

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX030918\  
 Data File : VX000256.D  
 Acq On : 09 Mar 2018 15:33  
 Operator : JC/MD  
 Sample : J1839-04  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Mar 09 16:29:29 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X030718W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 08 02:15:47 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.68  | 168  | 95587    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 163104   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 151329   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 79559    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.08  | 65   | 56717    | 42.80 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 85.60% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 41668    | 40.67 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 81.34% |          |
| 50) Toluene-d8              | 8.73  | 98   | 162243   | 38.23 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 76.46% |          |
| 62) 4-Bromofluorobenzene    | 11.15 | 95   | 58228    | 35.16 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 70.32% |          |

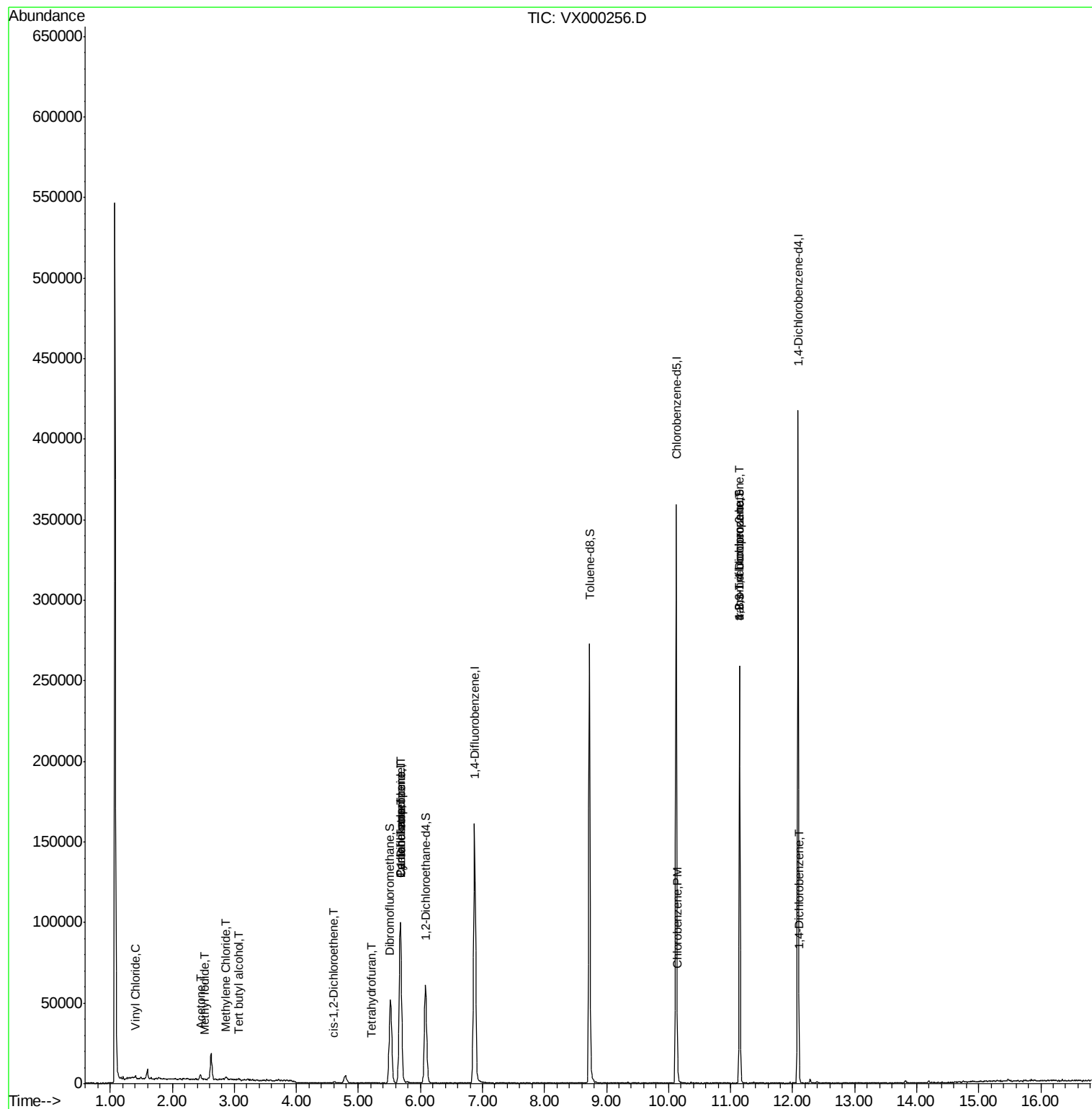
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 4) Vinyl Chloride              | 1.40  | 62   | 1168     | 0.986     | ug/l   | 99     |
| 5) Bromomethane                | 1.65  | 94   | 422      | Below Cal |        | 86     |
| 6) Chloroethane                | 1.72  | 64   | 138      | Below Cal | #      | 42     |
| 10) Methyl Iodide              | 2.52  | 142  | 155      | 3.272     | ug/l # | 43     |
| 11) Tert butyl alcohol         | 3.08  | 59   | 1139     | 2.339     | ug/l # | 94     |
| 16) Acetone                    | 2.45  | 43   | 4012     | 4.216     | ug/l # | 86     |
| 20) Methylene Chloride         | 2.86  | 84   | 575      | 0.507     | ug/l # | 85     |
| 27) cis-1,2-Dichloroethene     | 4.60  | 96   | 470      | 0.447     | ug/l # | 1      |
| 29) Tetrahydrofuran            | 5.20  | 42   | 297      | 0.403     | ug/l # | 31     |
| 31) Cyclohexane                | 5.68  | 56   | 2624     | 1.810     | ug/l # | 40     |
| 36) 1,1-Dichloropropene        | 5.68  | 75   | 7656     | 5.275     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 5.68  | 117  | 9580     | 6.523     | ug/l # | 15     |
| 65) Chlorobenzene              | 10.15 | 112  | 831      | 0.272     | ug/l # | 62     |
| 76) 1,2,3-Trichloropropane     | 11.15 | 75   | 33360    | 20.918    | ug/l # | 34     |
| 81) trans-1,4-Dichloro-2-buten | 11.15 | 75   | 33360    | 64.054    | ug/l # | 10     |
| 88) 1,4-Dichlorobenzene        | 12.11 | 146  | 547      | 0.213     | ug/l # | 1      |

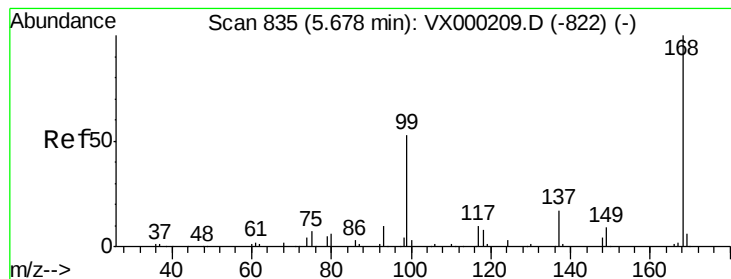
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX030918\  
Data File : VX000256.D  
Acq On : 09 Mar 2018 15:33  
Operator : JC/MD  
Sample : J1839-04  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Mar 09 16:29:29 2018  
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X030718W.M  
Quant Title : SW846 8260  
QLast Update : Thu Mar 08 02:15:47 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.68 min Scan# 835

Delta R.T. -0.00 min

Lab File: VX000256.D

Acq: 09 Mar 2018 15:33

Instrument :

MSVOA\_X

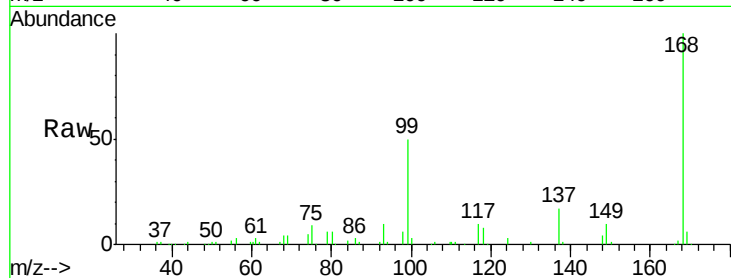
ClientSampleId :

Tot Ion:168 Resp: 95587

Ion Ratio Lower Upper

168 100

99 50.5 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.68

30000

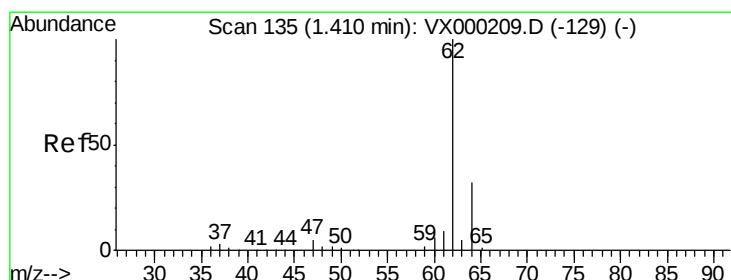
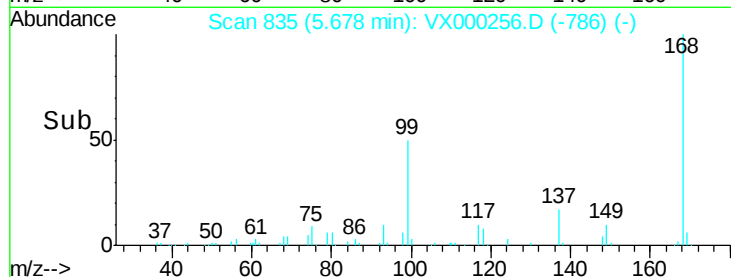
20000

