

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX111319\  
 Data File : VX013406.D  
 Acq On : 13 Nov 2019 14:44  
 Operator : JC/SP  
 Sample : K5802-04  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 S32-0677

Quant Time: Nov 14 04:35:46 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X103119W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 02 07:06:38 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 755736   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 1183949  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 1046982  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.07 | 152  | 466159   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.05  | 65   | 432165   | 48.27 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.54%  |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 360879   | 48.60 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.20%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 1408712  | 50.32 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.64% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 469849   | 46.50 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.00%  |          |

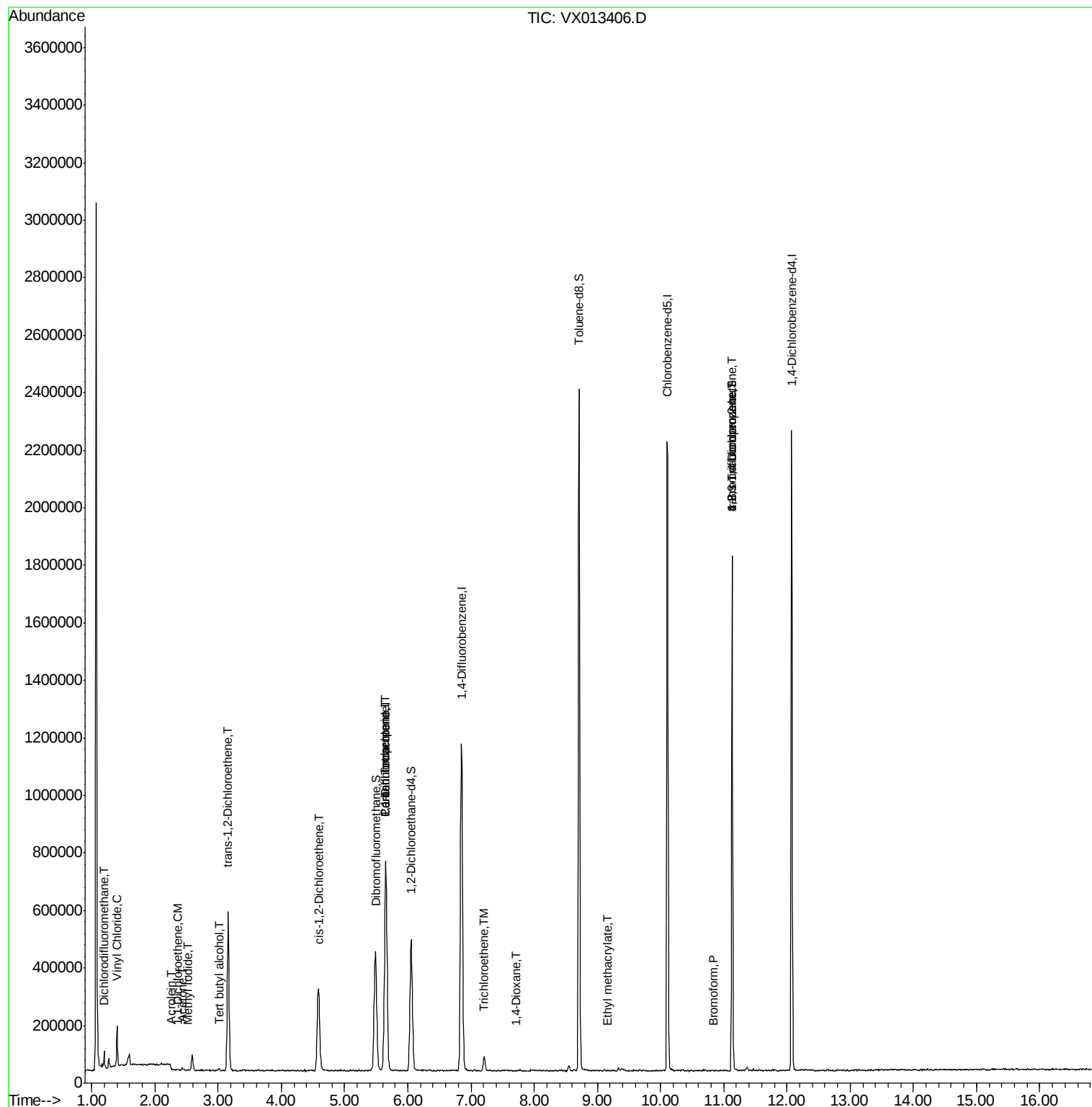
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.19  | 85   | 31395    | 3.605     | ug/l   | 98     |
| 4) Vinyl Chloride              | 1.40  | 62   | 85211    | 7.926     | ug/l   | 99     |
| 6) Chloroethane                | 1.75  | 64   | 585      | Below Cal | #      | 44     |
| 10) Methyl Iodide              | 2.51  | 142  | 1905     | 0.217     | ug/l # | 78     |
| 11) Tert butyl alcohol         | 3.01  | 59   | 8400     | 3.560     | ug/l   | 98     |
| 12) 1,1-Dichloroethene         | 2.36  | 96   | 1613     | 0.233     | ug/l # | 10     |
| 13) Acrolein                   | 2.27  | 56   | 334      | 0.261     | ug/l # | 32     |
| 16) Acetone                    | 2.43  | 43   | 9566     | 2.142     | ug/l   | 95     |
| 21) trans-1,2-Dichloroethene   | 3.16  | 96   | 234567   | 31.077    | ug/l   | 99     |
| 27) cis-1,2-Dichloroethene     | 4.59  | 96   | 190180   | 22.492    | ug/l   | 90     |
| 36) 1,1-Dichloropropene        | 5.65  | 75   | 51515    | 5.072     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 5.65  | 117  | 64172    | 6.461     | ug/l # | 17     |
| 44) Trichloroethene            | 7.21  | 130  | 21143    | 2.428     | ug/l   | 99     |
| 49) 1,4-Dioxane                | 7.73  | 88   | 210      | 0.940     | ug/l # | 1      |
| 56) Ethyl methacrylate         | 9.17  | 69   | 215      | 1.578     | ug/l # | 1      |
| 71) Bromoform                  | 10.85 | 173  | 648      | 3.287     | ug/l # | 28     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 228873   | 24.173    | ug/l # | 34     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 228873   | 62.220    | ug/l # | 9      |

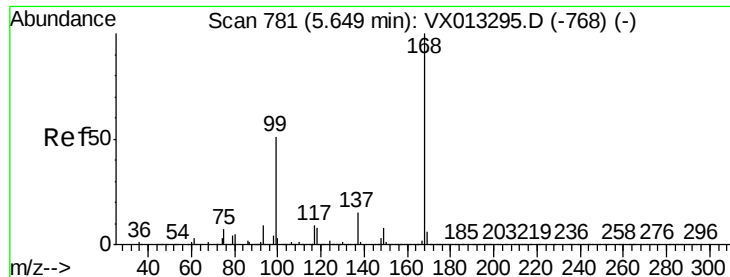
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX111319\  
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Sample : K5802-04  
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ALS Vial : 10 Sample Multiplier: 1

Instrument :  
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S32-0677

Quant Time: Nov 14 04:35:46 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X103119W.M  
Quant Title : SW846 8260  
QLast Update : Sat Nov 02 07:06:38 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.00 min

Lab File: VX013406.D

Acq: 13 Nov 2019 14:44

Instrument :

MSVOA\_X

ClientSampleId :

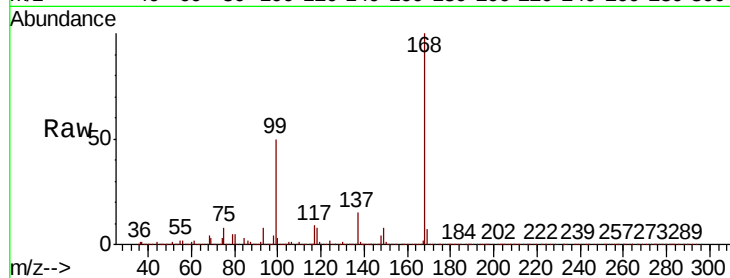
S32-0677

Tot Ion:168 Resp: 755736

Ion Ratio Lower Upper

168 100

99 49.8 40.8 61.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

300000

250000

200000

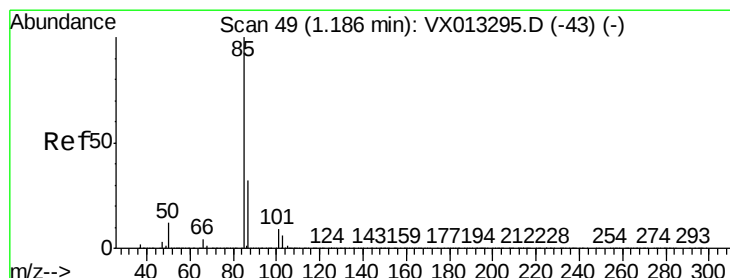
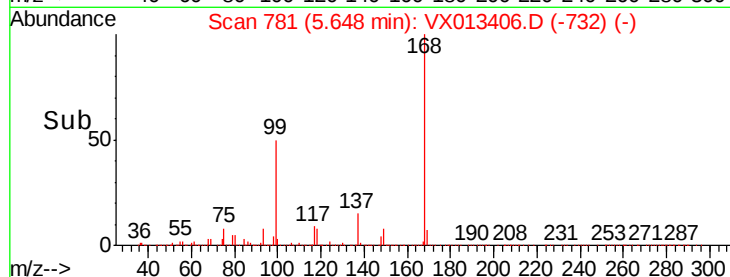
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 3.605 ug/l

