

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX053018\  
 Data File : VX002145.D  
 Acq On : 30 May 2018 19:05  
 Operator : JC/MD  
 Sample : J3165-06  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-22

Quant Time: May 31 07:26:12 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X052418W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 24 13:09:03 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 283043   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 415045   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 384339   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 226606   | 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   | 186487     | 36.86  | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 73.72% |       |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 141349     | 34.06  | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 68.12% |       |          |
| 50) Toluene-d8              | 8.72  | 98   | 573952     | 38.20  | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 76.40% |       |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 213919     | 36.39  | ug/l  | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery = | 72.78% |       |          |

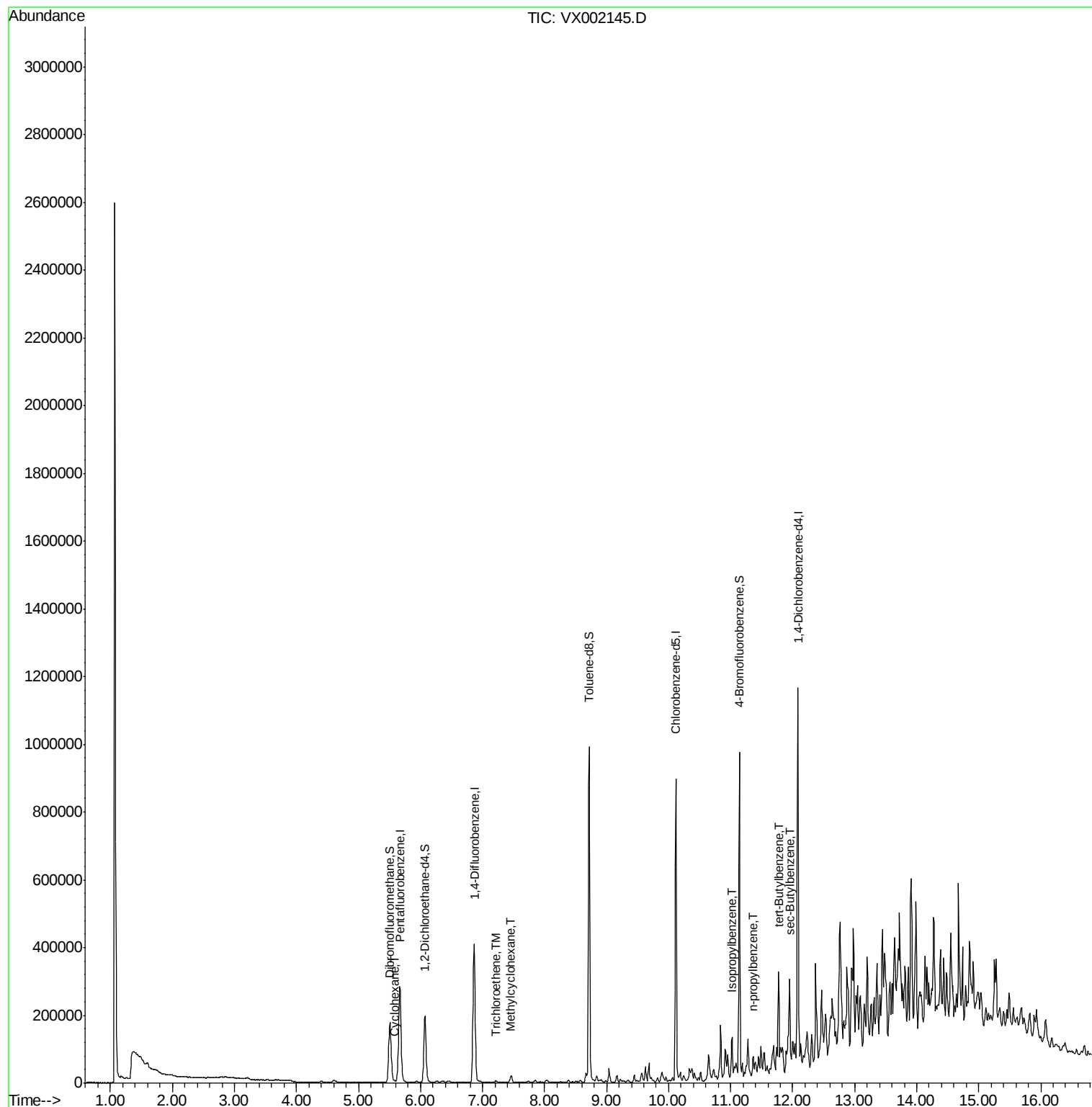
| Target Compounds      | R.T.  | QIon | Response | Conc | Units | Qvalue |
|-----------------------|-------|------|----------|------|-------|--------|
| 31) Cyclohexane       | 5.58  | 56   | 3587     | 0.51 | ug/l  | # 90   |
| 39) Methylcyclohexane | 7.46  | 83   | 7547     | 1.06 | ug/l  | 89     |
| 44) Trichloroethene   | 7.21  | 130  | 1937     | 0.39 | ug/l  | 96     |
| 73) Isopropylbenzene  | 11.02 | 105  | 58152    | 3.03 | ug/l  | 100    |
| 78) n-propylbenzene   | 11.37 | 91   | 33249    | 1.55 | ug/l  | 97     |
| 83) tert-Butylbenzene | 11.77 | 119  | 10694    | 0.66 | ug/l  | 88     |
| 85) sec-Butylbenzene  | 11.95 | 105  | 78281    | 4.05 | ug/l  | 82     |

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

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MSVOA\_X  
ClientSampleId :  
MW-22

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Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X052418W.M  
Quant Title : SW846 8260  
QLast Update : Thu May 24 13:09:03 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.01 min

Lab File: VX002145.D

Acq: 30 May 2018 19:05

Instrument :

