

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY031820\  
 Data File : VY002008.D  
 Acq On : 18 Mar 2020 16:20  
 Operator : SY/MD  
 Sample : L1964-01  
 Misc : 5.92G/5ML/MSVOA Y/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 2000448388

Quant Time: Mar 19 01:27:02 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y030420S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 05 04:05:33 2020  
 Response via : Initial Calibration

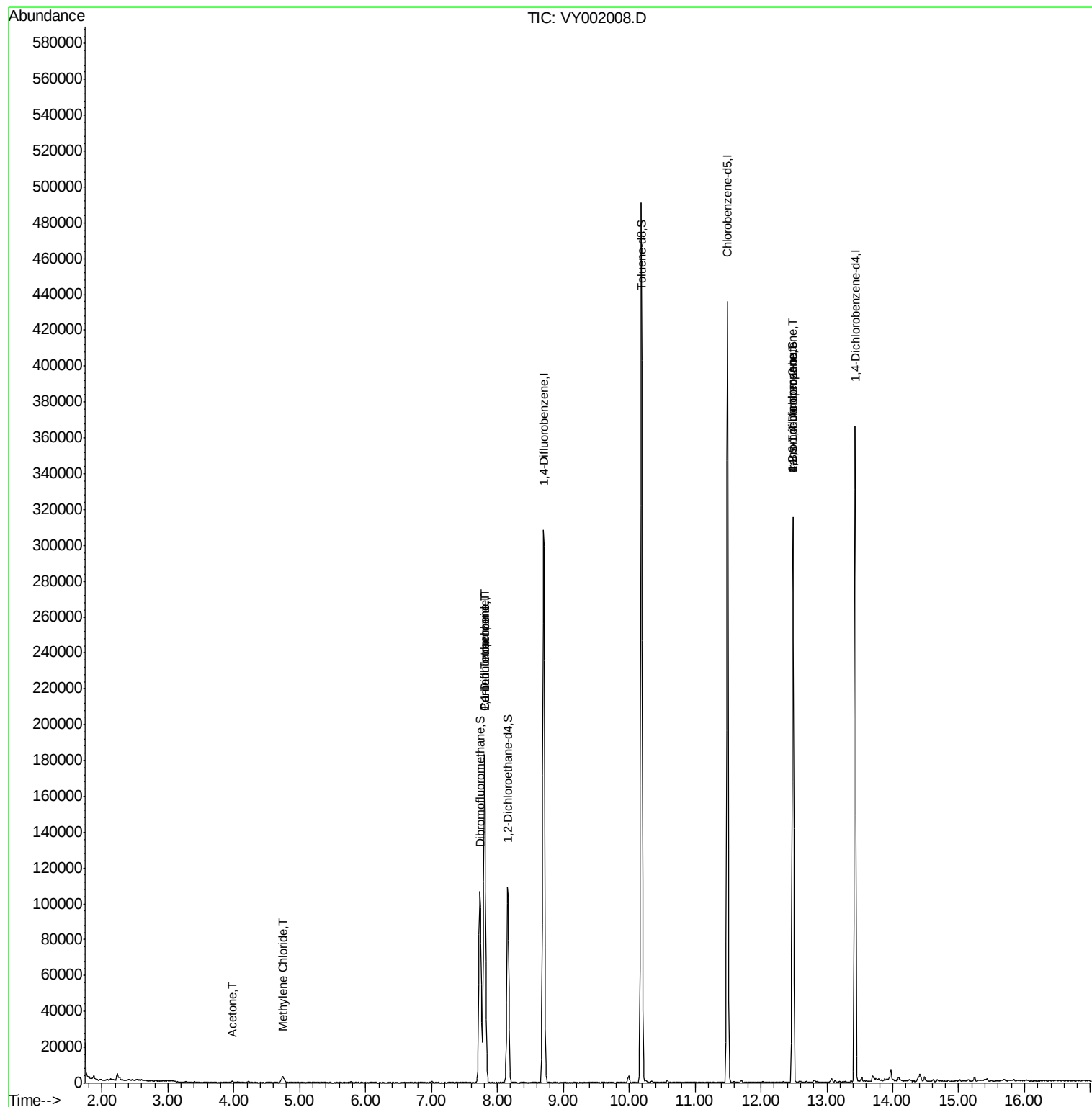
| Internal Standards             | R.T.   | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|--------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.81   | 168  | 138048   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.71   | 114  | 267960   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.49  | 117  | 236147   | 50.00     | ug/l    | -0.01    |
| 72) 1,4-Dichlorobenzene-d4     | 13.43  | 152  | 87790    | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |        |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.16   | 65   | 81210    | 55.10     | ug/l    | -0.01    |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 110.20% |          |
| 35) Dibromofluoromethane       | 7.74   | 113  | 77848    | 53.20     | ug/l    | -0.01    |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 106.40% |          |
| 50) Toluene-d8                 | 10.19  | 98   | 324047   | 52.52     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 105.04% |          |
| 62) 4-Bromofluorobenzene       | 12.49  | 95   | 100238   | 46.72     | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 93.44%  |          |
| Target Compounds               |        |      |          |           |         |          |
| 5) Bromomethane                | 2.67   | 94   | 53       | Below Cal | #       | 4        |
| 11) Tert butyl alcohol         | 4.96   | 59   | 61       | Below Cal | #       | 74       |
| 16) Acetone                    | 3.97   | 43   | 827      | 1.927     | ug/l    | 91       |
| 20) Methylene Chloride         | 4.75   | 84   | 2540     | 1.381     | ug/l    | 90       |
| 36) 1,1-Dichloropropene        | 7.80   | 75   | 11715    | 4.543     | ug/l #  | 50       |
| 38) Carbon Tetrachloride       | 7.80   | 117  | 14364    | 6.521     | ug/l #  | 15       |
| 76) 1,2,3-Trichloropropane     | 12.49  | 75   | 50562    | 48.539    | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.49  | 75   | 50562    | 98.046    | ug/l #  | 17       |

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

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Quant Time: Mar 19 01:27:02 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y030420S.M  
Quant Title : SW846 8260  
QLast Update : Thu Mar 05 04:05:33 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.81 min Scan# 996

