

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX122319\  
 Data File : VX014227.D  
 Acq On : 24 Dec 2019 02:04  
 Operator : JC/SP  
 Sample : K6401-05 800X  
 Misc : 4.53g/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 41 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 C0B39

Quant Time: Dec 24 03:49:51 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X121319W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 17 03:01:07 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 552472   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 845621   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 767112   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 353880   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.05  | 65   | 307733   | 49.15 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.30%  |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 252355   | 49.09 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.18%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 1012944  | 50.61 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.22% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 345408   | 47.21 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.42%  |          |

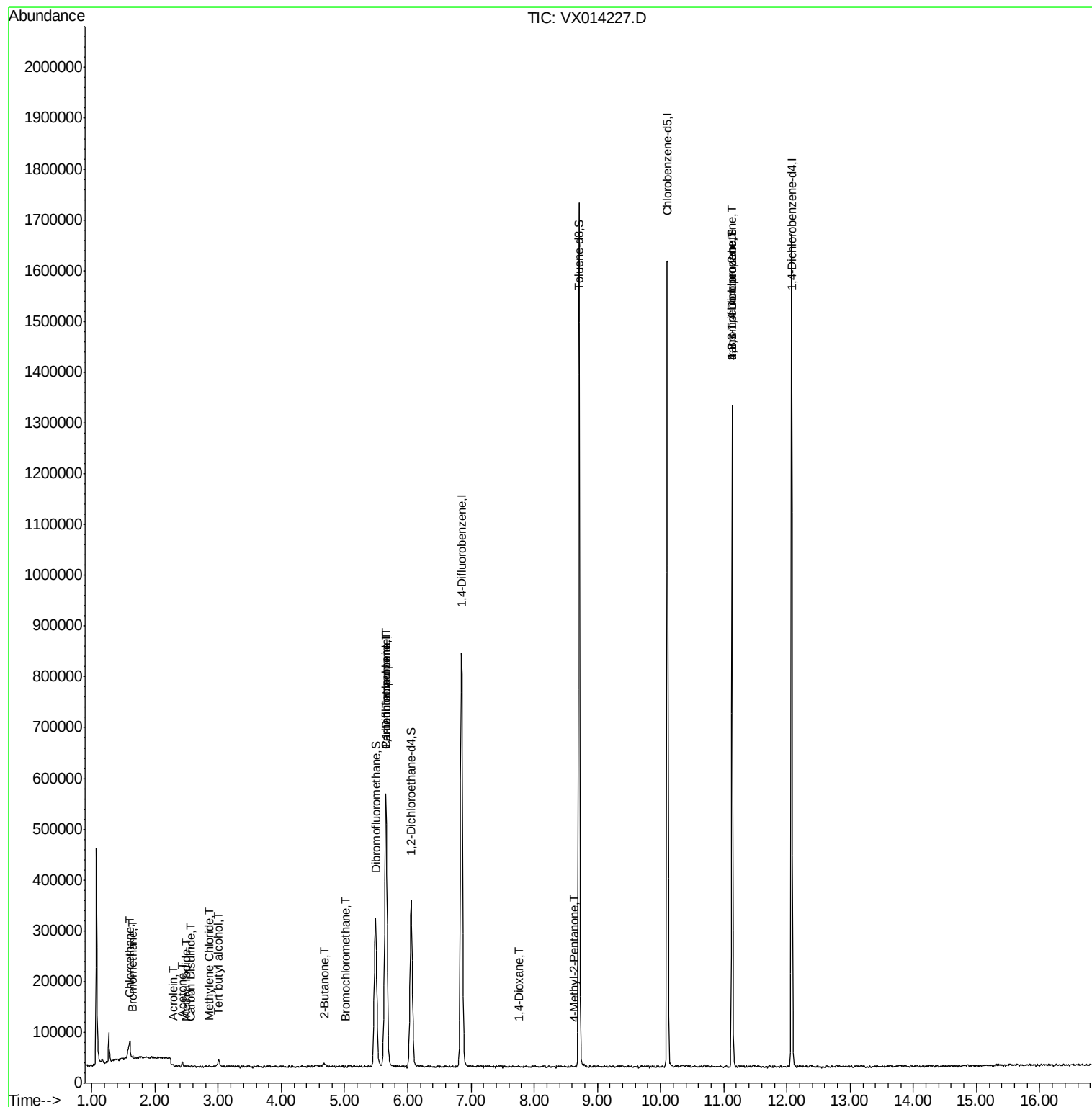
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 5) Bromomethane                | 1.64  | 94   | 1678     | 0.338  | ug/l # | 46     |
| 6) Chloroethane                | 1.59  | 64   | 7020     | 1.625  | ug/l # | 45     |
| 10) Methyl Iodide              | 2.49  | 142  | 141      | 2.640  | ug/l # | 43     |
| 11) Tert butyl alcohol         | 3.00  | 59   | 8759     | 6.474  | ug/l # | 85     |
| 13) Acrolein                   | 2.30  | 56   | 574      | 0.741  | ug/l   | 97     |
| 16) Acetone                    | 2.43  | 43   | 9390     | 2.310  | ug/l   | 96     |
| 17) Carbon Disulfide           | 2.56  | 76   | 1253     | 0.834  | ug/l # | 82     |
| 20) Methylene Chloride         | 2.85  | 84   | 1637     | 0.256  | ug/l # | 79     |
| 25) 2-Butanone                 | 4.67  | 43   | 1012     | 0.202  | ug/l # | 22     |
| 28) Bromochloromethane         | 5.01  | 49   | 1189     | 0.745  | ug/l # | 44     |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 36018    | 4.642  | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 49007    | 6.933  | ug/l # | 15     |
| 49) 1,4-Dioxane                | 7.75  | 88   | 318      | 2.250  | ug/l # | 30     |
| 51) 4-Methyl-2-Pentanone       | 8.64  | 43   | 2257     | 0.253  | ug/l # | 82     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 168411   | 21.921 | ug/l # | 39     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 168411   | 61.872 | ug/l # | 11     |

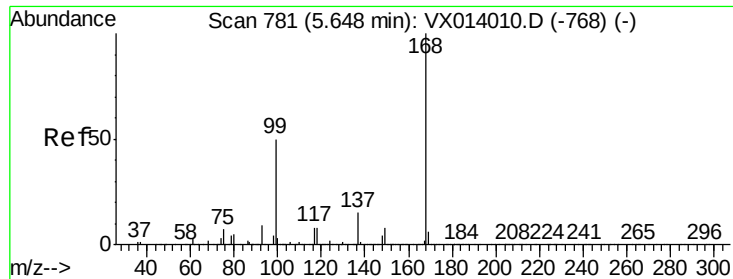
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
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Quant Time: Dec 24 03:49:51 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X121319W.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 17 03:01:07 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.01 min

Lab File: VX014227.D

Acq: 24 Dec 2019 02:04

Instrument :

MSVOA\_X

ClientSampleId :

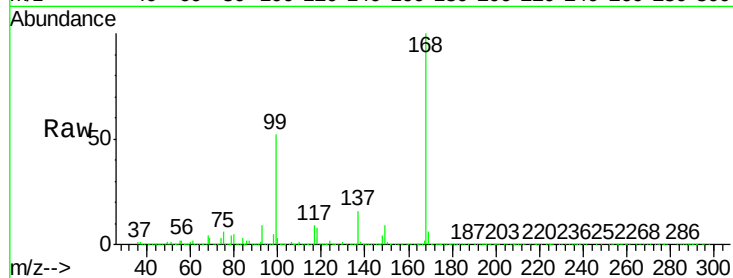
C0B39

Tgt Ion:168 Resp: 552472

Ion Ratio Lower Upper

168 100

99 51.7 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

150000

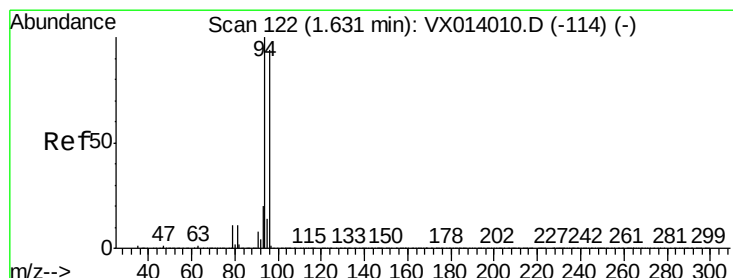
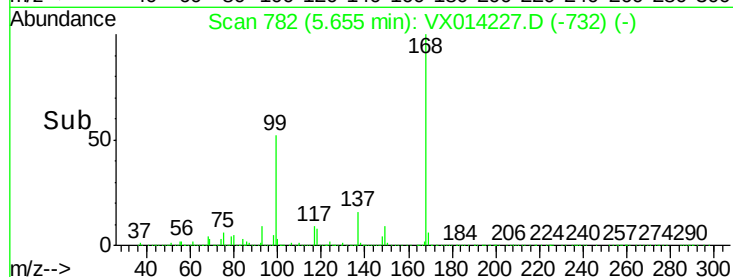
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.338 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX014227.D

