

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX110218\  
 Data File : VX005763.D  
 Acq On : 02 Nov 2018 18:17  
 Operator : JC/MD  
 Sample : PB114401ZHE#14  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB114401ZHE#14

Quant Time: Nov 03 01:29:26 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X103118W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 31 18:23:06 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 108001   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 177243   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 163908   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 68731    | 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   | 87275    | 55.27 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 110.54% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 63439    | 51.69 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.38% |          |
| 50) Toluene-d8              | 8.72  | 98   | 225774   | 52.45 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.90% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 69320    | 43.64 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 87.28%  |          |

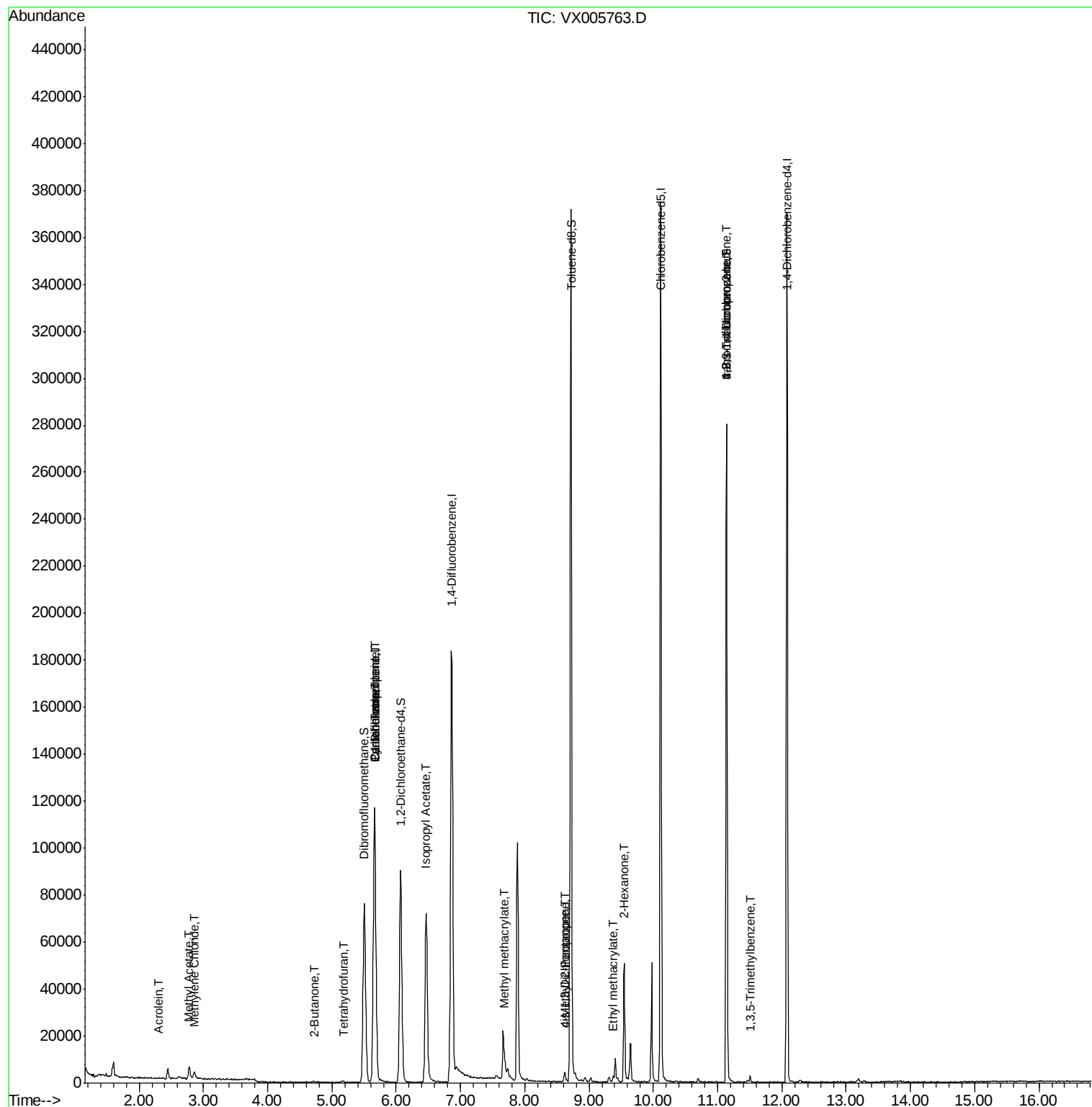
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 6) Chloroethane                | 1.73  | 64   | 44       | Below Cal | #      | 42     |
| 13) Acrolein                   | 2.31  | 56   | 21       | 12.248    | ug/l # | 1      |
| 16) Acetone                    | 2.45  | 43   | 4244     | Below Cal | #      | 81     |
| 18) Methyl Acetate             | 2.78  | 43   | 7038     | 3.106     | ug/l   | 96     |
| 20) Methylene Chloride         | 2.85  | 84   | 1300     | 0.955     | ug/l   | 93     |
| 25) 2-Butanone                 | 4.72  | 43   | 706      | 0.530     | ug/l # | 80     |
| 29) Tetrahydrofuran            | 5.18  | 42   | 569      | 0.700     | ug/l # | 67     |
| 31) Cyclohexane                | 5.66  | 56   | 2684     | 1.272     | ug/l # | 42     |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 9406     | 4.981     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 10614    | 6.221     | ug/l # | 16     |
| 43) Isopropyl Acetate          | 6.46  | 43   | 94862    | 27.129    | ug/l   | 99     |
| 48) Methyl methacrylate        | 7.69  | 41   | 4920     | 2.907     | ug/l # | 24     |
| 51) 4-Methyl-2-Pentanone       | 8.62  | 43   | 1608     | 0.674     | ug/l # | 44     |
| 54) cis-1,3-Dichloropropene    | 8.62  | 75   | 573      | 0.286     | ug/l # | 75     |
| 56) Ethyl methacrylate         | 9.38  | 69   | 49       | 2.492     | ug/l # | 1      |
| 59) 2-Hexanone                 | 9.55  | 43   | 5464     | 2.816     | ug/l # | 63     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 37421    | 21.860    | ug/l # | 36     |
| 80) 1,3,5-Trimethylbenzene     | 11.51 | 105  | 1075     | 0.279     | ug/l   | 96     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 37421    | 70.629    | ug/l # | 9      |

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

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Quant Time: Nov 03 01:29:26 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X103118W.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 31 18:23:06 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX005763.D

Acq: 02 Nov 2018 18:17

Instrument :

MSVOA\_X

ClientSampleId :

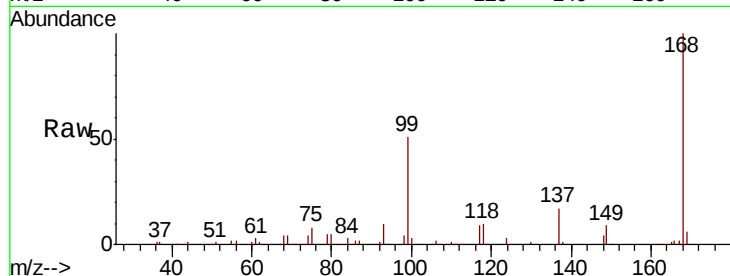
PB114401ZHE#14

Tot Ion:168 Resp: 108001

Ion Ratio Lower Upper

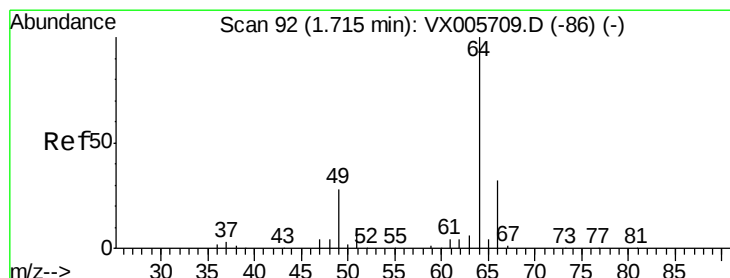
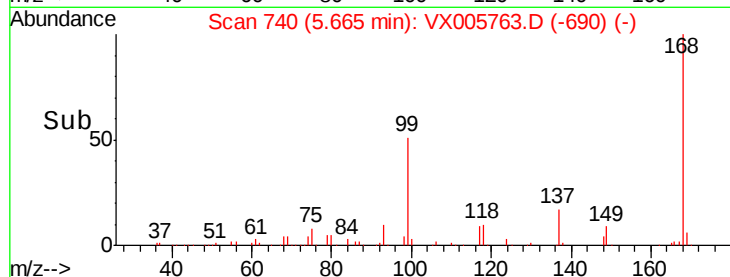
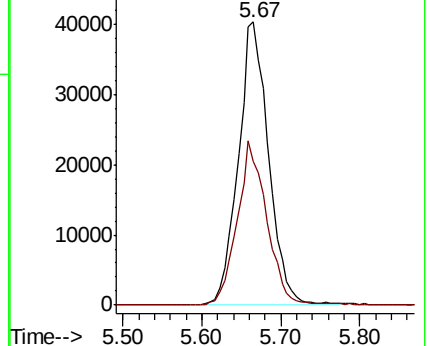
168 100

99 50.8 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 95

Delta R.T. 0.02 min

Lab File: VX005763.D

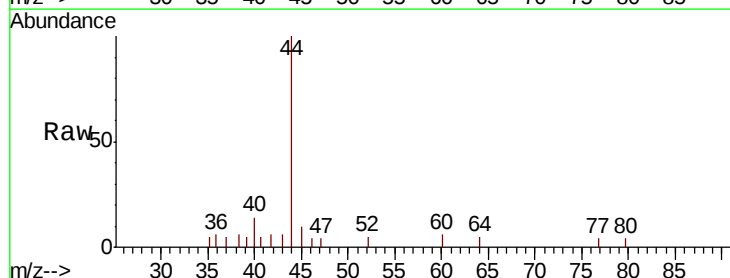
Acq: 02 Nov 2018 18:17

Tgt Ion: 64 Resp: 44

Ion Ratio Lower Upper

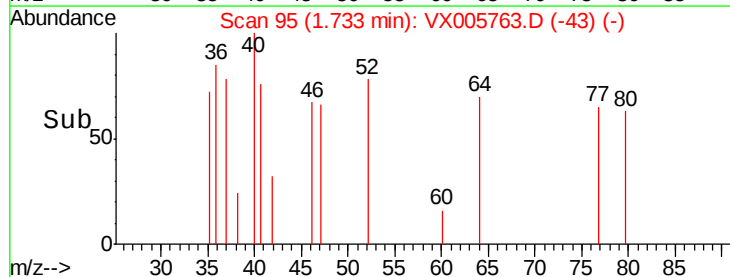
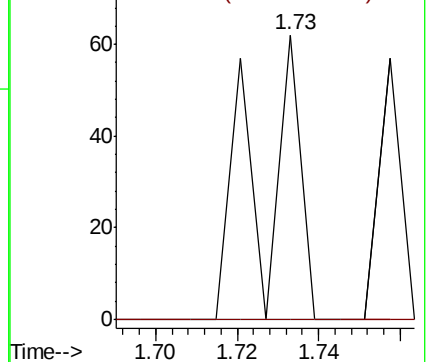
64 100

