

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031919\  
 Data File : VX008194.D  
 Acq On : 19 Mar 2019 16:50  
 Operator : JC/SP  
 Sample : K1860-06  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE120D3-20190311

Quant Time: Mar 20 07:10:28 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X031919W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 20 06:51:58 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 348030   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 560952   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 471646   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 188432   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 242048   | 46.18 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 92.36% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 174693   | 46.52 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 93.04% |          |
| 50) Toluene-d8              | 8.71  | 98   | 692872   | 48.67 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 97.34% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 222715   | 45.43 | ug/l   | 0.00     |
| Spiked Amount               |       |      |          |       |        |          |
|                             |       |      | Recovery | =     | 90.86% |          |

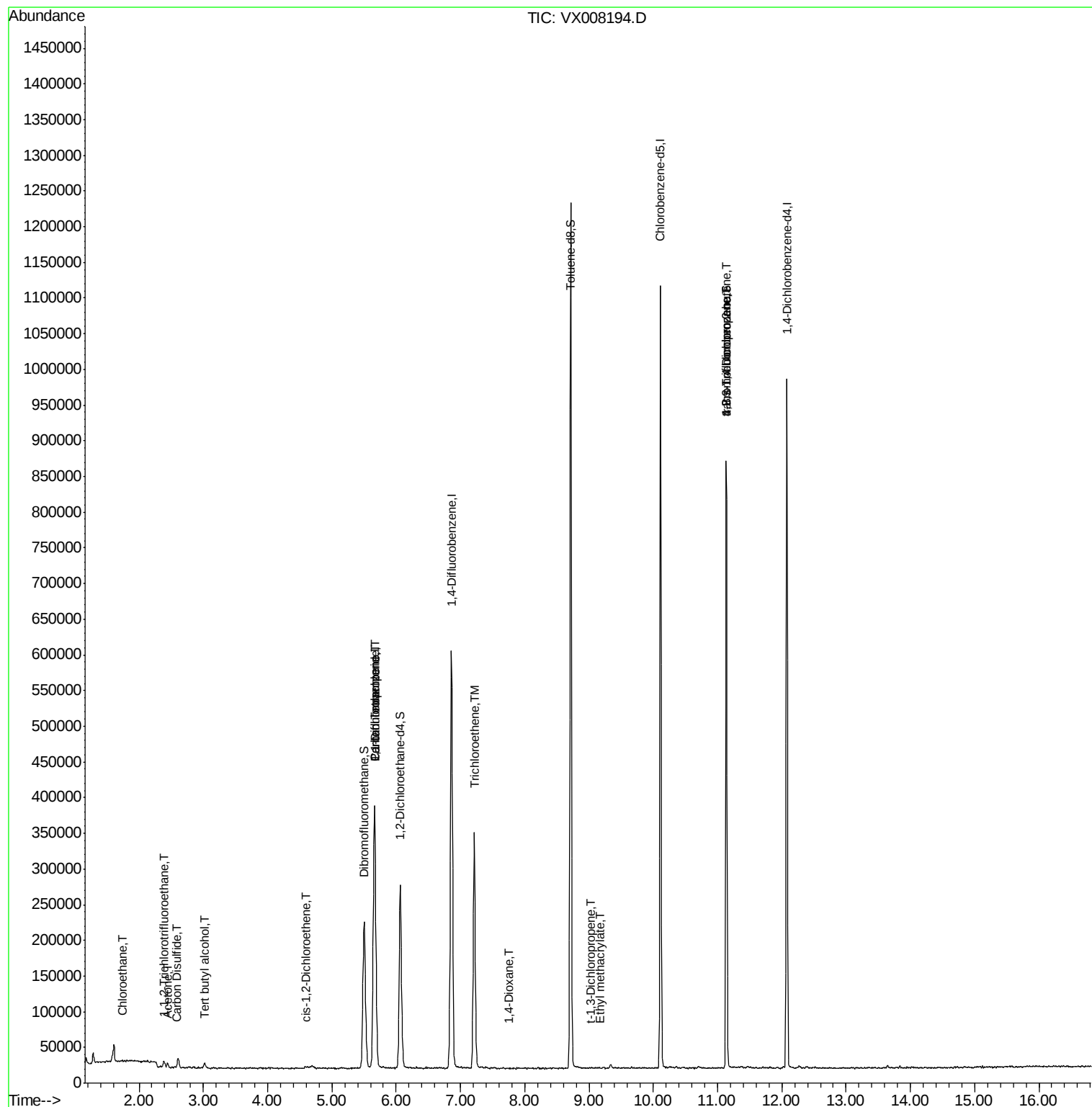
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 6) Chloroethane                | 1.75  | 64   | 1235     | 0.373     | ug/l # | 53     |
| 9) 1,1,2-Trichlorotrifluoroet  | 2.39  | 101  | 3281     | 0.734     | ug/l   | 85     |
| 11) Tert butyl alcohol         | 3.03  | 59   | 3431     | 3.058     | ug/l # | 90     |
| 13) Acrolein                   | 2.28  | 56   | 49       | Below Cal | #      | 32     |
| 16) Acetone                    | 2.44  | 43   | 6843     | 2.302     | ug/l   | 89     |
| 17) Carbon Disulfide           | 2.57  | 76   | 1598     | 0.790     | ug/l # | 77     |
| 27) cis-1,2-Dichloroethene     | 4.59  | 96   | 1066     | 0.205     | ug/l   | 82     |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 29694    | 4.547     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 33986    | 5.840     | ug/l # | 17     |
| 44) Trichloroethene            | 7.21  | 130  | 122056   | 25.824    | ug/l   | 89     |
| 49) 1,4-Dioxane                | 7.76  | 88   | 149      | 1.283     | ug/l # | 1      |
| 53) t-1,3-Dichloropropene      | 9.04  | 75   | 292      | 1.459     | ug/l   | 92     |
| 56) Ethyl methacrylate         | 9.18  | 69   | 243      | 0.555     | ug/l # | 59     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 117250   | 22.123    | ug/l # | 39     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 117250   | 56.215    | ug/l # | 12     |

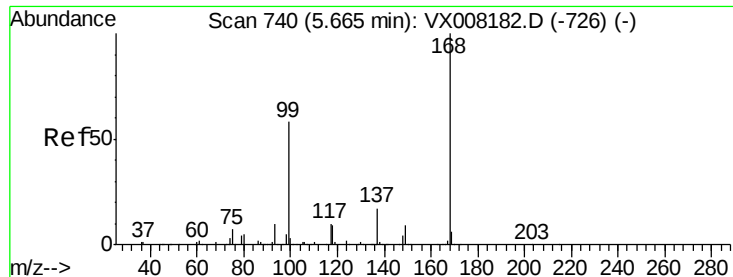
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX031919\  
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Quant Time: Mar 20 07:10:28 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X031919W.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 20 06:51:58 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX008194.D

Acq: 19 Mar 2019 16:50

Instrument :

MSVOA\_X

ClientSampleId :

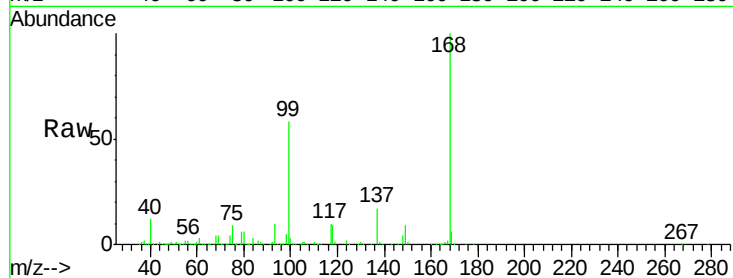
RE120D3-20190311

Tot Ion:168 Resp: 348030

Ion Ratio Lower Upper

168 100

99 58.3 37.6 56.4#



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

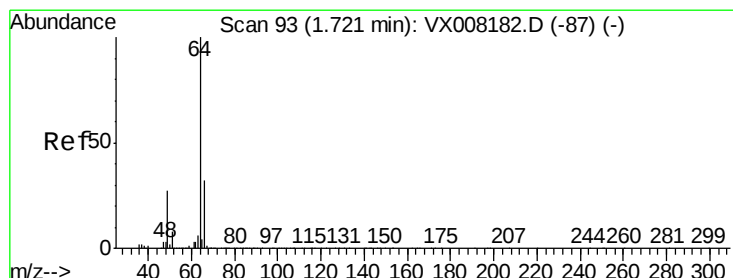
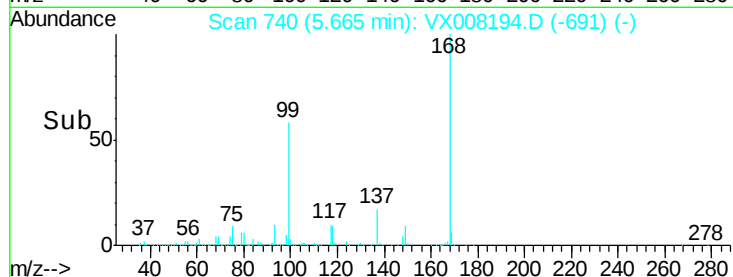
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: 0.373 ug/l

