

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX092320\  
 Data File : VX018548.D  
 Acq On : 23 Sep 2020 20:37  
 Operator : JC/SP  
 Sample : L4083-10  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE104D3-20200917

Quant Time: Sep 24 00:38:38 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X091720W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Sep 17 12:17:36 2020  
 Response via : Initial Calibration

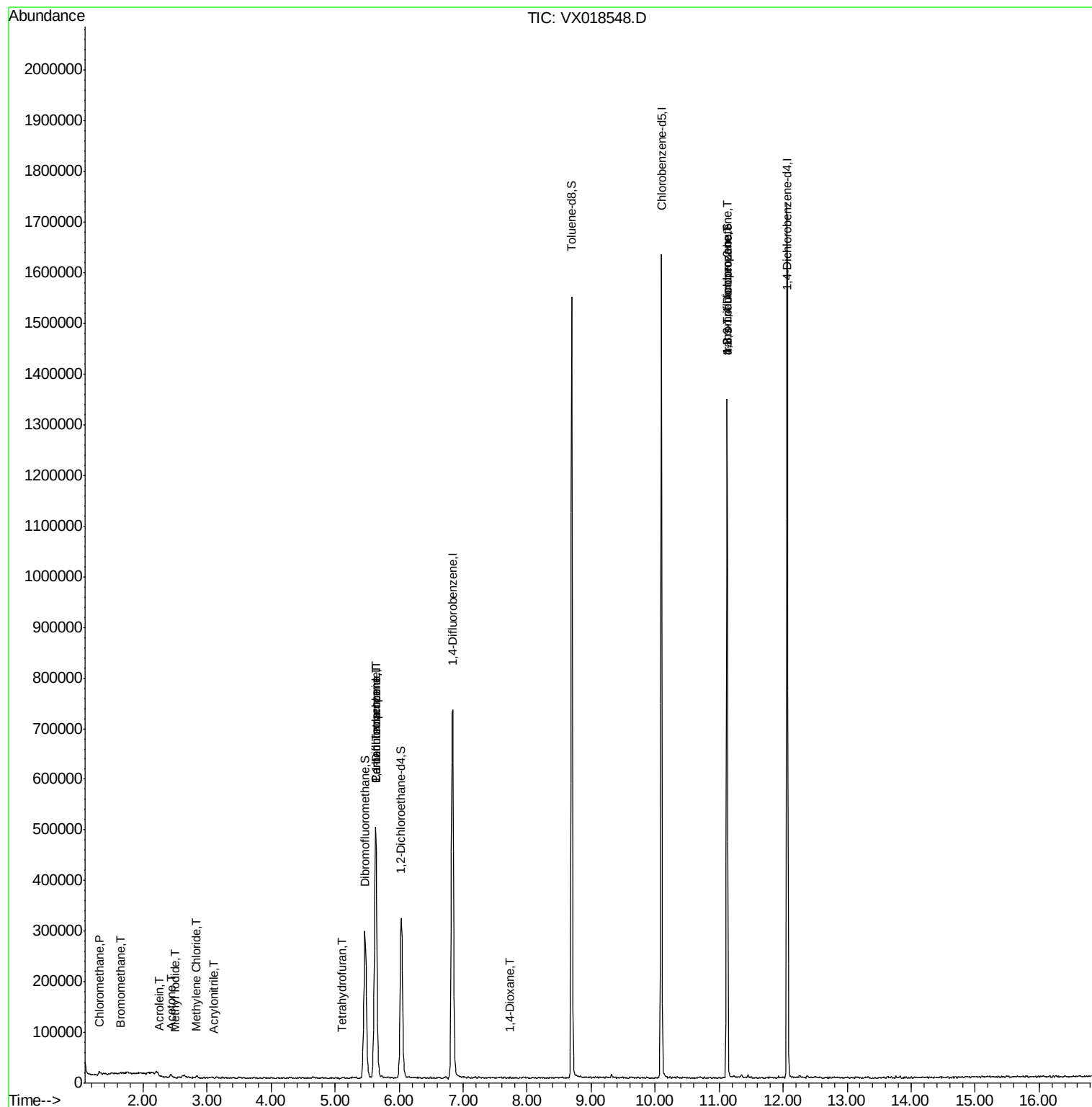
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|--------------------------------|-------|------|----------|--------|--------|----------|
| 1) Pentafluorobenzene          | 5.64  | 168  | 461855   | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene        | 6.84  | 114  | 727135   | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5           | 10.10 | 117  | 714372   | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 12.06 | 152  | 354330   | 50.00  | ug/l   | 0.00     |
| System Monitoring Compounds    |       |      |          |        |        |          |
| 33) 1,2-Dichloroethane-d4      | 6.03  | 65   | 322705   | 49.39  | ug/l   | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 98.78% |          |
| 35) Dibromofluoromethane       | 5.46  | 113  | 249540   | 49.64  | ug/l   | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 99.28% |          |
| 50) Toluene-d8                 | 8.70  | 98   | 891369   | 48.80  | ug/l   | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 97.60% |          |
| 62) 4-Bromofluorobenzene       | 11.12 | 95   | 337786   | 46.49  | ug/l   | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 92.98% |          |
| Target Compounds               |       |      |          |        |        |          |
|                                |       |      |          |        | Qvalue |          |
| 3) Chloromethane               | 1.31  | 50   | 3102     | 0.605  | ug/l   | 98       |
| 5) Bromomethane                | 1.64  | 94   | 856      | 0.257  | ug/l   | 81       |
| 10) Methyl Iodide              | 2.50  | 142  | 542      | 5.003  | ug/l # | 87       |
| 13) Acrolein                   | 2.26  | 56   | 266      | 0.370  | ug/l # | 49       |
| 15) Acrylonitrile              | 3.11  | 53   | 590      | 0.218  | ug/l # | 36       |
| 16) Acetone                    | 2.43  | 43   | 8809     | 3.525  | ug/l   | 95       |
| 20) Methylene Chloride         | 2.83  | 84   | 1877     | 0.340  | ug/l # | 66       |
| 29) Tetrahydrofuran            | 5.10  | 42   | 676      | 0.276  | ug/l # | 65       |
| 36) 1,1-Dichloropropene        | 5.64  | 75   | 35574    | 5.041  | ug/l # | 53       |
| 38) Carbon Tetrachloride       | 5.63  | 117  | 47865    | 6.124  | ug/l # | 18       |
| 49) 1,4-Dioxane                | 7.73  | 88   | 279      | 2.774  | ug/l # | 20       |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 175846   | 23.616 | ug/l # | 36       |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 175846   | 60.516 | ug/l # | 13       |

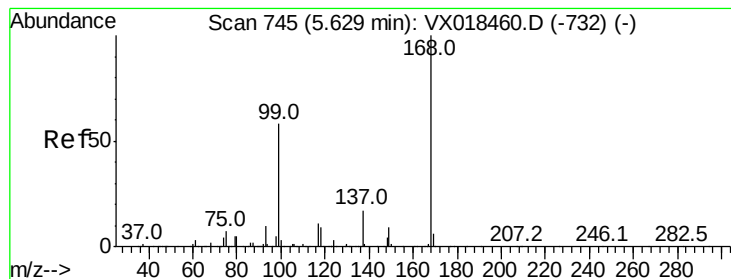
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Sep 24 00:38:38 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X091720W.M  
Quant Title : SW846 8260  
QLast Update : Thu Sep 17 12:17:36 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX018548.D

Acq: 23 Sep 2020 20:37

Instrument :

MSVOA\_X

ClientSampleId :

