

Data Path : W:\HPCHEM1\MSVOA\_X\DATA\VX041018\  
 Data File : VX000757.D  
 Acq On : 10 Apr 2018 19:29  
 Operator : JC/MD  
 Sample : VX0410WBL01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0410WBL01

Quant Time: Apr 11 08:16:45 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X041018W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 10 15:49:28 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 313403   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 438156   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 403690   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 236075   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |        |      |
|-----------------------------|--------|-----|----------|-------|--------|------|
| System Monitoring Compounds |        |     |          |       |        |      |
| 33) 1,2-Dichloroethane-d4   | 6.08   | 65  | 160003   | 40.49 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 80.98% |      |
| 35) Dibromofluoromethane    | 5.51   | 113 | 133048   | 39.41 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 78.82% |      |
| 50) Toluene-d8              | 8.72   | 98  | 502332   | 39.97 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 79.94% |      |
| 62) 4-Bromofluorobenzene    | 11.14  | 95  | 201045   | 38.66 | ug/l   | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 77.32% |      |

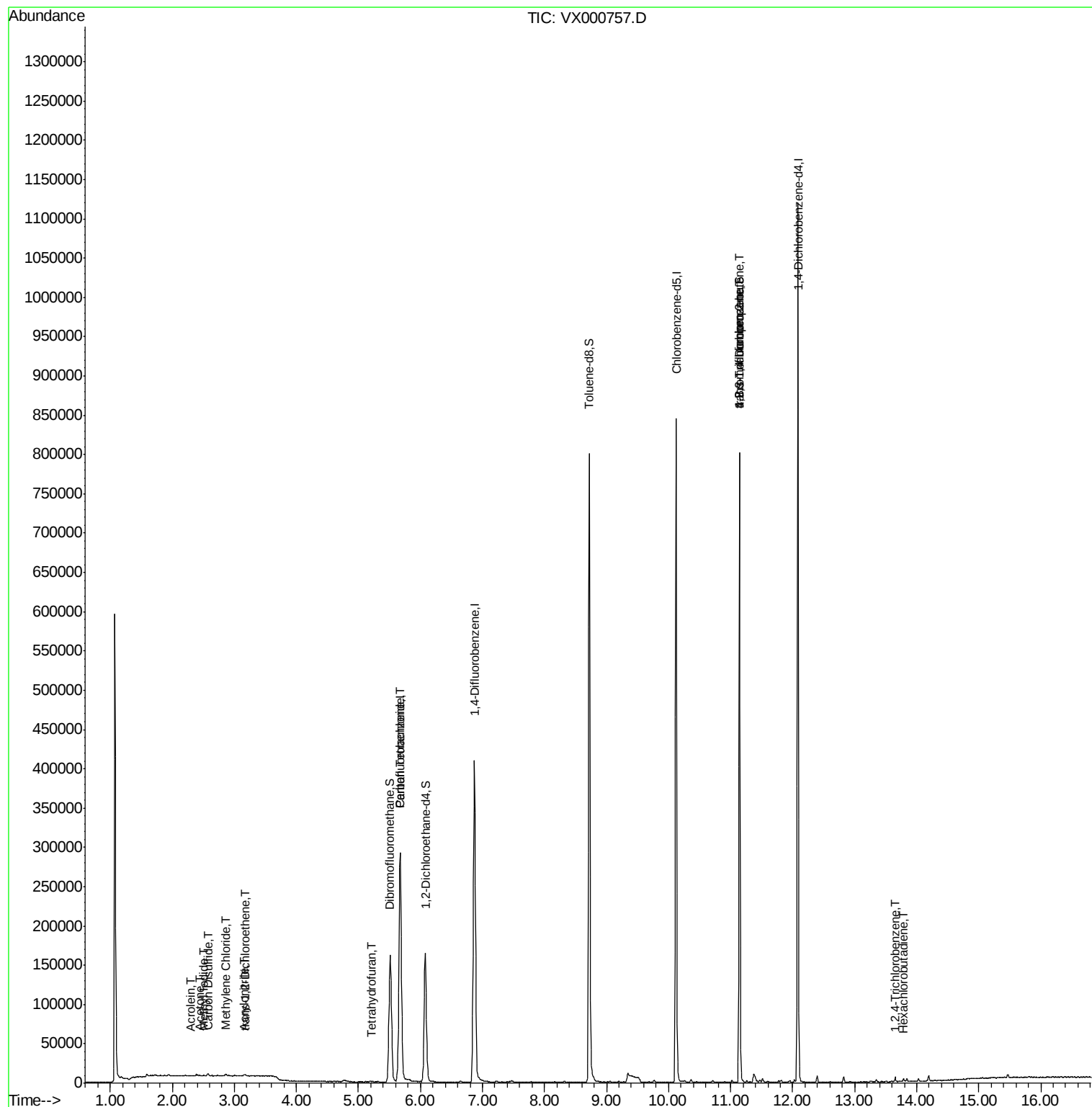
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.65  | 94   | 429      | Below Cal |        | 84     |
| 10) Methyl Iodide              | 2.51  | 142  | 435      | 8.38      | ug/l # | 87     |
| 13) Acrolein                   | 2.29  | 56   | 172      | 0.50      | ug/l # | 1      |
| 15) Acrylonitrile              | 3.16  | 53   | 459      | 0.31      | ug/l # | 64     |
| 16) Acetone                    | 2.45  | 43   | 733      | 0.54      | ug/l # | 81     |
| 17) Carbon Disulfide           | 2.57  | 76   | 2460     | 0.28      | ug/l   | 99     |
| 20) Methylene Chloride         | 2.87  | 84   | 864      | 0.27      | ug/l # | 61     |
| 21) trans-1,2-Dichloroethene   | 3.17  | 96   | 683      | 0.22      | ug/l # | 83     |
| 29) Tetrahydrofuran            | 5.20  | 42   | 402      | 0.28      | ug/l # | 53     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 26654    | 4.94      | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 98700    | 24.24     | ug/l # | 36     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 98700    | 66.69     | ug/l # | 11     |
| 93) 1,2,4-Trichlorobenzene     | 13.65 | 180  | 1729     | 0.26      | ug/l   | 92     |
| 94) Hexachlorobutadiene        | 13.79 | 225  | 701      | 0.21      | ug/l   | 97     |

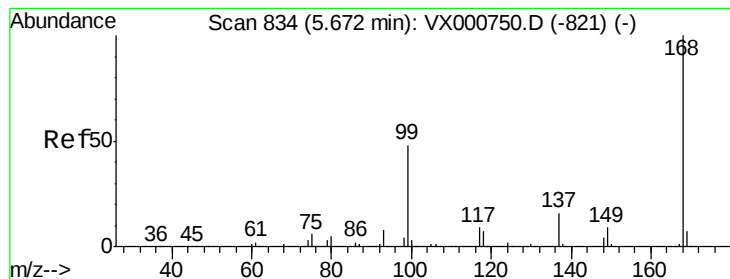
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : W:\HPCHEM1\MSVOA\_X\DATA\VX041018\  
Data File : VX000757.D  
Acq On : 10 Apr 2018 19:29  
Operator : JC/MD  
Sample : VX0410WBL01  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0410WBL01

Quant Time: Apr 11 08:16:45 2018  
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X041018W.M  
Quant Title : SW846 8260  
QLast Update : Tue Apr 10 15:49:28 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX000757.D

Acq: 10 Apr 2018 19:29

Instrument :

MSVOA\_X

ClientSampleId :

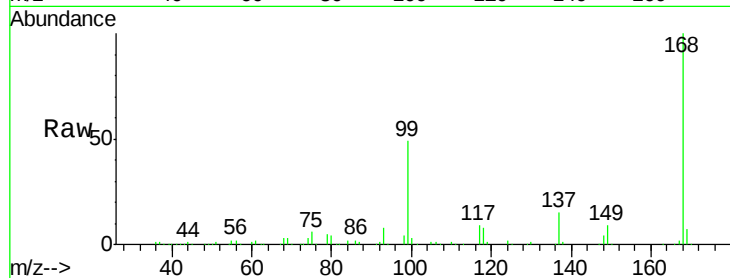
VX0410WBL01

Tgt Ion:168 Resp: 313403

Ion Ratio Lower Upper

168 100

99 48.9 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

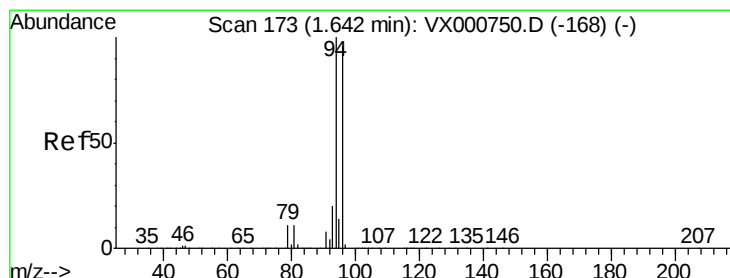
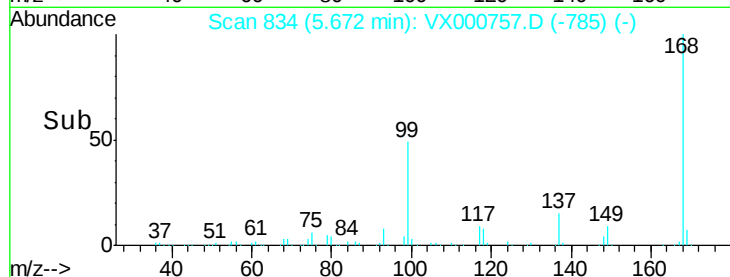
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.01 min

