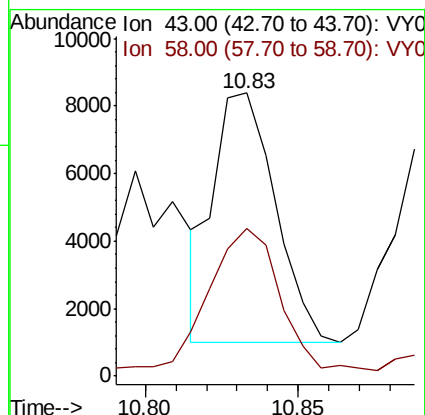
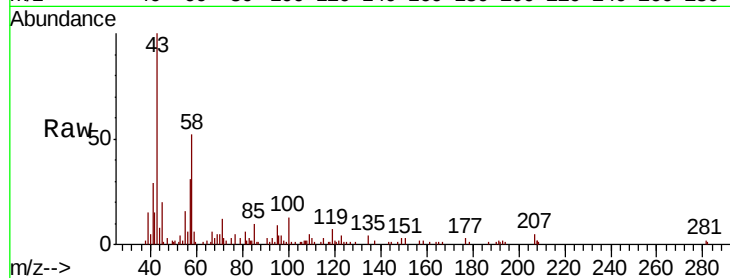
E3-41-NHS

Tot Ion: 43 Resp: 10317

Ion Ratio Lower Upper

43 100

58 66.0 27.5 82.4



#62

4-Bromofluorobenzene

Concen: 50.312 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VY003127.D

Acq: 07 Jul 2020 15:26

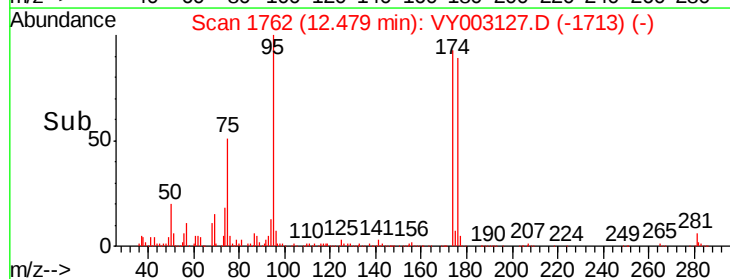
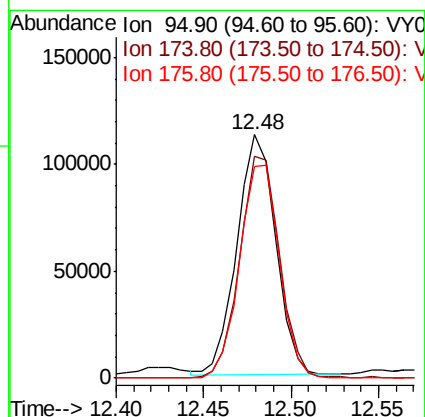
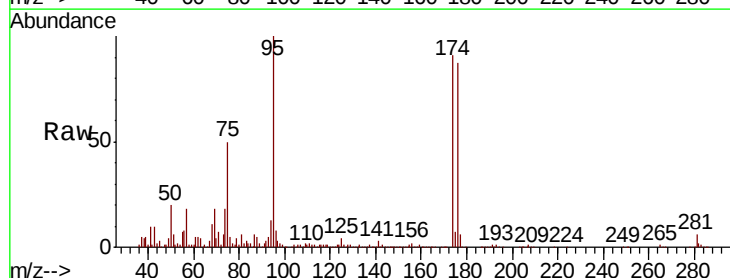
Tgt Ion: 95 Resp: 172345

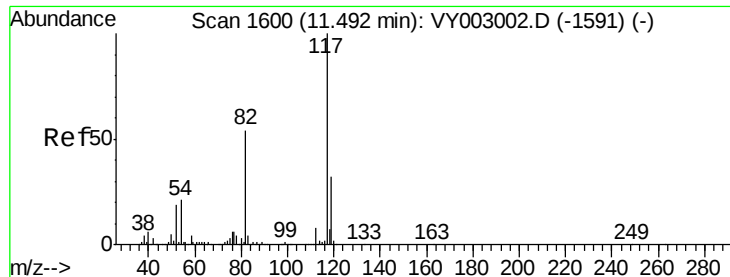
Ion Ratio Lower Upper

95 100

174 94.9 0.0 184.8

176 91.8 0.0 183.0

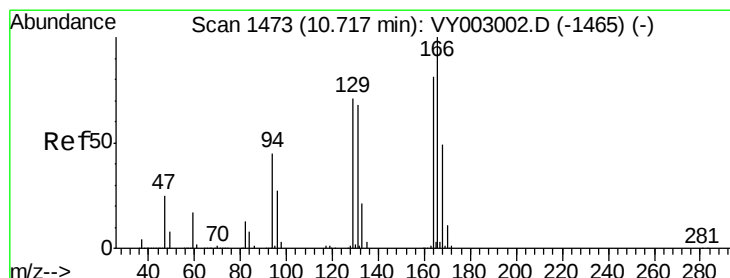
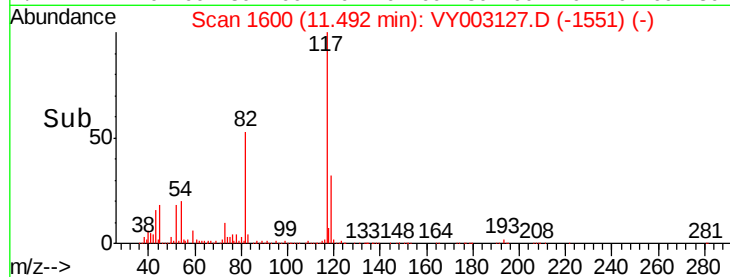
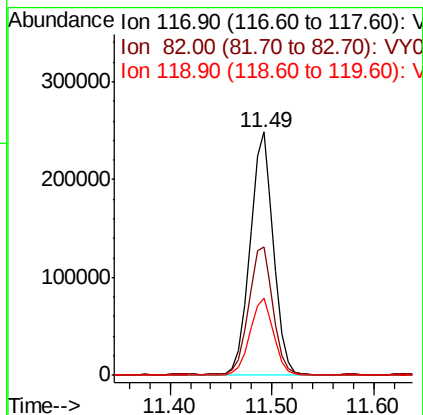
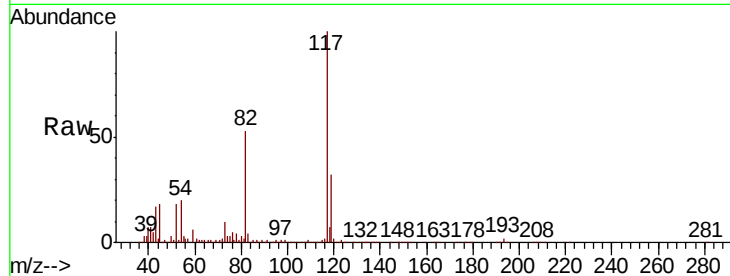




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1600  
Delta R.T. 0.00 min  
Lab File: VY003127.D  
Acq: 07 Jul 2020 15:26

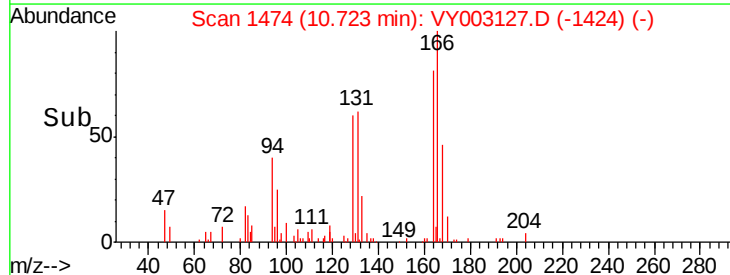
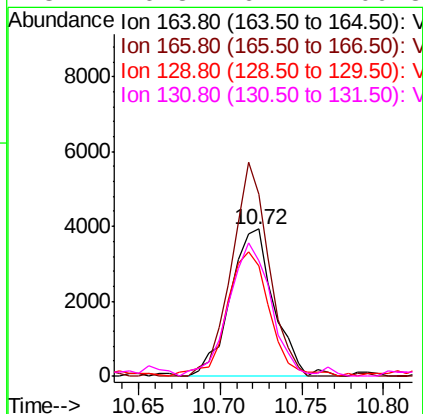
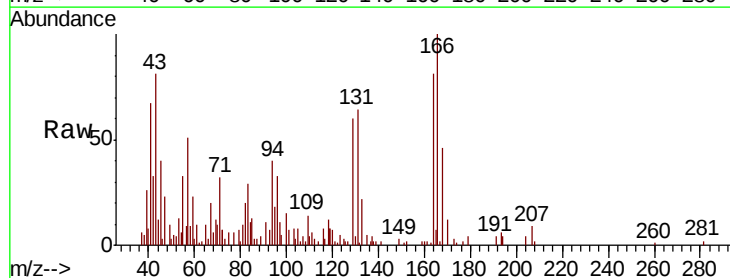
Instrument :  
MSVOA\_Y  
ClientSampleId :  
E3-41-NHS

