

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX081018\  
 Data File : VX003983.D  
 Acq On : 10 Aug 2018 18:03  
 Operator : JC/MD  
 Sample : J4387-11  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FL-TB-2018-5

Quant Time: Aug 11 01:46:24 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X080618W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 07 07:45:48 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 310854   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 473546   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 434418   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 240220   | 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   | 215461   | 52.29  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 104.58% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 178983   | 49.89  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 99.78%  |          |
| 50) Toluene-d8              | 8.72  | 98   | 658687   | 47.21  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 94.42%  |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 228092   | 50.53  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 101.06% |          |

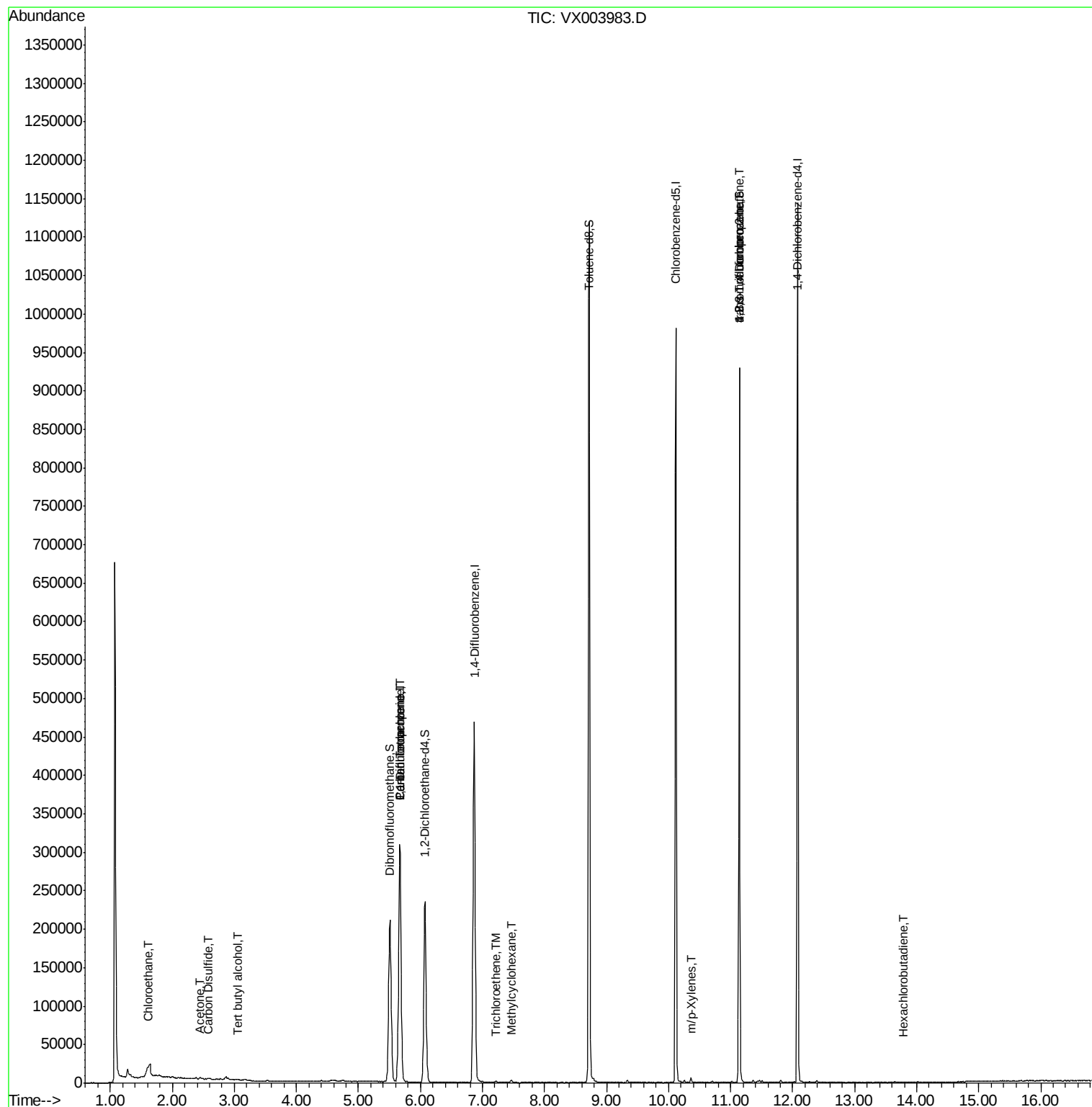
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.64  | 94   | 1023     | Below Cal |        | 93     |
| 6) Chloroethane                | 1.61  | 64   | 16147    | 5.90      | ug/l # | 53     |
| 11) Tert butyl alcohol         | 3.06  | 59   | 933      | 0.94      | ug/l # | 79     |
| 13) Acrolein                   | 2.30  | 56   | 30       | Below Cal | #      | 1      |
| 16) Acetone                    | 2.45  | 43   | 1244     | 0.51      | ug/l   | 93     |
| 17) Carbon Disulfide           | 2.58  | 76   | 1062     | 0.55      | ug/l # | 95     |
| 20) Methylene Chloride         | 2.86  | 84   | 1769     | Below Cal | #      | 91     |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 21249    | 4.01      | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 27556    | 5.46      | ug/l # | 15     |
| 39) Methylcyclohexane          | 7.47  | 83   | 1396     | 0.22      | ug/l # | 77     |
| 44) Trichloroethene            | 7.22  | 130  | 979      | 0.22      | ug/l   | 86     |
| 68) m/p-Xylenes                | 10.36 | 106  | 1575     | 0.22      | ug/l   | 94     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 109711   | 20.68     | ug/l # | 36     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 109711   | 55.97     | ug/l # | 9      |
| 88) 1,4-Dichlorobenzene        | 12.10 | 146  | 628      | Below Cal | #      | 1      |
| 94) Hexachlorobutadiene        | 13.79 | 225  | 251      | 0.52      | ug/l   | 74     |

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

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QLast Update : Tue Aug 07 07:45:48 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.00 min

Lab File: VX003983.D

Acq: 10 Aug 2018 18:03

Instrument :

MSVOA\_X

ClientSampleId :

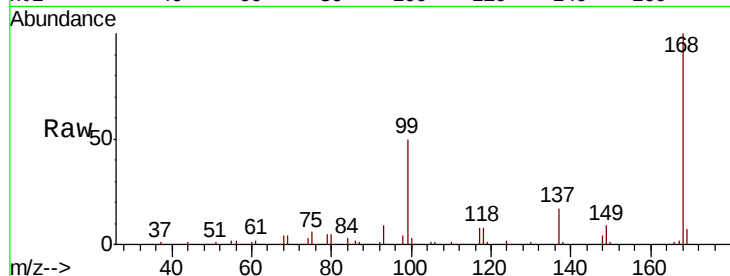
FL-TB-2018-5

Tot Ion:168 Resp: 310854

Ion Ratio Lower Upper

168 100

99 50.1 40.1 60.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

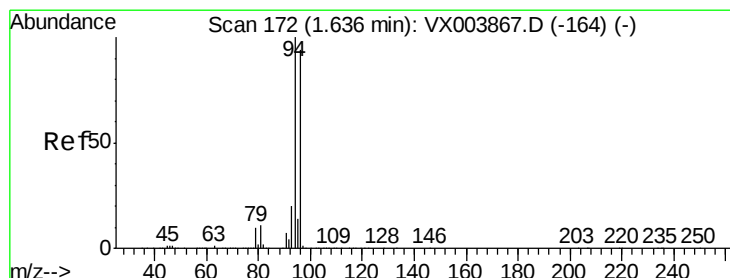
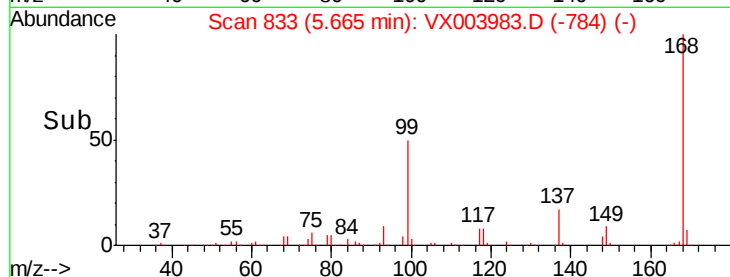
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 173