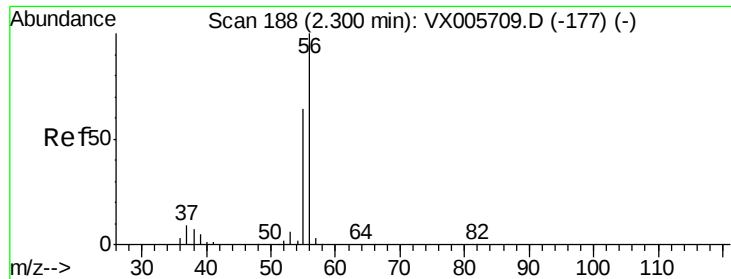
66 0.0 25.8 38.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#13

Acrolein

Concen: 12.248 ug/l

RT: 2.31 min Scan# 190

Delta R.T. 0.01 min

Lab File: VX005763.D

Acq: 02 Nov 2018 18:17

Instrument :

MSVOA\_X

ClientSampleId :

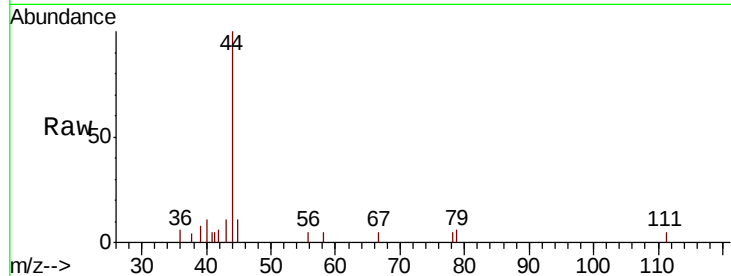
PB114401ZHE#14

Tot Ion: 56 Resp: 21

Ion Ratio Lower Upper

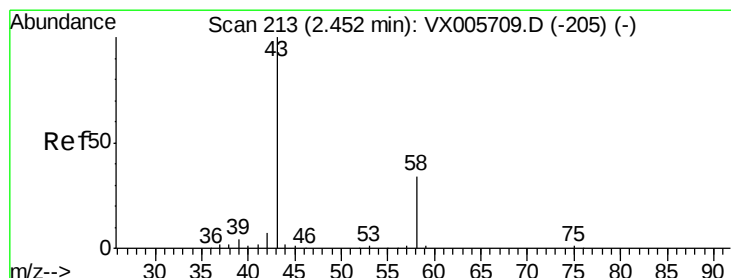
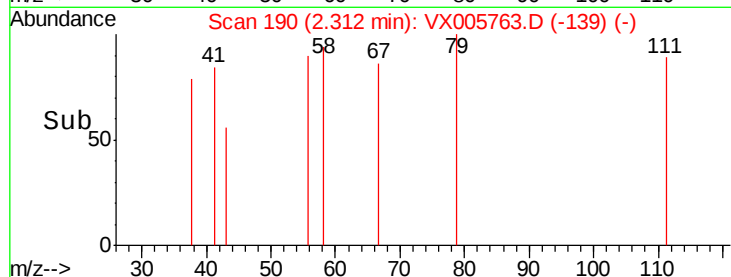
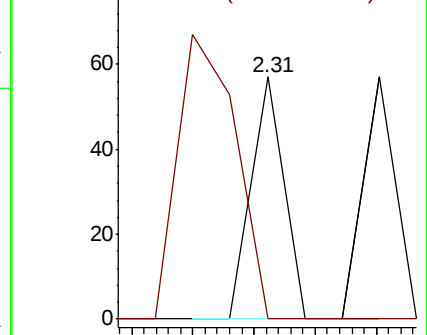
56 100

55 209.5 57.3 85.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: Below Cal

RT: 2.45 min Scan# 212

Delta R.T. -0.01 min

Lab File: VX005763.D

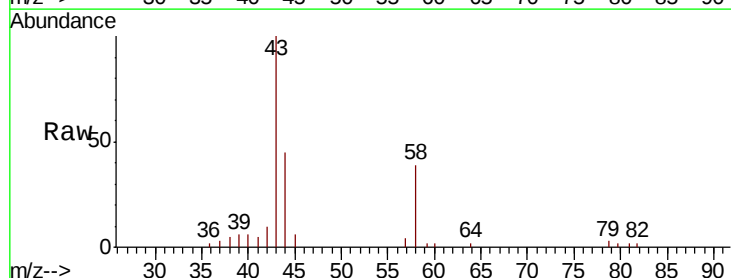
Acq: 02 Nov 2018 18:17

Tgt Ion: 43 Resp: 4244

Ion Ratio Lower Upper

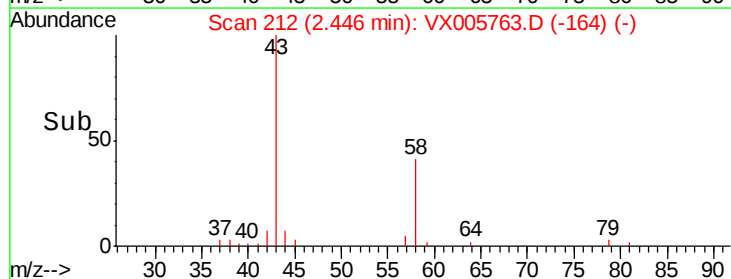
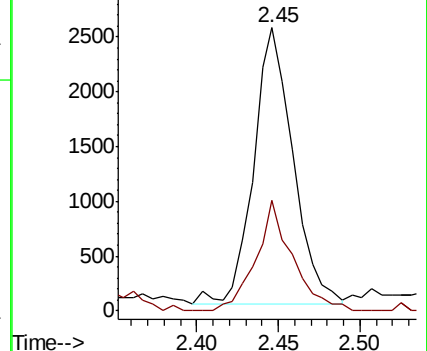
43 100

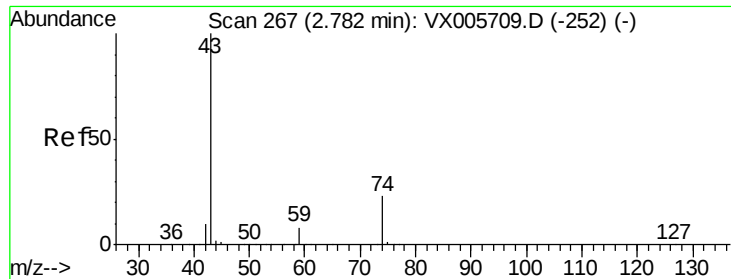
58 40.2 23.8 35.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

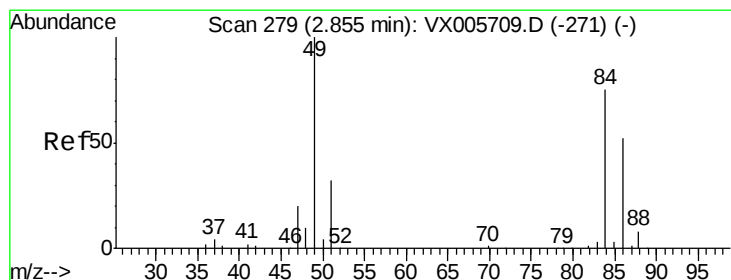
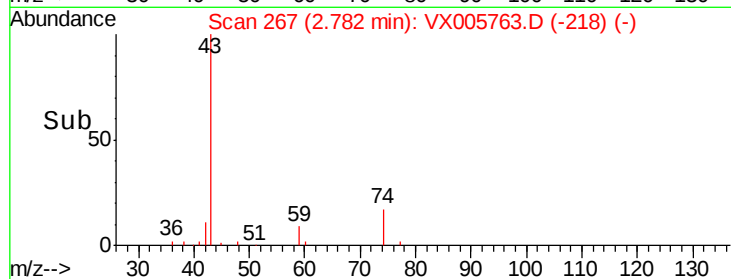
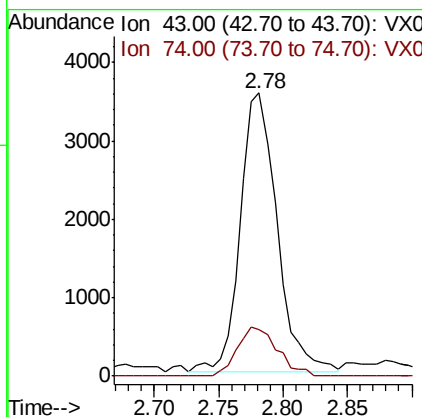
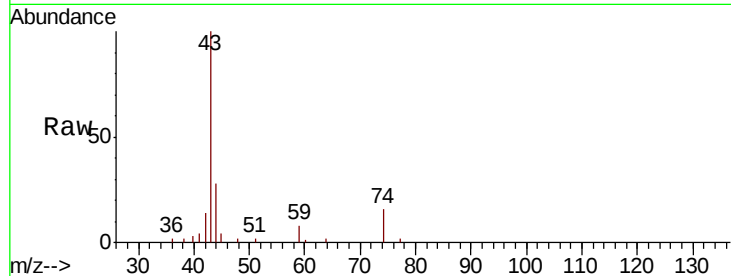




#18  
Methyl Acetate  
Concen: 3.106 ug/l  
RT: 2.78 min Scan# 267  
Delta R.T. -0.00 min  
Lab File: VX005763.D  
Acq: 02 Nov 2018 18:17

