

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX040220\  
 Data File : VX015489.D  
 Acq On : 02 Apr 2020 18:00  
 Operator : JC/SP  
 Sample : PB127948ZHE#11  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Apr 03 08:03:37 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      | 5.64  | 168  | 1111378  | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 1806304  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 1692945  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 945871   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.04  | 65   | 751476   | 47.94 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.88%  |          |
| 35) Dibromofluoromethane    | 5.47  | 113  | 572158   | 49.55 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.10%  |          |
| 50) Toluene-d8              | 8.70  | 98   | 2171292  | 51.08 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.16% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 942113   | 54.53 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 109.06% |          |

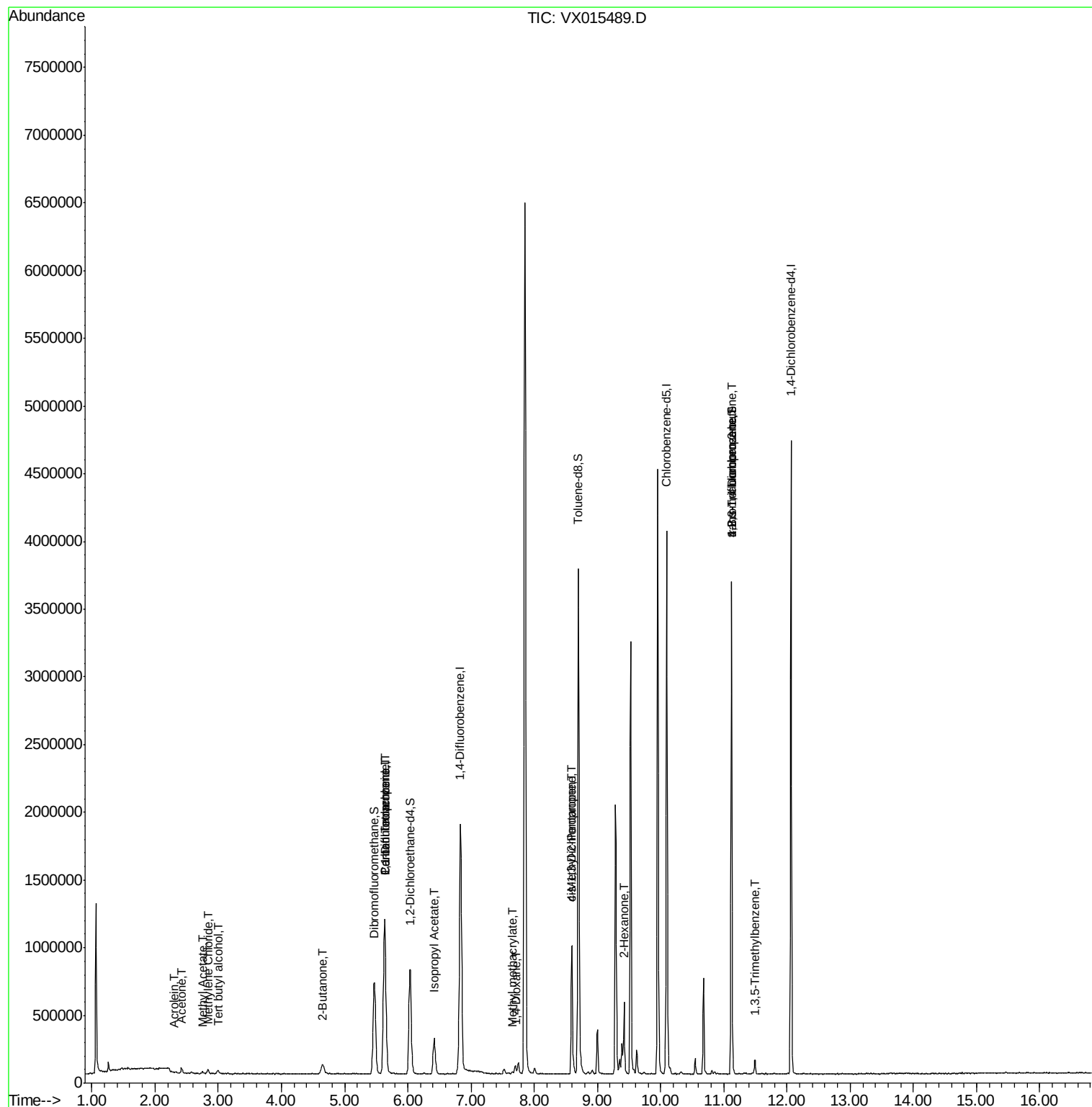
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.64  | 94   | 208      | Below Cal | #      | 79     |
| 11) Tert butyl alcohol         | 2.99  | 59   | 16956    | 4.519     | ug/l # | 87     |
| 13) Acrolein                   | 2.30  | 56   | 551      | 0.258     | ug/l # | 14     |
| 16) Acetone                    | 2.42  | 43   | 47551    | 7.061     | ug/l # | 88     |
| 18) Methyl Acetate             | 2.75  | 43   | 15469    | 0.900     | ug/l # | 86     |
| 20) Methylene Chloride         | 2.84  | 84   | 13624    | 1.083     | ug/l   | 94     |
| 25) 2-Butanone                 | 4.65  | 43   | 12817    | 1.183     | ug/l   | 95     |
| 36) 1,1-Dichloropropene        | 5.63  | 75   | 82717    | 4.970     | ug/l # | 53     |
| 38) Carbon Tetrachloride       | 5.63  | 117  | 103423   | 5.737     | ug/l # | 14     |
| 43) Isopropyl Acetate          | 6.42  | 43   | 391712   | 10.708    | ug/l   | 99     |
| 48) Methyl methacrylate        | 7.65  | 41   | 20015    | 1.095     | ug/l # | 19     |
| 49) 1,4-Dioxane                | 7.72  | 88   | 1429     | 4.192     | ug/l # | 20     |
| 51) 4-Methyl-2-Pentanone       | 8.59  | 43   | 374267   | 18.053    | ug/l # | 53     |
| 54) cis-1,3-Dichloropropene    | 8.60  | 75   | 150791   | 6.771     | ug/l # | 54     |
| 59) 2-Hexanone                 | 9.42  | 43   | 422806   | 27.013    | ug/l # | 27     |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 488762   | 25.128    | ug/l # | 35     |
| 80) 1,3,5-Trimethylbenzene     | 11.49 | 105  | 45718    | 0.864     | ug/l   | 98     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 488762   | 60.293    | ug/l # | 10     |

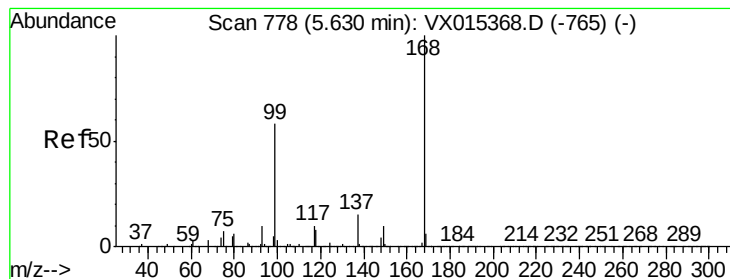
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX040220\  
Data File : VX015489.D  
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Sample : PB127948ZHE#11  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Apr 03 08:03:37 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: 5.64 min Scan# 779

Delta R.T. 0.01 min

Lab File: VX015489.D

Acq: 02 Apr 2020 18:00

Instrument :

MSVOA\_X

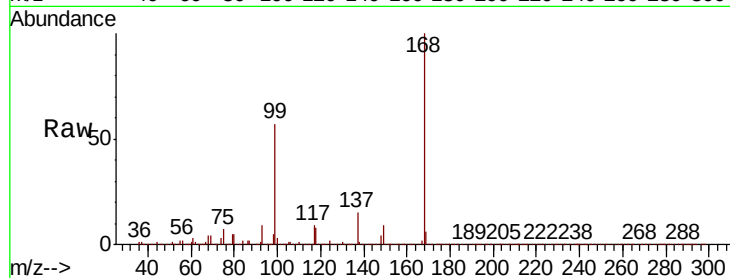
ClientSampleId :

Tot Ion:168 Resp: 1111378

Ion Ratio Lower Upper

168 100

99 56.9 46.4 69.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

400000

300000

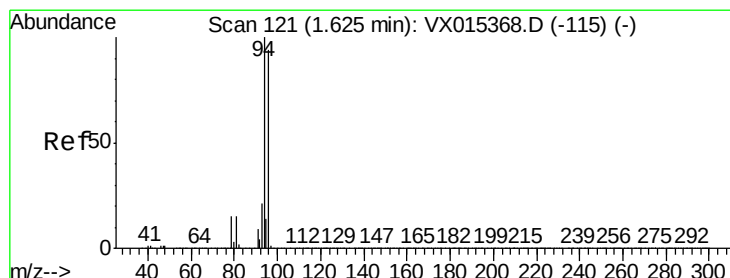
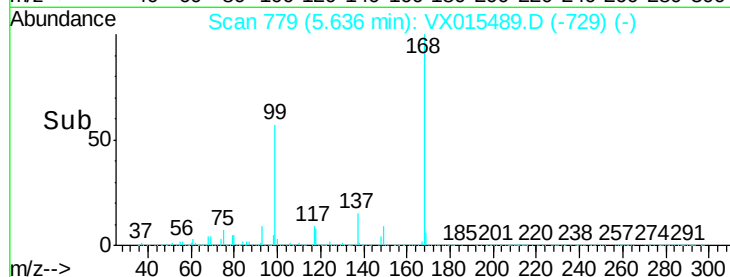
200000