Delta R.T. -0.01 min

Lab File: VY002008.D

Acq: 18 Mar 2020 16:20

Instrument :

MSVOA\_Y

ClientSampleId :

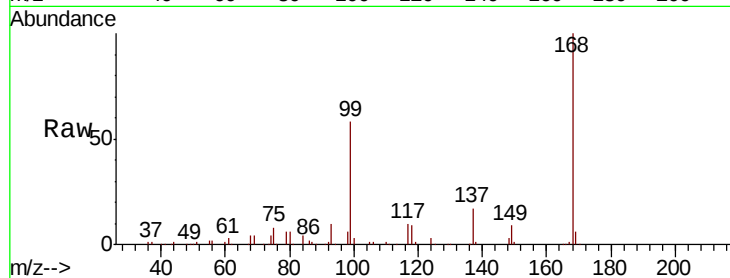
2000448388

Tot Ion:168 Resp: 138048

Ion Ratio Lower Upper

168 100

99 58.3 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): VY001845.D (-986) (-)

Ion 98.90 (98.60 to 99.60): VY001845.D (-986) (-)

7.81

60000

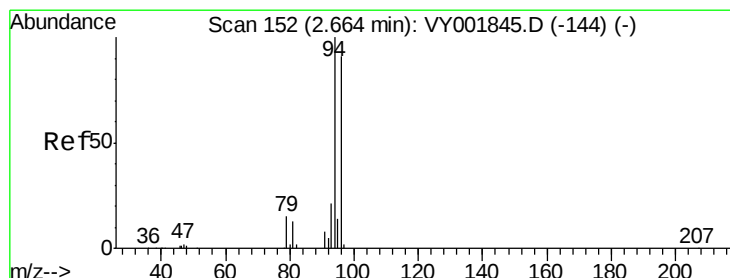
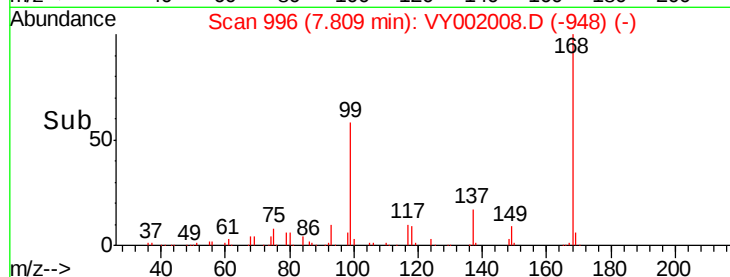
40000

20000

0

7.70 7.80 7.90

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.67 min Scan# 153

Delta R.T. 0.01 min

Lab File: VY002008.D

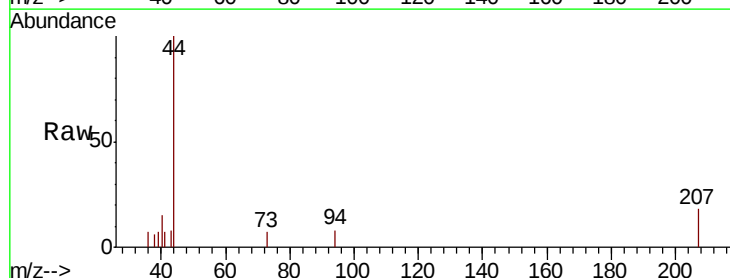
Acq: 18 Mar 2020 16:20

Tgt Ion: 94 Resp: 53

Ion Ratio Lower Upper

94 100

96 0.0 73.2 109.8#



Abundance Ion 93.90 (93.60 to 94.60): VY001845.D (-144) (-)

Ion 95.90 (95.60 to 96.60): VY001845.D (-144) (-)

