

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX020519\  
 Data File : VX007377.D  
 Acq On : 05 Feb 2019 15:25  
 Operator : JC/SP  
 Sample : PB116824ZHE#03  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB116824ZHE#03

Quant Time: Feb 06 01:10:22 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X020119W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Feb 02 01:32:36 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 484877   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 752087   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 710639   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 352183   | 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   | 264437   | 51.38 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 102.76% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 236566   | 48.34 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 96.68%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 929694   | 51.21 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 102.42% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 321541   | 48.51 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 97.02%  |          |

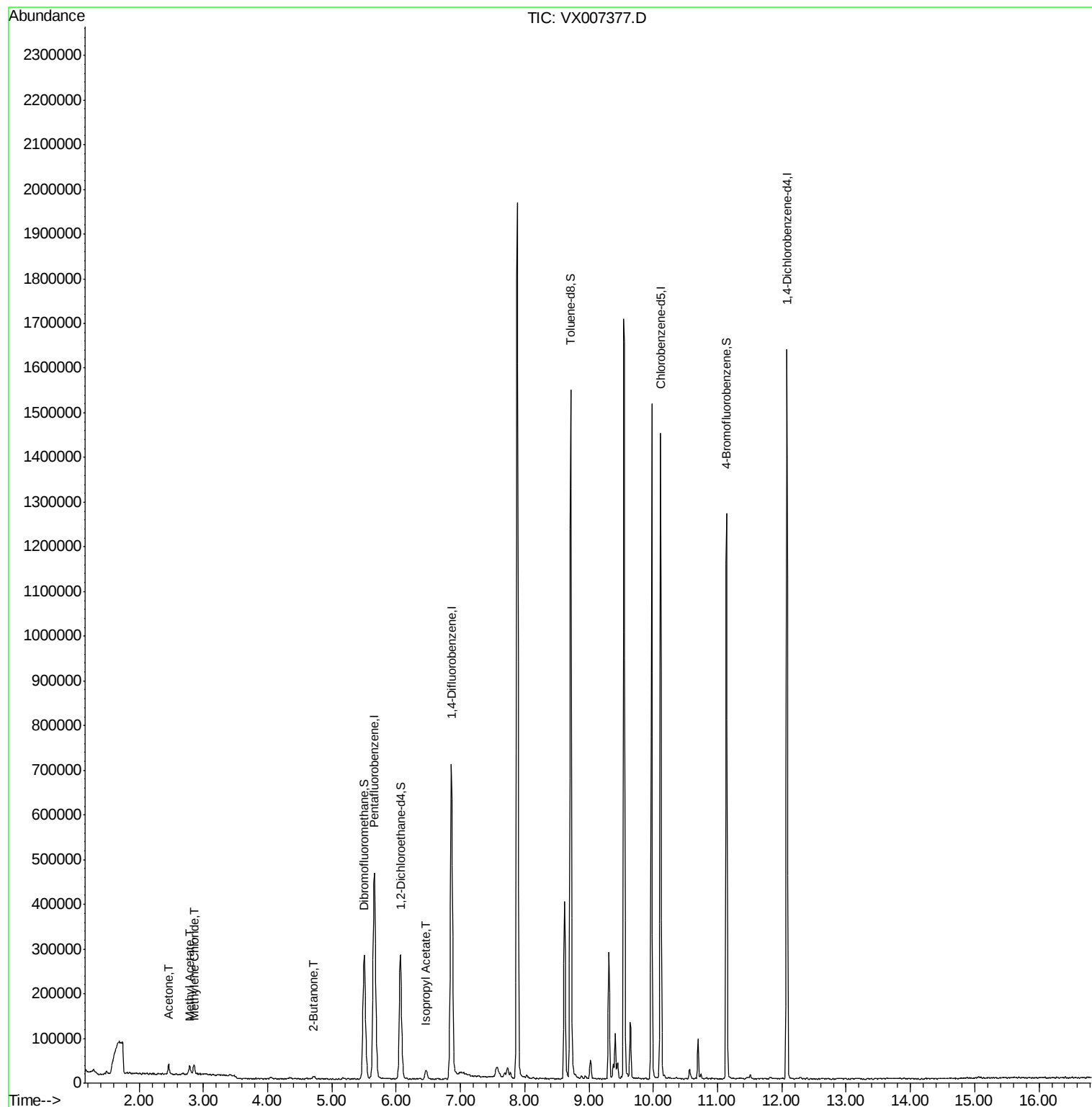
| Target Compounds       | R.T. | QIon | Response | Conc   | Units | Qvalue |
|------------------------|------|------|----------|--------|-------|--------|
| 16) Acetone            | 2.46 | 43   | 25903    | 10.987 | ug/l  | 96     |
| 18) Methyl Acetate     | 2.78 | 43   | 27900    | 5.081  | ug/l  | 96     |
| 20) Methylene Chloride | 2.85 | 84   | 10801    | 1.864  | ug/l  | 93     |
| 25) 2-Butanone         | 4.71 | 43   | 10981    | 3.273  | ug/l  | 97     |
| 43) Isopropyl Acetate  | 6.46 | 43   | 26592    | 2.526  | ug/l  | 96     |

