

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX041620\  
 Data File : VX015702.D  
 Acq On : 16 Apr 2020 11:06  
 Operator : JC/SP  
 Sample : VX0416WBL01  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0416WBL01

Quant Time: Apr 17 06:44:06 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X032720W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 27 09:35:51 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 1108669  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 1697053  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 1583993  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 831066   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.03  | 65   | 653876   | 41.82 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 83.64% |          |
| 35) Dibromofluoromethane    | 5.46  | 113  | 520055   | 47.94 | ug/l   | -0.01    |
| Spiked Amount               |       |      | Recovery | =     | 95.88% |          |
| 50) Toluene-d8              | 8.70  | 98   | 1991283  | 49.86 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.72% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 797175   | 49.11 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.22% |          |

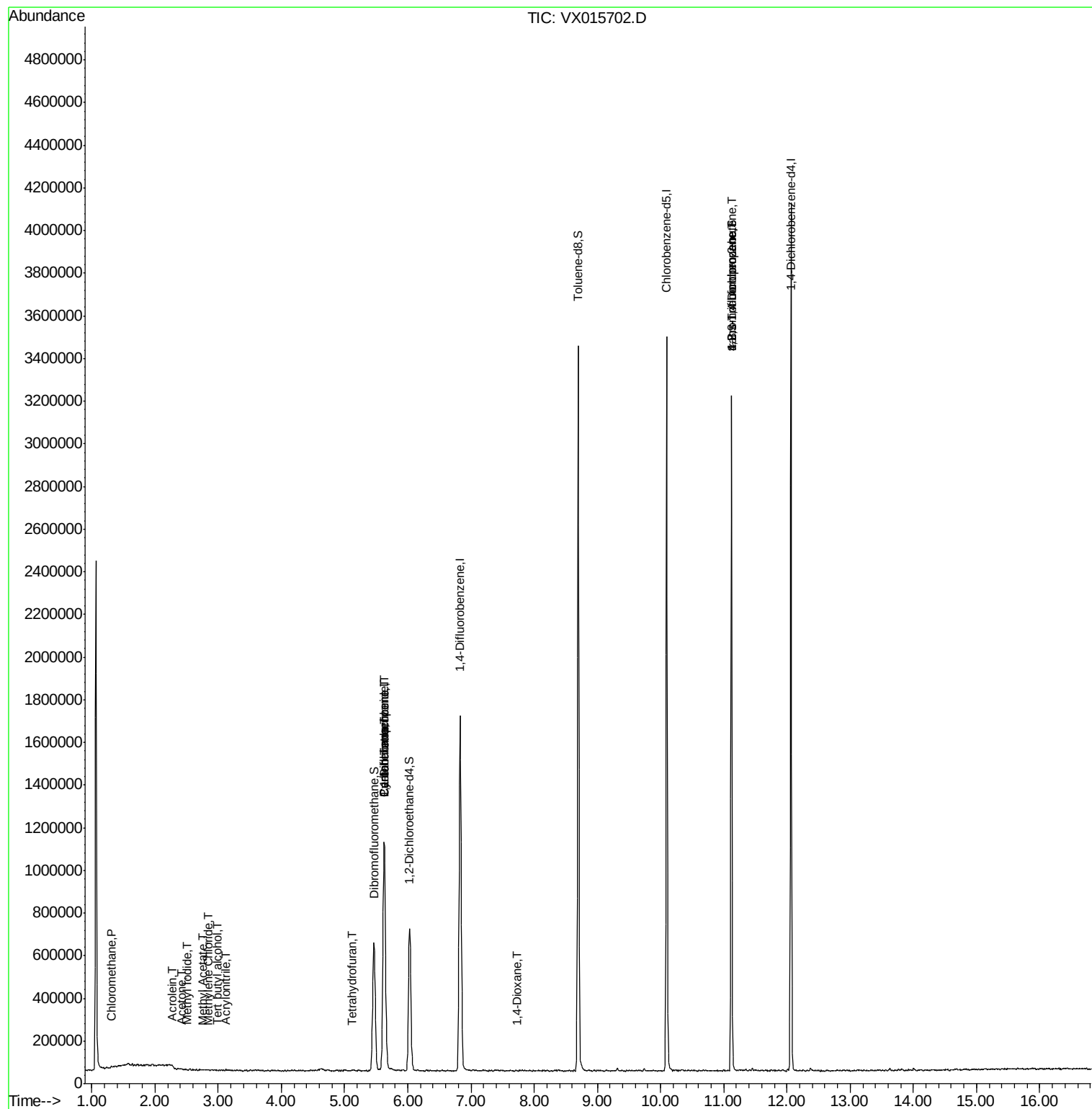
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.31  | 50   | 4269     | 0.343     | ug/l # | 63     |
| 5) Bromomethane                | 1.64  | 94   | 3829     | Below Cal |        | 97     |
| 10) Methyl Iodide              | 2.50  | 142  | 3499     | 0.260     | ug/l # | 84     |
| 11) Tert butyl alcohol         | 2.99  | 59   | 1581     | 0.422     | ug/l # | 81     |
| 13) Acrolein                   | 2.28  | 56   | 2033     | 0.954     | ug/l # | 77     |
| 15) Acrylonitrile              | 3.12  | 53   | 2425     | 0.340     | ug/l   | 94     |
| 16) Acetone                    | 2.42  | 43   | 1405     | 0.209     | ug/l # | 47     |
| 18) Methyl Acetate             | 2.75  | 43   | 3524     | 0.206     | ug/l # | 88     |
| 20) Methylene Chloride         | 2.84  | 84   | 3388     | 0.270     | ug/l # | 57     |
| 29) Tetrahydrofuran            | 5.11  | 42   | 2552     | 0.367     | ug/l # | 44     |
| 31) Cyclohexane                | 5.63  | 56   | 21893    | 1.106     | ug/l # | 11     |
| 36) 1,1-Dichloropropene        | 5.62  | 75   | 76370    | 4.884     | ug/l # | 52     |
| 38) Carbon Tetrachloride       | 5.62  | 117  | 101249   | 5.978     | ug/l # | 15     |
| 49) 1,4-Dioxane                | 7.72  | 88   | 654      | 2.042     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 404338   | 23.659    | ug/l # | 35     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 404338   | 56.769    | ug/l # | 10     |

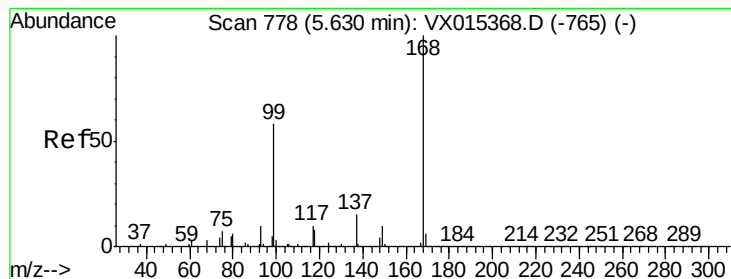
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX041620\  
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Sample : VX0416WBL01  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
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VX0416WBL01

Quant Time: Apr 17 06:44:06 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X032720W.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 27 09:35:51 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 778

Delta R.T. -0.00 min

Lab File: VX015702.D

Acq: 16 Apr 2020 11:06

Instrument :

MSVOA\_X

ClientSampleId :

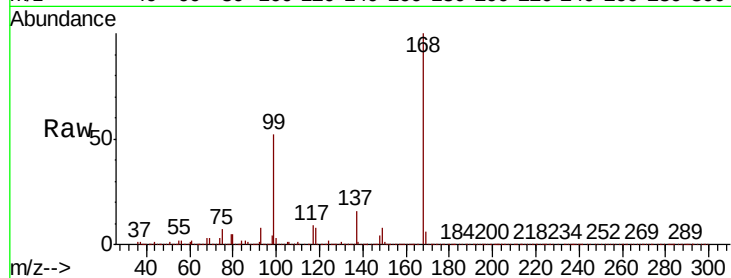
VX0416WBL01

Tot Ion:168 Resp: 1108669

Ion Ratio Lower Upper

168 100

99 51.4 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

400000

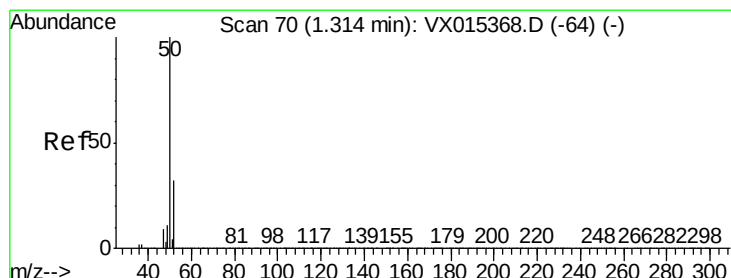
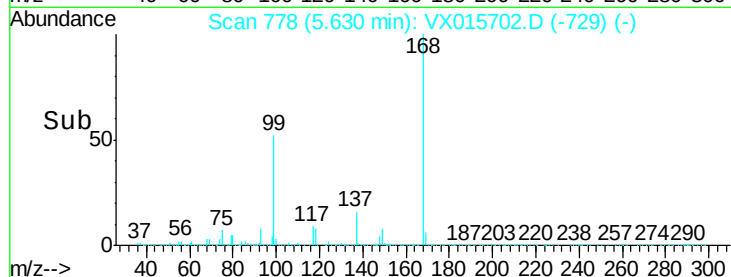
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: 0.343 ug/l