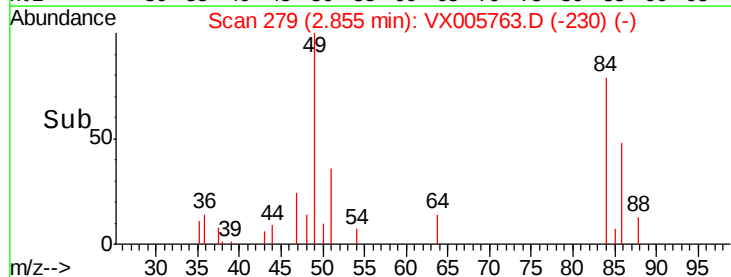
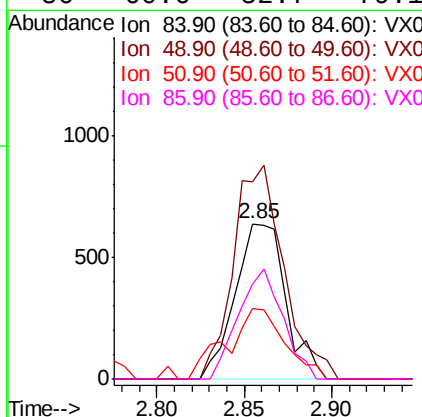
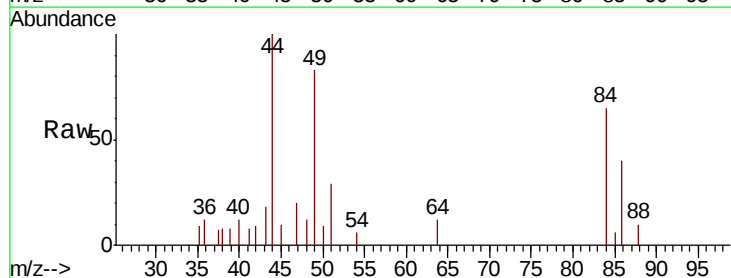
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB114401ZHE#14

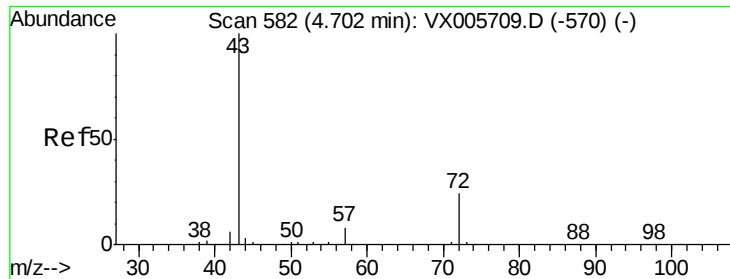
Tot Ion: 43 Resp: 7038  
Ion Ratio Lower Upper  
43 100  
74 19.2 16.8 25.2



#20  
Methylene Chloride  
Concen: 0.955 ug/l  
RT: 2.85 min Scan# 279  
Delta R.T. -0.00 min  
Lab File: VX005763.D  
Acq: 02 Nov 2018 18:17

Tgt Ion: 84 Resp: 1300  
Ion Ratio Lower Upper  
84 100  
49 127.0 109.5 164.3  
51 45.2 33.3 49.9  
86 60.6 52.7 79.1





#25

2-Butanone

Concen: 0.530 ug/l

RT: 4.72 min Scan# 585

Delta R.T. 0.02 min

Lab File: VX005763.D

Acq: 02 Nov 2018 18:17

Instrument :

MSVOA\_X

ClientSampleId :

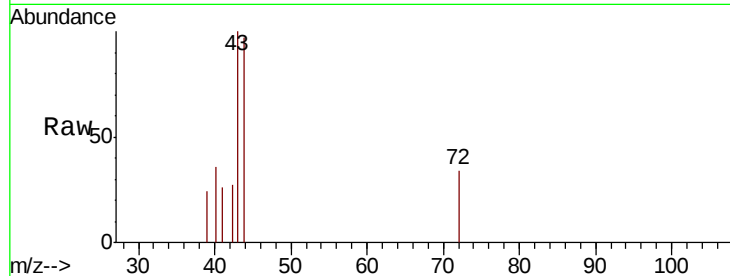
PB114401ZHE#14

Tot Ion: 43 Resp: 706

Ion Ratio Lower Upper

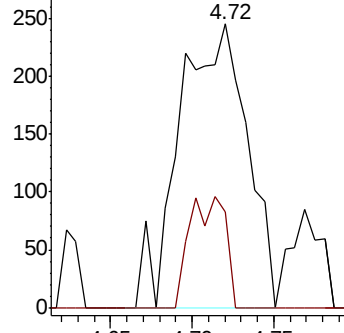
43 100

72 33.9 19.2 28.8#

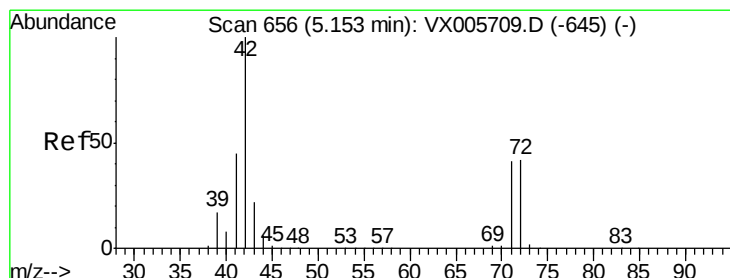
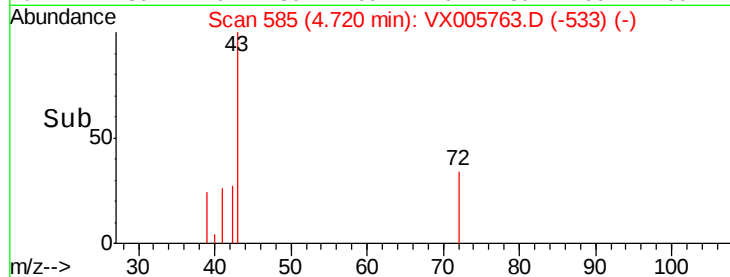


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



Time-->



#29

Tetrahydrofuran

Concen: 0.700 ug/l

RT: 5.18 min Scan# 660

Delta R.T. 0.02 min

Lab File: VX005763.D

Acq: 02 Nov 2018 18:17

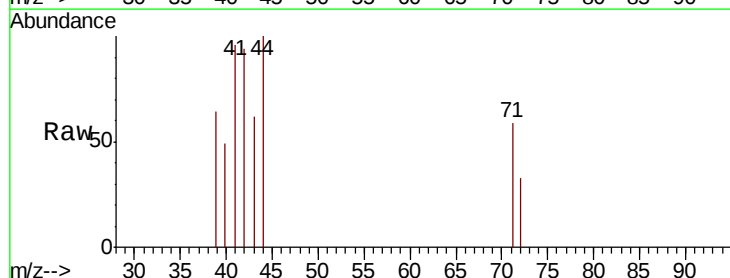
Tgt Ion: 42 Resp: 569

Ion Ratio Lower Upper

42 100

72 3.3 32.0 48.0#

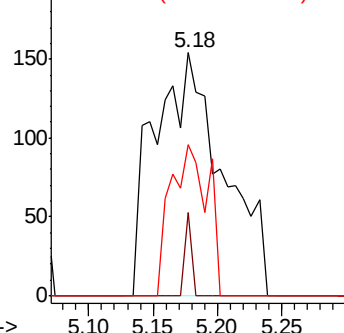
71 33.9 29.8 44.8



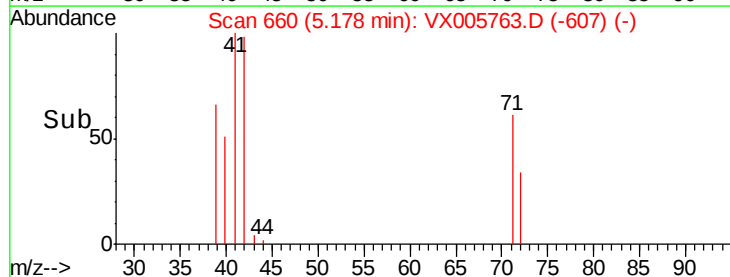
Abundance Ion 42.00 (41.70 to 42.70): VX0

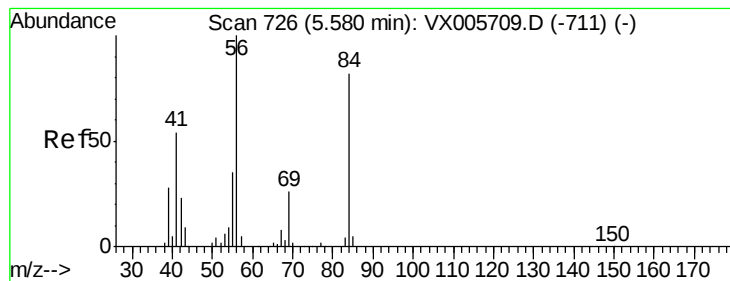
Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



Time-->





#31

Cyclohexane

Concen: 1.272 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX005763.D

Acq: 02 Nov 2018 18:17

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MSVOA\_X

ClientSampleId :

PB114401ZHE#14

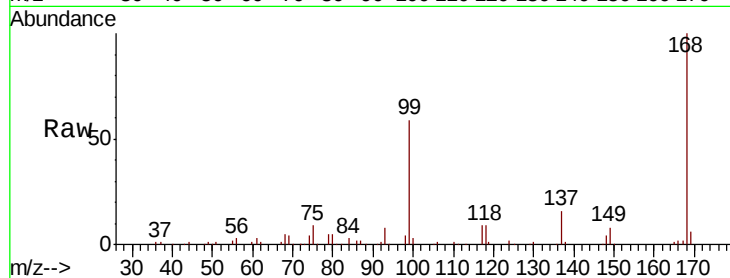
Tot Ion: 56 Resp: 2684

Ion Ratio Lower Upper

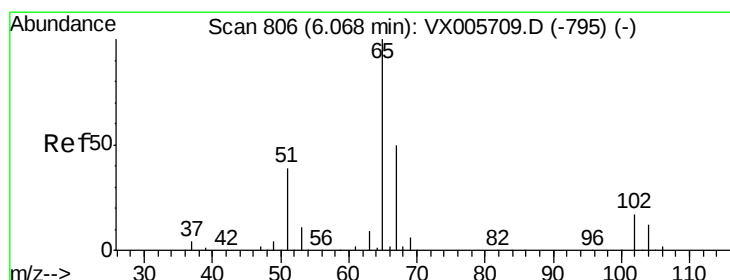
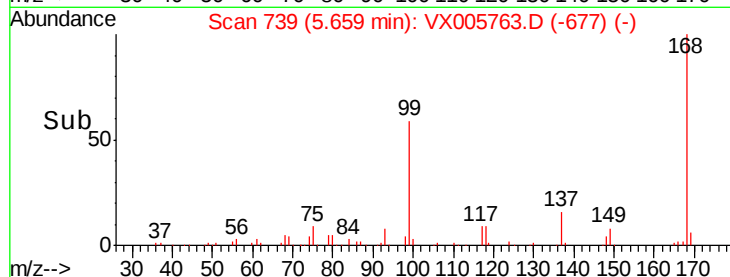
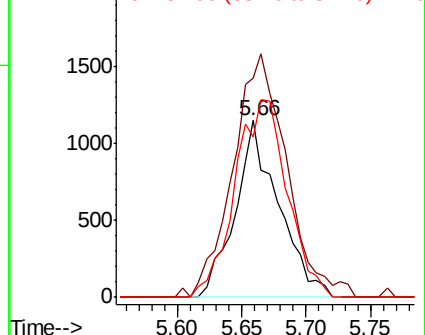
56 100