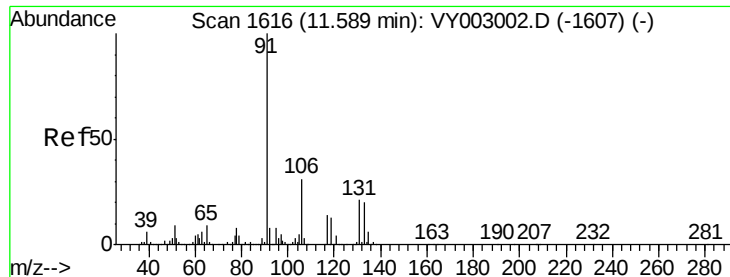
Tot Ion:117 Resp: 395623  
Ion Ratio Lower Upper  
117 100  
82 52.5 43.0 64.6  
119 31.5 25.8 38.8



#64  
Tetrachloroethene  
Concen: 2.164 ug/l  
RT: 10.72 min Scan# 1474  
Delta R.T. 0.01 min  
Lab File: VY003127.D  
Acq: 07 Jul 2020 15:26

Tgt Ion:164 Resp: 7246  
Ion Ratio Lower Upper  
164 100  
166 123.2 98.5 147.7  
129 74.4 69.7 104.5  
131 76.8 67.2 100.8





#67

Ethyl Benzene

Concen: 3.370 ug/l

RT: 11.59 min Scan# 1616

Delta R.T. 0.00 min

Lab File: VY003127.D

Acq: 07 Jul 2020 15:26

Instrument :

MSVOA\_Y

ClientSampleId :

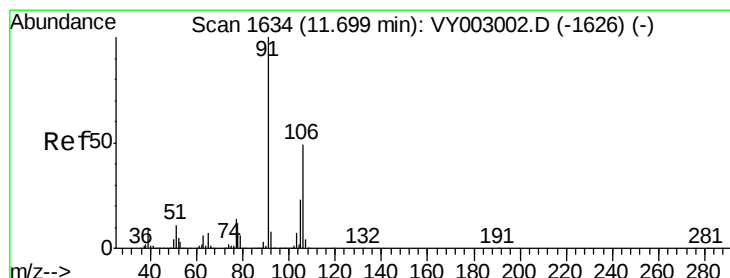
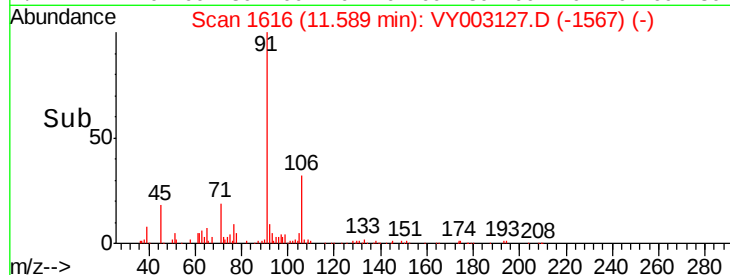
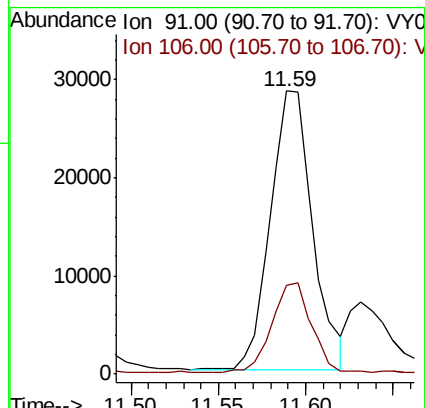
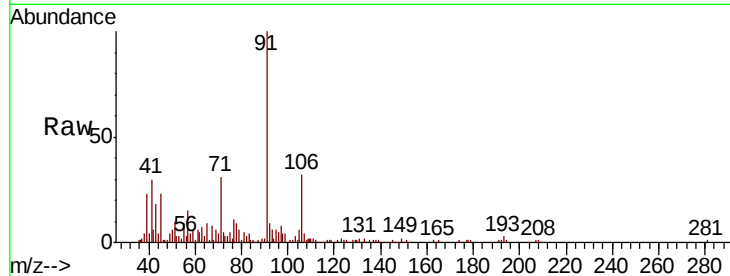
E3-41-NHS

Tot Ion: 91 Resp: 48097

Ion Ratio Lower Upper

91 100

106 31.4 25.0 37.4



#68

m/p-Xylenes

Concen: 8.554 ug/l

RT: 11.69 min Scan# 1633

Delta R.T. -0.01 min

Lab File: VY003127.D

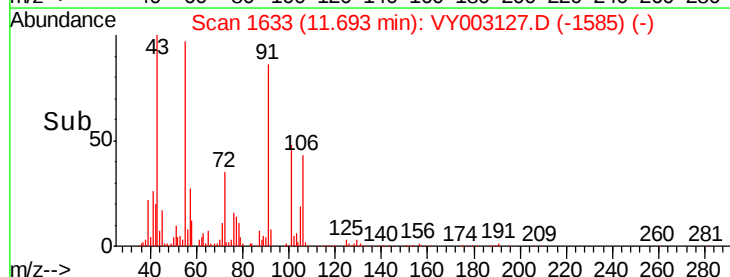
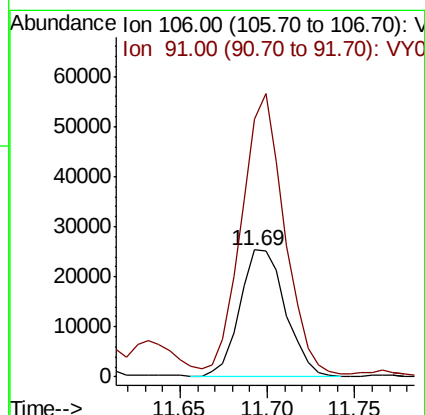
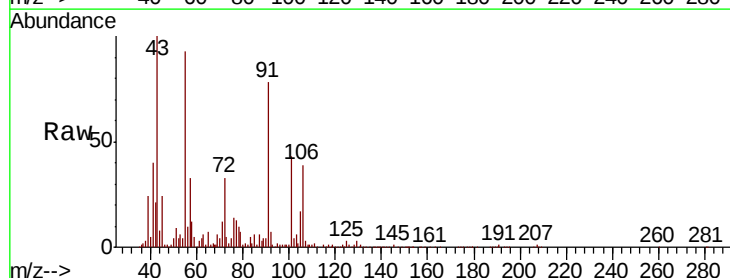
Acq: 07 Jul 2020 15:26

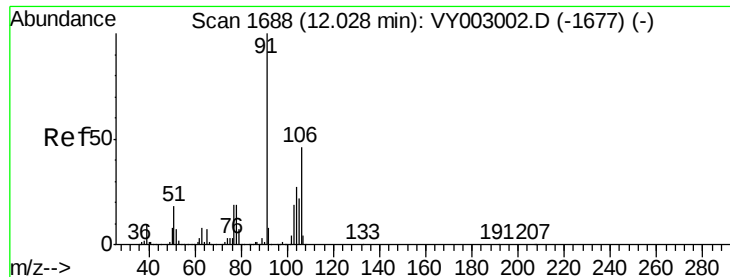
Tgt Ion: 106 Resp: 45433

Ion Ratio Lower Upper

106 100

91 208.1 161.9 242.9

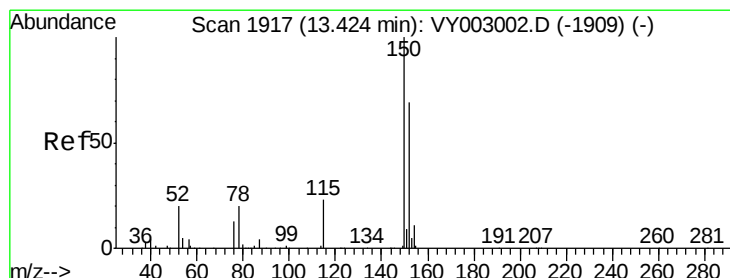
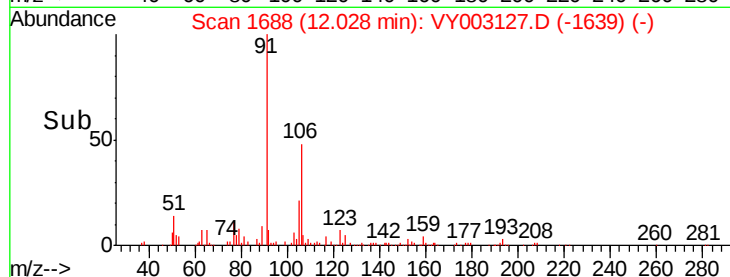
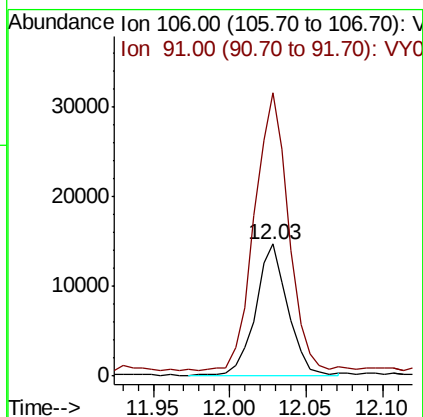
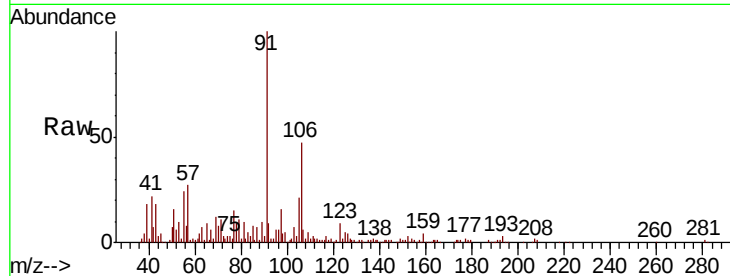




