

Data Path : W:\HPCHEM1\MSVOA\_X\DATA\VX040218\  
 Data File : VX000642.D  
 Acq On : 02 Apr 2018 15:50  
 Operator : JC/MD  
 Sample : J1757-08 5X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 EO-03-033018-A

Quant Time: Apr 03 02:41:15 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X032018W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 21 04:52:42 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 120793   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 193117   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 198033   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 106005   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| System Monitoring Compounds |        |     |          |       |        |      |
| 33) 1,2-Dichloroethane-d4   | 6.07   | 65  | 77699    | 49.28 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.56% |      |
| 35) Dibromofluoromethane    | 5.51   | 113 | 60759    | 49.93 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.86% |      |
| 50) Toluene-d8              | 8.72   | 98  | 247826   | 49.18 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 98.36% |      |
| 62) 4-Bromofluorobenzene    | 11.15  | 95  | 89497    | 43.01 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 86.02% |      |

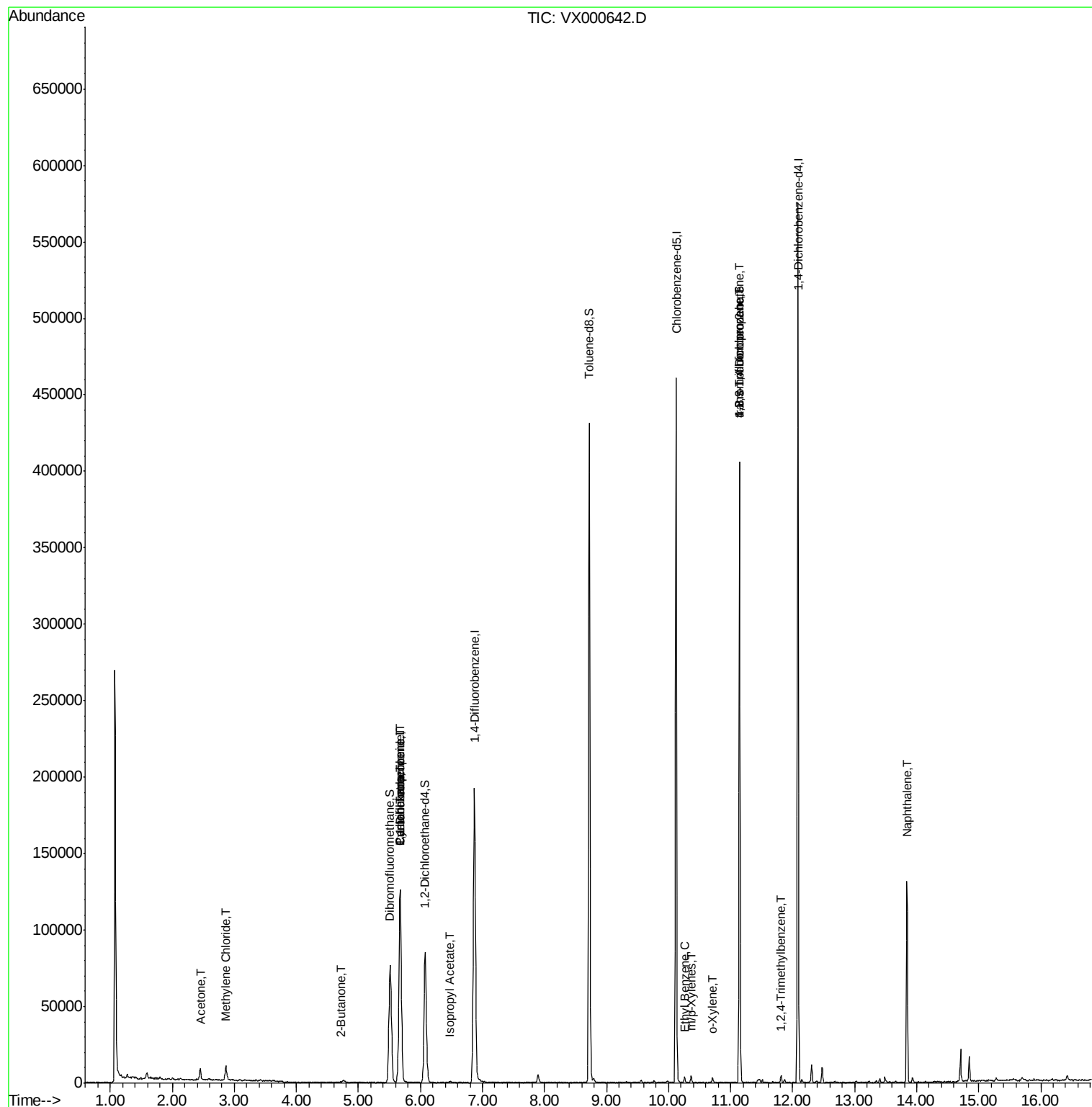
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 6) Chloroethane                | 1.73  | 64   | 122      | Below Cal | #     | 44     |
| 14) Allyl chloride             | 2.72  | 41   | 102      | Below Cal | #     | 69     |
| 16) Acetone                    | 2.45  | 43   | 8178     | 6.23      | ug/l  | 87     |
| 20) Methylene Chloride         | 2.87  | 84   | 3966     | 2.62      | ug/l  | 94     |
| 25) 2-Butanone                 | 4.71  | 43   | 404      | 0.27      | ug/l  | 86     |
| 31) Cyclohexane                | 5.68  | 56   | 2990     | 1.50      | ug/l  | 18     |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 9387     | 5.19      | ug/l  | 52     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 11383    | 6.00      | ug/l  | 15     |
| 43) Isopropyl Acetate          | 6.47  | 43   | 989      | 0.27      | ug/l  | 62     |
| 67) Ethyl Benzene              | 10.26 | 91   | 2396     | 0.32      | ug/l  | 81     |
| 68) m/p-Xylenes                | 10.36 | 106  | 1079     | 0.37      | ug/l  | 97     |
| 69) o-Xylene                   | 10.70 | 106  | 704      | 0.25      | ug/l  | 75     |
| 74) N-amyl acetate             | 6.47  | 43   | 989      | Below Cal | #     | 59     |
| 76) 1,2,3-Trichloropropane     | 11.15 | 75   | 52042    | 22.84     | ug/l  | 35     |
| 81) trans-1,4-Dichloro-2-buten | 11.15 | 75   | 52042    | 73.96     | ug/l  | 9      |
| 84) 1,2,4-Trimethylbenzene     | 11.82 | 105  | 2234     | 0.36      | ug/l  | 98     |
| 95) Naphthalene                | 13.84 | 128  | 77292    | 8.92      | ug/l  | 99     |

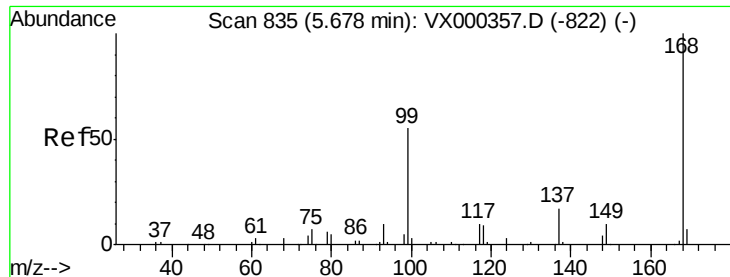
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : W:\HPCHEM1\MSVOA\_X\DATA\VX040218\  
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Instrument :  
MSVOA\_X  
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EO-03-033018-A

Quant Time: Apr 03 02:41:15 2018  
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X032018W.M  
Quant Title : SW846 8260  
QLast Update : Wed Mar 21 04:52:42 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.01 min

Lab File: VX000642.D

Acq: 02 Apr 2018 15:50

Instrument :

MSVOA\_X

ClientSampleId :

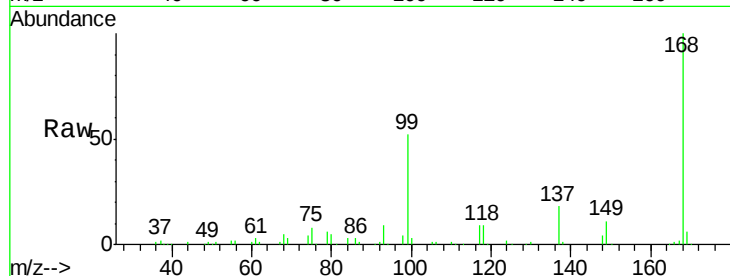
EO-03-033018-A

Tgt Ion: 168 Resp: 120793

Ion Ratio Lower Upper

168 100

99 51.5 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

40000

30000

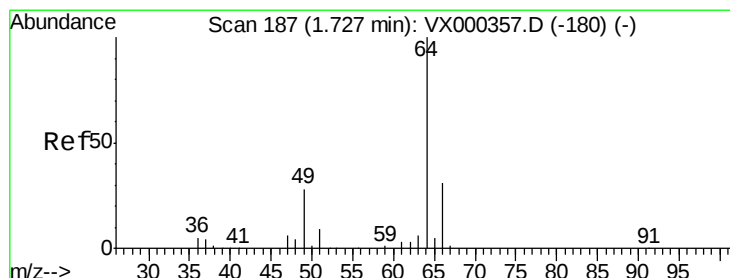
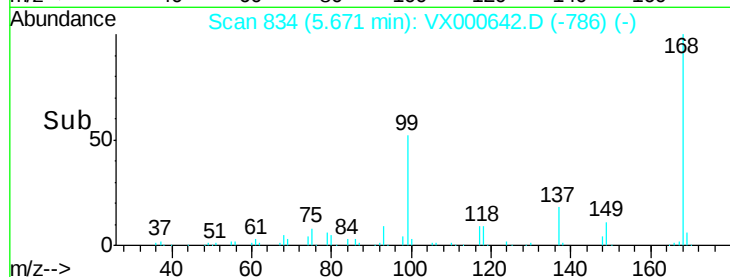
20000

