

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY030420\  
 Data File : VY001864.D  
 Acq On : 04 Mar 2020 19:11  
 Operator : SY/MD  
 Sample : L1778-14  
 Misc : 8.32G/5ML/MSVOA Y/SOIL  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 S5

Quant Time: Mar 05 04:11:58 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      | 7.82  | 168  | 141268   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.71  | 114  | 275046   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.50 | 117  | 239117   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.43 | 152  | 92234    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.16  | 65   | 88050    | 58.38 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 116.76% |          |
| 35) Dibromofluoromethane    | 7.74  | 113  | 80103    | 53.34 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.68% |          |
| 50) Toluene-d8              | 10.19 | 98   | 329294   | 52.00 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.00% |          |
| 62) 4-Bromofluorobenzene    | 12.49 | 95   | 103053   | 46.80 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.60%  |          |

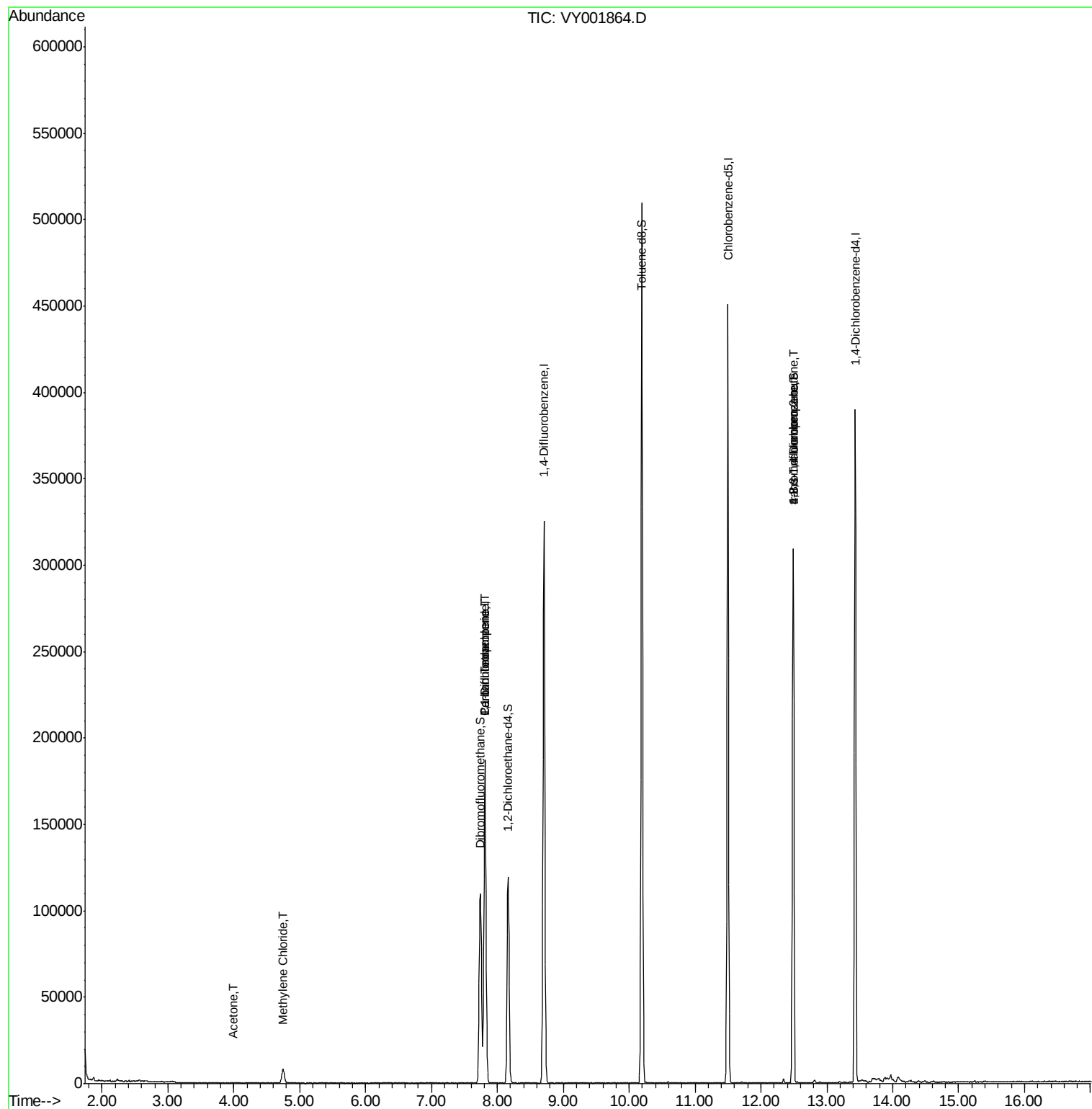
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 2.68  | 94   | 21       | Below Cal | #      | 1      |
| 11) Tert butyl alcohol         | 4.96  | 59   | 23       | Below Cal | #      | 74     |
| 16) Acetone                    | 3.99  | 43   | 632      | 1.439     | ug/l   | 100    |
| 20) Methylene Chloride         | 4.75  | 84   | 5639     | 2.995     | ug/l   | 93     |
| 36) 1,1-Dichloropropene        | 7.81  | 75   | 11830    | 4.470     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.81  | 117  | 14666    | 6.486     | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 12.49 | 75   | 53495    | 48.880    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.49 | 75   | 53495    | 98.735    | ug/l # | 17     |

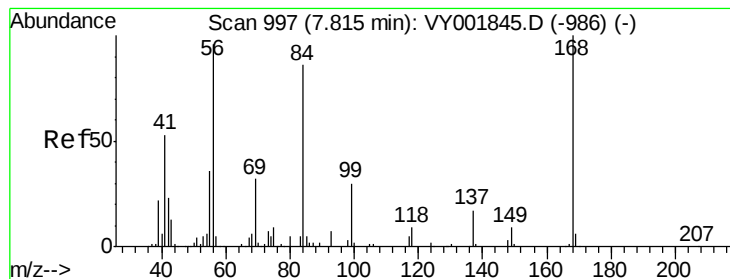
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 25 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
S5

Quant Time: Mar 05 04:11:58 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: 7.82 min Scan# 997

Delta R.T. 0.00 min

Lab File: VY001864.D

Acq: 04 Mar 2020 19:11

Instrument :

