

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX083018\  
 Data File : VX004319.D  
 Acq On : 30 Aug 2018 13:36  
 Operator : JC/MD  
 Sample : VX0830MBL01  
 Misc : 5.00µL/100µL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0830MBL01

Quant Time: Aug 30 15:19:49 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082218W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Aug 23 05:39:44 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 260986   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 409489   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 362952   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 213497   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 186315   | 54.77 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 109.54% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 164019   | 53.84 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.68% |          |
| 50) Toluene-d8              | 8.71  | 98   | 591365   | 51.43 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.86% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 205865   | 47.98 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.96%  |          |

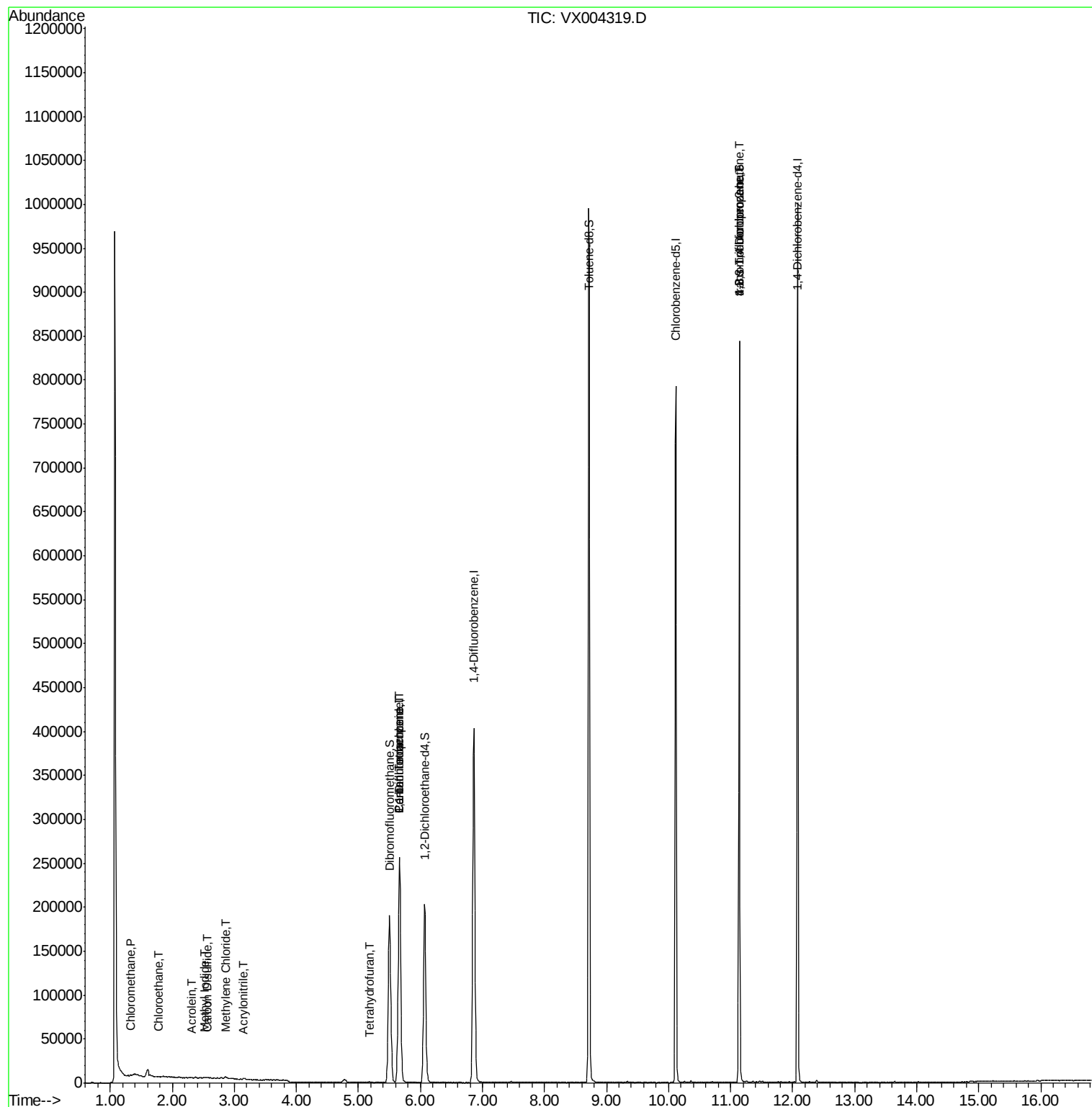
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 3) Chloromethane               | 1.32  | 50   | 835      | 0.54      | ug/l  | 95     |
| 5) Bromomethane                | 1.64  | 94   | 739      | Below Cal | #     | 56     |
| 6) Chloroethane                | 1.78  | 64   | 3878     | 2.37      | ug/l  | # 47   |
| 10) Methyl Iodide              | 2.51  | 142  | 570      | 4.42      | ug/l  | # 74   |
| 13) Acrolein                   | 2.30  | 56   | 103      | 0.59      | ug/l  | # 16   |
| 15) Acrylonitrile              | 3.15  | 53   | 536      | 0.30      | ug/l  | # 53   |
| 16) Acetone                    | 2.45  | 43   | 767      | Below Cal |       | 100    |
| 17) Carbon Disulfide           | 2.56  | 76   | 1616     | 1.01      | ug/l  | # 88   |
| 20) Methylene Chloride         | 2.85  | 84   | 993      | 0.30      | ug/l  | # 86   |
| 25) 2-Butanone                 | 4.71  | 43   | 207      | Below Cal | #     | 47     |
| 29) Tetrahydrofuran            | 5.17  | 42   | 988      | 0.68      | ug/l  | # 54   |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 17602    | 3.82      | ug/l  | # 49   |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 22721    | 5.25      | ug/l  | # 15   |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 98230    | 22.62     | ug/l  | # 37   |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 98230    | 73.40     | ug/l  | # 10   |
| 94) Hexachlorobutadiene        | 13.79 | 225  | 255      | Below Cal |       | 93     |

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

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Acq On : 30 Aug 2018 13:36  
Operator : JC/MD  
Sample : VX0830MBL01  
Misc : 5.0g/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0830MBL01

Quant Time: Aug 30 15:19:49 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X082218W.M  
Quant Title : SW846 8260  
QLast Update : Thu Aug 23 05:39:44 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.00 min

Lab File: VX004319.D

Acq: 30 Aug 2018 13:36

Instrument :

MSVOA\_X

ClientSampleId :

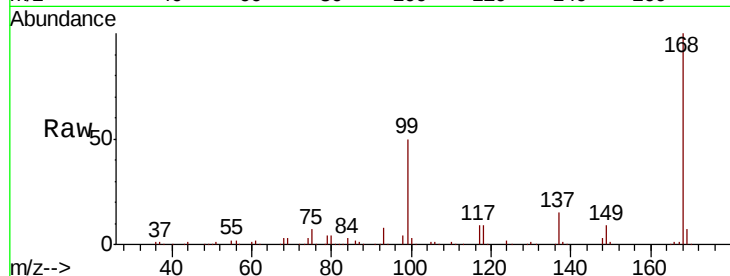
VX0830MBL01

Tot Ion:168 Resp: 260986

Ion Ratio Lower Upper

168 100

99 50.3 39.9 59.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

100000

80000

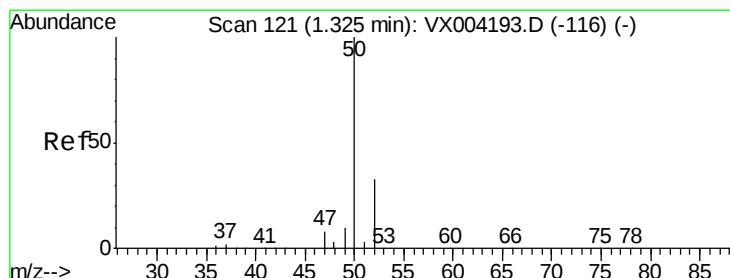
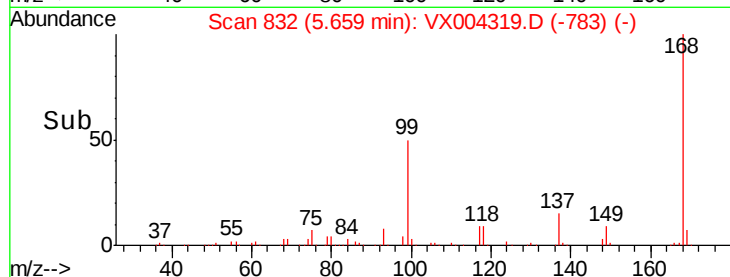
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.54 ug/l

