

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070119\  
 Data File : VX010594.D  
 Acq On : 01 Jul 2019 16:31  
 Operator : JC/SP  
 Sample : K3521-44  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SY-4

Quant Time: Jul 02 04:53:28 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 20 03:31:56 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 246409   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 378177   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 347251   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 160885   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 116810   | 50.56 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.12% |          |
| 35) Dibromofluoromethane    | 5.49  | 113  | 114475   | 49.47 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.94%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 445942   | 50.38 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.76% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 150120   | 46.97 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.94%  |          |

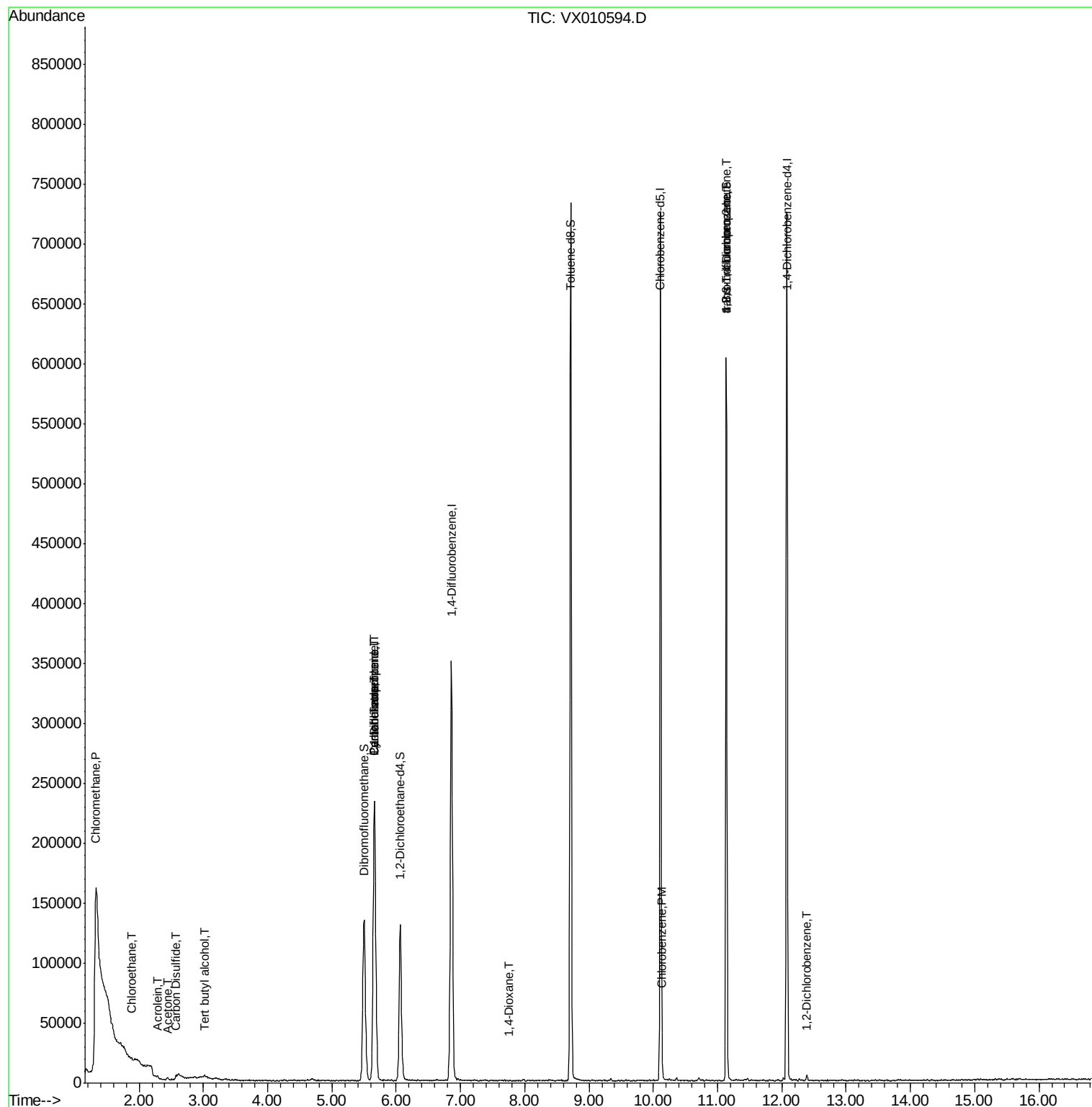
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane               | 1.33  | 50   | 10240    | 5.133  | ug/l # | 49     |
| 6) Chloroethane                | 1.88  | 64   | 1274     | 0.988  | ug/l # | 58     |
| 11) Tert butyl alcohol         | 3.03  | 59   | 1411     | 2.334  | ug/l # | 70     |
| 13) Acrolein                   | 2.28  | 56   | 169      | 0.421  | ug/l # | 1      |
| 16) Acetone                    | 2.44  | 43   | 2550     | 2.202  | ug/l   | 90     |
| 17) Carbon Disulfide           | 2.57  | 76   | 5662     | 0.988  | ug/l # | 79     |
| 31) Cyclohexane                | 5.66  | 56   | 4456     | 1.335  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 14937    | 4.970  | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 22253    | 6.838  | ug/l # | 14     |
| 49) 1,4-Dioxane                | 7.75  | 88   | 39       | 0.569  | ug/l # | 28     |
| 65) Chlorobenzene              | 10.14 | 112  | 2773     | 0.393  | ug/l   | 99     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 72870    | 24.855 | ug/l # | 33     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 72870    | 57.985 | ug/l # | 16     |
| 91) 1,2-Dichlorobenzene        | 12.39 | 146  | 1082     | 0.205  | ug/l   | 93     |

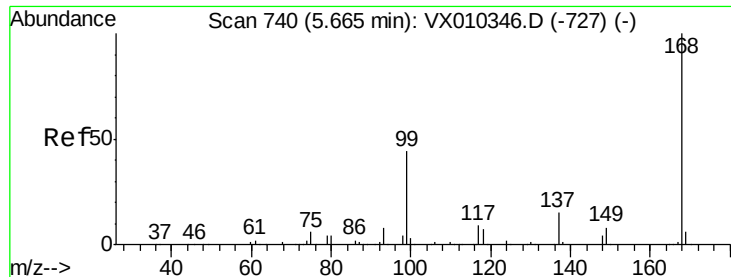
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX070119\  
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Instrument :  
MSVOA\_X  
ClientSampleId :  
SY-4

Quant Time: Jul 02 04:53:28 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X061919W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jun 20 03:31:56 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX010594.D

Acq: 01 Jul 2019 16:31

Instrument :

MSVOA\_X

ClientSampled :

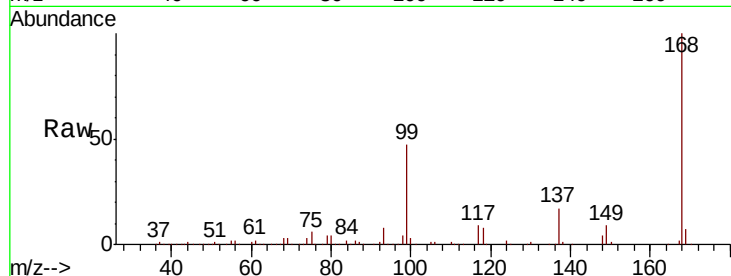
SY-4

Tot Ion:168 Resp: 246409

Ion Ratio Lower Upper

168 100

99 46.9 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

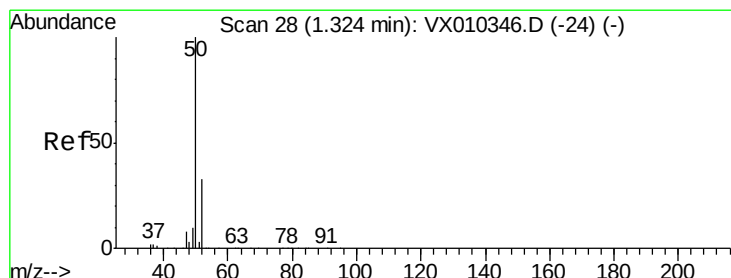
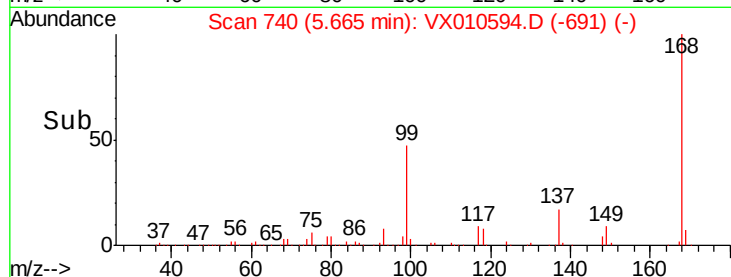
40000

