

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY040120\  
 Data File : VY002173.D  
 Acq On : 01 Apr 2020 19:03  
 Operator : SY/MD  
 Sample : L2129-21  
 Misc : 5.12G/5ML/MSVOA Y/SOIL  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Apr 02 06:24:49 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y032620S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 27 07:11:05 2020  
 Response via : Initial Calibration

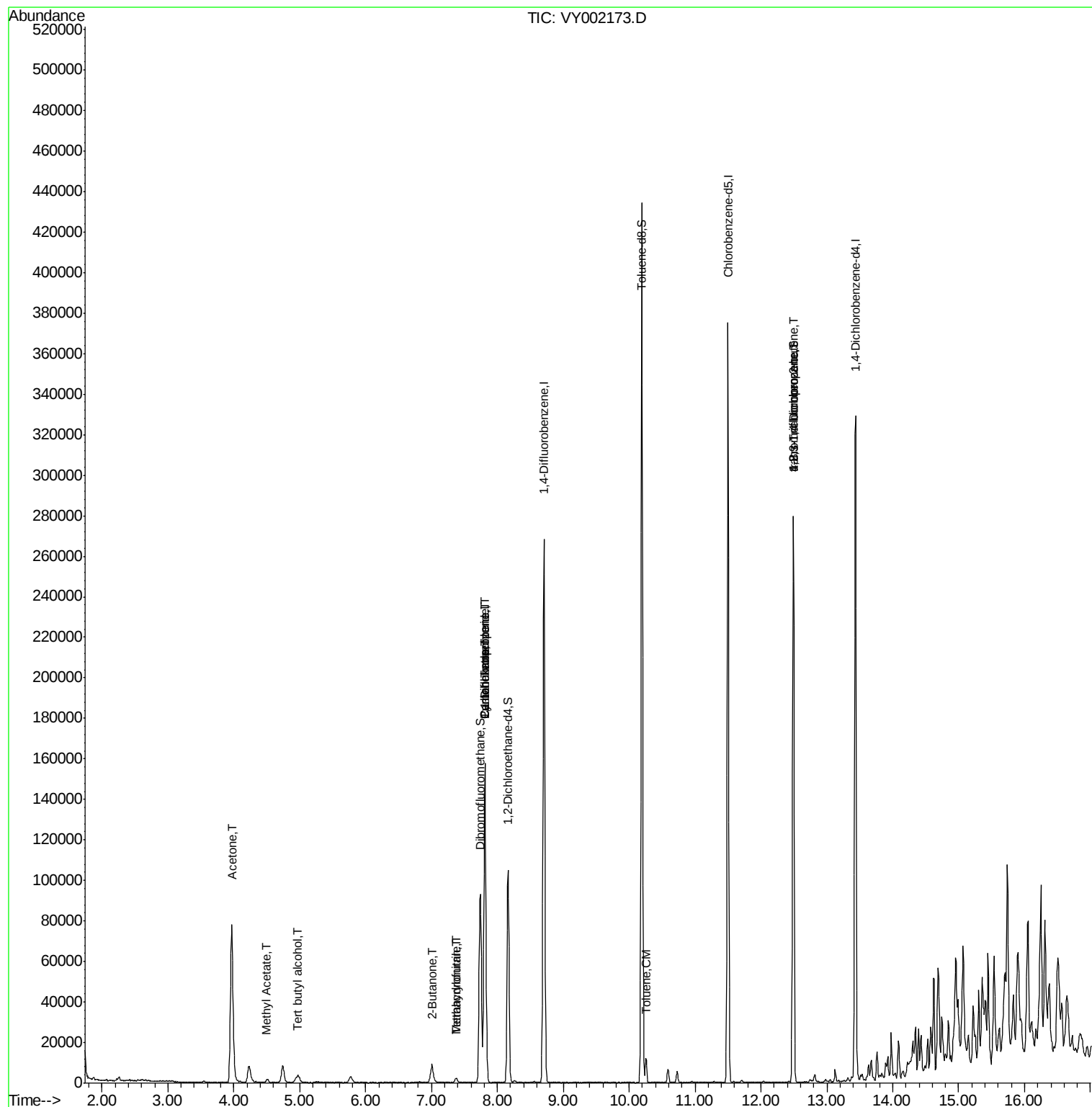
| Internal Standards             | R.T.   | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|--------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.81   | 168  | 115112   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.71   | 114  | 225625   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.50  | 117  | 203579   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.44  | 152  | 80578    | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |        |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.16   | 65   | 73760    | 57.96     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 115.92% |          |
| 35) Dibromofluoromethane       | 7.74   | 113  | 67406    | 53.32     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 106.64% |          |
| 50) Toluene-d8                 | 10.19  | 98   | 276094   | 52.57     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 105.14% |          |
| 62) 4-Bromofluorobenzene       | 12.49  | 95   | 86546    | 47.12     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 94.24%  |          |
| Target Compounds               |        |      |          |           |         |          |
|                                |        |      |          |           | Qvalue  |          |
| 11) Tert butyl alcohol         | 4.97   | 59   | 6763     | 45.099    | ug/l #  | 84       |
| 16) Acetone                    | 3.97   | 43   | 137673   | 385.081   | ug/l    | 98       |
| 18) Methyl Acetate             | 4.50   | 43   | 3152     | 3.395     | ug/l    | 91       |
| 20) Methylene Chloride         | 4.75   | 84   | 6044     | Below Cal |         | 98       |
| 25) 2-Butanone                 | 7.02   | 43   | 1677     | 3.055     | ug/l #  | 69       |
| 29) Tetrahydrofuran            | 7.36   | 42   | 2007     | 5.576     | ug/l    | 93       |
| 31) Cyclohexane                | 7.81   | 56   | 2767     | 1.044     | ug/l #  | 1        |
| 36) 1,1-Dichloropropene        | 7.81   | 75   | 10084    | 4.725     | ug/l #  | 50       |
| 38) Carbon Tetrachloride       | 7.81   | 117  | 11568    | 6.389     | ug/l #  | 16       |
| 41) Methacrylonitrile          | 7.38   | 41   | 1050     | 1.610     | ug/l #  | 100      |
| 52) Toluene                    | 10.25  | 92   | 4828     | 1.263     | ug/l    | 96       |
| 76) 1,2,3-Trichloropropane     | 12.49  | 75   | 44636    | 49.522    | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.49  | 75   | 44636    | 95.941    | ug/l #  | 17       |

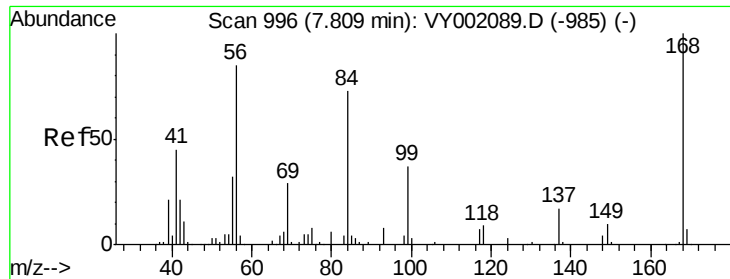
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY040120\  
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MSVOA\_Y  
ClientSampleId :

Quant Time: Apr 02 06:24:49 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y032620S.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 27 07:11:05 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.81 min Scan# 996

Delta R.T. 0.00 min

Lab File: VY002173.D

Acq: 01 Apr 2020 19:03

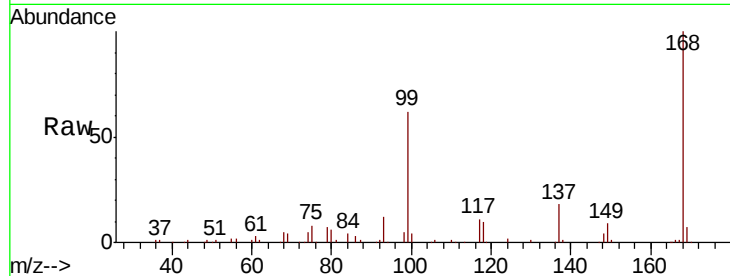
Instrument :  
MSVOA\_Y  
ClientSampled :

