

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX020520\  
 Data File : VX014819.D  
 Acq On : 05 Feb 2020 13:58  
 Operator : JC/SP  
 Sample : L1392-01DL 5X  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Feb 06 03:05:06 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X011520W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Wed Jan 15 12:41:12 2020  
 Response via : Initial Calibration

| Internal Standards      | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------|-------|------|----------|-------|-------|----------|
| 1) Bromochloromethane   | 5.01  | 128  | 66525    | 30.00 | ug/l  | 0.01     |
| 28) 1,4-Difluorobenzene | 6.85  | 114  | 348298   | 30.00 | ug/l  | 0.00     |
| 57) Chlorobenzene-d5    | 10.11 | 117  | 318327   | 30.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 27) 1,2-Dichloroethane-d4 | 6.05   | 65    | 144493   | 30.90    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 50 - 169 | Recovery | =    | 103.00% |
| 60) 4-Bromofluorobenzene  | 11.13  | 95    | 144683   | 28.40    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 56 - 143 | Recovery | =    | 94.67%  |
| 63) Toluene-d8            | 8.71   | 98    | 417804   | 29.06    | ug/l | 0.00    |
| Spiked Amount             | 30.000 | Range | 66 - 137 | Recovery | =    | 96.87%  |

## Target Compounds

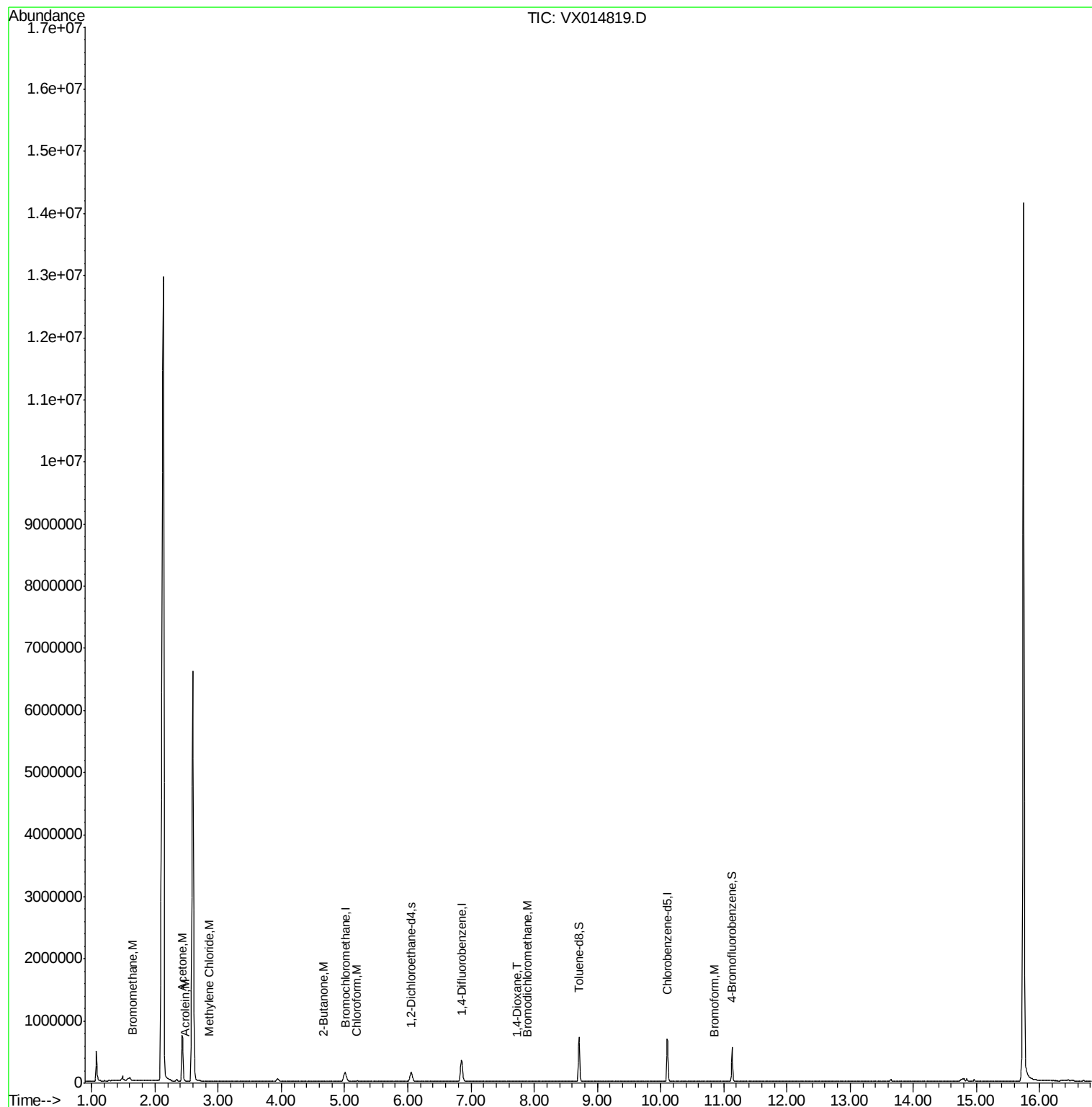
|                          |       |     |        |              | Ovalue |
|--------------------------|-------|-----|--------|--------------|--------|
| 5) Bromomethane          | 1.64  | 94  | 1420   | 0.403 ug/l   | 88     |
| 13) Acrolein             | 2.48  | 56  | 146    | 0.209 ug/l   | 90     |
| 15) Acetone              | 2.43  | 58  | 237161 | 310.770 ug/l | 84     |
| 18) Methylene Chloride   | 2.86  | 84  | 2205   | 0.512 ug/l # | 48     |
| 25) Chloroform           | 5.20  | 83  | 11089  | 1.563 ug/l   | 87     |
| 30) 2-Butanone           | 4.66  | 43  | 1945   | 0.601 ug/l # | 78     |
| 41) Bromodichloromethane | 7.89  | 83  | 1138   | 0.220 ug/l # | 93     |
| 45) 1,4-Dioxane          | 7.72  | 88  | 304    | 3.216 ug/l # | 42     |
| 56) Bromoform            | 10.85 | 173 | 2319   | 0.733 ug/l # | 90     |