RT: 1.31 min Scan# 70

Delta R.T. -0.00 min

Lab File: VX015702.D

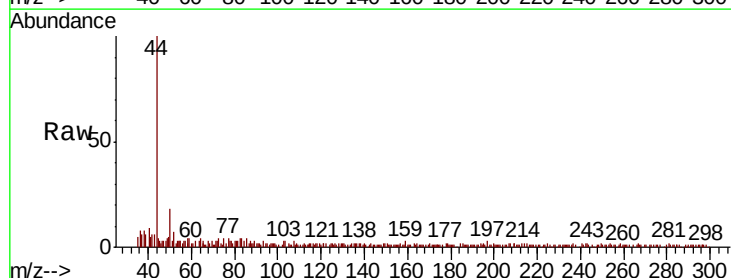
Acq: 16 Apr 2020 11:06

Tgt Ion: 50 Resp: 4269

Ion Ratio Lower Upper

50 100

52 10.8 25.3 37.9#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.31

2500

2000

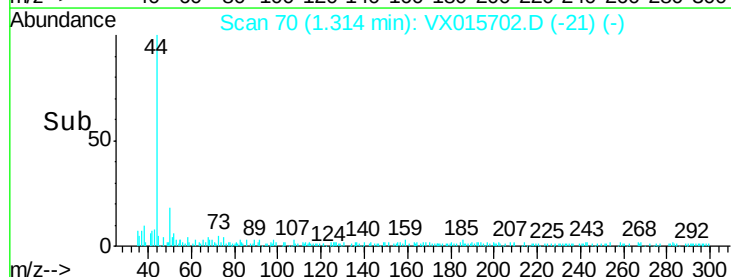
1500

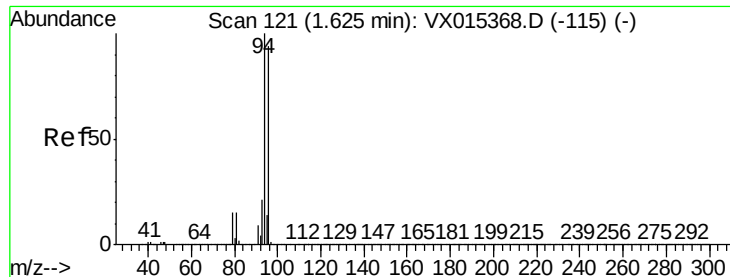
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX015702.D

Acq: 16 Apr 2020 11:06

Instrument :

MSVOA\_X

ClientSampleId :

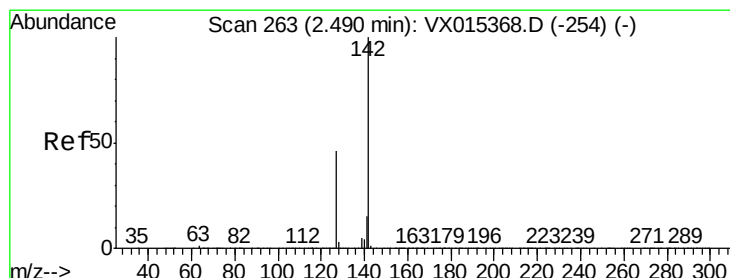
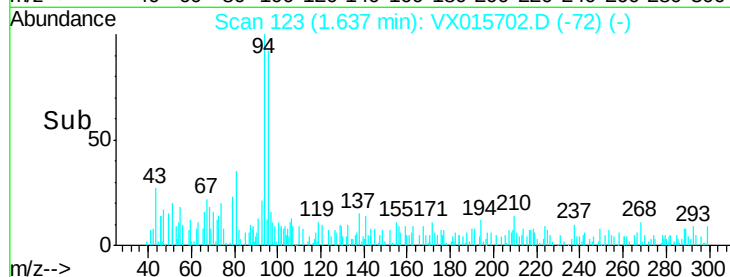
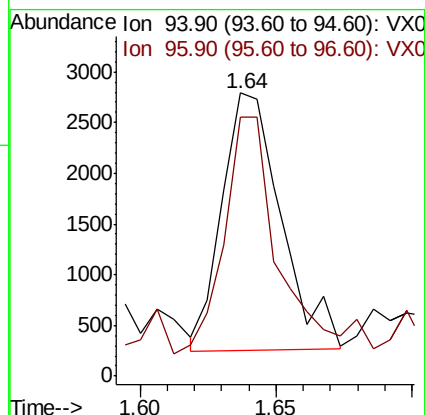
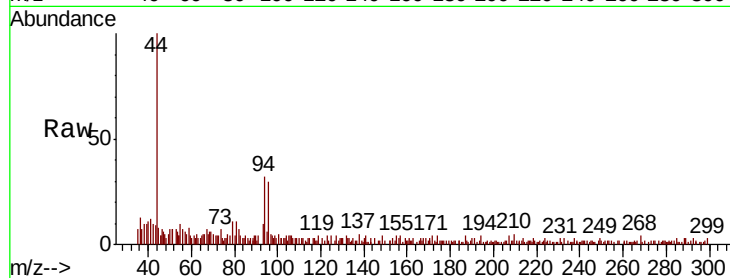
VX0416WBL01

Tot Ion: 94 Resp: 3829

Ion Ratio Lower Upper

94 100

96 90.3 74.8 112.2



#10

Methyl Iodide

Concen: 0.260 ug/l

RT: 2.50 min Scan# 264

Delta R.T. 0.01 min

Lab File: VX015702.D

Acq: 16 Apr 2020 11:06

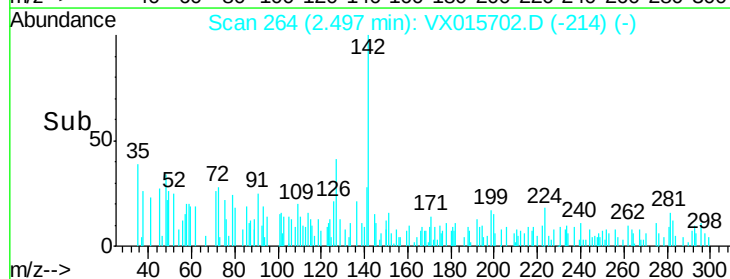
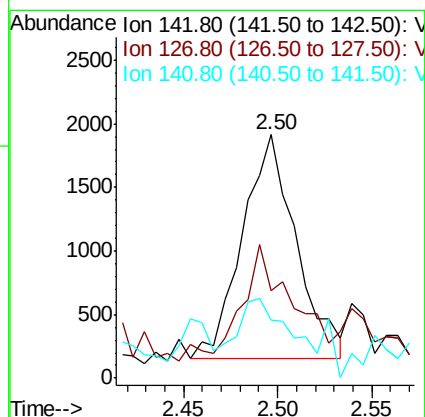
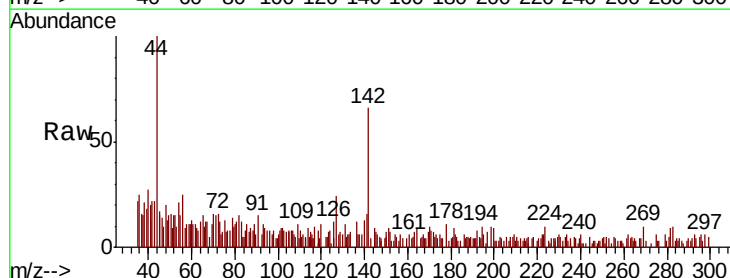
Tgt Ion: 142 Resp: 3499