69 123.9 22.6 34.0#

84 90.8 62.7 94.1



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: 55.272 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX005763.D

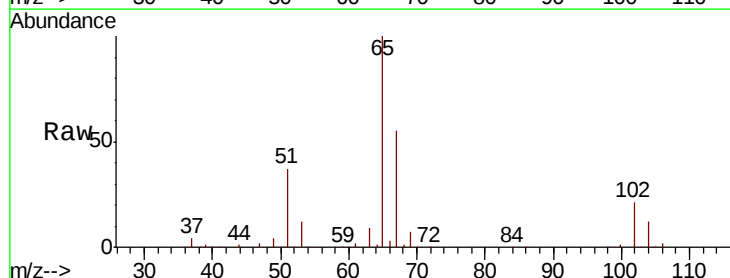
Acq: 02 Nov 2018 18:17

Tgt Ion: 65 Resp: 87275

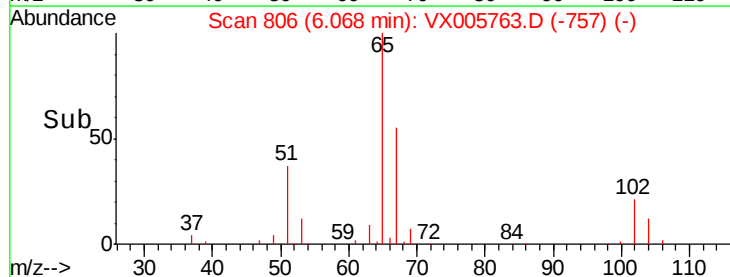
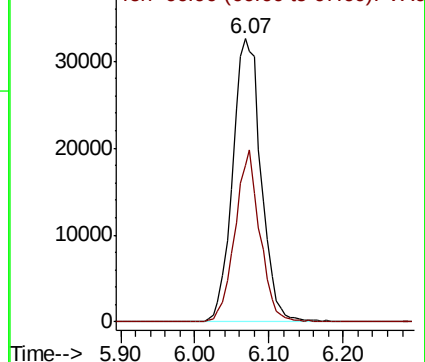
Ion Ratio Lower Upper

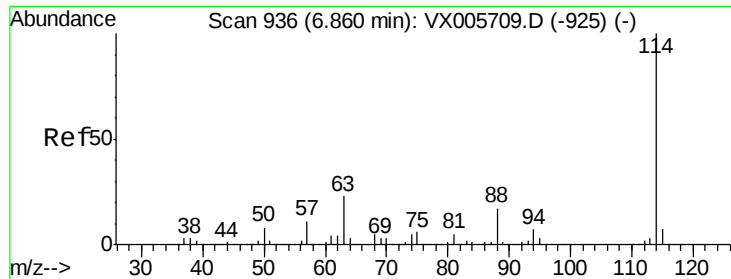
65 100

67 53.5 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0  
Ion 66.90 (66.60 to 67.60): VX0

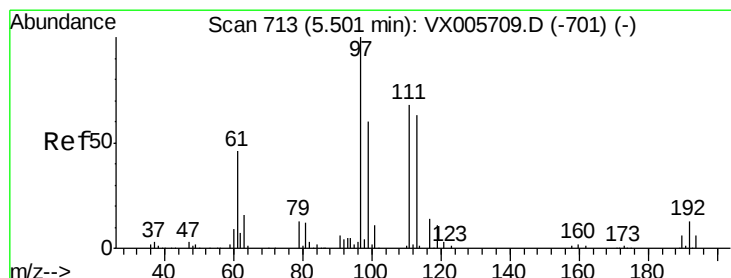
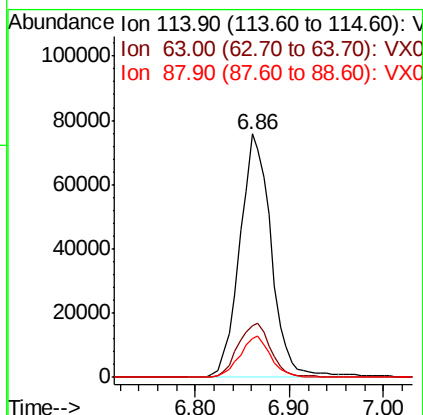
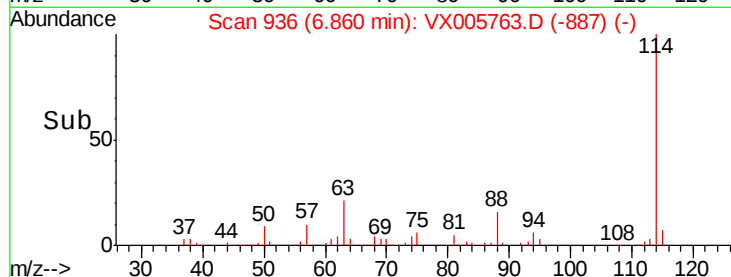
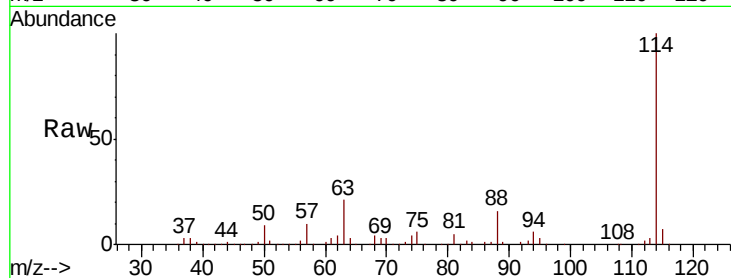




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.86 min Scan# 936  
Delta R.T. -0.00 min  
Lab File: VX005763.D  
Acq: 02 Nov 2018 18:17

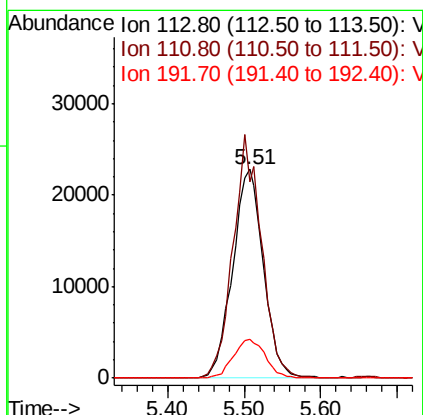
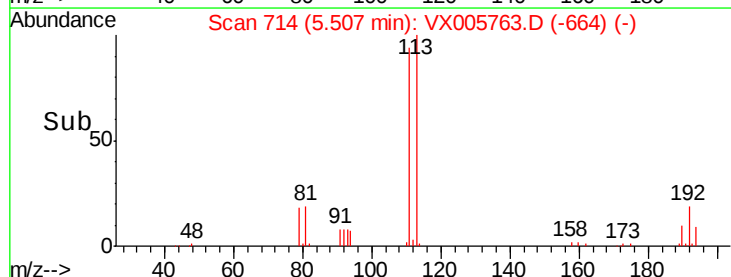
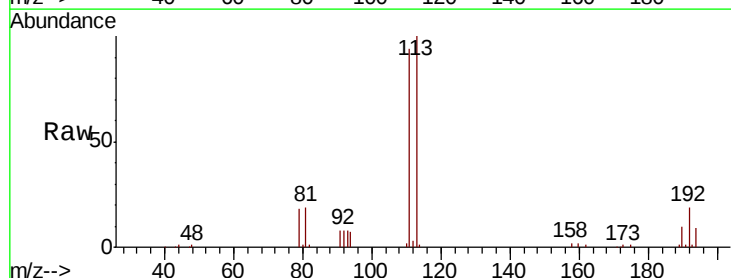
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB114401ZHE#14

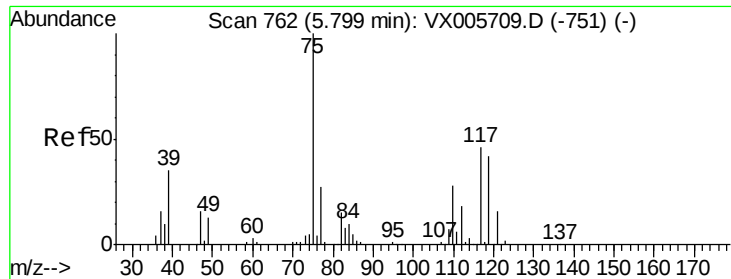
Tot Ion:114 Resp: 177243  
Ion Ratio Lower Upper  
114 100  
63 21.2 0.0 42.8  
88 15.7 0.0 31.2



#35  
Dibromofluoromethane  
Concen: 51.692 ug/l  
RT: 5.51 min Scan# 714  
Delta R.T. 0.01 min  
Lab File: VX005763.D  
Acq: 02 Nov 2018 18:17

Tgt Ion:113 Resp: 63439  
Ion Ratio Lower Upper  
113 100  
111 107.4 82.3 123.5  
192 19.4 17.9 26.9