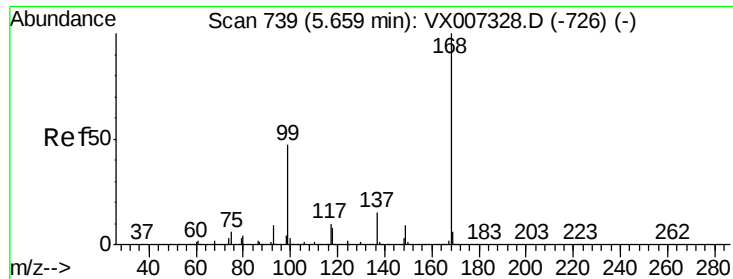
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Sat Feb 02 01:32:36 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX007377.D

Acq: 05 Feb 2019 15:25

Instrument :

MSVOA\_X

ClientSampleId :

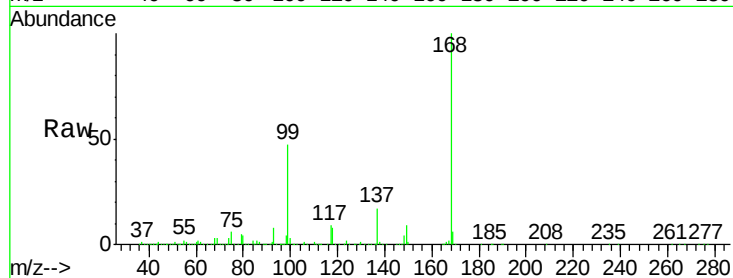
PB116824ZHE#03

Tot Ion:168 Resp: 484877

Ion Ratio Lower Upper

168 100

99 46.6 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

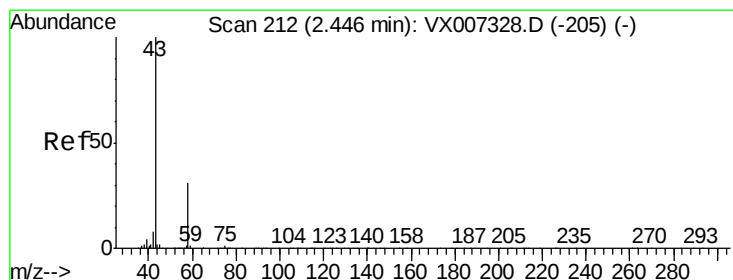
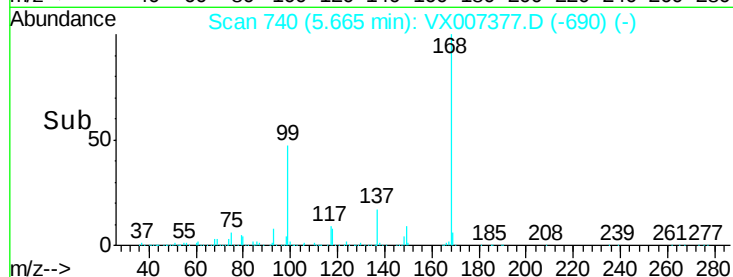
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 10.987 ug/l

RT: 2.46 min Scan# 214

Delta R.T. 0.01 min

Lab File: VX007377.D

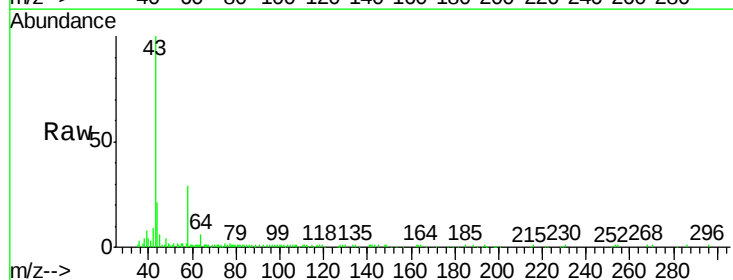
Acq: 05 Feb 2019 15:25

Tgt Ion: 43 Resp: 25903

Ion Ratio Lower Upper

43 100

58 29.0 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.46

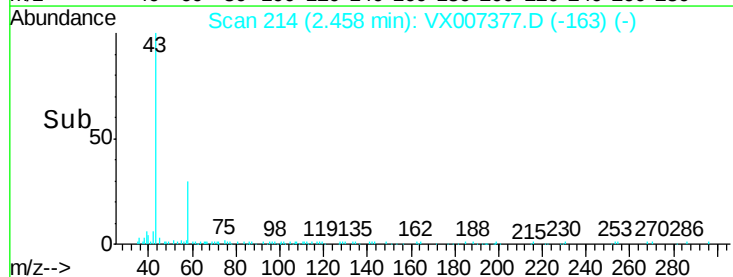
15000

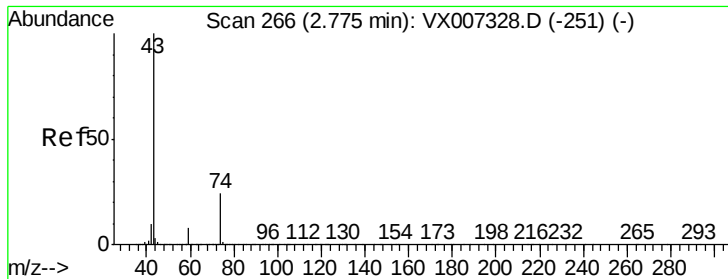
10000

5000

0

Time-->





#18

Methyl Acetate

Concen: 5.081 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX007377.D

Acq: 05 Feb 2019 15:25

Instrument :