RT: 1.75 min Scan# 97

Delta R.T. 0.02 min

Lab File: VX008194.D

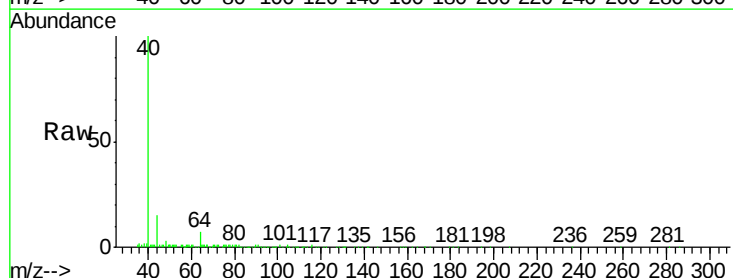
Acq: 19 Mar 2019 16:50

Tgt Ion: 64 Resp: 1235

Ion Ratio Lower Upper

64 100

66 5.6 25.2 37.8#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.75

1200

1000

800

600

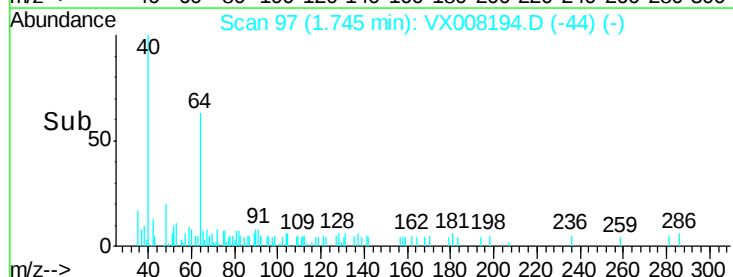
400

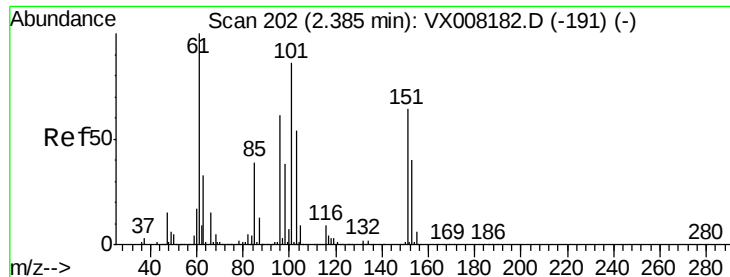
200

0

Time-->

1.65 1.70 1.75





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.734 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.00 min

Lab File: VX008194.D

Acq: 19 Mar 2019 16:50

Instrument :

MSVOA\_X

ClientSampleId :

RE120D3-20190311

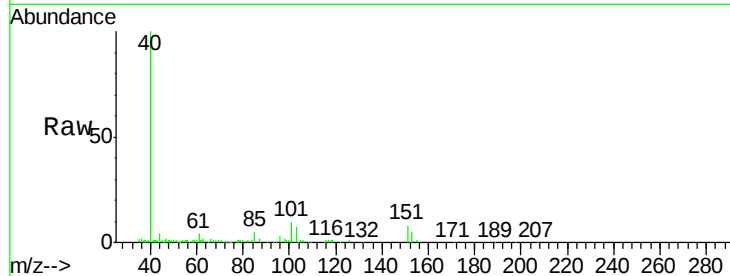
Tot Ion:101 Resp: 3281

Ion Ratio Lower Upper

101 100

85 50.3 33.8 50.6

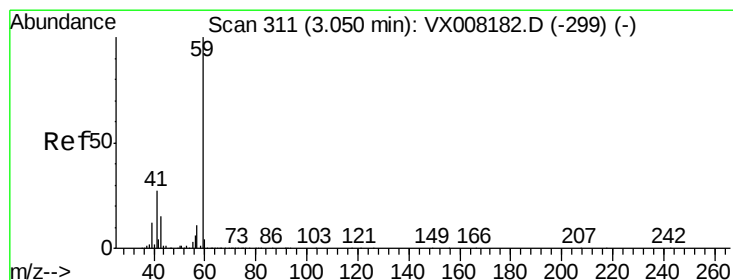
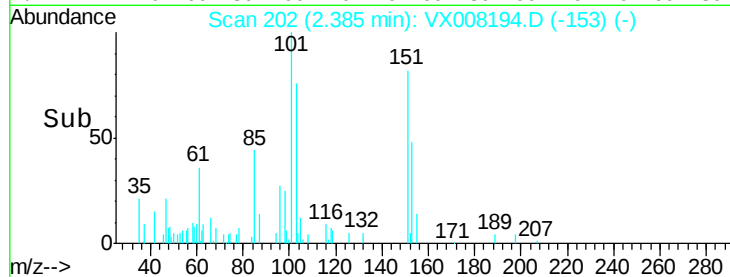
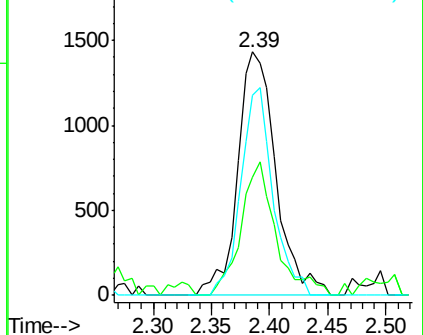
151 71.6 69.1 103.7



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 3.058 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.02 min

Lab File: VX008194.D

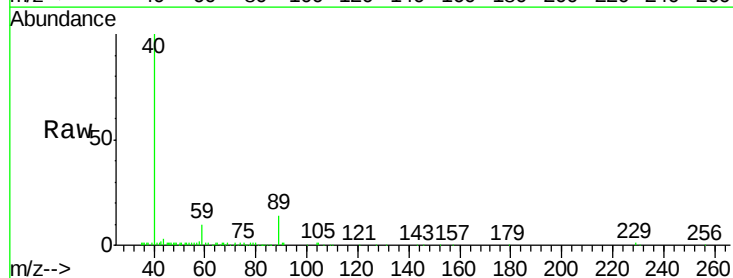
Acq: 19 Mar 2019 16:50

Tgt Ion: 59 Resp: 3431

Ion Ratio Lower Upper

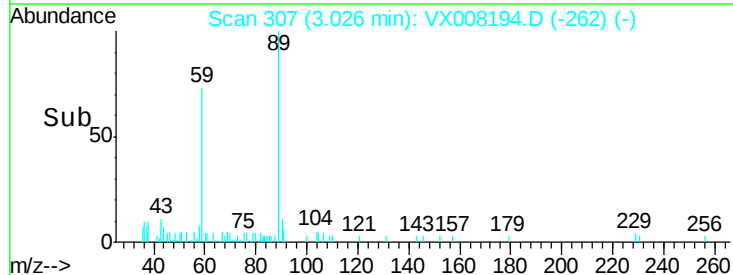
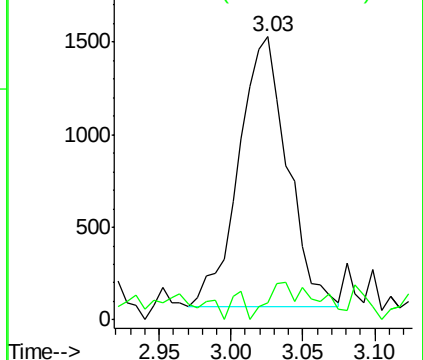
59 100

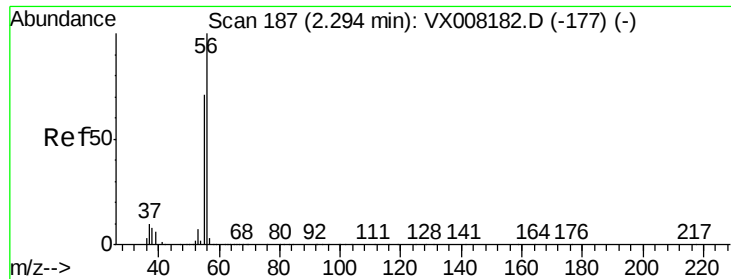
57 13.8 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

