

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100418\  
 Data File : VX004975.D  
 Acq On : 03 Oct 2018 17:59  
 Operator : JC/MD  
 Sample : PB113446ZHE#01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB113446ZHE#01

Quant Time: Oct 04 02:01:02 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X092618W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 03 04:00:03 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 284557   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 449956   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 436138   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 251847   | 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   | 190797   | 46.94 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.88%  |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 165231   | 43.33 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 86.66%  |          |
| 50) Toluene-d8              | 8.72  | 98   | 645077   | 50.88 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.76% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 249599   | 54.65 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 109.30% |          |

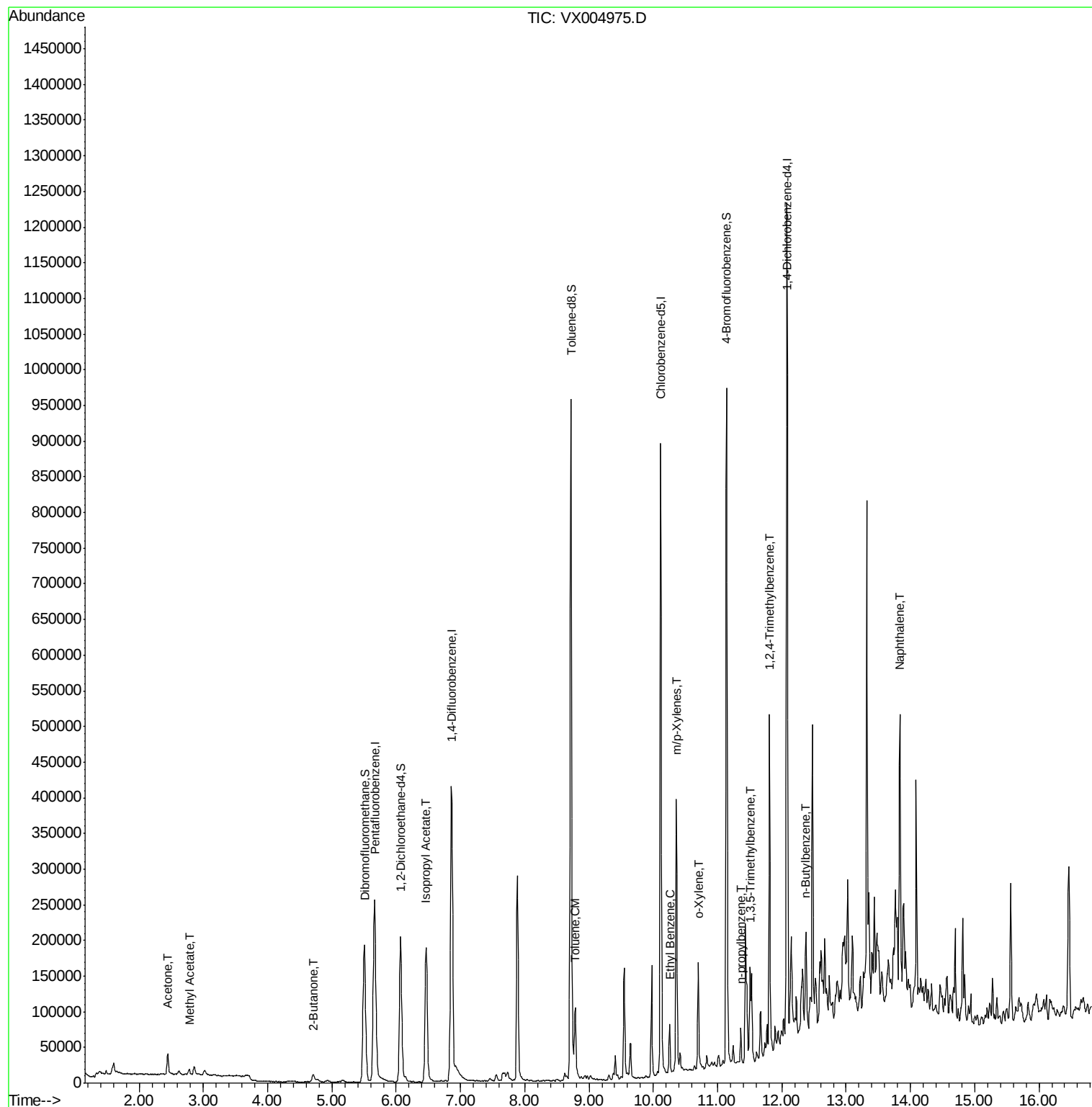
| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 16) Acetone                | 2.45  | 43   | 31647    | 13.335 | ug/l   | 92     |
| 18) Methyl Acetate         | 2.78  | 43   | 9198     | 1.530  | ug/l   | 94     |
| 25) 2-Butanone             | 4.71  | 43   | 18113    | 5.178  | ug/l   | 96     |
| 43) Isopropyl Acetate      | 6.46  | 43   | 265692   | 26.654 | ug/l   | 96     |
| 52) Toluene                | 8.79  | 92   | 34277    | 3.830  | ug/l   | 98     |
| 67) Ethyl Benzene          | 10.26 | 91   | 41640    | 2.345  | ug/l   | 98     |
| 68) m/p-Xylenes            | 10.36 | 106  | 92573    | 13.342 | ug/l   | 95     |
| 69) o-Xylene               | 10.70 | 106  | 32903    | 5.163  | ug/l   | 99     |
| 78) n-propylbenzene        | 11.36 | 91   | 30926    | 1.698  | ug/l   | 100    |
| 80) 1,3,5-Trimethylbenzene | 11.51 | 105  | 56598    | 3.707  | ug/l   | 98     |
| 84) 1,2,4-Trimethylbenzene | 11.81 | 105  | 210798   | 13.906 | ug/l   | 99     |
| 89) n-Butylbenzene         | 12.38 | 91   | 20274    | 1.548  | ug/l # | 27     |
| 95) Naphthalene            | 13.83 | 128  | 238253   | 11.929 | ug/l   | 99     |

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

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Quant Time: Oct 04 02:01:02 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X092618W.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 03 04:00:03 2018  
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: VX004975.D

Acq: 03 Oct 2018 17:59

Instrument :

MSVOA\_X

ClientSampleId :

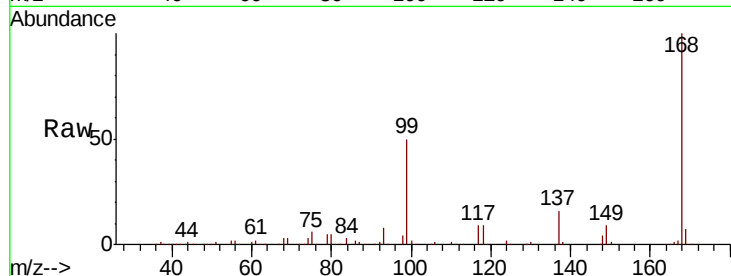
PB113446ZHE#01

Tot Ion:168 Resp: 284557

Ion Ratio Lower Upper

168 100

99 50.3 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

60000

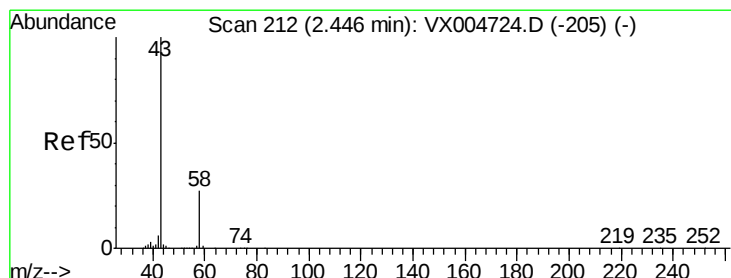
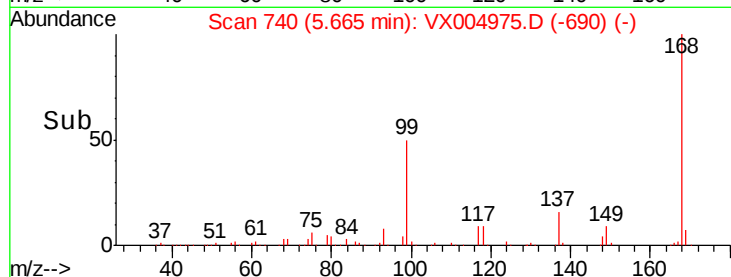
40000