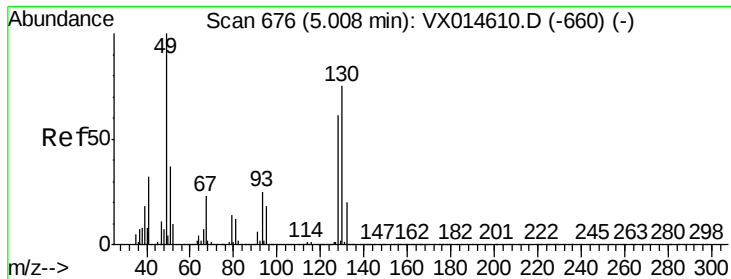
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 06 03:05:06 2020  
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X011520W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Wed Jan 15 12:41:12 2020  
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.01 min Scan# 677

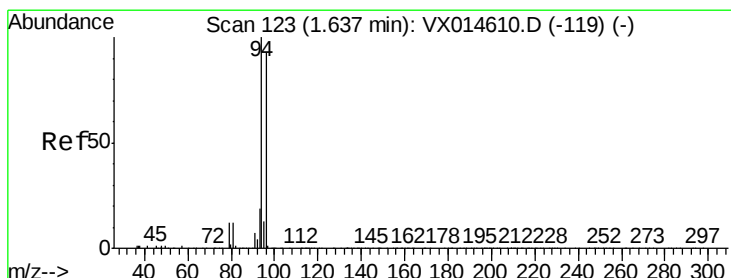
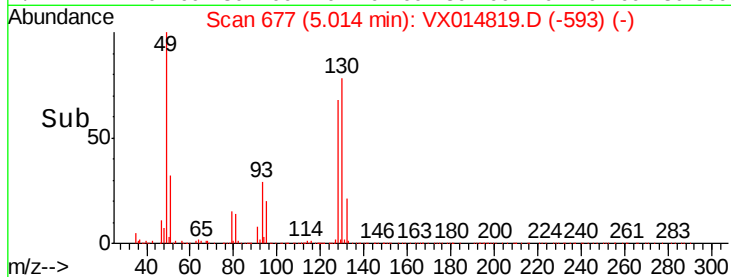
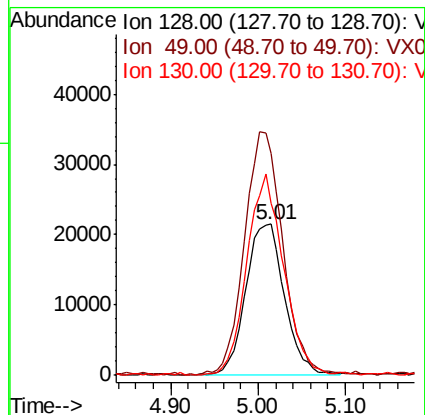
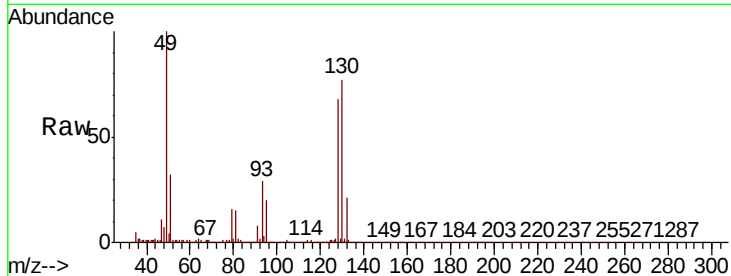
Delta R.T. 0.01 min

Lab File: VX014819.D

Acq: 05 Feb 2020 13:58

Instrument :  
MSVOA\_X  
ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 128   | Resp: | 66525 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 49       | 156.0 | 0.0   | 405.0 |
| 130      | 126.2 | 0.0   | 321.5 |



#5

Bromomethane

Concen: 0.403 ug/l

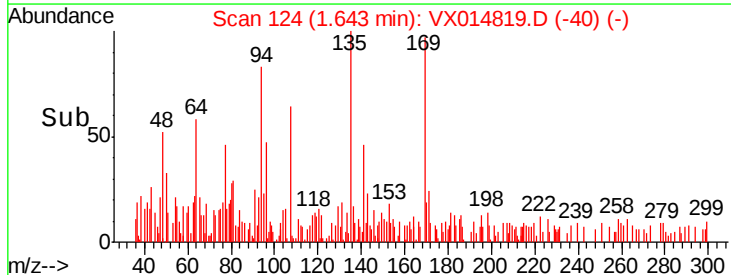
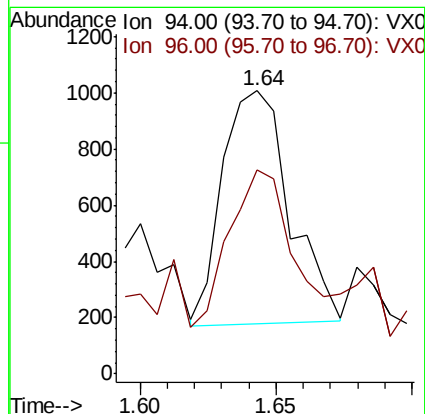
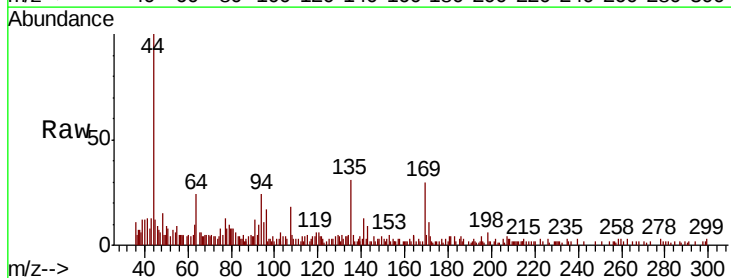
RT: 1.64 min Scan# 124