MSVOA\_Y

ClientSampleId :

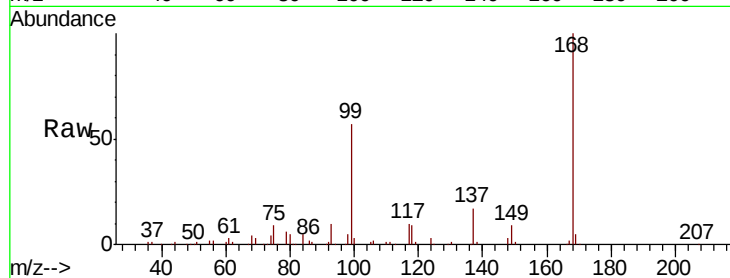
S5

Tot Ion:168 Resp: 141268

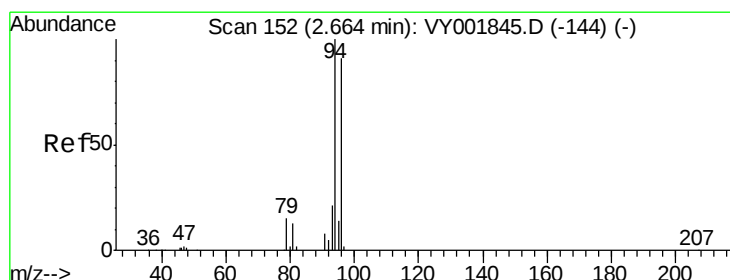
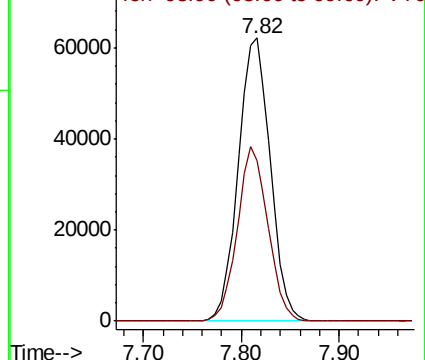
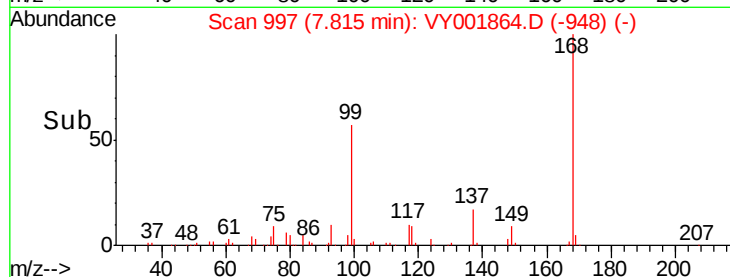
Ion Ratio Lower Upper

168 100

99 56.9 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): VY001864.D (-948) (-)



#5

Bromomethane

Concen: Below Cal

RT: 2.68 min Scan# 154

Delta R.T. 0.01 min

Lab File: VY001864.D

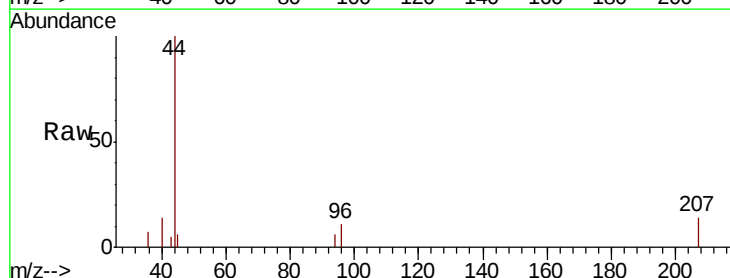
Acq: 04 Mar 2020 19:11

Tgt Ion: 94 Resp: 21

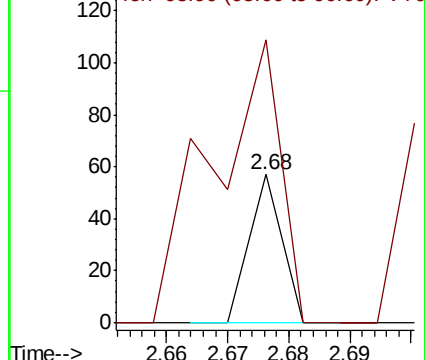
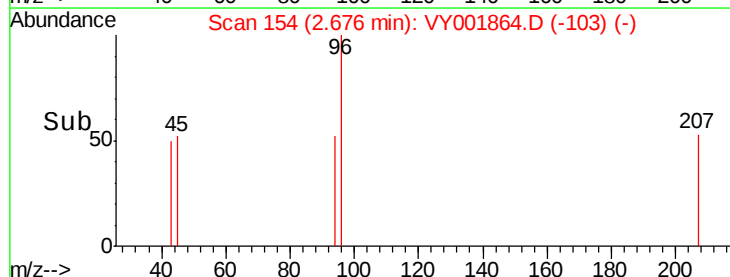
Ion Ratio Lower Upper

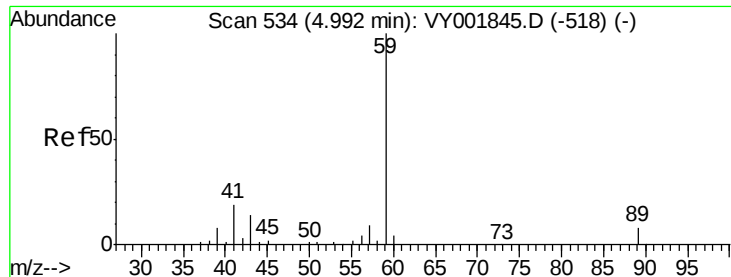
94 100

96 191.2 73.2 109.8#



Abundance Ion 93.90 (93.60 to 94.60): VY001864.D (-103) (-)