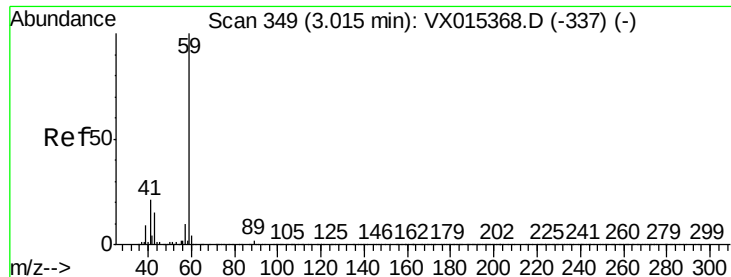
Ion Ratio Lower Upper

142 100

127 50.0 35.9 53.9

141 30.8 11.6 17.4#



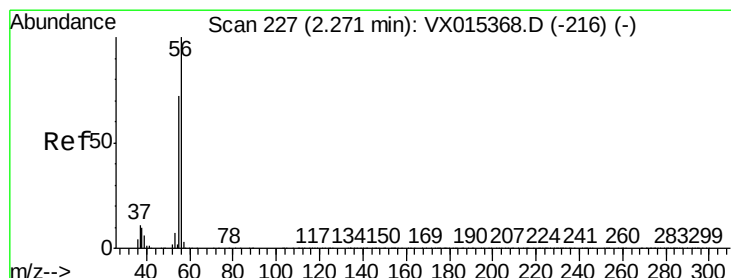
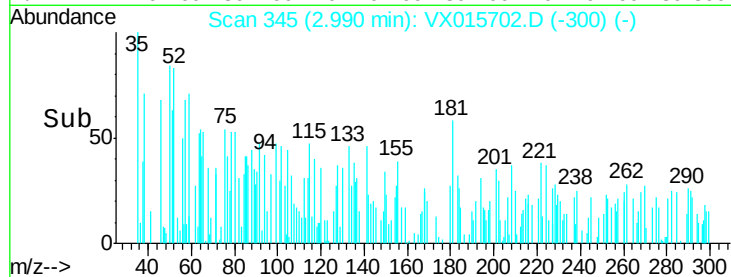
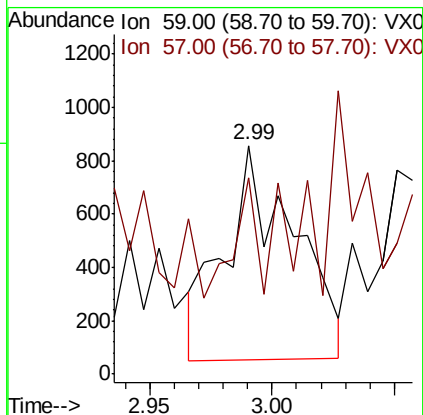
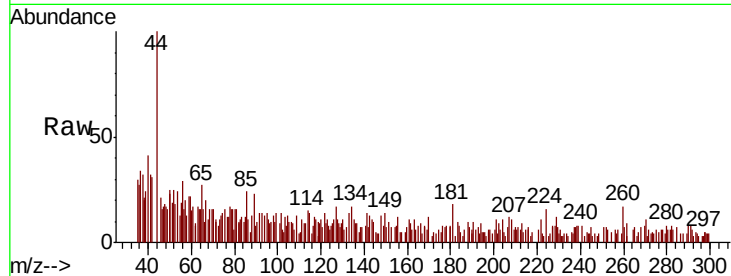


#11

Tert butyl alcohol  
Concen: 0.422 ug/l  
RT: 2.99 min Scan# 345  
Delta R.T. -0.02 min  
Lab File: VX015702.D  
Acq: 16 Apr 2020 11:06

Instrument :  
MSVOA\_X  
ClientSampled :  
VX0416WBL01

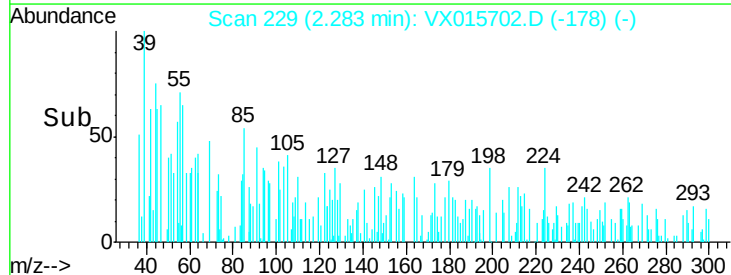
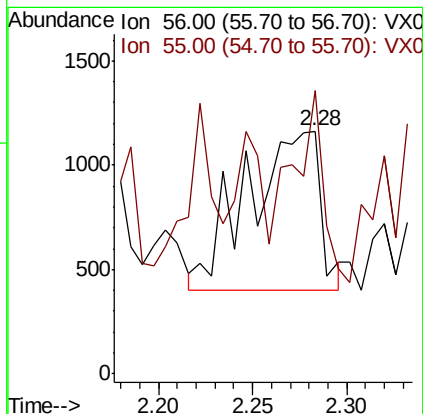
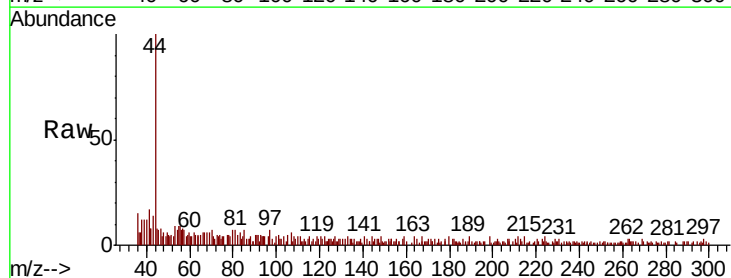
Tot Ion: 59 Resp: 1581  
Ion Ratio Lower Upper  
59 100  
57 17.2 8.1 12.1#

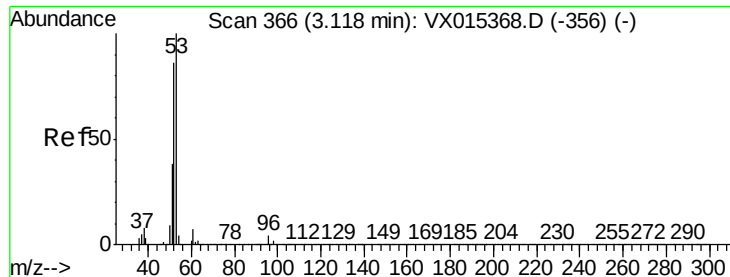


#13

Acrolein  
Concen: 0.954 ug/l  
RT: 2.28 min Scan# 229  
Delta R.T. 0.01 min  
Lab File: VX015702.D  
Acq: 16 Apr 2020 11:06

Tgt Ion: 56 Resp: 2033  
Ion Ratio Lower Upper  
56 100  
55 51.7 57.0 85.4#





#15

Acrylonitrile

Concen: 0.340 ug/l

RT: 3.12 min Scan# 366

Delta R.T. -0.00 min

Lab File: VX015702.D

Acq: 16 Apr 2020 11:06

Instrument :

MSVOA\_X

ClientSampleID :

VX0416WBL01

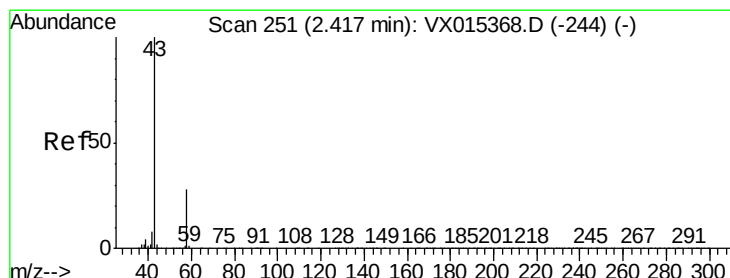
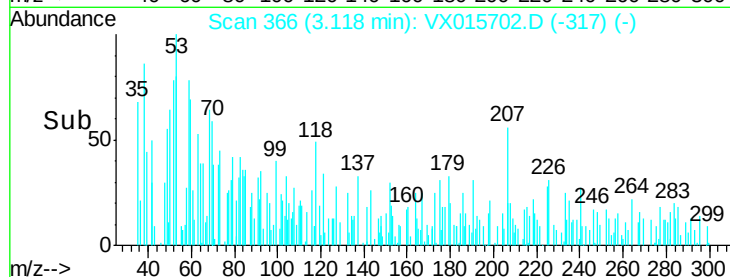
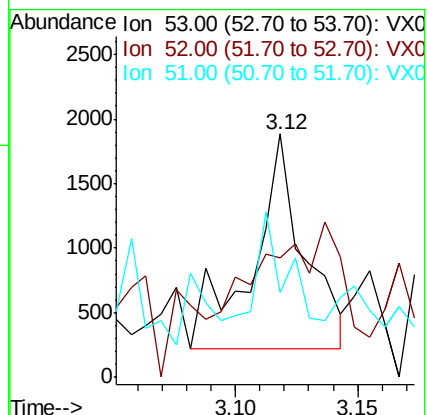
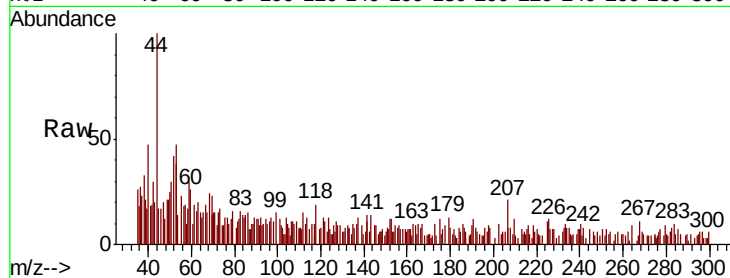
Tot Ion: 53 Resp: 2425

Ion Ratio Lower Upper

53 100

52 78.9 66.8 100.2

51 31.4 29.5 44.3



#16

Acetone

Concen: 0.209 ug/l

RT: 2.42 min Scan# 251

Delta R.T. -0.00 min

Lab File: VX015702.D

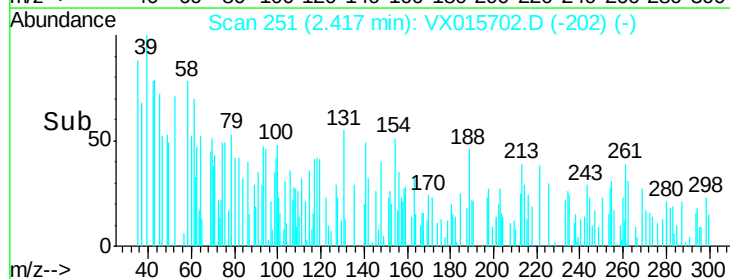
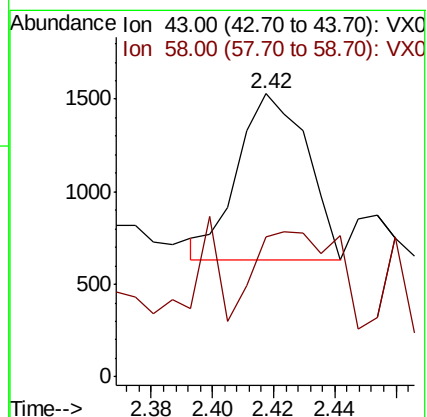
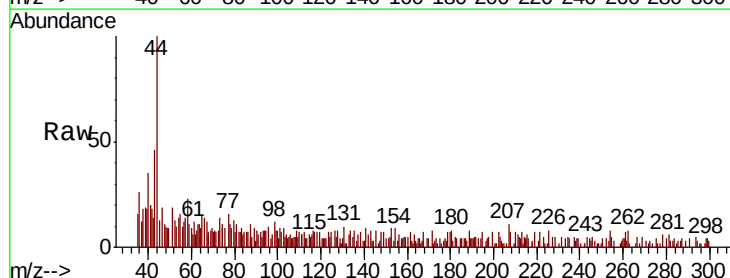
Acq: 16 Apr 2020 11:06