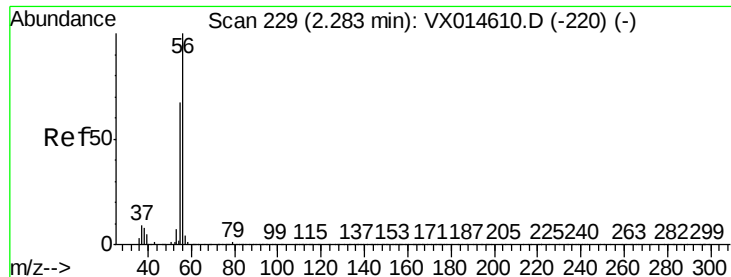
Delta R.T. 0.01 min

Lab File: VX014819.D

Acq: 05 Feb 2020 13:58

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 94    | Resp: | 1420  |
| Ion      | Ratio | Lower | Upper |
| 94       | 100   |       |       |
| 96       | 81.0  | 74.4  | 111.6 |





#13

Acrolein

Concen: 0.209 ug/l

RT: 2.48 min Scan# 261

Delta R.T. 0.20 min

Lab File: VX014819.D

Acq: 05 Feb 2020 13:58

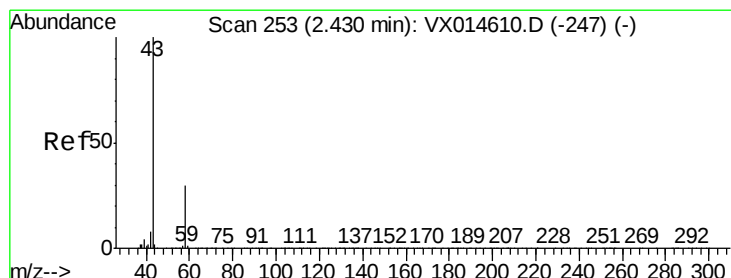
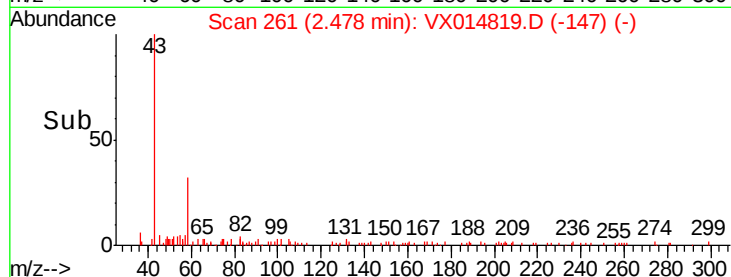
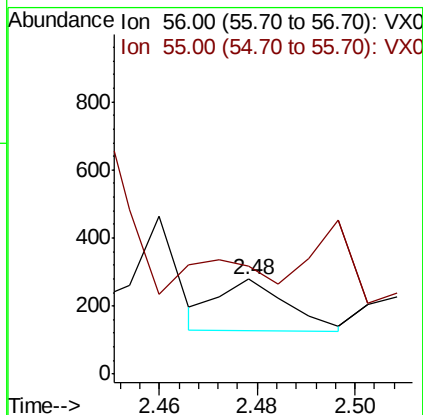
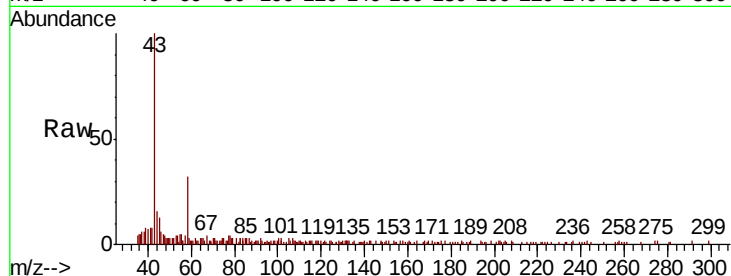
Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion: 56 Resp: 146

Ion Ratio Lower Upper

56 100

55 76.7 54.9 82.3



#15

Acetone

Concen: 310.770 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX014819.D

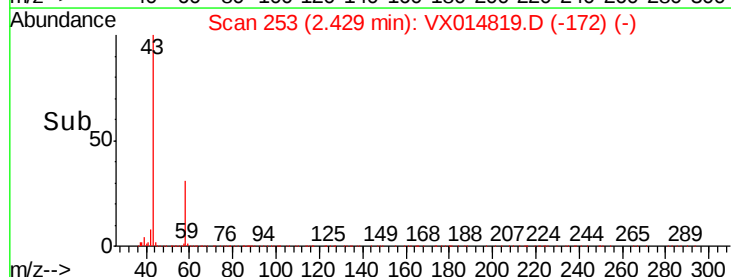
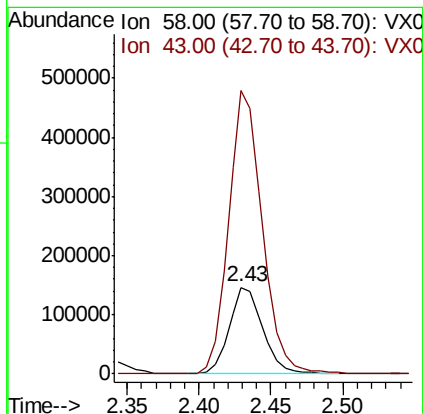
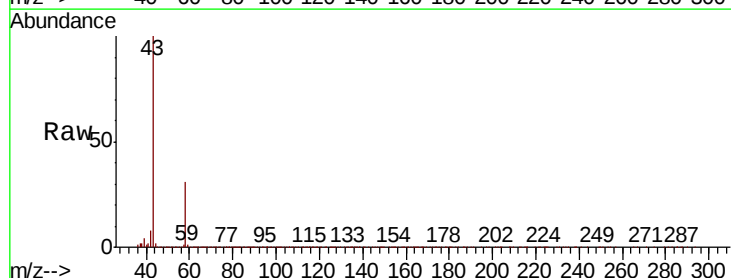
Acq: 05 Feb 2020 13:58