#69  
o-Xylene  
Concen: 4.312 ug/l  
RT: 12.03 min Scan# 1688  
Delta R.T. 0.00 min  
Lab File: VY003127.D  
Acq: 07 Jul 2020 15:26

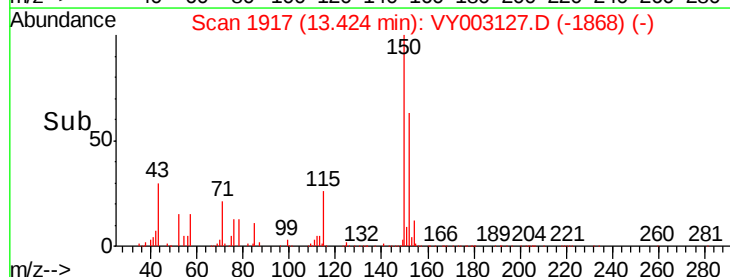
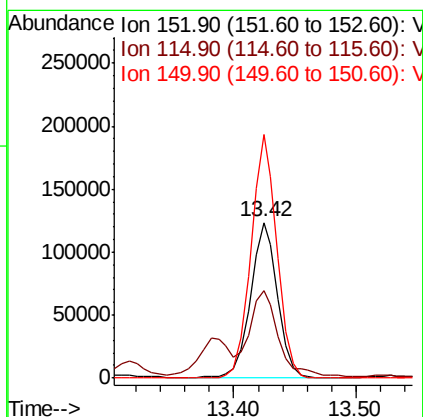
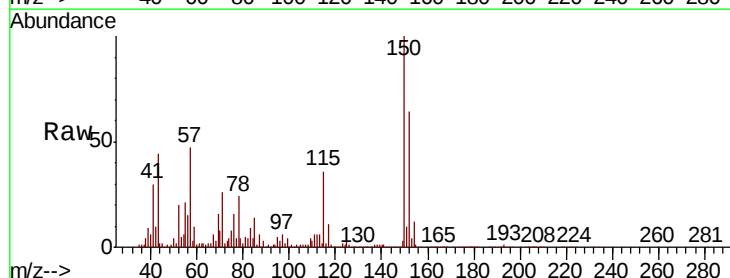
Instrument :  
MSVOA\_Y  
ClientSampled :  
E3-41-NHS

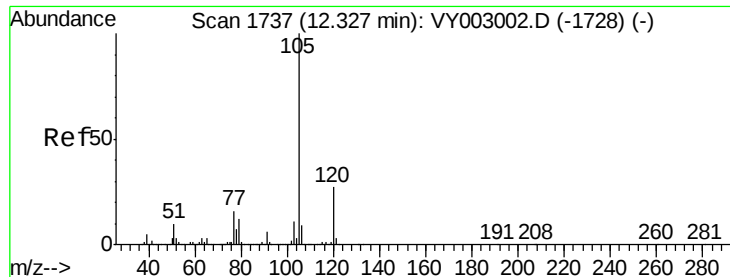
Tot Ion:106 Resp: 21580  
Ion Ratio Lower Upper  
106 100  
91 222.1 107.9 323.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1917  
Delta R.T. 0.00 min  
Lab File: VY003127.D  
Acq: 07 Jul 2020 15:26

Tgt Ion:152 Resp: 187421  
Ion Ratio Lower Upper  
152 100  
115 60.3 27.3 81.9  
150 150.8 0.0 343.4





#73

Isopropylbenzene

Concen: 5.039 ug/l

RT: 12.33 min Scan# 1737

Delta R.T. 0.00 min

Lab File: VY003127.D

Acq: 07 Jul 2020 15:26

Instrument :

MSVOA\_Y

ClientSampleId :

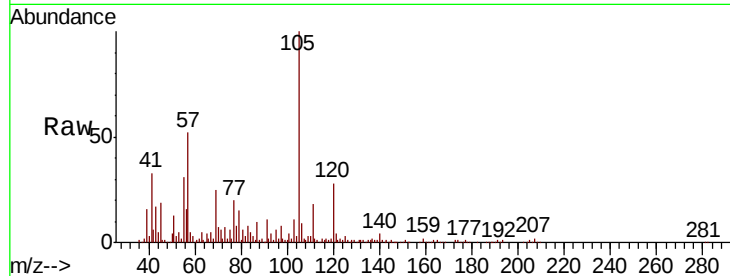
E3-41-NHS

Tot Ion:105 Resp: 61808

Ion Ratio Lower Upper

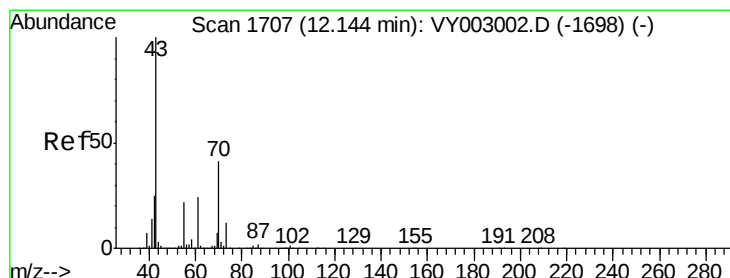
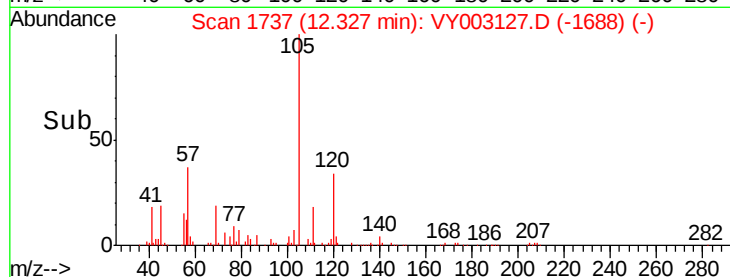
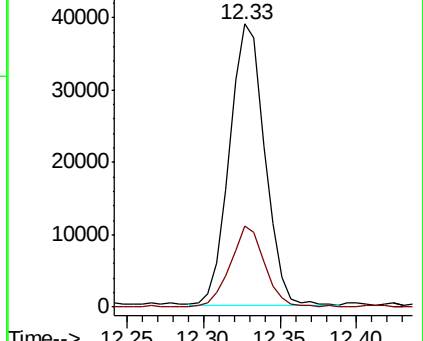
105 100

120 27.8 13.4 40.1



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 12.087 ug/l

RT: 12.12 min Scan# 1703

Delta R.T. -0.02 min

Lab File: VY003127.D

Acq: 07 Jul 2020 15:26

Tgt Ion: 43 Resp: 48266

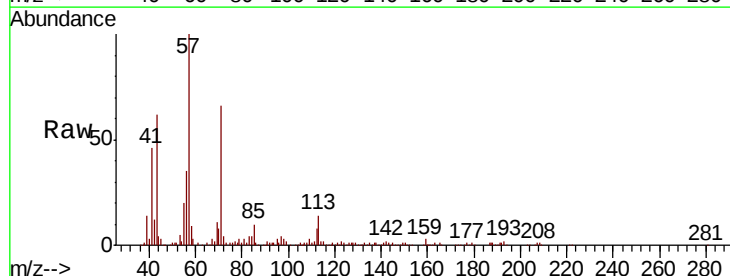
Ion Ratio Lower Upper

43 100

70 14.8 33.0 49.4#

55 10.5 18.2 27.2#

61 1.8 19.4 29.2#

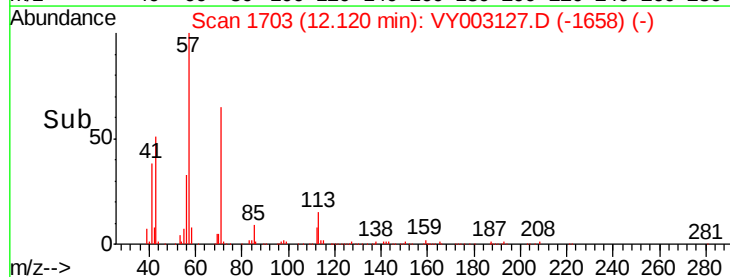
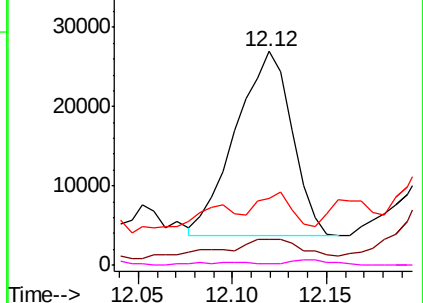


