

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX103018\  
 Data File : VX005699.D  
 Acq On : 30 Oct 2018 18:34  
 Operator : JC/MD  
 Sample : J5692-13  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FT-PZ458I-20181025

Quant Time: Oct 31 01:04:36 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X102418W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 25 02:52:45 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 225975   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 326818   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 289845   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 141912   | 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   | 142865   | 51.79 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.58% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 109370   | 49.42 | ug/l    | 0.01     |
| Spiked Amount               |       |      | Recovery | =     | 98.84%  |          |
| 50) Toluene-d8              | 8.71  | 98   | 382433   | 48.10 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.20%  |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 127964   | 42.61 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 85.22%  |          |

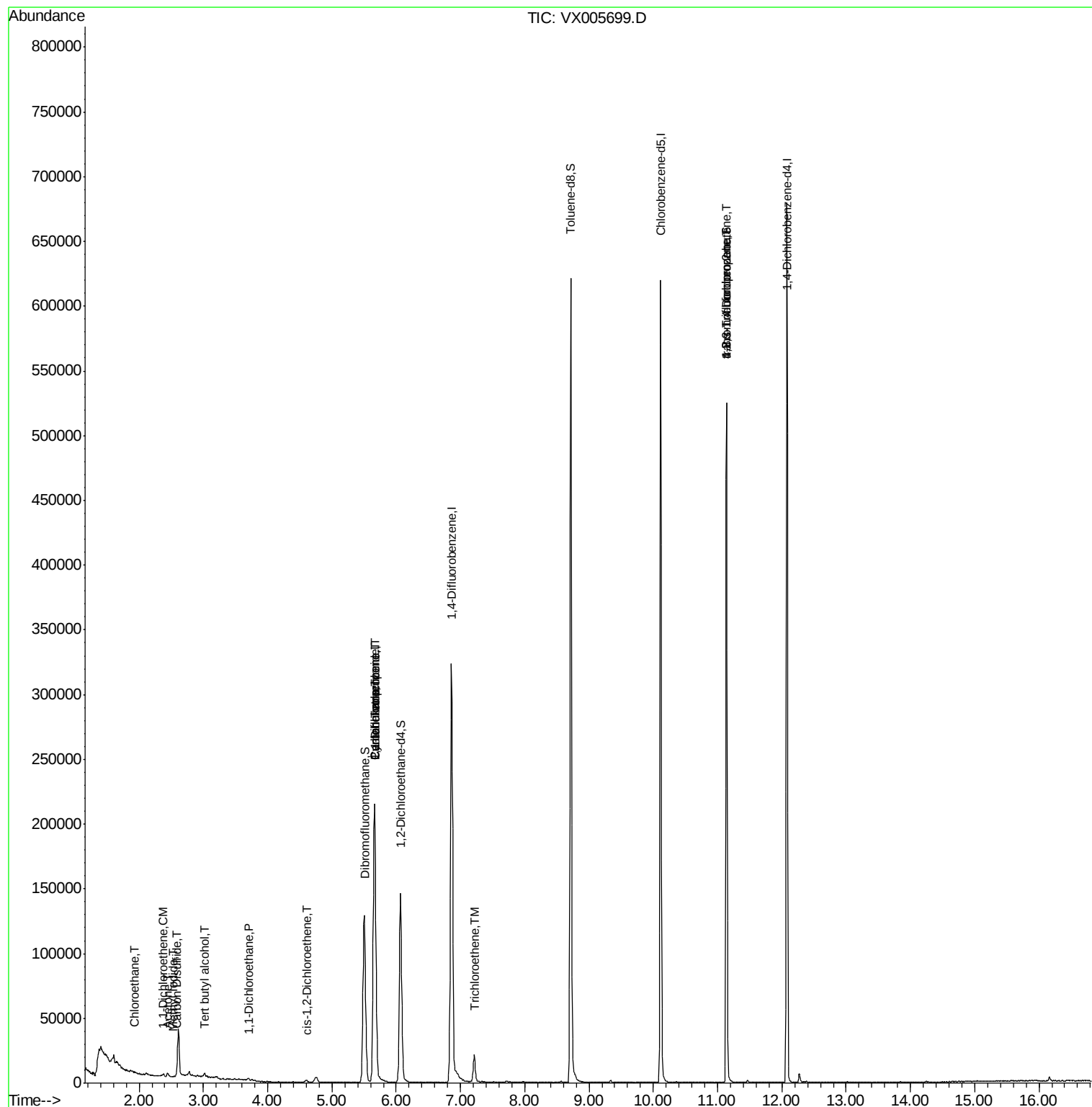
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 6) Chloroethane                | 1.92  | 64   | 432      | 0.242     | ug/l # | 42     |
| 10) Methyl Iodide              | 2.52  | 142  | 20       | 2.733     | ug/l # | 39     |
| 11) Tert butyl alcohol         | 3.02  | 59   | 2188     | 2.948     | ug/l # | 75     |
| 12) 1,1-Dichloroethene         | 2.37  | 96   | 636      | 0.300     | ug/l   | 92     |
| 16) Acetone                    | 2.44  | 43   | 3065     | 2.103     | ug/l # | 87     |
| 17) Carbon Disulfide           | 2.57  | 76   | 1980     | 0.306     | ug/l # | 71     |
| 18) Methyl Acetate             | 2.78  | 43   | 3294     | Below Cal |        | 100    |
| 24) 1,1-Dichloroethane         | 3.70  | 63   | 1109     | 0.247     | ug/l # | 82     |
| 27) cis-1,2-Dichloroethene     | 4.60  | 96   | 999      | 0.400     | ug/l # | 16     |
| 31) Cyclohexane                | 5.66  | 56   | 4222     | 1.135     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 15264    | 4.813     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 20704    | 6.198     | ug/l # | 16     |
| 44) Trichloroethene            | 7.21  | 130  | 8364     | 3.377     | ug/l   | 99     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 64564    | 21.473    | ug/l # | 37     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 64564    | 70.163    | ug/l # | 9      |