Delta R.T. 0.01 min

Lab File: VX003983.D

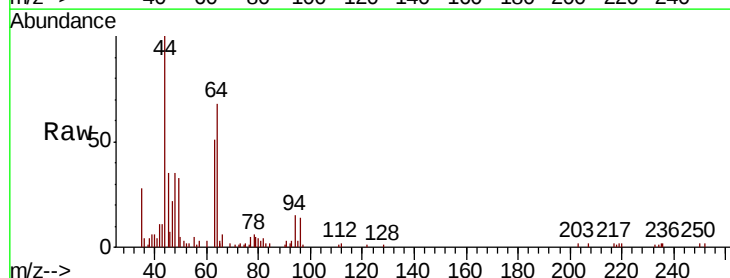
Acq: 10 Aug 2018 18:03

Tgt Ion: 94 Resp: 1023

Ion Ratio Lower Upper

94 100

96 101.0 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

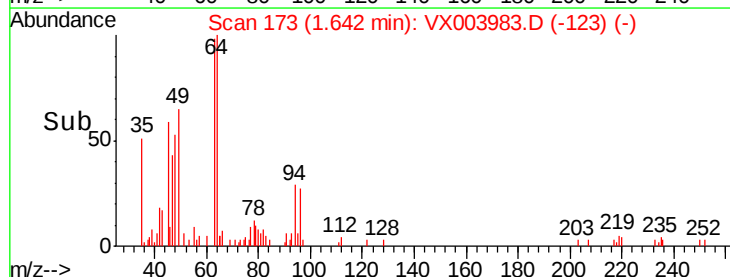
600

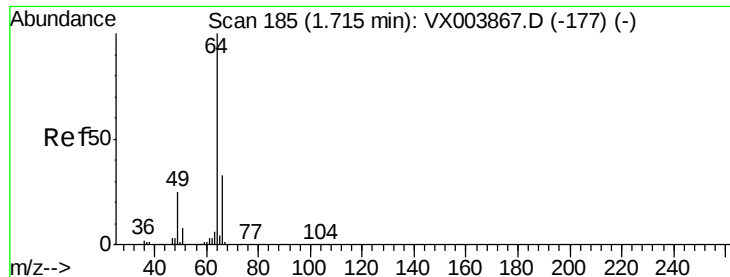
400

200

0

Time--> 1.60 1.65 1.70





#6

Chloroethane

Concen: 5.90 ug/l

RT: 1.61 min Scan# 168

Delta R.T. -0.10 min

Lab File: VX003983.D

Acq: 10 Aug 2018 18:03

Instrument :

MSVOA\_X

ClientSampleId :

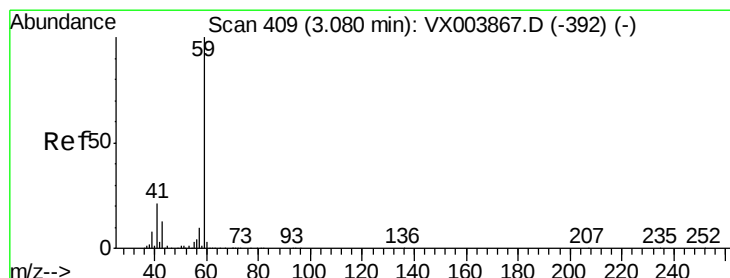
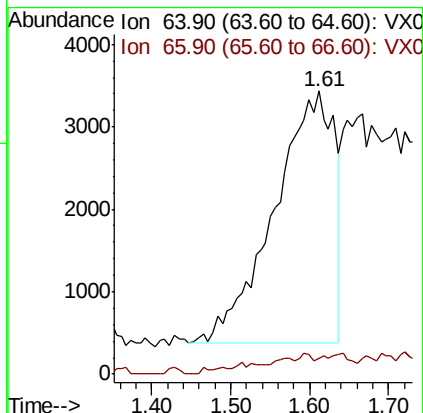
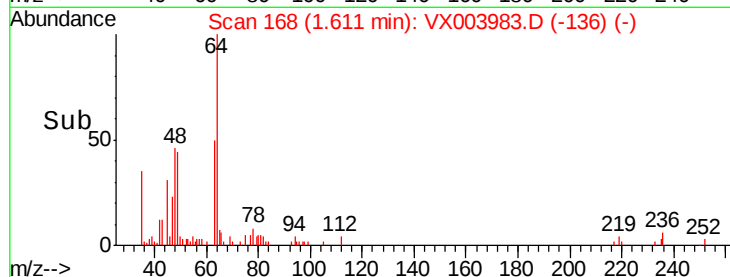
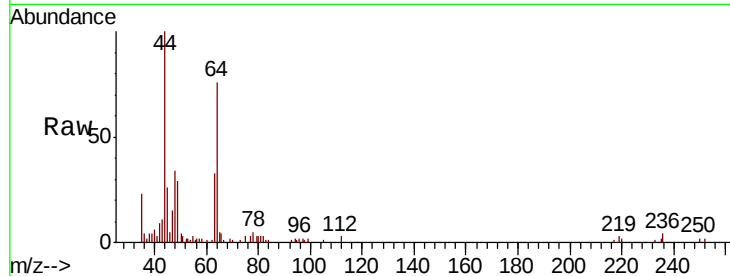
FL-TB-2018-5

Tot Ion: 64 Resp: 16147

Ion Ratio Lower Upper

64 100

66 6.3 26.5 39.7#



#11

Tert butyl alcohol

Concen: 0.94 ug/l

RT: 3.06 min Scan# 405

Delta R.T. -0.02 min

Lab File: VX003983.D

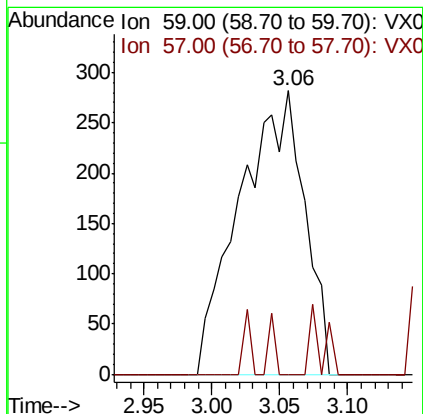
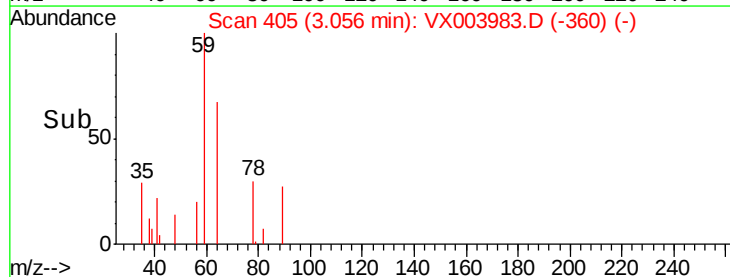
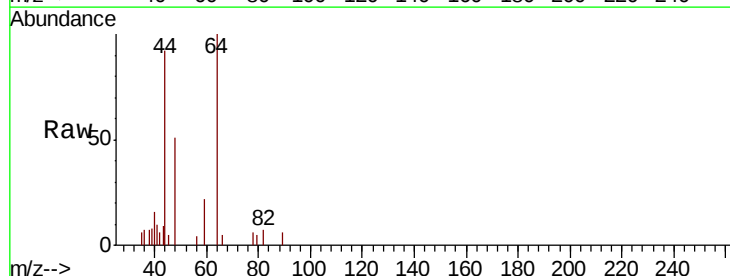
Acq: 10 Aug 2018 18:03

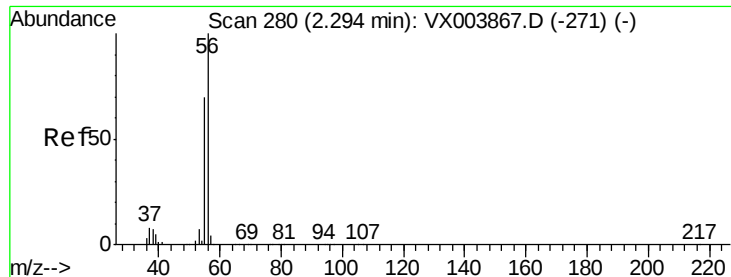
Tgt Ion: 59 Resp: 933

Ion Ratio Lower Upper

59 100

57 2.4 8.1 12.1#





#13

Acrolein

Concen: Below Cal

RT: 2.30 min Scan# 281

Delta R.T. 0.01 min

Lab File: VX003983.D

Acq: 10 Aug 2018 18:03

Instrument :

MSVOA\_X

ClientSampleId :