RT: 1.32 min Scan# 120

Delta R.T. -0.01 min

Lab File: VX004319.D

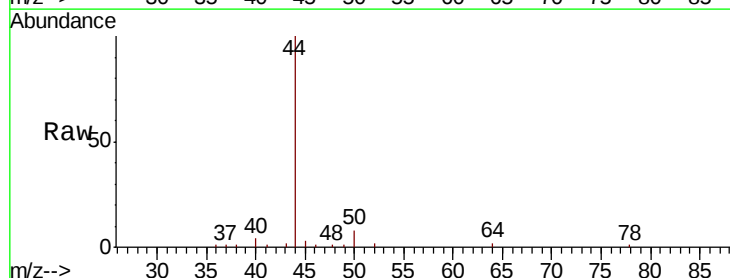
Acq: 30 Aug 2018 13:36

Tgt Ion: 50 Resp: 835

Ion Ratio Lower Upper

50 100

52 30.0 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

600

500

400

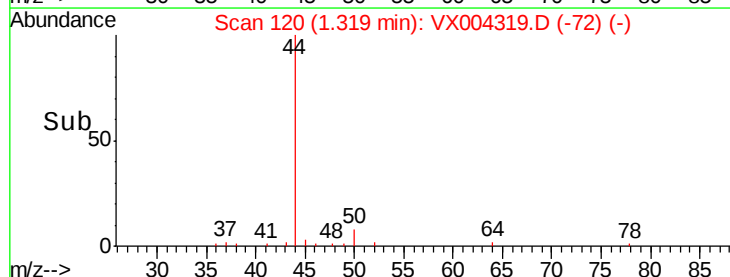
300

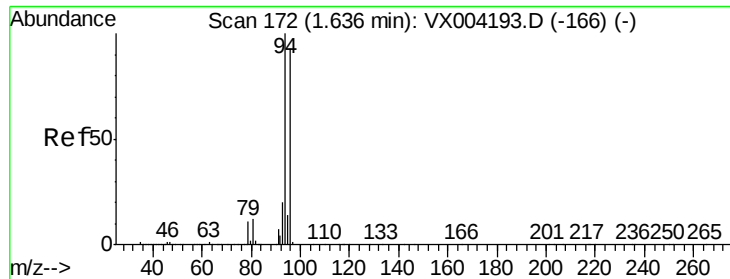
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX004319.D

Acq: 30 Aug 2018 13:36

Instrument :

MSVOA\_X

ClientSampled :

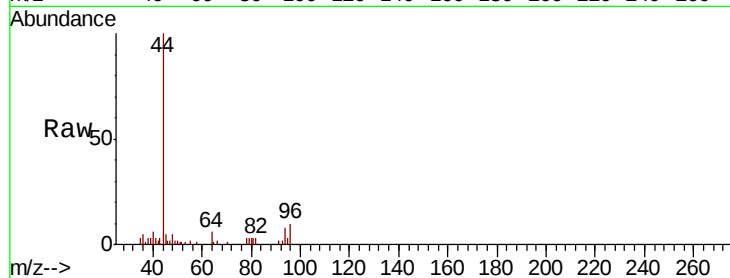
VX0830MBL01

Tot Ion: 94 Resp: 739

Ion Ratio Lower Upper

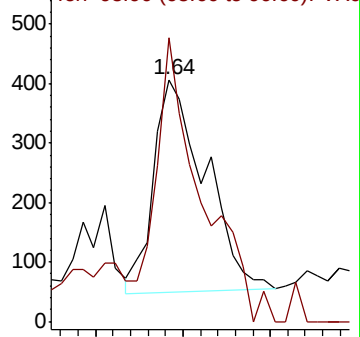
94 100

96 135.5 74.5 111.7#

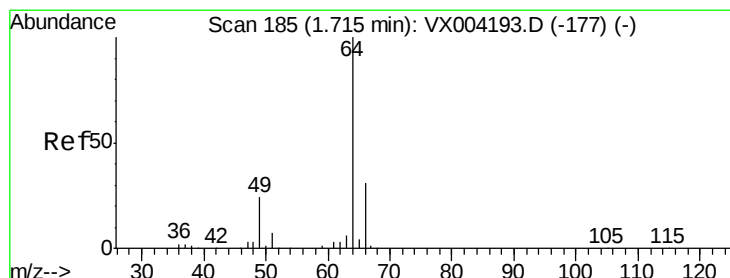
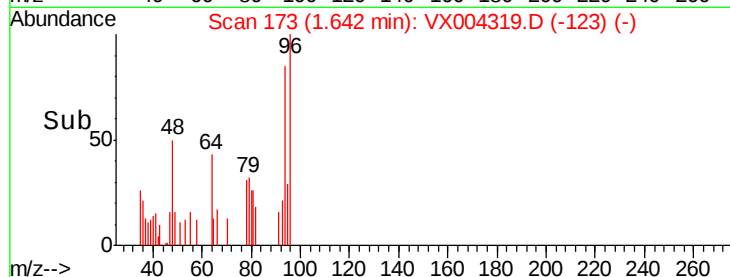


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#6

Chloroethane

Concen: 2.37 ug/l

RT: 1.78 min Scan# 195

Delta R.T. 0.06 min

Lab File: VX004319.D

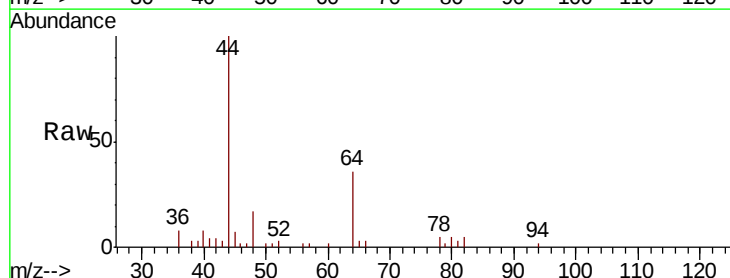
Acq: 30 Aug 2018 13:36

Tgt Ion: 64 Resp: 3878

Ion Ratio Lower Upper

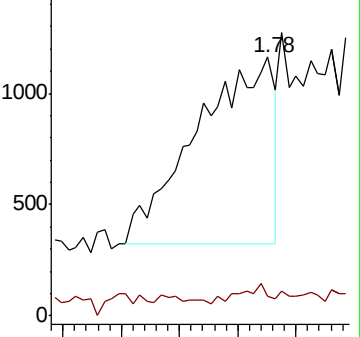
64 100

66 1.7 24.6 36.8#

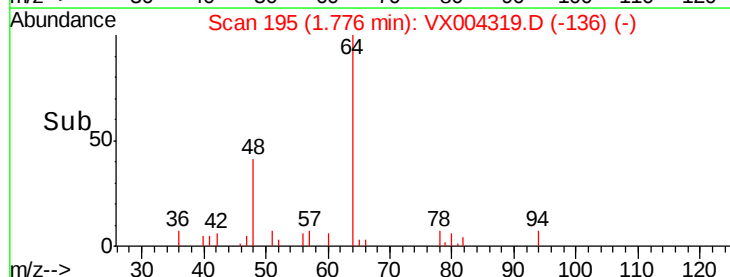


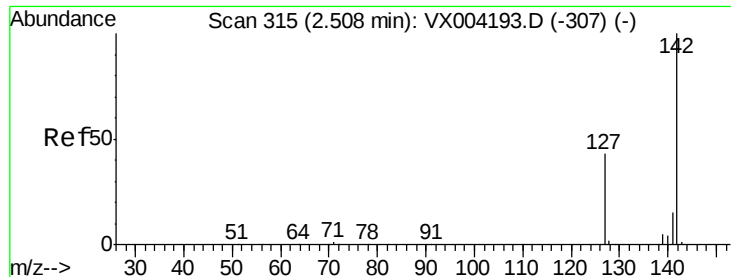
Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->