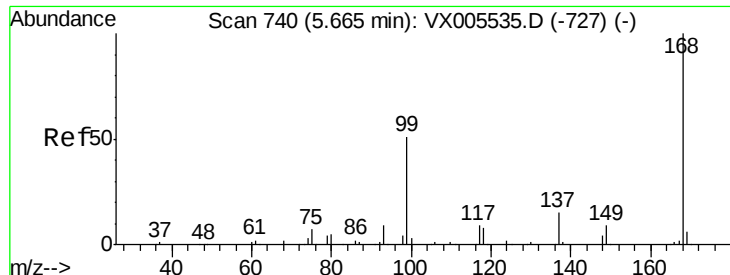
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX103018\  
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Quant Time: Oct 31 01:04:36 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X102418W.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 25 02:52:45 2018  
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: VX005699.D

Acq: 30 Oct 2018 18:34

Instrument :

MSVOA\_X

ClientSampleId :

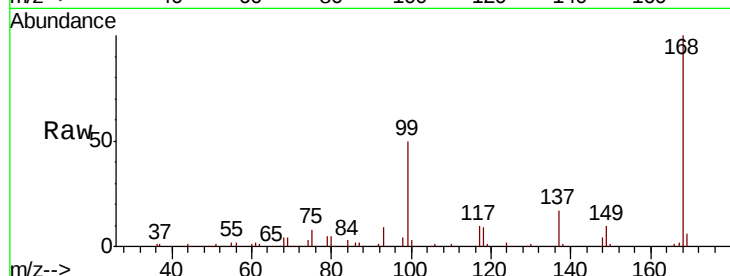
FT-PZ458I-20181025

Tot Ion:168 Resp: 225975

Ion Ratio Lower Upper

168 100

99 49.8 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

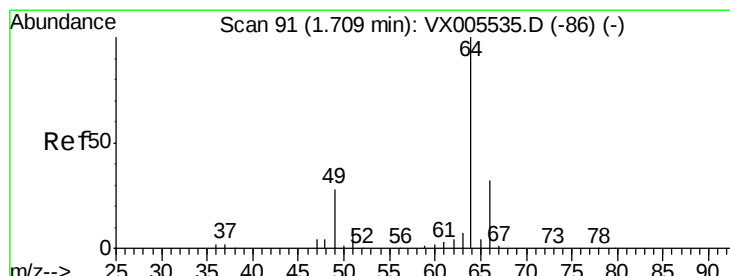
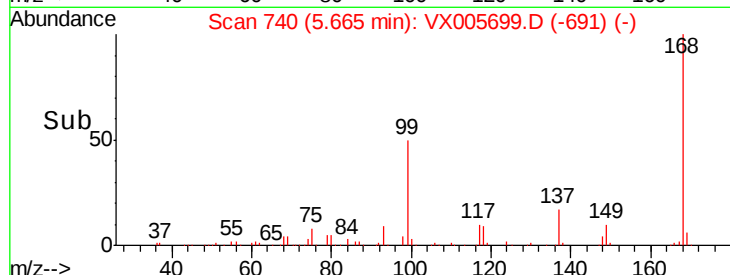
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#6