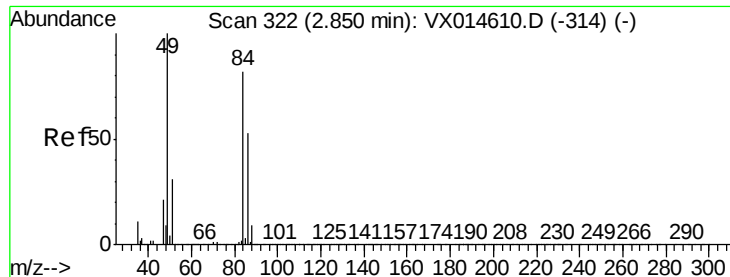
Tgt Ion: 58 Resp: 237161

Ion Ratio Lower Upper

58 100

43 326.1 236.3 354.5

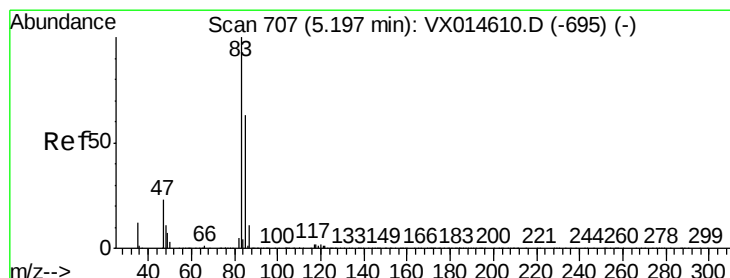
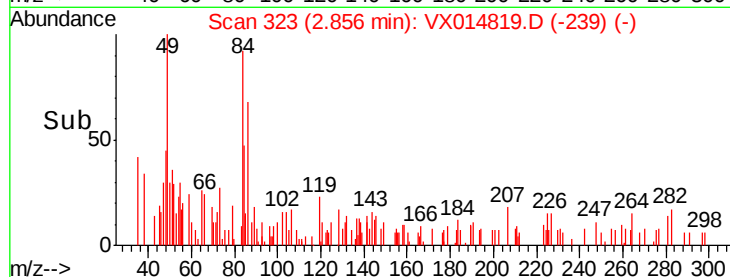
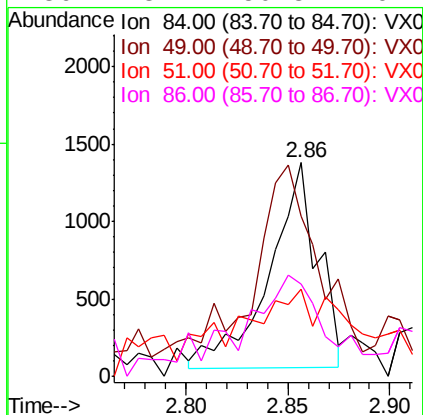
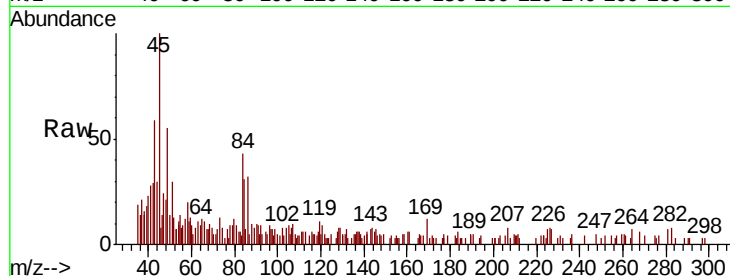




#18  
Methvlene Chloride  
Concen: 0.512 ug/l  
RT: 2.86 min Scan# 323  
Delta R.T. 0.01 min  
Lab File: VX014819.D  
Acq: 05 Feb 2020 13:58

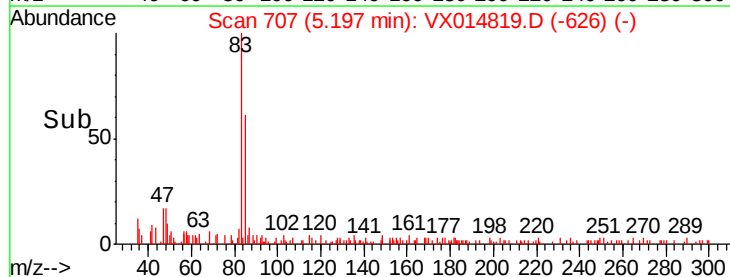
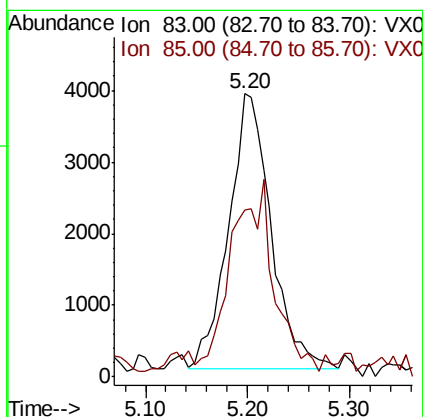
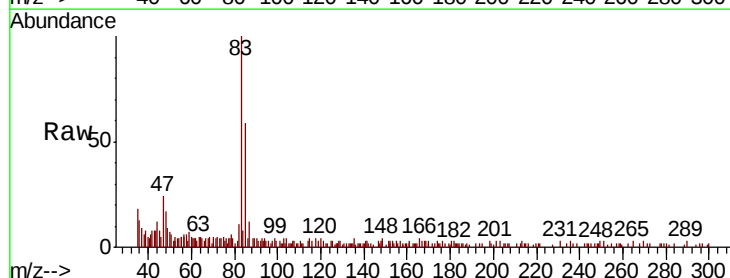
Instrument :  
MSVOA\_X  
ClientSampleId :