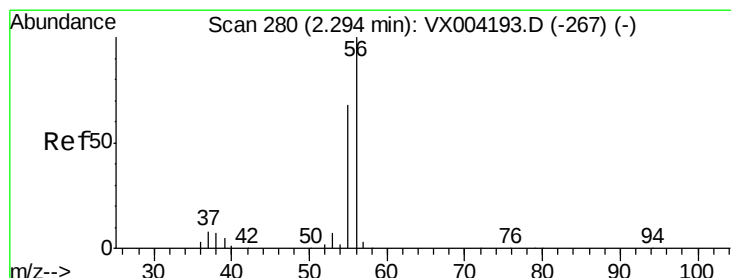
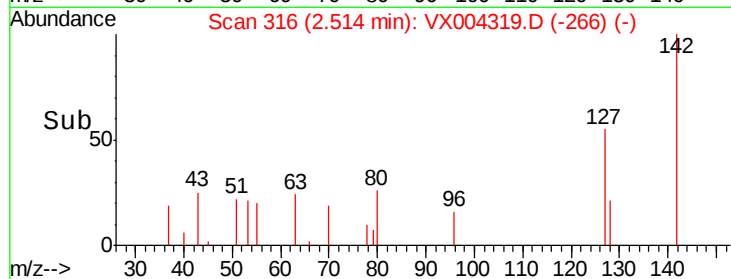
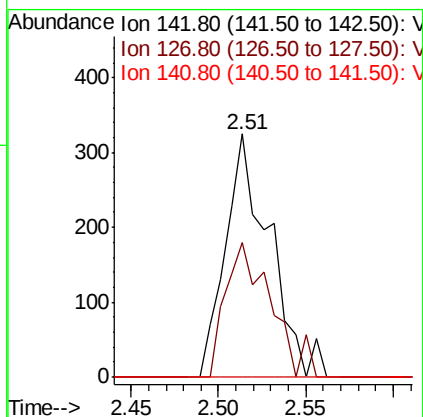
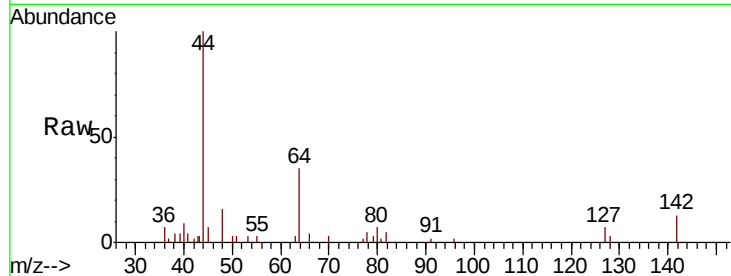




#10  
Methvl Iodide  
Concen: 4.42 ug/l  
RT: 2.51 min Scan# 316  
Delta R.T. 0.01 min  
Lab File: VX004319.D  
Acq: 30 Aug 2018 13:36

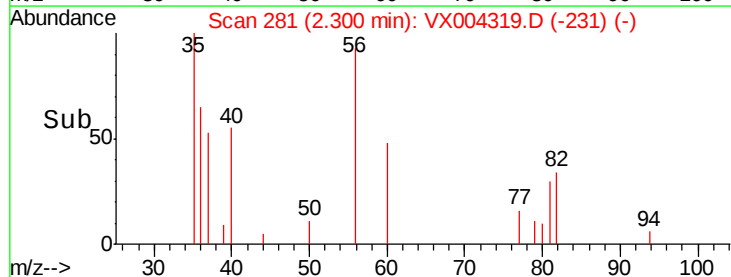
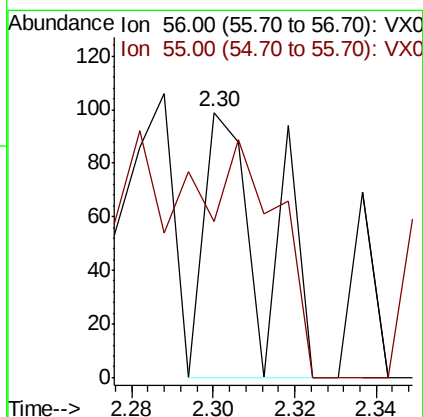
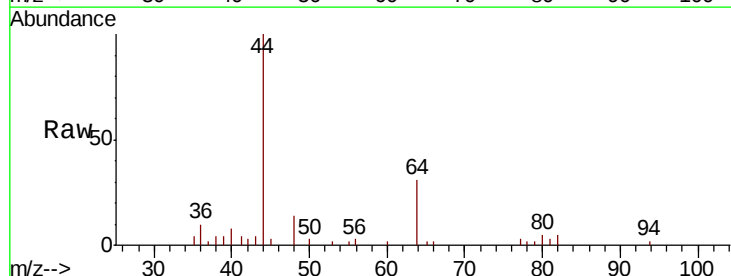
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0830MBL01

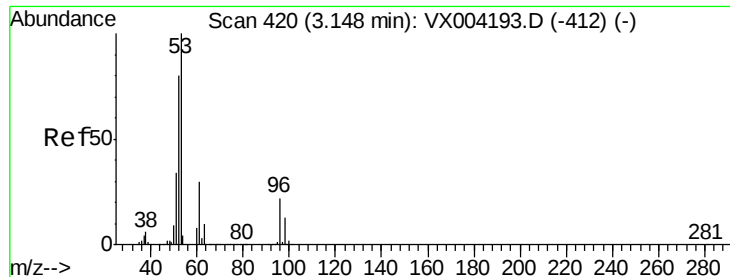
Tot Ion:142 Resp: 570  
Ion Ratio Lower Upper  
142 100  
127 57.0 33.8 50.6#  
141 0.0 11.4 17.0#



#13  
Acrolein  
Concen: 0.59 ug/l  
RT: 2.30 min Scan# 281  
Delta R.T. 0.01 min  
Lab File: VX004319.D  
Acq: 30 Aug 2018 13:36

Tgt Ion: 56 Resp: 103  
Ion Ratio Lower Upper  
56 100  
55 0.0 54.7 82.1#





#15

Acrylonitrile

Concen: 0.30 ug/l

RT: 3.15 min Scan# 420

Delta R.T. -0.00 min

Lab File: VX004319.D

Acq: 30 Aug 2018 13:36

Instrument :

MSVOA\_X

ClientSampleId :

VX0830MBL01

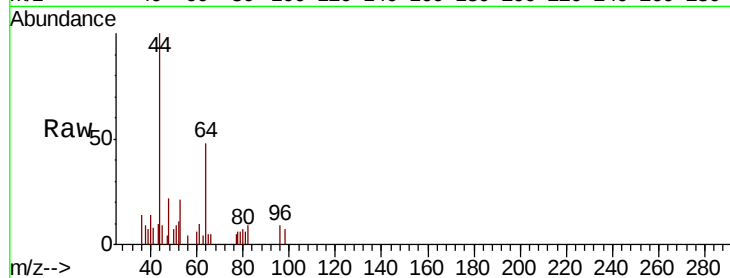
Tot Ion: 53 Resp: 536

Ion Ratio Lower Upper

53 100

52 113.4 65.2 97.8#

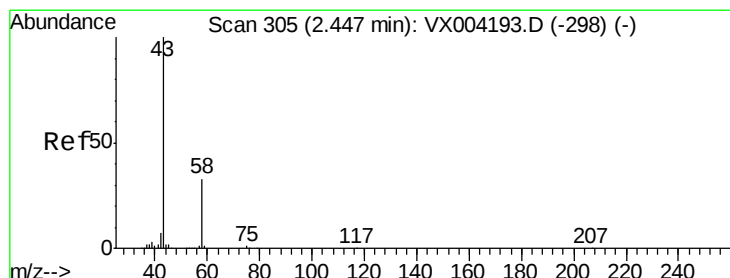
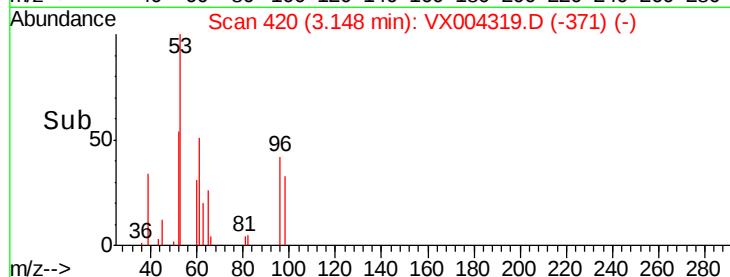
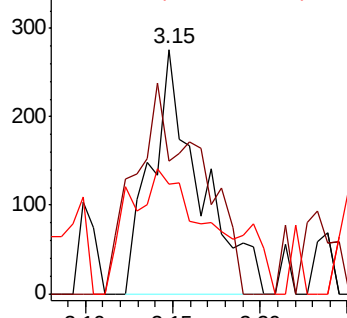
51 77.4 28.2 42.2#



Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0



#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX004319.D

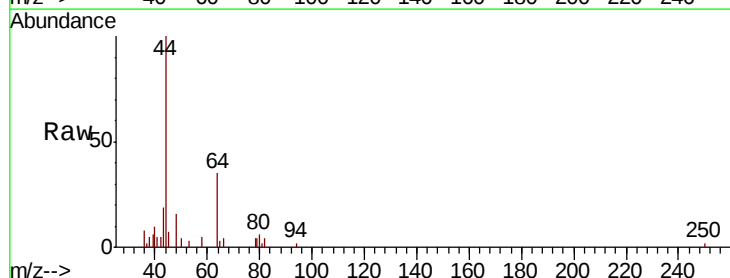
Acq: 30 Aug 2018 13:36

Tgt Ion: 43 Resp: 767

Ion Ratio Lower Upper

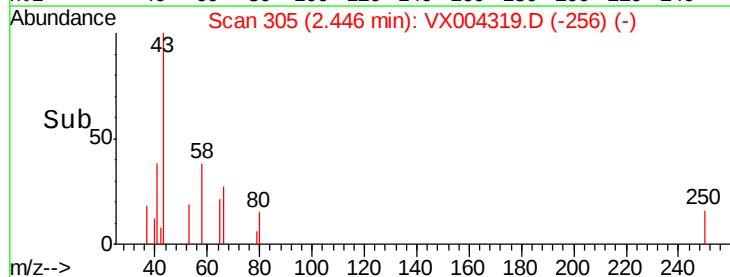
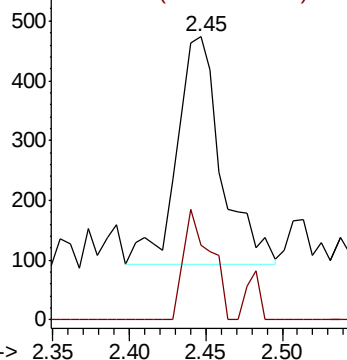
43 100