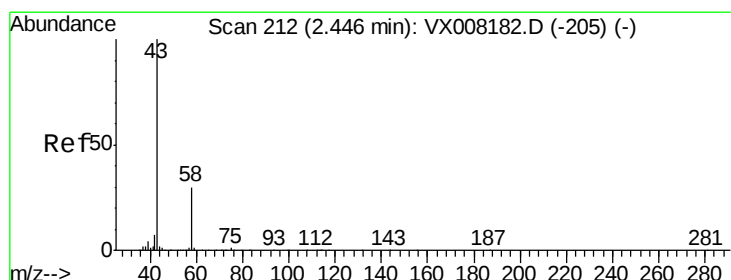
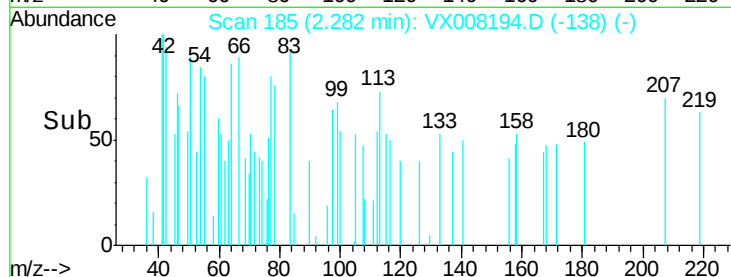
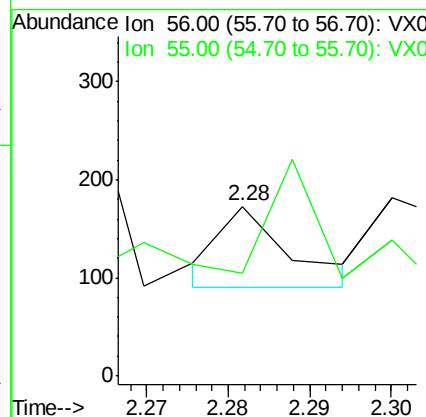
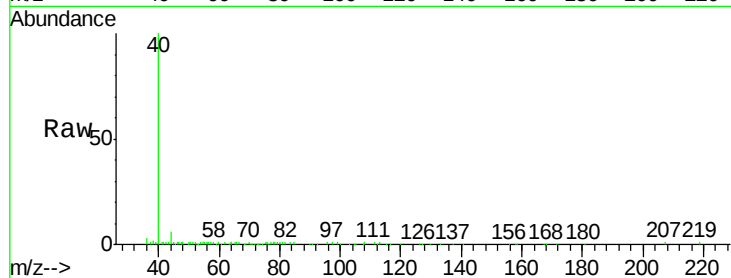




#13  
Acrolein  
Concen: Below Cal  
RT: 2.28 min Scan# 185  
Delta R.T. -0.01 min  
Lab File: VX008194.D  
Acq: 19 Mar 2019 16:50

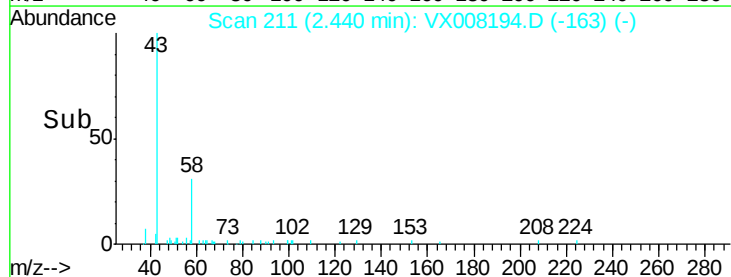
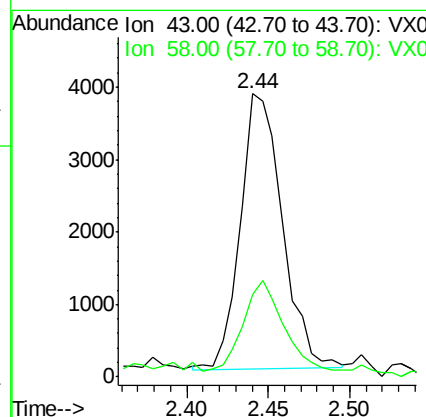
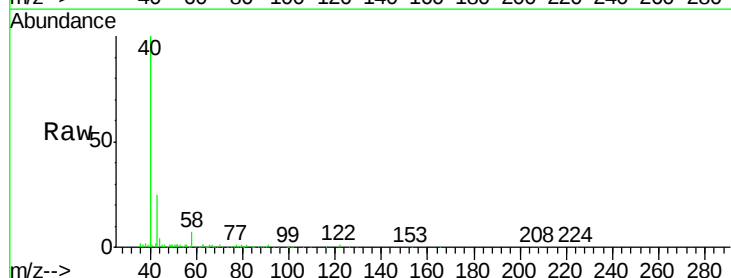
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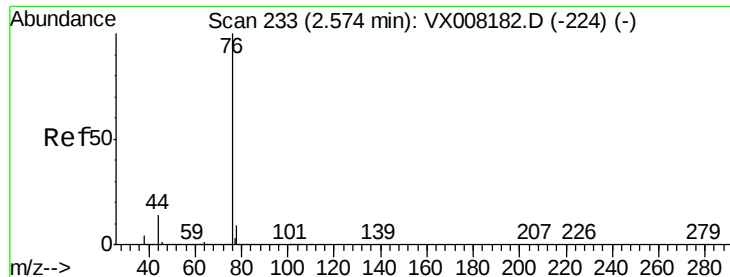
Tot Ion: 56 Resp: 49  
Ion Ratio Lower Upper  
56 100  
55 128.6 57.8 86.6#



#16  
Acetone  
Concen: 2.302 ug/l  
RT: 2.44 min Scan# 211  
Delta R.T. -0.01 min  
Lab File: VX008194.D  
Acq: 19 Mar 2019 16:50

Tgt Ion: 43 Resp: 6843  
Ion Ratio Lower Upper  
43 100  
58 26.0 25.5 38.3





#17

Carbon Disulfide

Concen: 0.790 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX008194.D

Acq: 19 Mar 2019 16:50

Instrument :

MSVOA\_X

ClientSampleId :

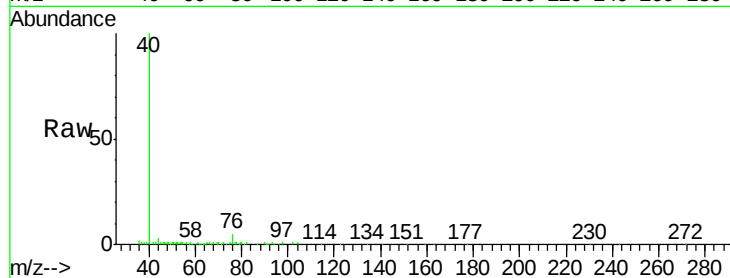
RE120D3-20190311

Tot Ion: 76 Resp: 1598

Ion Ratio Lower Upper

76 100

78 17.2 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

800

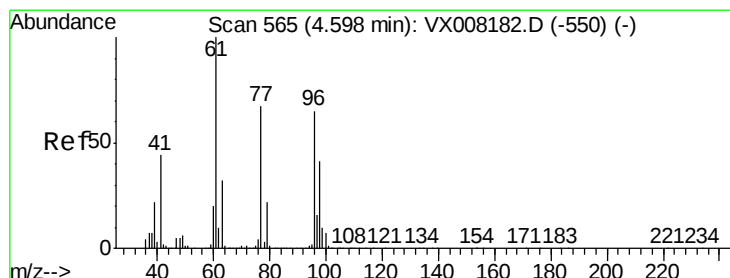
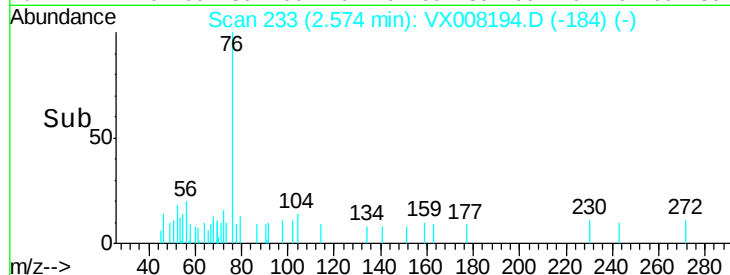
600