Tot Ion:168 Resp: 115112

Ion Ratio Lower Upper

168 100

99 62.1 47.6 71.4

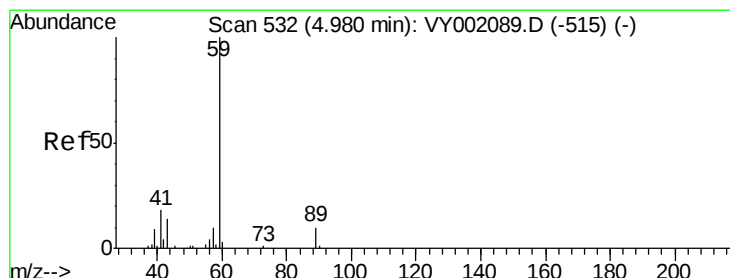
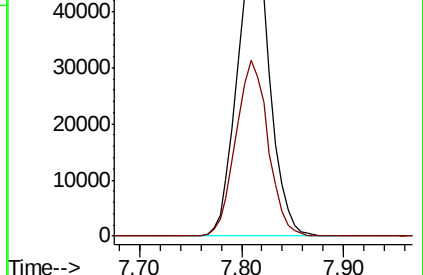
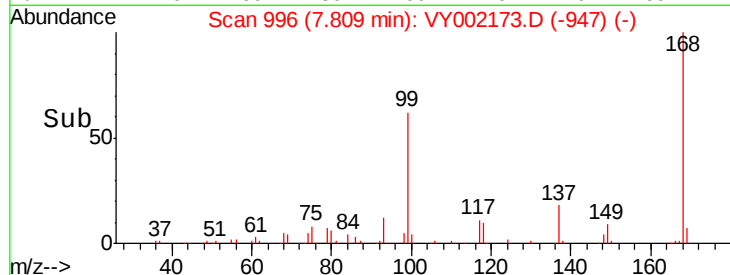


Abundance Ion 167.90 (167.60 to 168.60): VY002173.D (-947) (-)

Ion 98.90 (98.60 to 99.60): VY002173.D (-947) (-)

7.81

Time-->



#11

Tert butyl alcohol

Concen: 45.099 ug/l

RT: 4.97 min Scan# 531

Delta R.T. -0.01 min

Lab File: VY002173.D

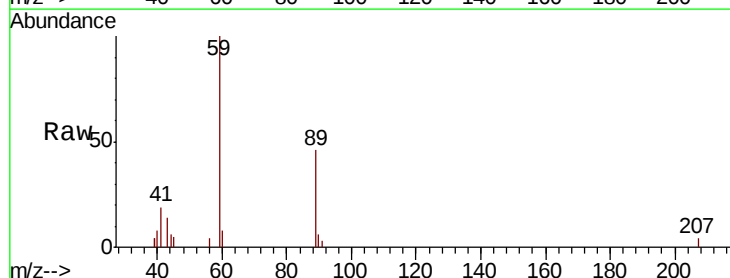
Acq: 01 Apr 2020 19:03

Tgt Ion: 59 Resp: 6763

Ion Ratio Lower Upper

59 100

57 3.6 7.7 11.5#

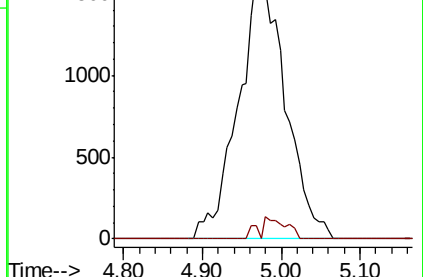
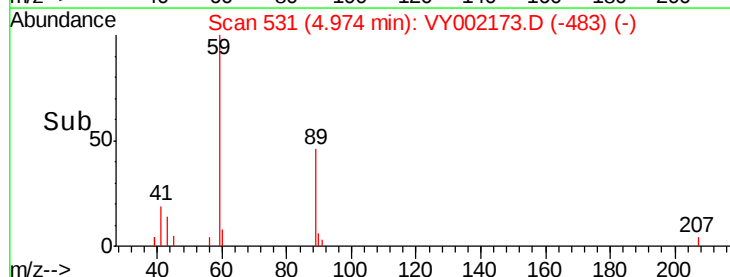


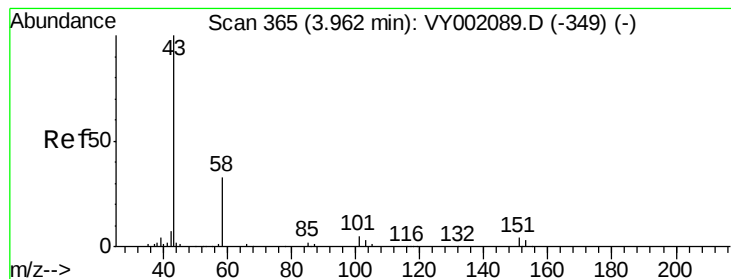
Abundance Ion 59.00 (58.70 to 59.70): VY002173.D (-483) (-)

Ion 57.00 (56.70 to 57.70): VY002173.D (-483) (-)

4.97

Time-->





#16

Acetone

Concen: 385.081 ug/l

RT: 3.97 min Scan# 366

Delta R.T. 0.01 min

Lab File: VY002173.D

Acq: 01 Apr 2020 19:03

Instrument :

MSVOA\_Y

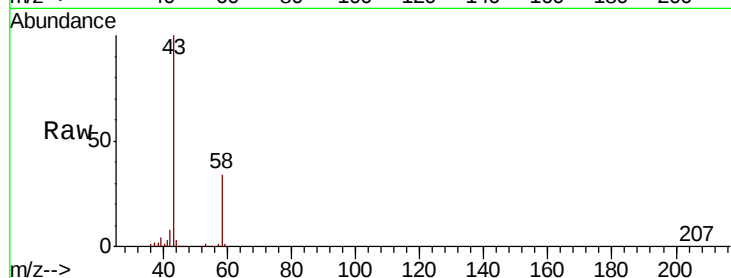
ClientSampled :

Tot Ion: 43 Resp: 137673

Ion Ratio Lower Upper

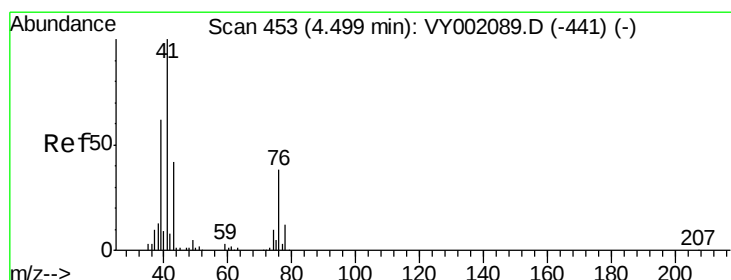
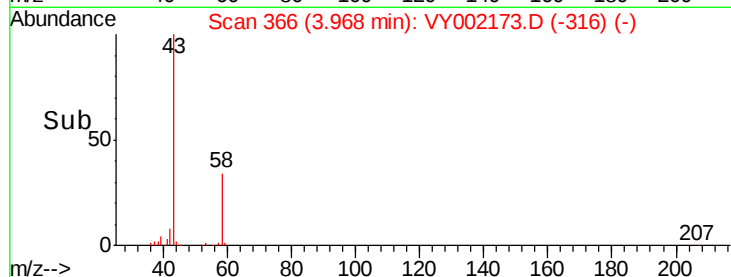
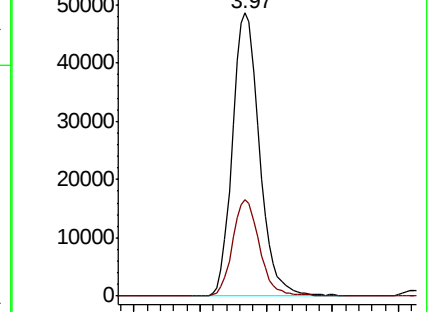
43 100

58 34.2 26.3 39.5



Abundance Ion 43.00 (42.70 to 43.70): VY002173.D (-366) (-)

Ion 58.00 (57.70 to 58.70): VY002173.D (-366) (-)



