

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072018\  
 Data File : VX003507.D  
 Acq On : 20 Jul 2018 14:20  
 Operator : JC/SP  
 Sample : J3620-04  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 CB-TCLP-11-2-0718

Quant Time: Jul 20 16:27:41 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X071918W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jul 19 17:09:44 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 290898   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 434281   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 408639   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 230503   | 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   | 174405   | 50.65 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 101.30% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 158753   | 47.99 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 95.98%  |          |
| 50) Toluene-d8              | 8.72  | 98   | 611192   | 49.16 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 98.32%  |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 211571   | 46.63 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 93.26%  |          |

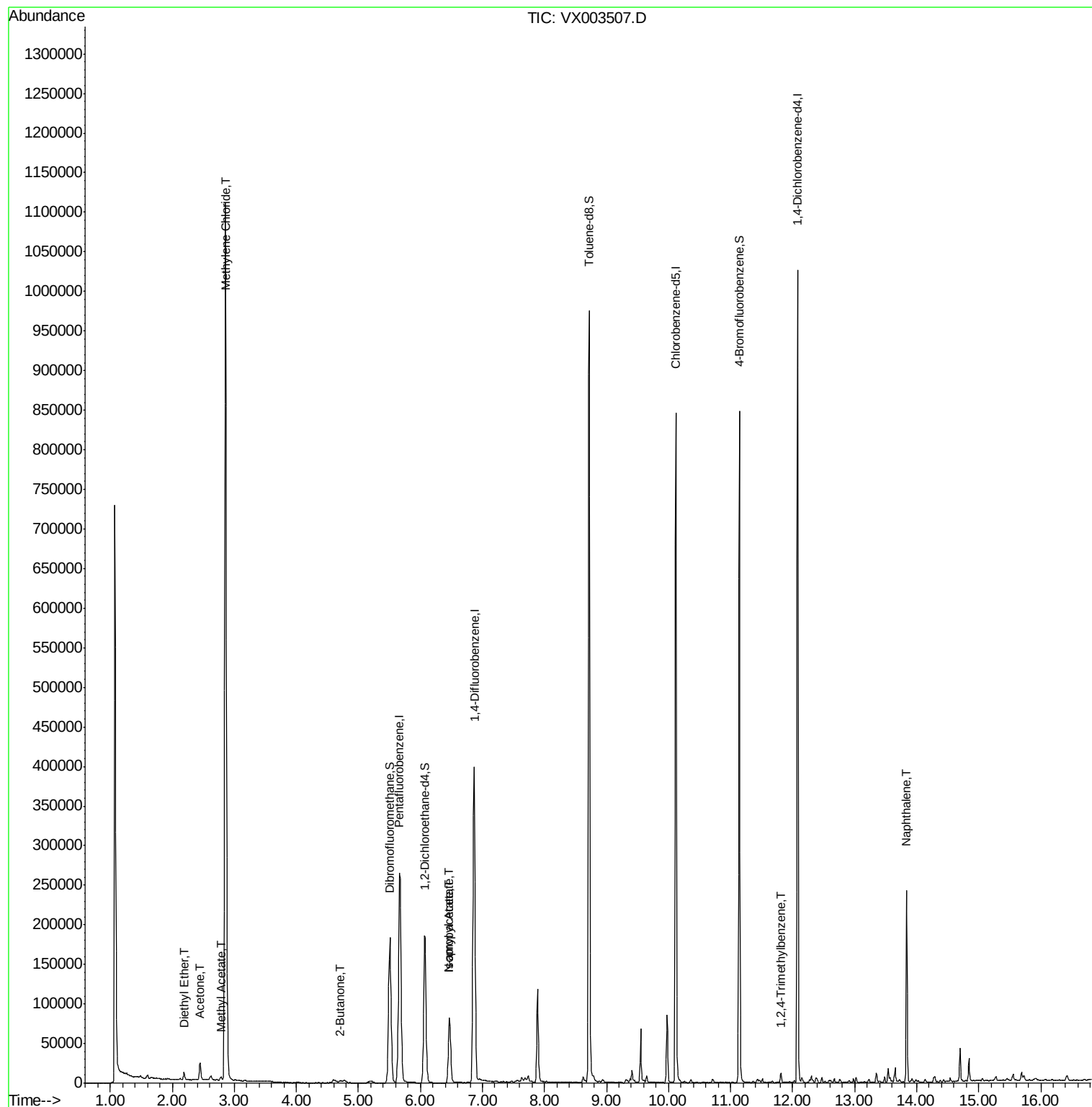
| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 8) Diethyl Ether           | 2.19  | 74   | 3133     | 1.48   | ug/l   | 88     |
| 16) Acetone                | 2.45  | 43   | 23031    | 17.71  | ug/l # | 87     |
| 18) Methyl Acetate         | 2.78  | 43   | 5468     | 1.33   | ug/l # | 89     |
| 20) Methylene Chloride     | 2.86  | 84   | 556760   | 177.27 | ug/l   | 90     |
| 25) 2-Butanone             | 4.71  | 43   | 4792     | 2.20   | ug/l # | 89     |
| 43) Isopropyl Acetate      | 6.47  | 43   | 109136   | 15.46  | ug/l # | 93     |
| 74) N-amyl acetate         | 6.47  | 43   | 109136   | 16.12  | ug/l # | 92     |
| 84) 1,2,4-Trimethylbenzene | 11.81 | 105  | 5105     | 0.38   | ug/l   | 99     |
| 95) Naphthalene            | 13.83 | 128  | 156008   | 9.75   | ug/l   | 99     |

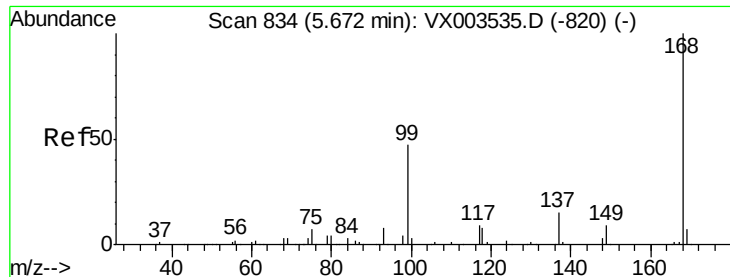
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX072018\  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X071918W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jul 19 17:09:44 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.01 min

Lab File: VX003507.D

Acq: 20 Jul 2018 14:20

Instrument :

MSVOA\_X

ClientSampleId :