Lab File: VX000757.D

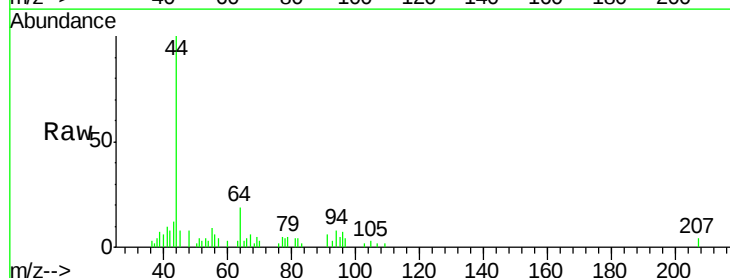
Acq: 10 Apr 2018 19:29

Tgt Ion: 94 Resp: 429

Ion Ratio Lower Upper

94 100

96 80.8 77.0 115.6



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

250

200

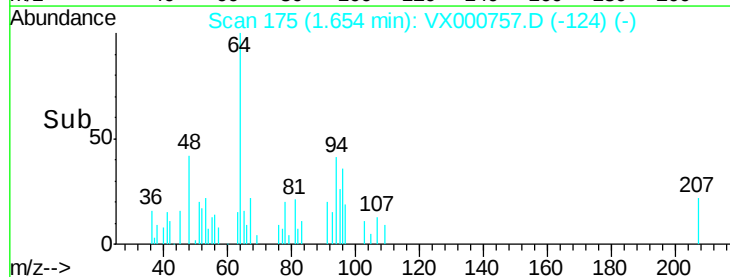
150

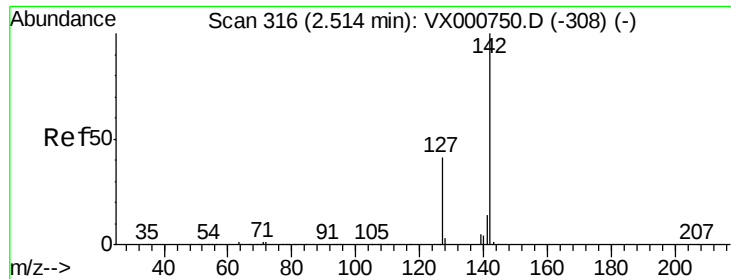
100

50

0

Time--> 1.60 1.65 1.70

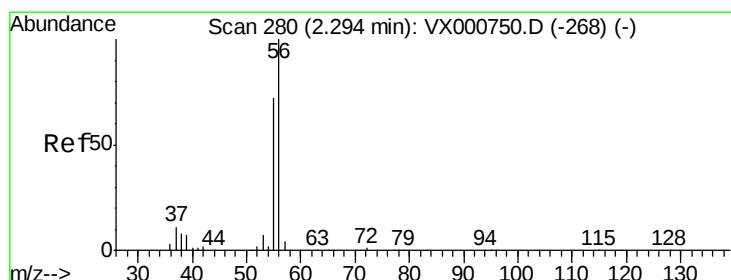
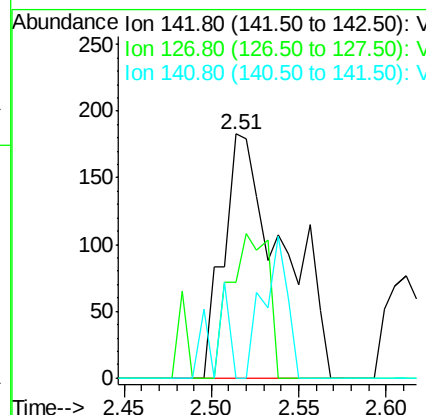
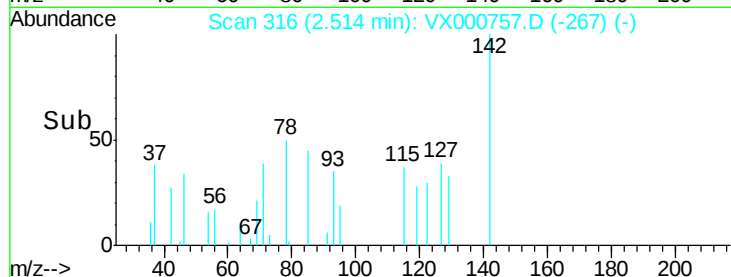
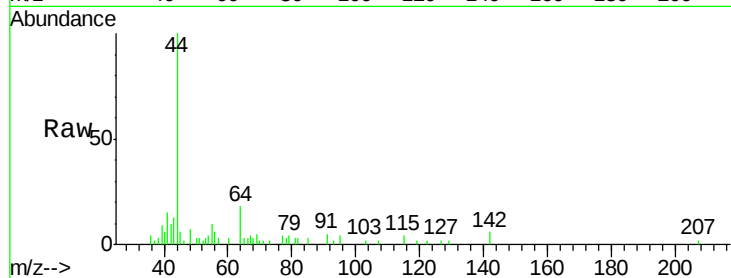




#10  
Methyl Iodide  
Concen: 8.38 ug/l  
RT: 2.51 min Scan# 316  
Delta R.T. 0.00 min  
Lab File: VX000757.D  
Acq: 10 Apr 2018 19:29

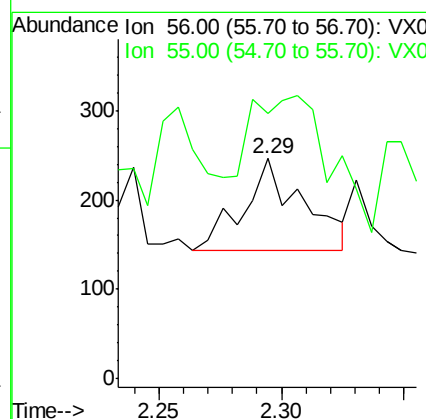
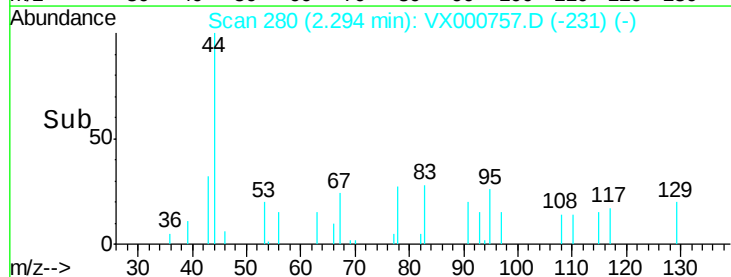
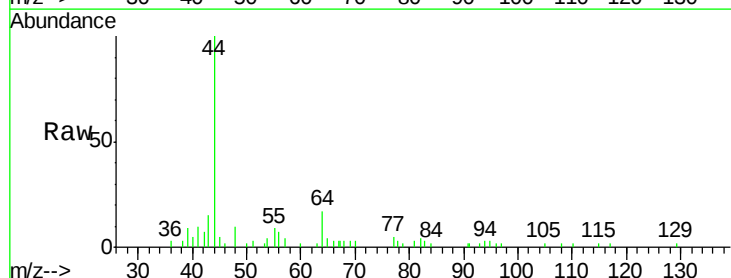
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0410WBL01

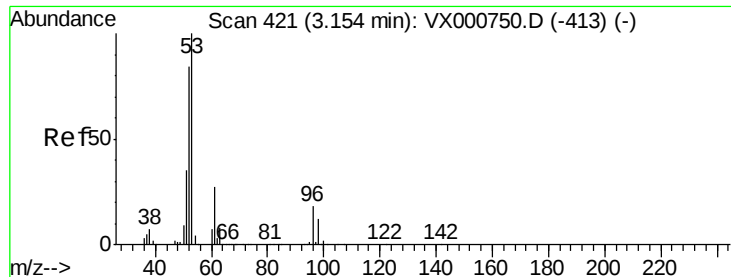
Tgt Ion:142 Resp: 435  
Ion Ratio Lower Upper  
142 100  
127 37.9 32.6 49.0  
141 0.0 11.5 17.3#