RT: 1.19 min Scan# 49

Delta R.T. 0.00 min

Lab File: VX013406.D

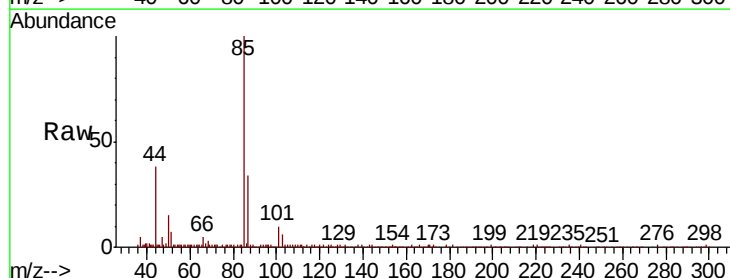
Acq: 13 Nov 2019 14:44

Tgt Ion: 85 Resp: 31395

Ion Ratio Lower Upper

85 100

87 33.0 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

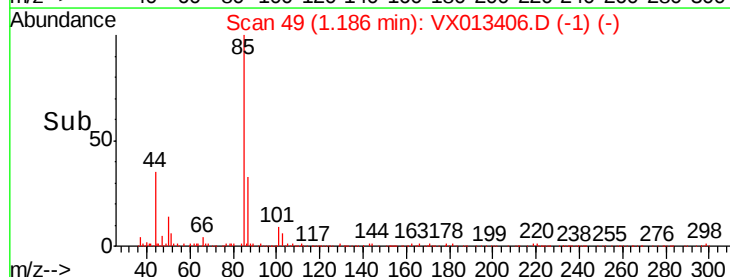
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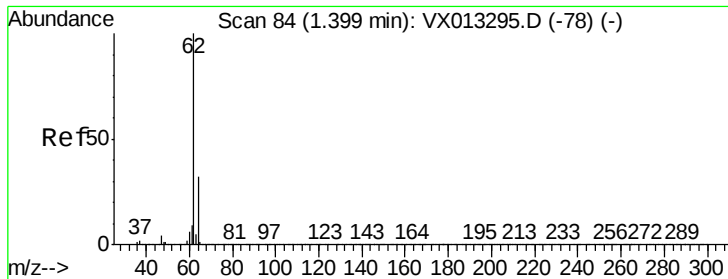
20000

10000

0

Time-->





#4

Vinyl Chloride

Concen: 7.926 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX013406.D

Acq: 13 Nov 2019 14:44

Instrument :

MSVOA\_X

ClientSampleId :

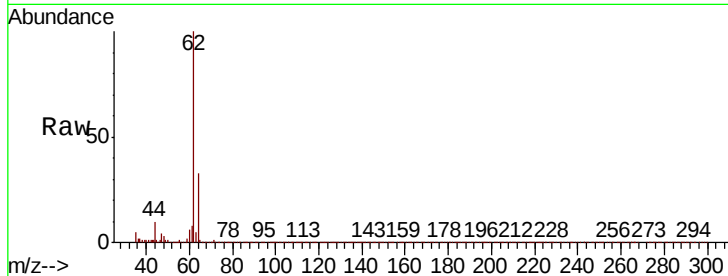
S32-0677

Tot Ion: 62 Resp: 85211

Ion Ratio Lower Upper

62 100

64 31.5 25.6 38.4



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0

1.40

80000

60000

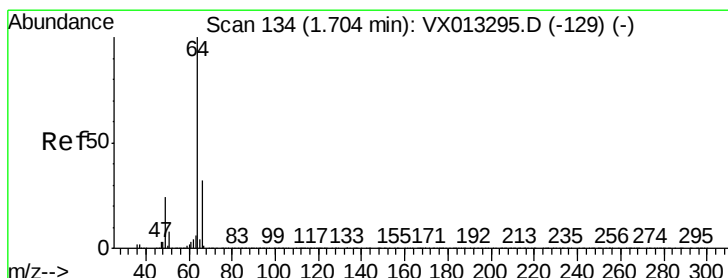
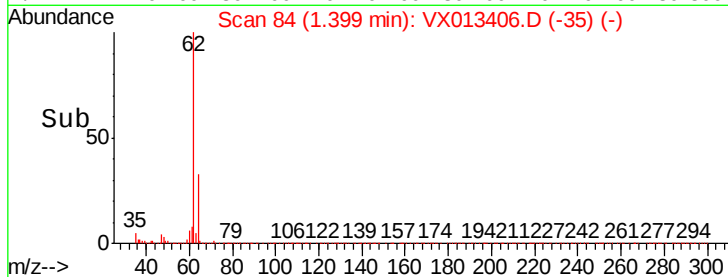
40000

20000

0

Time-->

1.35 1.40 1.45



#6

Chloroethane

Concen: Below Cal

RT: 1.75 min Scan# 142

Delta R.T. 0.05 min

Lab File: VX013406.D

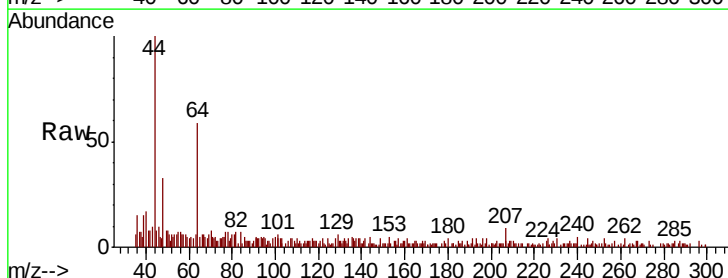
Acq: 13 Nov 2019 14:44

Tgt Ion: 64 Resp: 585

Ion Ratio Lower Upper

64 100

66 0.6 25.6 38.4#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.75

3000

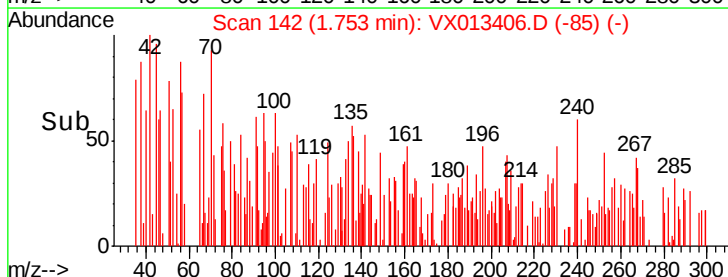
2000

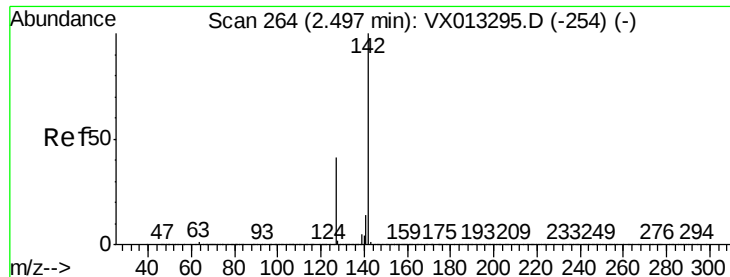
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0

Time-->

1.74 1.75 1.76 1.77

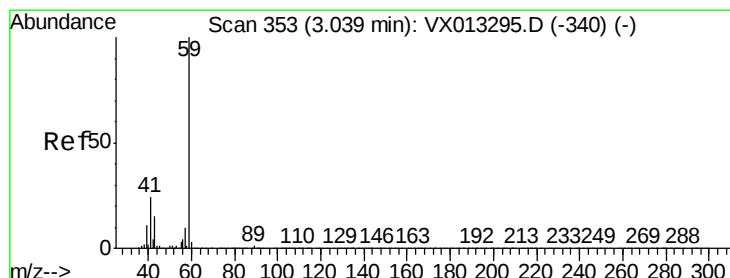
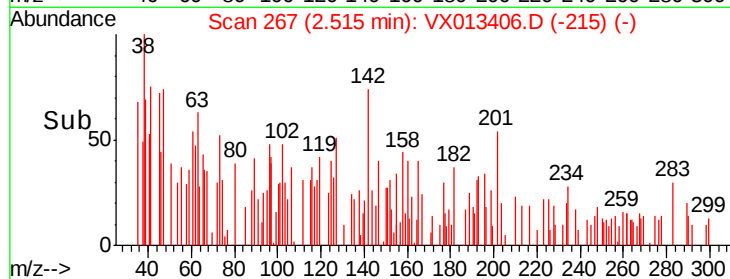
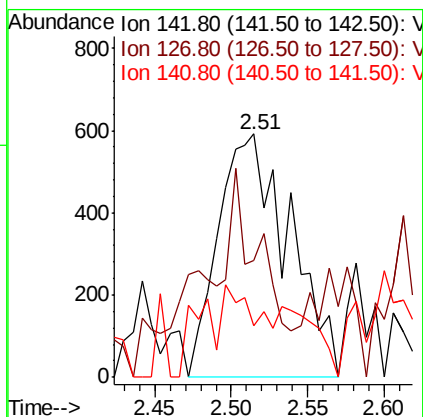
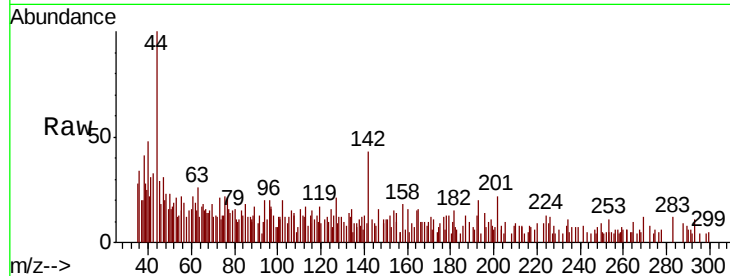




#10  
Methvl Iodide  
Concen: 0.217 ug/l  
RT: 2.51 min Scan# 267  
Delta R.T. 0.02 min  
Lab File: VX013406.D  
Acq: 13 Nov 2019 14:44