Chloroethane

Concen: 0.242 ug/l

RT: 1.92 min Scan# 126

Delta R.T. 0.21 min

Lab File: VX005699.D

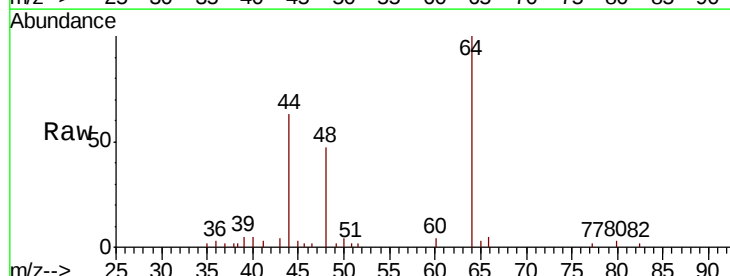
Acq: 30 Oct 2018 18:34

Tgt Ion: 64 Resp: 432

Ion Ratio Lower Upper

64 100

66 0.0 25.8 38.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.92

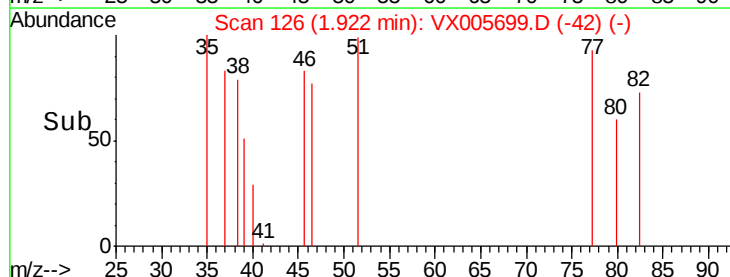
3000

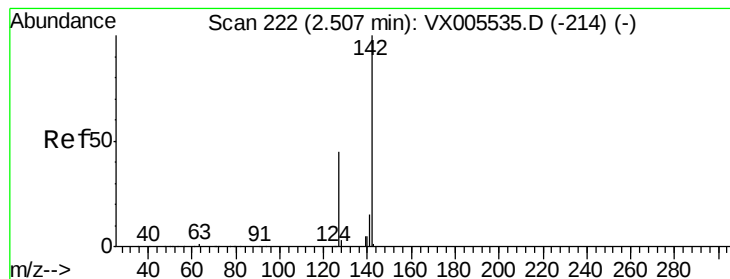
2000

1000

0

Time--> 1.90 1.91 1.92 1.93 1.94





#10

Methyl Iodide

Concen: 2.733 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX005699.D

Acq: 30 Oct 2018 18:34

Instrument :

MSVOA\_X

ClientSampleId :

FT-PZ458I-20181025

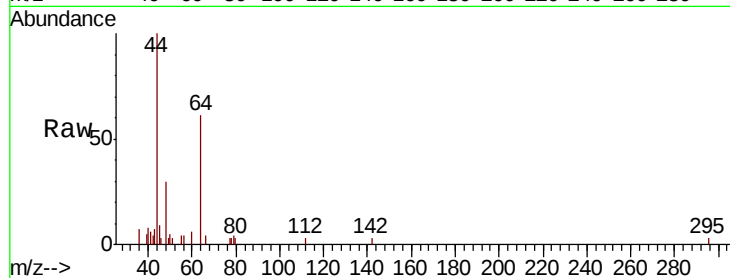
Tot Ion:142 Resp: 20

Ion Ratio Lower Upper

142 100

127 0.0 36.0 54.0#

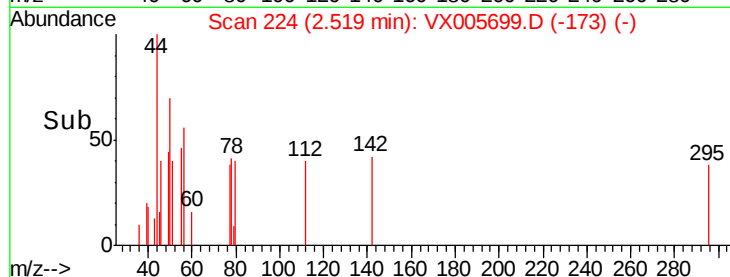
141 0.0 11.7 17.5#



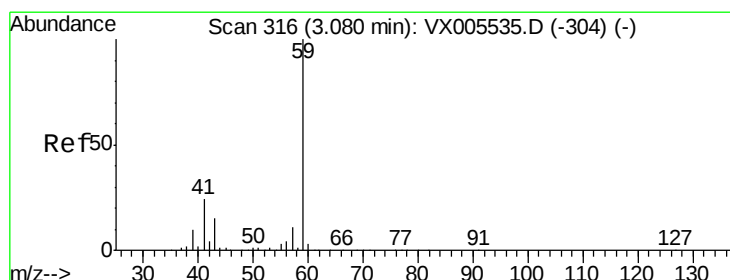
Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