20000

0

Time-->

5.60 5.80 6.00



#16

Acetone

Concen: 13.335 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX004975.D

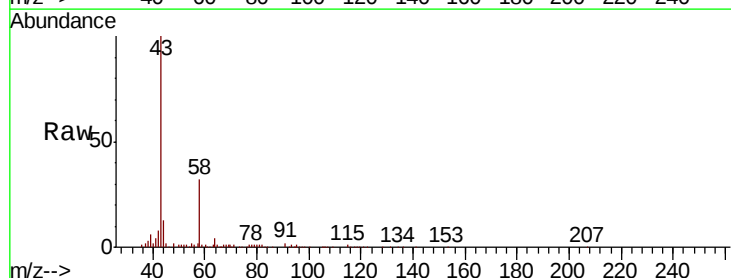
Acq: 03 Oct 2018 17:59

Tgt Ion: 43 Resp: 31647

Ion Ratio Lower Upper

43 100

58 31.6 21.8 32.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

20000

15000

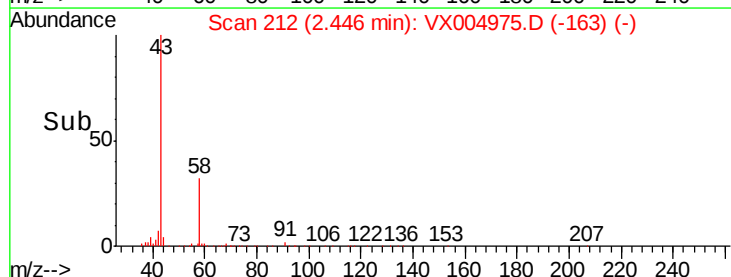
10000

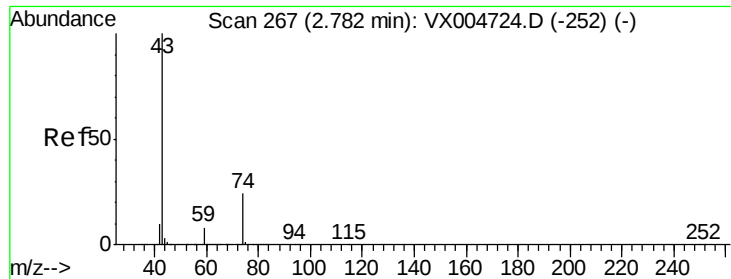
5000

0

Time-->

2.35 2.40 2.45 2.50 2.55

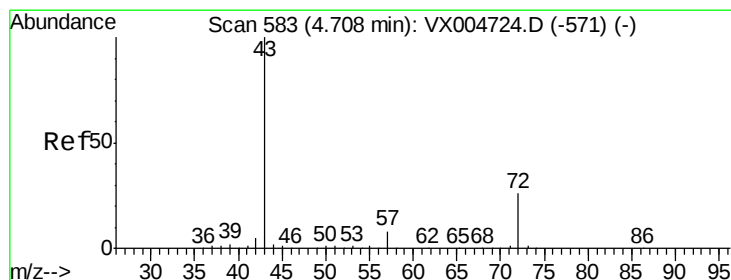
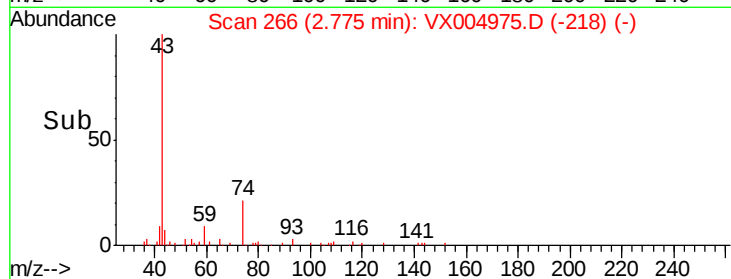
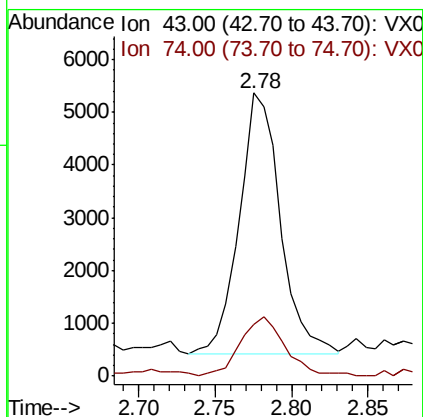
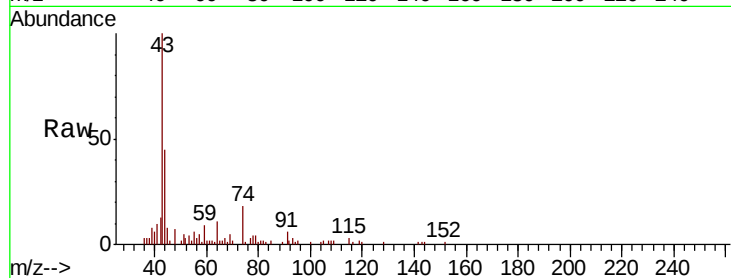




#18  
Methyl Acetate  
Concen: 1.530 ug/l  
RT: 2.78 min Scan# 266  
Delta R.T. -0.01 min  
Lab File: VX004975.D  
Acq: 03 Oct 2018 17:59

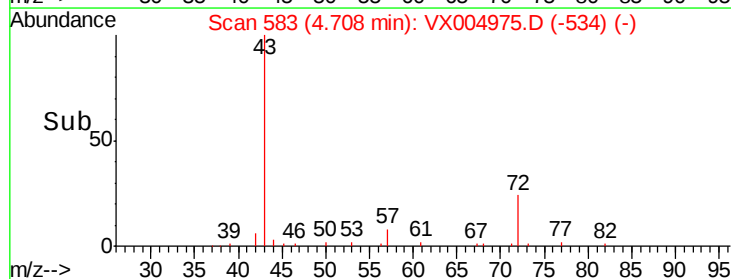
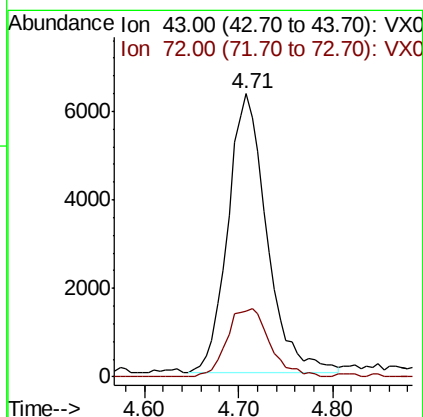
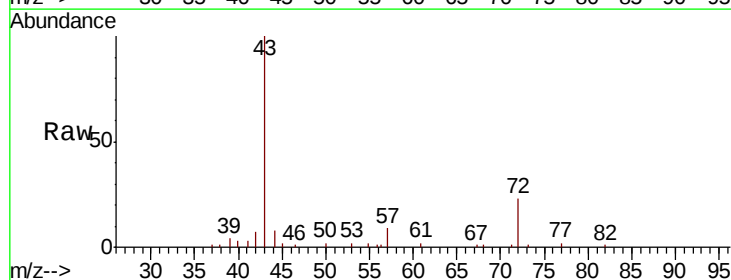
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB113446ZHE#01

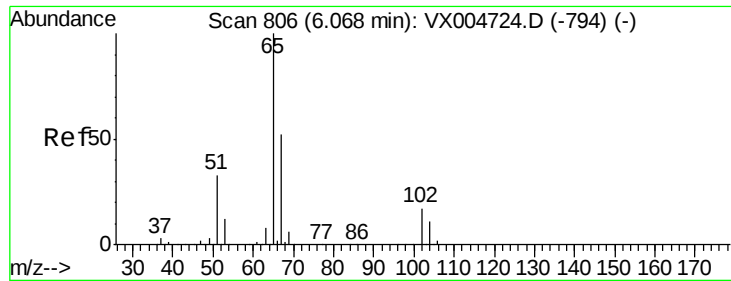
Tot Ion: 43 Resp: 9198  
Ion Ratio Lower Upper  
43 100  
74 25.1 17.8 26.8