100000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX015489.D

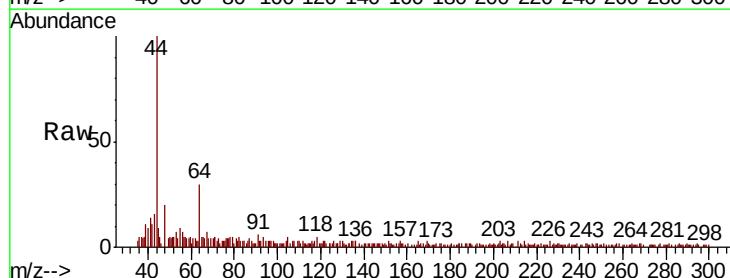
Acq: 02 Apr 2020 18:00

Tgt Ion: 94 Resp: 208

Ion Ratio Lower Upper

94 100

96 114.1 74.8 112.2#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1200

1000

800

600

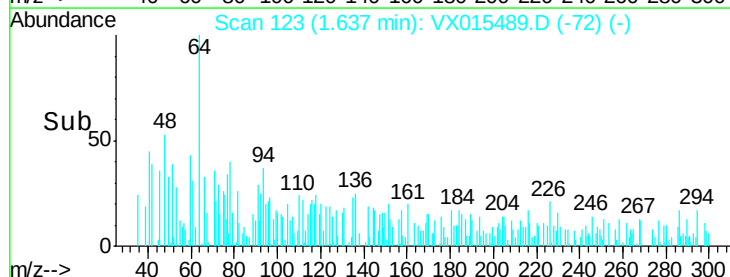
400

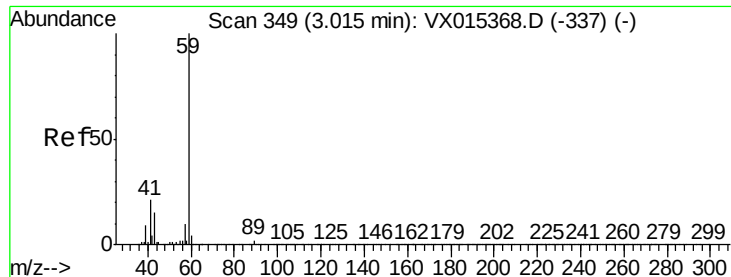
200

0

Time-->

1.63 1.64 1.65



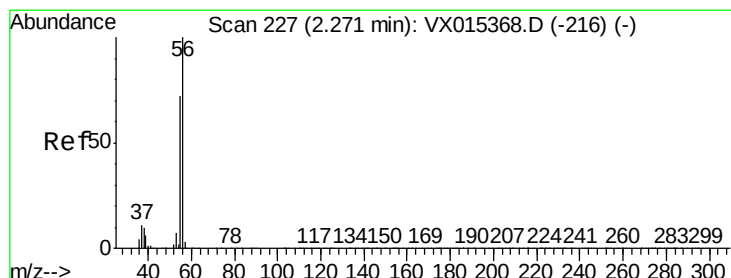
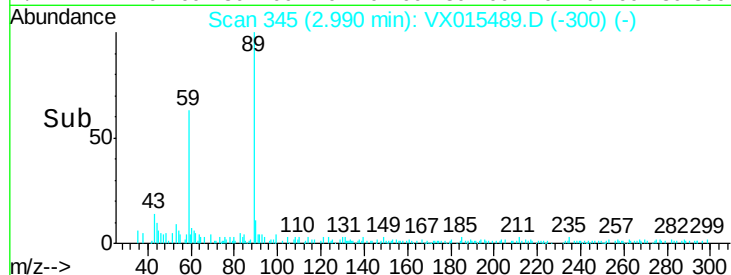
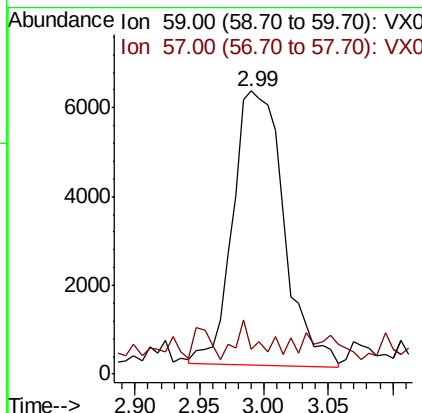
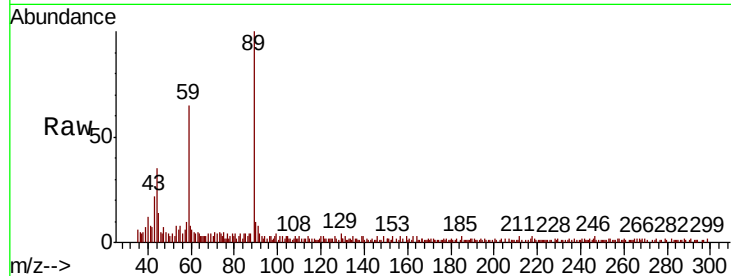


#11

Tert butyl alcohol  
Concen: 4.519 ug/l  
RT: 2.99 min Scan# 345  
Delta R.T. -0.02 min  
Lab File: VX015489.D  
Acq: 02 Apr 2020 18:00

Instrument :  
MSVOA\_X  
ClientSampleId :

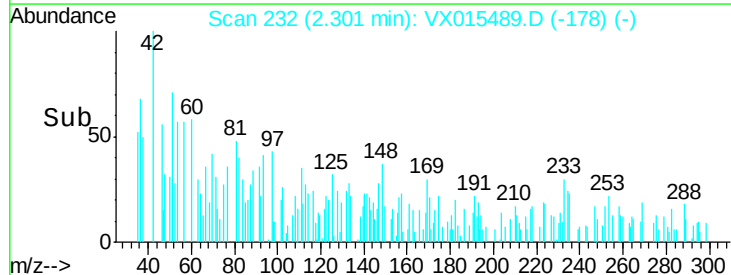
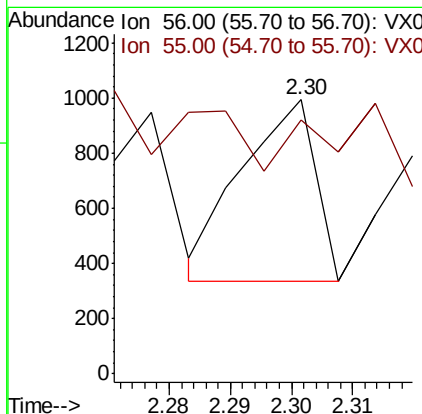
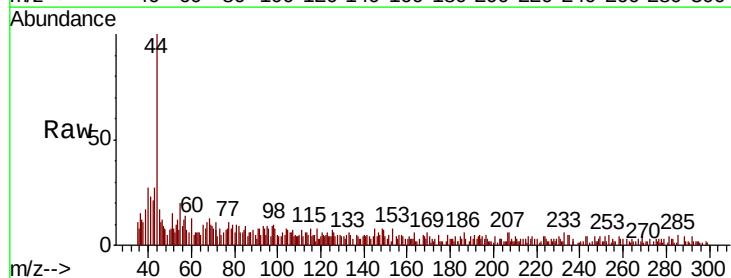
Tot Ion: 59 Resp: 16956  
Ion Ratio Lower Upper  
59 100  
57 5.1 8.1 12.1#

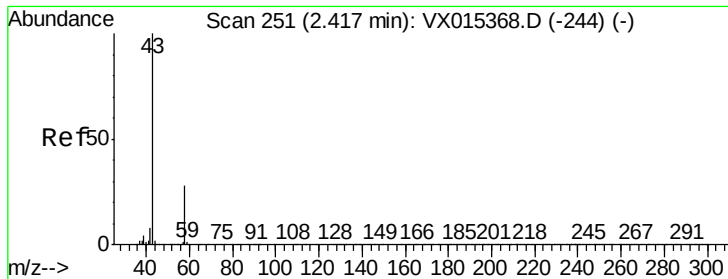


#13

Acrolein  
Concen: 0.258 ug/l  
RT: 2.30 min Scan# 232  
Delta R.T. 0.03 min  
Lab File: VX015489.D  
Acq: 02 Apr 2020 18:00

Tgt Ion: 56 Resp: 551  
Ion Ratio Lower Upper  
56 100  
55 0.0 57.0 85.4#

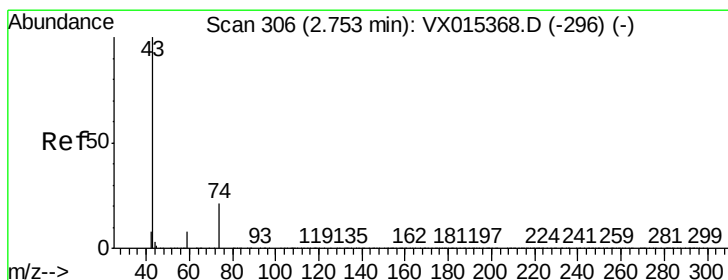
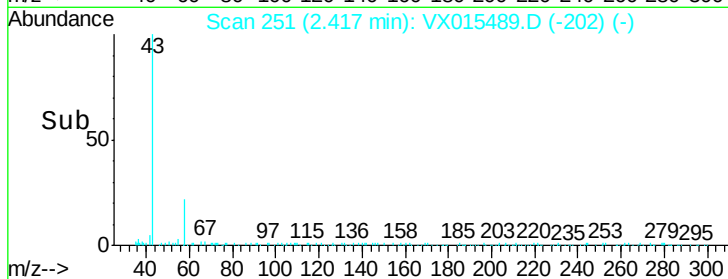
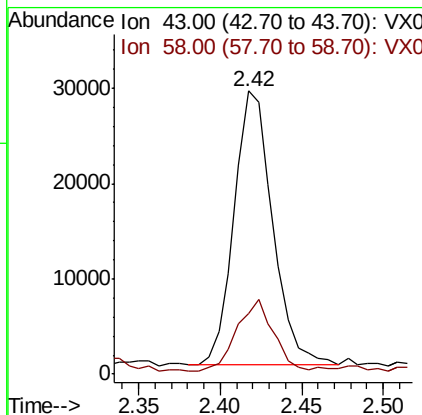
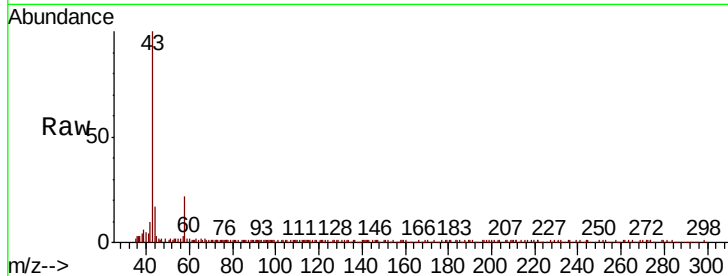