10000

0

Time-->

5.60 5.70 5.80



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX000642.D

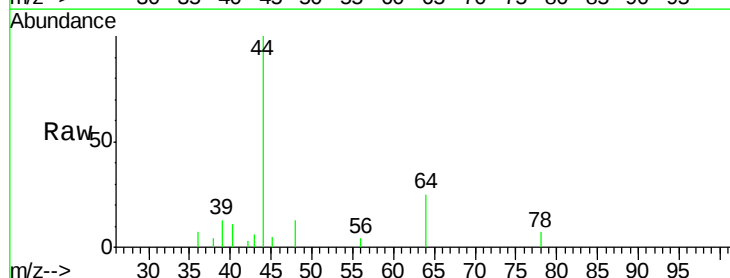
Acq: 02 Apr 2018 15:50

Tgt Ion: 64 Resp: 122

Ion Ratio Lower Upper

64 100

66 0.0 24.8 37.2#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.73

500

400

300

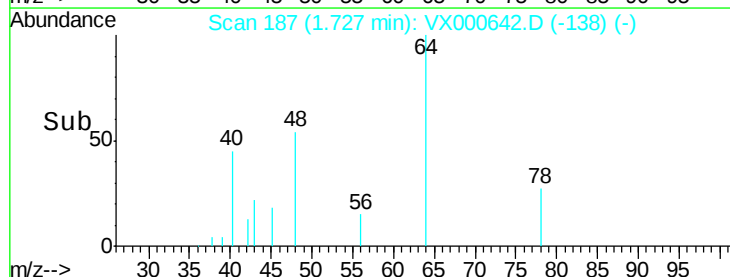
200

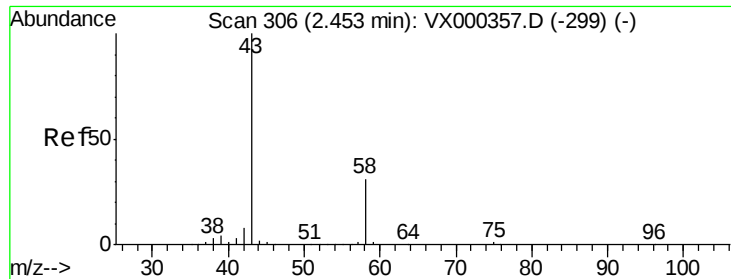
100

0

Time-->

1.72 1.73 1.74





#16

Acetone

Concen: 6.23 ug/l

RT: 2.45 min Scan# 306

Delta R.T. -0.00 min

Lab File: VX000642.D

Acq: 02 Apr 2018 15:50

Instrument :

MSVOA\_X

ClientSampleId :

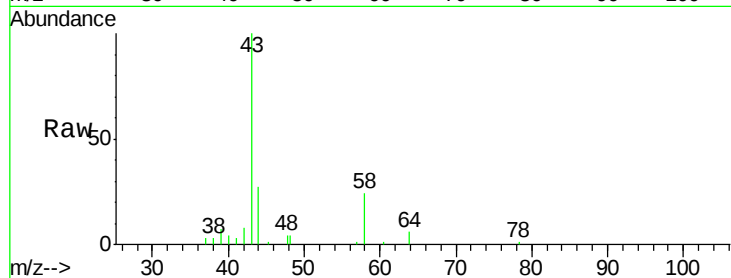
EO-03-033018-A

Tgt Ion: 43 Resp: 8178

Ion Ratio Lower Upper

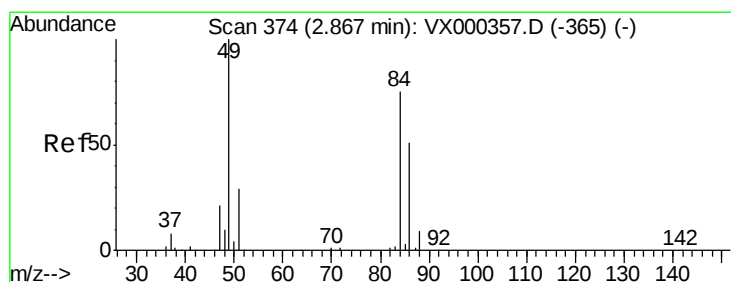
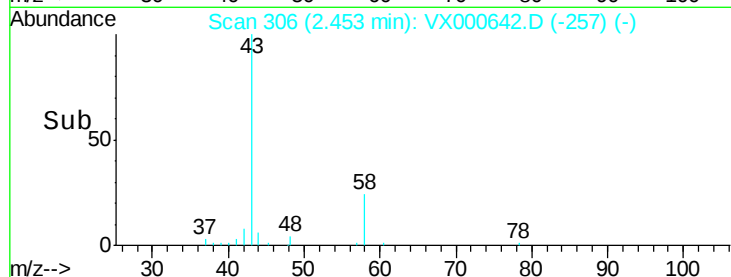
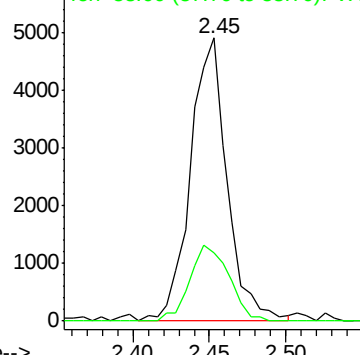
43 100

58 24.0 24.7 37.1#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#20

Methylene Chloride

Concen: 2.62 ug/l

RT: 2.87 min Scan# 374

Delta R.T. -0.00 min

Lab File: VX000642.D

Acq: 02 Apr 2018 15:50

Tgt Ion: 84 Resp: 3966

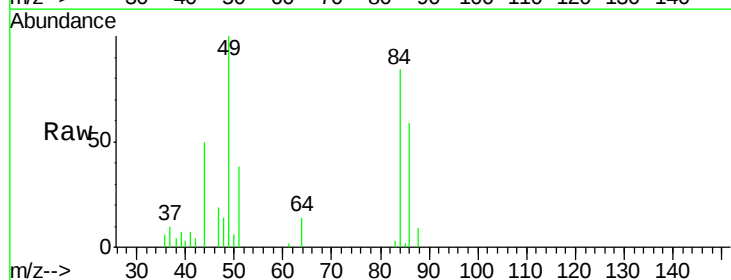
Ion Ratio Lower Upper

84 100

49 119.1 100.6 151.0

51 45.5 31.6 47.4

86 70.2 52.6 78.8

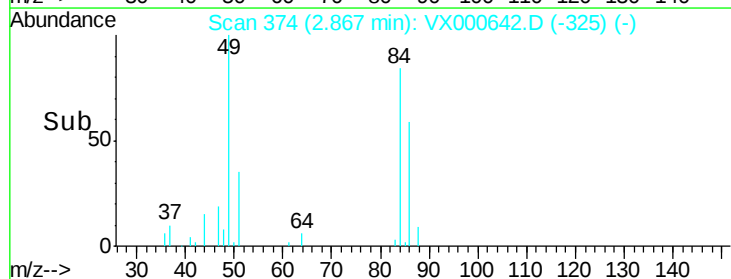
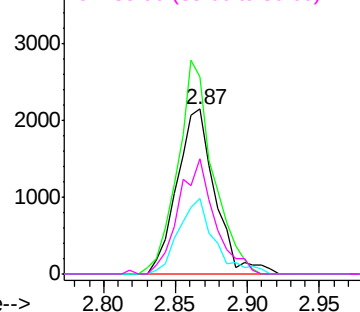


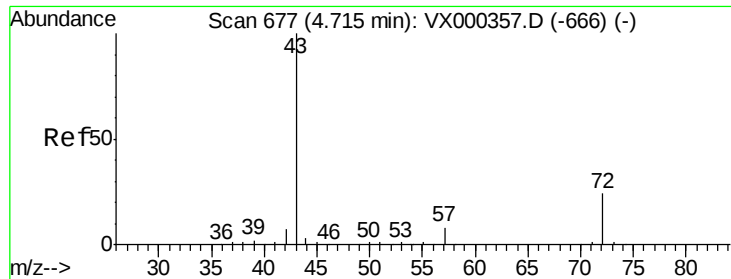
Abundance Ion 83.90 (83.60 to 84.60): VX0

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: 0.27 ug/l

RT: 4.71 min Scan# 677

Delta R.T. -0.00 min

Lab File: VX000642.D

Acq: 02 Apr 2018 15:50

Instrument :

MSVOA\_X

ClientSampleId :