#13  
Acrolein  
Concen: 0.50 ug/l  
RT: 2.29 min Scan# 280  
Delta R.T. -0.00 min  
Lab File: VX000757.D  
Acq: 10 Apr 2018 19:29

Tgt Ion: 56 Resp: 172  
Ion Ratio Lower Upper  
56 100  
55 205.8 58.7 88.1#





#15

Acrylonitrile

Concen: 0.31 ug/l

RT: 3.16 min Scan# 422

Delta R.T. 0.01 min

Lab File: VX000757.D

Acq: 10 Apr 2018 19:29

Instrument :

MSVOA\_X

ClientSampleId :

VX0410WBL01

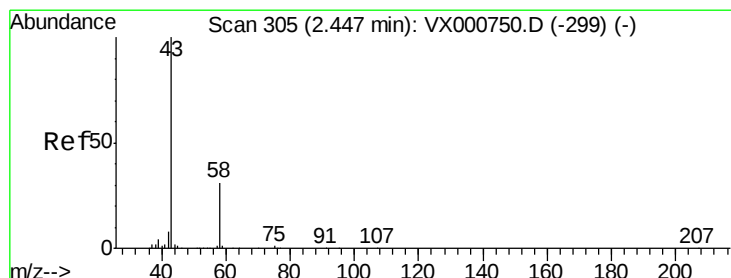
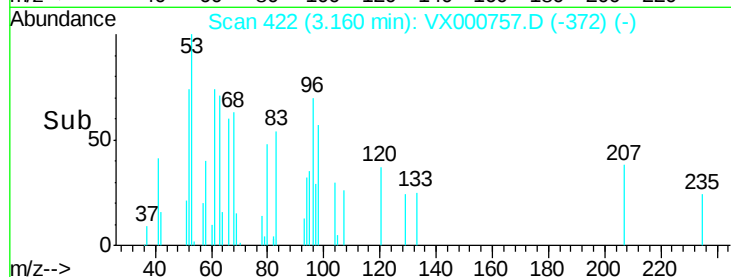
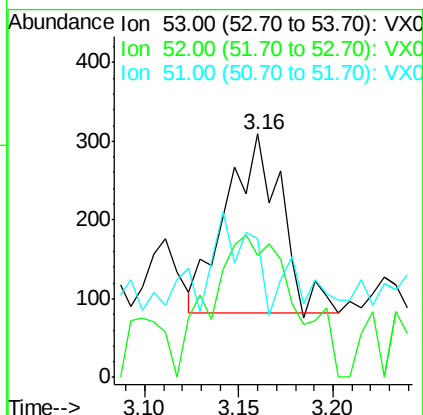
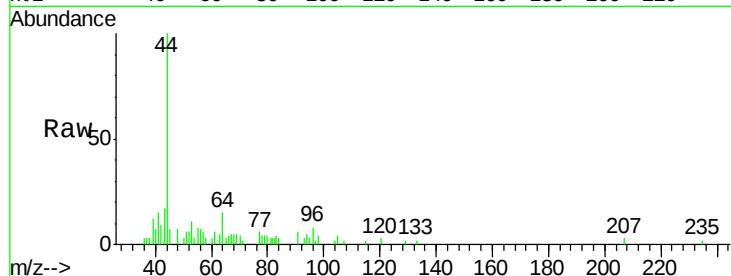
Tgt Ion: 53 Resp: 459

Ion Ratio Lower Upper

53 100

52 122.7 66.5 99.7#

51 46.0 28.8 43.2#



#16

Acetone

Concen: 0.54 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.00 min

Lab File: VX000757.D

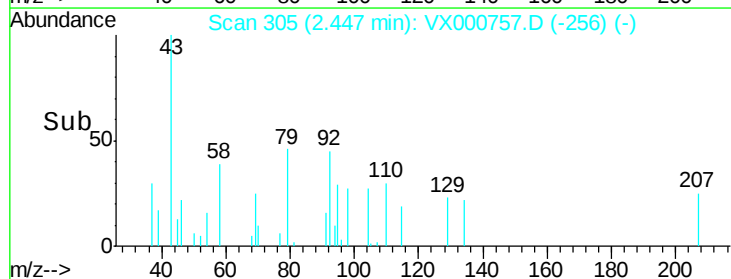
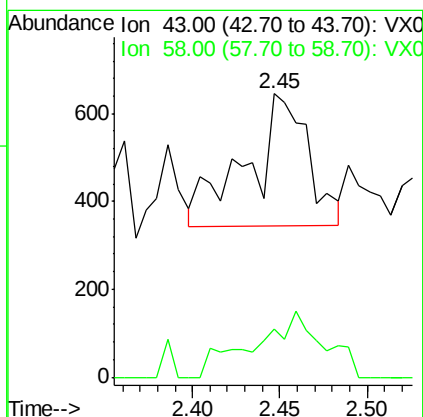
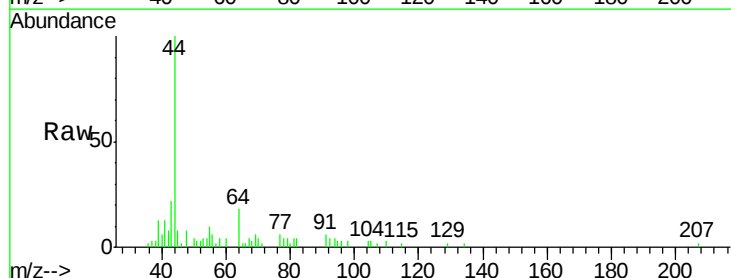
Acq: 10 Apr 2018 19:29

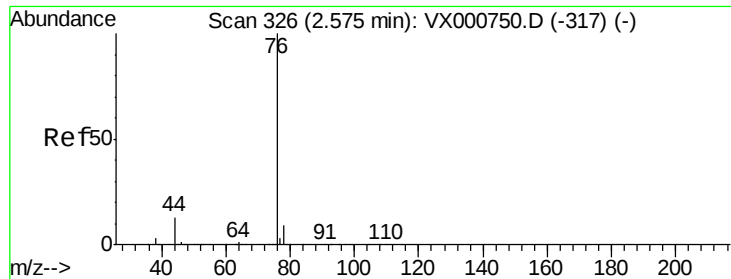
Tgt Ion: 43 Resp: 733

Ion Ratio Lower Upper

43 100

58 41.1 24.6 37.0#

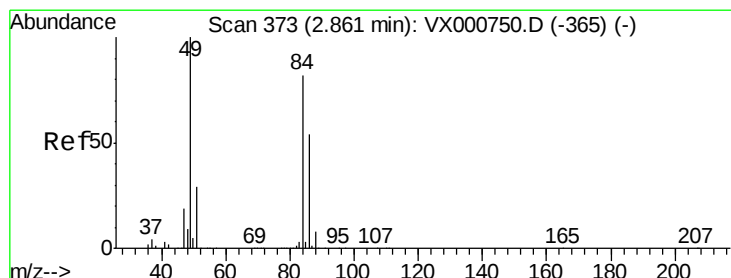
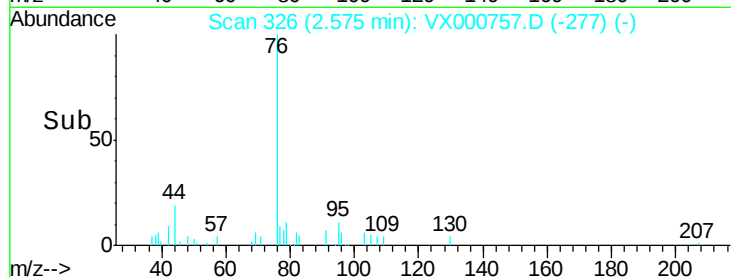
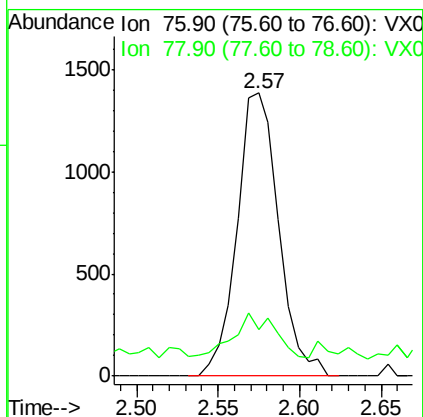
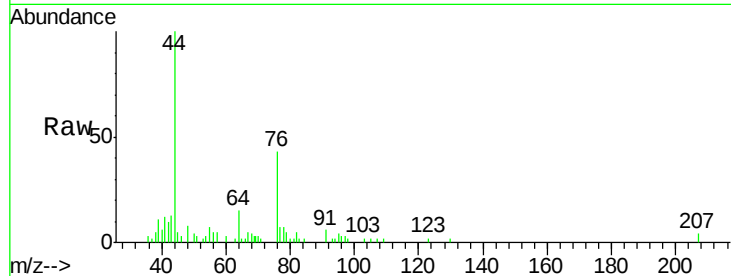