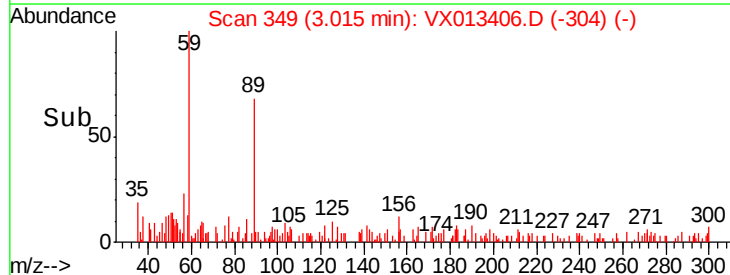
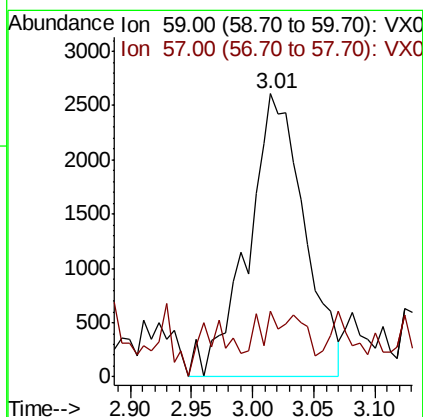
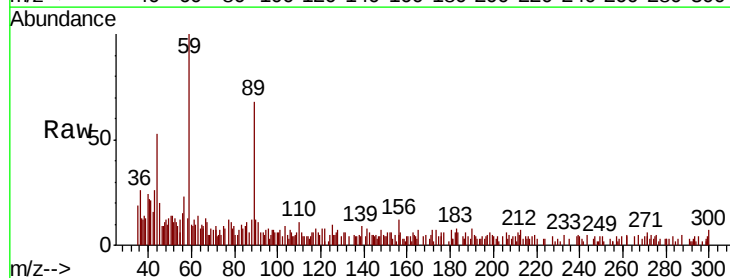
Instrument :  
MSVOA\_X  
ClientSampleId :  
S32-0677

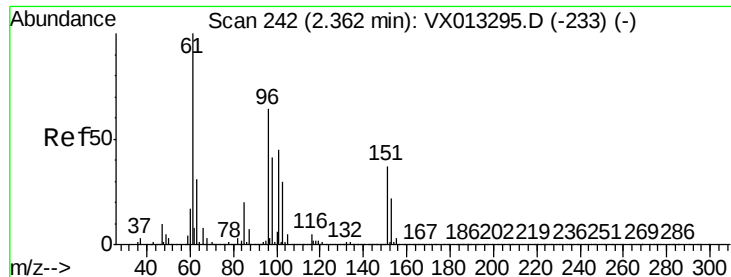
Tot Ion:142 Resp: 1905  
Ion Ratio Lower Upper  
142 100  
127 23.6 32.6 49.0#  
141 11.8 11.6 17.4



#11  
Tert butyl alcohol  
Concen: 3.560 ug/l  
RT: 3.01 min Scan# 349  
Delta R.T. -0.02 min  
Lab File: VX013406.D  
Acq: 13 Nov 2019 14:44

Tgt Ion: 59 Resp: 8400  
Ion Ratio Lower Upper  
59 100  
57 10.8 8.0 12.0

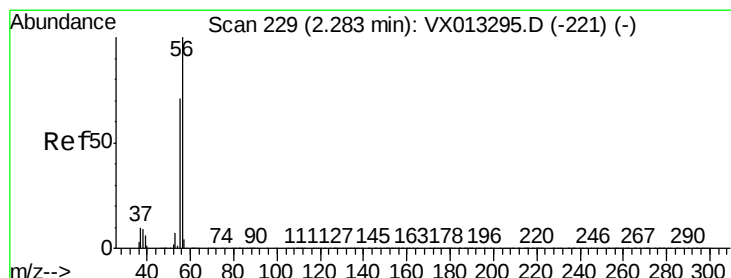
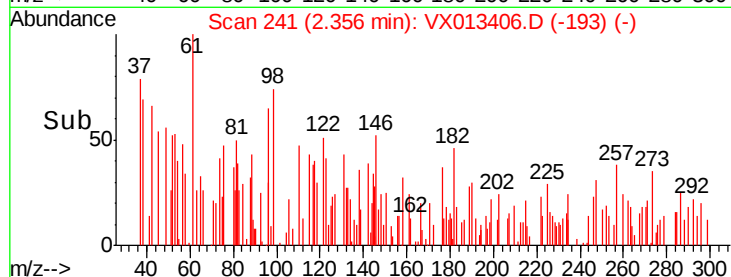
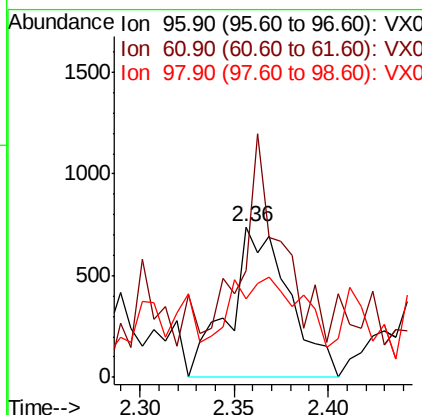
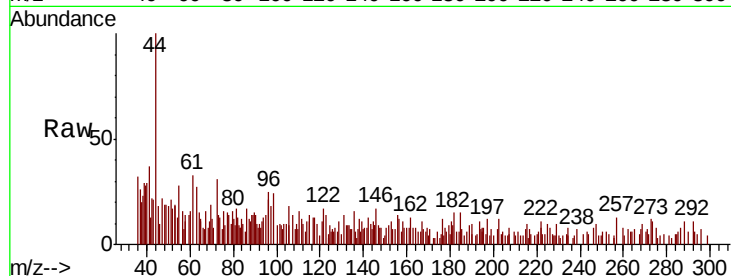




#12  
 1,1-Dichloroethene  
 Concen: 0.233 ug/l  
 RT: 2.36 min Scan# 241  
 Delta R.T. -0.01 min  
 Lab File: VX013406.D  
 Acq: 13 Nov 2019 14:44

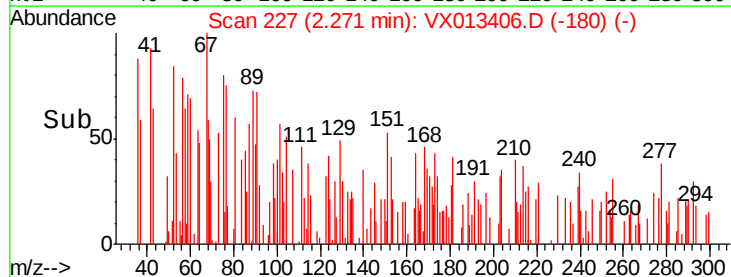
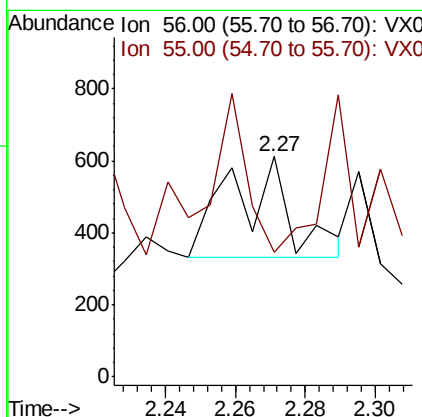
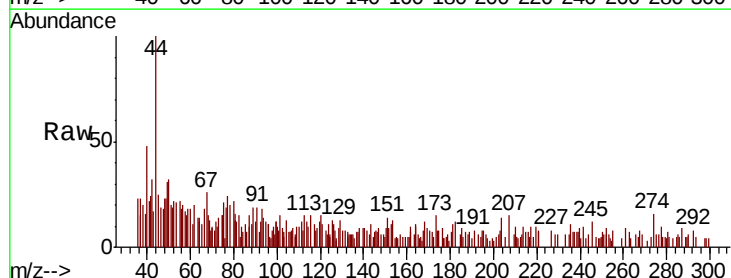
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 S32-0677

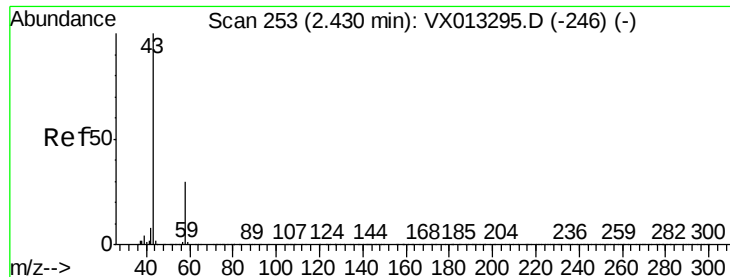
Tot Ion: 96 Resp: 1613  
 Ion Ratio Lower Upper  
 96 100  
 61 16.6 125.0 187.6#  
 98 27.2 50.7 76.1#



#13  
 Acrolein  
 Concen: 0.261 ug/l  
 RT: 2.27 min Scan# 227  
 Delta R.T. -0.01 min  
 Lab File: VX013406.D  
 Acq: 13 Nov 2019 14:44

Tgt Ion: 56 Resp: 334  
 Ion Ratio Lower Upper  
 56 100  
 55 128.4 57.4 86.0#





#16

Acetone

Concen: 2.142 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.00 min

Lab File: VX013406.D

Acq: 13 Nov 2019 14:44

Instrument :

MSVOA\_X

ClientSampleId :

