

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\VX082319\  
 Data File : VX011795.D  
 Acq On : 23 Aug 2019 14:06  
 Operator : JC/SP  
 Sample : K4388-19  
 Misc : 5.77g/5mL/100uL/10mL/MSVOA\_X/MEOH  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 T6-E3-(0)

Quant Time: Aug 26 01:54:01 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082219W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 23 01:48:12 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.65  | 168  | 457040   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.85  | 114  | 613355   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 552735   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 299886   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 6.05   | 65  | 206841   | 45.05 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 90.10%  |      |
| 35) Dibromofluoromethane  | 5.49   | 113 | 167731   | 42.29 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 84.58%  |      |
| 50) Toluene-d8            | 8.71   | 98  | 696206   | 50.33 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.66% |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 253817   | 46.42 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 92.84%  |      |

## Target Compounds

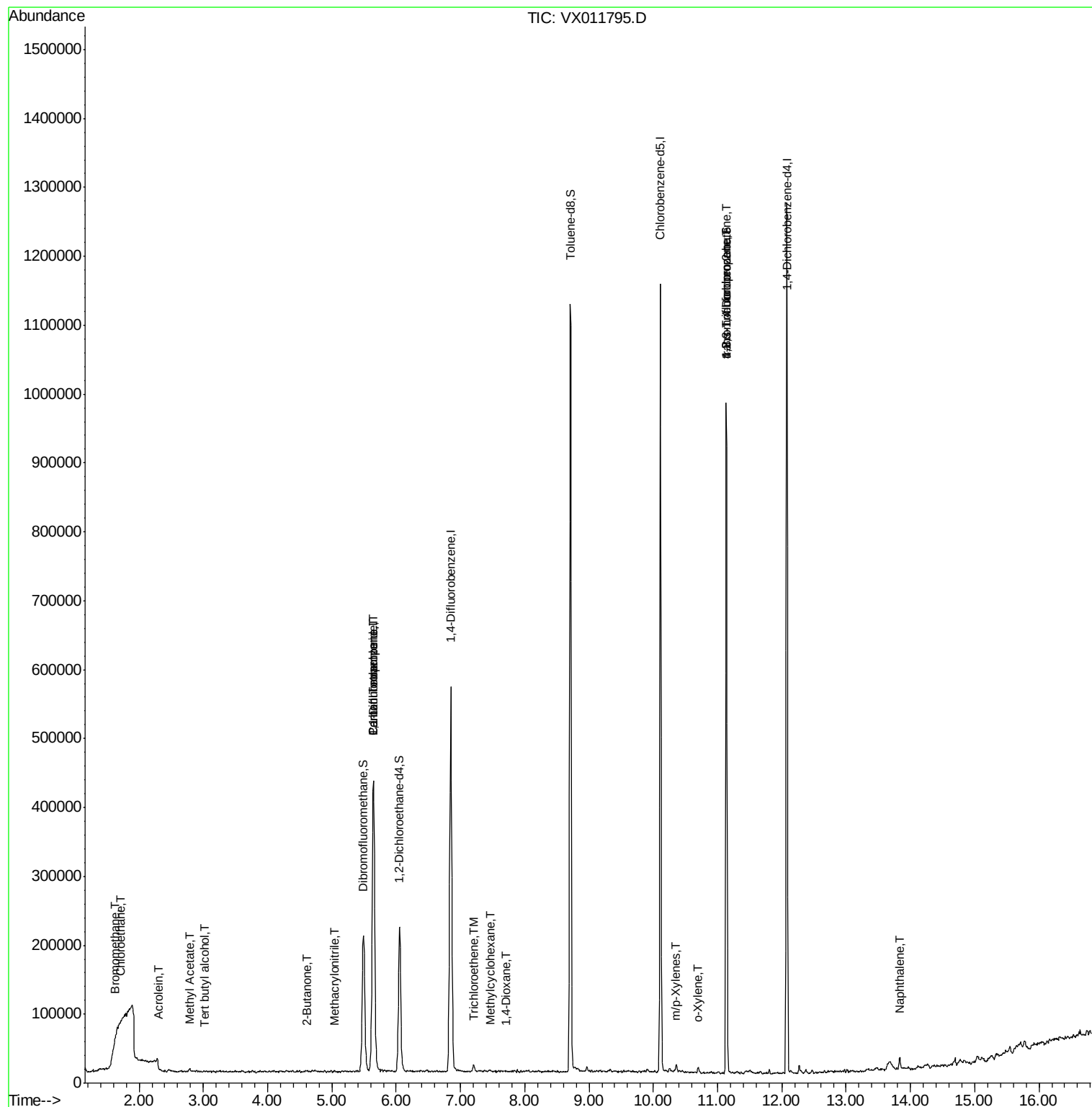
|                                |       |     |        |        |        | Qvalue |
|--------------------------------|-------|-----|--------|--------|--------|--------|
| 5) Bromomethane                | 1.62  | 94  | 1196   | 0.581  | ug/l # | 70     |
| 6) Chloroethane                | 1.72  | 64  | 590    | 0.270  | ug/l # | 24     |
| 11) Tert butyl alcohol         | 3.02  | 59  | 419    | 0.462  | ug/l # | 1      |
| 13) Acrolein                   | 2.30  | 56  | 609    | 1.737  | ug/l # | 16     |
| 18) Methyl Acetate             | 2.79  | 43  | 5678   | 1.048  | ug/l   | 97     |
| 25) 2-Butanone                 | 4.61  | 43  | 699    | 0.244  | ug/l # | 69     |
| 36) 1,1-Dichloropropene        | 5.64  | 75  | 27088  | 5.632  | ug/l # | 40     |
| 38) Carbon Tetrachloride       | 5.64  | 117 | 38699  | 7.100  | ug/l # | 17     |
| 39) Methylcyclohexane          | 7.46  | 83  | 1804   | 0.303  | ug/l # | 89     |
| 41) Methacrylonitrile          | 5.05  | 41  | 606    | 0.205  | ug/l # | 58     |
| 44) Trichloroethene            | 7.21  | 130 | 4314   | 0.941  | ug/l   | 92     |
| 49) 1,4-Dioxane                | 7.70  | 88  | 398    | 3.504  | ug/l # | 91     |
| 68) m/p-Xylenes                | 10.36 | 106 | 3098   | 0.446  | ug/l   | 76     |
| 69) o-Xylene                   | 10.70 | 106 | 1761   | 0.258  | ug/l   | 92     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75  | 114296 | 21.721 | ug/l # | 36     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75  | 114296 | 65.505 | ug/l # | 11     |
| 95) Naphthalene                | 13.83 | 128 | 12222  | 0.652  | ug/l # | 91     |

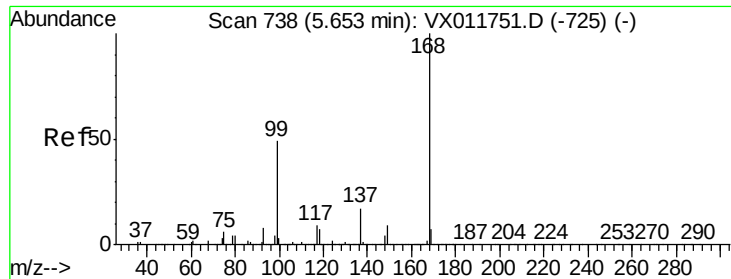
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_X  
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T6-E3-(0)

Quant Time: Aug 26 01:54:01 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X082219W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 23 01:48:12 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 737

Delta R.T. -0.01 min

Lab File: VX011795.D

Acq: 23 Aug 2019 14:06

Instrument :

MSVOA\_X

ClientSampleId :

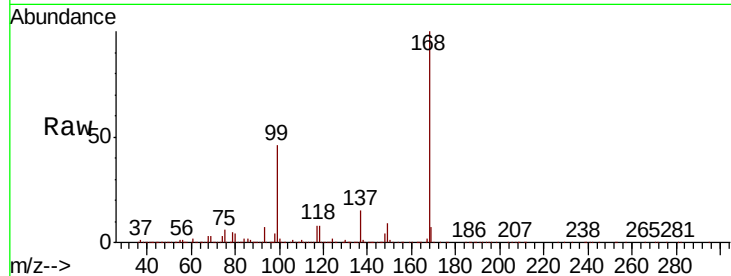
T6-E3-(0)

Tgt Ion:168 Resp: 457040

Ion Ratio Lower Upper

168 100

99 46.2 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

150000

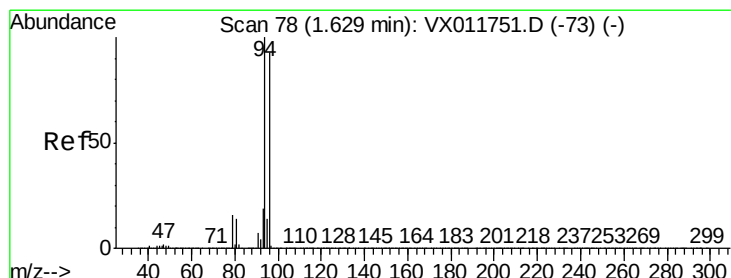
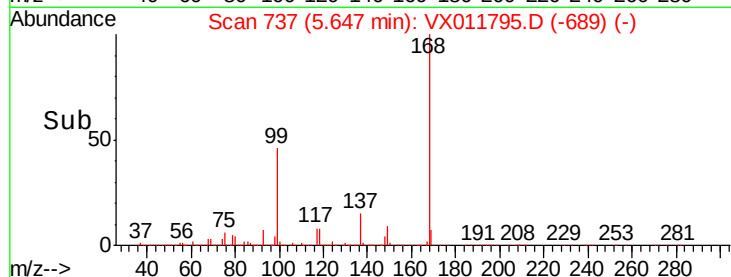
100000