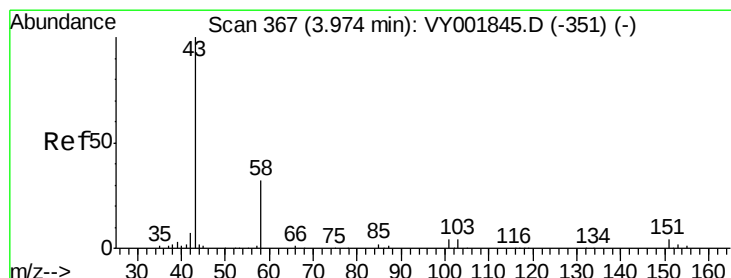
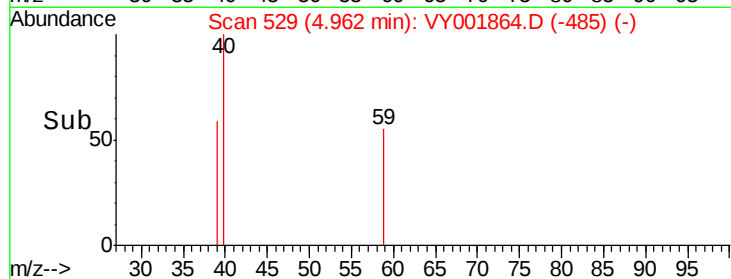
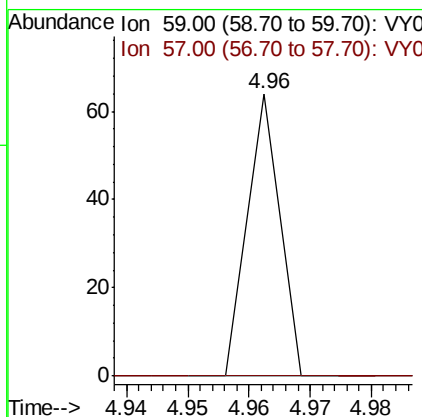
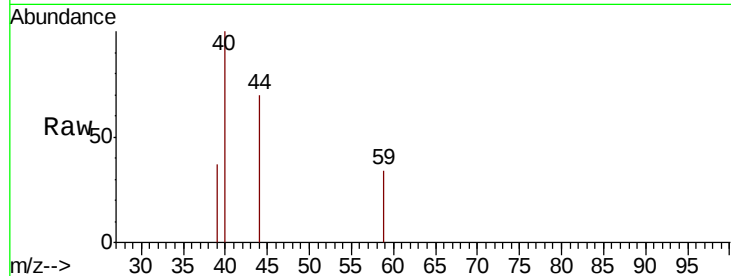




#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 4.96 min Scan# 529  
Delta R.T. -0.03 min  
Lab File: VY001864.D  
Acq: 04 Mar 2020 19:11

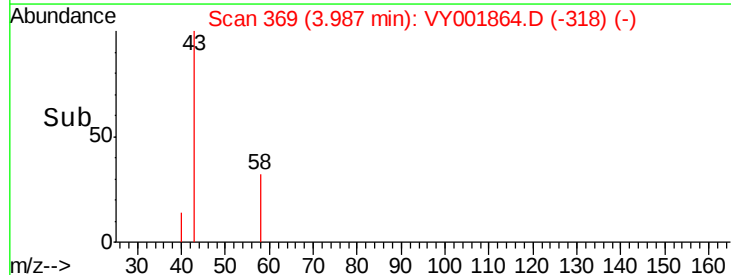
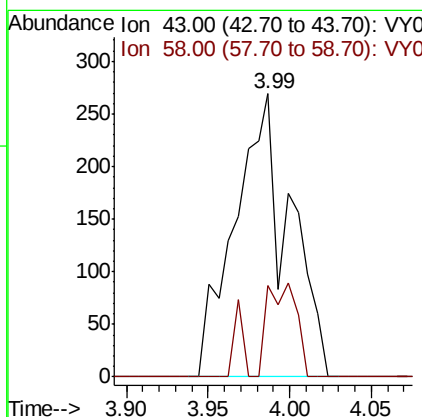
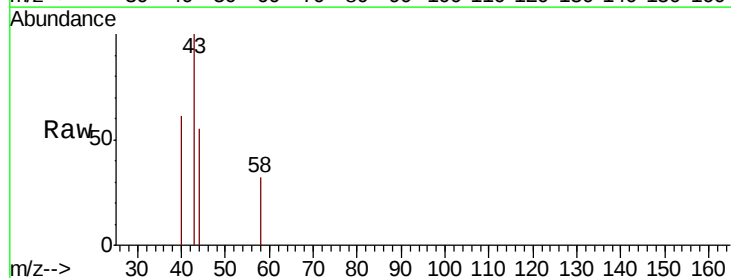
Instrument :  
MSVOA\_Y  
ClientSampled :  
S5

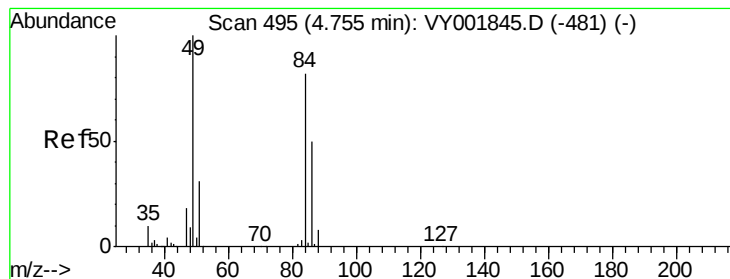
Tot Ion: 59 Resp: 23  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.4 11.2#



#16  
Acetone  
Concen: 1.439 ug/l  
RT: 3.99 min Scan# 369  
Delta R.T. 0.01 min  
Lab File: VY001864.D  
Acq: 04 Mar 2020 19:11

Tgt Ion: 43 Resp: 632  
Ion Ratio Lower Upper  
43 100  
58 32.3 25.9 38.9





#20

Methylene Chloride

Concen: 2.995 ug/l

RT: 4.75 min Scan# 494

Delta R.T. -0.01 min

Lab File: VY001864.D

Acq: 04 Mar 2020 19:11

Instrument :

MSVOA\_Y

ClientSampleId :

S5

Tot Ion: 84 Resp: 5639

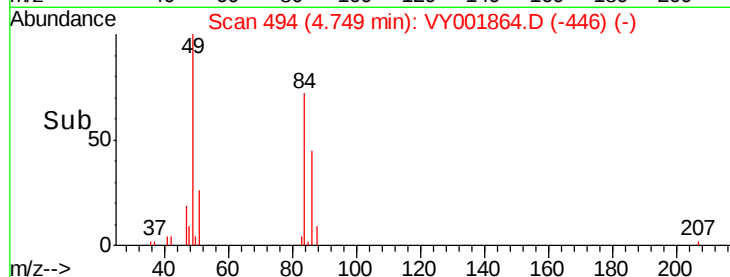
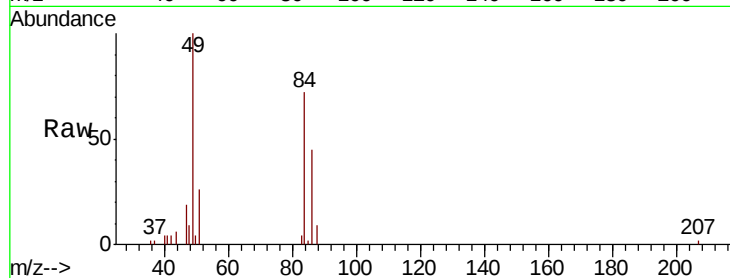
Ion Ratio Lower Upper

