

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX051520\  
 Data File : VX016274.D  
 Acq On : 15 May 2020 12:46  
 Operator : JC/SP  
 Sample : L2669-03  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: May 16 06:41:23 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X050420W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 06 06:43:32 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 254654   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.84  | 114  | 422011   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 412345   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 204791   | 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   | 156089   | 46.58 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.16%  |          |
| 35) Dibromofluoromethane    | 5.46  | 113  | 123806   | 46.31 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.62%  |          |
| 50) Toluene-d8              | 8.70  | 98   | 518570   | 50.34 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.68% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 205491   | 52.44 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.88% |          |

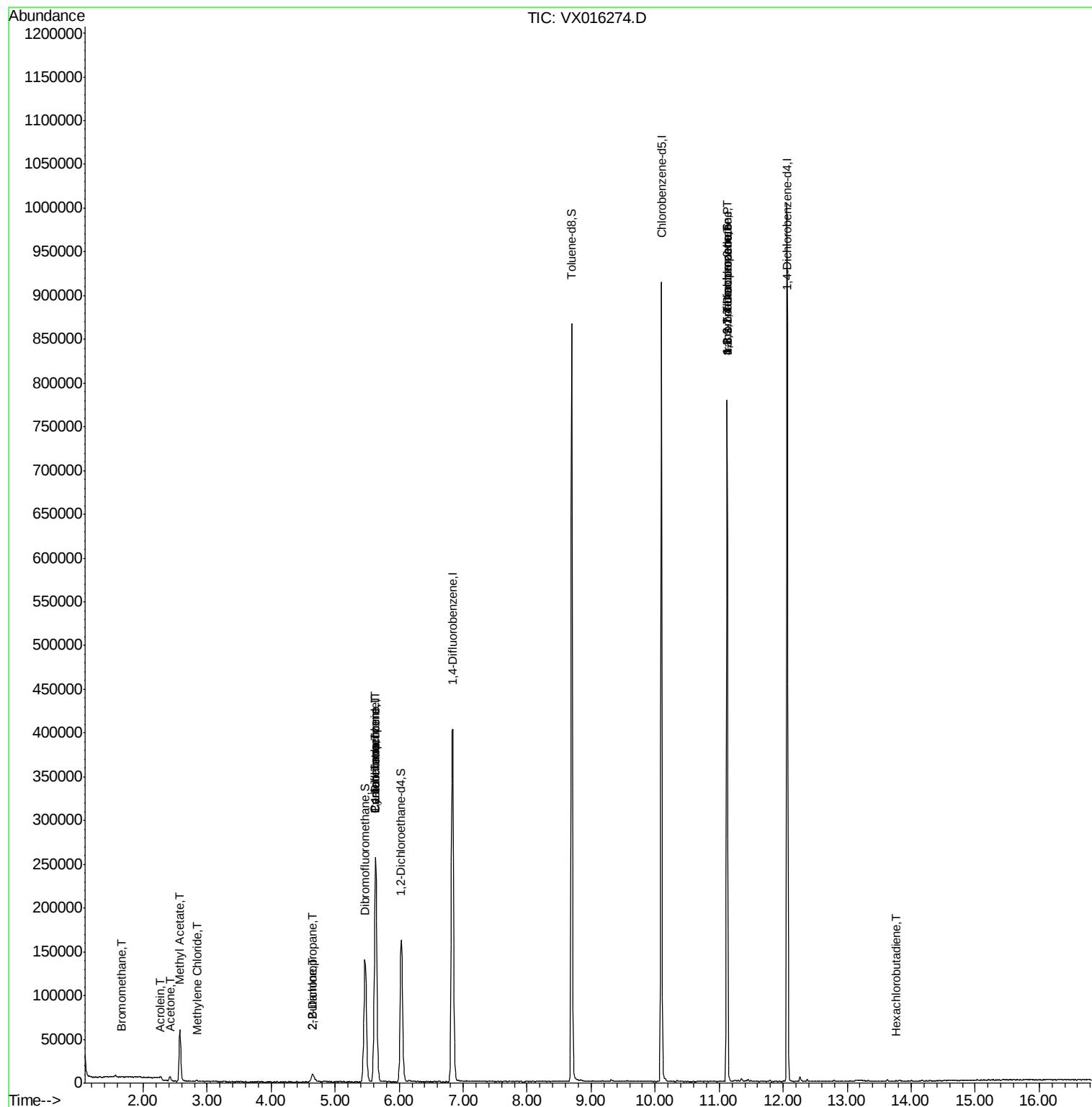
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.65  | 94   | 400      | 0.238     | ug/l # | 56     |
| 13) Acrolein                   | 2.27  | 56   | 564      | 1.064     | ug/l # | 51     |
| 16) Acetone                    | 2.42  | 43   | 5447     | 3.643     | ug/l   | 98     |
| 17) Carbon Disulfide           | 2.55  | 76   | 1487     | Below Cal | #      | 88     |
| 18) Methyl Acetate             | 2.57  | 43   | 14010    | 3.811     | ug/l # | 50     |
| 20) Methylene Chloride         | 2.84  | 84   | 850      | 0.276     | ug/l   | 87     |
| 25) 2-Butanone                 | 4.65  | 43   | 1067     | 0.443     | ug/l # | 48     |
| 26) 2,2-Dichloropropane        | 4.65  | 77   | 988      | 0.211     | ug/l # | 53     |
| 31) Cyclohexane                | 5.63  | 56   | 4889     | 1.050     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.63  | 75   | 18886    | 4.546     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.63  | 117  | 24693    | 5.848     | ug/l # | 14     |
| 75) 1,1,2,2-Tetrachloroethane  | 11.12 | 83   | 101      | 2.085     | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 100667   | 21.662    | ug/l # | 35     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 100667   | 51.622    | ug/l # | 13     |
| 94) Hexachlorobutadiene        | 13.77 | 225  | 172      | 0.604     | ug/l # | 47     |

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X050420W.M  
Quant Title : SW846 8260  
QLast Update : Wed May 06 06:43:32 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX016274.D

Acq: 15 May 2020 12:46

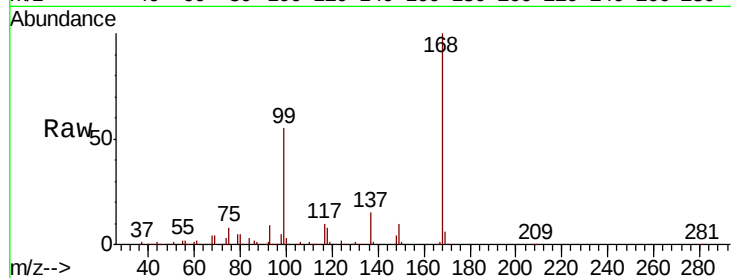
Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion:168 Resp: 254654

Ion Ratio Lower Upper

168 100

99 54.7 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

100000

80000

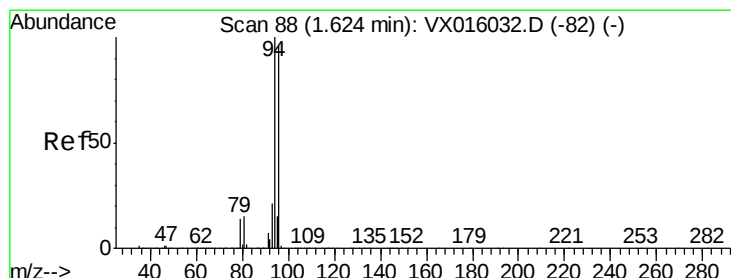
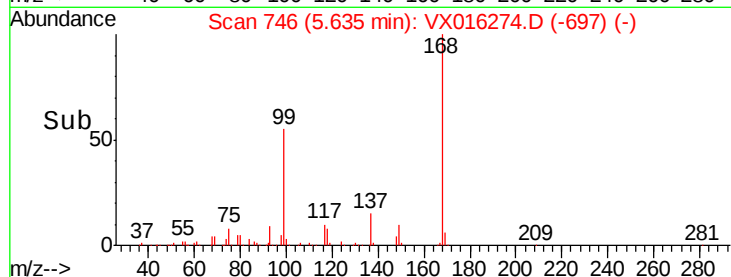
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.238 ug/l