20000

0

5.50 5.60 5.70 5.80 5.90

Time-->



#3

Chloromethane

Concen: 5.133 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX010594.D

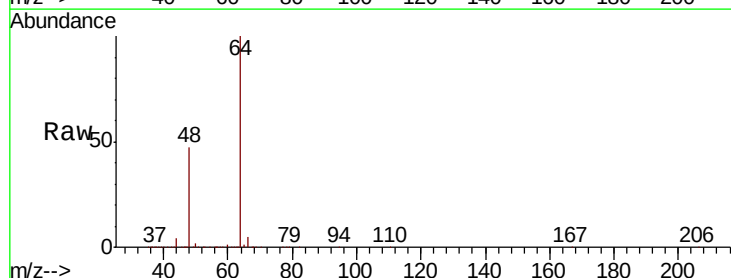
Acq: 01 Jul 2019 16:31

Tgt Ion: 50 Resp: 10240

Ion Ratio Lower Upper

50 100

52 4.0 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

2500

2000

1500

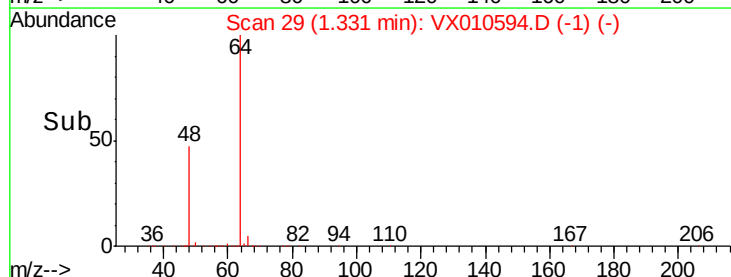
1000

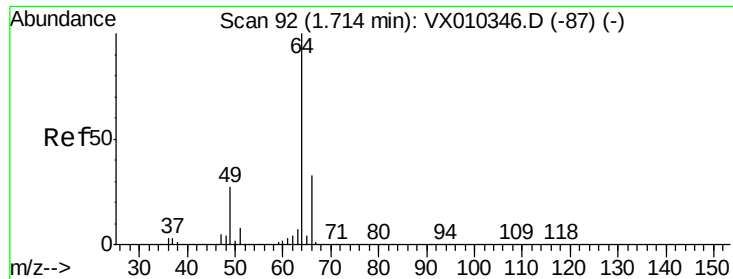
500

0

1.20 1.25 1.30 1.35 1.40

Time-->





#6

Chloroethane

Concen: 0.988 ug/l

RT: 1.88 min Scan# 119

Delta R.T. 0.16 min

Lab File: VX010594.D

Acq: 01 Jul 2019 16:31

Instrument :

MSVOA\_X

ClientSampled :

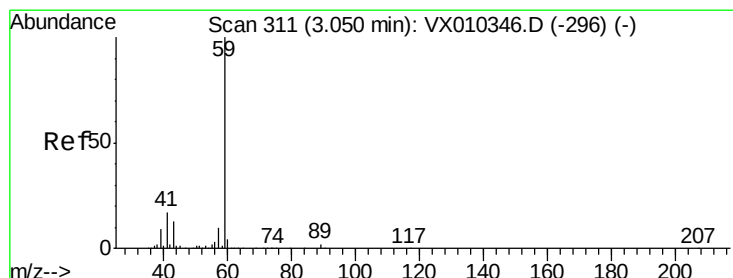
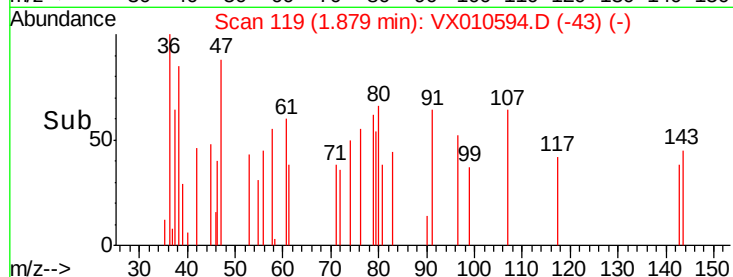
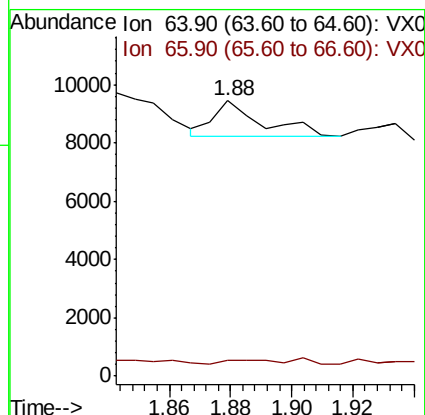
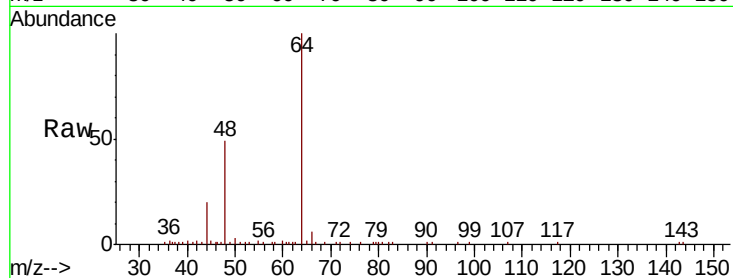
SY-4

Tot Ion: 64 Resp: 1274

Ion Ratio Lower Upper

64 100

66 9.2 26.6 40.0#



#11

Tert butyl alcohol

Concen: 2.334 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.02 min

Lab File: VX010594.D

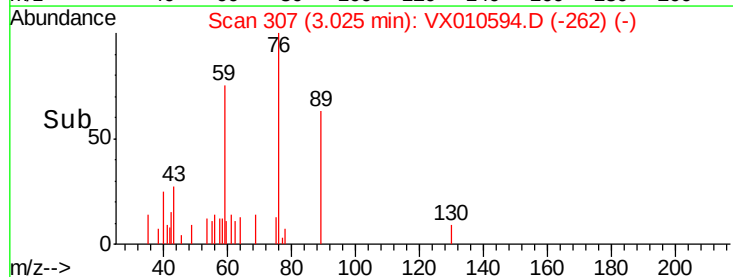
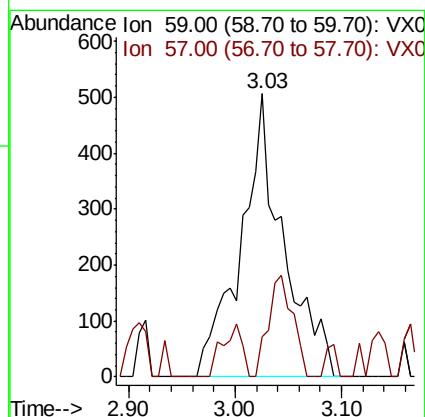
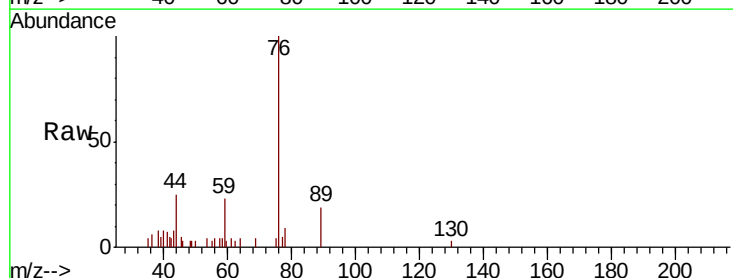
Acq: 01 Jul 2019 16:31