50000

0

Time-->

5.50 5.60 5.70 5.80



#5

Bromomethane

Concen: 0.581 ug/l

RT: 1.62 min Scan# 77

Delta R.T. -0.01 min

Lab File: VX011795.D

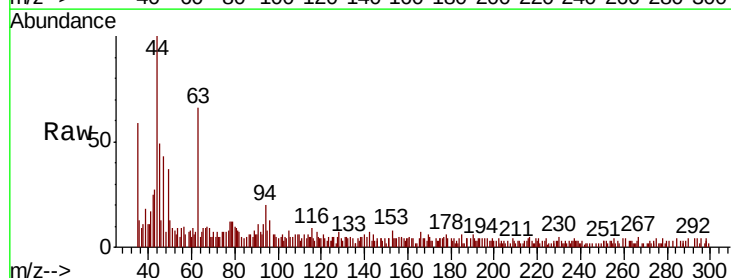
Acq: 23 Aug 2019 14:06

Tgt Ion: 94 Resp: 1196

Ion Ratio Lower Upper

94 100

96 64.3 74.1 111.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

800

600

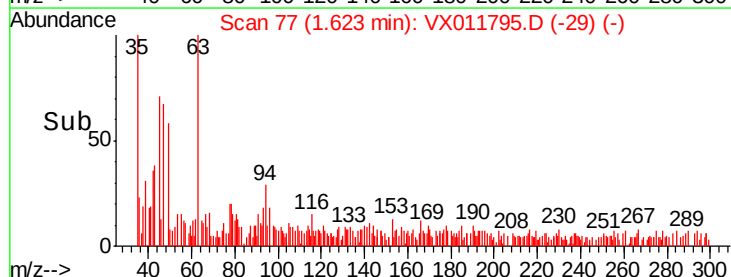
400

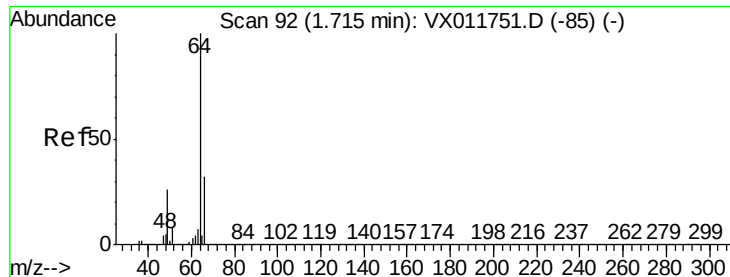
200

0

Time-->

1.50 1.55 1.60 1.65





#6

Chloroethane

Concen: 0.270 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX011795.D

Acq: 23 Aug 2019 14:06

Instrument :

MSVOA\_X

ClientSampleId :

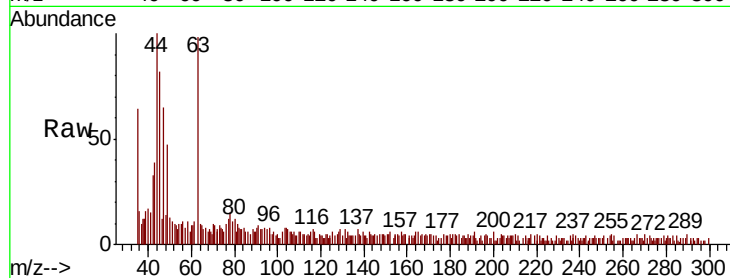
T6-E3-(0)

Tgt Ion: 64 Resp: 590

Ion Ratio Lower Upper

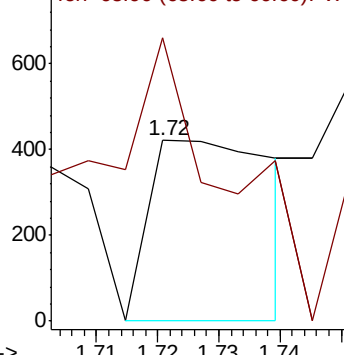
64 100

66 72.9 24.9 37.3#

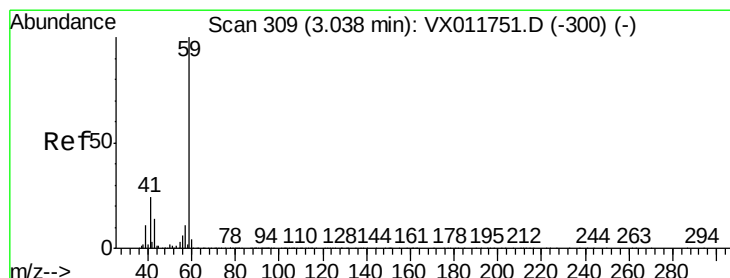
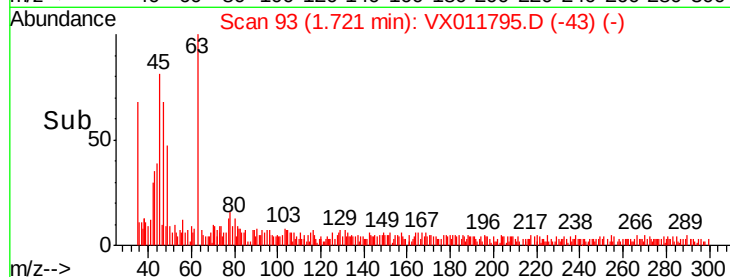


Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



Time-->



#11

Tert butyl alcohol

Concen: 0.462 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.02 min

Lab File: VX011795.D

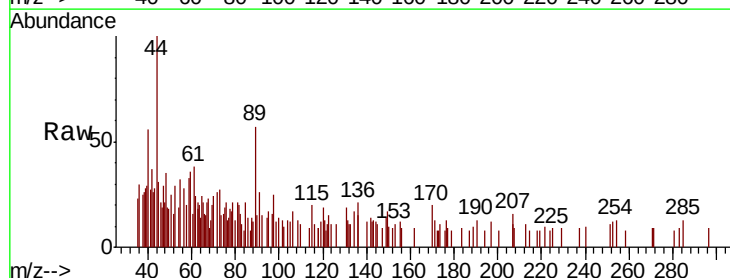
Acq: 23 Aug 2019 14:06

Tgt Ion: 59 Resp: 419

Ion Ratio Lower Upper

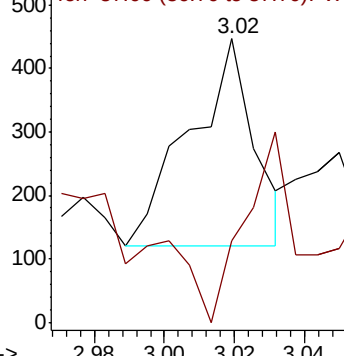
59 100

57 71.6 8.4 12.6#

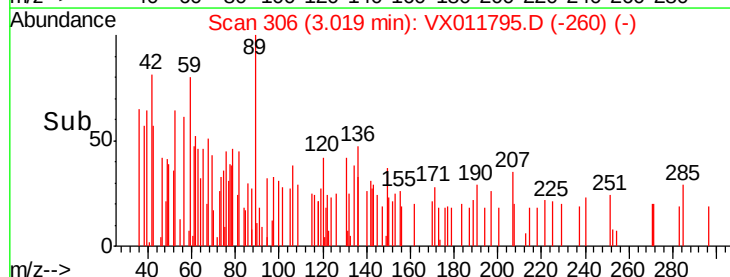


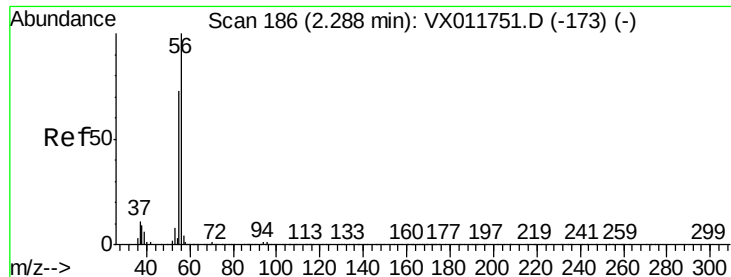
Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



Time-->





#13

Acrolein

Concen: 1.737 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX011795.D

Acq: 23 Aug 2019 14:06

Instrument :

MSVOA\_X

ClientSampleId :