2.67

80

60

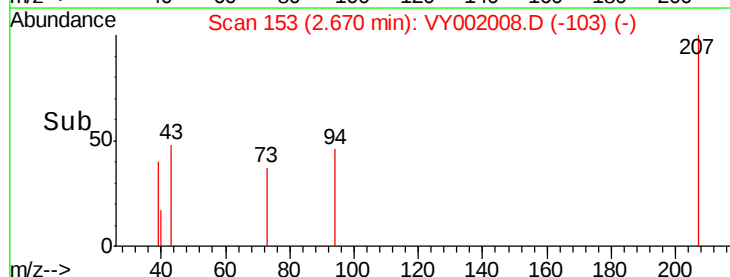
40

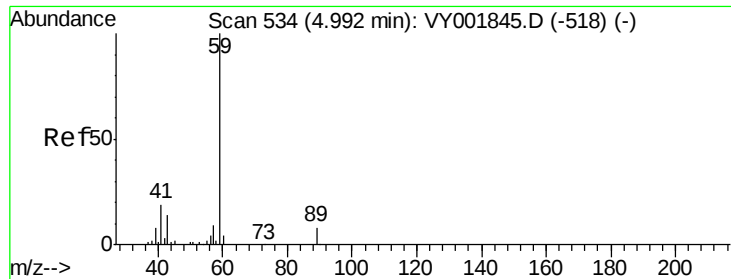
20

0

2.64 2.65 2.66 2.67 2.68

Time-->



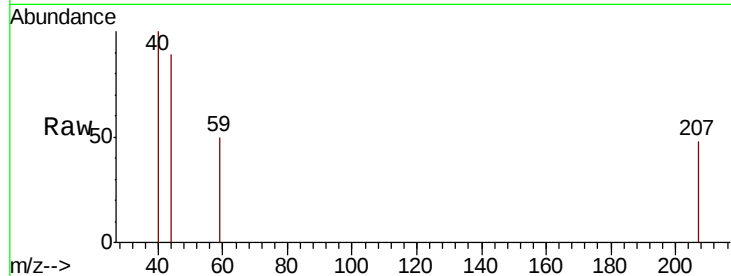


#11

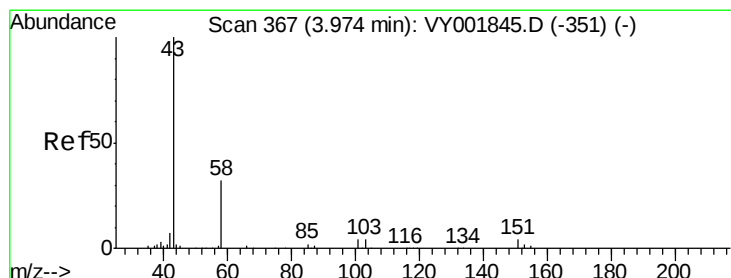
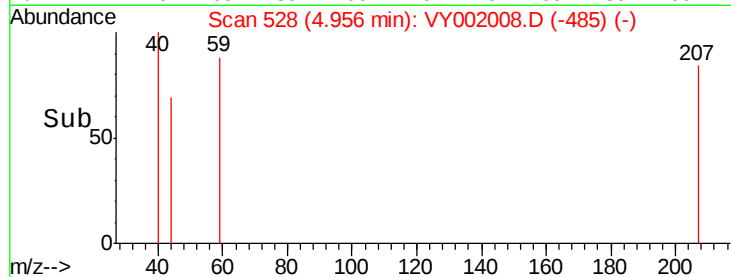
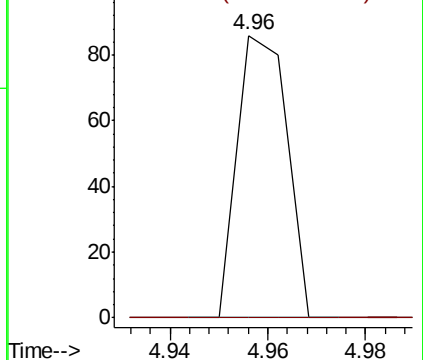
Tert butyl alcohol  
 Concen: Below Cal  
 RT: 4.96 min Scan# 528  
 Delta R.T. -0.04 min  
 Lab File: VY002008.D  
 Acq: 18 Mar 2020 16:20

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 2000448388

Tot Ion: 59 Resp: 61  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 7.4 11.2#



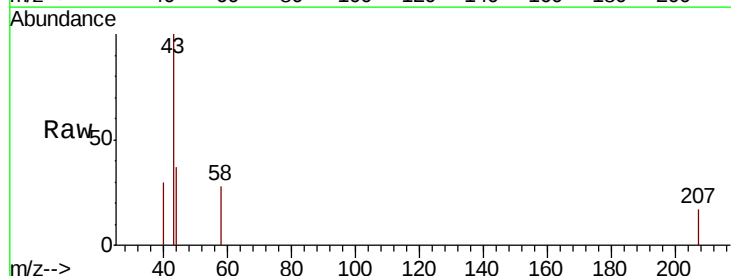
Abundance Ion 59.00 (58.70 to 59.70): VY0  
 Ion 57.00 (56.70 to 57.70): VY0



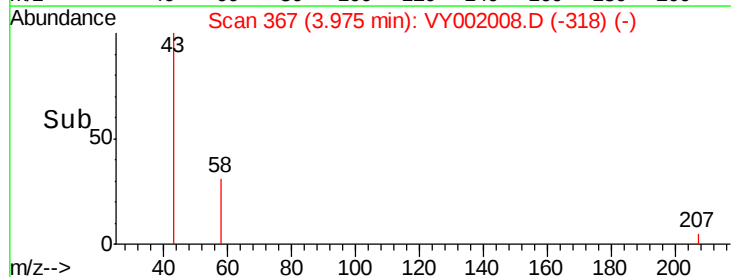
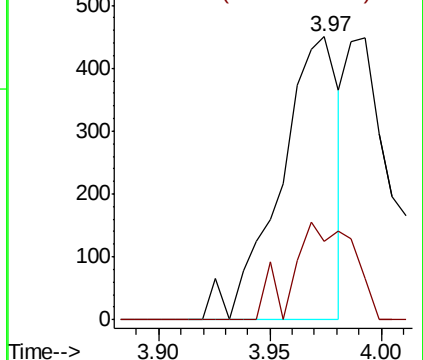
#16

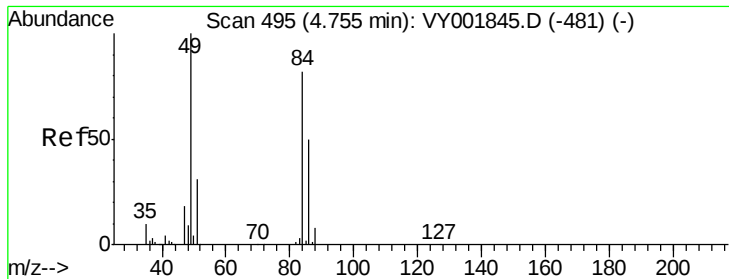
Acetone  
 Concen: 1.927 ug/l  
 RT: 3.97 min Scan# 367  
 Delta R.T. 0.00 min  
 Lab File: VY002008.D  
 Acq: 18 Mar 2020 16:20

Tgt Ion: 43 Resp: 827  
 Ion Ratio Lower Upper  
 43 100  
 58 27.6 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VY0  
 Ion 58.00 (57.70 to 58.70): VY0





#20

Methylene Chloride

Concen: 1.381 ug/l

RT: 4.75 min Scan# 494

Delta R.T. -0.01 min

Lab File: VY002008.D

Acq: 18 Mar 2020 16:20

Instrument :

MSVOA\_Y

ClientSampleId :