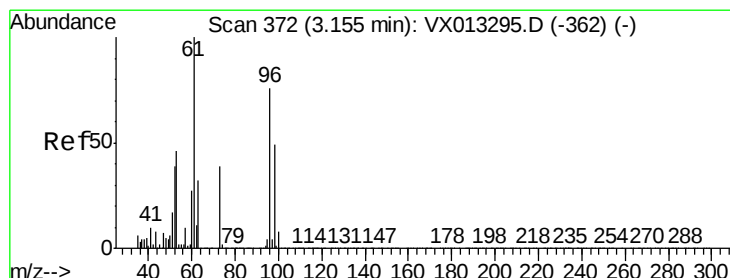
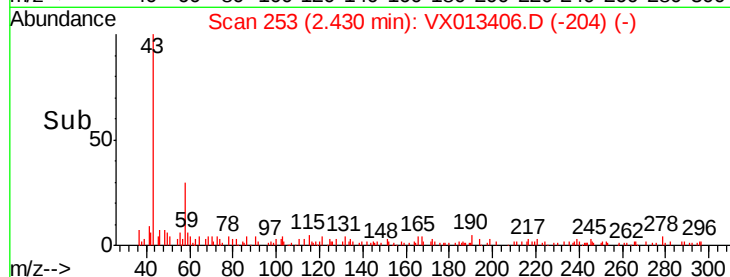
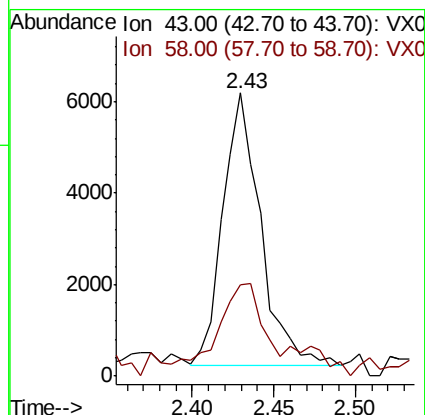
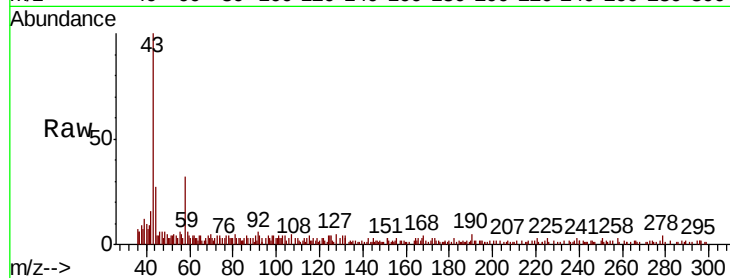
S32-0677

Tot Ion: 43 Resp: 9566

Ion Ratio Lower Upper

43 100

58 27.9 24.3 36.5



#21

trans-1,2-Dichloroethene

Concen: 31.077 ug/l

RT: 3.16 min Scan# 372

Delta R.T. -0.00 min

Lab File: VX013406.D

Acq: 13 Nov 2019 14:44

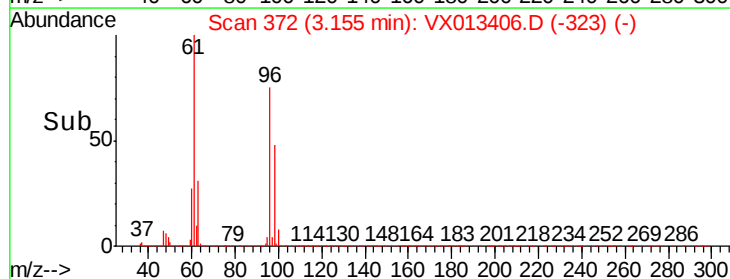
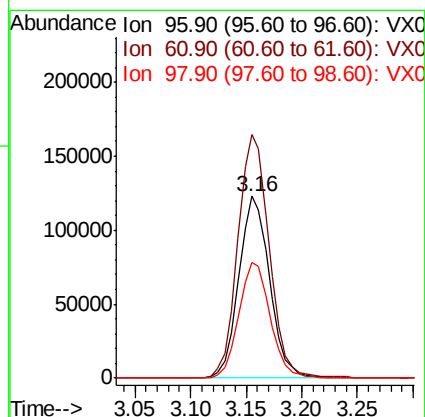
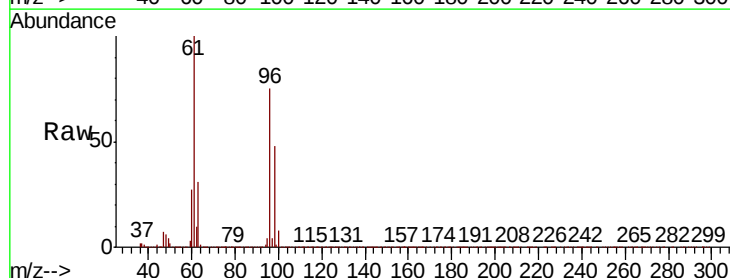
Tgt Ion: 96 Resp: 234567

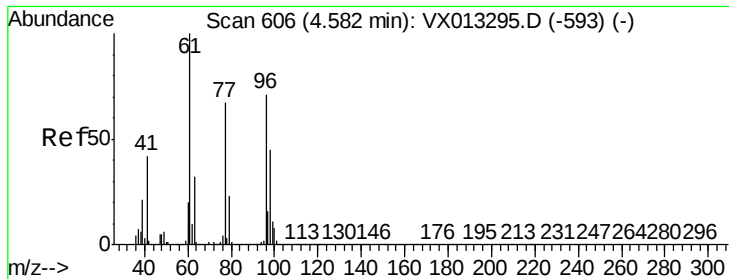
Ion Ratio Lower Upper

96 100

61 133.9 105.8 158.6

98 63.7 51.8 77.6



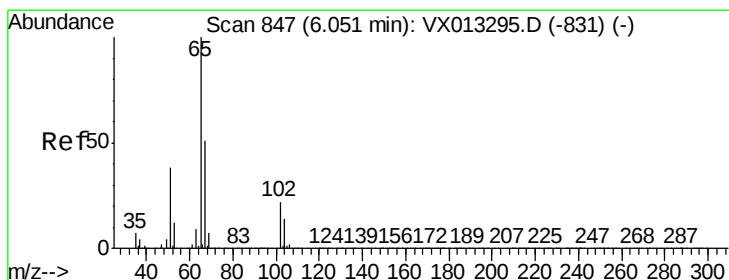
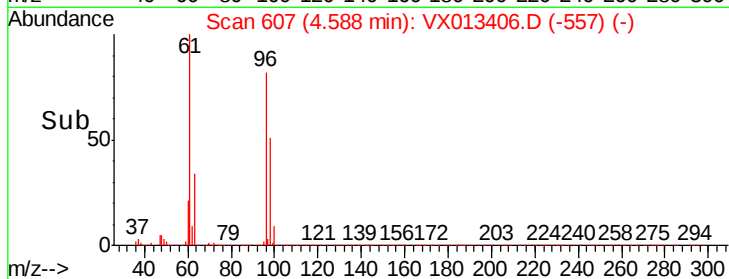
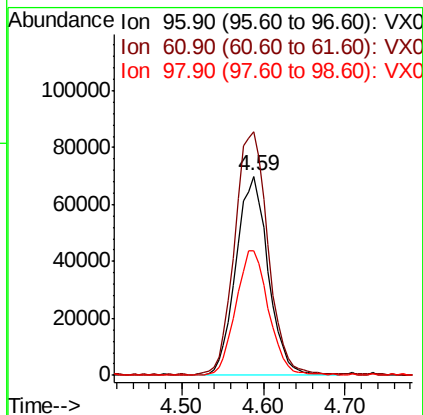
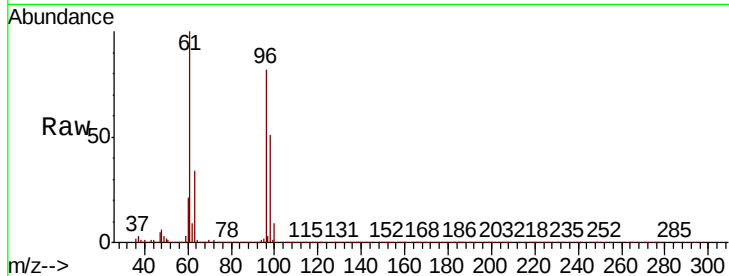


#27

cis-1,2-Dichloroethene  
Concen: 22.492 ug/l  
RT: 4.59 min Scan# 607  
Delta R.T. 0.01 min  
Lab File: VX013406.D  
Acq: 13 Nov 2019 14:44

Instrument :  
MSVOA\_X  
ClientSampled :  
S32-0677

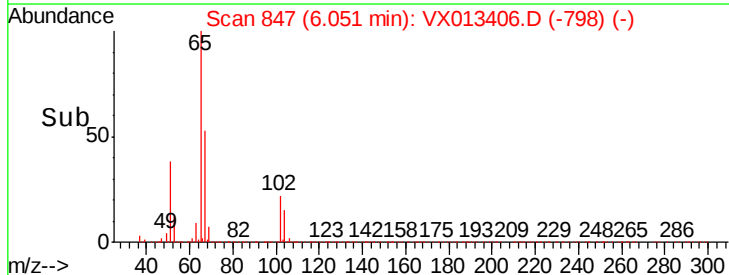
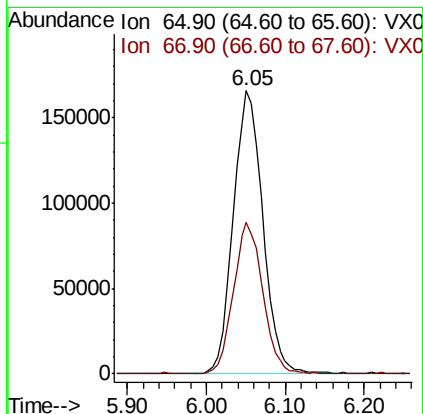
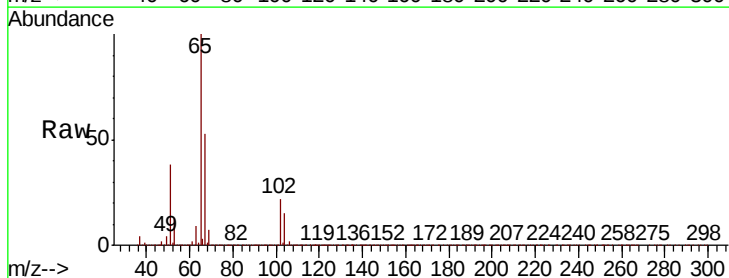
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 126.9 | 0.0   | 288.0 |
| 98      | 63.9  | 0.0   | 129.6 |

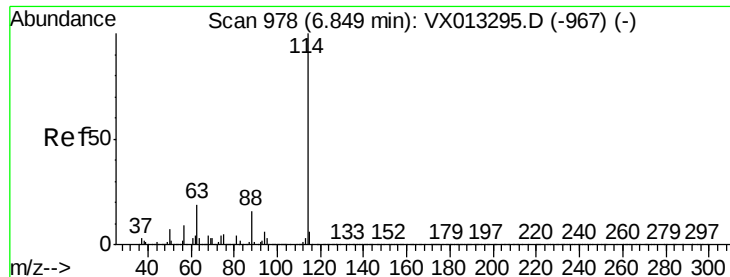


#33

1,2-Dichloroethane-d4  
Concen: 48.269 ug/l  
RT: 6.05 min Scan# 847  
Delta R.T. -0.00 min  
Lab File: VX013406.D  
Acq: 13 Nov 2019 14:44