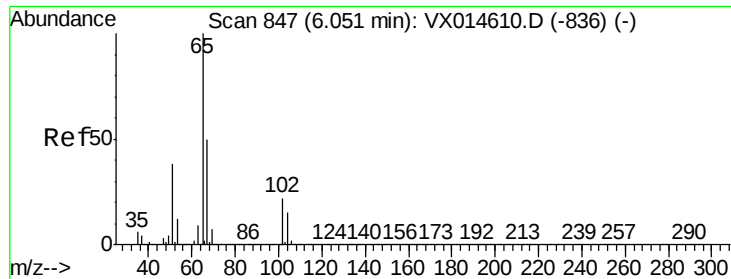
Tot Ion: 84 Resp: 2205  
Ion Ratio Lower Upper  
84 100  
49 55.5 102.2 153.2#  
51 20.6 31.4 47.0#  
86 28.2 50.8 76.2#



#25  
Chloroform  
Concen: 1.563 ug/l  
RT: 5.20 min Scan# 707  
Delta R.T. -0.01 min  
Lab File: VX014819.D  
Acq: 05 Feb 2020 13:58

Tgt Ion: 83 Resp: 11089  
Ion Ratio Lower Upper  
83 100  
85 55.9 52.7 79.1





#27

1,2-Dichloroethane-d4

Concen: 30.901 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX014819.D

Acq: 05 Feb 2020 13:58

Instrument :

MSVOA\_X

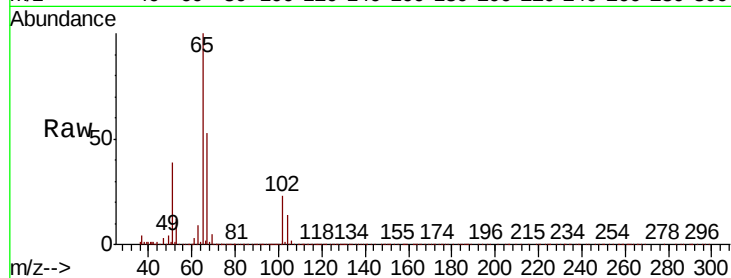
ClientSampleId :

Tot Ion: 65 Resp: 144493

Ion Ratio Lower Upper

65 100

67 51.1 43.1 64.7



Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

60000

50000

40000

30000

20000

10000

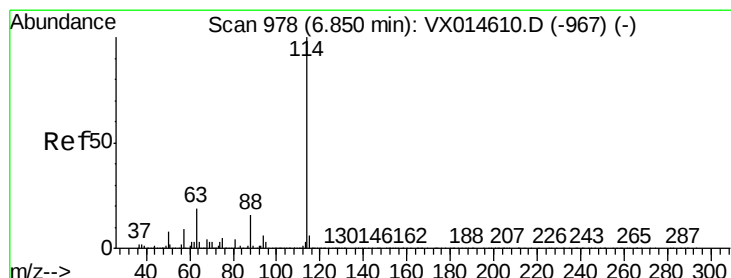
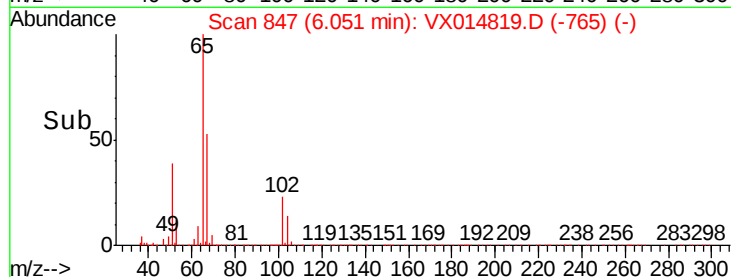
0