#16  
Acetone  
Concen: 7.061 ug/l  
RT: 2.42 min Scan# 251  
Delta R.T. -0.00 min  
Lab File: VX015489.D  
Acq: 02 Apr 2020 18:00

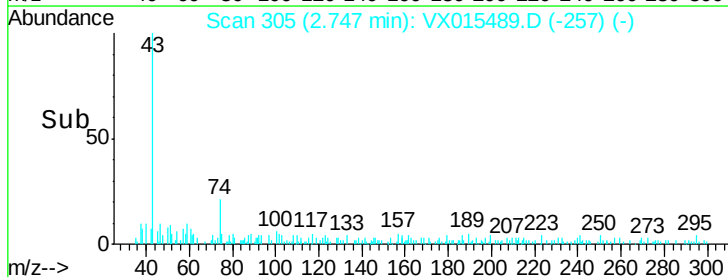
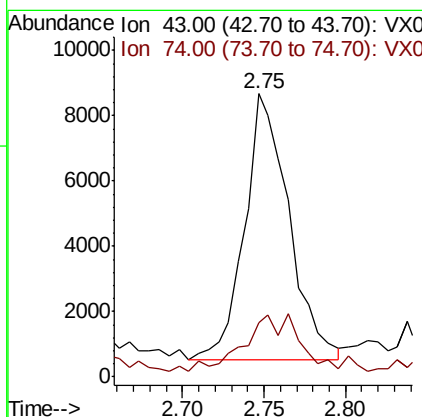
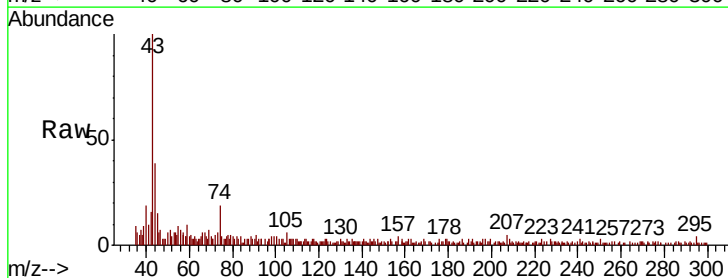
Instrument :  
MSVOA\_X  
ClientSampleId :

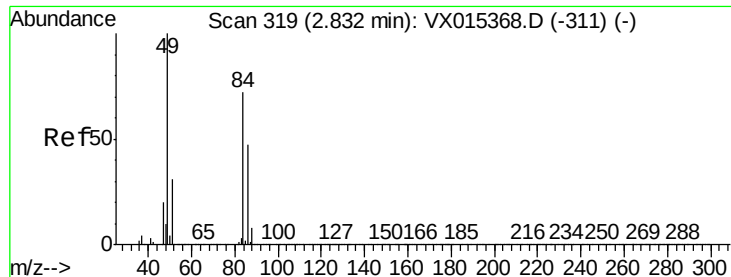
Tot Ion: 43 Resp: 47551  
Ion Ratio Lower Upper  
43 100  
58 21.1 22.1 33.1#



#18  
Methyl Acetate  
Concen: 0.900 ug/l  
RT: 2.75 min Scan# 305  
Delta R.T. -0.01 min  
Lab File: VX015489.D  
Acq: 02 Apr 2020 18:00

Tgt Ion: 43 Resp: 15469  
Ion Ratio Lower Upper  
43 100  
74 26.9 16.5 24.7#

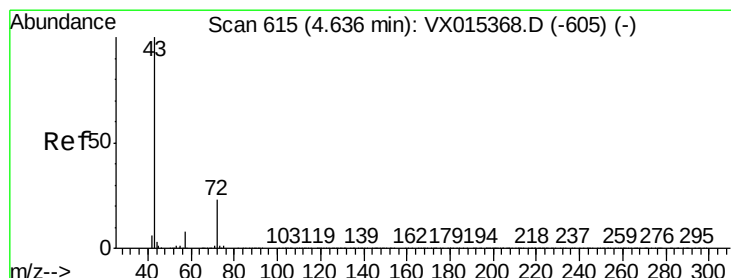
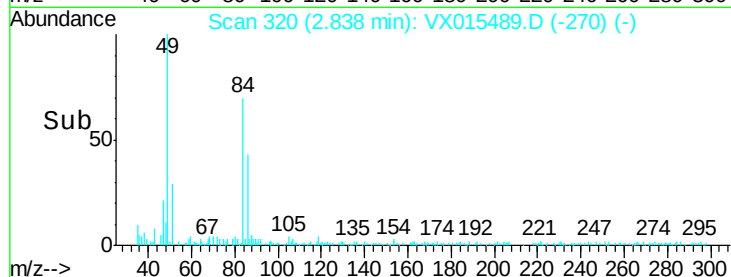
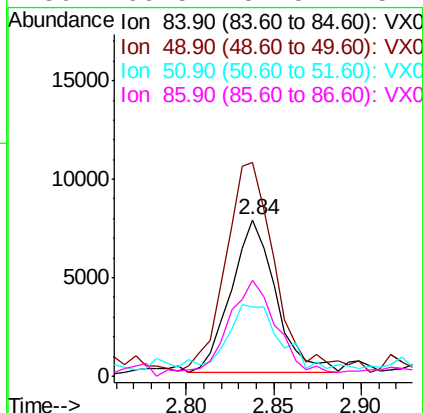
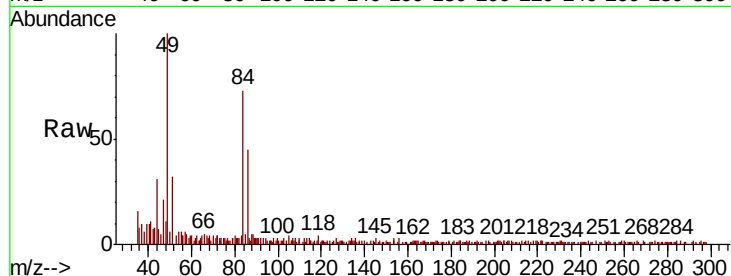




#20  
Methylene Chloride  
Concen: 1.083 ug/l  
RT: 2.84 min Scan# 320  
Delta R.T. 0.01 min  
Lab File: VX015489.D  
Acq: 02 Apr 2020 18:00

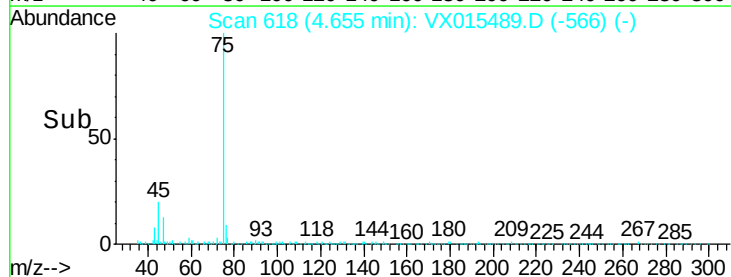
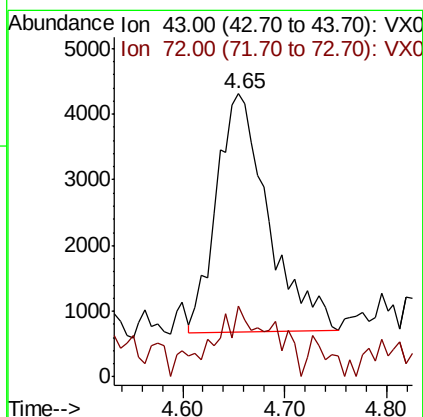
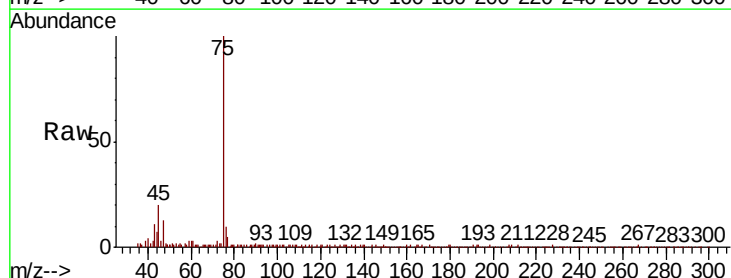
Instrument :  
MSVOA\_X  
ClientSampleId :

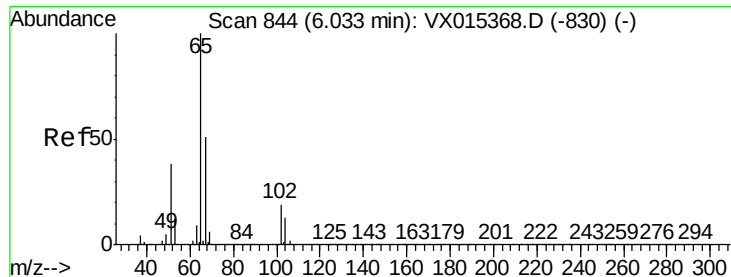
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 13624 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 133.3 | 111.3 | 166.9 |
| 51       | 37.8  | 34.0  | 51.0  |
| 86       | 60.5  | 52.5  | 78.7  |



#25  
2-Butanone  
Concen: 1.183 ug/l  
RT: 4.65 min Scan# 618  
Delta R.T. 0.02 min  
Lab File: VX015489.D  
Acq: 02 Apr 2020 18:00

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 12817 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 21.0  | 19.0  | 28.4  |