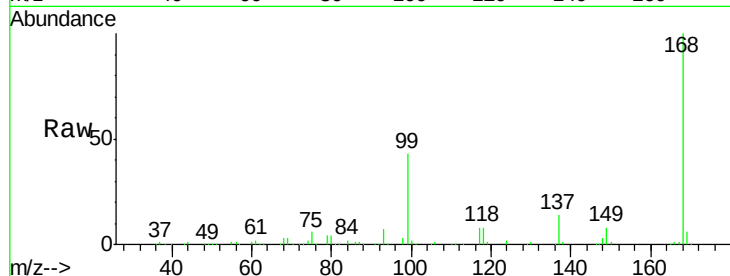
CB-TCLP-11-2-0718

Tot Ion:168 Resp: 290898

Ion Ratio Lower Upper

168 100

99 42.7 39.3 58.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

120000

100000

80000

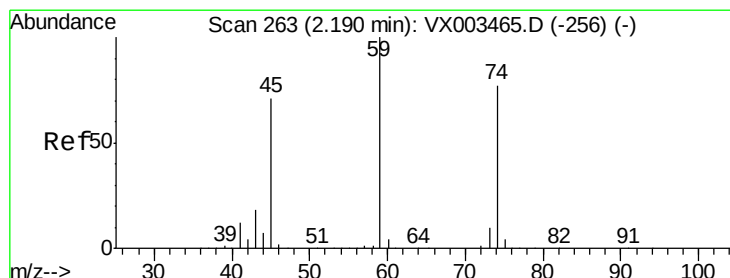
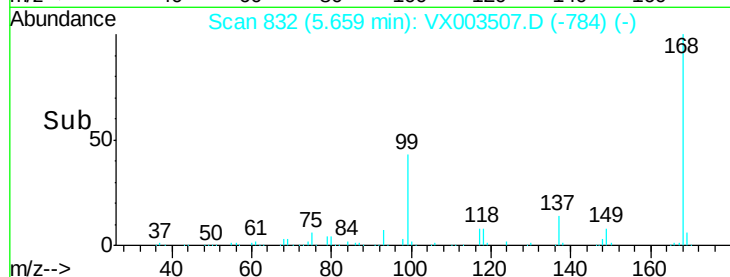
60000

40000

20000

0

Time-->



#8

Diethyl Ether

Concen: 1.48 ug/l

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX003507.D

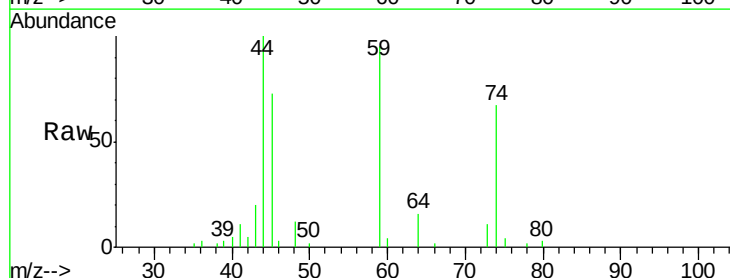
Acq: 20 Jul 2018 14:20

Tgt Ion: 74 Resp: 3133

Ion Ratio Lower Upper

74 100

45 94.3 53.1 159.4



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

2500

2000

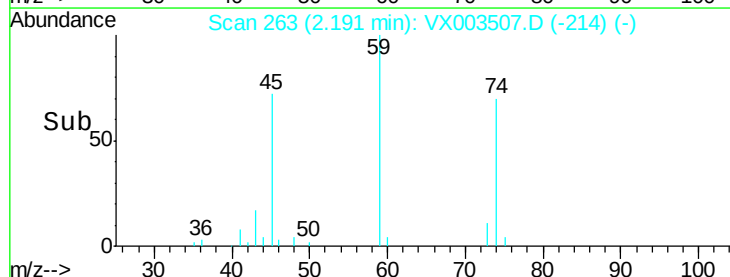
1500

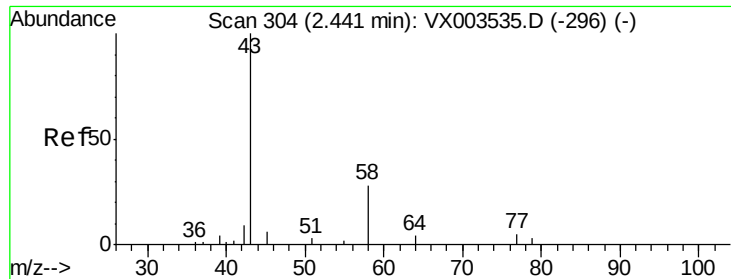
1000

500

0

Time-->





#16

Acetone

Concen: 17.71 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003507.D

Acq: 20 Jul 2018 14:20

Instrument :

MSVOA\_X

ClientSampleId :

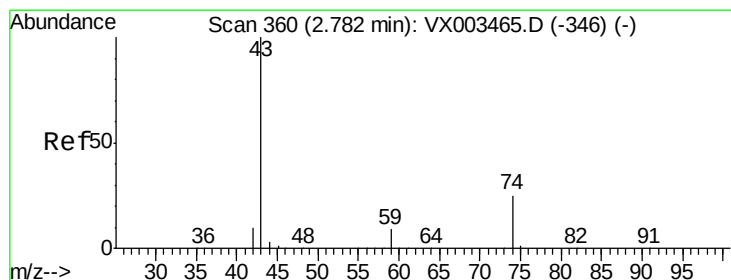
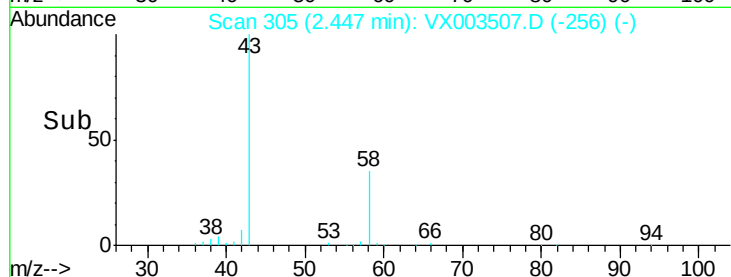
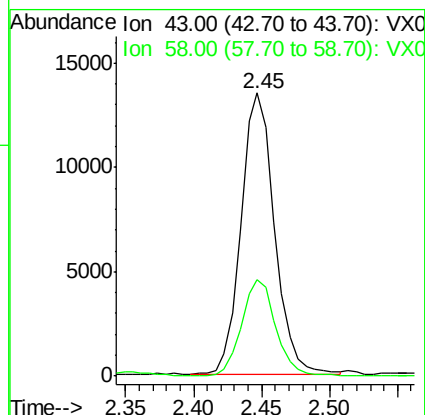
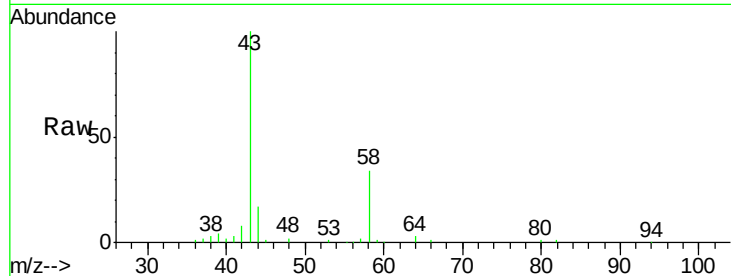
CB-TCLP-11-2-0718