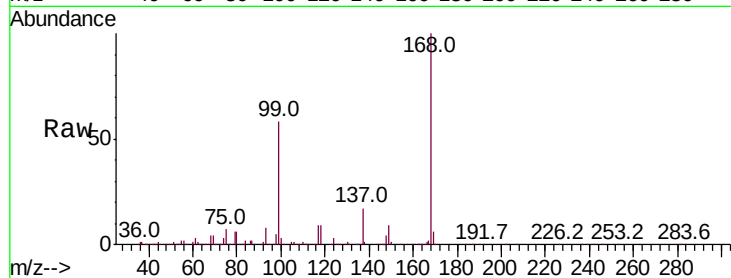
RE104D3-20200917

Tot Ion:168 Resp: 461855

Ion Ratio Lower Upper

168 100

99 57.5 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

200000

150000

100000

50000

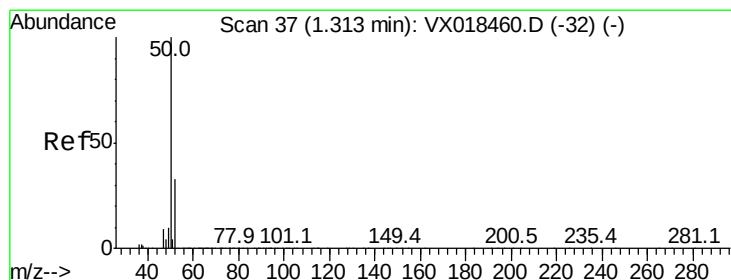
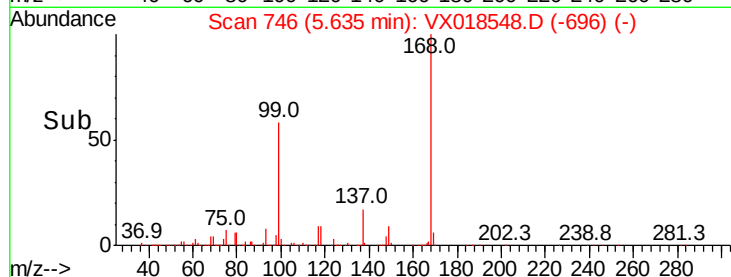
0

5.50

5.60

5.70

Time-->



#3

Chloromethane

Concen: 0.605 ug/l

RT: 1.31 min Scan# 37

Delta R.T. 0.00 min

Lab File: VX018548.D

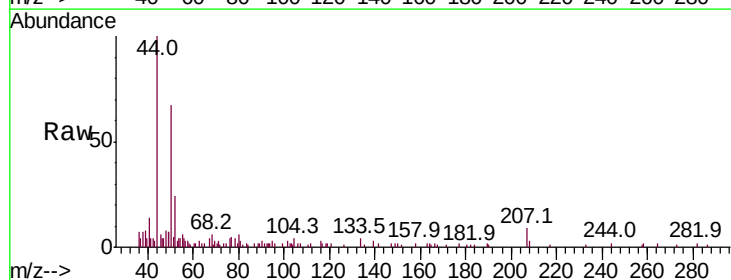
Acq: 23 Sep 2020 20:37

Tgt Ion: 50 Resp: 3102

Ion Ratio Lower Upper

50 100

52 32.1 26.6 40.0



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

3000

2000

1000

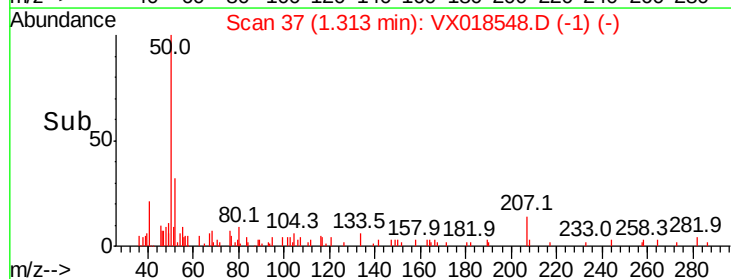
0

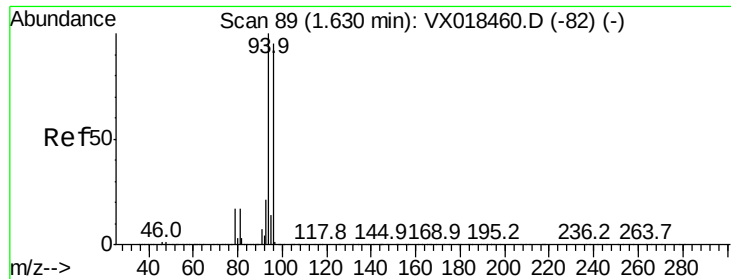
1.25

1.30

1.35

Time-->





#5

Bromomethane

Concen: 0.257 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.01 min

Lab File: VX018548.D

Acq: 23 Sep 2020 20:37

Instrument :

MSVOA\_X

ClientSampleId :

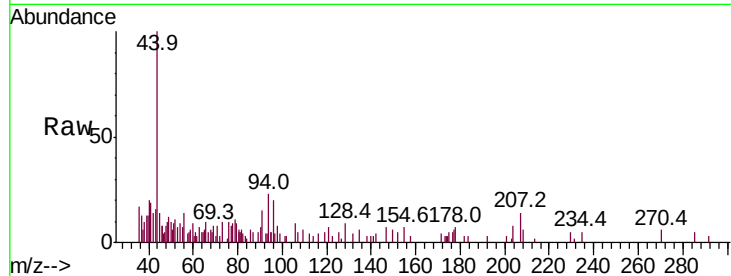
RE104D3-20200917

Tot Ion: 94 Resp: 856

Ion Ratio Lower Upper

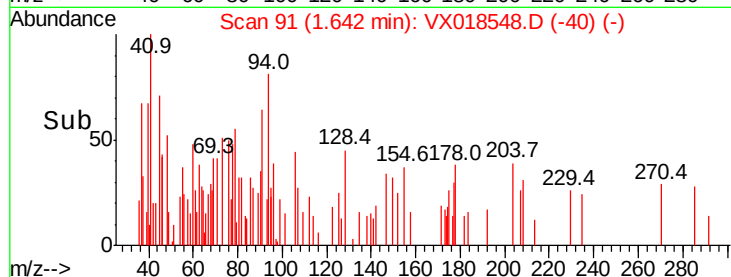
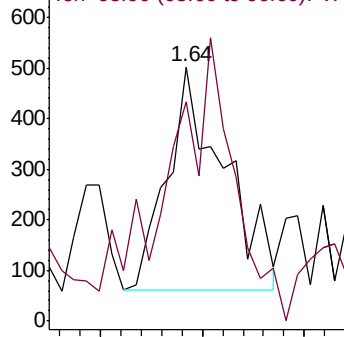
94 100

96 75.7 75.5 113.3

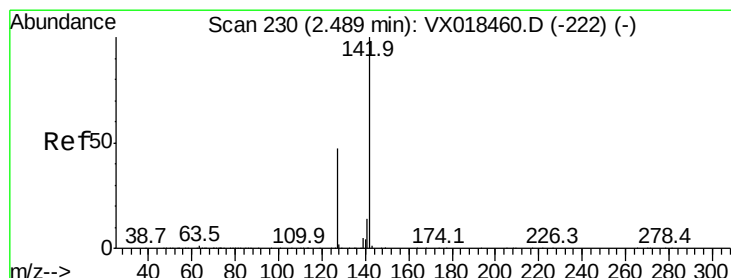


Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



Time-->



#10

Methyl Iodide

Concen: 5.003 ug/l

RT: 2.50 min Scan# 232

Delta R.T. 0.01 min

Lab File: VX018548.D

Acq: 23 Sep 2020 20:37

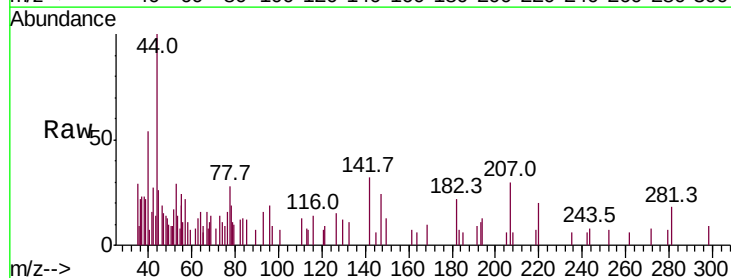
Tgt Ion: 142 Resp: 542

Ion Ratio Lower Upper

142 100

127 39.1 36.0 54.0

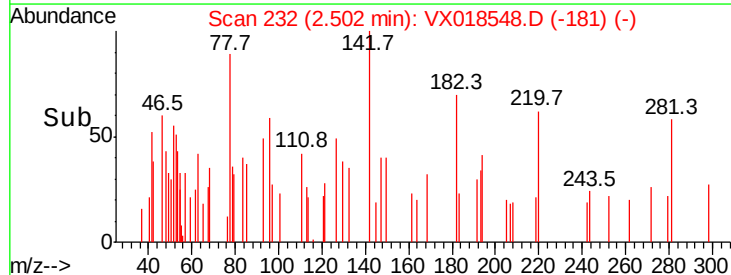
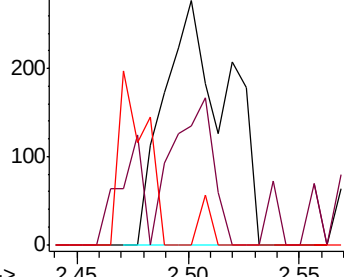
141 3.7 11.9 17.9#