#25  
2-Butanone  
Concen: 5.178 ug/l  
RT: 4.71 min Scan# 583  
Delta R.T. -0.00 min  
Lab File: VX004975.D  
Acq: 03 Oct 2018 17:59

Tgt Ion: 43 Resp: 18113  
Ion Ratio Lower Upper  
43 100  
72 23.7 20.8 31.2





#33

1,2-Dichloroethane-d4

Concen: 46.938 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX004975.D

Acq: 03 Oct 2018 17:59

Instrument :

MSVOA\_X

ClientSampleId :

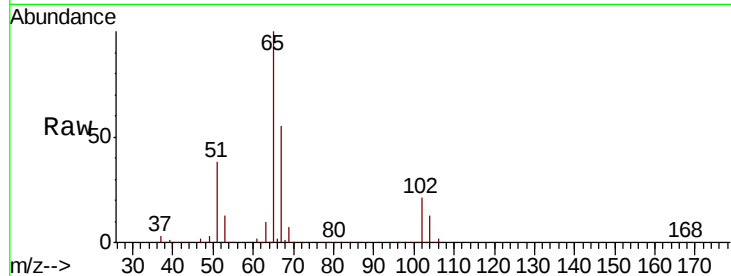
PB113446ZHE#01

Tot Ion: 65 Resp: 190797

Ion Ratio Lower Upper

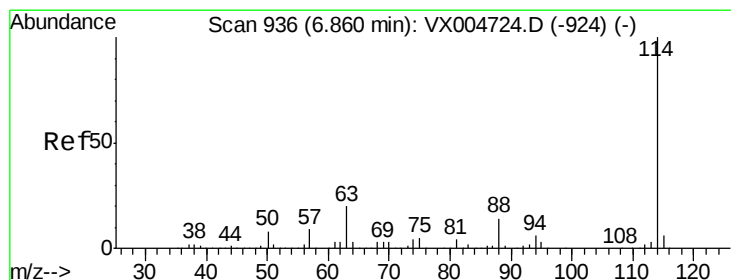
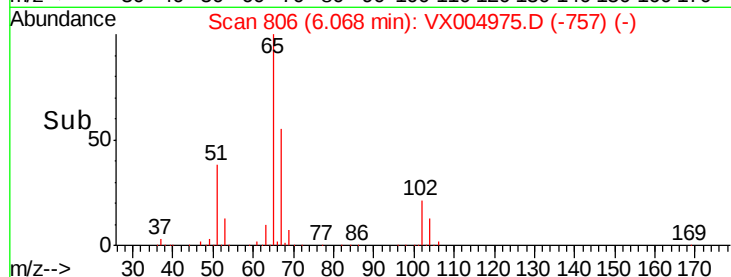
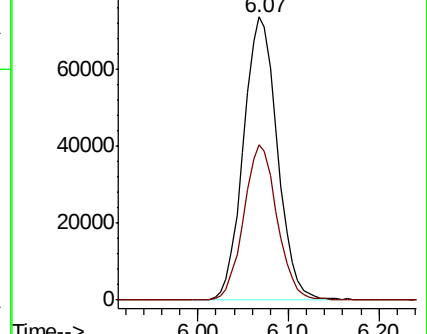
65 100

67 54.0 0.0 107.4



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: VX004975.D

Acq: 03 Oct 2018 17:59

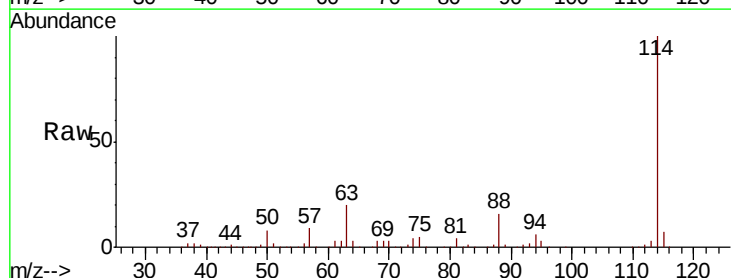
Tgt Ion: 114 Resp: 449956

Ion Ratio Lower Upper

114 100

63 20.1 0.0 39.8

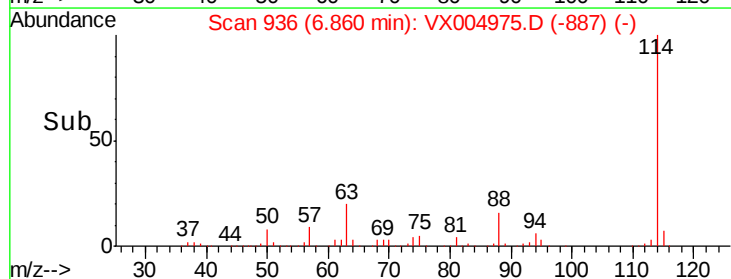
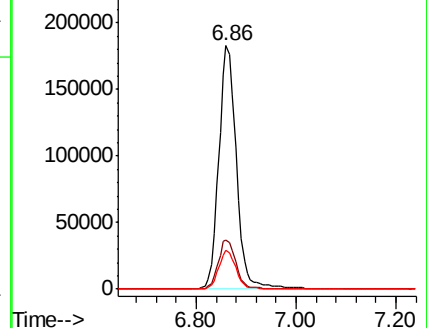
88 15.8 0.0 27.0

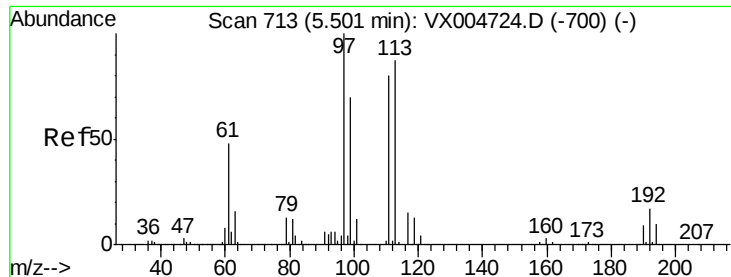


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 43.329 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX004975.D

Acq: 03 Oct 2018 17:59

Instrument :

MSVOA\_X

ClientSampleId :

PB113446ZHE#01

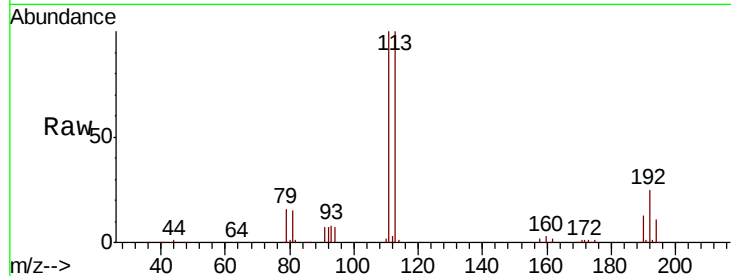
Tot Ion:113 Resp: 165231

Ion Ratio Lower Upper

113 100

111 102.8 77.0 115.4

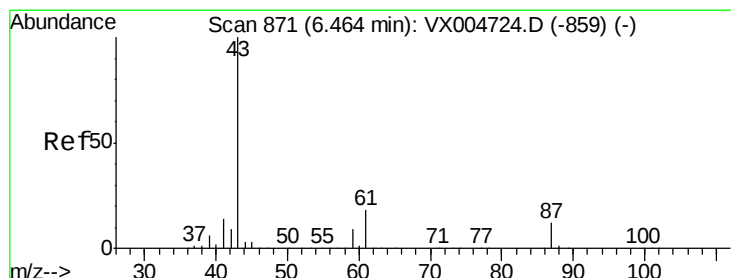
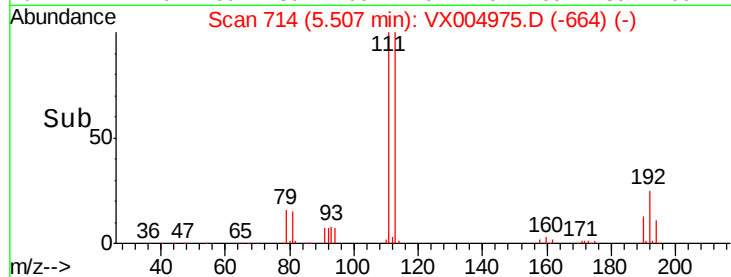
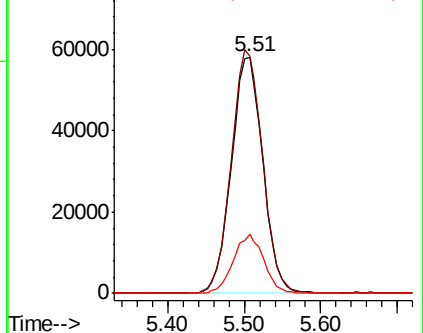
192 24.1 17.0 25.6