RT: 1.65 min Scan# 93

Delta R.T. 0.03 min

Lab File: VX016274.D

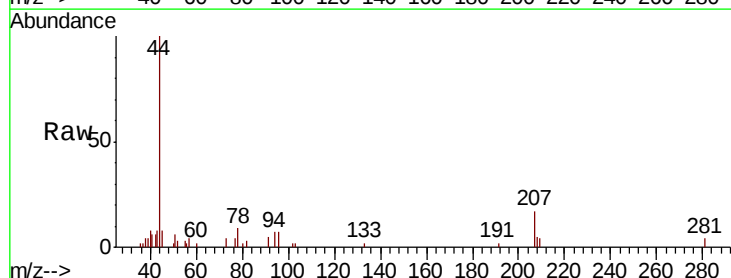
Acq: 15 May 2020 12:46

Tgt Ion: 94 Resp: 400

Ion Ratio Lower Upper

94 100

96 52.7 76.9 115.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

250

200

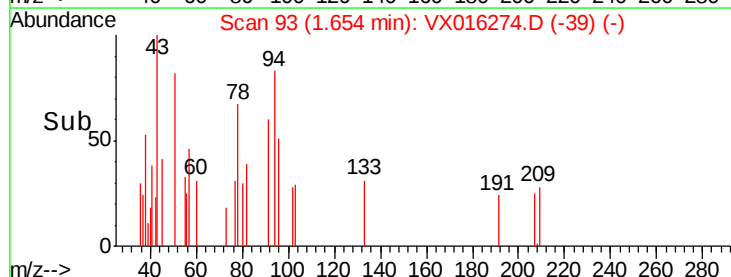
150

100

50

0

Time-->

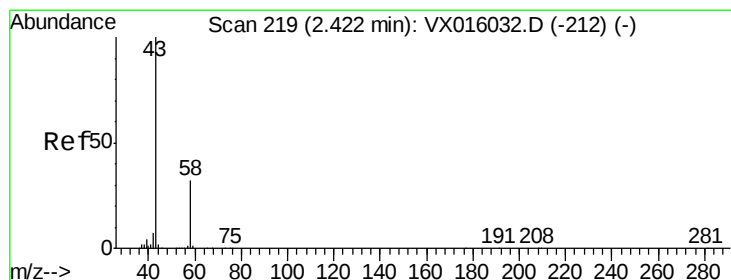
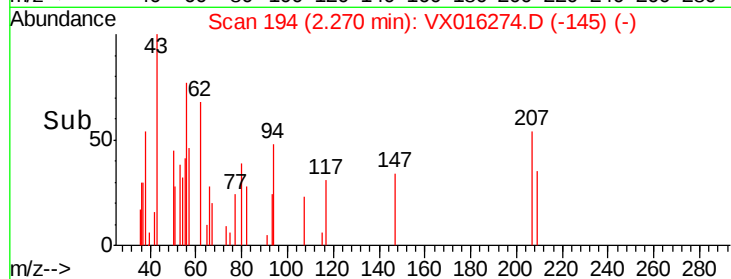
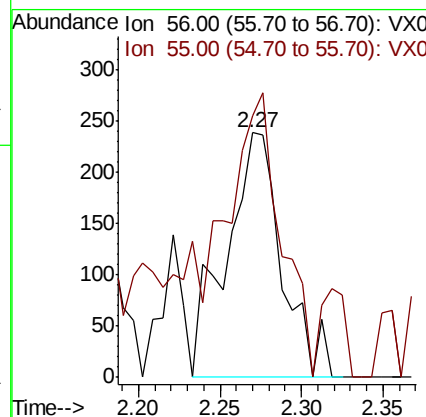
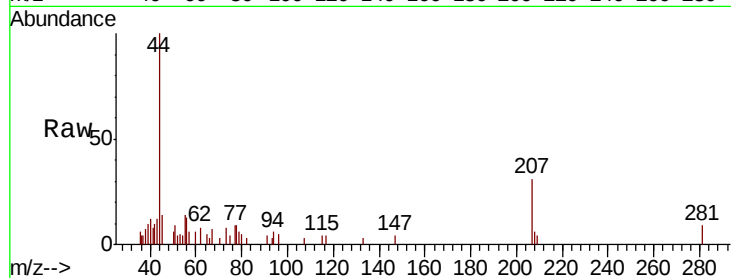




#13  
Acrolein  
Concen: 1.064 ug/l  
RT: 2.27 min Scan# 194  
Delta R.T. -0.00 min  
Lab File: VX016274.D  
Acq: 15 May 2020 12:46

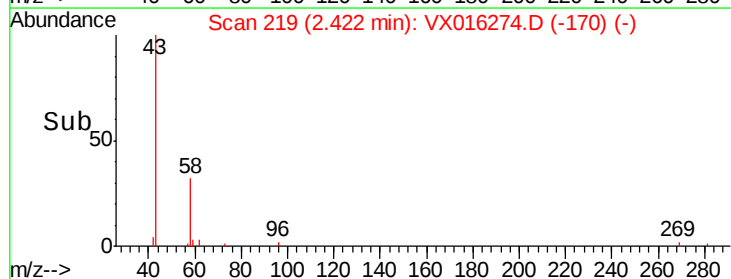
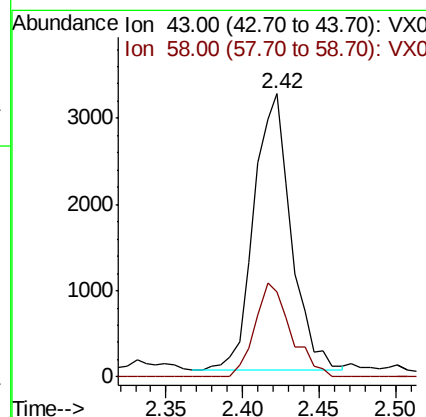
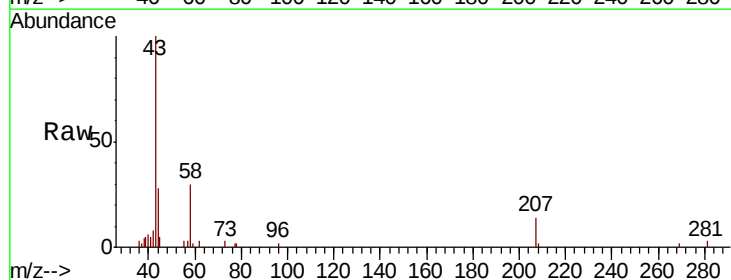
Instrument :  
MSVOA\_X  
ClientSampled :

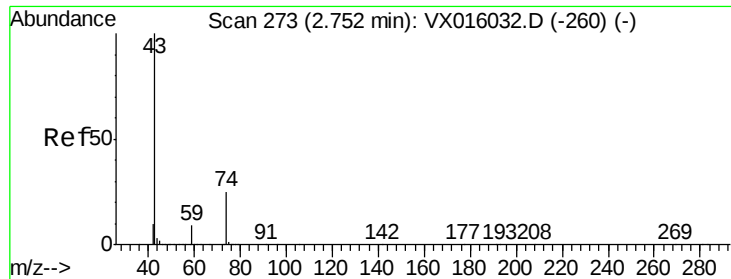
Tot Ion: 56 Resp: 564  
Ion Ratio Lower Upper  
56 100  
55 110.6 56.5 84.7#



#16  
Acetone  
Concen: 3.643 ug/l  
RT: 2.42 min Scan# 219  
Delta R.T. -0.00 min  
Lab File: VX016274.D  
Acq: 15 May 2020 12:46