#18

Methyl Acetate

Concen: 3.395 ug/l

RT: 4.50 min Scan# 453

Delta R.T. 0.00 min

Lab File: VY002173.D

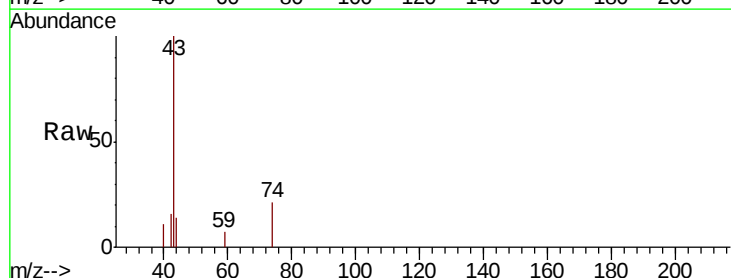
Acq: 01 Apr 2020 19:03

Tgt Ion: 43 Resp: 3152

Ion Ratio Lower Upper

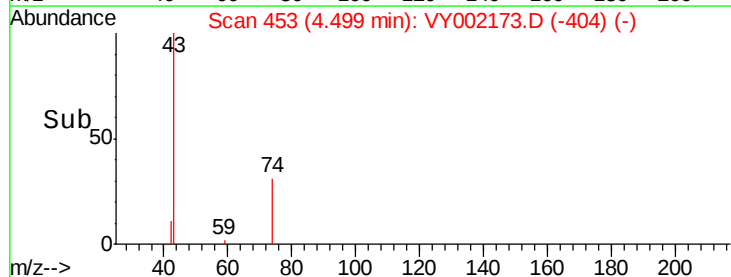
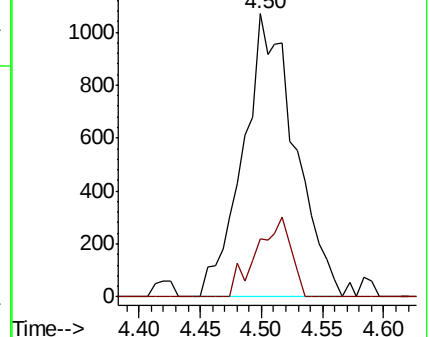
43 100

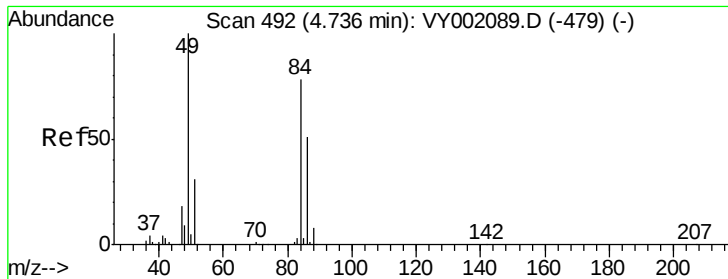
74 18.5 18.3 27.5



Abundance Ion 43.00 (42.70 to 43.70): VY002173.D (-453) (-)

Ion 74.00 (73.70 to 74.70): VY002173.D (-453) (-)

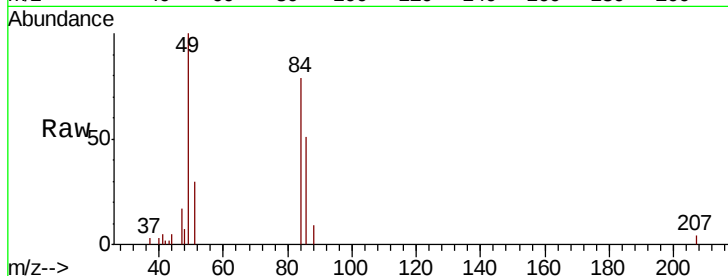




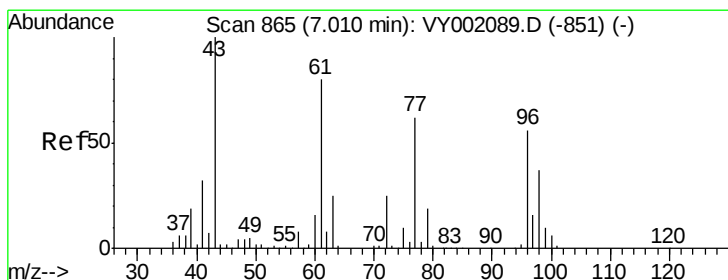
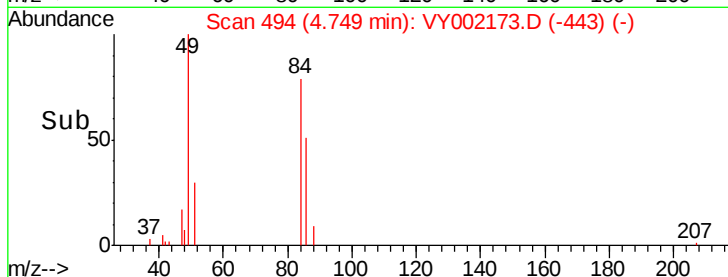
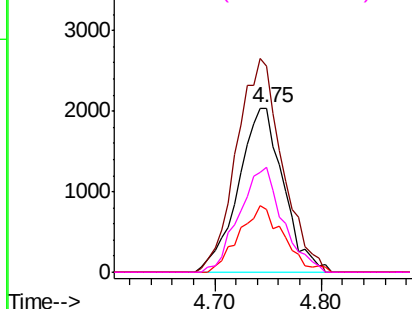
#20  
Methvlene Chloride  
Concen: Below Cal  
RT: 4.75 min Scan# 494  
Delta R.T. 0.01 min  
Lab File: VY002173.D  
Acq: 01 Apr 2020 19:03

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion: 84 Resp: 6044  
Ion Ratio Lower Upper  
84 100  
49 126.1 102.2 153.4  
51 38.0 31.2 46.8  
86 64.3 52.6 78.8

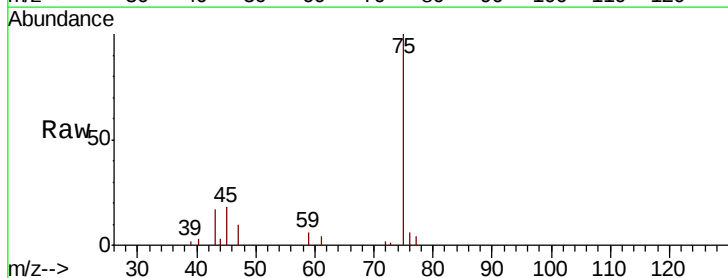


Abundance Ion 83.90 (83.60 to 84.60): VY0  
Ion 48.90 (48.60 to 49.60): VY0  
Ion 50.90 (50.60 to 51.60): VY0  
Ion 85.90 (85.60 to 86.60): VY0

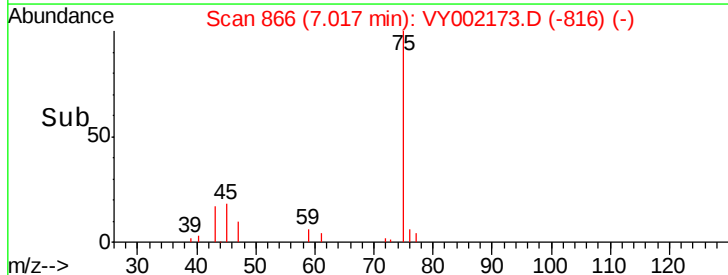
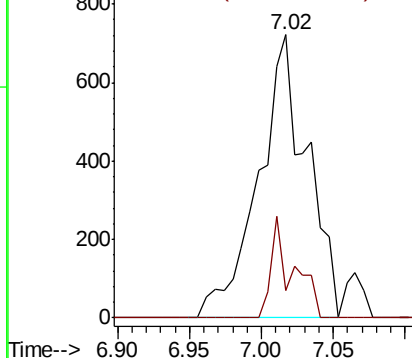


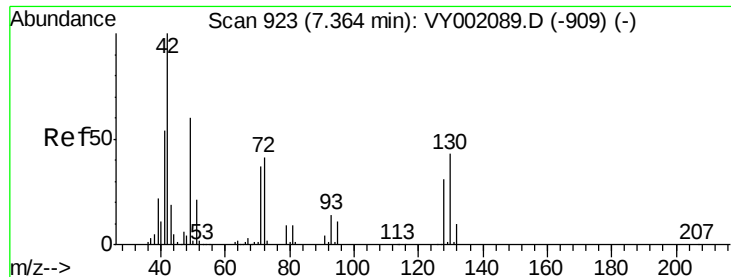
#25  
2-Butanone  
Concen: 3.055 ug/l  
RT: 7.02 min Scan# 866  
Delta R.T. 0.01 min  
Lab File: VY002173.D  
Acq: 01 Apr 2020 19:03

Tgt Ion: 43 Resp: 1677  
Ion Ratio Lower Upper  
43 100  
72 9.8 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VY0  
Ion 72.00 (71.70 to 72.70): VY0