Time-->



#11

Tert butyl alcohol

Concen: 2.948 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.06 min

Lab File: VX005699.D

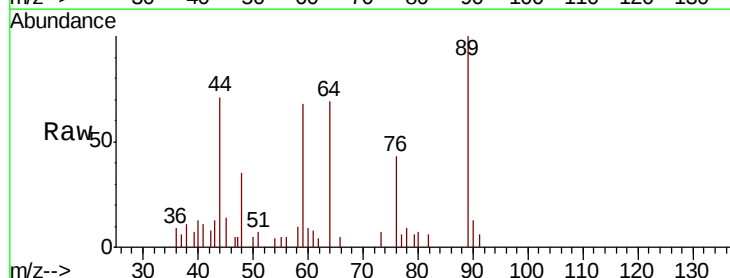
Acq: 30 Oct 2018 18:34

Tgt Ion: 59 Resp: 2188

Ion Ratio Lower Upper

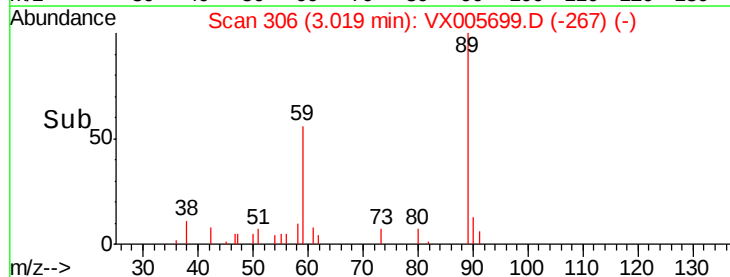
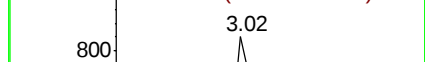
59 100

57 1.1 8.5 12.7#

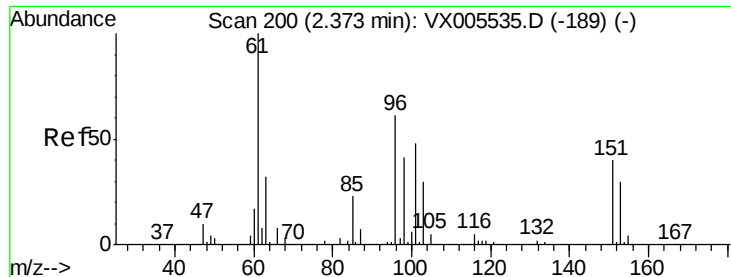


Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0



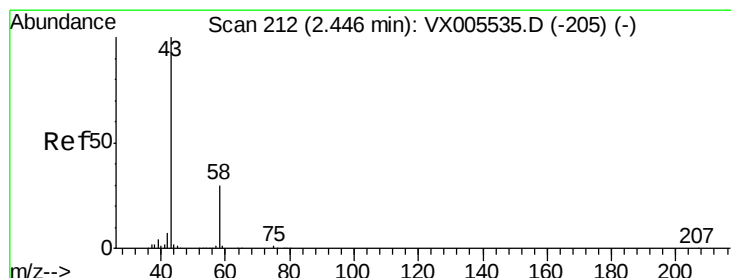
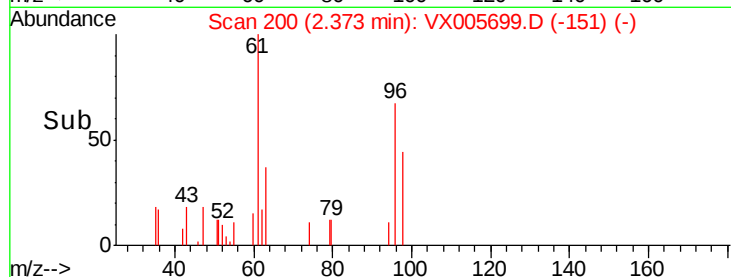
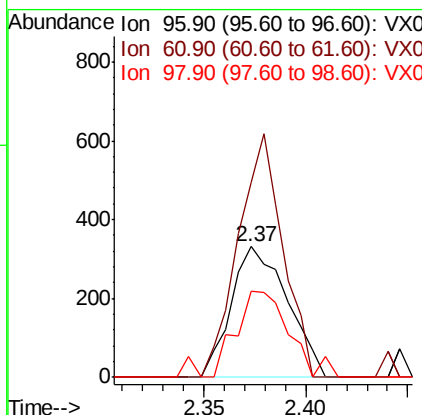
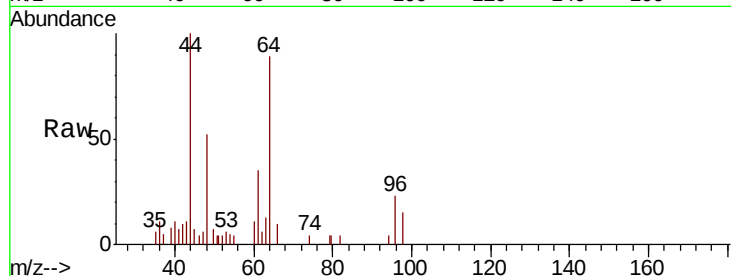
Time-->