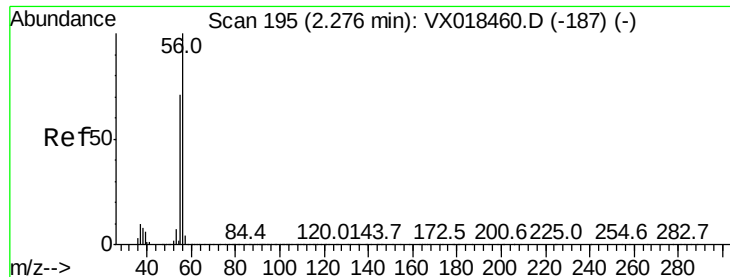
Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->



#13

Acrolein

Concen: 0.370 ug/l

RT: 2.26 min Scan# 192

Delta R.T. -0.02 min

Lab File: VX018548.D

Acq: 23 Sep 2020 20:37

Instrument :

MSVOA\_X

ClientSampleId :

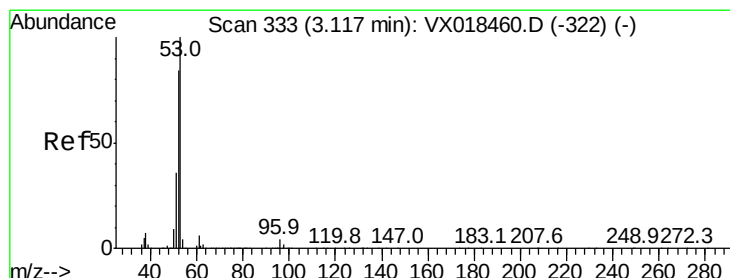
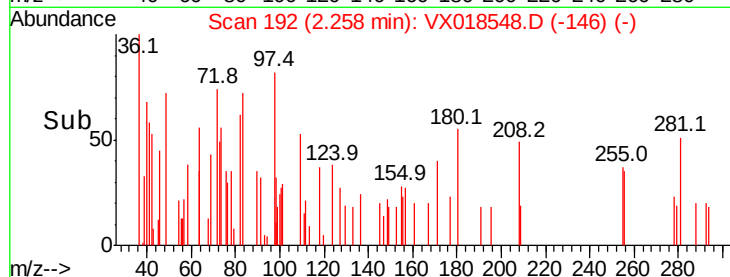
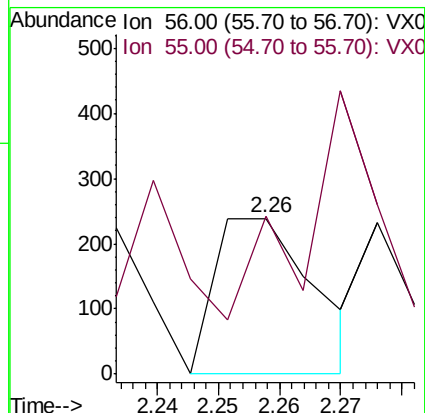
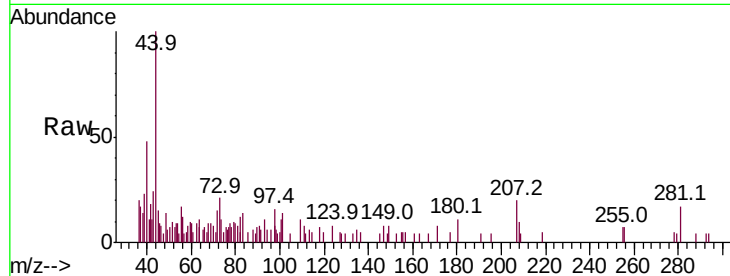
RE104D3-20200917

Tot Ion: 56 Resp: 266

Ion Ratio Lower Upper

56 100

55 115.4 58.2 87.4#



#15

Acrylonitrile

Concen: 0.218 ug/l

RT: 3.11 min Scan# 331

Delta R.T. -0.01 min

Lab File: VX018548.D

Acq: 23 Sep 2020 20:37

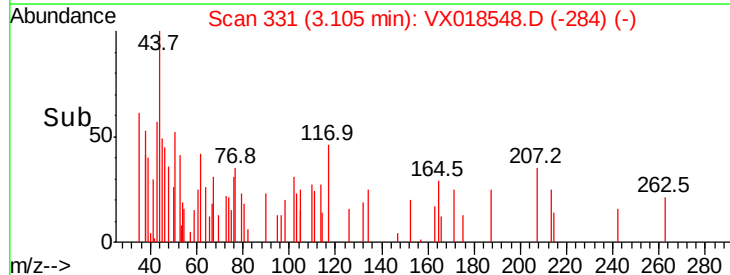
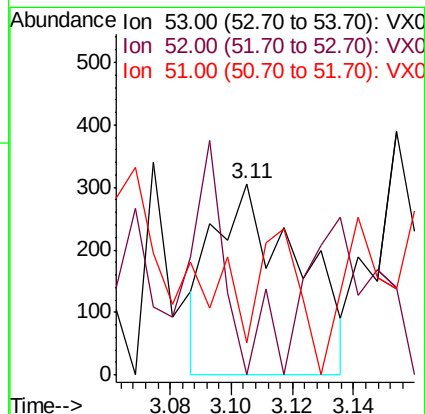
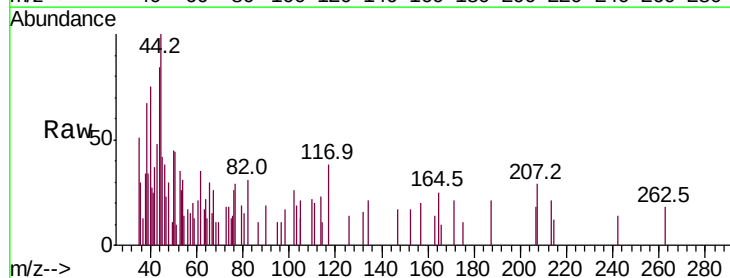
Tgt Ion: 53 Resp: 590