MSVOA\_X

ClientSampleId :

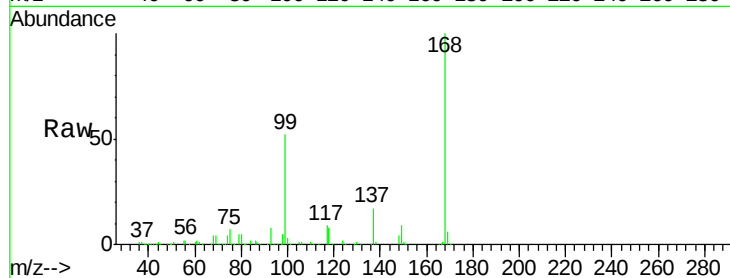
MW-22

Tot Ion:168 Resp: 283043

Ion Ratio Lower Upper

168 100

99 51.9 41.0 61.4



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

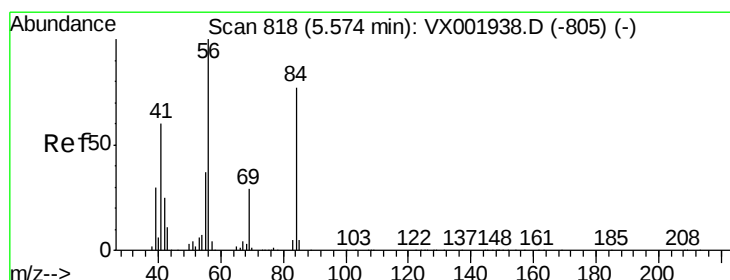
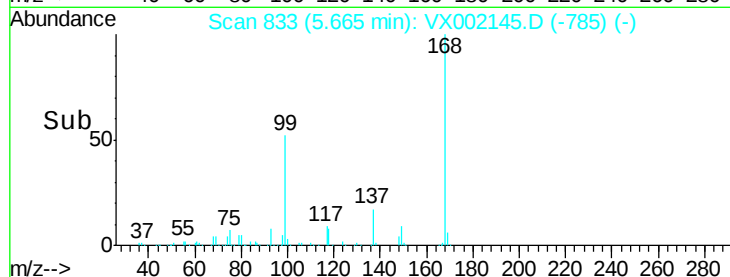
40000

20000

0

Time-->

5.60 5.70 5.80



#31

Cyclohexane

Concen: 0.51 ug/l

RT: 5.58 min Scan# 819

Delta R.T. 0.01 min

Lab File: VX002145.D

Acq: 30 May 2018 19:05

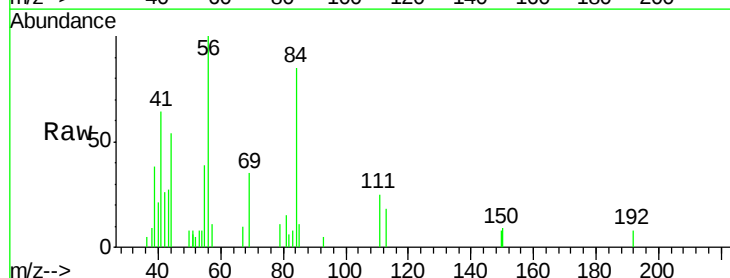
Tgt Ion: 56 Resp: 3587

Ion Ratio Lower Upper

56 100

69 35.1 23.1 34.7#

84 85.1 62.0 93.0



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

4000

3000

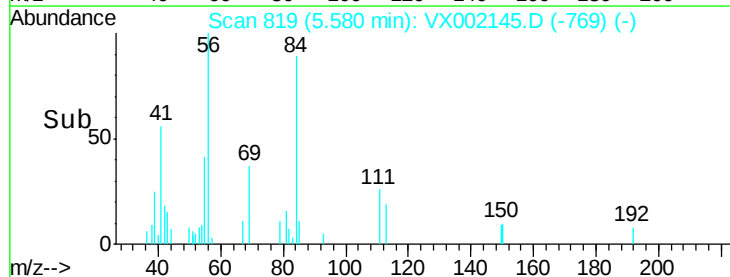
2000

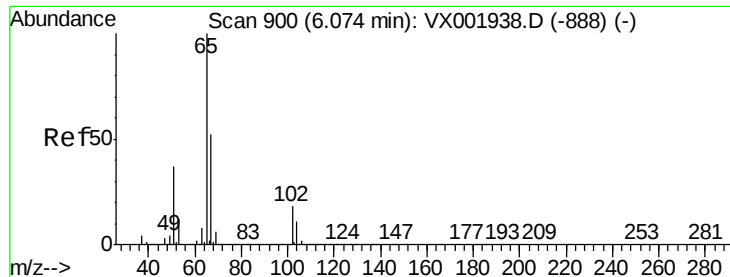
1000

0

Time-->

5.45 5.50 5.55 5.60 5.65





#33

1,2-Dichloroethane-d4

Concen: 36.86 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX002145.D

Acq: 30 May 2018 19:05

Instrument :

MSVOA\_X

ClientSampleId :