Tot Ion: 43 Resp: 23031

Ion Ratio Lower Upper

43 100

58 34.4 22.1 33.1#



#18

Methyl Acetate

Concen: 1.33 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX003507.D

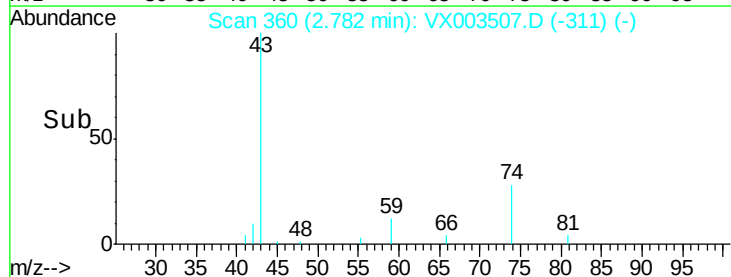
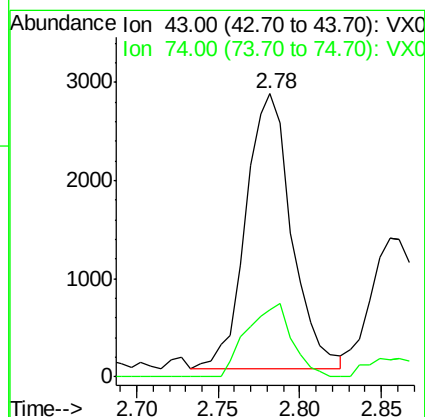
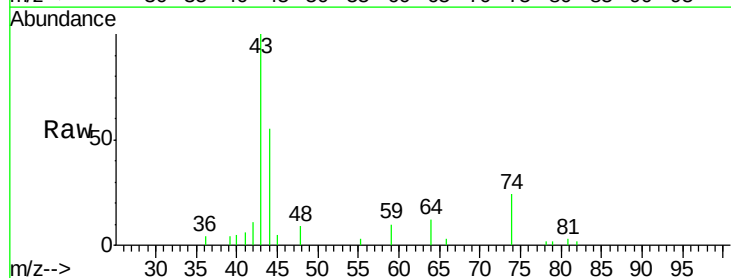
Acq: 20 Jul 2018 14:20

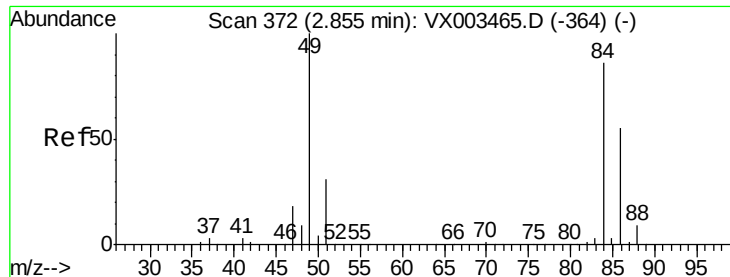
Tgt Ion: 43 Resp: 5468

Ion Ratio Lower Upper

43 100

74 26.1 16.7 25.1#



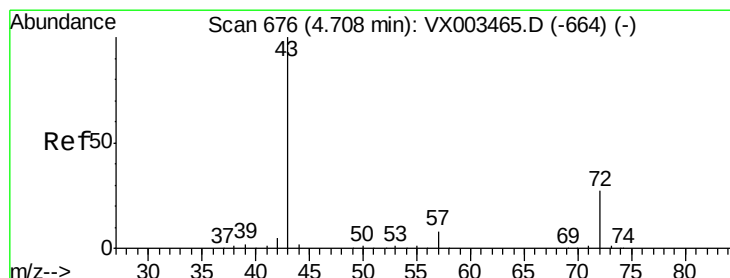
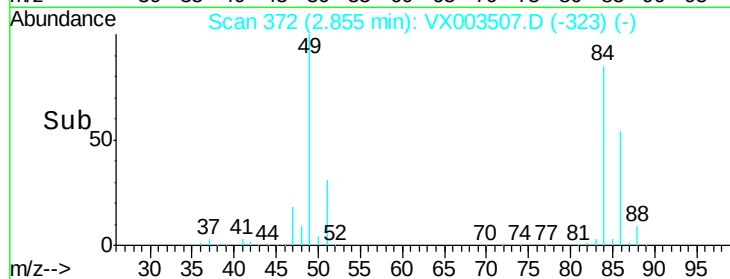
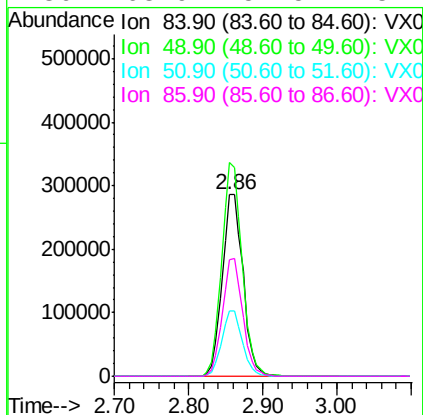
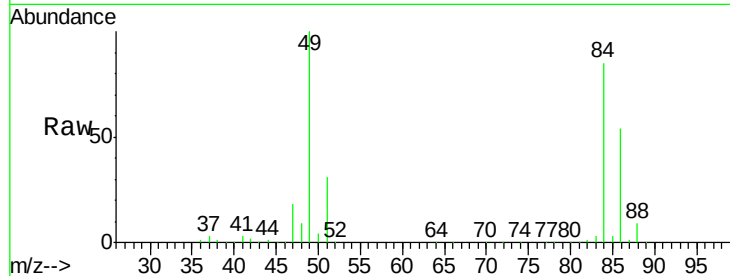


#20  
Methvlene Chloride  
Concen: 177.27 ug/l  
RT: 2.86 min Scan# 372  
Delta R.T. 0.00 min  
Lab File: VX003507.D  
Acq: 20 Jul 2018 14:20