MSVOA\_X

ClientSampleId :

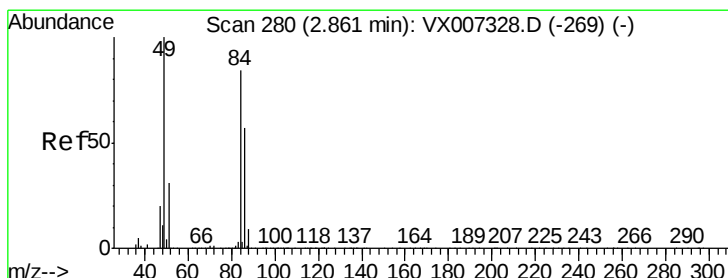
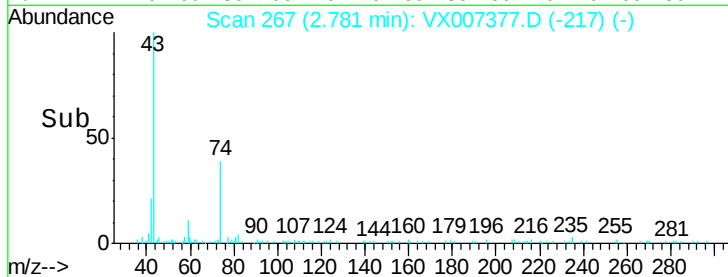
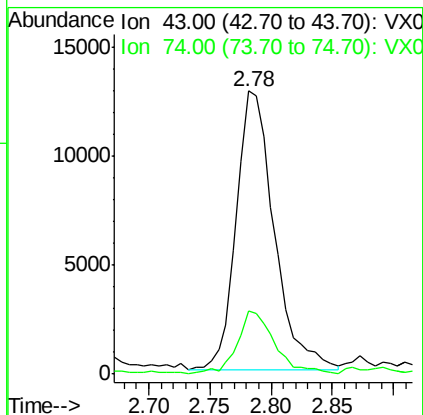
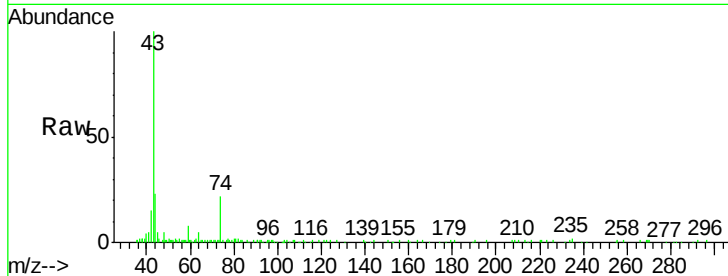
PB116824ZHE#03

Tot Ion: 43 Resp: 27900

Ion Ratio Lower Upper

43 100

74 22.3 19.4 29.2



#20

Methylene Chloride

Concen: 1.864 ug/l

RT: 2.85 min Scan# 279

Delta R.T. -0.01 min

Lab File: VX007377.D

Acq: 05 Feb 2019 15:25

Tgt Ion: 84 Resp: 10801

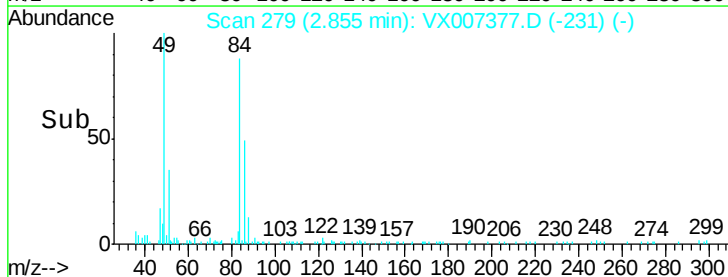
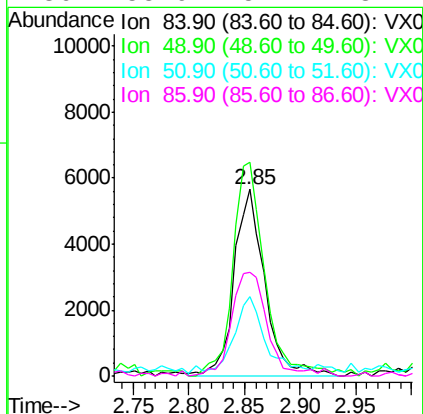
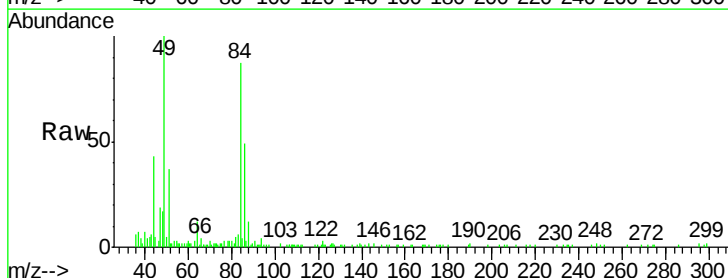
Ion Ratio Lower Upper