400

200

0

Time-->



#27

cis-1,2-Dichloroethene

Concen: 0.205 ug/l

RT: 4.59 min Scan# 564

Delta R.T. -0.01 min

Lab File: VX008194.D

Acq: 19 Mar 2019 16:50

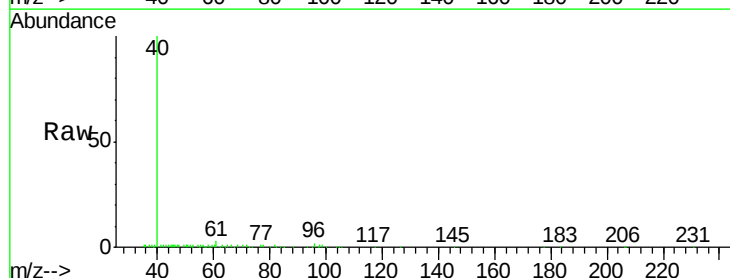
Tgt Ion: 96 Resp: 1066

Ion Ratio Lower Upper

96 100

61 112.8 0.0 288.0

98 64.2 0.0 129.0



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

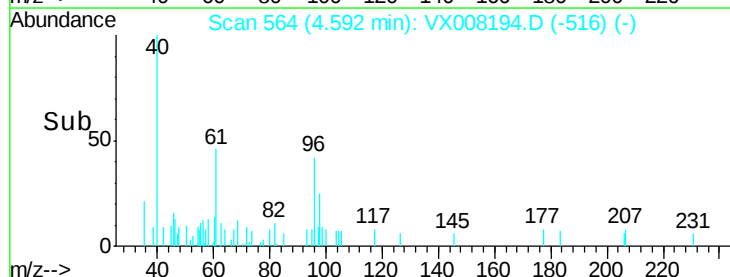
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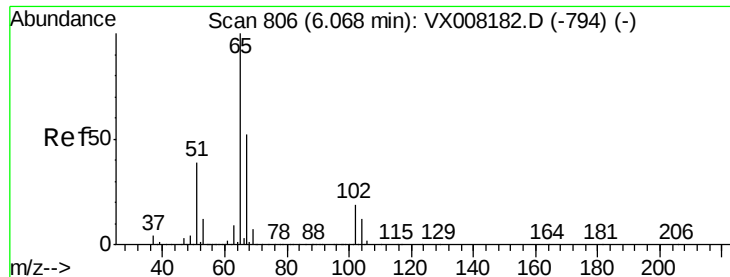
400

200

0

Time-->





#33

1,2-Dichloroethane-d4

Concen: 46.178 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.01 min

Lab File: VX008194.D

Acq: 19 Mar 2019 16:50

Instrument :

MSVOA\_X

ClientSampleId :

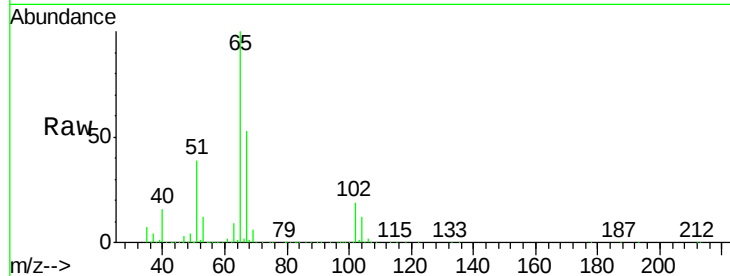
RE120D3-20190311

Tot Ion: 65 Resp: 242048

Ion Ratio Lower Upper

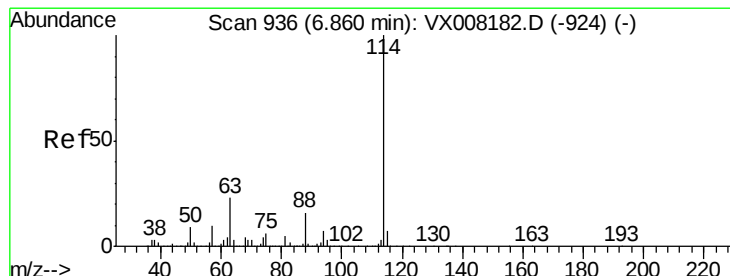
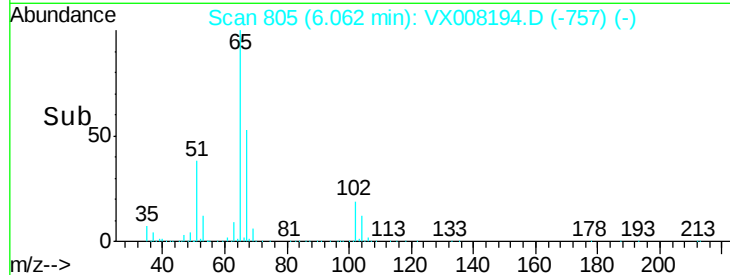
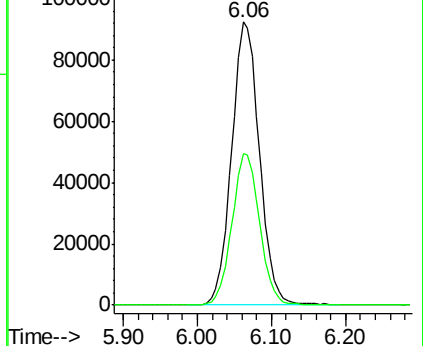
65 100

67 53.1 0.0 110.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX008194.D

Acq: 19 Mar 2019 16:50

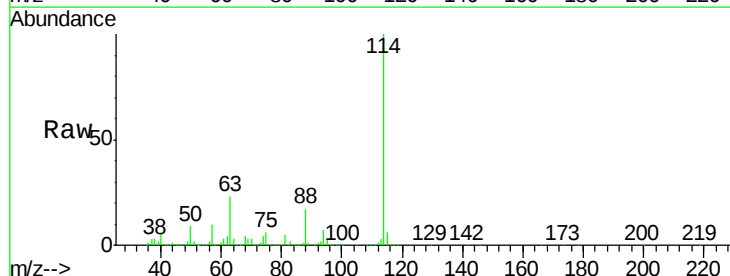
Tgt Ion: 114 Resp: 560952

Ion Ratio Lower Upper

114 100

63 23.3 0.0 39.8

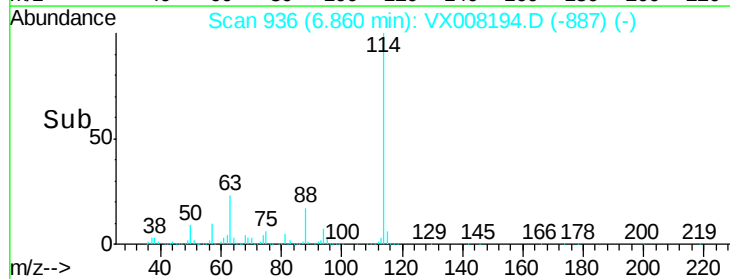
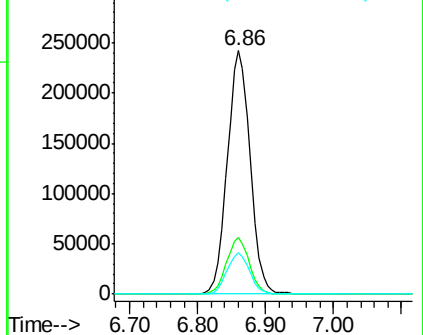
88 16.9 0.0 31.4