10000

0

Time-->

5.60 5.70 5.80



#4

Vinyl Chloride

Concen: 0.986 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.01 min

Lab File: VX000256.D

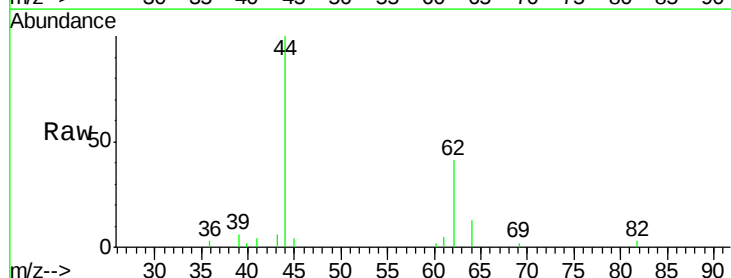
Acq: 09 Mar 2018 15:33

Tgt Ion: 62 Resp: 1168

Ion Ratio Lower Upper

62 100

64 32.6 25.7 38.5



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.40

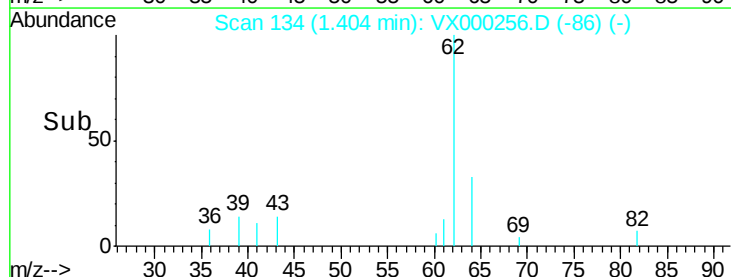
1000

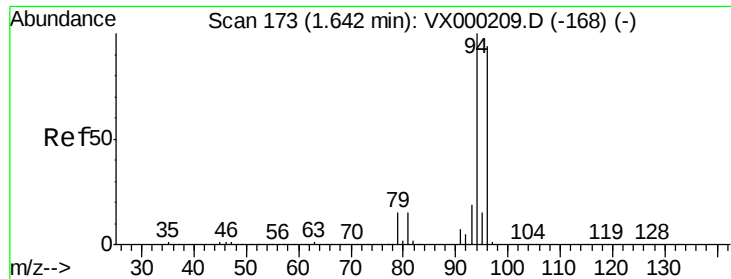
500

0

Time-->

1.40 1.45





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 175

Delta R.T. 0.01 min

Lab File: VX000256.D

Acq: 09 Mar 2018 15:33

Instrument :

MSVOA\_X

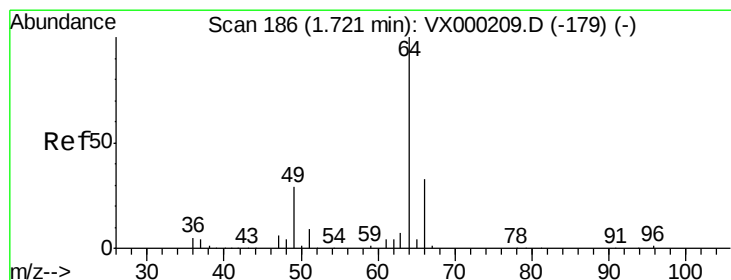
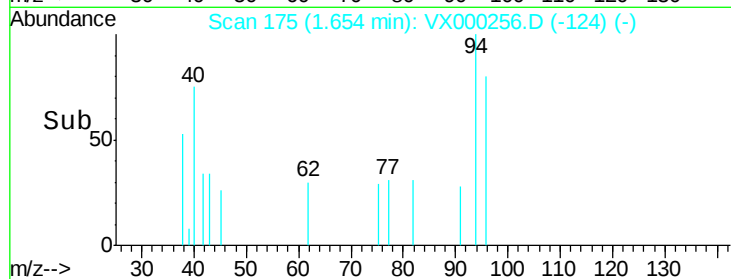
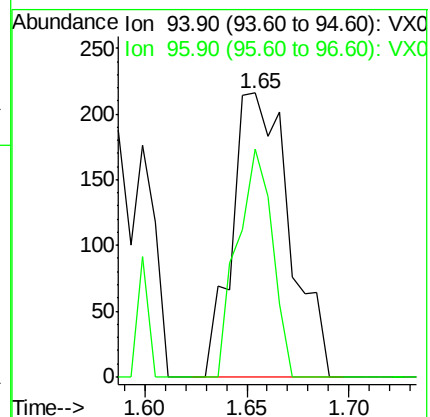
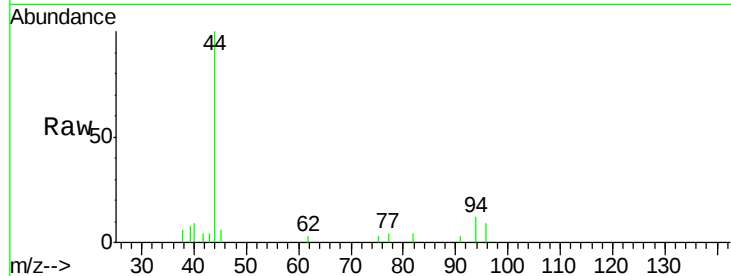
ClientSampled :

Tot Ion: 94 Resp: 422

Ion Ratio Lower Upper

94 100

96 80.1 75.3 112.9



#6

Chloroethane

Concen: Below Cal

RT: 1.72 min Scan# 186

Delta R.T. 0.00 min

Lab File: VX000256.D

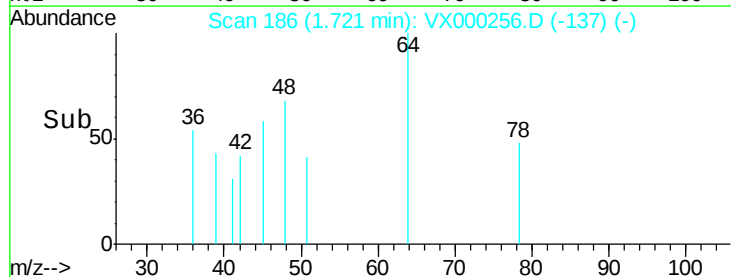
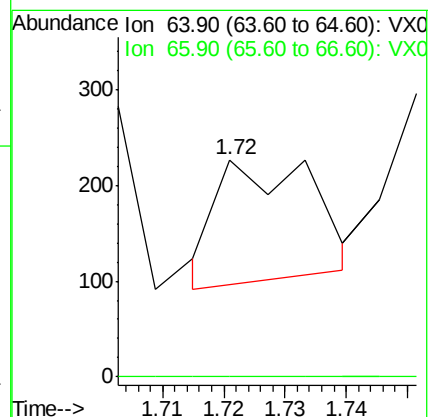
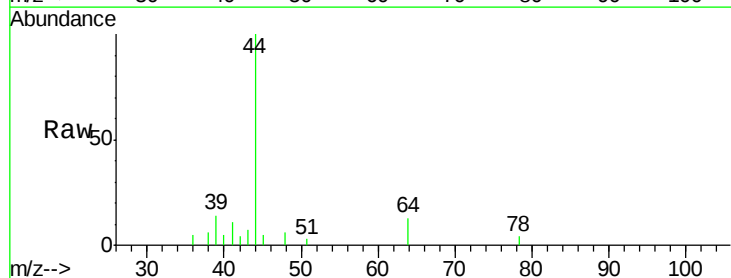
Acq: 09 Mar 2018 15:33