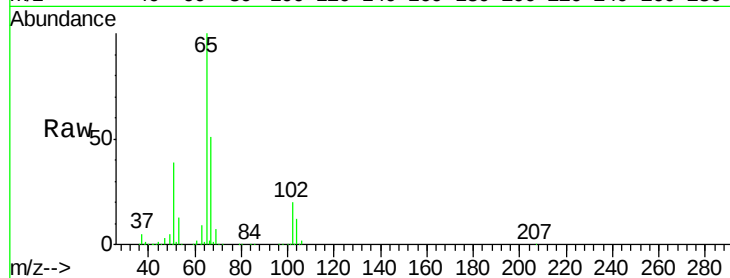
MW-22

Tot Ion: 65 Resp: 186487

Ion Ratio Lower Upper

65 100

67 51.4 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

80000

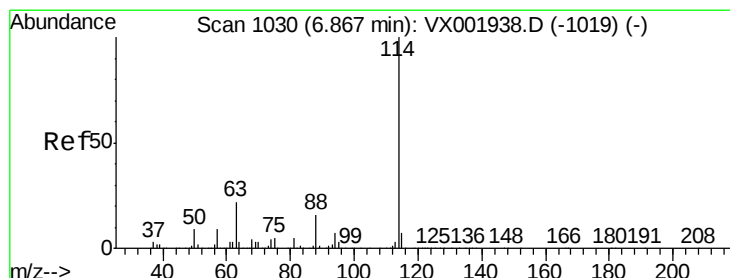
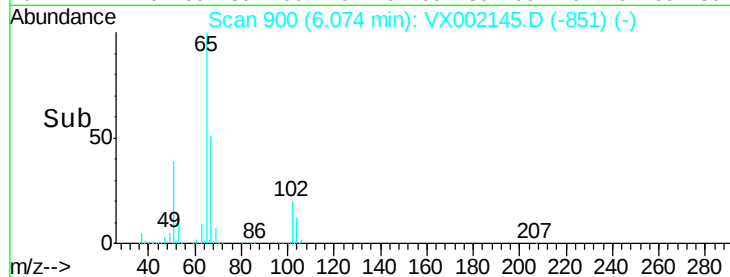
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX002145.D

Acq: 30 May 2018 19:05

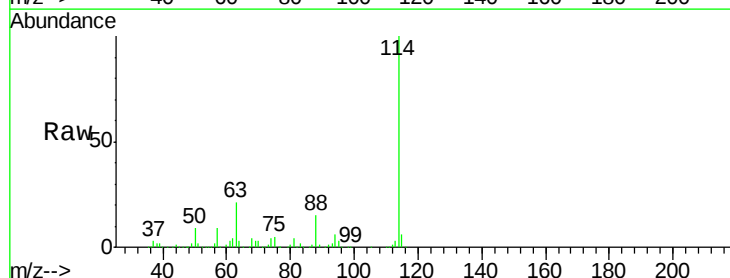
Tgt Ion: 114 Resp: 415045

Ion Ratio Lower Upper

114 100

63 20.6 0.0 43.2

88 15.2 0.0 31.6



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

6.87

200000

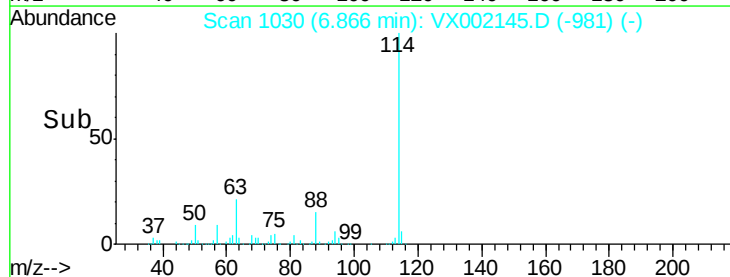
150000

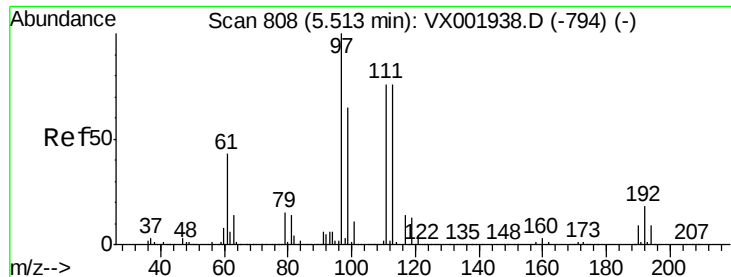
100000

50000

0

Time-->





#35

Dibromofluoromethane

Concen: 34.06 ug/l

RT: 5.51 min Scan# 807

Delta R.T. -0.01 min

Lab File: VX002145.D

Acq: 30 May 2018 19:05

Instrument :

MSVOA\_X

ClientSampleId :