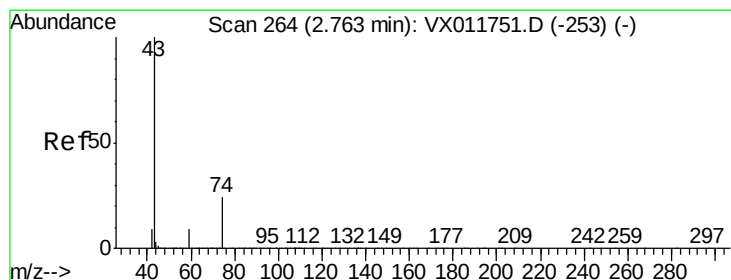
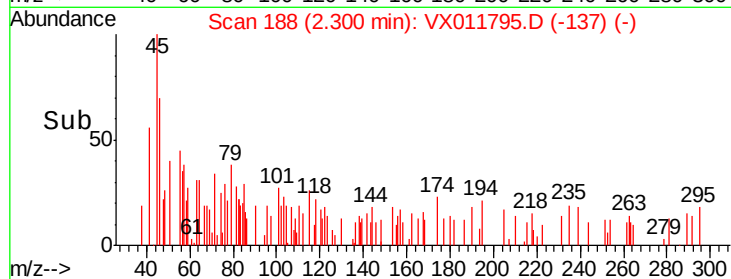
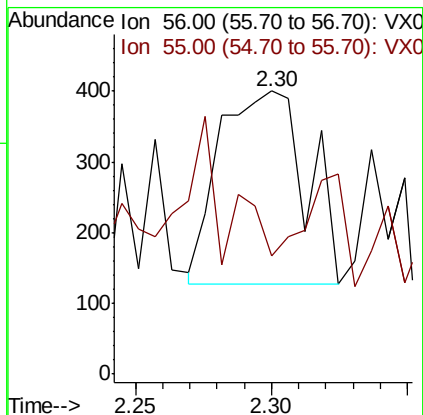
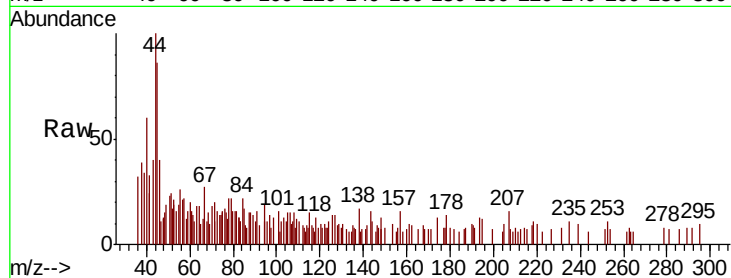
T6-E3-(0)

Tgt Ion: 56 Resp: 609

Ion Ratio Lower Upper

56 100

55 0.0 54.8 82.2#



#18

Methyl Acetate

Concen: 1.048 ug/l

RT: 2.79 min Scan# 268

Delta R.T. 0.02 min

Lab File: VX011795.D

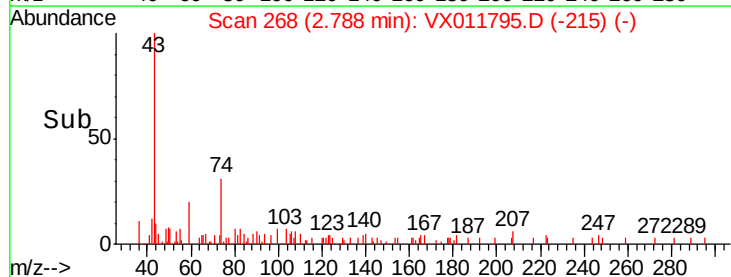
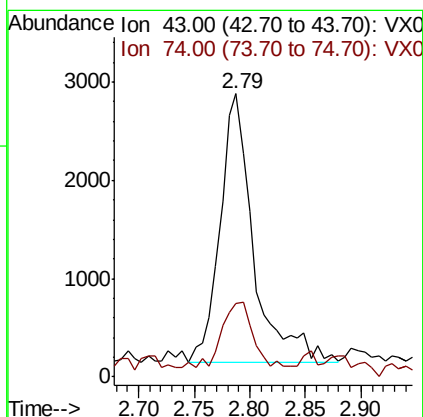
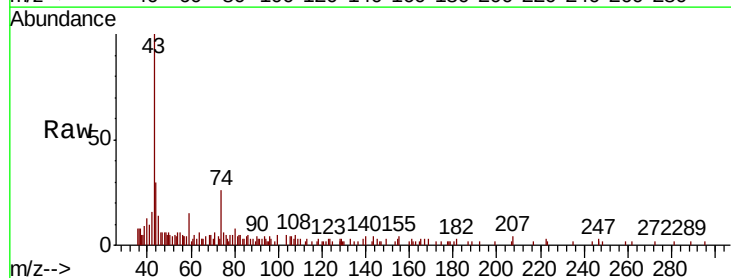
Acq: 23 Aug 2019 14:06

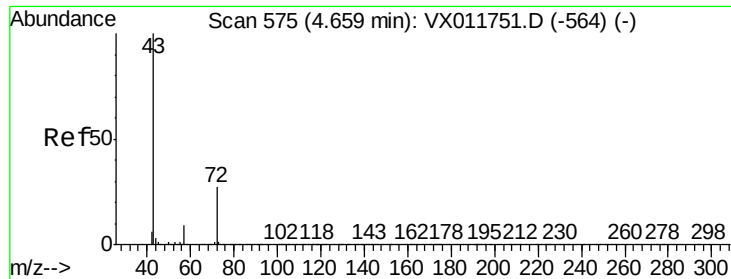
Tgt Ion: 43 Resp: 5678

Ion Ratio Lower Upper

43 100

74 25.9 19.5 29.3





#25

2-Butanone

Concen: 0.244 ug/l

RT: 4.61 min Scan# 567

Delta R.T. -0.05 min

Lab File: VX011795.D

Acq: 23 Aug 2019 14:06

Instrument :

MSVOA\_X

ClientSampled :

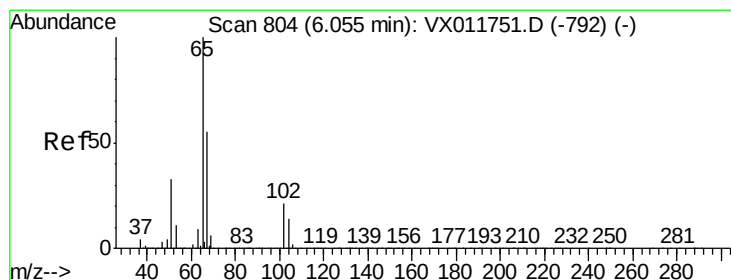
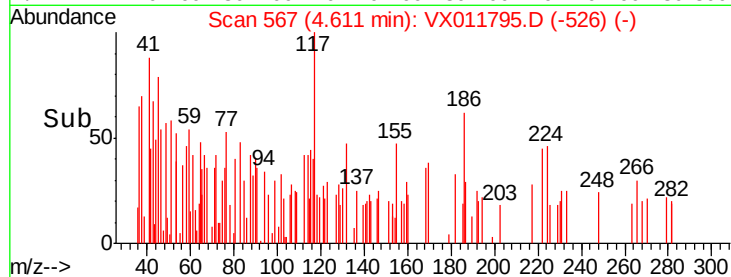
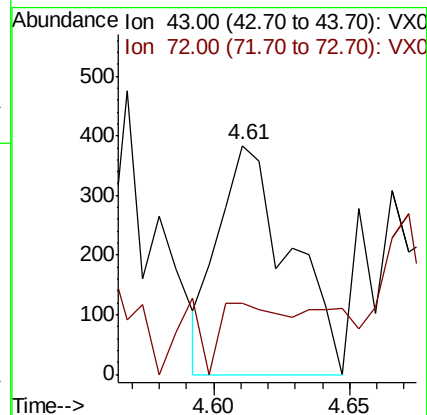
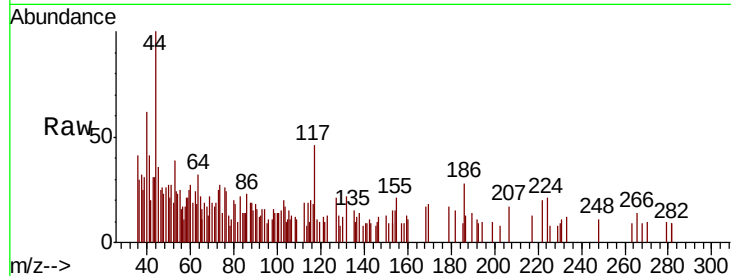
T6-E3-(0)

Tgt Ion: 43 Resp: 699

Ion Ratio Lower Upper

43 100

72 43.2 21.8 32.6#



#33

1,2-Dichloroethane-d4

Concen: 45.051 ug/l

RT: 6.05 min Scan# 803

Delta R.T. -0.01 min

Lab File: VX011795.D

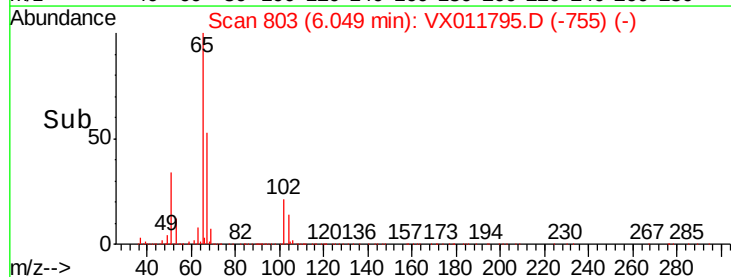
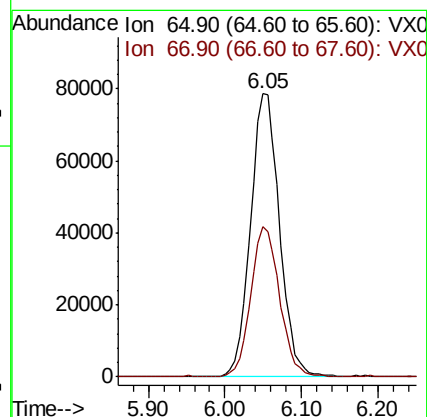
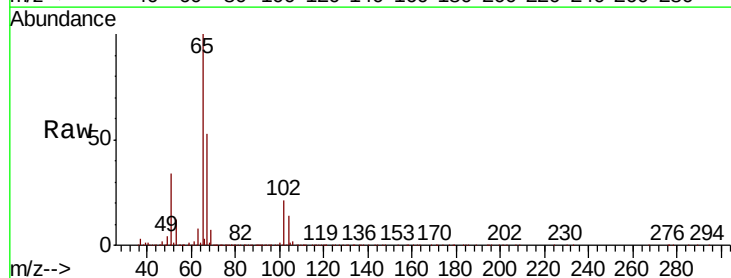
Acq: 23 Aug 2019 14:06