84 100

49 135.6 98.2 147.2

51 35.7 30.2 45.2

86 62.7 48.9 73.3

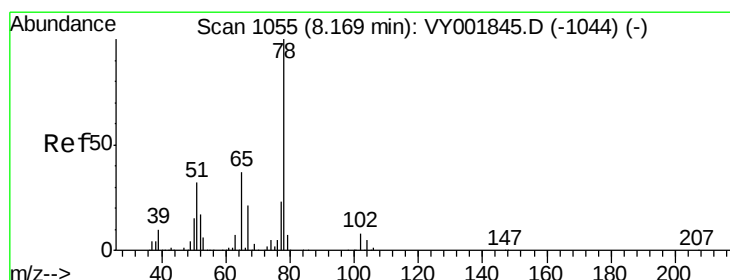
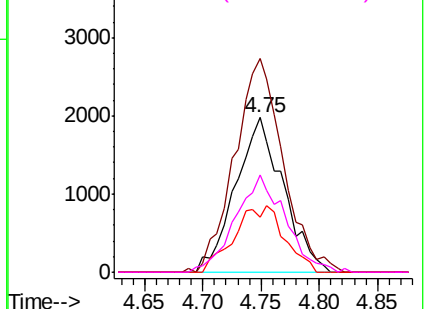


Abundance Ion 83.90 (83.60 to 84.60): VY0

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: 58.384 ug/l

RT: 8.16 min Scan# 1054

Delta R.T. -0.01 min

Lab File: VY001864.D

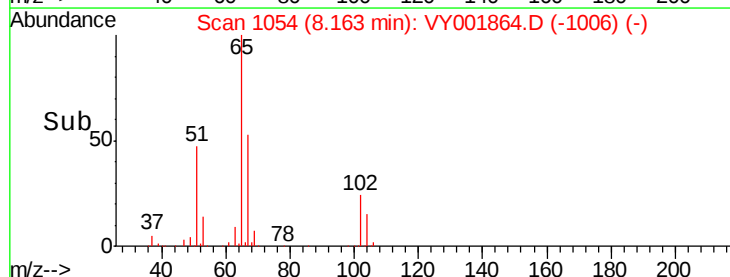
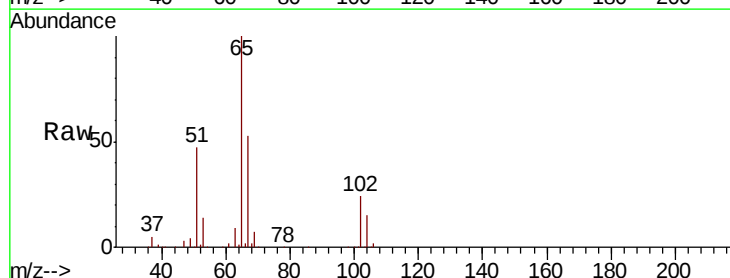
Acq: 04 Mar 2020 19:11

Tgt Ion: 65 Resp: 88050

Ion Ratio Lower Upper

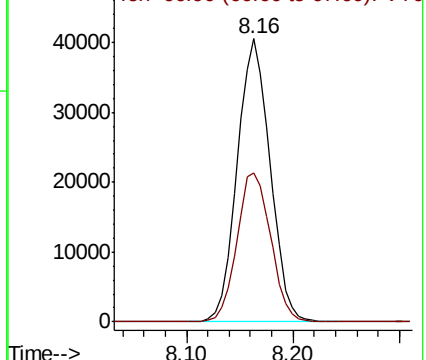
65 100

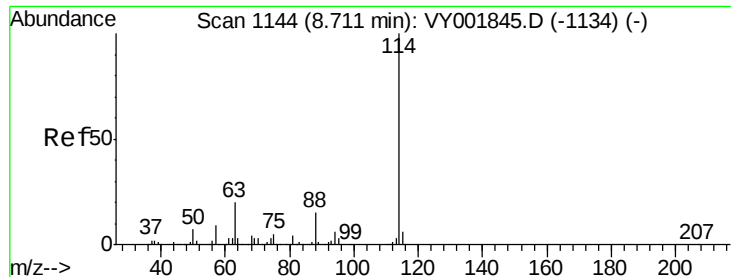
67 54.0 0.0 110.8



Abundance Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0

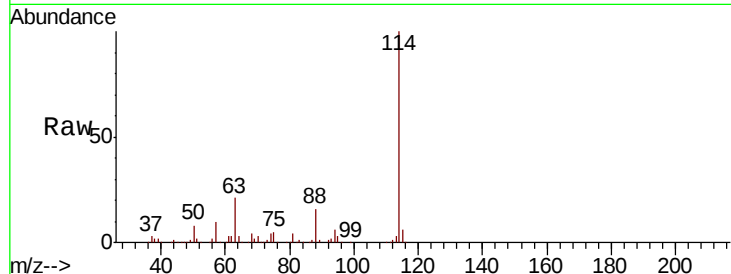




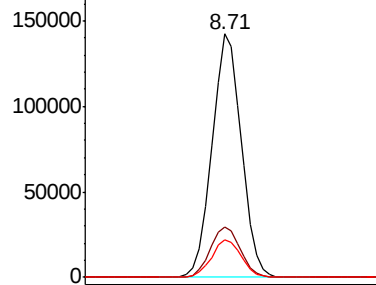
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.71 min Scan# 1143  
 Delta R.T. -0.01 min  
 Lab File: VY001864.D  
 Acq: 04 Mar 2020 19:11