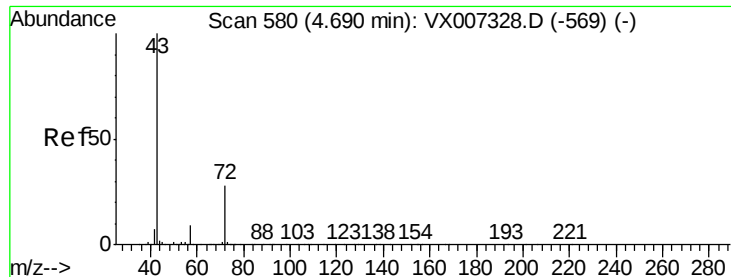
84 100

49 114.6 94.8 142.2

51 40.6 29.8 44.8

86 55.9 54.1 81.1

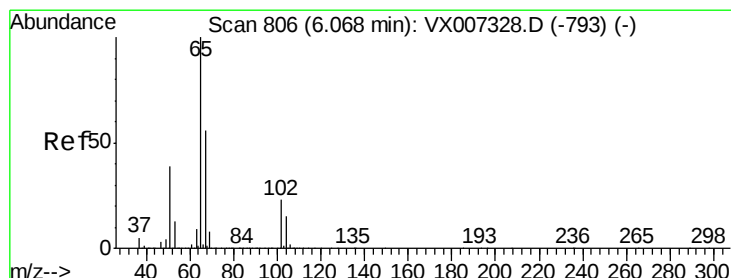
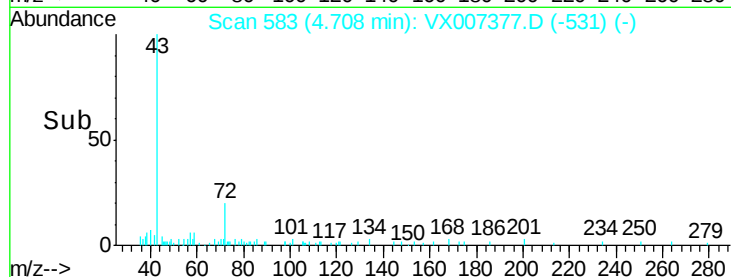
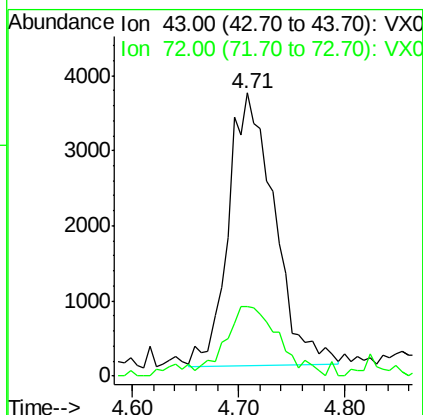
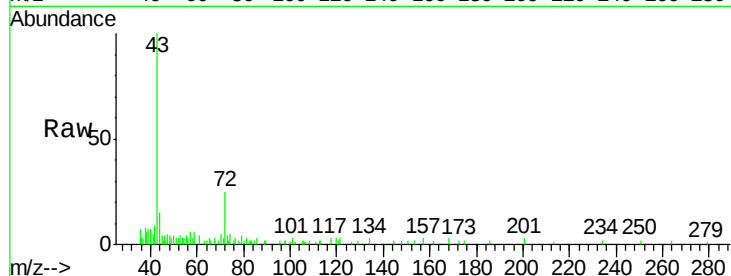




#25  
2-Butanone  
Concen: 3.273 ug/l  
RT: 4.71 min Scan# 583  
Delta R.T. 0.02 min  
Lab File: VX007377.D  
Acq: 05 Feb 2019 15:25