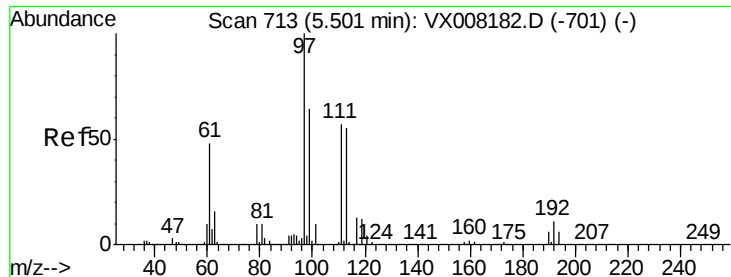


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

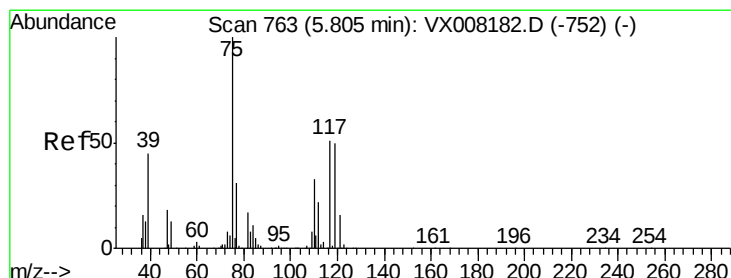
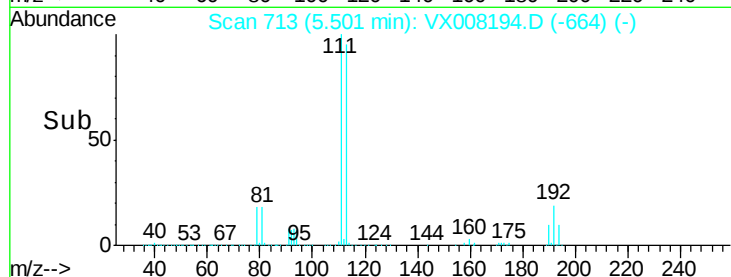
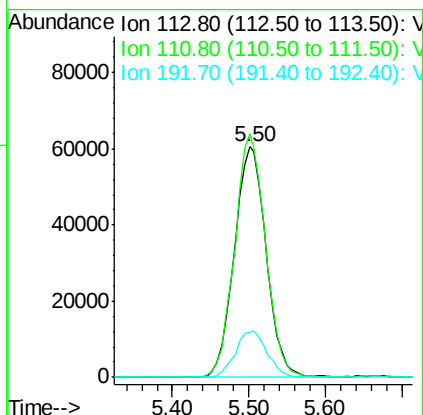
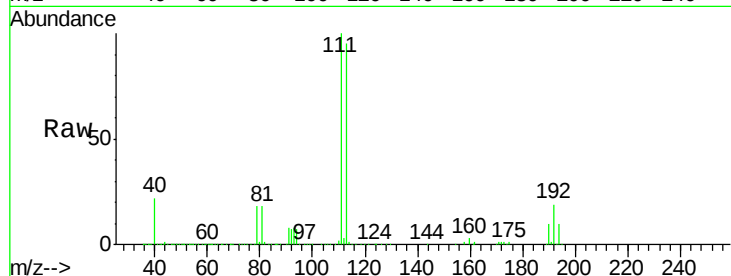




#35  
 Dibromofluoromethane  
 Concen: 46.520 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. 0.00 min  
 Lab File: VX008194.D  
 Acq: 19 Mar 2019 16:50

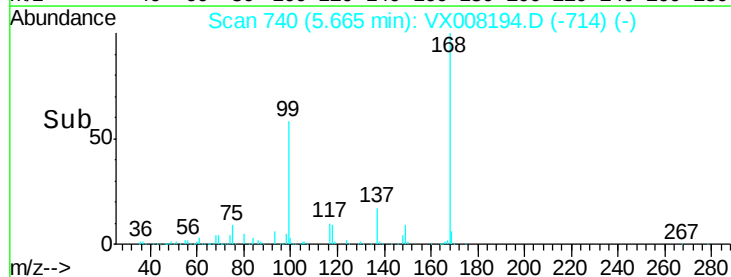
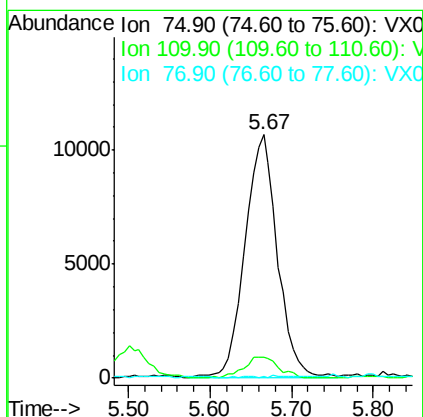
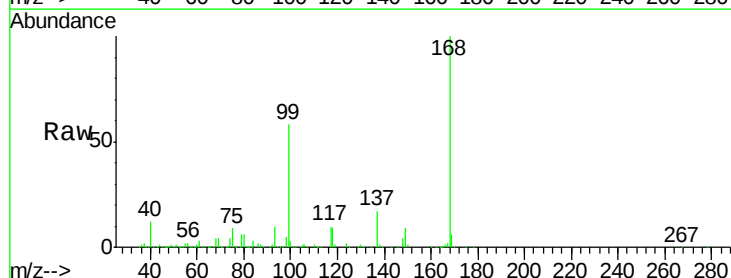
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE120D3-20190311

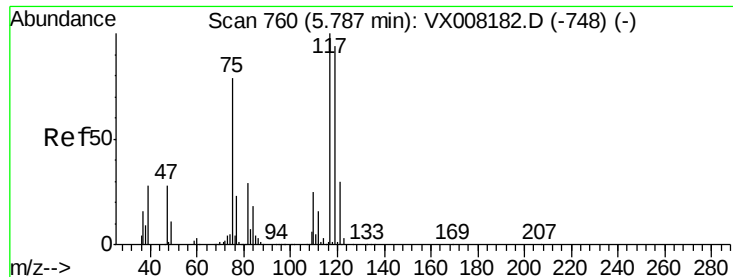
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.4 | 81.4  | 122.0 |
| 192     | 20.0  | 19.4  | 29.0  |



#36  
 1,1-Dichloropropene  
 Concen: 4.547 ug/l  
 RT: 5.67 min Scan# 740  
 Delta R.T. -0.14 min  
 Lab File: VX008194.D  
 Acq: 19 Mar 2019 16:50

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.3   | 18.4  | 55.0# |
| 77      | 0.4   | 25.0  | 37.4# |





#38

Carbon Tetrachloride

Concen: 5.840 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX008194.D

Acq: 19 Mar 2019 16:50

Instrument :

MSVOA\_X

ClientSampleId :

RE120D3-20190311

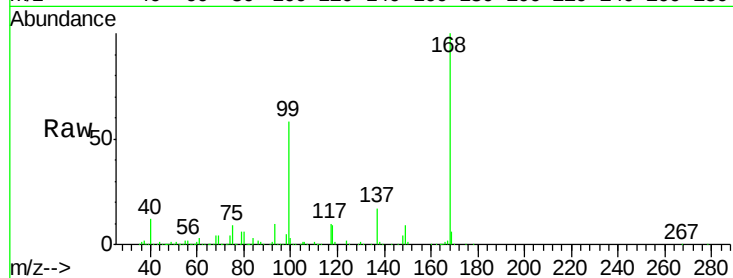
Tot Ion:117 Resp: 33986

Ion Ratio Lower Upper

117 100

119 6.0 76.2 114.2#

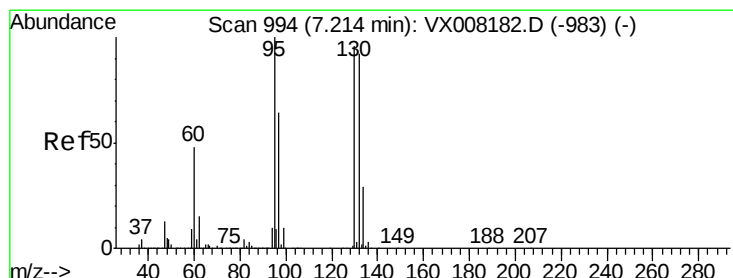
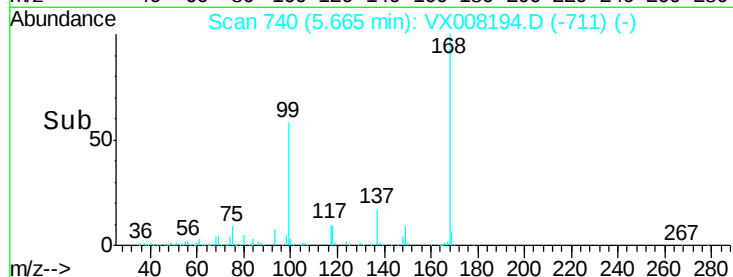
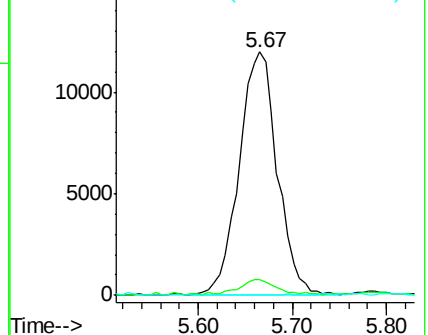
121 0.0 24.6 36.8#