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



#43

Isopropyl Acetate

Concen: 26.654 ug/l

RT: 6.46 min Scan# 871

Delta R.T. -0.00 min

Lab File: VX004975.D

Acq: 03 Oct 2018 17:59

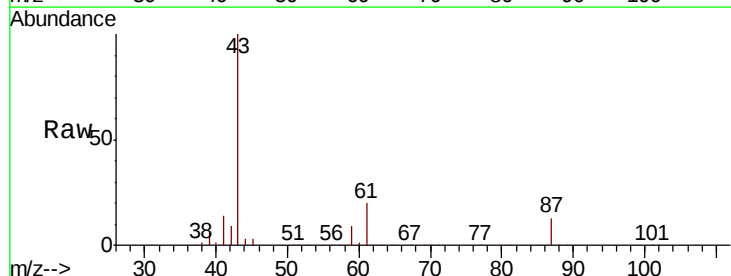
Tgt Ion: 43 Resp: 265692

Ion Ratio Lower Upper

43 100

61 20.2 14.2 21.4

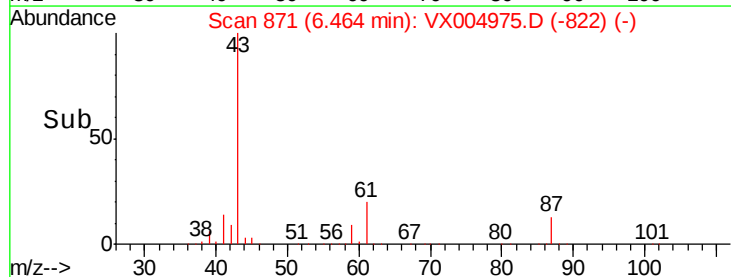
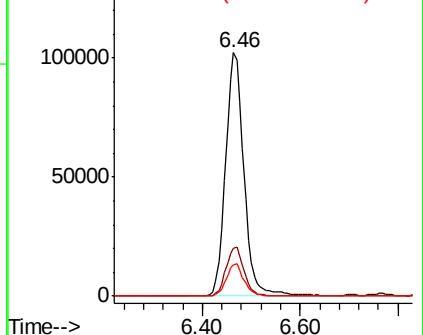
87 12.7 9.3 13.9

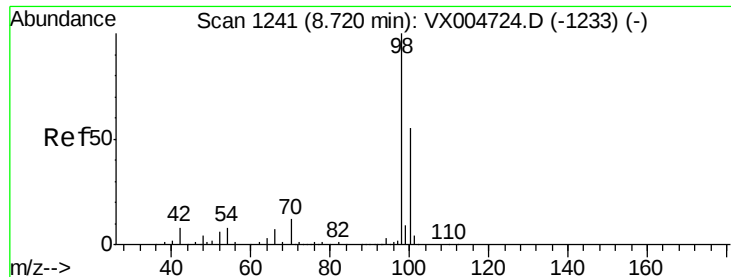


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

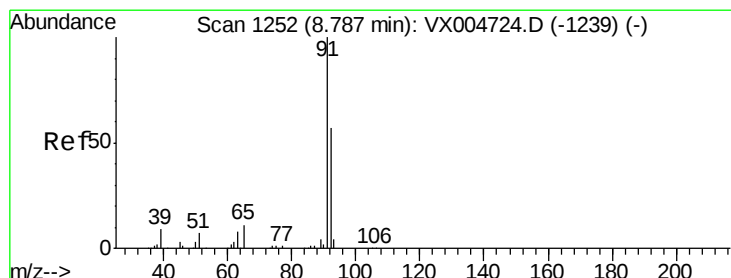
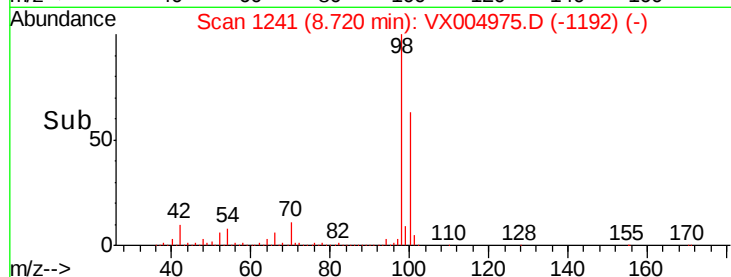
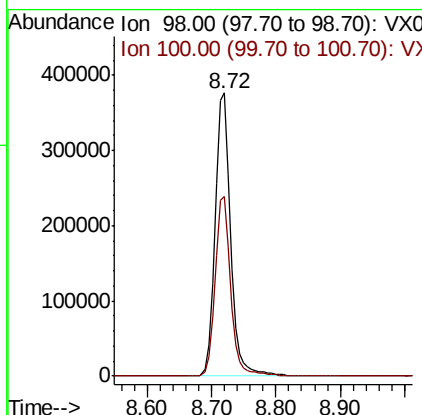
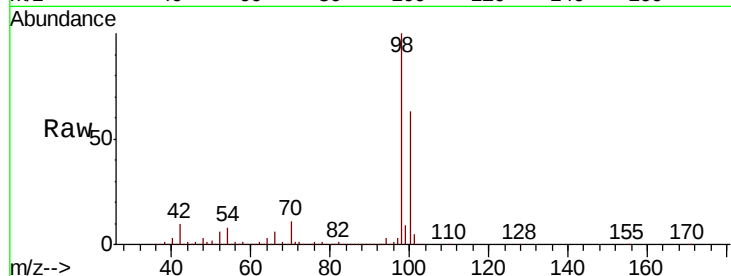




#50  
Toluene-d8  
Concen: 50.883 ug/l  
RT: 8.72 min Scan# 1241  
Delta R.T. -0.00 min  
Lab File: VX004975.D  
Acq: 03 Oct 2018 17:59