2000448388

Tot Ion: 84 Resp: 2540

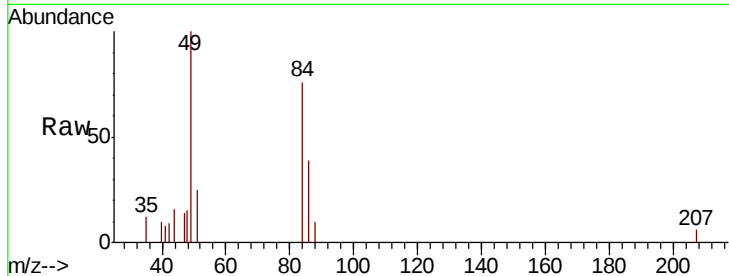
Ion Ratio Lower Upper

84 100

49 132.4 98.2 147.2

51 32.5 30.2 45.2

86 51.1 48.9 73.3

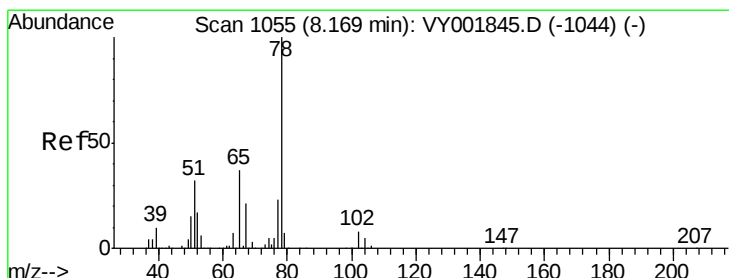
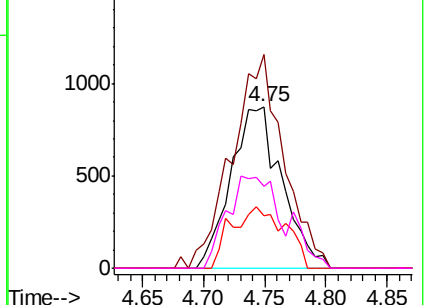
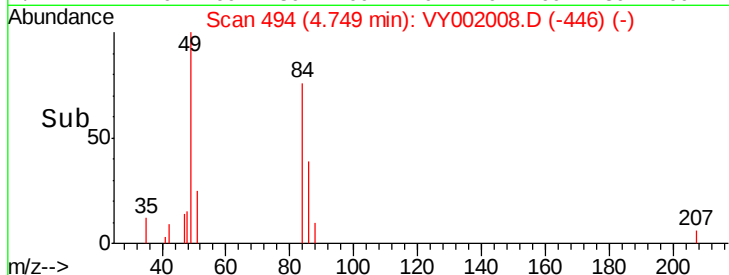


Abundance Ion 83.90 (83.60 to 84.60): VY0

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



#33

1,2-Dichloroethane-d4

Concen: 55.104 ug/l

RT: 8.16 min Scan# 1053

Delta R.T. -0.01 min

Lab File: VY002008.D

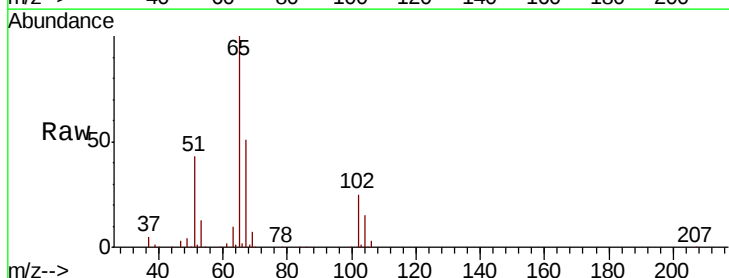
Acq: 18 Mar 2020 16:20

Tgt Ion: 65 Resp: 81210

Ion Ratio Lower Upper

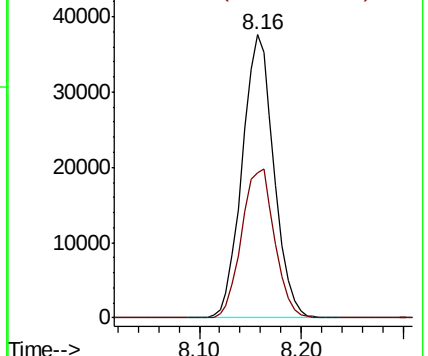
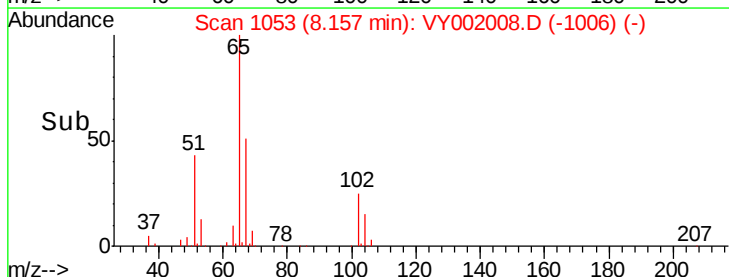
65 100