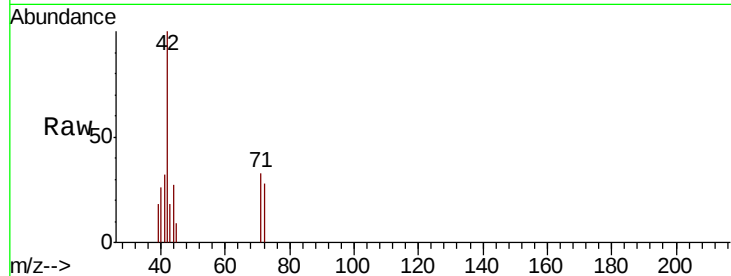




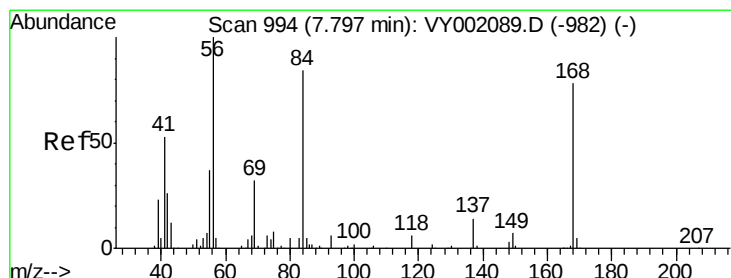
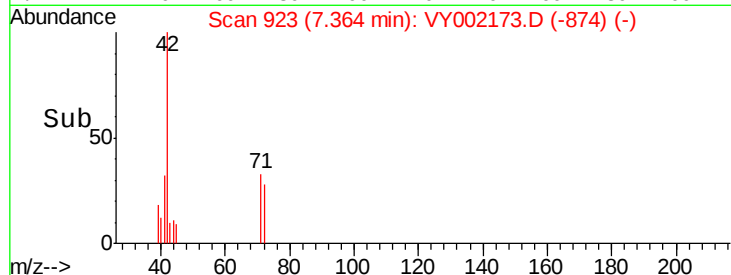
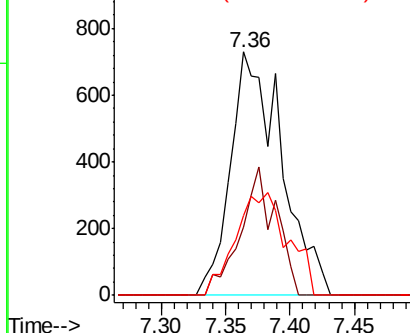
#29  
Tetrahydrofuran  
Concen: 5.576 ug/l  
RT: 7.36 min Scan# 923  
Delta R.T. 0.00 min  
Lab File: VY002173.D  
Acq: 01 Apr 2020 19:03

Instrument :  
MSVOA\_Y  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 36.7  | 33.0  | 49.4  |
| 71      | 43.2  | 31.2  | 46.8  |

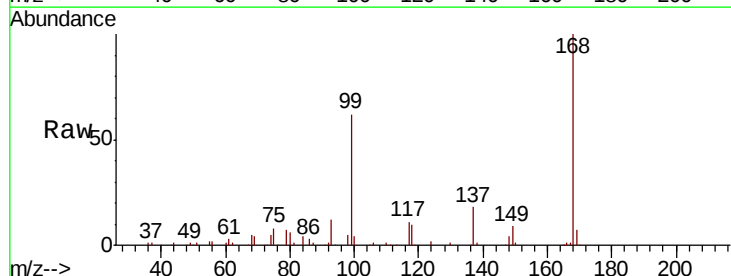


Abundance Ion 42.00 (41.70 to 42.70): VY0  
Ion 72.00 (71.70 to 72.70): VY0  
Ion 71.00 (70.70 to 71.70): VY0

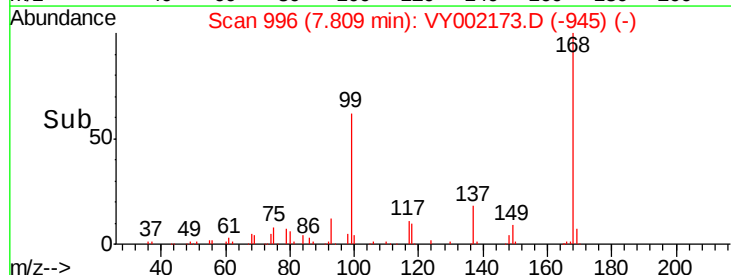
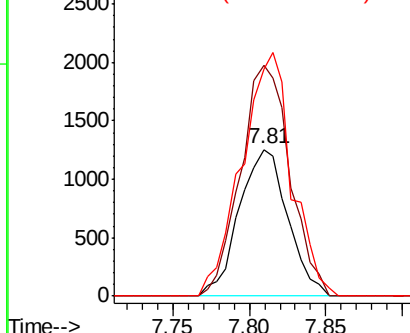


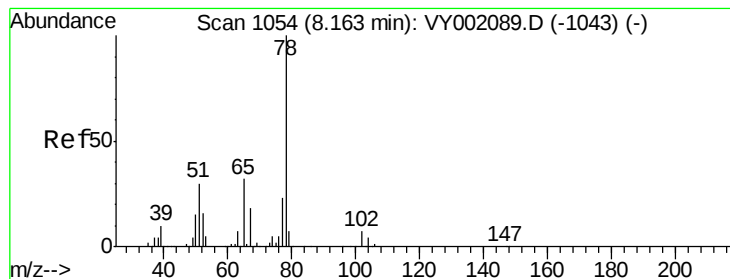
#31  
Cyclohexane  
Concen: 1.044 ug/l  
RT: 7.81 min Scan# 996  
Delta R.T. 0.01 min  
Lab File: VY002173.D  
Acq: 01 Apr 2020 19:03

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 56      | 100   |       |        |
| 69      | 157.9 | 25.8  | 38.8#  |
| 84      | 155.3 | 67.1  | 100.7# |



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





#33

1,2-Dichloroethane-d4

Concen: 57.963 ug/l

RT: 8.16 min Scan# 1054

Delta R.T. 0.00 min

Lab File: VY002173.D

Acq: 01 Apr 2020 19:03

Instrument :

MSVOA\_Y

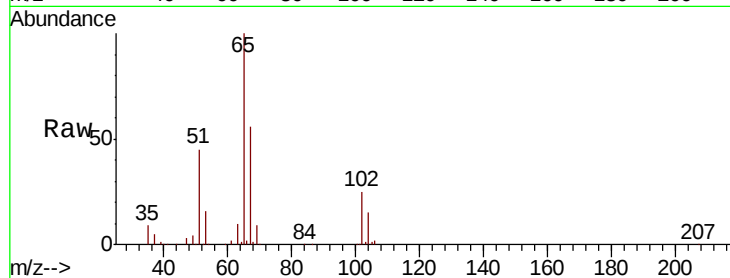
ClientSampleId :

Tot Ion: 65 Resp: 73760

Ion Ratio Lower Upper

65 100

67 55.2 0.0 112.8



Abundance Ion 64.90 (64.60 to 65.60): VY002173.D (-1043) (-)

Ion 66.90 (66.60 to 67.60): VY002173.D (-1043) (-)

8.16

40000

30000

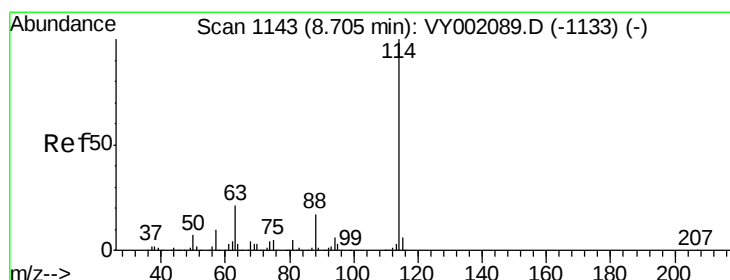
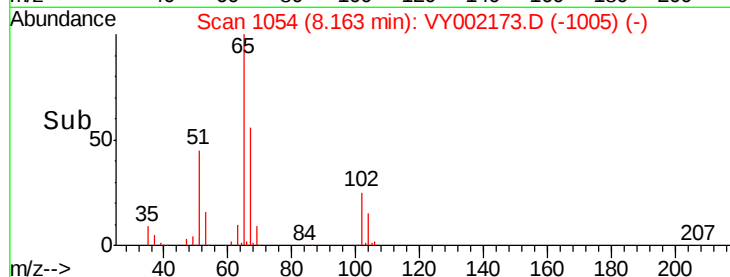
20000