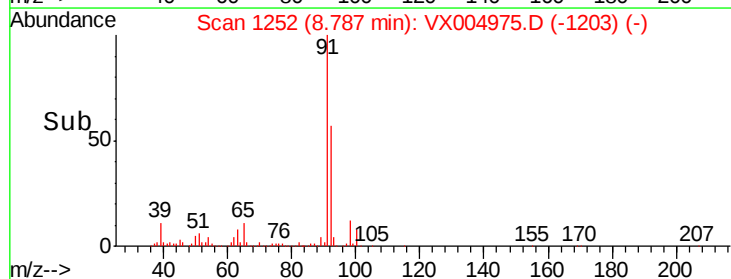
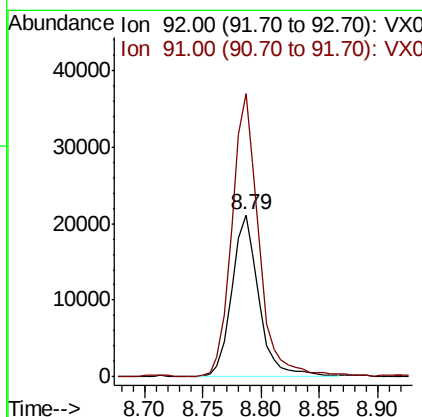
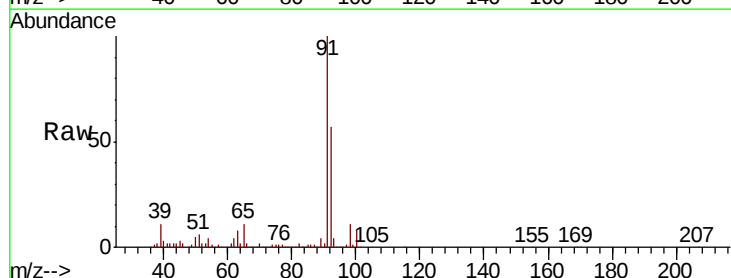
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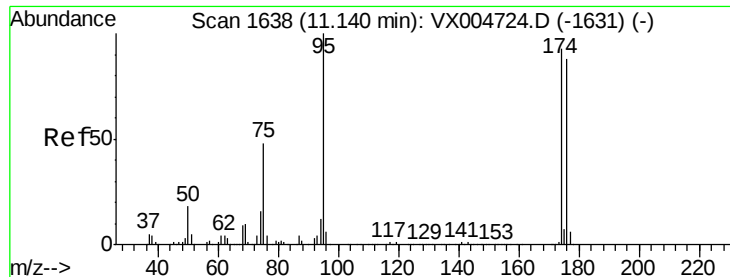
Tot Ion: 98 Resp: 645077  
Ion Ratio Lower Upper  
98 100  
100 63.5 51.9 77.9



#52  
Toluene  
Concen: 3.830 ug/l  
RT: 8.79 min Scan# 1252  
Delta R.T. -0.00 min  
Lab File: VX004975.D  
Acq: 03 Oct 2018 17:59

Tgt Ion: 92 Resp: 34277  
Ion Ratio Lower Upper  
92 100  
91 174.1 136.7 205.1





#62

4-Bromofluorobenzene

Concen: 54.650 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX004975.D

Acq: 03 Oct 2018 17:59

Instrument :

MSVOA\_X

ClientSampleId :

PB113446ZHE#01

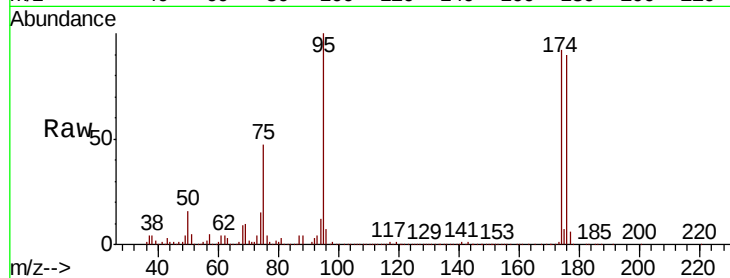
Tot Ion: 95 Resp: 249599

Ion Ratio Lower Upper

95 100

174 90.9 0.0 185.0

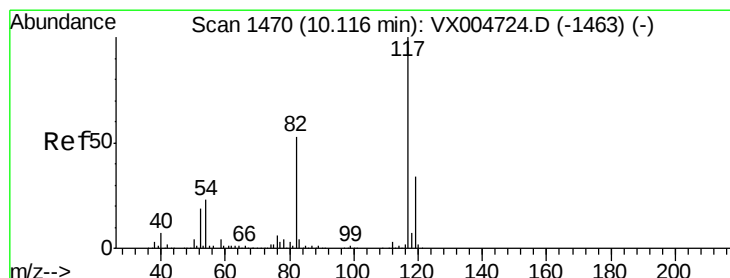
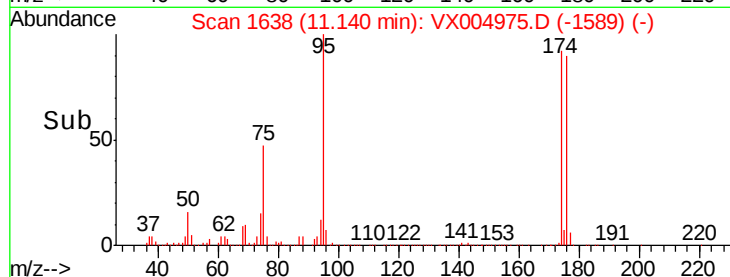
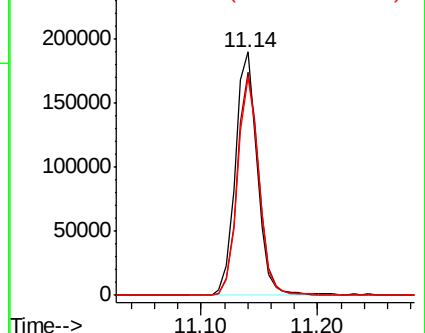
176 88.0 0.0 180.2



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. -0.00 min

Lab File: VX004975.D

Acq: 03 Oct 2018 17:59

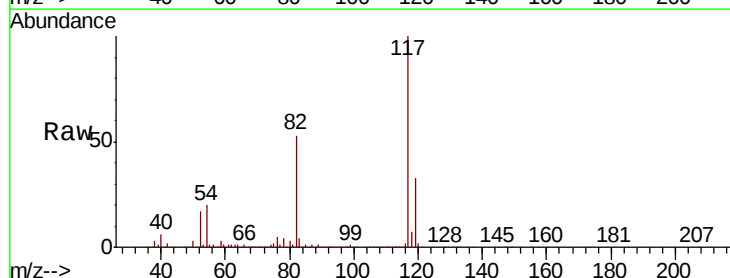
Tgt Ion: 117 Resp: 436138

Ion Ratio Lower Upper

117 100

82 53.3 42.2 63.4

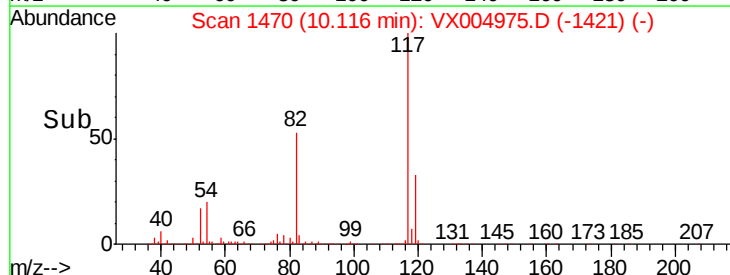
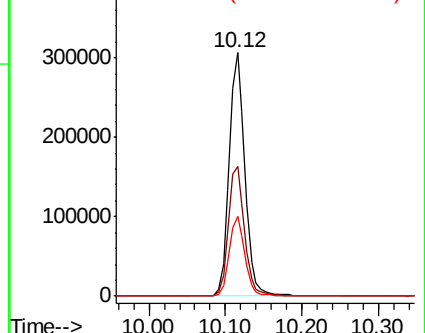
119 32.9 27.4 41.0

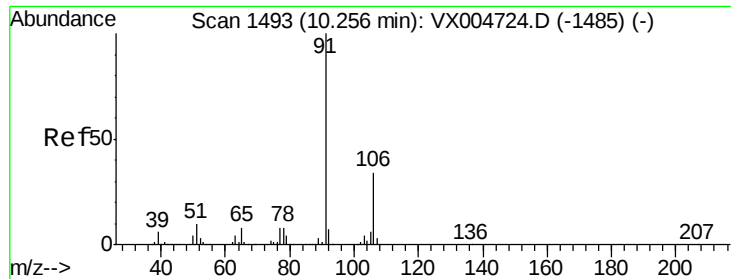


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#67

Ethyl Benzene

Concen: 2.345 ug/l

RT: 10.26 min Scan# 1493

Delta R.T. -0.00 min

Lab File: VX004975.D

Acq: 03 Oct 2018 17:59

Instrument :

MSVOA\_X

ClientSampleId :