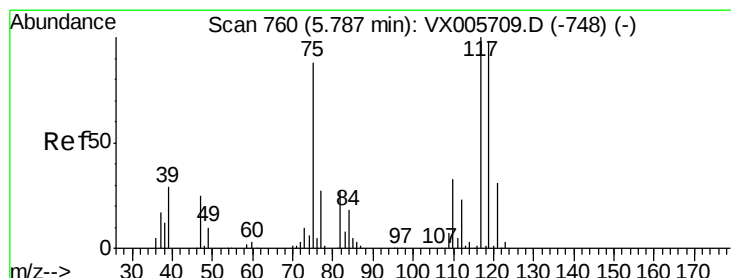
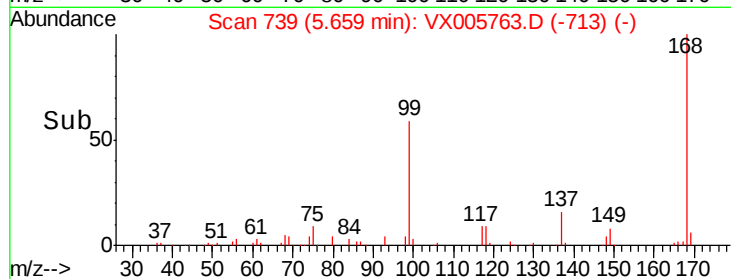
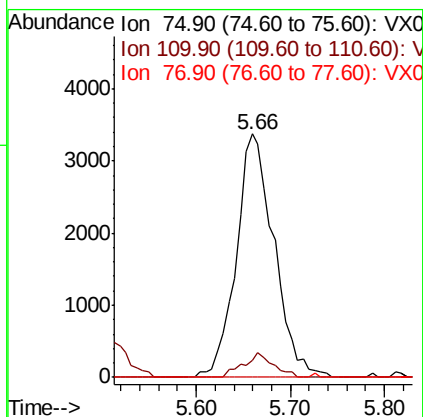
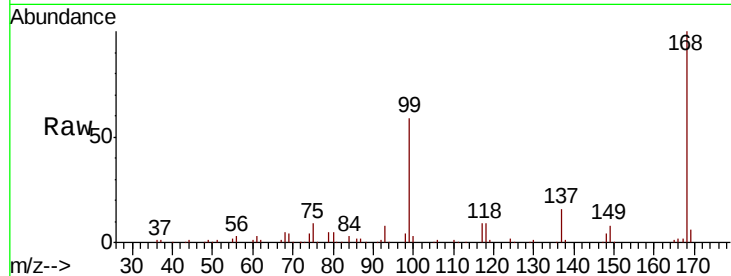




#36  
 1,1-Dichloropropene  
 Concen: 4.981 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.14 min  
 Lab File: VX005763.D  
 Acq: 02 Nov 2018 18:17

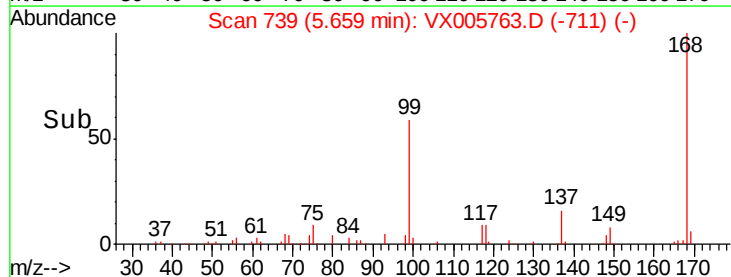
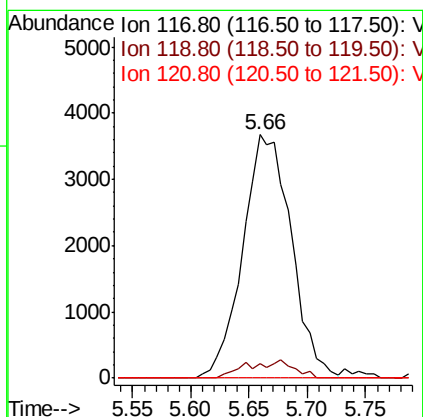
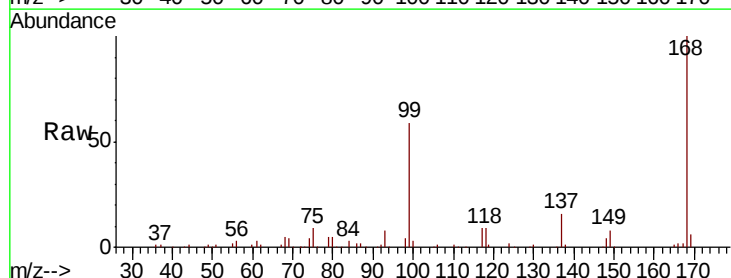
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB114401ZHE#14

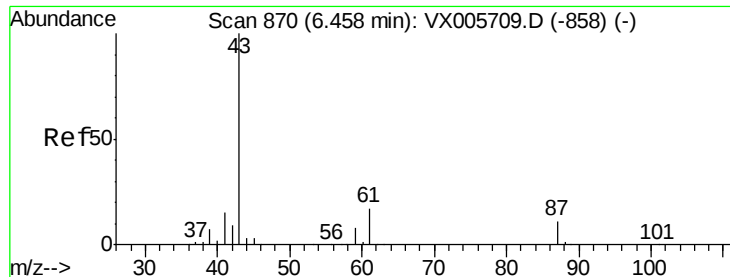
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.0   | 17.4  | 52.2# |
| 77      | 0.0   | 25.8  | 38.6# |



#38  
 Carbon Tetrachloride  
 Concen: 6.221 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.13 min  
 Lab File: VX005763.D  
 Acq: 02 Nov 2018 18:17

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 6.1   | 78.1  | 117.1# |
| 121     | 0.0   | 24.6  | 36.8#  |



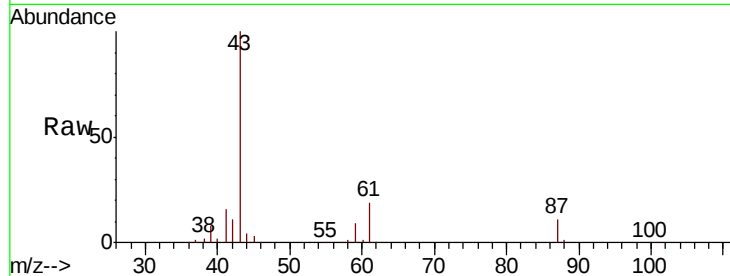


#43

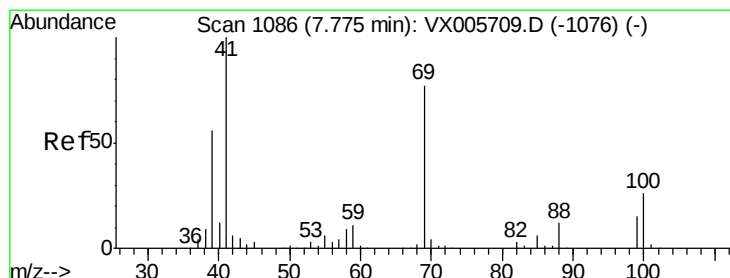
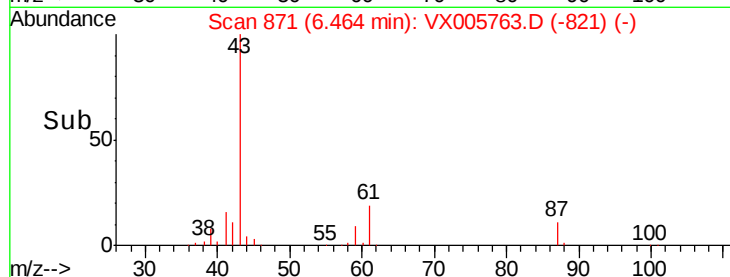
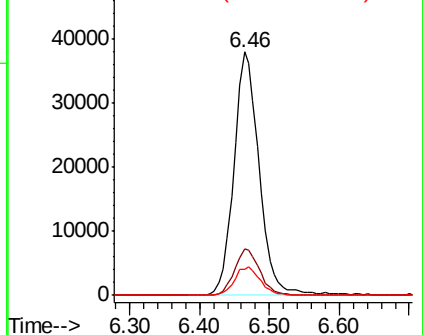
Isopropyl Acetate  
 Concen: 27.129 ug/l  
 RT: 6.46 min Scan# 871  
 Delta R.T. 0.01 min  
 Lab File: VX005763.D  
 Acq: 02 Nov 2018 18:17

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB114401ZHE#14

Tot Ion: 43 Resp: 94862  
 Ion Ratio Lower Upper  
 43 100  
 61 19.3 14.6 22.0  
 87 12.0 9.6 14.4



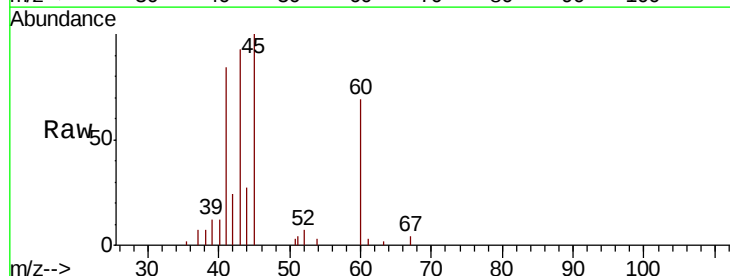
Abundance Ion 43.00 (42.70 to 43.70): VX0  
 Ion 61.00 (60.70 to 61.70): VX0  
 Ion 87.00 (86.70 to 87.70): VX0



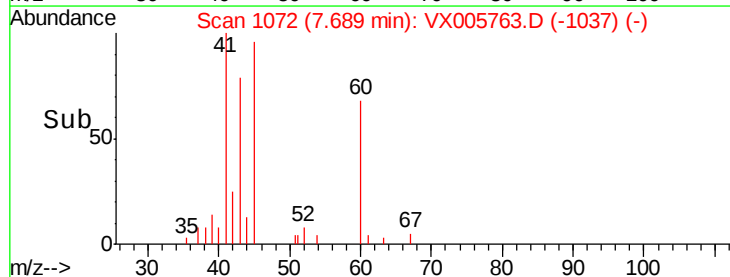
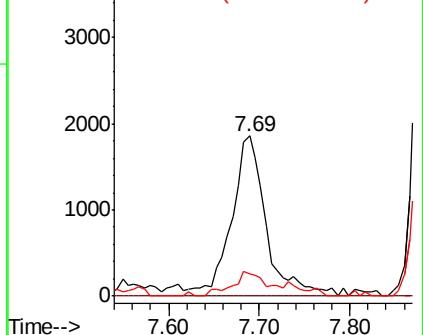
#48