Tgt Ion: 43 Resp: 5447  
Ion Ratio Lower Upper  
43 100  
58 30.6 25.4 38.0

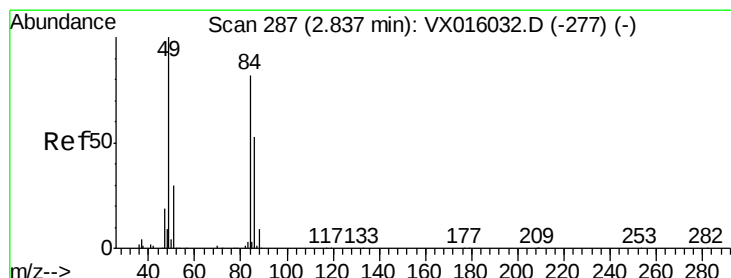
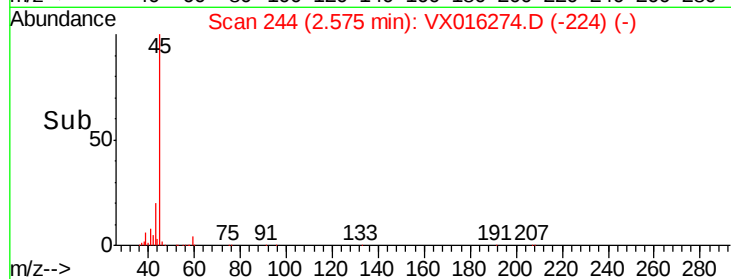
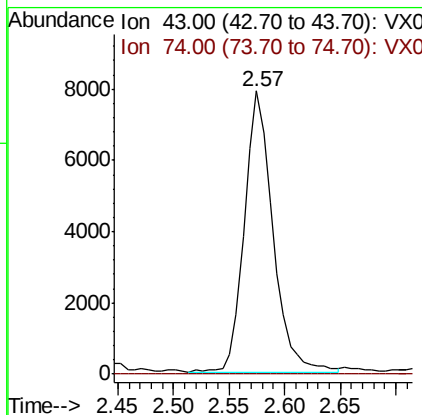
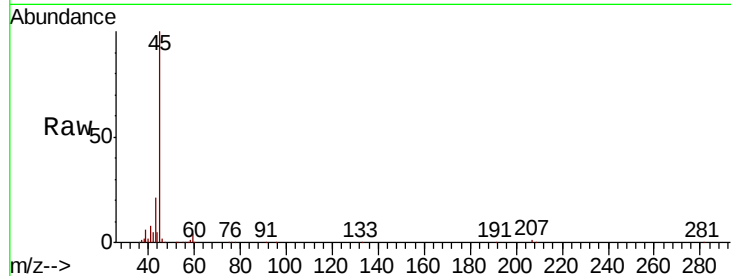




#18  
Methyl Acetate  
Concen: 3.811 ug/l  
RT: 2.57 min Scan# 244  
Delta R.T. -0.18 min  
Lab File: VX016274.D  
Acq: 15 May 2020 12:46

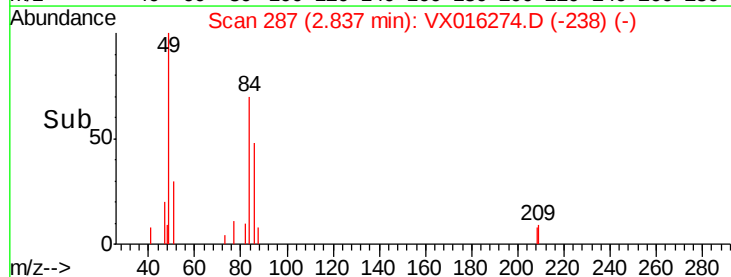
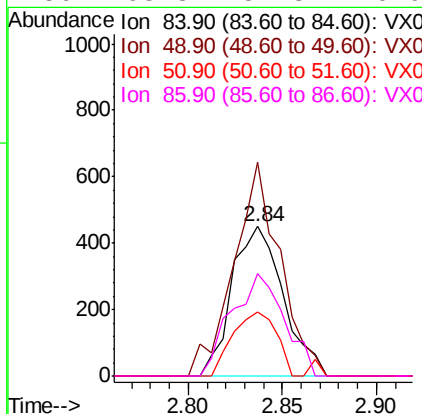
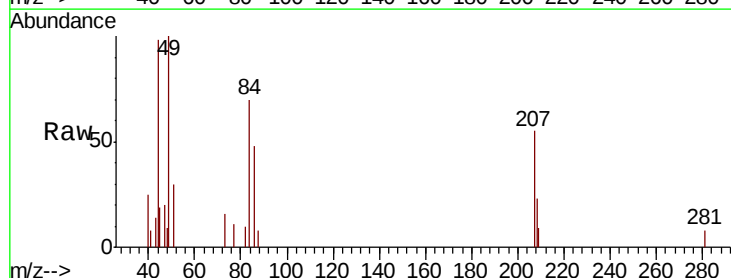
Instrument :  
MSVOA\_X  
ClientSampled :

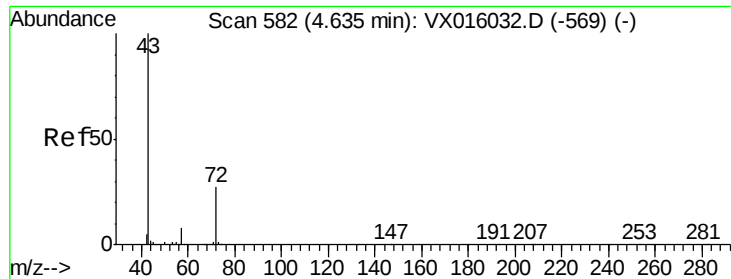
Tot Ion: 43 Resp: 14010  
Ion Ratio Lower Upper  
43 100  
74 0.0 20.2 30.2#



#20  
Methylene Chloride  
Concen: 0.276 ug/l  
RT: 2.84 min Scan# 287  
Delta R.T. -0.00 min  
Lab File: VX016274.D  
Acq: 15 May 2020 12:46

Tgt Ion: 84 Resp: 850  
Ion Ratio Lower Upper  
84 100  
49 142.6 97.3 145.9  
51 42.6 29.3 43.9  
86 68.3 51.3 76.9

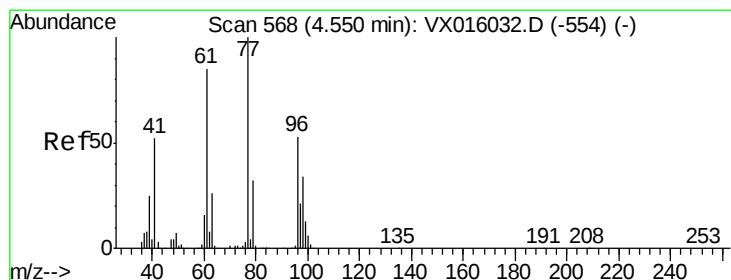
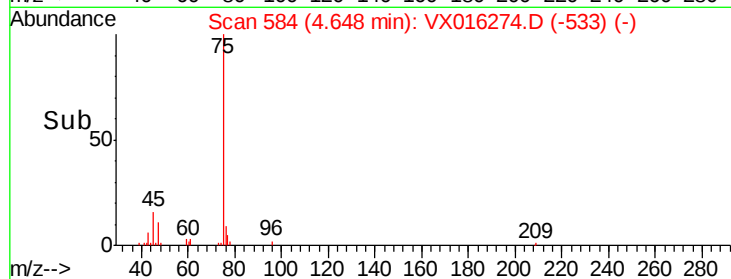
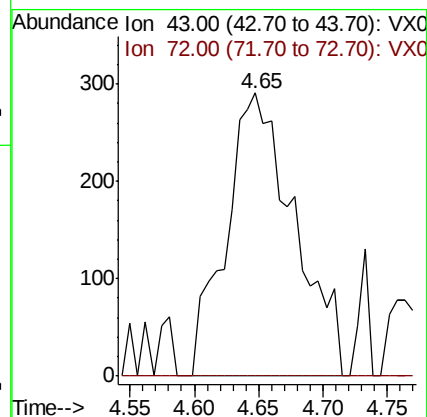
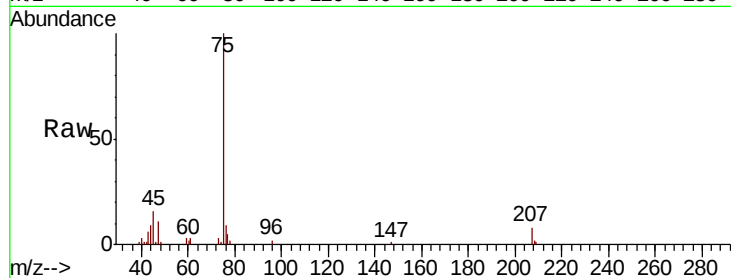




#25  
2-Butanone  
Concen: 0.443 ug/l  
RT: 4.65 min Scan# 584  
Delta R.T. 0.01 min  
Lab File: VX016274.D  
Acq: 15 May 2020 12:46

