

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD080918\  
 Data File : VD059721.D  
 Acq On : 9 Aug 2018 17:51  
 Operator : VA/AP  
 Sample : J4394-02  
 Misc : 7.66g/5ml/MSVOA\_D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 FK-EF-01-006-ABCD

Quant Time: Aug 10 01:17:25 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D080618S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 08 02:03:19 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 160260   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.69  | 114  | 193518   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.69 | 117  | 158104   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.90 | 152  | 83623    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.02  | 65   | 132957   | 64.50  | ug/l    | 0.02     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 129.00% |          |
| 35) Dibromofluoromethane    | 5.54  | 113  | 96241    | 55.37  | ug/l    | 0.02     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 110.74% |          |
| 50) Toluene-d8              | 8.70  | 98   | 172042   | 45.47  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 90.94%  |          |
| 62) 4-Bromofluorobenzene    | 11.93 | 95   | 86339    | 49.44  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 98.88%  |          |

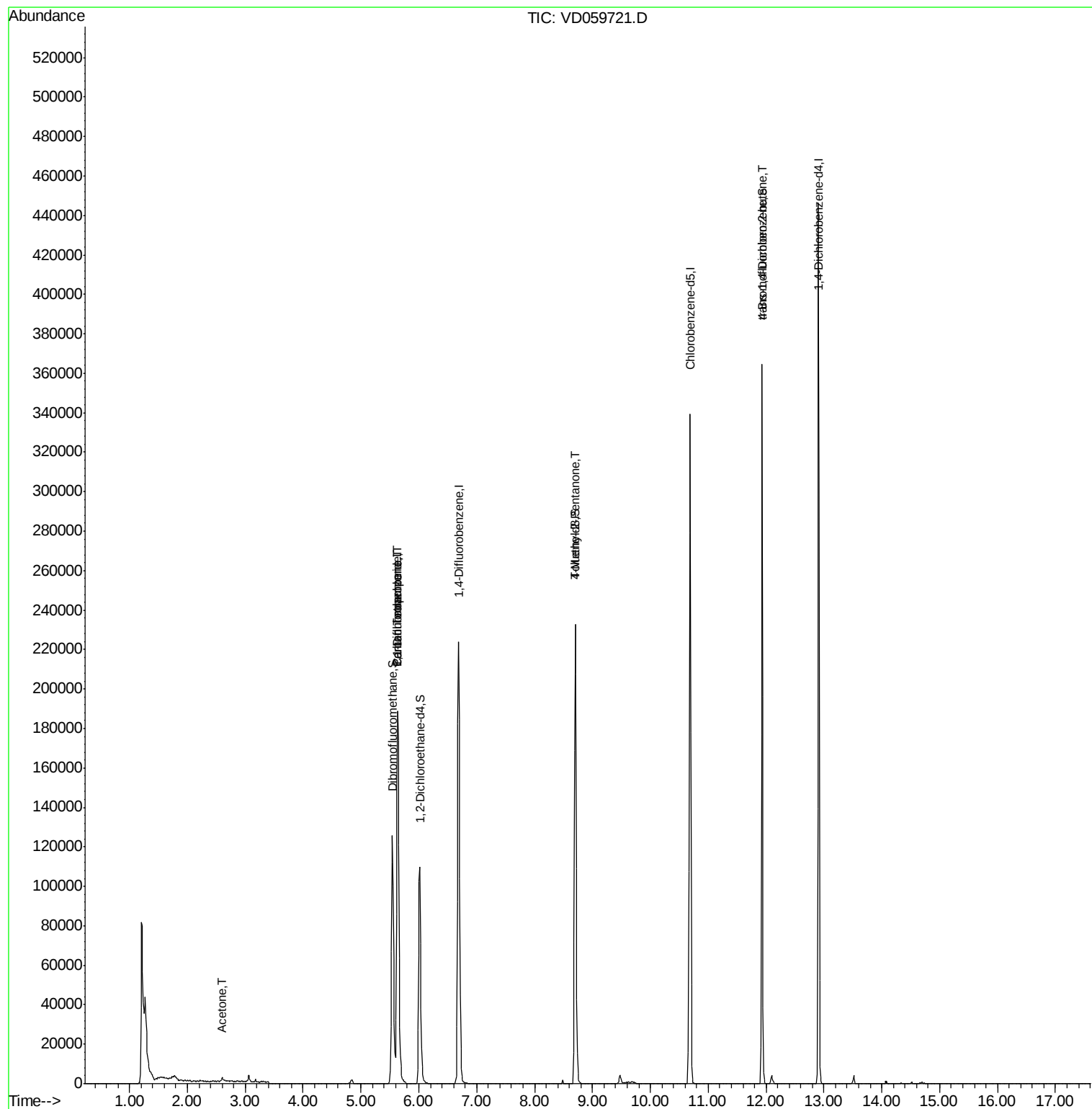
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 16) Acetone                    | 2.60  | 43   | 4078     | 10.530    | ug/l # | 60     |
| 20) Methylene Chloride         | 3.06  | 84   | 1352     | Below Cal | #      | 65     |
| 31) Cyclohexane                | 5.63  | 56   | 4686     | Below Cal | #      | 1      |
| 36) 1,1-Dichloropropene        | 5.63  | 75   | 15638    | 7.269     | ug/l # | 54     |
| 38) Carbon Tetrachloride       | 5.63  | 117  | 18375    | 6.382     | ug/l # | 13     |
| 51) 4-Methyl-2-Pentanone       | 8.70  | 43   | 1296     | 1.302     | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 11.93 | 75   | 52193    | 165.439   | ug/l # | 1      |