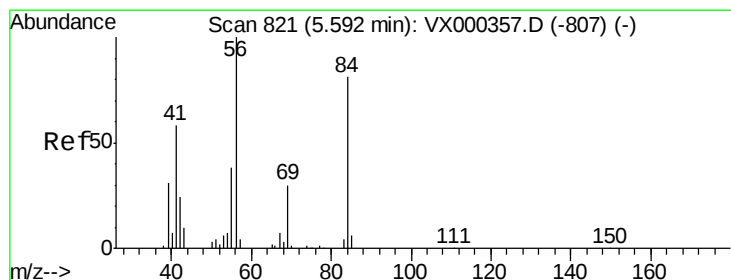
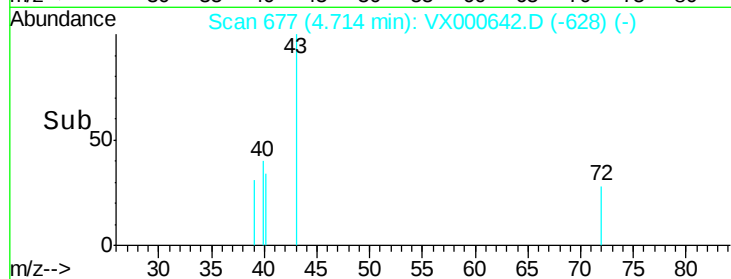
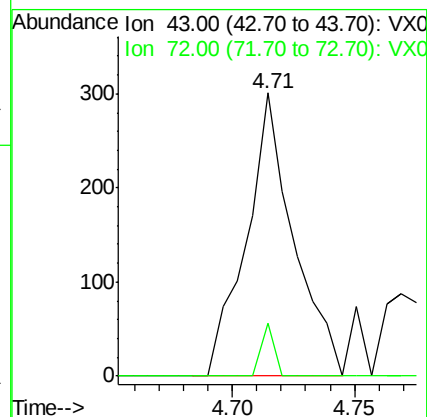
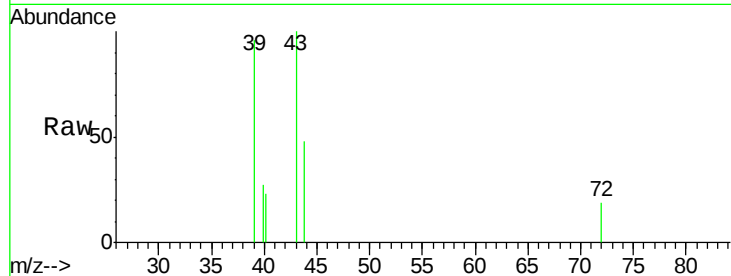
EO-03-033018-A

Tgt Ion: 43 Resp: 404

Ion Ratio Lower Upper

43 100

72 18.9 21.0 31.6#



#31

Cyclohexane

Concen: 1.50 ug/l

RT: 5.68 min Scan# 835

Delta R.T. 0.09 min

Lab File: VX000642.D

Acq: 02 Apr 2018 15:50

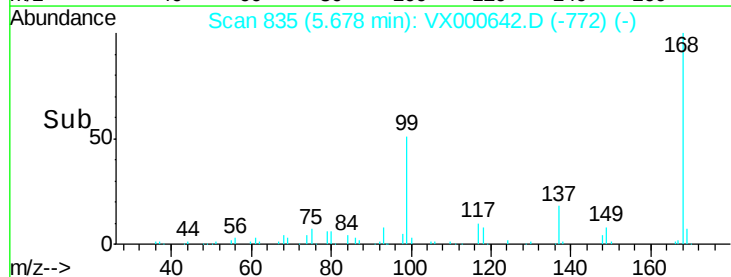
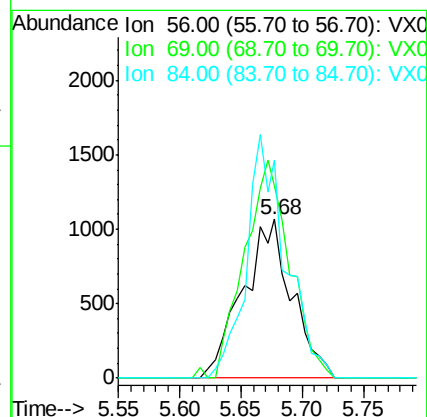
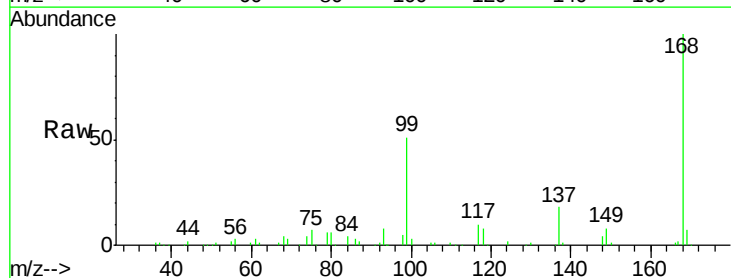
Tgt Ion: 56 Resp: 2990

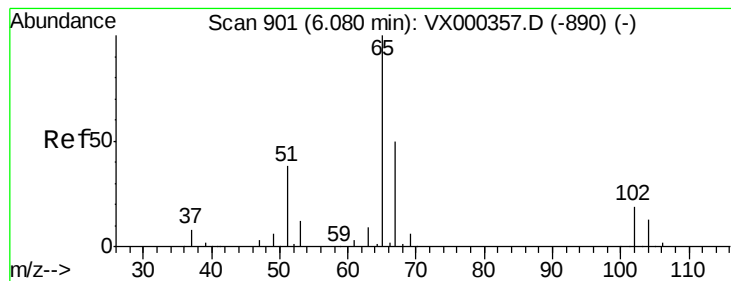
Ion Ratio Lower Upper

56 100

69 120.9 23.4 35.0#

84 137.3 71.0 106.4#





#33

1,2-Dichloroethane-d4

Concen: 49.28 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.01 min

Lab File: VX000642.D

Acq: 02 Apr 2018 15:50

Instrument :

MSVOA\_X

ClientSampleId :

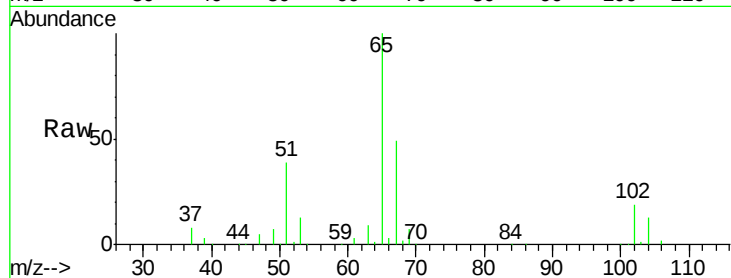
EO-03-033018-A

Tgt Ion: 65 Resp: 77699

Ion Ratio Lower Upper

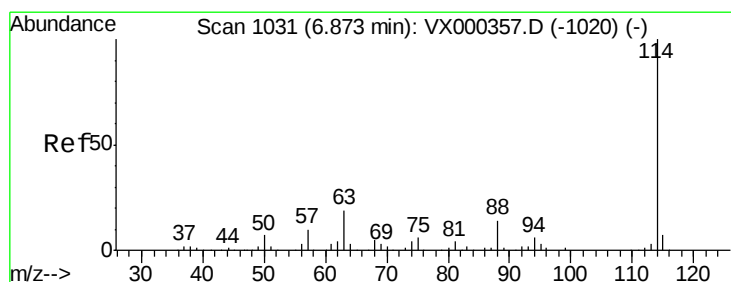
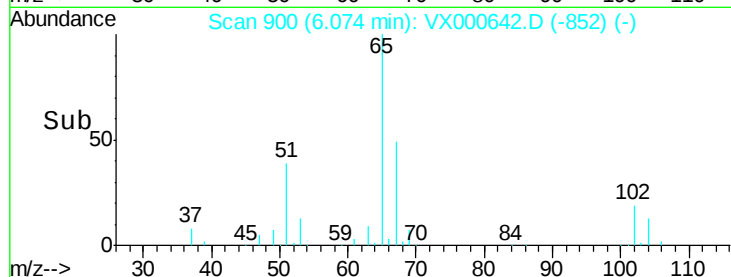
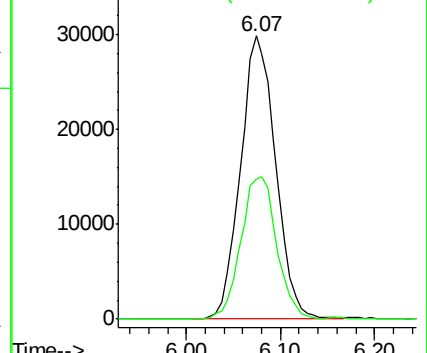
65 100

67 51.2 0.0 103.2



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: 6.87 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VX000642.D