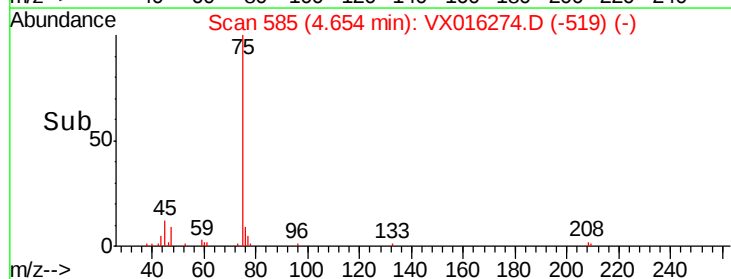
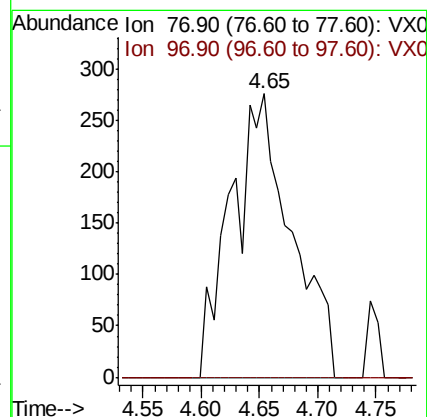
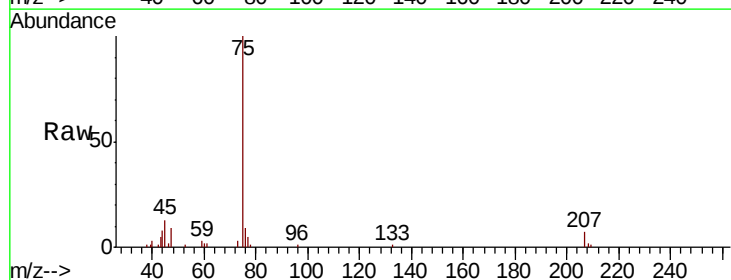
Instrument :  
MSVOA\_X  
ClientSampleId :

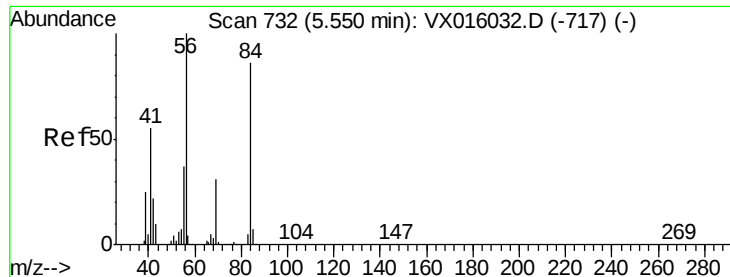
Tot Ion: 43 Resp: 1067  
Ion Ratio Lower Upper  
43 100  
72 0.0 21.8 32.8#



#26  
2,2-Dichloropropane  
Concen: 0.211 ug/l  
RT: 4.65 min Scan# 585  
Delta R.T. 0.10 min  
Lab File: VX016274.D  
Acq: 15 May 2020 12:46

Tgt Ion: 77 Resp: 988  
Ion Ratio Lower Upper  
77 100  
97 0.0 11.2 33.6#

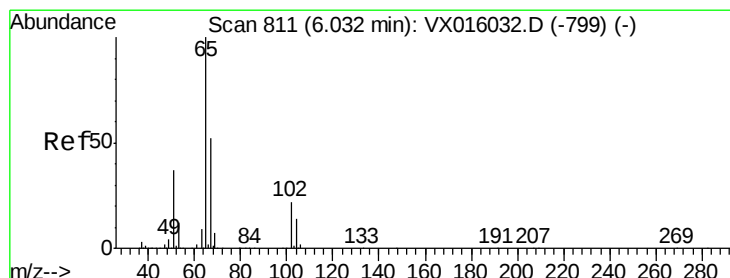
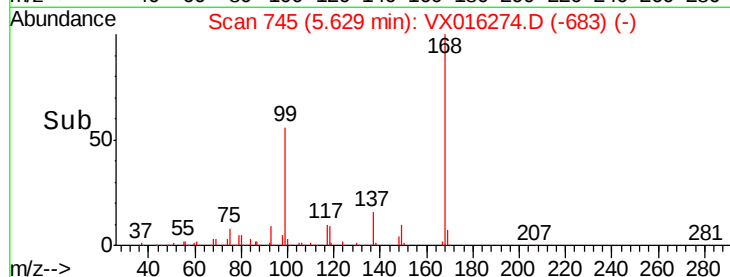
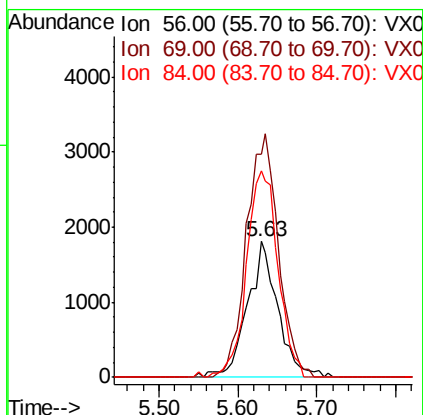
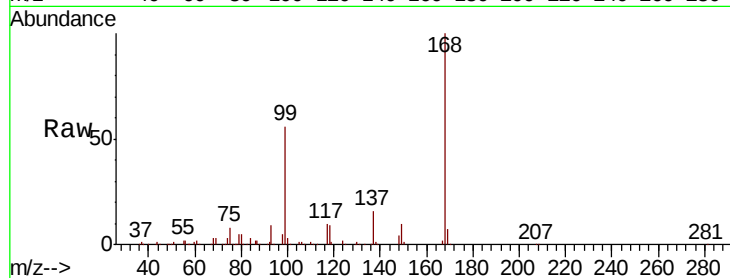




#31  
Cyclohexane  
Concen: 1.050 ug/l  
RT: 5.63 min Scan# 745  
Delta R.T. 0.08 min  
Lab File: VX016274.D  
Acq: 15 May 2020 12:46

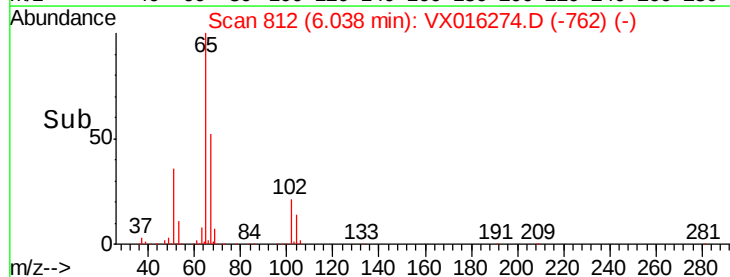
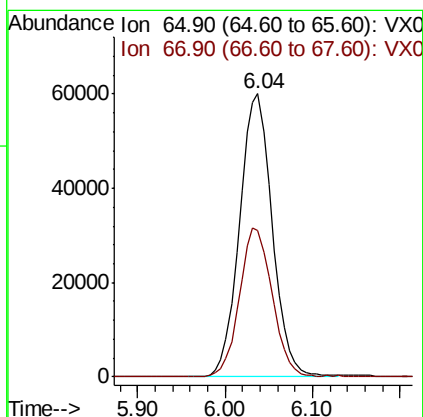
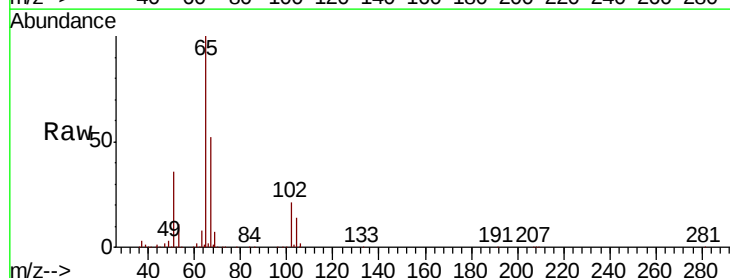
Instrument :  
MSVOA\_X  
ClientSampleId :

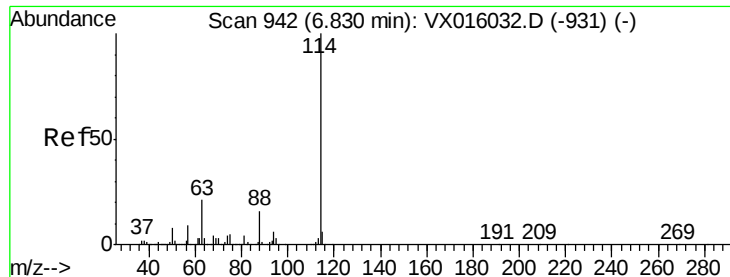
Tot Ion: 56 Resp: 4889  
Ion Ratio Lower Upper  
56 100  
69 164.2 25.0 37.6#  
84 152.0 69.0 103.6#