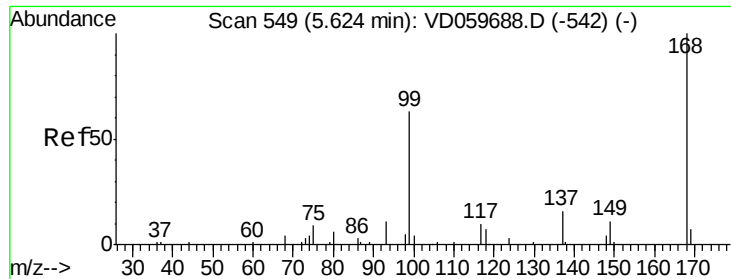
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_D\DATA\VD080918\  
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Instrument :  
MSVOA\_D  
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FK-EF-01-006-ABCD

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Quant Title : SW846 8260  
QLast Update : Wed Aug 08 02:03:19 2018  
Response via : Initial Calibration

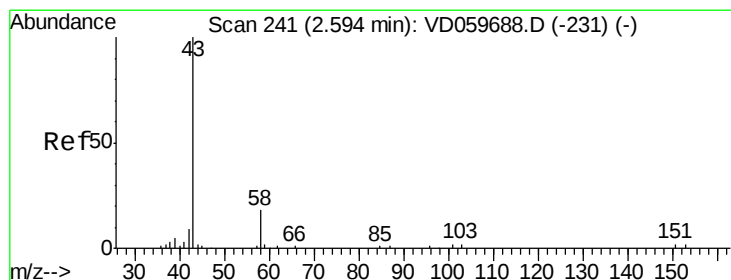
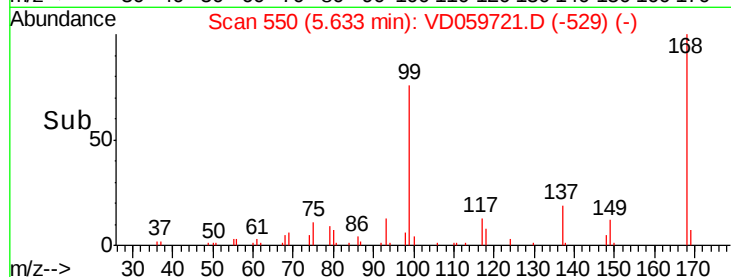
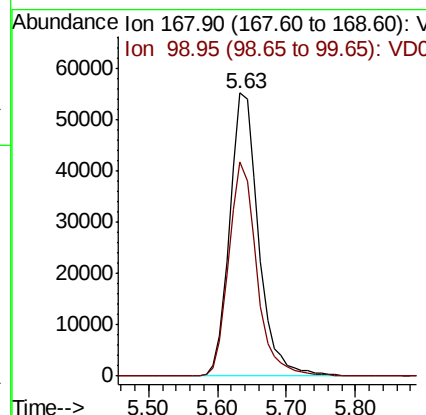
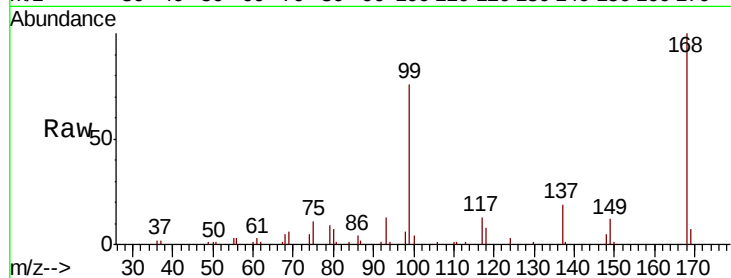




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.63 min Scan# 550  
Delta R.T. 0.01 min  
Lab File: VD059721.D  
Acq: 9 Aug 2018 17:51

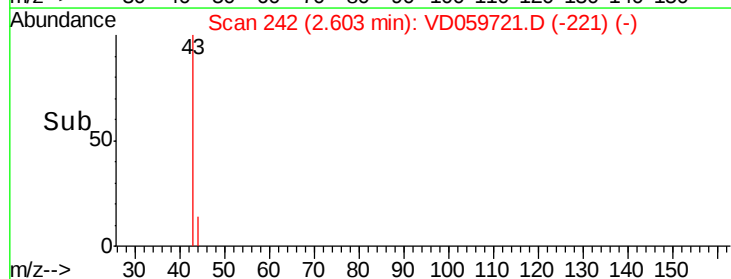
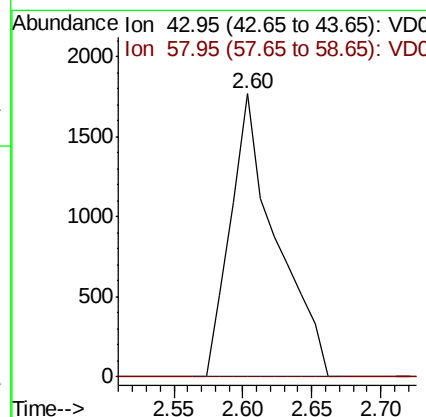
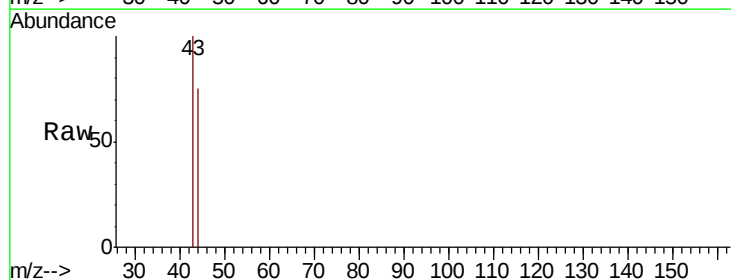
Instrument :  
MSVOA\_D  
ClientSampleId :  
FK-EF-01-006-ABCD