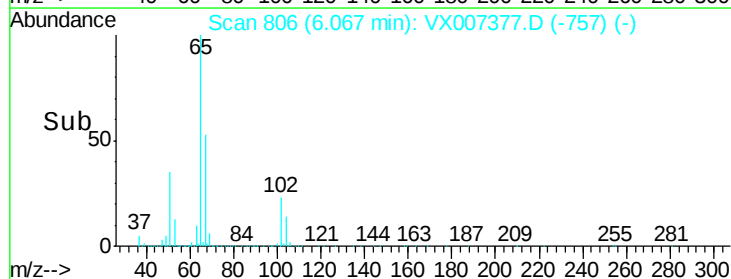
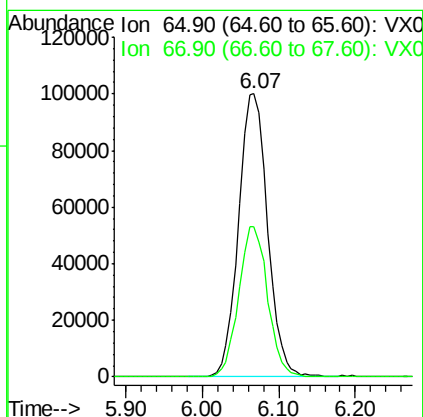
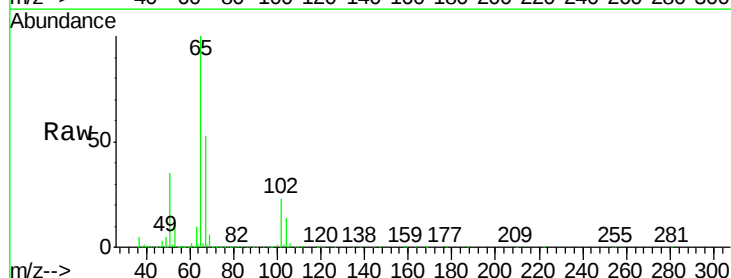
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB116824ZHE#03

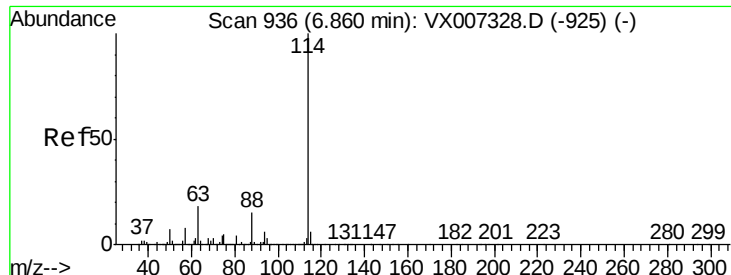
Tot Ion: 43 Resp: 10981  
Ion Ratio Lower Upper  
43 100  
72 25.9 22.2 33.2



#33  
1,2-Dichloroethane-d4  
Concen: 51.381 ug/l  
RT: 6.07 min Scan# 806  
Delta R.T. -0.00 min  
Lab File: VX007377.D  
Acq: 05 Feb 2019 15:25

Tgt Ion: 65 Resp: 264437  
Ion Ratio Lower Upper  
65 100  
67 52.7 0.0 108.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX007377.D

Acq: 05 Feb 2019 15:25

Instrument :

MSVOA\_X

ClientSampleId :

PB116824ZHE#03

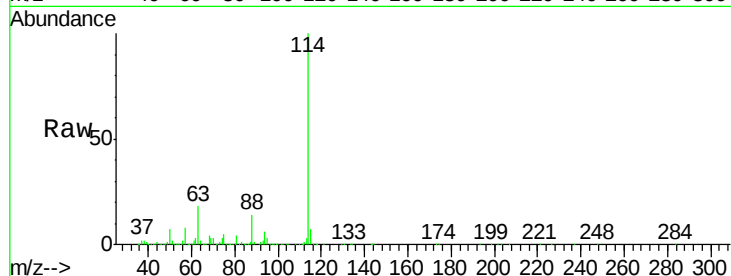
Tot Ion:114 Resp: 752087

Ion Ratio Lower Upper

114 100

63 18.1 0.0 35.6

88 14.4 0.0 29.6



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

400000

300000

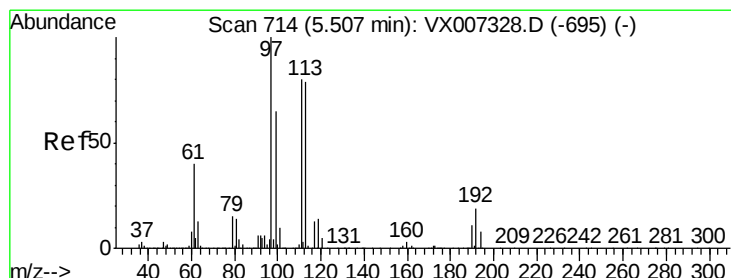
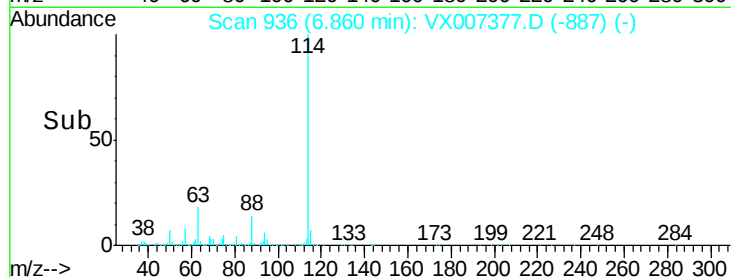
200000