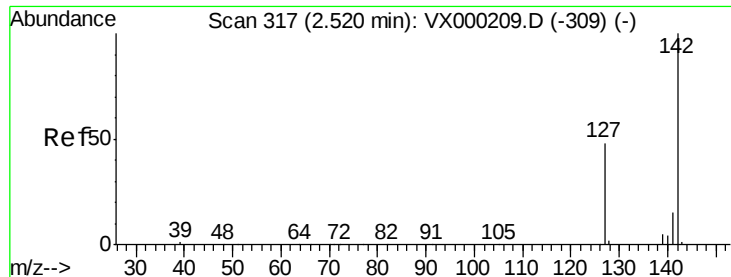
Tgt Ion: 64 Resp: 138

Ion Ratio Lower Upper

64 100

66 0.0 26.2 39.4#

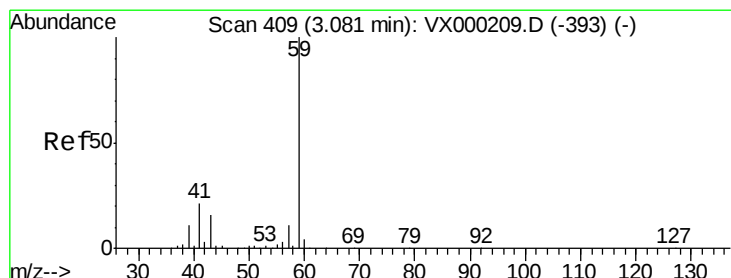
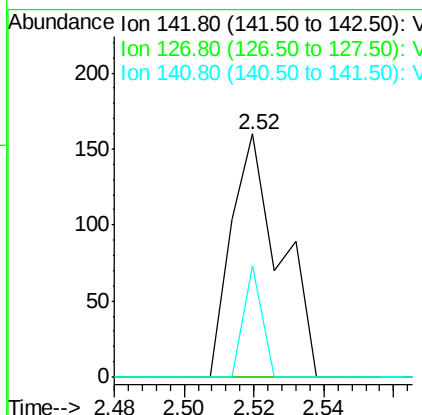
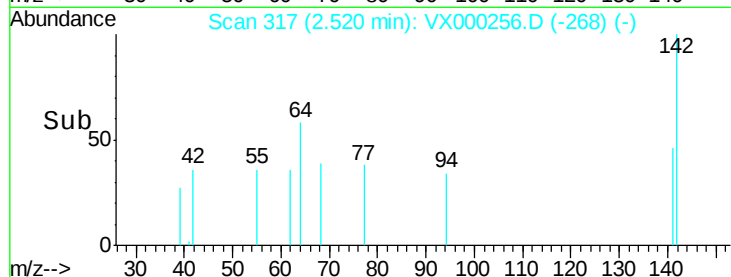
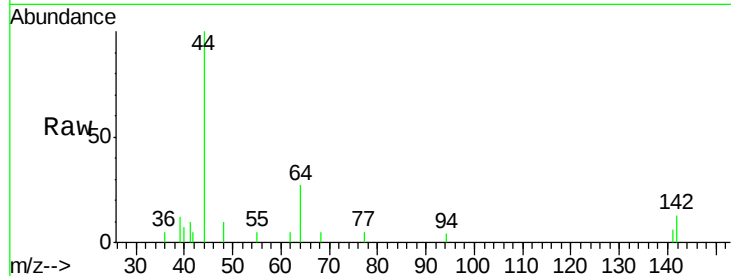




#10  
Methvl Iodide  
Concen: 3.272 ug/l  
RT: 2.52 min Scan# 317  
Delta R.T. 0.00 min  
Lab File: VX000256.D  
Acq: 09 Mar 2018 15:33

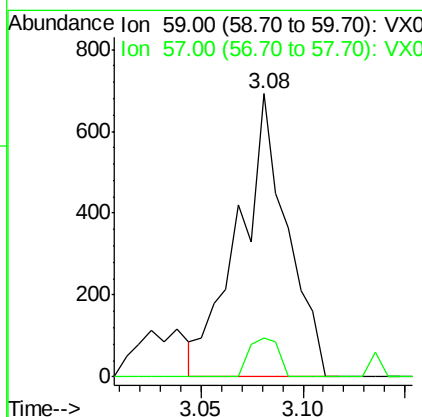
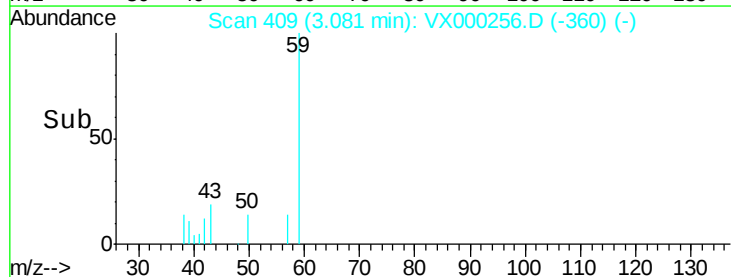
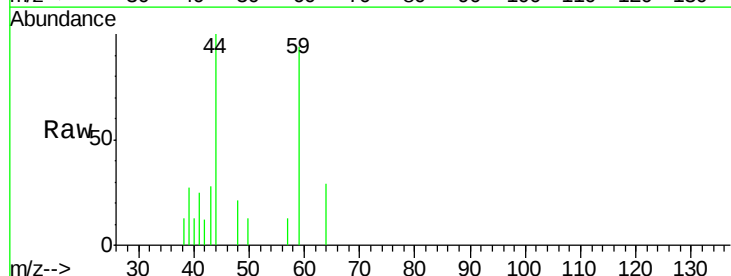
Instrument :  
MSVOA\_X  
ClientSampled :

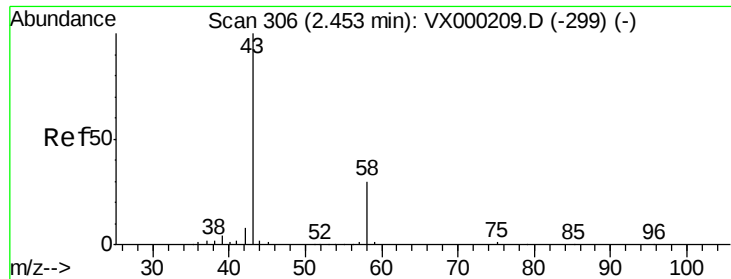
Tot Ion:142 Resp: 155  
Ion Ratio Lower Upper  
142 100  
127 0.0 39.0 58.6#  
141 17.4 11.6 17.4#



#11  
Tert butyl alcohol  
Concen: 2.339 ug/l  
RT: 3.08 min Scan# 409  
Delta R.T. -0.00 min  
Lab File: VX000256.D  
Acq: 09 Mar 2018 15:33

Tgt Ion: 59 Resp: 1139  
Ion Ratio Lower Upper  
59 100  
57 8.3 8.4 12.6#





#16

Acetone

Concen: 4.216 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX000256.D

Acq: 09 Mar 2018 15:33

Instrument :

MSVOA\_X

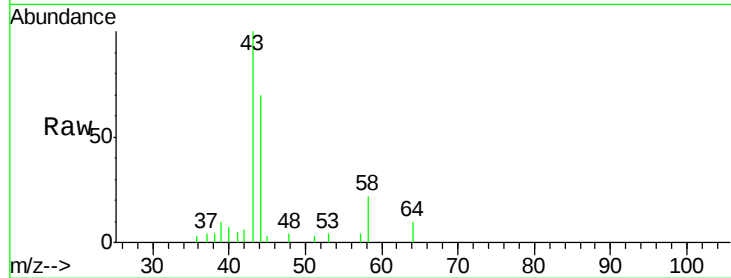
ClientSampleId :

Tot Ion: 43 Resp: 4012

Ion Ratio Lower Upper

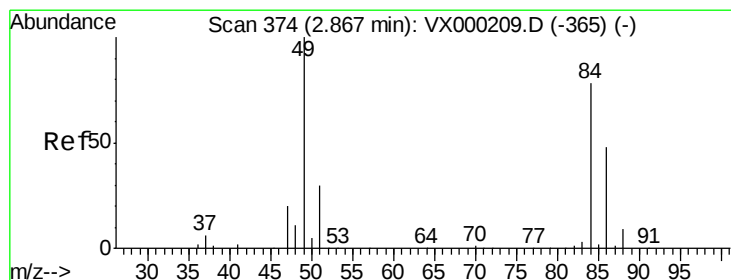
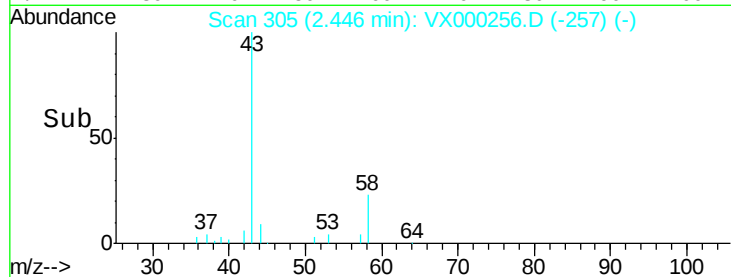
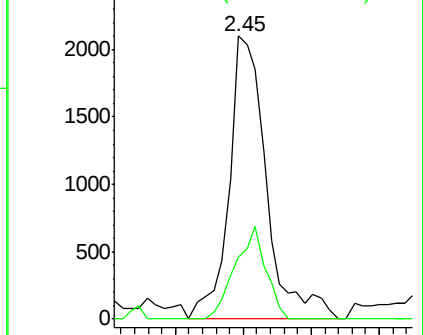
43 100

58 22.0 23.8 35.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#20

Methylene Chloride

Concen: 0.507 ug/l

RT: 2.86 min Scan# 373

Delta R.T. -0.01 min

Lab File: VX000256.D

Acq: 09 Mar 2018 15:33

Tgt Ion: 84 Resp: 575

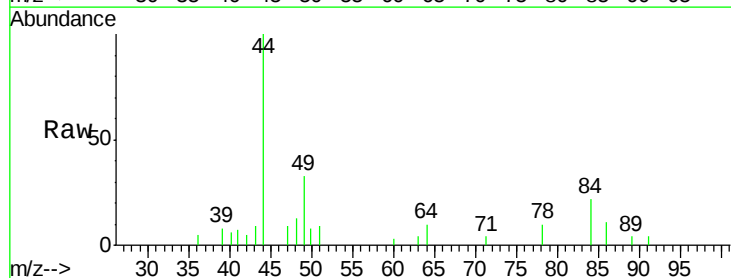
Ion Ratio Lower Upper

84 100

49 147.5 102.1 153.1

51 38.9 30.6 45.8

86 48.1 49.0 73.6#

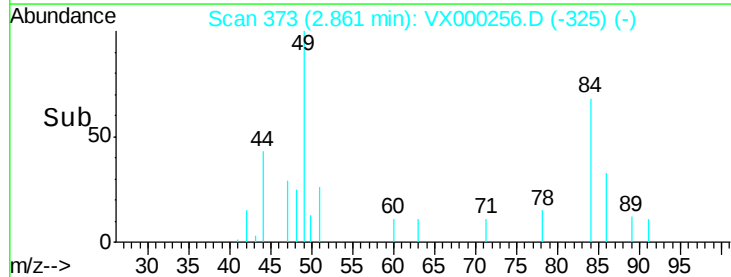
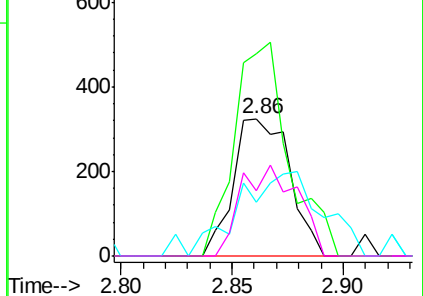