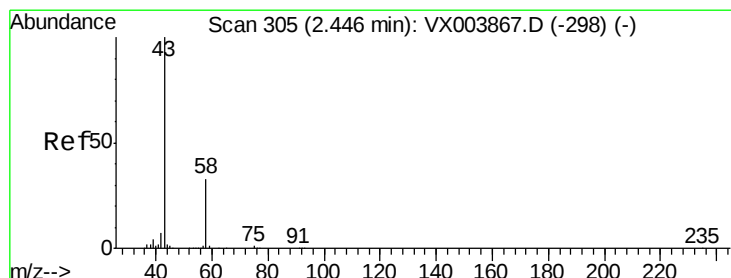
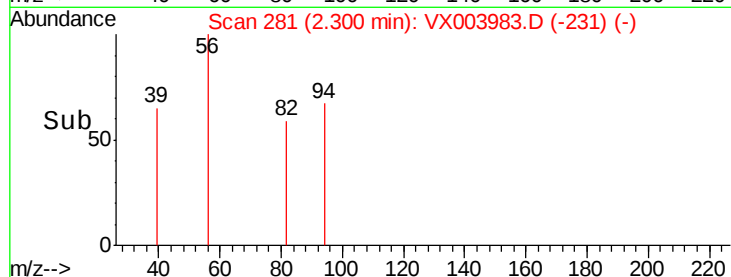
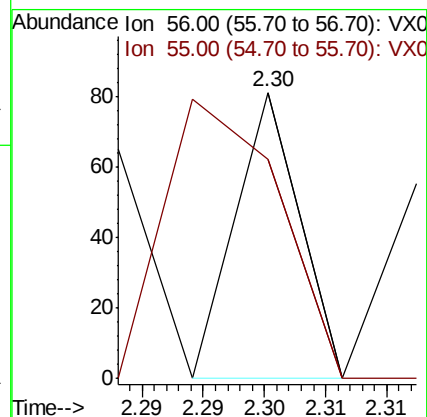
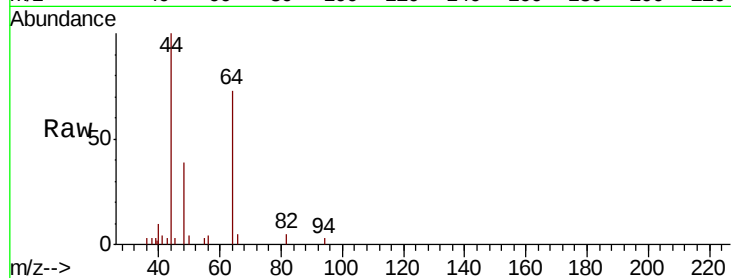
FL-TB-2018-5

Tot Ion: 56 Resp: 30

Ion Ratio Lower Upper

56 100

55 173.3 56.1 84.1#



#16

Acetone

Concen: 0.51 ug/l

RT: 2.45 min Scan# 305

Delta R.T. 0.00 min

Lab File: VX003983.D

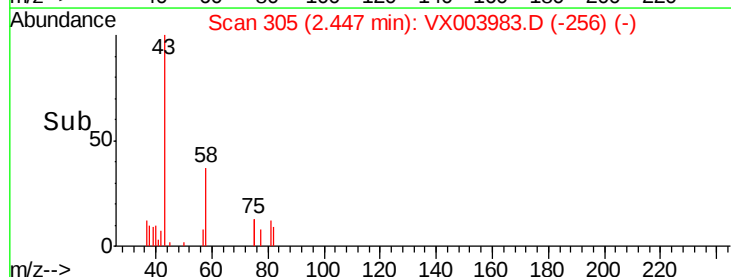
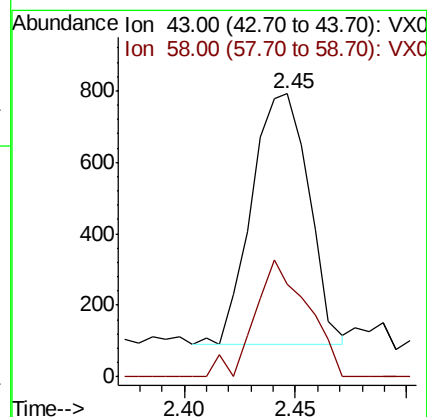
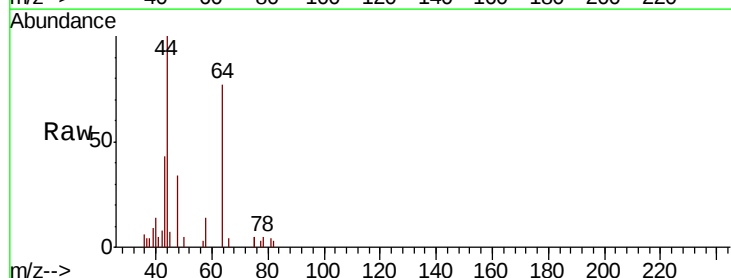
Acq: 10 Aug 2018 18:03

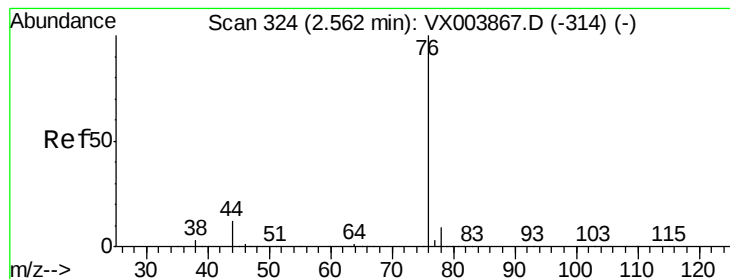
Tgt Ion: 43 Resp: 1244

Ion Ratio Lower Upper

43 100

58 37.1 26.4 39.6





#17

Carbon Disulfide

Concen: 0.55 ua/l

RT: 2.58 min Scan# 327

Delta R.T. 0.02 min

Lab File: VX003983.D

Acq: 10 Aug 2018 18:03

Instrument :

MSVOA\_X

ClientSampleId :

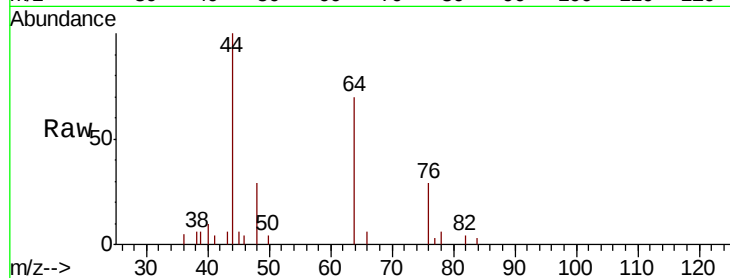
FL-TB-2018-5

Tot Ion: 76 Resp: 1062

Ion Ratio Lower Upper

76 100

78 7.5 7.5 11.3#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.58

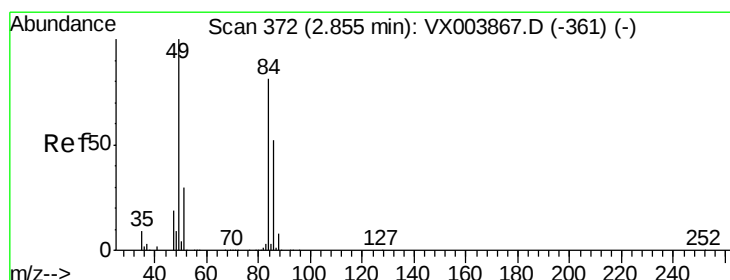
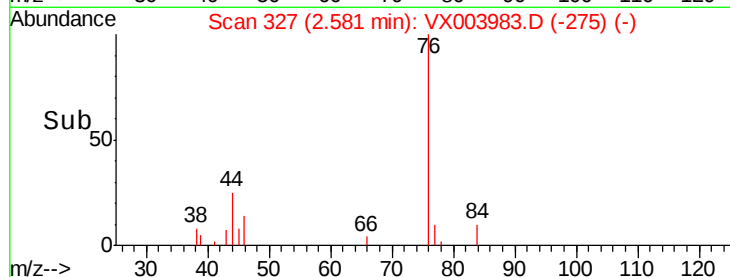
600