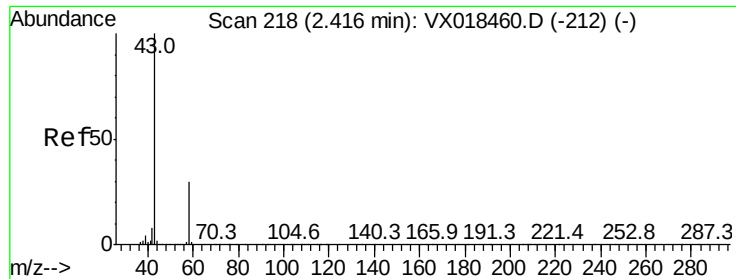
Ion Ratio Lower Upper

53 100

52 0.0 65.8 98.8#

51 35.1 29.2 43.8

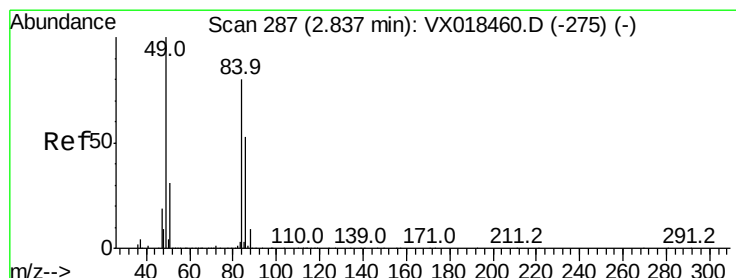
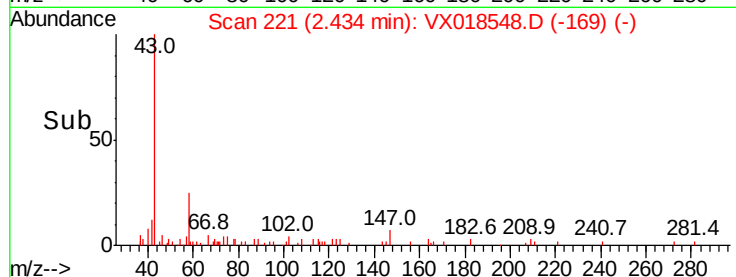
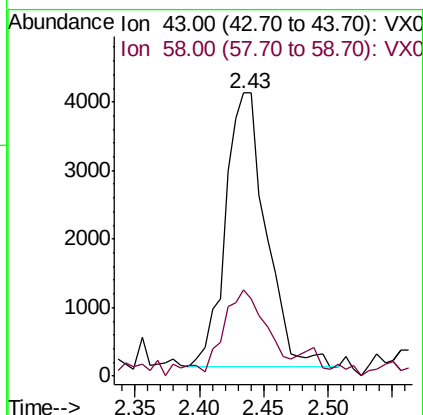
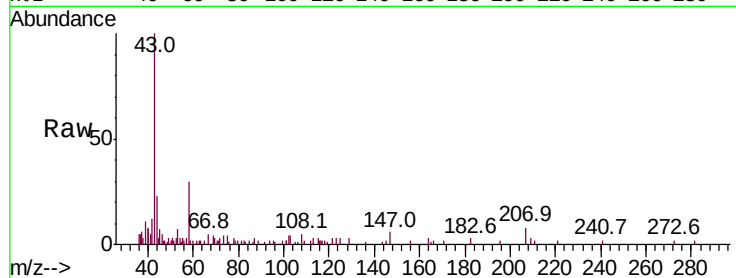




#16  
Acetone  
Concen: 3.525 ug/l  
RT: 2.43 min Scan# 221  
Delta R.T. 0.02 min  
Lab File: VX018548.D  
Acq: 23 Sep 2020 20:37

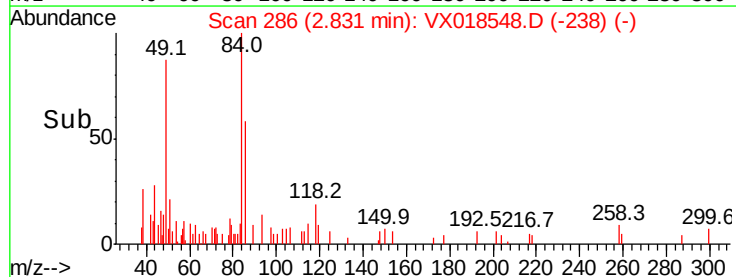
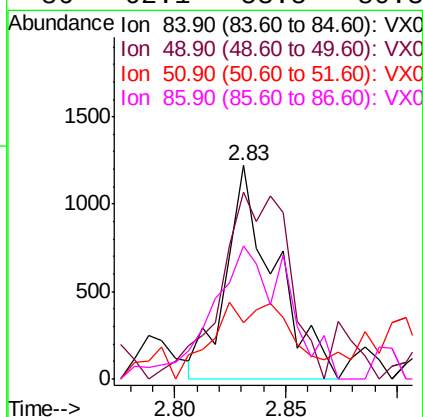
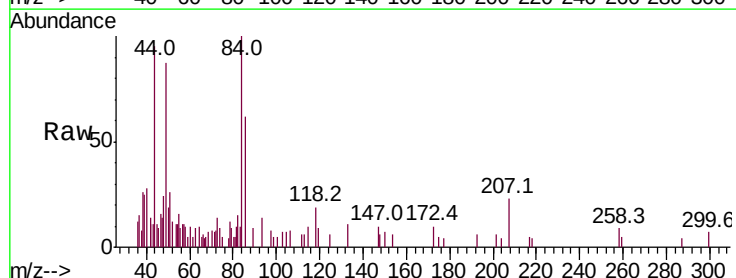
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE104D3-20200917

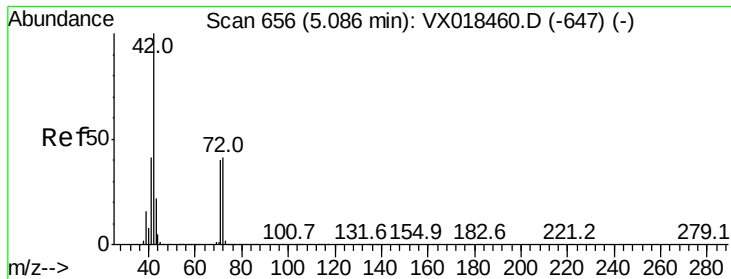
Tot Ion: 43 Resp: 8809  
Ion Ratio Lower Upper  
43 100  
58 27.5 24.0 36.0



#20  
Methylene Chloride  
Concen: 0.340 ug/l  
RT: 2.83 min Scan# 286  
Delta R.T. -0.01 min  
Lab File: VX018548.D  
Acq: 23 Sep 2020 20:37

Tgt Ion: 84 Resp: 1877  
Ion Ratio Lower Upper  
84 100  
49 71.8 100.6 151.0#  
51 14.8 30.9 46.3#  
86 62.1 53.5 80.3





#29

Tetrahydrofuran

Concen: 0.276 ug/l

RT: 5.10 min Scan# 658

Delta R.T. 0.01 min

Lab File: VX018548.D

Acq: 23 Sep 2020 20:37

Instrument :

MSVOA\_X

ClientSampleId :

RE104D3-20200917

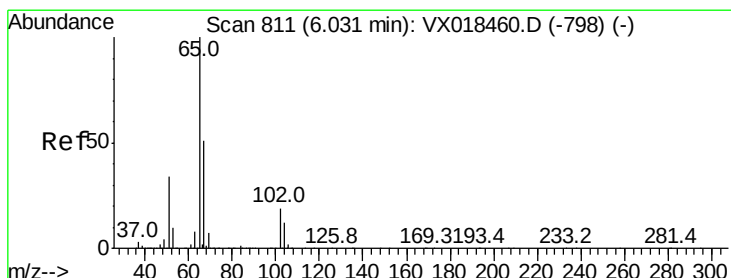
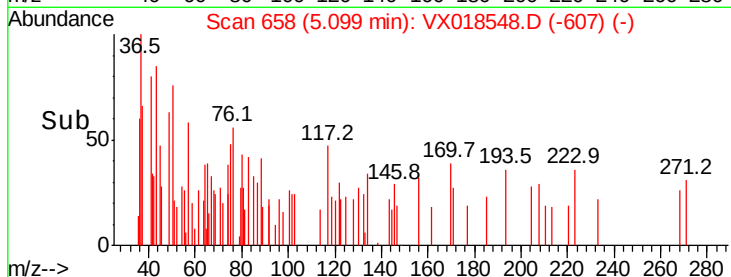
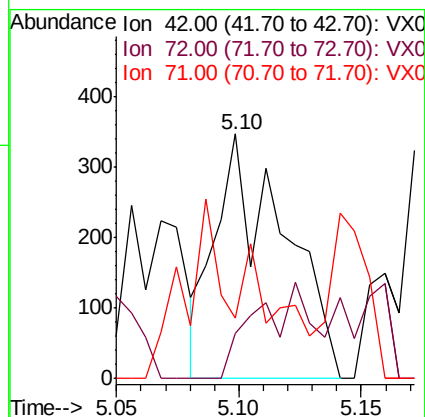
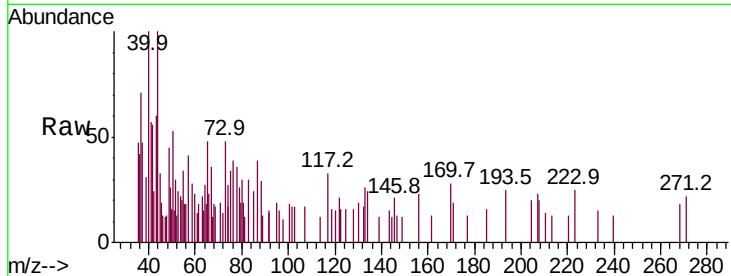
Tot Ion: 42 Resp: 676