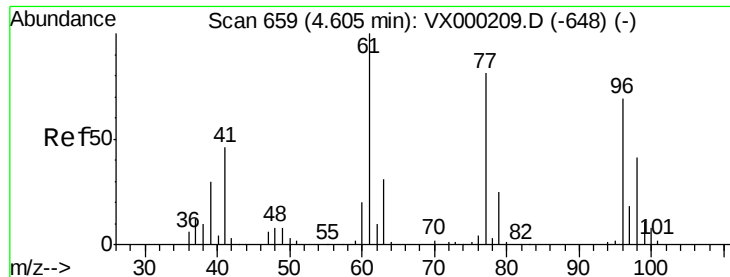
Abundance Ion 83.90 (83.60 to 84.60): VX0

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



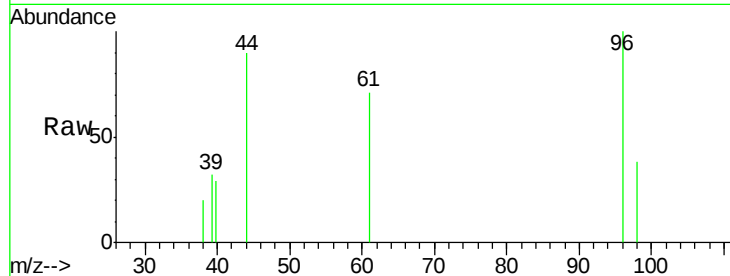


#27

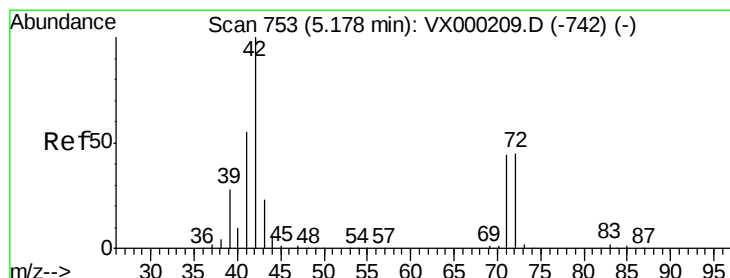
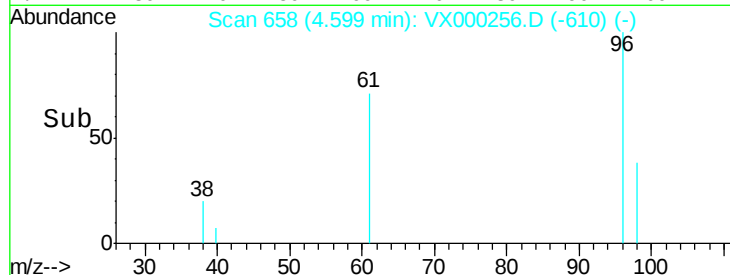
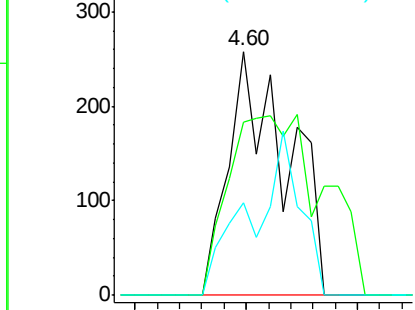
cis-1,2-Dichloroethene  
Concen: 0.447 ug/l  
RT: 4.60 min Scan# 658  
Delta R.T. -0.01 min  
Lab File: VX000256.D  
Acq: 09 Mar 2018 15:33

Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion: 96 Resp: 470  
Ion Ratio Lower Upper  
96 100  
61 0.0 0.0 296.4  
98 0.0 0.0 130.6



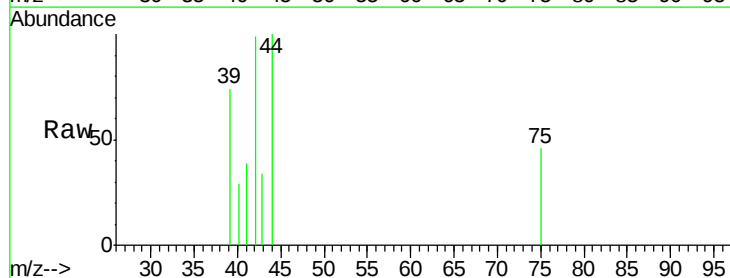
Abundance Ion 95.90 (95.60 to 96.60): VX0  
Ion 60.90 (60.60 to 61.60): VX0  
Ion 97.90 (97.60 to 98.60): VX0



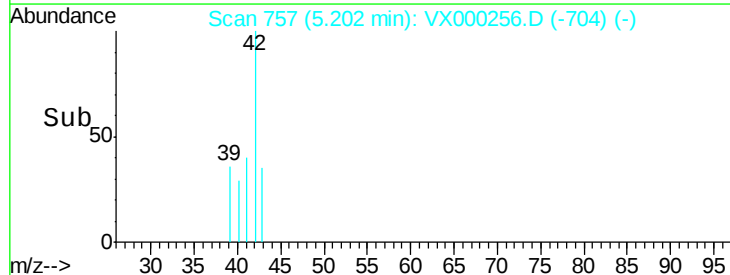
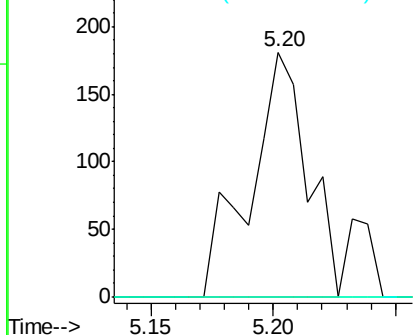
#29

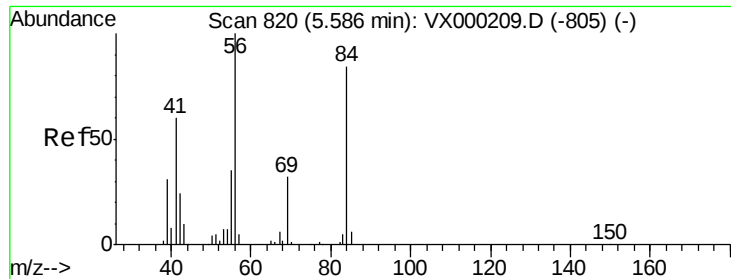
Tetrahydrofuran  
Concen: 0.403 ug/l  
RT: 5.20 min Scan# 757  
Delta R.T. 0.02 min  
Lab File: VX000256.D  
Acq: 09 Mar 2018 15:33

Tgt Ion: 42 Resp: 297  
Ion Ratio Lower Upper  
42 100  
72 0.0 37.3 55.9#  
71 0.0 35.0 52.4#



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

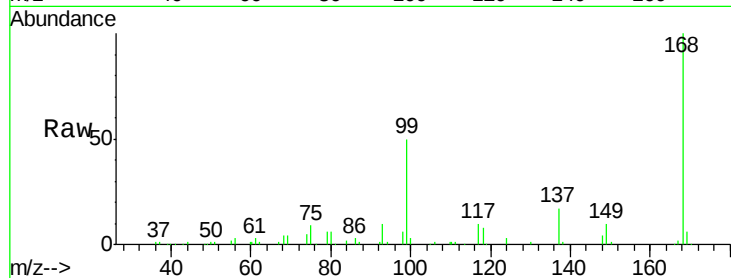




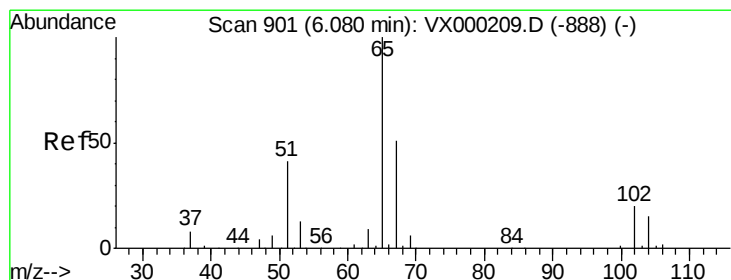
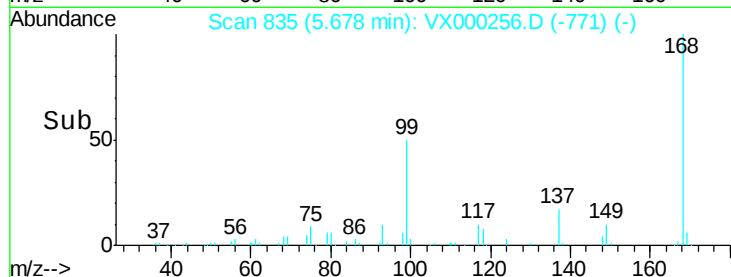
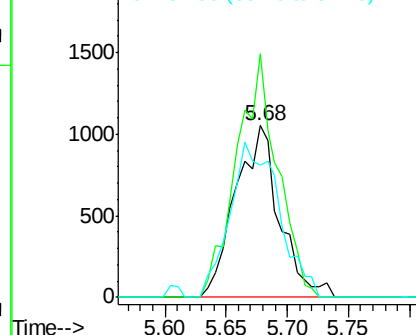
#31  
Cyclohexane  
Concen: 1.810 ug/l  
RT: 5.68 min Scan# 835  
Delta R.T. 0.09 min  
Lab File: VX000256.D  
Acq: 09 Mar 2018 15:33