10000

0

8.05 8.10 8.15 8.20 8.25

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.71 min Scan# 1143

Delta R.T. 0.00 min

Lab File: VY002173.D

Acq: 01 Apr 2020 19:03

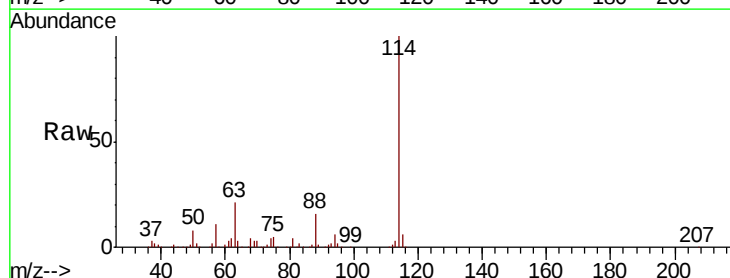
Tgt Ion: 114 Resp: 225625

Ion Ratio Lower Upper

114 100

63 21.3 0.0 41.4

88 15.7 0.0 33.0



Abundance Ion 113.90 (113.60 to 114.60): VY002173.D (-1094) (-)

Ion 63.00 (62.70 to 63.70): VY002173.D (-1094) (-)

Ion 87.90 (87.60 to 88.60): VY002173.D (-1094) (-)

8.71

150000

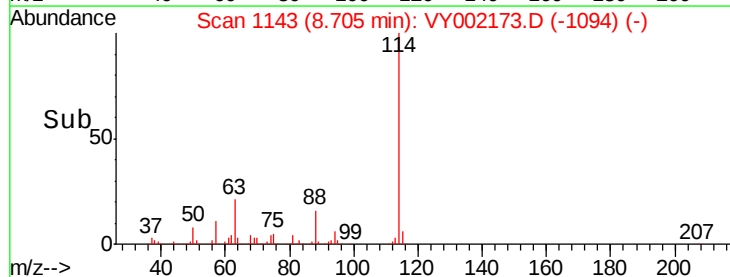
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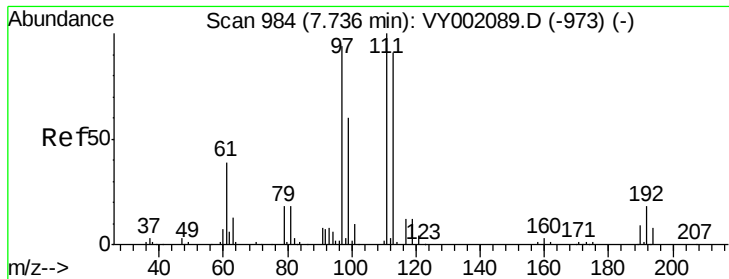
50000

0

8.60 8.65 8.70 8.75 8.80

Time-->

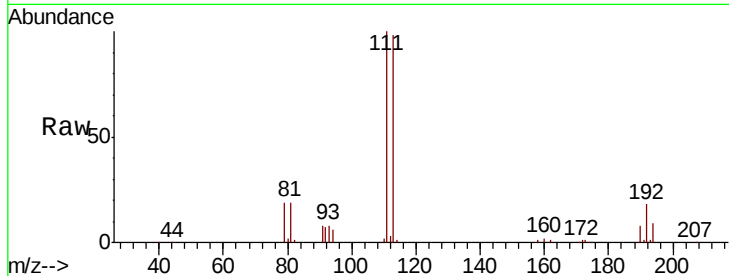




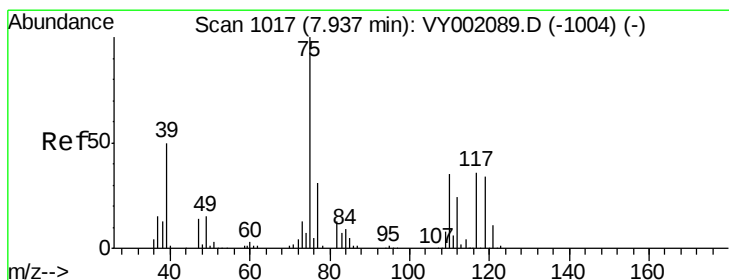
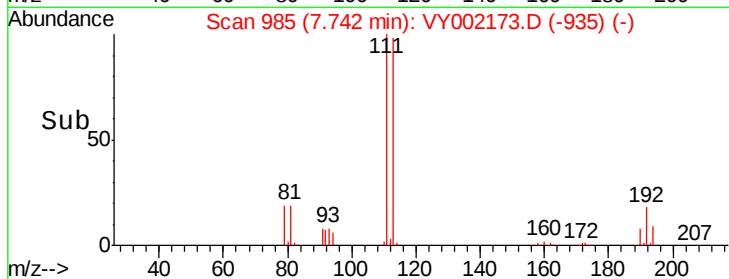
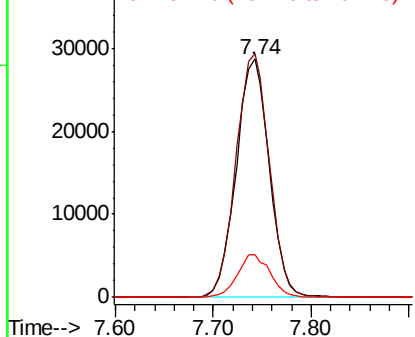
#35  
 Dibromofluoromethane  
 Concen: 53.319 ug/l  
 RT: 7.74 min Scan# 985  
 Delta R.T. 0.01 min  
 Lab File: VY002173.D  
 Acq: 01 Apr 2020 19:03

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Tot Ion:113 Resp: 67406  
 Ion Ratio Lower Upper  
 113 100  
 111 103.3 84.4 126.6  
 192 17.8 14.6 21.8

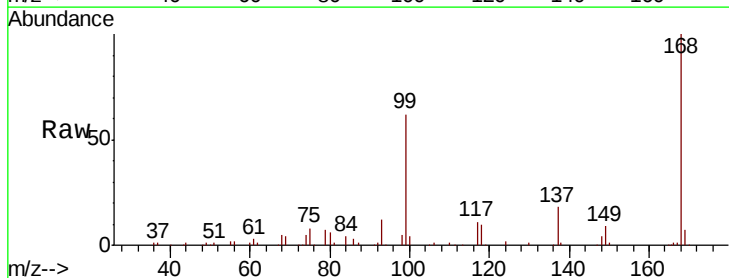


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

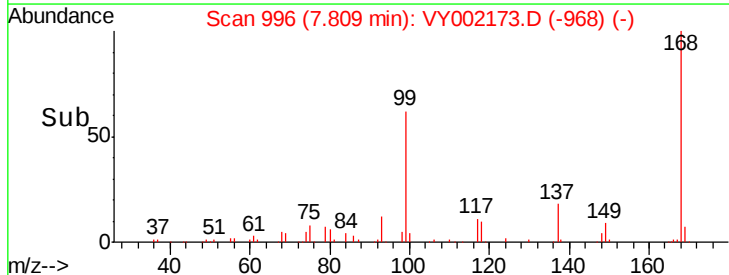
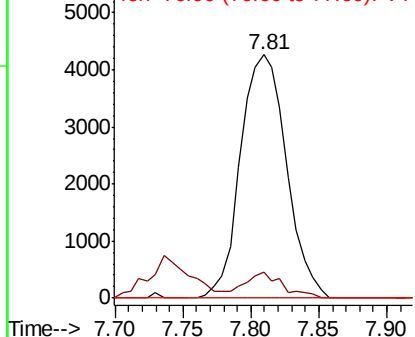


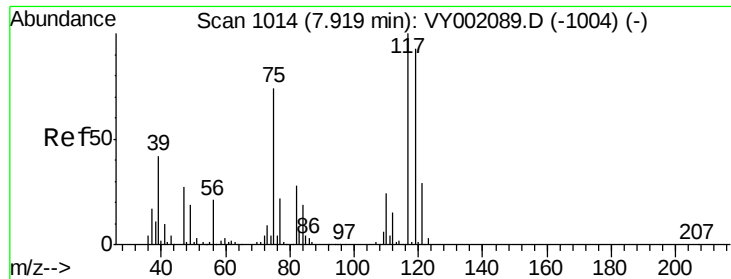
#36  
 1,1-Dichloropropene  
 Concen: 4.725 ug/l  
 RT: 7.81 min Scan# 996  
 Delta R.T. -0.13 min  
 Lab File: VY002173.D  
 Acq: 01 Apr 2020 19:03