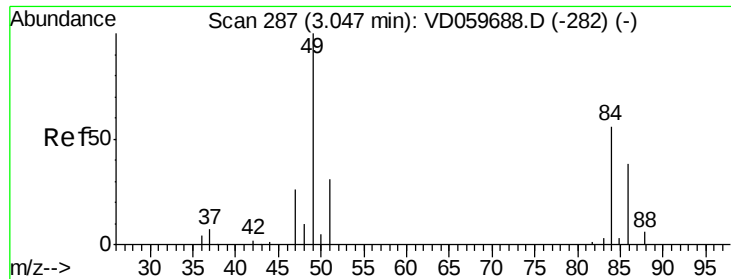
Tgt Ion: 168 Resp: 160260  
Ion Ratio Lower Upper  
168 100  
99 75.8 53.4 80.2



#16  
Acetone  
Concen: 10.530 ug/l  
RT: 2.60 min Scan# 242  
Delta R.T. 0.01 min  
Lab File: VD059721.D  
Acq: 9 Aug 2018 17:51

Tgt Ion: 43 Resp: 4078  
Ion Ratio Lower Upper  
43 100  
58 0.0 14.2 21.2#

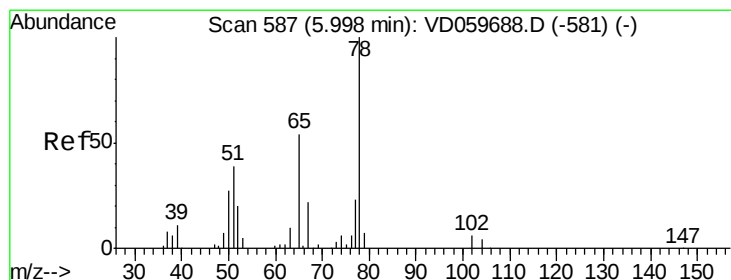
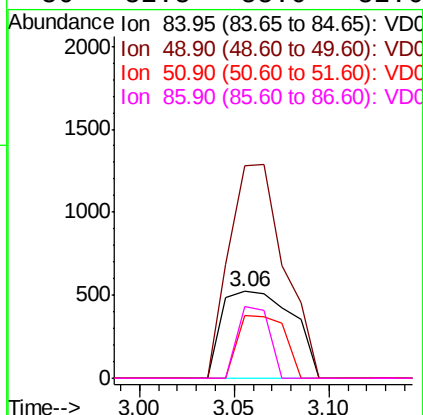
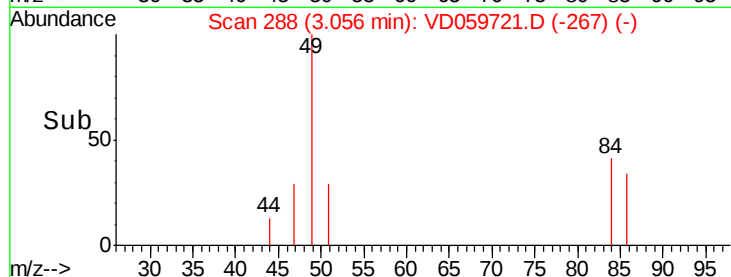
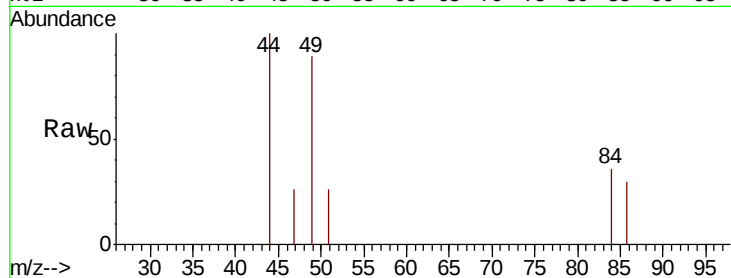




#20  
Methylene Chloride  
Concen: Below Cal  
RT: 3.06 min Scan# 288  
Delta R.T. 0.01 min  
Lab File: VD059721.D  
Acq: 9 Aug 2018 17:51

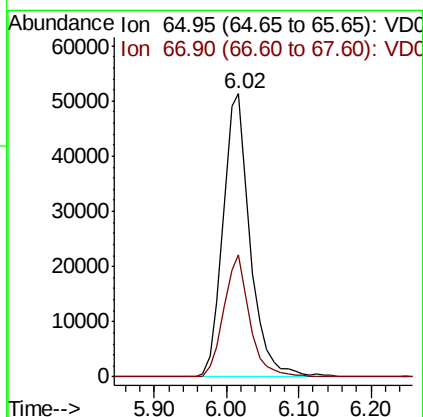
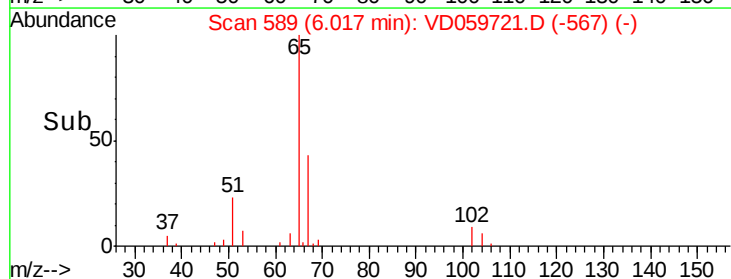
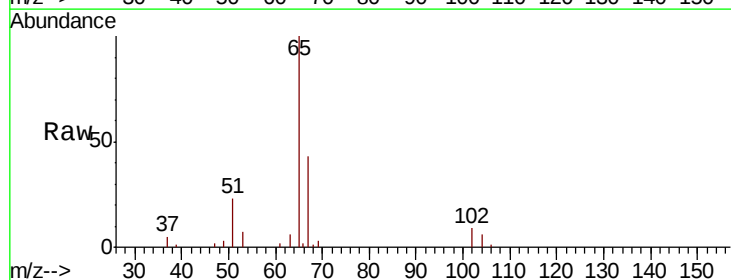
Instrument :  
MSVOA\_D  
ClientSampleId :  
FK-EF-01-006-ABCD