400

200

0

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 2.86 min Scan# 373

Delta R.T. 0.01 min

Lab File: VX003983.D

Acq: 10 Aug 2018 18:03

Tgt Ion: 84 Resp: 1769

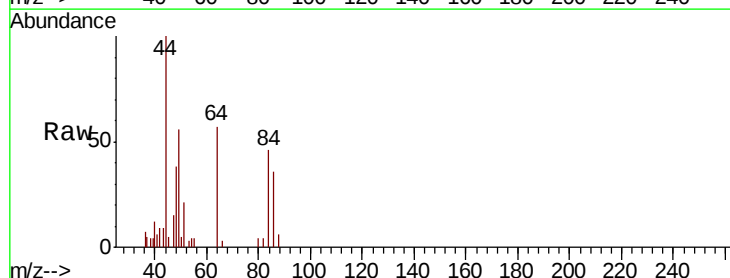
Ion Ratio Lower Upper

84 100

49 119.8 98.9 148.3

51 46.1 29.9 44.9#

86 77.3 51.0 76.6#



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

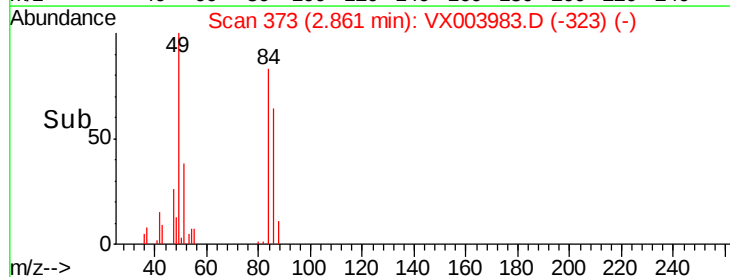
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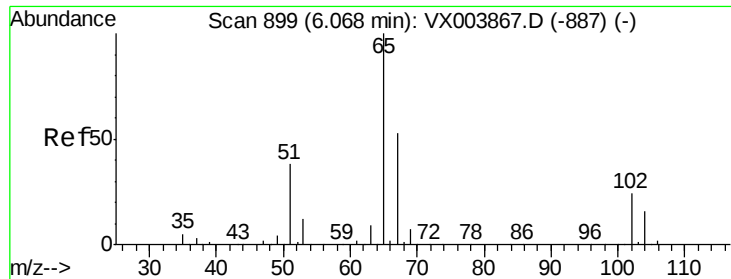
1000

500

0

Time-->

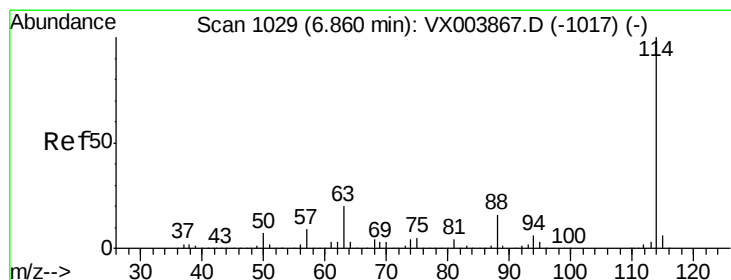
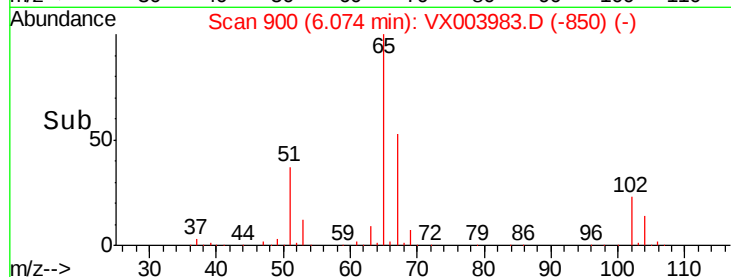
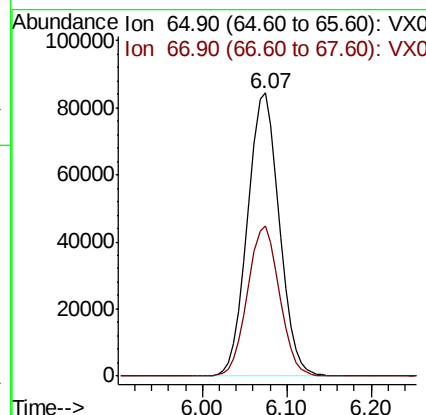
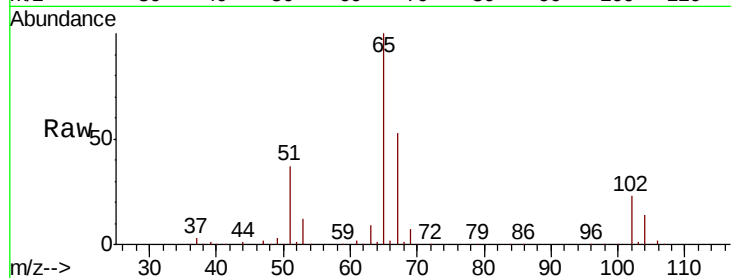




#33  
 1,2-Dichloroethane-d4  
 Concen: 52.29 ug/l  
 RT: 6.07 min Scan# 900  
 Delta R.T. 0.01 min  
 Lab File: VX003983.D  
 Acq: 10 Aug 2018 18:03

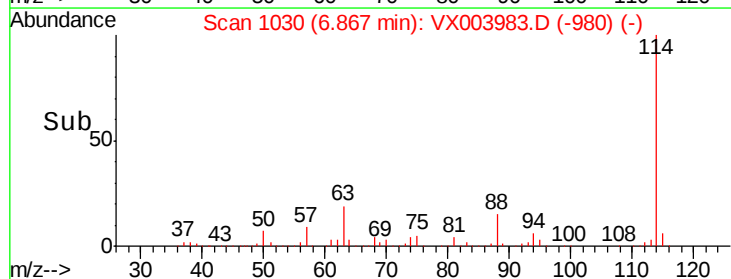
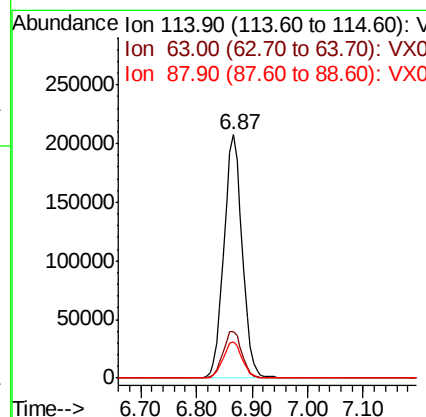
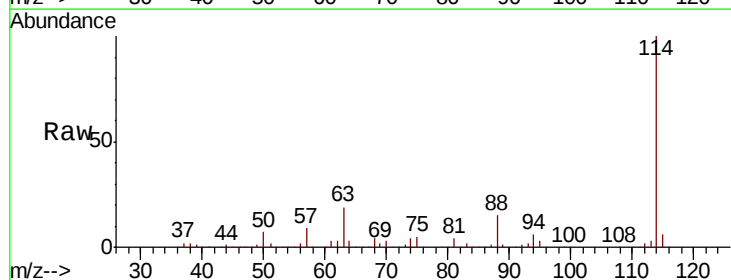
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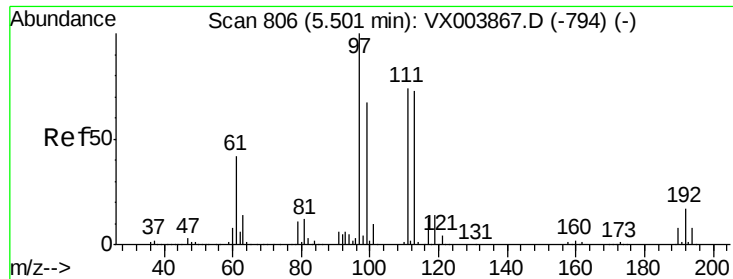
Tot Ion: 65 Resp: 215461  
 Ion Ratio Lower Upper  
 65 100  
 67 53.4 0.0 105.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.00 ug/l  
 RT: 6.87 min Scan# 1030  
 Delta R.T. 0.01 min  
 Lab File: VX003983.D  
 Acq: 10 Aug 2018 18:03

Tgt Ion: 114 Resp: 473546  
 Ion Ratio Lower Upper  
 114 100  
 63 19.2 0.0 39.0  
 88 15.1 0.0 32.0