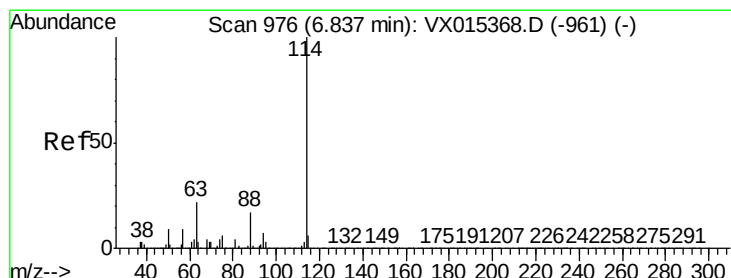
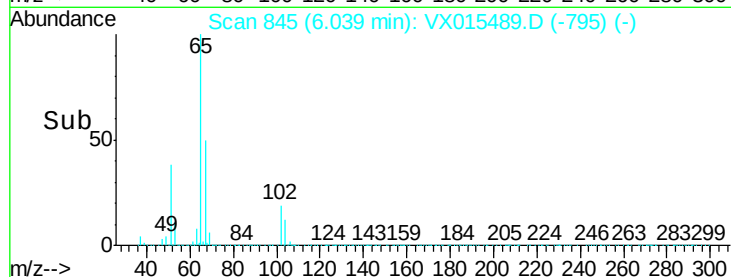
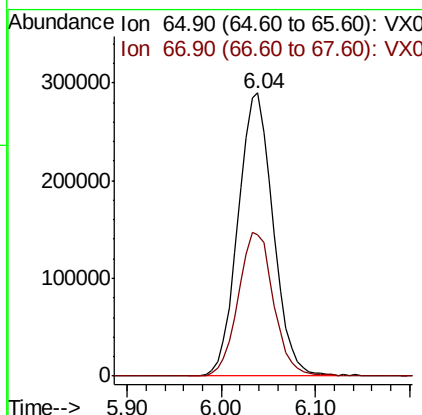
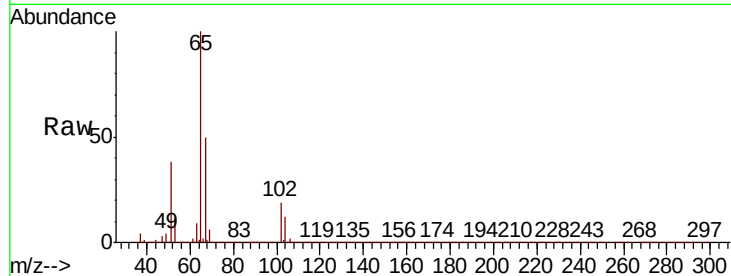




#33  
 1,2-Dichloroethane-d4  
 Concen: 47.942 ug/l  
 RT: 6.04 min Scan# 845  
 Delta R.T. 0.01 min  
 Lab File: VX015489.D  
 Acq: 02 Apr 2020 18:00

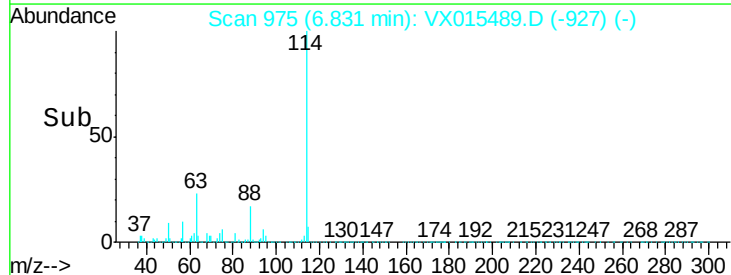
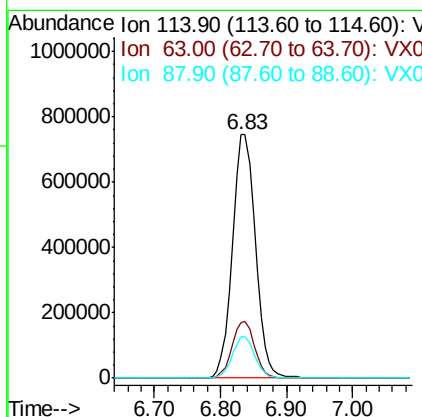
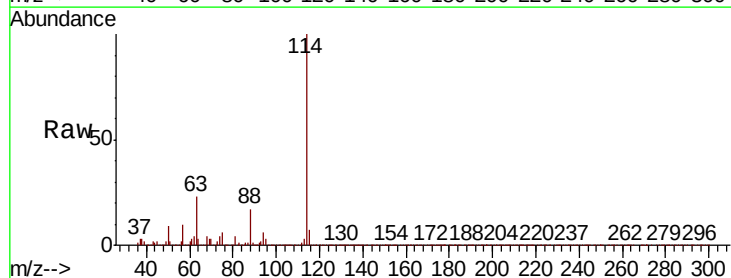
Instrument :  
 MSVOA\_X  
 ClientSampleId :

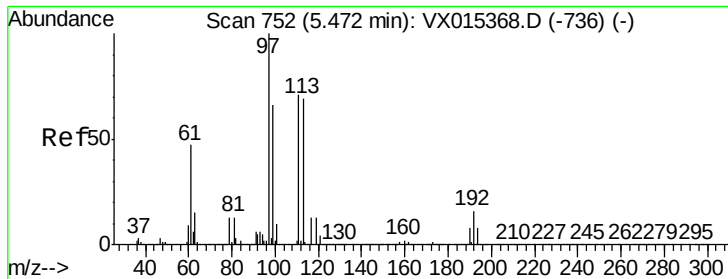
Tot Ion: 65 Resp: 751476  
 Ion Ratio Lower Upper  
 65 100  
 67 50.9 0.0 102.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.83 min Scan# 975  
 Delta R.T. -0.01 min  
 Lab File: VX015489.D  
 Acq: 02 Apr 2020 18:00

Tgt Ion: 114 Resp: 1806304  
 Ion Ratio Lower Upper  
 114 100  
 63 22.9 0.0 44.2  
 88 17.2 0.0 33.8

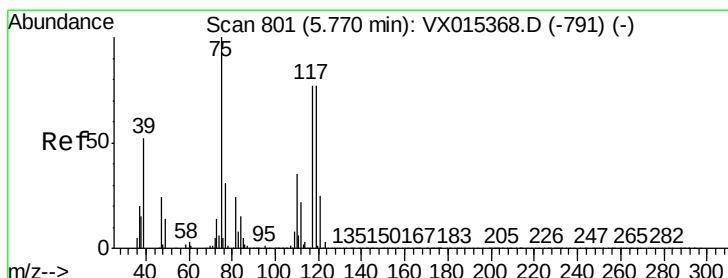
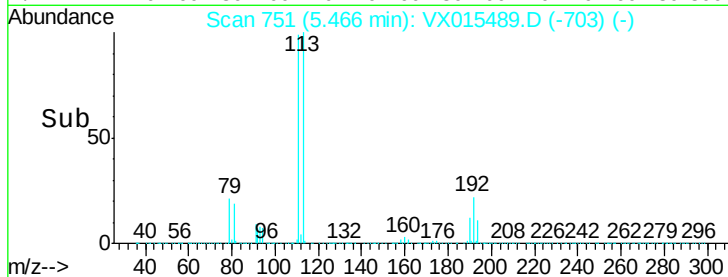
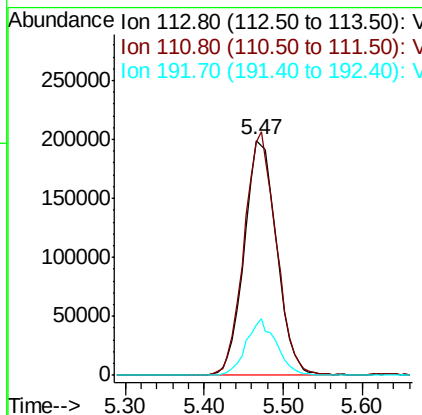
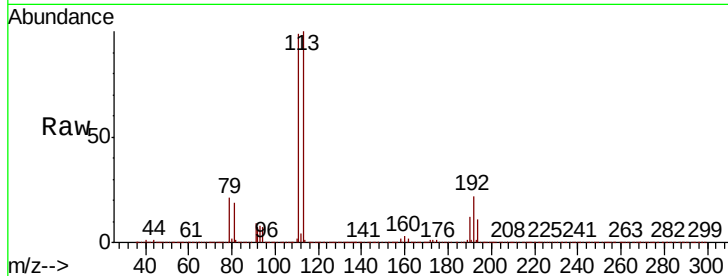




#35  
Dibromofluoromethane  
Concen: 49.553 ug/l  
RT: 5.47 min Scan# 751  
Delta R.T. -0.01 min  
Lab File: VX015489.D  
Acq: 02 Apr 2020 18:00

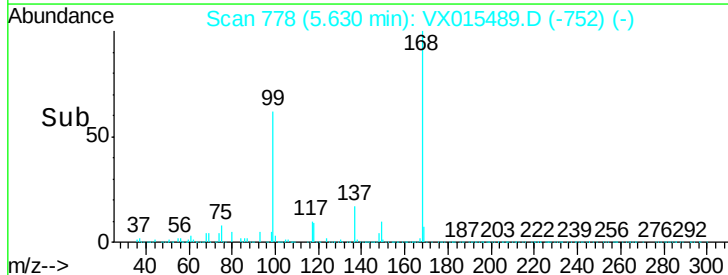
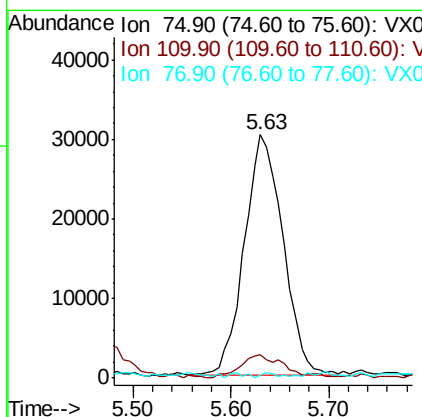
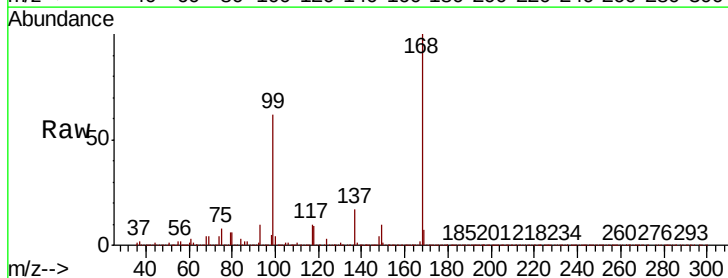
Instrument :  
MSVOA\_X  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.7 | 81.5  | 122.3 |
| 192     | 22.2  | 17.8  | 26.6  |