6.05

6.10

6.20

Time-->



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX014819.D

Acq: 05 Feb 2020 13:58

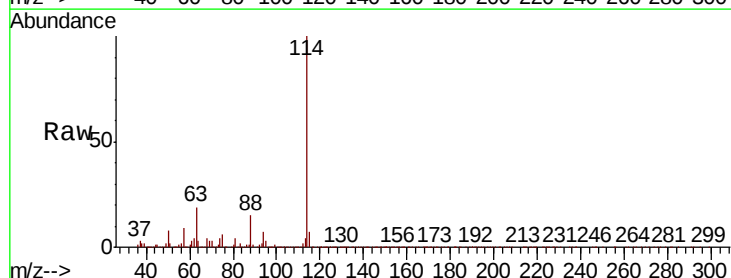
Tgt Ion: 114 Resp: 348298

Ion Ratio Lower Upper

114 100

63 20.3 16.1 24.1

88 15.4 12.5 18.7



Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0

200000

150000

100000

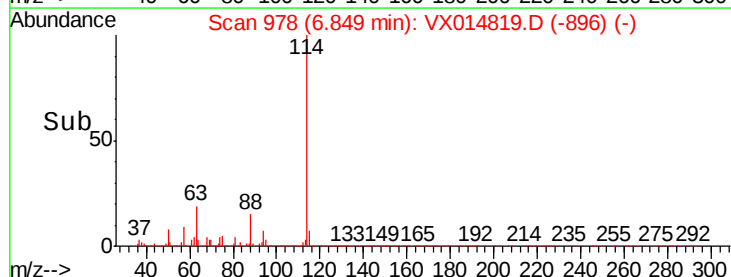
50000

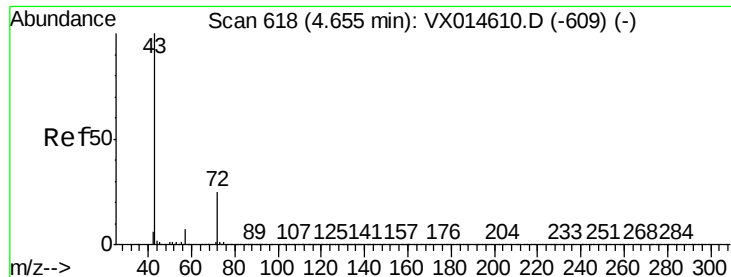
0

6.85

6.90

Time-->

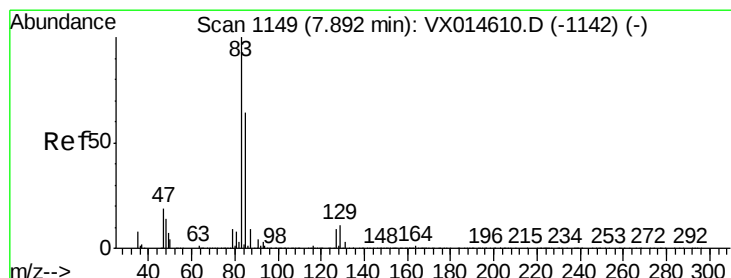
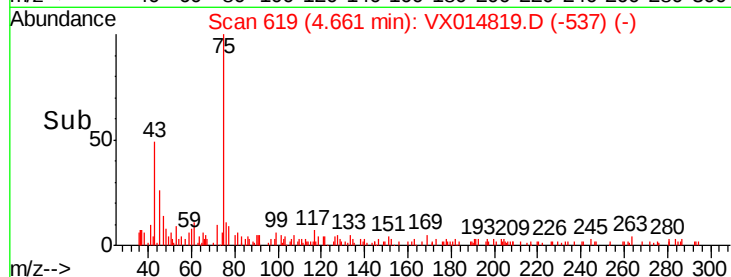
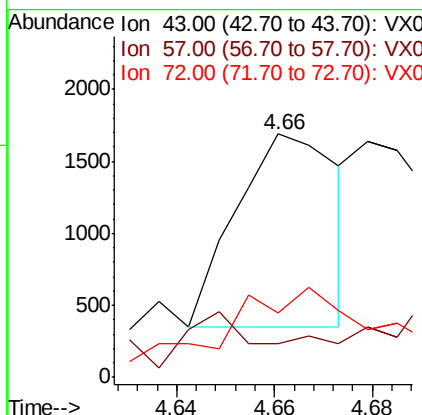
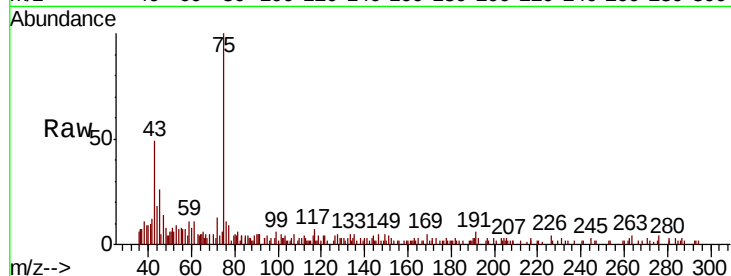




#30  
2-Butanone  
Concen: 0.601 ug/l  
RT: 4.66 min Scan# 619  
Delta R.T. -0.00 min  
Lab File: VX014819.D  
Acq: 05 Feb 2020 13:58

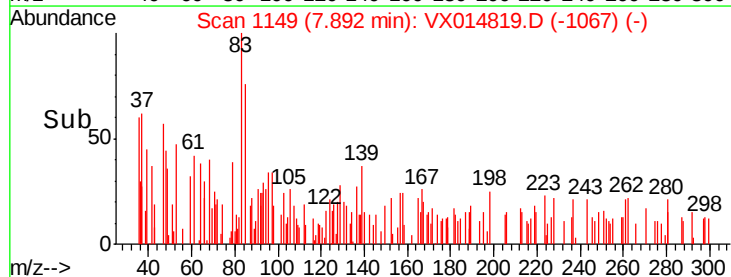
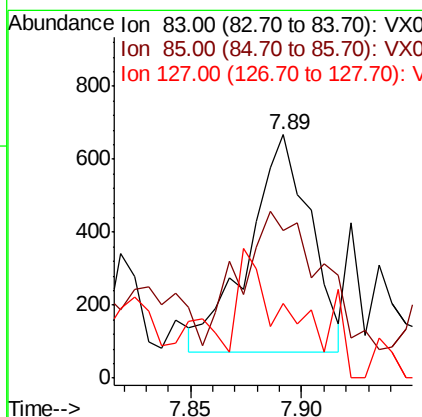
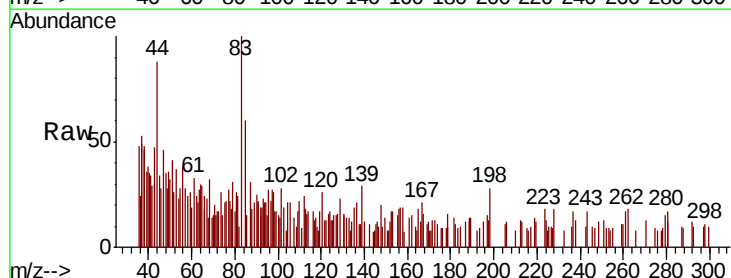
Instrument :  
MSVOA\_X  
ClientSampled :

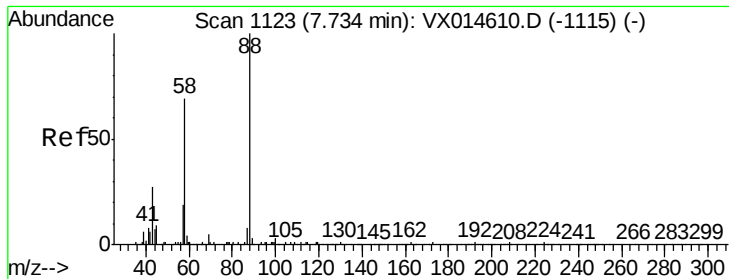
Tot Ion: 43 Resp: 1945  
Ion Ratio Lower Upper  
43 100  
57 6.8 6.2 9.2  
72 39.6 20.3 30.5#



#41  
Bromodichloromethane  
Concen: 0.220 ug/l  
RT: 7.89 min Scan# 1149  
Delta R.T. -0.00 min  
Lab File: VX014819.D  
Acq: 05 Feb 2020 13:58

Tgt Ion: 83 Resp: 1138  
Ion Ratio Lower Upper  
83 100  
85 58.8 51.6 77.4  
127 9.2 6.0 9.0#





#45

1,4-Dioxane

Concen: 3.216 ug/l

RT: 7.72 min Scan# 1121

Delta R.T. -0.01 min

Lab File: VX014819.D

Acq: 05 Feb 2020 13:58

Instrument :

MSVOA\_X

ClientSampled :