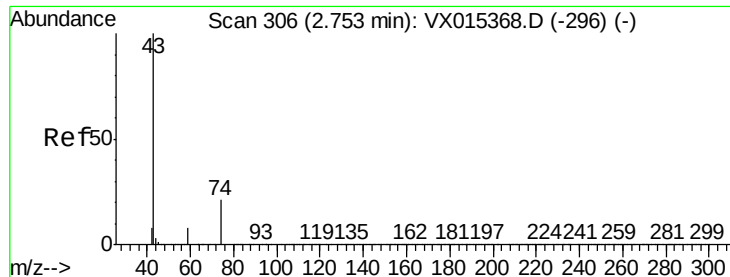
Tgt Ion: 43 Resp: 1405

Ion Ratio Lower Upper

43 100

58 0.0 22.1 33.1#

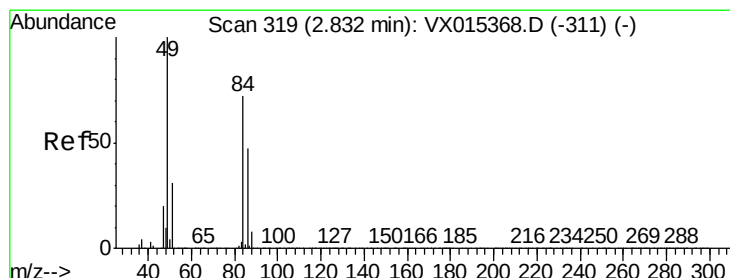
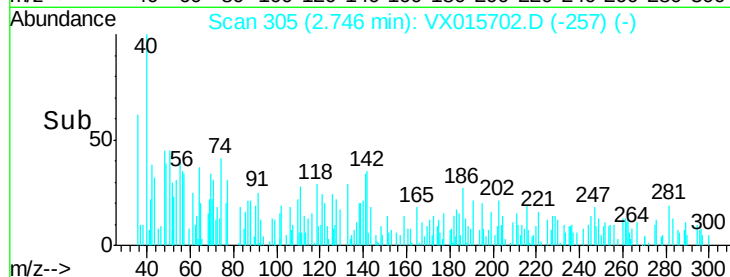
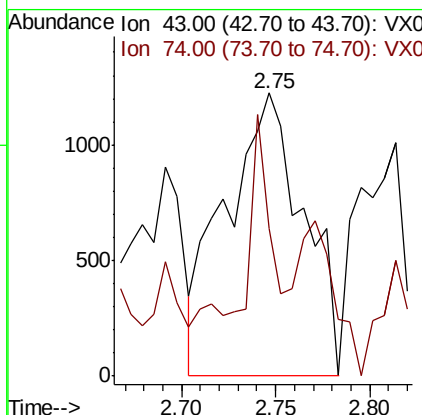
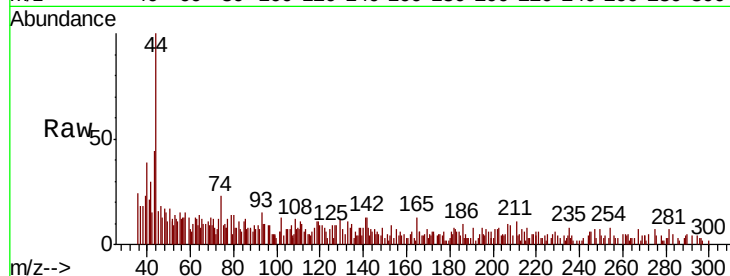




#18  
Methyl Acetate  
Concen: 0.206 ug/l  
RT: 2.75 min Scan# 305  
Delta R.T. -0.01 min  
Lab File: VX015702.D  
Acq: 16 Apr 2020 11:06

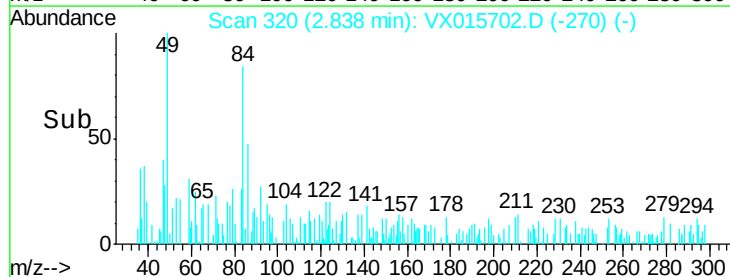
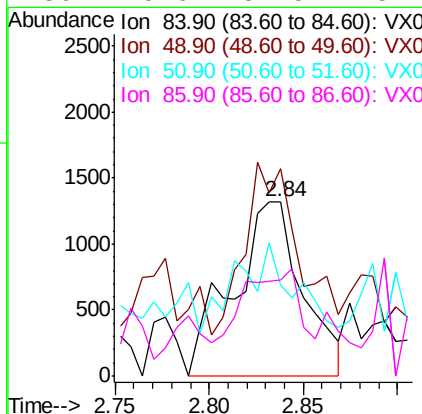
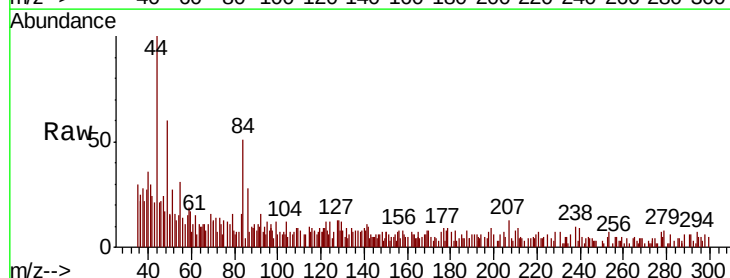
Instrument :  
MSVOA\_X  
ClientSampled :  
VX0416WBL01

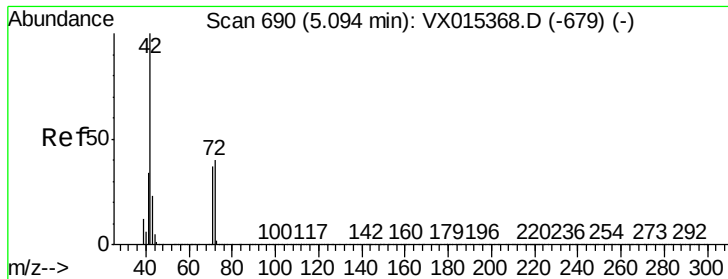
Tot Ion: 43 Resp: 3524  
Ion Ratio Lower Upper  
43 100  
74 15.2 16.5 24.7#



#20  
Methylene Chloride  
Concen: 0.270 ug/l  
RT: 2.84 min Scan# 320  
Delta R.T. 0.01 min  
Lab File: VX015702.D  
Acq: 16 Apr 2020 11:06

Tgt Ion: 84 Resp: 3388  
Ion Ratio Lower Upper  
84 100  
49 83.4 111.3 166.9#  
51 24.0 34.0 51.0#  
86 29.6 52.5 78.7#

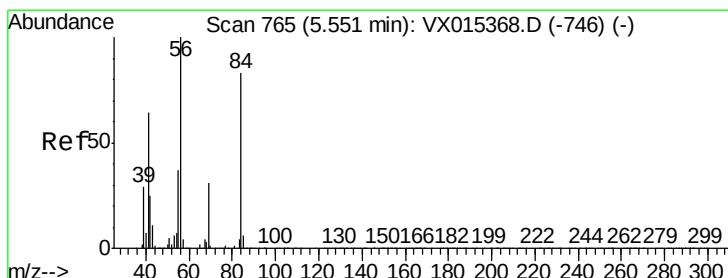
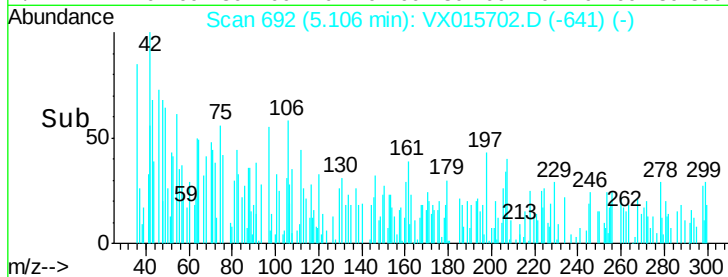
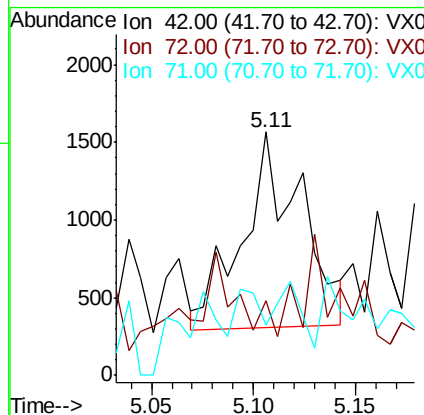
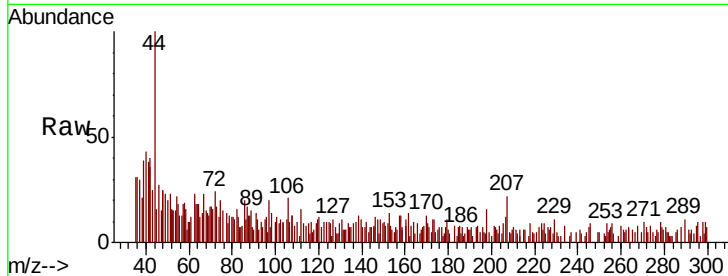