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 65      | 100   |       |       |
| 67      | 52.5  | 0.0   | 104.2 |

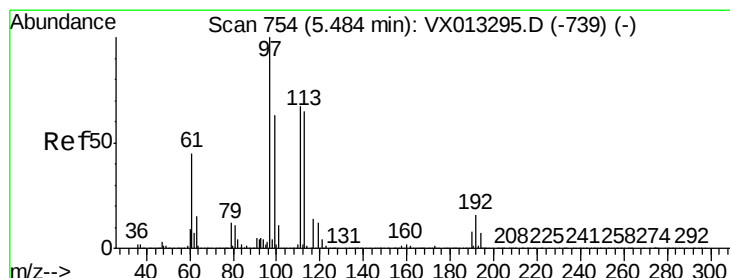
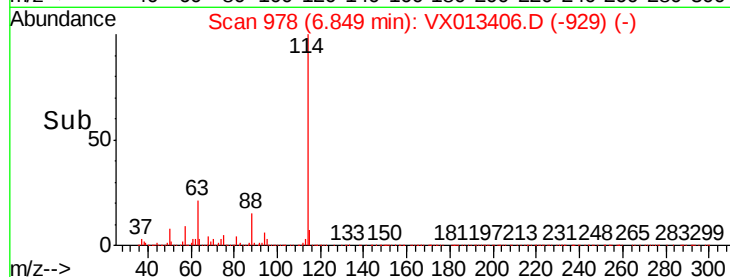
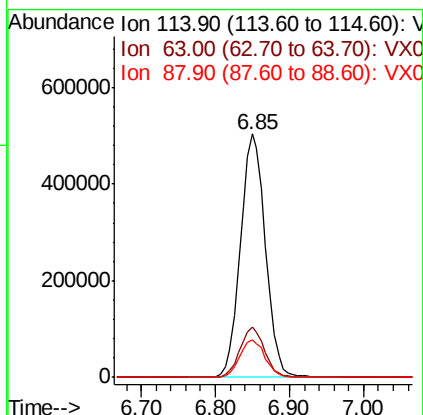
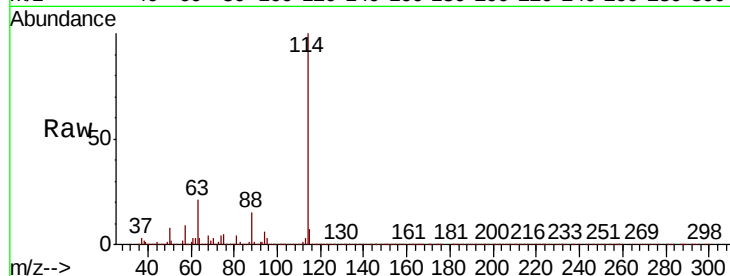




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.85 min Scan# 978  
Delta R.T. 0.00 min  
Lab File: VX013406.D  
Acq: 13 Nov 2019 14:44

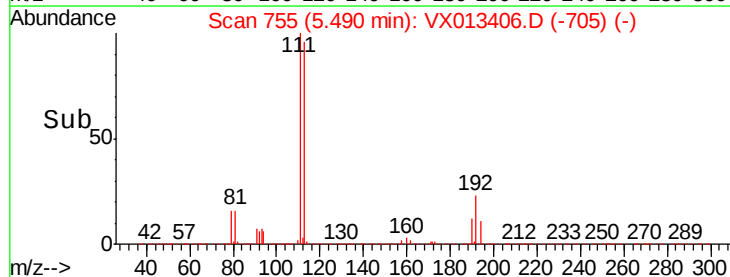
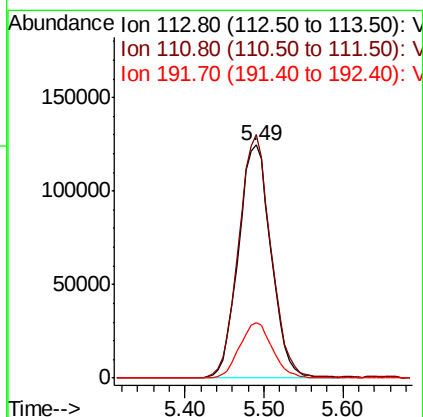
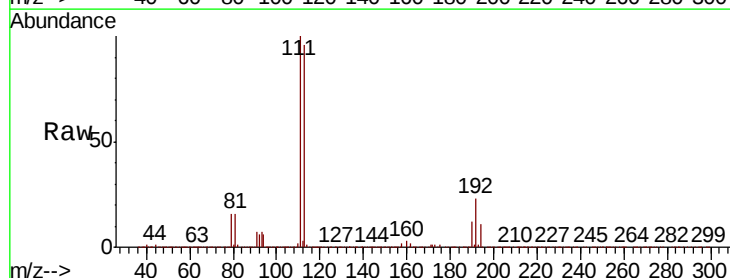
Instrument :  
MSVOA\_X  
ClientSampleId :  
S32-0677

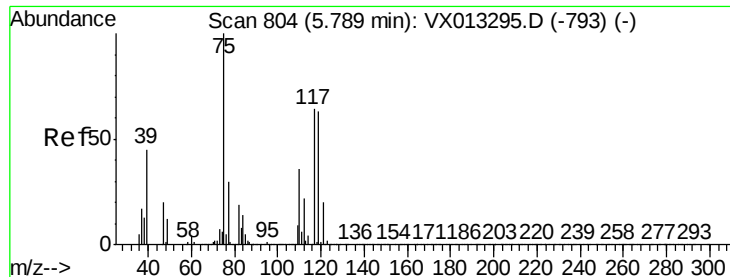
Tot Ion:114 Resp: 1183949  
Ion Ratio Lower Upper  
114 100  
63 20.7 0.0 38.4  
88 15.4 0.0 32.2



#35  
Dibromofluoromethane  
Concen: 48.597 ug/l  
RT: 5.49 min Scan# 755  
Delta R.T. 0.01 min  
Lab File: VX013406.D  
Acq: 13 Nov 2019 14:44

Tgt Ion:113 Resp: 360879  
Ion Ratio Lower Upper  
113 100  
111 102.2 81.9 122.9  
192 23.5 19.1 28.7

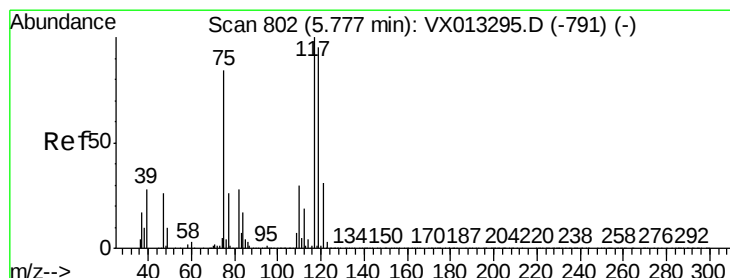
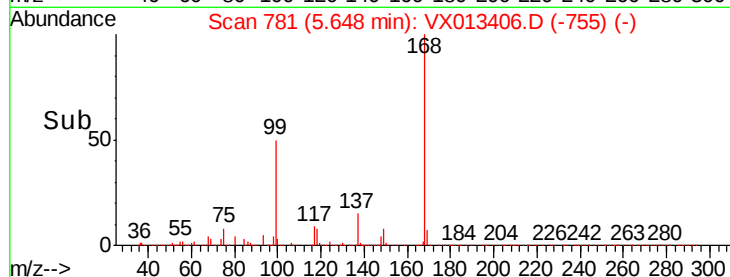
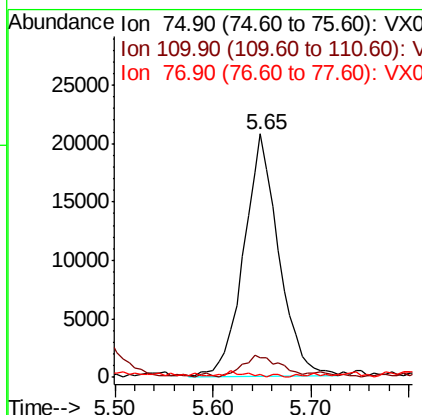
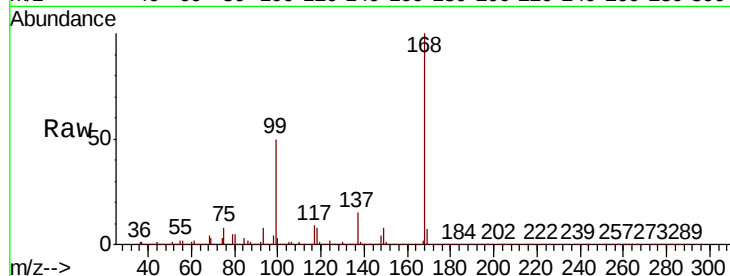




#36  
 1,1-Dichloropropene  
 Concen: 5.072 ug/l  
 RT: 5.65 min Scan# 781  
 Delta R.T. -0.14 min  
 Lab File: VX013406.D  
 Acq: 13 Nov 2019 14:44