Acq: 02 Apr 2018 15:50

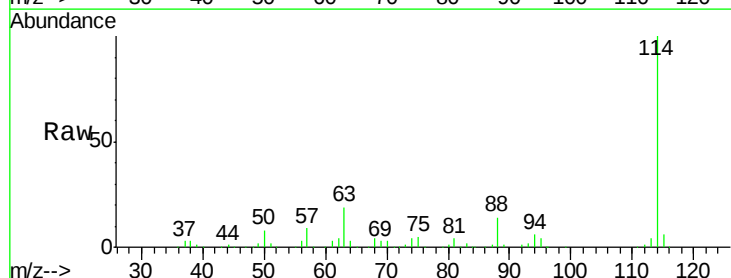
Tgt Ion: 114 Resp: 193117

Ion Ratio Lower Upper

114 100

63 18.9 0.0 38.4

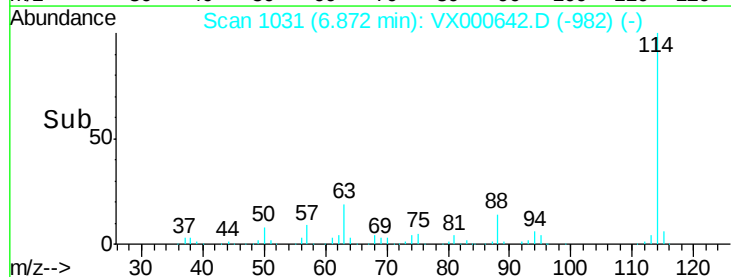
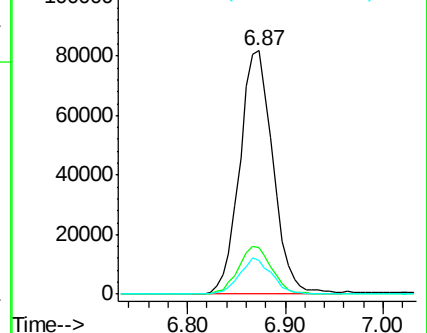
88 13.7 0.0 27.0

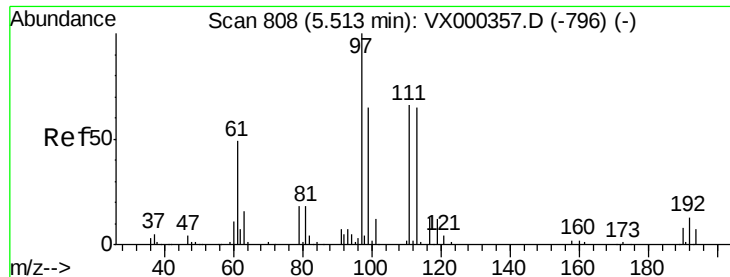


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.93 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX000642.D

Acq: 02 Apr 2018 15:50

Instrument :

MSVOA\_X

ClientSampleId :

EO-03-033018-A

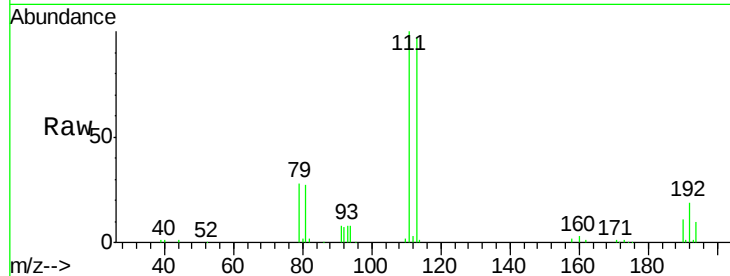
Tgt Ion:113 Resp: 60759

Ion Ratio Lower Upper

113 100

111 102.4 82.4 123.6

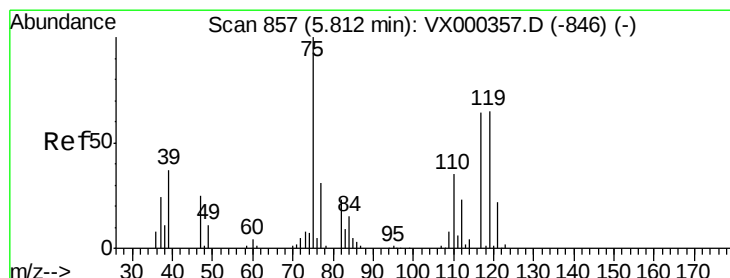
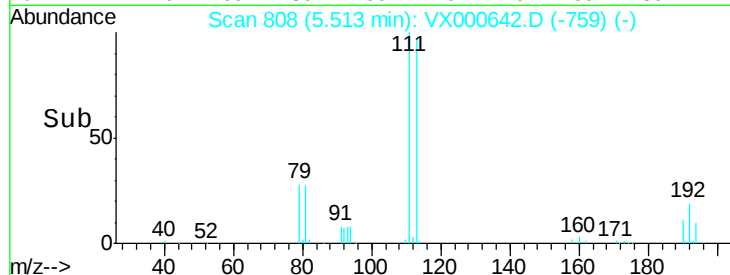
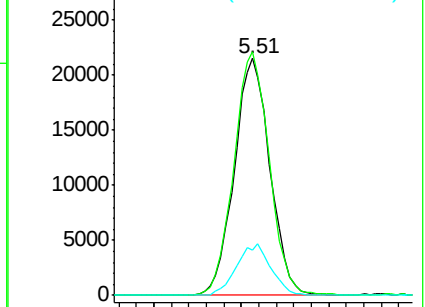
192 20.9 15.8 23.6



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 5.19 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.15 min

Lab File: VX000642.D

Acq: 02 Apr 2018 15:50

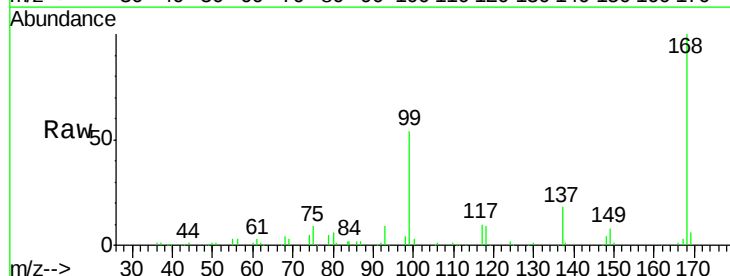
Tgt Ion: 75 Resp: 9387

Ion Ratio Lower Upper

75 100

110 11.7 17.9 53.7#

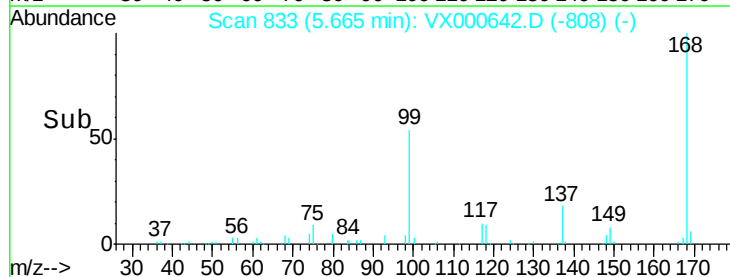
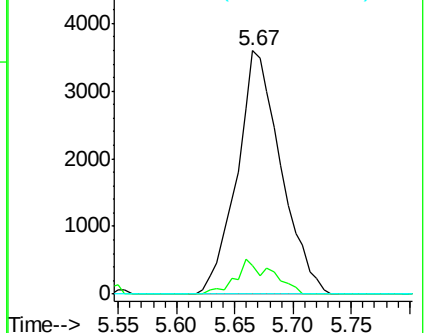
77 0.0 24.0 36.0#

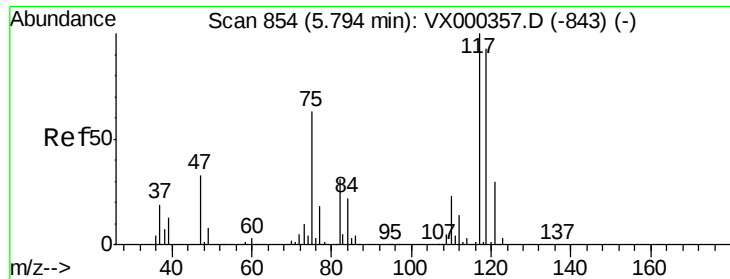


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

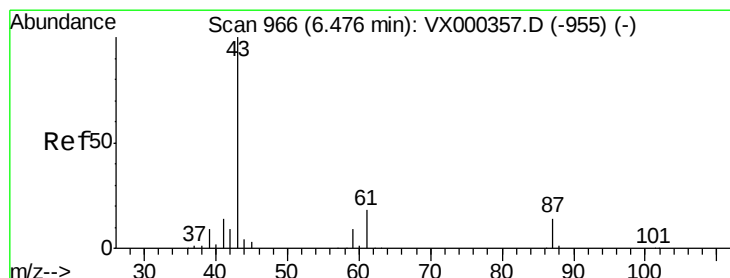
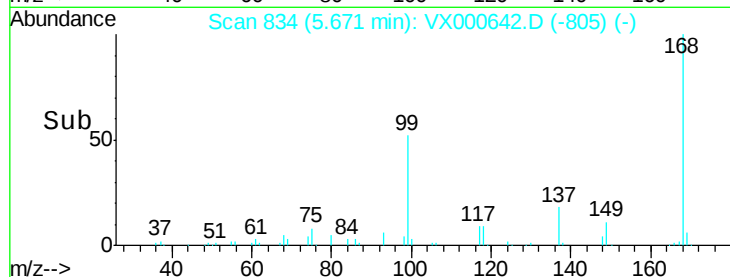
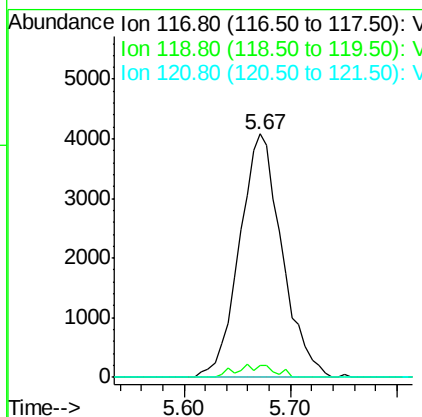
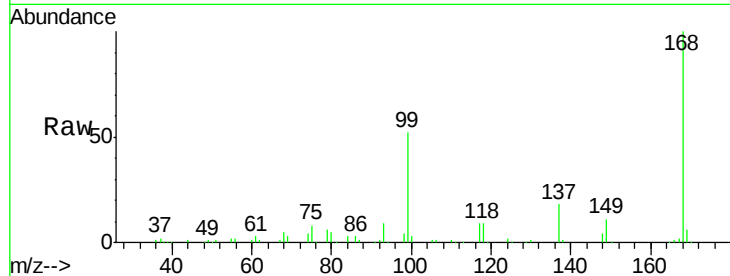