#33  
1,2-Dichloroethane-d4  
Concen: 46.580 ug/l  
RT: 6.04 min Scan# 812  
Delta R.T. 0.01 min  
Lab File: VX016274.D  
Acq: 15 May 2020 12:46

Tgt Ion: 65 Resp: 156089  
Ion Ratio Lower Upper  
65 100  
67 52.7 0.0 104.8

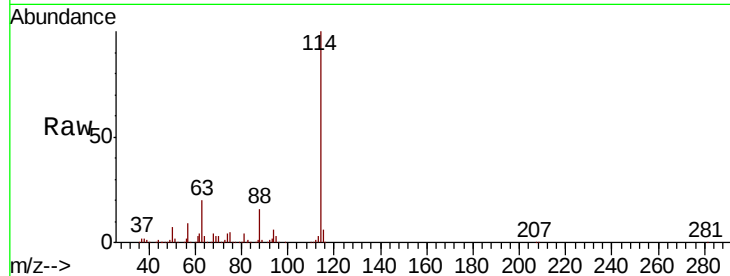




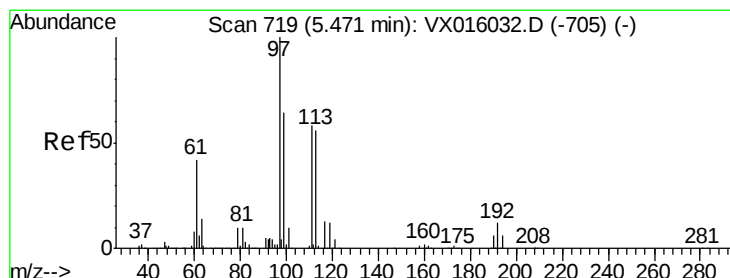
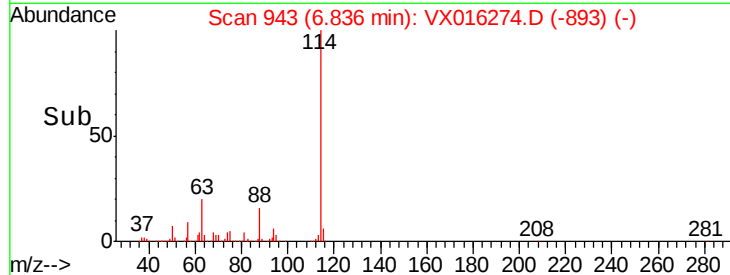
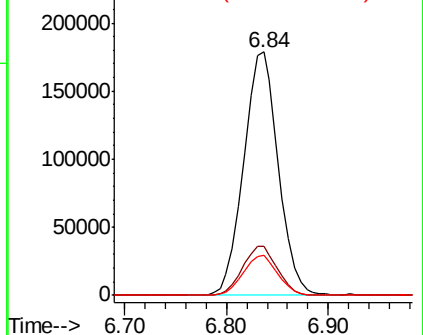
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.84 min Scan# 943  
 Delta R.T. 0.01 min  
 Lab File: VX016274.D  
 Acq: 15 May 2020 12:46

Instrument :  
 MSVOA\_X  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 20.0  | 0.0   | 42.8  |
| 88      | 16.2  | 0.0   | 31.4  |

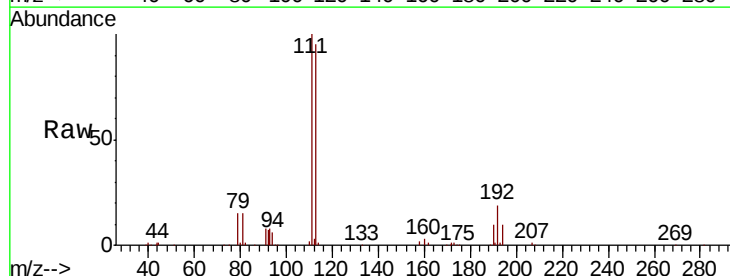


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VX0  
 Ion 87.90 (87.60 to 88.60): VX0

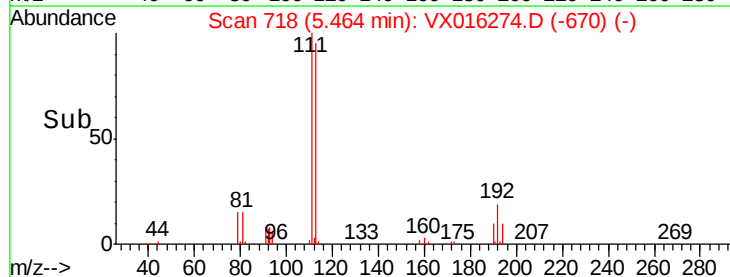
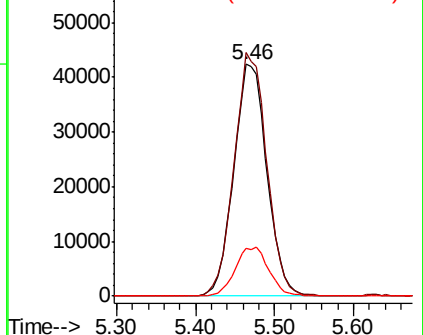


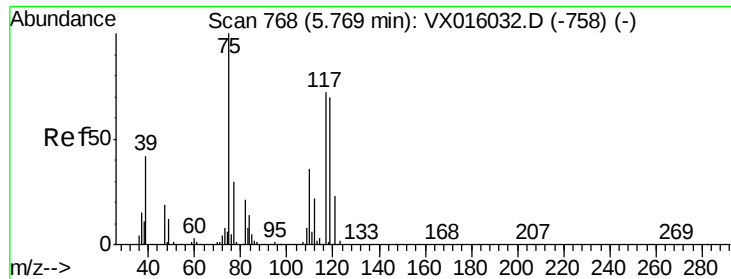
#35  
 Dibromofluoromethane  
 Concen: 46.306 ug/l  
 RT: 5.46 min Scan# 718  
 Delta R.T. -0.01 min  
 Lab File: VX016274.D  
 Acq: 15 May 2020 12:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.3 | 81.6  | 122.4 |
| 192     | 21.4  | 17.0  | 25.4  |



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: 4.546 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016274.D

Acq: 15 May 2020 12:46

Instrument :

MSVOA\_X

ClientSampleId :

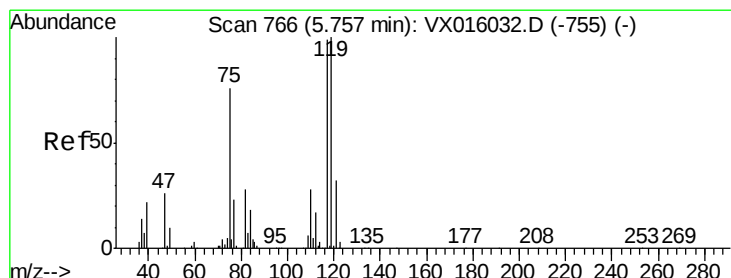
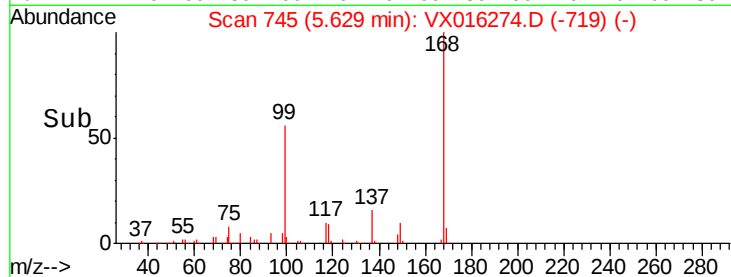
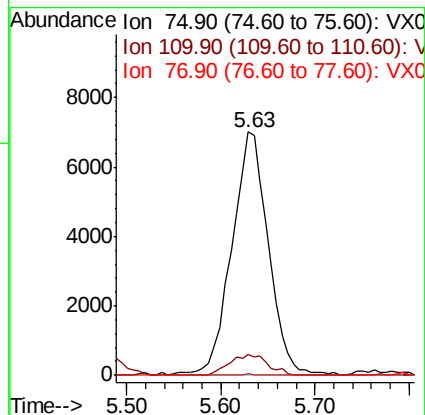
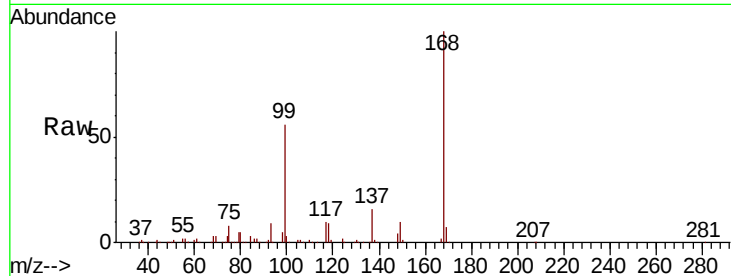
Tot Ion: 75 Resp: 18886