100000

0

6.80 6.90 7.00

Time-->



#35

Dibromofluoromethane

Concen: 48.342 ug/l

RT: 5.51 min Scan# 714

Delta R.T. -0.00 min

Lab File: VX007377.D

Acq: 05 Feb 2019 15:25

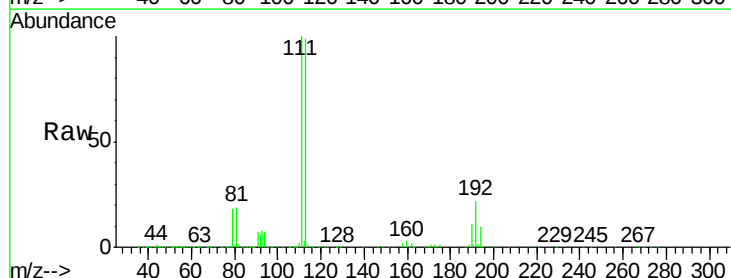
Tgt Ion:113 Resp: 236566

Ion Ratio Lower Upper

113 100

111 100.8 81.8 122.8

192 21.9 18.5 27.7



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

100000

80000

60000

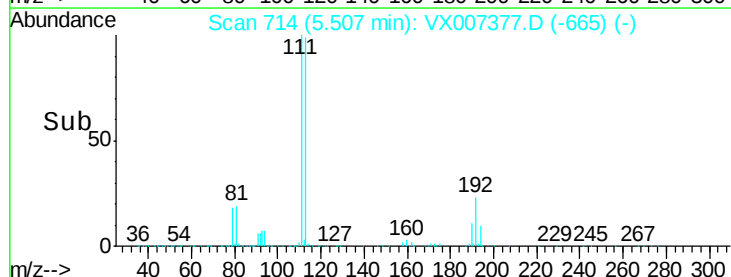
40000

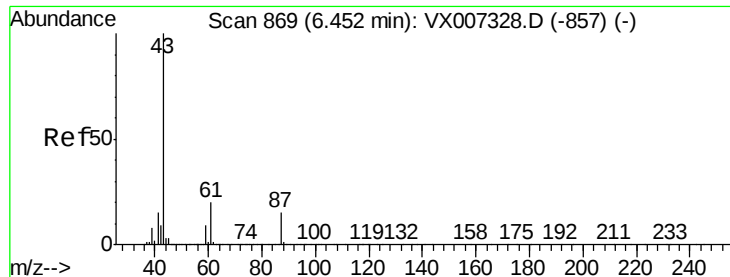
20000

0

5.40 5.50 5.60

Time-->





#43

Isopropyl Acetate

Concen: 2.526 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX007377.D

Acq: 05 Feb 2019 15:25

Instrument :

MSVOA\_X

ClientSampleId :

PB116824ZHE#03

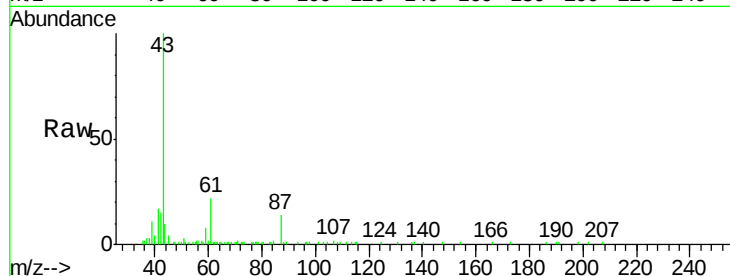
Tot Ion: 43 Resp: 26592

Ion Ratio Lower Upper

43 100

61 22.8 16.1 24.1

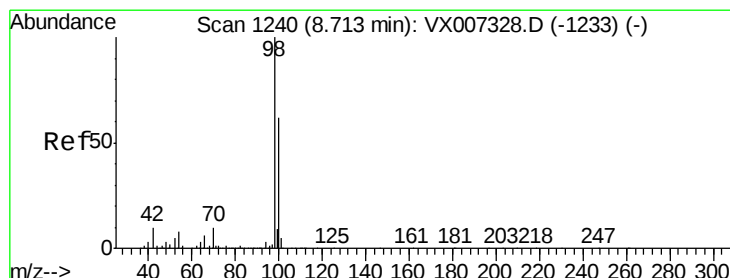
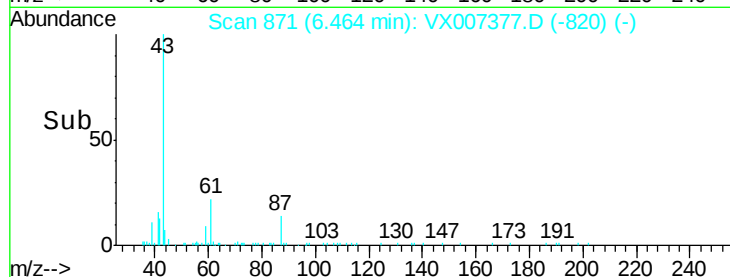
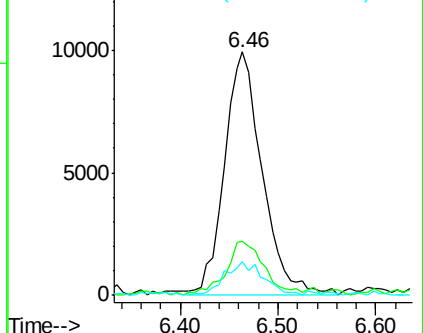
87 14.0 11.5 17.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0