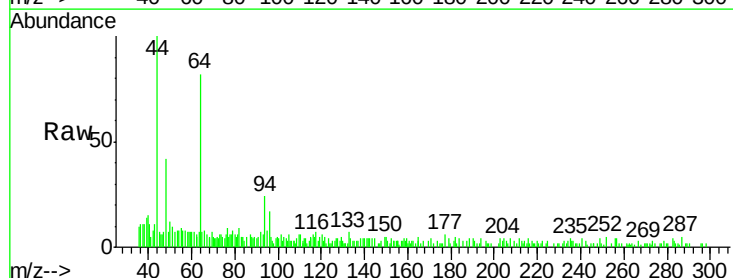
Acq: 24 Dec 2019 02:04

Tgt Ion: 94 Resp: 1678

Ion Ratio Lower Upper

94 100

96 42.0 75.2 112.8#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

1000

800

600

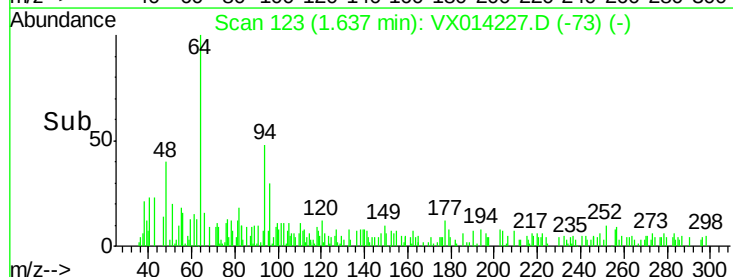
400

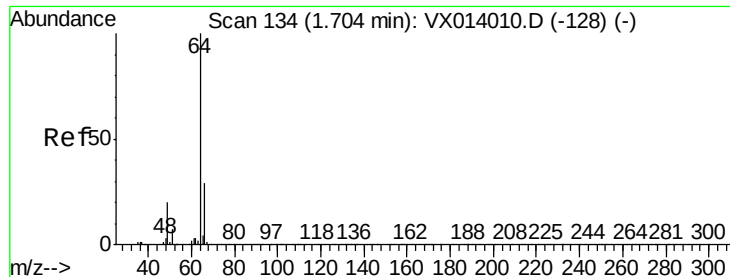
200

0

Time-->

1.60 1.65 1.70





#6

Chloroethane

Concen: 1.625 ug/l

RT: 1.59 min Scan# 115

Delta R.T. -0.12 min

Lab File: VX014227.D

Acq: 24 Dec 2019 02:04

Instrument :

MSVOA\_X

ClientSampleId :

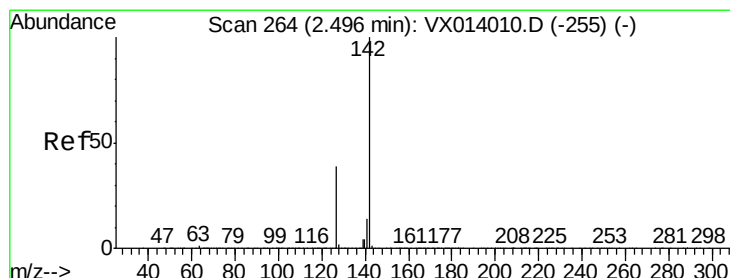
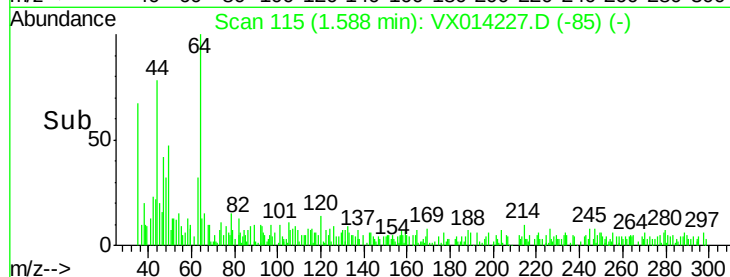
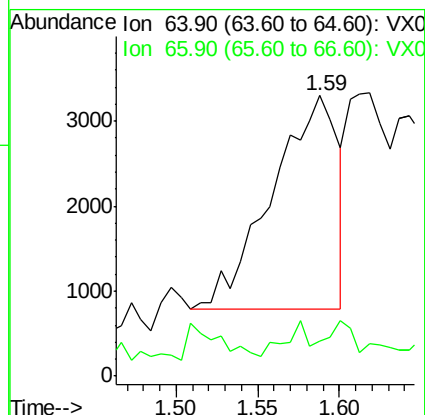
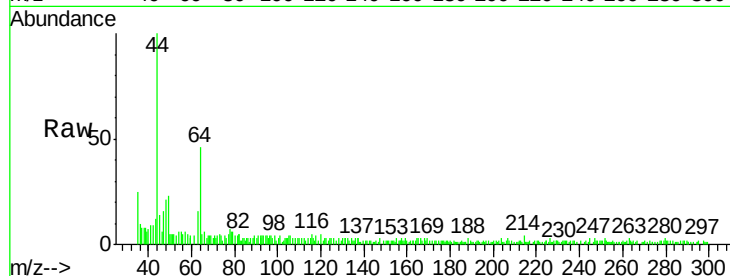
C0B39

Tgt Ion: 64 Resp: 7020

Ion Ratio Lower Upper

64 100

66 0.0 23.4 35.2#



#10

Methyl Iodide

Concen: 2.640 ug/l

RT: 2.49 min Scan# 263

Delta R.T. -0.01 min

Lab File: VX014227.D

Acq: 24 Dec 2019 02:04

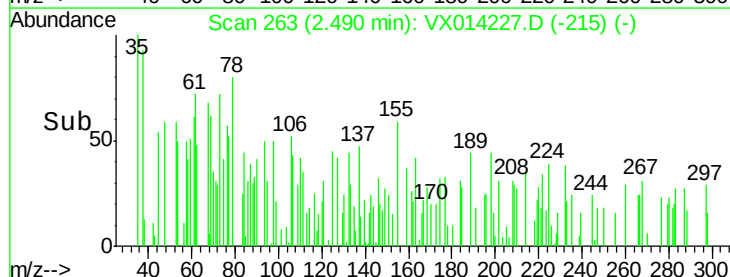
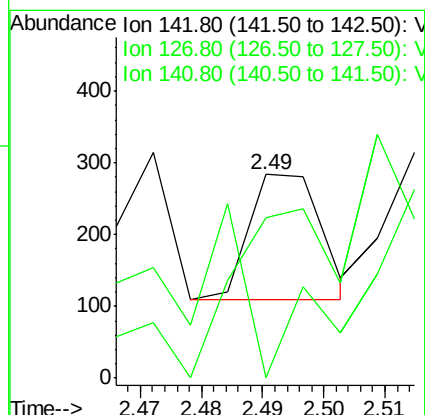
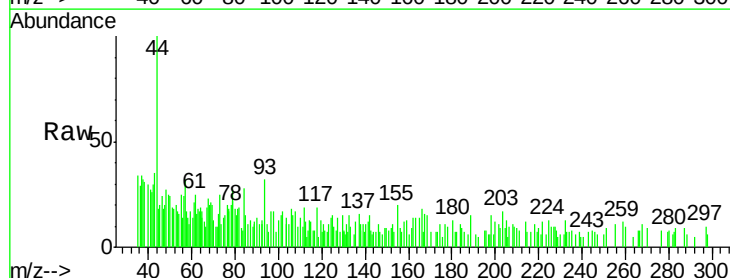
Tgt Ion: 142 Resp: 141