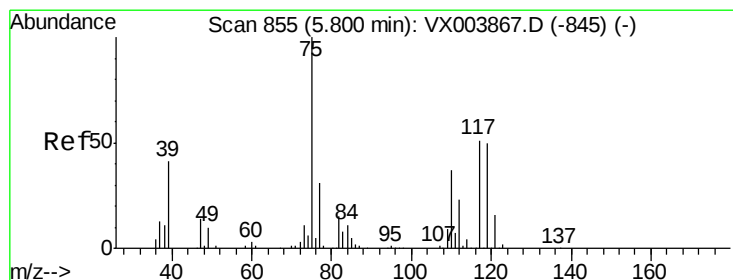
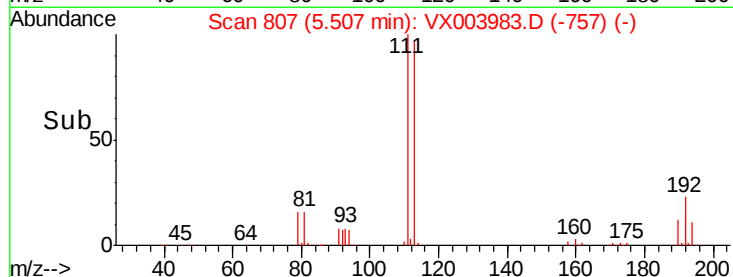
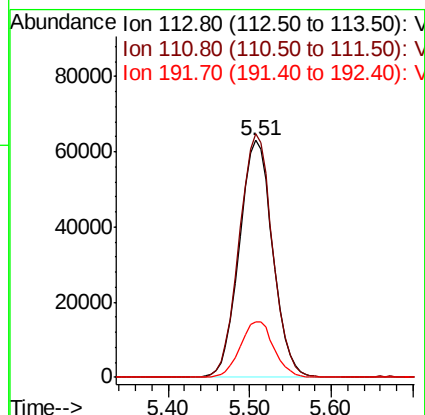
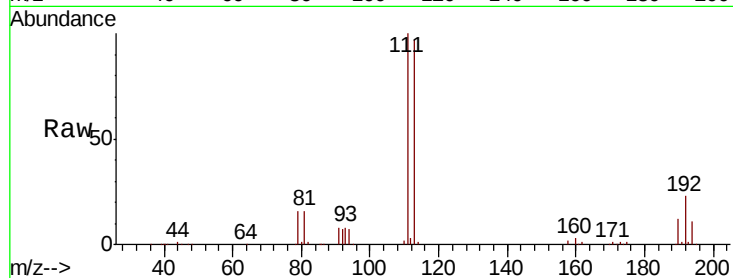




#35  
 Dibromofluoromethane  
 Concen: 49.89 ug/l  
 RT: 5.51 min Scan# 807  
 Delta R.T. 0.01 min  
 Lab File: VX003983.D  
 Acq: 10 Aug 2018 18:03

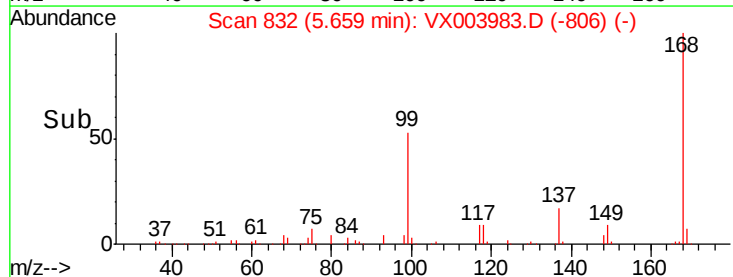
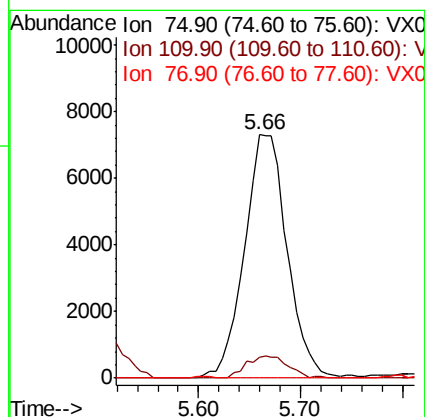
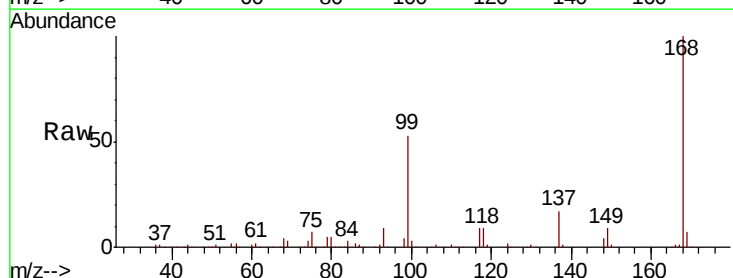
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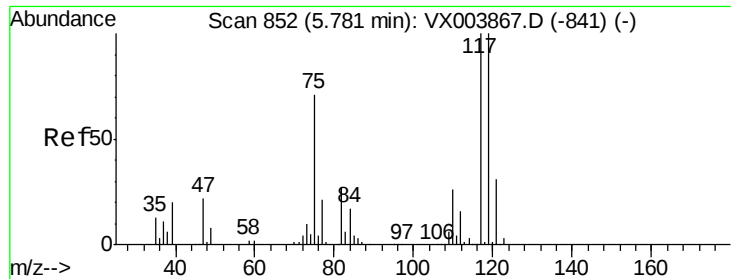
Tot Ion:113 Resp: 178983  
 Ion Ratio Lower Upper  
 113 100  
 111 102.7 82.0 123.0  
 192 23.7 19.0 28.4



#36  
 1,1-Dichloropropene  
 Concen: 4.01 ug/l  
 RT: 5.66 min Scan# 832  
 Delta R.T. -0.14 min  
 Lab File: VX003983.D  
 Acq: 10 Aug 2018 18:03

Tgt Ion: 75 Resp: 21249  
 Ion Ratio Lower Upper  
 75 100  
 110 8.9 18.2 54.6#  
 77 0.0 25.0 37.4#

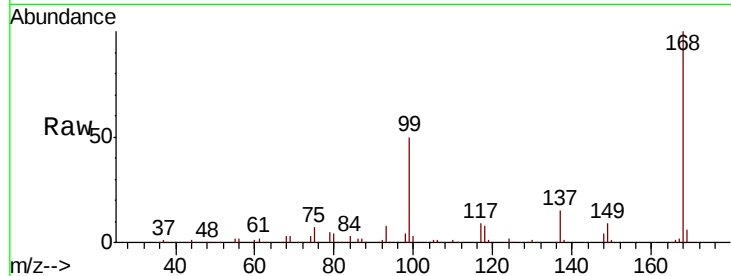




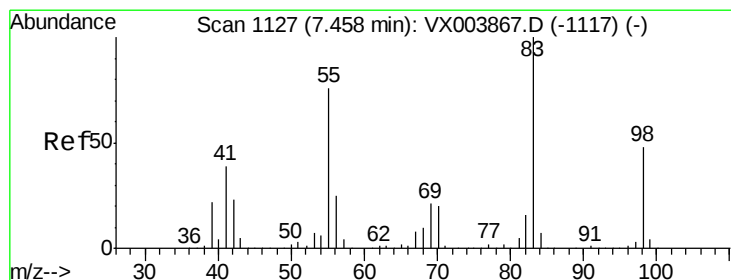
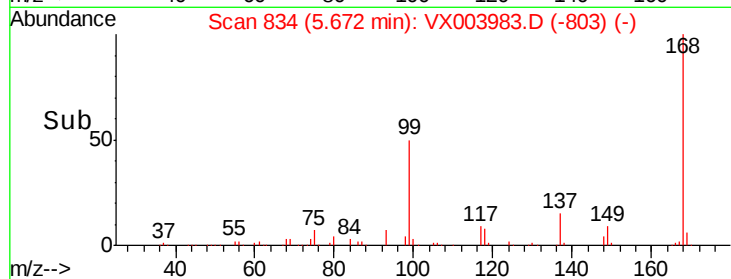
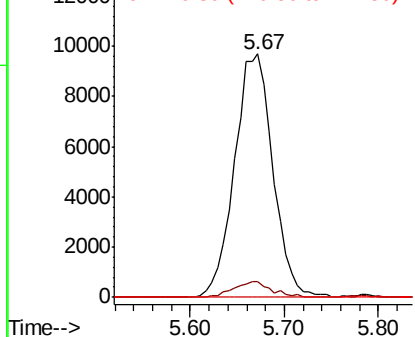
#38  
Carbon Tetrachloride  
Concen: 5.46 ug/l  
RT: 5.67 min Scan# 834  
Delta R.T. -0.11 min  
Lab File: VX003983.D  
Acq: 10 Aug 2018 18:03

Instrument :  
MSVOA\_X  
ClientSampleId :  
FL-TB-2018-5

Tot Ion:117 Resp: 27556  
Ion Ratio Lower Upper  
117 100  
119 6.2 79.5 119.3#  
121 0.0 25.0 37.4#

