

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX081319\  
 Data File : VX011545.D  
 Acq On : 13 Aug 2019 18:48  
 Operator : JC/SP  
 Sample : K4336-06  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 KY038PS034-190812

Quant Time: Aug 14 01:10:27 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X080119W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 02 01:55:00 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 195449   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 293361   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 258348   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 114570   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 109913   | 55.84 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 111.68% |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 89917    | 46.95 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.90%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 340413   | 47.09 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.18%  |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 114359   | 44.30 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 88.60%  |          |

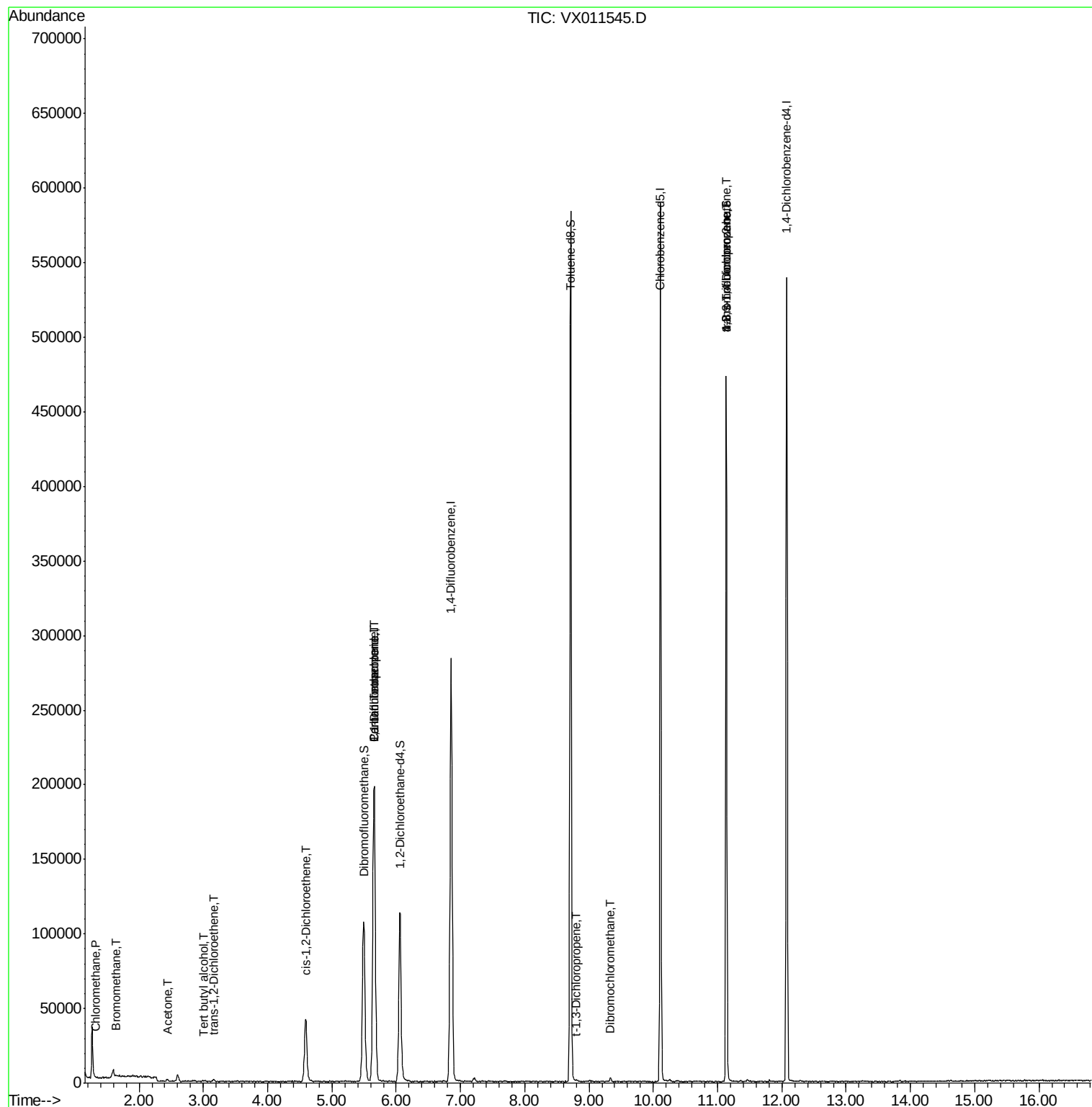
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 408      | 0.241     | ug/l # | 61     |
| 5) Bromomethane                | 1.64  | 94   | 531      | 0.399     | ug/l   | 98     |
| 6) Chloroethane                | 1.73  | 64   | 211      | Below Cal | #      | 82     |
| 11) Tert butyl alcohol         | 3.00  | 59   | 306      | 0.802     | ug/l # | 72     |
| 13) Acrolein                   | 2.30  | 56   | 42       | Below Cal | #      | 1      |
| 16) Acetone                    | 2.43  | 43   | 1879     | 2.006     | ug/l   | 95     |
| 21) trans-1,2-Dichloroethene   | 3.17  | 96   | 457      | 0.243     | ug/l # | 86     |
| 27) cis-1,2-Dichloroethene     | 4.59  | 96   | 28799    | 13.292    | ug/l   | 91     |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 13190    | 5.150     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 18428    | 7.151     | ug/l # | 15     |
| 53) t-1,3-Dichloropropene      | 8.81  | 75   | 42       | 2.852     | ug/l # | 43     |
| 60) Dibromochloromethane       | 9.34  | 129  | 456      | 0.214     | ug/l # | 10     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 59336    | 28.439    | ug/l # | 35     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 59336    | 73.590    | ug/l # | 10     |

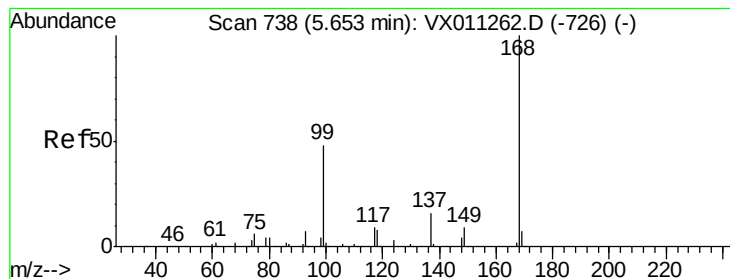
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
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Quant Time: Aug 14 01:10:27 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X080119W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 02 01:55:00 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011545.D

Acq: 13 Aug 2019 18:48

Instrument :

MSVOA\_X

ClientSampleId :

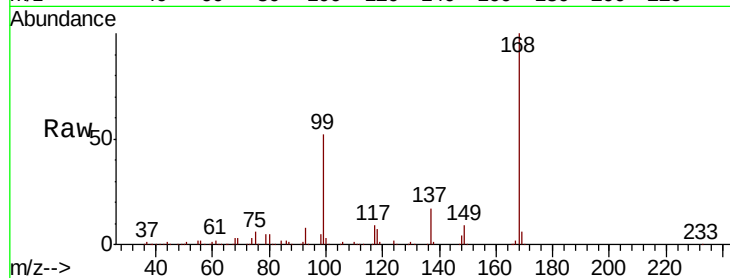
KY038PS034-190812

Tgt Ion:168 Resp: 195449

Ion Ratio Lower Upper

168 100

99 52.0 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): VX011262.D (-726) (-)

Ion 98.90 (98.60 to 99.60): VX011262.D (-726) (-)

5.66

80000

60000

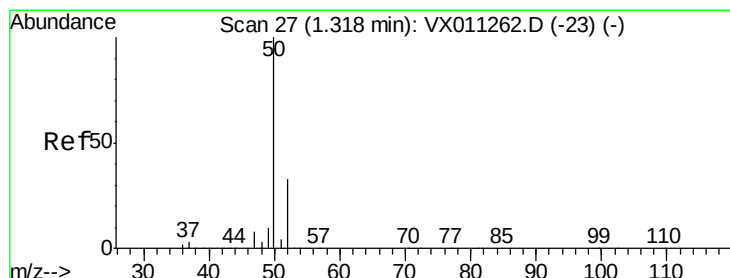
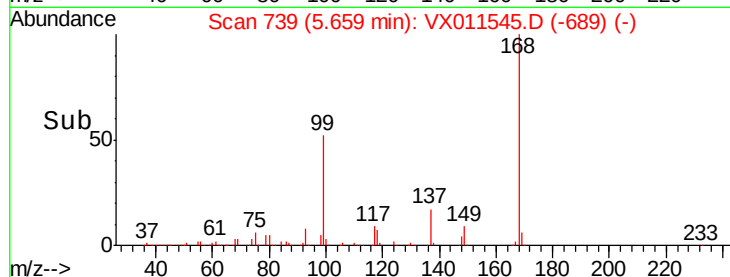
40000