Ion Ratio Lower Upper

75 100

110 9.0 18.1 54.1#

77 0.1 25.0 37.6#



#38

Carbon Tetrachloride

Concen: 5.848 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX016274.D

Acq: 15 May 2020 12:46

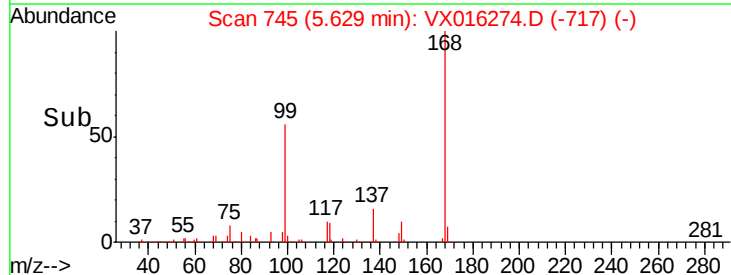
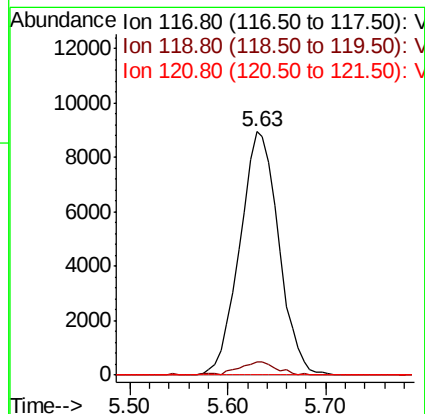
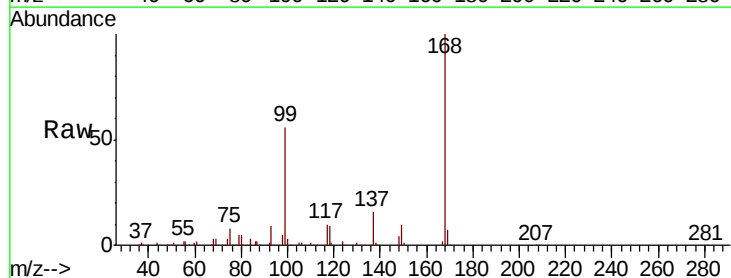
Tgt Ion: 117 Resp: 24693

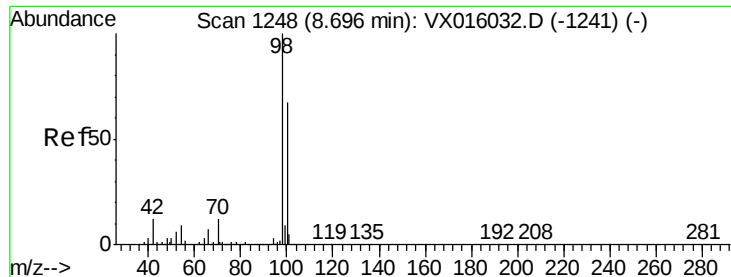
Ion Ratio Lower Upper

117 100

119 5.2 80.3 120.5#

121 0.0 25.7 38.5#





#50

Toluene-d8

Concen: 50.339 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016274.D

Acq: 15 May 2020 12:46

Instrument :

MSVOA\_X

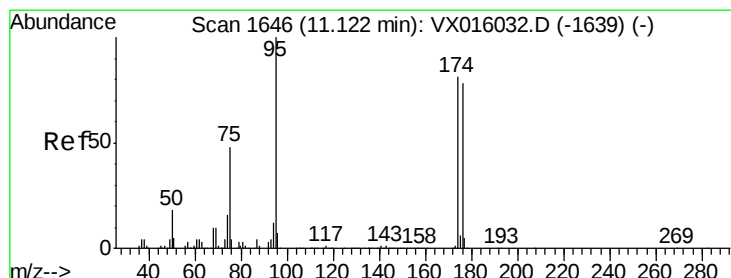
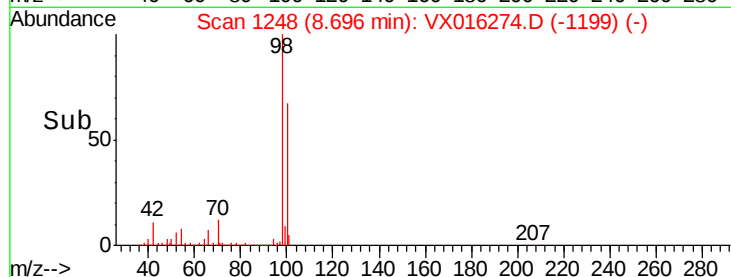
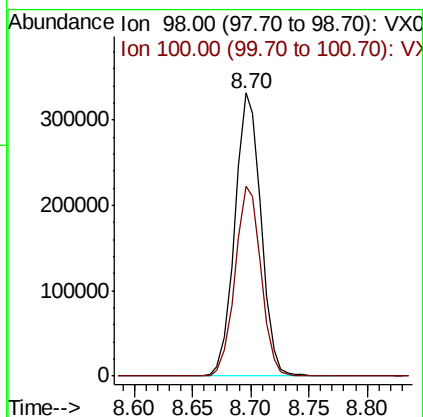
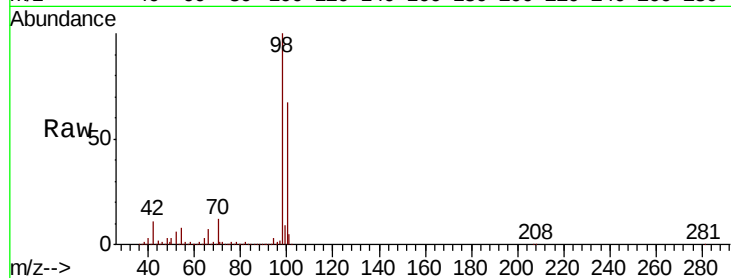
ClientSampleId :

Tot Ion: 98 Resp: 518570

Ion Ratio Lower Upper

98 100

100 66.9 53.7 80.5



#62

4-Bromofluorobenzene

Concen: 52.445 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016274.D

Acq: 15 May 2020 12:46

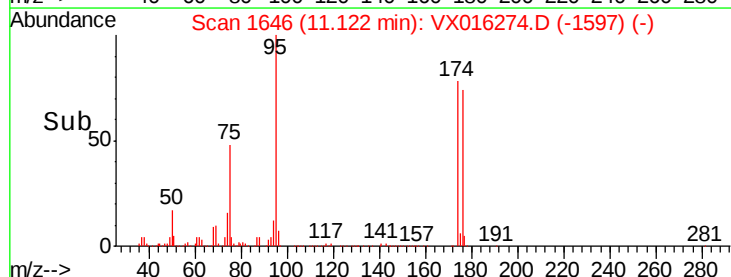
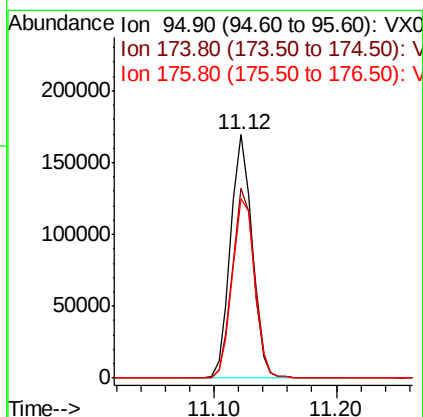
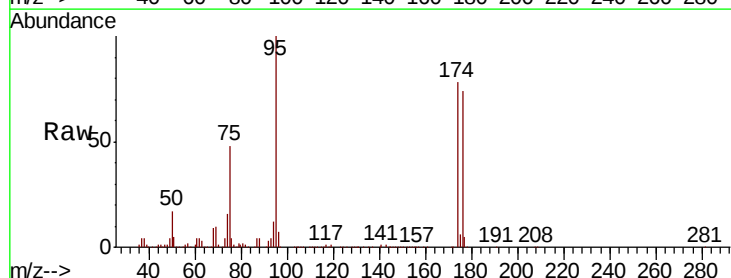
Tgt Ion: 95 Resp: 205491

