

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX120718\  
 Data File : VX006354.D  
 Acq On : 07 Dec 2018 18:18  
 Operator : JC/MD  
 Sample : J6019-10  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TB-120618

Quant Time: Dec 08 00:13:09 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X112918W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 30 03:55:33 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.66  | 168  | 795977   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 1203965  | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 1084355  | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 530551   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.07  | 65   | 396310   | 48.77 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.54% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 376336   | 48.28 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.56% |          |
| 50) Toluene-d8              | 8.71  | 98   | 1395205  | 49.21 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.42% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 521485   | 48.81 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.62% |          |

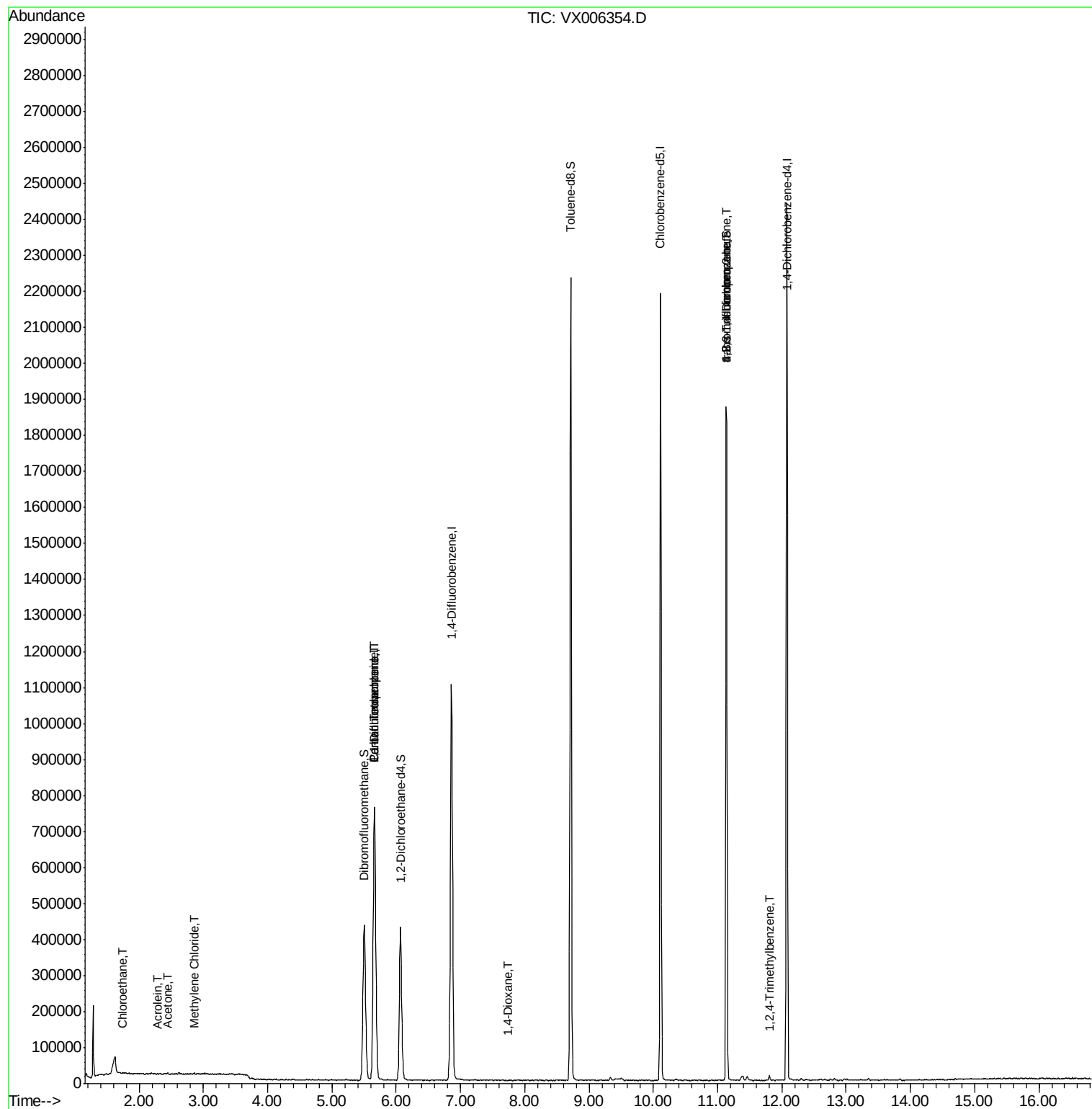
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 6) Chloroethane                | 1.73  | 64   | 1062     | 0.201  | ug/l # | 48     |
| 13) Acrolein                   | 2.29  | 56   | 325      | 0.268  | ug/l # | 65     |
| 16) Acetone                    | 2.44  | 43   | 1616     | 0.424  | ug/l   | 94     |
| 20) Methylene Chloride         | 2.85  | 84   | 2072     | 0.255  | ug/l # | 82     |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 47920    | 4.726  | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 72369    | 6.068  | ug/l # | 16     |
| 49) 1,4-Dioxane                | 7.74  | 88   | 186      | 0.819  | ug/l # | 20     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 236396   | 23.084 | ug/l # | 37     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 236396   | 54.173 | ug/l # | 15     |
| 84) 1,2,4-Trimethylbenzene     | 11.81 | 105  | 6457     | 0.205  | ug/l   | 93     |

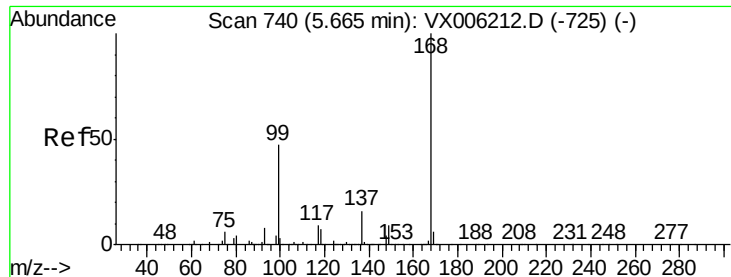
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Fri Nov 30 03:55:33 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX006354.D

Acq: 07 Dec 2018 18:18

Instrument :

MSVOA\_X

ClientSampleId :