#29  
Tetrahydrofuran  
Concen: 0.367 ug/l  
RT: 5.11 min Scan# 692  
Delta R.T. 0.01 min  
Lab File: VX015702.D  
Acq: 16 Apr 2020 11:06

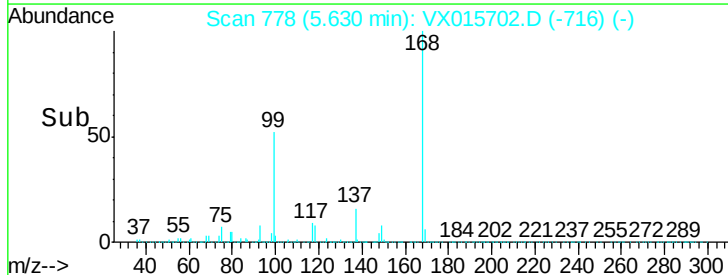
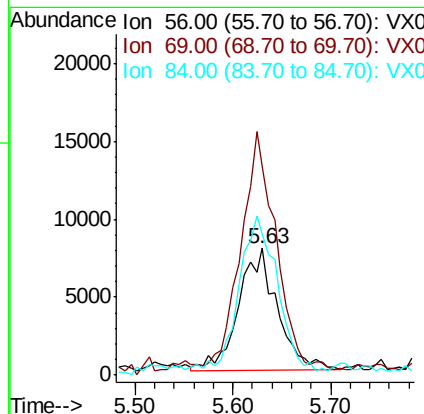
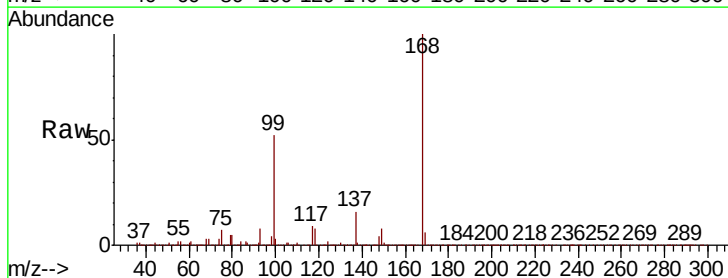
Instrument :  
MSVOA\_X  
ClientSampled :  
VX0416WBL01

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 0.0   | 31.7  | 47.5# |
| 71      | 9.6   | 29.6  | 44.4# |

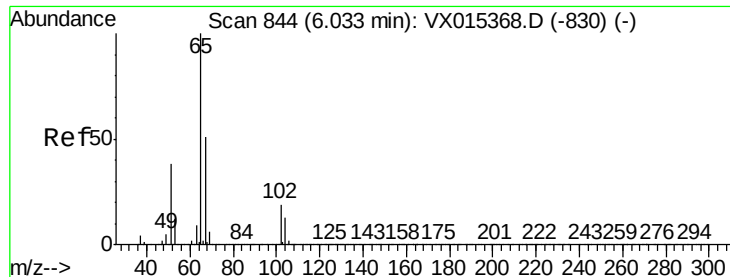


#31  
Cyclohexane  
Concen: 1.106 ug/l  
RT: 5.63 min Scan# 778  
Delta R.T. 0.08 min  
Lab File: VX015702.D  
Acq: 16 Apr 2020 11:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 56      | 100   |       |       |
| 69      | 164.4 | 24.6  | 36.8# |
| 84      | 110.6 | 66.1  | 99.1# |



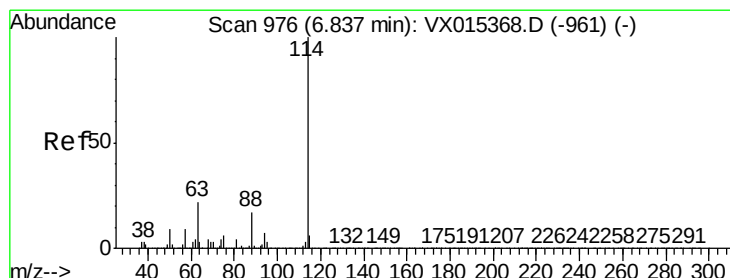
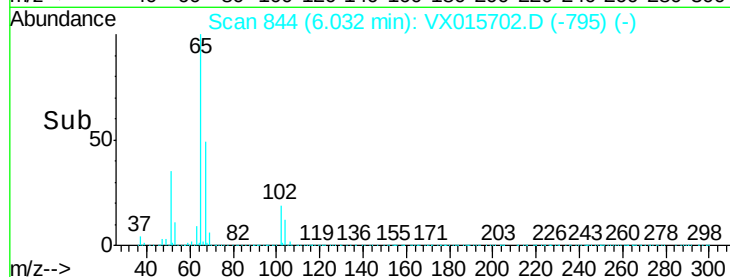
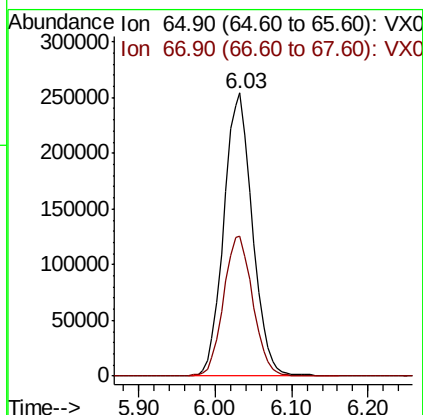
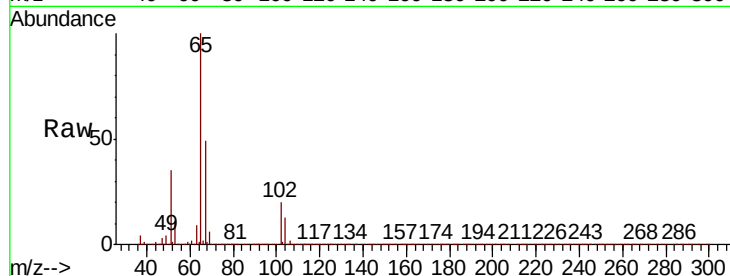




#33  
 1,2-Dichloroethane-d4  
 Concen: 41.817 ug/l  
 RT: 6.03 min Scan# 844  
 Delta R.T. -0.00 min  
 Lab File: VX015702.D  
 Acq: 16 Apr 2020 11:06

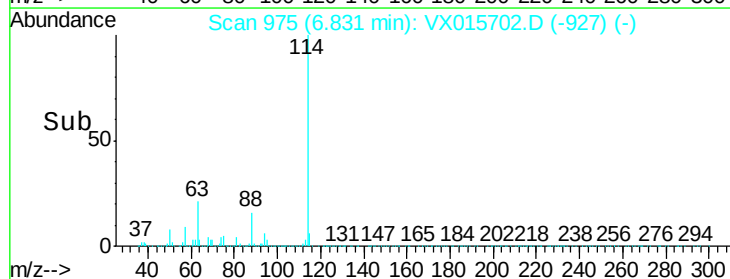
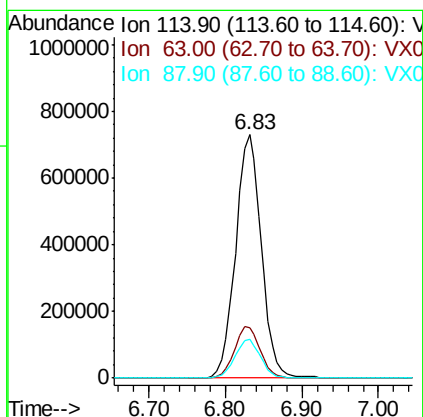
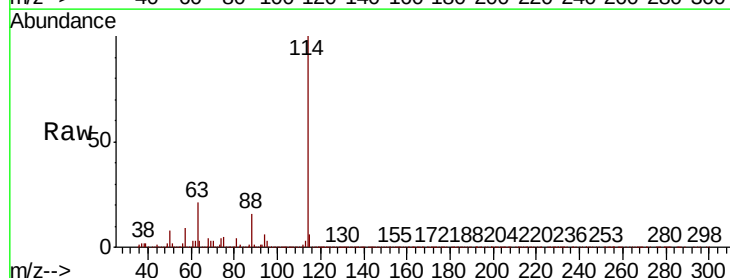
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0416WBL01