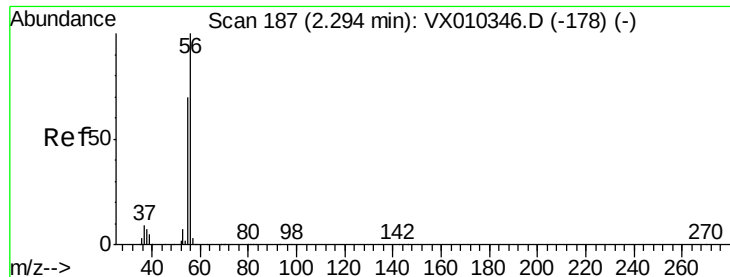
Tgt Ion: 59 Resp: 1411

Ion Ratio Lower Upper

59 100

57 20.6 7.7 11.5#





#13

Acrolein

Concen: 0.421 ug/l

RT: 2.28 min Scan# 185

Delta R.T. -0.01 min

Lab File: VX010594.D

Acq: 01 Jul 2019 16:31

Instrument :

MSVOA\_X

ClientSampled :

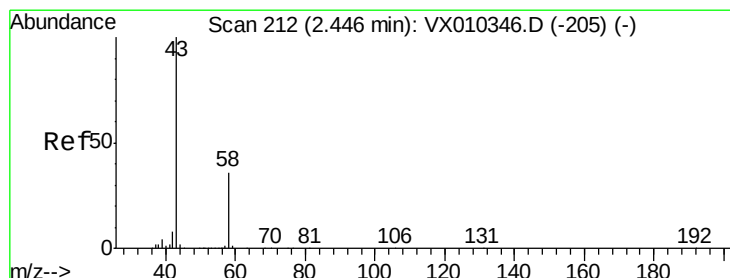
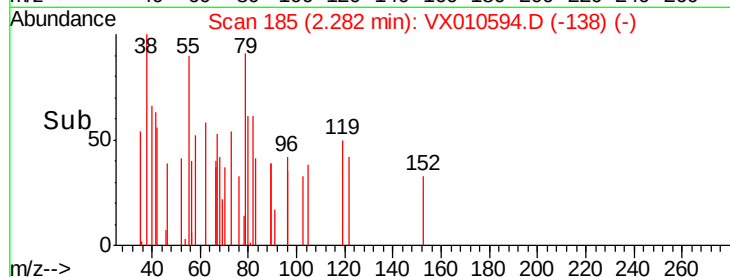
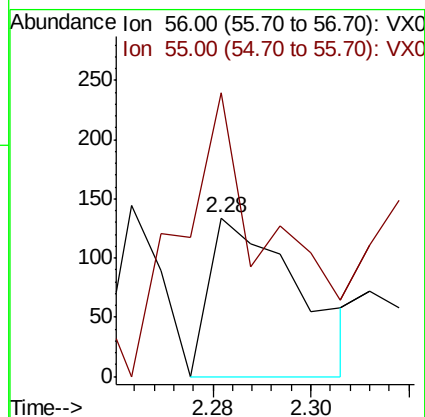
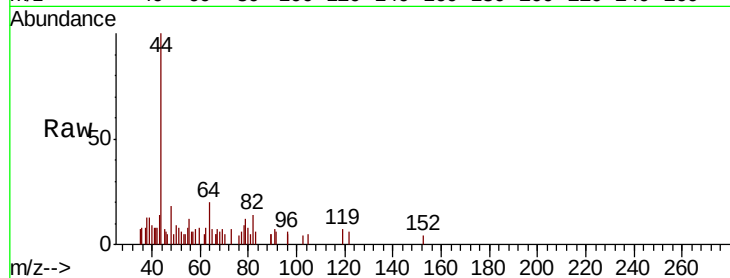
SY-4

Tot Ion: 56 Resp: 169

Ion Ratio Lower Upper

56 100

55 187.0 56.9 85.3#



#16

Acetone

Concen: 2.202 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX010594.D

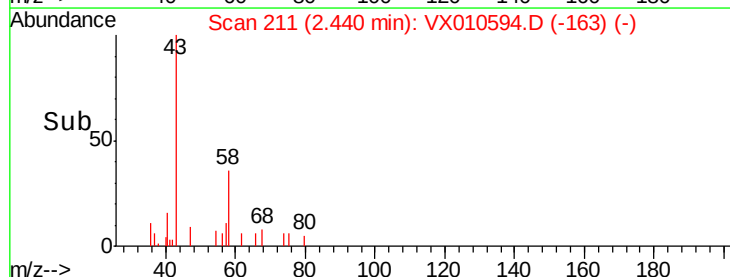
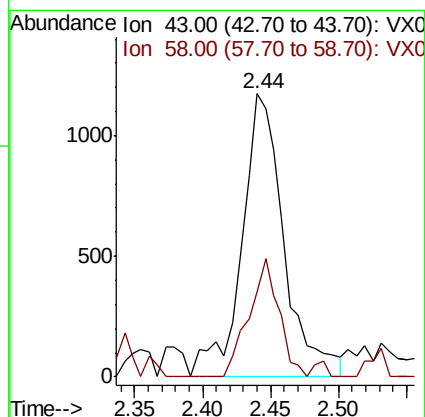
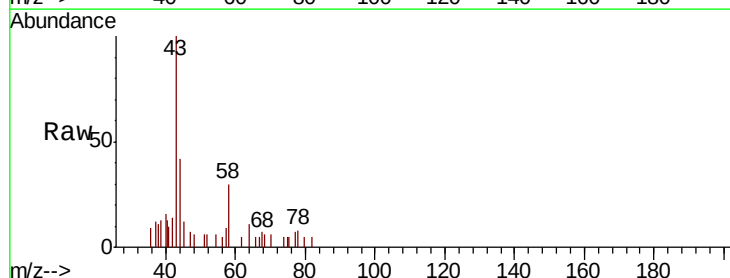
Acq: 01 Jul 2019 16:31

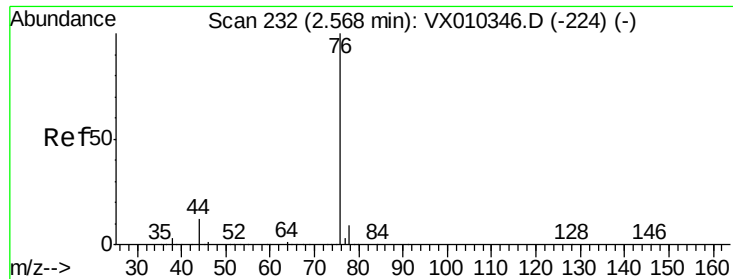
Tgt Ion: 43 Resp: 2550

Ion Ratio Lower Upper

43 100

58 30.0 28.9 43.3

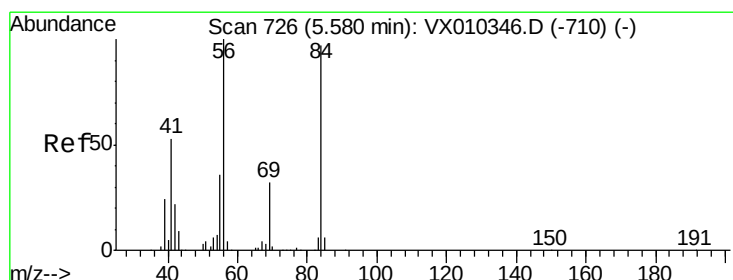
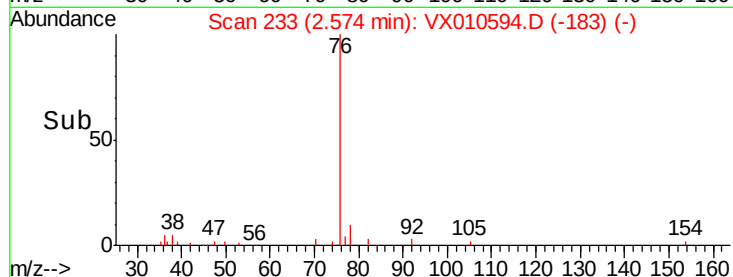
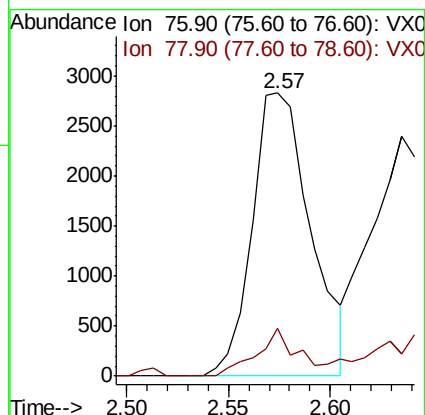
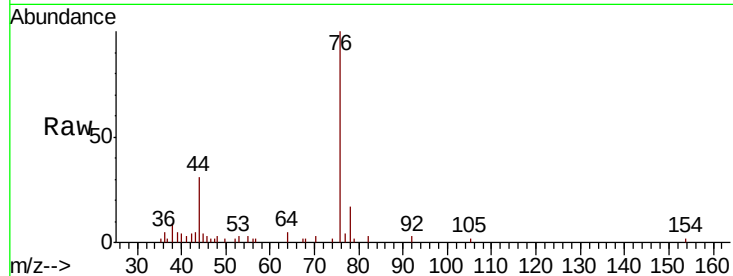