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion: 56 Resp: 2624  
Ion Ratio Lower Upper  
56 100  
69 141.8 25.3 37.9#  
84 77.3 67.2 100.8

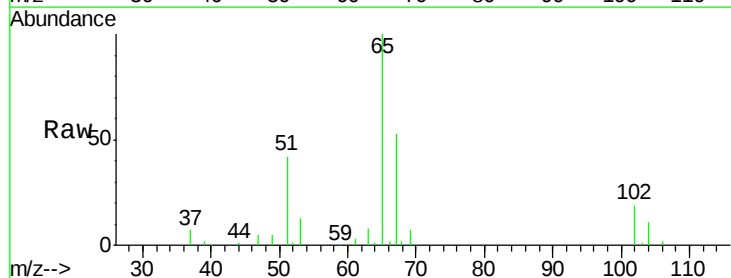


Abundance Ion 56.00 (55.70 to 56.70): VX0  
Ion 69.00 (68.70 to 69.70): VX0  
Ion 84.00 (83.70 to 84.70): VX0

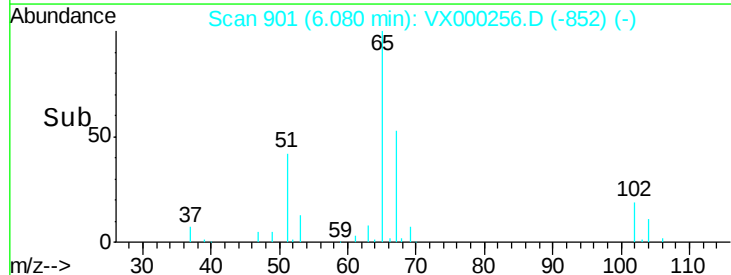
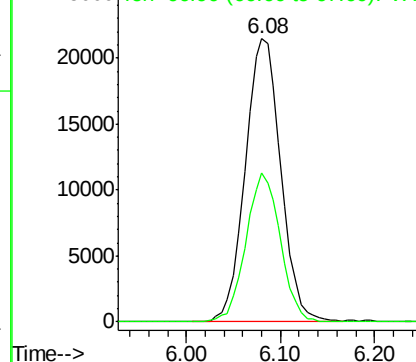


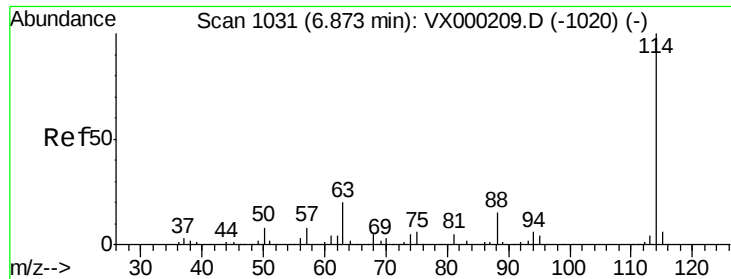
#33  
1,2-Dichloroethane-d4  
Concen: 42.804 ug/l  
RT: 6.08 min Scan# 901  
Delta R.T. -0.00 min  
Lab File: VX000256.D  
Acq: 09 Mar 2018 15:33

Tgt Ion: 65 Resp: 56717  
Ion Ratio Lower Upper  
65 100  
67 50.8 0.0 103.4



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: 6.87 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VX000256.D

Acq: 09 Mar 2018 15:33

Instrument :

MSVOA\_X

ClientSampleId :

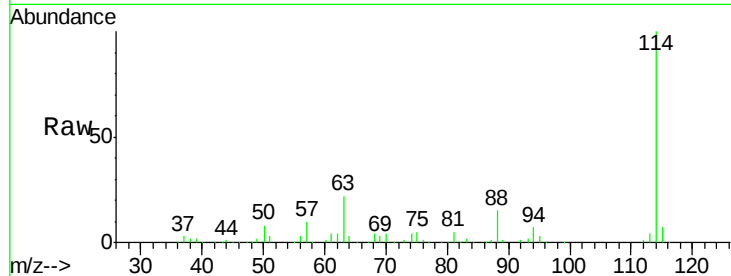
Tot Ion:114 Resp: 163104

Ion Ratio Lower Upper

114 100

63 21.5 0.0 39.2

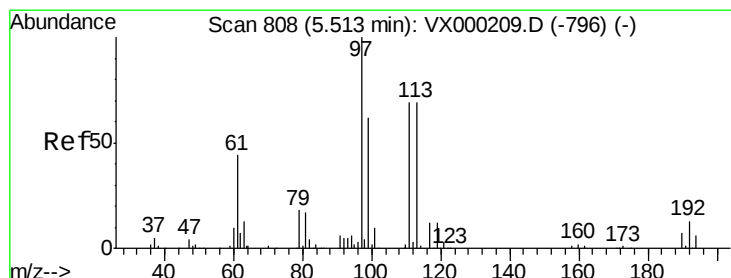
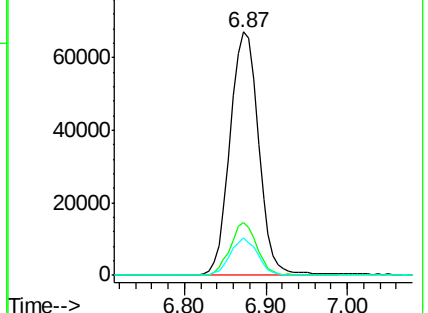
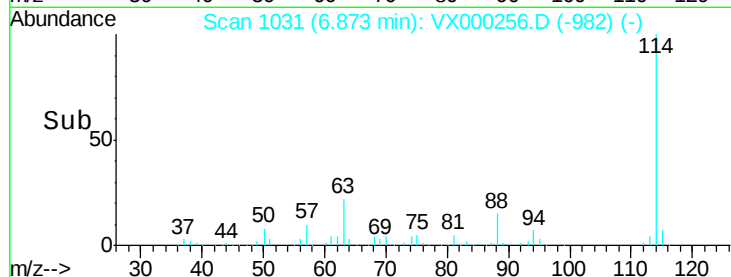
88 15.2 0.0 29.8



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: 40.669 ug/l

RT: 5.51 min Scan# 808

Delta R.T. -0.00 min

Lab File: VX000256.D

Acq: 09 Mar 2018 15:33

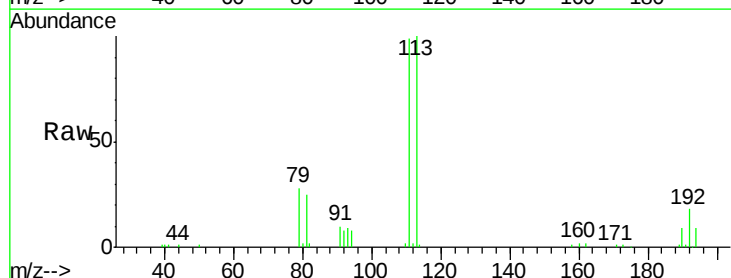
Tgt Ion:113 Resp: 41668

Ion Ratio Lower Upper

113 100

111 101.7 83.0 124.6

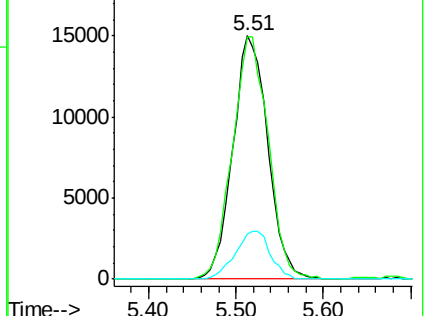
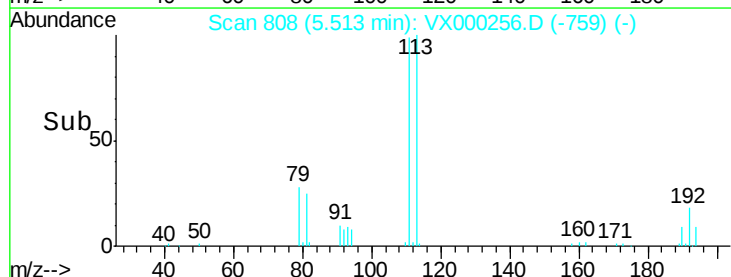
192 19.7 15.5 23.3