#17  
Carbon Disulfide  
Concen: 0.28 ug/l  
RT: 2.57 min Scan# 326  
Delta R.T. -0.00 min  
Lab File: VX000757.D  
Acq: 10 Apr 2018 19:29

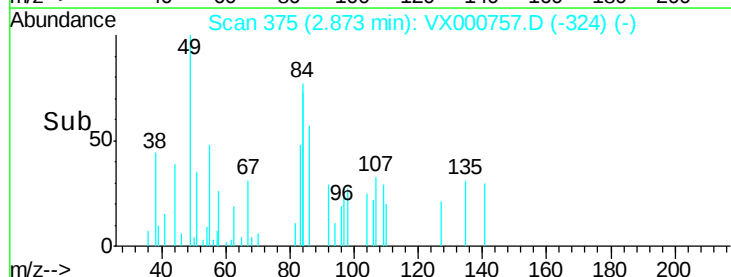
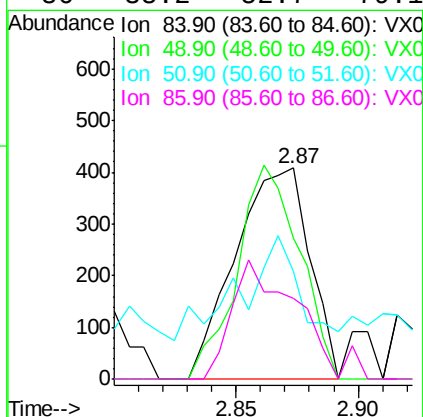
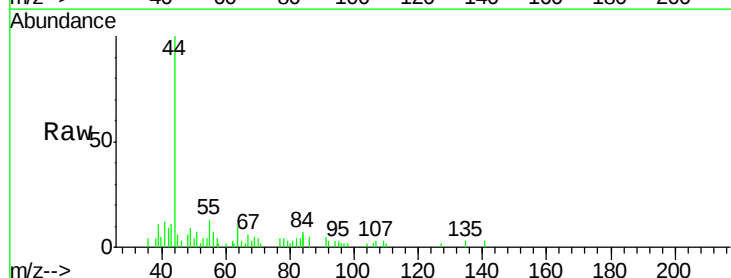
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0410WBL01

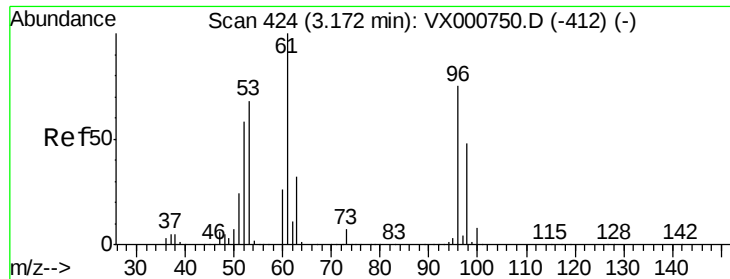
Tgt Ion: 76 Resp: 2460  
Ion Ratio Lower Upper  
76 100  
78 9.1 7.4 11.2



#20  
Methylene Chloride  
Concen: 0.27 ug/l  
RT: 2.87 min Scan# 375  
Delta R.T. 0.01 min  
Lab File: VX000757.D  
Acq: 10 Apr 2018 19:29

Tgt Ion: 84 Resp: 864  
Ion Ratio Lower Upper  
84 100  
49 66.7 98.1 147.1#  
51 28.4 28.9 43.3#  
86 38.2 52.7 79.1#





#21

trans-1,2-Dichloroethene

Concen: 0.22 ug/l

RT: 3.17 min Scan# 424

Delta R.T. -0.00 min

Lab File: VX000757.D

Acq: 10 Apr 2018 19:29

Instrument :

MSVOA\_X

ClientSampleId :

VX0410WBL01

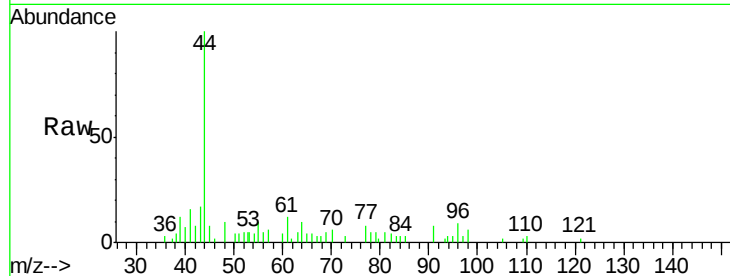
Tgt Ion: 96 Resp: 683

Ion Ratio Lower Upper

96 100

61 126.1 106.2 159.2

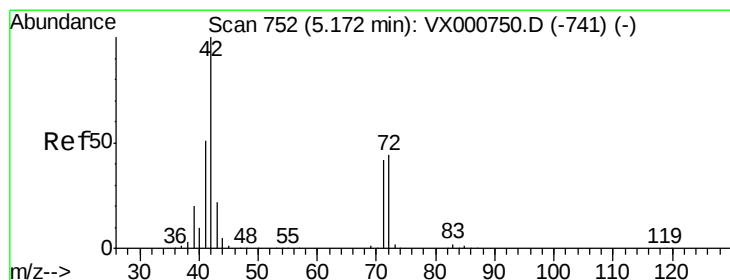
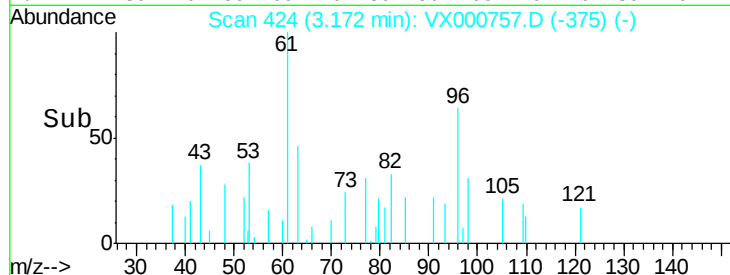
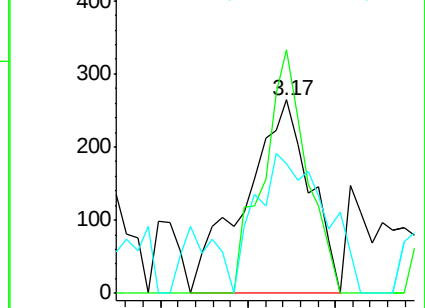
98 33.0 51.2 76.8#



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#29

Tetrahydrofuran

Concen: 0.28 ug/l

RT: 5.20 min Scan# 756

Delta R.T. 0.02 min

Lab File: VX000757.D

Acq: 10 Apr 2018 19:29

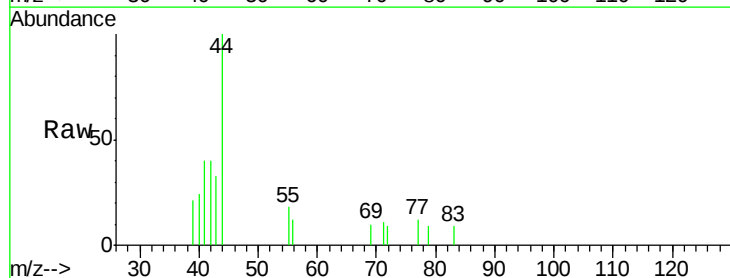
Tgt Ion: 42 Resp: 402

Ion Ratio Lower Upper

42 100

72 0.0 35.1 52.7#

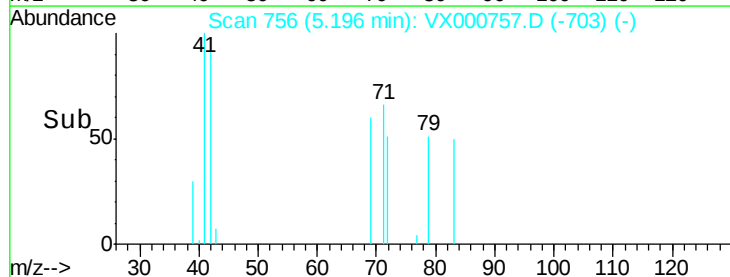
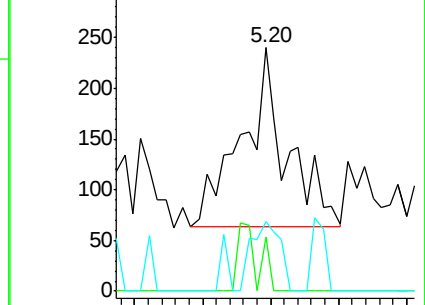
71 25.6 32.8 49.2#