MW-22

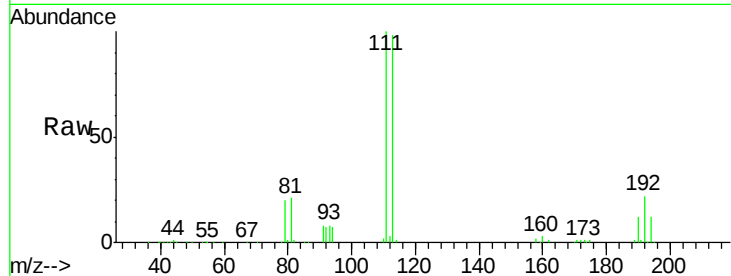
Tot Ion:113 Resp: 141349

Ion Ratio Lower Upper

113 100

111 103.0 82.0 123.0

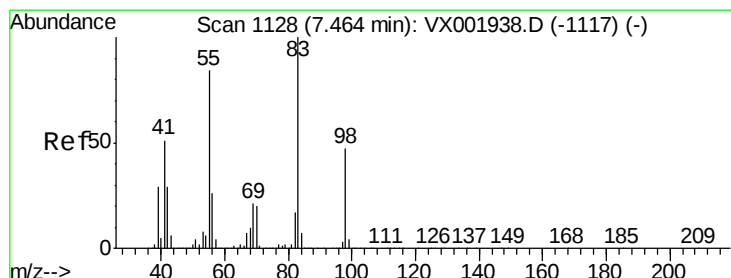
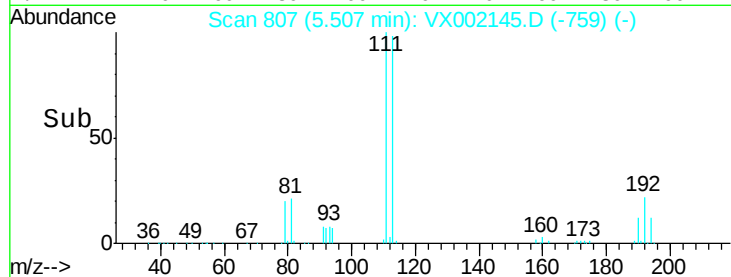
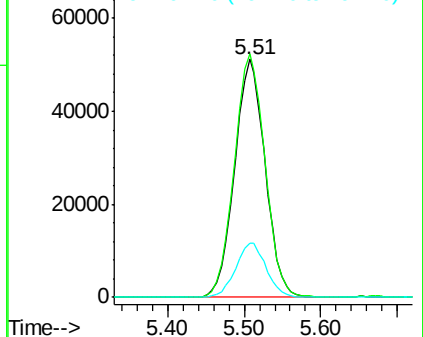
192 23.0 18.9 28.3



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



#39

Methylcyclohexane

Concen: 1.06 ug/l

RT: 7.46 min Scan# 1128

Delta R.T. -0.00 min

Lab File: VX002145.D

Acq: 30 May 2018 19:05

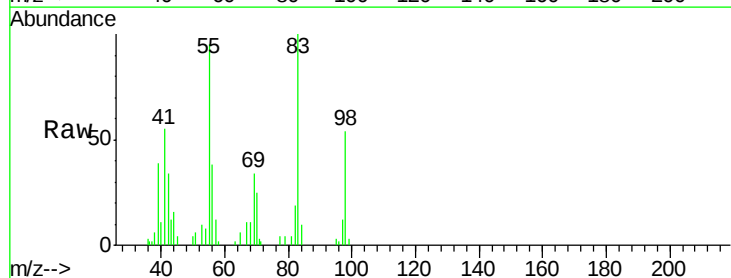
Tgt Ion: 83 Resp: 7547

Ion Ratio Lower Upper

83 100

55 95.0 67.3 100.9

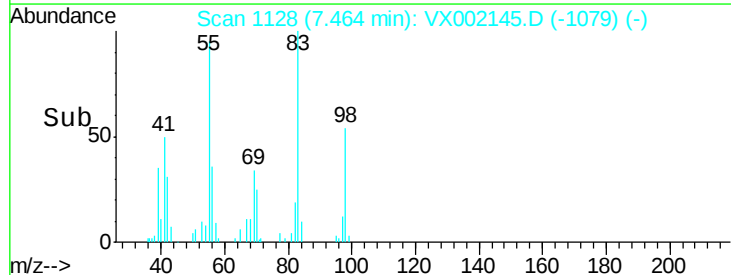
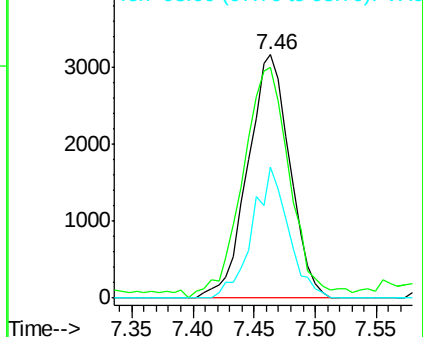
98 53.7 37.5 56.3

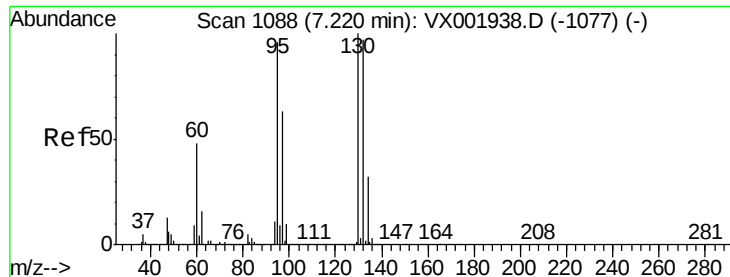


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#44

Trichloroethene

Concen: 0.39 ug/l

RT: 7.21 min Scan# 1087

Delta R.T. -0.01 min

Lab File: VX002145.D

Acq: 30 May 2018 19:05

Instrument :

MSVOA\_X

ClientSampleId :