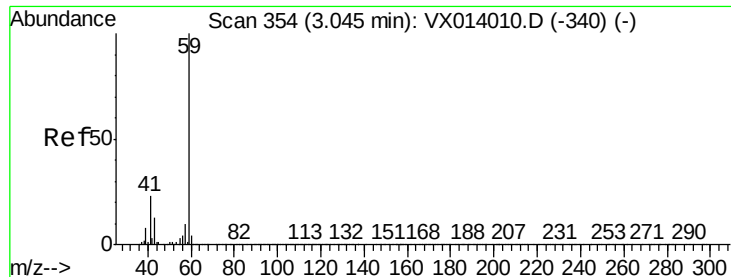
Ion Ratio Lower Upper

142 100

127 0.0 31.6 47.4#

141 0.0 11.6 17.4#



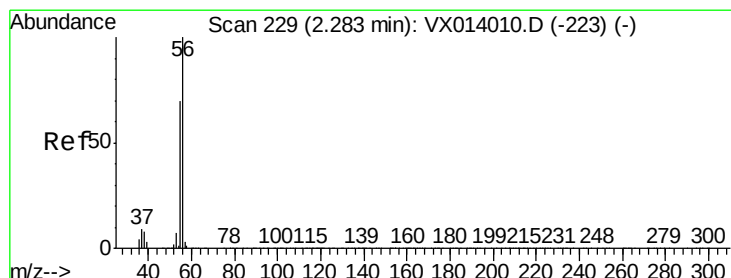
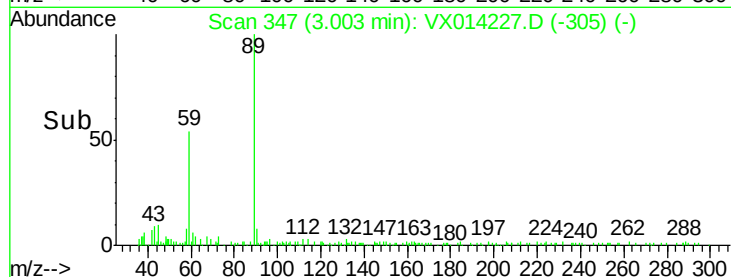
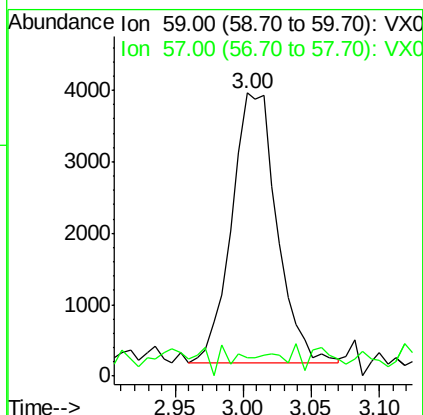
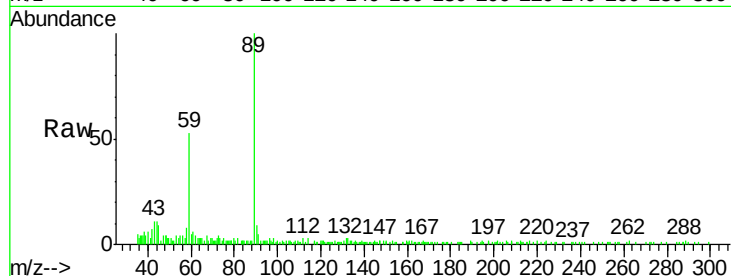


#11

Tert butyl alcohol  
 Concen: 6.474 ug/l  
 RT: 3.00 min Scan# 347  
 Delta R.T. -0.04 min  
 Lab File: VX014227.D  
 Acq: 24 Dec 2019 02:04

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 C0B39

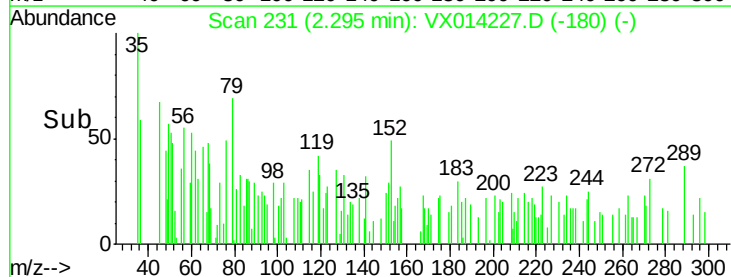
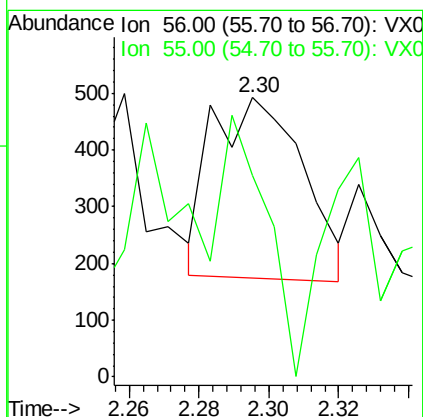
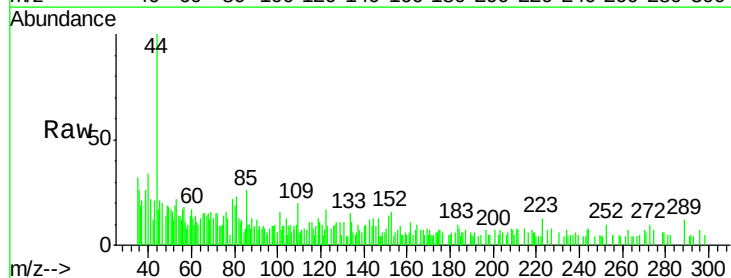
Tgt Ion: 59 Resp: 8759  
 Ion Ratio Lower Upper  
 59 100  
 57 4.9 8.4 12.6#

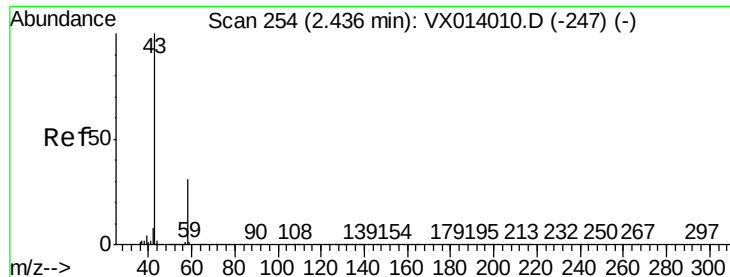


#13

Acrolein  
 Concen: 0.741 ug/l  
 RT: 2.30 min Scan# 231  
 Delta R.T. 0.01 min  
 Lab File: VX014227.D  
 Acq: 24 Dec 2019 02:04

Tgt Ion: 56 Resp: 574  
 Ion Ratio Lower Upper  
 56 100  
 55 69.0 56.9 85.3





#16

Acetone

Concen: 2.310 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014227.D

Acq: 24 Dec 2019 02:04

Instrument :

MSVOA\_X

ClientSampled :

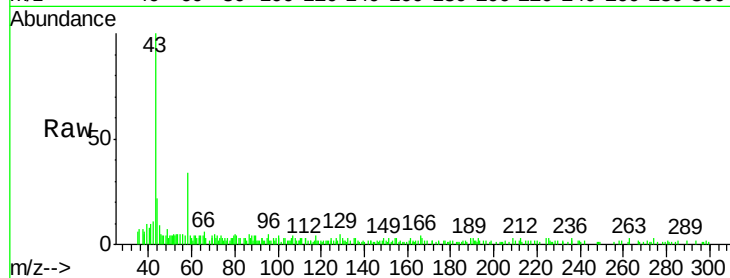
C0B39

Tgt Ion: 43 Resp: 9390

Ion Ratio Lower Upper

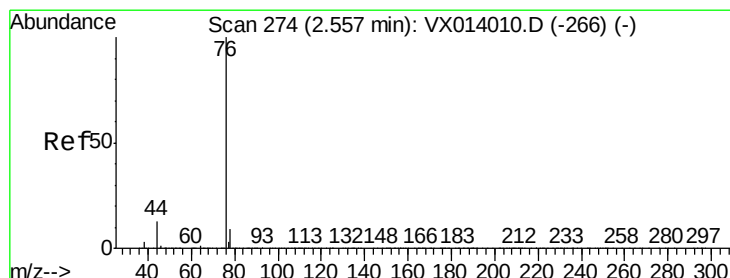
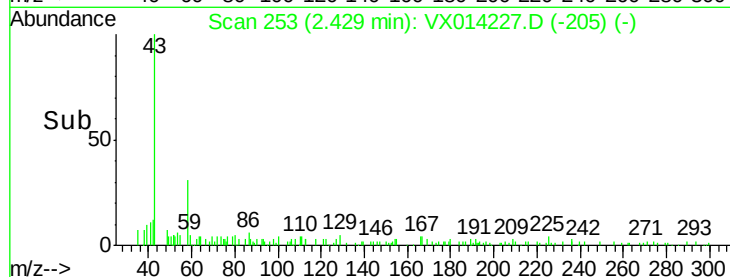
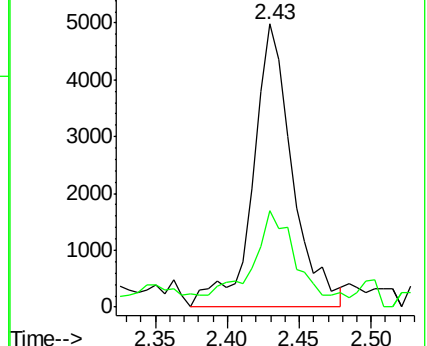
43 100