#12  
 1,1-Dichloroethene  
 Concen: 0.300 ug/l  
 RT: 2.37 min Scan# 200  
 Delta R.T. -0.00 min  
 Lab File: VX005699.D  
 Acq: 30 Oct 2018 18:34

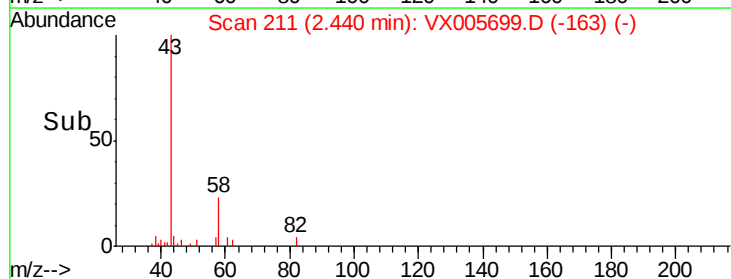
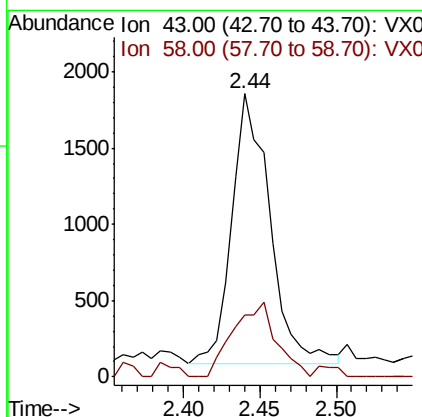
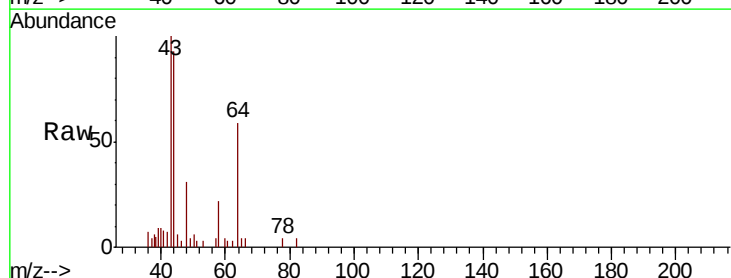
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 FT-PZ458I-20181025

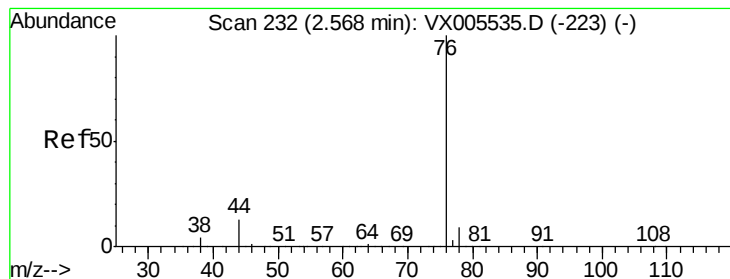
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 96      | 100   |       |       |
| 61      | 149.2 | 131.8 | 197.8 |
| 98      | 66.2  | 53.4  | 80.2  |



#16  
 Acetone  
 Concen: 2.103 ug/l  
 RT: 2.44 min Scan# 211  
 Delta R.T. -0.01 min  
 Lab File: VX005699.D  
 Acq: 30 Oct 2018 18:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 58      | 22.9  | 23.8  | 35.6# |





#17

Carbon Disulfide

Concen: 0.306 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX005699.D

Acq: 30 Oct 2018 18:34

Instrument :

MSVOA\_X

ClientSampleId :