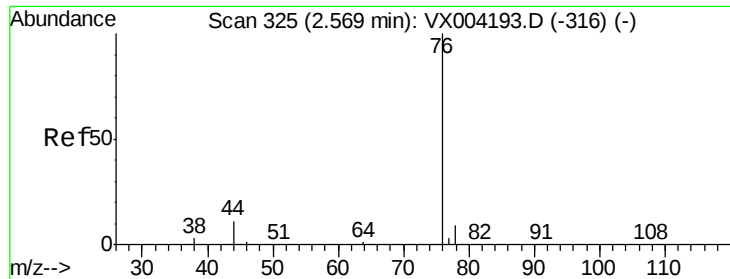
58 33.0 26.2 39.4



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#17

Carbon Disulfide

Concen: 1.01 ug/l

RT: 2.56 min Scan# 324

Delta R.T. -0.01 min

Lab File: VX004319.D

Acq: 30 Aug 2018 13:36

Instrument :

MSVOA\_X

ClientSampleId :

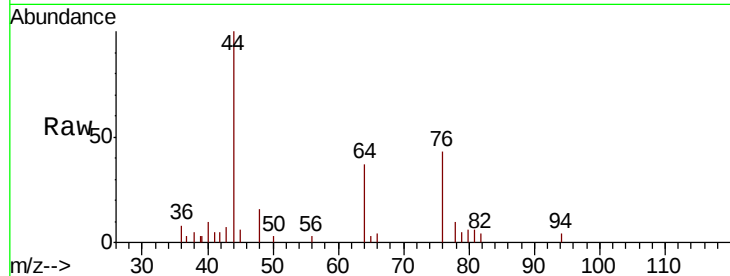
VX0830MBL01

Tot Ion: 76 Resp: 1616

Ion Ratio Lower Upper

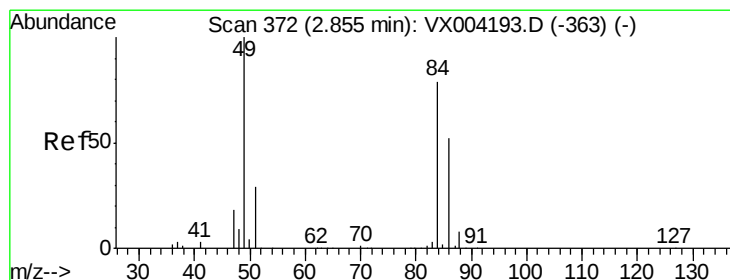
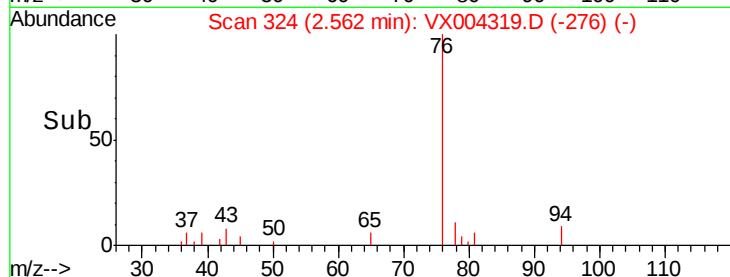
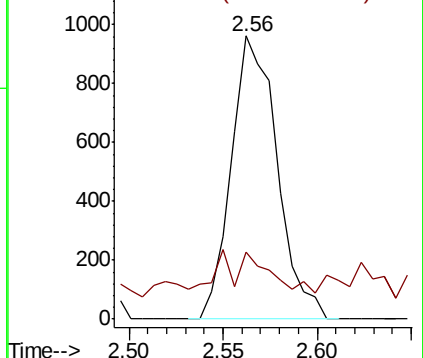
76 100

78 13.1 7.0 10.6#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#20

Methylene Chloride

Concen: 0.30 ug/l

RT: 2.85 min Scan# 371

Delta R.T. -0.01 min

Lab File: VX004319.D

Acq: 30 Aug 2018 13:36

Tgt Ion: 84 Resp: 993

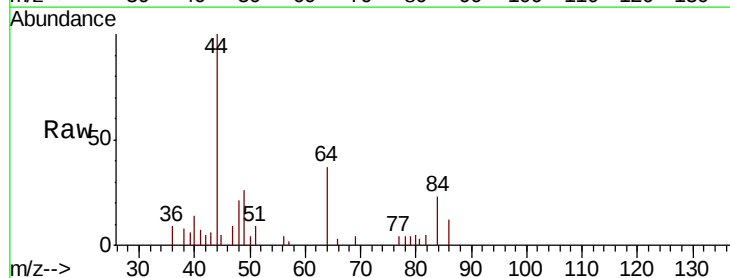
Ion Ratio Lower Upper

84 100

49 111.7 101.2 151.8

51 27.7 29.5 44.3#

86 53.0 52.3 78.5

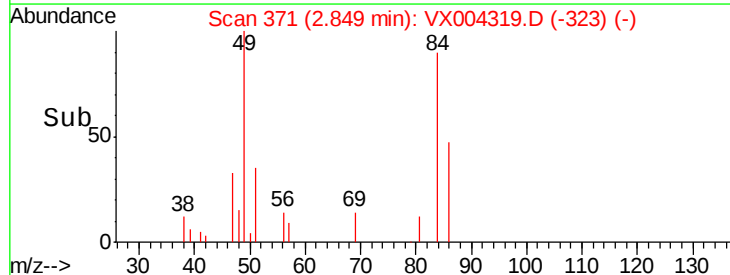
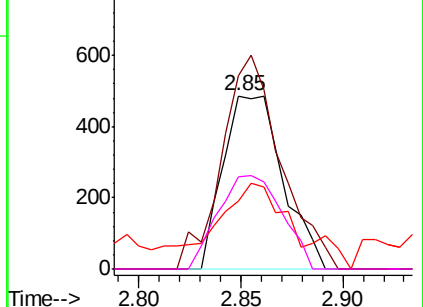


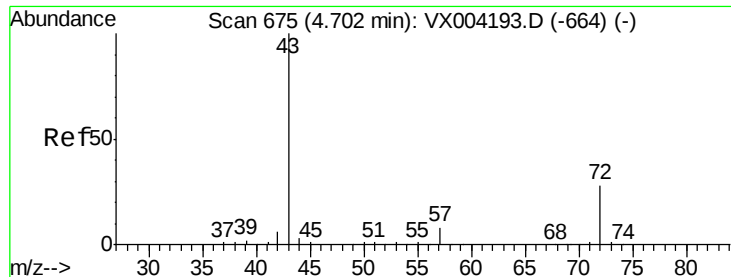
Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0





#25

2-Butanone

Concen: Below Cal

RT: 4.71 min Scan# 677

Delta R.T. 0.01 min

Lab File: VX004319.D

Acq: 30 Aug 2018 13:36

Instrument :

MSVOA\_X

ClientSampled :