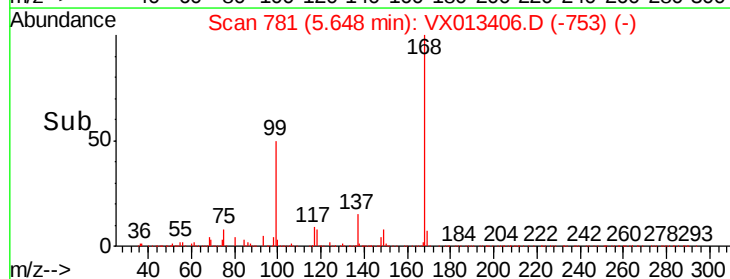
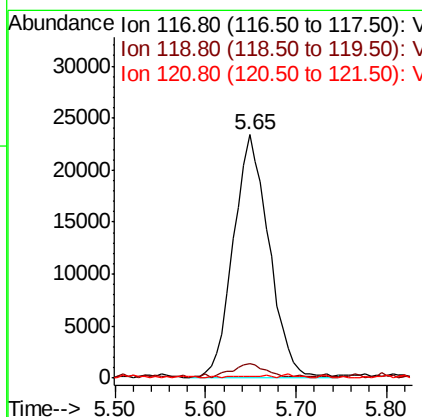
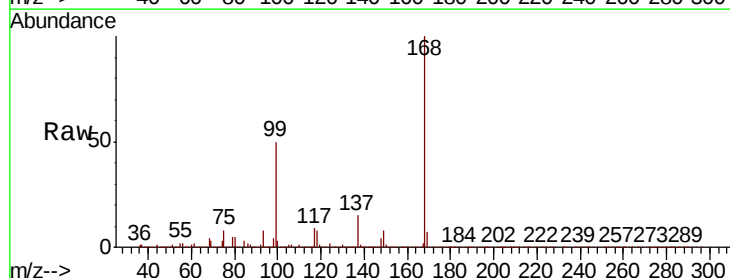
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 S32-0677

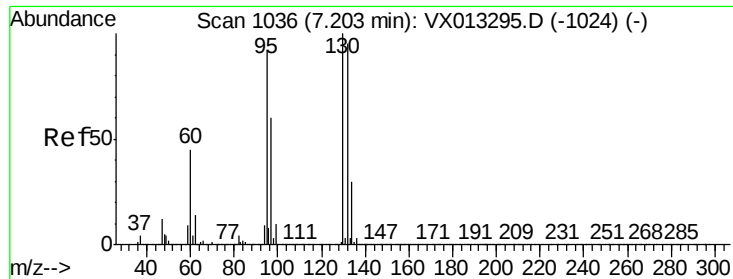
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.8   | 18.1  | 54.1# |
| 77      | 0.0   | 25.0  | 37.4# |



#38  
 Carbon Tetrachloride  
 Concen: 6.461 ug/l  
 RT: 5.65 min Scan# 781  
 Delta R.T. -0.13 min  
 Lab File: VX013406.D  
 Acq: 13 Nov 2019 14:44

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 6.0   | 76.1  | 114.1# |
| 121     | 0.2   | 24.6  | 37.0#  |





#44

Trichloroethene

Concen: 2.428 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.01 min

Lab File: VX013406.D

Acq: 13 Nov 2019 14:44

Instrument :

MSVOA\_X

ClientSampled :

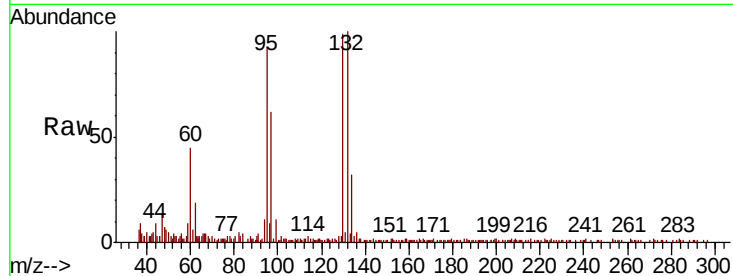
S32-0677

Tot Ion:130 Resp: 21143

Ion Ratio Lower Upper

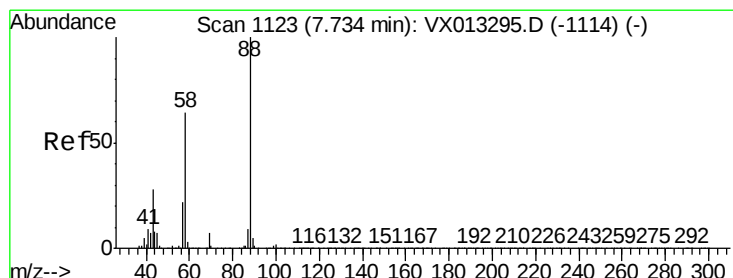
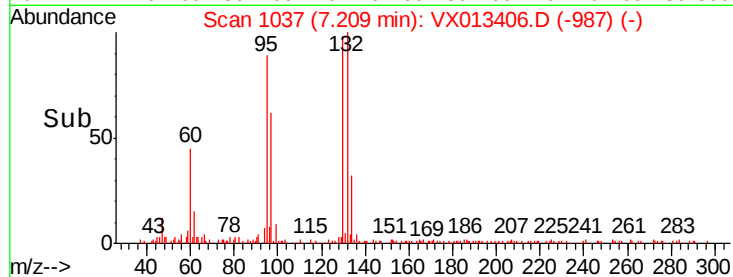
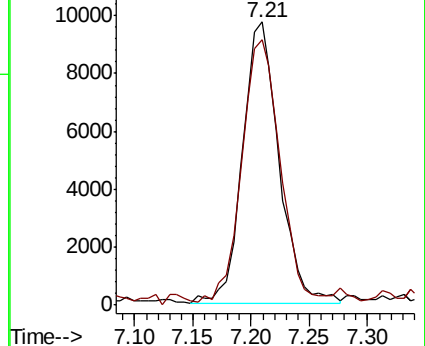
130 100

95 93.3 0.0 184.8



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 0.940 ug/l

RT: 7.73 min Scan# 1122

Delta R.T. -0.01 min

Lab File: VX013406.D

Acq: 13 Nov 2019 14:44

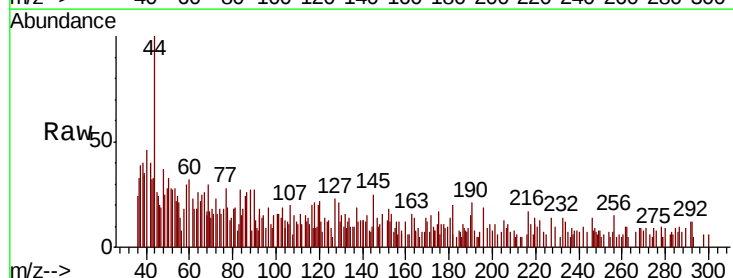
Tgt Ion: 88 Resp: 210

Ion Ratio Lower Upper

88 100

43 412.4 26.6 39.8#

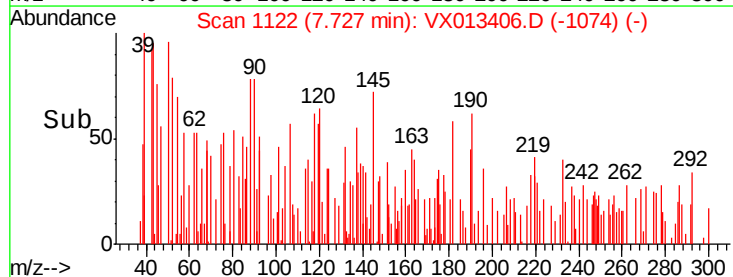
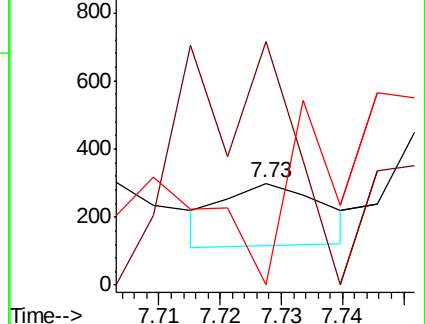
58 0.0 55.0 82.6#

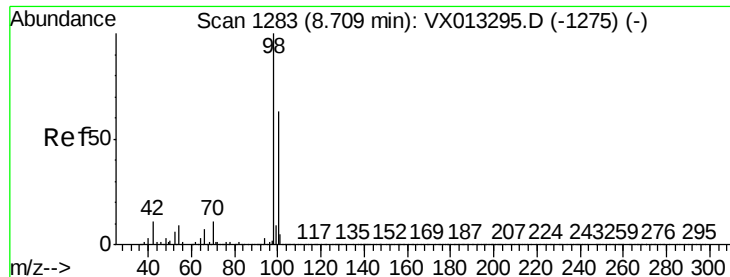


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.321 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013406.D

Acq: 13 Nov 2019 14:44

Instrument :

MSVOA\_X

ClientSampleId :

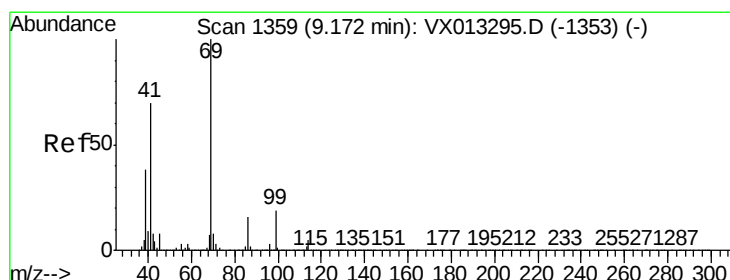
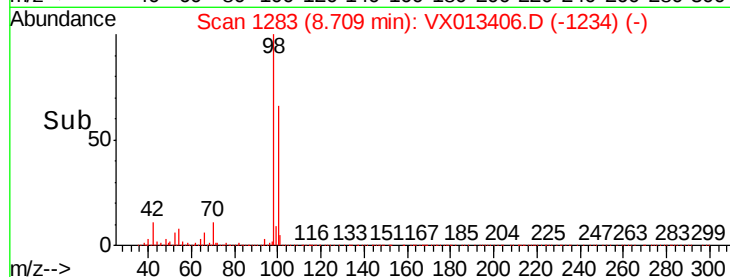
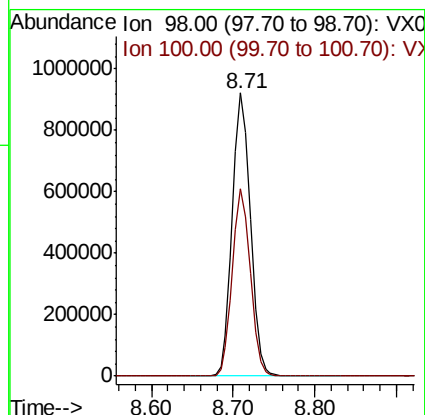
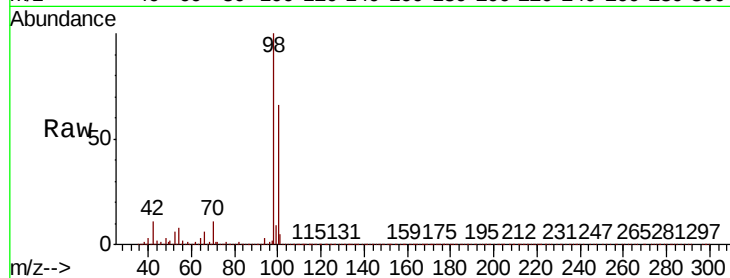
S32-0677