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



#44

Trichloroethene

Concen: 25.824 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX008194.D

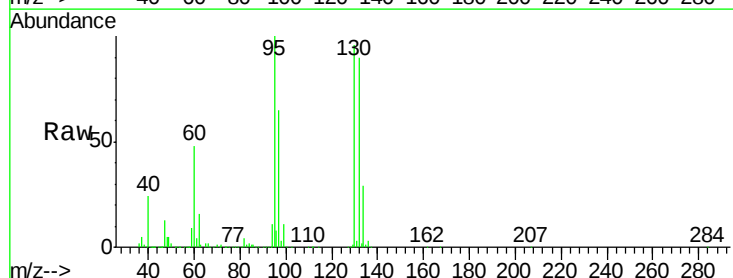
Acq: 19 Mar 2019 16:50

Tgt Ion:130 Resp: 122056

Ion Ratio Lower Upper

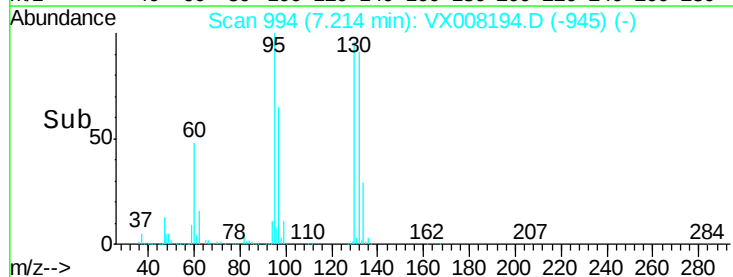
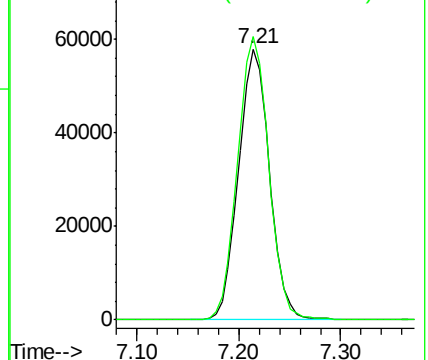
130 100

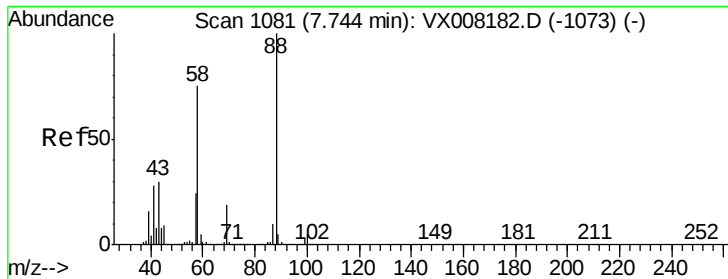
95 104.6 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#49

1,4-Dioxane

Concen: 1.283 ug/l

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX008194.D

Acq: 19 Mar 2019 16:50

Instrument :

MSVOA\_X

ClientSampleId :

RE120D3-20190311

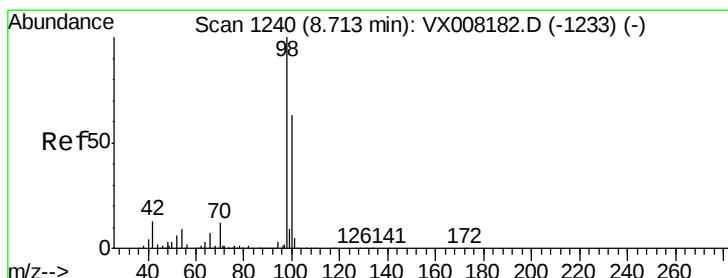
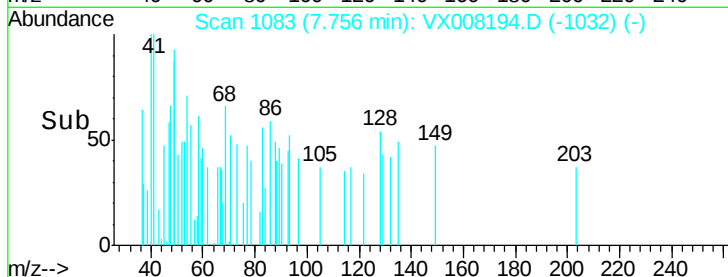
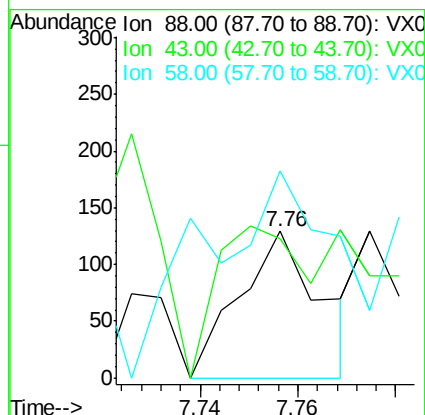
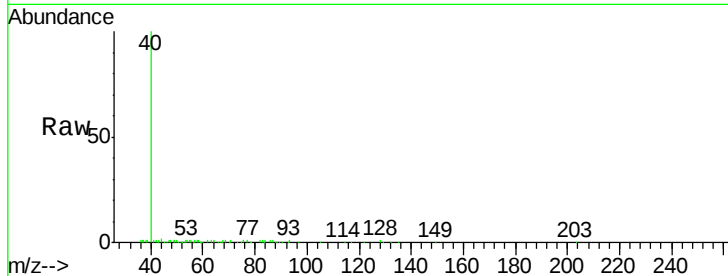
Tot Ion: 88 Resp: 149

Ion Ratio Lower Upper

88 100

43 110.7 25.1 37.7#

58 229.5 57.8 86.6#



#50

Toluene-d8

Concen: 48.666 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX008194.D

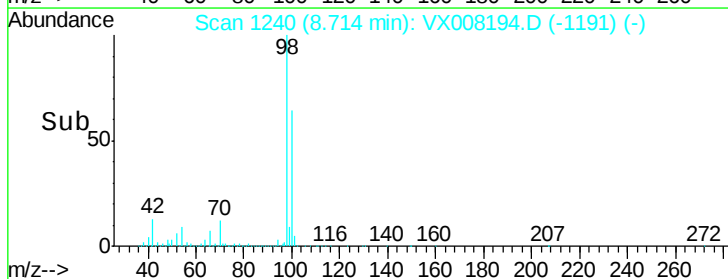
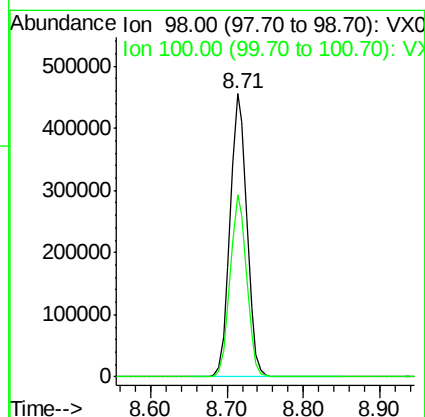
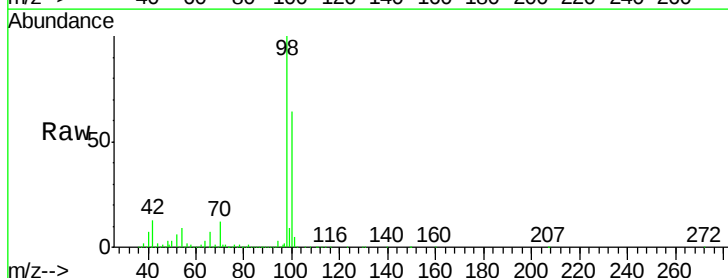
Acq: 19 Mar 2019 16:50

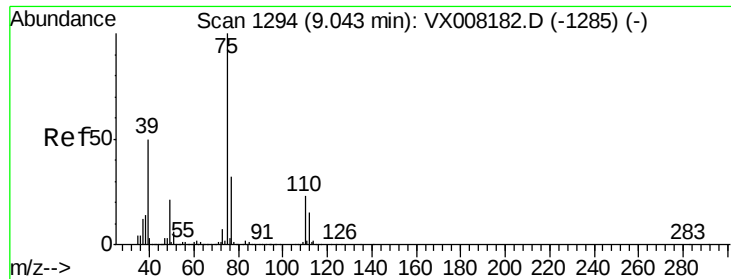
Tgt Ion: 98 Resp: 692872

Ion Ratio Lower Upper

98 100

100 63.3 51.7 77.5





#53

t-1,3-Dichloropropene

Concen: 1.459 ug/l

RT: 9.04 min Scan# 1293

Delta R.T. -0.01 min

Lab File: VX008194.D

Acq: 19 Mar 2019 16:50

Instrument :

MSVOA\_X

ClientSampleId :