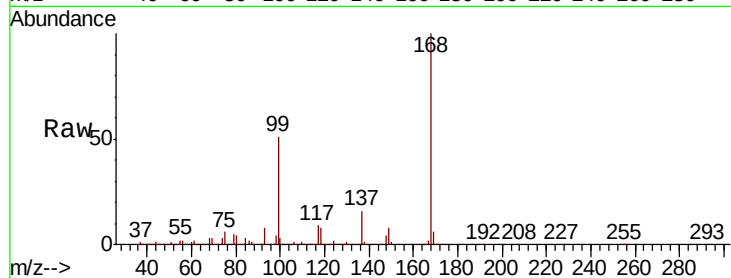
TB-120618

Tot Ion:168 Resp: 795977

Ion Ratio Lower Upper

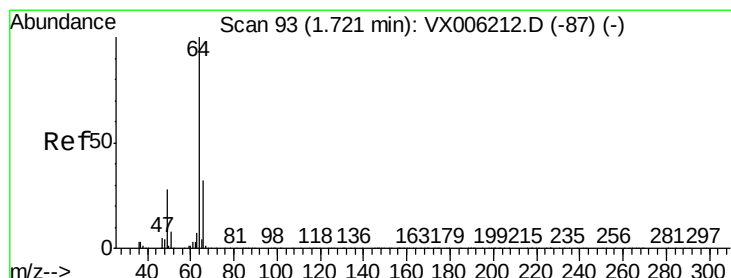
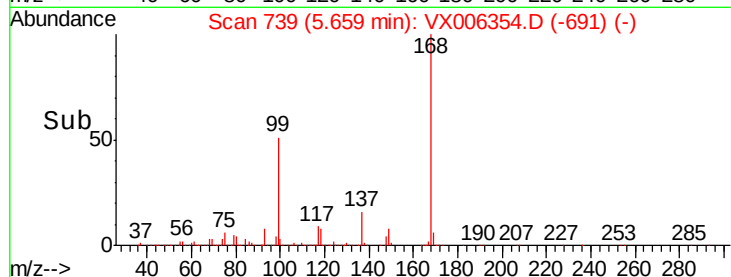
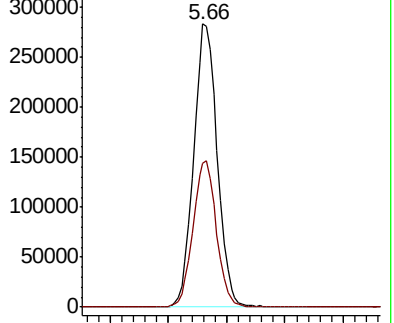
168 100

99 50.9 37.8 56.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#6

Chloroethane

Concen: 0.201 ug/l

RT: 1.73 min Scan# 95

Delta R.T. 0.01 min

Lab File: VX006354.D

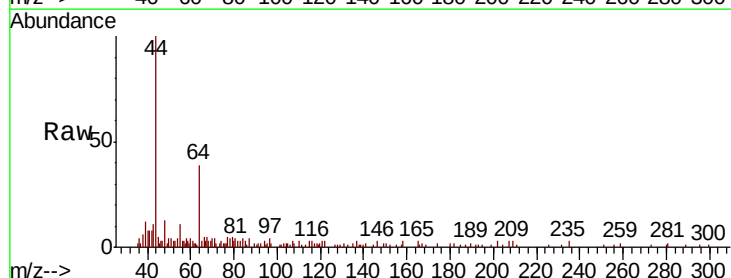
Acq: 07 Dec 2018 18:18

Tgt Ion: 64 Resp: 1062

Ion Ratio Lower Upper

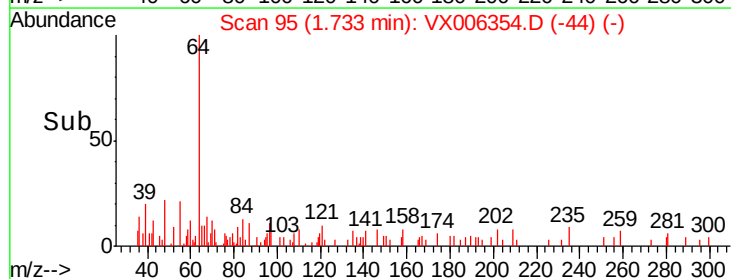
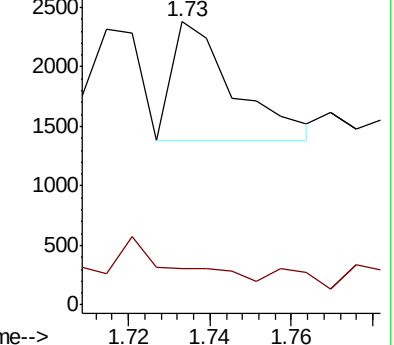
64 100

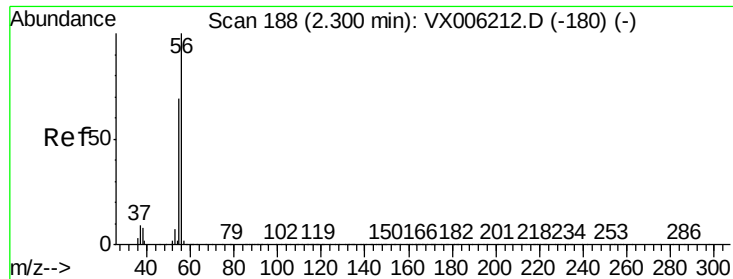
66 3.2 25.9 38.9#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#13

Acrolein

Concen: 0.268 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.01 min

Lab File: VX006354.D

Acq: 07 Dec 2018 18:18

Instrument :

MSVOA\_X

ClientSampleId :

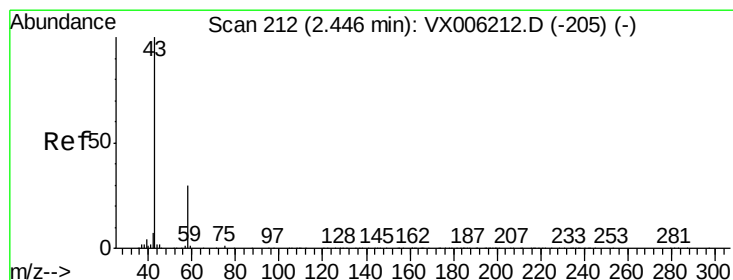
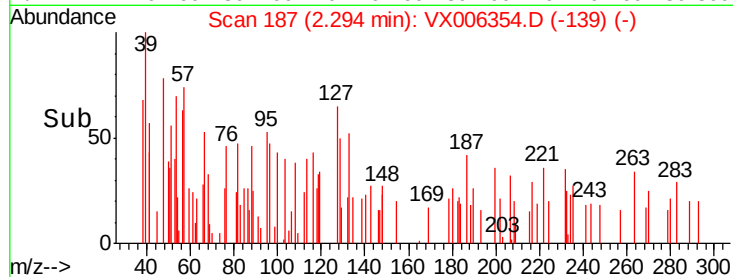
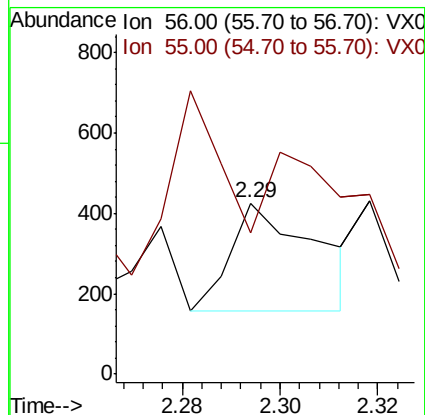
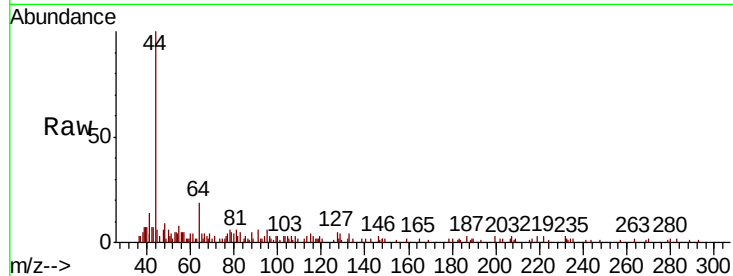
TB-120618