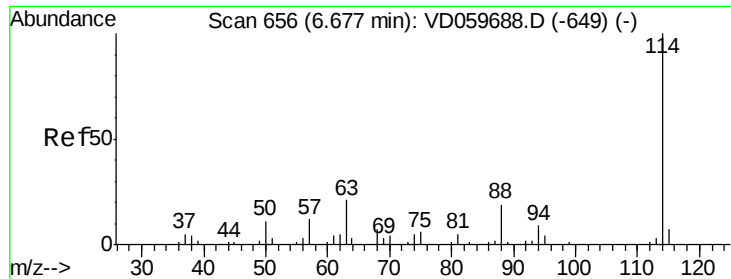
Tgt Ion: 84 Resp: 1352  
Ion Ratio Lower Upper  
84 100  
49 244.2 143.4 215.2#  
51 71.9 44.2 66.4#  
86 82.8 55.0 82.6#



#33  
1,2-Dichloroethane-d4  
Concen: N.D. ug/l  
RT: 6.02 min Scan# 589  
Delta R.T. 0.02 min  
Lab File: VD059721.D  
Acq: 9 Aug 2018 17:51

Tgt Ion: 65 Resp: 132957  
Ion Ratio Lower Upper  
65 100  
67 43.3 0.0 80.4

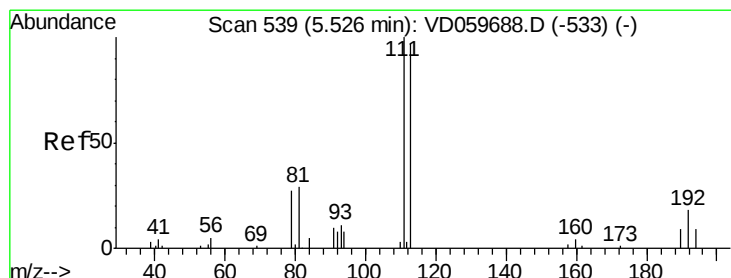
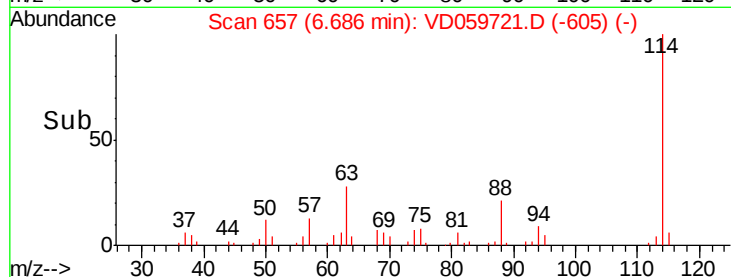
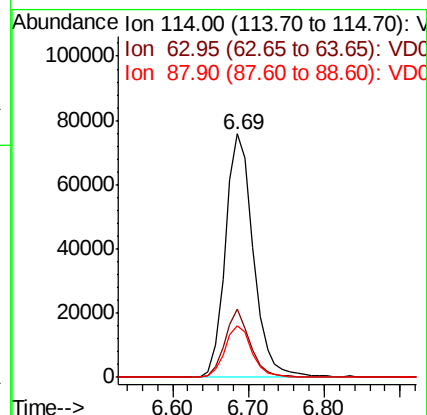
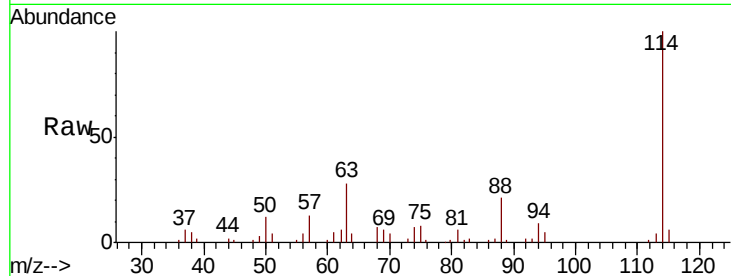




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.69 min Scan# 657  
 Delta R.T. 0.01 min  
 Lab File: VD059721.D  
 Acq: 9 Aug 2018 17:51

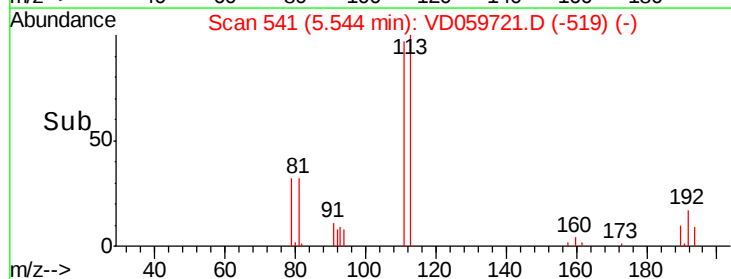
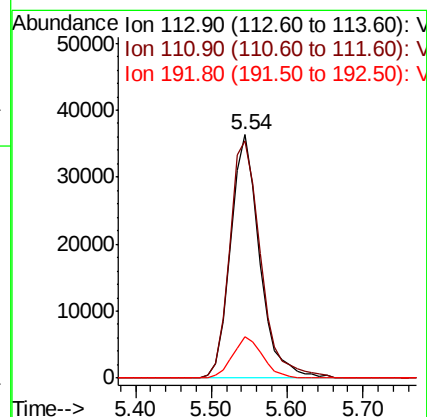
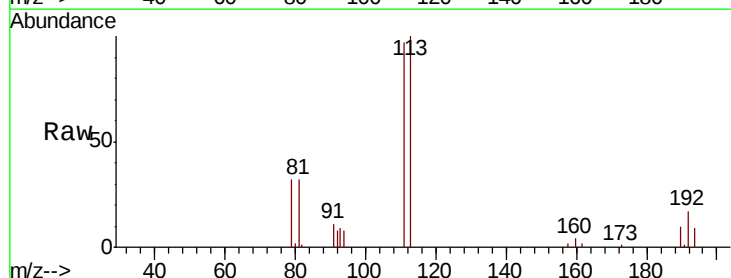
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 FK-EF-01-006-ABCD