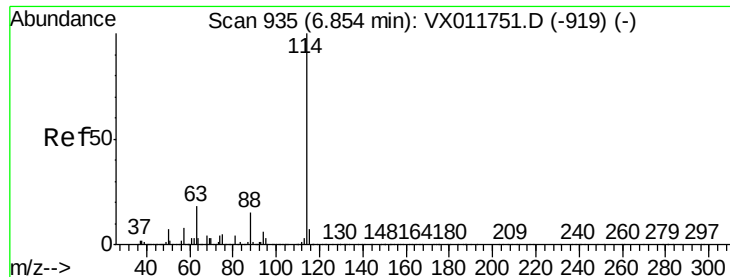
Tgt Ion: 65 Resp: 206841

Ion Ratio Lower Upper

65 100

67 53.1 0.0 107.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 934

Delta R.T. -0.01 min

Lab File: VX011795.D

Acq: 23 Aug 2019 14:06

Instrument :

MSVOA\_X

ClientSampleId :

T6-E3-(0)

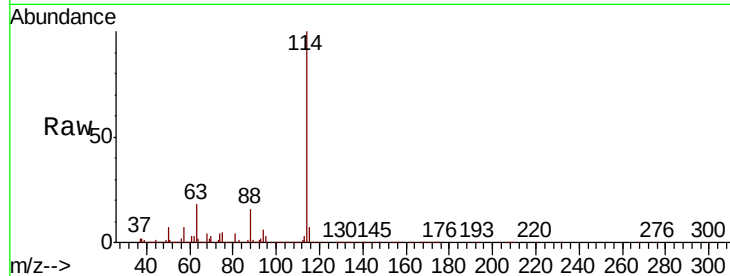
Tgt Ion:114 Resp: 613355

Ion Ratio Lower Upper

114 100

63 18.3 0.0 36.8

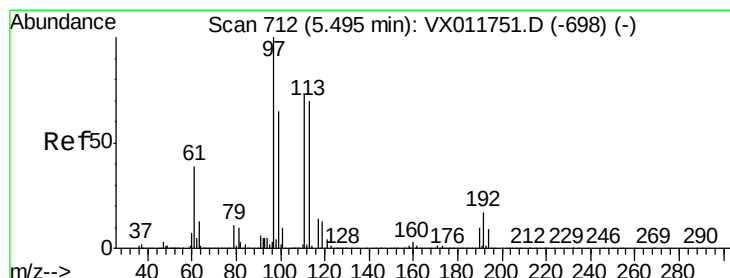
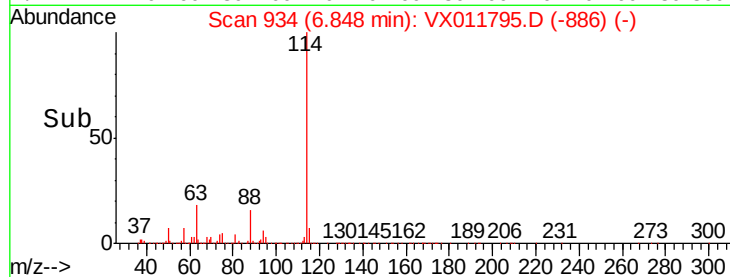
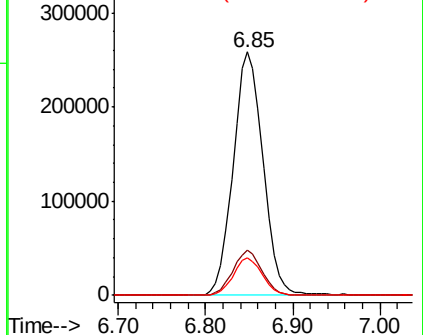
88 15.6 0.0 30.2



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: 42.290 ug/l

RT: 5.49 min Scan# 711

Delta R.T. -0.01 min

Lab File: VX011795.D

Acq: 23 Aug 2019 14:06

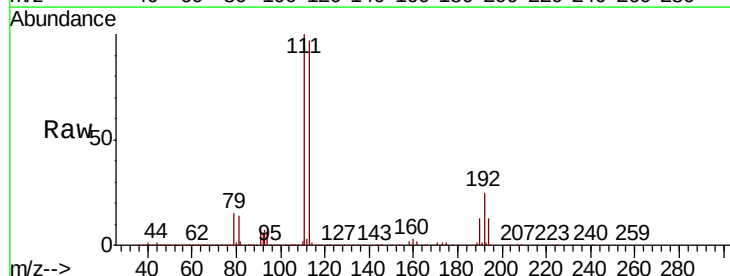
Tgt Ion:113 Resp: 167731

Ion Ratio Lower Upper

113 100

111 102.9 81.0 121.4

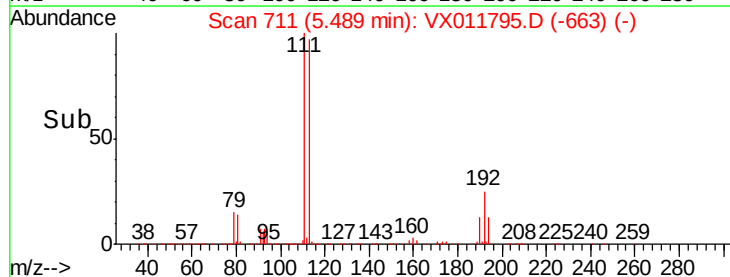
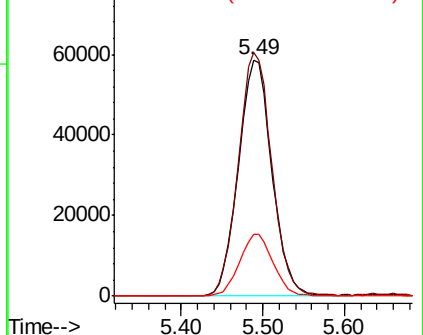
192 26.2 19.9 29.9

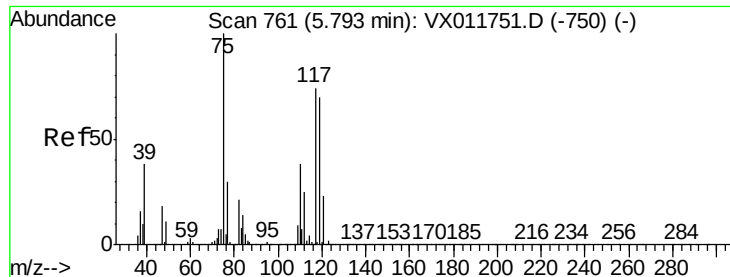


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.632 ug/l

RT: 5.64 min Scan# 736

Delta R.T. -0.15 min

Lab File: VX011795.D

Acq: 23 Aug 2019 14:06

Instrument :

MSVOA\_X

ClientSampleId :

T6-E3-(0)

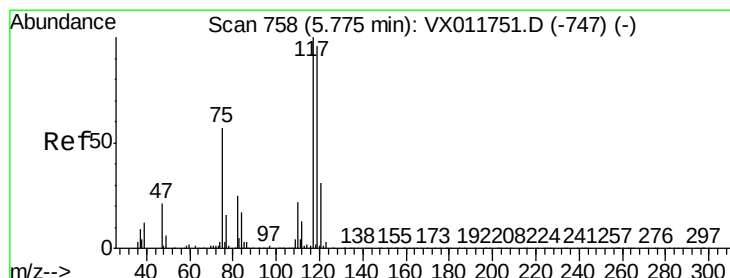
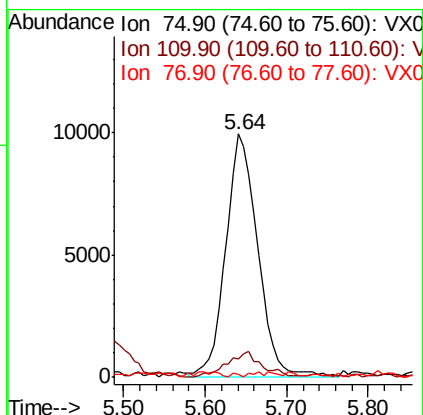
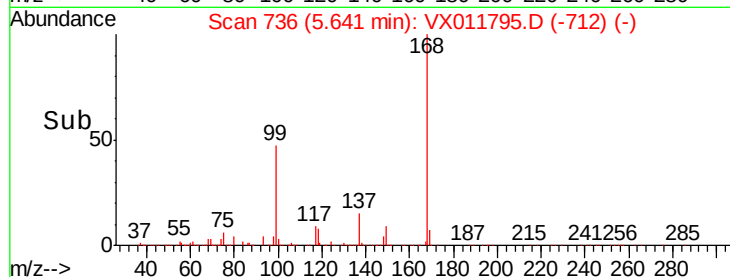
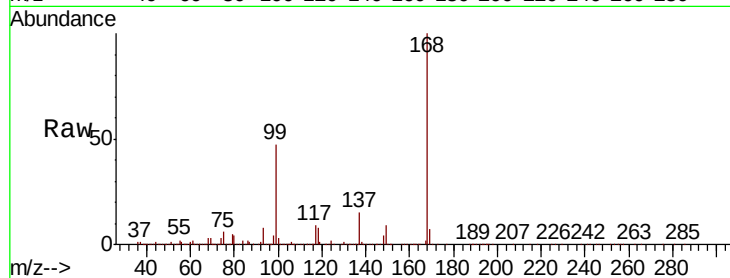
Tgt Ion: 75 Resp: 27088