Instrument :  
MSVOA\_X  
ClientSampleId :  
CB-TCLP-11-2-0718

Tot Ion: 84 Resp: 556760

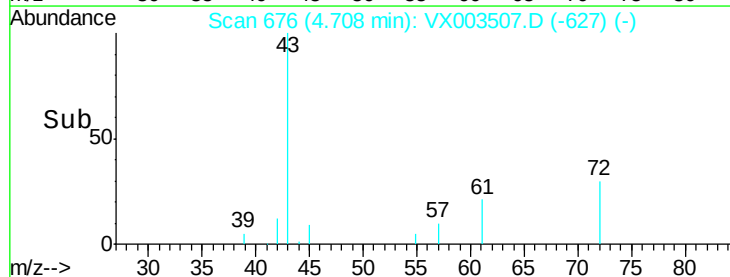
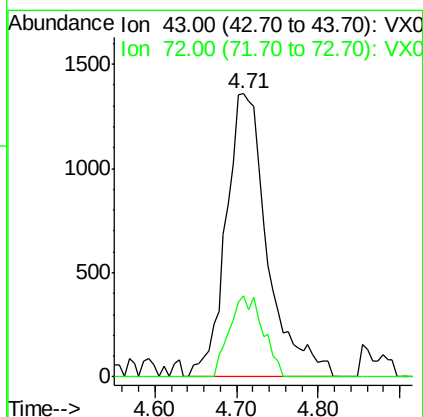
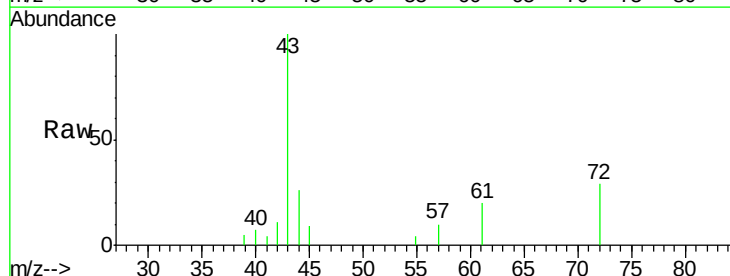
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 117.6 | 107.8 | 161.6 |
| 51  | 36.3  | 32.8  | 49.2  |
| 86  | 63.9  | 52.5  | 78.7  |

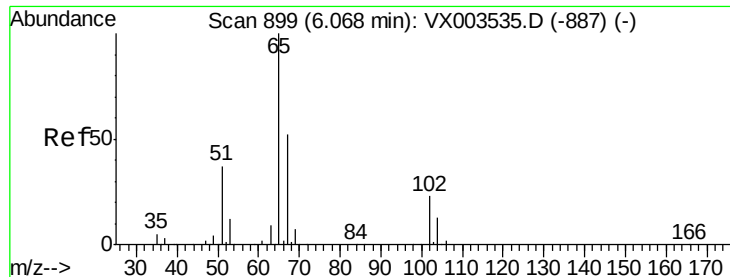


#25  
2-Butanone  
Concen: 2.20 ug/l  
RT: 4.71 min Scan# 676  
Delta R.T. 0.00 min  
Lab File: VX003507.D  
Acq: 20 Jul 2018 14:20

Tgt Ion: 43 Resp: 4792

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 28.6  | 18.5  | 27.7# |

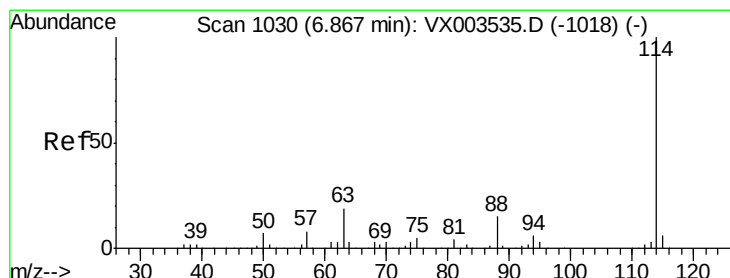
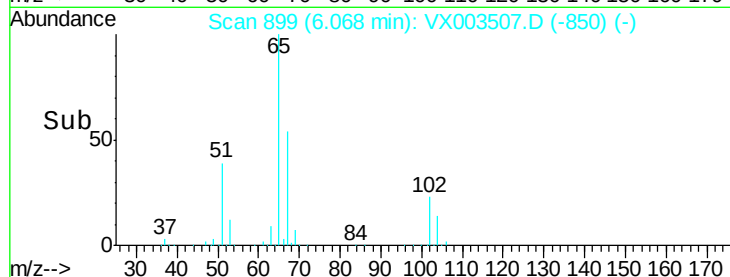
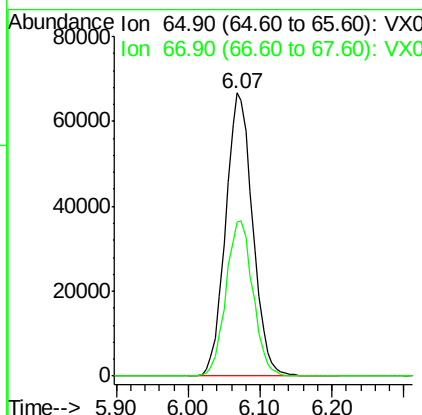
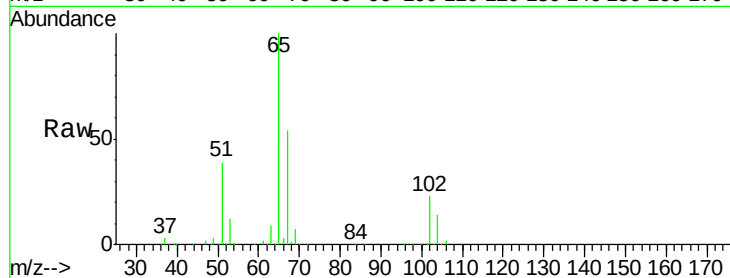




#33  
 1,2-Dichloroethane-d4  
 Concen: 50.65 ug/l  
 RT: 6.07 min Scan# 899  
 Delta R.T. 0.00 min  
 Lab File: VX003507.D  
 Acq: 20 Jul 2018 14:20