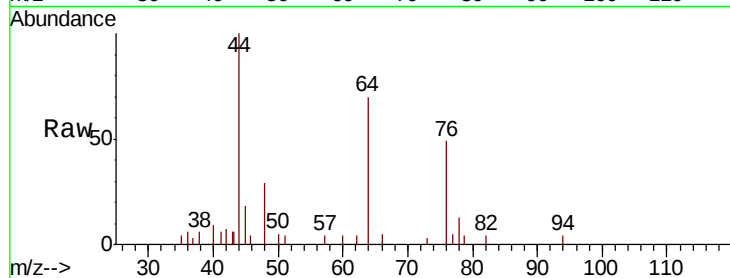
FT-PZ458I-20181025

Tot Ion: 76 Resp: 1980

Ion Ratio Lower Upper

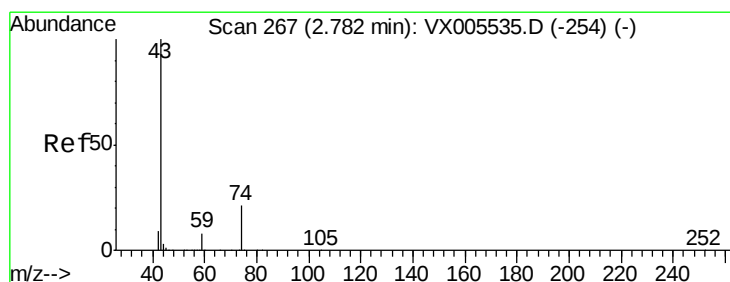
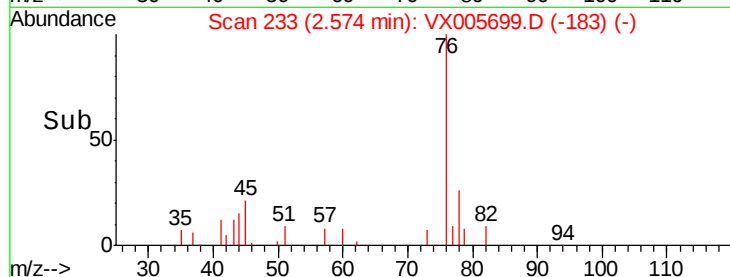
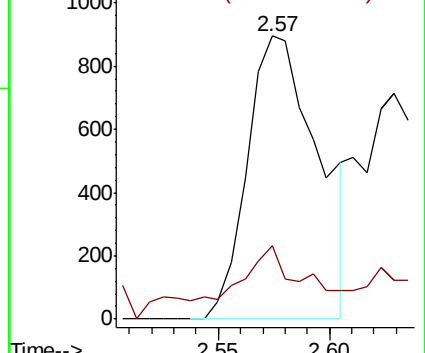
76 100

78 19.4 7.3 10.9#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: Below Cal

RT: 2.78 min Scan# 267

Delta R.T. 0.00 min

Lab File: VX005699.D

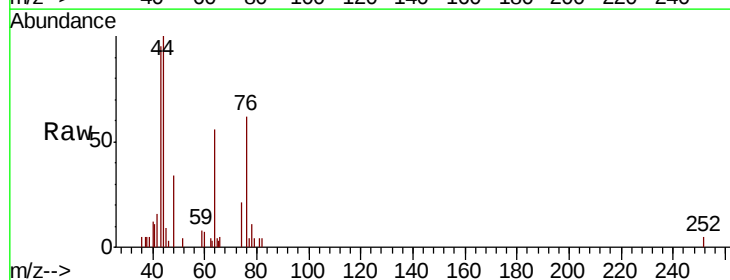
Acq: 30 Oct 2018 18:34

Tgt Ion: 43 Resp: 3294

Ion Ratio Lower Upper

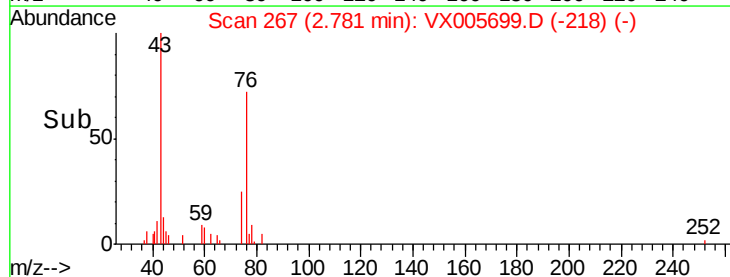
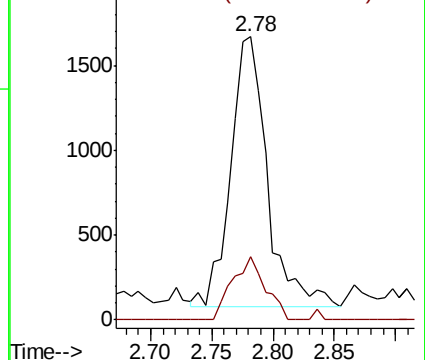
43 100