Ion Ratio Lower Upper

75 100

110 0.0 19.0 57.0#

77 0.4 24.6 36.8#



#38

Carbon Tetrachloride

Concen: 7.100 ug/l

RT: 5.64 min Scan# 736

Delta R.T. -0.13 min

Lab File: VX011795.D

Acq: 23 Aug 2019 14:06

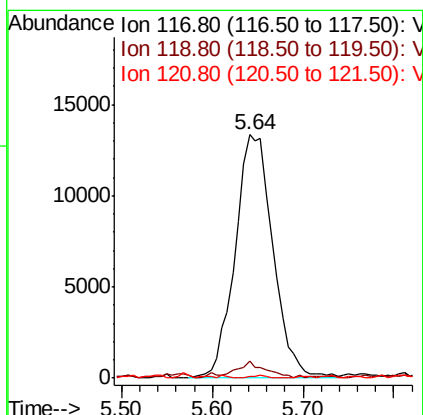
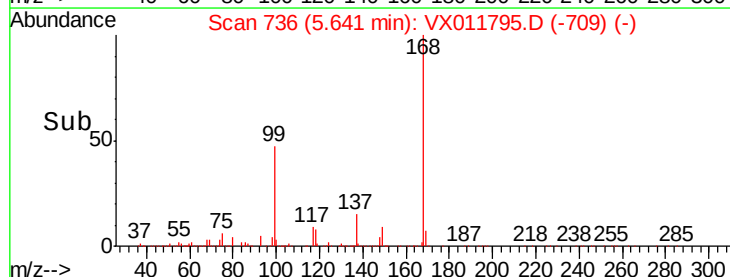
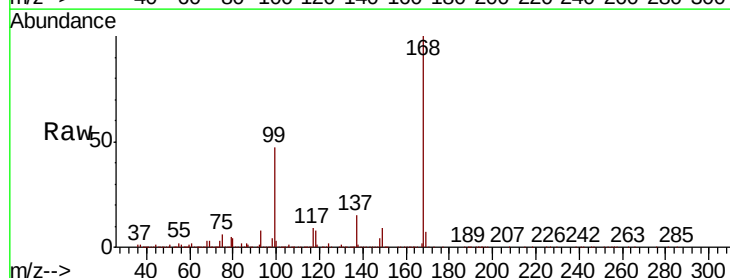
Tgt Ion: 117 Resp: 38699

Ion Ratio Lower Upper

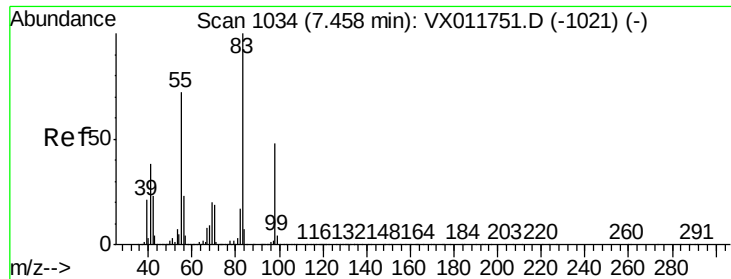
117 100

119 5.8 76.6 114.8#

121 0.6 25.2 37.8#



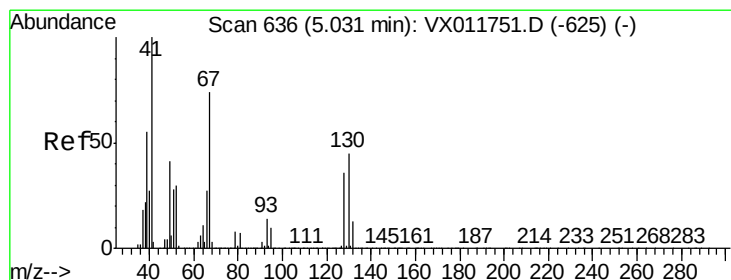
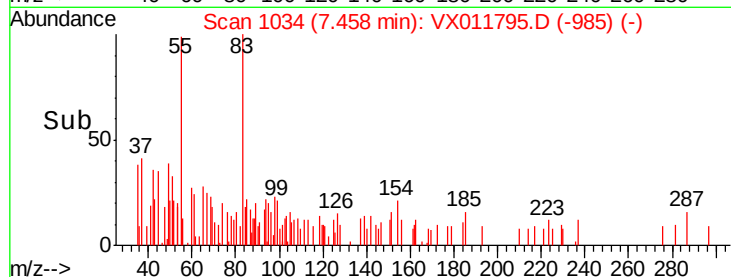
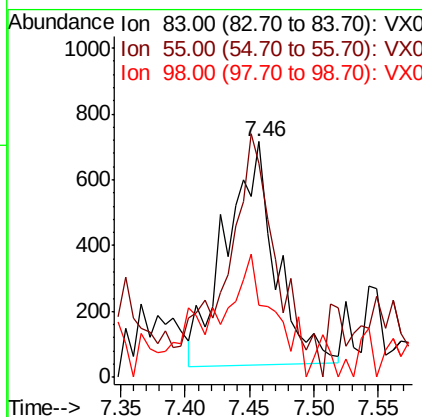
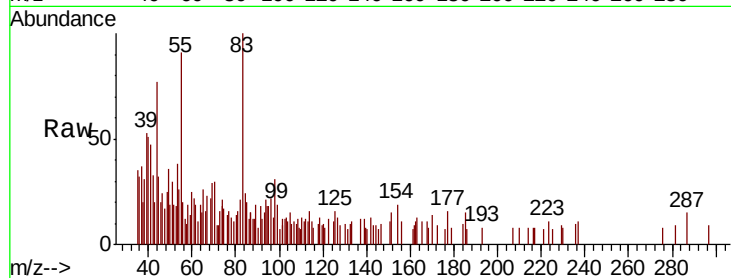




#39  
Methylcyclohexane  
Concen: 0.303 ug/l  
RT: 7.46 min Scan# 1034  
Delta R.T. -0.00 min  
Lab File: VX011795.D  
Acq: 23 Aug 2019 14:06

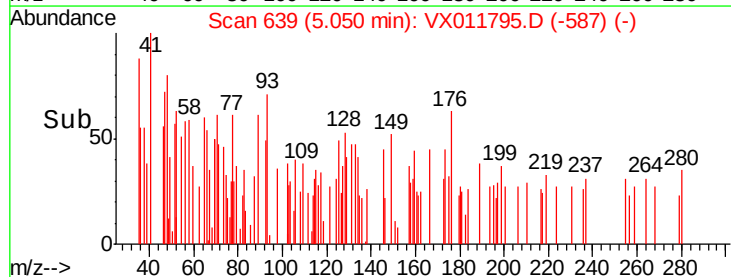
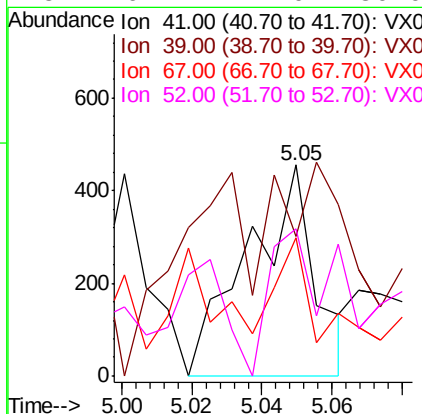
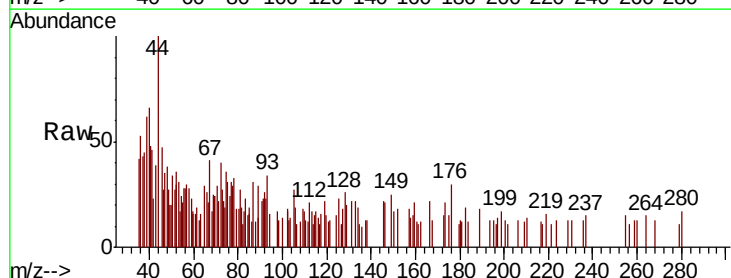
Instrument :  
MSVOA\_X  
ClientSampleId :  
T6-E3-(0)

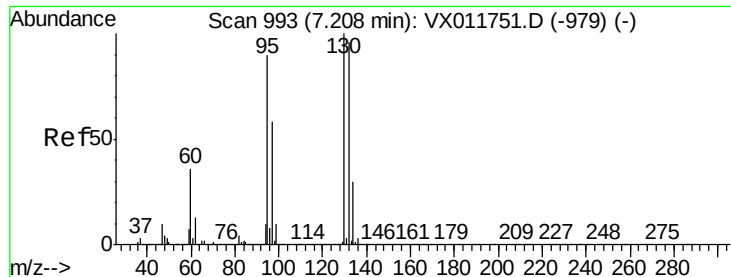
Tgt Ion: 83 Resp: 1804  
Ion Ratio Lower Upper  
83 100  
55 77.7 57.8 86.6  
98 36.3 38.6 58.0#