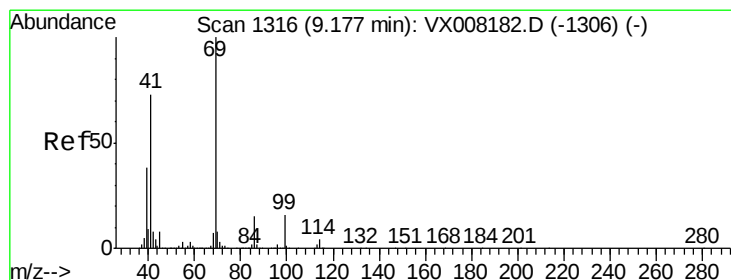
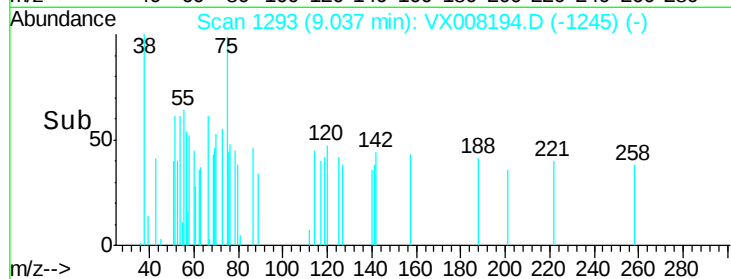
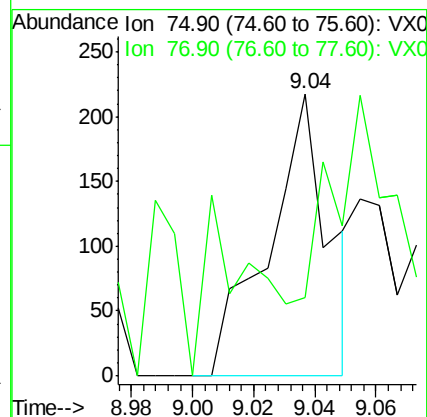
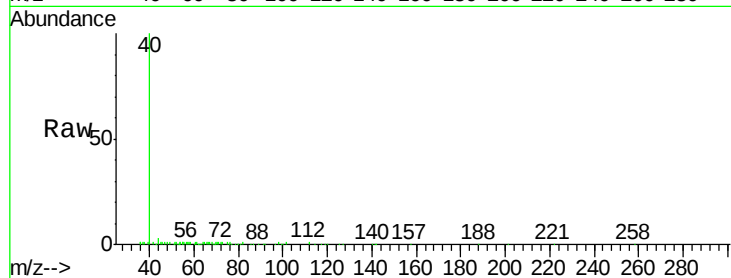
RE120D3-20190311

Tot Ion: 75 Resp: 292

Ion Ratio Lower Upper

75 100

77 27.5 25.4 38.0



#56

Ethyl methacrylate

Concen: 0.555 ug/l

RT: 9.18 min Scan# 1316

Delta R.T. 0.00 min

Lab File: VX008194.D

Acq: 19 Mar 2019 16:50

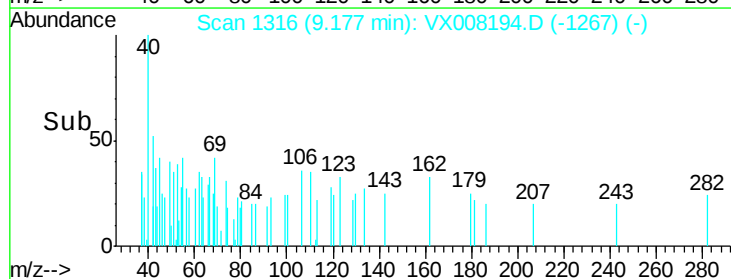
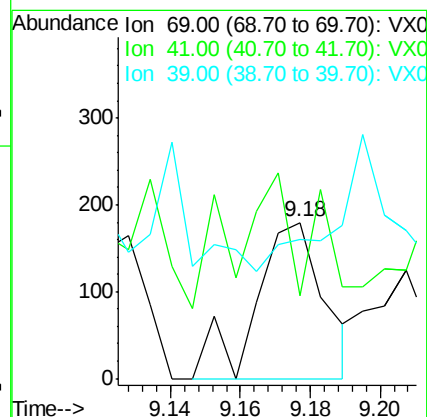
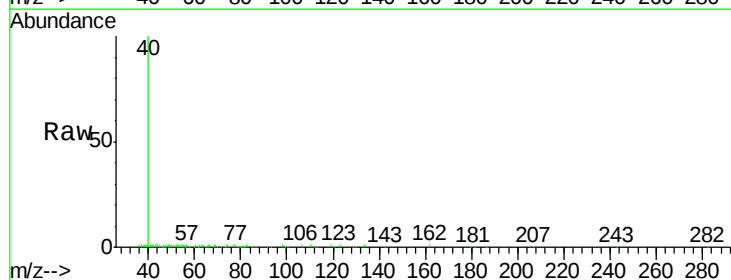
Tgt Ion: 69 Resp: 243

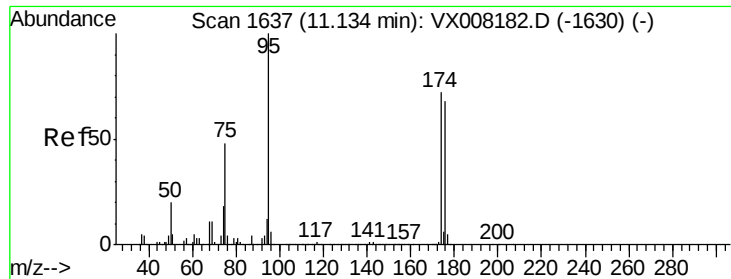
Ion Ratio Lower Upper

69 100

41 95.5 54.2 81.4#

39 0.0 25.0 37.4#

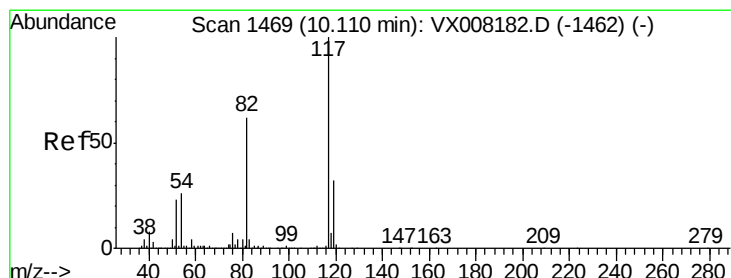
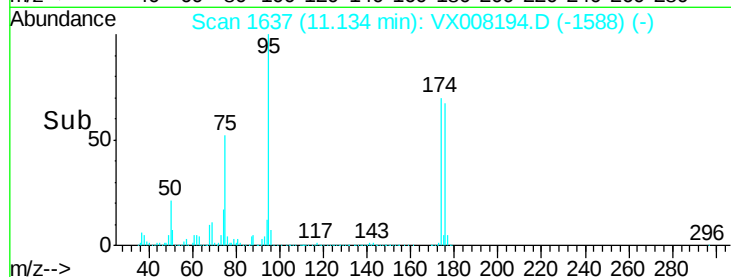
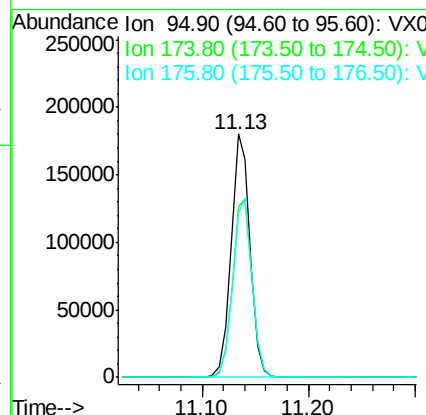
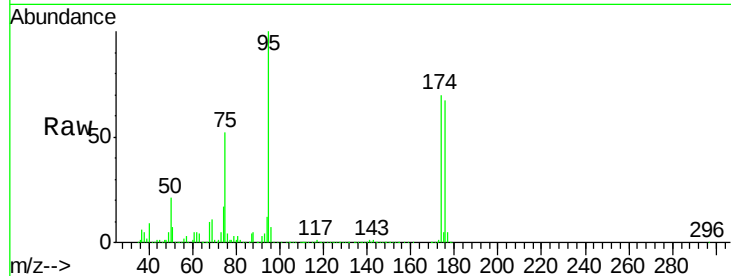




#62  
4-Bromofluorobenzene  
Concen: 45.432 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. 0.00 min  
Lab File: VX008194.D  
Acq: 19 Mar 2019 16:50