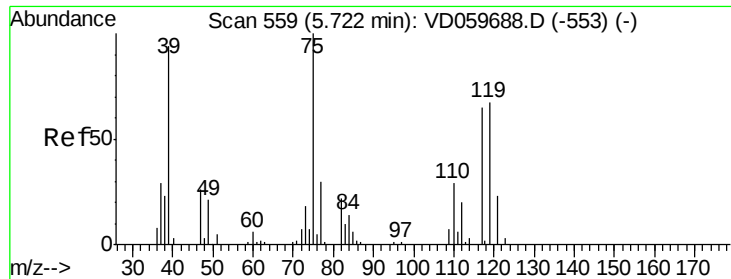
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 28.2  | 0.0   | 42.6  |
| 88      | 21.4  | 0.0   | 38.8  |



#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 5.54 min Scan# 541  
 Delta R.T. 0.02 min  
 Lab File: VD059721.D  
 Acq: 9 Aug 2018 17:51

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 97.2  | 82.8  | 124.2 |
| 192     | 17.2  | 14.6  | 22.0  |

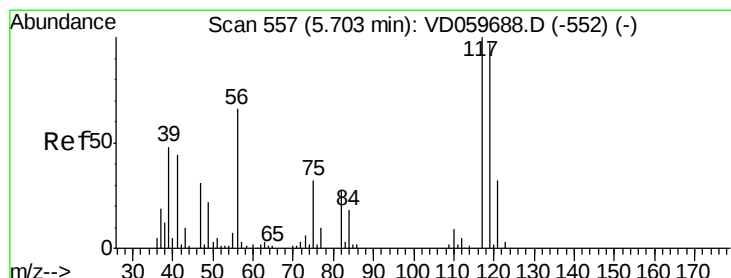
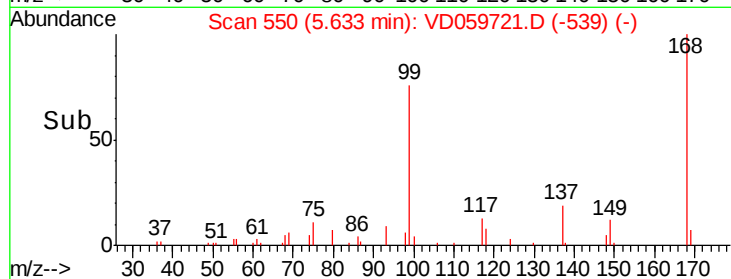
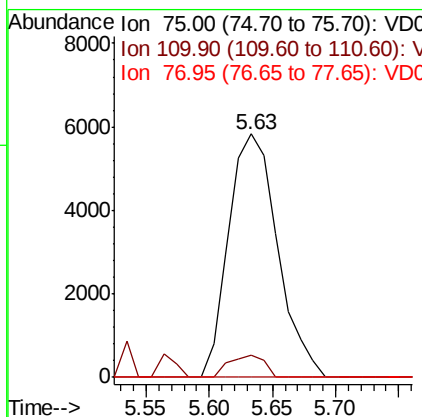
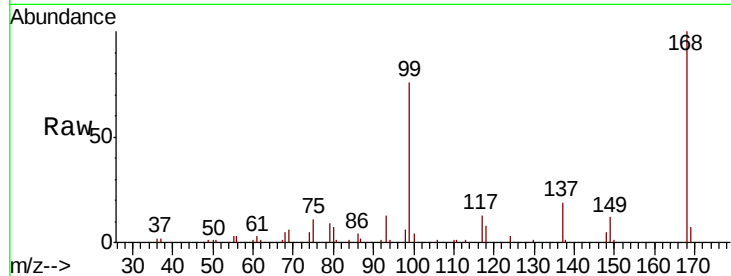




#36  
 1,1-Dichloropropene  
 Concen: 7.269 ug/l  
 RT: 5.63 min Scan# 550  
 Delta R.T. -0.09 min  
 Lab File: VD059721.D  
 Acq: 9 Aug 2018 17:51

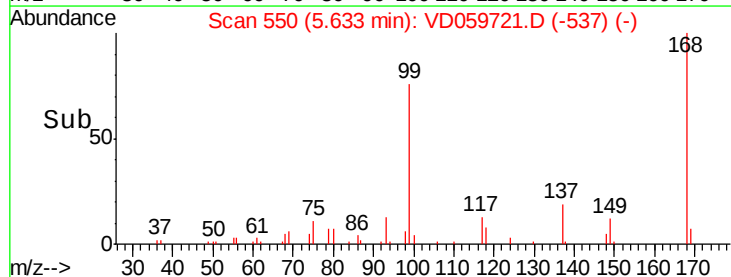
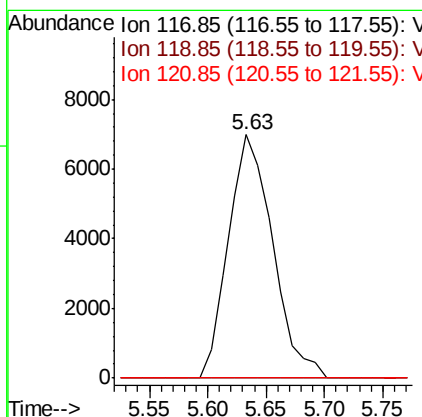
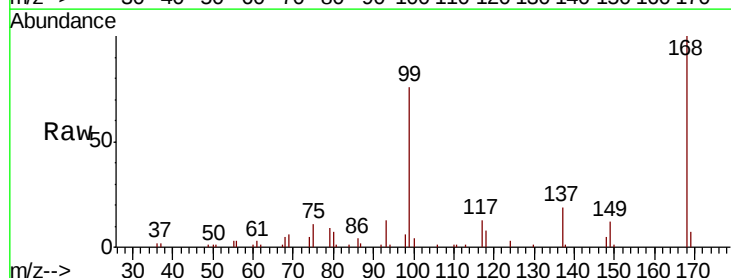
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 FK-EF-01-006-ABCD