#41  
Methacrylonitrile  
Concen: 0.205 ug/l  
RT: 5.05 min Scan# 639  
Delta R.T. 0.02 min  
Lab File: VX011795.D  
Acq: 23 Aug 2019 14:06

Tgt Ion: 41 Resp: 606  
Ion Ratio Lower Upper  
41 100  
39 65.3 44.3 66.5  
67 30.5 60.3 90.5#  
52 67.2 24.0 36.0#





#44

Trichloroethene

Concen: 0.941 ug/l

RT: 7.21 min Scan# 993

Delta R.T. -0.00 min

Lab File: VX011795.D

Acq: 23 Aug 2019 14:06

Instrument :

MSVOA\_X

ClientSampleId :

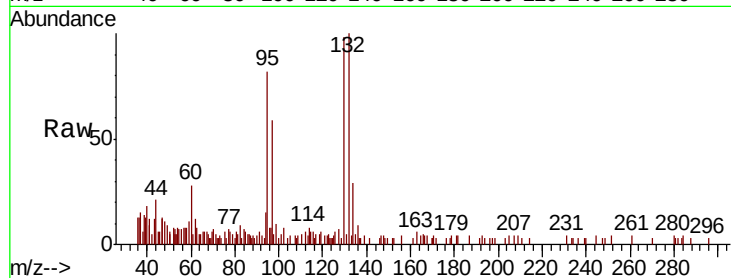
T6-E3-(0)

Tgt Ion: 130 Resp: 4314

Ion Ratio Lower Upper

130 100

95 81.6 0.0 179.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

2000

1500

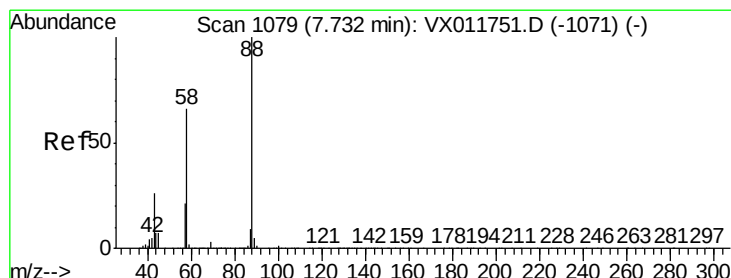
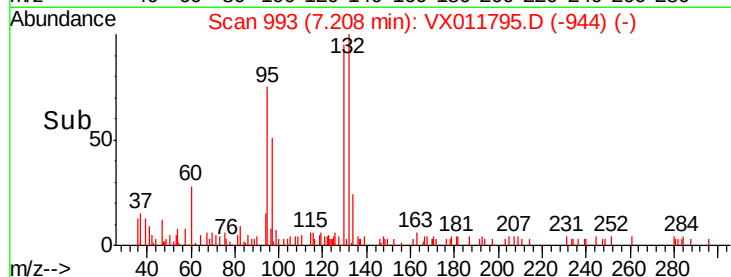
1000

500

0

7.10 7.15 7.20 7.25 7.30

Time-->



#49

1,4-Dioxane

Concen: 3.504 ug/l

RT: 7.70 min Scan# 1073

Delta R.T. -0.04 min

Lab File: VX011795.D

Acq: 23 Aug 2019 14:06

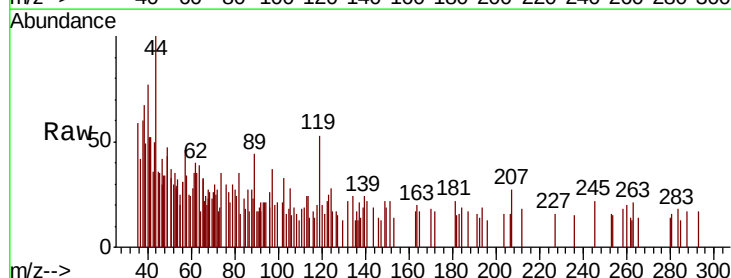
Tgt Ion: 88 Resp: 398

Ion Ratio Lower Upper

88 100

43 16.8 24.6 37.0#

58 63.3 51.4 77.2



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

800

600

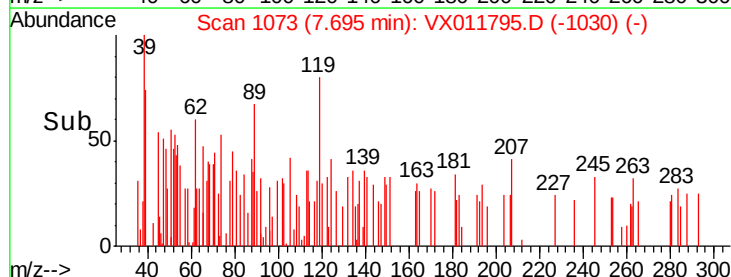
400

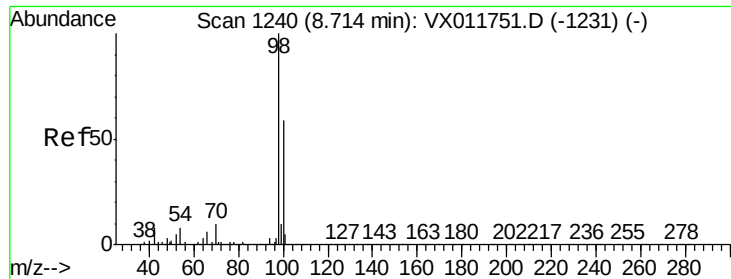
200

0

7.65 7.70 7.75

Time-->

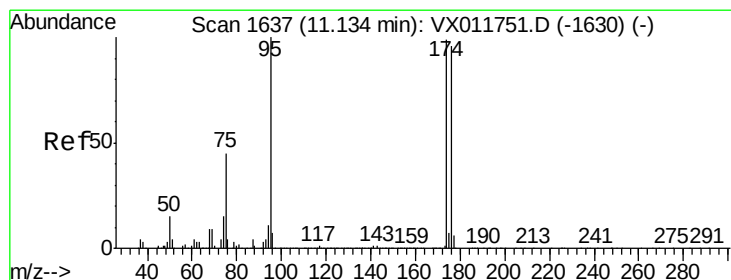
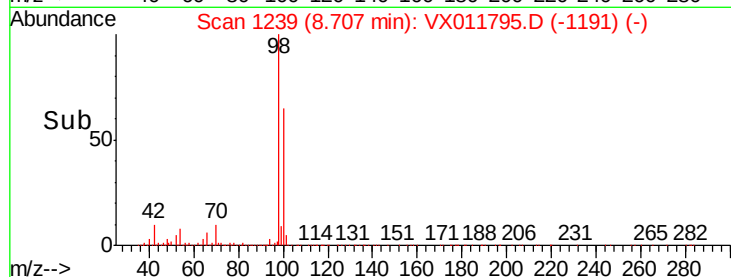
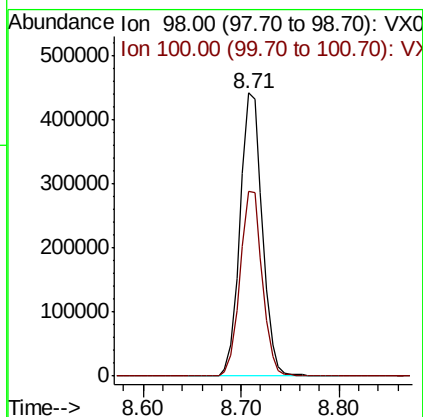
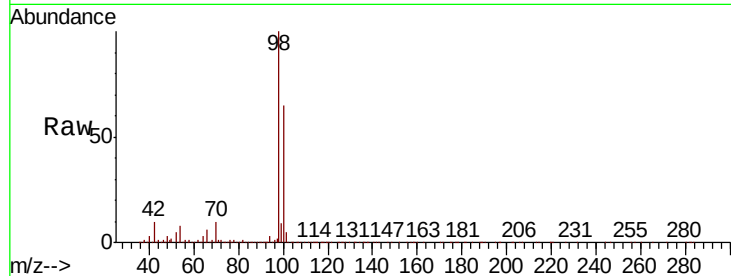




#50  
Toluene-d8  
Concen: 50.325 ug/l  
RT: 8.71 min Scan# 1239  
Delta R.T. -0.01 min  
Lab File: VX011795.D  
Acq: 23 Aug 2019 14:06

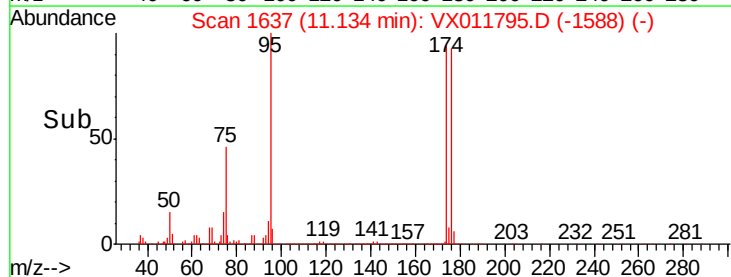
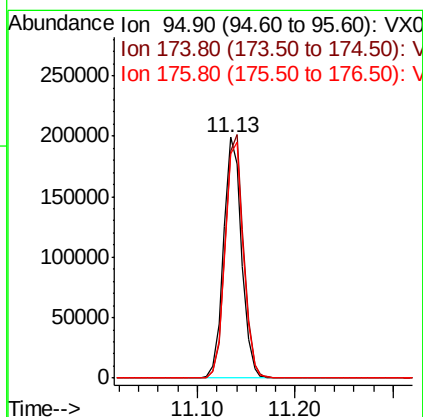
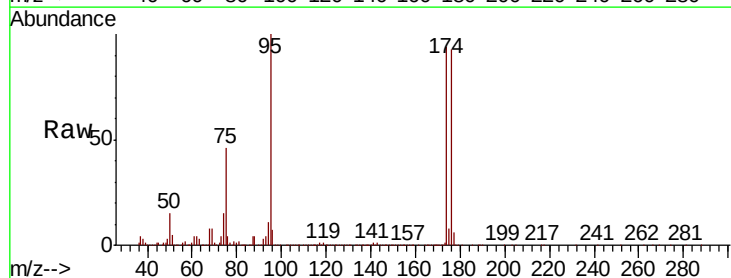
Instrument :  
MSVOA\_X  
ClientSampleId :  
T6-E3-(0)