#17  
Carbon Disulfide  
Concen: 0.988 ug/l  
RT: 2.57 min Scan# 233  
Delta R.T. 0.01 min  
Lab File: VX010594.D  
Acq: 01 Jul 2019 16:31

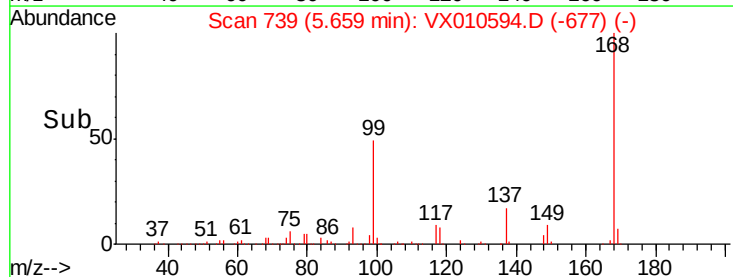
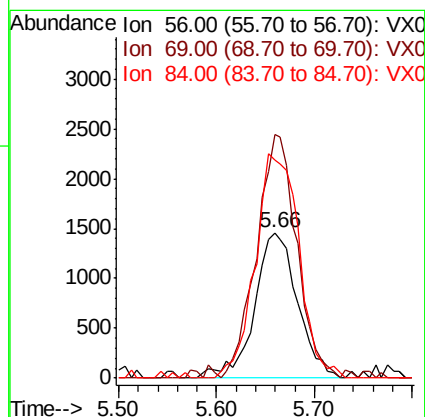
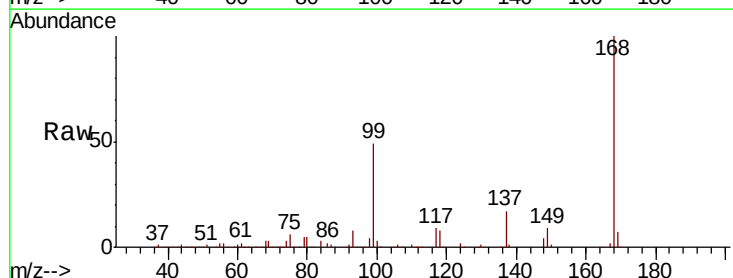
Instrument :  
MSVOA\_X  
ClientSampleId :  
SY-4

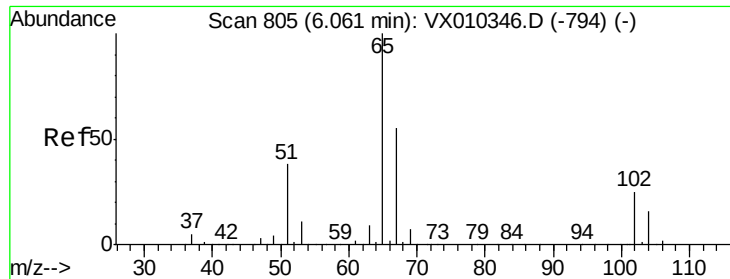
Tot Ion: 76 Resp: 5662  
Ion Ratio Lower Upper  
76 100  
78 16.7 7.3 10.9#



#31  
Cyclohexane  
Concen: 1.335 ug/l  
RT: 5.66 min Scan# 739  
Delta R.T. 0.08 min  
Lab File: VX010594.D  
Acq: 01 Jul 2019 16:31

Tgt Ion: 56 Resp: 4456  
Ion Ratio Lower Upper  
56 100  
69 167.5 25.9 38.9#  
84 150.4 78.0 117.0#

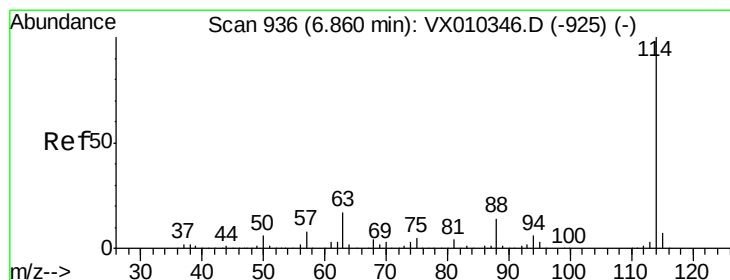
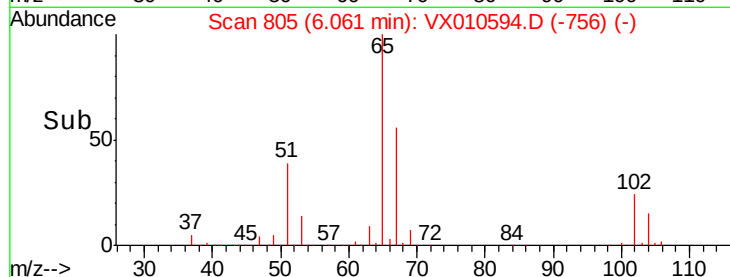
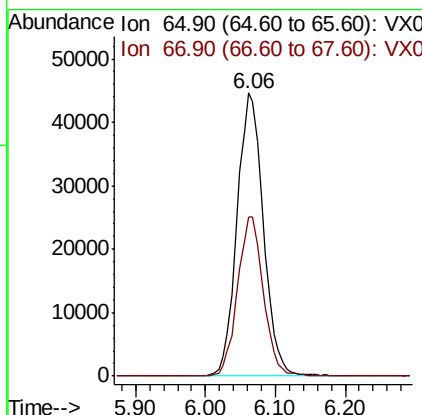
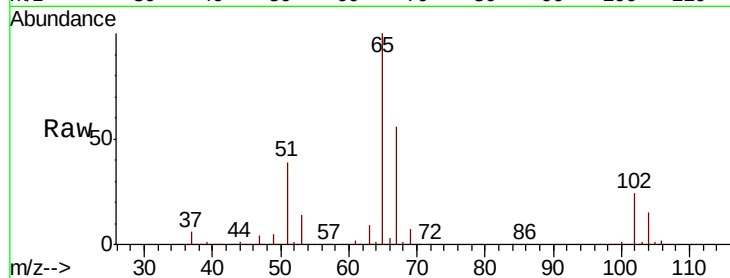




#33  
 1,2-Dichloroethane-d4  
 Concen: 50.560 ug/l  
 RT: 6.06 min Scan# 805  
 Delta R.T. 0.00 min  
 Lab File: VX010594.D  
 Acq: 01 Jul 2019 16:31

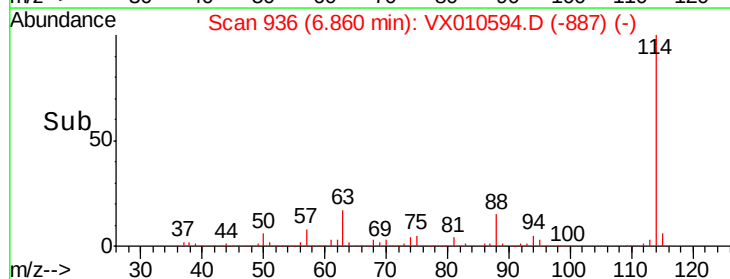
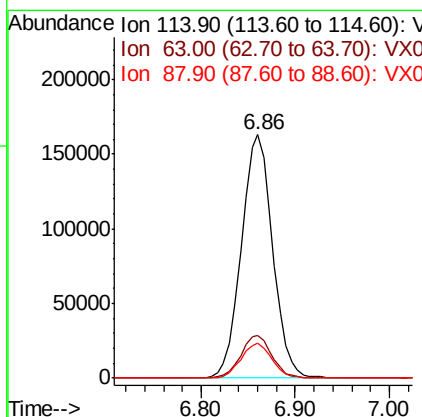
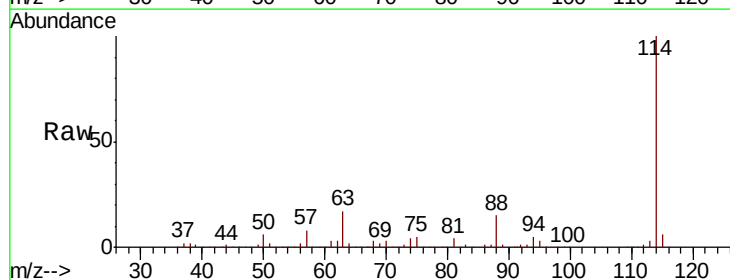
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SY-4