#38  
Carbon Tetrachloride  
Concen: 6.00 ug/l  
RT: 5.67 min Scan# 834  
Delta R.T. -0.12 min  
Lab File: VX000642.D  
Acq: 02 Apr 2018 15:50

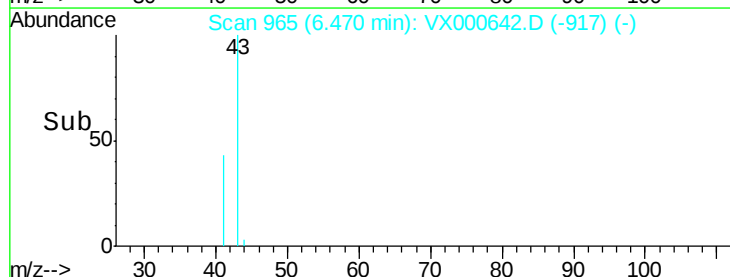
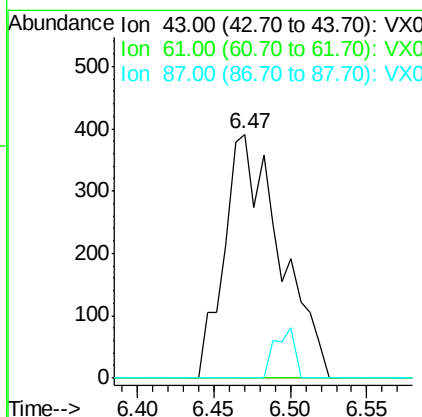
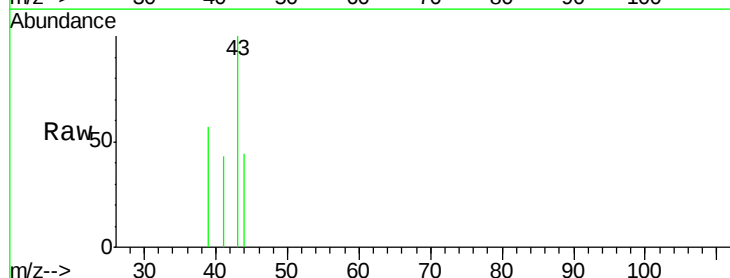
Instrument :  
MSVOA\_X  
ClientSampleId :  
EO-03-033018-A

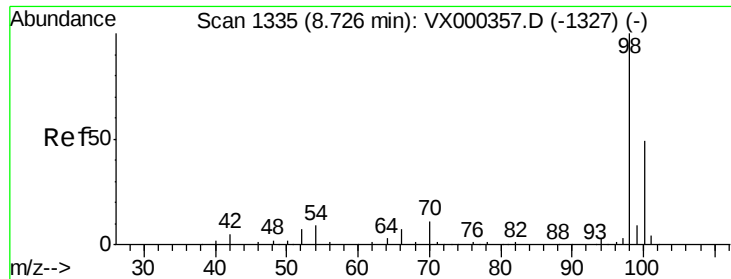
Tgt Ion: 117 Resp: 11383  
Ion Ratio Lower Upper  
117 100  
119 4.7 77.4 116.2#  
121 0.0 24.8 37.2#



#43  
Isopropyl Acetate  
Concen: 0.27 ug/l  
RT: 6.47 min Scan# 965  
Delta R.T. -0.01 min  
Lab File: VX000642.D  
Acq: 02 Apr 2018 15:50

Tgt Ion: 43 Resp: 989  
Ion Ratio Lower Upper  
43 100  
61 0.0 14.4 21.6#  
87 0.0 11.0 16.4#





#50

Toluene-d8

Concen: 49.18 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. -0.01 min

Lab File: VX000642.D

Acq: 02 Apr 2018 15:50

Instrument :

MSVOA\_X

ClientSampleId :

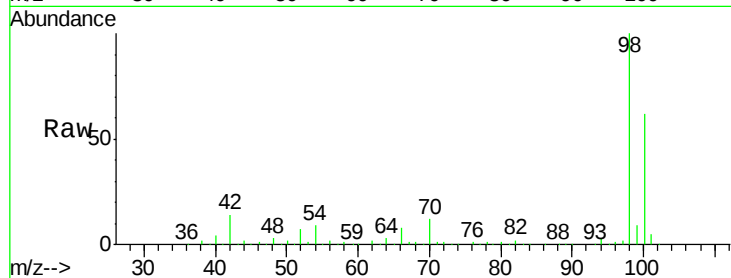
EO-03-033018-A

Tgt Ion: 98 Resp: 247826

Ion Ratio Lower Upper

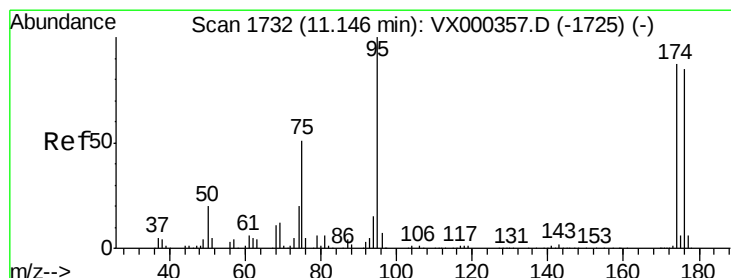
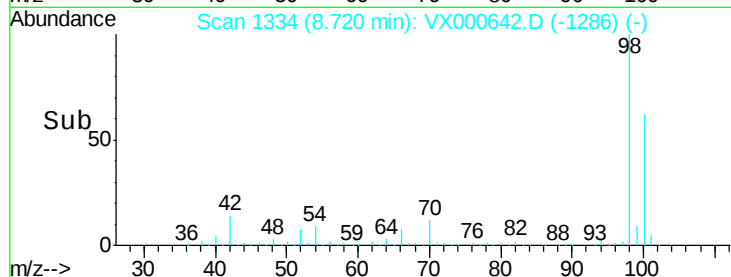
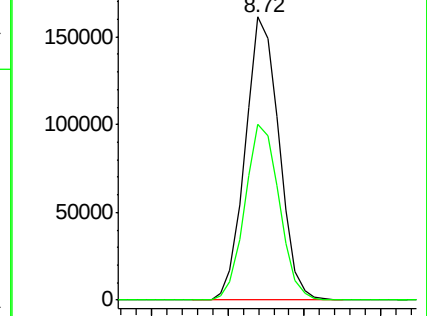
98 100

100 63.3 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 43.01 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VX000642.D

Acq: 02 Apr 2018 15:50

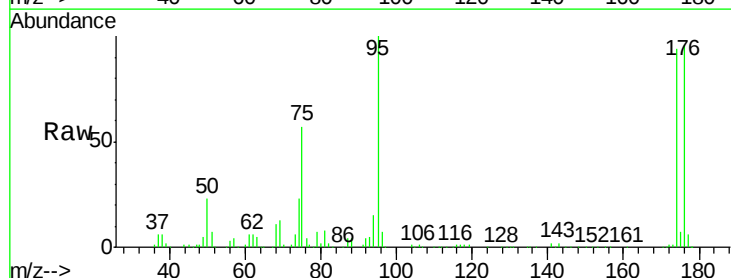
Tgt Ion: 95 Resp: 89497

Ion Ratio Lower Upper

95 100

174 90.3 0.0 173.6

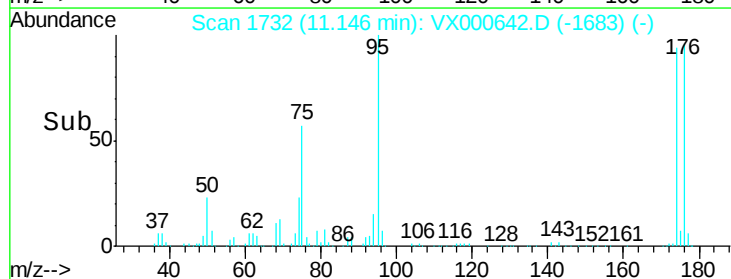
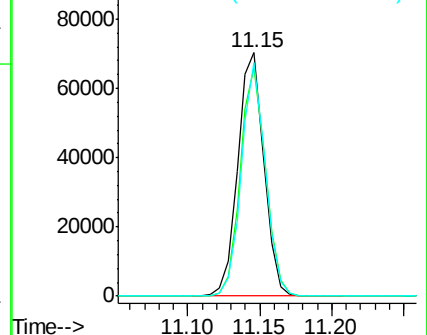
176 87.9 0.0 164.6