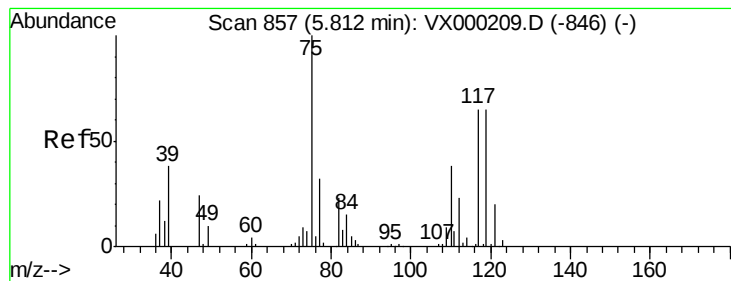


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.275 ug/l

RT: 5.68 min Scan# 835

Delta R.T. -0.13 min

Lab File: VX000256.D

Acq: 09 Mar 2018 15:33

Instrument :

MSVOA\_X

ClientSampleId :

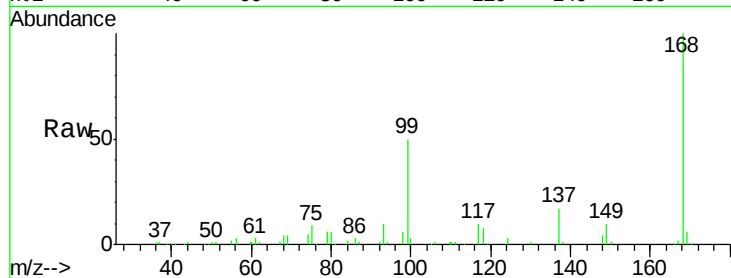
Tot Ion: 75 Resp: 7656

Ion Ratio Lower Upper

75 100

110 11.2 17.8 53.5#

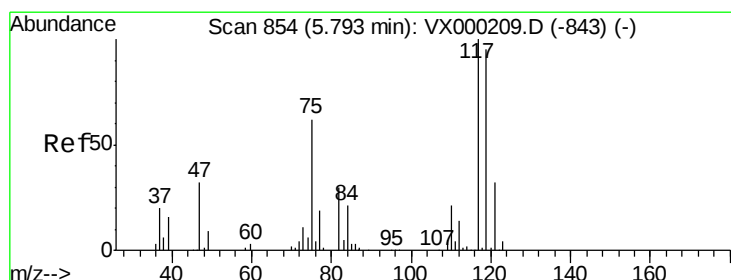
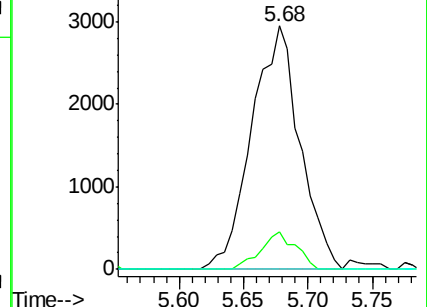
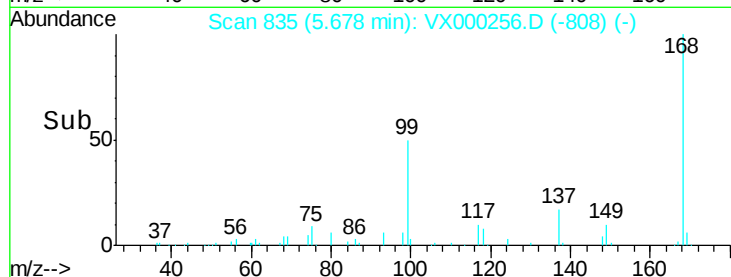
77 0.0 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VX000209.D (-846) (-)

Ion 109.90 (109.60 to 110.60): VX000209.D (-846) (-)

Ion 76.90 (76.60 to 77.60): VX000209.D (-846) (-)



#38

Carbon Tetrachloride

Concen: 6.523 ug/l

RT: 5.68 min Scan# 835

Delta R.T. -0.12 min

Lab File: VX000256.D

Acq: 09 Mar 2018 15:33

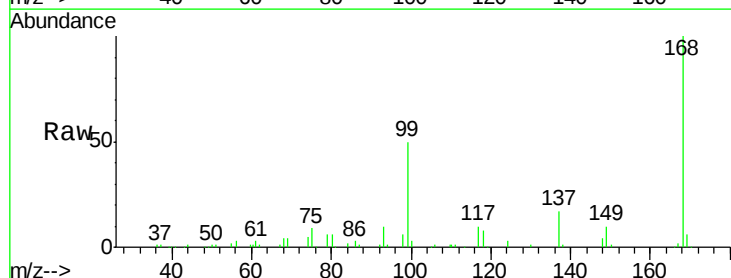
Tgt Ion: 117 Resp: 9580

Ion Ratio Lower Upper

117 100

119 2.7 75.9 113.9#

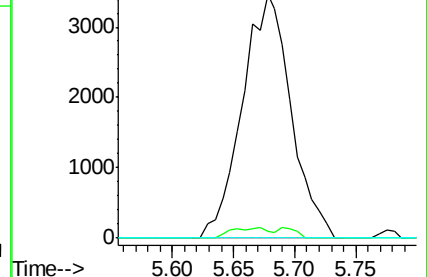
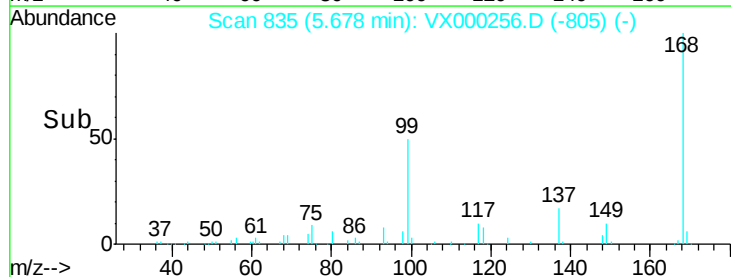
121 0.0 25.8 38.6#

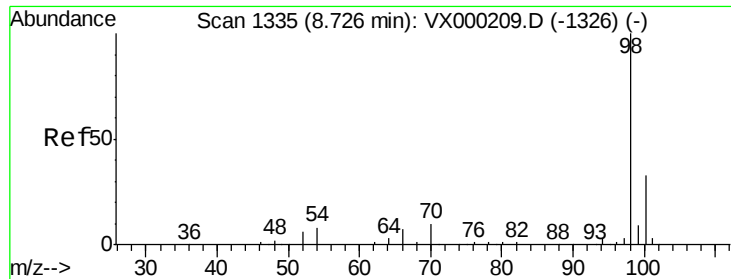


Abundance Ion 116.80 (116.50 to 117.50): VX000209.D (-843) (-)

Ion 118.80 (118.50 to 119.50): VX000209.D (-843) (-)

Ion 120.80 (120.50 to 121.50): VX000209.D (-843) (-)

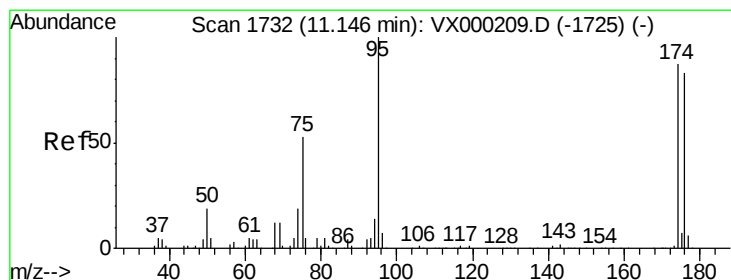
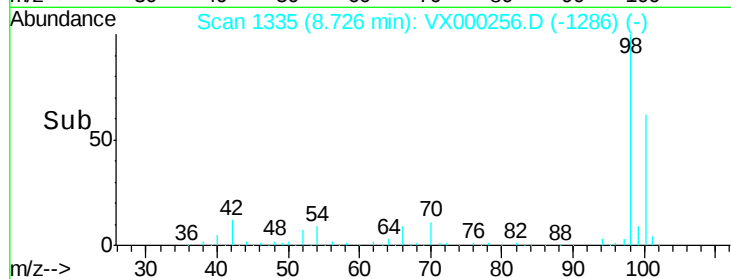
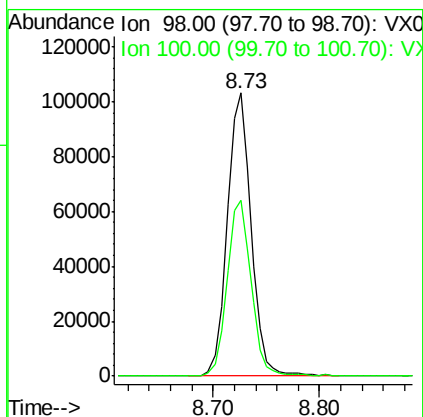
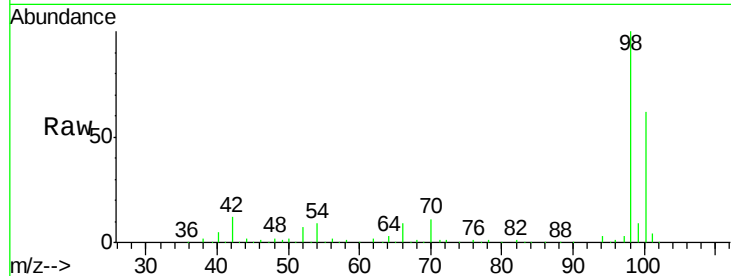




#50  
Toluene-d8  
Concen: 38.234 ug/l  
RT: 8.73 min Scan# 1335  
Delta R.T. -0.00 min  
Lab File: VX000256.D  
Acq: 09 Mar 2018 15:33