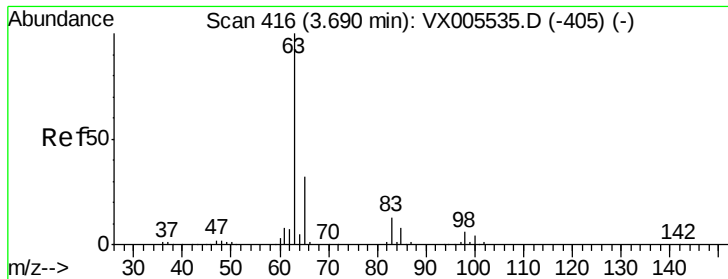
74 21.2 16.8 25.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#24

1,1-Dichloroethane

Concen: 0.247 ug/l

RT: 3.70 min Scan# 418

Delta R.T. 0.01 min

Lab File: VX005699.D

Acq: 30 Oct 2018 18:34

Instrument :

MSVOA\_X

ClientSampleId :

FT-PZ458I-20181025

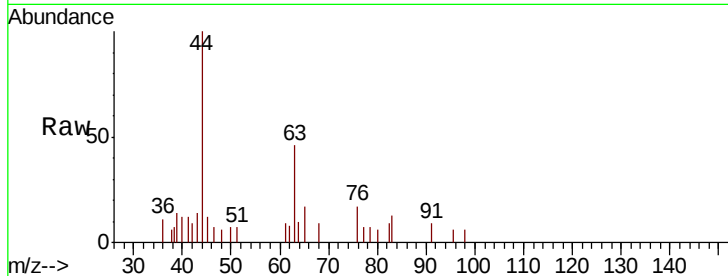
Tot Ion: 63 Resp: 1109

Ion Ratio Lower Upper

63 100

98 13.7 3.2 9.6#

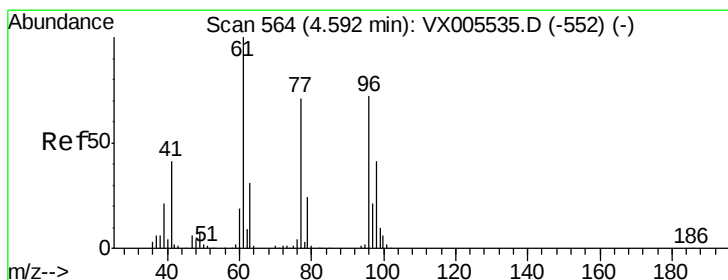
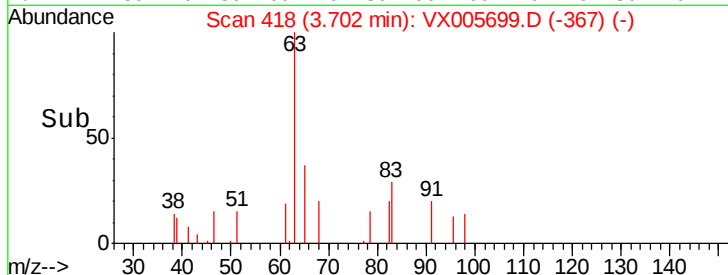
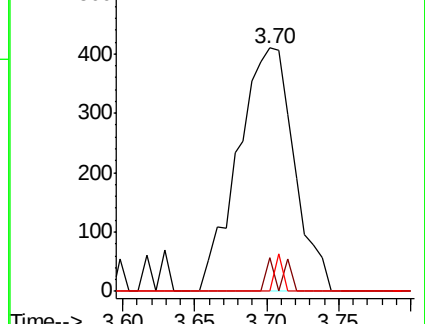
100 0.0 2.1 6.2#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 0.400 ug/l