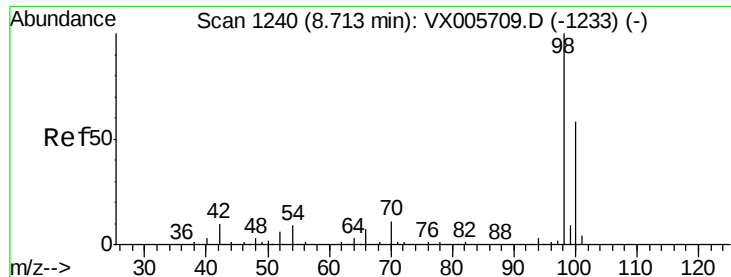
Methyl methacrylate  
 Concen: 2.907 ug/l  
 RT: 7.69 min Scan# 1072  
 Delta R.T. -0.09 min  
 Lab File: VX005763.D  
 Acq: 02 Nov 2018 18:17

Tgt Ion: 41 Resp: 4920  
 Ion Ratio Lower Upper  
 41 100  
 69 0.0 63.2 94.8#  
 39 14.4 42.2 63.2#



Abundance Ion 41.00 (40.70 to 41.70): VX0  
 Ion 69.00 (68.70 to 69.70): VX0  
 Ion 39.00 (38.70 to 39.70): VX0

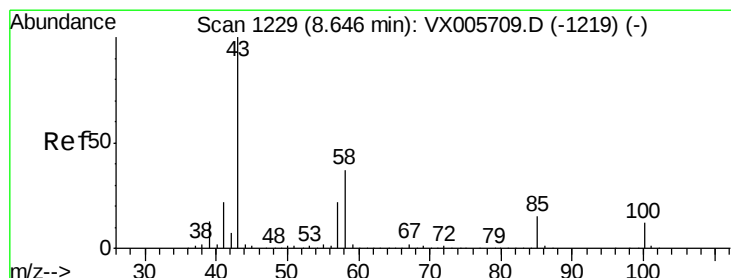
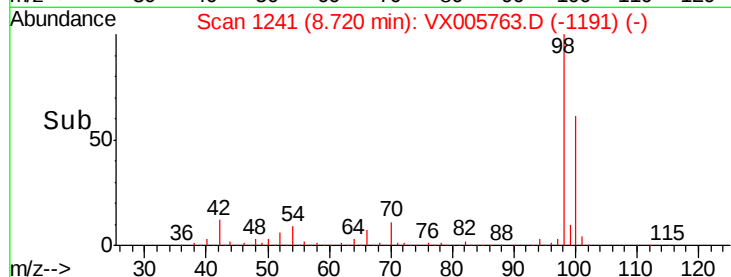
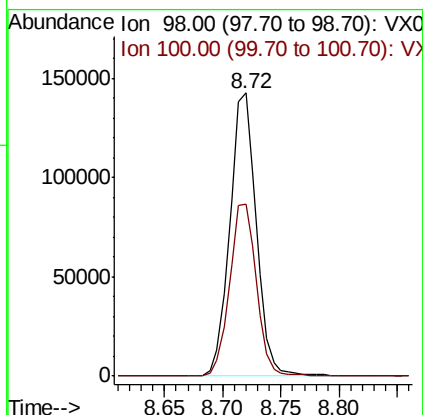
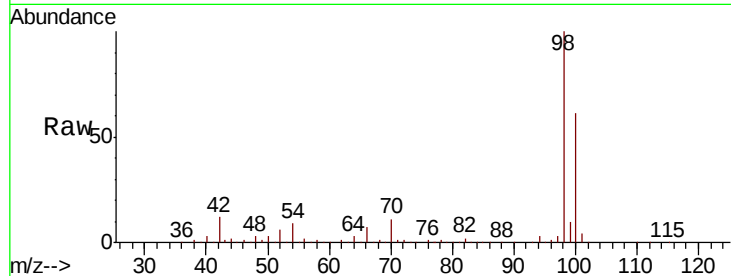




#50  
Toluene-d8  
Concen: 52.453 ug/l  
RT: 8.72 min Scan# 1241  
Delta R.T. 0.01 min  
Lab File: VX005763.D  
Acq: 02 Nov 2018 18:17

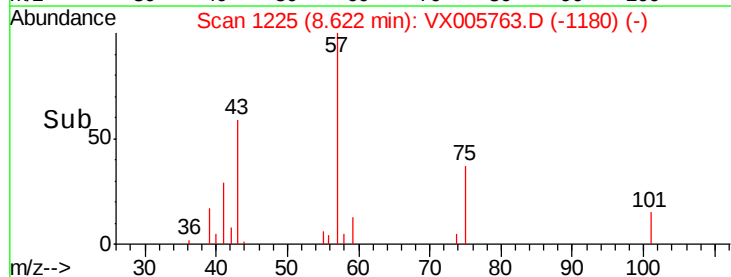
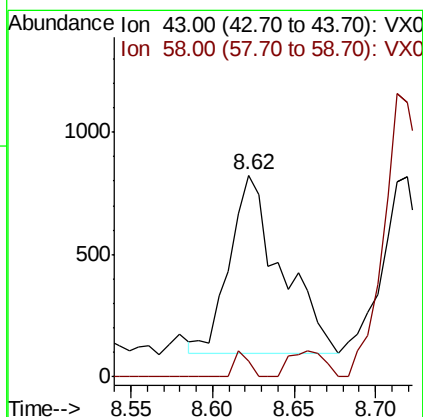
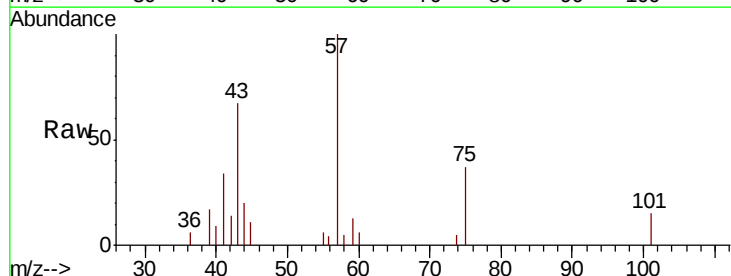
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB114401ZHE#14

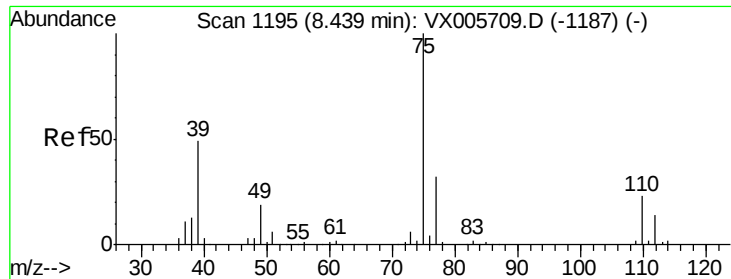
Tot Ion: 98 Resp: 225774  
Ion Ratio Lower Upper  
98 100  
100 62.0 51.3 76.9



#51  
4-Methyl-2-Pentanone  
Concen: 0.674 ug/l  
RT: 8.62 min Scan# 1225  
Delta R.T. -0.02 min  
Lab File: VX005763.D  
Acq: 02 Nov 2018 18:17

Tgt Ion: 43 Resp: 1608  
Ion Ratio Lower Upper  
43 100  
58 3.9 29.7 44.5#

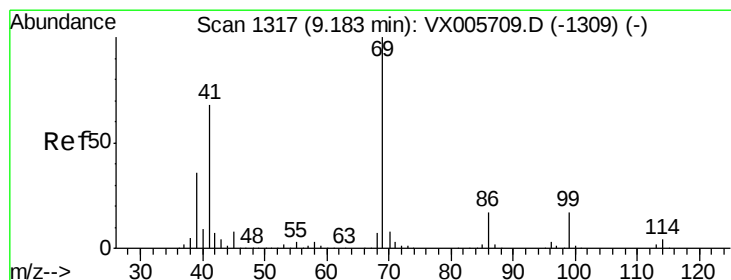
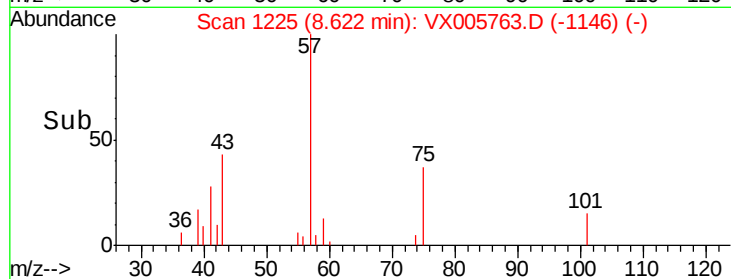
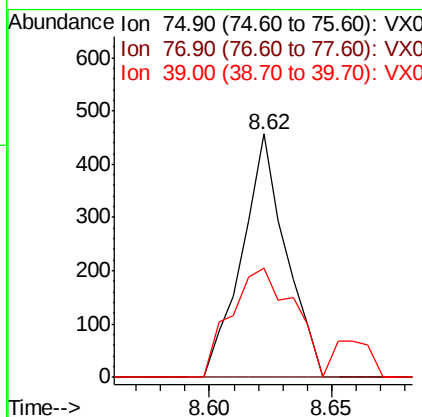
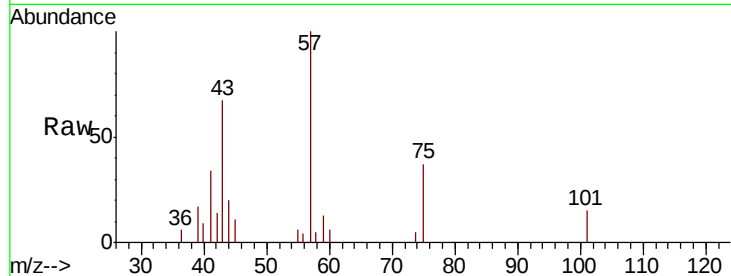




#54  
 cis-1,3-Dichloropropene  
 Concen: 0.286 ug/l  
 RT: 8.62 min Scan# 1225  
 Delta R.T. 0.18 min  
 Lab File: VX005763.D  
 Acq: 02 Nov 2018 18:17