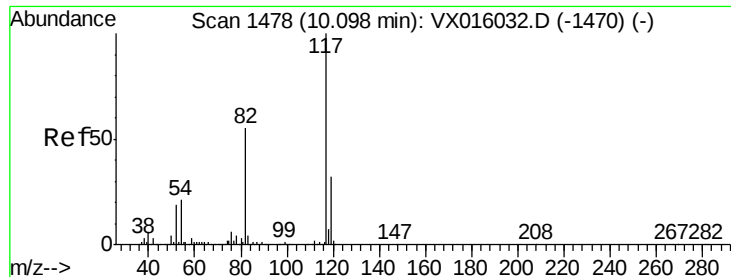
Ion Ratio Lower Upper

95 100

174 80.4 0.0 159.4

176 76.7 0.0 157.6

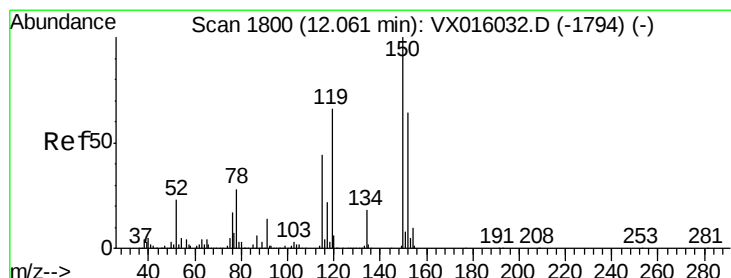
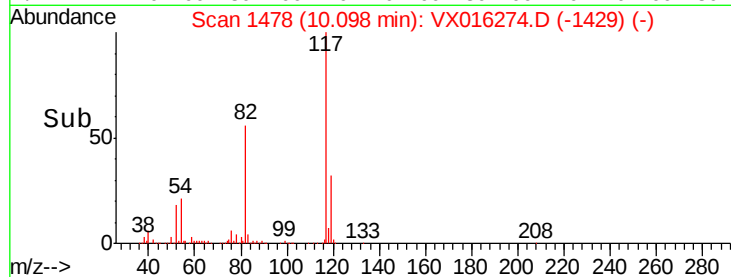
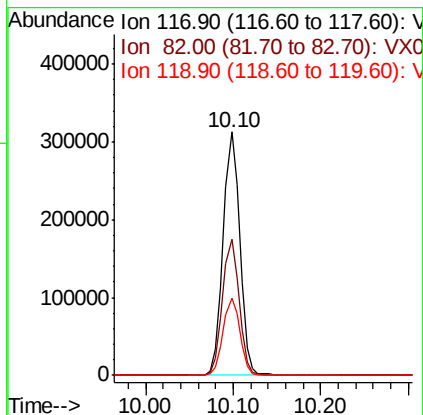
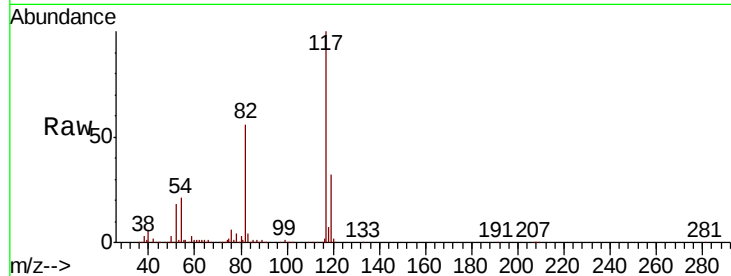




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.10 min Scan# 1478  
Delta R.T. -0.00 min  
Lab File: VX016274.D  
Acq: 15 May 2020 12:46

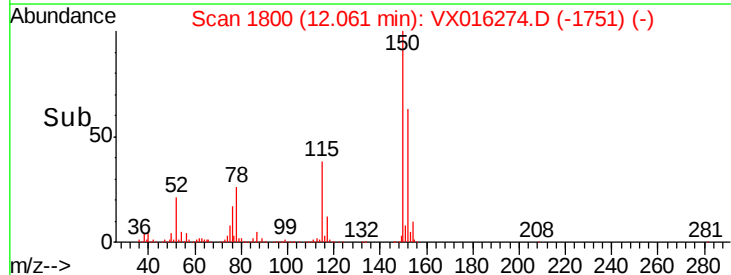
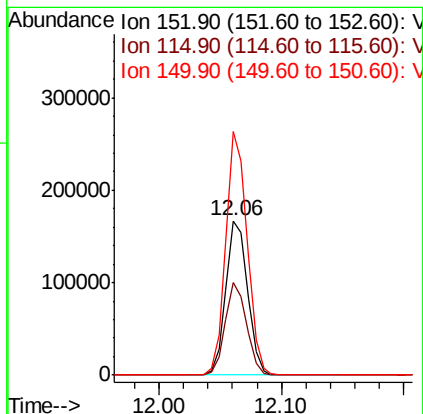
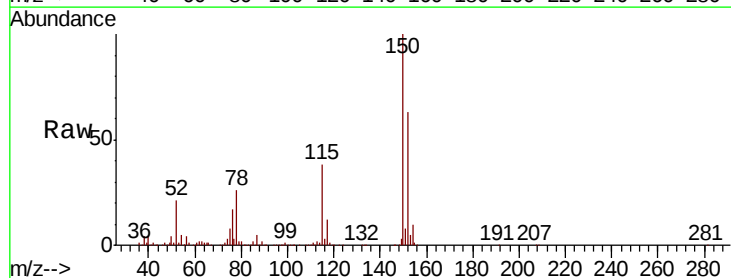
Instrument :  
MSVOA\_X  
ClientSampleId :

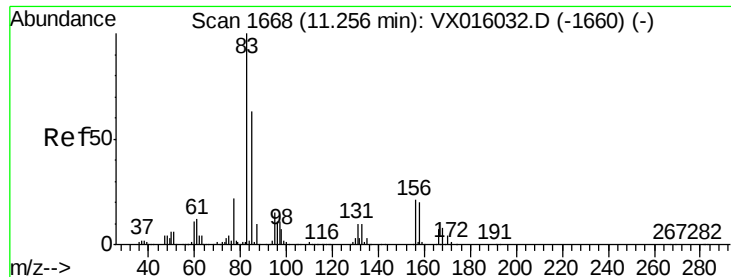
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 56.0  | 44.4  | 66.6  |
| 119     | 31.9  | 25.5  | 38.3  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.06 min Scan# 1800  
Delta R.T. -0.00 min  
Lab File: VX016274.D  
Acq: 15 May 2020 12:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 59.1  | 41.3  | 124.1 |
| 150     | 154.7 | 0.0   | 352.2 |





#75

1,1,2,2-Tetrachloroethane

Concen: 2.085 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.13 min

Lab File: VX016274.D

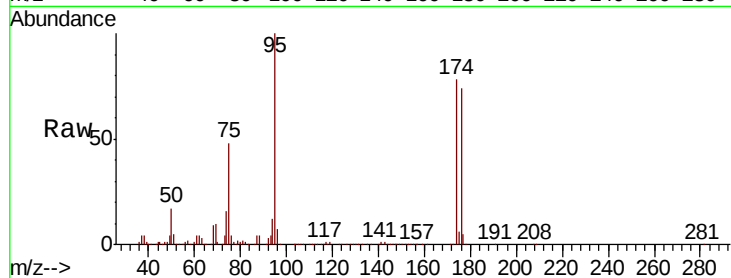
Acq: 15 May 2020 12:46

Instrument :

MSVOA\_X

ClientSampleId :