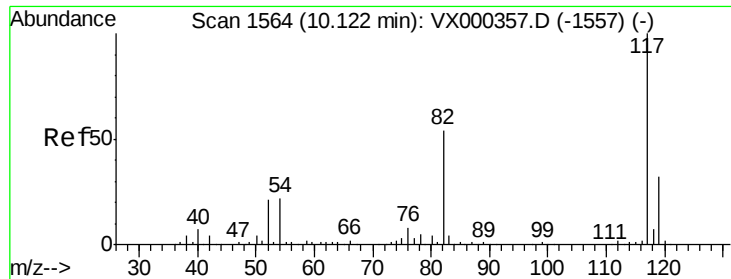


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

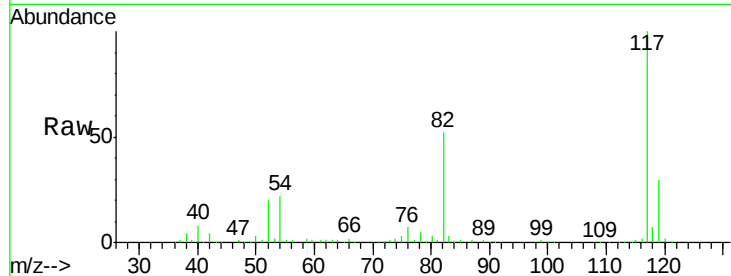




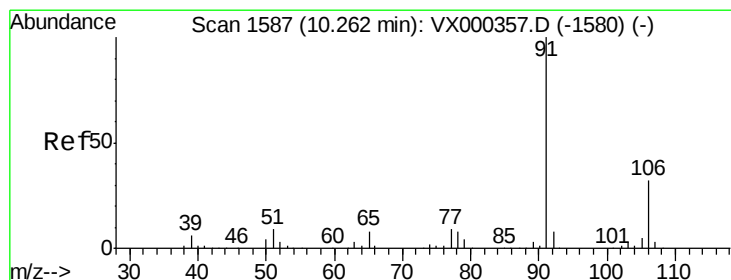
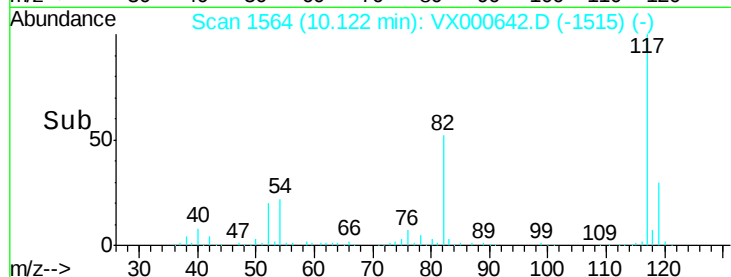
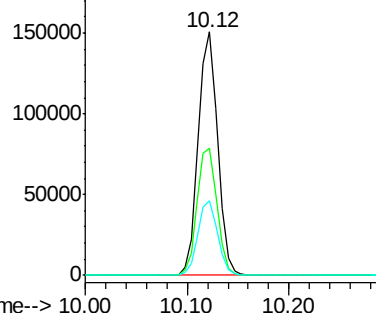
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1564  
Delta R.T. -0.00 min  
Lab File: VX000642.D  
Acq: 02 Apr 2018 15:50

Instrument :  
MSVOA\_X  
ClientSampleId :  
EO-03-033018-A

Tgt Ion: 117 Resp: 198033  
Ion Ratio Lower Upper  
117 100  
82 52.4 43.8 65.8  
119 30.4 24.9 37.3

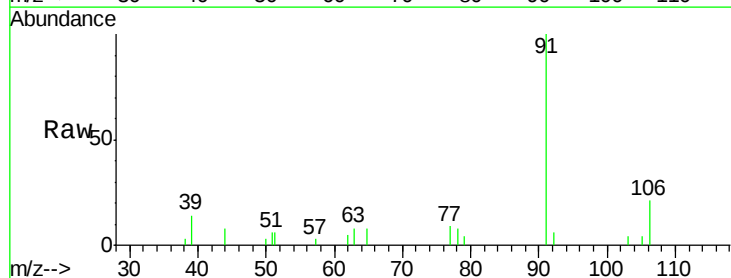


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

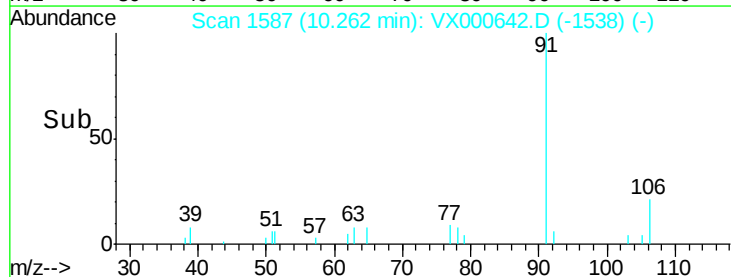
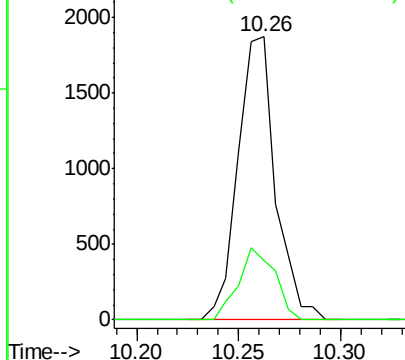


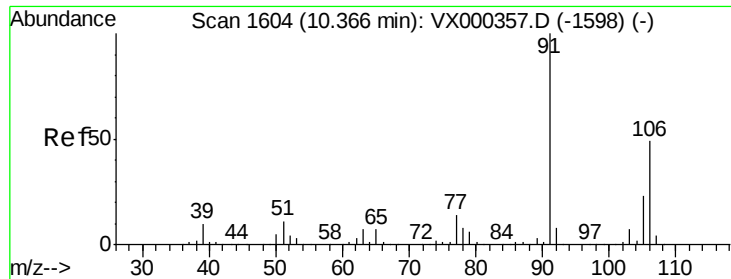
#67  
Ethyl Benzene  
Concen: 0.32 ug/l  
RT: 10.26 min Scan# 1587  
Delta R.T. -0.00 min  
Lab File: VX000642.D  
Acq: 02 Apr 2018 15:50

Tgt Ion: 91 Resp: 2396  
Ion Ratio Lower Upper  
91 100  
106 20.8 25.0 37.6#



Abundance Ion 91.00 (90.70 to 91.70): VX0  
Ion 106.00 (105.70 to 106.70): V

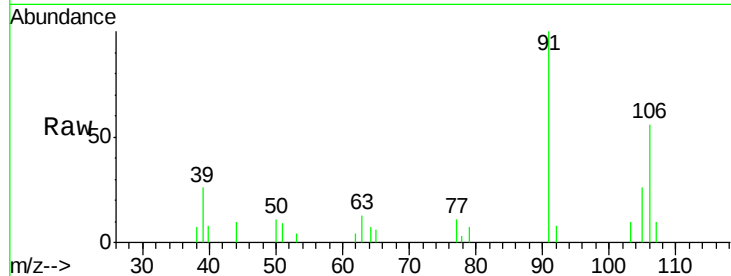




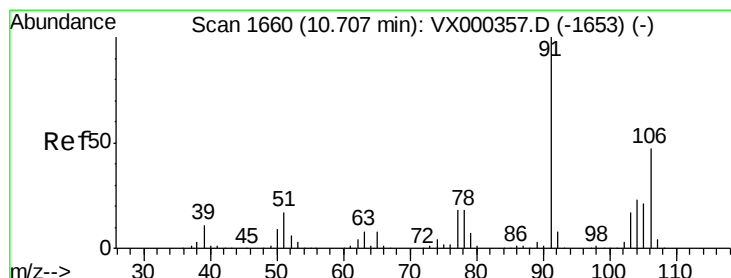
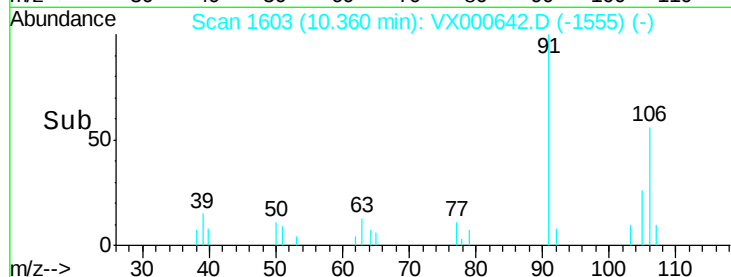
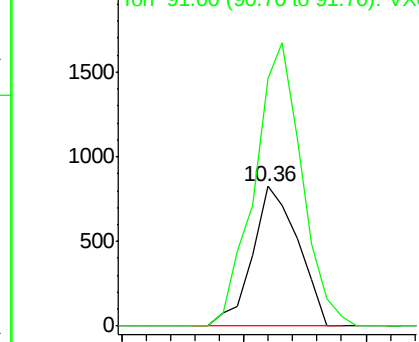
#68  
m/p-Xylenes  
Concen: 0.37 ug/l  
RT: 10.36 min Scan# 1603  
Delta R.T. -0.01 min  
Lab File: VX000642.D  
Acq: 02 Apr 2018 15:50