Ion Ratio Lower Upper

42 100

72 0.0 34.3 51.5#

71 40.7 32.1 48.1



#33

1,2-Dichloroethane-d4

Concen: 49.391 ug/l

RT: 6.03 min Scan# 811

Delta R.T. 0.00 min

Lab File: VX018548.D

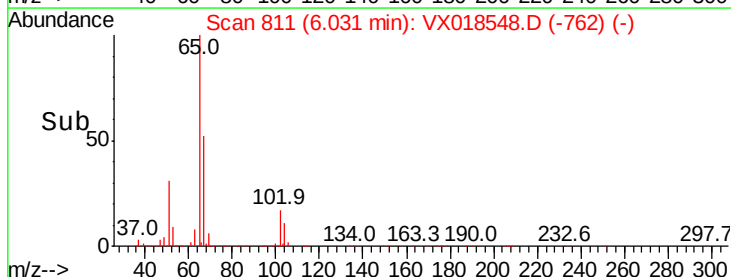
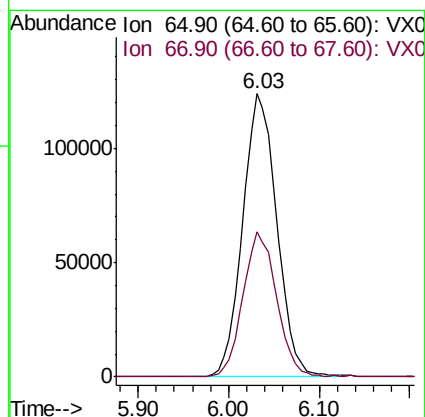
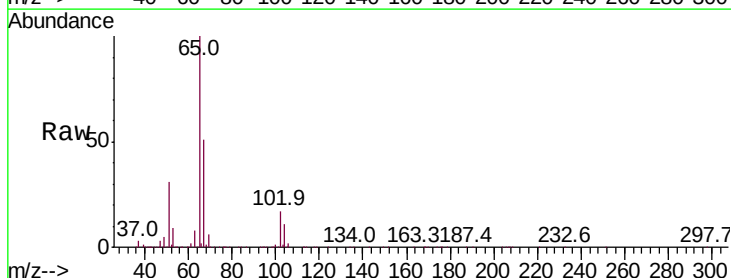
Acq: 23 Sep 2020 20:37

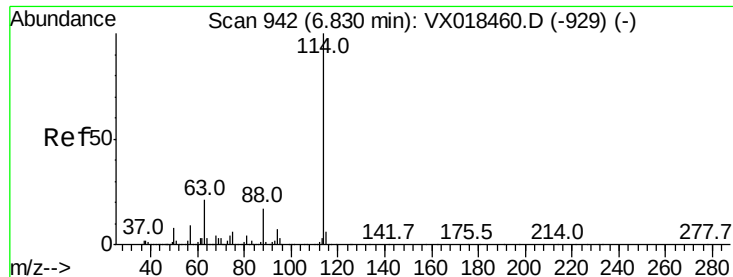
Tgt Ion: 65 Resp: 322705

Ion Ratio Lower Upper

65 100

67 50.7 0.0 105.6

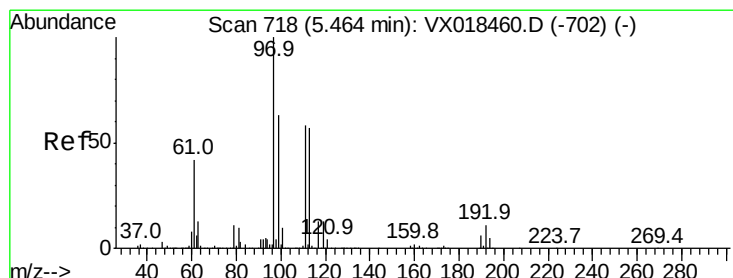
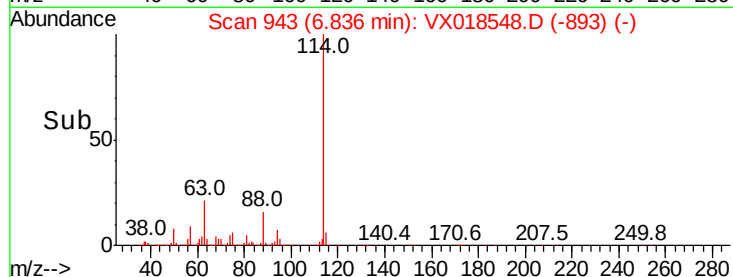
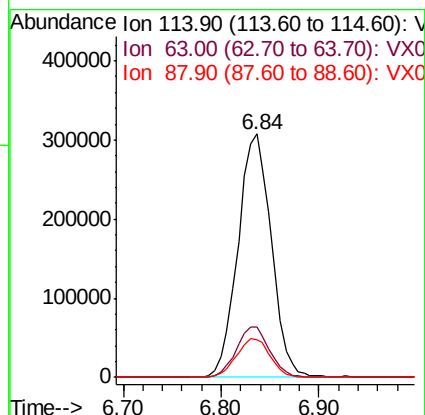
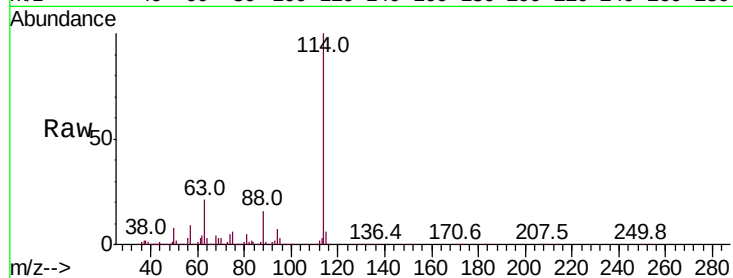




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.84 min Scan# 943  
 Delta R.T. 0.01 min  
 Lab File: VX018548.D  
 Acq: 23 Sep 2020 20:37

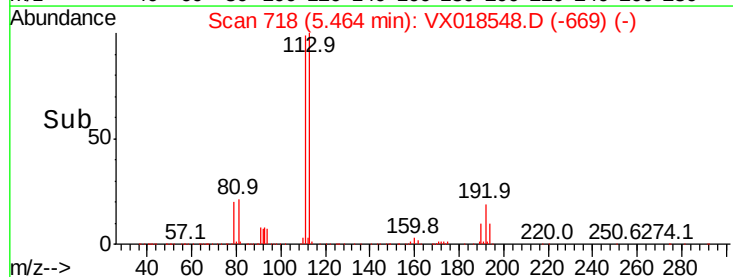
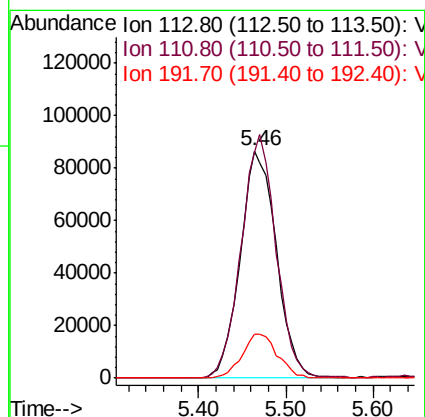
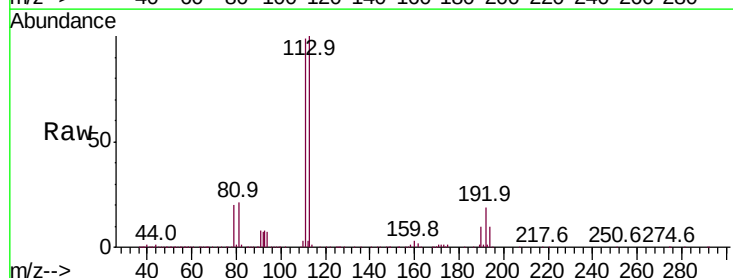
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE104D3-20200917

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 20.5  | 0.0   | 42.8  |
| 88      | 15.6  | 0.0   | 33.6  |

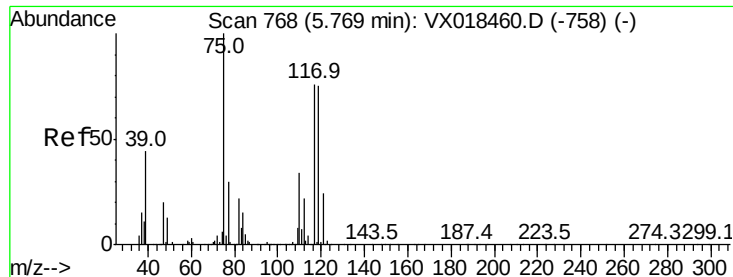


#35  
 Dibromofluoromethane  
 Concen: 49.642 ug/l  
 RT: 5.46 min Scan# 718  
 Delta R.T. 0.00 min  
 Lab File: VX018548.D  
 Acq: 23 Sep 2020 20:37