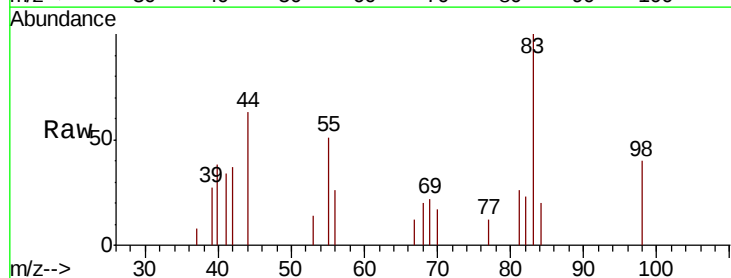


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

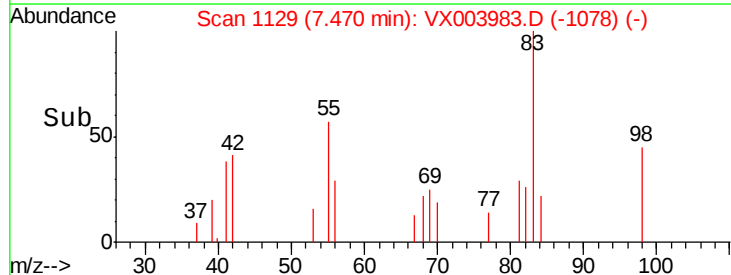
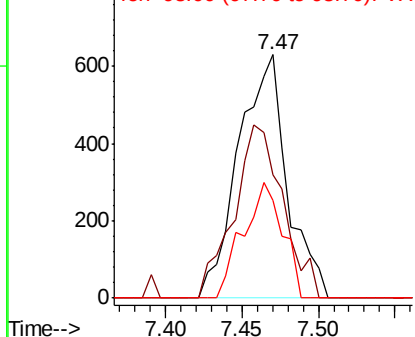


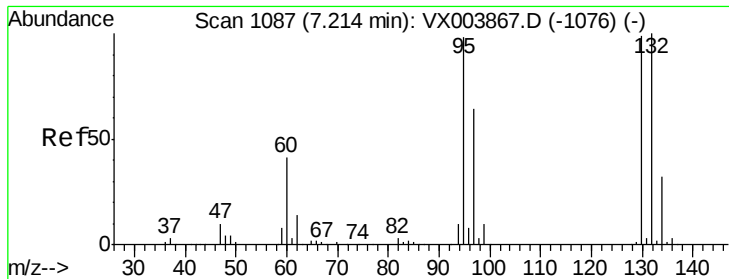
#39  
Methylcyclohexane  
Concen: 0.22 ug/l  
RT: 7.47 min Scan# 1129  
Delta R.T. 0.01 min  
Lab File: VX003983.D  
Acq: 10 Aug 2018 18:03

Tgt Ion: 83 Resp: 1396  
Ion Ratio Lower Upper  
83 100  
55 50.8 61.0 91.6#  
98 40.2 38.6 57.8



Abundance Ion 83.00 (82.70 to 83.70): VX0  
Ion 55.00 (54.70 to 55.70): VX0  
Ion 98.00 (97.70 to 98.70): VX0





#44

Trichloroethene

Concen: 0.22 ug/l

RT: 7.22 min Scan# 1088

Delta R.T. 0.01 min

Lab File: VX003983.D

Acq: 10 Aug 2018 18:03

Instrument :

MSVOA\_X

ClientSampled :

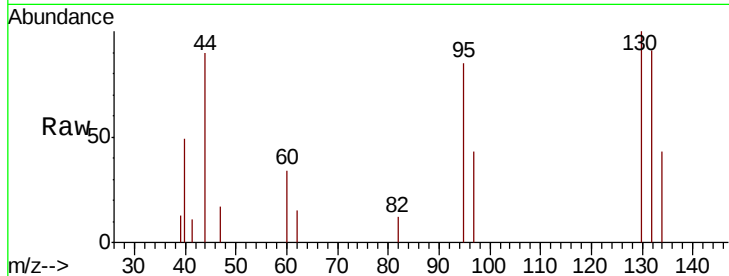
FL-TB-2018-5

Tot Ion:130 Resp: 979

Ion Ratio Lower Upper

130 100

95 85.4 0.0 199.4



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.22

500

400

300

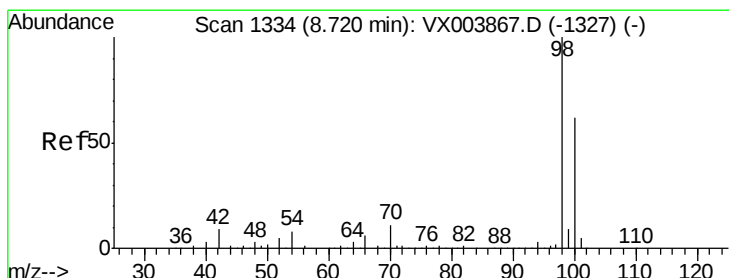
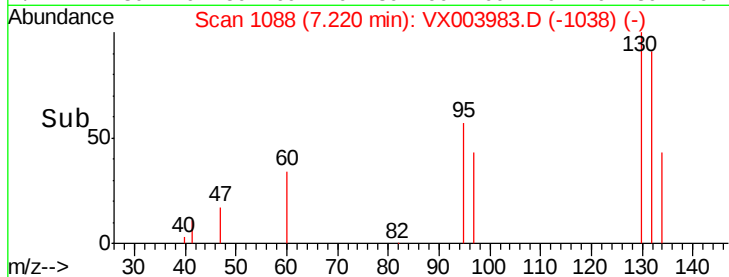
200