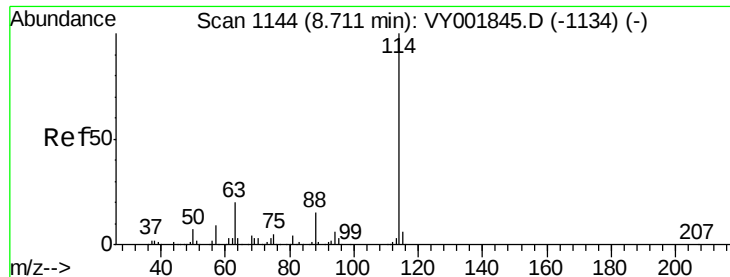
67 54.7 0.0 110.8



Abundance Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0

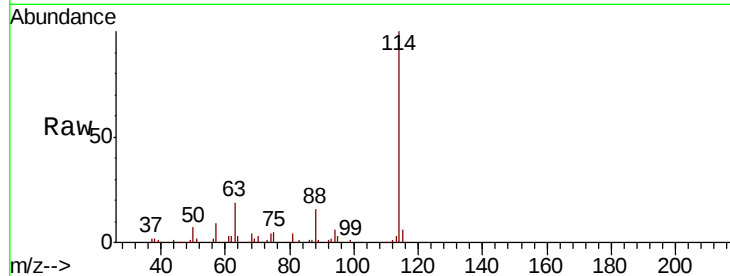




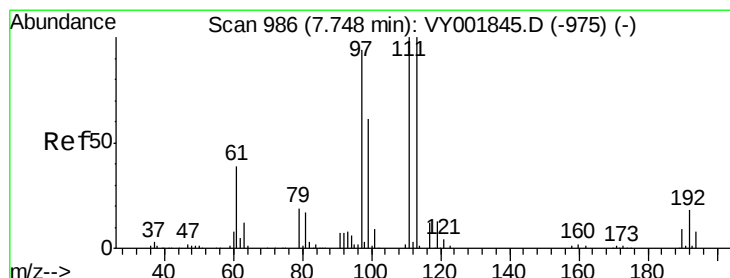
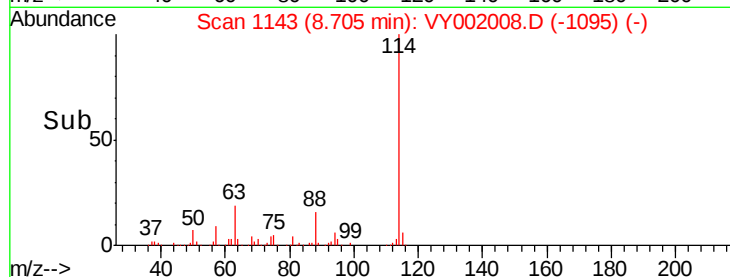
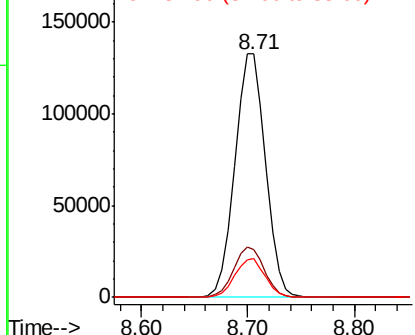
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.71 min Scan# 1143  
 Delta R.T. -0.01 min  
 Lab File: VY002008.D  
 Acq: 18 Mar 2020 16:20

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 2000448388

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 19.5  | 0.0   | 39.4  |
| 88      | 16.2  | 0.0   | 30.4  |

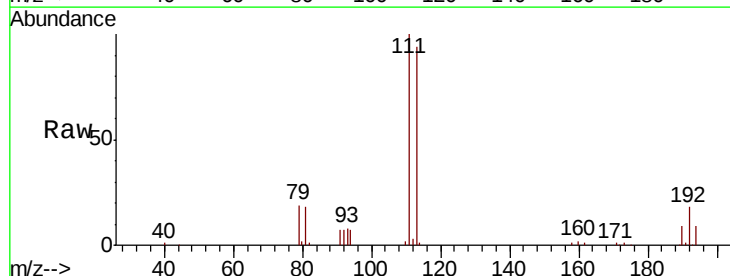


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VY0  
 Ion 87.90 (87.60 to 88.60): VY0

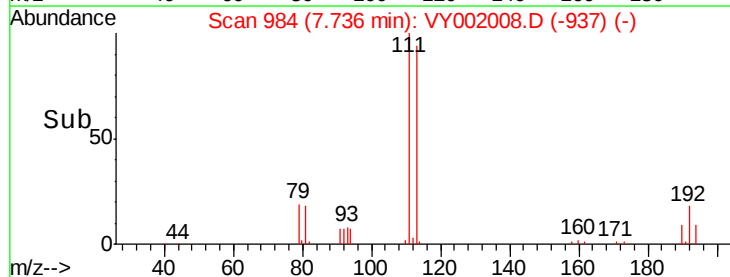
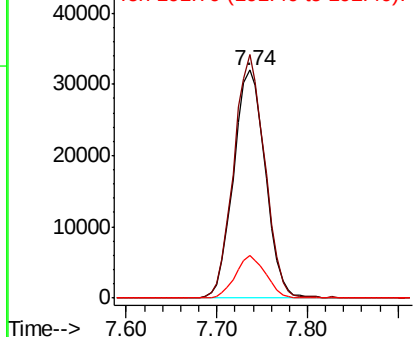


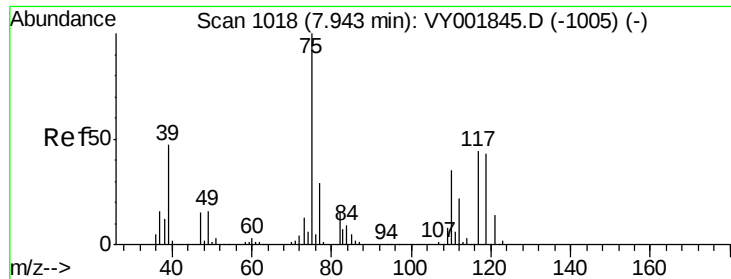
#35  
 Dibromofluoromethane  
 Concen: 53.205 ug/l  
 RT: 7.74 min Scan# 984  
 Delta R.T. -0.01 min  
 Lab File: VY002008.D  
 Acq: 18 Mar 2020 16:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 104.1 | 81.8  | 122.8 |
| 192     | 17.8  | 14.2  | 21.2  |