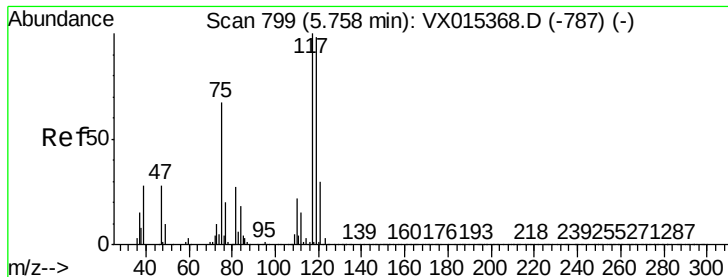


#36  
1,1-Dichloropropene  
Concen: 4.970 ug/l  
RT: 5.63 min Scan# 778  
Delta R.T. -0.14 min  
Lab File: VX015489.D  
Acq: 02 Apr 2020 18:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 11.3  | 17.1  | 51.3# |
| 77      | 1.1   | 24.6  | 36.8# |







#38

Carbon Tetrachloride

Concen: 5.737 ug/l

RT: 5.63 min Scan# 778

Delta R.T. -0.13 min

Lab File: VX015489.D

Acq: 02 Apr 2020 18:00

Instrument :

MSVOA\_X

ClientSampled :

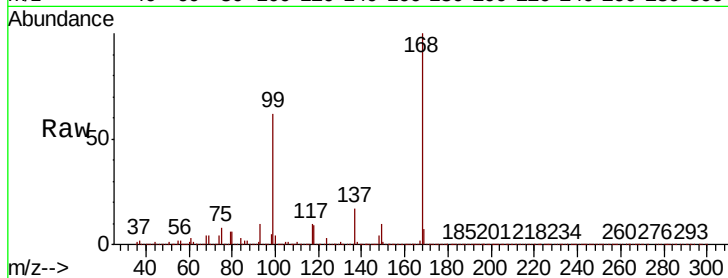
Tot Ion:117 Resp: 103423

Ion Ratio Lower Upper

117 100

119 3.6 78.0 117.0#

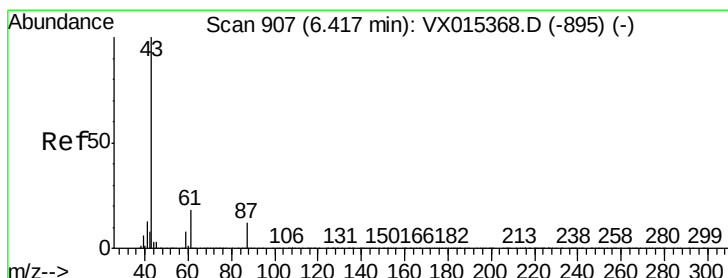
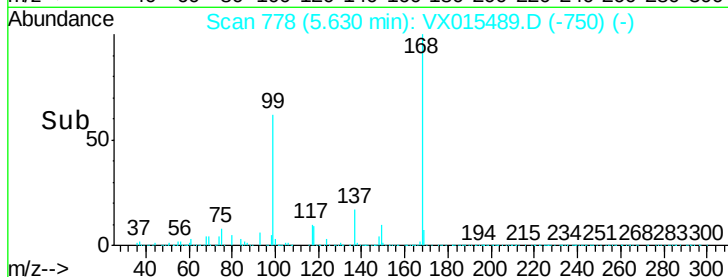
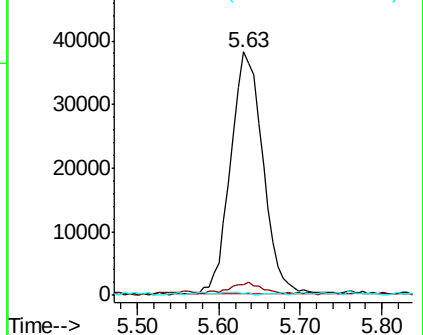
121 0.0 23.8 35.8#



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



#43

Isopropyl Acetate

Concen: 10.708 ug/l

RT: 6.42 min Scan# 907

Delta R.T. -0.00 min

Lab File: VX015489.D

Acq: 02 Apr 2020 18:00

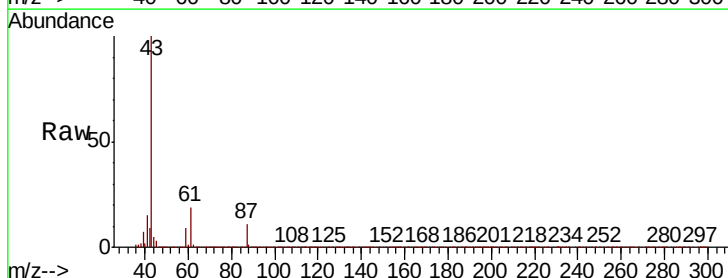
Tgt Ion: 43 Resp: 391712

Ion Ratio Lower Upper

43 100

61 18.1 14.8 22.2

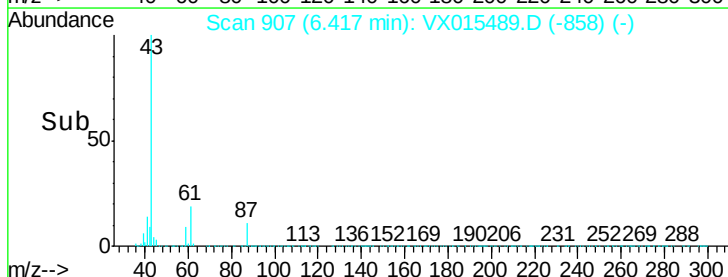
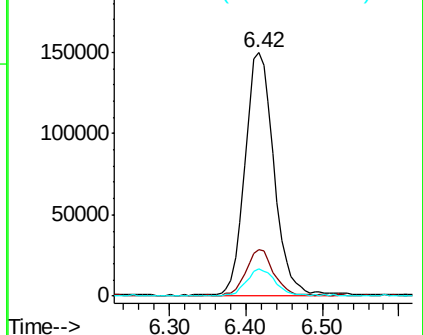
87 11.0 9.4 14.0

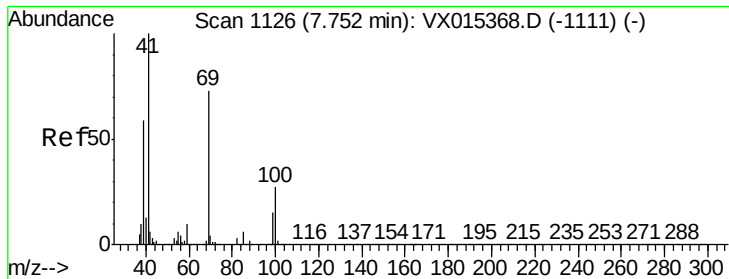


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

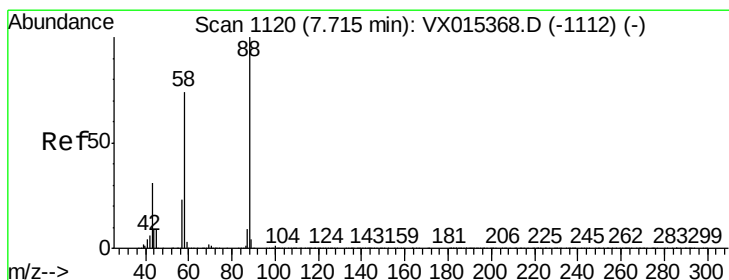
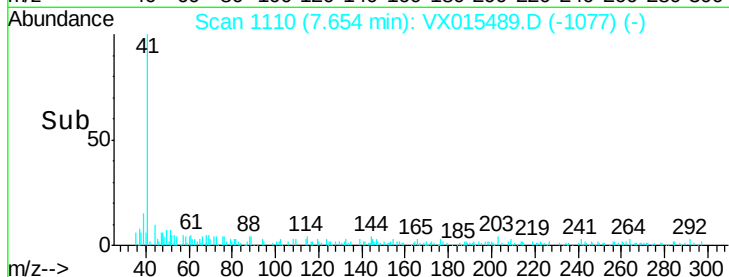
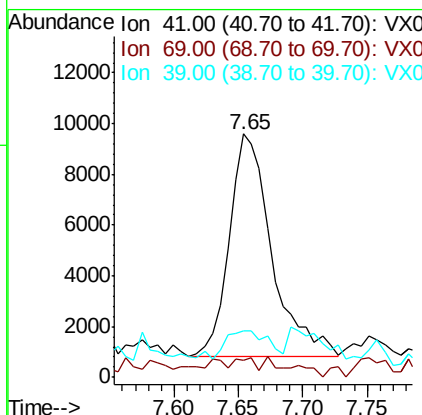
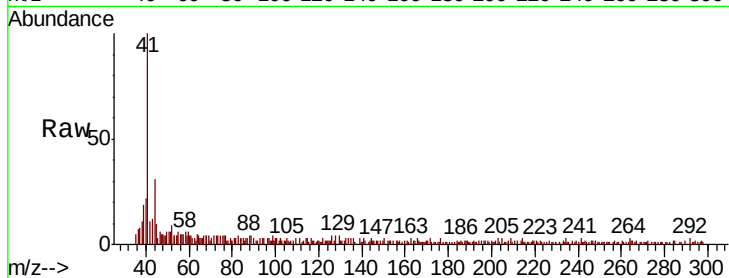




#48  
Methvl methacrylate  
Concen: 1.095 ug/l  
RT: 7.65 min Scan# 1110  
Delta R.T. -0.10 min  
Lab File: VX015489.D  
Acq: 02 Apr 2020 18:00