Tot Ion: 56 Resp: 325

Ion Ratio Lower Upper

56 100

55 101.5 57.8 86.6#



#16

Acetone

Concen: 0.424 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX006354.D

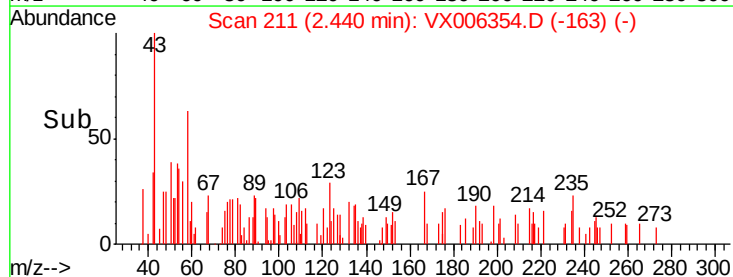
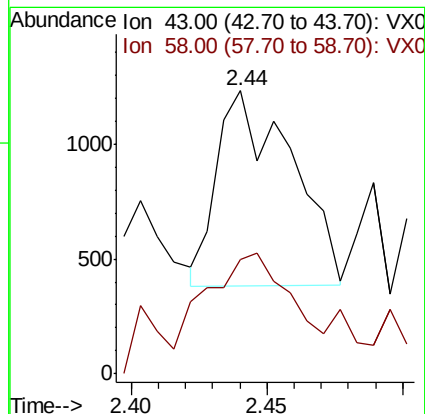
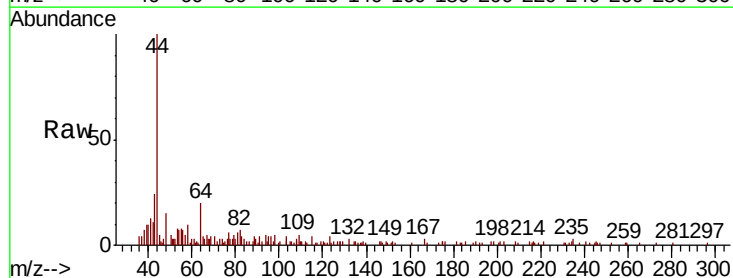
Acq: 07 Dec 2018 18:18

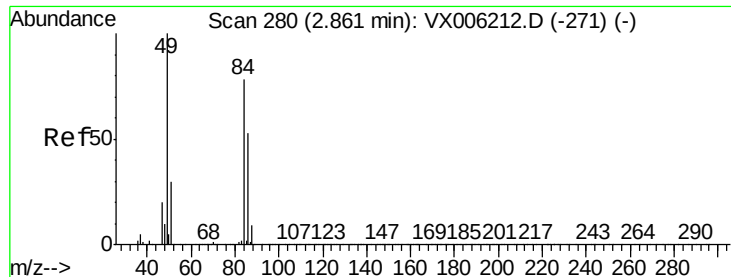
Tgt Ion: 43 Resp: 1616

Ion Ratio Lower Upper

43 100

58 26.7 24.0 36.0

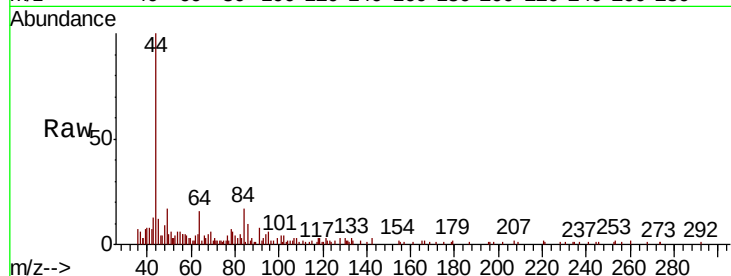




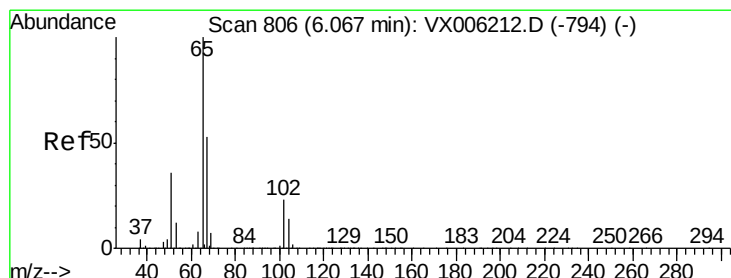
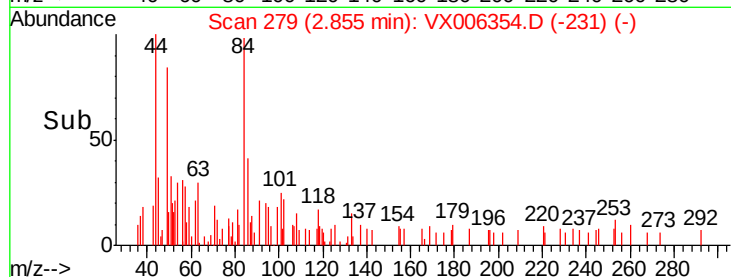
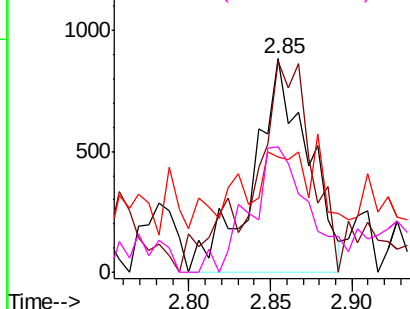
#20  
Methylene Chloride  
Concen: 0.255 ug/l  
RT: 2.85 min Scan# 279  
Delta R.T. -0.01 min  
Lab File: VX006354.D  
Acq: 07 Dec 2018 18:18

Instrument :  
MSVOA\_X  
ClientSampled :  
TB-120618

Tot Ion: 84 Resp: 2072  
Ion Ratio Lower Upper  
84 100  
49 99.2 102.2 153.4#  
51 33.6 31.1 46.7  
86 58.7 53.7 80.5