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 S5

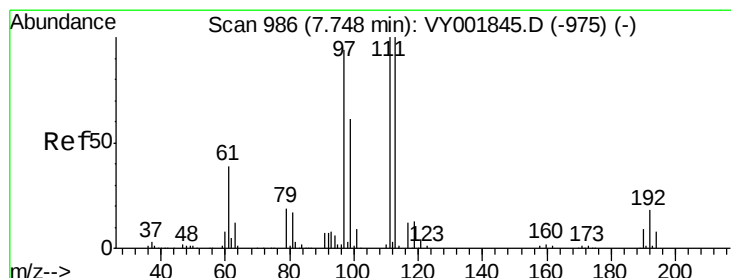
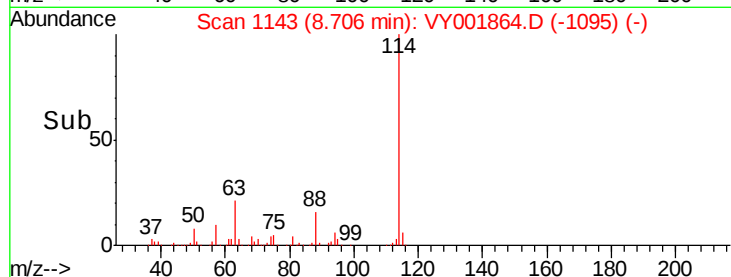
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 20.5  | 0.0   | 39.4  |
| 88      | 15.6  | 0.0   | 30.4  |



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

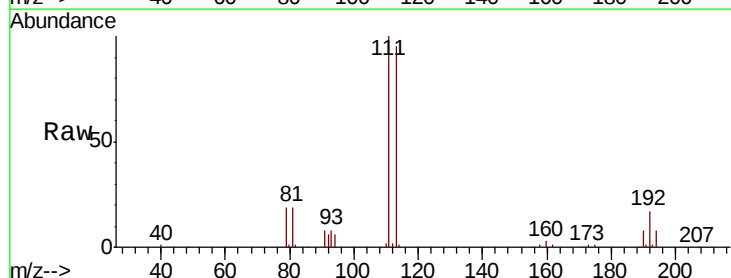


Time--> 8.60 8.70 8.80

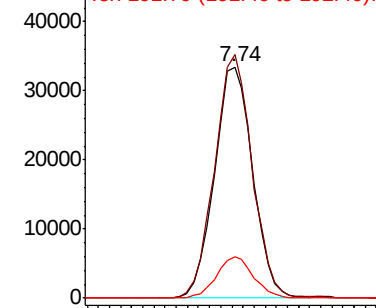


#35  
 Dibromofluoromethane  
 Concen: 53.335 ug/l  
 RT: 7.74 min Scan# 985  
 Delta R.T. -0.01 min  
 Lab File: VY001864.D  
 Acq: 04 Mar 2020 19:11

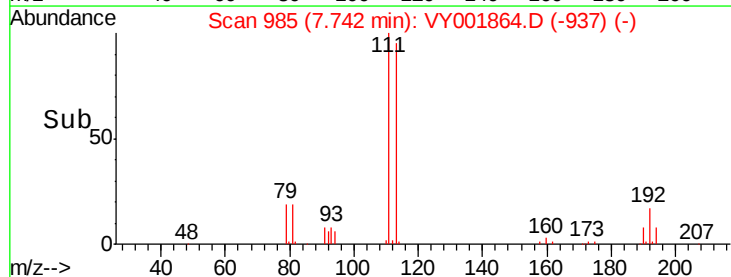
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.9 | 81.8  | 122.8 |
| 192     | 17.2  | 14.2  | 21.2  |

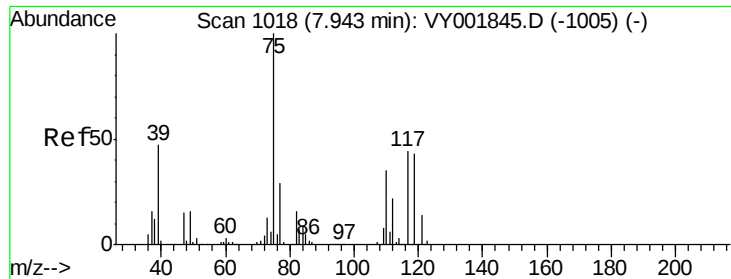


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V



Time--> 7.65 7.70 7.75 7.80 7.85

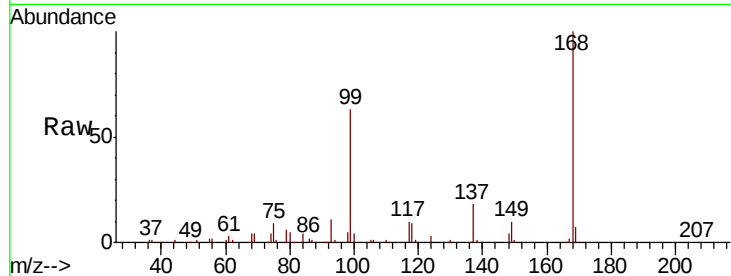




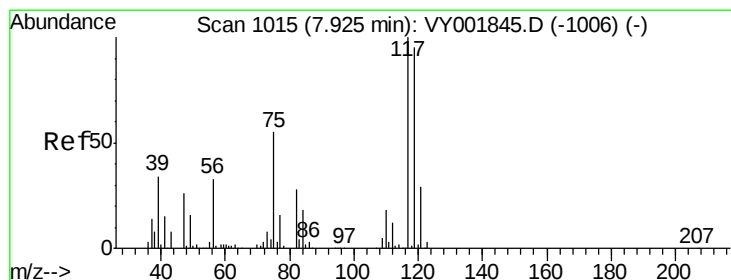
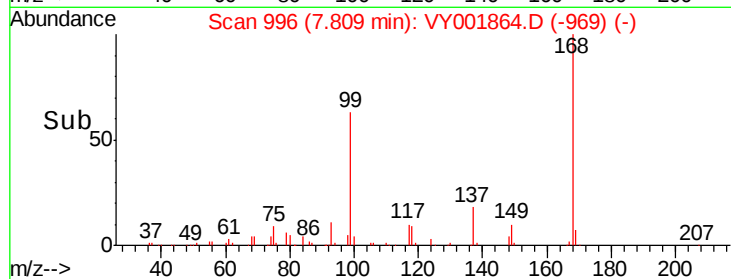
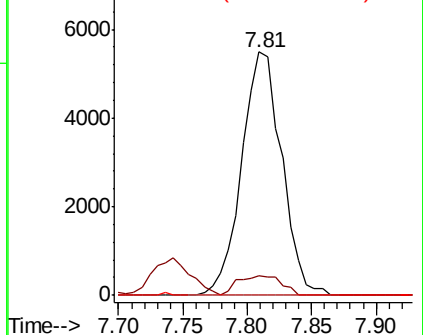
#36  
 1,1-Dichloropropene  
 Concen: 4.470 ug/l  
 RT: 7.81 min Scan# 996  
 Delta R.T. -0.13 min  
 Lab File: VY001864.D  
 Acq: 04 Mar 2020 19:11