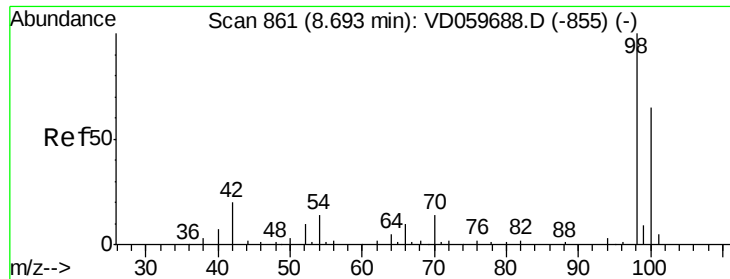
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.3   | 14.1  | 42.3# |
| 77      | 0.0   | 23.9  | 35.9# |



#38  
 Carbon Tetrachloride  
 Concen: 6.382 ug/l  
 RT: 5.63 min Scan# 550  
 Delta R.T. -0.07 min  
 Lab File: VD059721.D  
 Acq: 9 Aug 2018 17:51

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 0.0   | 75.3  | 112.9# |
| 121     | 0.0   | 24.4  | 36.6#  |

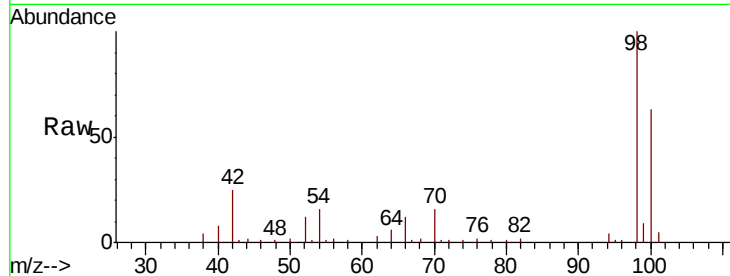




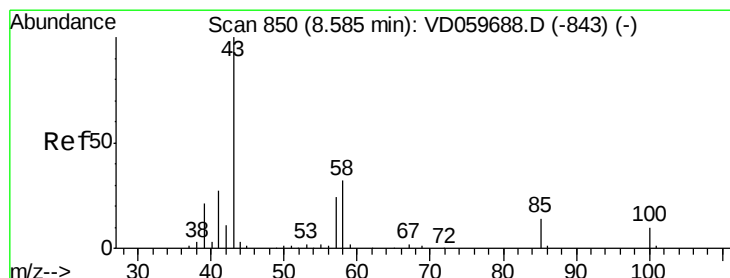
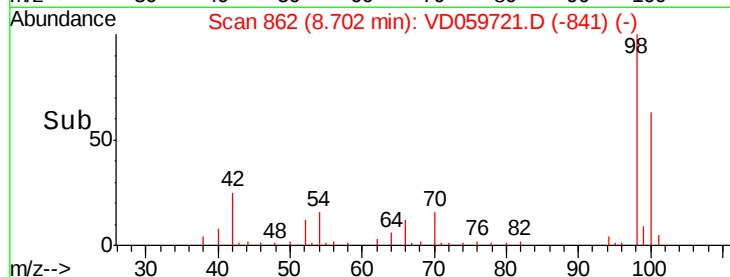
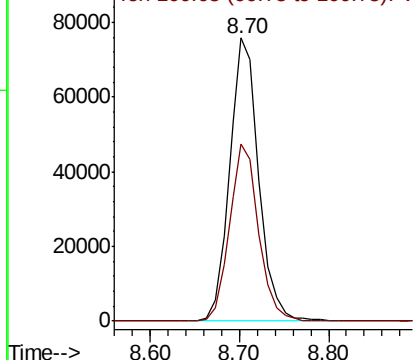
#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 8.70 min Scan# 862  
Delta R.T. 0.01 min  
Lab File: VD059721.D  
Acq: 9 Aug 2018 17:51

Instrument :  
MSVOA\_D  
ClientSampleId :  
FK-EF-01-006-ABCD

Tgt Ion: 98 Resp: 172042  
Ion Ratio Lower Upper  
98 100  
100 62.6 52.5 78.7

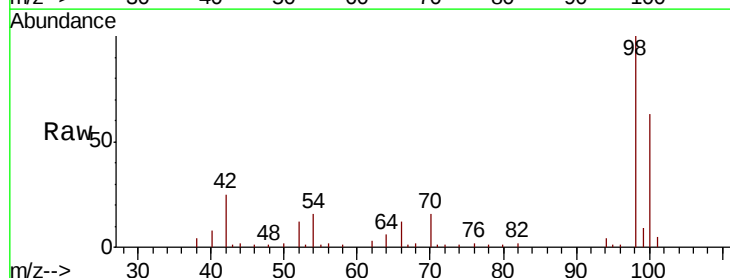


Abundance Ion 98.05 (97.75 to 98.75): VDC  
Ion 100.05 (99.75 to 100.75): VDC

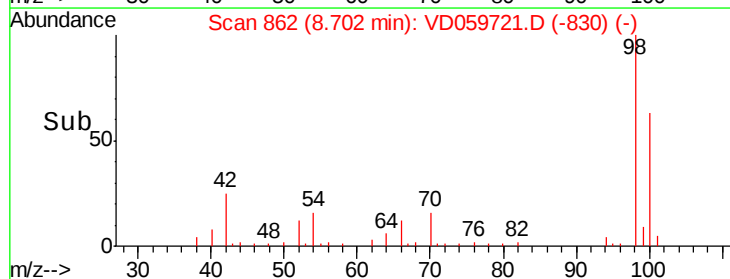
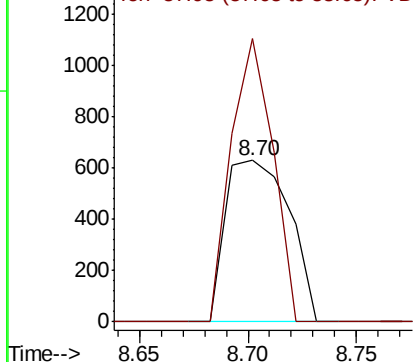