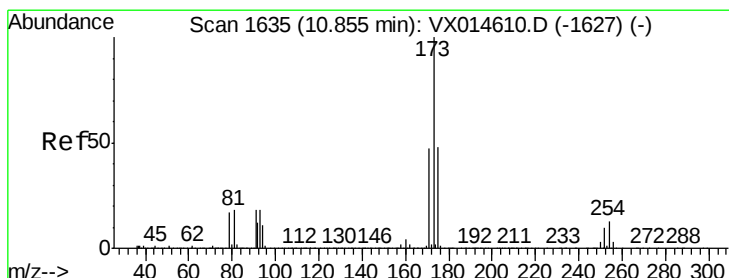
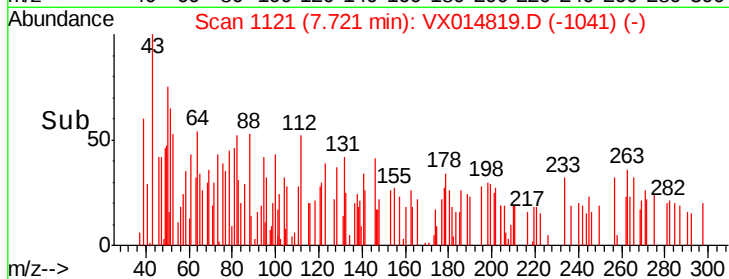
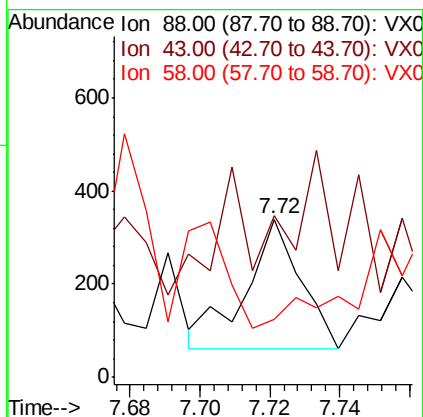
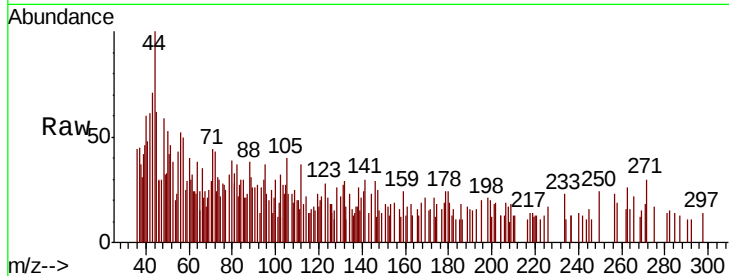
Tot Ion: 88 Resp: 304

Ion Ratio Lower Upper

88 100

43 72.7 25.4 38.2#

58 28.6 56.5 84.7#



#56

Bromoform

Concen: 0.733 ug/l

RT: 10.85 min Scan# 1635

Delta R.T. -0.00 min

Lab File: VX014819.D

Acq: 05 Feb 2020 13:58

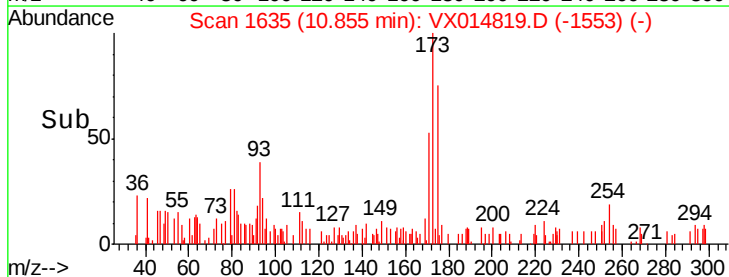
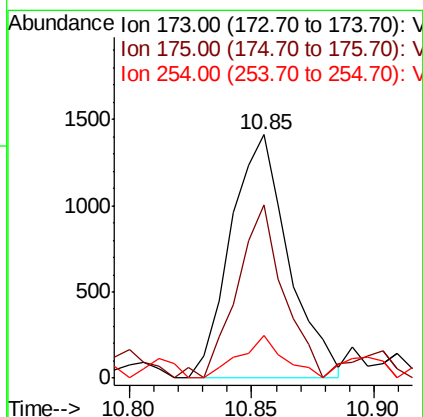
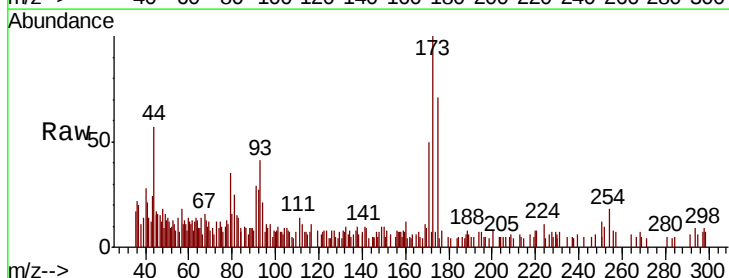
Tgt Ion: 173 Resp: 2319