Instrument :  
 MSVOA\_Y  
 ClientSampled :  
 S5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.9   | 17.4  | 52.2# |
| 77      | 0.0   | 24.2  | 36.2# |

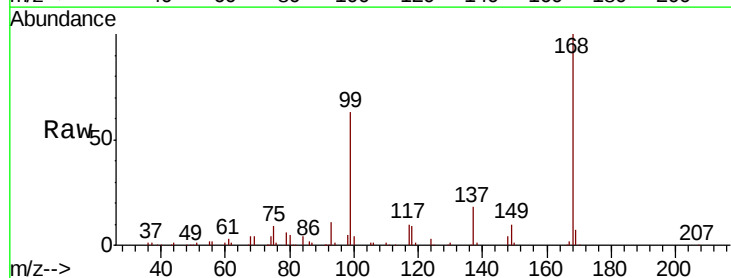


Abundance Ion 74.90 (74.60 to 75.60): VY001864.D (-969) (-)  
 Ion 109.90 (109.60 to 110.60): VY001864.D (-969) (-)  
 Ion 76.90 (76.60 to 77.60): VY001864.D (-969) (-)

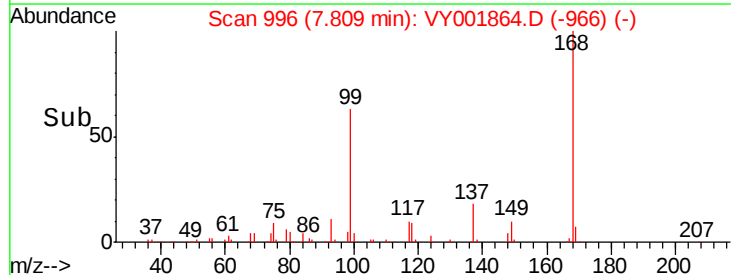
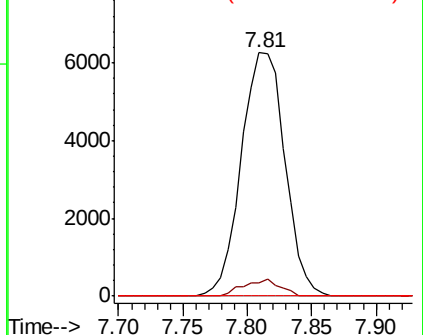


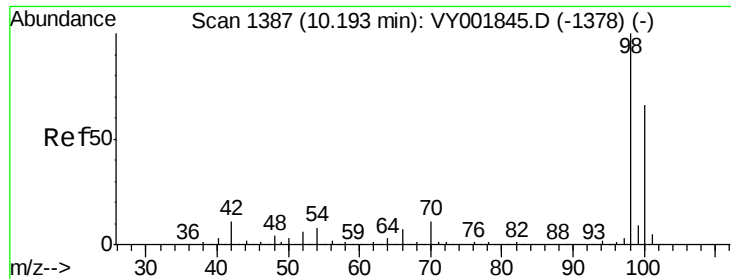
#38  
 Carbon Tetrachloride  
 Concen: 6.486 ug/l  
 RT: 7.81 min Scan# 996  
 Delta R.T. -0.12 min  
 Lab File: VY001864.D  
 Acq: 04 Mar 2020 19:11

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 5.2   | 76.3  | 114.5# |
| 121     | 0.0   | 23.5  | 35.3#  |



Abundance Ion 116.80 (116.50 to 117.50): VY001864.D (-966) (-)  
 Ion 118.80 (118.50 to 119.50): VY001864.D (-966) (-)  
 Ion 120.80 (120.50 to 121.50): VY001864.D (-966) (-)





#50

Toluene-d8

Concen: 51.995 ug/l

RT: 10.19 min Scan# 1387

Delta R.T. 0.00 min

Lab File: VY001864.D

Acq: 04 Mar 2020 19:11

Instrument :

MSVOA\_Y

ClientSampleId :

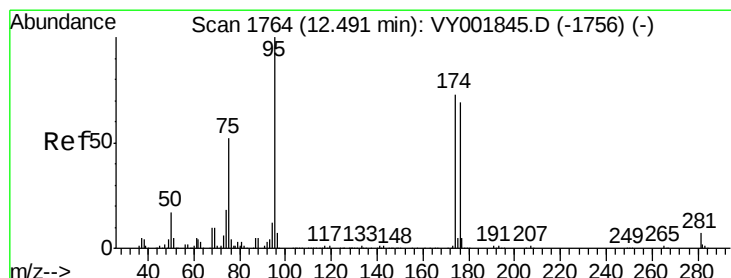
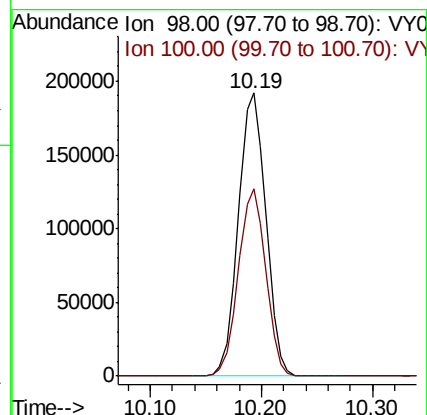
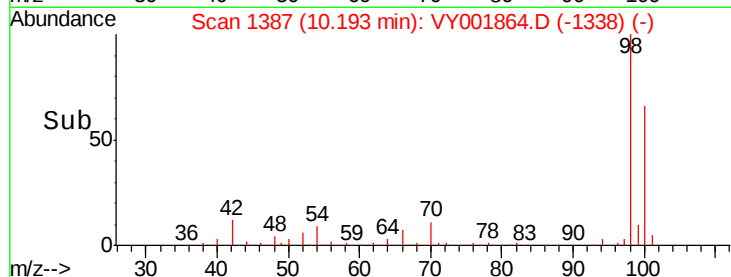
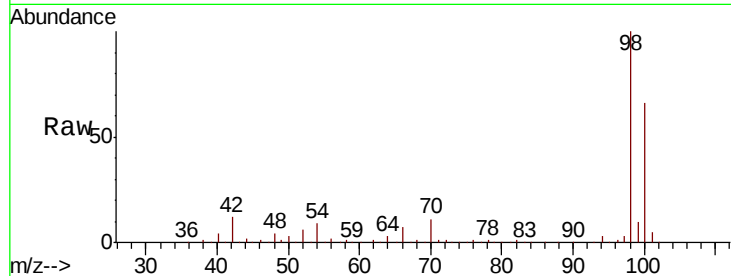
S5