20000

0

5.60 5.70 5.80

Time-->



#3

Chloromethane

Concen: 0.241 ug/l

RT: 1.32 min Scan# 27

Delta R.T. 0.00 min

Lab File: VX011545.D

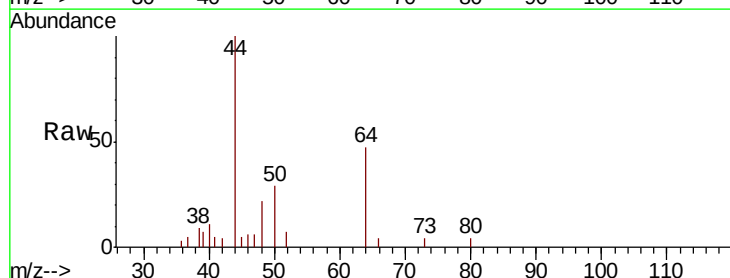
Acq: 13 Aug 2019 18:48

Tgt Ion: 50 Resp: 408

Ion Ratio Lower Upper

50 100

52 11.2 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VX011262.D (-23) (-)

Ion 51.90 (51.60 to 52.60): VX011262.D (-23) (-)

1.32

500

400

300

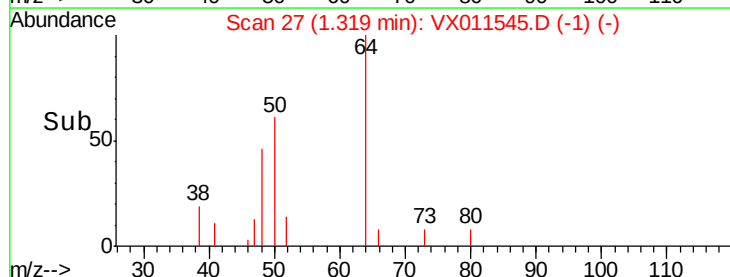
200

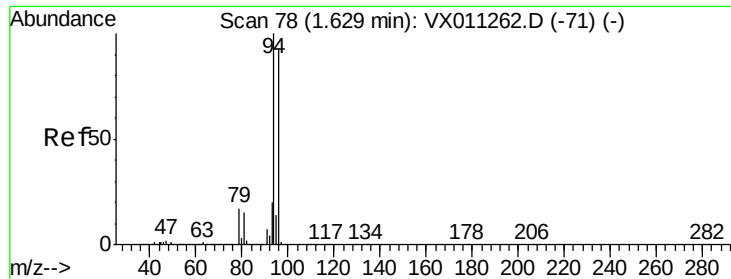
100

0

1.30 1.32 1.34 1.36

Time-->





#5

Bromomethane

Concen: 0.399 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX011545.D

Acq: 13 Aug 2019 18:48

Instrument :

MSVOA\_X

ClientSampleId :

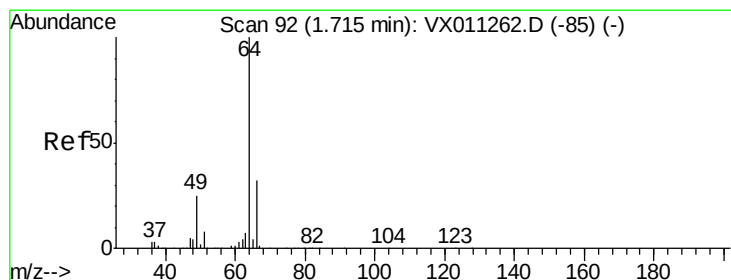
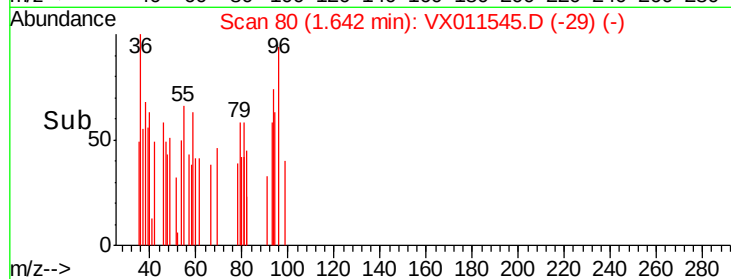
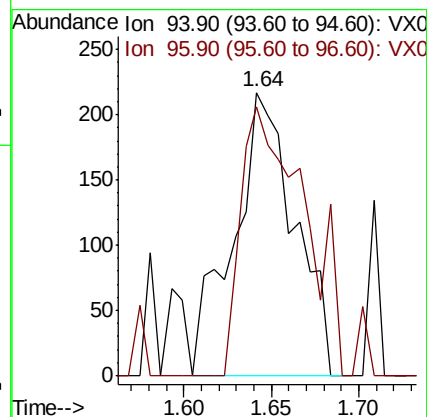
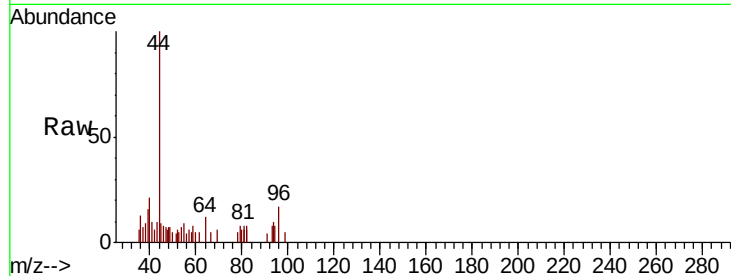
KY038PS034-190812

Tgt Ion: 94 Resp: 531

Ion Ratio Lower Upper

94 100

96 94.9 74.6 112.0



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 95

Delta R.T. 0.02 min

Lab File: VX011545.D

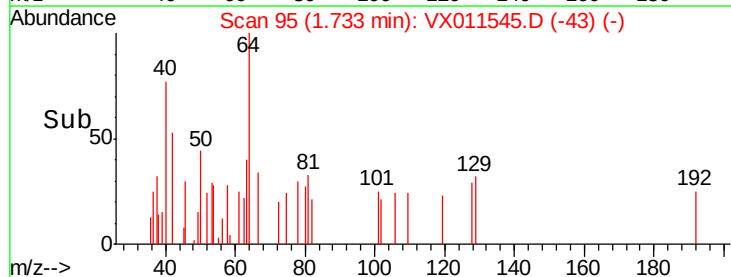
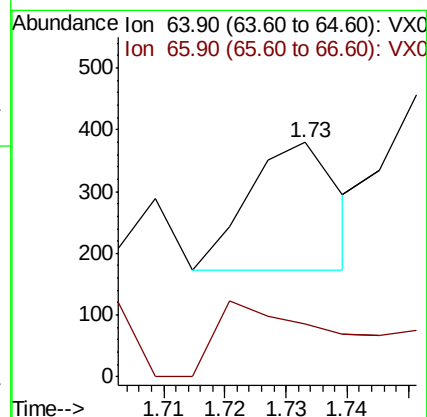
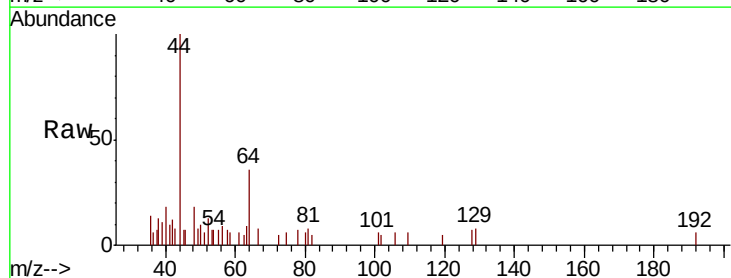
Acq: 13 Aug 2019 18:48