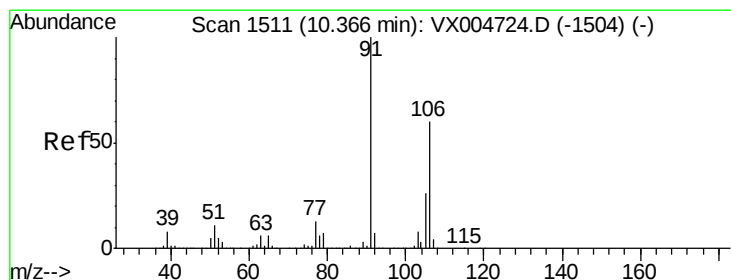
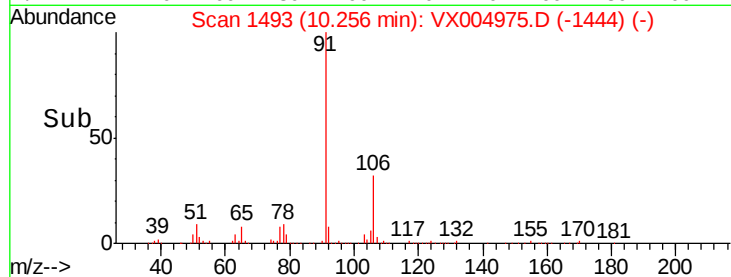
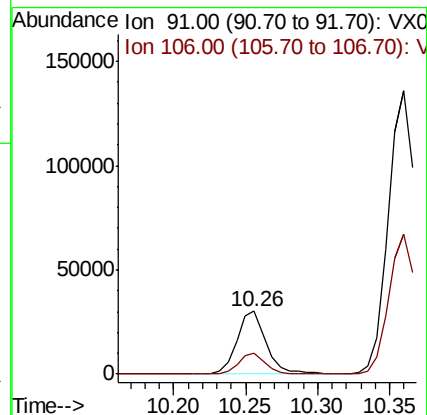
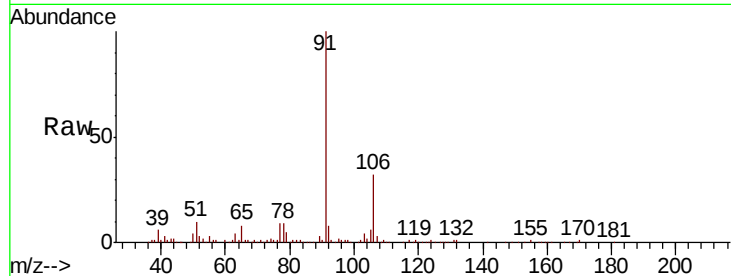
PB113446ZHE#01

Tot Ion: 91 Resp: 41640

Ion Ratio Lower Upper

91 100

106 32.4 26.9 40.3



#68

m/p-Xylenes

Concen: 13.342 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. -0.01 min

Lab File: VX004975.D

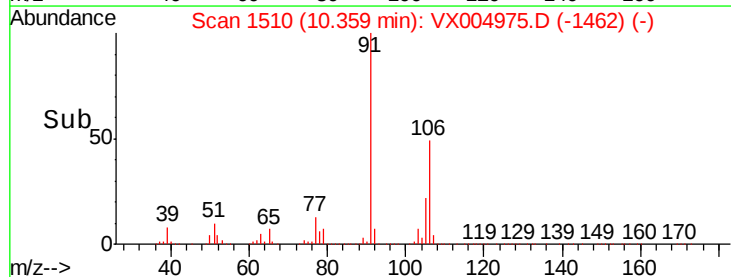
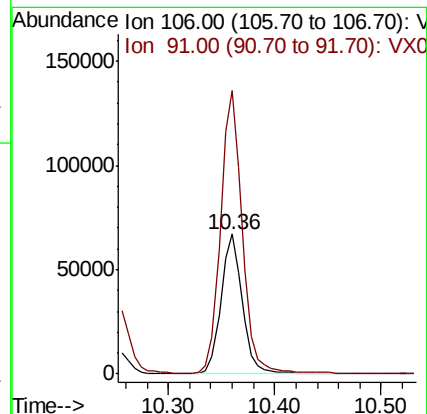
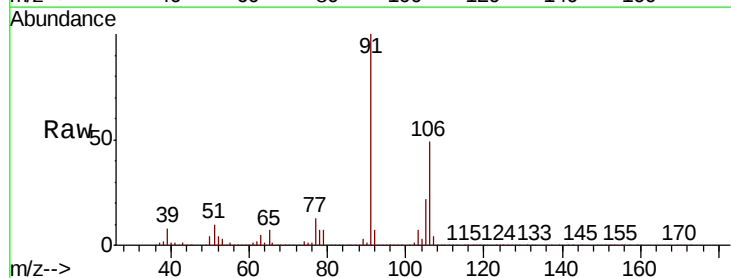
Acq: 03 Oct 2018 17:59

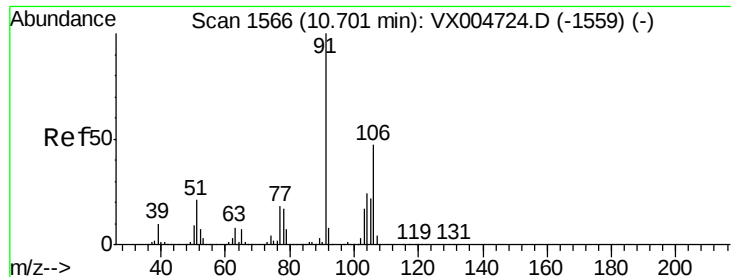
Tgt Ion: 106 Resp: 92573

Ion Ratio Lower Upper

106 100

91 205.0 157.5 236.3

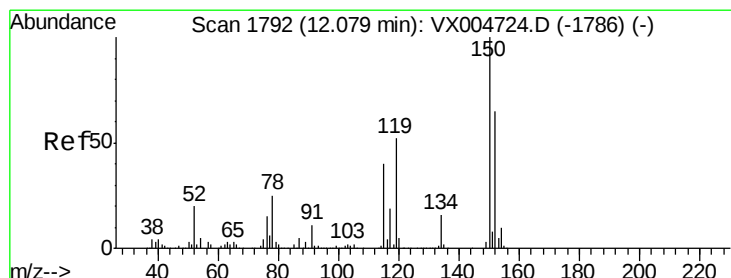
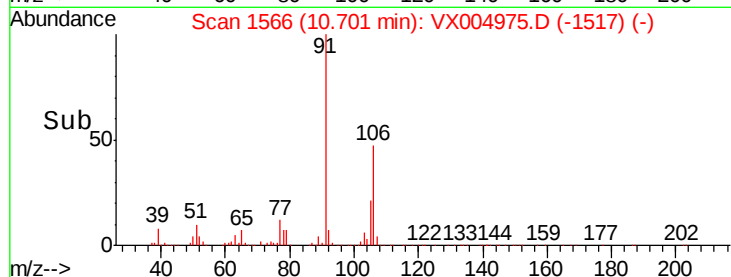
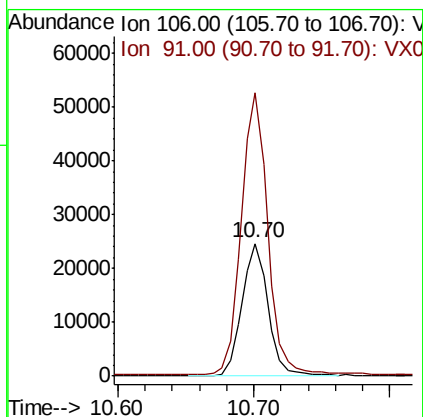
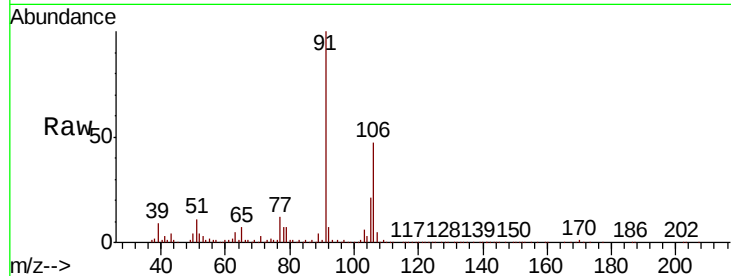