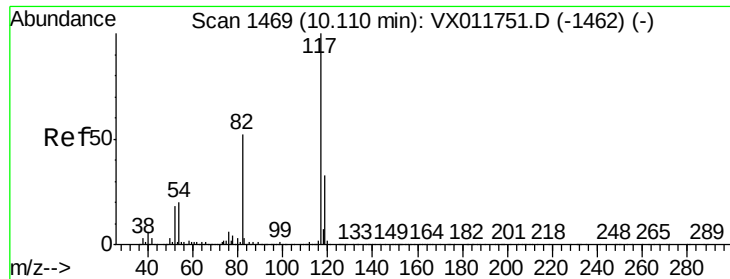
Tgt Ion: 98 Resp: 696206  
Ion Ratio Lower Upper  
98 100  
100 65.3 52.1 78.1



#62  
4-Bromofluorobenzene  
Concen: 46.418 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. -0.00 min  
Lab File: VX011795.D  
Acq: 23 Aug 2019 14:06

Tgt Ion: 95 Resp: 253817  
Ion Ratio Lower Upper  
95 100  
174 102.4 0.0 197.4  
176 100.1 0.0 194.4

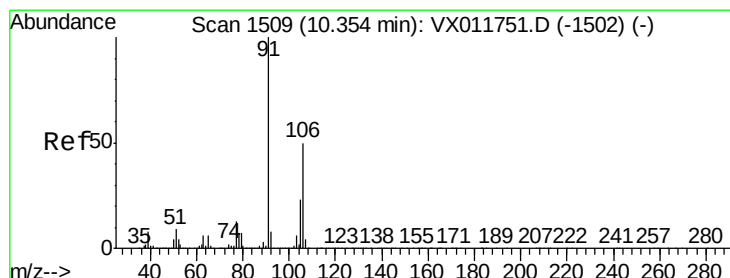
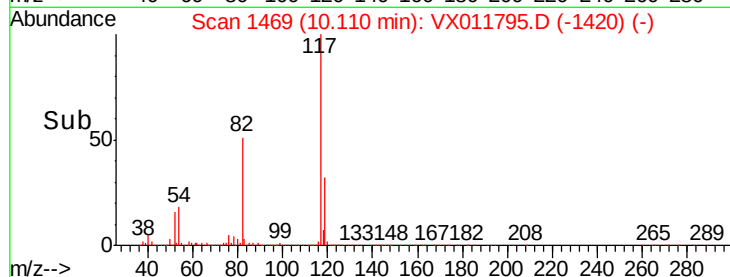
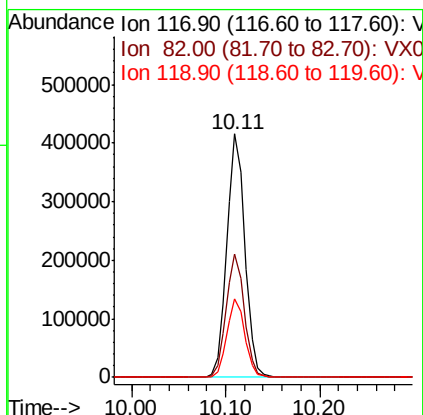
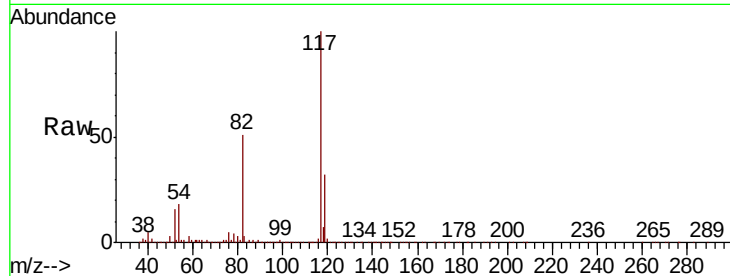




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. -0.00 min  
Lab File: VX011795.D  
Acq: 23 Aug 2019 14:06

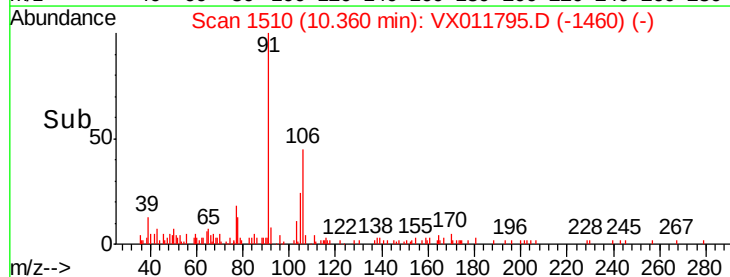
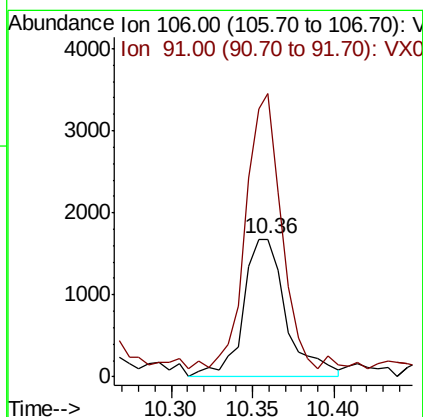
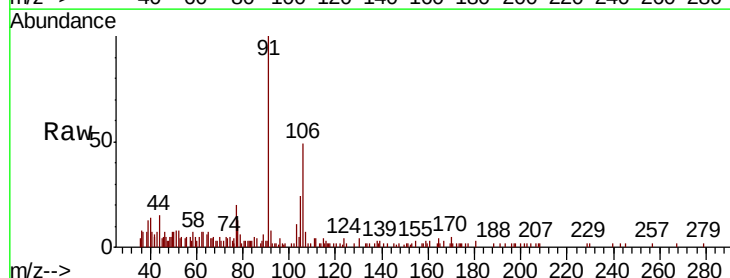
Instrument :  
MSVOA\_X  
ClientSampled :  
T6-E3-(0)

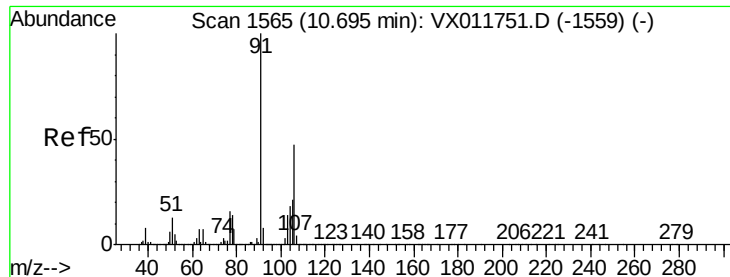
Tgt Ion:117 Resp: 552735  
Ion Ratio Lower Upper  
117 100  
82 50.8 41.7 62.5  
119 32.3 26.2 39.2



#68  
m/p-Xylenes  
Concen: 0.446 ug/l  
RT: 10.36 min Scan# 1510  
Delta R.T. 0.01 min  
Lab File: VX011795.D  
Acq: 23 Aug 2019 14:06

Tgt Ion:106 Resp: 3098  
Ion Ratio Lower Upper  
106 100  
91 162.2 158.3 237.5





#69

o-Xylene

Concen: 0.258 ug/l

RT: 10.70 min Scan# 1566

Delta R.T. 0.01 min

Lab File: VX011795.D

Acq: 23 Aug 2019 14:06

Instrument :

MSVOA\_X

ClientSampled :

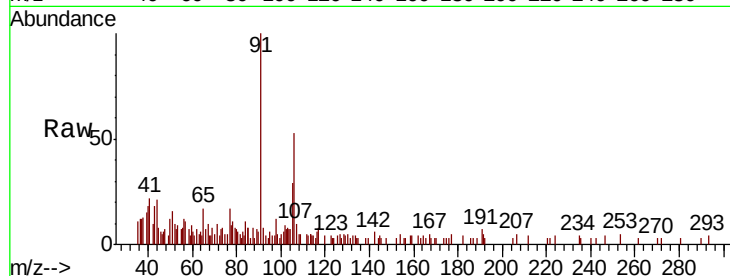
T6-E3-(0)