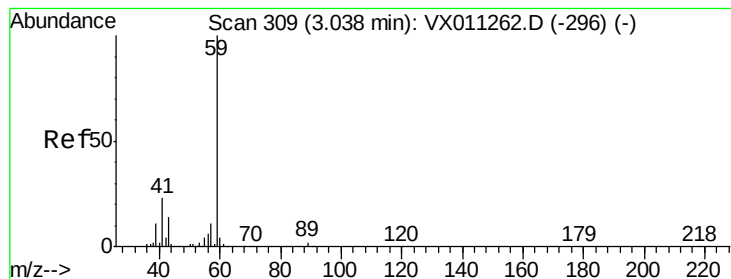
Tgt Ion: 64 Resp: 211

Ion Ratio Lower Upper

64 100

66 41.3 25.1 37.7#





#11

Tert butyl alcohol

Concen: 0.802 ug/l

RT: 3.00 min Scan# 303

Delta R.T. -0.04 min

Lab File: VX011545.D

Acq: 13 Aug 2019 18:48

Instrument :

MSVOA\_X

ClientSampleId :

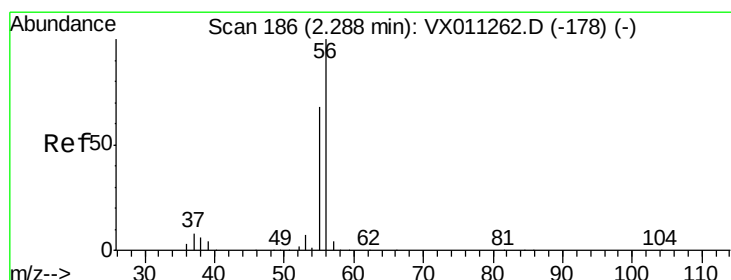
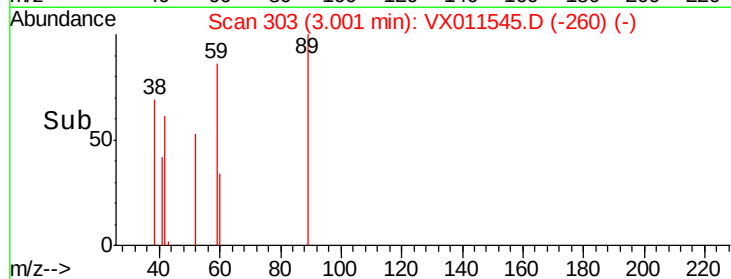
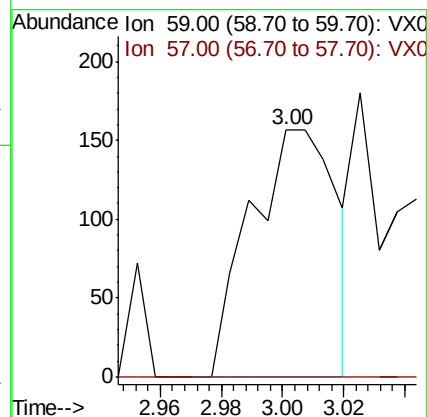
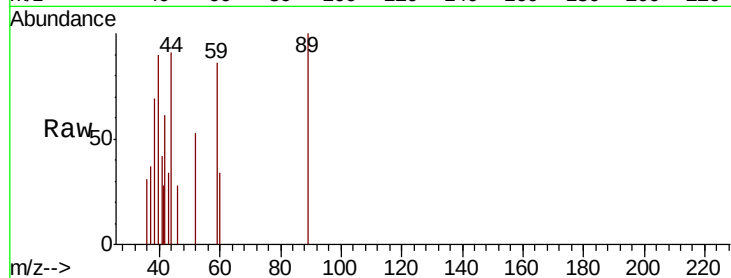
KY038PS034-190812

Tgt Ion: 59 Resp: 306

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#13

Acrolein

Concen: Below Cal

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX011545.D

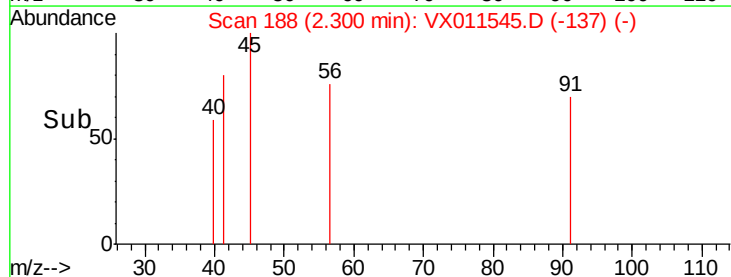
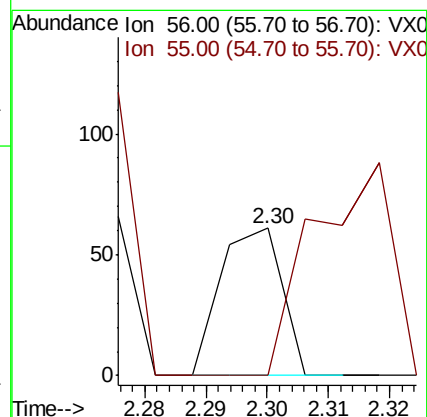
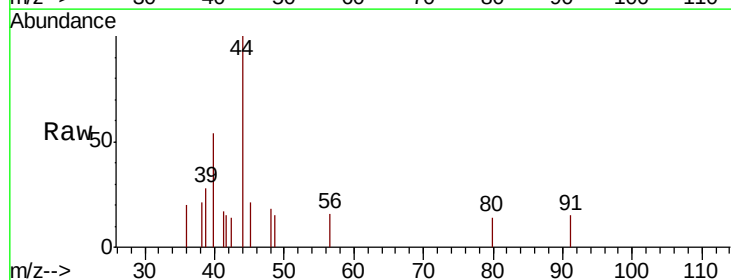
Acq: 13 Aug 2019 18:48

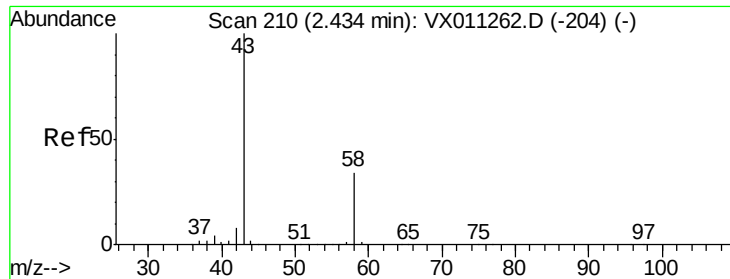
Tgt Ion: 56 Resp: 42

Ion Ratio Lower Upper

56 100

55 188.1 56.0 84.0#





#16

Acetone

Concen: 2.006 ug/l

RT: 2.43 min Scan# 210

Delta R.T. 0.00 min

Lab File: VX011545.D

Acq: 13 Aug 2019 18:48

Instrument :

MSVOA\_X

ClientSampleId :

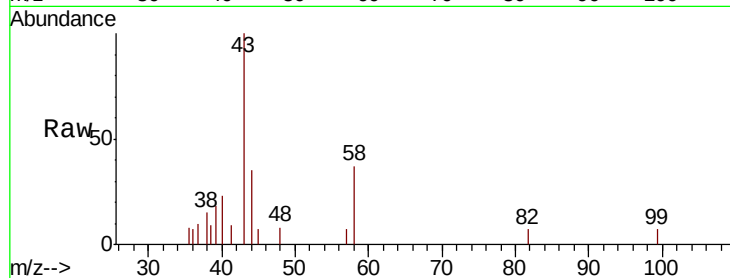
KY038PS034-190812

Tgt Ion: 43 Resp: 1879

Ion Ratio Lower Upper

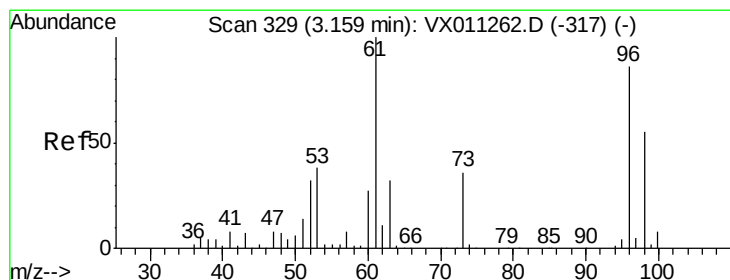
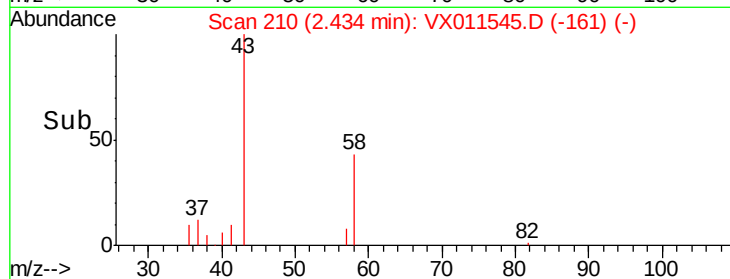
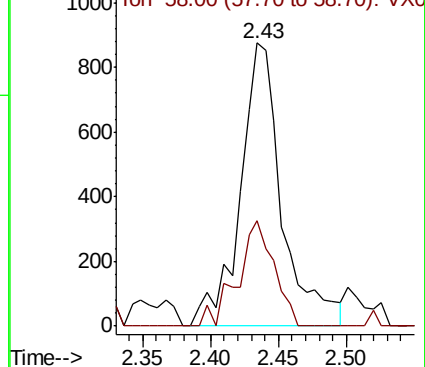
43 100