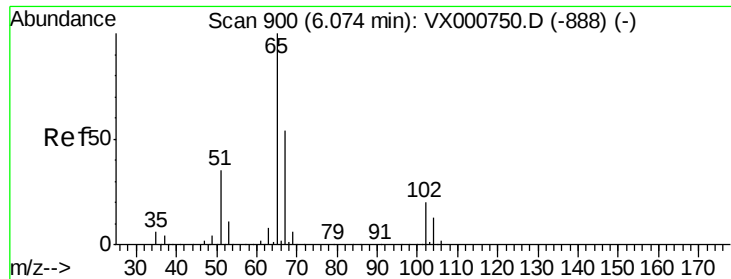


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 40.49 ug/l

RT: 6.08 min Scan# 901

Delta R.T. 0.01 min

Lab File: VX000757.D

Acq: 10 Apr 2018 19:29

Instrument :

MSVOA\_X

ClientSampleId :

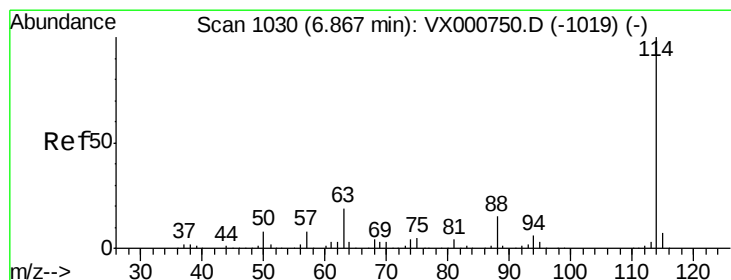
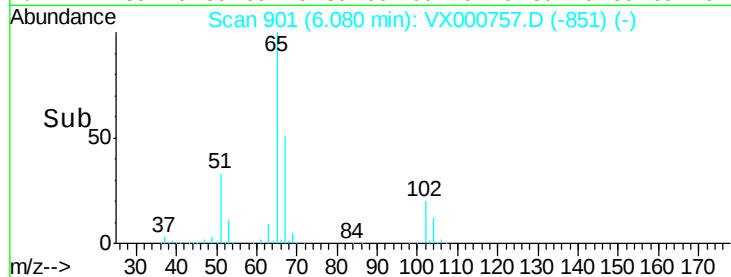
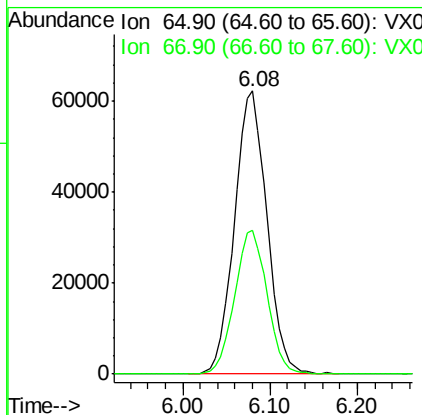
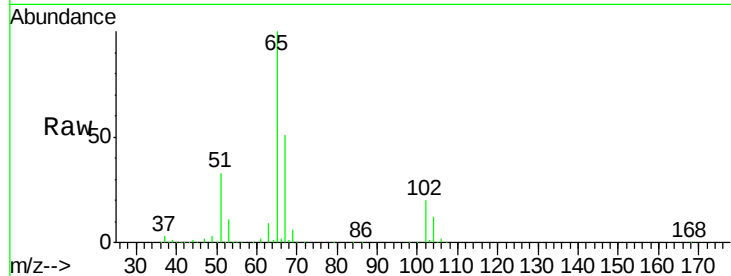
VX0410WBL01

Tgt Ion: 65 Resp: 160003

Ion Ratio Lower Upper

65 100

67 50.9 0.0 103.8



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VX000757.D

Acq: 10 Apr 2018 19:29

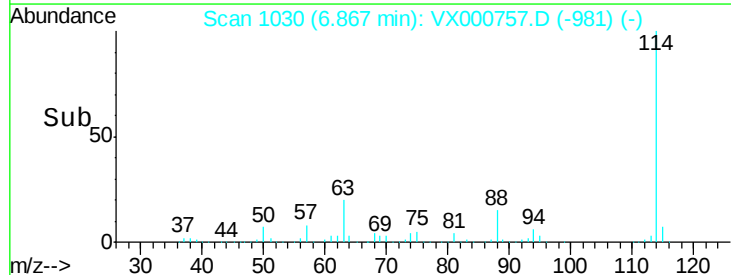
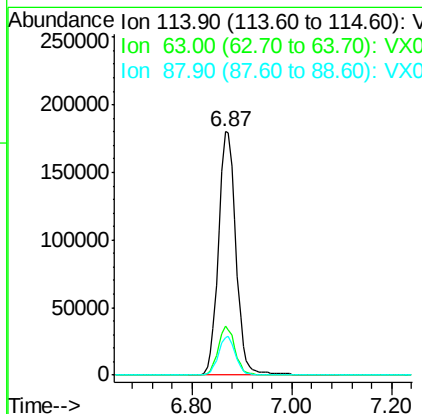
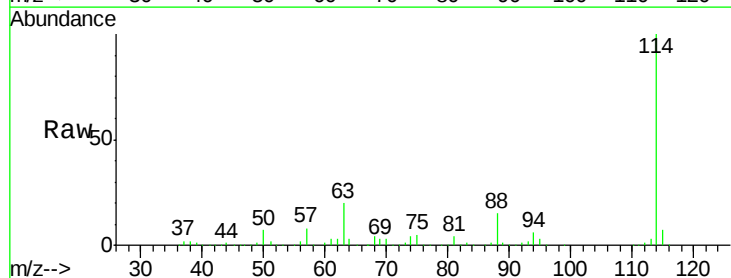
Tgt Ion: 114 Resp: 438156

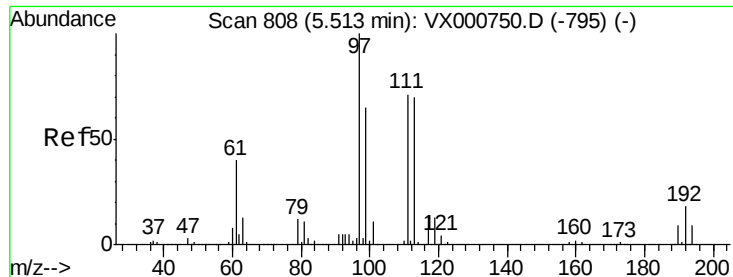
Ion Ratio Lower Upper

114 100

63 20.2 0.0 38.4

88 15.5 0.0 31.0

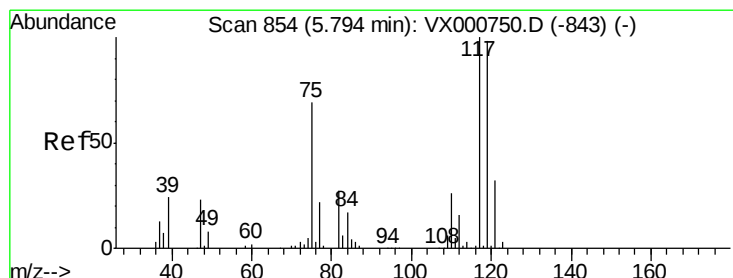
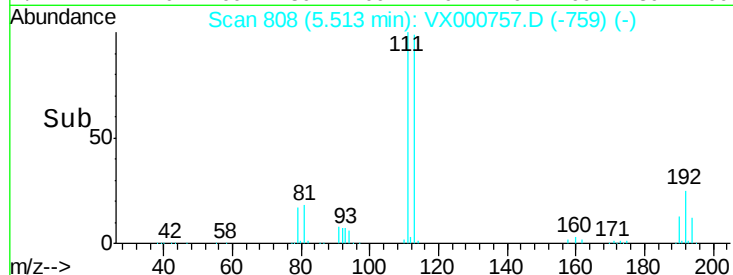
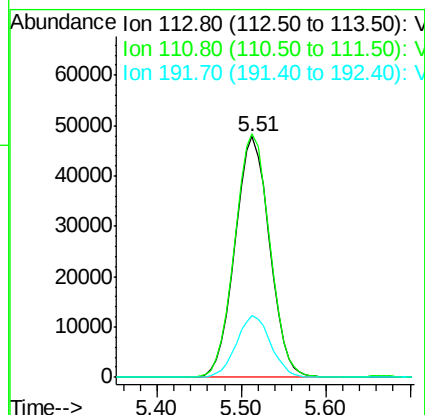
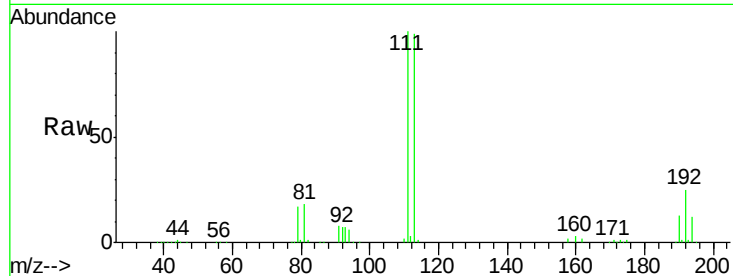