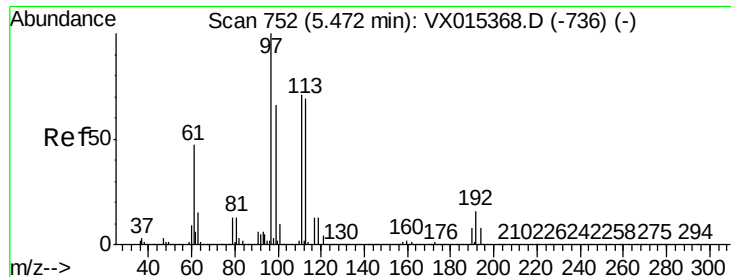
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 67      | 50.5  | 0.0   | 102.6 |



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.83 min Scan# 975  
 Delta R.T. -0.01 min  
 Lab File: VX015702.D  
 Acq: 16 Apr 2020 11:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 20.7  | 0.0   | 44.2  |
| 88      | 15.7  | 0.0   | 33.8  |

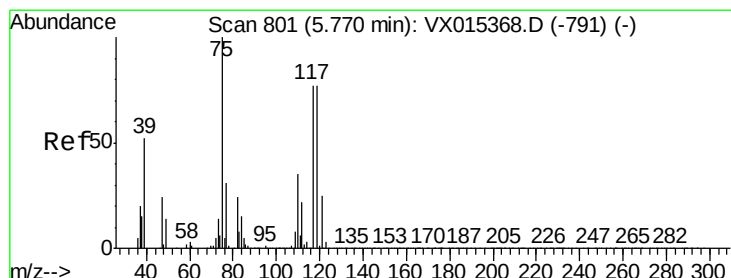
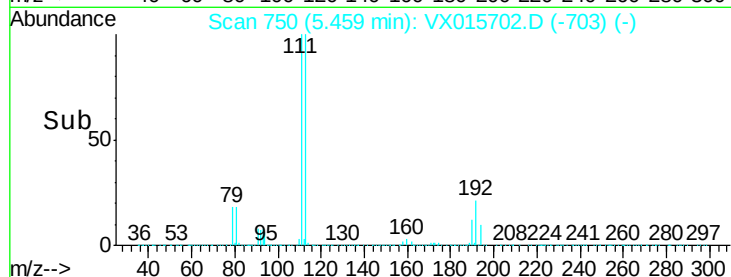
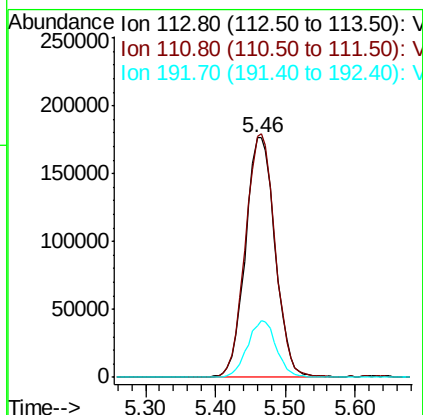
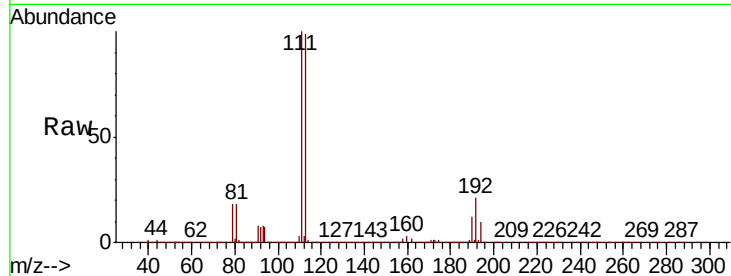




#35  
 Dibromofluoromethane  
 Concen: 47.940 ug/l  
 RT: 5.46 min Scan# 750  
 Delta R.T. -0.01 min  
 Lab File: VX015702.D  
 Acq: 16 Apr 2020 11:06

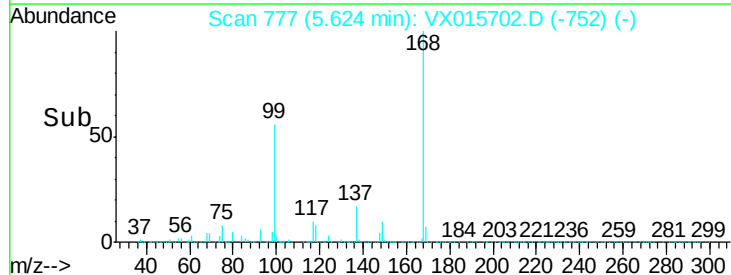
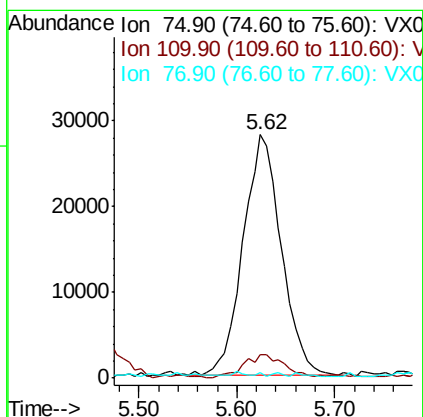
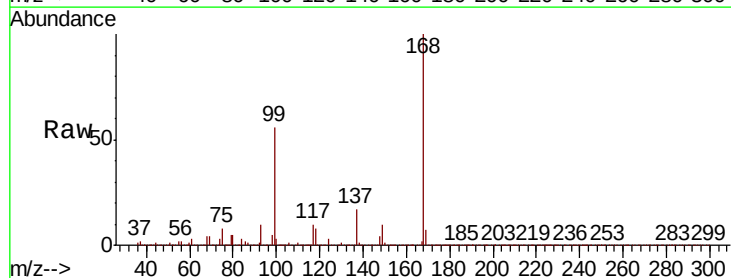
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 VX0416WBL01

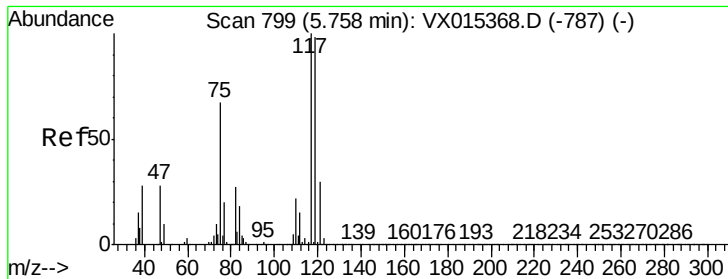
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.3 | 81.5  | 122.3 |
| 192     | 22.8  | 17.8  | 26.6  |



#36  
 1,1-Dichloropropene  
 Concen: 4.884 ug/l  
 RT: 5.62 min Scan# 777  
 Delta R.T. -0.15 min  
 Lab File: VX015702.D  
 Acq: 16 Apr 2020 11:06

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 10.8  | 17.1  | 51.3# |
| 77      | 0.2   | 24.6  | 36.8# |





#38

Carbon Tetrachloride

Concen: 5.978 ug/l

RT: 5.62 min Scan# 777

Delta R.T. -0.13 min

Lab File: VX015702.D

Acq: 16 Apr 2020 11:06

Instrument :

MSVOA\_X

ClientSampleId :

VX0416WBL01

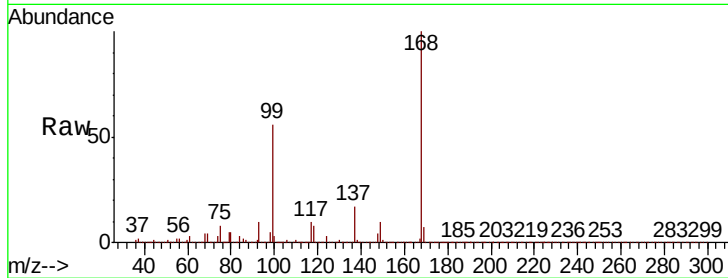
Tot Ion:117 Resp: 101249

Ion Ratio Lower Upper

117 100

119 3.8 78.0 117.0#

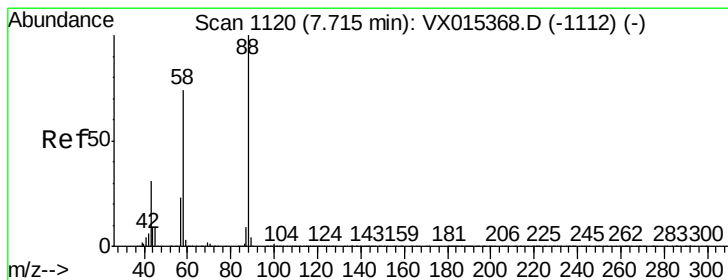
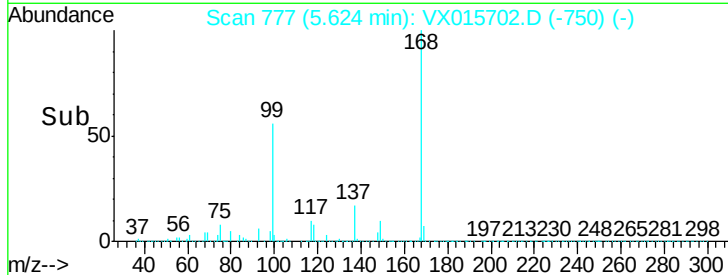
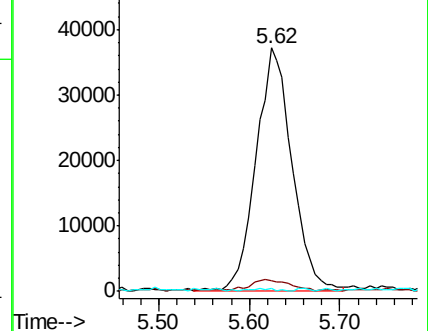
121 0.6 23.8 35.8#