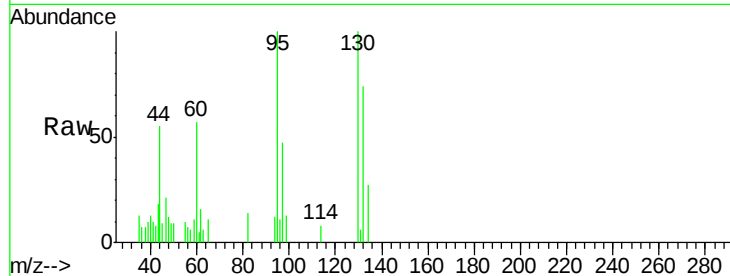
MW-22

Tot Ion:130 Resp: 1937

Ion Ratio Lower Upper

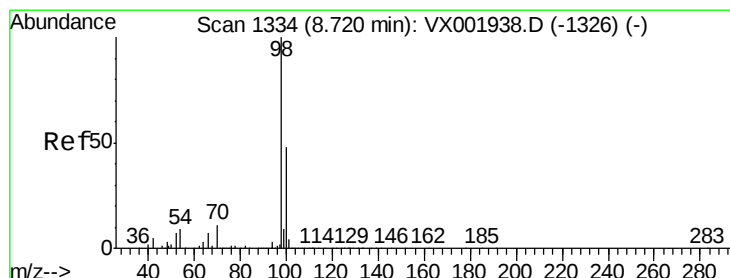
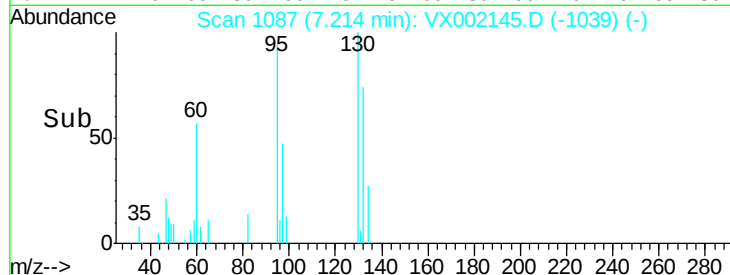
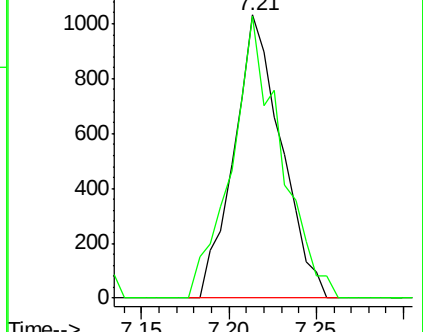
130 100

95 99.5 0.0 192.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 38.20 ug/l

RT: 8.72 min Scan# 1334

Delta R.T. 0.00 min

Lab File: VX002145.D

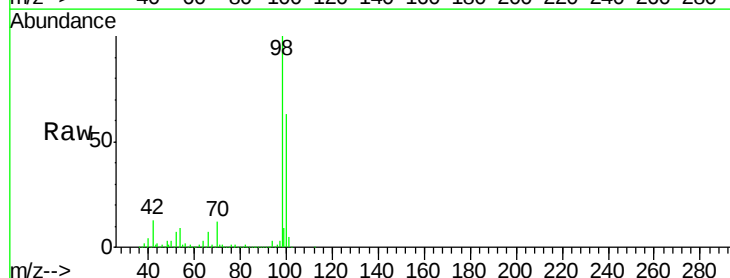
Acq: 30 May 2018 19:05

Tgt Ion: 98 Resp: 573952

Ion Ratio Lower Upper

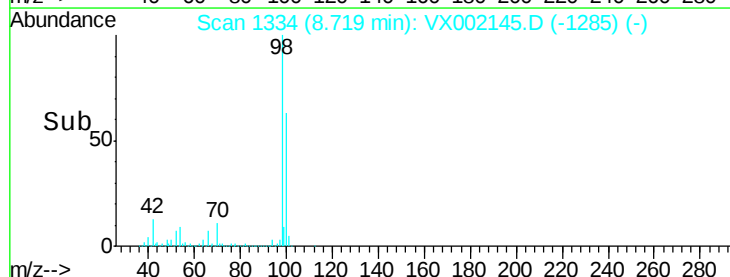
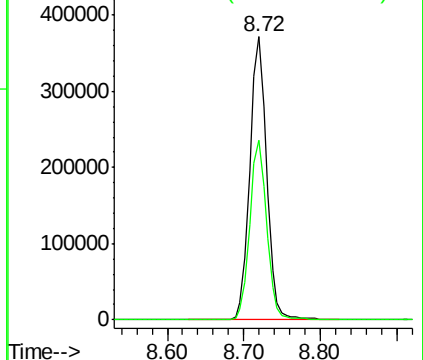
98 100

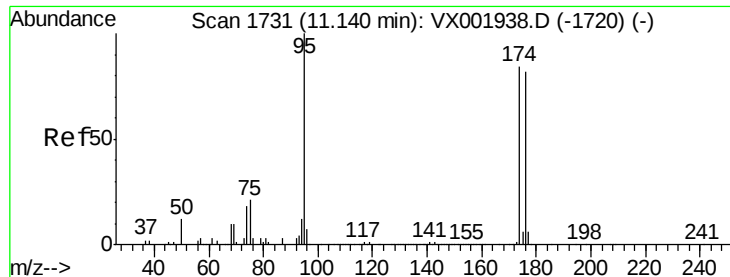
100 63.8 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#62

4-Bromofluorobenzene

Concen: 36.39 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX002145.D

Acq: 30 May 2018 19:05

Instrument :

MSVOA\_X

ClientSampleId :