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.3 | 81.4  | 122.2 |
| 192     | 19.2  | 16.6  | 24.8  |



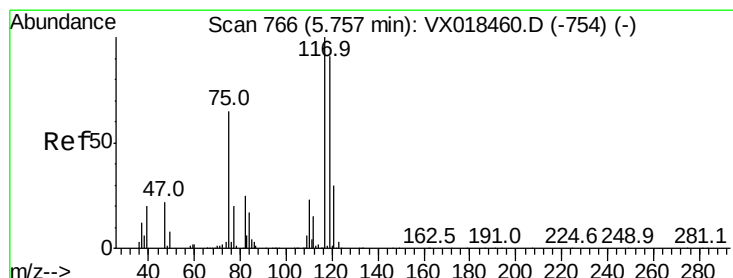
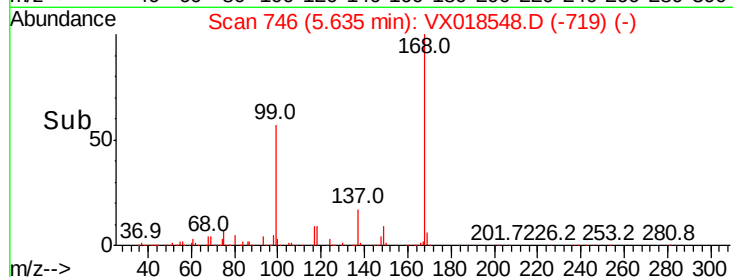
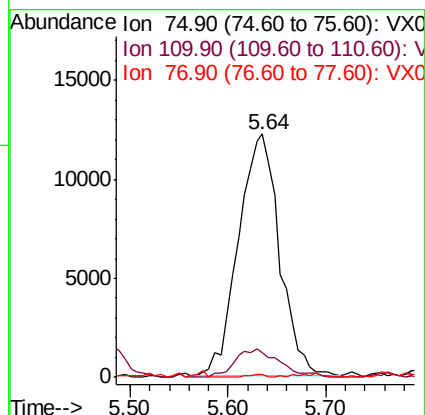
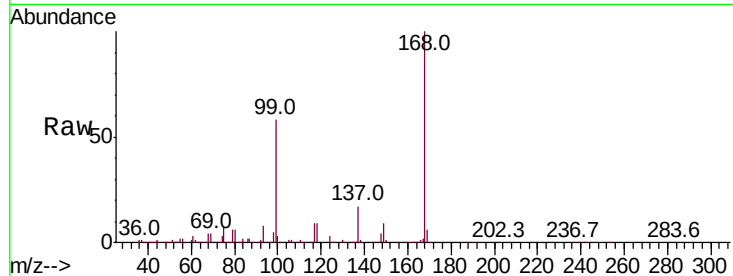




#36  
 1,1-Dichloropropene  
 Concen: 5.041 ug/l  
 RT: 5.64 min Scan# 746  
 Delta R.T. -0.13 min  
 Lab File: VX018548.D  
 Acq: 23 Sep 2020 20:37

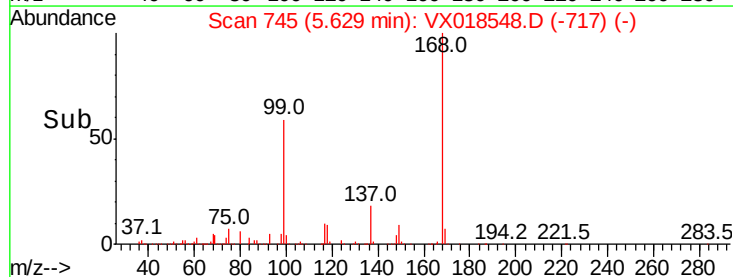
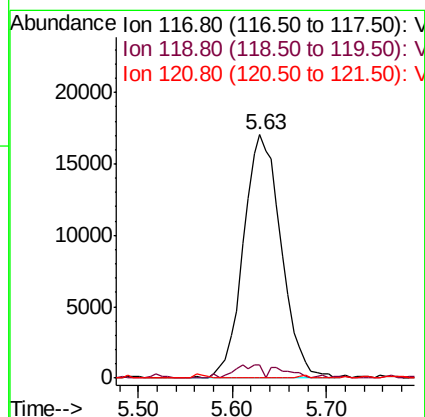
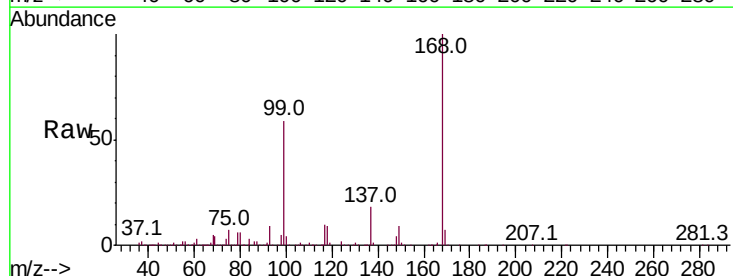
Instrument :  
 MSVOA\_X  
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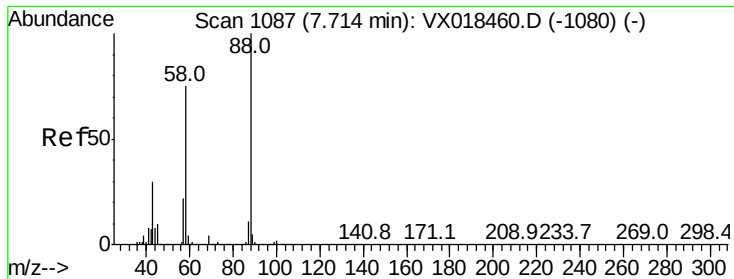
Tot Ion: 75 Resp: 35574  
 Ion Ratio Lower Upper  
 75 100  
 110 12.8 17.6 52.8#  
 77 0.5 25.0 37.6#



#38  
 Carbon Tetrachloride  
 Concen: 6.124 ug/l  
 RT: 5.63 min Scan# 745  
 Delta R.T. -0.13 min  
 Lab File: VX018548.D  
 Acq: 23 Sep 2020 20:37

Tgt Ion: 117 Resp: 47865  
 Ion Ratio Lower Upper  
 117 100  
 119 5.0 72.3 108.5#  
 121 0.0 23.8 35.8#





#49

1,4-Dioxane

Concen: 2.774 ug/l

RT: 7.73 min Scan# 1089

Delta R.T. 0.01 min

Lab File: VX018548.D

Acq: 23 Sep 2020 20:37

Instrument :

MSVOA\_X

ClientSampleId :

RE104D3-20200917

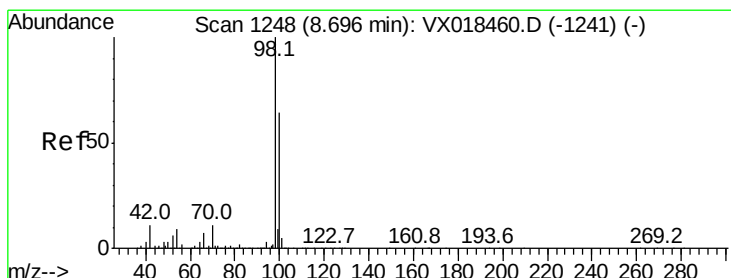
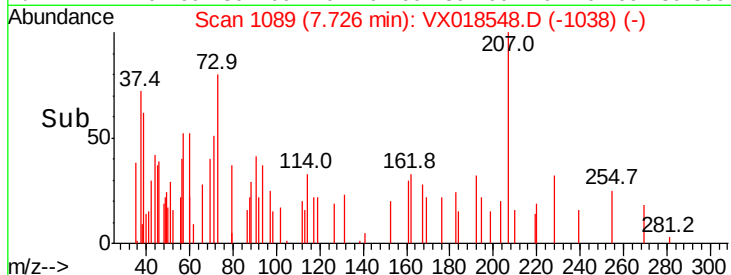
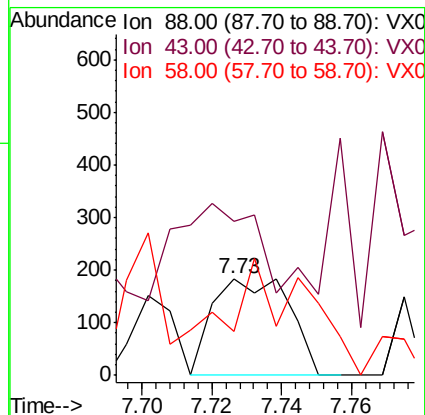
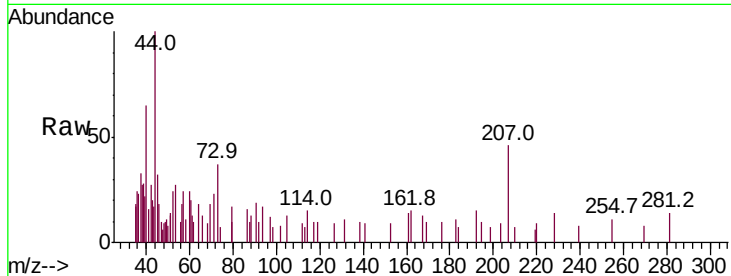
Tot Ion: 88 Resp: 279