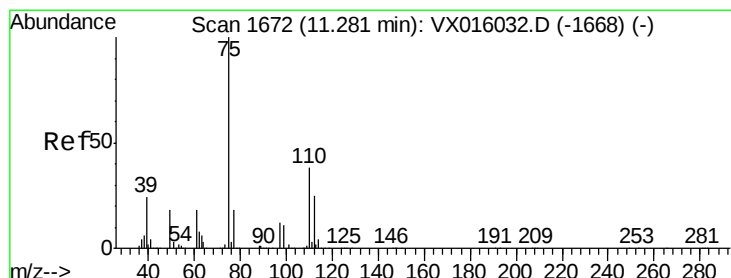
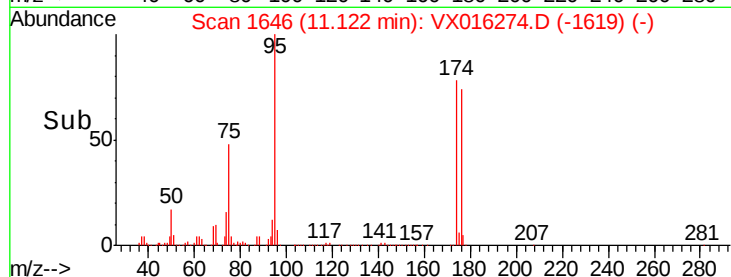
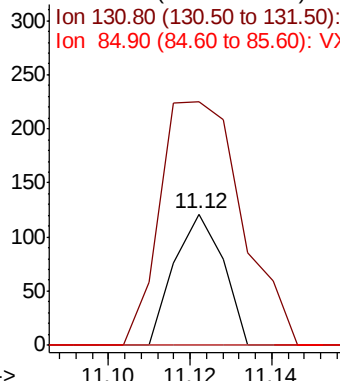
| Tot Ion   | 83    | Resp | 101   |
|-----------|-------|------|-------|
| Ion Ratio | 100   |      |       |
| Lower     |       |      |       |
| Upper     |       |      |       |
| 83        | 100   |      |       |
| 131       | 310.9 | 5.1  | 15.4# |
| 85        | 0.0   | 32.0 | 96.0# |



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 21.662 ug/l

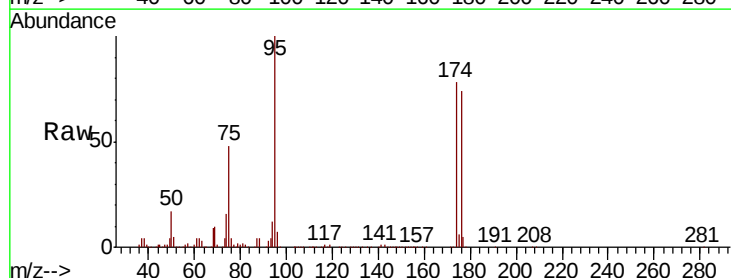
RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016274.D

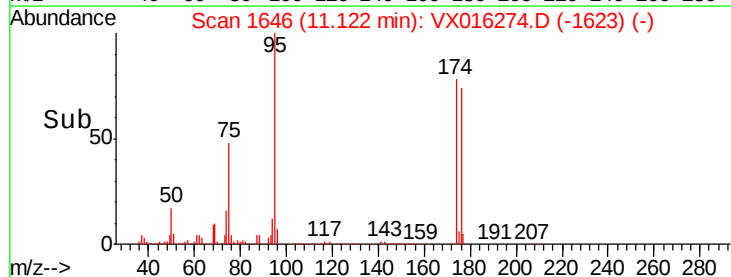
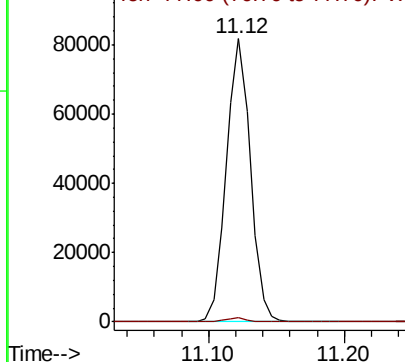
Acq: 15 May 2020 12:46

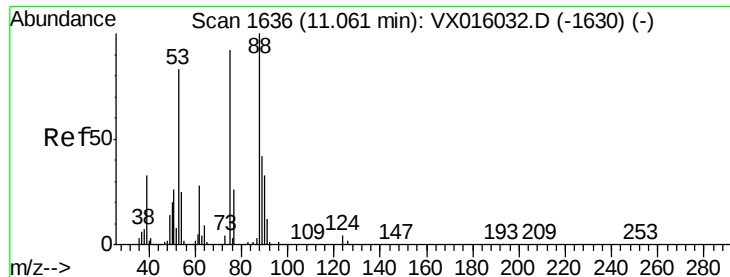
| Tgt Ion   | 75  | Resp | 100667 |
|-----------|-----|------|--------|
| Ion Ratio | 100 |      |        |
| Lower     |     |      |        |
| Upper     |     |      |        |
| 75        | 100 |      |        |
| 77        | 1.3 | 21.2 | 63.6#  |



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 51.622 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX016274.D

Acq: 15 May 2020 12:46

Instrument :

MSVOA\_X

ClientSampled :

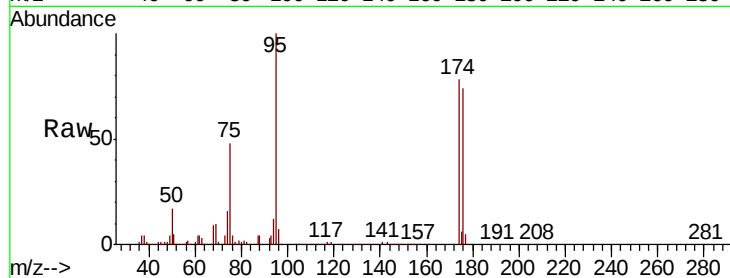
Tot Ion: 75 Resp: 100667

Ion Ratio Lower Upper

75 100

53 0.0 73.1 109.7#

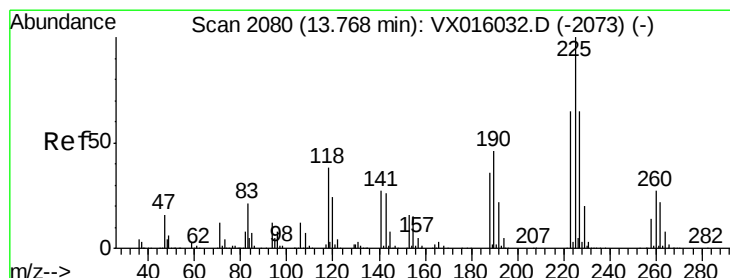
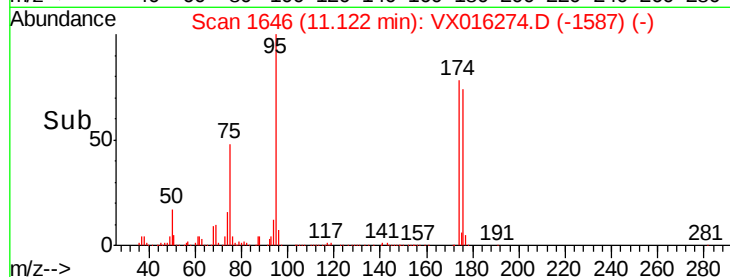
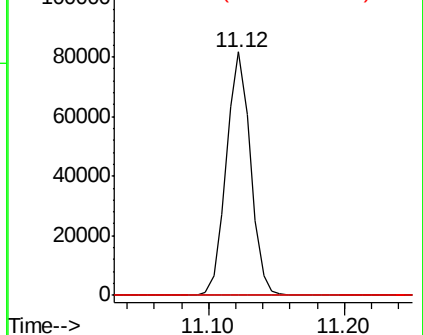
89 0.0 36.7 55.1#



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



#94

Hexachlorobutadiene

Concen: 0.604 ug/l

RT: 13.77 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX016274.D

Acq: 15 May 2020 12:46

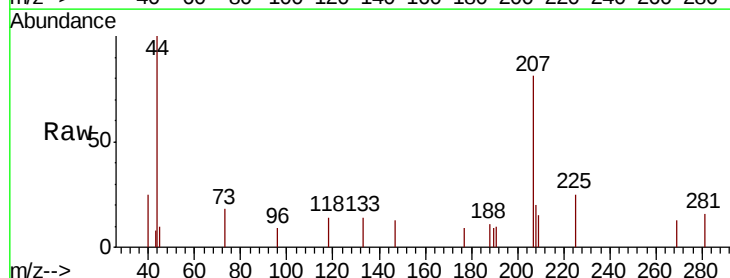
Tgt Ion: 225 Resp: 172

Ion Ratio Lower Upper

225 100

223 44.8 32.3 96.9

227 0.0 31.8 95.4#



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V