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: 2.042 ug/l

RT: 7.72 min Scan# 1121

Delta R.T. 0.01 min

Lab File: VX015702.D

Acq: 16 Apr 2020 11:06

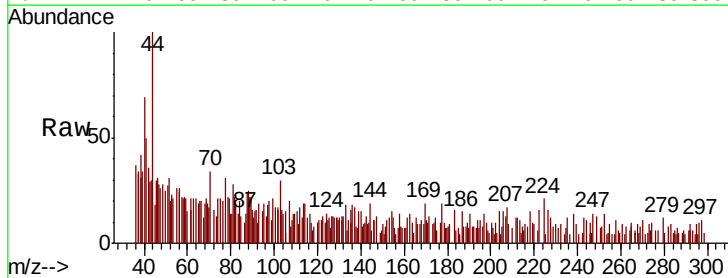
Tgt Ion: 88 Resp: 654

Ion Ratio Lower Upper

88 100

43 92.7 30.1 45.1#

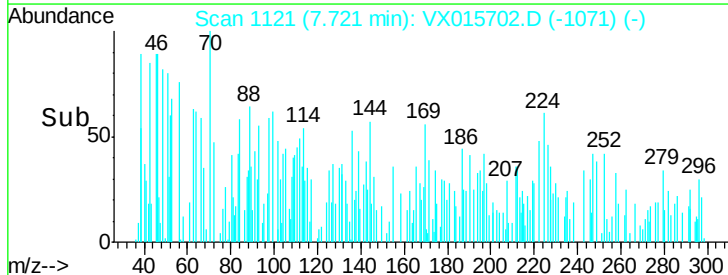
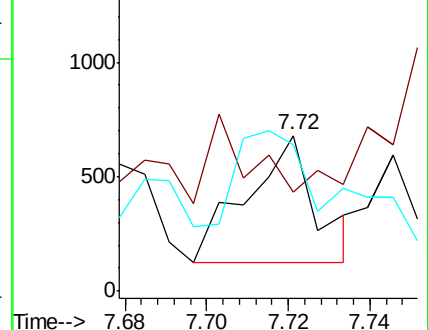
58 182.1 60.6 90.8#

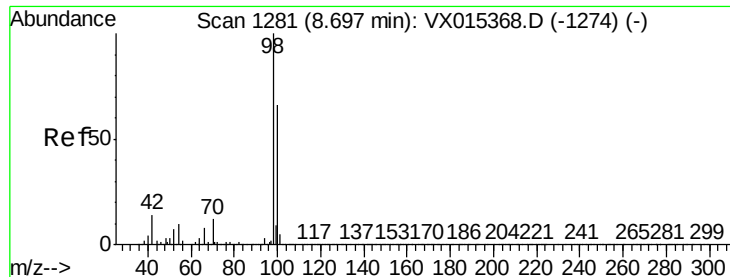


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.857 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VX015702.D

Acq: 16 Apr 2020 11:06

Instrument :

MSVOA\_X

ClientSampleId :

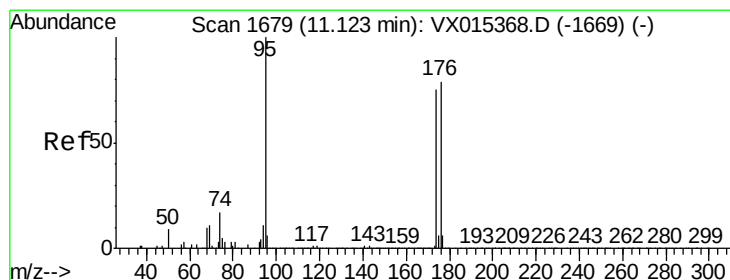
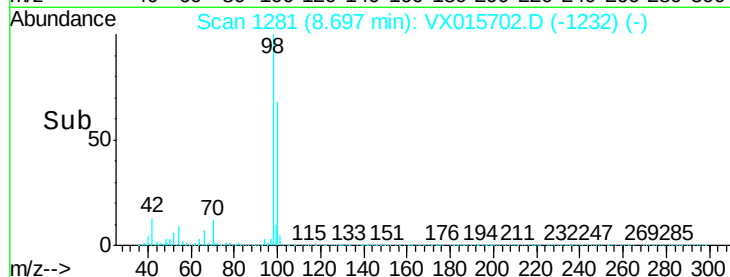
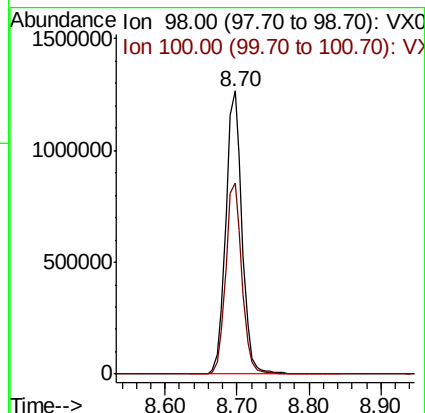
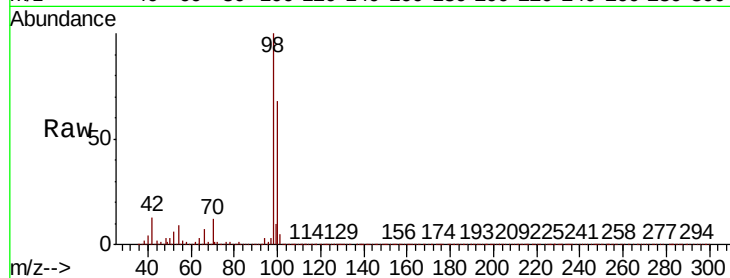
VX0416WBL01

Tot Ion: 98 Resp: 1991283

Ion Ratio Lower Upper

98 100

100 67.5 53.5 80.3



#62

4-Bromofluorobenzene

Concen: 49.113 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.00 min

Lab File: VX015702.D

Acq: 16 Apr 2020 11:06

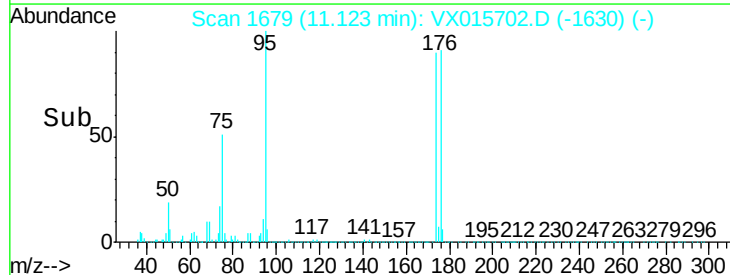
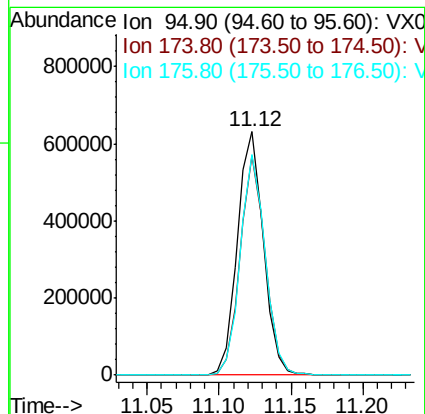
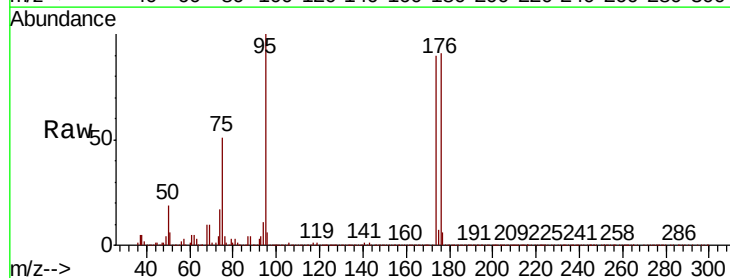
Tgt Ion: 95 Resp: 797175