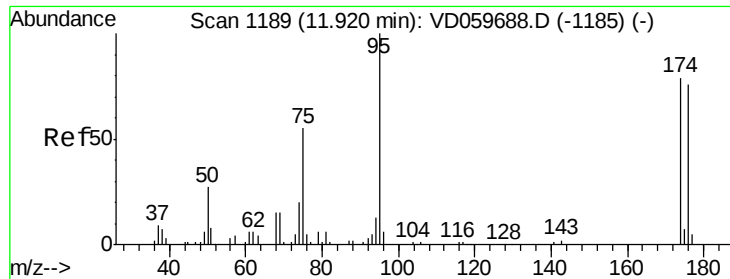
#51  
4-Methyl-2-Pentanone  
Concen: 1.302 ug/l  
RT: 8.70 min Scan# 862  
Delta R.T. 0.12 min  
Lab File: VD059721.D  
Acq: 9 Aug 2018 17:51

Tgt Ion: 43 Resp: 1296  
Ion Ratio Lower Upper  
43 100  
58 175.0 25.7 38.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC  
Ion 57.95 (57.65 to 58.65): VDC





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.93 min Scan# 1190

Delta R.T. 0.01 min

Lab File: VD059721.D

Acq: 9 Aug 2018 17:51

Instrument :

MSVOA\_D

ClientSampleId :

FK-EF-01-006-ABCD

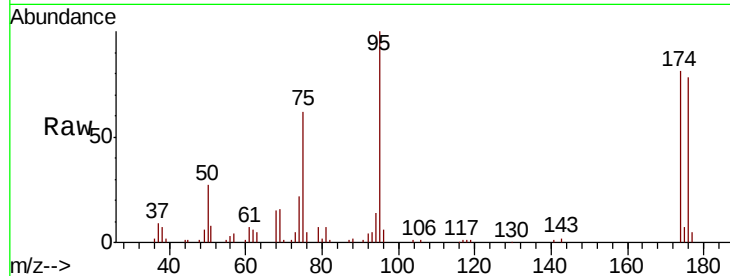
Tgt Ion: 95 Resp: 86339

Ion Ratio Lower Upper

95 100

174 81.5 0.0 158.4

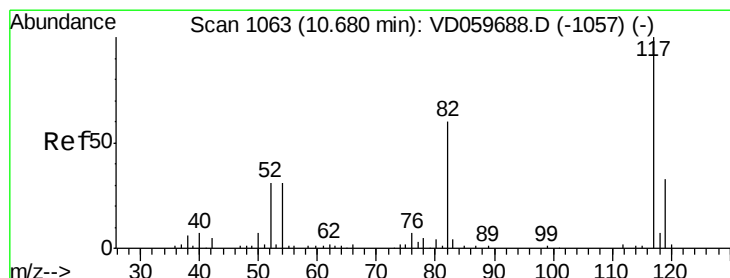
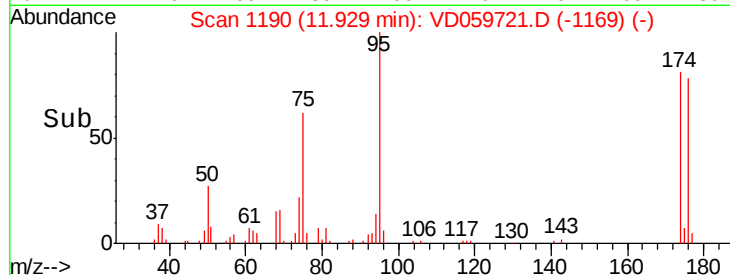
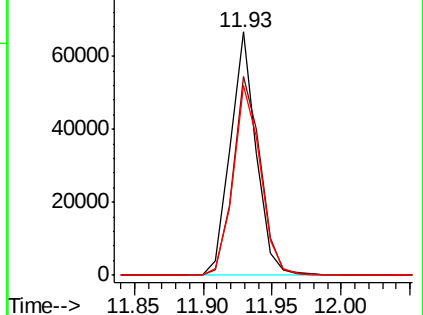
176 78.2 0.0 153.0