Tot Ion: 98 Resp: 1408712

Ion Ratio Lower Upper

98 100

100 65.5 52.2 78.2



#56

Ethyl methacrylate

Concen: 1.578 ug/l

RT: 9.17 min Scan# 1358

Delta R.T. -0.01 min

Lab File: VX013406.D

Acq: 13 Nov 2019 14:44

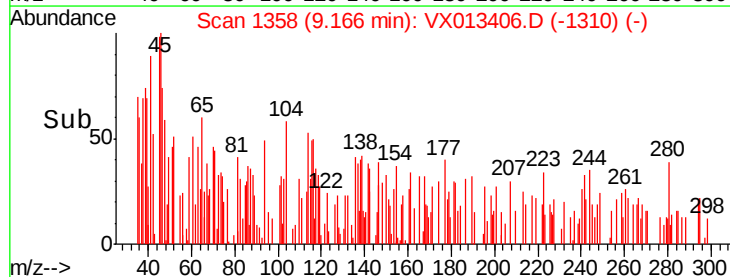
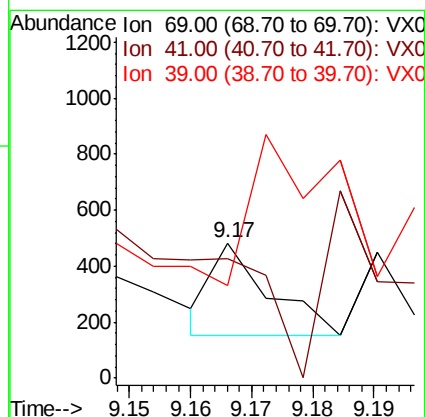
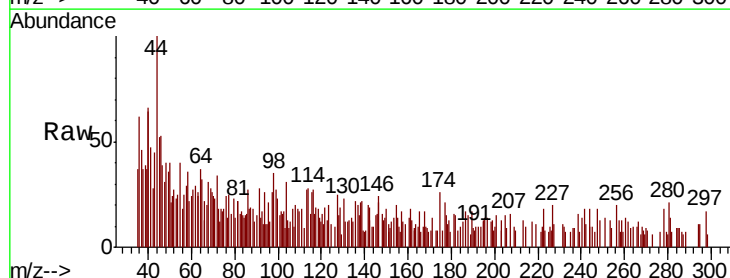
Tgt Ion: 69 Resp: 215

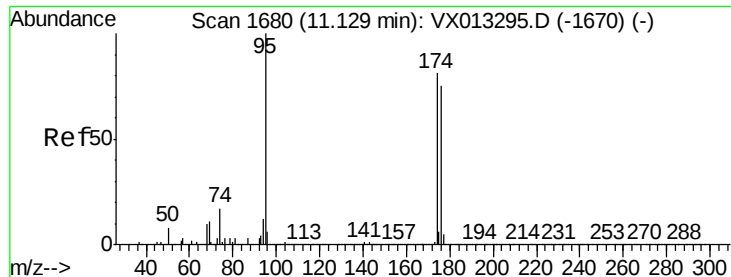
Ion Ratio Lower Upper

69 100

41 0.0 56.2 84.2#

39 555.3 31.1 46.7#





#62

4-Bromofluorobenzene

Concen: 46.504 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.01 min

Lab File: VX013406.D

Acq: 13 Nov 2019 14:44

Instrument :

MSVOA\_X

ClientSampleId :

S32-0677

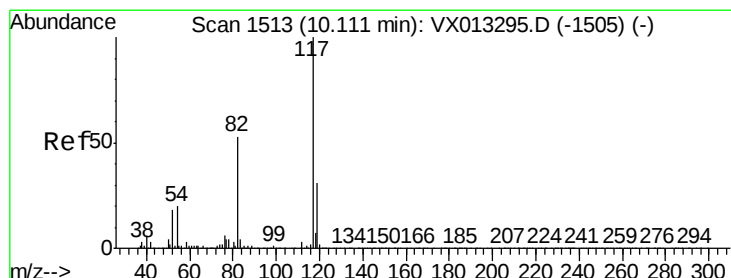
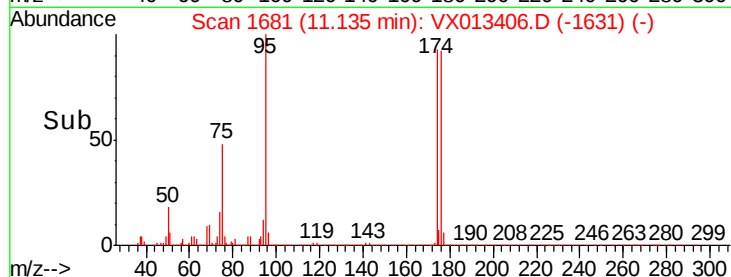
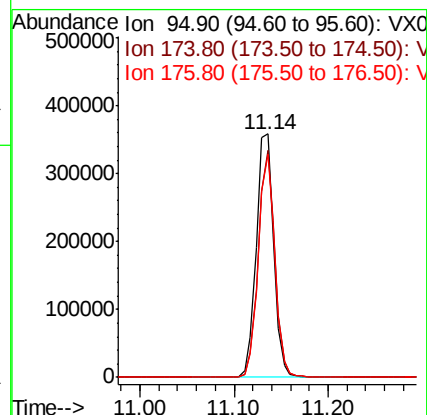
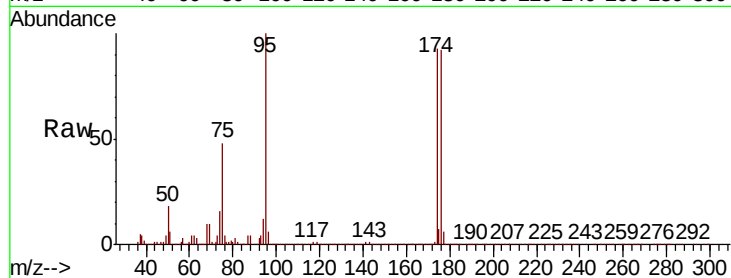
Tot Ion: 95 Resp: 469849

Ion Ratio Lower Upper

95 100

174 88.6 0.0 179.8

176 87.4 0.0 173.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1513

Delta R.T. -0.00 min

Lab File: VX013406.D

Acq: 13 Nov 2019 14:44

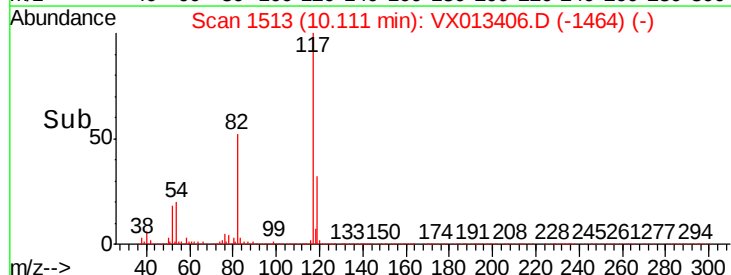
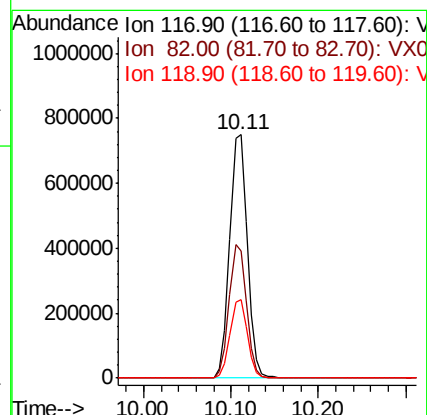
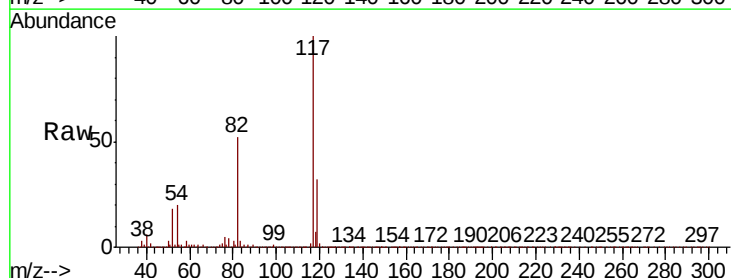
Tgt Ion: 117 Resp: 1046982