MW-22

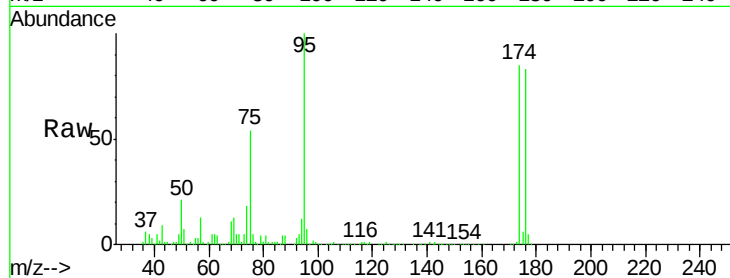
Tot Ion: 95 Resp: 213919

Ion Ratio Lower Upper

95 100

174 90.9 0.0 178.8

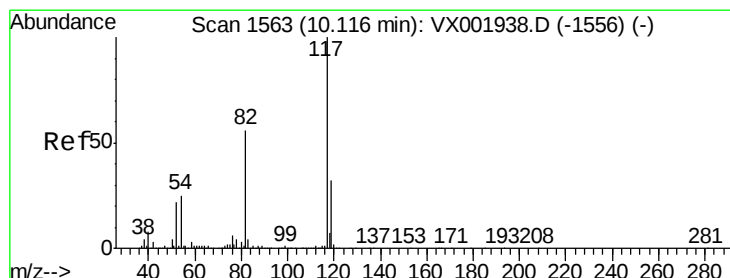
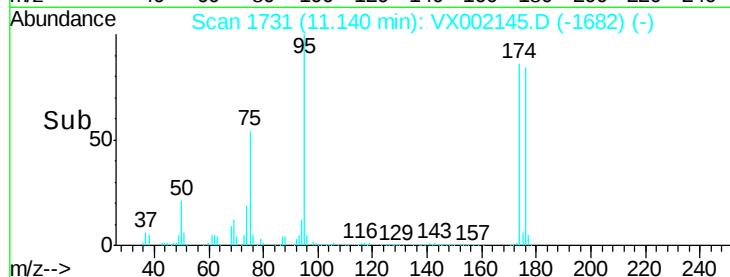
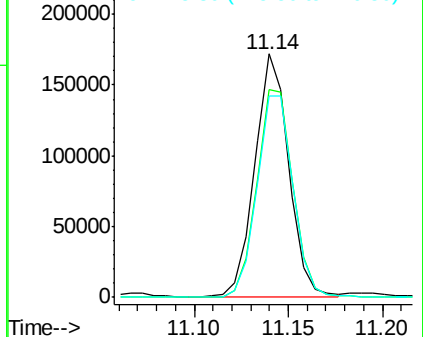
176 88.9 0.0 175.6



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# 1563

Delta R.T. -0.00 min

Lab File: VX002145.D

Acq: 30 May 2018 19:05

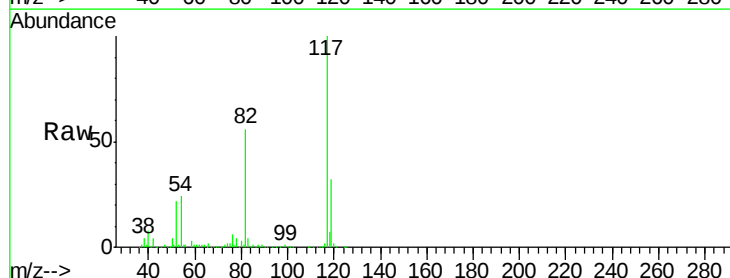
Tgt Ion: 117 Resp: 384339

Ion Ratio Lower Upper

117 100

82 55.8 44.8 67.2

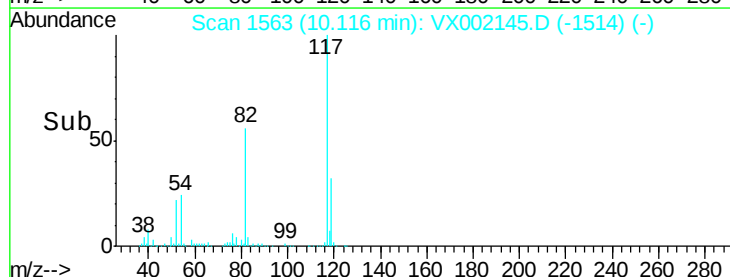
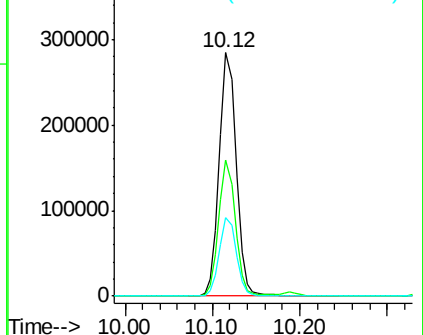
119 32.4 25.5 38.3

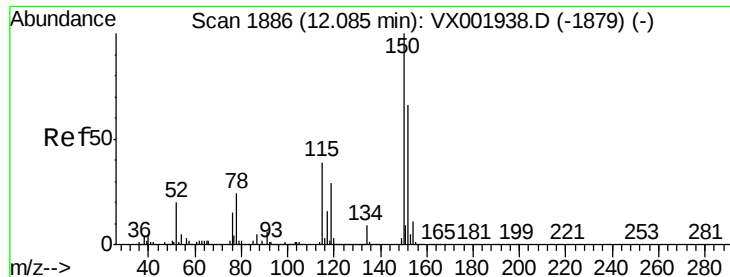


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 12.08 min Scan# 1886

Delta R.T. -0.00 min

Lab File: VX002145.D

Acq: 30 May 2018 19:05

Instrument :

MSVOA\_X

ClientSampleId :