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

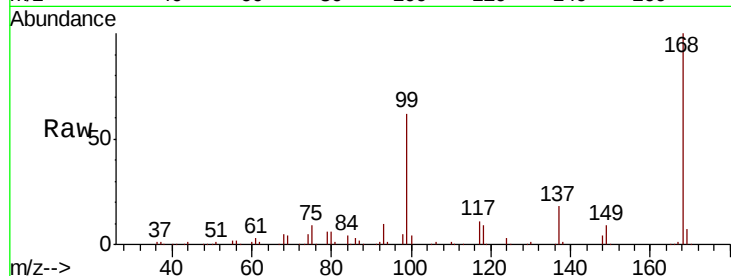




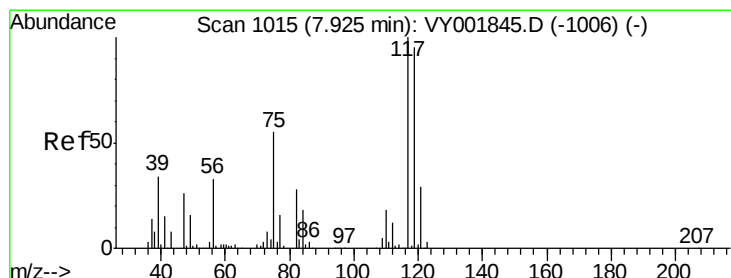
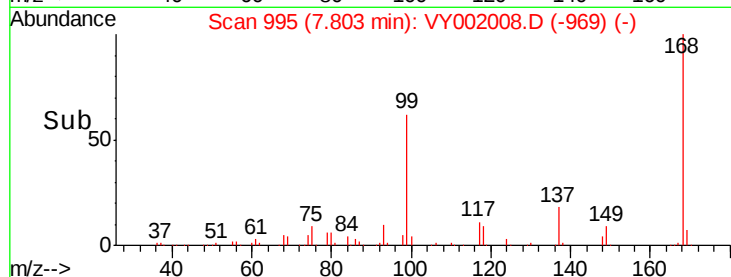
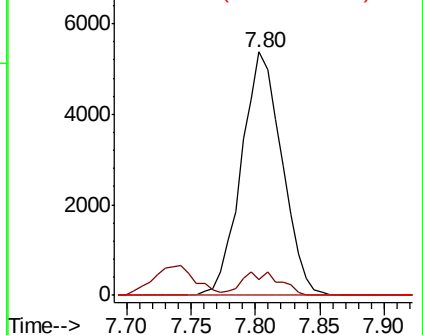
#36  
 1,1-Dichloropropene  
 Concen: 4.543 ug/l  
 RT: 7.80 min Scan# 995  
 Delta R.T. -0.14 min  
 Lab File: VY002008.D  
 Acq: 18 Mar 2020 16:20

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 2000448388

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.2   | 17.4  | 52.2# |
| 77      | 0.0   | 24.2  | 36.2# |

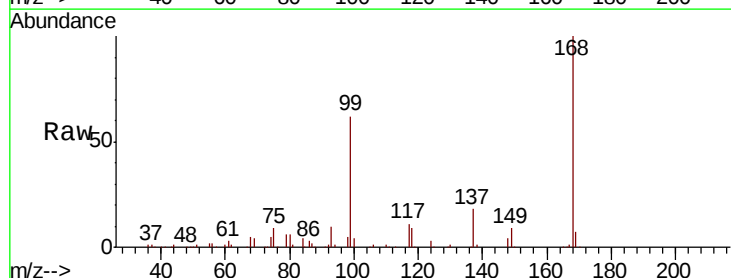


Abundance Ion 74.90 (74.60 to 75.60): VY0  
 Ion 109.90 (109.60 to 110.60): VY0  
 Ion 76.90 (76.60 to 77.60): VY0

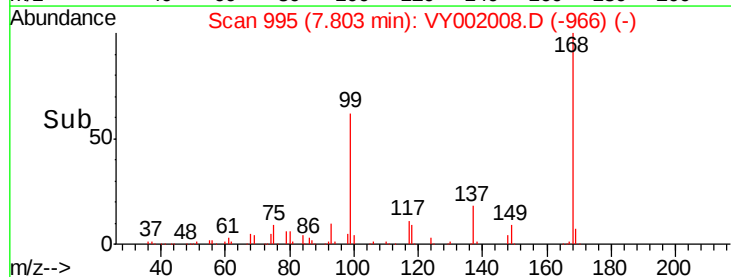
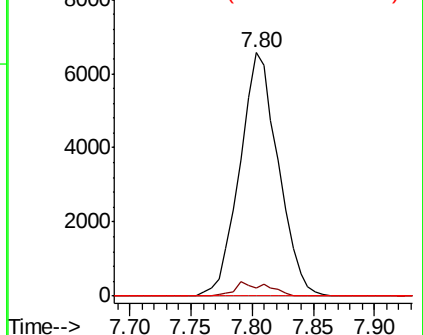


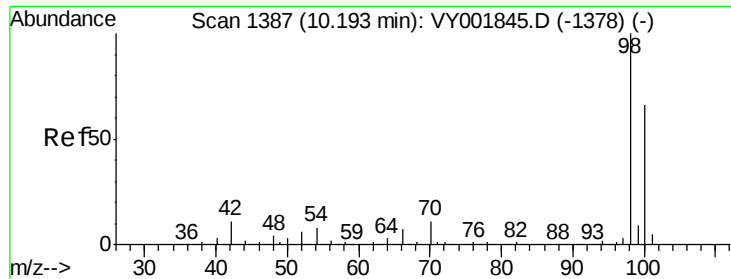
#38  
 Carbon Tetrachloride  
 Concen: 6.521 ug/l  
 RT: 7.80 min Scan# 995  
 Delta R.T. -0.12 min  
 Lab File: VY002008.D  
 Acq: 18 Mar 2020 16:20

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 3.5   | 76.3  | 114.5# |
| 121     | 0.0   | 23.5  | 35.3#  |



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





#50

Toluene-d8

Concen: 52.520 ug/l

RT: 10.19 min Scan# 1386

Delta R.T. -0.01 min

Lab File: VY002008.D

Acq: 18 Mar 2020 16:20

Instrument :

MSVOA\_Y

ClientSampleId :

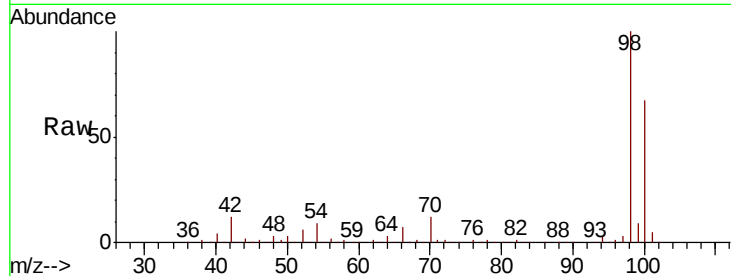
2000448388

Tot Ion: 98 Resp: 324047

Ion Ratio Lower Upper

98 100

100 65.0 53.0 79.4



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY

200000

150000

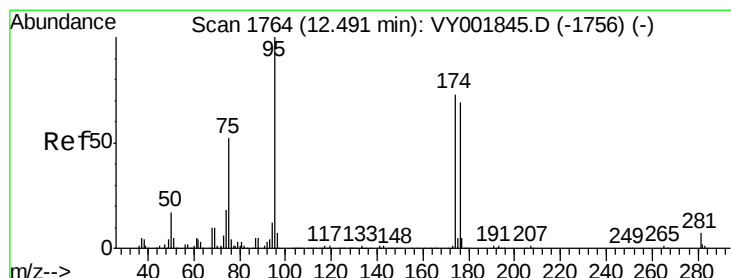
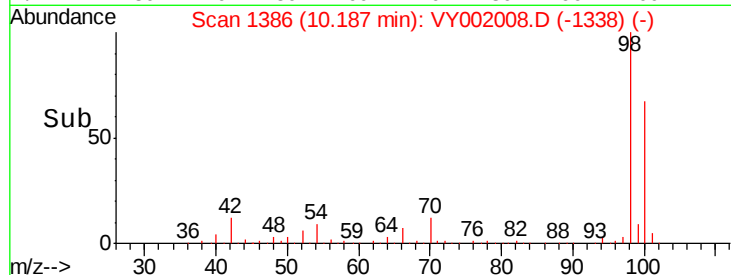
100000