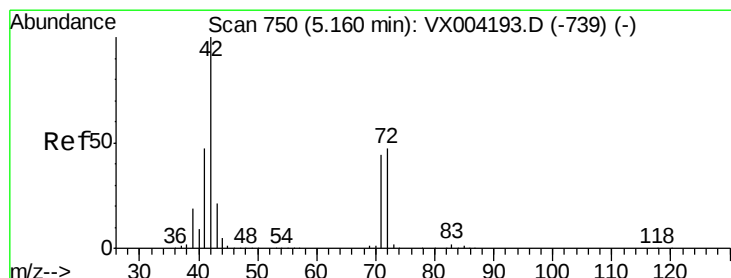
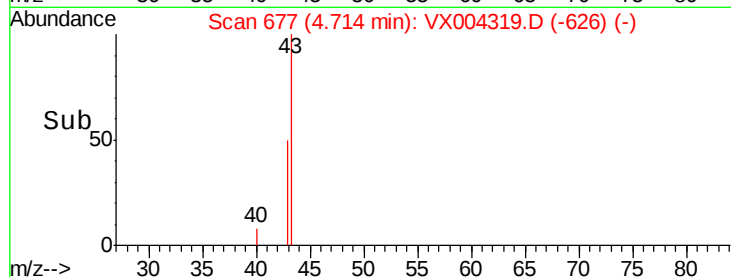
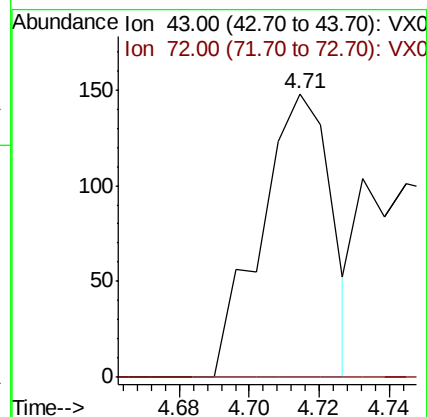
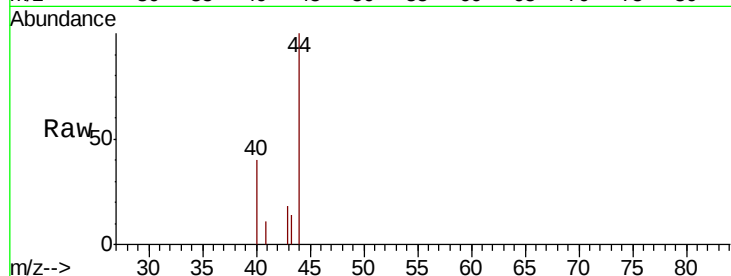
VX0830MBL01

Tot Ion: 43 Resp: 207

Ion Ratio Lower Upper

43 100

72 0.0 22.0 33.0#



#29

Tetrahydrofuran

Concen: 0.68 ug/l

RT: 5.17 min Scan# 751

Delta R.T. 0.01 min

Lab File: VX004319.D

Acq: 30 Aug 2018 13:36

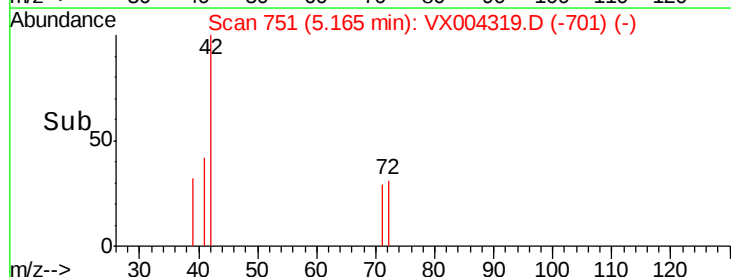
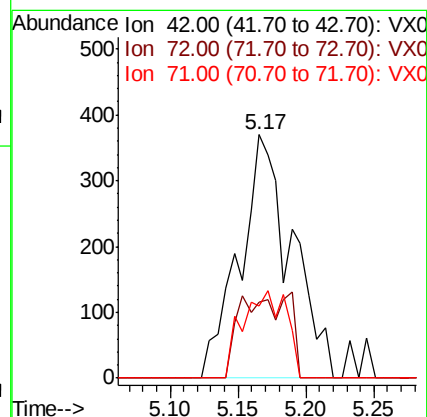
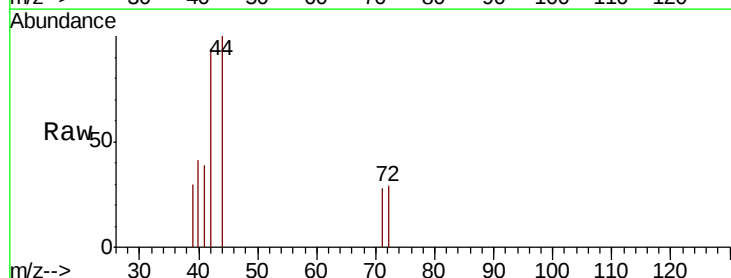
Tgt Ion: 42 Resp: 988

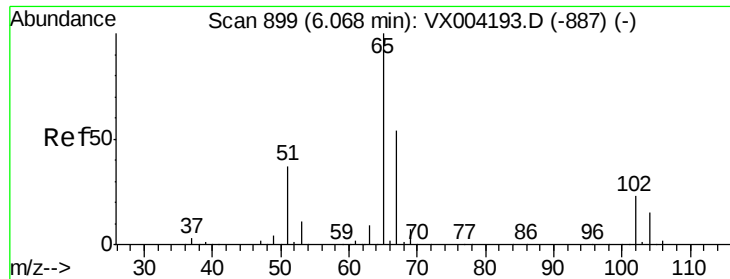
Ion Ratio Lower Upper

42 100

72 0.0 37.4 56.0#

71 30.3 34.5 51.7#





#33

1,2-Dichloroethane-d4

Concen: 54.77 ug/l

RT: 6.07 min Scan# 899

Delta R.T. -0.00 min

Lab File: VX004319.D

Acq: 30 Aug 2018 13:36

Instrument :

MSVOA\_X

ClientSampleId :

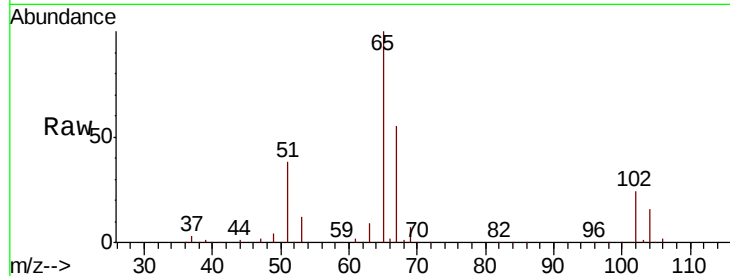
VX0830MBL01

Tot Ion: 65 Resp: 186315

Ion Ratio Lower Upper

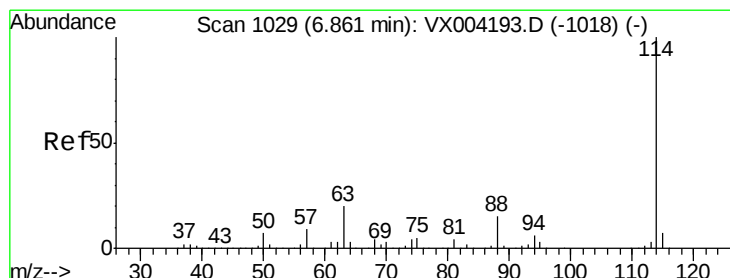
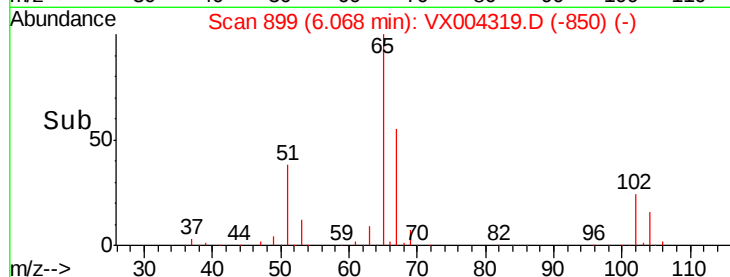
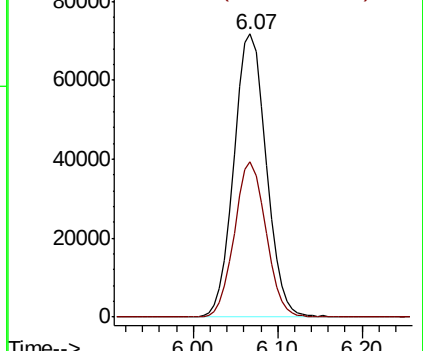
65 100

67 53.8 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.86 min Scan# 1029

Delta R.T. -0.00 min

Lab File: VX004319.D

Acq: 30 Aug 2018 13:36

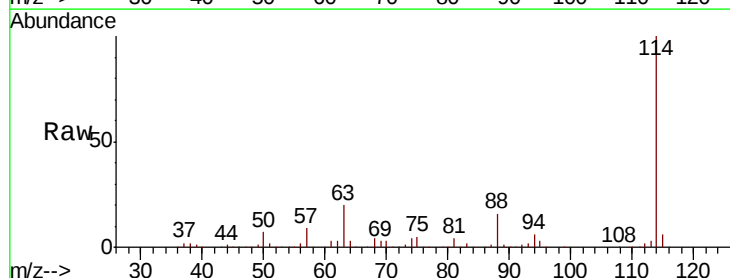
Tgt Ion: 114 Resp: 409489

Ion Ratio Lower Upper

114 100

63 19.7 0.0 39.0

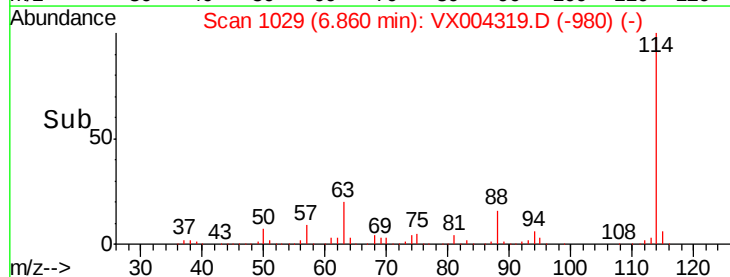
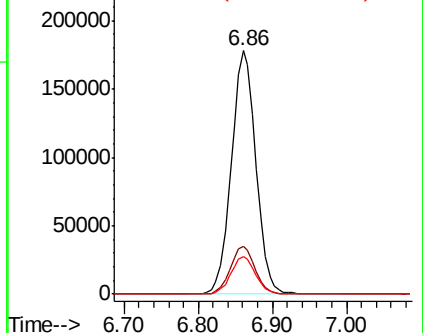
88 15.5 0.0 30.4