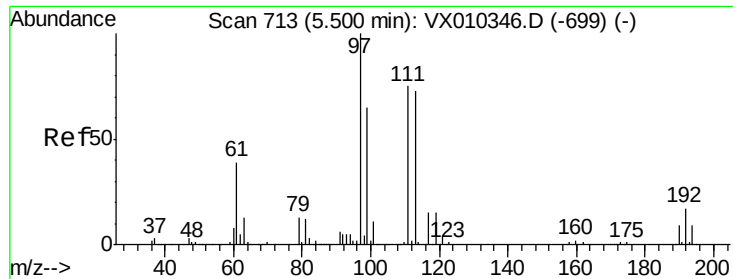
Tot Ion: 65 Resp: 116810  
 Ion Ratio Lower Upper  
 65 100  
 67 55.1 0.0 110.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. 0.00 min  
 Lab File: VX010594.D  
 Acq: 01 Jul 2019 16:31

Tgt Ion: 114 Resp: 378177  
 Ion Ratio Lower Upper  
 114 100  
 63 17.4 0.0 33.8  
 88 14.5 0.0 27.6

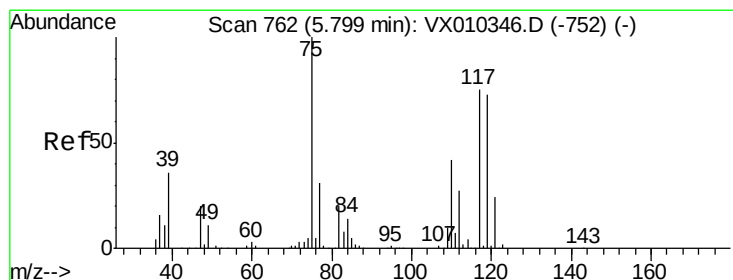
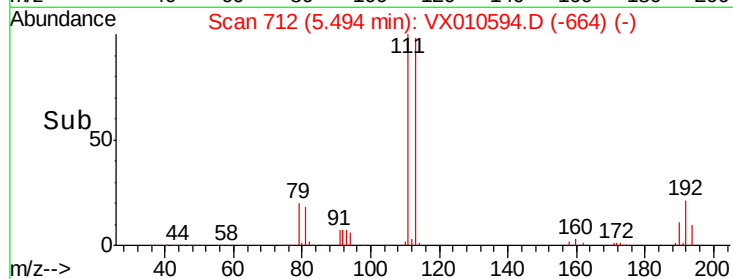
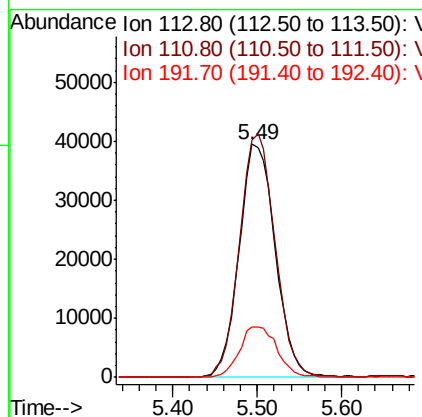
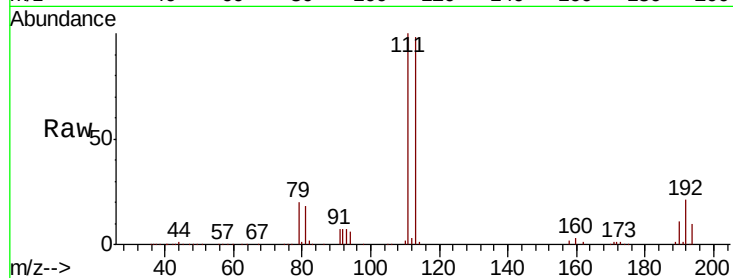




#35  
 Dibromofluoromethane  
 Concen: 49.474 ug/l  
 RT: 5.49 min Scan# 712  
 Delta R.T. -0.01 min  
 Lab File: VX010594.D  
 Acq: 01 Jul 2019 16:31

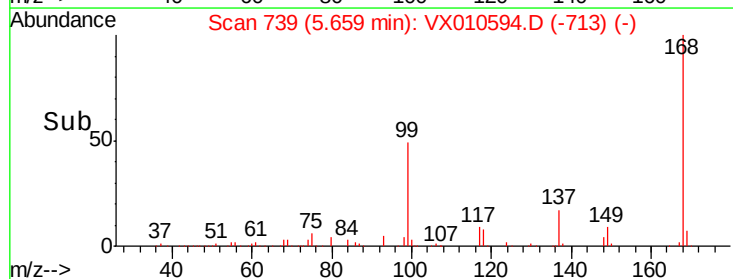
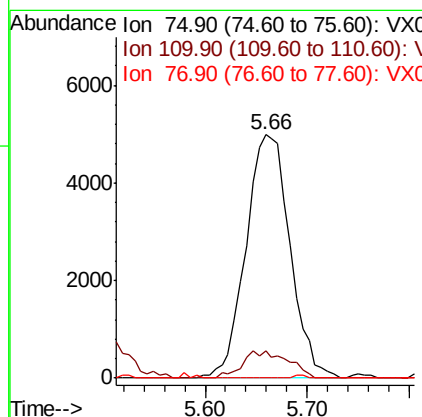
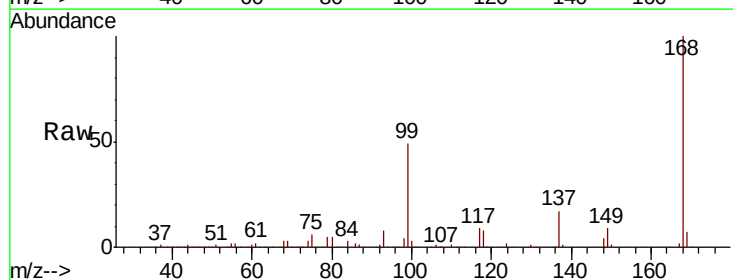
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 SY-4

Tot Ion:113 Resp: 114475  
 Ion Ratio Lower Upper  
 113 100  
 111 102.9 81.2 121.8  
 192 22.7 18.6 27.8

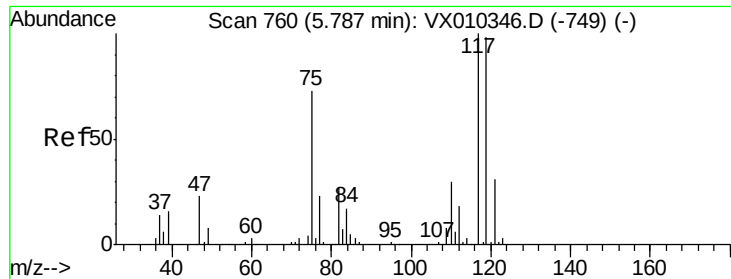


#36  
 1,1-Dichloropropene  
 Concen: 4.970 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.14 min  
 Lab File: VX010594.D  
 Acq: 01 Jul 2019 16:31

Tgt Ion: 75 Resp: 14937  
 Ion Ratio Lower Upper  
 75 100  
 110 11.6 20.8 62.2#  
 77 0.0 25.4 38.0#







#38

Carbon Tetrachloride

Concen: 6.838 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX010594.D

Acq: 01 Jul 2019 16:31

Instrument :

MSVOA\_X

ClientSampled :