#50

Toluene-d8

Concen: 51.206 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007377.D

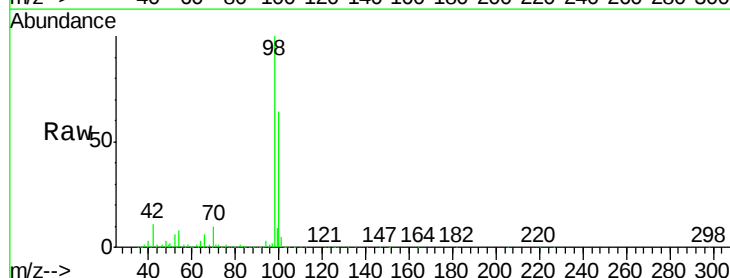
Acq: 05 Feb 2019 15:25

Tgt Ion: 98 Resp: 929694

Ion Ratio Lower Upper

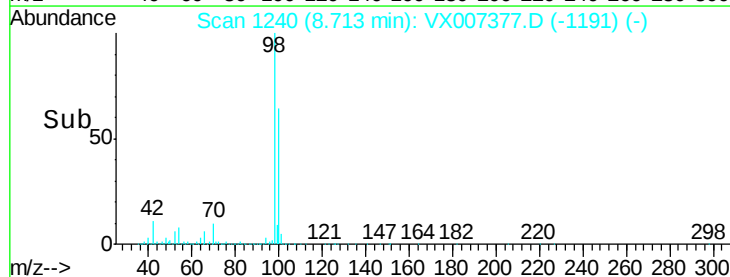
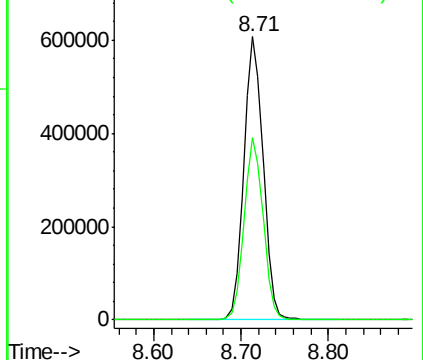
98 100

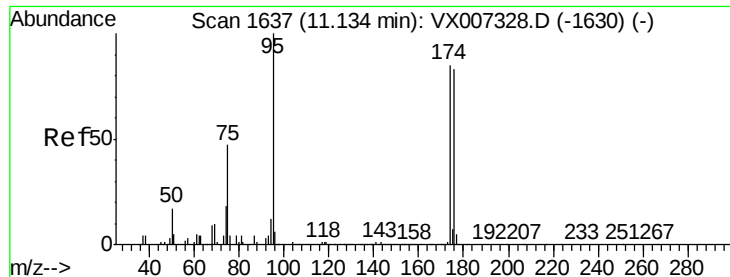
100 63.5 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 48.507 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.01 min

Lab File: VX007377.D

Acq: 05 Feb 2019 15:25

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MSVOA\_X

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PB116824ZHE#03

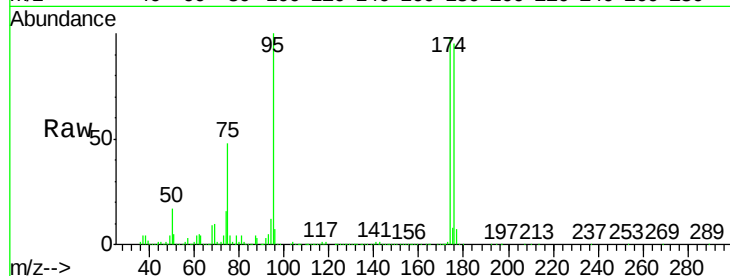
Tot Ion: 95 Resp: 321541

Ion Ratio Lower Upper

95 100

174 93.2 0.0 189.2

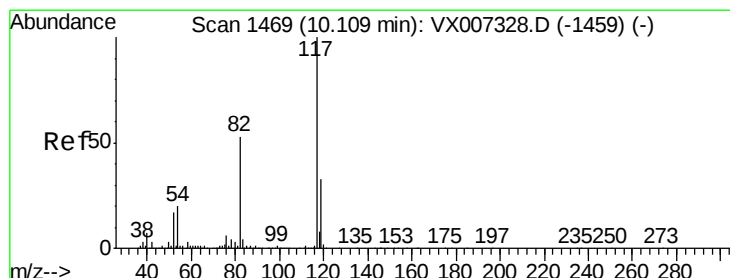
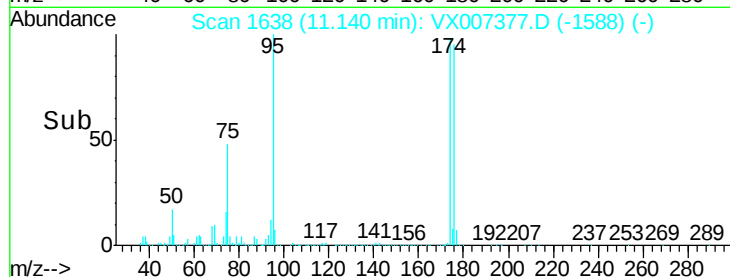
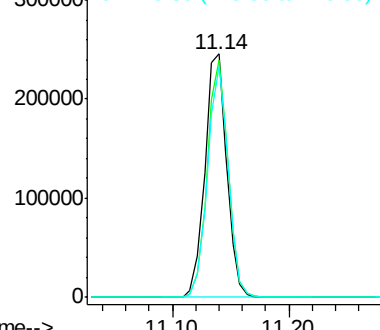
176 90.2 0.0 186.2