Instrument :  
MSVOA\_X  
ClientSampleId :  
EO-03-033018-A

Tgt Ion:106 Resp: 1079  
Ion Ratio Lower Upper  
106 100  
91 209.5 163.4 245.2

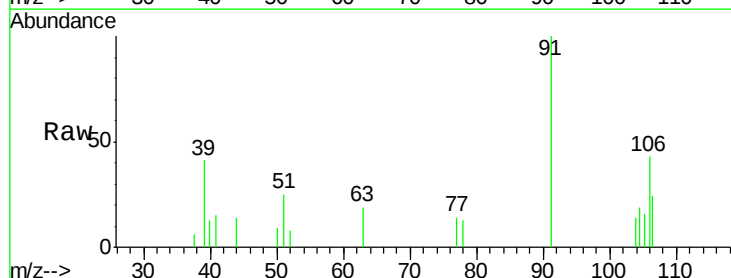


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VX0

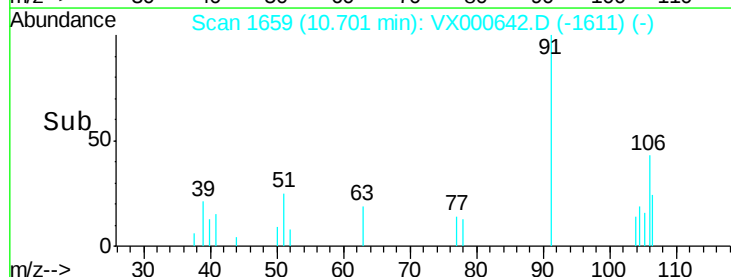
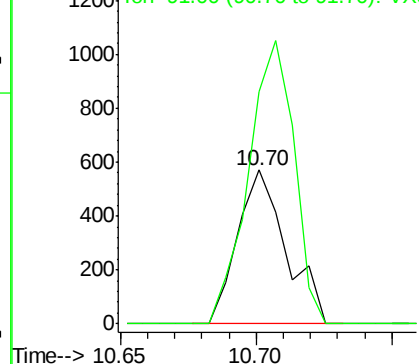


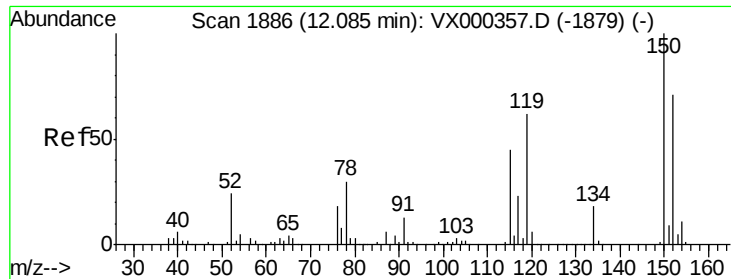
#69  
o-Xylene  
Concen: 0.25 ug/l  
RT: 10.70 min Scan# 1659  
Delta R.T. -0.01 min  
Lab File: VX000642.D  
Acq: 02 Apr 2018 15:50

Tgt Ion:106 Resp: 704  
Ion Ratio Lower Upper  
106 100  
91 173.9 106.5 319.6



Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX000642.D

Acq: 02 Apr 2018 15:50

Instrument :

MSVOA\_X

ClientSampleId :

EO-03-033018-A

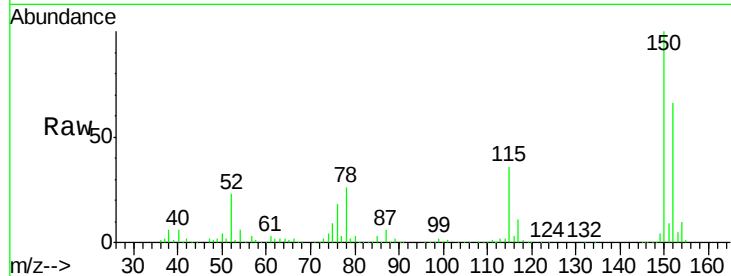
Tgt Ion:152 Resp: 106005

Ion Ratio Lower Upper

152 100

115 57.7 39.8 119.3

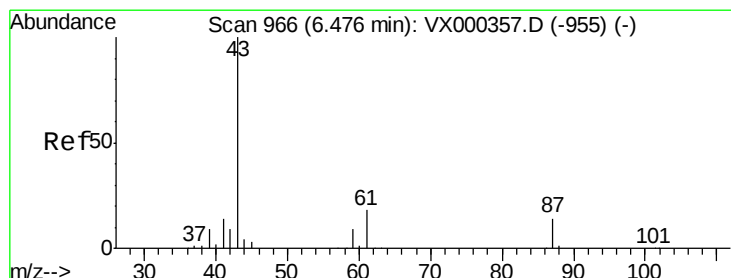
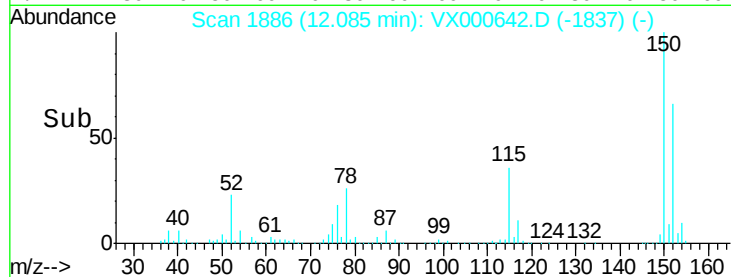
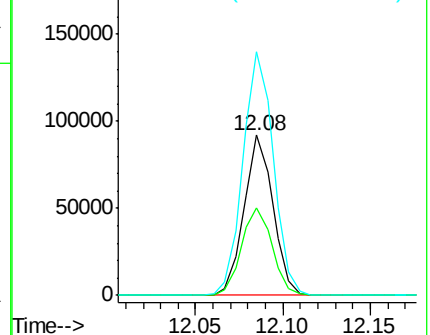
150 159.5 0.0 344.4



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



#74

N-ethyl acetate

Concen: Below Cal

RT: 6.47 min Scan# 965

Delta R.T. -0.01 min

Lab File: VX000642.D

Acq: 02 Apr 2018 15:50

Tgt Ion: 43 Resp: 989

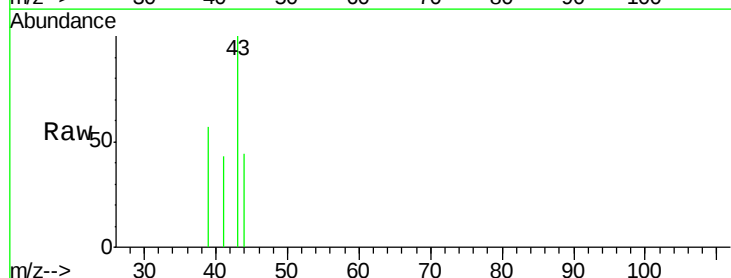
Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.0 0.0 0.0

61 0.0 14.4 21.6#

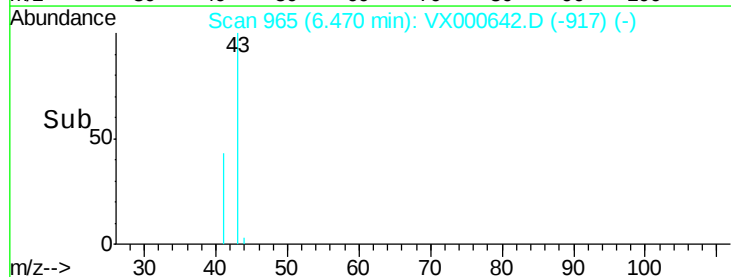
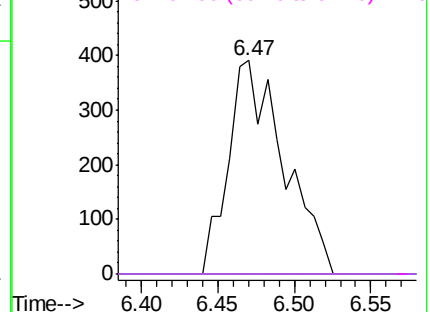


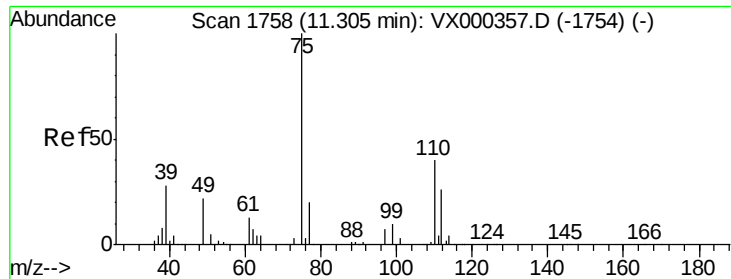
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