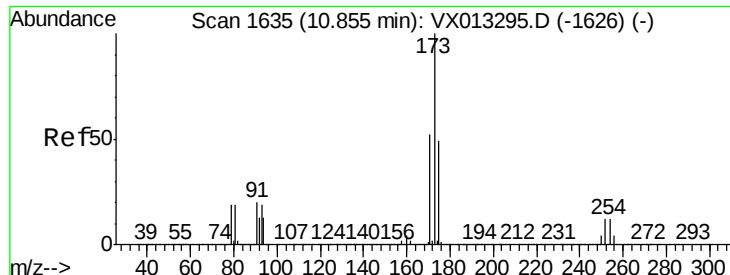
Ion Ratio Lower Upper

117 100

82 52.0 42.6 64.0

119 32.2 24.8 37.2

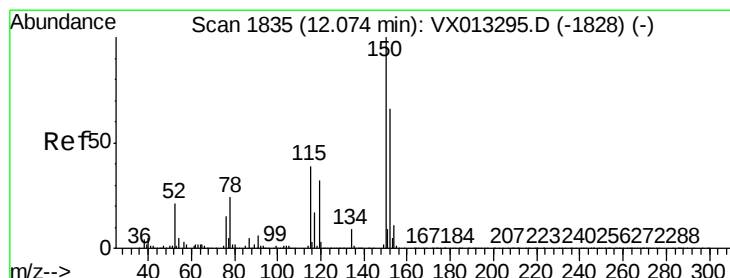
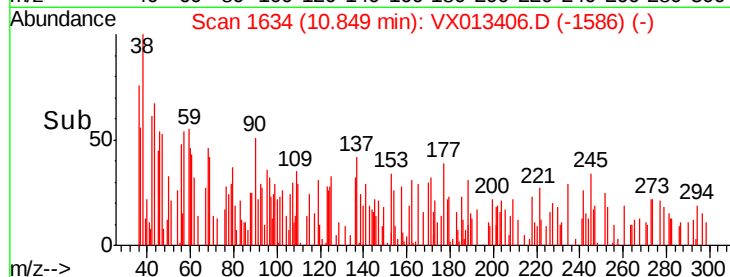
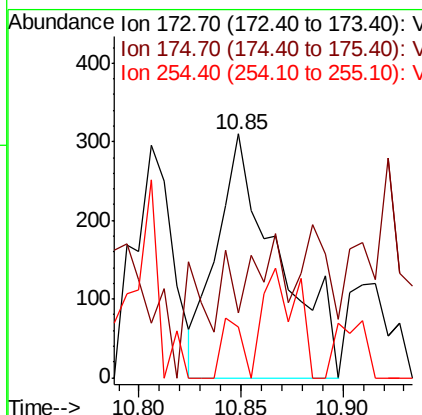
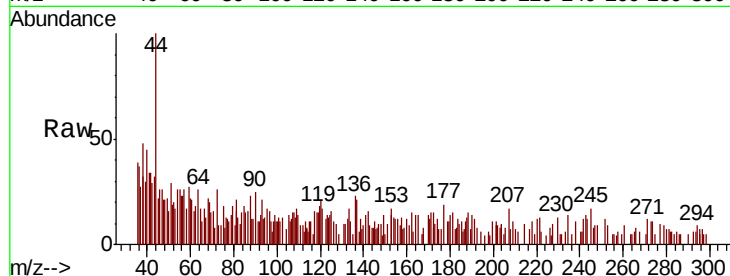




#71  
Bromoform  
Concen: 3.287 ug/l  
RT: 10.85 min Scan# 1634  
Delta R.T. -0.01 min  
Lab File: VX013406.D  
Acq: 13 Nov 2019 14:44

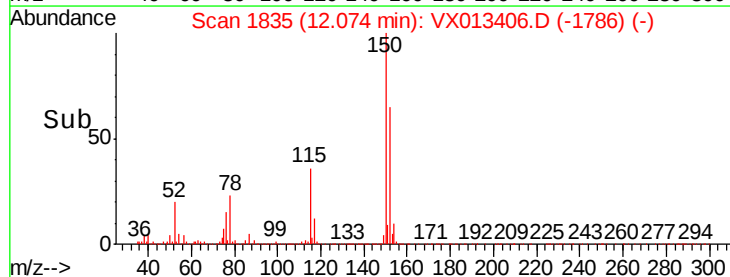
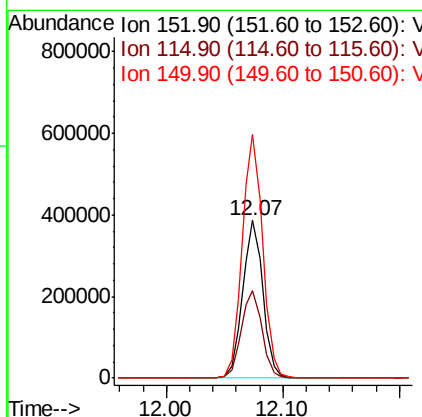
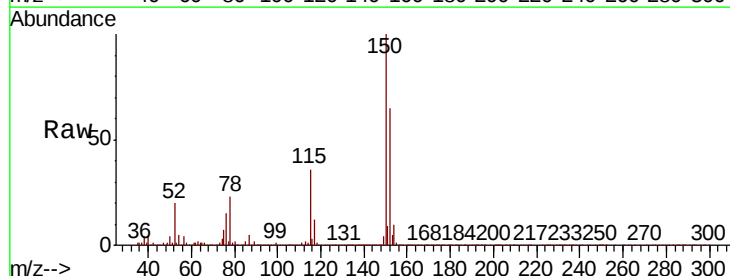
Instrument :  
MSVOA\_X  
ClientSampled :  
S32-0677

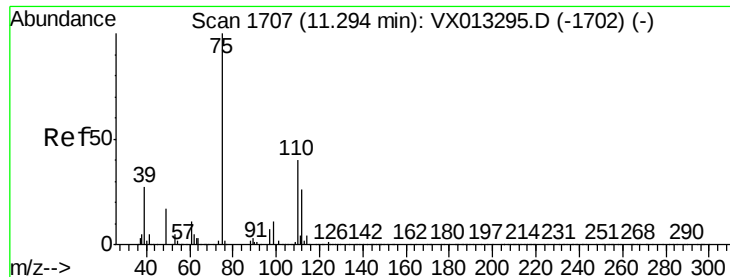
Tot Ion:173 Resp: 648  
Ion Ratio Lower Upper  
173 100  
175 0.0 24.8 74.4#  
254 33.0 0.2 0.2#



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.07 min Scan# 1835  
Delta R.T. -0.00 min  
Lab File: VX013406.D  
Acq: 13 Nov 2019 14:44

Tgt Ion:152 Resp: 466159  
Ion Ratio Lower Upper  
152 100  
115 57.2 39.5 118.3  
150 156.9 0.0 344.4





#76

1,2,3-Trichloropropane

Concen: 24.173 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. -0.16 min

Lab File: VX013406.D

Acq: 13 Nov 2019 14:44

Instrument :

MSVOA\_X

ClientSampleId :

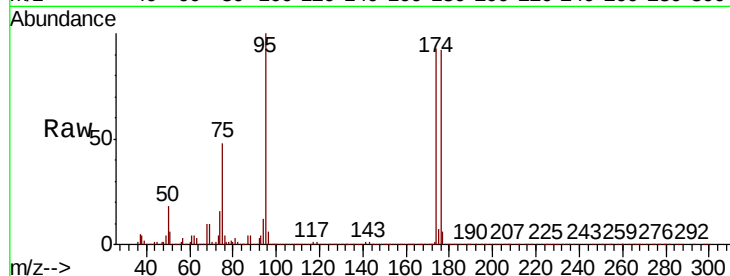
S32-0677

Tot Ion: 75 Resp: 228873

Ion Ratio Lower Upper

75 100

77 1.3 22.3 66.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

200000

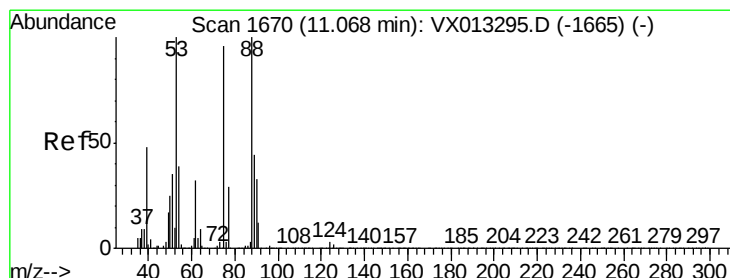
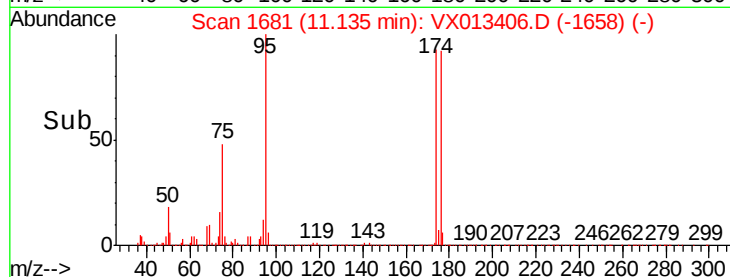
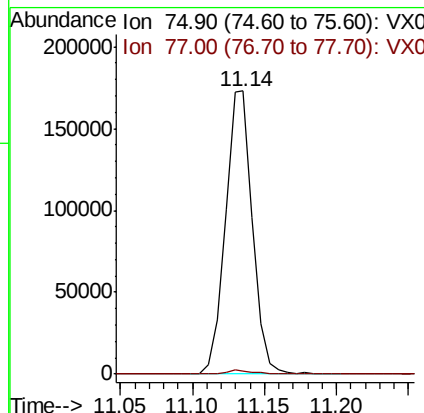
150000

100000

50000

0

11.05 11.10 11.15 11.20



#81

trans-1,4-Dichloro-2-butene

Concen: 62.220 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.07 min

Lab File: VX013406.D

Acq: 13 Nov 2019 14:44

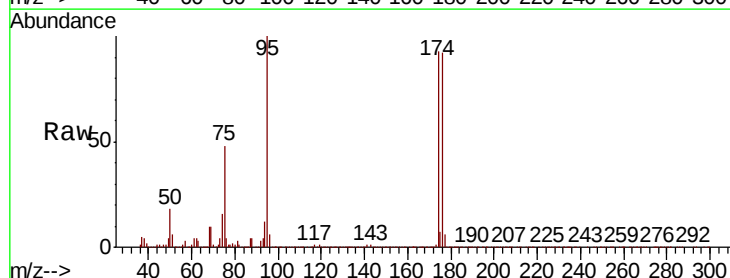
Tgt Ion: 75 Resp: 228873

Ion Ratio Lower Upper

75 100

53 0.0 81.0 121.6#

89 0.2 36.0 54.0#



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

200000

150000

100000

50000

0

11.05 11.10 11.15 11.20