#35  
 Dibromofluoromethane  
 Concen: 39.41 ug/l  
 RT: 5.51 min Scan# 808  
 Delta R.T. -0.00 min  
 Lab File: VX000757.D  
 Acq: 10 Apr 2018 19:29

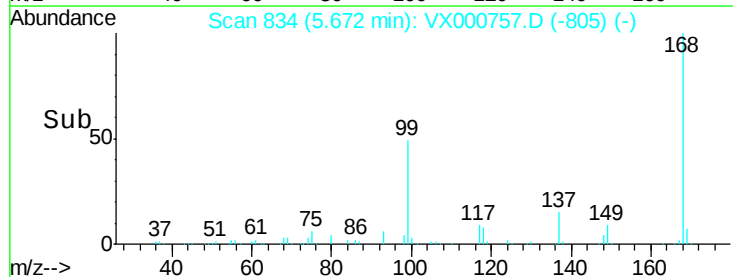
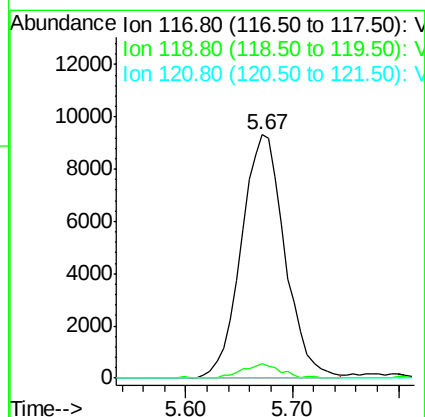
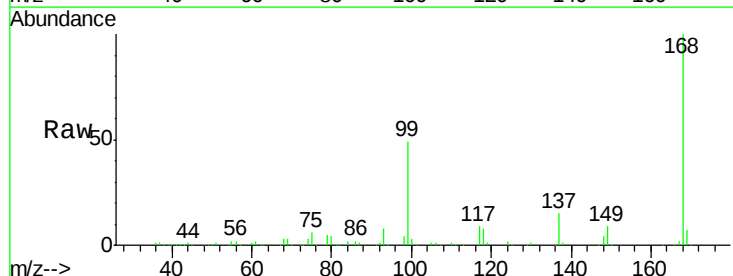
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0410WBL01

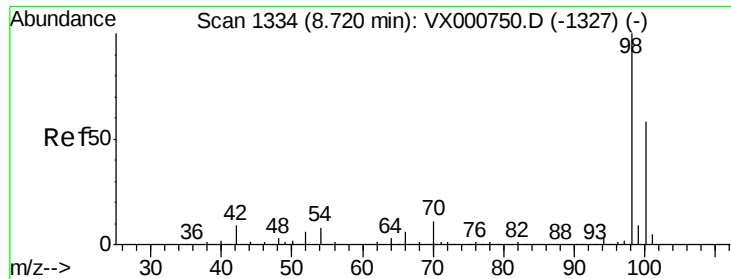
Tgt Ion:113 Resp: 133048  
 Ion Ratio Lower Upper  
 113 100  
 111 102.1 81.5 122.3  
 192 25.5 20.4 30.6



#38  
 Carbon Tetrachloride  
 Concen: 4.94 ug/l  
 RT: 5.67 min Scan# 834  
 Delta R.T. -0.12 min  
 Lab File: VX000757.D  
 Acq: 10 Apr 2018 19:29

Tgt Ion:117 Resp: 26654  
 Ion Ratio Lower Upper  
 117 100  
 119 6.1 78.4 117.6#  
 121 0.0 25.4 38.0#

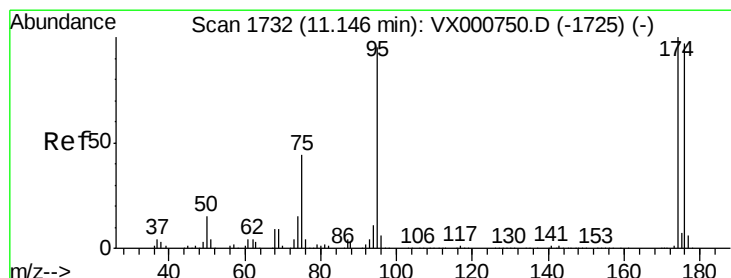
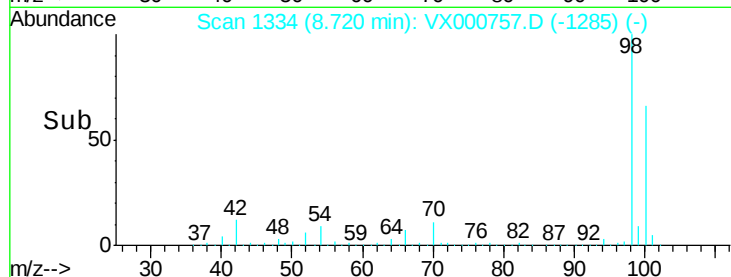
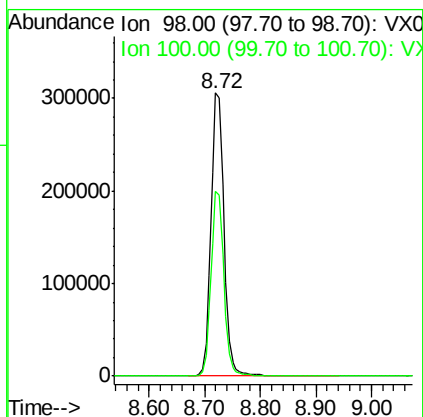
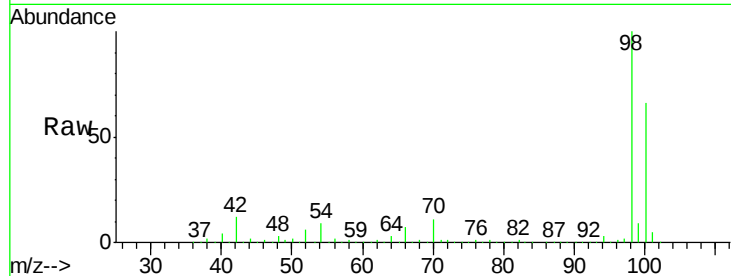




#50  
Toluene-d8  
Concen: 39.97 ug/l  
RT: 8.72 min Scan# 1334  
Delta R.T. -0.00 min  
Lab File: VX000757.D  
Acq: 10 Apr 2018 19:29

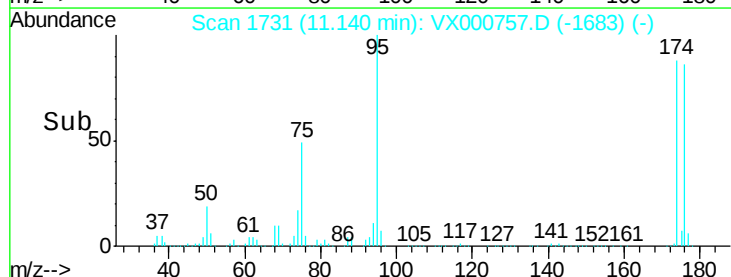
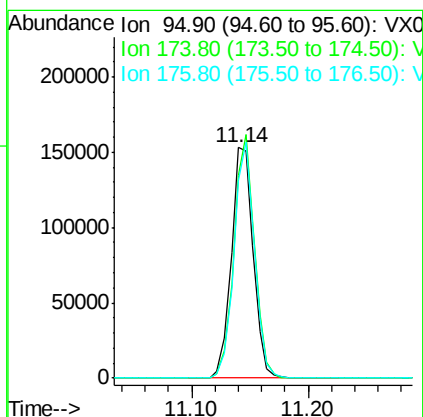
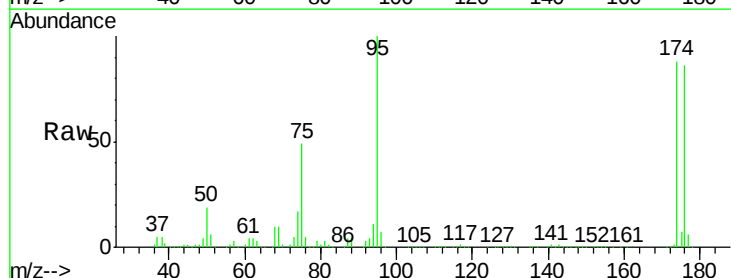
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0410WBL01