58 29.1 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#17

Carbon Disulfide

Concen: 0.834 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014227.D

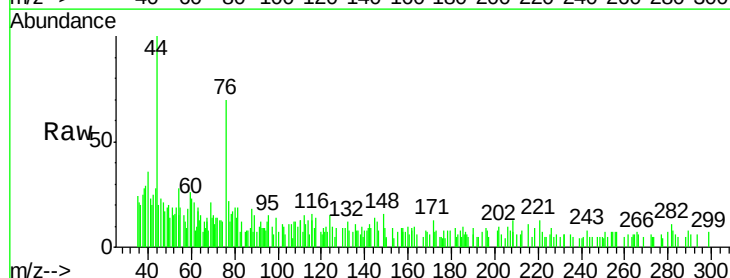
Acq: 24 Dec 2019 02:04

Tgt Ion: 76 Resp: 1253

Ion Ratio Lower Upper

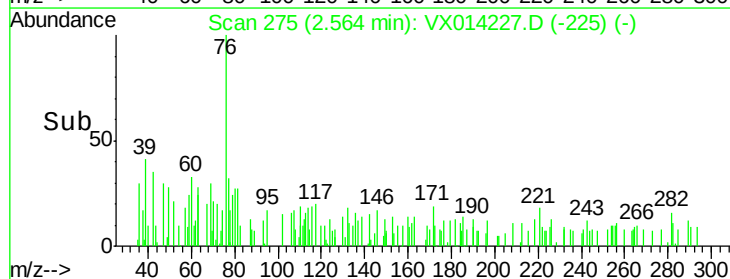
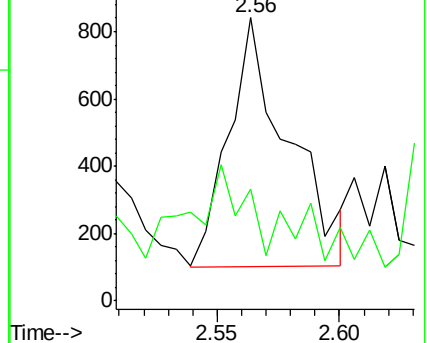
76 100

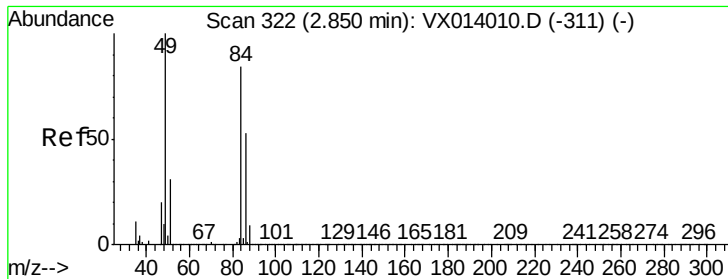
78 15.6 7.2 10.8#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

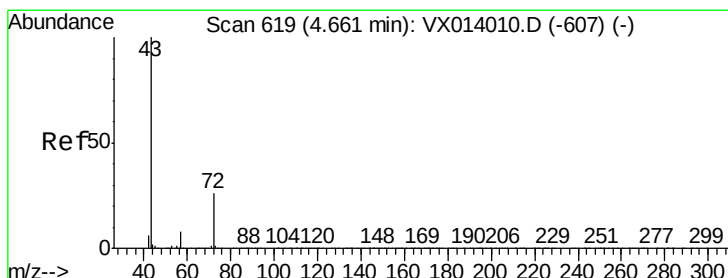
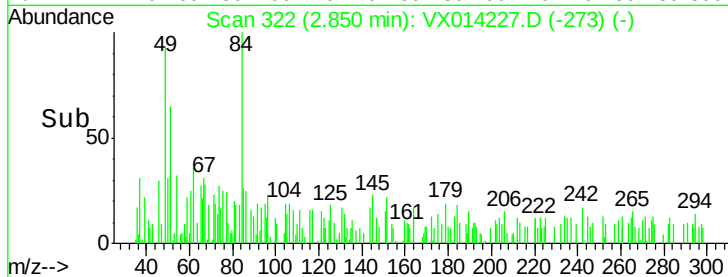
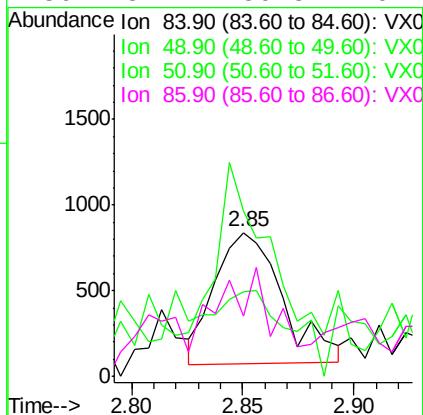
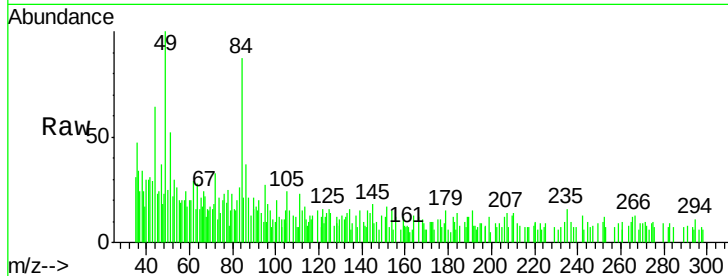




#20  
Methylene Chloride  
Concen: 0.256 ug/l  
RT: 2.85 min Scan# 322  
Delta R.T. 0.00 min  
Lab File: VX014227.D  
Acq: 24 Dec 2019 02:04

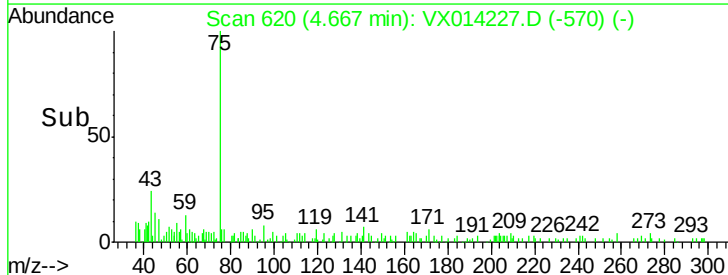
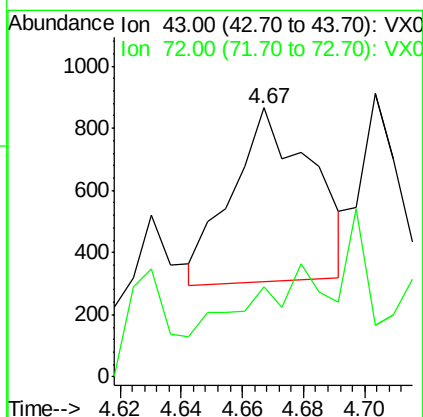
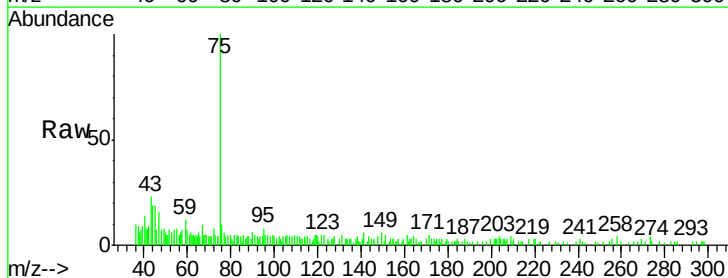
Instrument :  
MSVOA\_X  
ClientSampleId :  
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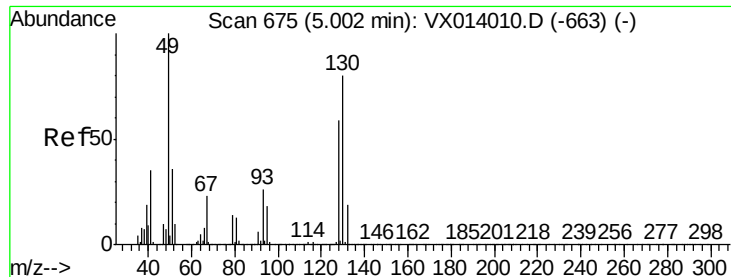
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 1637  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 107.1 | 95.8  | 143.6 |
| 51       | 26.1  | 29.8  | 44.8# |
| 86       | 32.2  | 50.8  | 76.2# |



#25  
2-Butanone  
Concen: 0.202 ug/l  
RT: 4.67 min Scan# 620  
Delta R.T. 0.01 min  
Lab File: VX014227.D  
Acq: 24 Dec 2019 02:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1012  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 66.2  | 21.0  | 31.4# |





#28

Bromochloromethane

Concen: 0.745 ug/l

RT: 5.01 min Scan# 676

Delta R.T. 0.01 min

Lab File: VX014227.D

Acq: 24 Dec 2019 02:04

Instrument :

MSVOA\_X

ClientSampleId :