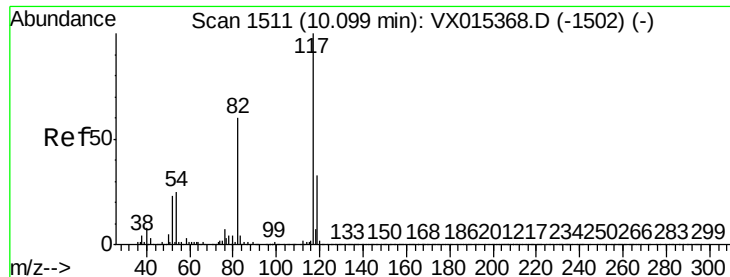
Ion Ratio Lower Upper

95 100

174 86.9 0.0 158.6

176 87.1 0.0 159.0

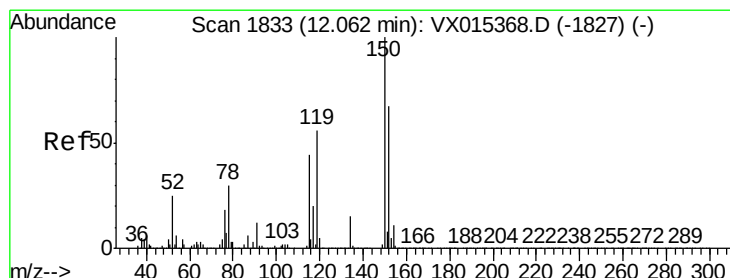
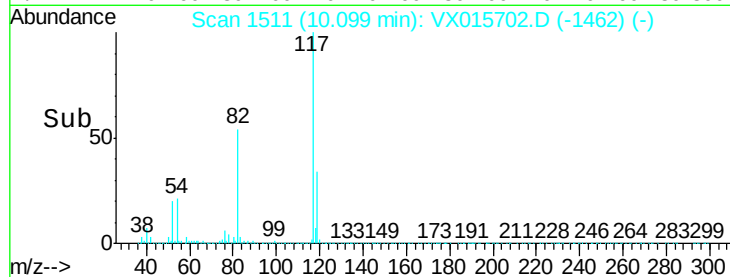
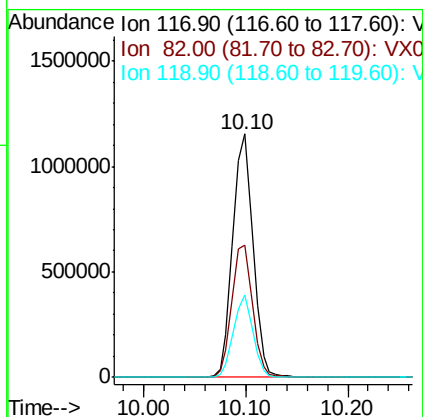
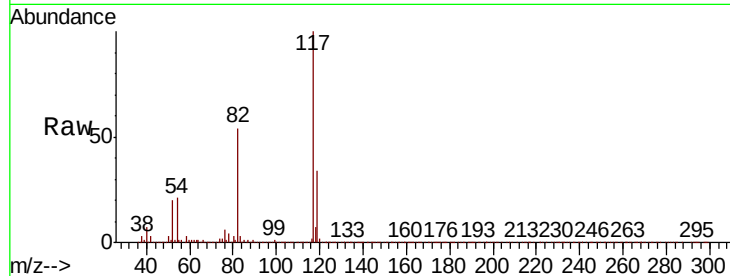




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.10 min Scan# 1511  
Delta R.T. -0.00 min  
Lab File: VX015702.D  
Acq: 16 Apr 2020 11:06

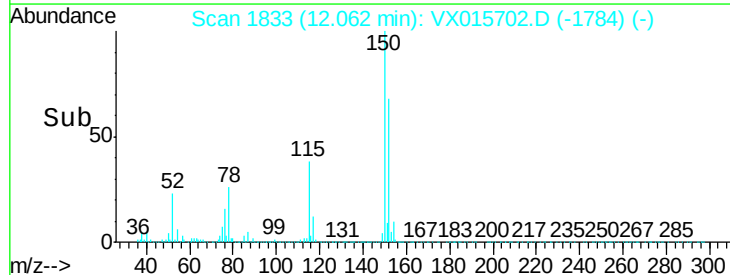
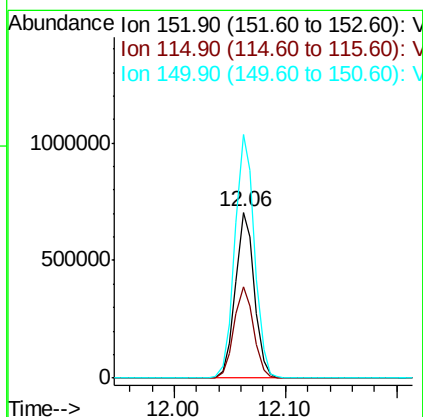
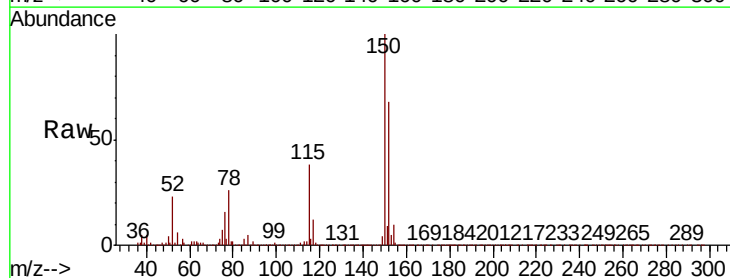
Instrument :  
MSVOA\_X  
ClientSampleId :  
VX0416WBL01

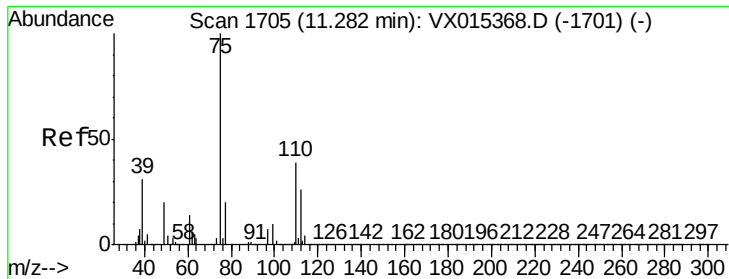
Tot Ion:117 Resp: 1583993  
Ion Ratio Lower Upper  
117 100  
82 54.3 47.8 71.8  
119 33.7 26.8 40.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.06 min Scan# 1833  
Delta R.T. -0.00 min  
Lab File: VX015702.D  
Acq: 16 Apr 2020 11:06

Tgt Ion:152 Resp: 831066  
Ion Ratio Lower Upper  
152 100  
115 56.2 39.0 116.9  
150 151.5 0.0 340.8





#76

1,2,3-Trichloropropane

Concen: 23.659 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.16 min

Lab File: VX015702.D

Acq: 16 Apr 2020 11:06

Instrument :

MSVOA\_X

ClientSampleId :

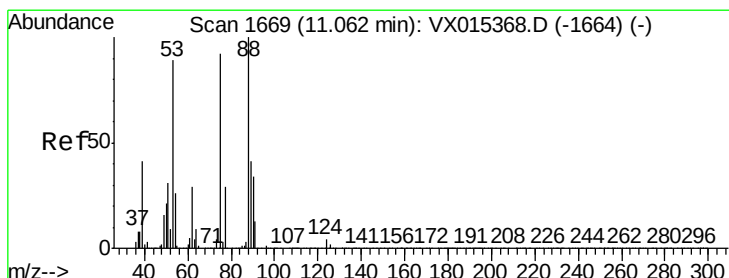
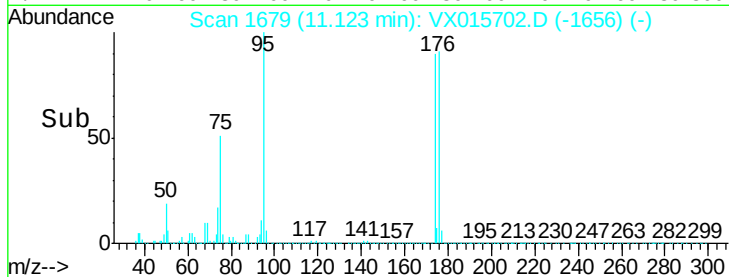
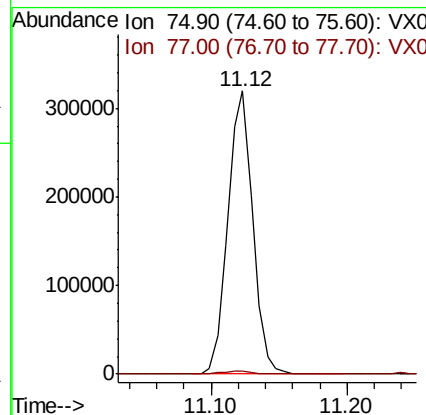
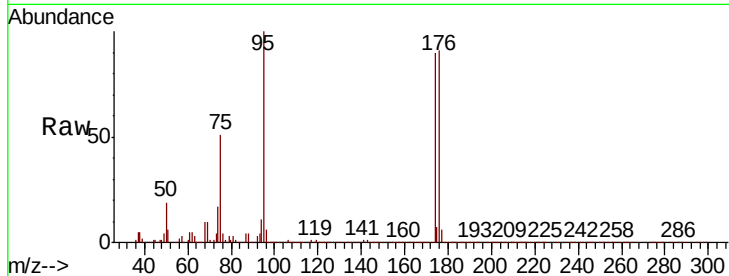
VX0416WBL01

Tot Ion: 75 Resp: 404338

Ion Ratio Lower Upper

75 100

77 1.2 21.2 63.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 56.769 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015702.D

Acq: 16 Apr 2020 11:06

Tgt Ion: 75 Resp: 404338

Ion Ratio Lower Upper

75 100

53 0.0 80.1 120.1#

89 0.1 36.1 54.1#