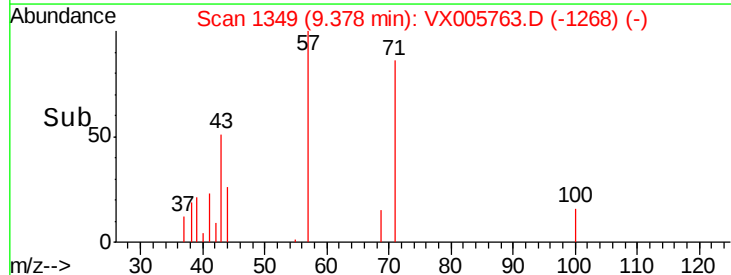
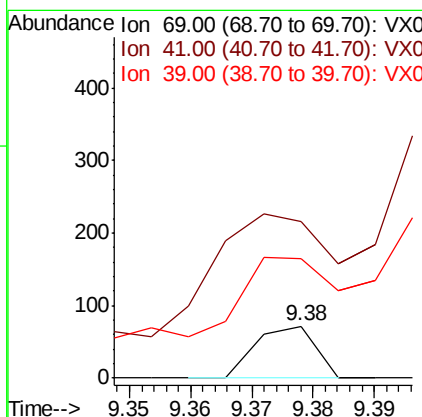
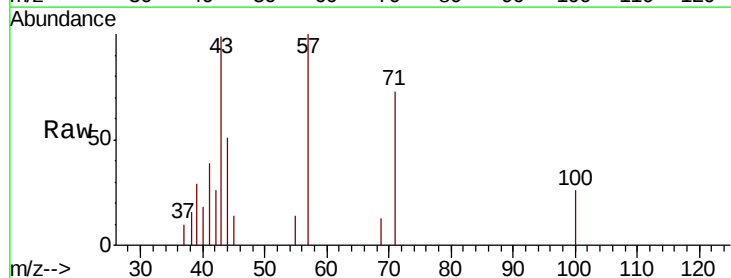
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB114401ZHE#14

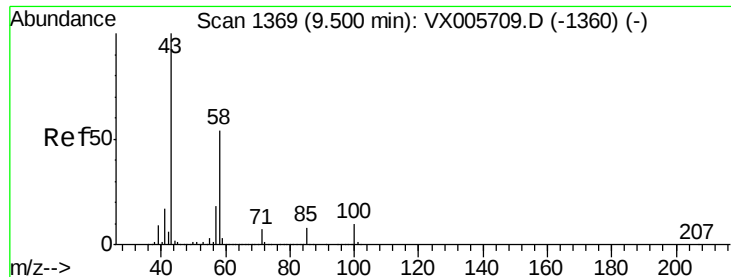
Tot Ion: 75 Resp: 573  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 25.2 37.8#  
 39 44.6 38.2 57.2



#56  
 Ethyl methacrylate  
 Concen: 2.492 ug/l  
 RT: 9.38 min Scan# 1349  
 Delta R.T. 0.20 min  
 Lab File: VX005763.D  
 Acq: 02 Nov 2018 18:17

Tgt Ion: 69 Resp: 49  
 Ion Ratio Lower Upper  
 69 100  
 41 451.0 57.0 85.6#  
 39 226.5 28.3 42.5#

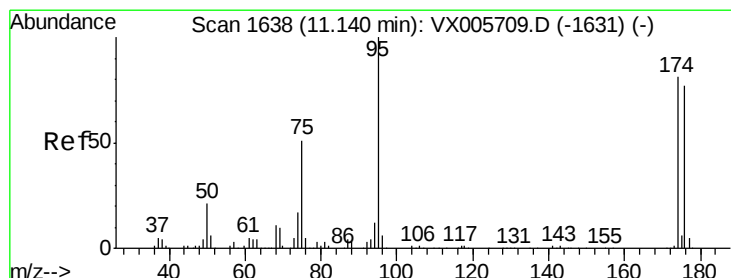
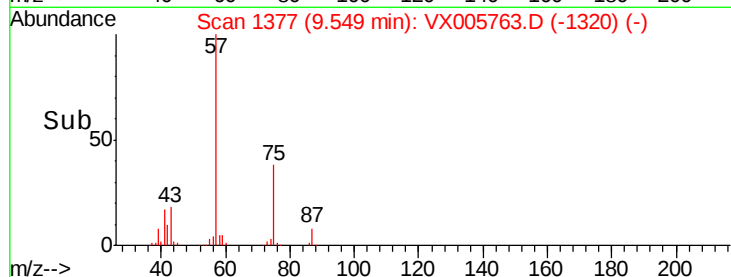
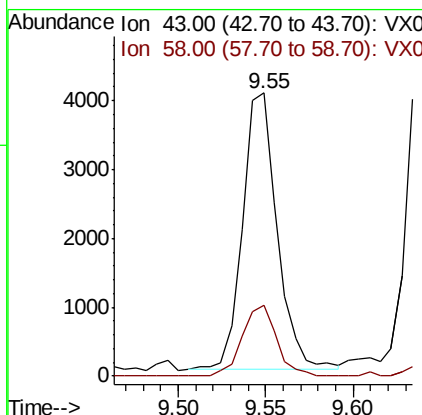
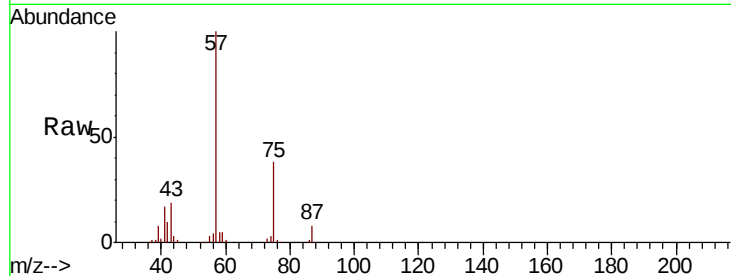




#59  
2-Hexanone  
Concen: 2.816 ug/l  
RT: 9.55 min Scan# 1377  
Delta R.T. 0.05 min  
Lab File: VX005763.D  
Acq: 02 Nov 2018 18:17

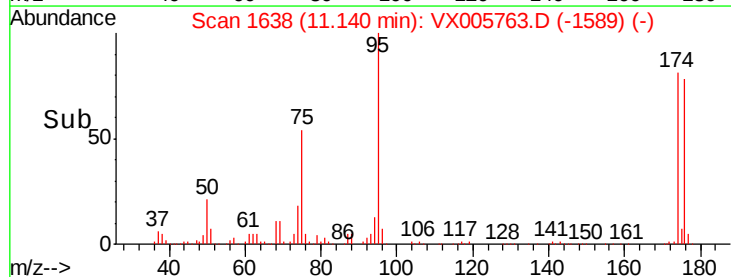
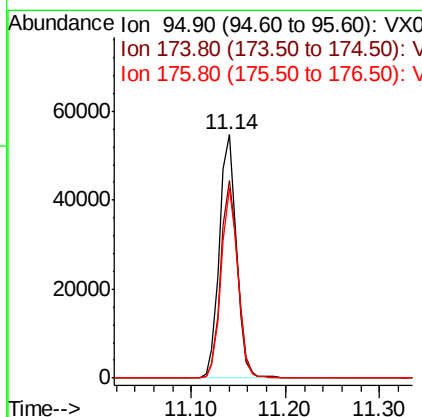
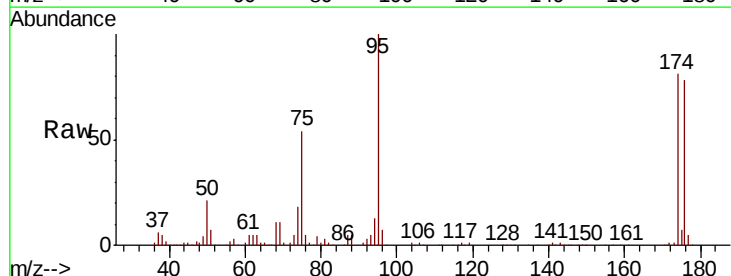
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB114401ZHE#14

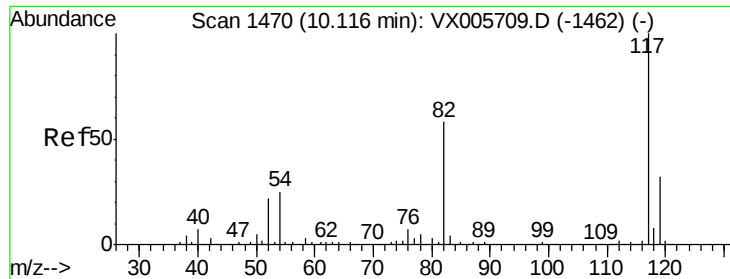
Tot Ion: 43 Resp: 5464  
Ion Ratio Lower Upper  
43 100  
58 25.7 25.9 77.8#



#62  
4-Bromofluorobenzene  
Concen: 43.636 ug/l  
RT: 11.14 min Scan# 1638  
Delta R.T. -0.00 min  
Lab File: VX005763.D  
Acq: 02 Nov 2018 18:17

Tgt Ion: 95 Resp: 69320  
Ion Ratio Lower Upper  
95 100  
174 81.1 0.0 184.4  
176 76.3 0.0 177.4

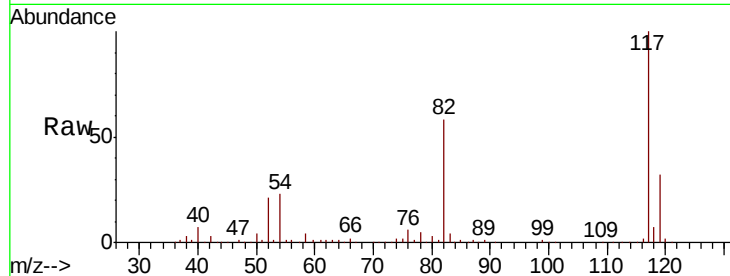




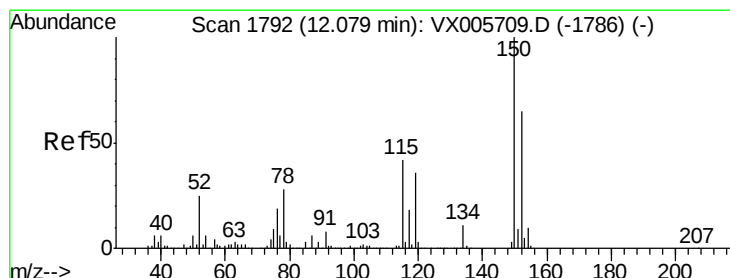
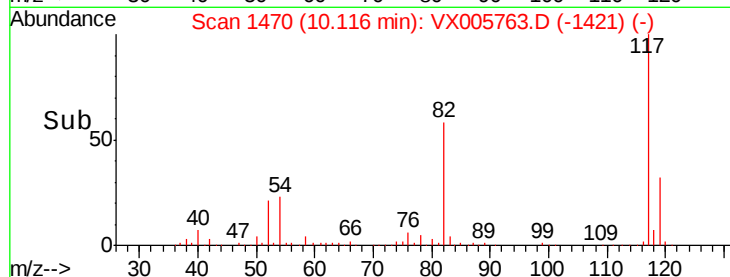
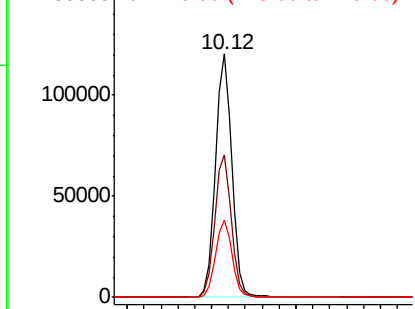
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.12 min Scan# 1470  
Delta R.T. 0.00 min  
Lab File: VX005763.D  
Acq: 02 Nov 2018 18:17