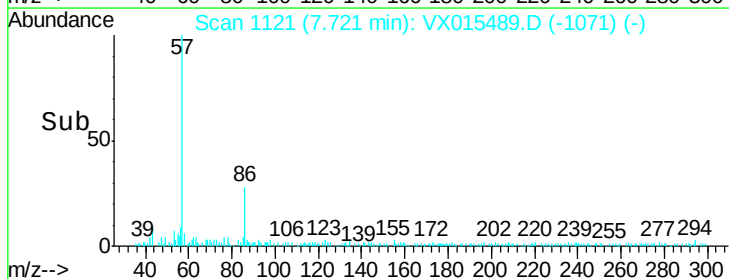
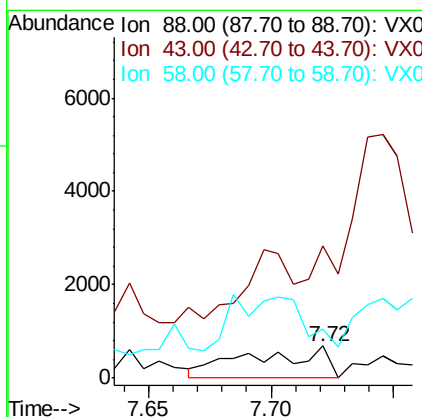
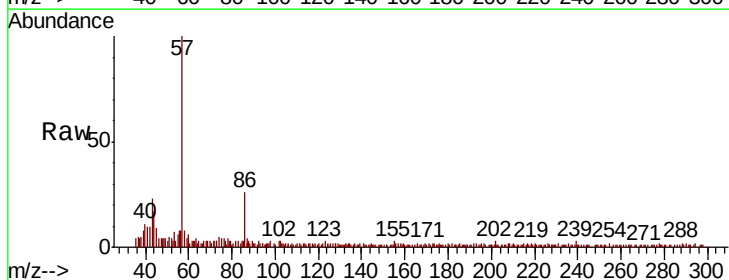
Instrument :  
MSVOA\_X  
ClientSampleId :

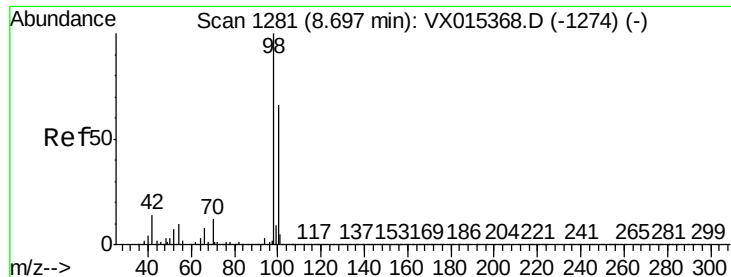
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 41      | 100   |       |       |
| 69      | 2.6   | 56.7  | 85.1# |
| 39      | 0.0   | 46.5  | 69.7# |



#49  
1,4-Dioxane  
Concen: 4.192 ug/l  
RT: 7.72 min Scan# 1121  
Delta R.T. 0.01 min  
Lab File: VX015489.D  
Acq: 02 Apr 2020 18:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 43      | 0.0   | 30.1  | 45.1# |
| 58      | 0.0   | 60.6  | 90.8# |





#50

Toluene-d8

Concen: 51.076 ug/l

RT: 8.70 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VX015489.D

Acq: 02 Apr 2020 18:00

Instrument :

MSVOA\_X

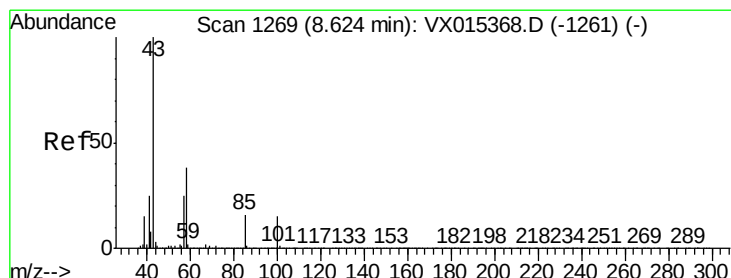
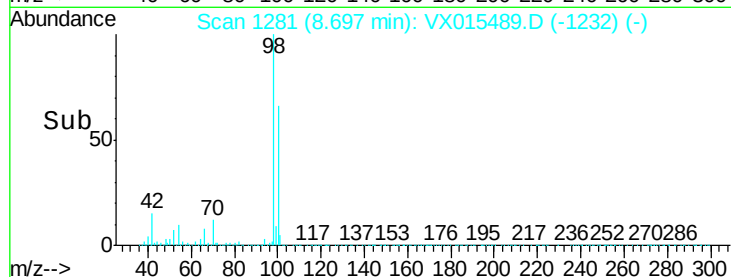
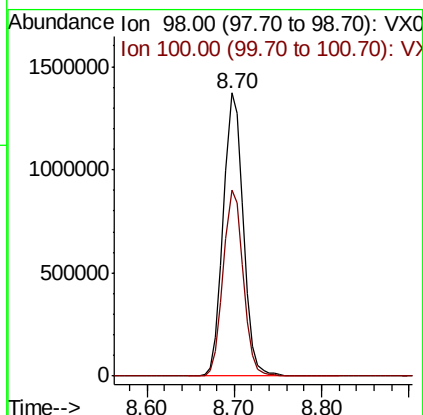
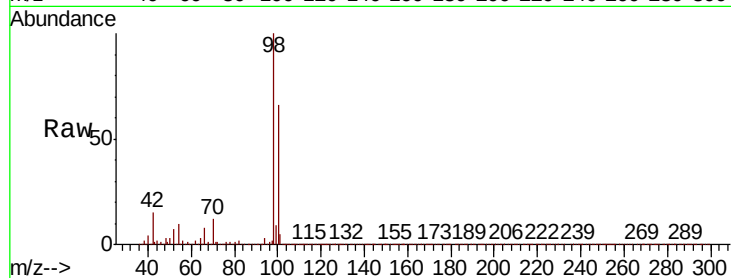
ClientSampled :

Tot Ion: 98 Resp: 2171292

Ion Ratio Lower Upper

98 100

100 65.9 53.5 80.3



#51

4-Methyl-2-Pentanone

Concen: 18.053 ug/l

RT: 8.59 min Scan# 1264

Delta R.T. -0.03 min

Lab File: VX015489.D

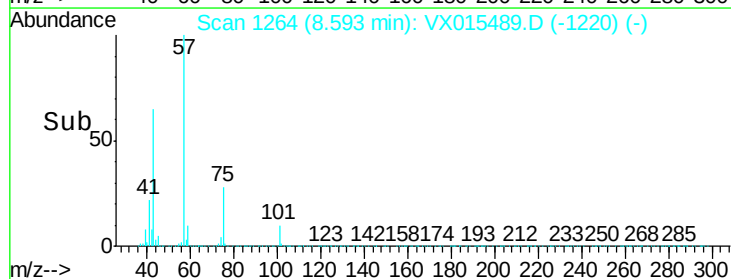
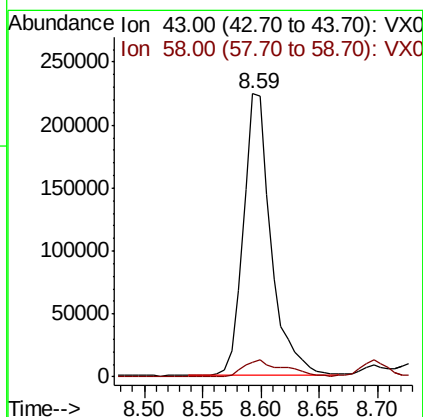
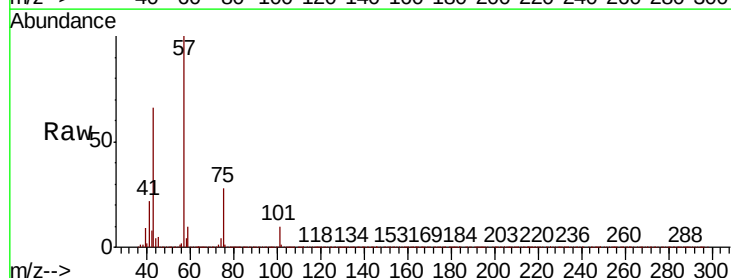
Acq: 02 Apr 2020 18:00

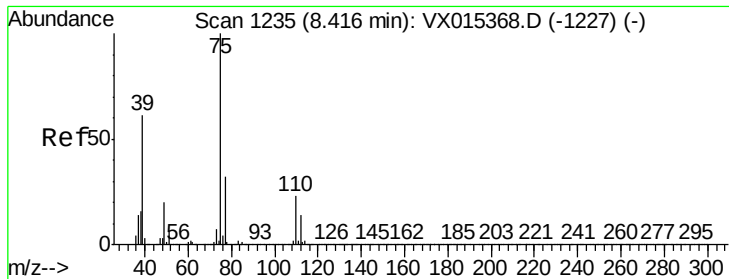
Tgt Ion: 43 Resp: 374267

Ion Ratio Lower Upper

43 100

58 8.9 29.7 44.5#



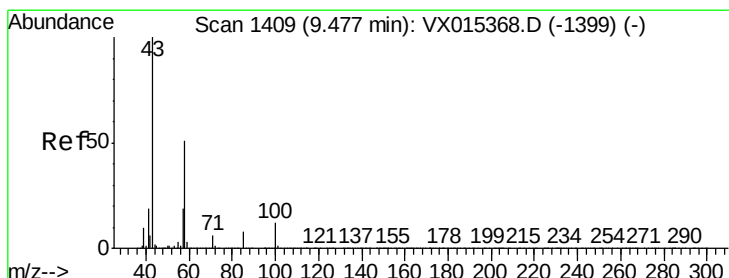
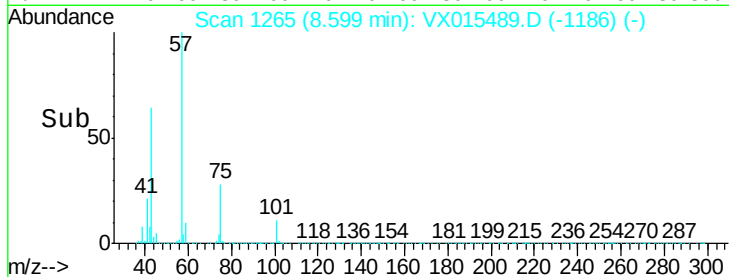
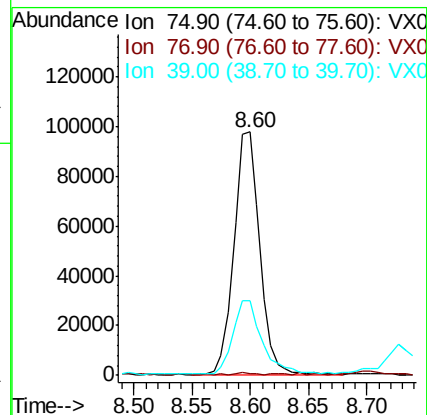
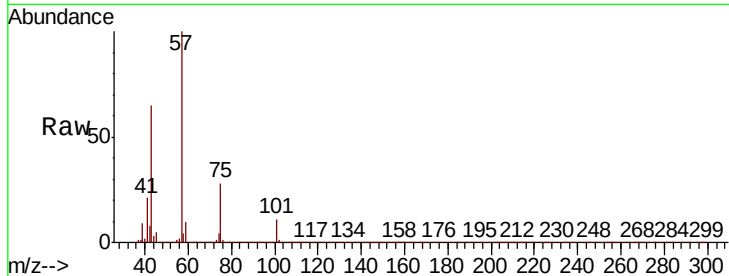