58 37.1 27.4 41.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#21

trans-1,2-Dichloroethene

Concen: 0.243 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.01 min

Lab File: VX011545.D

Acq: 13 Aug 2019 18:48

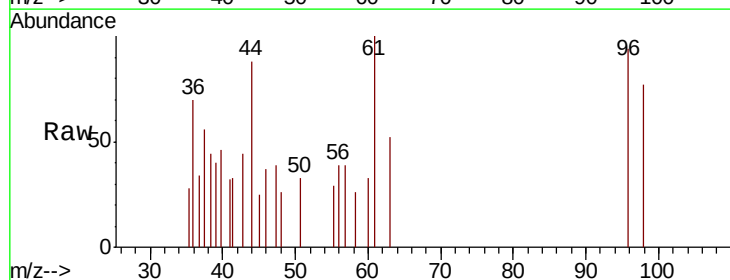
Tgt Ion: 96 Resp: 457

Ion Ratio Lower Upper

96 100

61 105.8 92.8 139.2

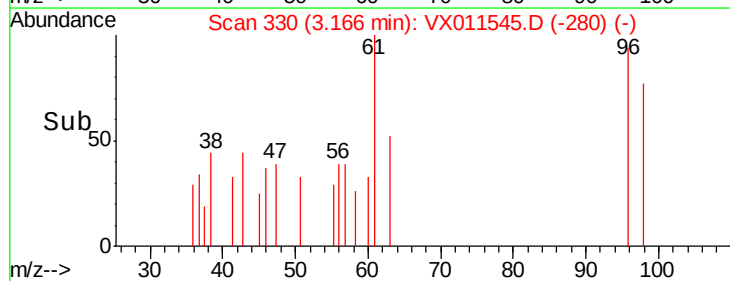
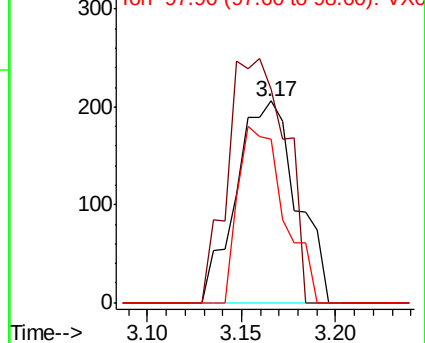
98 81.1 51.2 76.8#

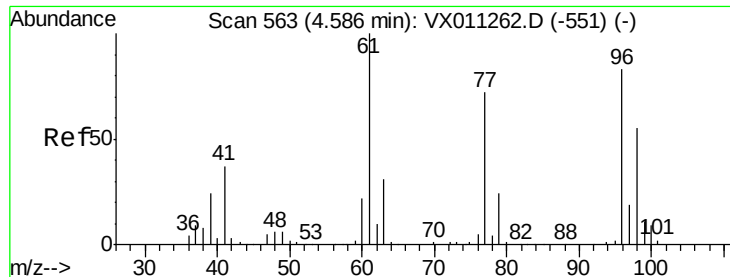


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



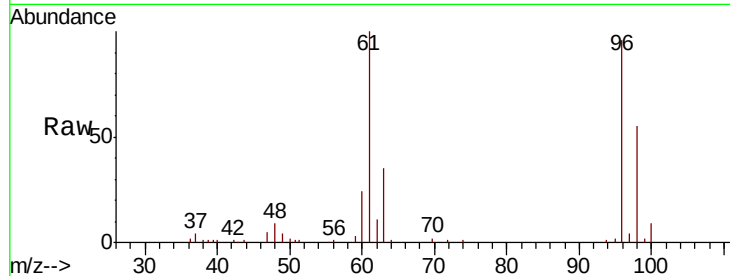


#27

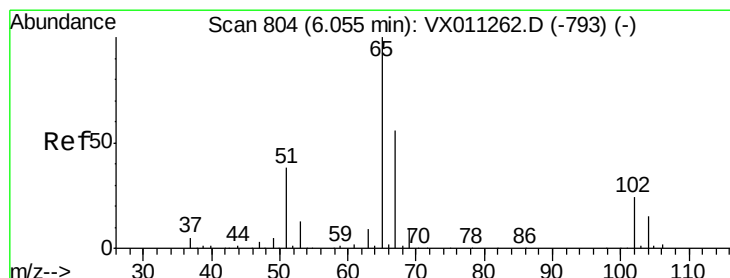
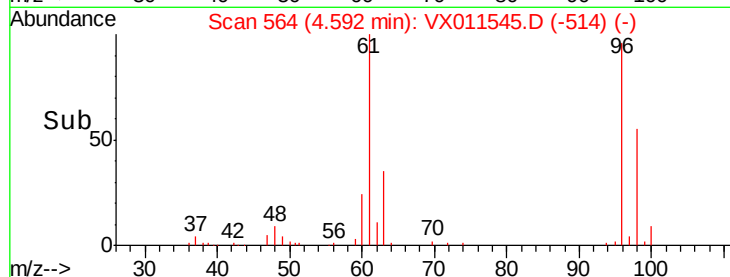
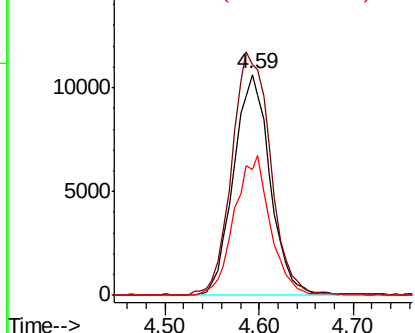
cis-1,2-Dichloroethene  
 Concen: 13.292 ug/l  
 RT: 4.59 min Scan# 564  
 Delta R.T. 0.01 min  
 Lab File: VX011545.D  
 Acq: 13 Aug 2019 18:48

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 KY038PS034-190812

Tgt Ion: 96 Resp: 28799  
 Ion Ratio Lower Upper  
 96 100  
 61 116.8 0.0 260.2  
 98 62.4 0.0 133.2



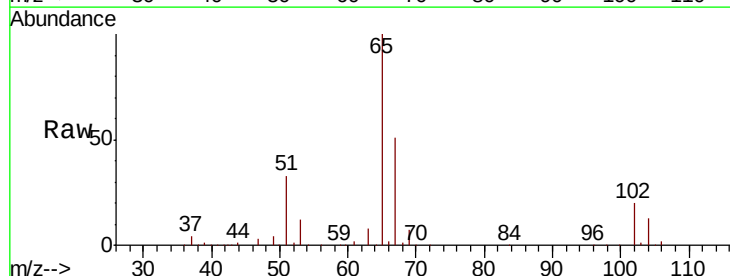
Abundance Ion 95.90 (95.60 to 96.60): VX0  
 Ion 60.90 (60.60 to 61.60): VX0  
 Ion 97.90 (97.60 to 98.60): VX0



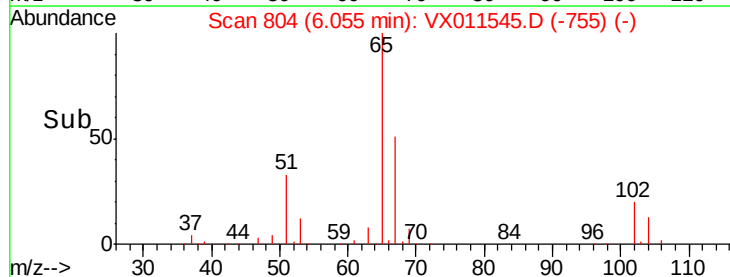
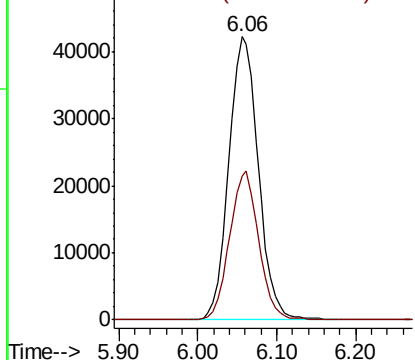
#33