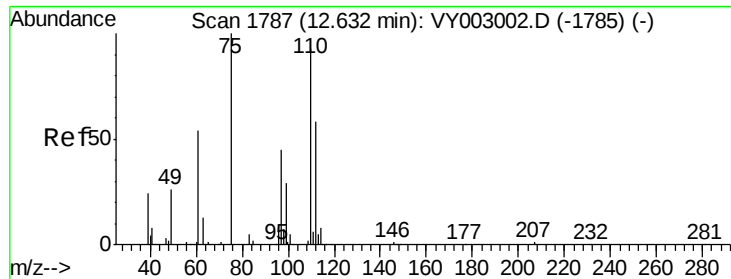
Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 70.00 (69.70 to 70.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 61.00 (60.70 to 61.70): VY0

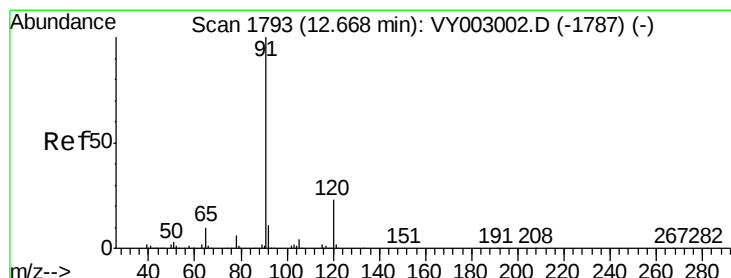
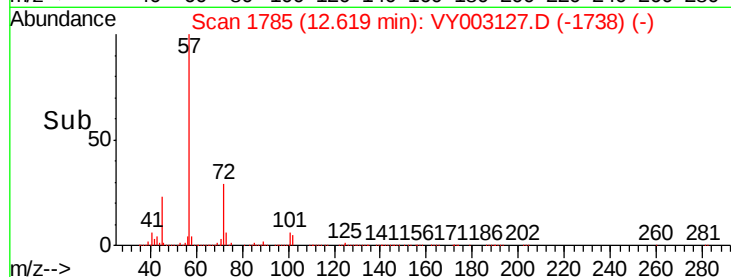
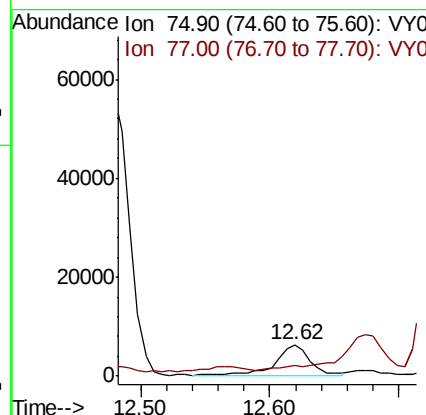
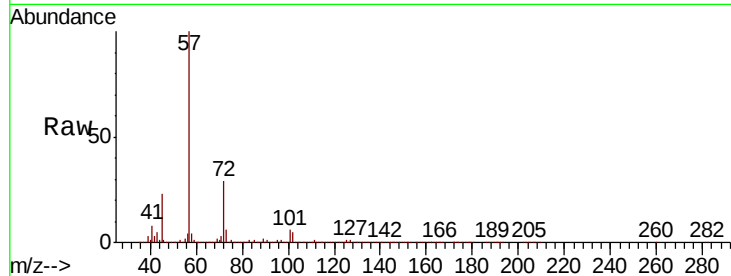




#76  
 1,2,3-Trichloropropane  
 Concen: 6.221 ug/l  
 RT: 12.62 min Scan# 1785  
 Delta R.T. -0.01 min  
 Lab File: VY003127.D  
 Acq: 07 Jul 2020 15:26

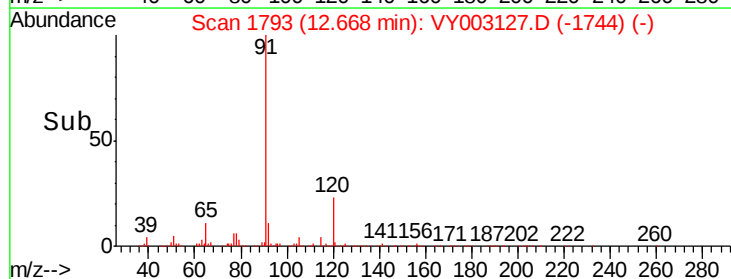
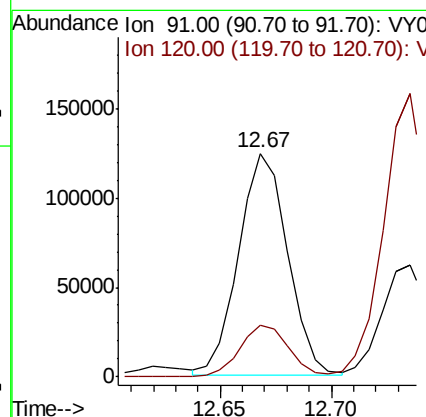
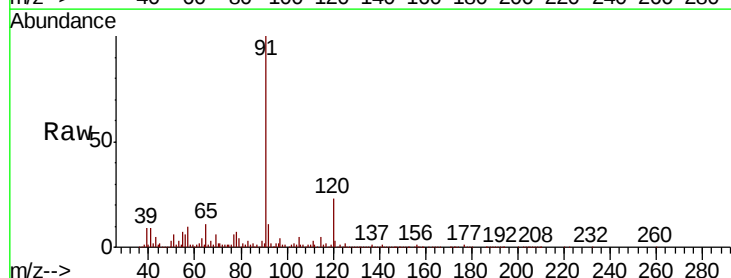
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 E3-41-NHS

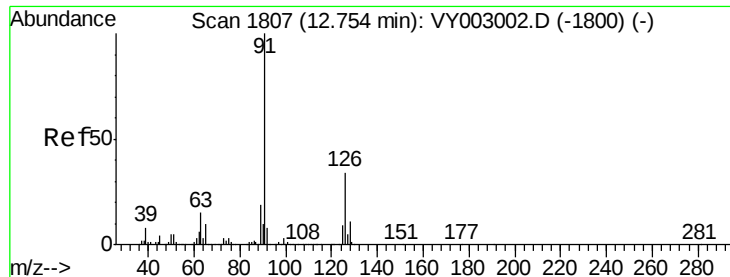
Tot Ion: 75 Resp: 11539  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 0.0 0.0



#78  
 n-propylbenzene  
 Concen: 12.938 ug/l  
 RT: 12.67 min Scan# 1793  
 Delta R.T. 0.00 min  
 Lab File: VY003127.D  
 Acq: 07 Jul 2020 15:26

Tgt Ion: 91 Resp: 190856  
 Ion Ratio Lower Upper  
 91 100  
 120 23.0 11.5 34.5