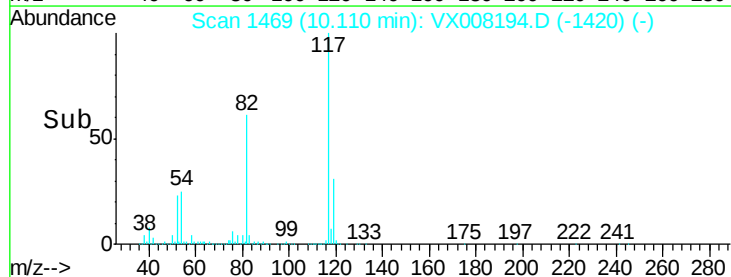
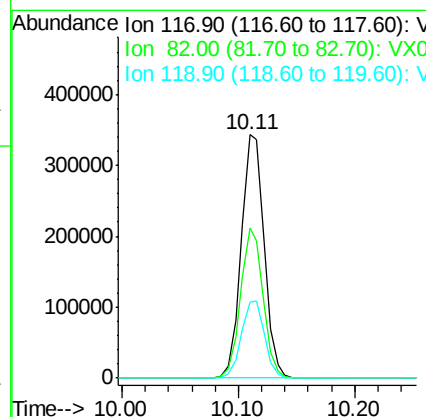
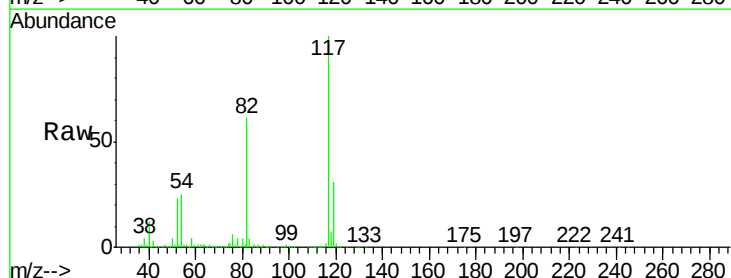
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE120D3-20190311

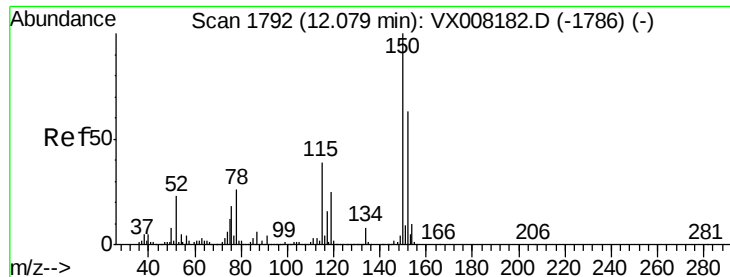
Tot Ion: 95 Resp: 222715  
Ion Ratio Lower Upper  
95 100  
174 76.3 0.0 182.8  
176 75.1 0.0 178.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX008194.D  
Acq: 19 Mar 2019 16:50

Tgt Ion: 117 Resp: 471646  
Ion Ratio Lower Upper  
117 100  
82 61.4 44.3 66.5  
119 31.4 25.3 37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX008194.D

Acq: 19 Mar 2019 16:50

Instrument :

MSVOA\_X

ClientSampleId :

RE120D3-20190311

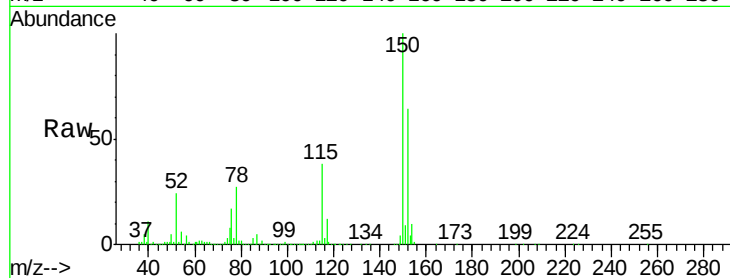
Tot Ion:152 Resp: 188432

Ion Ratio Lower Upper

152 100

115 60.2 38.6 115.7

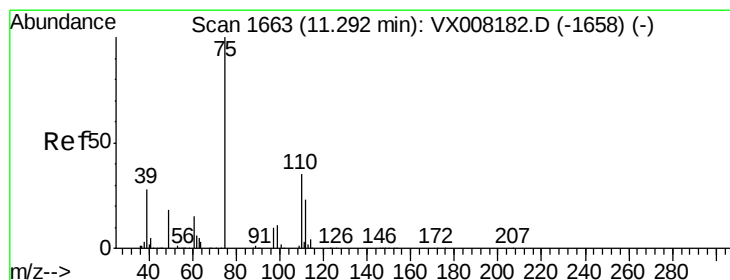
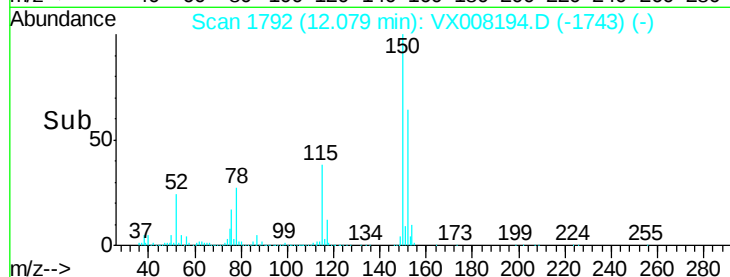
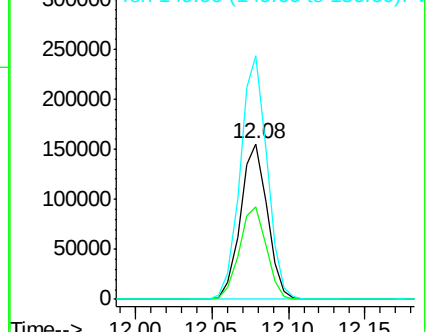
150 156.4 0.0 348.4



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: 22.123 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008194.D

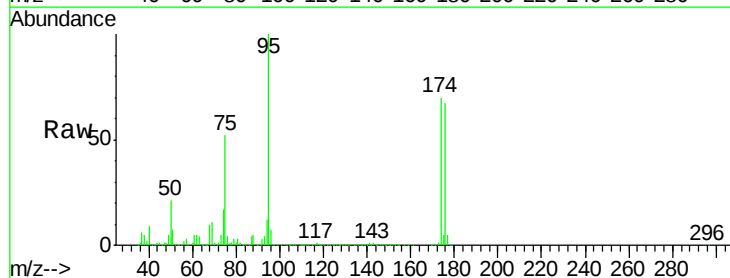
Acq: 19 Mar 2019 16:50

Tgt Ion: 75 Resp: 117250

Ion Ratio Lower Upper

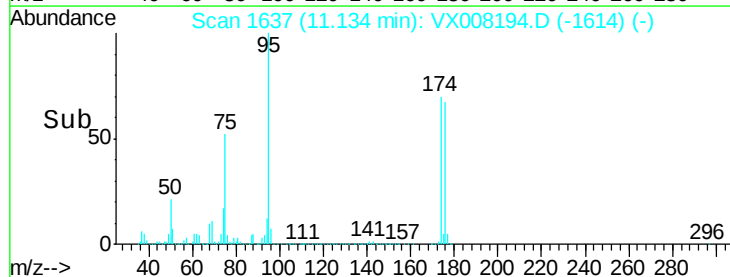
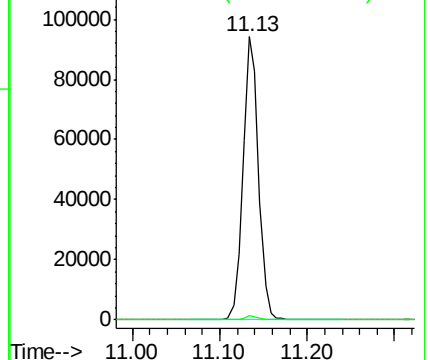
75 100

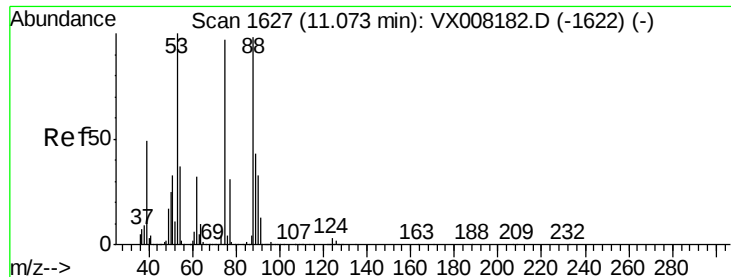
77 1.4 18.9 56.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 56.215 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008194.D

Acq: 19 Mar 2019 16:50

Instrument :

MSVOA\_X

ClientSampleId :

RE120D3-20190311

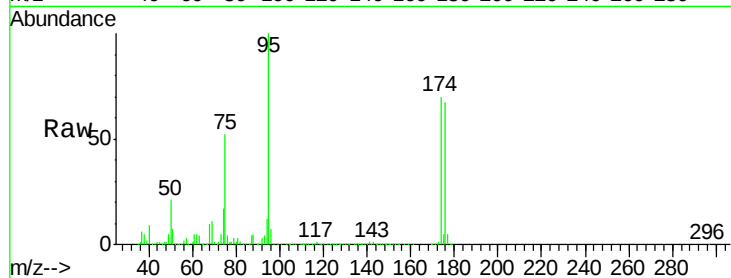
Tot Ion: 75 Resp: 117250

Ion Ratio Lower Upper

75 100

53 0.3 76.1 114.1#

89 0.0 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