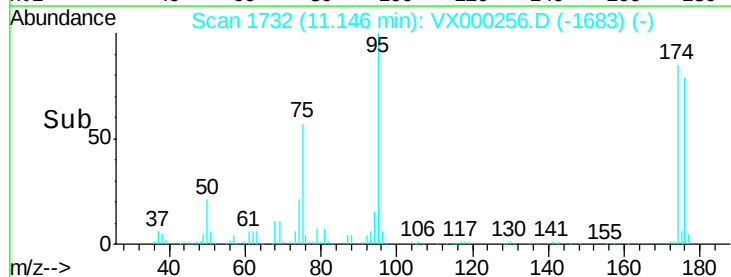
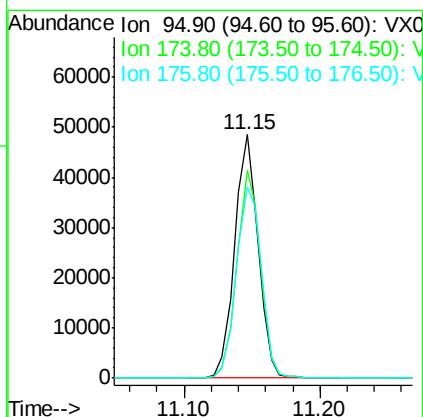
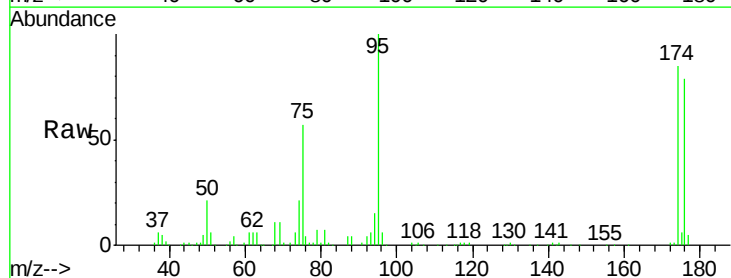
Instrument :  
MSVOA\_X  
ClientSampleId :

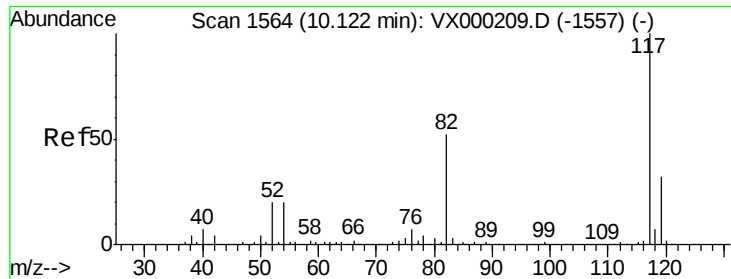
Tot Ion: 98 Resp: 162243  
Ion Ratio Lower Upper  
98 100  
100 62.9 51.2 76.8



#62  
4-Bromofluorobenzene  
Concen: 35.157 ug/l  
RT: 11.15 min Scan# 1732  
Delta R.T. -0.00 min  
Lab File: VX000256.D  
Acq: 09 Mar 2018 15:33

Tgt Ion: 95 Resp: 58228  
Ion Ratio Lower Upper  
95 100  
174 85.9 0.0 175.6  
176 83.6 0.0 171.0

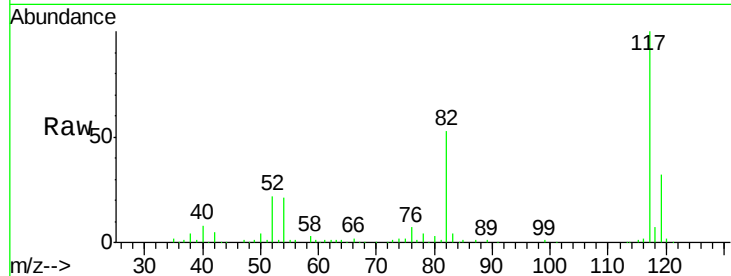




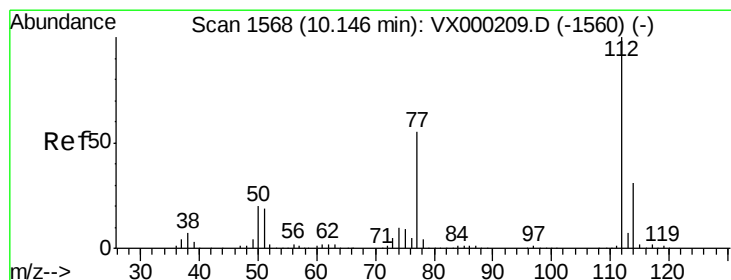
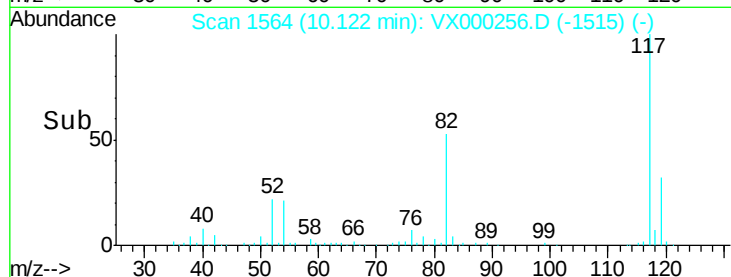
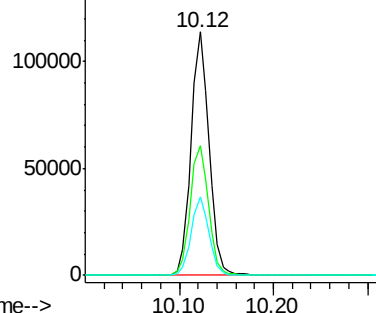
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.12 min Scan# 1564  
Delta R.T. -0.00 min  
Lab File: VX000256.D  
Acq: 09 Mar 2018 15:33

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion:117 Resp: 151329  
Ion Ratio Lower Upper  
117 100  
82 53.5 42.0 63.0  
119 32.4 25.3 37.9

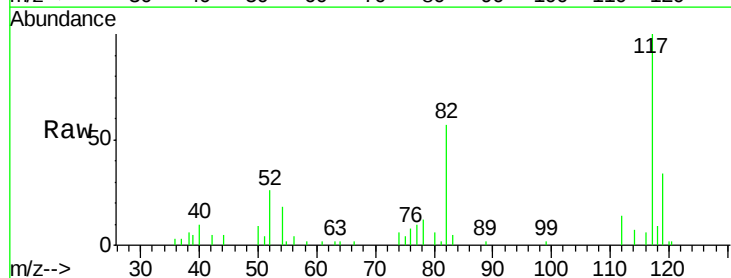


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

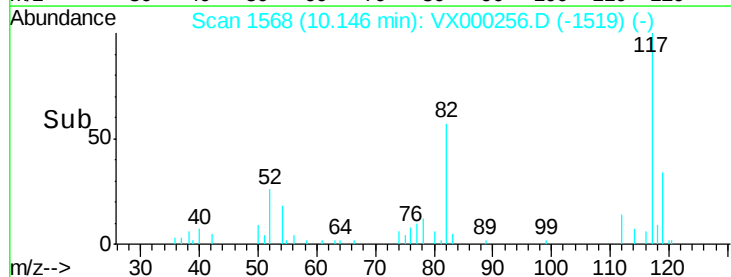
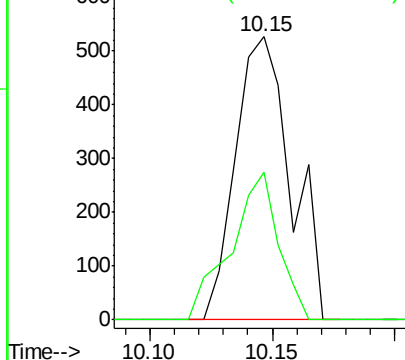


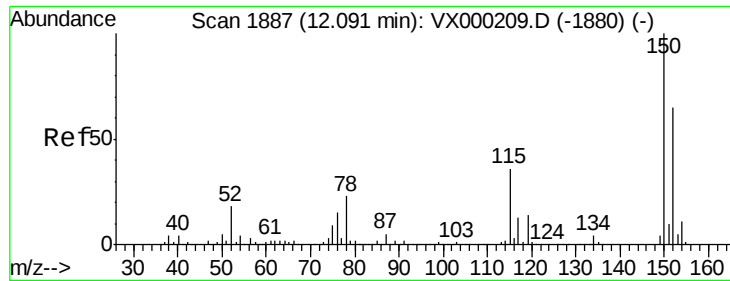
#65  
Chlorobenzene  
Concen: 0.272 ug/l  
RT: 10.15 min Scan# 1568  
Delta R.T. -0.00 min  
Lab File: VX000256.D  
Acq: 09 Mar 2018 15:33

Tgt Ion:112 Resp: 831  
Ion Ratio Lower Upper  
112 100  
114 52.2 25.0 37.4#



Abundance Ion 111.90 (111.60 to 112.60): V  
Ion 113.90 (113.60 to 114.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.09 min Scan# 1886

Delta R.T. -0.01 min

Lab File: VX000256.D

Acq: 09 Mar 2018 15:33

Instrument :

MSVOA\_X

ClientSampleId :