C0B39

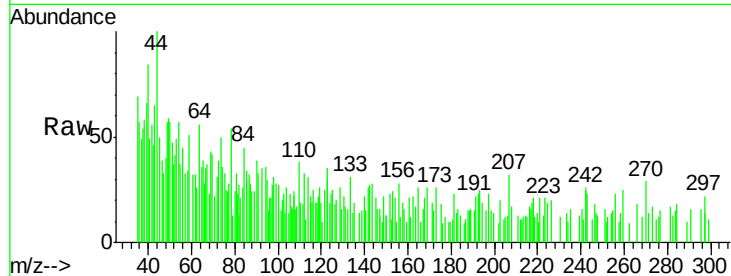
Tgt Ion: 49 Resp: 1189

Ion Ratio Lower Upper

49 100

129 26.8 0.0 5.0#

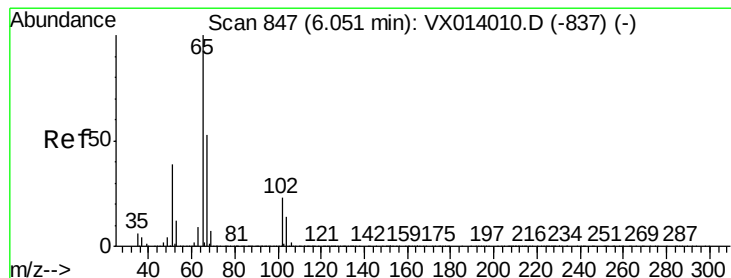
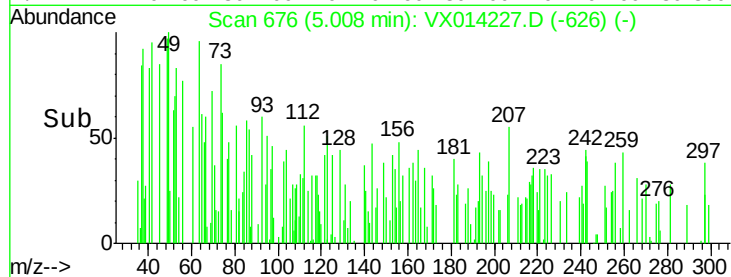
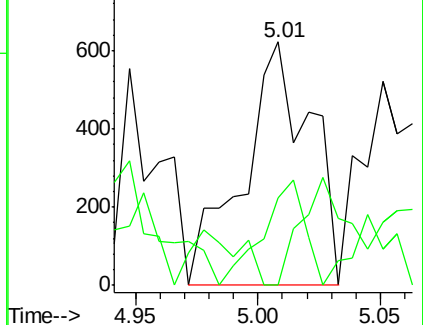
130 31.5 64.6 97.0#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#33

1,2-Dichloroethane-d4

Concen: 49.147 ug/l

RT: 6.05 min Scan# 847

Delta R.T. 0.00 min

Lab File: VX014227.D

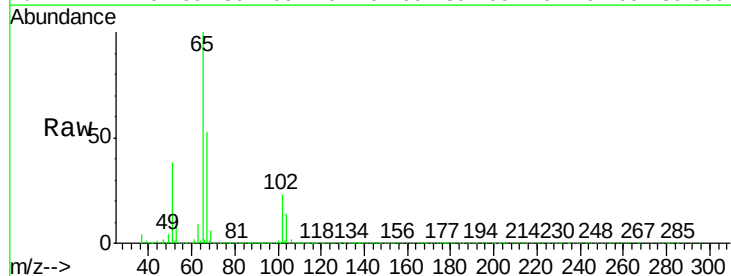
Acq: 24 Dec 2019 02:04

Tgt Ion: 65 Resp: 307733

Ion Ratio Lower Upper

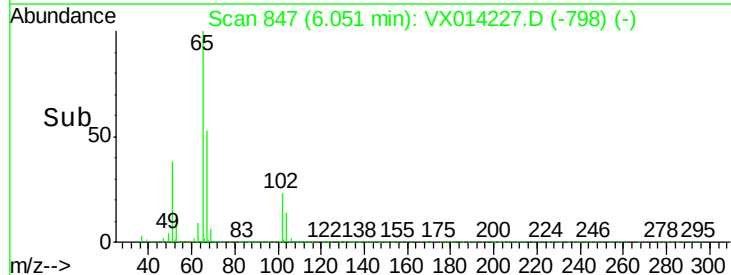
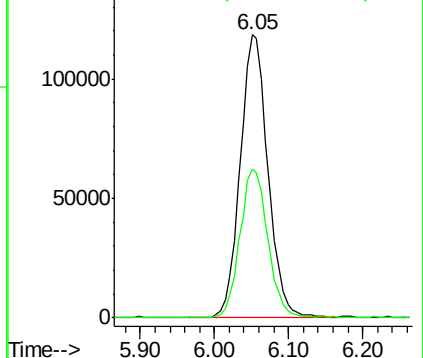
65 100

67 53.2 0.0 106.4

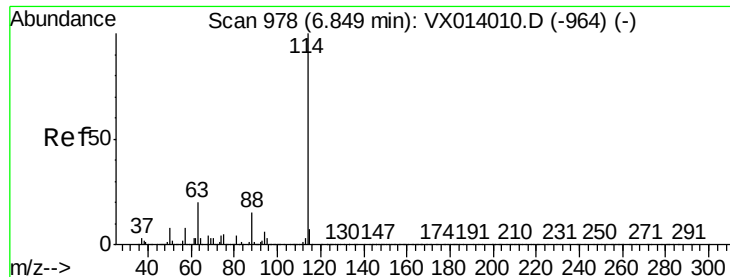


Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0







#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014227.D

Acq: 24 Dec 2019 02:04

Instrument :

MSVOA\_X

ClientSampleId :

C0B39

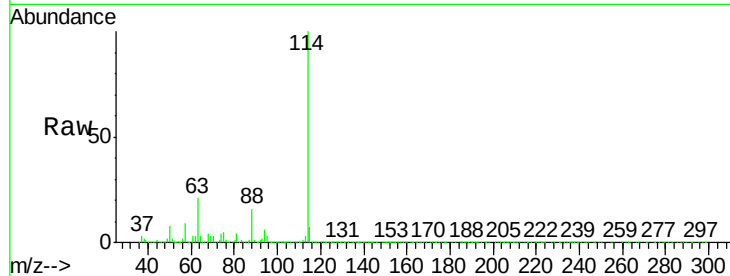
Tgt Ion:114 Resp: 845621

Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.8

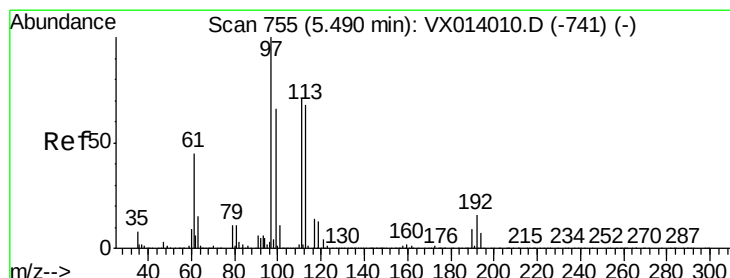
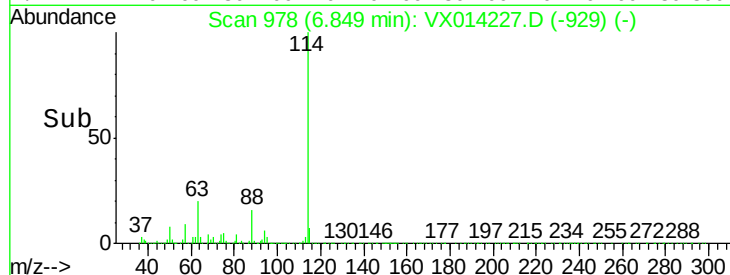
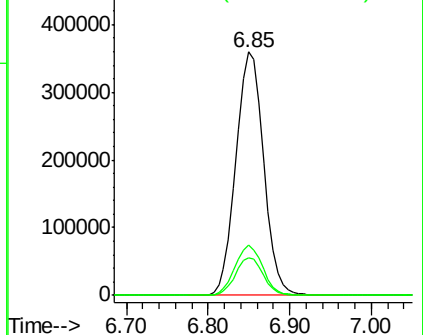
88 15.6 0.0 30.4



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: 49.092 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014227.D

Acq: 24 Dec 2019 02:04

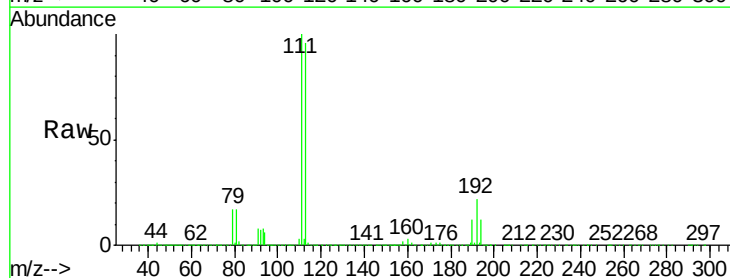
Tgt Ion:113 Resp: 252355

Ion Ratio Lower Upper

113 100

111 102.4 82.0 123.0

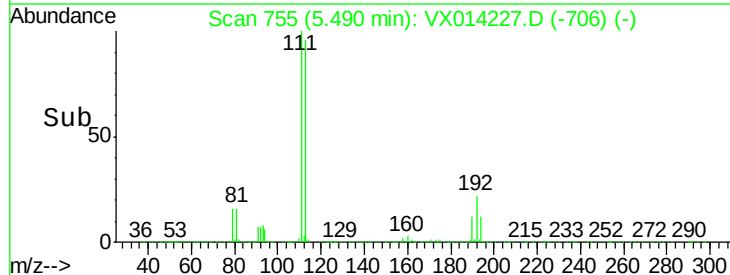
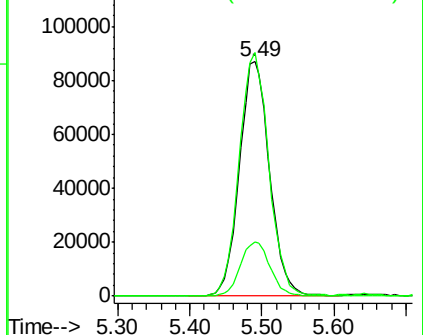
192 23.0 19.3 28.9