SY-4

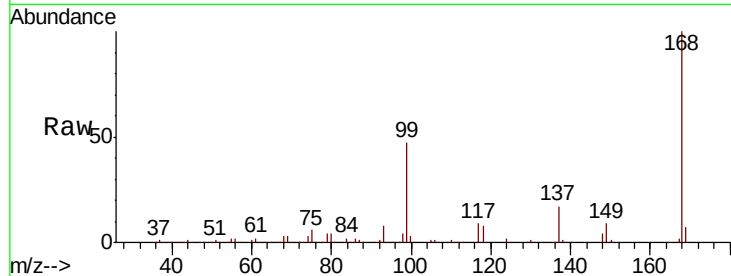
Tot Ion:117 Resp: 22253

Ion Ratio Lower Upper

117 100

119 4.0 78.2 117.4#

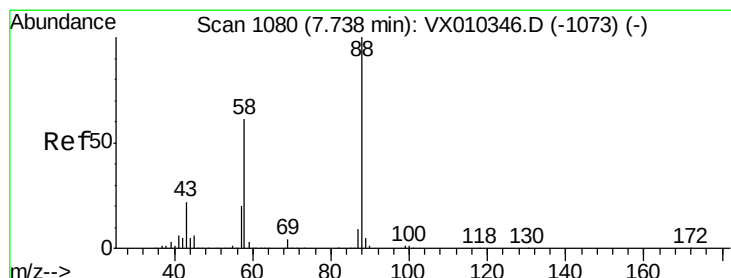
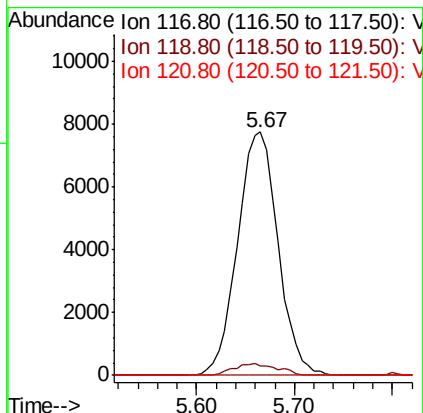
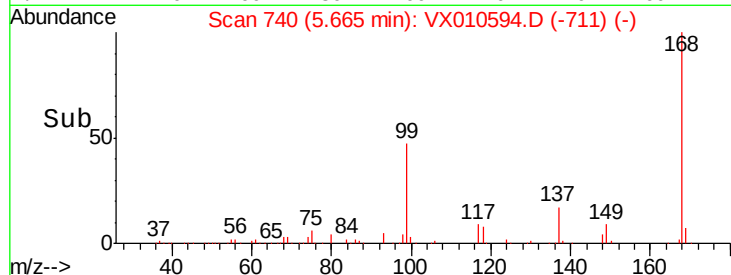
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 0.569 ug/l

RT: 7.75 min Scan# 1082

Delta R.T. 0.01 min

Lab File: VX010594.D

Acq: 01 Jul 2019 16:31

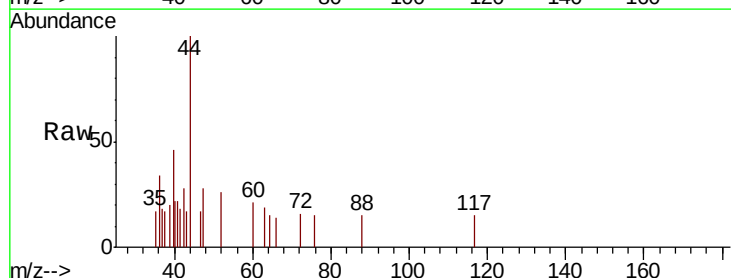
Tgt Ion: 88 Resp: 39

Ion Ratio Lower Upper

88 100

43 0.0 20.2 30.2#

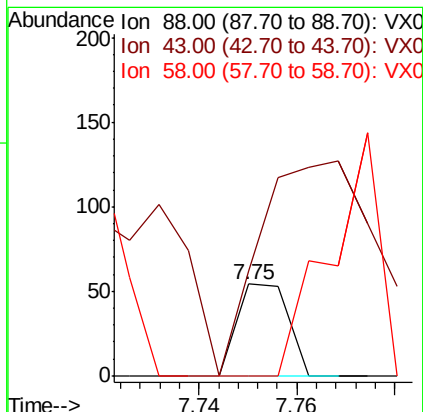
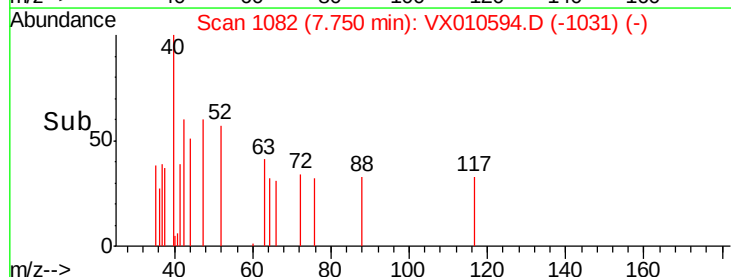
58 0.0 49.5 74.3#

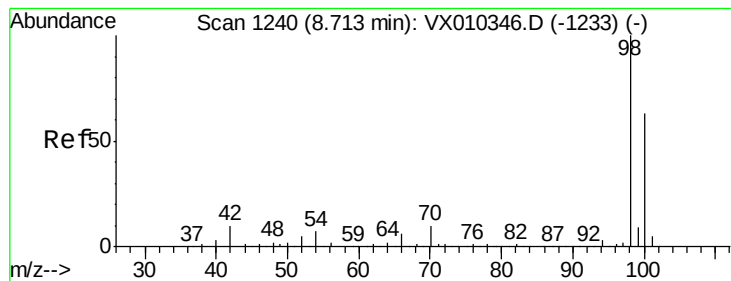


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 50.376 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX010594.D

Acq: 01 Jul 2019 16:31

Instrument :

MSVOA\_X

ClientSampleId :

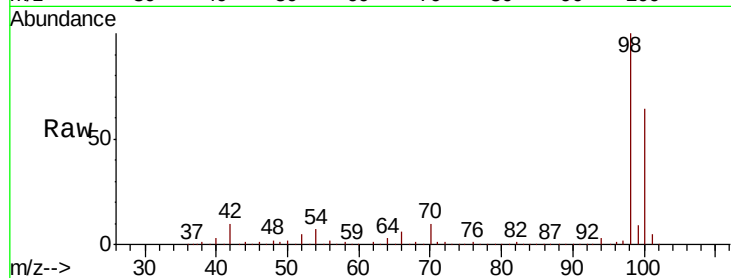
SY-4

Tot Ion: 98 Resp: 445942

Ion Ratio Lower Upper

98 100

100 63.8 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.71

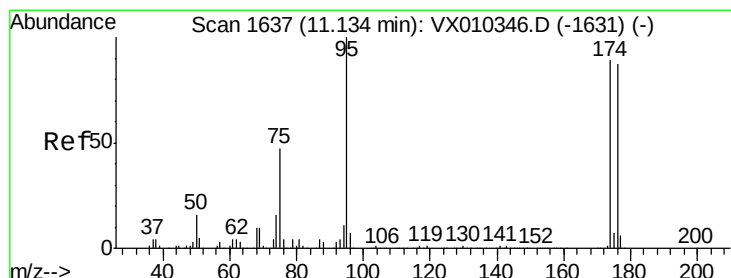
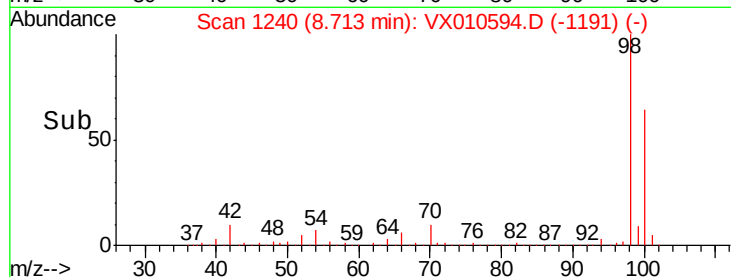
300000