100

0

7.15 7.20 7.25

Time-->



#50

Toluene-d8

Concen: 47.21 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX003983.D

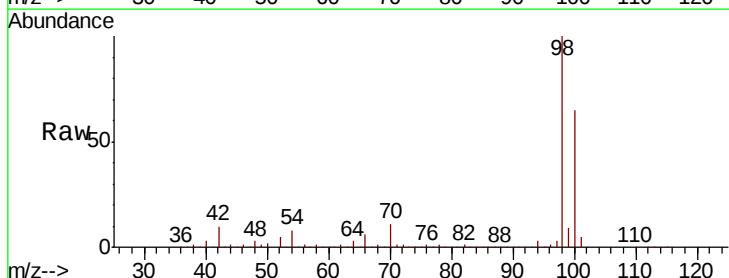
Acq: 10 Aug 2018 18:03

Tgt Ion: 98 Resp: 658687

Ion Ratio Lower Upper

98 100

100 65.6 53.3 79.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

500000

400000

300000

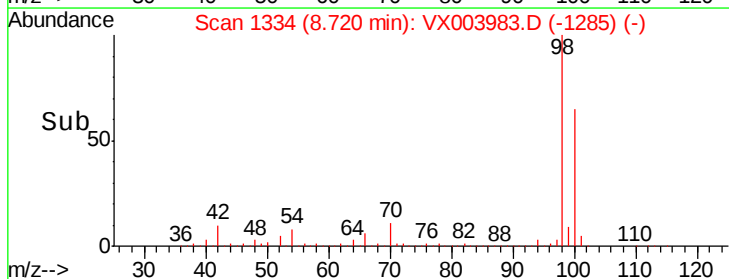
200000

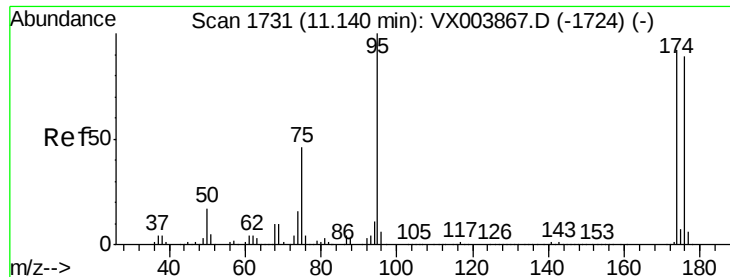
100000

0

8.60 8.70 8.80 8.90

Time-->

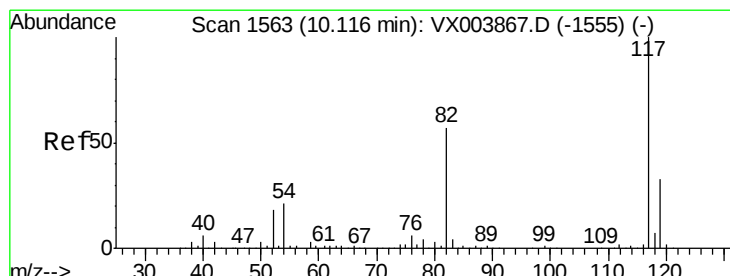
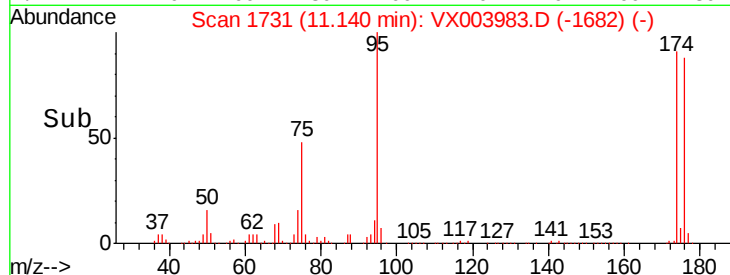
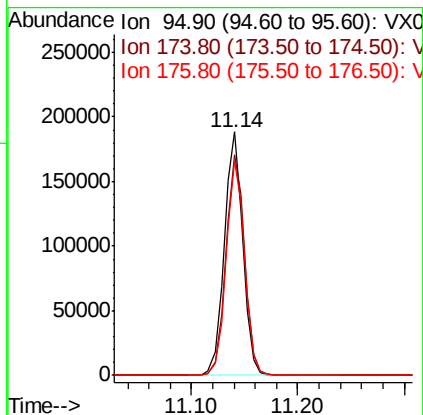
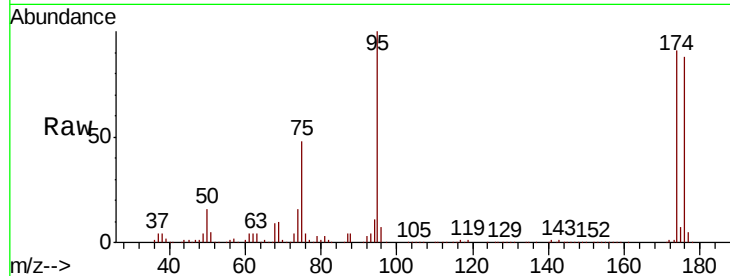




#62  
4-Bromofluorobenzene  
Concen: 50.53 ug/l  
RT: 11.14 min Scan# 1731  
Delta R.T. 0.00 min  
Lab File: VX003983.D  
Acq: 10 Aug 2018 18:03

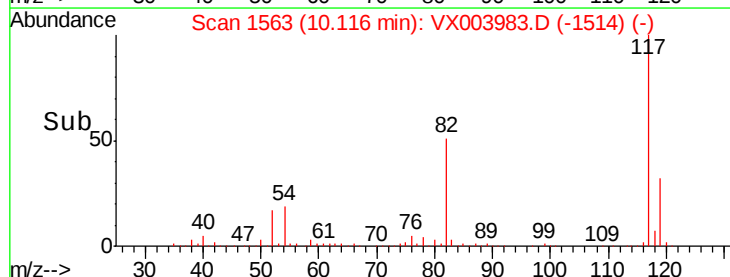
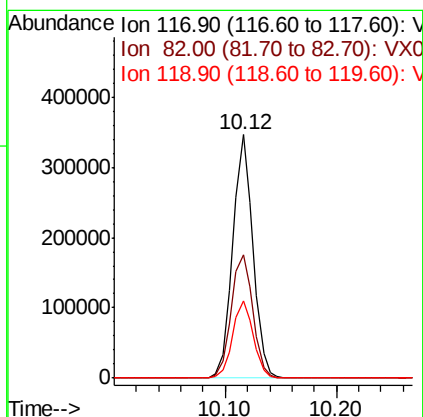
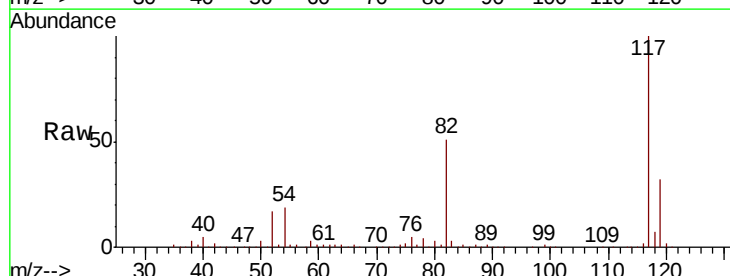
Instrument :  
MSVOA\_X  
ClientSampleId :  
FL-TB-2018-5

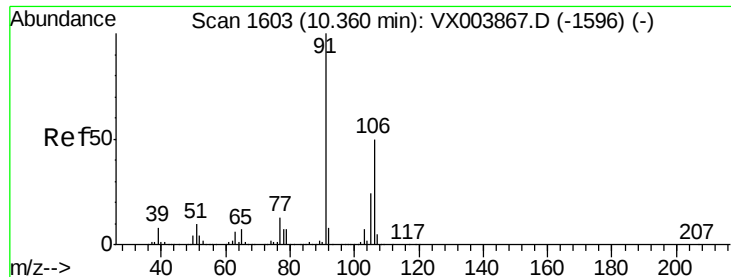
Tot Ion: 95 Resp: 228092  
Ion Ratio Lower Upper  
95 100  
174 92.3 0.0 182.8  
176 88.2 0.0 179.0



#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1563  
Delta R.T. 0.00 min  
Lab File: VX003983.D  
Acq: 10 Aug 2018 18:03

Tgt Ion: 117 Resp: 434418  
Ion Ratio Lower Upper  
117 100  
82 50.7 45.4 68.0  
119 31.8 26.6 40.0





#68

m/p-Xvlenes

Concen: 0.22 ug/l

RT: 10.36 min Scan# 1603

Delta R.T. 0.00 min

Lab File: VX003983.D

Acq: 10 Aug 2018 18:03

Instrument :

MSVOA\_X

ClientSampleId :

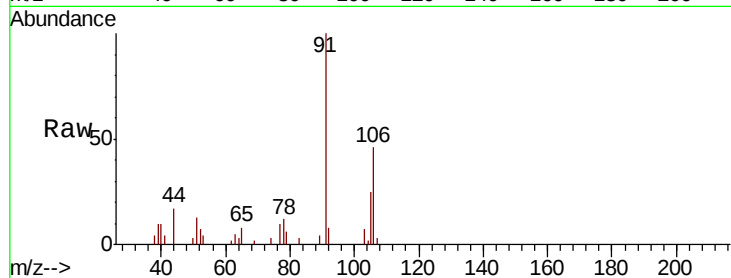
FL-TB-2018-5

Tot Ion:106 Resp: 1575

Ion Ratio Lower Upper

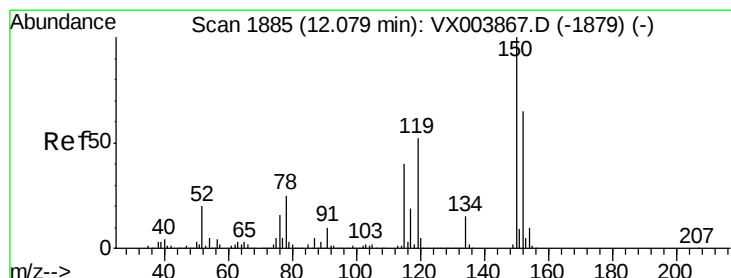
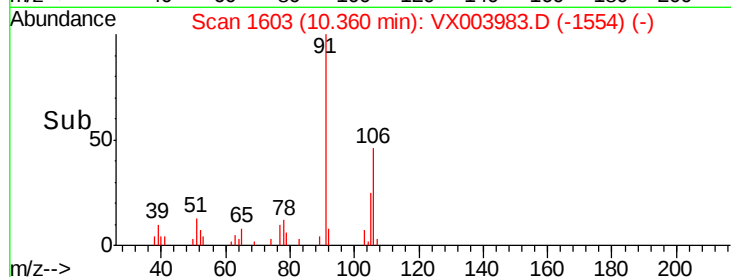
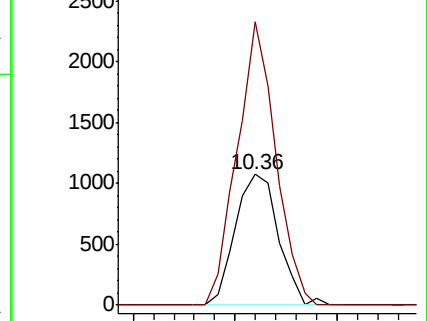
106 100