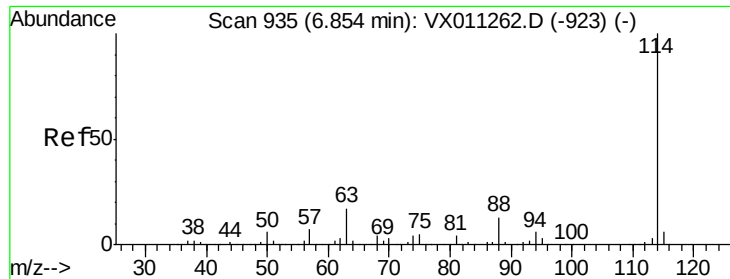
1,2-Dichloroethane-d4  
 Concen: 55.842 ug/l  
 RT: 6.06 min Scan# 804  
 Delta R.T. 0.00 min  
 Lab File: VX011545.D  
 Acq: 13 Aug 2019 18:48

Tgt Ion: 65 Resp: 109913  
 Ion Ratio Lower Upper  
 65 100  
 67 51.6 0.0 110.6



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

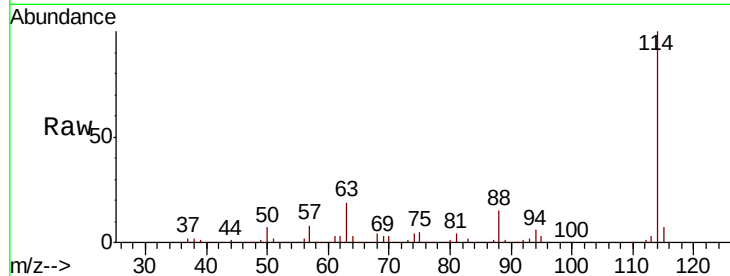




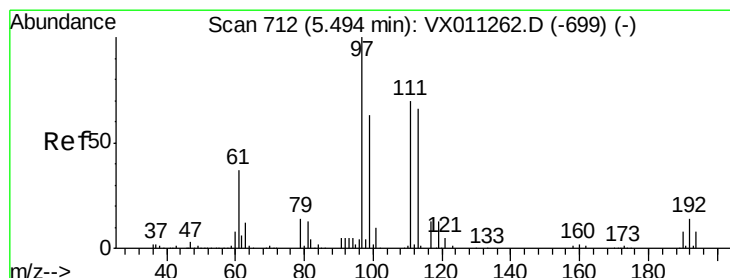
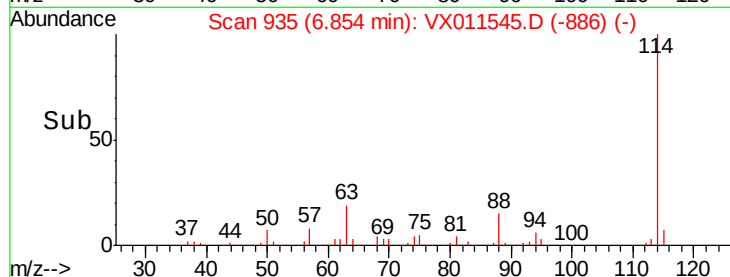
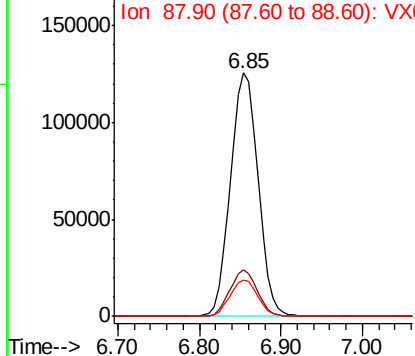
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.85 min Scan# 935  
 Delta R.T. 0.00 min  
 Lab File: VX011545.D  
 Acq: 13 Aug 2019 18:48

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 KY038PS034-190812

Tgt Ion:114 Resp: 293361  
 Ion Ratio Lower Upper  
 114 100  
 63 18.9 0.0 34.0  
 88 15.1 0.0 26.4

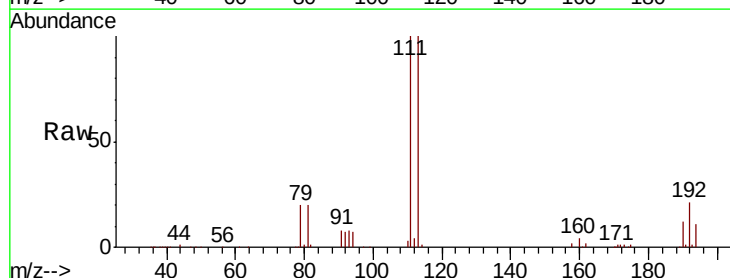


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VX0  
 Ion 87.90 (87.60 to 88.60): VX0

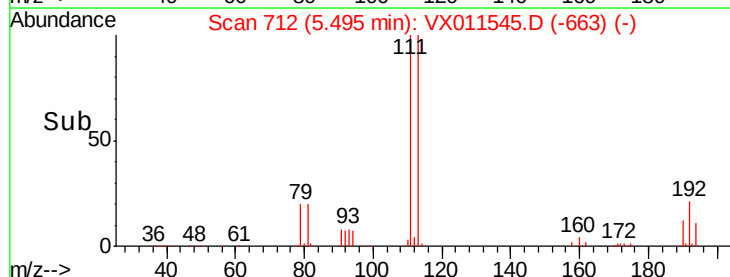
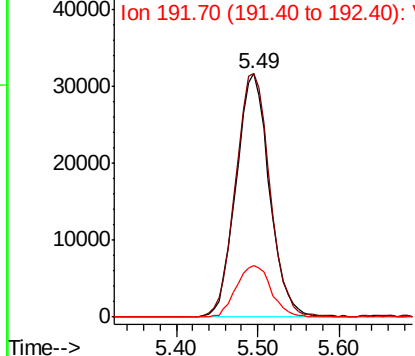


#35  
 Dibromofluoromethane  
 Concen: 46.947 ug/l  
 RT: 5.49 min Scan# 712  
 Delta R.T. 0.00 min  
 Lab File: VX011545.D  
 Acq: 13 Aug 2019 18:48

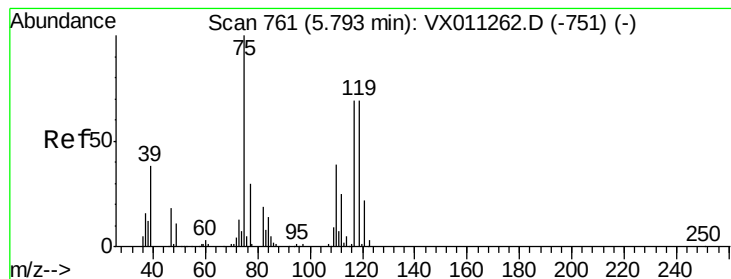
Tgt Ion:113 Resp: 89917  
 Ion Ratio Lower Upper  
 113 100  
 111 102.4 81.9 122.9  
 192 22.1 17.8 26.8



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: 5.150 ug/l

RT: 5.65 min Scan# 738

Delta R.T. -0.14 min

Lab File: VX011545.D

Acq: 13 Aug 2019 18:48

Instrument :

MSVOA\_X

ClientSampleId :