MW-22

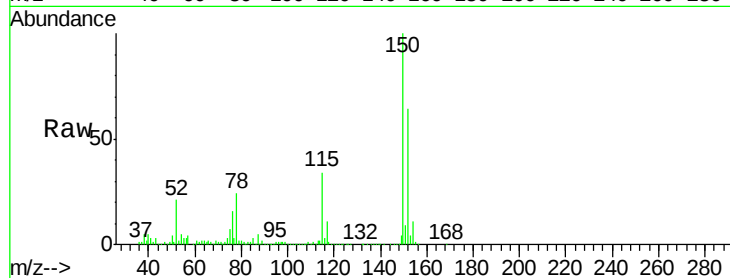
Tot Ion:152 Resp: 226606

Ion Ratio Lower Upper

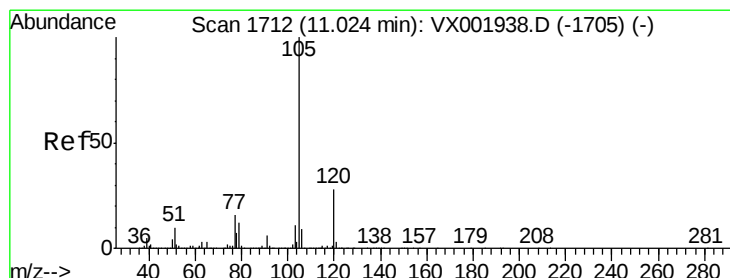
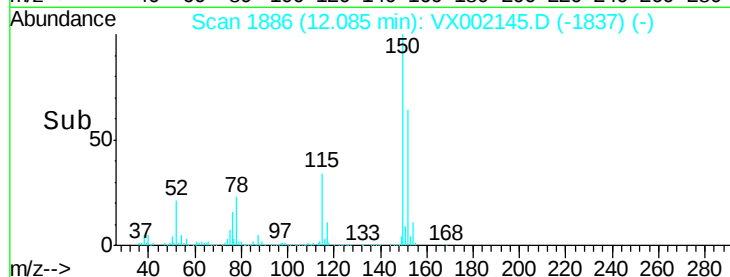
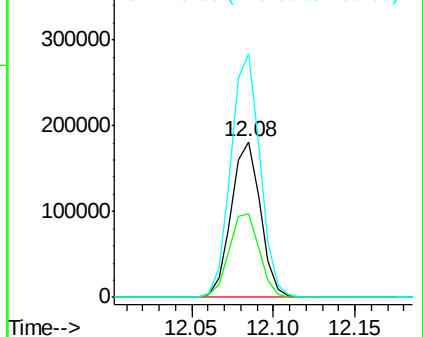
152 100

115 55.7 42.3 126.8

150 156.0 0.0 351.0



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



#73

Isopropylbenzene

Concen: 3.03 ug/l

RT: 11.02 min Scan# 1712

Delta R.T. -0.00 min

Lab File: VX002145.D

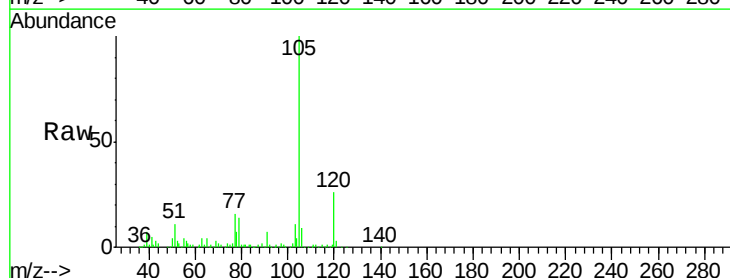
Acq: 30 May 2018 19:05

Tgt Ion:105 Resp: 58152

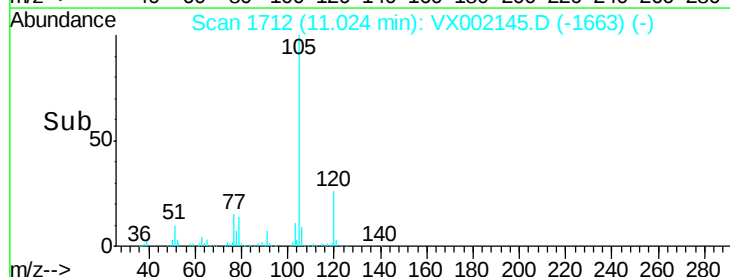
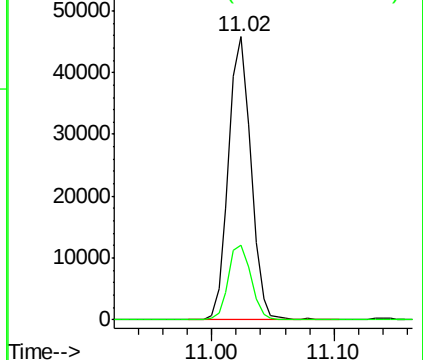
Ion Ratio Lower Upper

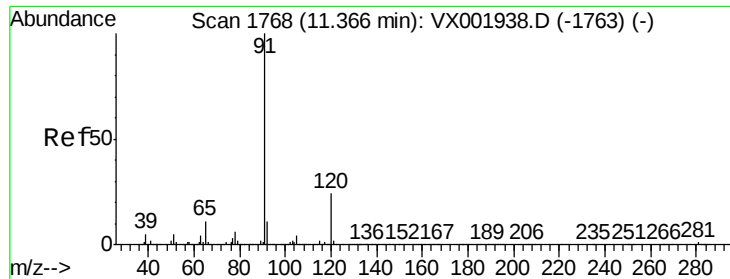
105 100

120 27.0 13.6 40.7



Abundance Ion 105.00 (104.70 to 105.70): V  
Ion 120.00 (119.70 to 120.70): V





#78

n-propylbenzene

Concen: 1.55 ug/l

RT: 11.37 min Scan# 1768

Delta R.T. -0.00 min

Lab File: VX002145.D

Acq: 30 May 2018 19:05

Instrument :

MSVOA\_X

ClientSampleId :