Tot Ion: 98 Resp: 329294

Ion Ratio Lower Upper

98 100

100 65.8 53.0 79.4



#62

4-Bromofluorobenzene

Concen: 46.797 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.00 min

Lab File: VY001864.D

Acq: 04 Mar 2020 19:11

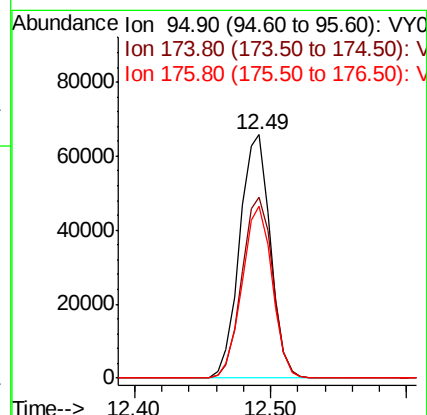
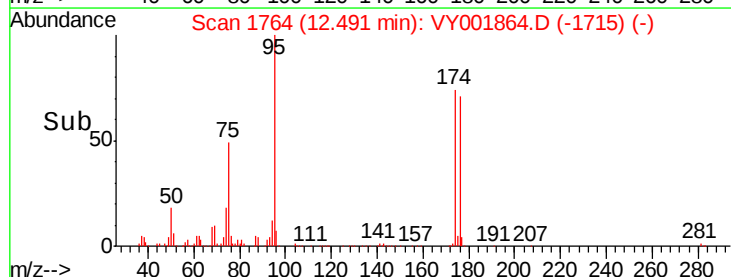
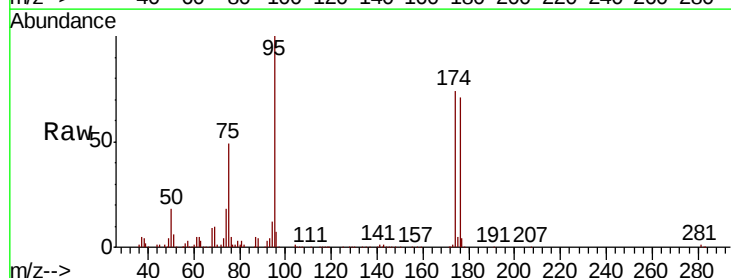
Tgt Ion: 95 Resp: 103053

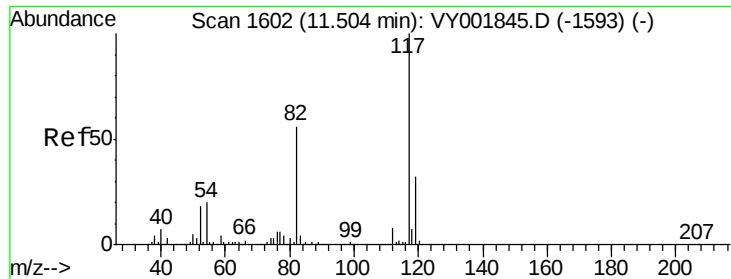
Ion Ratio Lower Upper

95 100

174 74.9 0.0 145.0

176 70.0 0.0 137.4

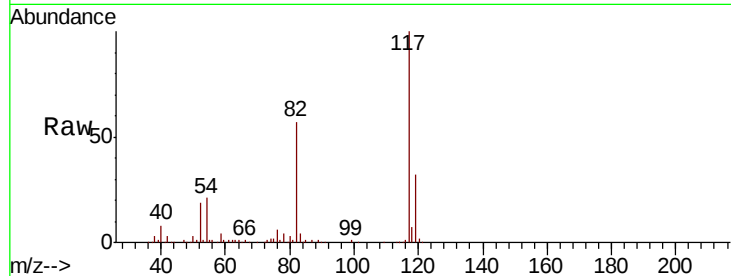




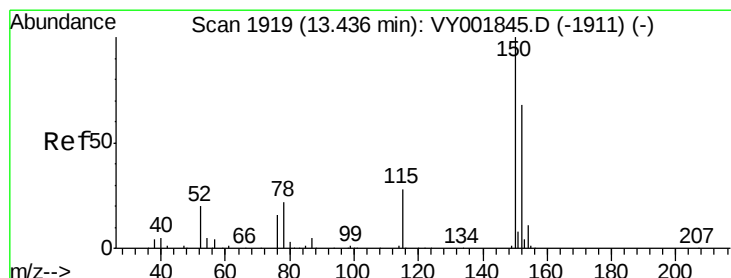
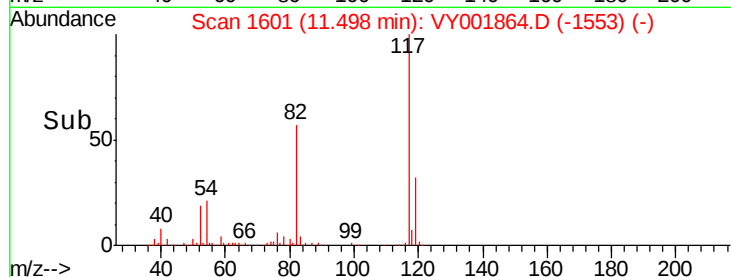
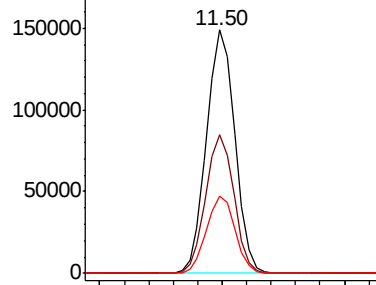
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.50 min Scan# 1601  
Delta R.T. -0.01 min  
Lab File: VY001864.D  
Acq: 04 Mar 2020 19:11