Ion Ratio Lower Upper

88 100

43 115.8 29.9 44.9#

58 119.7 59.0 88.6#



#50

Toluene-d8

Concen: 48.805 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. 0.00 min

Lab File: VX018548.D

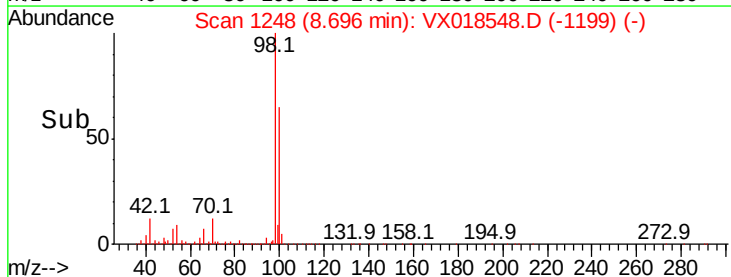
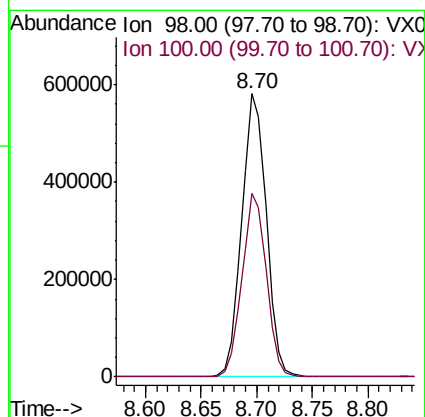
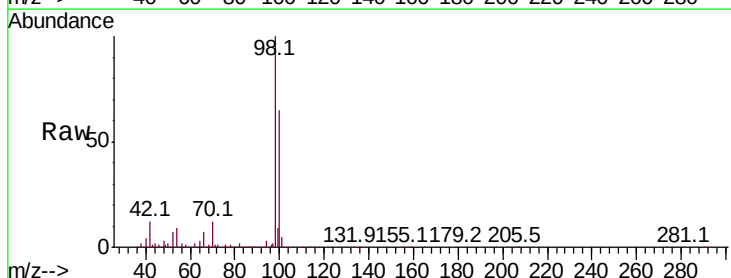
Acq: 23 Sep 2020 20:37

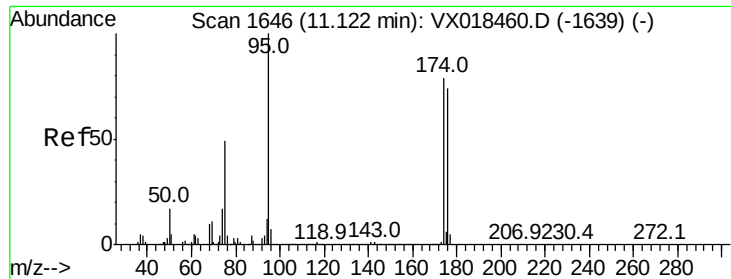
Tgt Ion: 98 Resp: 891369

Ion Ratio Lower Upper

98 100

100 64.2 51.7 77.5





#62

4-Bromofluorobenzene

Concen: 46.495 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX018548.D

Acq: 23 Sep 2020 20:37

Instrument :

MSVOA\_X

ClientSampleId :

RE104D3-20200917

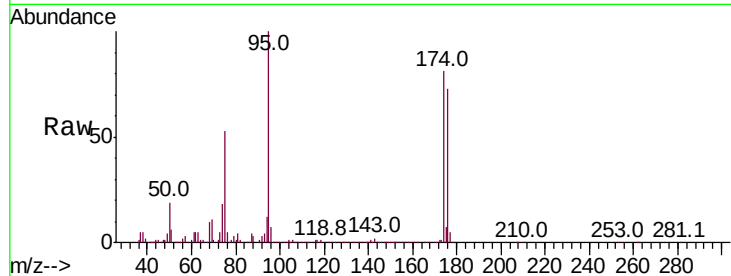
Tot Ion: 95 Resp: 337786

Ion Ratio Lower Upper

95 100

174 81.9 0.0 161.4

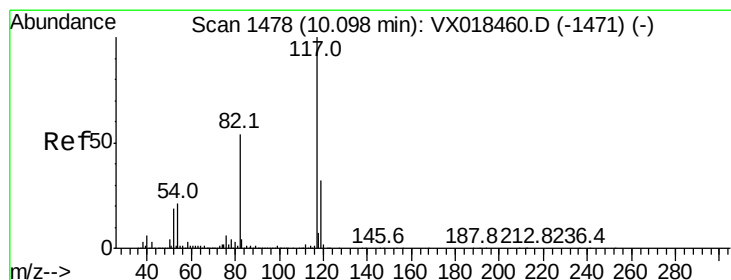
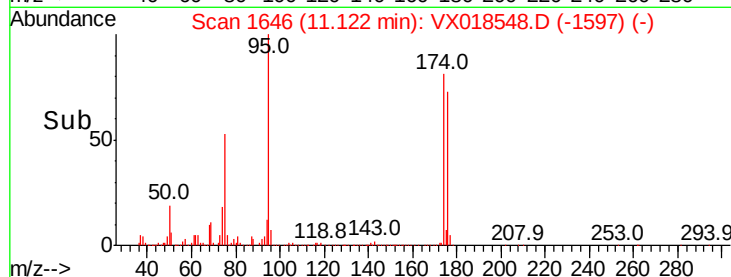
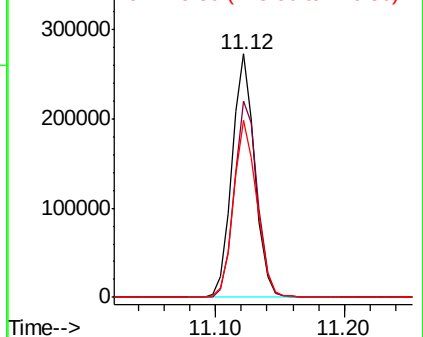
176 74.3 0.0 151.4



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: 10.10 min Scan# 1478

Delta R.T. 0.00 min

Lab File: VX018548.D

Acq: 23 Sep 2020 20:37

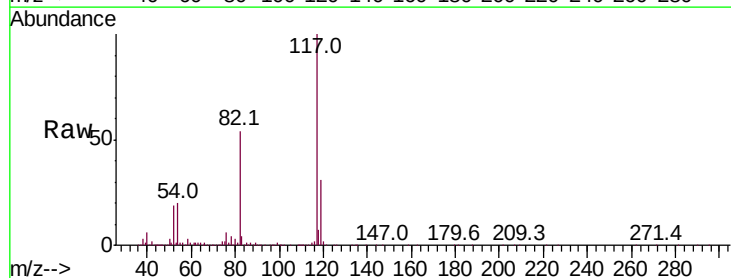
Tgt Ion: 117 Resp: 714372

Ion Ratio Lower Upper

117 100

82 54.4 43.3 64.9

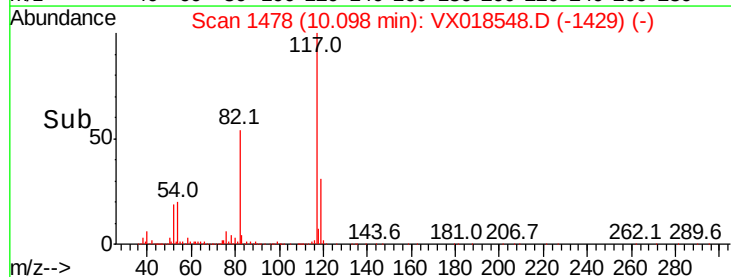
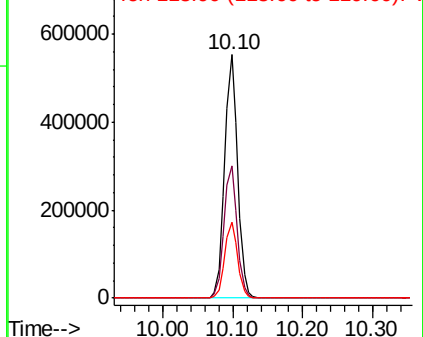
119 31.4 25.9 38.9