91 193.8 162.3 243.5



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# 1885

Delta R.T. 0.00 min

Lab File: VX003983.D

Acq: 10 Aug 2018 18:03

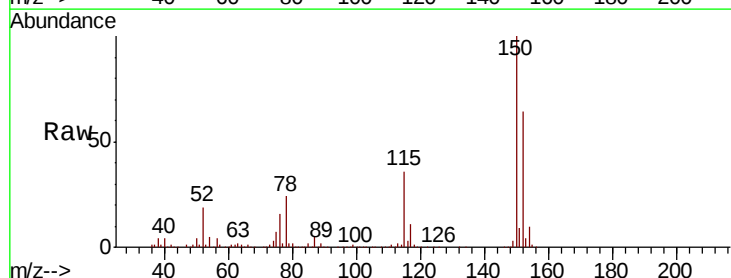
Tgt Ion:152 Resp: 240220

Ion Ratio Lower Upper

152 100

115 54.9 39.1 117.3

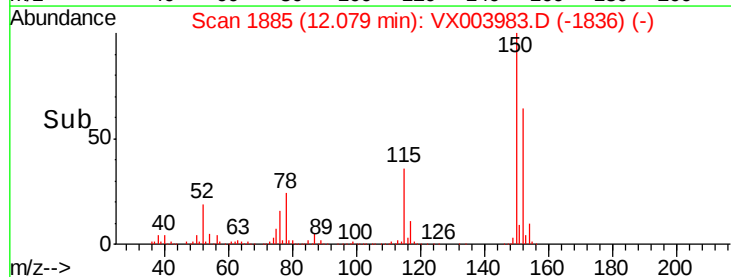
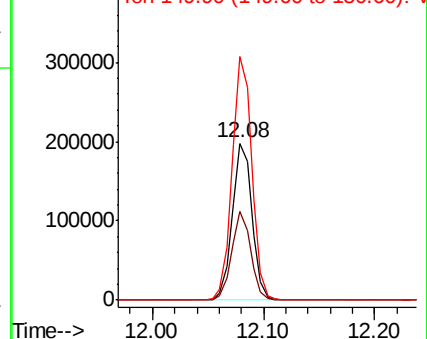
150 155.7 0.0 349.2

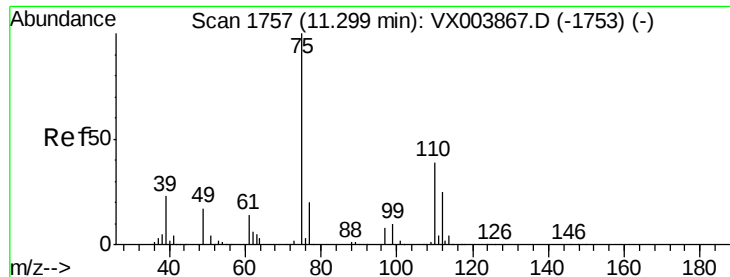


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 20.68 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003983.D

Acq: 10 Aug 2018 18:03

Instrument :

MSVOA\_X

ClientSampled :

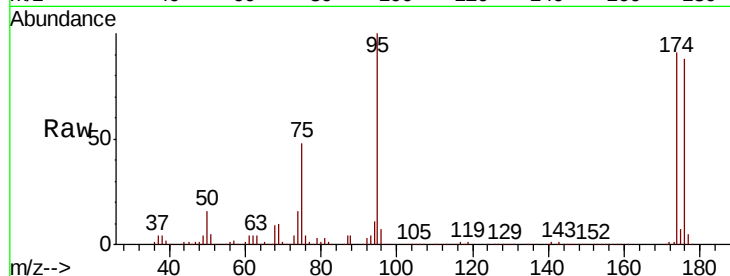
FL-TB-2018-5

Tot Ion: 75 Resp: 109711

Ion Ratio Lower Upper

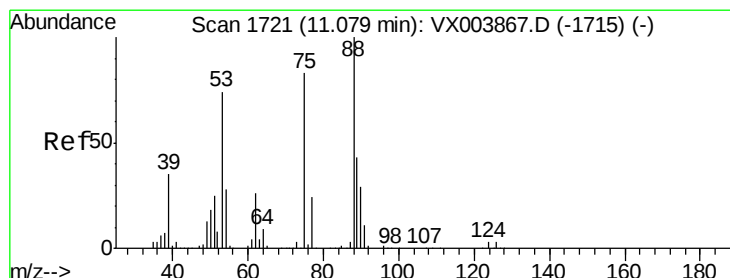
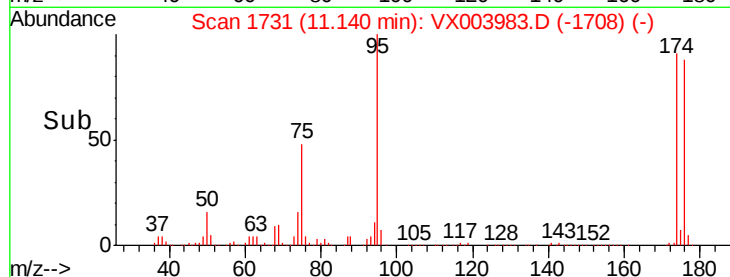
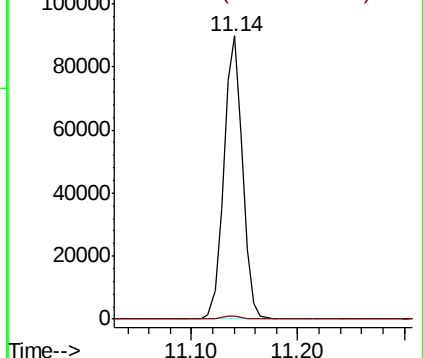
75 100

77 1.3 20.8 62.5#



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: 55.97 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003983.D

Acq: 10 Aug 2018 18:03

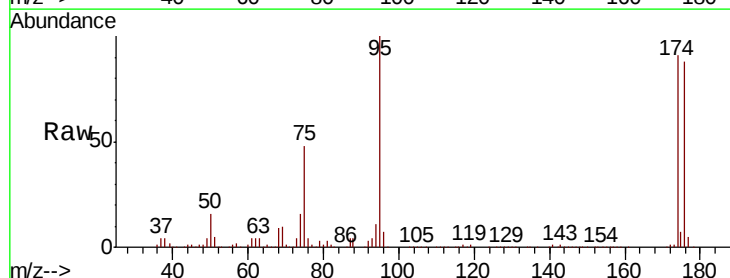
Tgt Ion: 75 Resp: 109711

Ion Ratio Lower Upper

75 100

53 0.2 80.3 120.5#

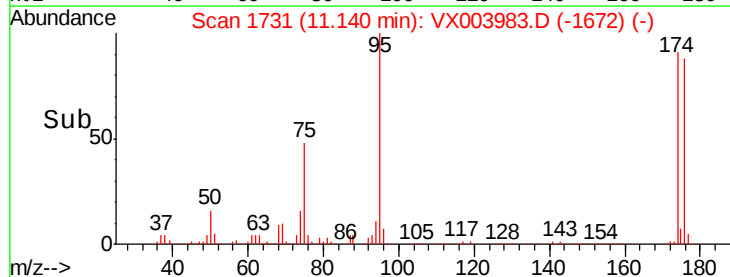
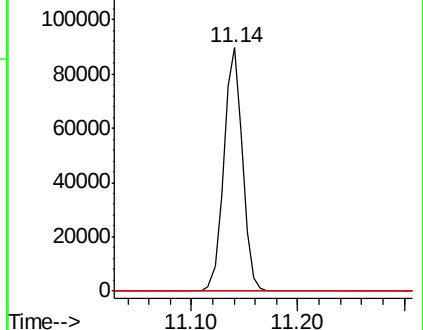
89 0.0 37.8 56.8#

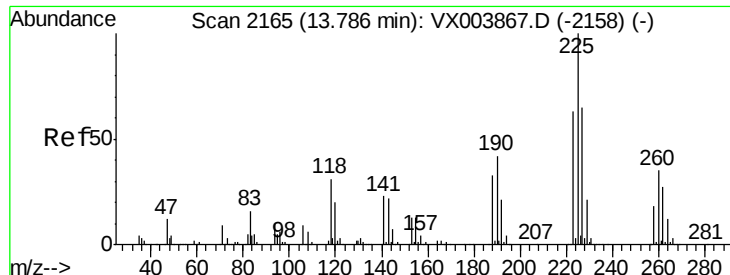


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#94

Hexachlorobutadiene

Concen: 0.52 ug/l

RT: 13.79 min Scan# 2165

Delta R.T. 0.00 min

Lab File: VX003983.D

Acq: 10 Aug 2018 18:03

Instrument :

MSVOA\_X

ClientSampleId :

FL-TB-2018-5

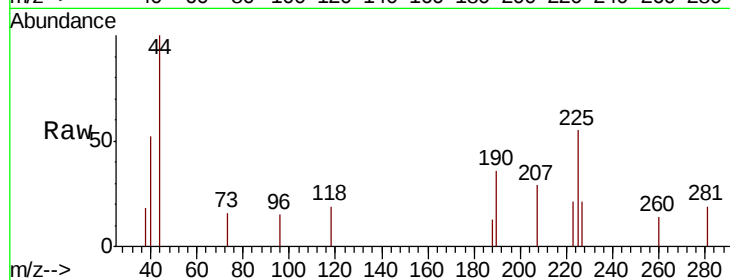
Tot Ion: 225 Resp: 251

Ion Ratio Lower Upper

225 100

223 45.4 31.4 94.0

227 41.4 32.1 96.5



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