KY038PS034-190812

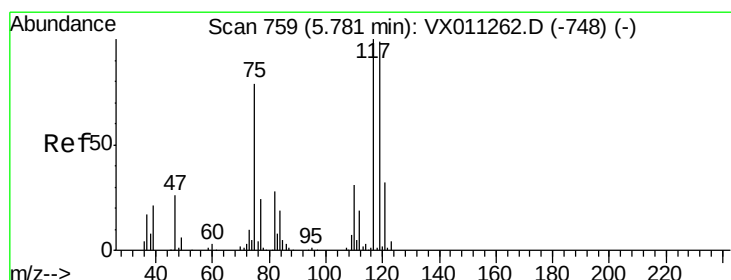
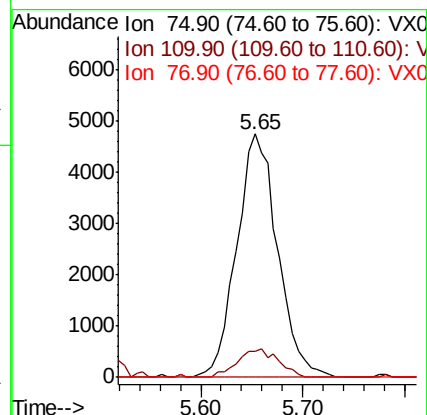
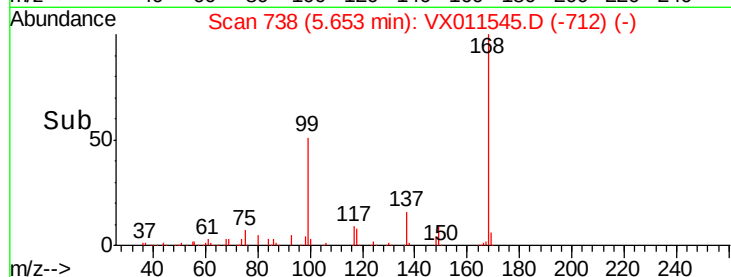
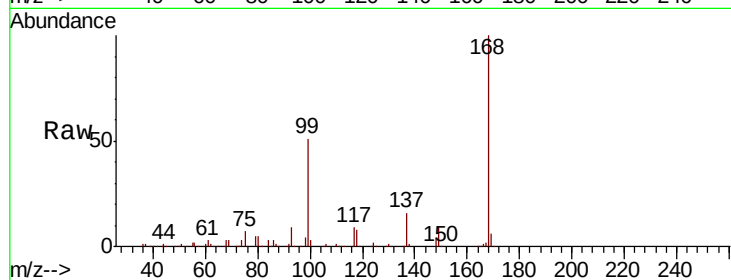
Tgt Ion: 75 Resp: 13190

Ion Ratio Lower Upper

75 100

110 11.6 20.0 59.9#

77 0.0 24.8 37.2#



#38

Carbon Tetrachloride

Concen: 7.151 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX011545.D

Acq: 13 Aug 2019 18:48

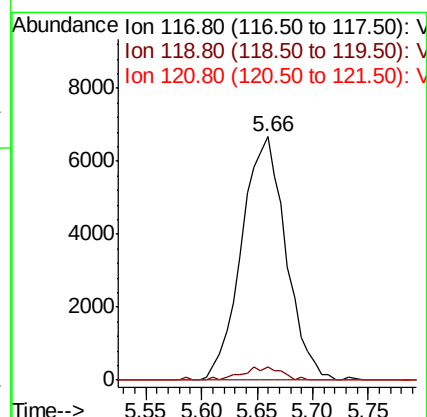
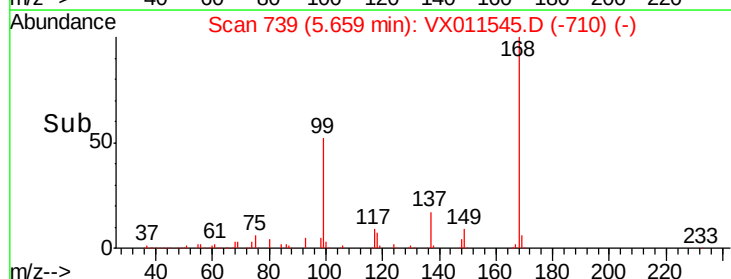
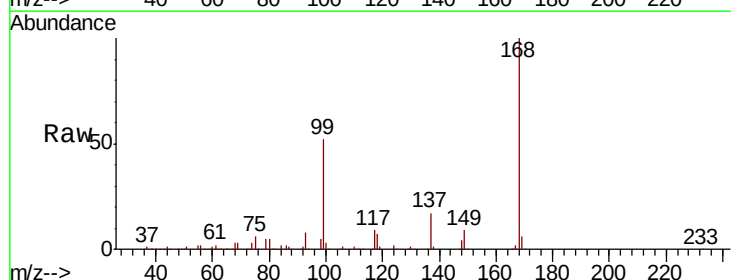
Tgt Ion: 117 Resp: 18428

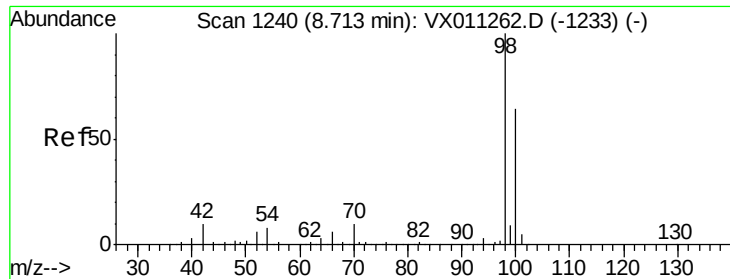
Ion Ratio Lower Upper

117 100

119 5.6 79.0 118.4#

121 0.0 25.9 38.9#

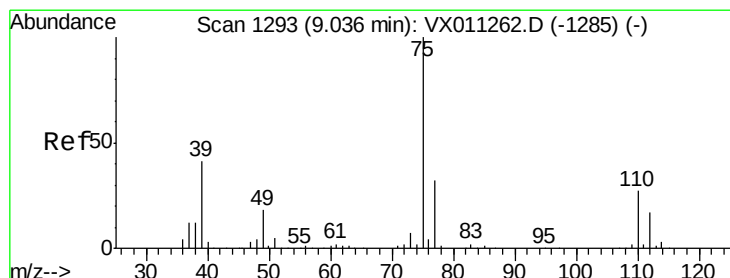
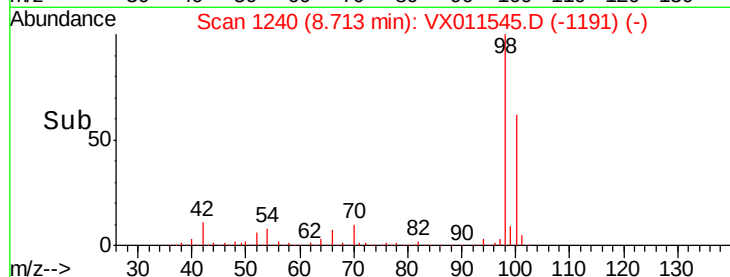
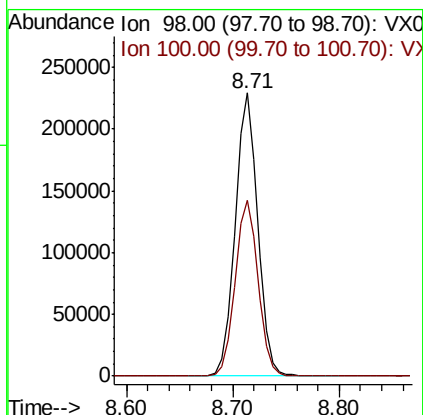
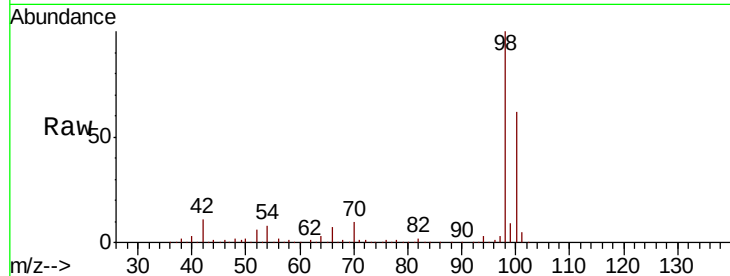




#50  
Toluene-d8  
Concen: 47.086 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX011545.D  
Acq: 13 Aug 2019 18:48