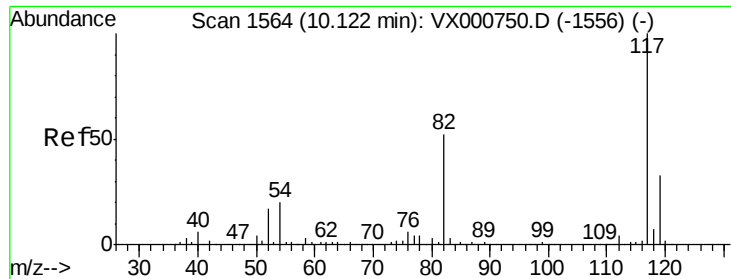
Tgt Ion: 98 Resp: 502332  
Ion Ratio Lower Upper  
98 100  
100 64.7 52.6 79.0



#62  
4-Bromofluorobenzene  
Concen: 38.66 ug/l  
RT: 11.14 min Scan# 1731  
Delta R.T. -0.01 min  
Lab File: VX000757.D  
Acq: 10 Apr 2018 19:29

Tgt Ion: 95 Resp: 201045  
Ion Ratio Lower Upper  
95 100  
174 98.7 0.0 198.4  
176 95.6 0.0 194.4

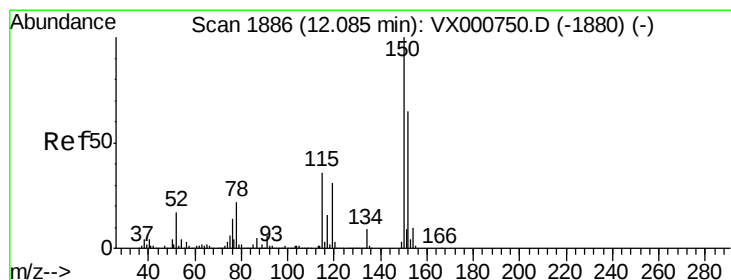
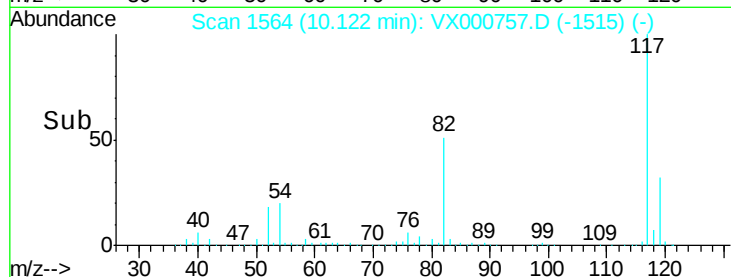
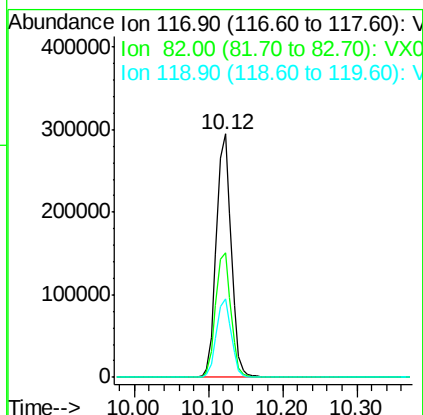
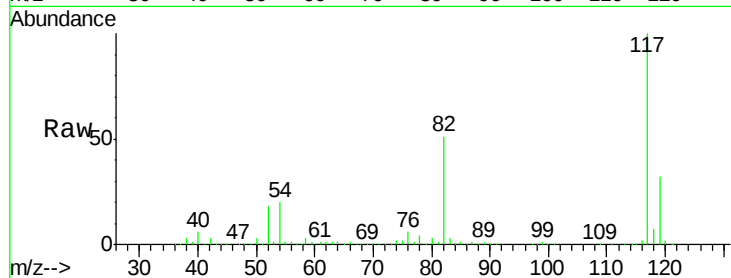




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1564  
Delta R.T. -0.00 min  
Lab File: VX000757.D  
Acq: 10 Apr 2018 19:29

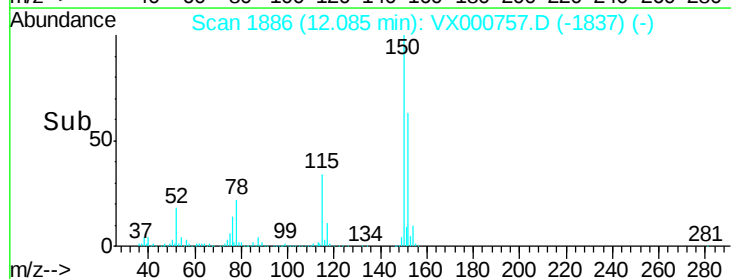
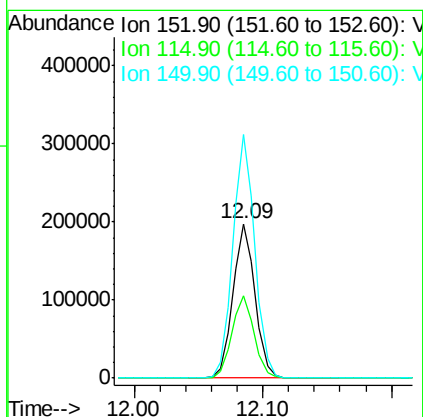
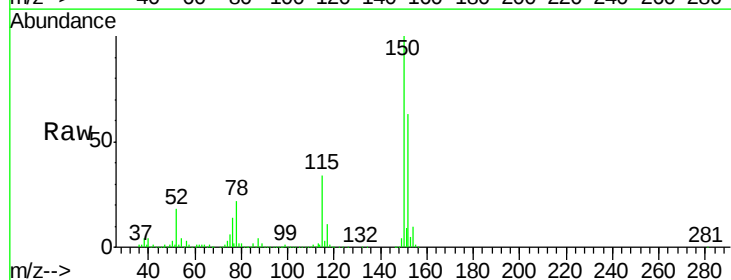
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0410WBL01

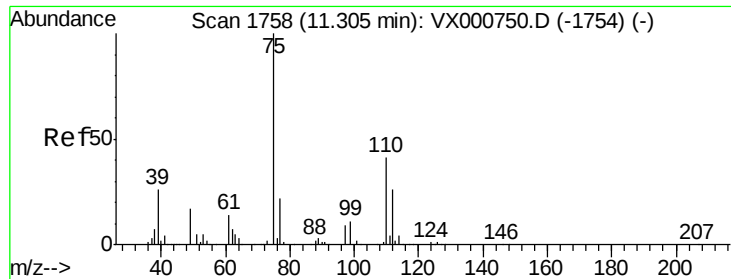
Tgt Ion:117 Resp: 403690  
Ion Ratio Lower Upper  
117 100  
82 51.1 41.9 62.9  
119 32.4 26.0 39.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 12.09 min Scan# 1886  
Delta R.T. -0.00 min  
Lab File: VX000757.D  
Acq: 10 Apr 2018 19:29

Tgt Ion:152 Resp: 236075  
Ion Ratio Lower Upper  
152 100  
115 53.7 37.9 113.7  
150 157.2 0.0 348.0