#54

cis-1,3-Dichloropropene  
Concen: 6.771 ug/l  
RT: 8.60 min Scan# 1265  
Delta R.T. 0.18 min  
Lab File: VX015489.D  
Acq: 02 Apr 2020 18:00

Instrument :  
MSVOA\_X  
ClientSampleId :

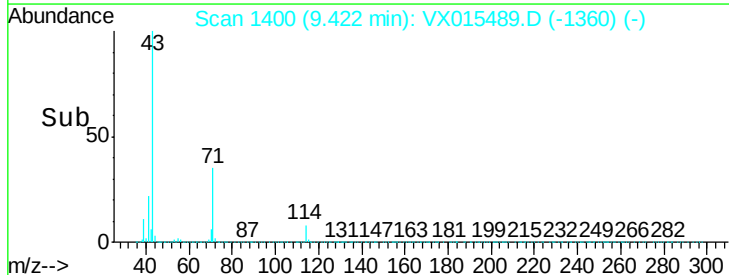
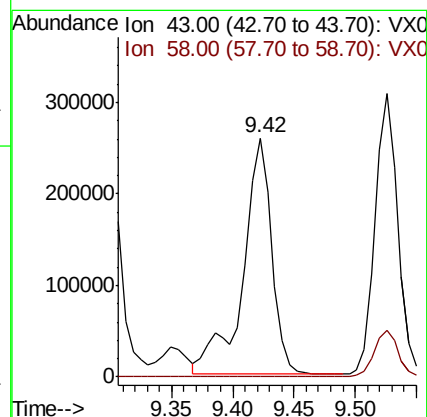
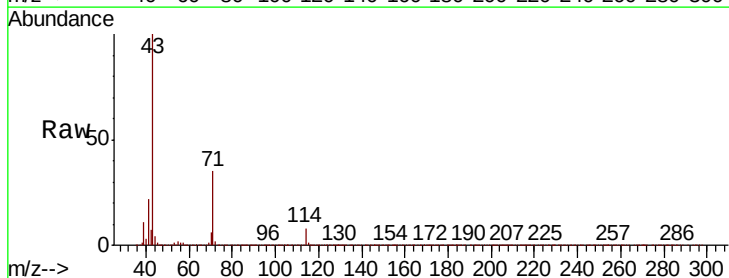
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 0.9   | 25.8  | 38.6# |
| 39      | 29.9  | 49.0  | 73.4# |

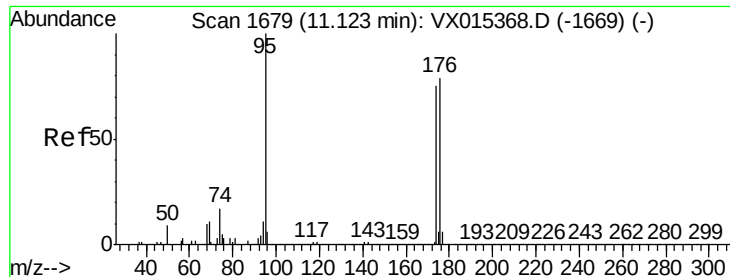


#59

2-Hexanone  
Concen: 27.013 ug/l  
RT: 9.42 min Scan# 1400  
Delta R.T. -0.05 min  
Lab File: VX015489.D  
Acq: 02 Apr 2020 18:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 0.0   | 25.6  | 76.6# |





#62

4-Bromofluorobenzene

Concen: 54.532 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. -0.00 min

Lab File: VX015489.D

Acq: 02 Apr 2020 18:00

Instrument :

MSVOA\_X

ClientSampled :

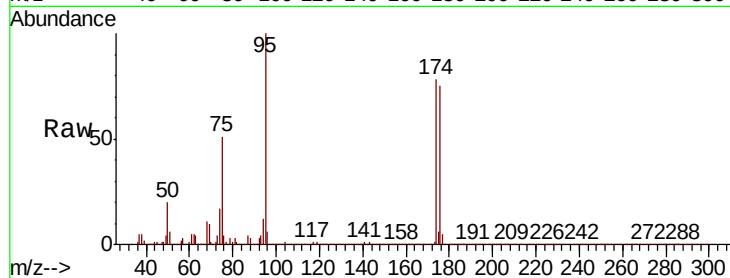
Tot Ion: 95 Resp: 942113

Ion Ratio Lower Upper

95 100

174 78.2 0.0 158.6

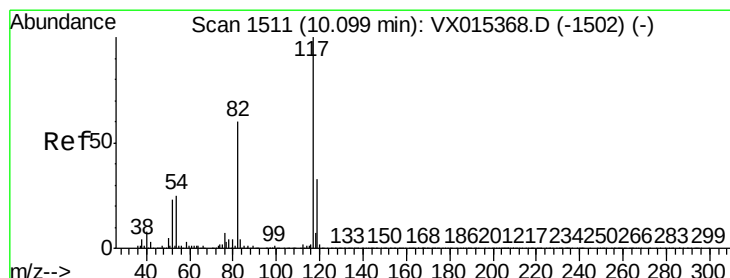
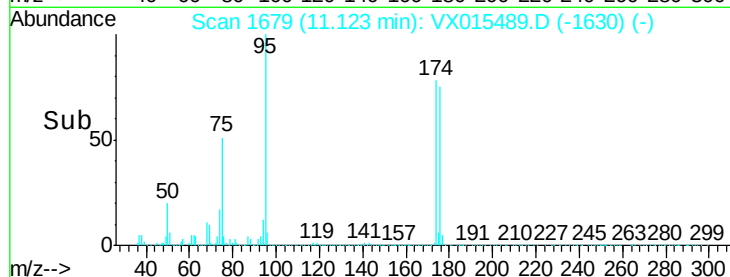
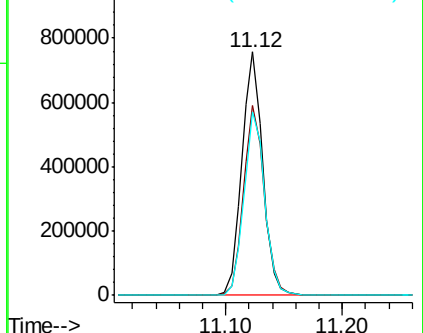
176 76.0 0.0 159.0



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: 10.10 min Scan# 1511

Delta R.T. -0.00 min

Lab File: VX015489.D

Acq: 02 Apr 2020 18:00

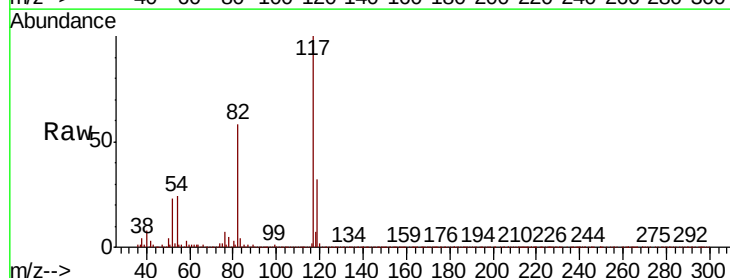
Tgt Ion: 117 Resp: 1692945

Ion Ratio Lower Upper

117 100

82 57.9 47.8 71.8

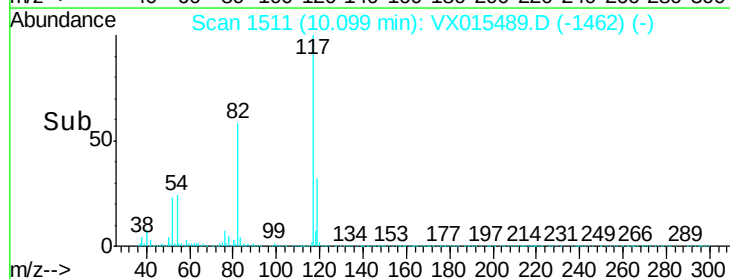
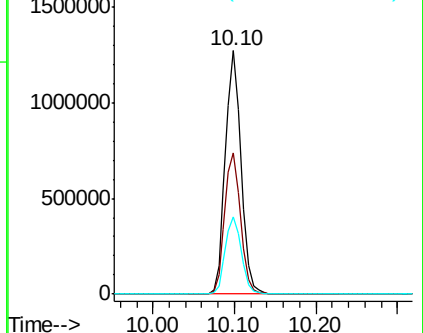
119 31.7 26.8 40.2