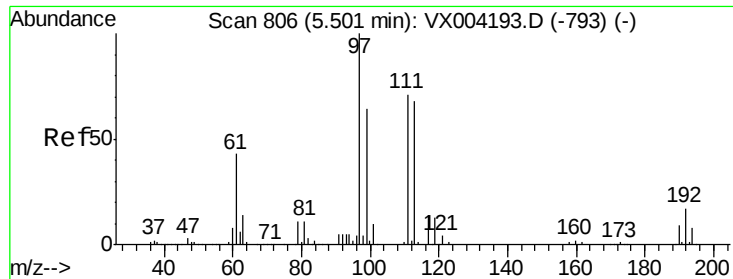


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

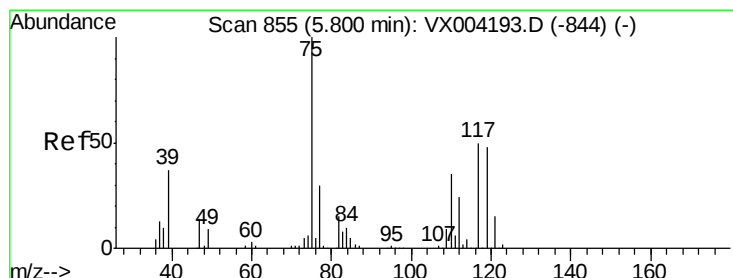
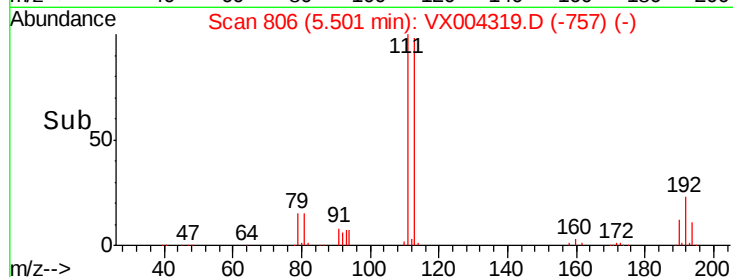
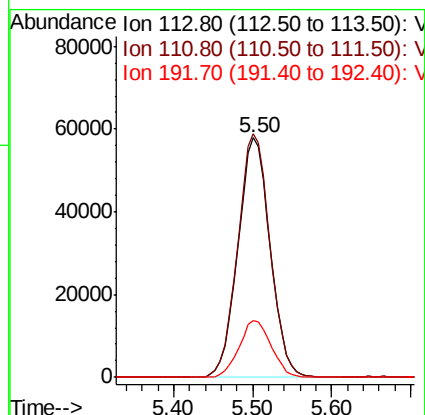
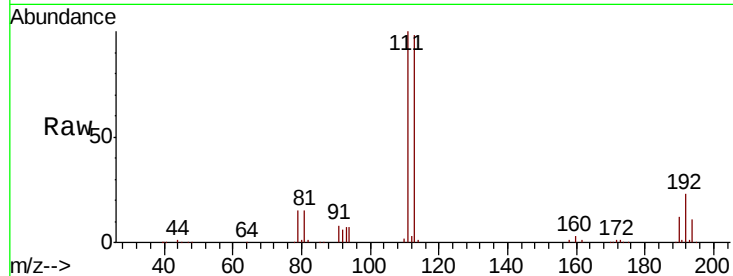




#35  
 Dibromofluoromethane  
 Concen: 53.84 ug/l  
 RT: 5.50 min Scan# 806  
 Delta R.T. -0.00 min  
 Lab File: VX004319.D  
 Acq: 30 Aug 2018 13:36

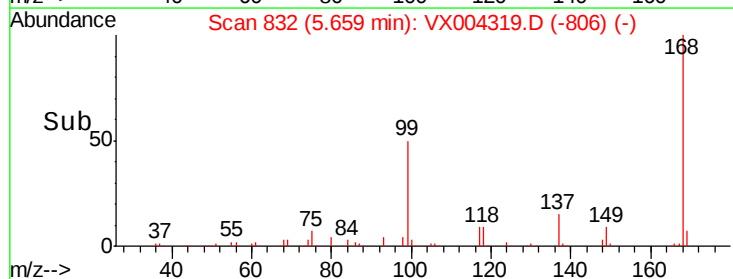
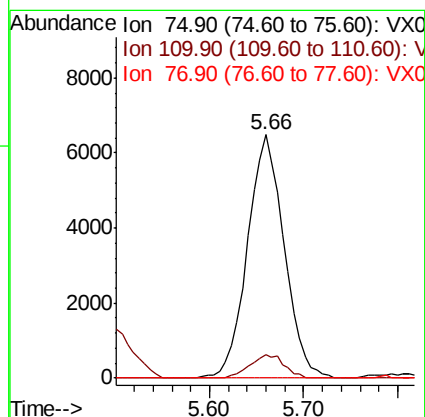
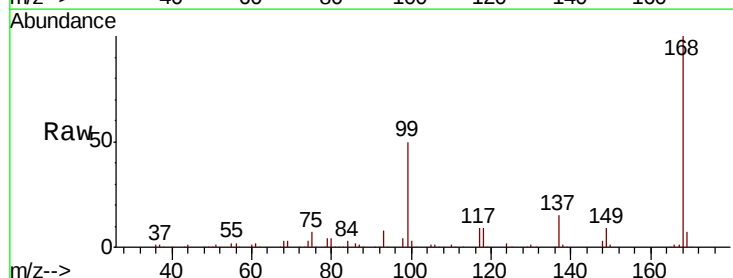
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0830MBL01

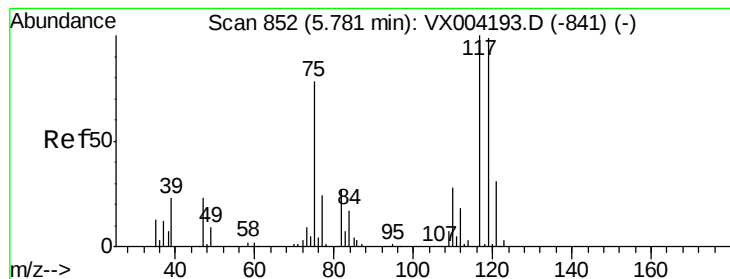
Tot Ion:113 Resp: 164019  
 Ion Ratio Lower Upper  
 113 100  
 111 102.0 82.4 123.6  
 192 23.6 19.4 29.2



#36  
 1,1-Dichloropropene  
 Concen: 3.82 ug/l  
 RT: 5.66 min Scan# 832  
 Delta R.T. -0.14 min  
 Lab File: VX004319.D  
 Acq: 30 Aug 2018 13:36

Tgt Ion: 75 Resp: 17602  
 Ion Ratio Lower Upper  
 75 100  
 110 8.9 18.0 54.0#  
 77 0.0 24.6 36.8#





#38

Carbon Tetrachloride

Concen: 5.25 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.12 min

Lab File: VX004319.D

Acq: 30 Aug 2018 13:36

Instrument :

MSVOA\_X

ClientSampleId :