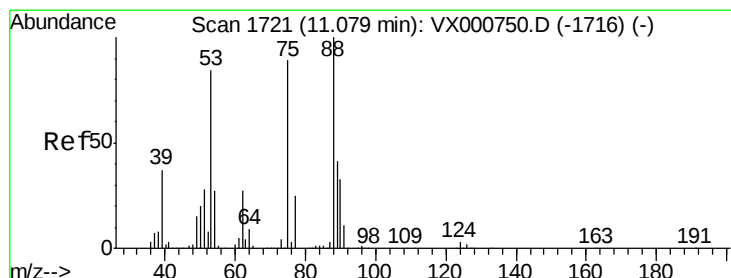
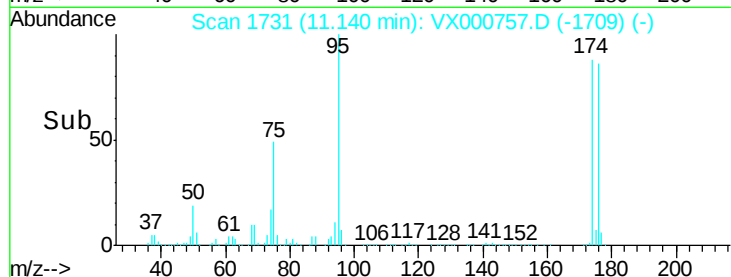
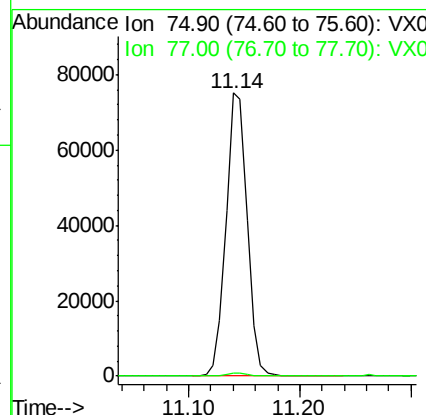
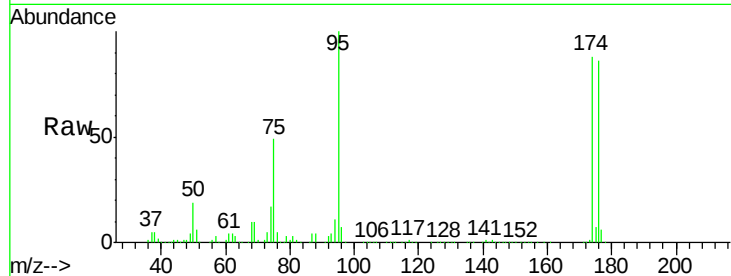




#76  
 1,2,3-Trichloropropane  
 Concen: 24.24 ug/l  
 RT: 11.14 min Scan# 1731  
 Delta R.T. -0.16 min  
 Lab File: VX000757.D  
 Acq: 10 Apr 2018 19:29

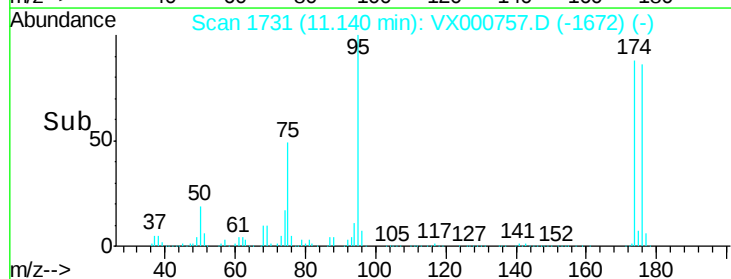
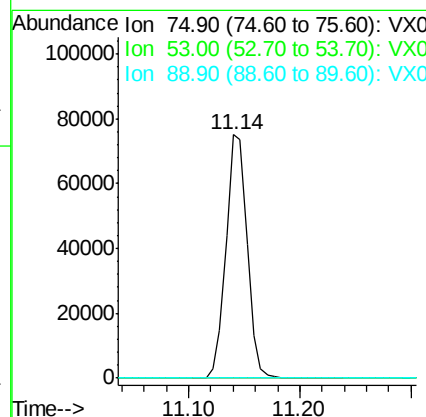
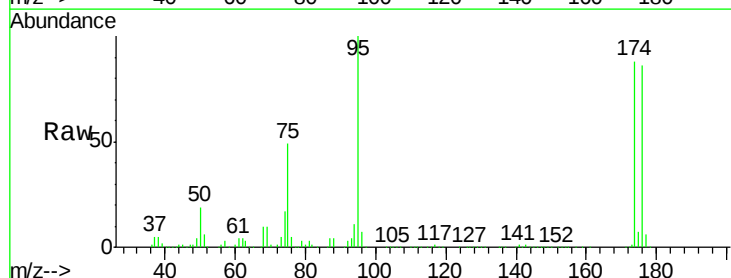
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0410WBL01

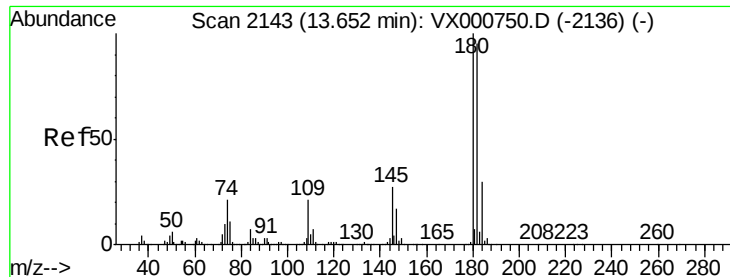
Tgt Ion: 75 Resp: 98700  
 Ion Ratio Lower Upper  
 75 100  
 77 1.1 20.5 61.5#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 66.69 ug/l  
 RT: 11.14 min Scan# 1731  
 Delta R.T. 0.06 min  
 Lab File: VX000757.D  
 Acq: 10 Apr 2018 19:29

Tgt Ion: 75 Resp: 98700  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 75.4 113.0#  
 89 0.0 40.9 61.3#

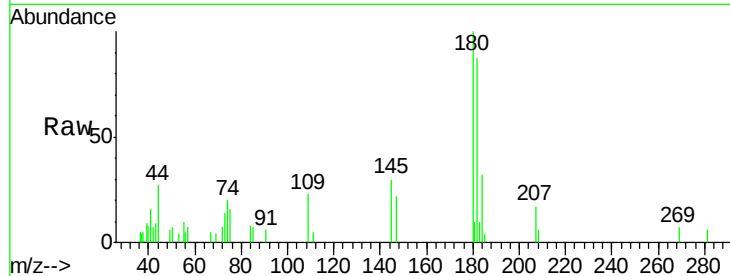




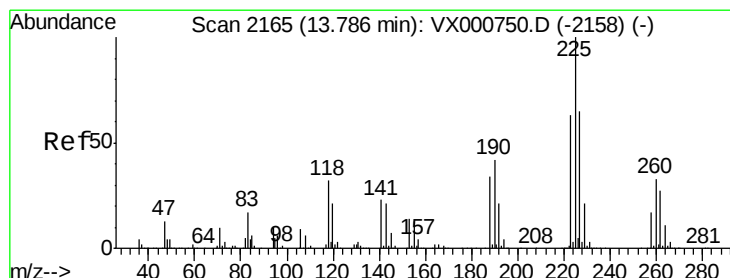
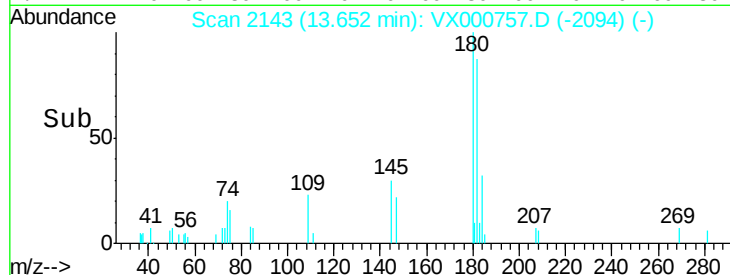
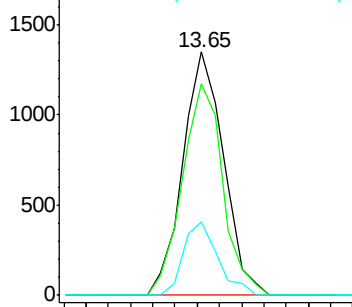
#93  
 1,2,4-Trichlorobenzene  
 Concen: 0.26 ug/l  
 RT: 13.65 min Scan# 2143  
 Delta R.T. -0.00 min  
 Lab File: VX000757.D  
 Acq: 10 Apr 2018 19:29

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0410WBL01

Tgt Ion:180 Resp: 1729  
 Ion Ratio Lower Upper  
 180 100  
 182 85.8 47.5 142.5  
 145 25.7 13.8 41.4

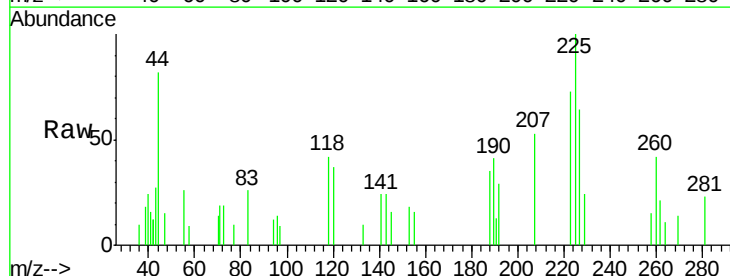


Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V



#94  
 Hexachlorobutadiene  
 Concen: 0.21 ug/l  
 RT: 13.79 min Scan# 2165  
 Delta R.T. -0.00 min  
 Lab File: VX000757.D  
 Acq: 10 Apr 2018 19:29

Tgt Ion:225 Resp: 701  
 Ion Ratio Lower Upper  
 225 100  
 223 65.2 31.2 93.6  
 227 63.2 32.3 96.9



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