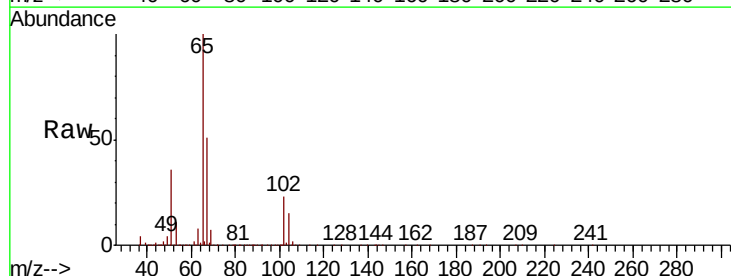


Abundance Ion 83.90 (83.60 to 84.60): VX0  
Ion 48.90 (48.60 to 49.60): VX0  
Ion 50.90 (50.60 to 51.60): VX0  
Ion 85.90 (85.60 to 86.60): VX0

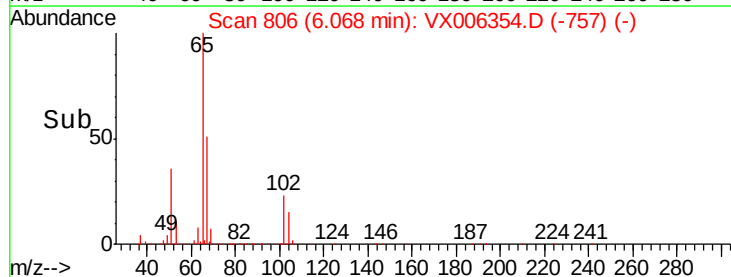
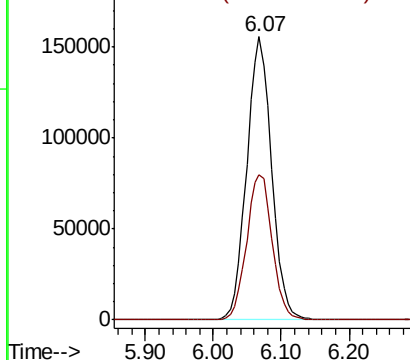


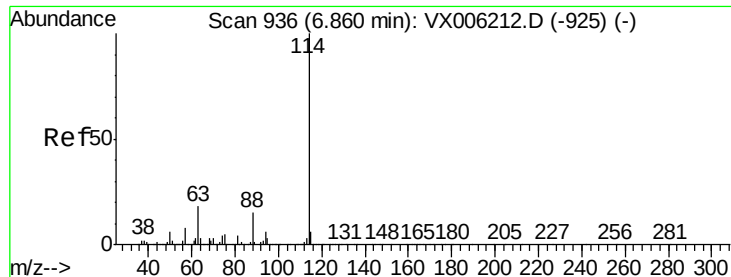
#33  
1,2-Dichloroethane-d4  
Concen: 48.773 ug/l  
RT: 6.07 min Scan# 806  
Delta R.T. 0.00 min  
Lab File: VX006354.D  
Acq: 07 Dec 2018 18:18

Tgt Ion: 65 Resp: 396310  
Ion Ratio Lower Upper  
65 100  
67 53.0 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VX0  
Ion 66.90 (66.60 to 67.60): VX0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. 0.00 min

Lab File: VX006354.D

Acq: 07 Dec 2018 18:18

Instrument :

MSVOA\_X

ClientSampleId :

TB-120618

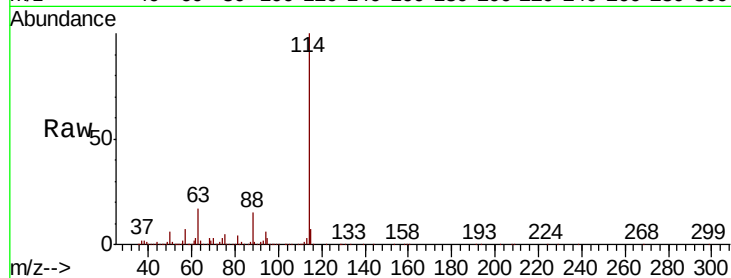
Tot Ion:114 Resp: 1203965

Ion Ratio Lower Upper

114 100

63 17.3 0.0 36.6

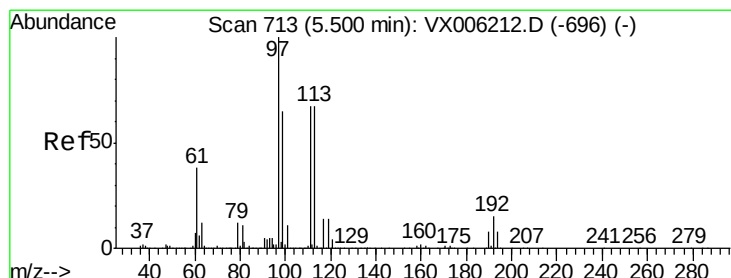
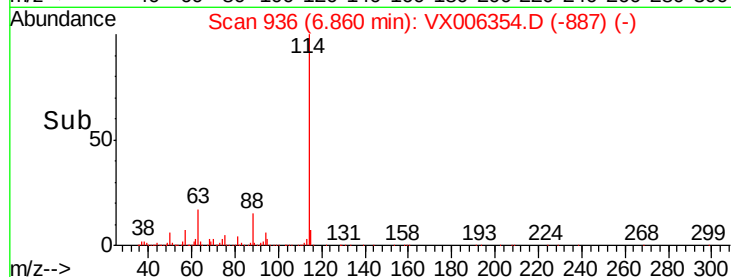
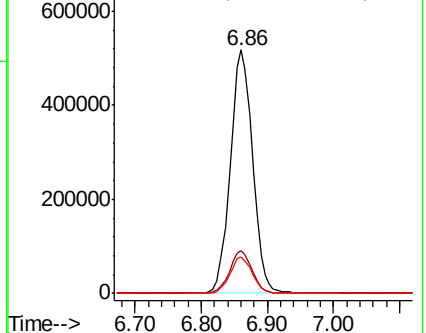
88 15.0 0.0 29.0



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: 48.278 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX006354.D

Acq: 07 Dec 2018 18:18

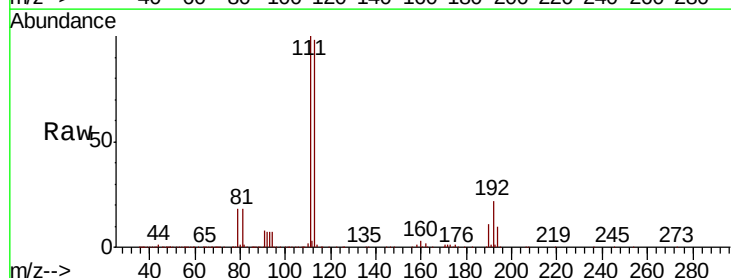
Tgt Ion:113 Resp: 376336

Ion Ratio Lower Upper

113 100

111 101.2 81.1 121.7

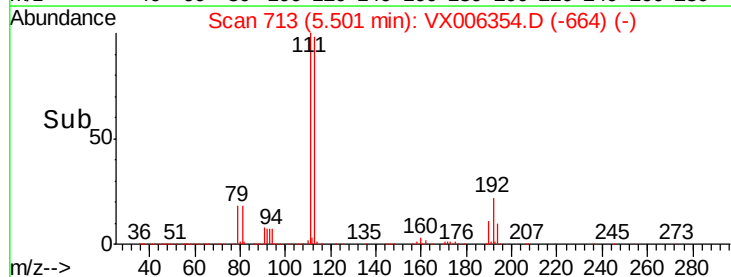
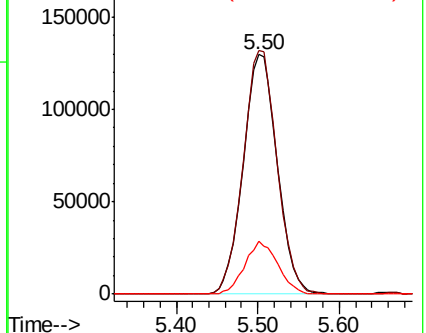
192 21.3 18.2 27.2