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB114401ZHE#14

Tot Ion:117 Resp: 163908  
Ion Ratio Lower Upper  
117 100  
82 58.4 44.1 66.1  
119 32.0 26.2 39.2

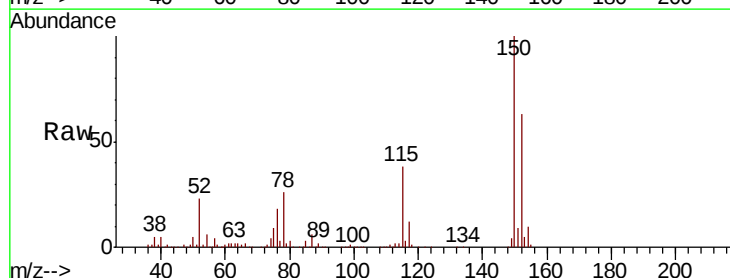


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

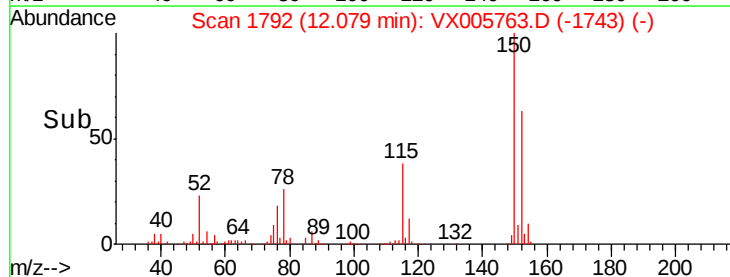
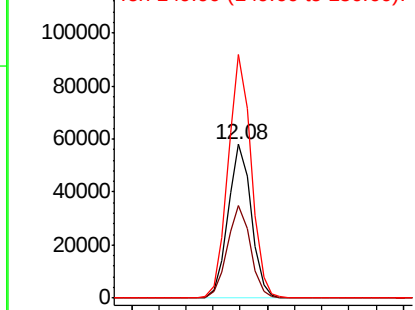


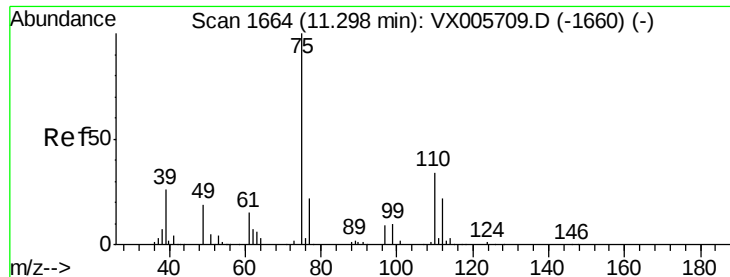
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. -0.00 min  
Lab File: VX005763.D  
Acq: 02 Nov 2018 18:17

Tgt Ion:152 Resp: 68731  
Ion Ratio Lower Upper  
152 100  
115 59.7 39.4 118.1  
150 157.2 0.0 346.4



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: 21.860 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005763.D

Acq: 02 Nov 2018 18:17

Instrument :

MSVOA\_X

ClientSampleId :

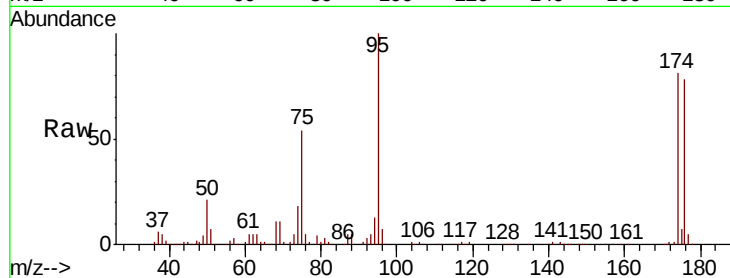
PB114401ZHE#14

Tot Ion: 75 Resp: 37421

Ion Ratio Lower Upper

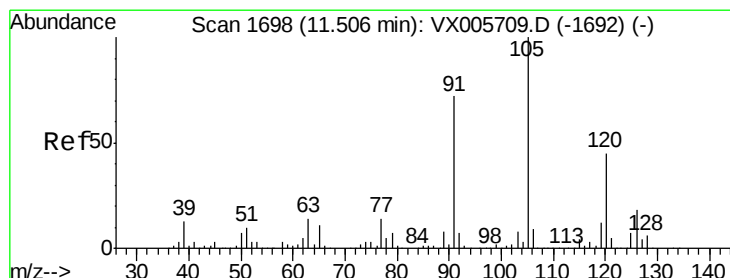
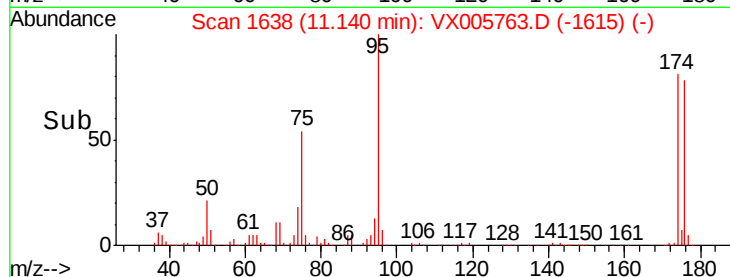
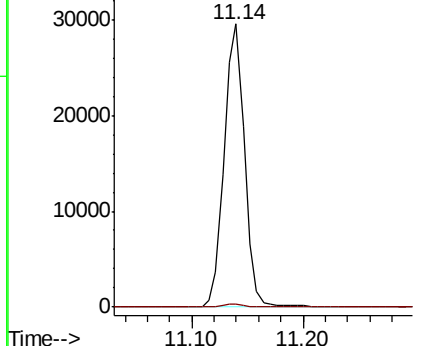
75 100

77 1.3 20.5 61.6#



Abundance Ion 74.90 (74.60 to 75.60): VX005709.D (-1660) (-)

Ion 77.00 (76.70 to 77.70): VX005709.D (-1660) (-)



#80

1,3,5-Trimethylbenzene

Concen: 0.279 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX005763.D

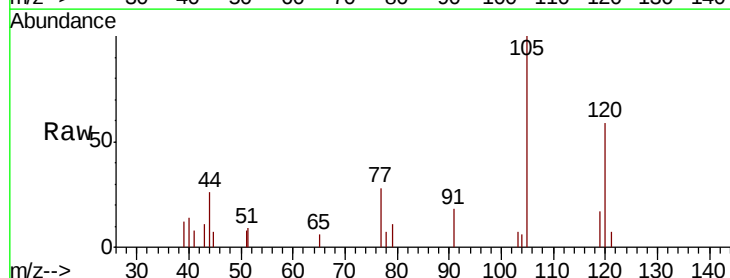
Acq: 02 Nov 2018 18:17

Tgt Ion: 105 Resp: 1075

Ion Ratio Lower Upper

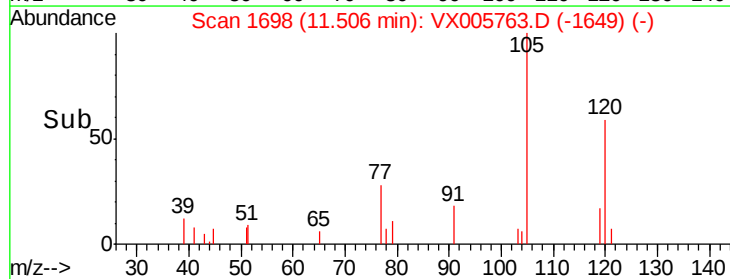
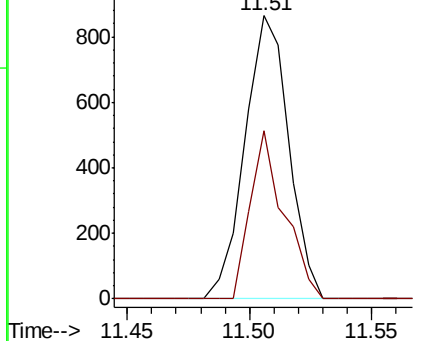
105 100

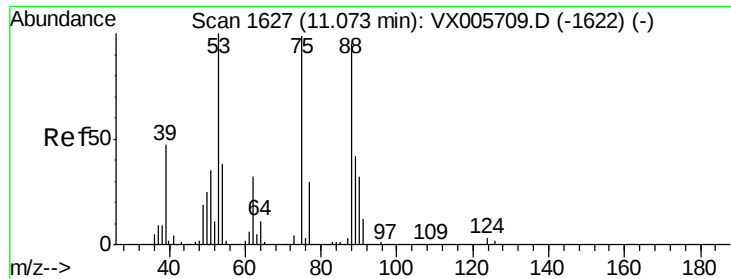
120 45.6 24.1 72.2



Abundance Ion 105.00 (104.70 to 105.70): VX005709.D (-1692) (-)

Ion 120.00 (119.70 to 120.70): VX005709.D (-1692) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 70.629 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005763.D

Acq: 02 Nov 2018 18:17

Instrument :

MSVOA\_X

ClientSampleId :

PB114401ZHE#14

Tot Ion: 75 Resp: 37421

Ion Ratio Lower Upper

75 100

53 0.4 80.2 120.2#

89 0.1 39.8 59.8#