50000

0

10.10 10.20 10.30

Time-->



#62

4-Bromofluorobenzene

Concen: 46.723 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. -0.01 min

Lab File: VY002008.D

Acq: 18 Mar 2020 16:20

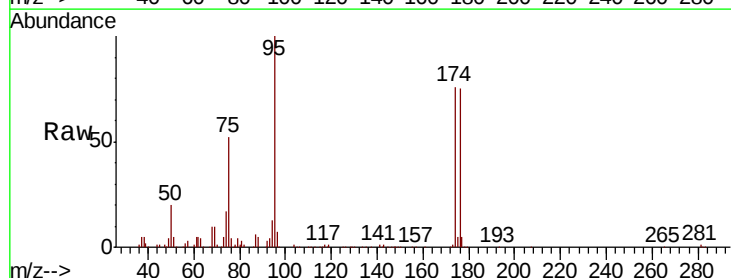
Tgt Ion: 95 Resp: 100238

Ion Ratio Lower Upper

95 100

174 73.3 0.0 145.0

176 70.9 0.0 137.4



Abundance Ion 94.90 (94.60 to 95.60): VY0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

80000

60000

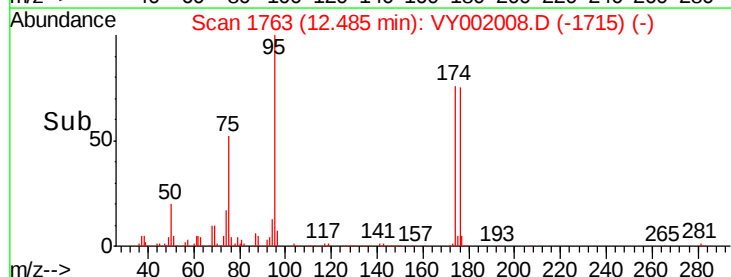
40000

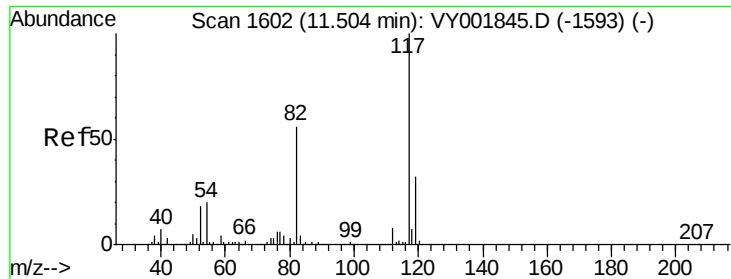
20000

0

12.40 12.45 12.50 12.55

Time-->

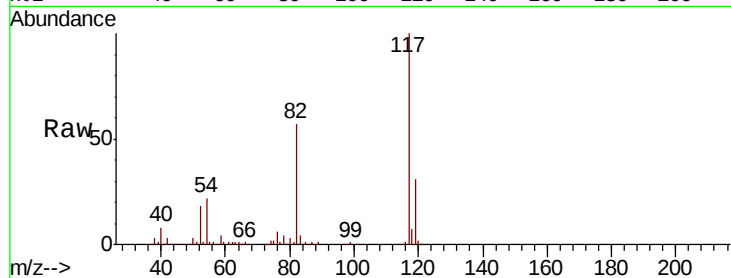




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1600  
Delta R.T. -0.01 min  
Lab File: VY002008.D  
Acq: 18 Mar 2020 16:20

Instrument :  
MSVOA\_Y  
ClientSampleId :  
2000448388

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 57.5  | 44.5  | 66.7  |
| 119     | 31.1  | 25.7  | 38.5  |

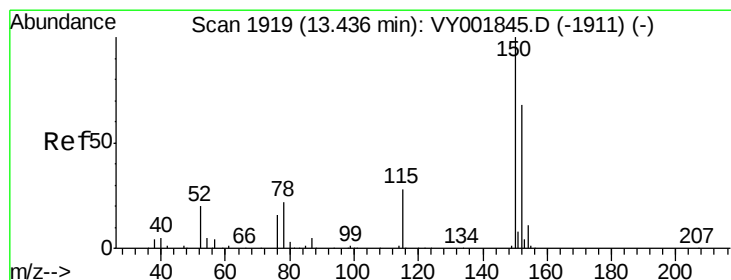
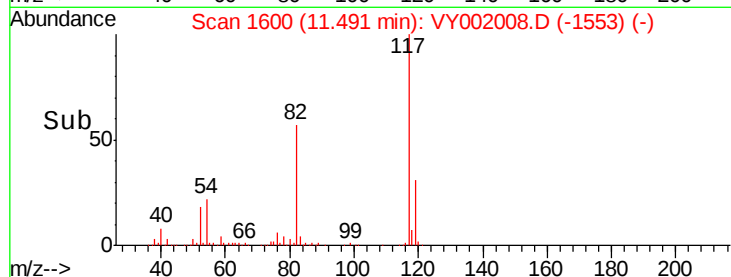
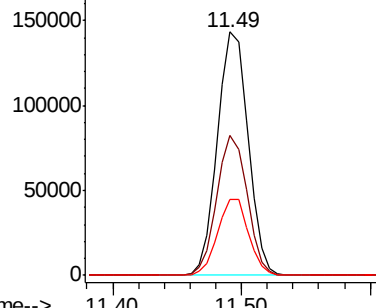