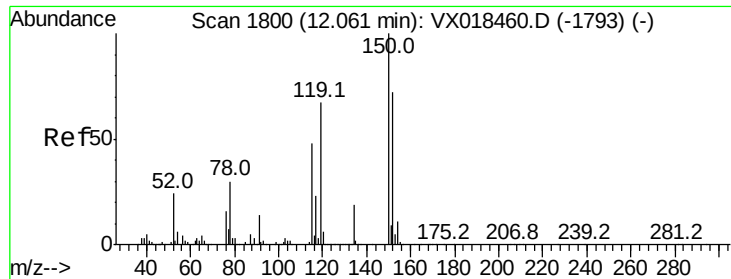


Abundance Ion 116.90 (116.60 to 117.60): V

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: 12.06 min Scan# 1800

Delta R.T. 0.00 min

Lab File: VX018548.D

Acq: 23 Sep 2020 20:37

Instrument :

MSVOA\_X

ClientSampleId :

RE104D3-20200917

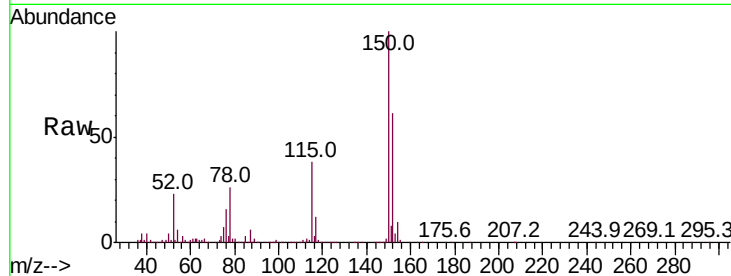
Tot Ion:152 Resp: 354330

Ion Ratio Lower Upper

152 100

115 60.0 41.8 125.4

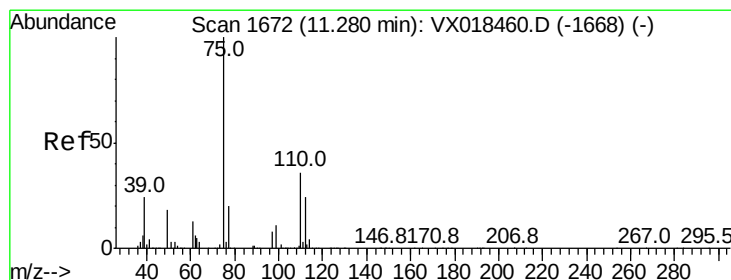
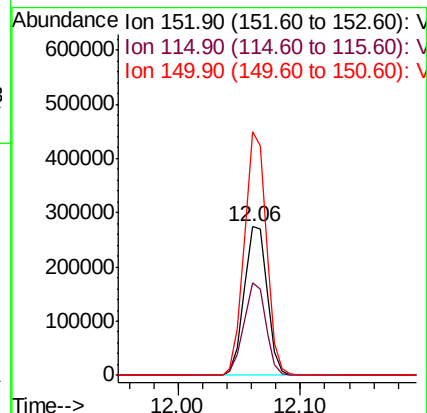
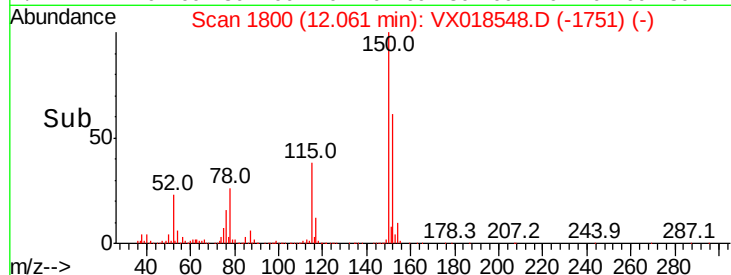
150 157.7 0.0 342.4



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: 23.616 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018548.D

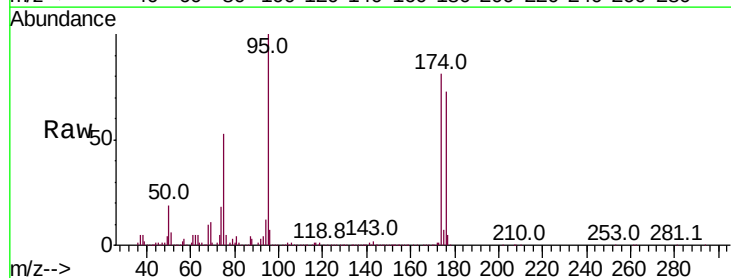
Acq: 23 Sep 2020 20:37

Tgt Ion: 75 Resp: 175846

Ion Ratio Lower Upper

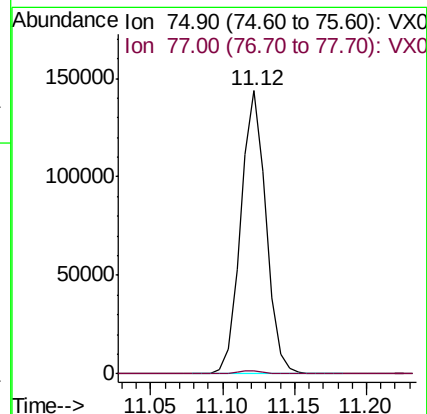
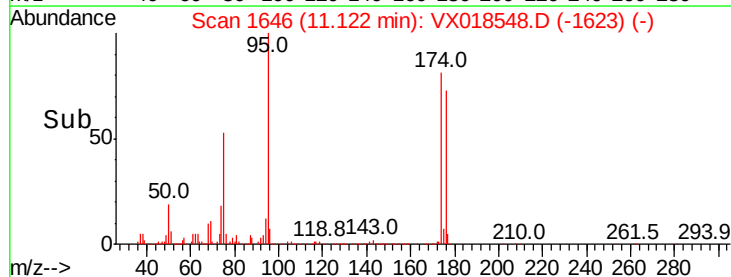
75 100

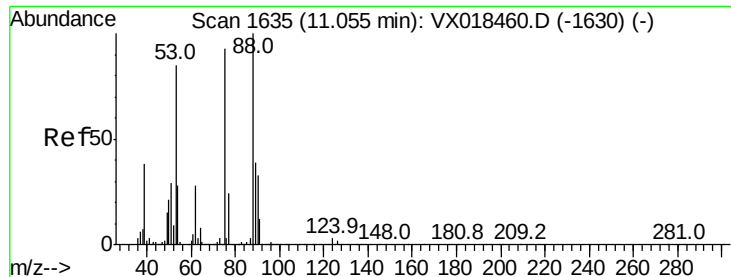
77 1.2 20.9 62.7#



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: 60.516 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX018548.D

Acq: 23 Sep 2020 20:37

Instrument :

MSVOA\_X

ClientSampleId :

RE104D3-20200917

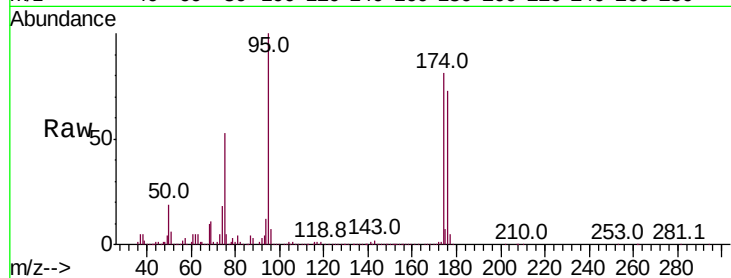
Tot Ion: 75 Resp: 175846

Ion Ratio Lower Upper

75 100

53 0.6 74.6 111.8#

89 0.1 36.2 54.4#



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