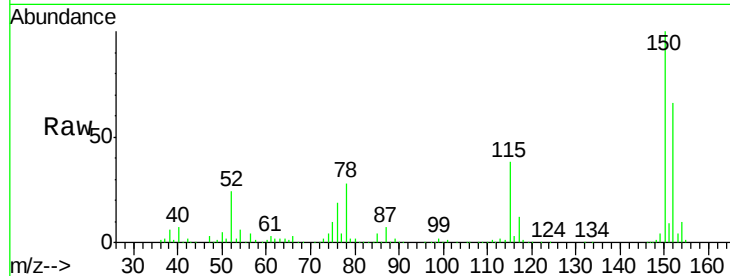
Tot Ion:152 Resp: 79559

Ion Ratio Lower Upper

152 100

115 57.0 39.8 119.3

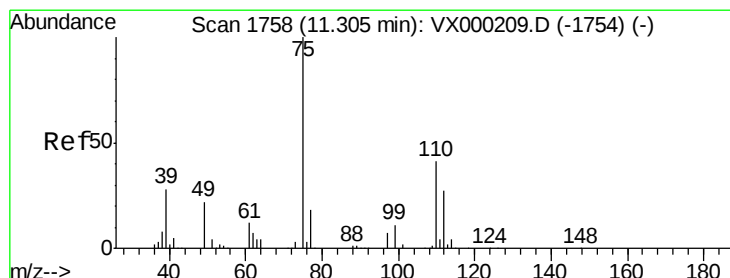
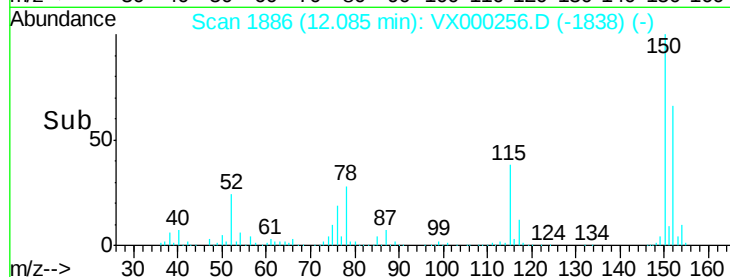
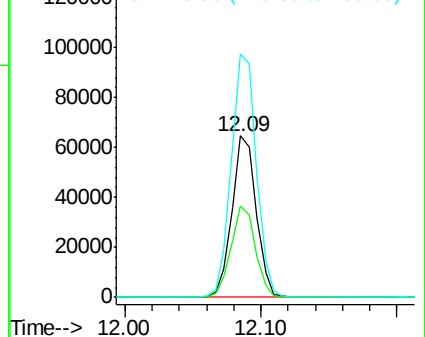
150 156.7 0.0 345.0



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



#76

1,2,3-Trichloropropane

Concen: 20.918 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. -0.16 min

Lab File: VX000256.D

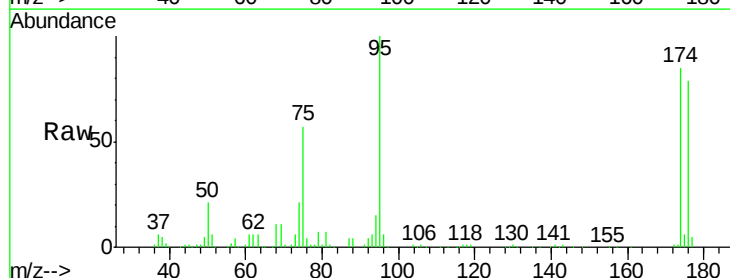
Acq: 09 Mar 2018 15:33

Tgt Ion: 75 Resp: 33360

Ion Ratio Lower Upper

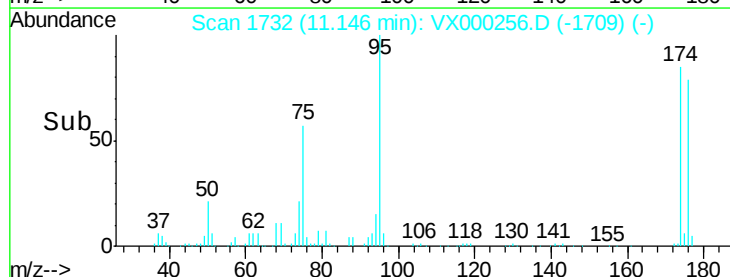
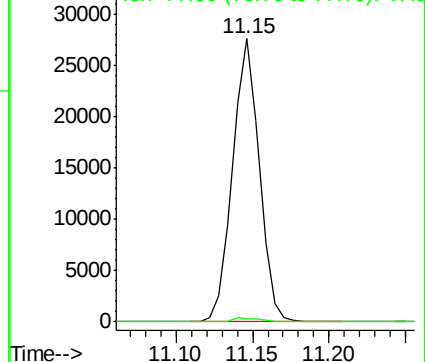
75 100

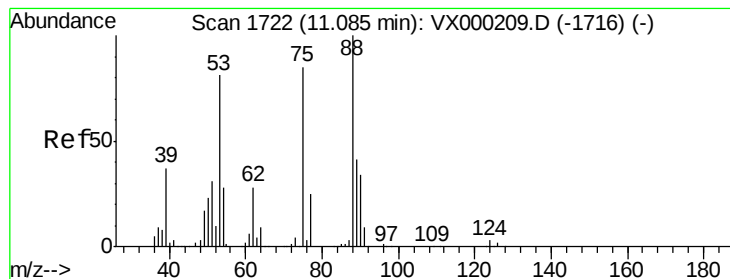
77 1.5 22.3 66.8#



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: 64.054 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.06 min

Lab File: VX000256.D

Acq: 09 Mar 2018 15:33

Instrument :

MSVOA\_X

ClientSampleId :

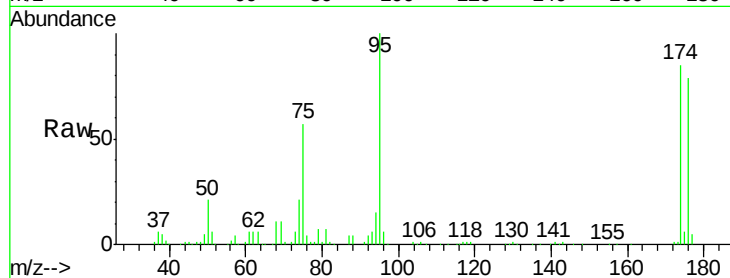
Tot Ion: 75 Resp: 33360

Ion Ratio Lower Upper

75 100

53 0.0 78.6 118.0#

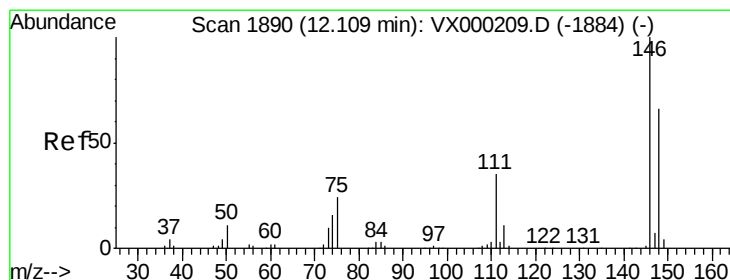
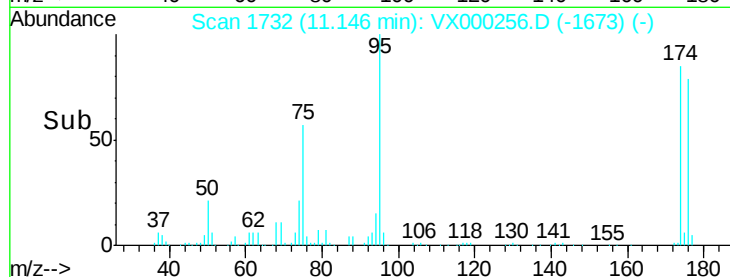
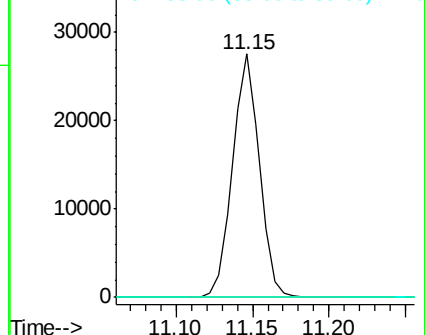
89 0.0 38.8 58.2#



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



#88

1,4-Dichlorobenzene

Concen: 0.213 ug/l

RT: 12.11 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VX000256.D

Acq: 09 Mar 2018 15:33

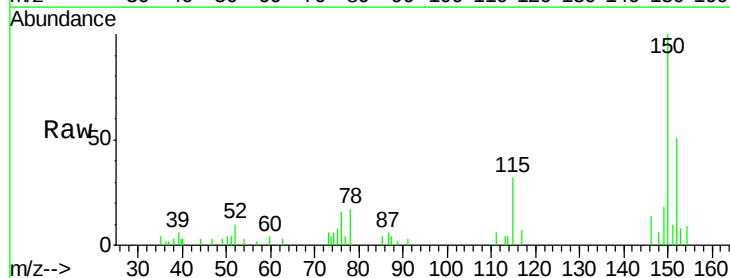
Tgt Ion: 146 Resp: 547

Ion Ratio Lower Upper

146 100

111 0.0 18.9 56.9#

148 197.3 32.6 97.8#



Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