Tgt Ion:106 Resp: 1761

Ion Ratio Lower Upper

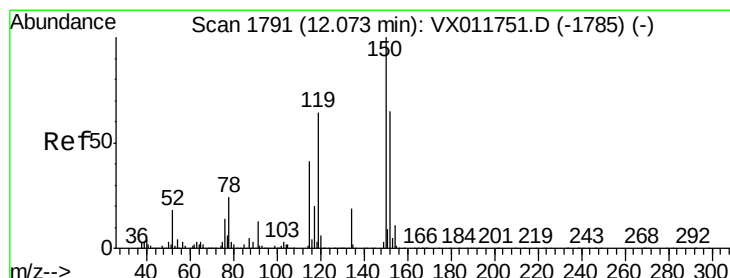
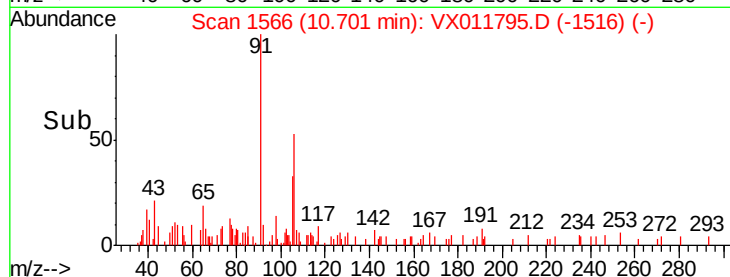
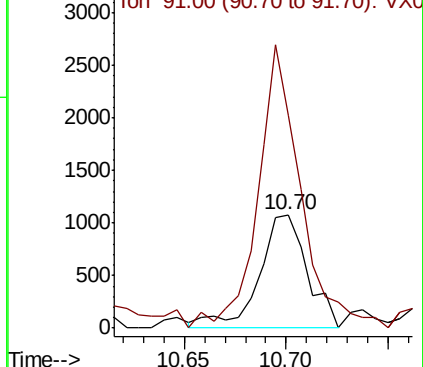
106 100

91 222.6 105.0 314.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.01 min

Lab File: VX011795.D

Acq: 23 Aug 2019 14:06

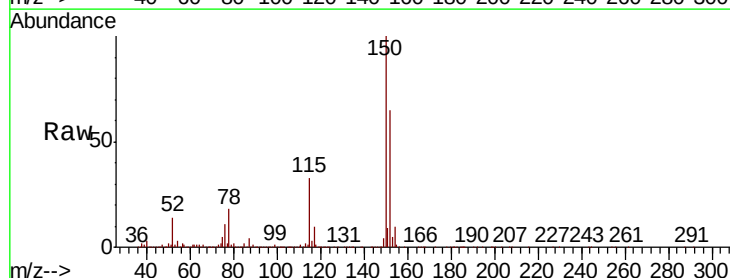
Tgt Ion:152 Resp: 299886

Ion Ratio Lower Upper

152 100

115 51.6 37.3 111.8

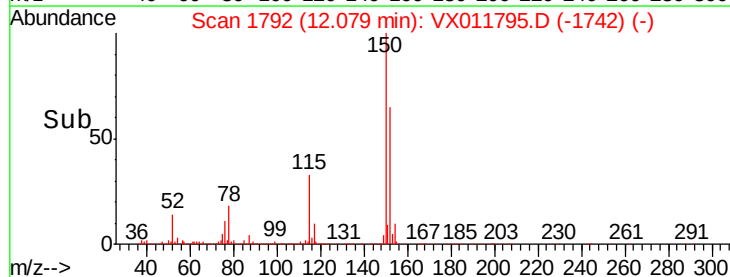
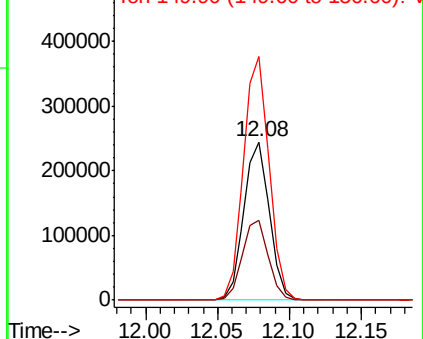
150 154.6 0.0 343.0

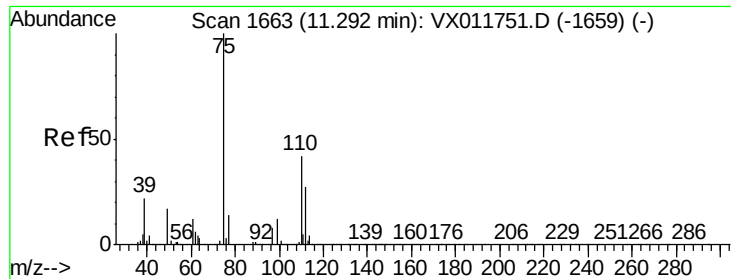


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.721 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011795.D

Acq: 23 Aug 2019 14:06

Instrument :

MSVOA\_X

ClientSampled :

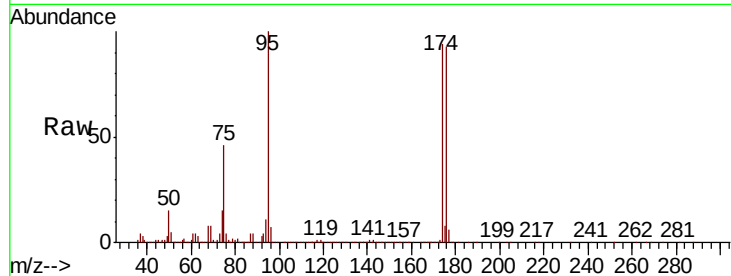
T6-E3-(0)

Tgt Ion: 75 Resp: 114296

Ion Ratio Lower Upper

75 100

77 1.7 21.1 63.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

11.13

100000

80000

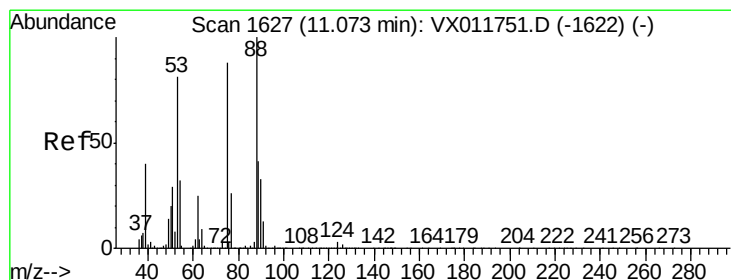
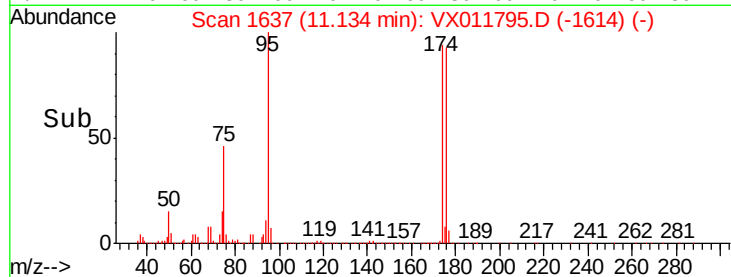
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 65.505 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011795.D

Acq: 23 Aug 2019 14:06

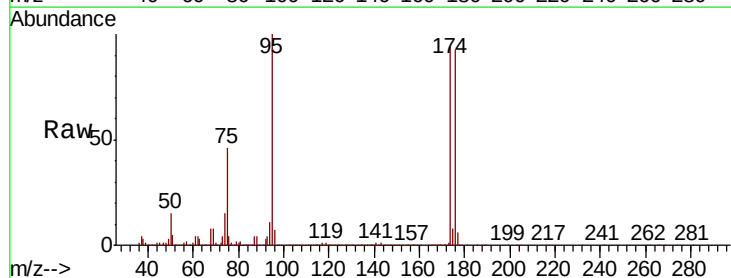
Tgt Ion: 75 Resp: 114296

Ion Ratio Lower Upper

75 100

53 0.2 77.1 115.7#

89 0.0 38.5 57.7#



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

11.13

120000

100000

80000

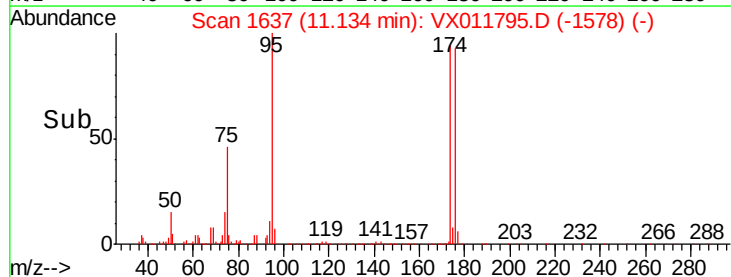
60000

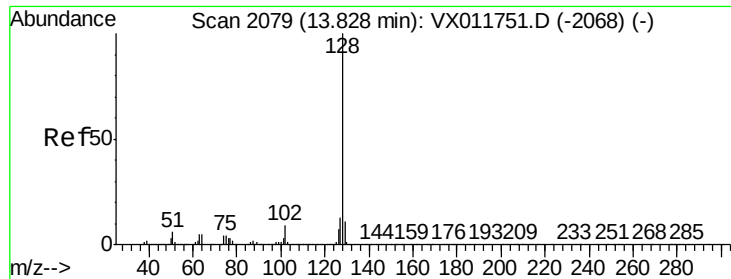
40000

20000

0

Time-->





#95  
Naphthalene  
Concen: 0.652 ug/l  
RT: 13.83 min Scan# 2080  
Delta R.T. 0.01 min  
Lab File: VX011795.D  
Acq: 23 Aug 2019 14:06

Instrument :  
MSVOA\_X  
ClientSampleId :  
T6-E3-(0)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 16.6  | 10.4  | 15.6# |
| 129     | 14.3  | 8.7   | 13.1# |