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: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.01 min

Lab File: VX007377.D

Acq: 05 Feb 2019 15:25

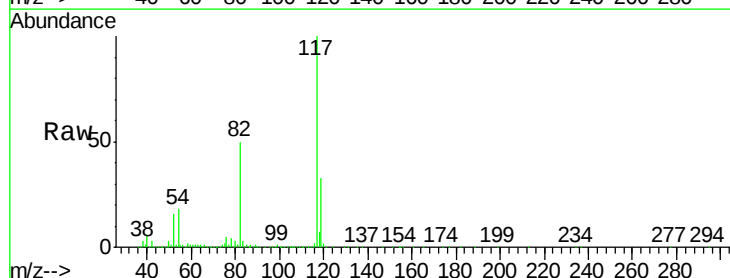
Tgt Ion: 117 Resp: 710639

Ion Ratio Lower Upper

117 100

82 49.7 42.1 63.1

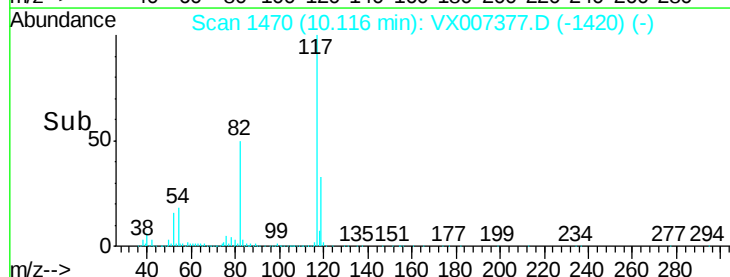
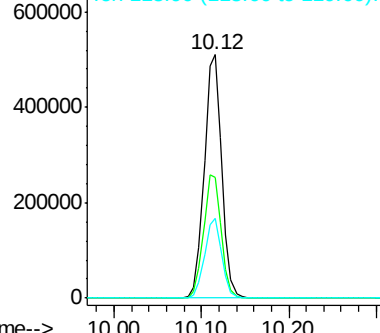
119 32.9 26.5 39.7

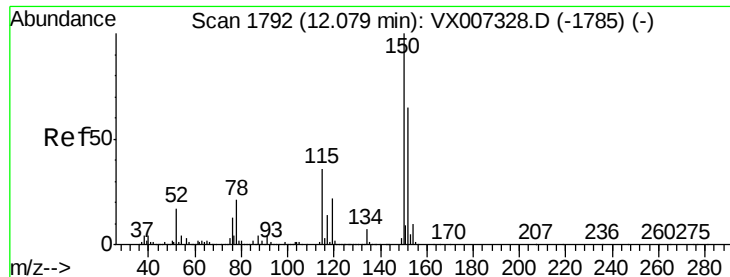


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX007377.D

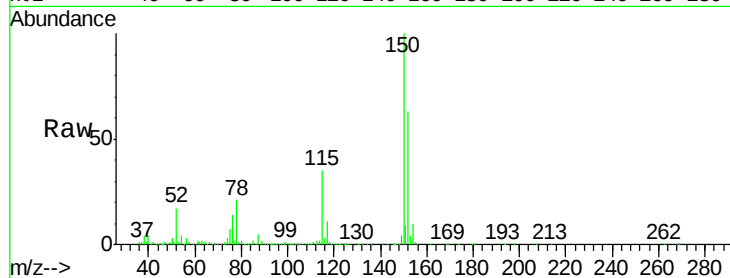
Acq: 05 Feb 2019 15:25

Instrument :

MSVOA\_X

ClientSampleId :

PB116824ZHE#03



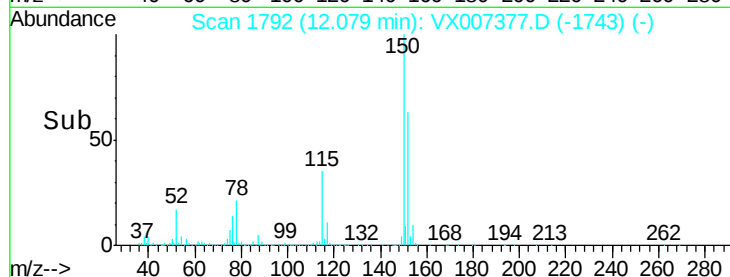
Tot Ion:152 Resp: 352183

Ion Ratio Lower Upper

152 100

115 54.8 38.0 114.0

150 156.7 0.0 346.4



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