#69  
o-Xylene  
Concen: 5.163 ug/l  
RT: 10.70 min Scan# 1566  
Delta R.T. -0.00 min  
Lab File: VX004975.D  
Acq: 03 Oct 2018 17:59

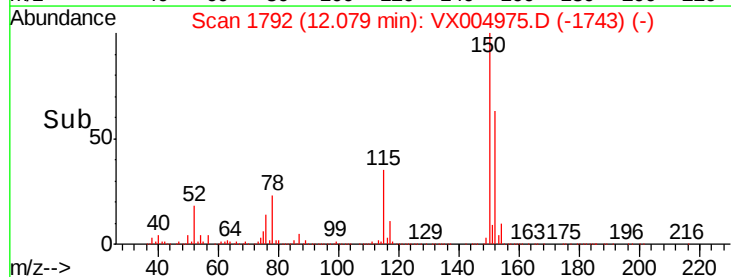
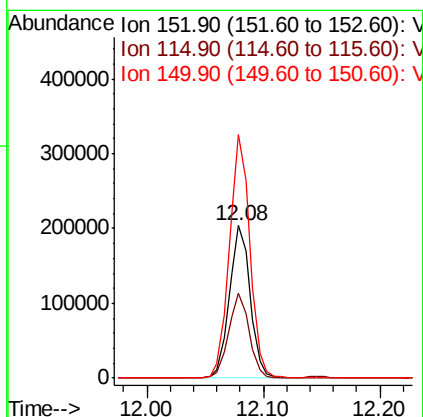
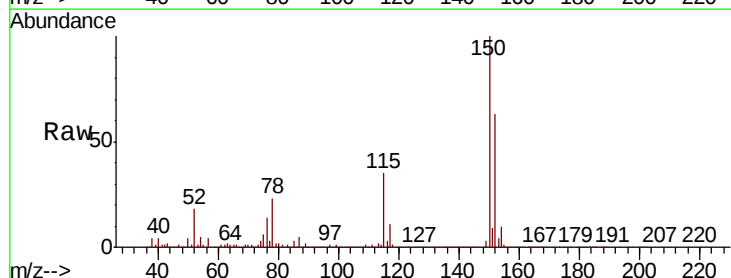
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB113446ZHE#01

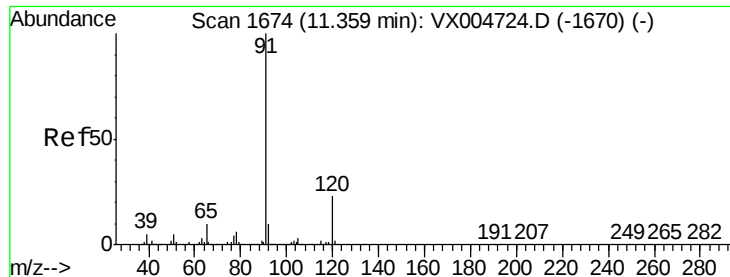
Tot Ion:106 Resp: 32903  
Ion Ratio Lower Upper  
106 100  
91 214.4 108.3 324.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. -0.00 min  
Lab File: VX004975.D  
Acq: 03 Oct 2018 17:59

Tgt Ion:152 Resp: 251847  
Ion Ratio Lower Upper  
152 100  
115 55.1 40.2 120.6  
150 157.8 0.0 351.0





#78

n-propylbenzene

Concen: 1.698 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. -0.00 min

Lab File: VX004975.D

Acq: 03 Oct 2018 17:59

Instrument :

MSVOA\_X

ClientSampleId :

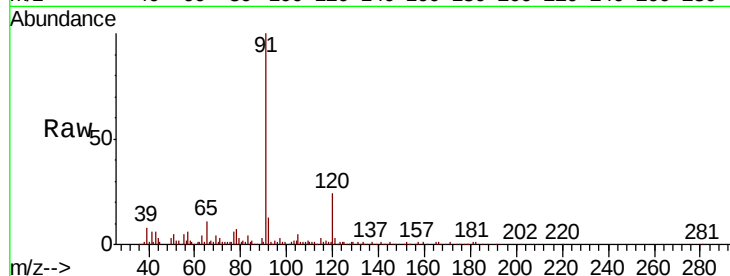
PB113446ZHE#01

Tot Ion: 91 Resp: 30926

Ion Ratio Lower Upper

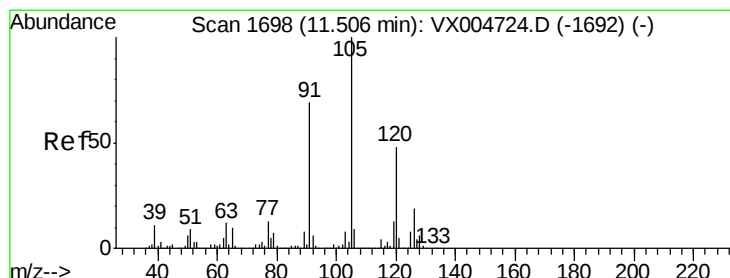
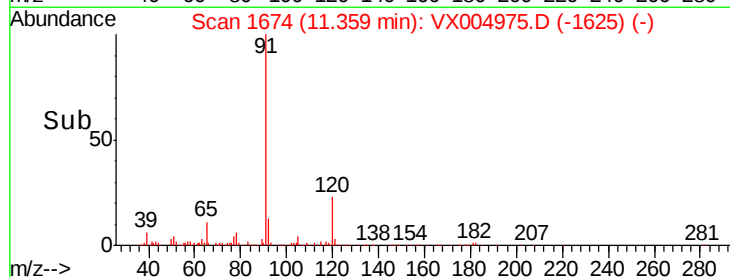
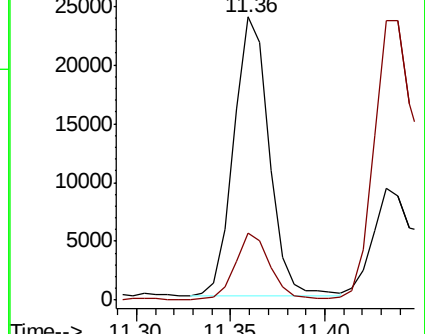
91 100

120 23.8 12.0 36.0



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V



#80

1,3,5-Trimethylbenzene

Concen: 3.707 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX004975.D

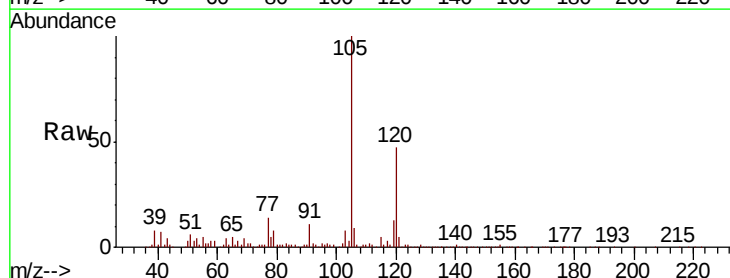
Acq: 03 Oct 2018 17:59

Tgt Ion:105 Resp: 56598

Ion Ratio Lower Upper

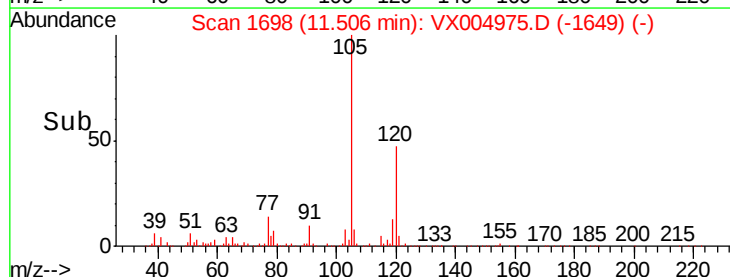
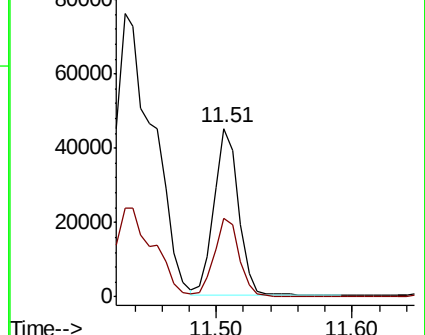
105 100