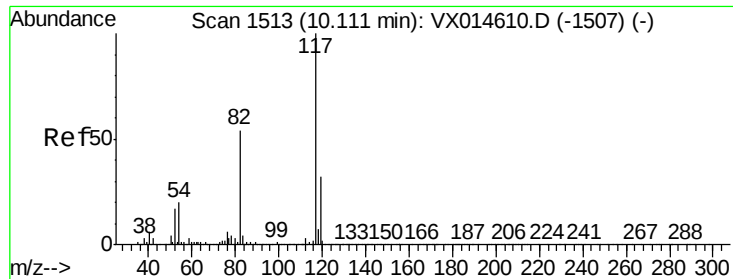
Ion Ratio Lower Upper

173 100

175 56.6 39.5 59.3

254 13.5 8.2 12.4#

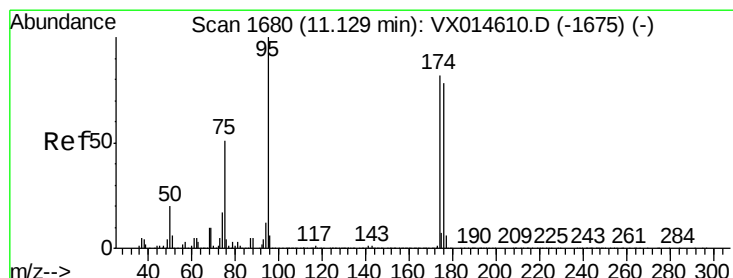
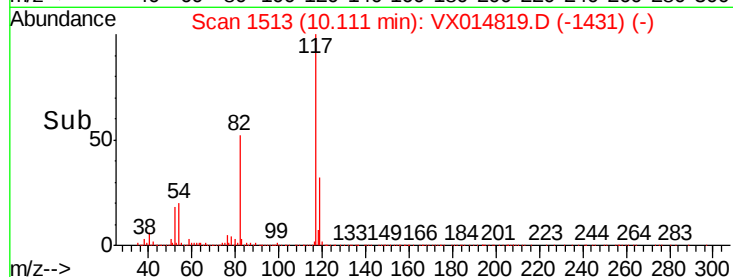
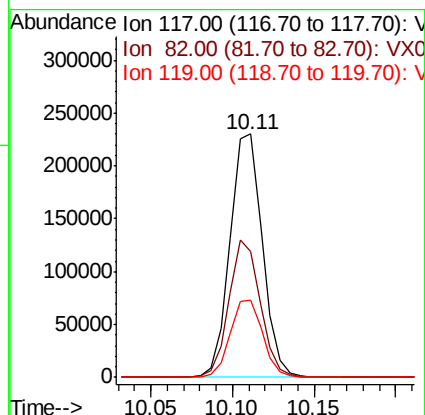
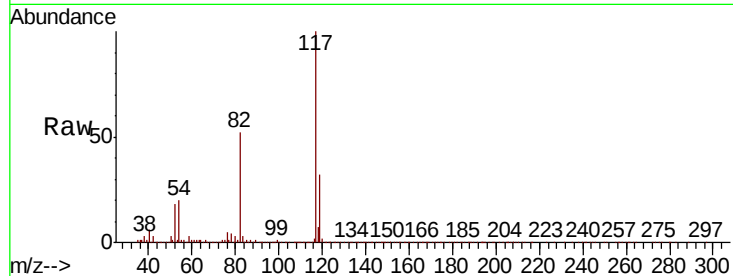




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.11 min Scan# 1513  
Delta R.T. -0.00 min  
Lab File: VX014819.D  
Acq: 05 Feb 2020 13:58

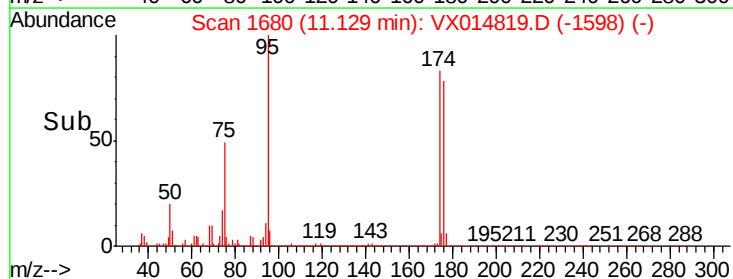
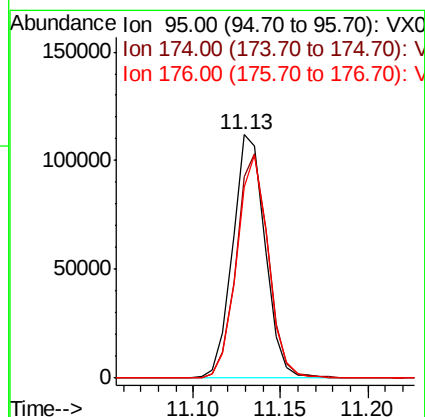
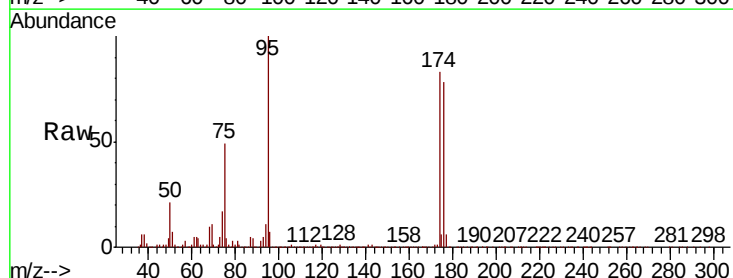
Instrument :  
MSVOA\_X  
ClientSampleId :

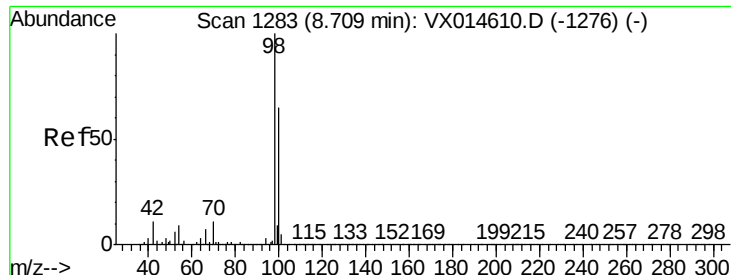
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 54.5  | 43.8  | 65.6  |
| 119     | 31.8  | 25.8  | 38.6  |



#60  
4-Bromofluorobenzene  
Concen: 28.403 ug/l  
RT: 11.13 min Scan# 1680  
Delta R.T. -0.00 min  
Lab File: VX014819.D  
Acq: 05 Feb 2020 13:58

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 95      | 100   |       |       |
| 174     | 90.6  | 70.2  | 105.2 |
| 176     | 88.4  | 68.3  | 102.5 |





#63

Toluene-d8

Concen: 29.057 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX014819.D

Acq: 05 Feb 2020 13:58

Instrument :

MSVOA\_X

ClientSampleId :

Tot Ion: 98 Resp: 417804

Ion Ratio Lower Upper

98 100

100 66.1 52.2 78.2