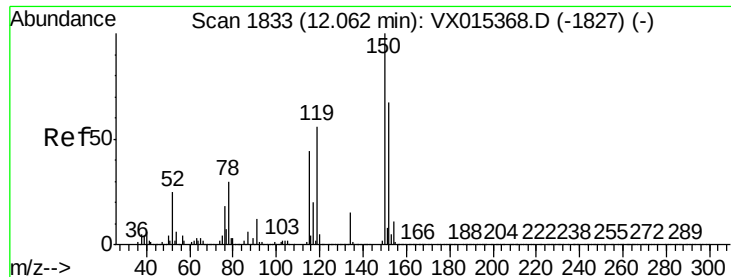


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V

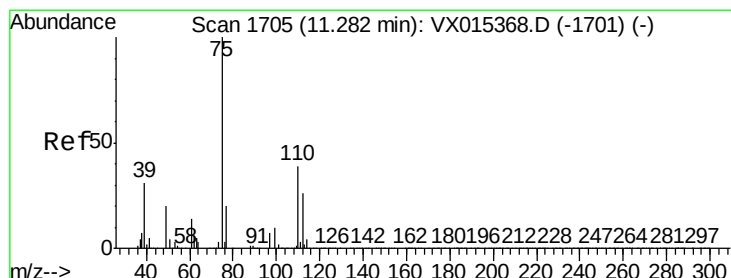
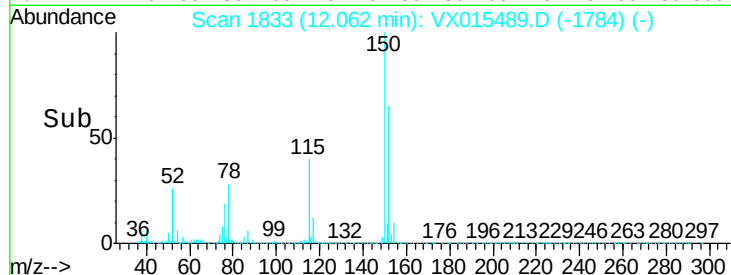
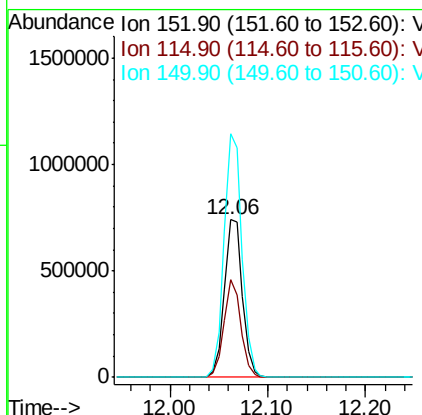
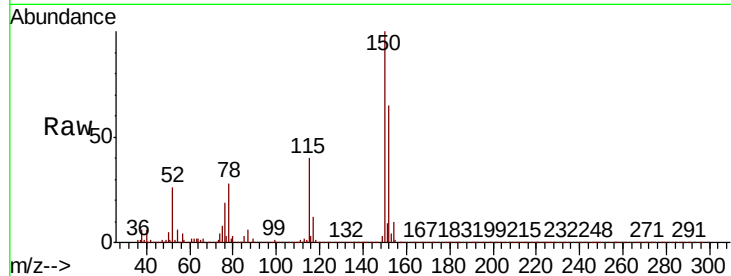




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.06 min Scan# 1833  
 Delta R.T. -0.00 min  
 Lab File: VX015489.D  
 Acq: 02 Apr 2020 18:00

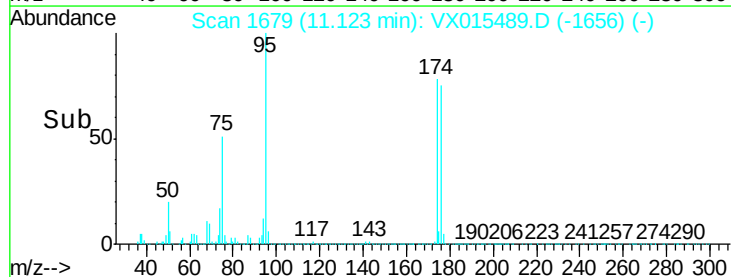
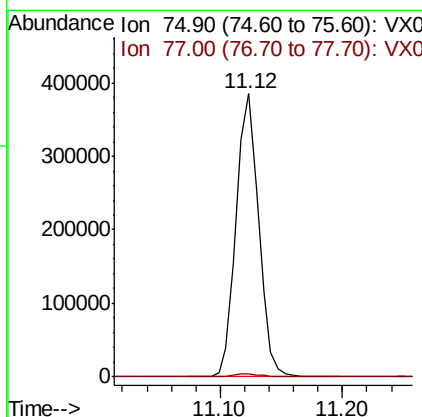
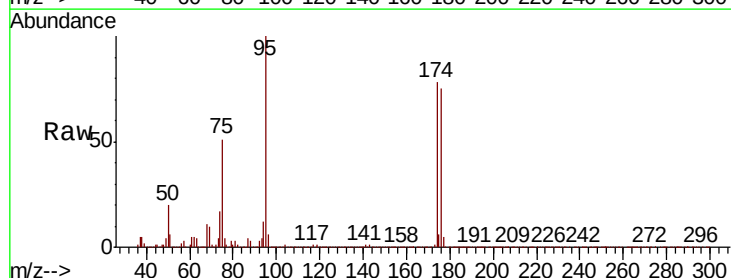
Instrument :  
 MSVOA\_X  
 ClientSampleId :

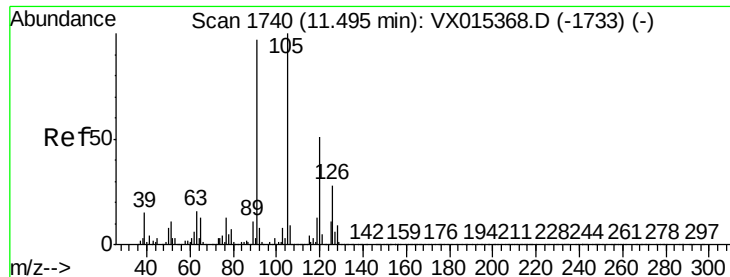
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 58.0  | 39.0  | 116.9 |
| 150     | 153.5 | 0.0   | 340.8 |



#76  
 1,2,3-Trichloropropane  
 Concen: 25.128 ug/l  
 RT: 11.12 min Scan# 1679  
 Delta R.T. -0.16 min  
 Lab File: VX015489.D  
 Acq: 02 Apr 2020 18:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 1.1   | 21.2  | 63.6# |





#80

1,3,5-Trimethylbenzene

Concen: 0.864 ug/l

RT: 11.49 min Scan# 1740

Delta R.T. -0.00 min

Lab File: VX015489.D

Acq: 02 Apr 2020 18:00

Instrument :

MSVOA\_X

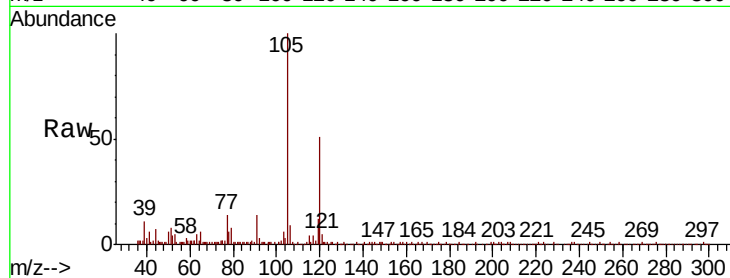
ClientSampled :

Tot Ion:105 Resp: 45718

Ion Ratio Lower Upper

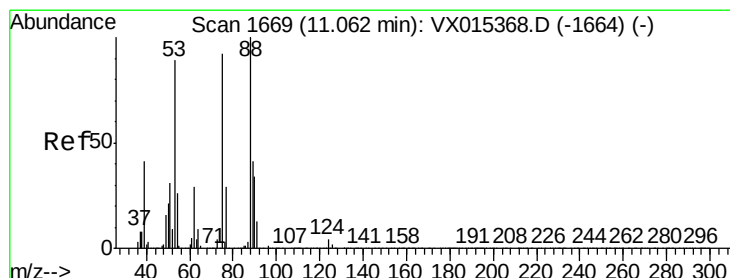
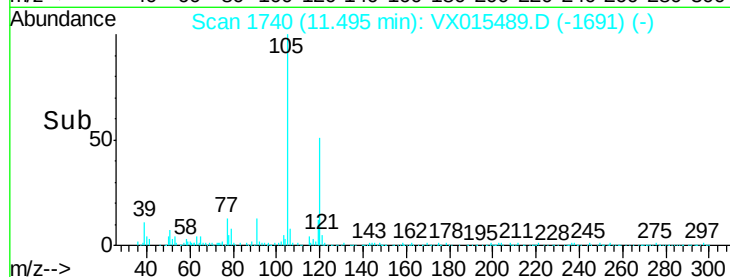
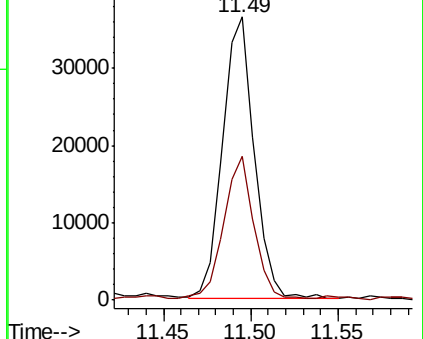
105 100

120 48.6 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 60.293 ug/l

RT: 11.12 min Scan# 1679

Delta R.T. 0.06 min

Lab File: VX015489.D

Acq: 02 Apr 2020 18:00

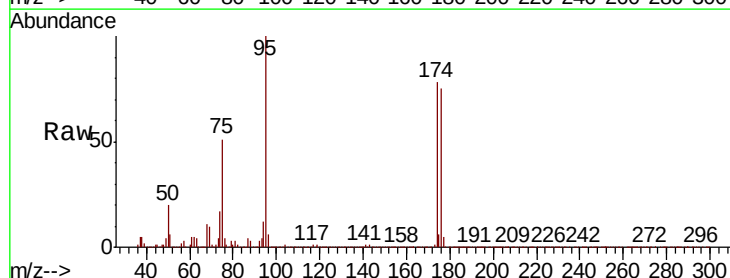
Tgt Ion: 75 Resp: 488762

Ion Ratio Lower Upper

75 100

53 0.1 80.1 120.1#

89 0.0 36.1 54.1#



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