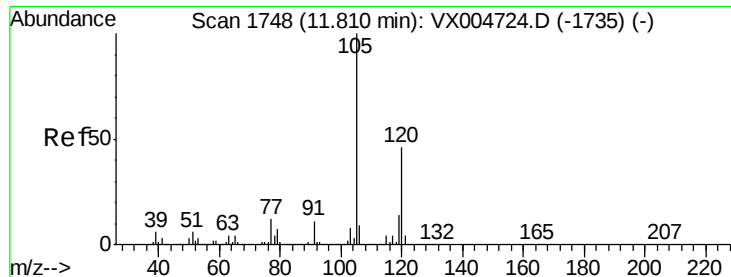
120 47.4 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#84

1,2,4-Trimethylbenzene

Concen: 13.906 ug/l

RT: 11.81 min Scan# 1748

Delta R.T. -0.00 min

Lab File: VX004975.D

Acq: 03 Oct 2018 17:59

Instrument :

MSVOA\_X

ClientSampleId :

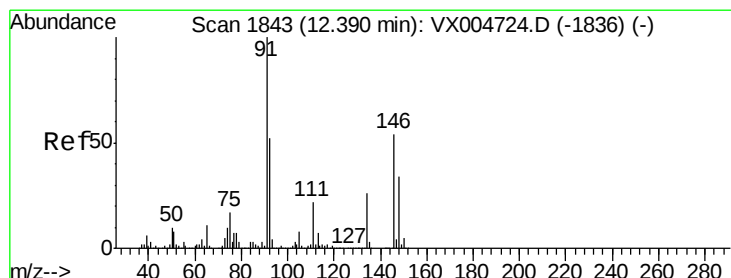
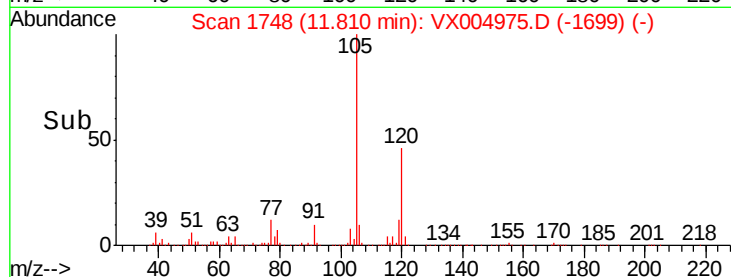
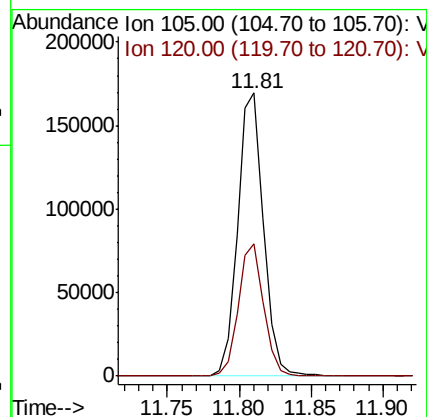
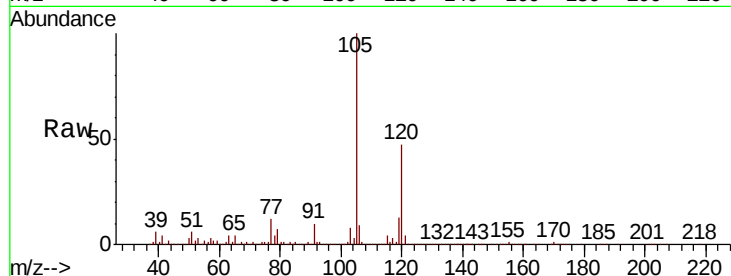
PB113446ZHE#01

Tot Ion:105 Resp: 210798

Ion Ratio Lower Upper

105 100

120 45.9 22.8 68.3



#89

n-Butylbenzene

Concen: 1.548 ug/l

RT: 12.38 min Scan# 1842

Delta R.T. -0.01 min

Lab File: VX004975.D

Acq: 03 Oct 2018 17:59

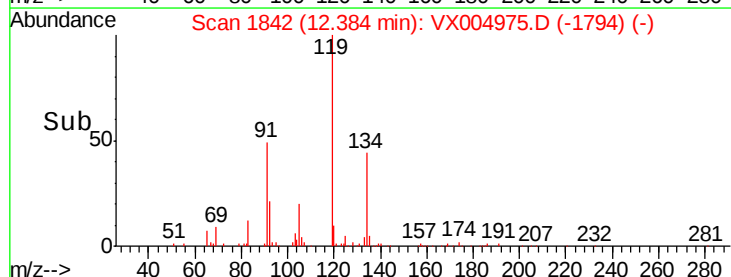
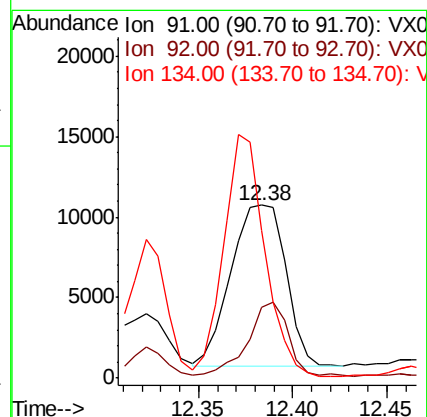
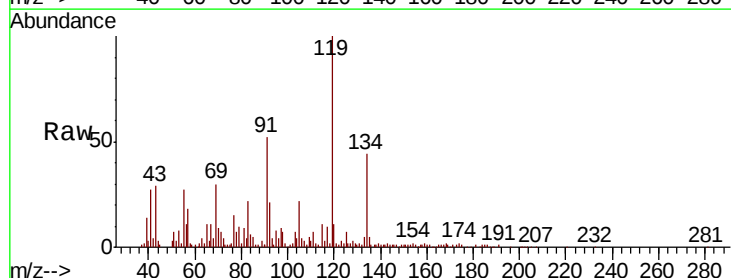
Tgt Ion: 91 Resp: 20274

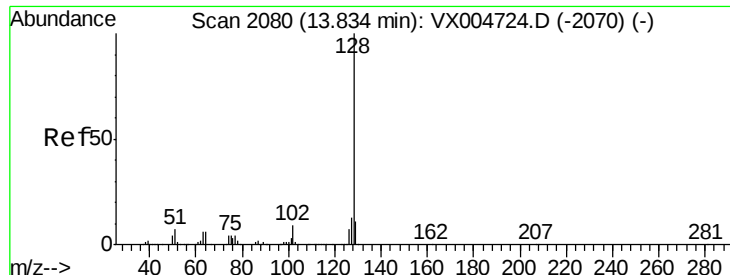
Ion Ratio Lower Upper

91 100

92 33.9 26.0 78.0

134 111.3 13.2 39.6#

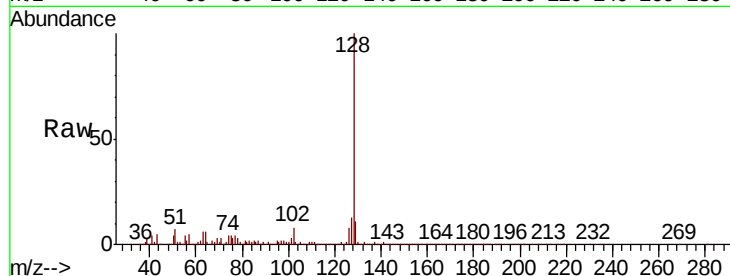




#95  
Naphthalene  
Concen: 11.929 ug/l  
RT: 13.83 min Scan# 2080  
Delta R.T. -0.00 min  
Lab File: VX004975.D  
Acq: 03 Oct 2018 17:59

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB113446ZHE#01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 12.8  | 10.4  | 15.6  |
| 129     | 11.2  | 8.7   | 13.1  |



Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