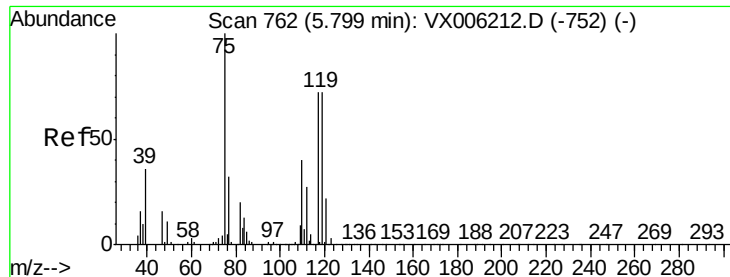


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.726 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX006354.D

Acq: 07 Dec 2018 18:18

Instrument :

MSVOA\_X

ClientSampleId :

TB-120618

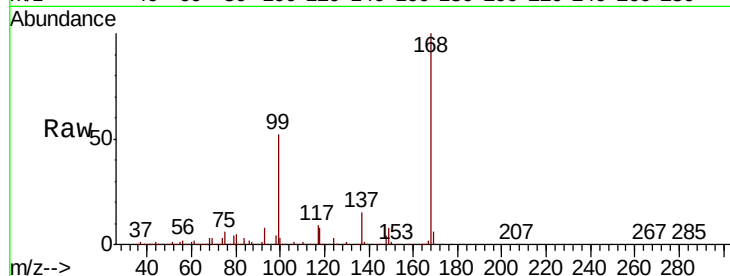
Tot Ion: 75 Resp: 47920

Ion Ratio Lower Upper

75 100

110 11.5 20.4 61.3#

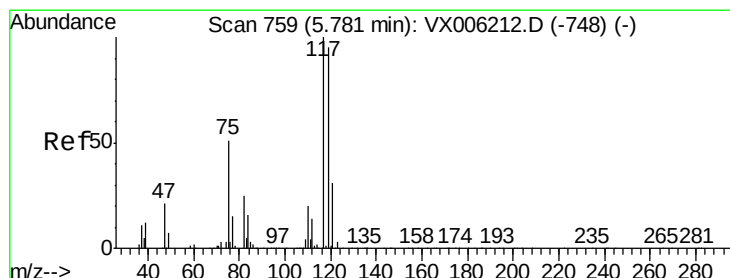
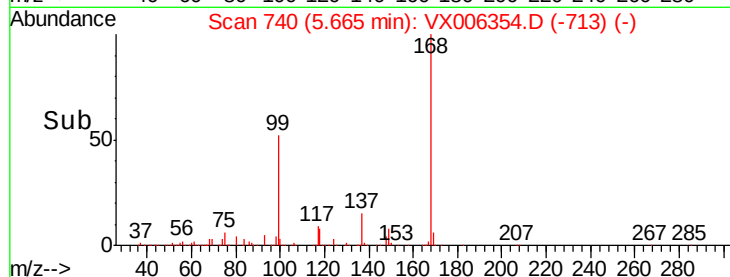
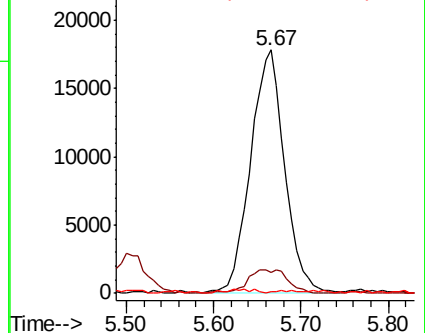
77 1.4 24.9 37.3#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0



#38

Carbon Tetrachloride

Concen: 6.068 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX006354.D

Acq: 07 Dec 2018 18:18

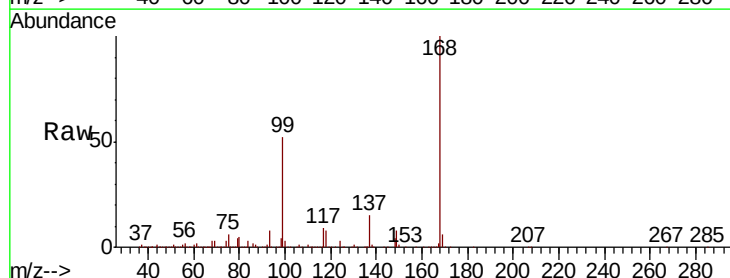
Tgt Ion: 117 Resp: 72369

Ion Ratio Lower Upper

117 100

119 4.5 75.8 113.8#

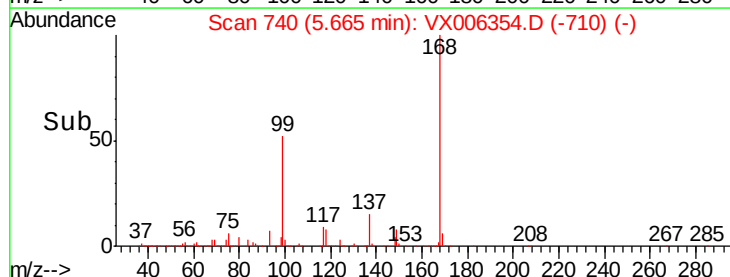
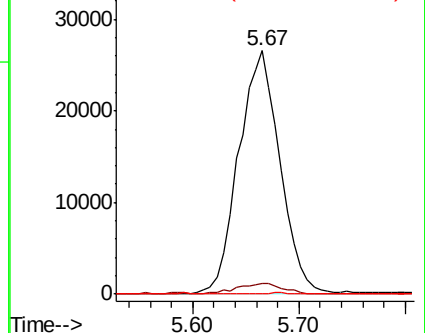
121 0.0 24.6 37.0#