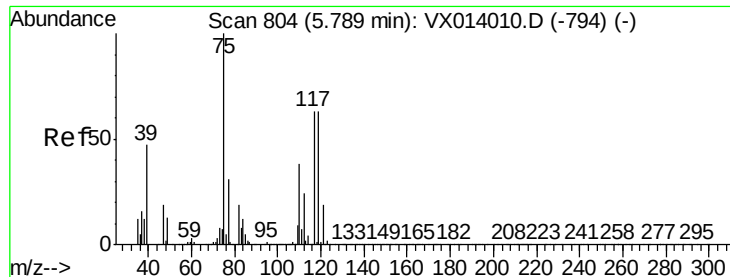


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.642 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX014227.D

Acq: 24 Dec 2019 02:04

Instrument :

MSVOA\_X

ClientSampled :

C0B39

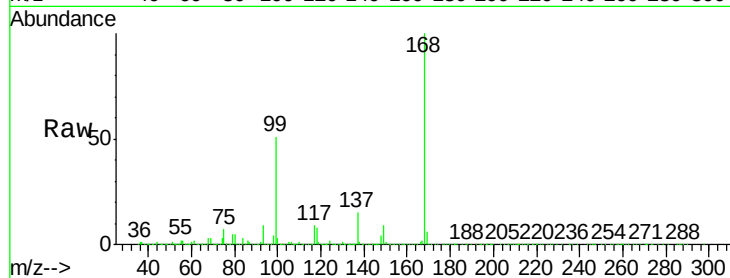
Tgt Ion: 75 Resp: 36018

Ion Ratio Lower Upper

75 100

110 11.2 18.3 54.9#

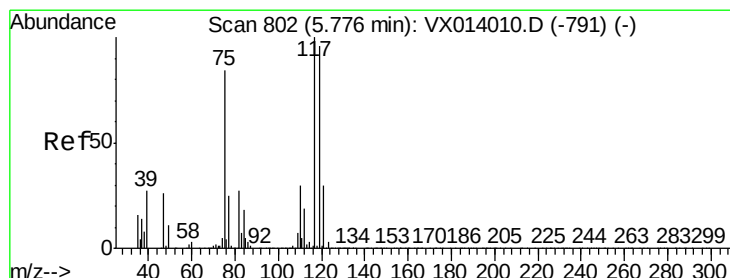
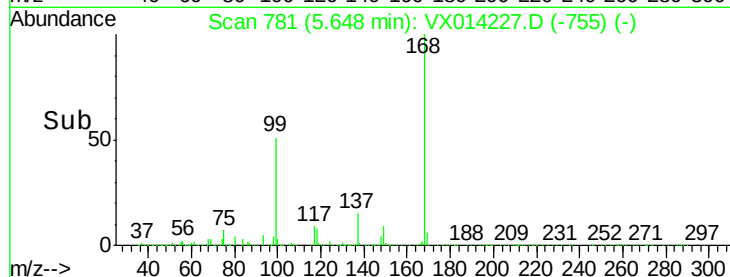
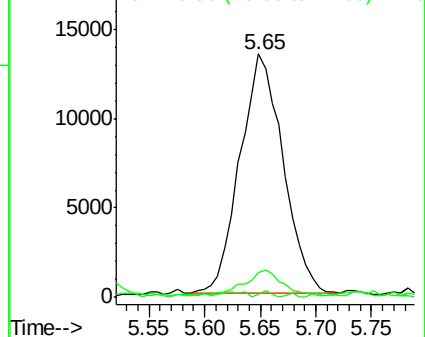
77 0.7 24.8 37.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 6.933 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX014227.D

Acq: 24 Dec 2019 02:04

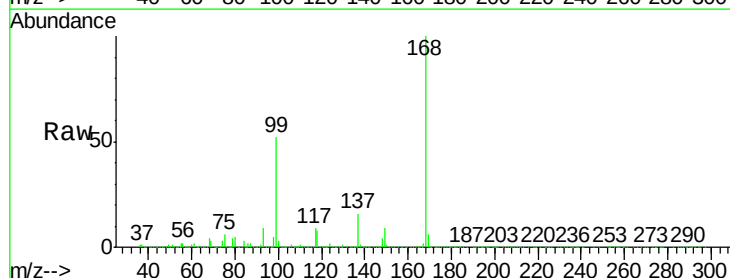
Tgt Ion: 117 Resp: 49007

Ion Ratio Lower Upper

117 100

119 3.5 76.2 114.4#

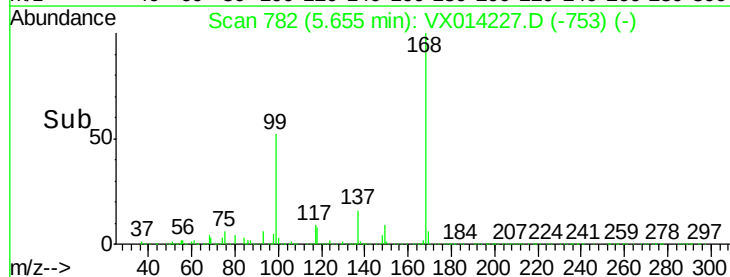
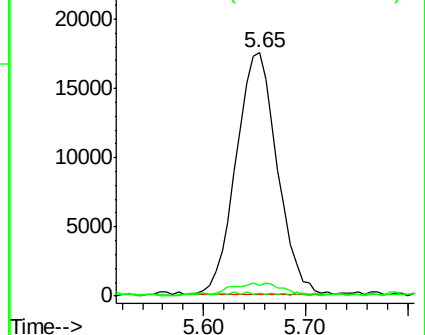
121 0.6 23.6 35.4#

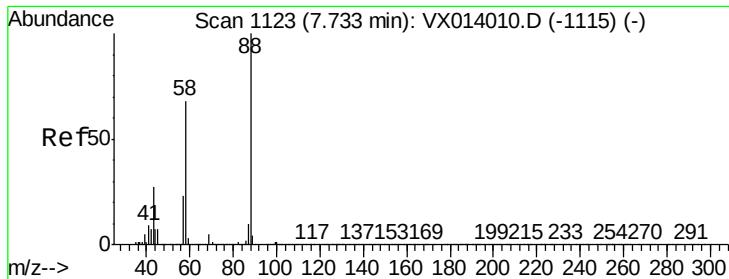


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: 2.250 ug/l

RT: 7.75 min Scan# 1125

Delta R.T. 0.01 min

Lab File: VX014227.D

Acq: 24 Dec 2019 02:04

Instrument :

MSVOA\_X

ClientSampleId :

C0B39

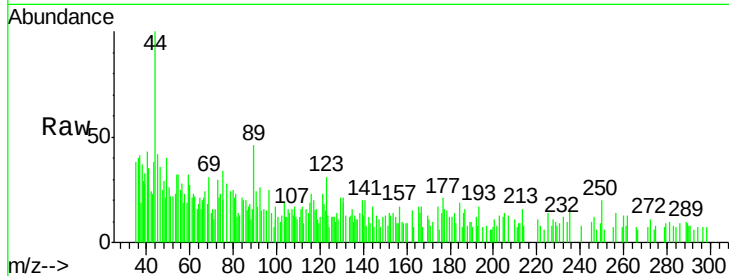
Tgt Ion: 88 Resp: 318

Ion Ratio Lower Upper

88 100

43 0.0 26.5 39.7#

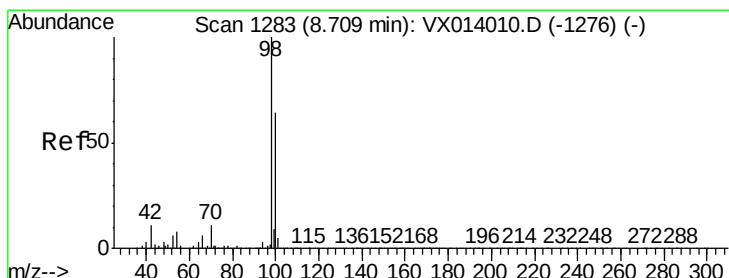
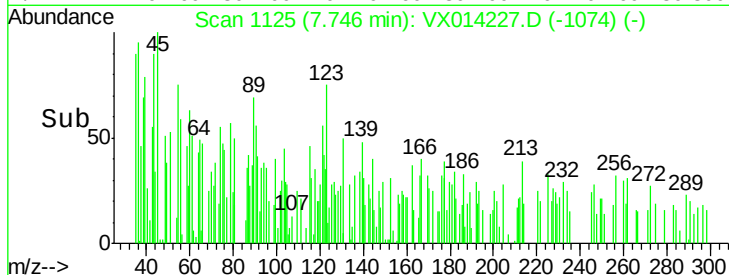
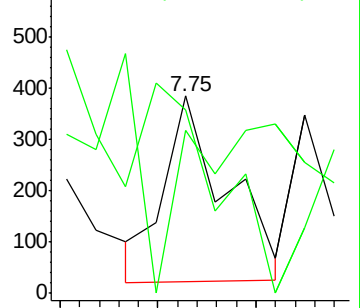
58 133.3 56.8 85.2#



Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 50.614 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014227.D

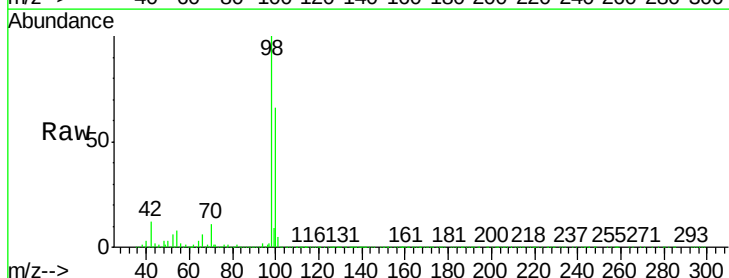
Acq: 24 Dec 2019 02:04

Tgt Ion: 98 Resp: 1012944

Ion Ratio Lower Upper

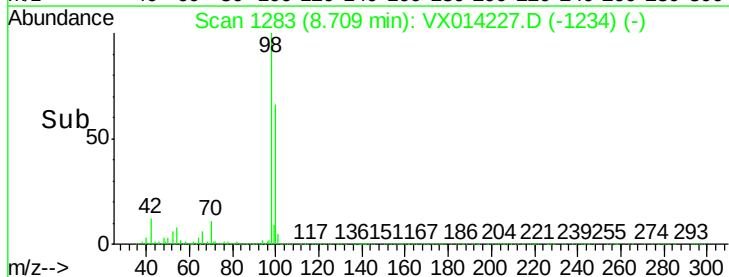
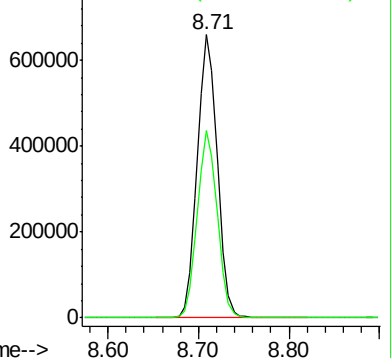
98 100

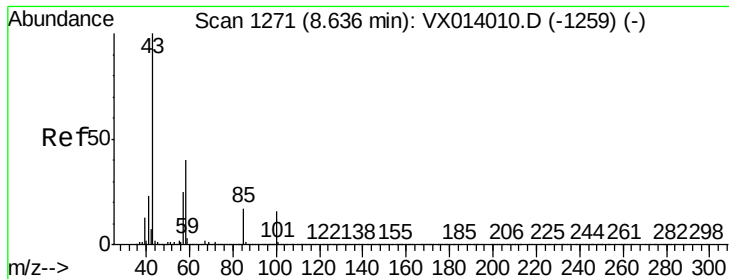
100 65.6 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

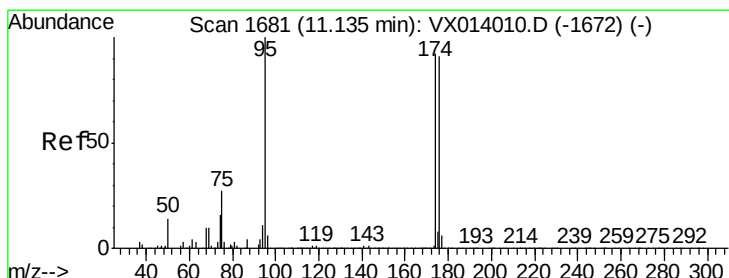
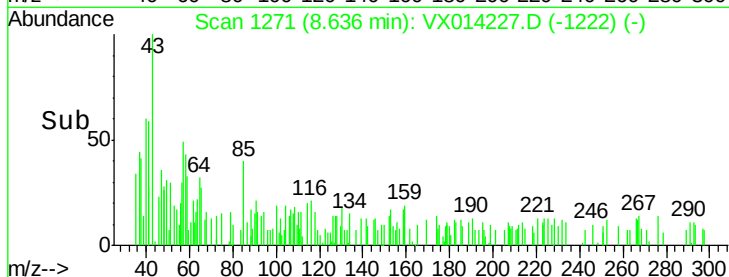
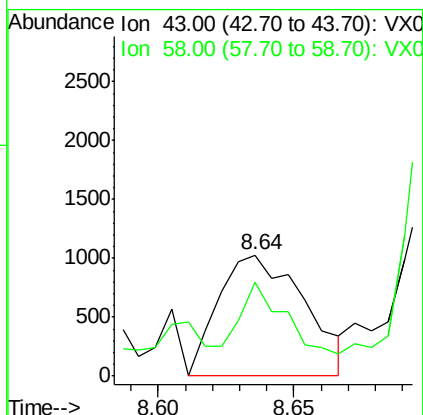
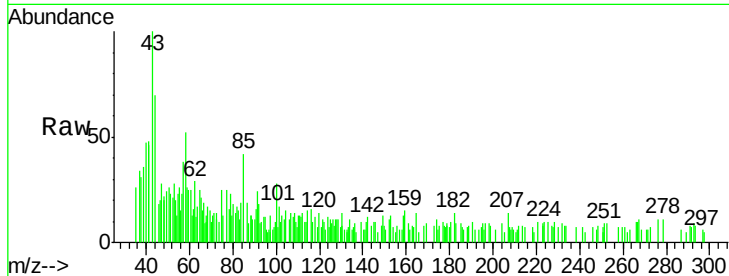




#51  
 4-Methyl-2-Pentanone  
 Concen: 0.253 ug/l  
 RT: 8.64 min Scan# 1271  
 Delta R.T. 0.00 min  
 Lab File: VX014227.D  
 Acq: 24 Dec 2019 02:04

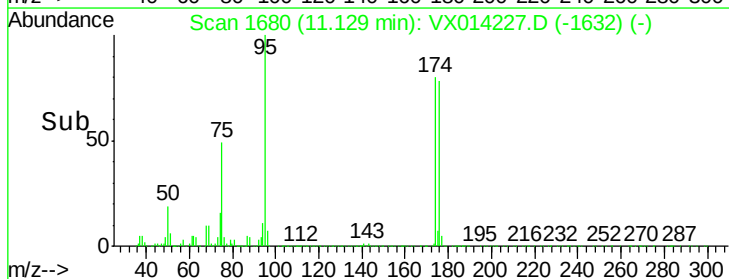
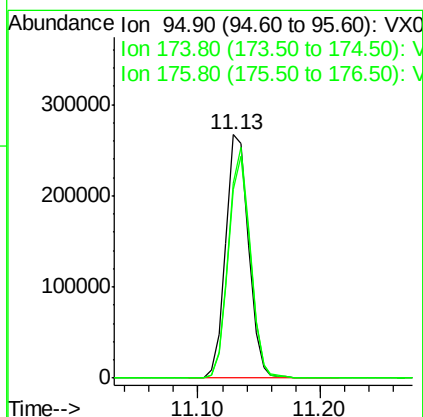
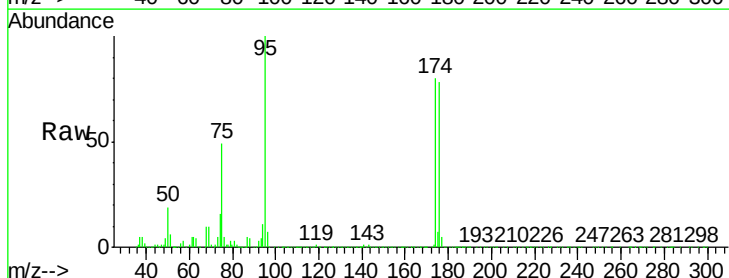
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 C0B39

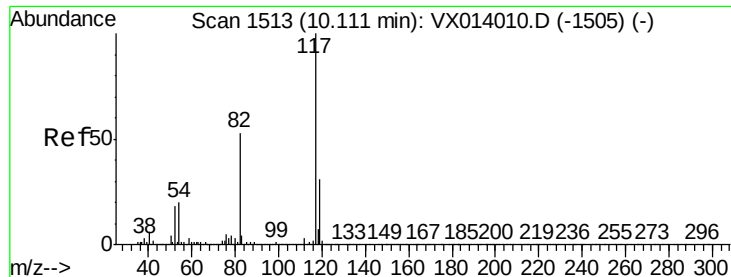
Tgt Ion: 43 Resp: 2257  
 Ion Ratio Lower Upper  
 43 100  
 58 29.2 32.2 48.2#



#62  
 4-Bromofluorobenzene  
 Concen: 47.215 ug/l  
 RT: 11.13 min Scan# 1680  
 Delta R.T. -0.01 min  
 Lab File: VX014227.D  
 Acq: 24 Dec 2019 02:04

Tgt Ion: 95 Resp: 345408  
 Ion Ratio Lower Upper  
 95 100  
 174 90.7 0.0 175.8  
 176 87.4 0.0 173.0