Abundance

Ion 116.90 (116.60 to 117.60): V

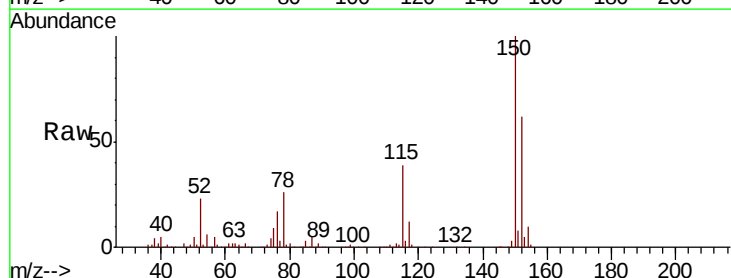
Ion 82.00 (81.70 to 82.70): VY0

Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.43 min Scan# 1918  
Delta R.T. -0.01 min  
Lab File: VY002008.D  
Acq: 18 Mar 2020 16:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 60.8  | 29.9  | 89.7  |
| 150     | 157.4 | 0.0   | 340.6 |

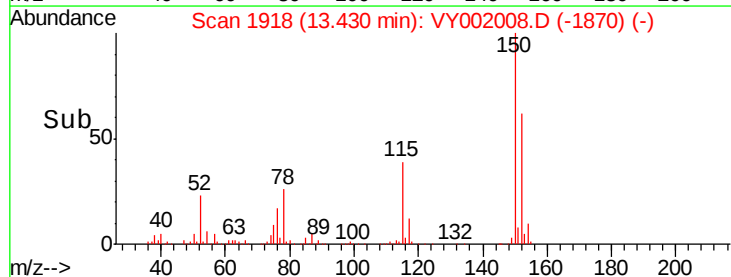
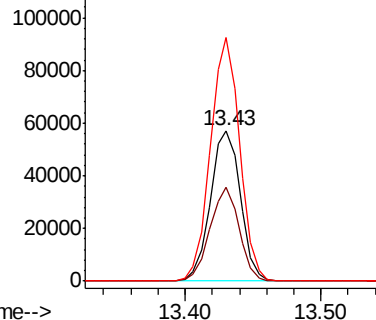


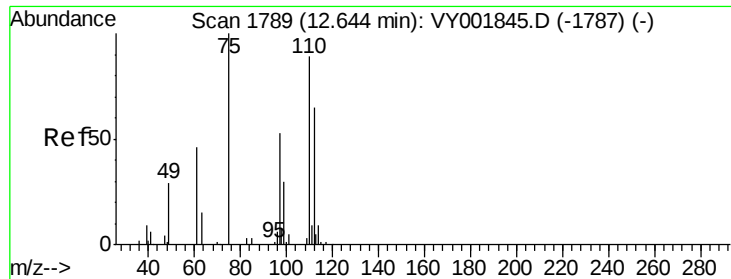
Abundance

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: 48.539 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. -0.16 min

Lab File: VY002008.D

Acq: 18 Mar 2020 16:20

Instrument :

MSVOA\_Y

ClientSampleId :

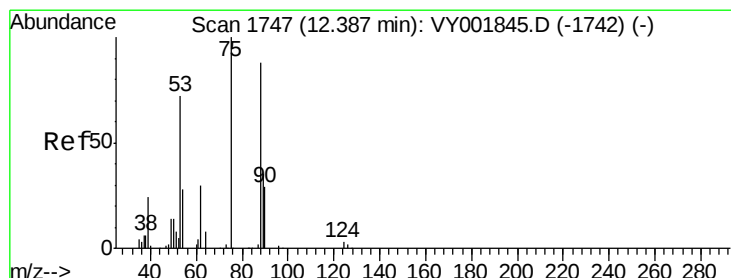
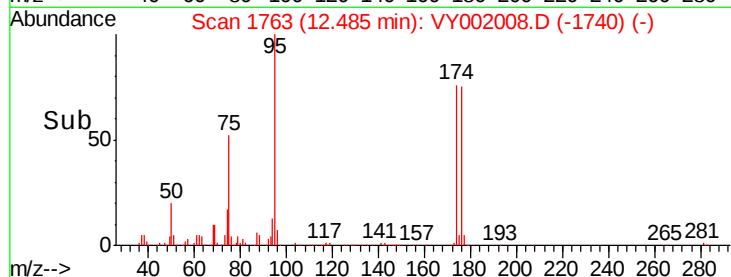
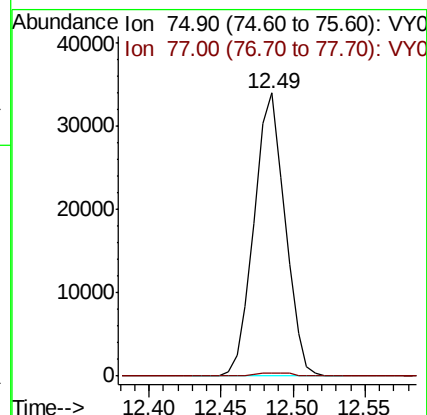
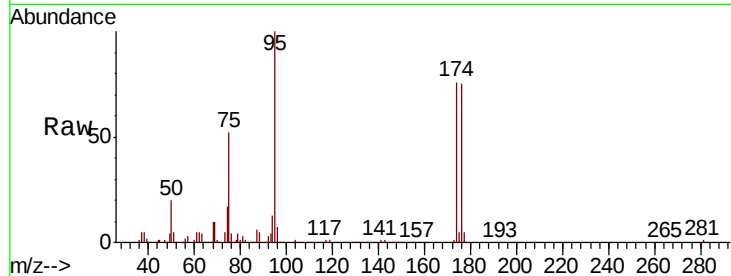
2000448388

Tot Ion: 75 Resp: 50562

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 98.046 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. 0.10 min

Lab File: VY002008.D

Acq: 18 Mar 2020 16:20

Tgt Ion: 75 Resp: 50562

Ion Ratio Lower Upper

75 100

53 0.0 65.4 98.0#

89 0.1 36.0 54.0#