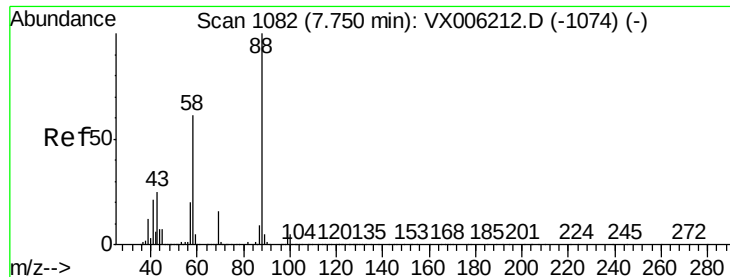


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

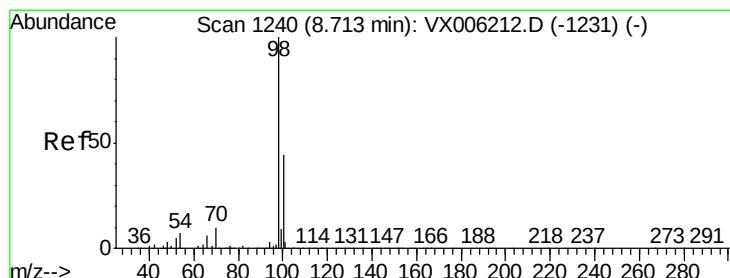
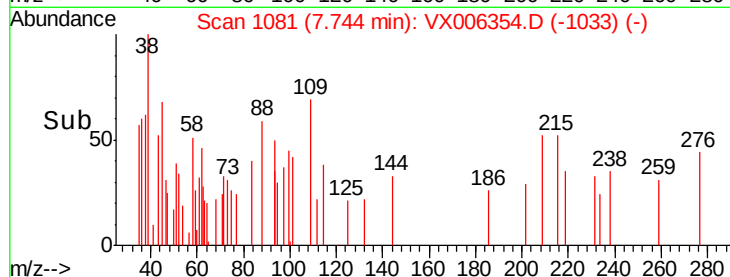
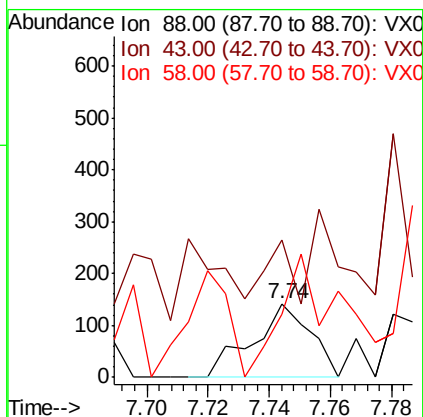
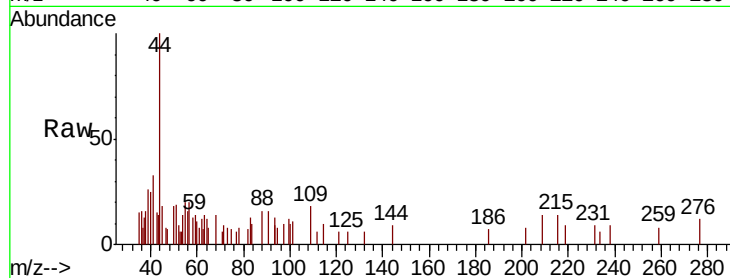




#49  
1,4-Dioxane  
Concen: 0.819 ug/l  
RT: 7.74 min Scan# 1081  
Delta R.T. -0.01 min  
Lab File: VX006354.D  
Acq: 07 Dec 2018 18:18

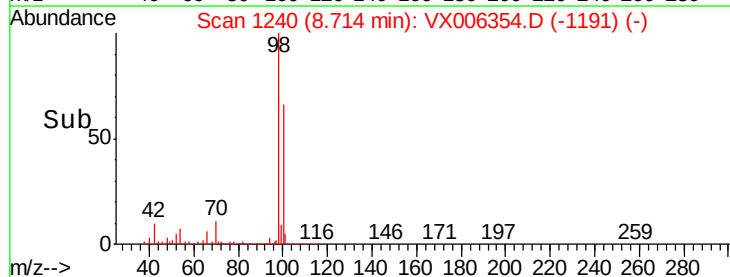
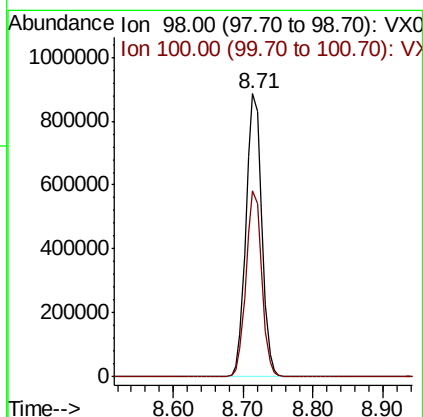
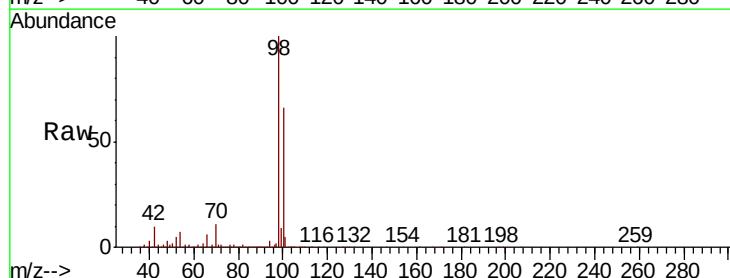
Instrument :  
MSVOA\_X  
ClientSampled :  
TB-120618

Tot Ion: 88 Resp: 186  
Ion Ratio Lower Upper  
88 100  
43 68.8 23.2 34.8#  
58 0.0 51.4 77.0#

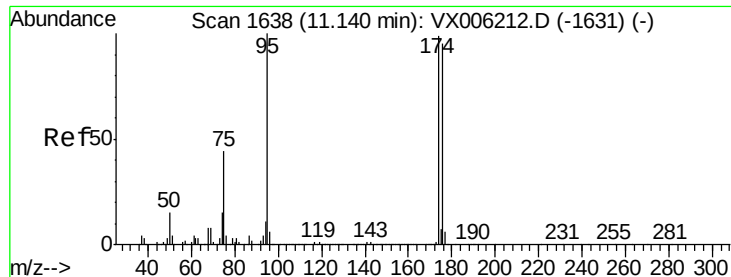


#50  
Toluene-d8  
Concen: 49.206 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX006354.D  
Acq: 07 Dec 2018 18:18

Tgt Ion: 98 Resp: 1395205  
Ion Ratio Lower Upper  
98 100  
100 65.0 52.2 78.2







#62

4-Bromofluorobenzene

Concen: 48.806 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.01 min

Lab File: VX006354.D

Acq: 07 Dec 2018 18:18

Instrument :

MSVOA\_X

ClientSampled :