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.69 min Scan# 1064

Delta R.T. 0.01 min

Lab File: VD059721.D

Acq: 9 Aug 2018 17:51

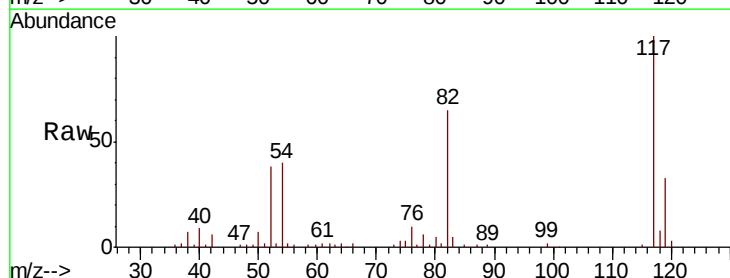
Tgt Ion: 117 Resp: 158104

Ion Ratio Lower Upper

117 100

82 64.9 47.7 71.5

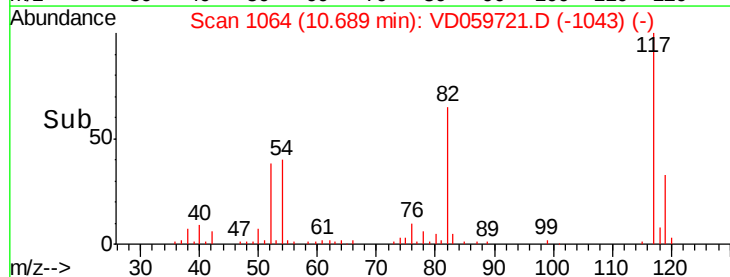
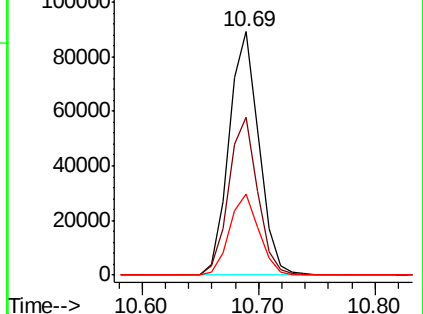
119 33.4 26.6 40.0

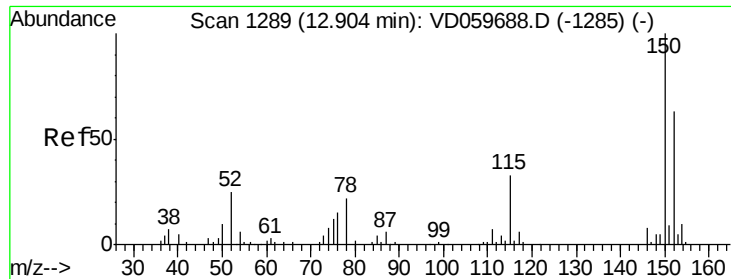


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.90 min Scan# 1289

Delta R.T. -0.00 min

Lab File: VD059721.D

Acq: 9 Aug 2018 17:51

Instrument :

MSVOA\_D

ClientSampleId :

FK-EF-01-006-ABCD

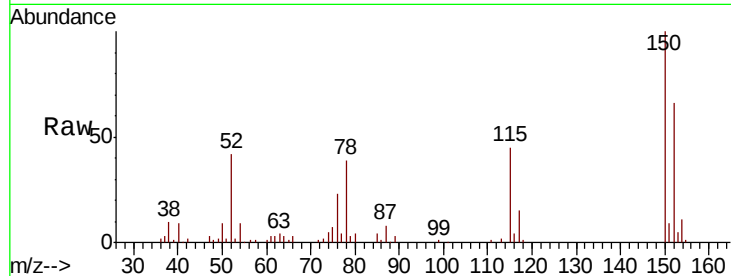
Tgt Ion:152 Resp: 83623

Ion Ratio Lower Upper

152 100

115 68.6 28.8 86.4

150 152.4 0.0 318.0

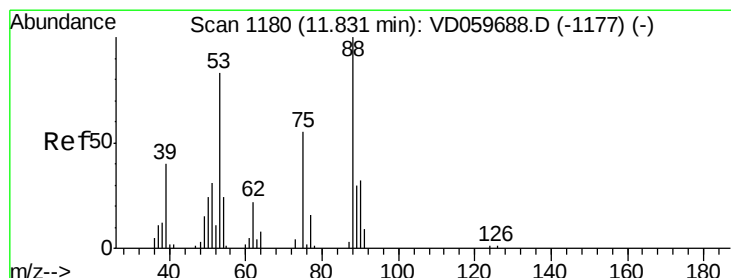
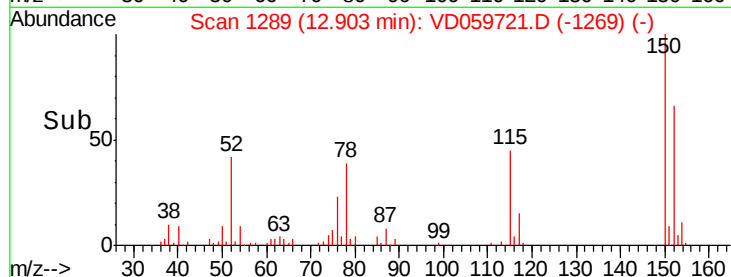
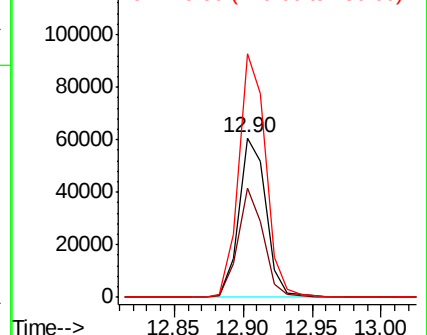


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#81

trans-1,4-Dichloro-2-butene

Concen: 165.439 ug/l

RT: 11.93 min Scan# 1190

Delta R.T. 0.10 min

Lab File: VD059721.D

Acq: 9 Aug 2018 17:51

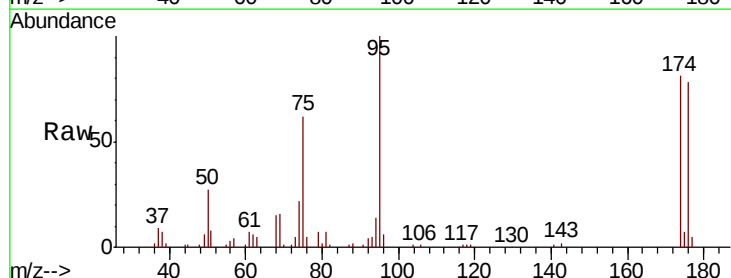
Tgt Ion: 75 Resp: 52193

Ion Ratio Lower Upper

75 100

53 0.0 120.5 180.7#

89 0.0 44.4 66.6#



Abundance

Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