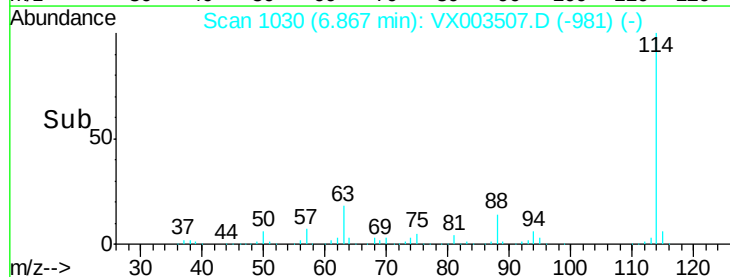
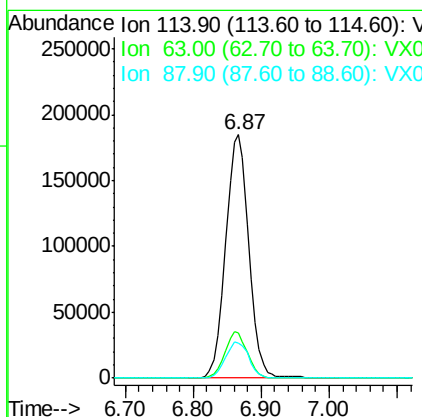
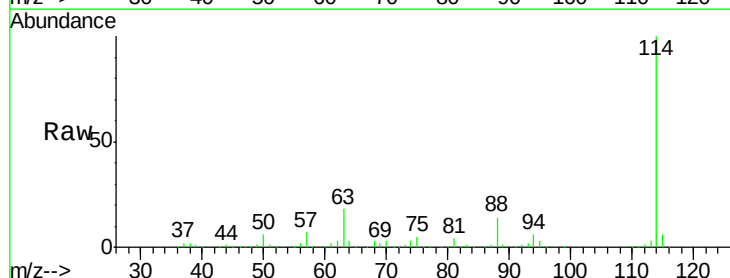
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 CB-TCLP-11-2-0718

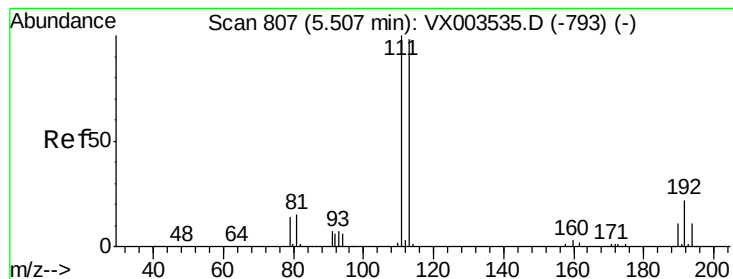
Tot Ion: 65 Resp: 174405  
 Ion Ratio Lower Upper  
 65 100  
 67 54.8 0.0 102.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.87 min Scan# 1030  
 Delta R.T. 0.00 min  
 Lab File: VX003507.D  
 Acq: 20 Jul 2018 14:20

Tgt Ion: 114 Resp: 434281  
 Ion Ratio Lower Upper  
 114 100  
 63 18.3 0.0 41.4  
 88 14.2 0.0 30.0





#35

Dibromofluoromethane

Concen: 47.99 ug/l

RT: 5.51 min Scan# 807

Delta R.T. 0.00 min

Lab File: VX003507.D

Acq: 20 Jul 2018 14:20

Instrument :

MSVOA\_X

ClientSampleId :

CB-TCLP-11-2-0718

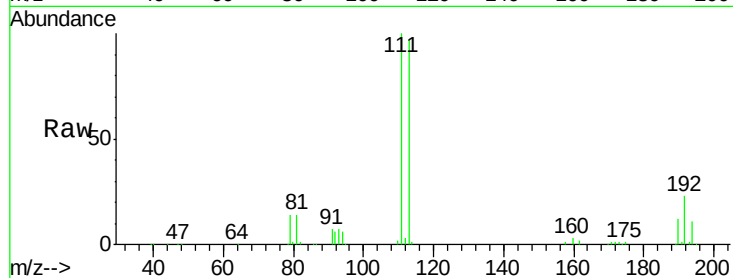
Tot Ion:113 Resp: 158753

Ion Ratio Lower Upper

113 100

111 102.8 81.4 122.0

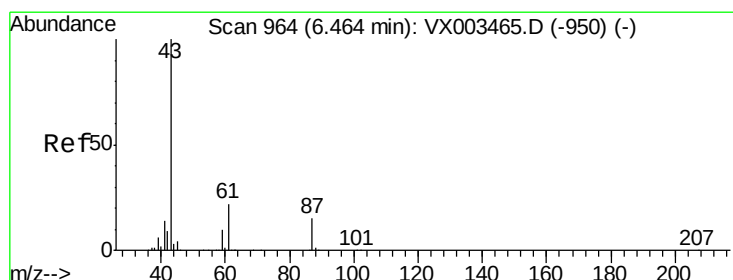
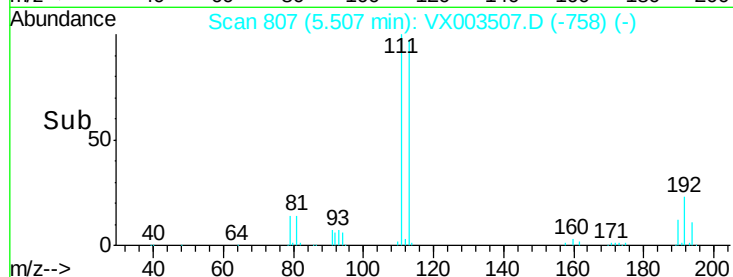
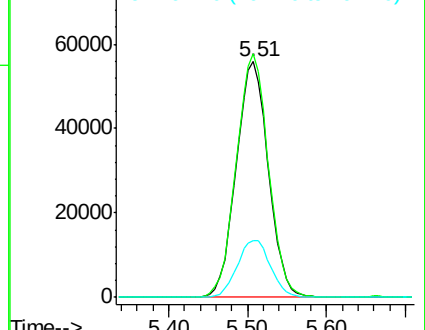
192 25.0 19.1 28.7