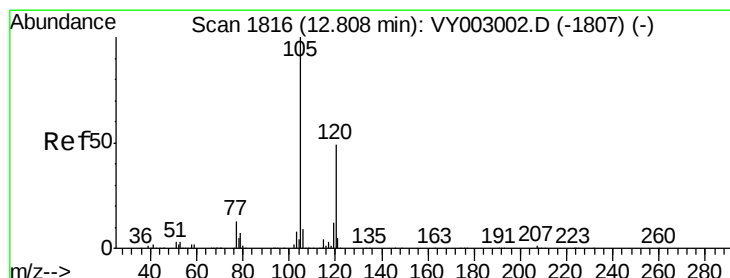
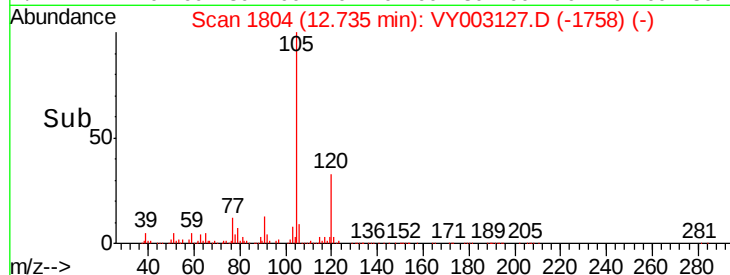
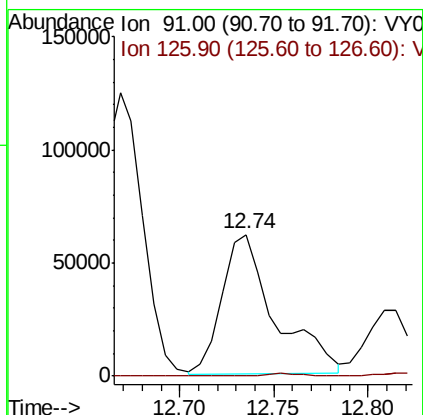
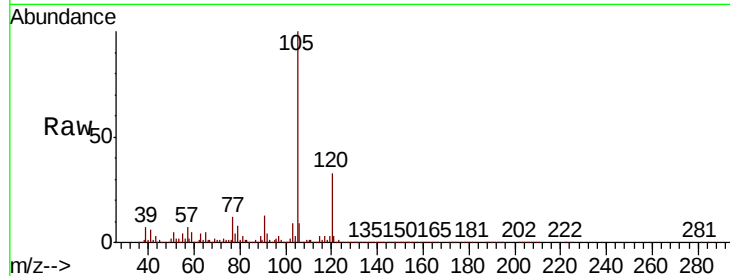




#79  
 2-Chlorotoluene  
 Concen: 14.624 ug/l  
 RT: 12.74 min Scan# 1804  
 Delta R.T. -0.02 min  
 Lab File: VY003127.D  
 Acq: 07 Jul 2020 15:26

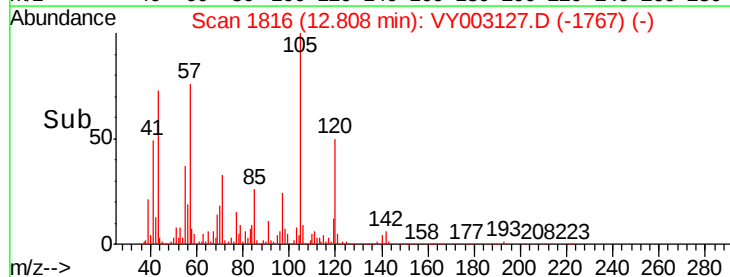
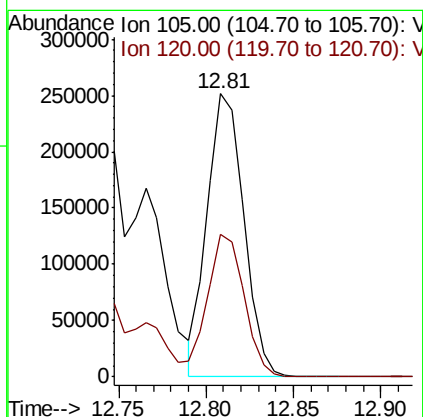
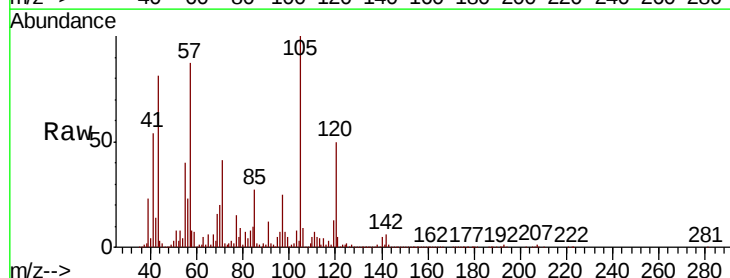
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 E3-41-NHS

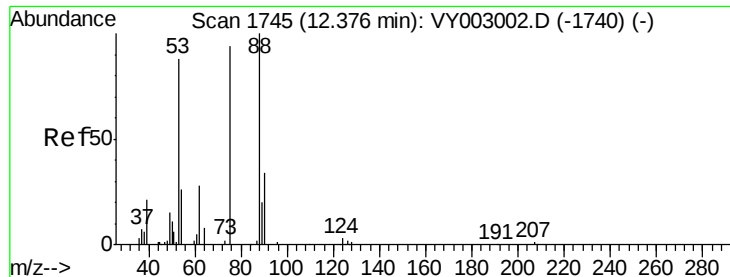
Tot Ion: 91 Resp: 120416  
 Ion Ratio Lower Upper  
 91 100  
 126 0.1 17.1 51.3#



#80  
 1,3,5-Trimethylbenzene  
 Concen: 35.537 ug/l  
 RT: 12.81 min Scan# 1816  
 Delta R.T. 0.00 min  
 Lab File: VY003127.D  
 Acq: 07 Jul 2020 15:26

Tgt Ion: 105 Resp: 365777  
 Ion Ratio Lower Upper  
 105 100  
 120 51.3 24.6 73.6





#81

trans-1,4-Dichloro-2-butene

Concen: 4.993 ug/l

RT: 12.33 min Scan# 1737

Delta R.T. -0.05 min

Lab File: VY003127.D

Acq: 07 Jul 2020 15:26

Instrument :

MSVOA\_Y

ClientSampleId :

E3-41-NHS

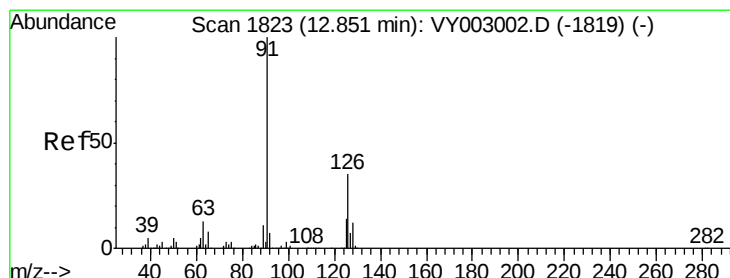
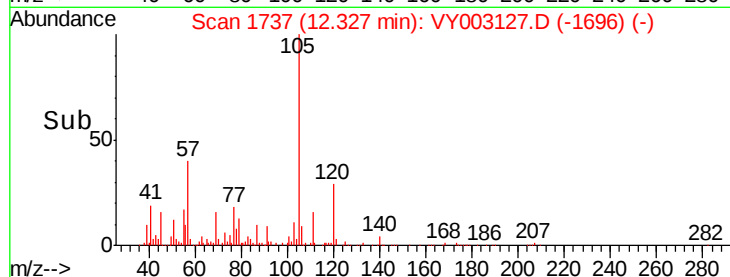
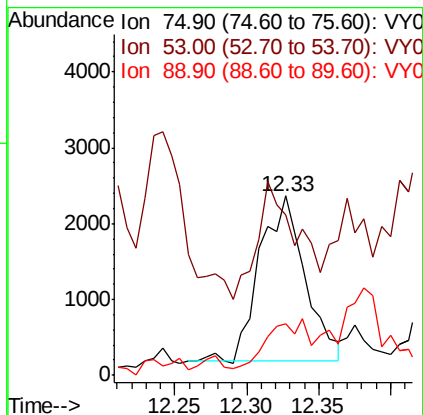
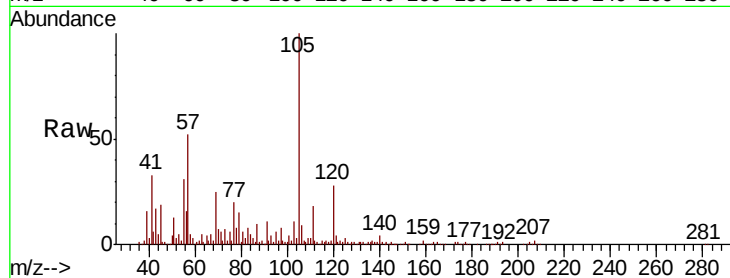
Tot Ion: 75 Resp: 4760

Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

89 28.6 37.5 56.3#



#82

4-Chlorotoluene

Concen: 4.243 ug/l

RT: 12.81 min Scan# 1816

Delta R.T. -0.04 min

Lab File: VY003127.D

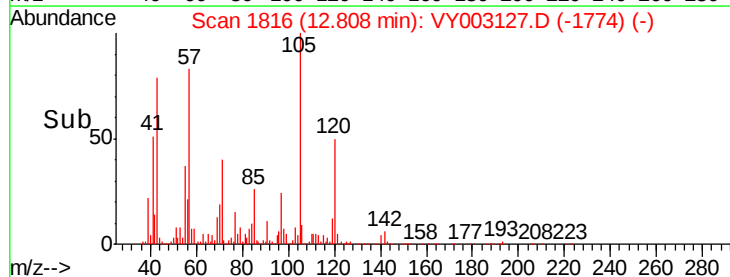
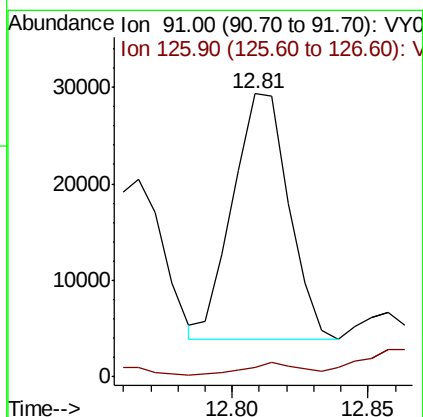
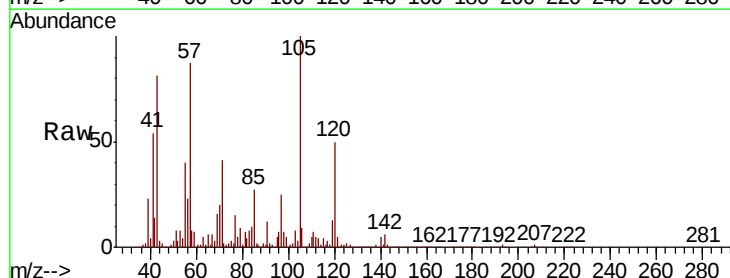
Acq: 07 Jul 2020 15:26

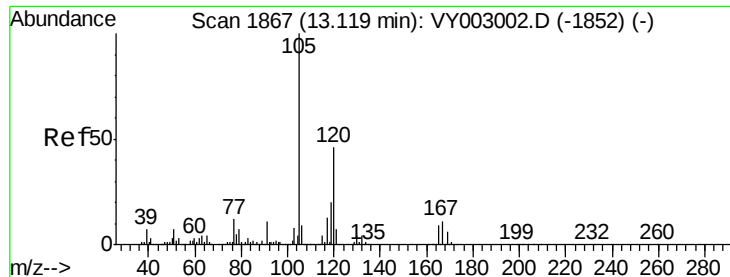
Tgt Ion: 91 Resp: 36375

Ion Ratio Lower Upper

91 100

126 4.9 17.4 52.3#

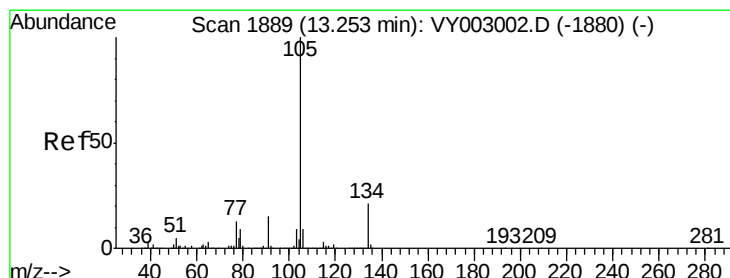
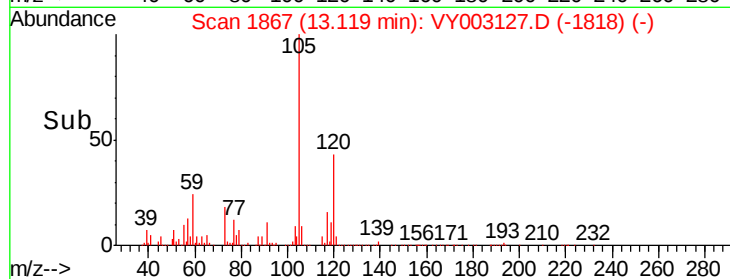
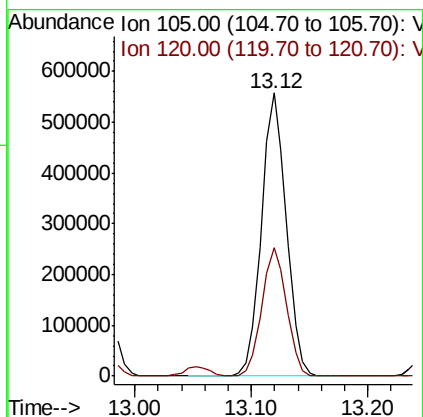
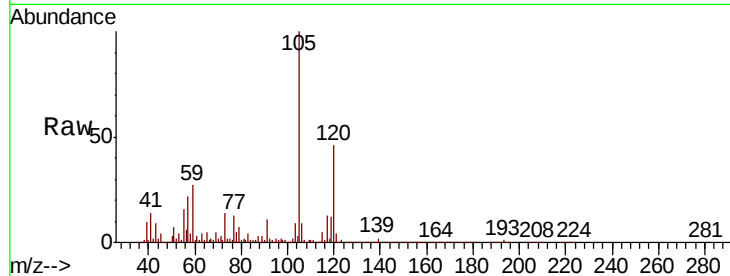




#84  
 1,2,4-Trimethylbenzene  
 Concen: 78.845 ug/l  
 RT: 13.12 min Scan# 1867  
 Delta R.T. 0.00 min  
 Lab File: VY003127.D  
 Acq: 07 Jul 2020 15:26

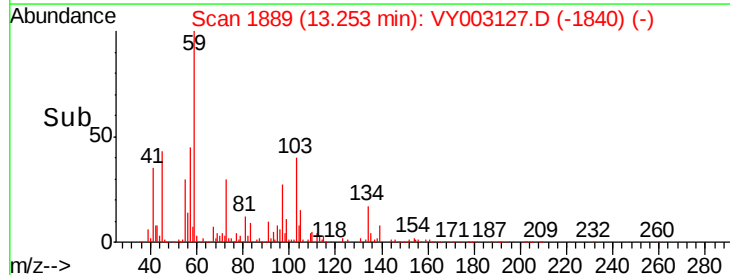
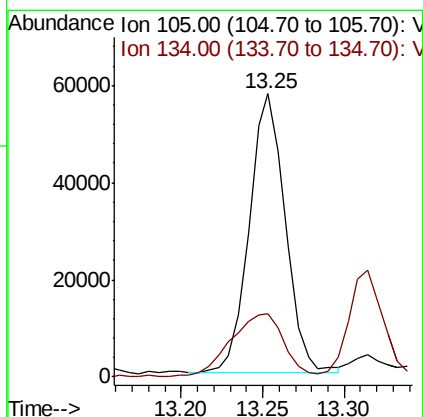
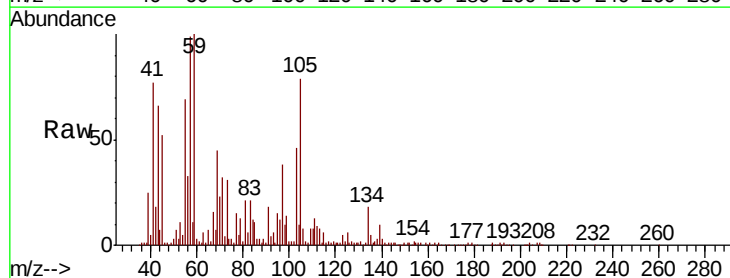
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 E3-41-NHS

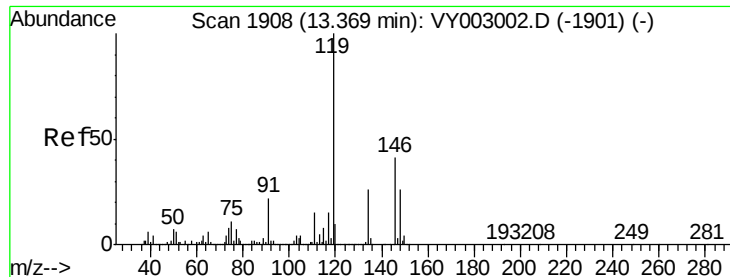
Tot Ion:105 Resp: 817754  
 Ion Ratio Lower Upper  
 105 100  
 120 45.4 22.6 67.8



#85  
 sec-Butylbenzene  
 Concen: 7.056 ug/l  
 RT: 13.25 min Scan# 1889  
 Delta R.T. 0.00 min  
 Lab File: VY003127.D  
 Acq: 07 Jul 2020 15:26

Tgt Ion:105 Resp: 87900  
 Ion Ratio Lower Upper  
 105 100  
 134 32.8 10.4 31.2#