TB-120618

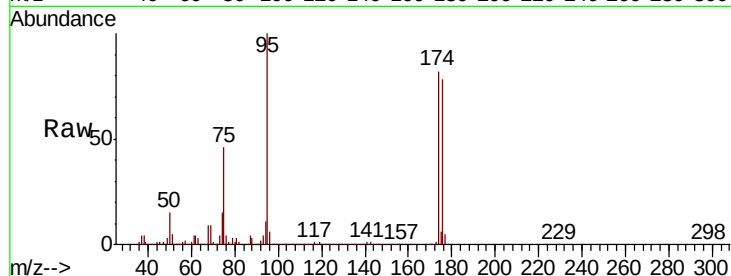
Tot Ion: 95 Resp: 521485

Ion Ratio Lower Upper

95 100

174 88.2 0.0 187.0

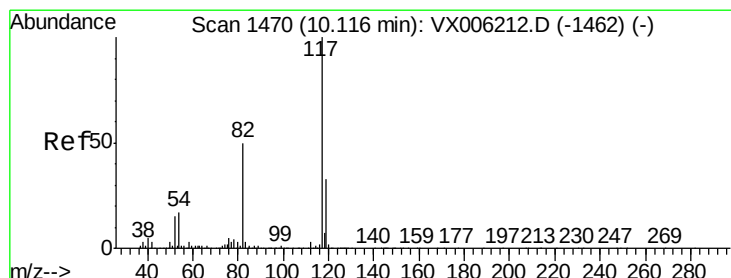
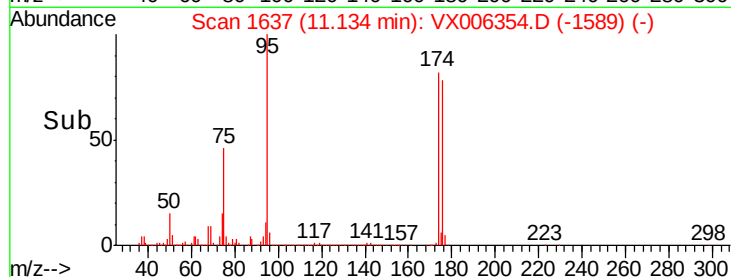
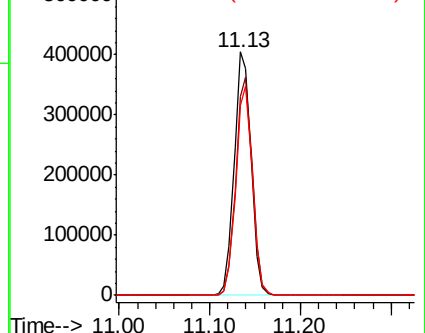
176 85.1 0.0 181.8



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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VX006354.D

Acq: 07 Dec 2018 18:18

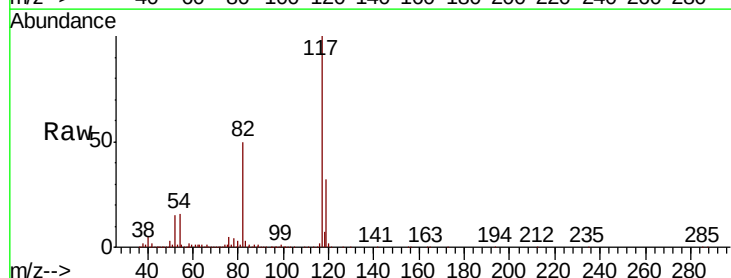
Tgt Ion: 117 Resp: 1084355

Ion Ratio Lower Upper

117 100

82 50.0 39.6 59.4

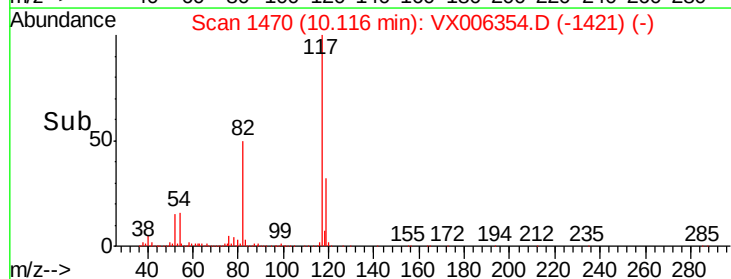
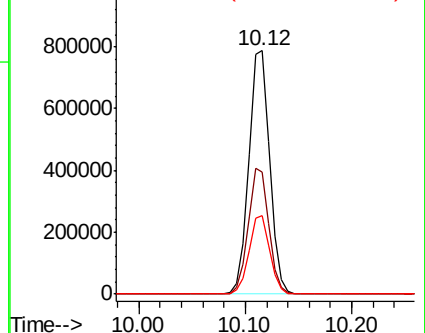
119 32.5 26.3 39.5

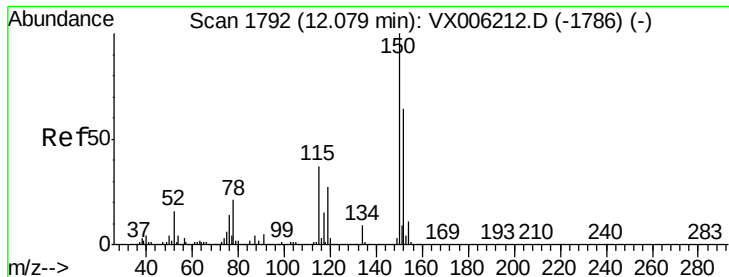


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX006354.D

Acq: 07 Dec 2018 18:18

Instrument :

MSVOA\_X

ClientSampleId :

TB-120618

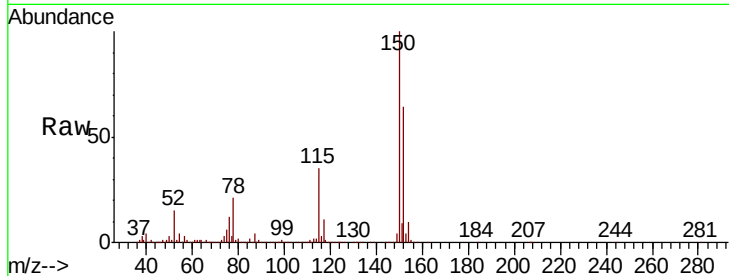
Tot Ion:152 Resp: 530551

Ion Ratio Lower Upper

152 100

115 55.2 39.0 116.9

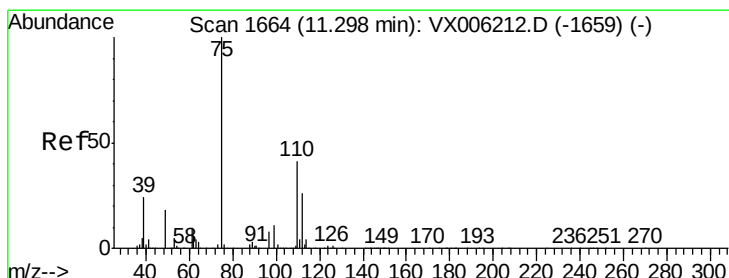
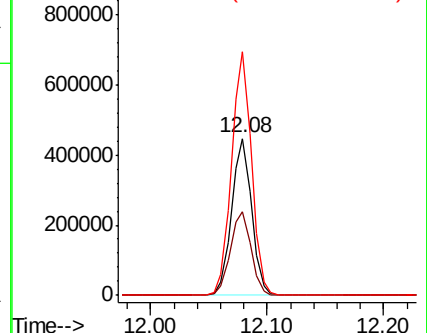
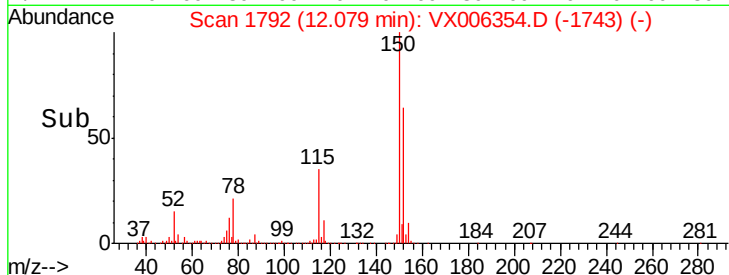
150 154.9 0.0 345.8