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



#43

Isopropyl Acetate

Concen: 15.46 ug/l

RT: 6.47 min Scan# 965

Delta R.T. 0.01 min

Lab File: VX003507.D

Acq: 20 Jul 2018 14:20

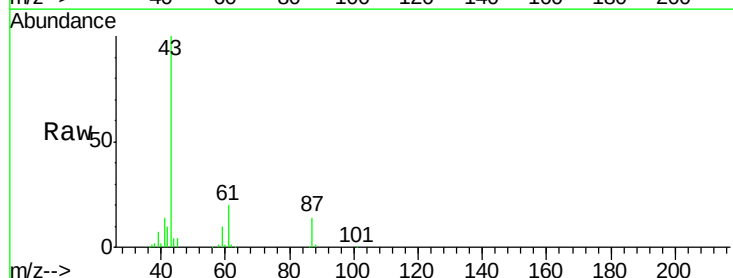
Tgt Ion: 43 Resp: 109136

Ion Ratio Lower Upper

43 100

61 21.8 14.4 21.6#

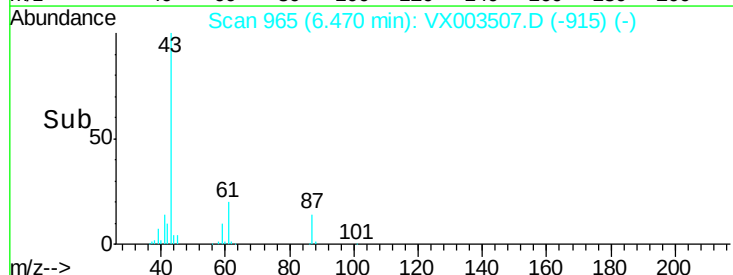
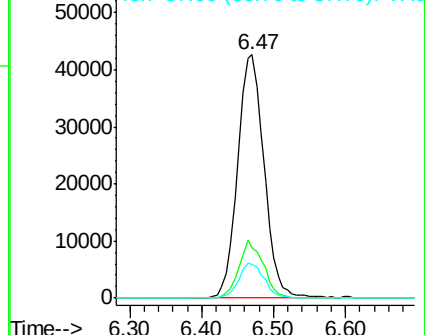
87 13.8 9.5 14.3

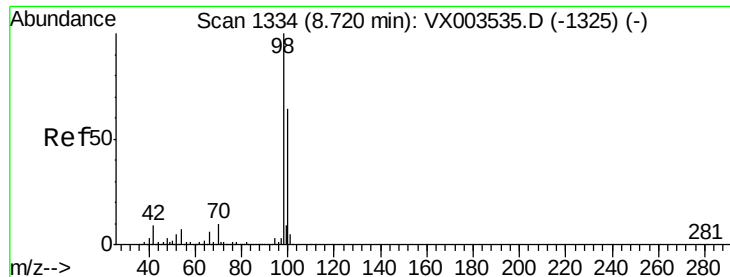


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#50

Toluene-d8

Concen: 49.16 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003507.D

Acq: 20 Jul 2018 14:20

Instrument :

MSVOA\_X

ClientSampleId :

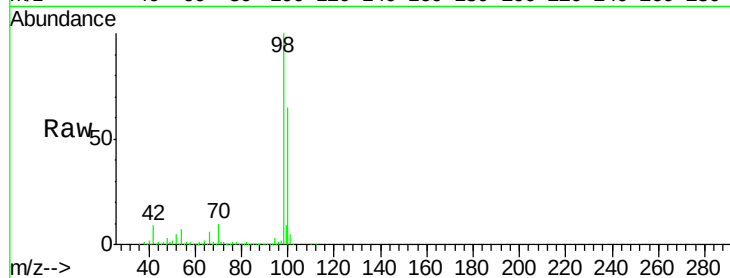
CB-TCLP-11-2-0718

Tot Ion: 98 Resp: 611192

Ion Ratio Lower Upper

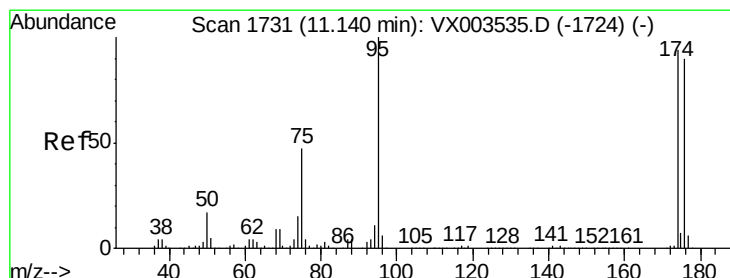
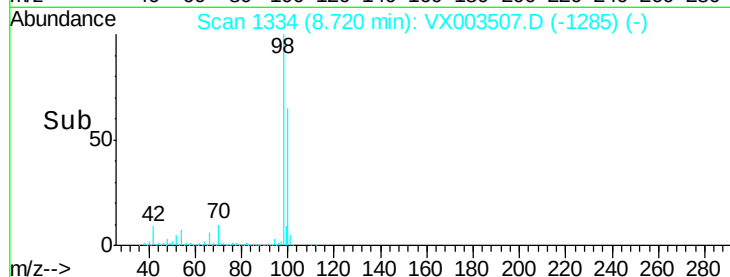
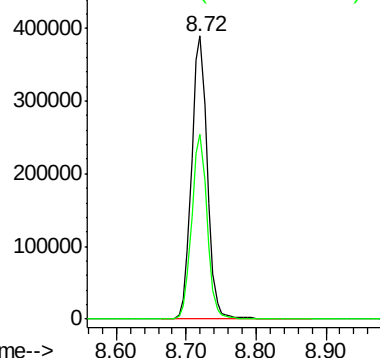
98 100

100 64.1 50.9 76.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 46.63 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003507.D

Acq: 20 Jul 2018 14:20

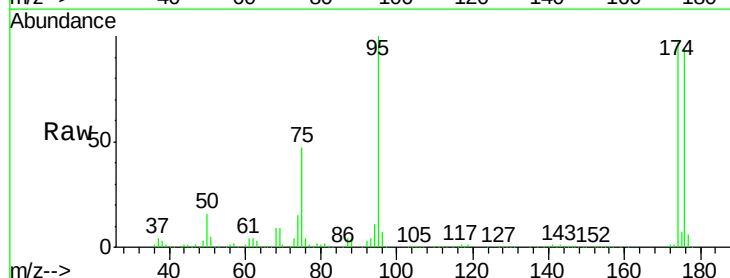
Tgt Ion: 95 Resp: 211571

Ion Ratio Lower Upper

95 100

174 98.4 0.0 187.4

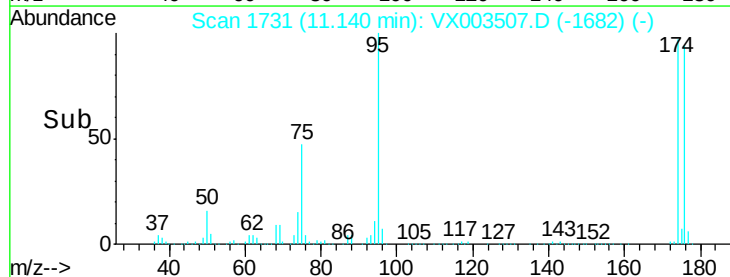
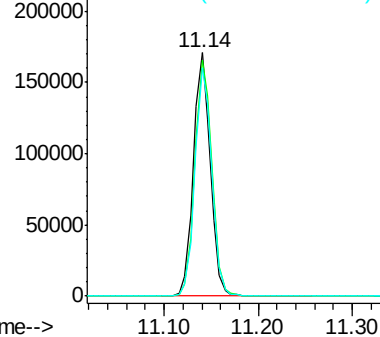
176 94.1 0.0 181.0