200000

100000

0

Time--> 8.60 8.70 8.80



#62

4-Bromofluorobenzene

Concen: 46.973 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010594.D

Acq: 01 Jul 2019 16:31

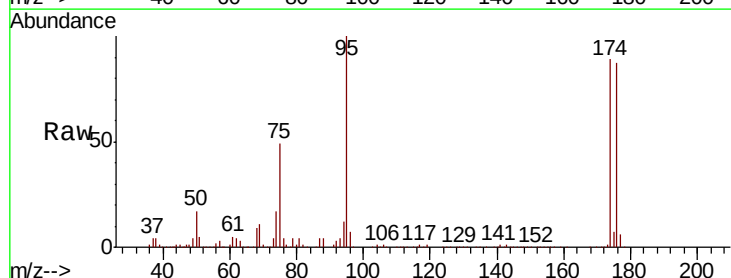
Tgt Ion: 95 Resp: 150120

Ion Ratio Lower Upper

95 100

174 95.6 0.0 187.6

176 92.4 0.0 184.0



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

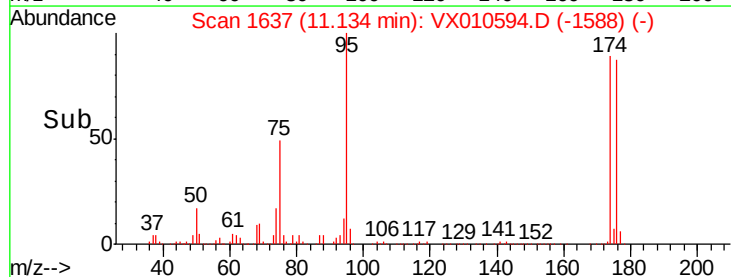
150000

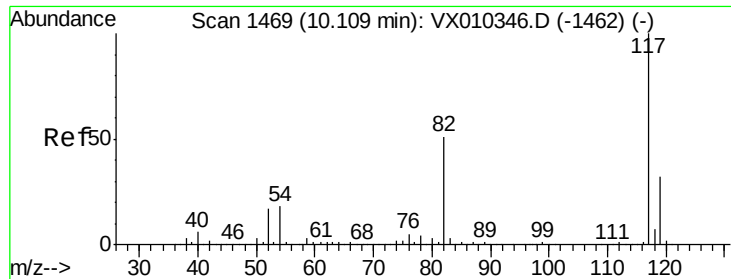
100000

50000

0

Time--> 11.10 11.20

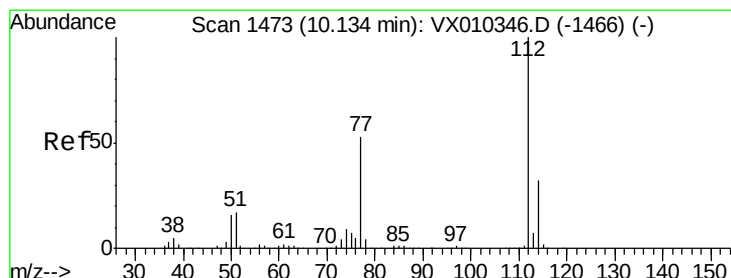
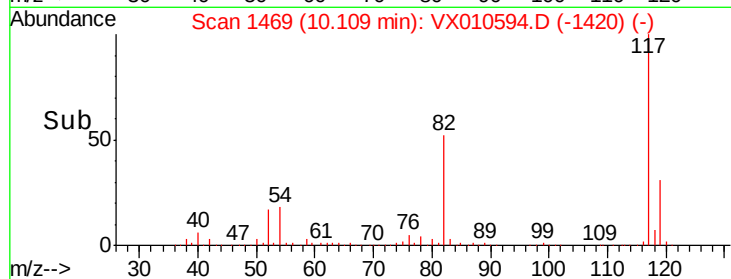
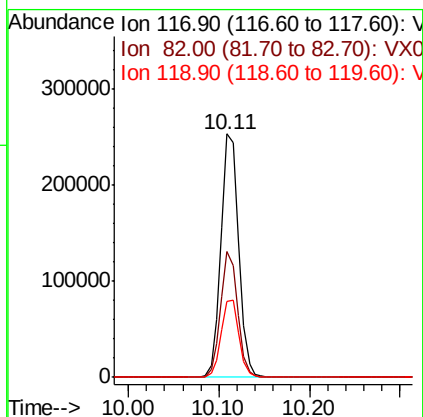
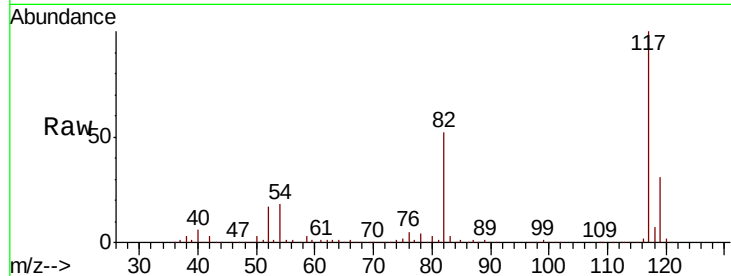




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX010594.D  
Acq: 01 Jul 2019 16:31

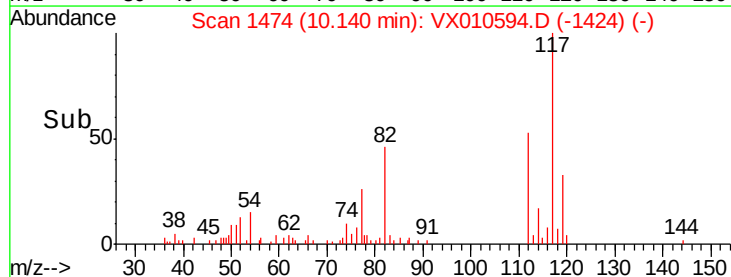
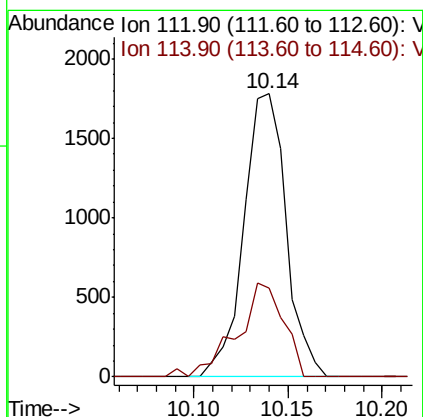
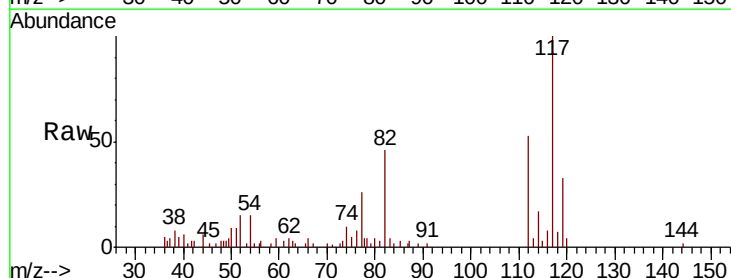
Instrument :  
MSVOA\_X  
ClientSampleId :  
SY-4

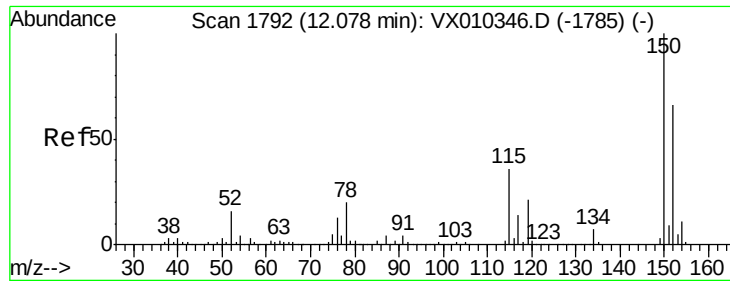
Tot Ion:117 Resp: 347251  
Ion Ratio Lower Upper  
117 100  
82 51.6 41.2 61.8  
119 31.3 25.5 38.3



#65  
Chlorobenzene  
Concen: 0.393 ug/l  
RT: 10.14 min Scan# 1474  
Delta R.T. 0.01 min  
Lab File: VX010594.D  
Acq: 01 Jul 2019 16:31

Tgt Ion:112 Resp: 2773  
Ion Ratio Lower Upper  
112 100  
114 31.2 25.4 38.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX010594.D

Acq: 01 Jul 2019 16:31

Instrument :

MSVOA\_X

ClientSampled :