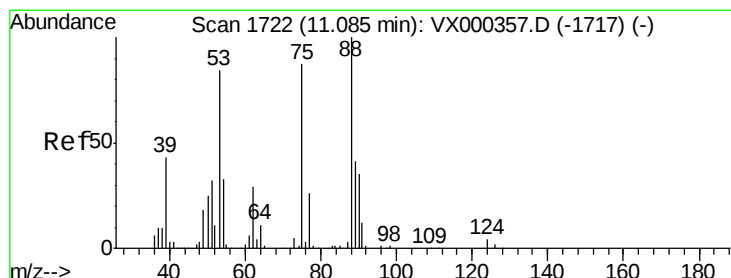
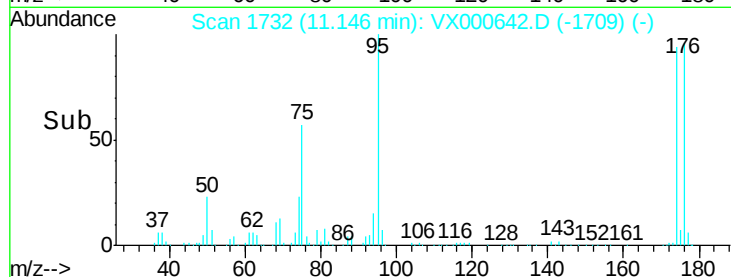
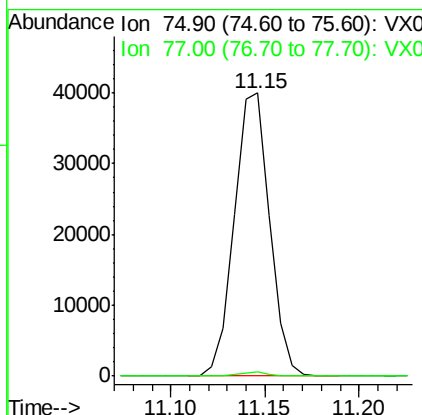
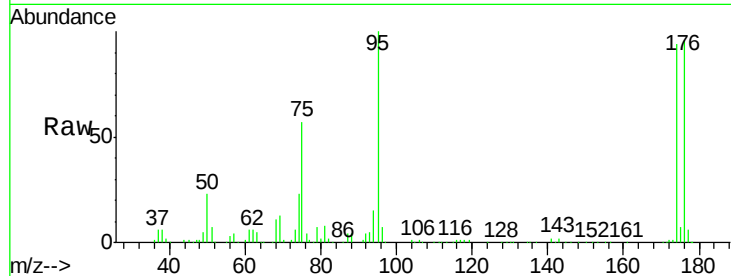




#76  
 1,2,3-Trichloropropane  
 Concen: 22.84 ug/l  
 RT: 11.15 min Scan# 1732  
 Delta R.T. -0.16 min  
 Lab File: VX000642.D  
 Acq: 02 Apr 2018 15:50

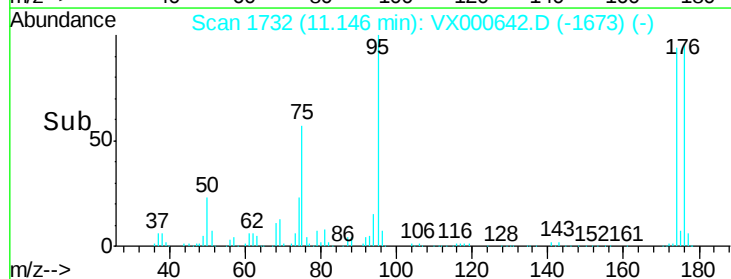
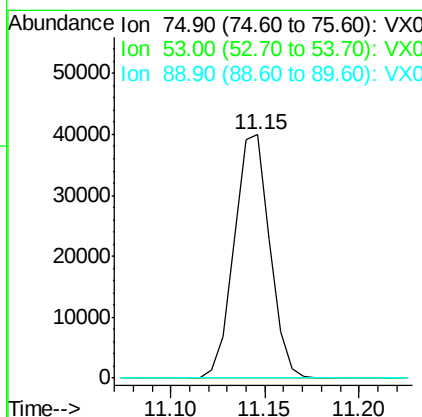
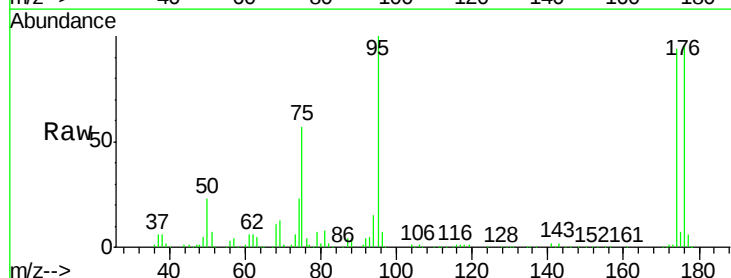
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 EO-03-033018-A

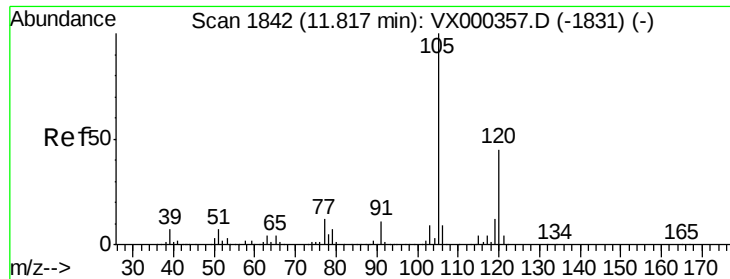
Tgt Ion: 75 Resp: 52042  
 Ion Ratio Lower Upper  
 75 100  
 77 1.1 21.4 64.2#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 73.96 ug/l  
 RT: 11.15 min Scan# 1732  
 Delta R.T. 0.06 min  
 Lab File: VX000642.D  
 Acq: 02 Apr 2018 15:50

Tgt Ion: 75 Resp: 52042  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 80.7 121.1#  
 89 0.0 39.4 59.0#

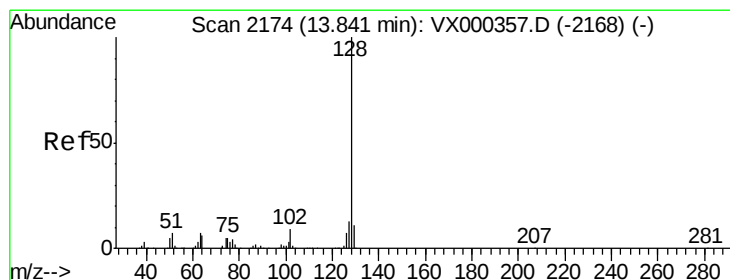
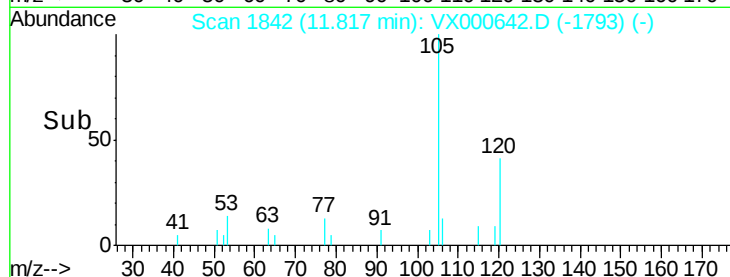
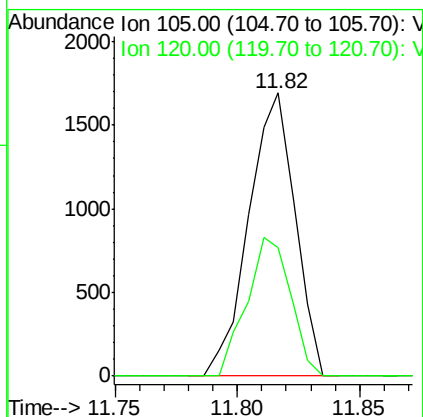
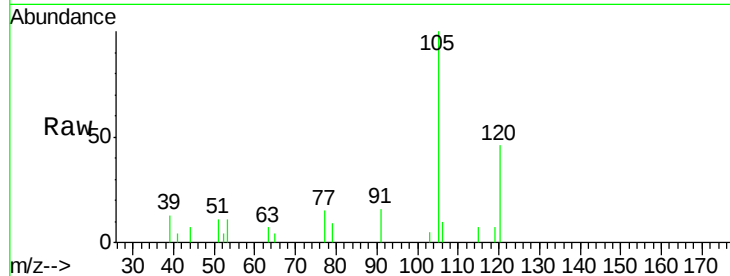




#84  
 1,2,4-Trimethylbenzene  
 Concen: 0.36 ug/l  
 RT: 11.82 min Scan# 1842  
 Delta R.T. -0.00 min  
 Lab File: VX000642.D  
 Acq: 02 Apr 2018 15:50

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 EO-03-033018-A

Tgt Ion:105 Resp: 2234  
 Ion Ratio Lower Upper  
 105 100  
 120 46.4 22.4 67.3



#95  
 Naphthalene  
 Concen: 8.92 ug/l  
 RT: 13.84 min Scan# 2174  
 Delta R.T. -0.00 min  
 Lab File: VX000642.D  
 Acq: 02 Apr 2018 15:50

Tgt Ion:128 Resp: 77292  
 Ion Ratio Lower Upper  
 128 100  
 127 12.8 10.6 15.8  
 129 11.0 8.9 13.3