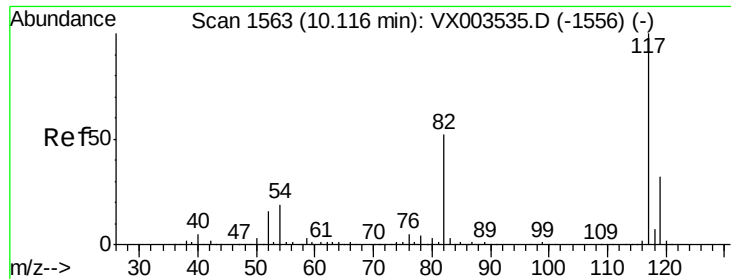
Abundance Ion 94.90 (94.60 to 95.60): VX0

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# 1563

Delta R.T. 0.00 min

Lab File: VX003507.D

Acq: 20 Jul 2018 14:20

Instrument :

MSVOA\_X

ClientSampleId :

CB-TCLP-11-2-0718

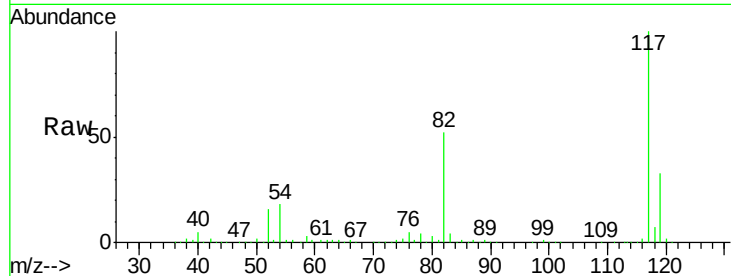
Tot Ion:117 Resp: 408639

Ion Ratio Lower Upper

117 100

82 52.4 45.0 67.4

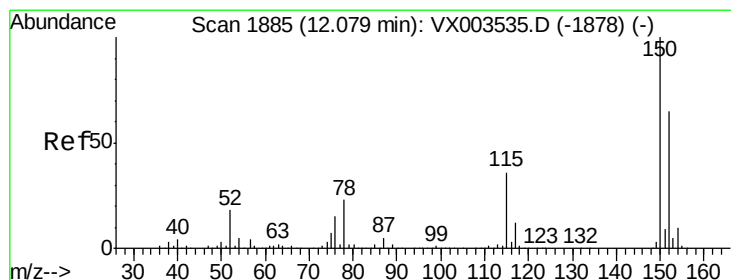
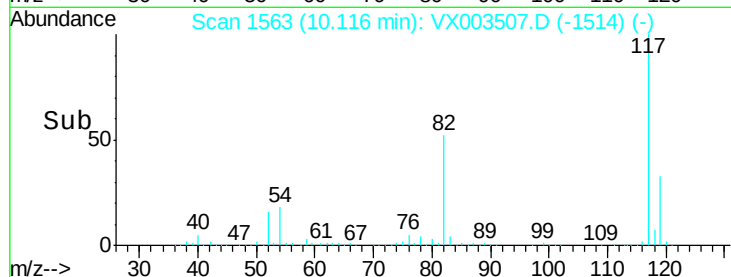
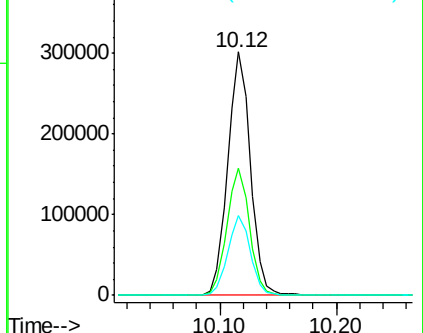
119 32.5 25.8 38.6



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: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX003507.D

Acq: 20 Jul 2018 14:20

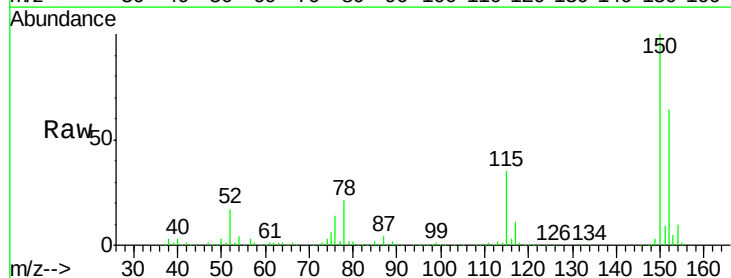
Tgt Ion:152 Resp: 230503

Ion Ratio Lower Upper

152 100

115 53.3 40.1 120.2

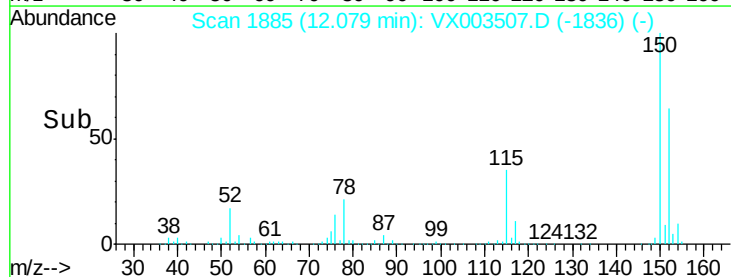
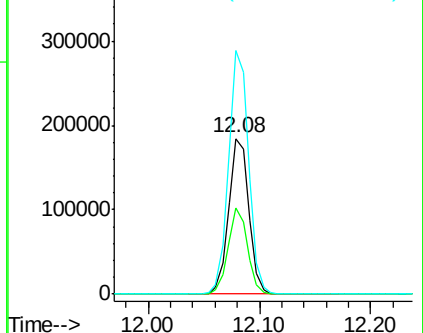
150 155.5 0.0 347.2

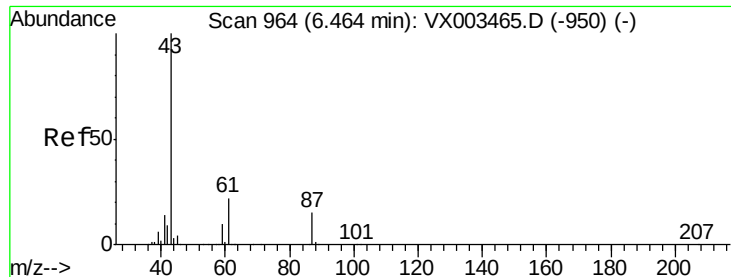


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 16.12 ug/l

RT: 6.47 min Scan# 965

Delta R.T. 0.01 min

Lab File: VX003507.D

Acq: 20 Jul 2018 14:20

Instrument :