Instrument :  
MSVOA\_Y  
ClientSampleId :  
S5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 57.0  | 44.5  | 66.7  |
| 119     | 31.5  | 25.7  | 38.5  |

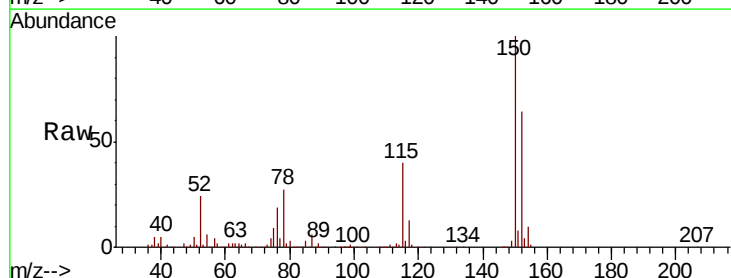


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VY0  
Ion 118.90 (118.60 to 119.60): V

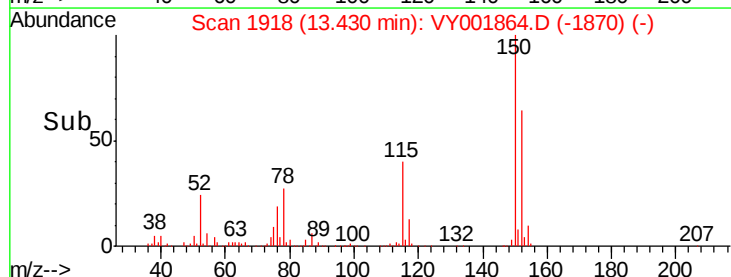
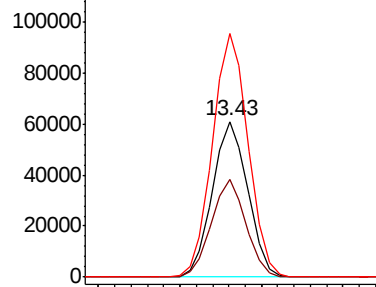


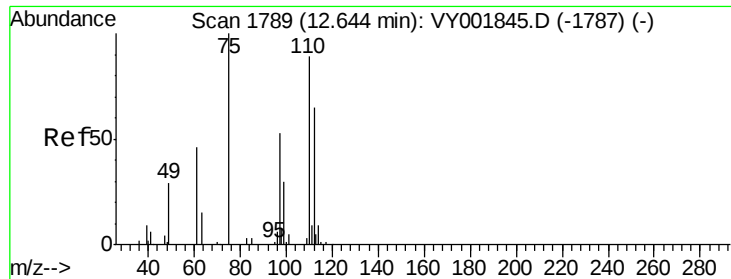
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.43 min Scan# 1918  
Delta R.T. -0.01 min  
Lab File: VY001864.D  
Acq: 04 Mar 2020 19:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 61.1  | 29.9  | 89.7  |
| 150     | 157.3 | 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: 48.880 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. -0.16 min

Lab File: VY001864.D

Acq: 04 Mar 2020 19:11

Instrument :

MSVOA\_Y

ClientSampleId :

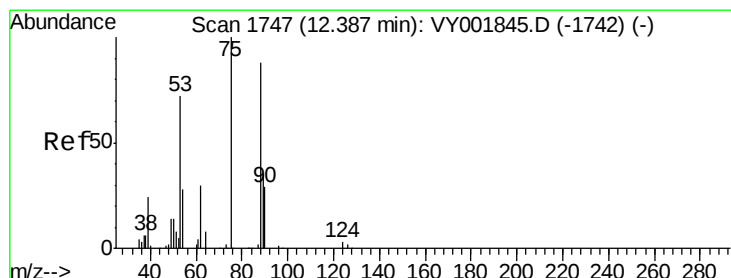
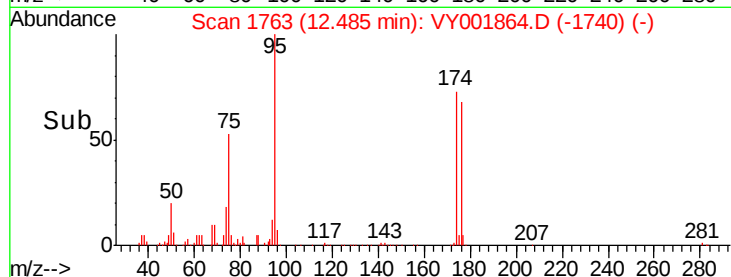
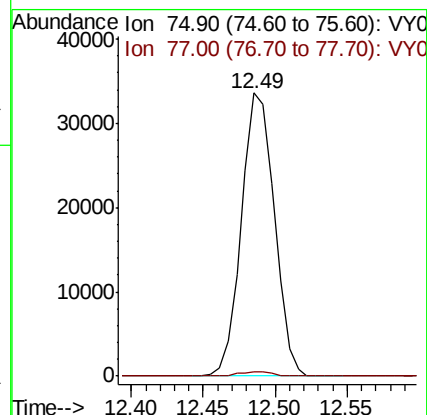
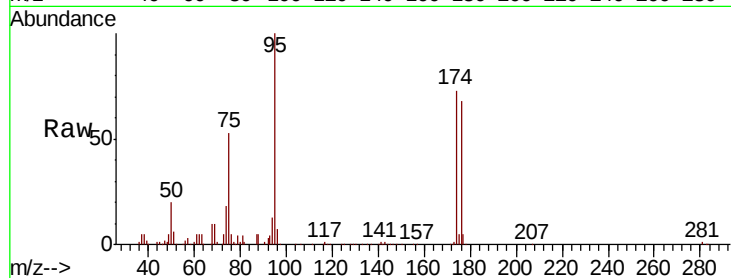
S5

Tot Ion: 75 Resp: 53495

Ion Ratio Lower Upper

75 100

77 1.6 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 98.735 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. 0.10 min

Lab File: VY001864.D

Acq: 04 Mar 2020 19:11

Tgt Ion: 75 Resp: 53495

Ion Ratio Lower Upper

75 100

53 0.0 65.4 98.0#

89 0.0 36.0 54.0#