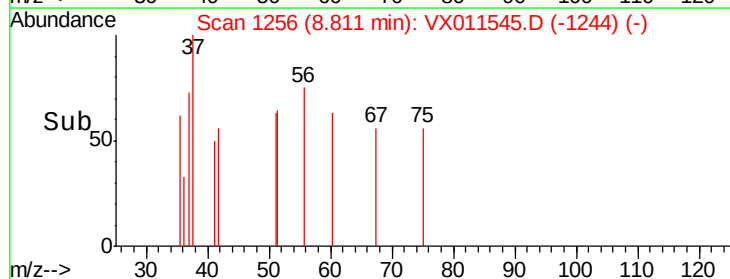
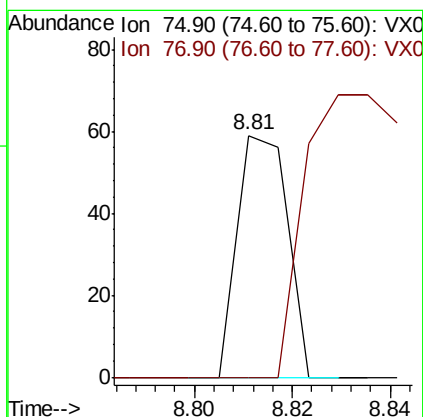
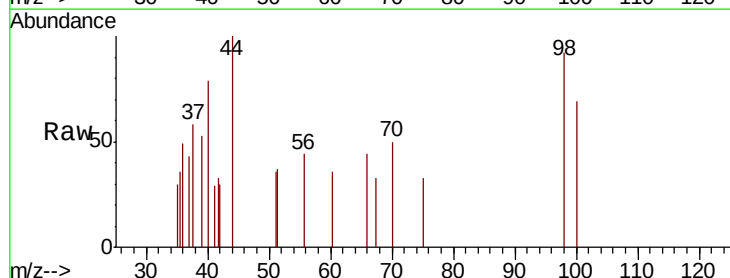
Instrument :  
MSVOA\_X  
ClientSampleId :  
KY038PS034-190812

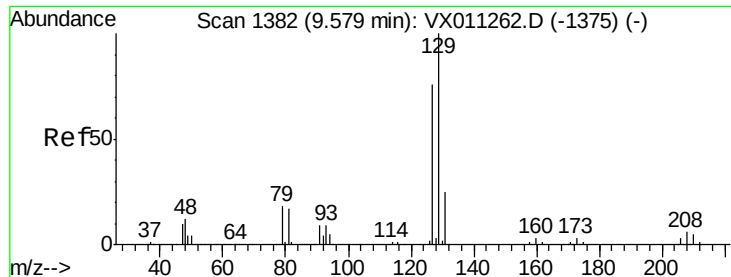
Tgt Ion: 98 Resp: 340413  
Ion Ratio Lower Upper  
98 100  
100 63.1 51.7 77.5



#53  
t-1,3-Dichloropropene  
Concen: 2.852 ug/l  
RT: 8.81 min Scan# 1256  
Delta R.T. -0.22 min  
Lab File: VX011545.D  
Acq: 13 Aug 2019 18:48

Tgt Ion: 75 Resp: 42  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.4 38.0#





#60

Dibromochloromethane

Concen: 0.214 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX011545.D

Acq: 13 Aug 2019 18:48

Instrument :

MSVOA\_X

ClientSampleId :

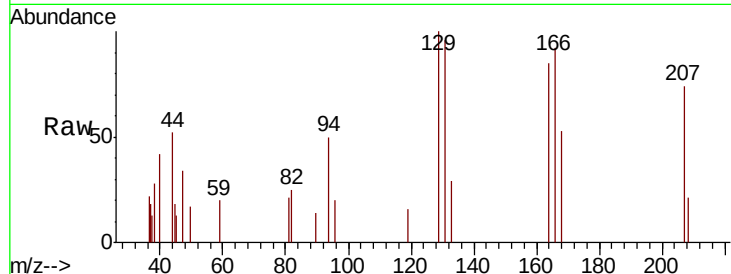
KY038PS034-190812

Tgt Ion: 129 Resp: 456

Ion Ratio Lower Upper

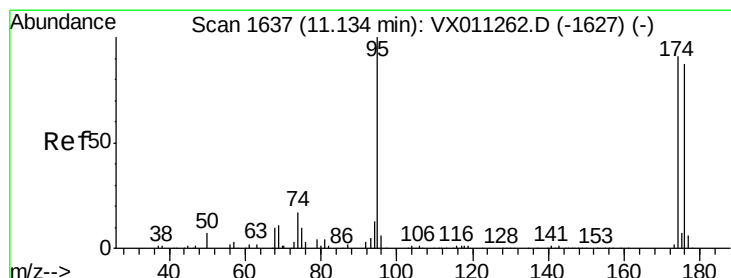
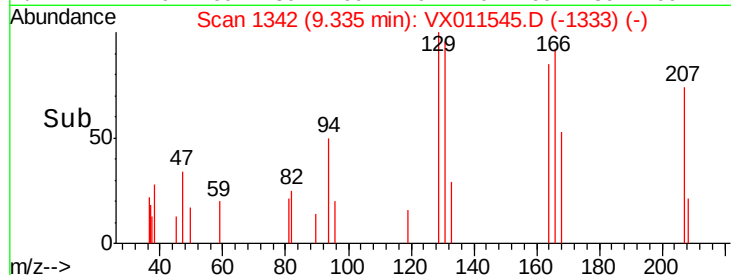
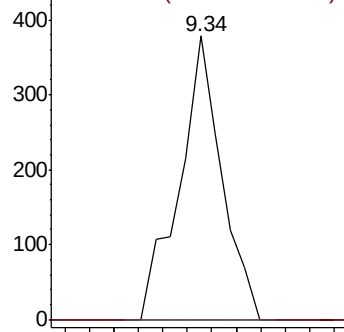
129 100

127 0.0 39.2 117.6#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



#62

4-Bromofluorobenzene

Concen: 44.305 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX011545.D

Acq: 13 Aug 2019 18:48

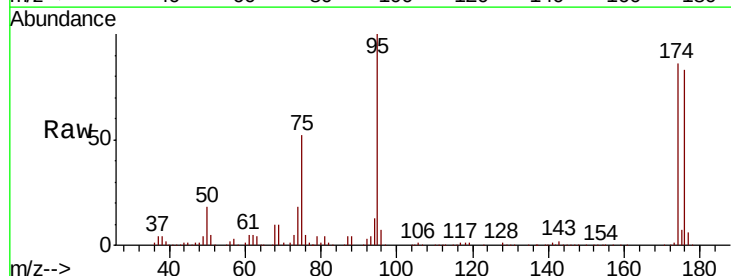
Tgt Ion: 95 Resp: 114359

Ion Ratio Lower Upper

95 100

174 89.5 0.0 191.2

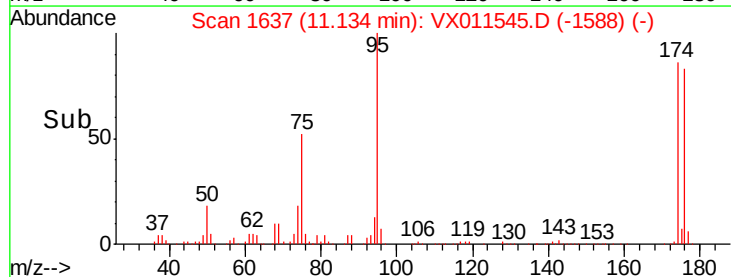
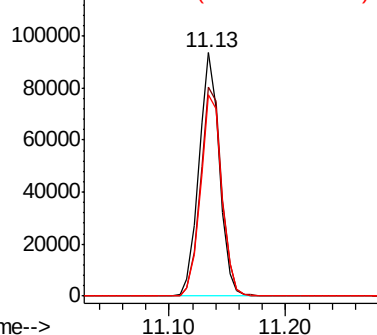
176 86.0 0.0 184.8