MSVOA\_X

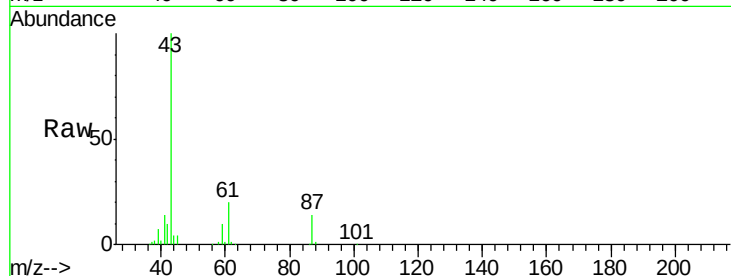
ClientSampleId :

CB-TCLP-11-2-0718

Tot Ion: 43 Resp: 109136

Ion Ratio Lower Upper

|    |      |      |      |
|----|------|------|------|
| 43 | 100  |      |      |
| 70 | 0.0  | 0.0  | 0.0  |
| 55 | 0.0  | 0.0  | 0.0  |
| 61 | 21.8 | 14.4 | 21.6 |

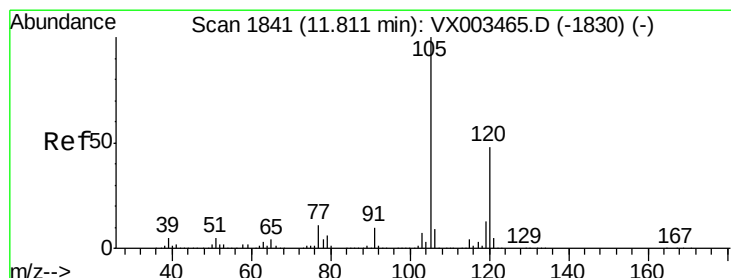
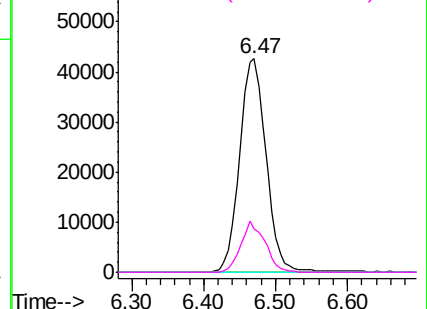
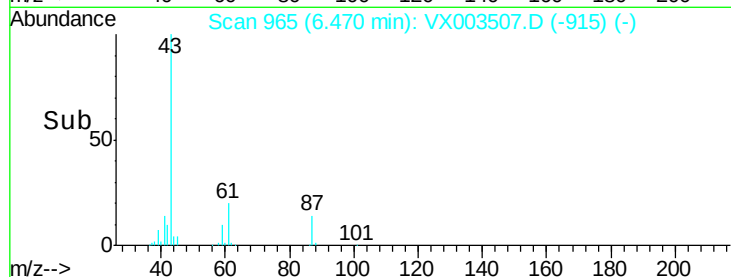


Abundance Ion 43.00 (42.70 to 43.70): VX0

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



#84

1,2,4-Trimethylbenzene

Concen: 0.38 ug/l

RT: 11.81 min Scan# 1841

Delta R.T. 0.00 min

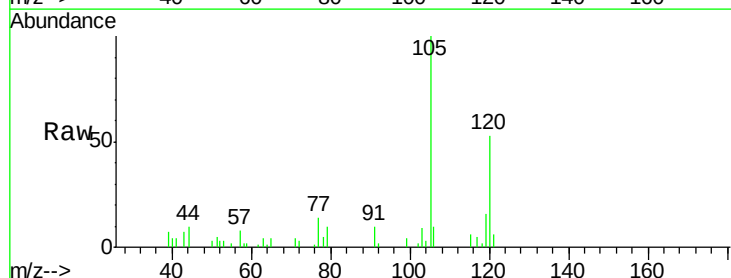
Lab File: VX003507.D

Acq: 20 Jul 2018 14:20

Tgt Ion: 105 Resp: 5105

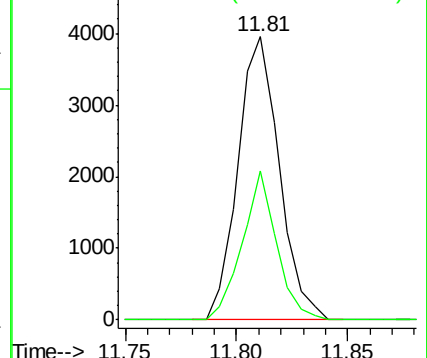
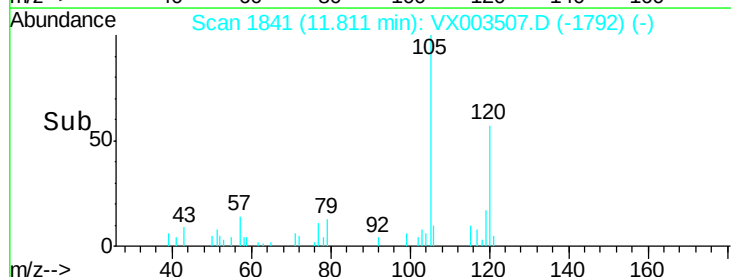
Ion Ratio Lower Upper

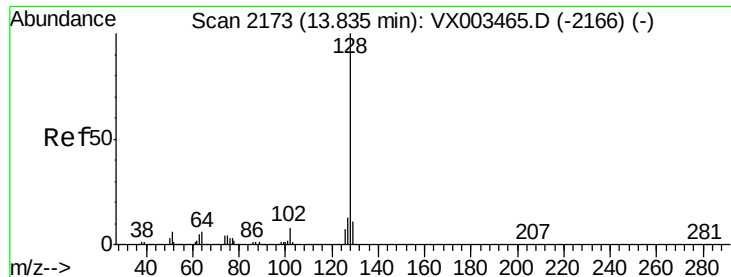
|     |      |      |      |
|-----|------|------|------|
| 105 | 100  |      |      |
| 120 | 43.9 | 22.3 | 66.8 |



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95  
 Naphthalene  
 Concen: 9.75 ug/l  
 RT: 13.83 min Scan# 2173  
 Delta R.T. 0.00 min  
 Lab File: VX003507.D  
 Acq: 20 Jul 2018 14:20

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 CB-TCLP-11-2-0718

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 12.5  | 10.4  | 15.6  |
| 129     | 11.0  | 8.6   | 13.0  |