SY-4

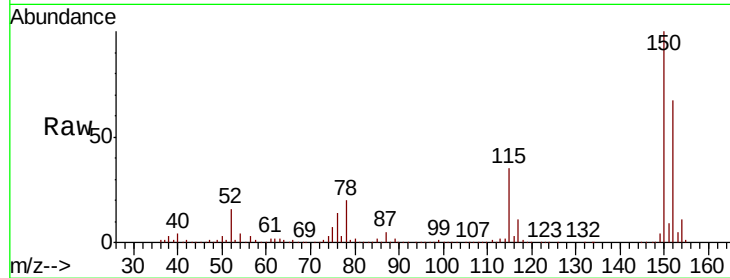
Tot Ion:152 Resp: 160885

Ion Ratio Lower Upper

152 100

115 54.3 38.6 115.7

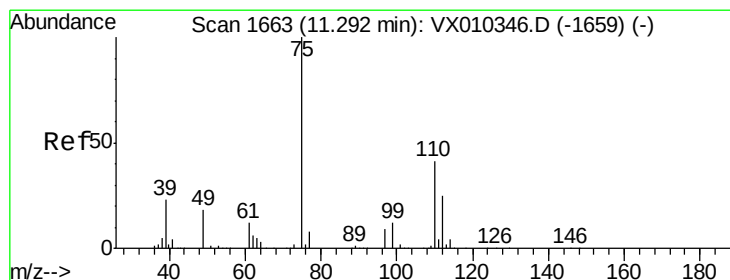
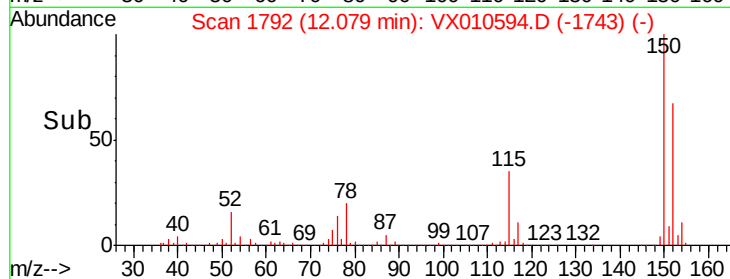
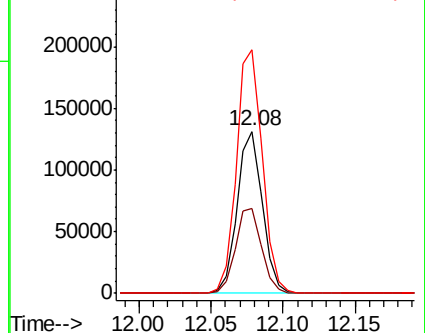
150 154.6 0.0 347.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 24.855 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX010594.D

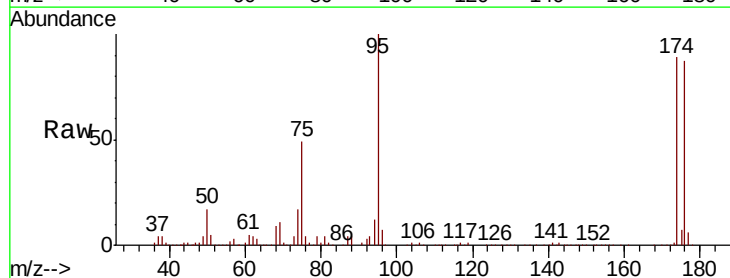
Acq: 01 Jul 2019 16:31

Tgt Ion: 75 Resp: 72870

Ion Ratio Lower Upper

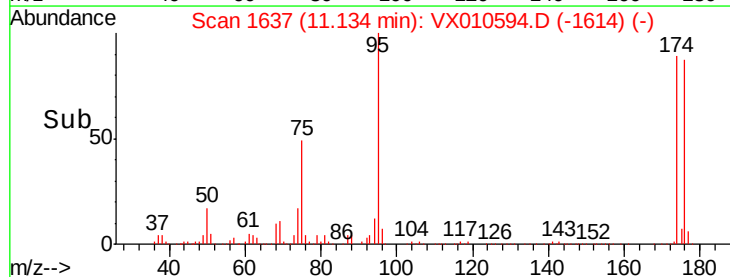
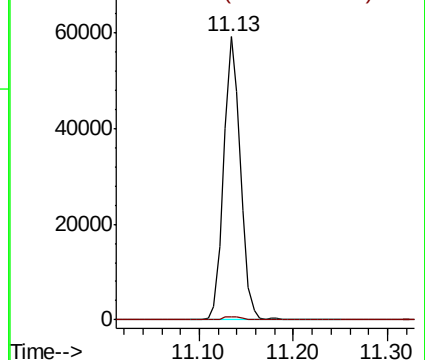
75 100

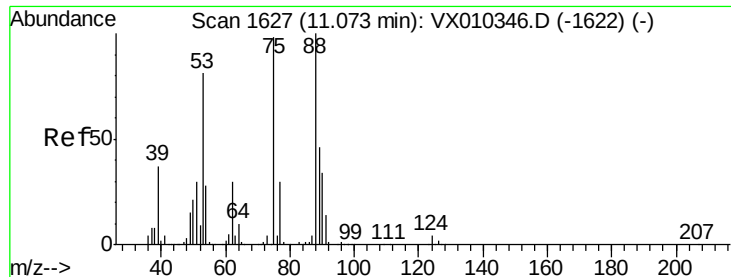
77 1.5 22.6 67.8#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

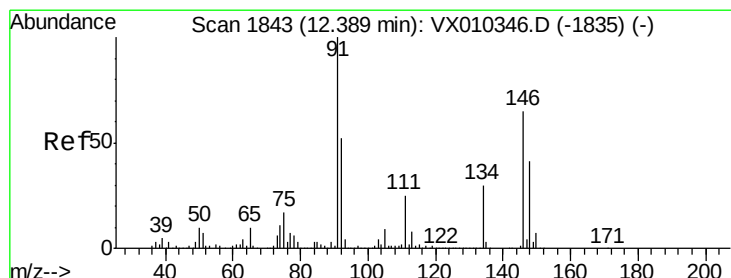
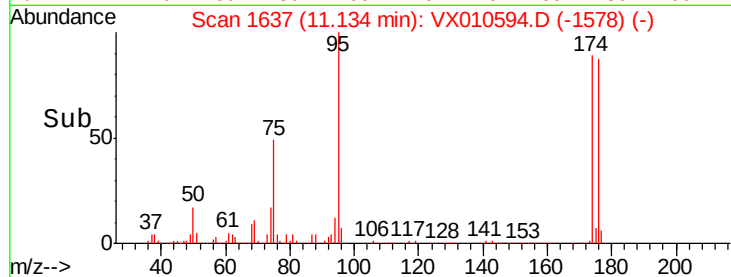
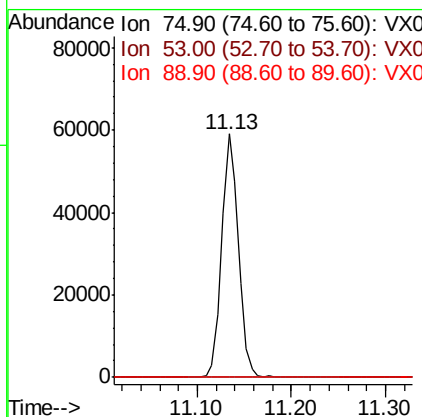
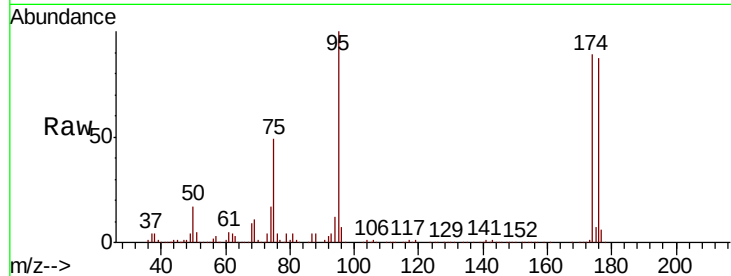




#81  
trans-1,4-Dichloro-2-butene  
Concen: 57.985 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. 0.06 min  
Lab File: VX010594.D  
Acq: 01 Jul 2019 16:31

Instrument :  
MSVOA\_X  
ClientSampled :  
SY-4

Tot Ion: 75 Resp: 72870  
Ion Ratio Lower Upper  
75 100  
53 0.2 66.1 99.1#  
89 0.1 37.8 56.6#



#91  
1,2-Dichlorobenzene  
Concen: 0.205 ug/l  
RT: 12.39 min Scan# 1843  
Delta R.T. 0.00 min  
Lab File: VX010594.D  
Acq: 01 Jul 2019 16:31

Tgt Ion:146 Resp: 1082  
Ion Ratio Lower Upper  
146 100  
111 46.5 19.2 57.6  
148 65.9 32.0 96.0