Tgt Ion: 75 Resp: 10084  
 Ion Ratio Lower Upper  
 75 100  
 110 9.0 17.2 51.6#  
 77 0.0 24.7 37.1#



Abundance Ion 74.90 (74.60 to 75.60): VY0  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): VY0

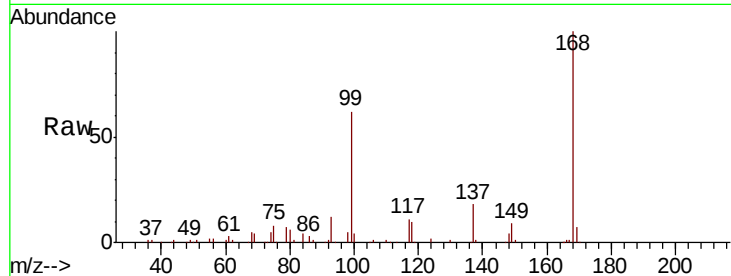




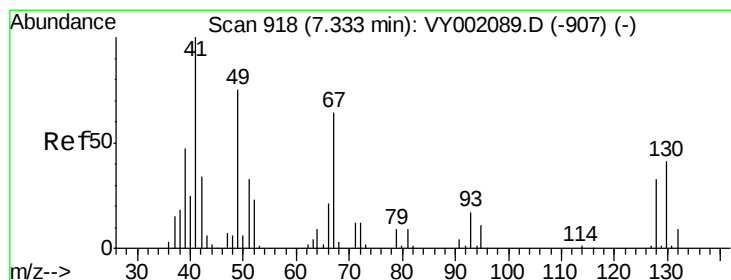
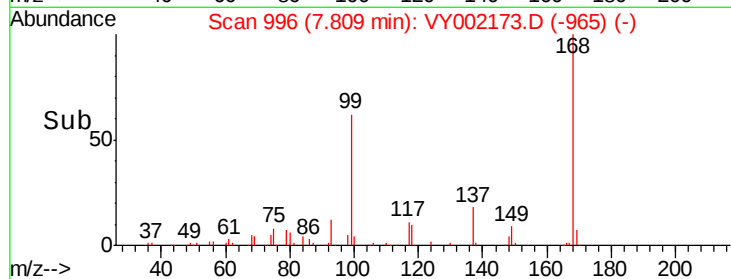
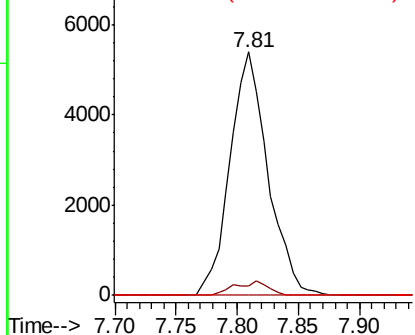
#38  
Carbon Tetrachloride  
Concen: 6.389 ug/l  
RT: 7.81 min Scan# 996  
Delta R.T. -0.11 min  
Lab File: VY002173.D  
Acq: 01 Apr 2020 19:03

Instrument :  
MSVOA\_Y  
ClientSampled :

Tot Ion:117 Resp: 11568  
Ion Ratio Lower Upper  
117 100  
119 3.9 74.3 111.5#  
121 0.0 23.3 34.9#

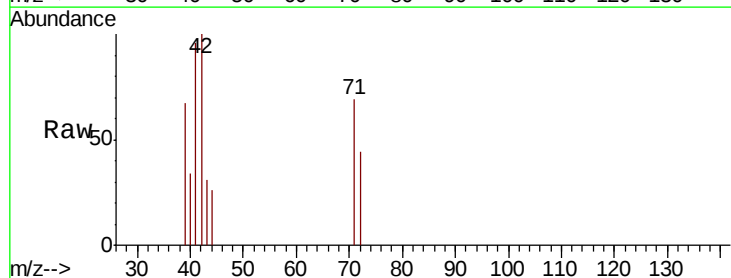


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

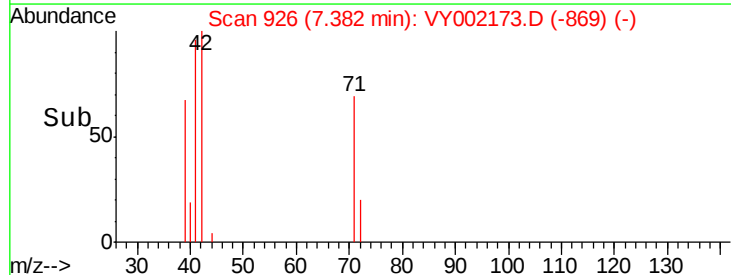
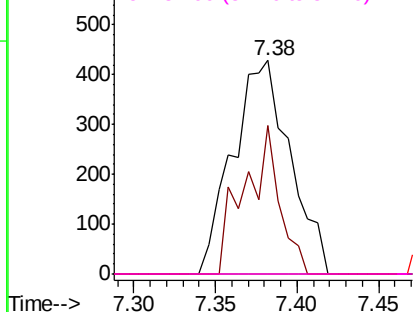


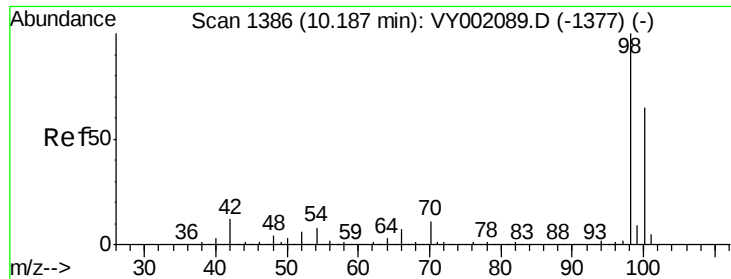
#41  
Methacrylonitrile  
Concen: 1.610 ug/l  
RT: 7.38 min Scan# 926  
Delta R.T. 0.05 min  
Lab File: VY002173.D  
Acq: 01 Apr 2020 19:03

Tgt Ion: 41 Resp: 1050  
Ion Ratio Lower Upper  
41 100  
39 43.0 0.0 0.0#  
67 0.0 0.0 0.0  
52 0.0 0.0 0.0



Abundance Ion 41.00 (40.70 to 41.70): VY0  
Ion 39.00 (38.70 to 39.70): VY0  
Ion 67.00 (66.70 to 67.70): VY0  
Ion 52.00 (51.70 to 52.70): VY0





#50

Toluene-d8

Concen: 52.571 ug/l

RT: 10.19 min Scan# 1387

Delta R.T. 0.01 min

Lab File: VY002173.D

Acq: 01 Apr 2020 19:03

Instrument :

MSVOA\_Y

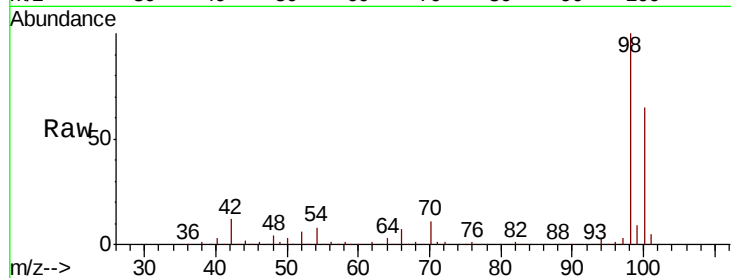
ClientSampleId :

Tot Ion: 98 Resp: 276094

Ion Ratio Lower Upper

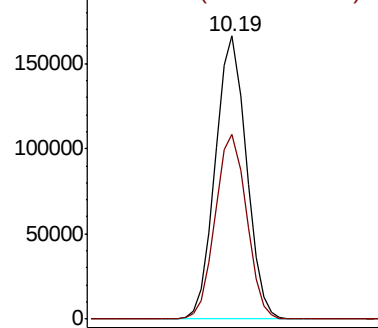
98 100

100 66.0 51.6 77.4

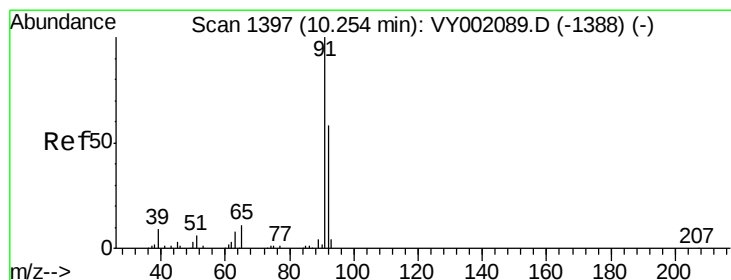
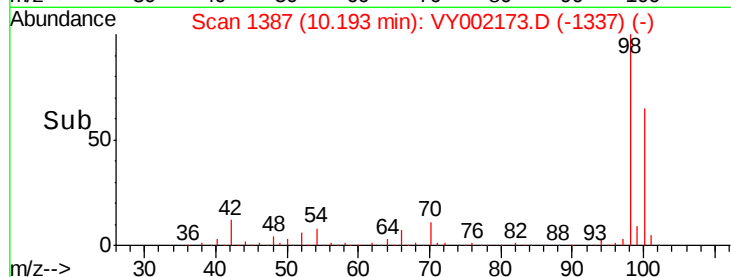


Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY0



Time-->



#52

Toluene

Concen: 1.263 ug/l

RT: 10.25 min Scan# 1397

Delta R.T. 0.00 min

Lab File: VY002173.D

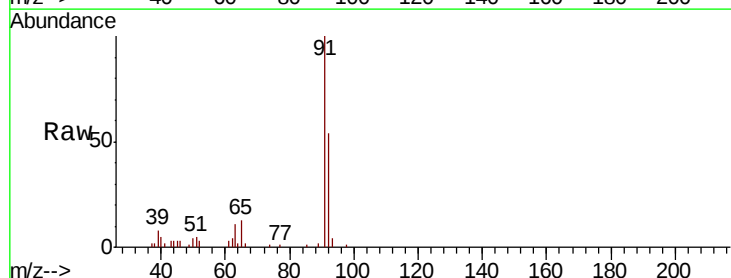
Acq: 01 Apr 2020 19:03

Tgt Ion: 92 Resp: 4828

Ion Ratio Lower Upper

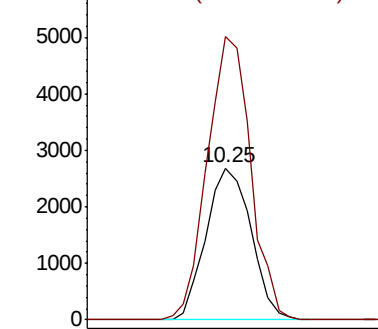
92 100

91 179.6 139.3 208.9

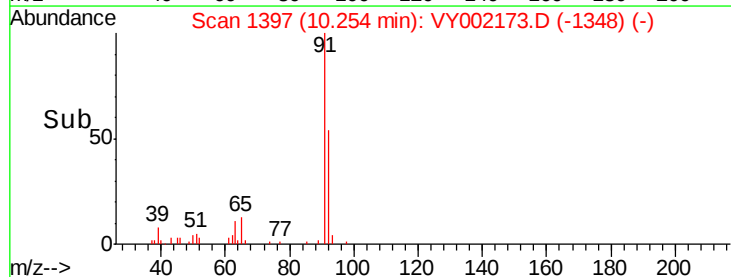


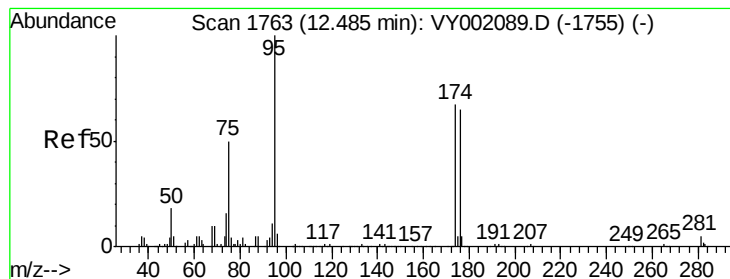
Abundance Ion 92.00 (91.70 to 92.70): VY0

Ion 91.00 (90.70 to 91.70): VY0



Time-->





#62

4-Bromofluorobenzene

Concen: 47.119 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.01 min

Lab File: VY002173.D

Acq: 01 Apr 2020 19:03

Instrument :

MSVOA\_Y

ClientSampleId :

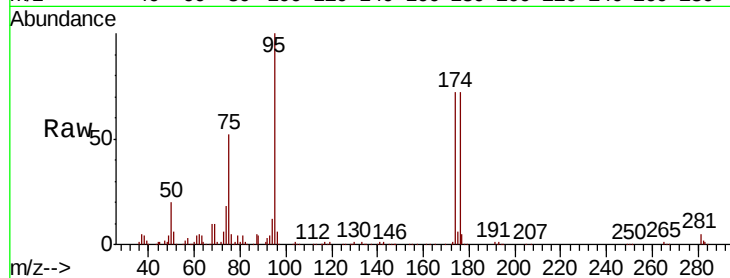
Tot Ion: 95 Resp: 86546

Ion Ratio Lower Upper

95 100

174 72.6 0.0 143.4

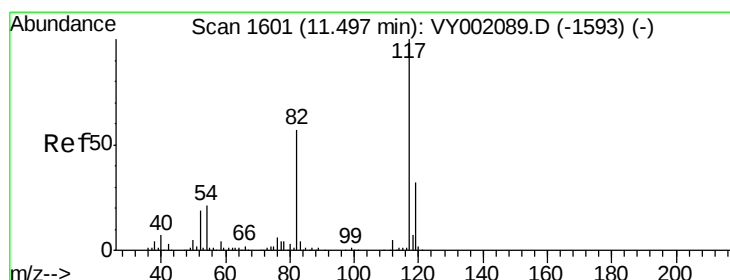
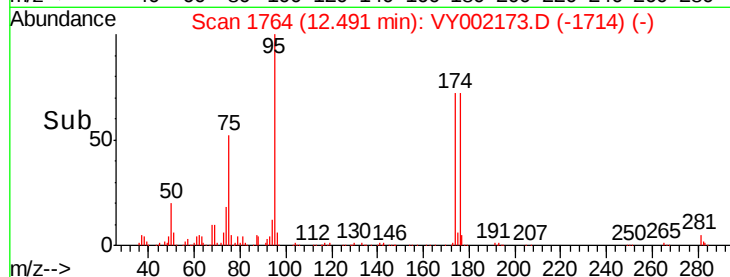
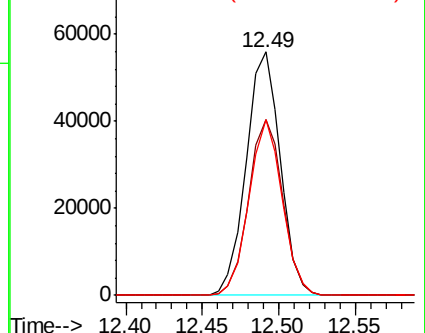
176 70.5 0.0 137.0



Abundance Ion 94.90 (94.60 to 95.60): VY002173.D (-1755) (-)

Ion 173.80 (173.50 to 174.50): VY002173.D (-1755) (-)

Ion 175.80 (175.50 to 176.50): VY002173.D (-1755) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.50 min Scan# 1602

Delta R.T. 0.01 min

Lab File: VY002173.D

Acq: 01 Apr 2020 19:03

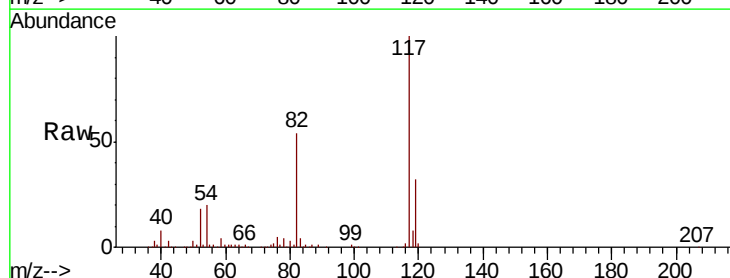
Tgt Ion: 117 Resp: 203579

Ion Ratio Lower Upper

117 100

82 54.3 45.4 68.2

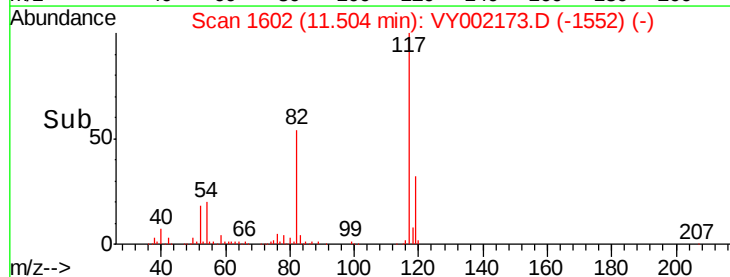
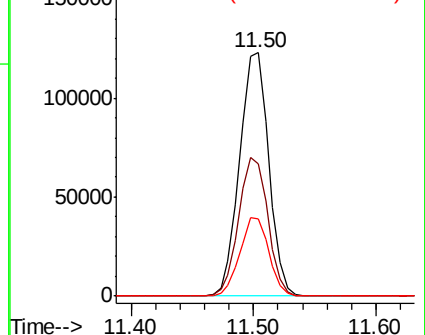
119 31.9 25.3 37.9