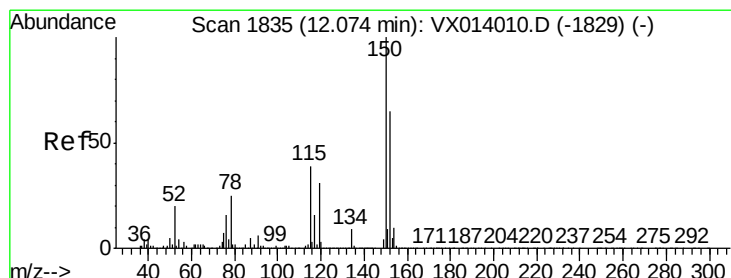
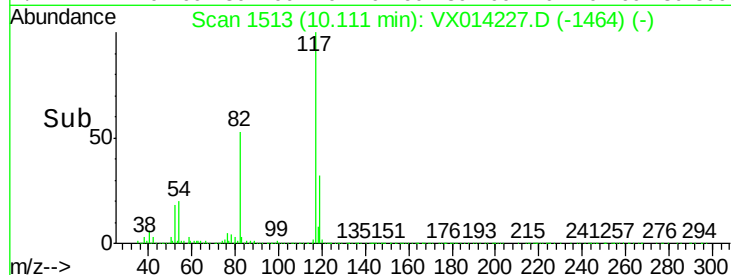
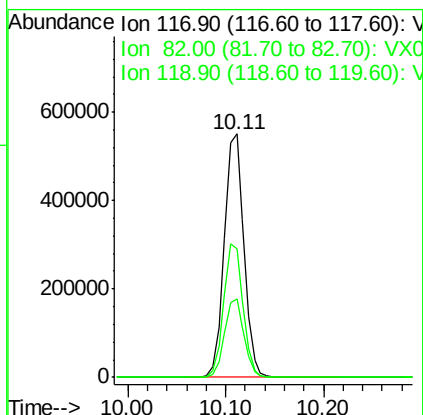
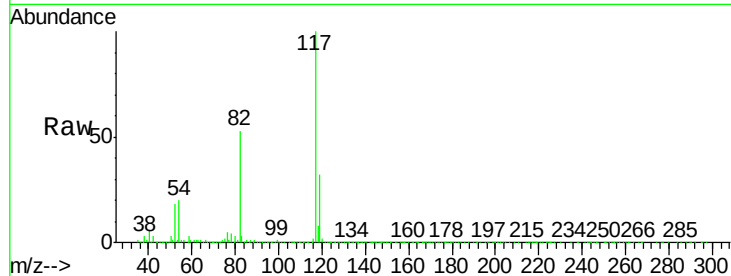




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. 0.00 min  
Lab File: VX014227.D  
Acq: 24 Dec 2019 02:04

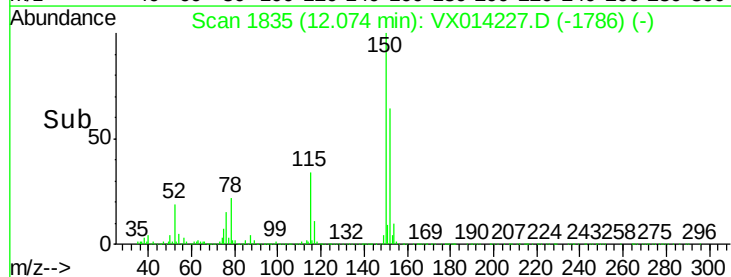
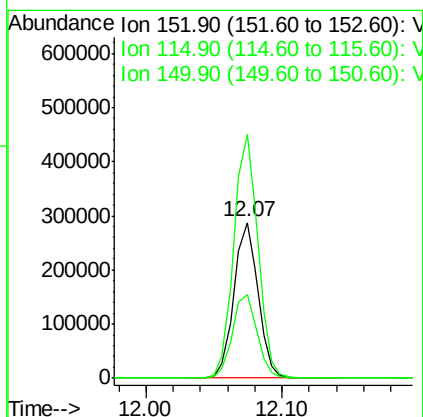
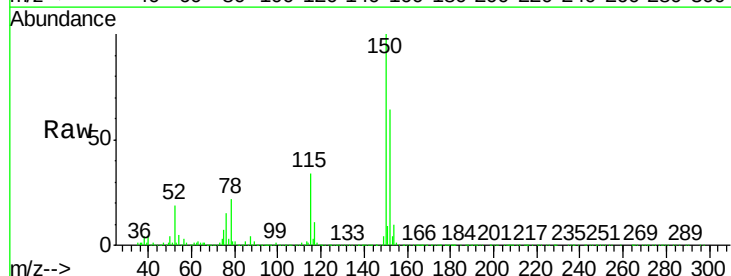
Instrument :  
MSVOA\_X  
ClientSampleId :  
C0B39

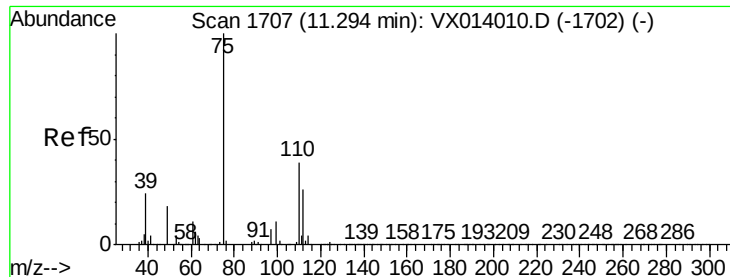
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 52.8  | 42.2  | 63.4  |
| 119     | 32.2  | 25.1  | 37.7  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. 0.00 min  
Lab File: VX014227.D  
Acq: 24 Dec 2019 02:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 55.2  | 38.3  | 114.9 |
| 150     | 156.8 | 0.0   | 345.4 |





#76

1,2,3-Trichloropropane

Concen: 21.921 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014227.D

Acq: 24 Dec 2019 02:04

Instrument :

MSVOA\_X

ClientSampleId :

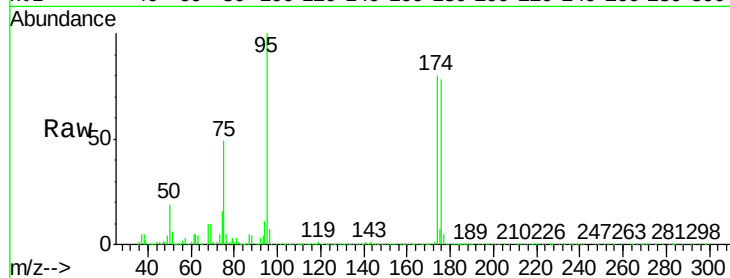
C0B39

Tgt Ion: 75 Resp: 168411

Ion Ratio Lower Upper

75 100

77 1.4 19.3 57.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

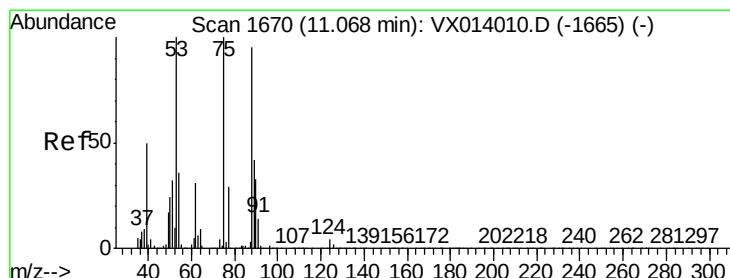
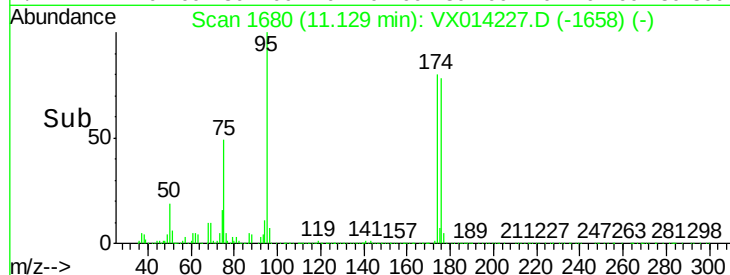
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 61.872 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014227.D

Acq: 24 Dec 2019 02:04

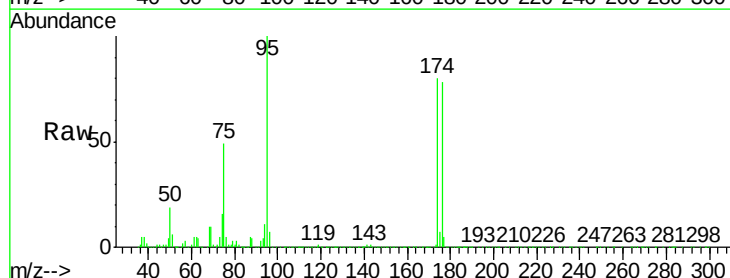
Tgt Ion: 75 Resp: 168411

Ion Ratio Lower Upper

75 100

53 0.2 76.7 115.1#

89 0.0 34.6 51.8#



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

11.13

150000

100000

50000

0

Time-->