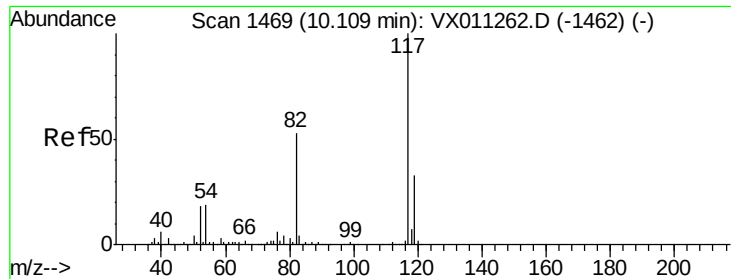


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

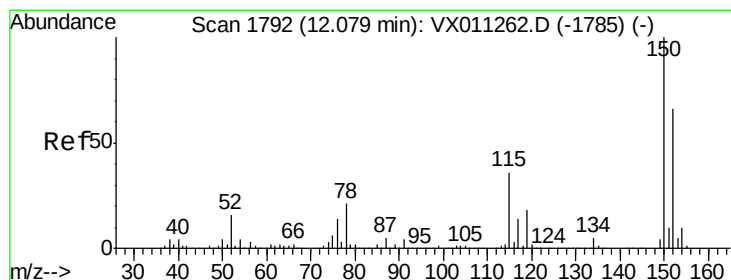
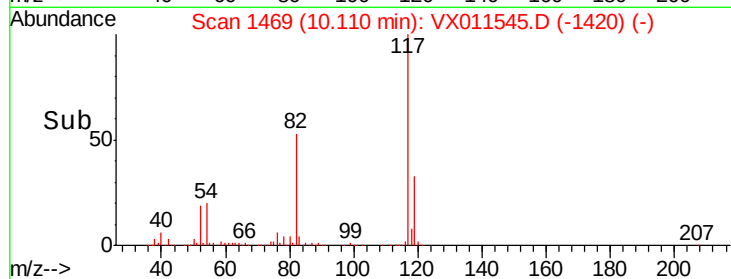
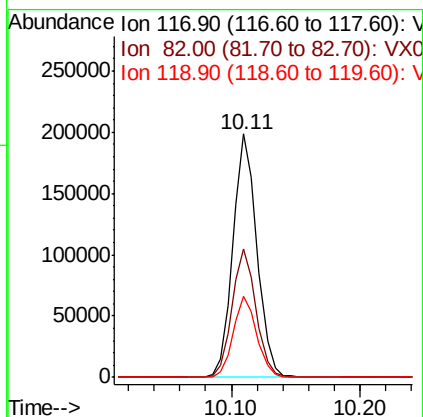
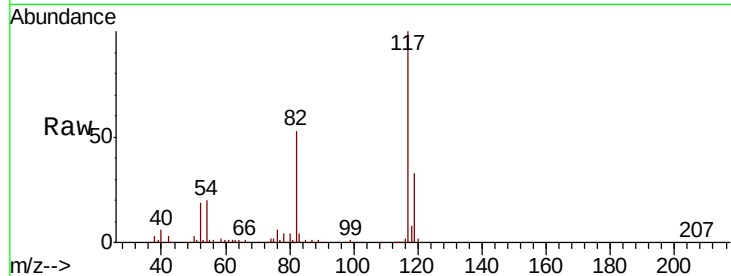




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX011545.D  
Acq: 13 Aug 2019 18:48

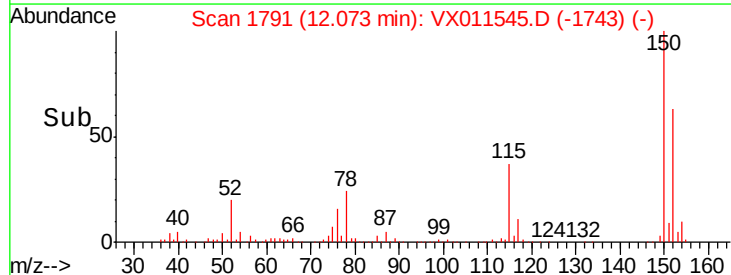
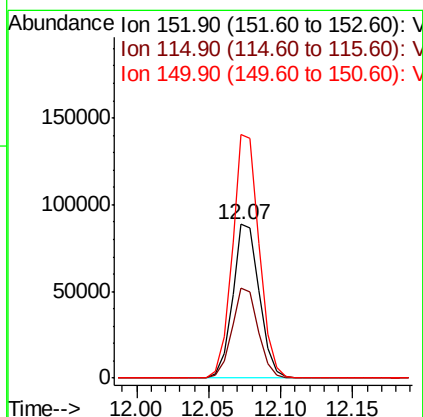
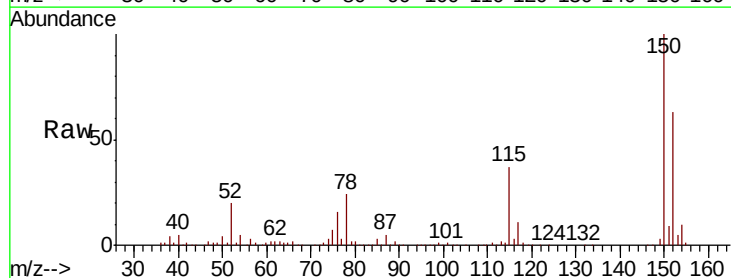
Instrument :  
MSVOA\_X  
ClientSampleId :  
KY038PS034-190812

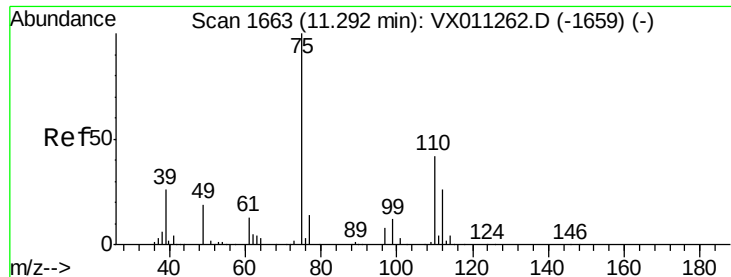
Tgt Ion:117 Resp: 258348  
Ion Ratio Lower Upper  
117 100  
82 52.5 42.2 63.2  
119 33.4 26.6 39.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1791  
Delta R.T. -0.01 min  
Lab File: VX011545.D  
Acq: 13 Aug 2019 18:48

Tgt Ion:152 Resp: 114570  
Ion Ratio Lower Upper  
152 100  
115 57.9 40.0 119.9  
150 159.0 0.0 350.4





#76

1,2,3-Trichloropropane

Concen: 28.439 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011545.D

Acq: 13 Aug 2019 18:48

Instrument :

MSVOA\_X

ClientSampleId :

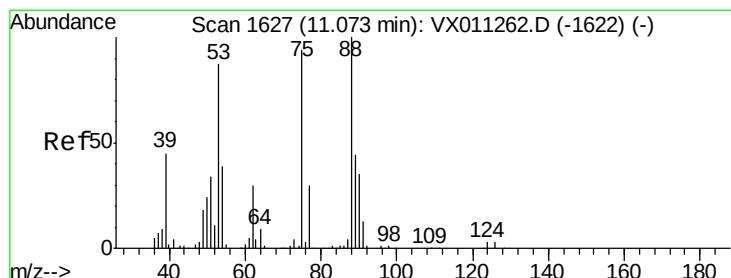
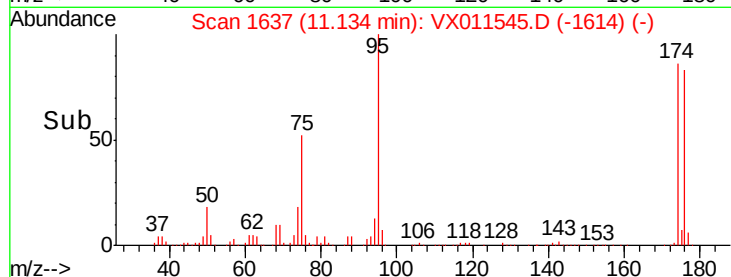
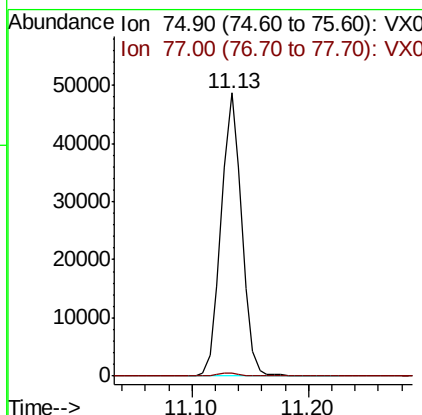
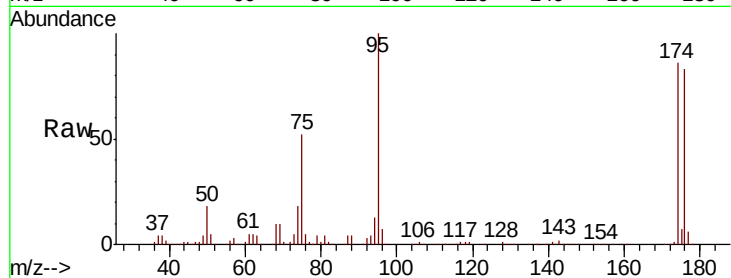
KY038PS034-190812

Tgt Ion: 75 Resp: 59336

Ion Ratio Lower Upper

75 100

77 1.2 21.1 63.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 73.590 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011545.D

Acq: 13 Aug 2019 18:48

Tgt Ion: 75 Resp: 59336

Ion Ratio Lower Upper

75 100

53 0.0 78.2 117.4#

89 0.1 37.9 56.9#