VX0830MBL01

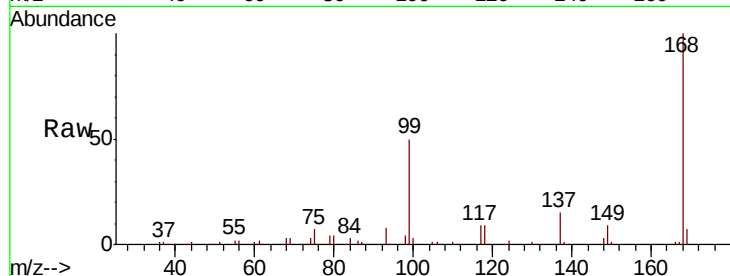
Tot Ion:117 Resp: 22721

Ion Ratio Lower Upper

117 100

119 5.2 78.8 118.2#

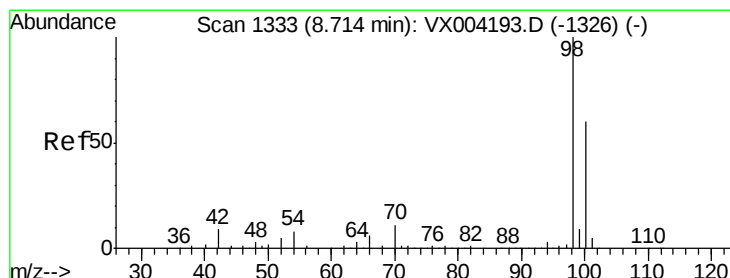
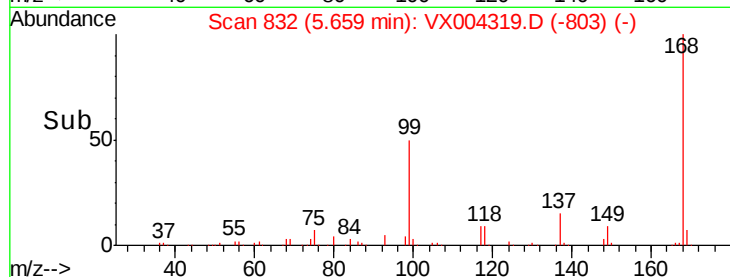
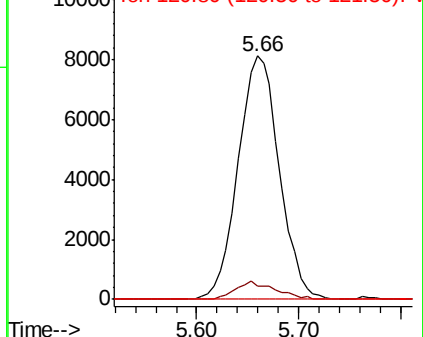
121 0.0 24.9 37.3#



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: 51.43 ug/l

RT: 8.71 min Scan# 1333

Delta R.T. -0.00 min

Lab File: VX004319.D

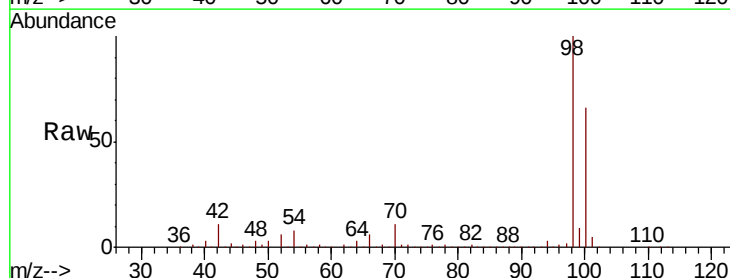
Acq: 30 Aug 2018 13:36

Tgt Ion: 98 Resp: 591365

Ion Ratio Lower Upper

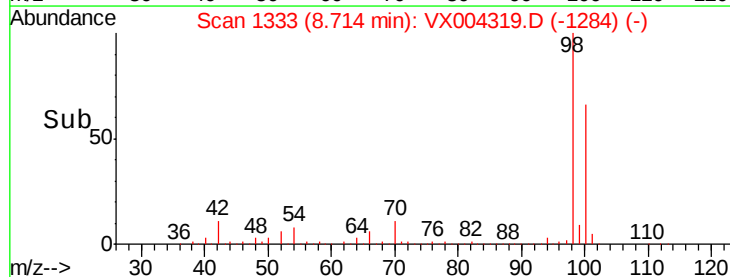
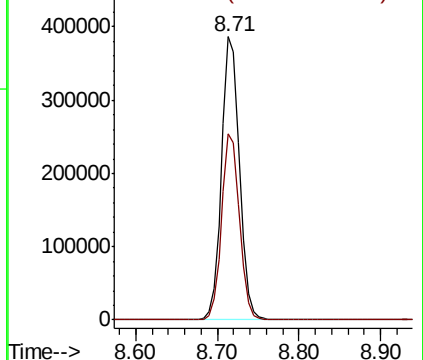
98 100

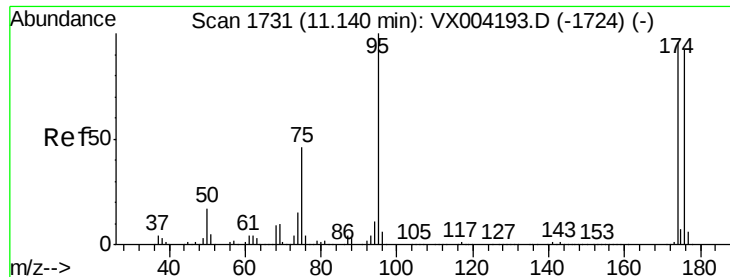
100 65.3 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

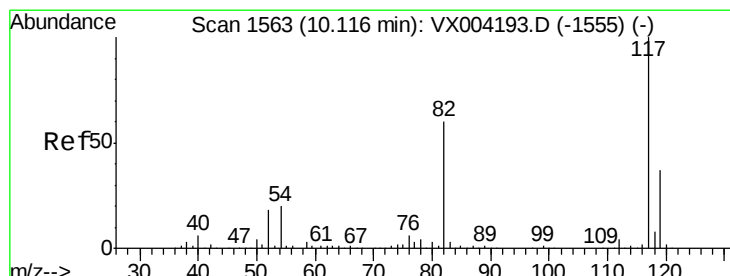
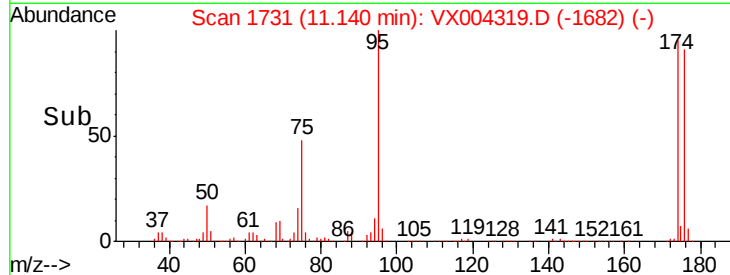
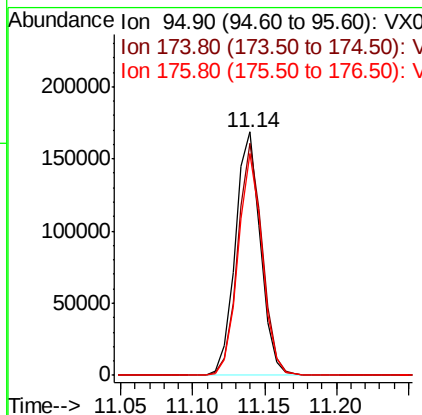
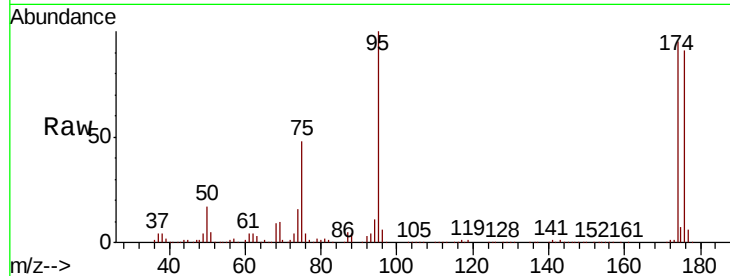




#62  
 4-Bromofluorobenzene  
 Concen: 47.98 ug/l  
 RT: 11.14 min Scan# 1731  
 Delta R.T. -0.00 min  
 Lab File: VX004319.D  
 Acq: 30 Aug 2018 13:36

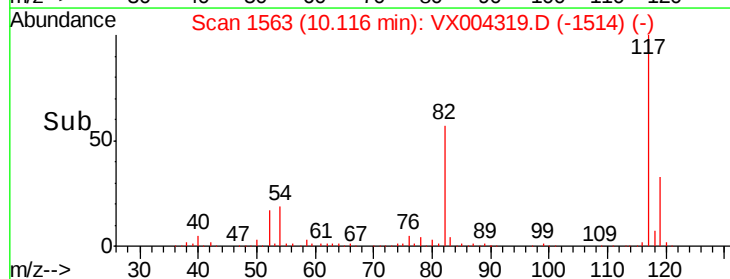
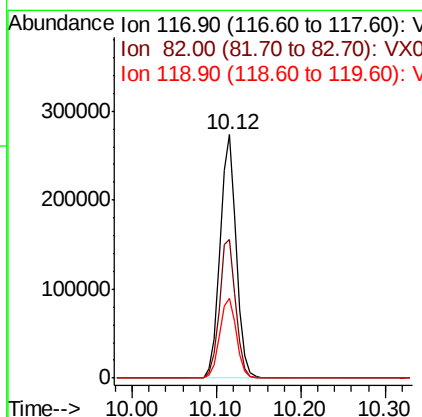
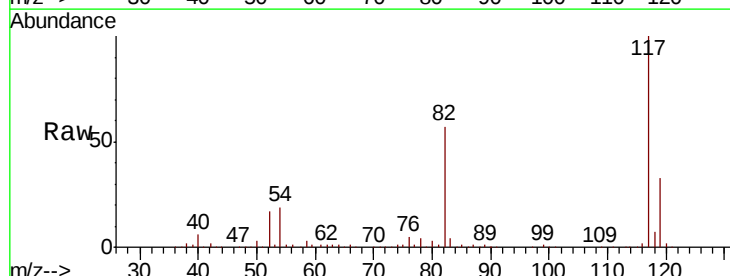
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0830MBL01