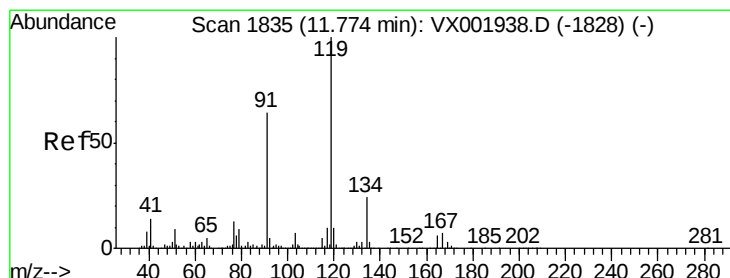
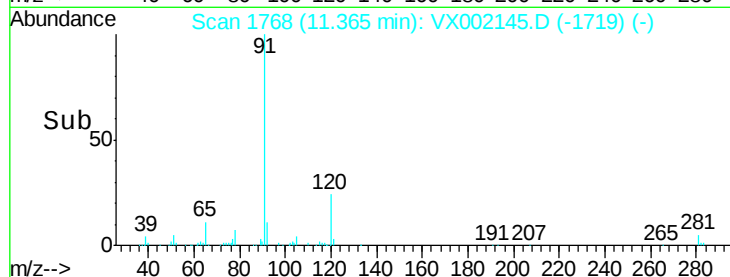
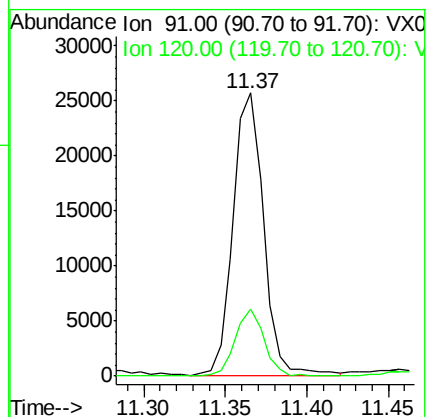
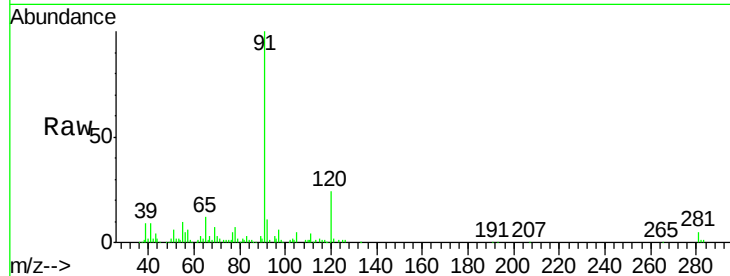
MW-22

Tot Ion: 91 Resp: 33249

Ion Ratio Lower Upper

91 100

120 22.5 11.9 35.7



#83

tert-Butylbenzene

Concen: 0.66 ug/l

RT: 11.77 min Scan# 1835

Delta R.T. -0.00 min

Lab File: VX002145.D

Acq: 30 May 2018 19:05

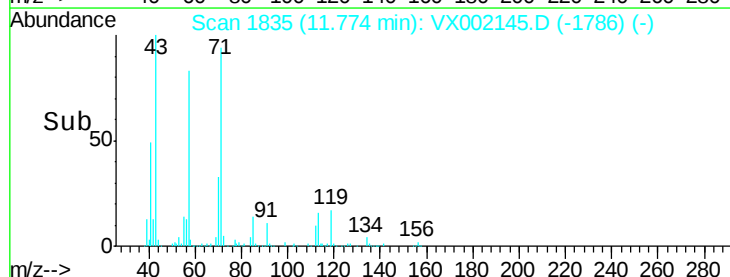
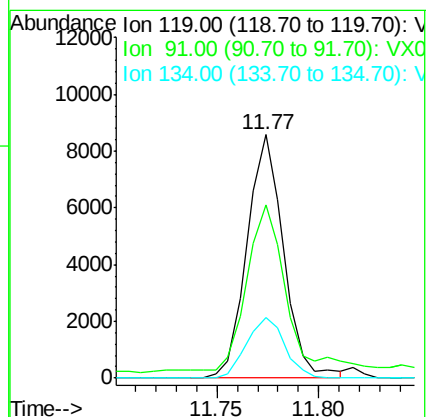
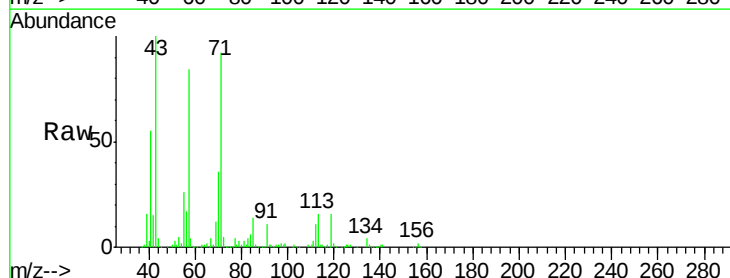
Tgt Ion: 119 Resp: 10694

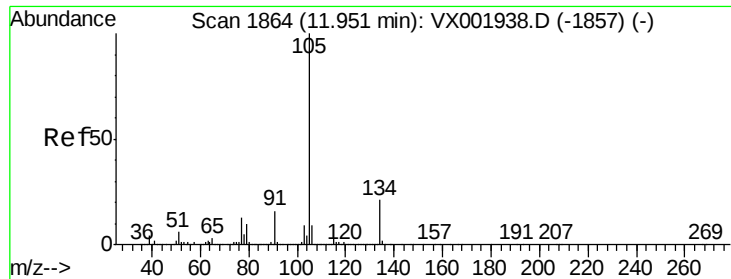
Ion Ratio Lower Upper

119 100

91 71.8 30.6 91.8

134 26.0 11.7 35.0





#85

sec-Butylbenzene

Concen: 4.05 ug/l

RT: 11.95 min Scan# 1864

Delta R.T. -0.00 min

Lab File: VX002145.D

Acq: 30 May 2018 19:05

Instrument :

MSVOA\_X

ClientSampleId :

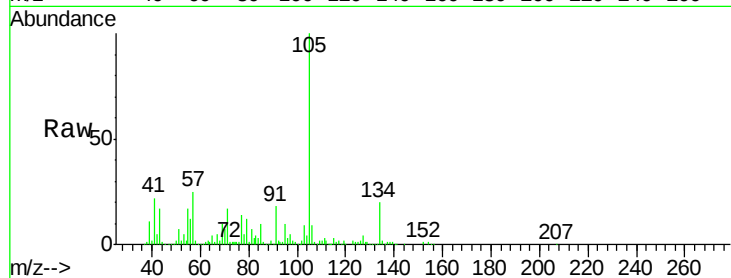
MW-22

Tot Ion:105 Resp: 78281

Ion Ratio Lower Upper

105 100

134 29.3 10.4 31.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