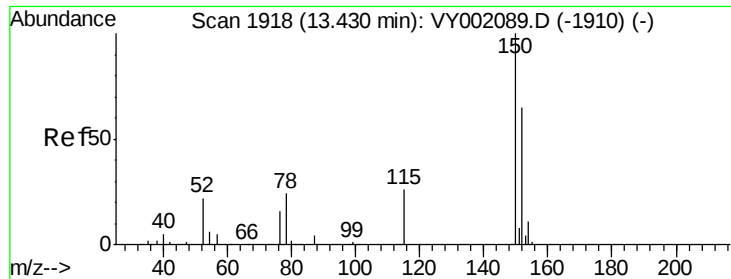


Abundance Ion 116.90 (116.60 to 117.60): VY002173.D (-1552) (-)

Ion 82.00 (81.70 to 82.70): VY002173.D (-1552) (-)

Ion 118.90 (118.60 to 119.60): VY002173.D (-1552) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.44 min Scan# 1919

Delta R.T. 0.01 min

Lab File: VY002173.D

Acq: 01 Apr 2020 19:03

Instrument :

MSVOA\_Y

ClientSampleId :

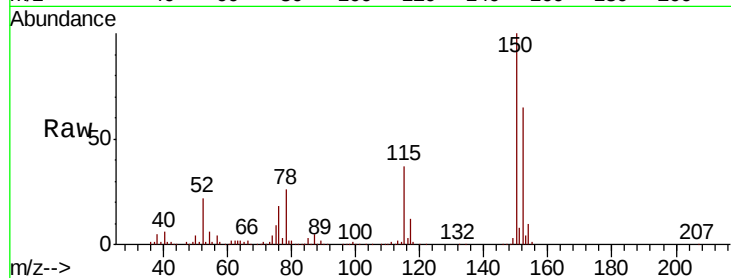
Tot Ion:152 Resp: 80578

Ion Ratio Lower Upper

152 100

115 60.6 31.2 93.6

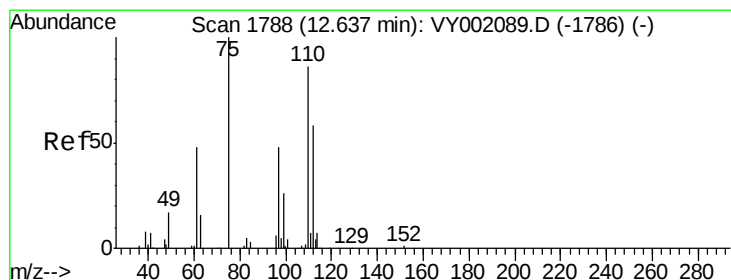
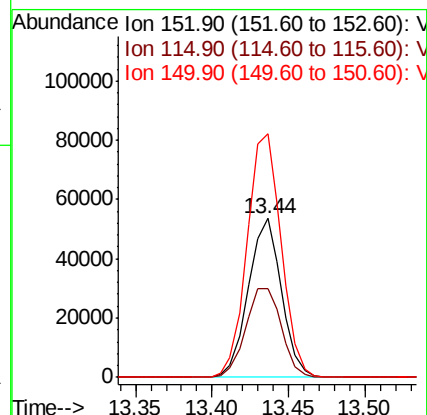
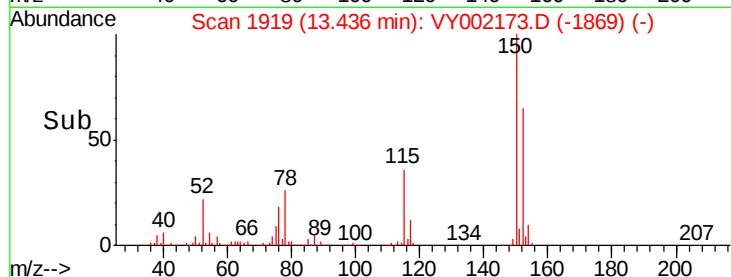
150 157.6 0.0 354.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 49.522 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.15 min

Lab File: VY002173.D

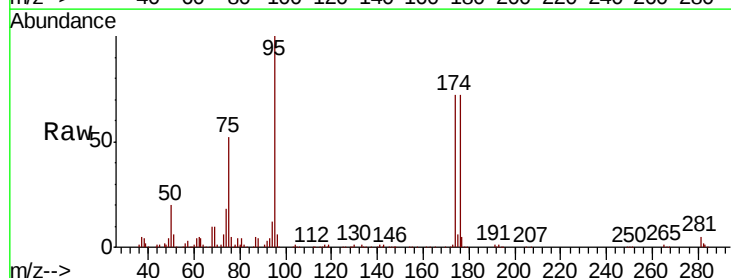
Acq: 01 Apr 2020 19:03

Tgt Ion: 75 Resp: 44636

Ion Ratio Lower Upper

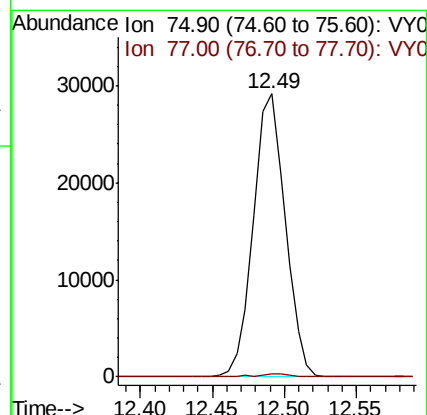
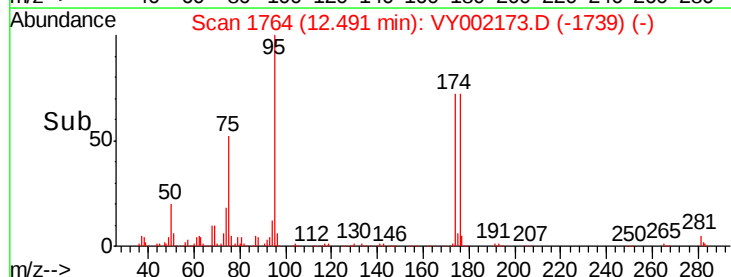
75 100

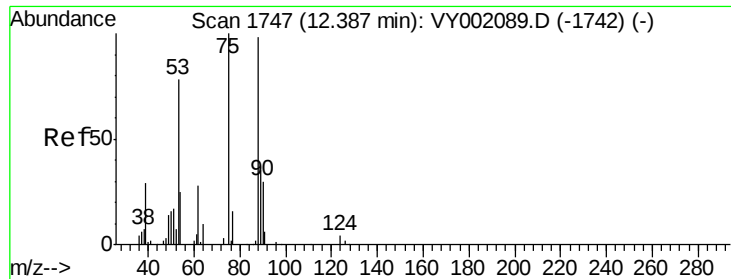
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0





#81

trans-1,4-Dichloro-2-butene

Concen: 95.941 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.10 min

Lab File: VY002173.D

Acq: 01 Apr 2020 19:03

Instrument :

MSVOA\_Y

ClientSampleId :

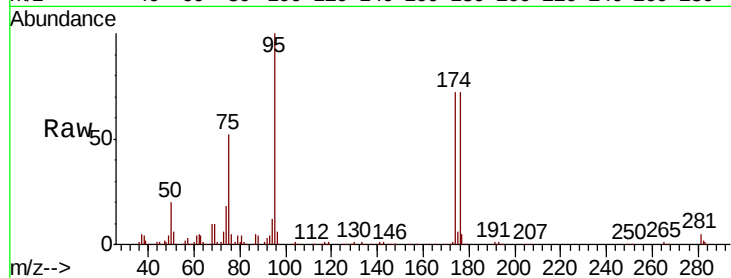
Tot Ion: 75 Resp: 44636

Ion Ratio Lower Upper

75 100

53 0.0 65.0 97.4#

89 0.0 33.4 50.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0