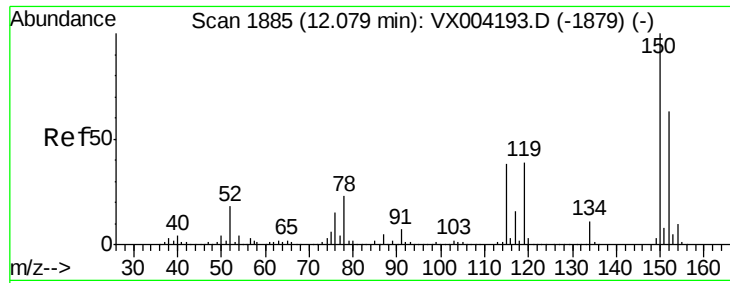
| Tot Ion   | 95    | Resp  | 205865 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 93.0  | 0.0   | 185.2  |
| 176       | 87.6  | 0.0   | 178.6  |



#63  
 Chlorobenzene-d5  
 Concen: 50.00 ug/l  
 RT: 10.12 min Scan# 1563  
 Delta R.T. -0.00 min  
 Lab File: VX004319.D  
 Acq: 30 Aug 2018 13:36

| Tgt Ion   | 117   | Resp  | 362952 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 56.8  | 47.8  | 71.6   |
| 119       | 33.0  | 29.3  | 43.9   |





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.00 min

Lab File: VX004319.D

Acq: 30 Aug 2018 13:36

Instrument :

MSVOA\_X

ClientSampleId :

VX0830MBL01

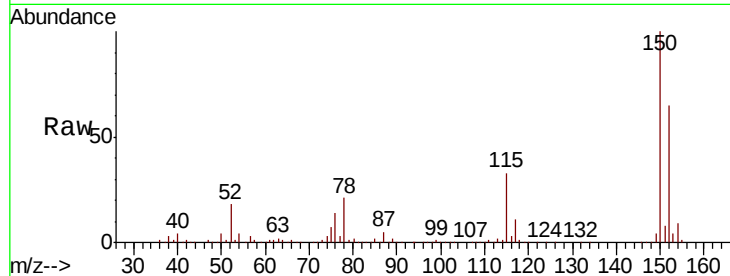
Tot Ion:152 Resp: 213497

Ion Ratio Lower Upper

152 100

115 50.5 39.0 117.0

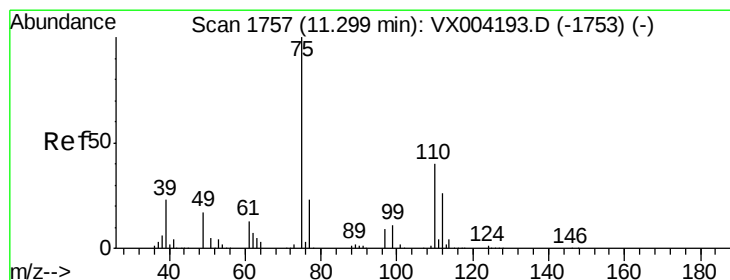
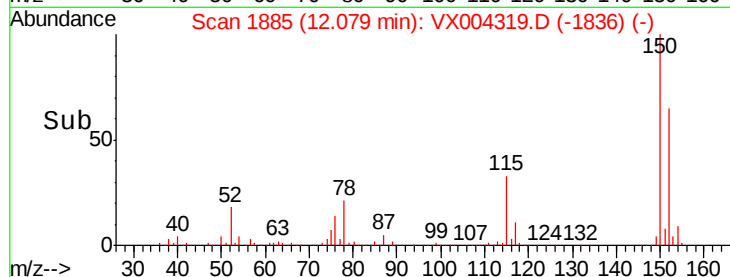
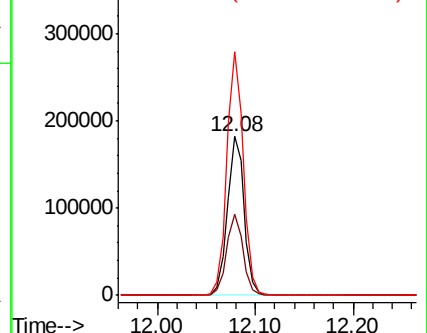
150 151.7 0.0 351.0



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: 22.62 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX004319.D

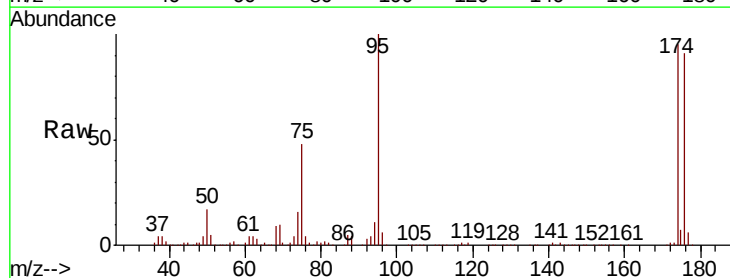
Acq: 30 Aug 2018 13:36

Tgt Ion: 75 Resp: 98230

Ion Ratio Lower Upper

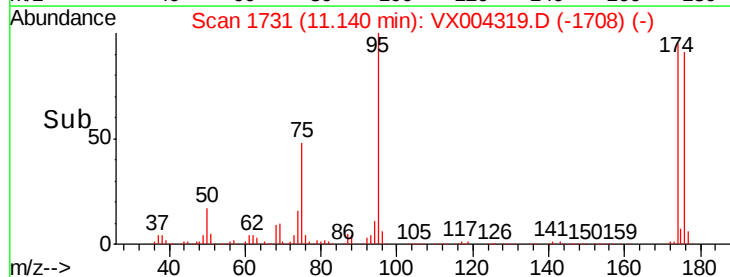
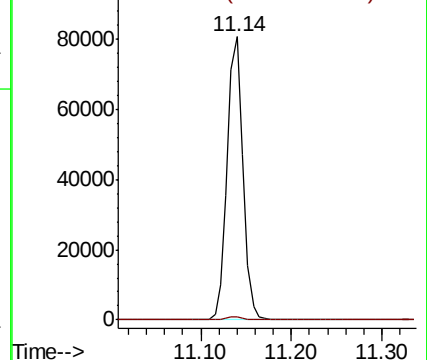
75 100

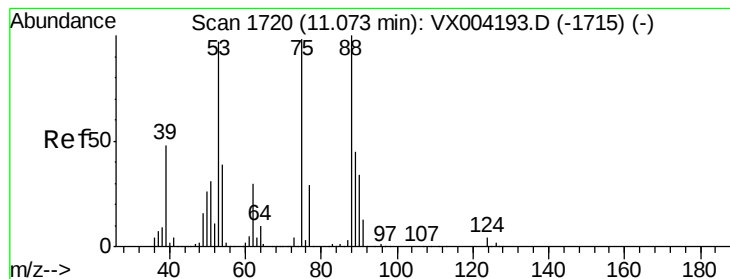
77 1.4 20.2 60.6#



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: 73.40 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.07 min

Lab File: VX004319.D

Acq: 30 Aug 2018 13:36

Instrument :

MSVOA\_X

ClientSampleId :

VX0830MBL01

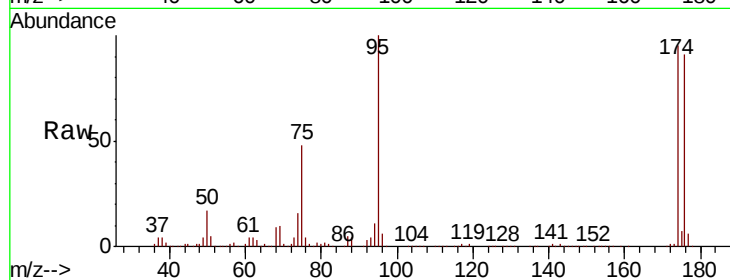
Tot Ion: 75 Resp: 98230

Ion Ratio Lower Upper

75 100

53 0.2 80.1 120.1#

89 0.0 37.2 55.8#



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