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: 23.084 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX006354.D

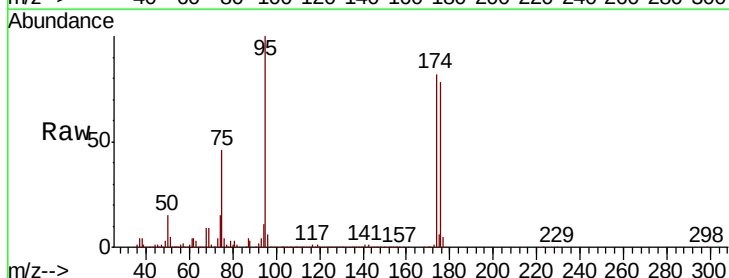
Acq: 07 Dec 2018 18:18

Tgt Ion: 75 Resp: 236396

Ion Ratio Lower Upper

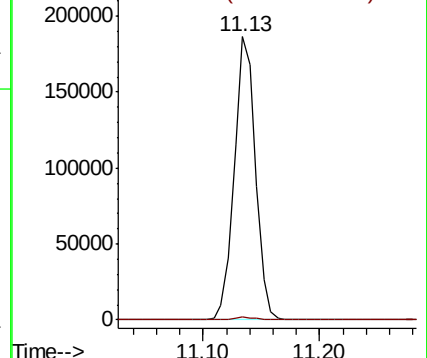
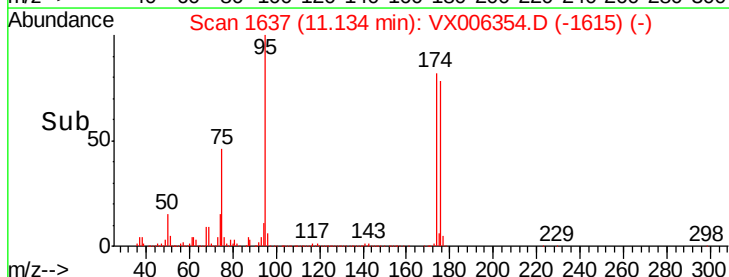
75 100

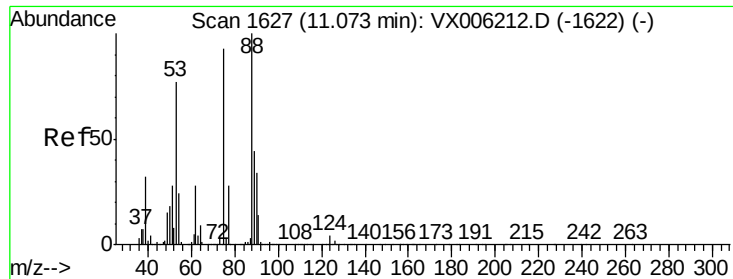
77 1.3 19.9 59.7#



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: 54.173 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX006354.D

Acq: 07 Dec 2018 18:18

Instrument :

MSVOA\_X

ClientSampleId :

TB-120618

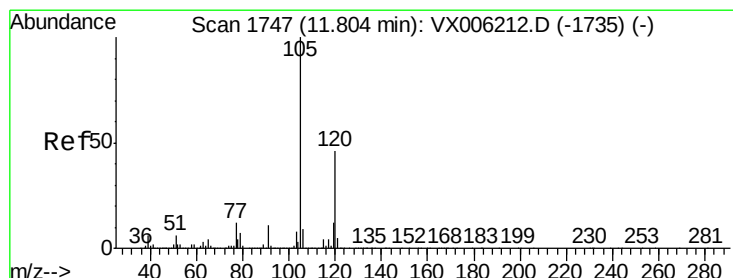
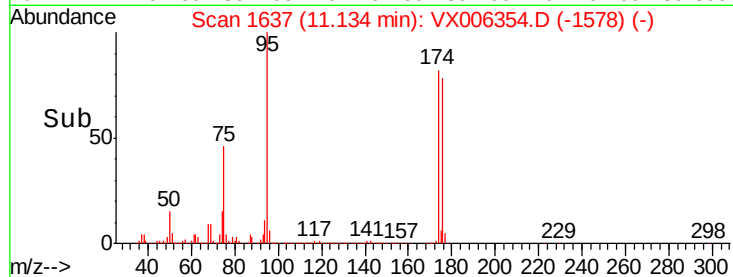
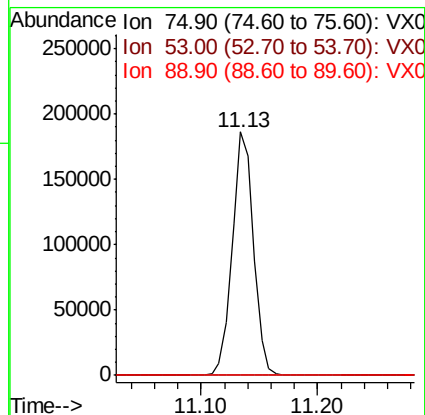
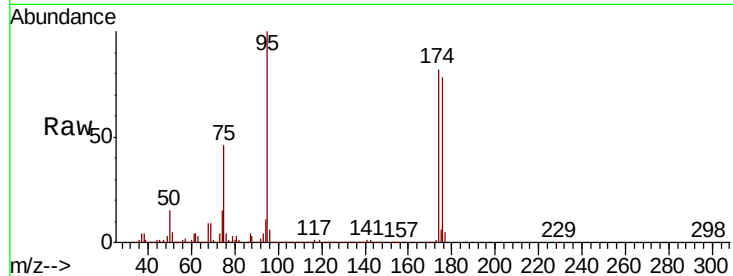
Tot Ion: 75 Resp: 236396

Ion Ratio Lower Upper

75 100

53 0.1 64.4 96.6#

89 0.0 44.2 66.4#



#84

1,2,4-Trimethylbenzene

Concen: 0.205 ug/l

RT: 11.81 min Scan# 1748

Delta R.T. 0.01 min

Lab File: VX006354.D

Acq: 07 Dec 2018 18:18

Tgt Ion: 105 Resp: 6457

Ion Ratio Lower Upper

105 100

120 51.1 23.4 70.0