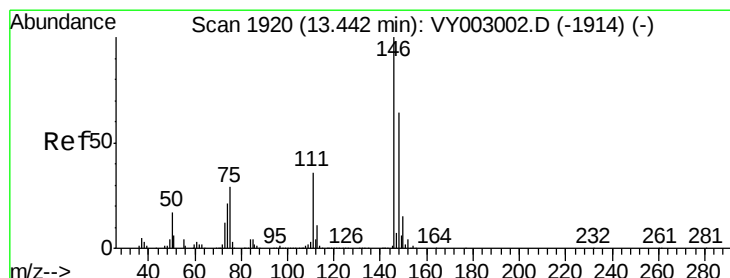
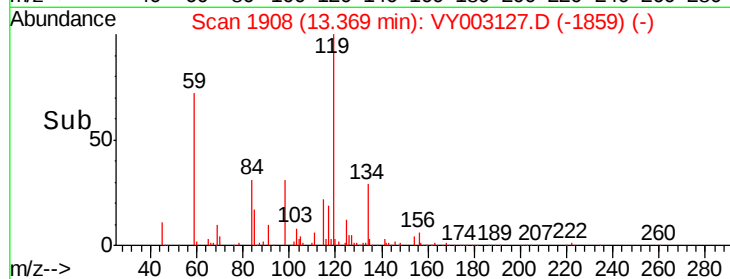
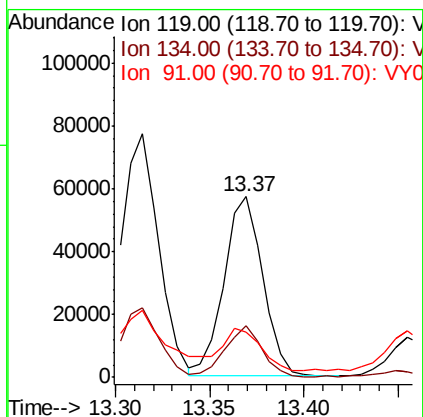
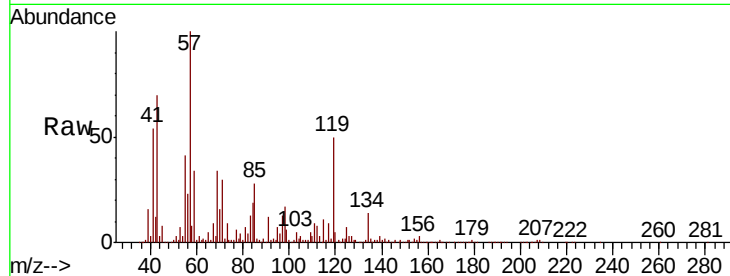




#86  
 p-Isopropyltoluene  
 Concen: 7.048 ug/l  
 RT: 13.37 min Scan# 1908  
 Delta R.T. 0.00 min  
 Lab File: VY003127.D  
 Acq: 07 Jul 2020 15:26

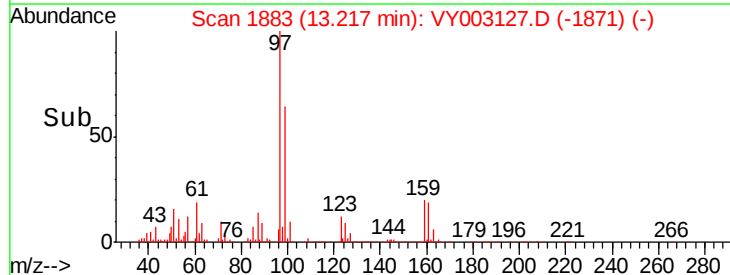
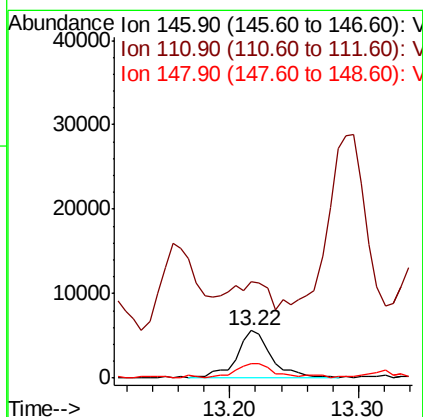
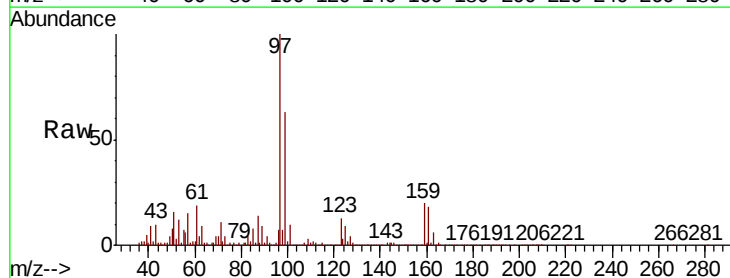
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 E3-41-NHS

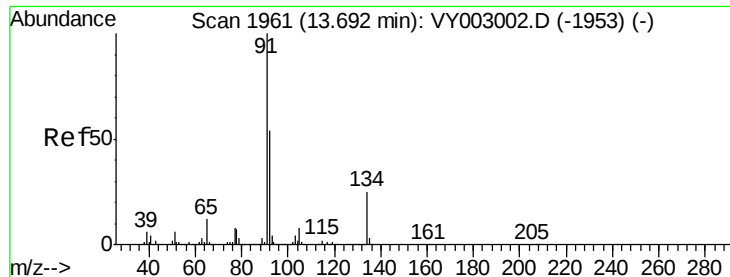
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 119     | 100   |       |       |
| 134     | 26.7  | 13.5  | 40.4  |
| 91      | 23.2  | 11.5  | 34.5  |



#88  
 1,4-Dichlorobenzene  
 Concen: 1.717 ug/l  
 RT: 13.22 min Scan# 1883  
 Delta R.T. -0.23 min  
 Lab File: VY003127.D  
 Acq: 07 Jul 2020 15:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 46.8  | 18.4  | 55.4  |
| 148     | 0.0   | 32.3  | 96.9# |





#89

n-Butylbenzene

Concen: 9.508 ug/l

RT: 13.66 min Scan# 1956

Delta R.T. -0.03 min

Lab File: VY003127.D

Acq: 07 Jul 2020 15:26

Instrument :

MSVOA\_Y

ClientSampleId :

E3-41-NHS

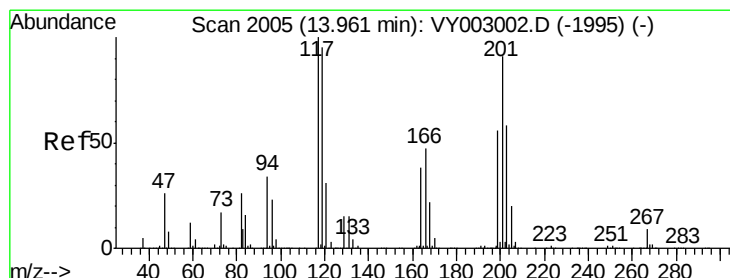
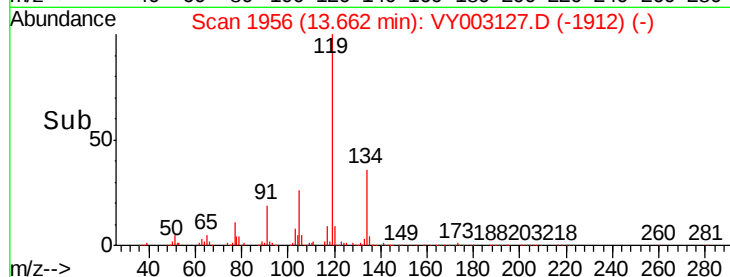
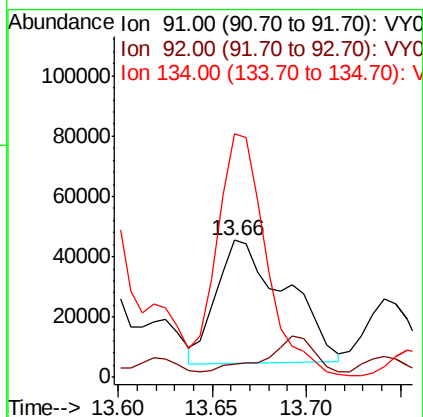
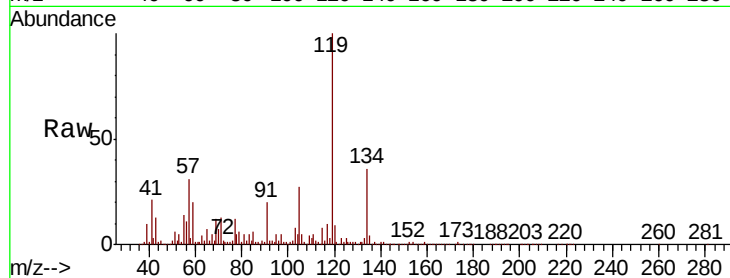
Tot Ion: 91 Resp: 105009

Ion Ratio Lower Upper

91 100

92 0.0 26.8 80.3#

134 138.3 13.1 39.1#



#90

Hexachloroethane

Concen: 9.127 ug/l

RT: 13.97 min Scan# 2007

Delta R.T. 0.01 min

Lab File: VY003127.D

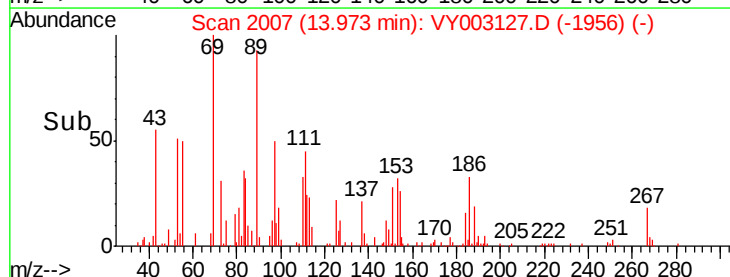
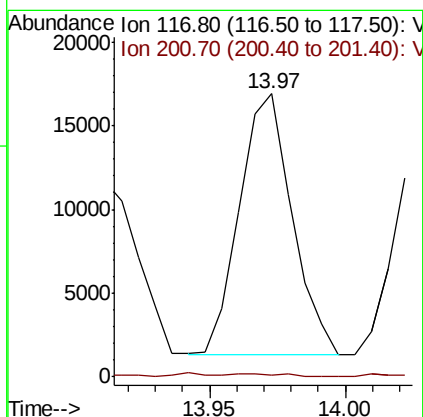
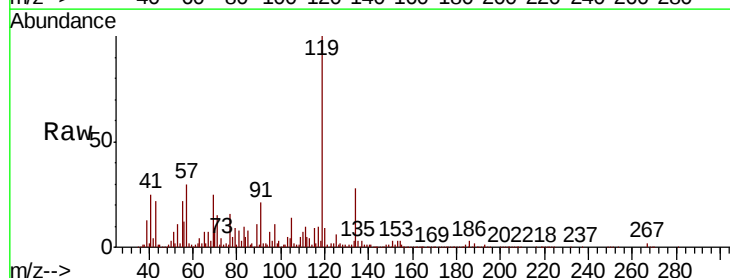
Acq: 07 Jul 2020 15:26

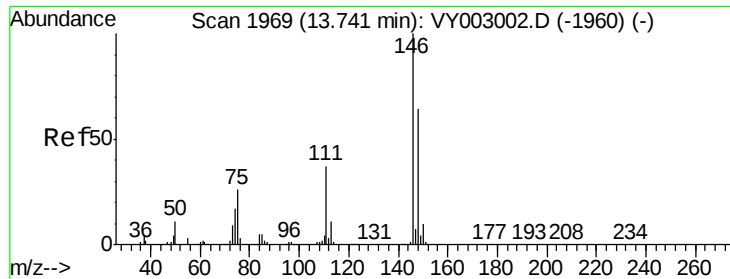
Tgt Ion: 117 Resp: 20920

Ion Ratio Lower Upper

117 100

201 1.2 45.5 136.4#

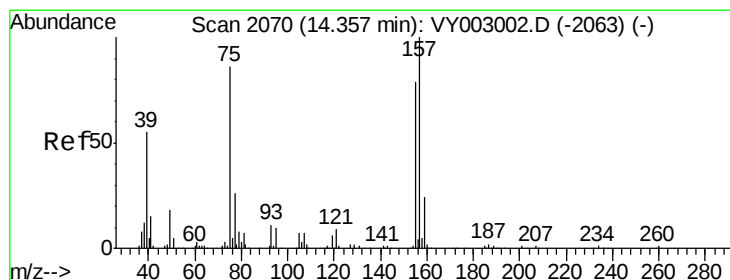
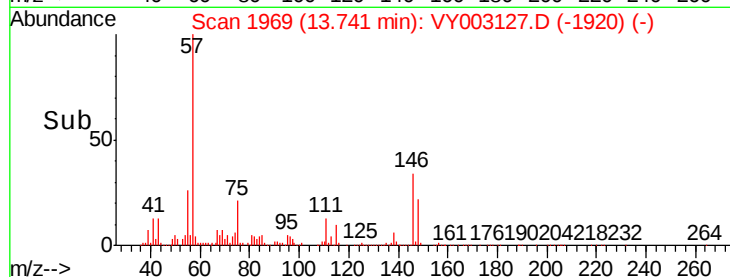
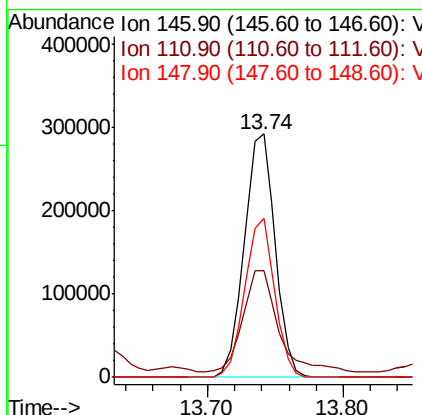
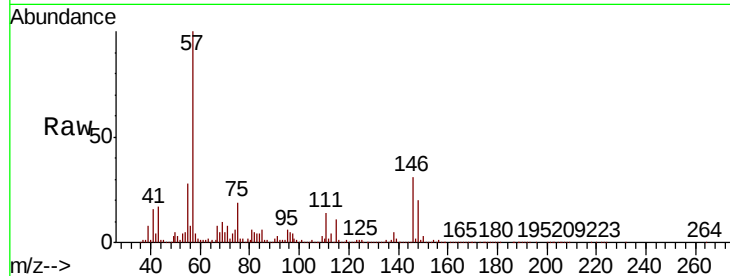




#91  
 1,2-Dichlorobenzene  
 Concen: 87.861 ug/l  
 RT: 13.74 min Scan# 1969  
 Delta R.T. 0.00 min  
 Lab File: VY003127.D  
 Acq: 07 Jul 2020 15:26

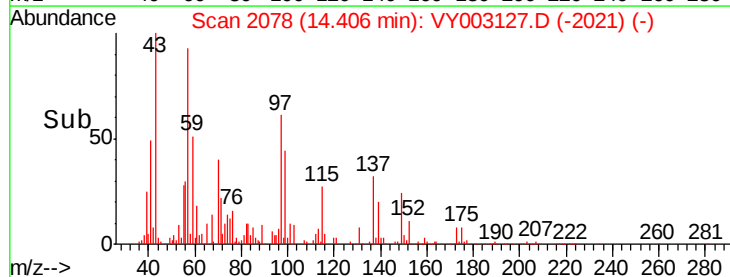
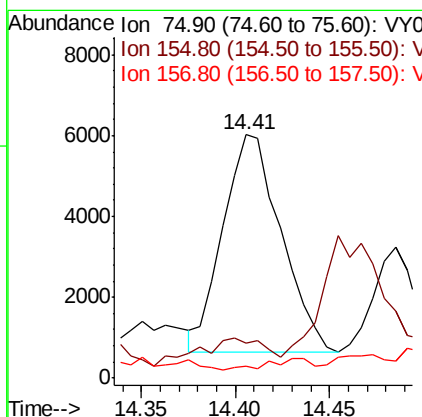
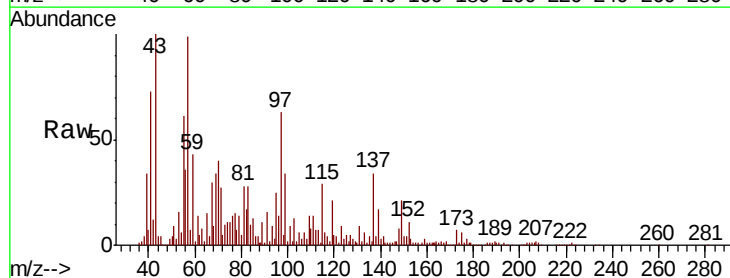
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 E3-41-NHS

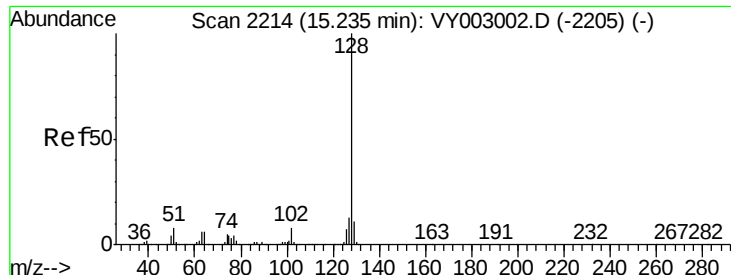
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 49.5  | 19.1  | 57.5  |
| 148     | 63.0  | 31.8  | 95.3  |



#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 26.338 ug/l  
 RT: 14.41 min Scan# 2078  
 Delta R.T. 0.05 min  
 Lab File: VY003127.D  
 Acq: 07 Jul 2020 15:26

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 75      | 100   |       |        |
| 155     | 14.8  | 46.5  | 139.3# |
| 157     | 0.0   | 59.2  | 177.5# |





#95

Naphthalene

Concen: 5.912 ug/l

RT: 15.24 min Scan# 2215

Delta R.T. 0.01 min

Lab File: VY003127.D

Acq: 07 Jul 2020 15:26

Instrument :

MSVOA\_Y

ClientSampleId :

E3-41-NHS

Tot Ion:128 Resp: 42271

Ion Ratio Lower Upper

128 100

127 84.7 10.8 16.2#

129 8.8 8.8 13.2