RT: 4.60 min Scan# 566

Delta R.T. 0.01 min

Lab File: VX005699.D

Acq: 30 Oct 2018 18:34

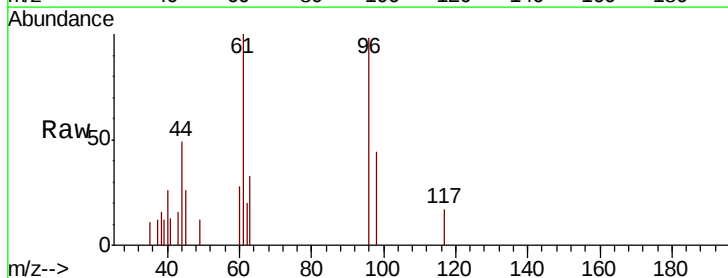
Tgt Ion: 96 Resp: 999

Ion Ratio Lower Upper

96 100

61 0.0 0.0 304.6

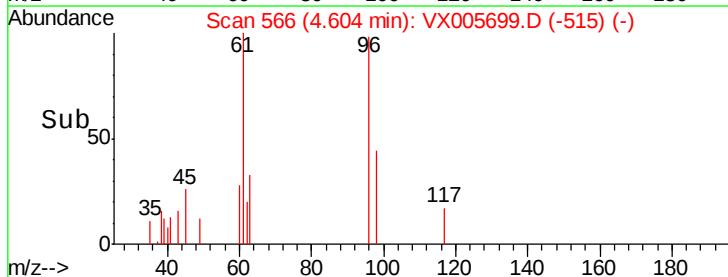
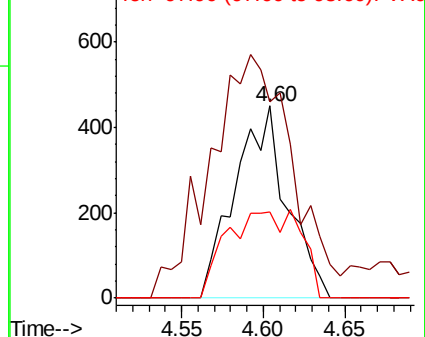
98 64.4 0.0 127.4

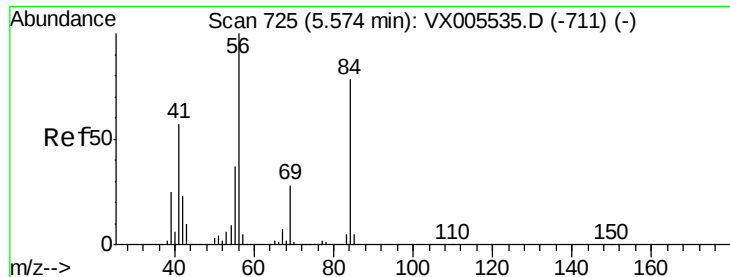


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

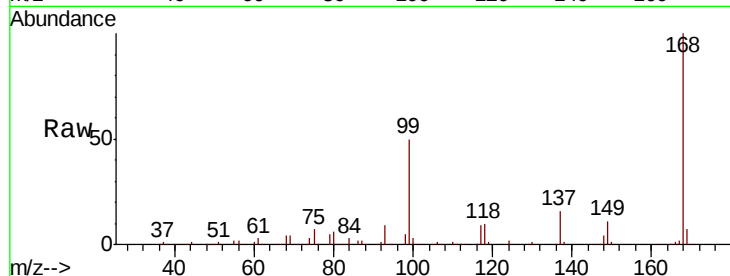




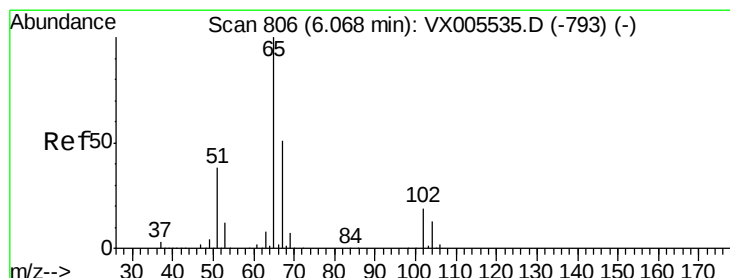
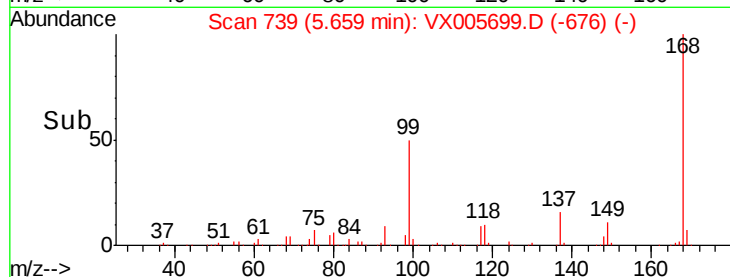
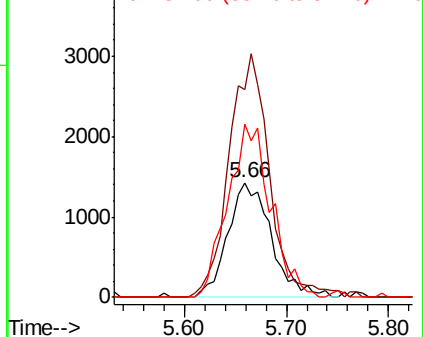
#31  
Cyclohexane  
Concen: 1.135 ug/l  
RT: 5.66 min Scan# 739  
Delta R.T. 0.09 min  
Lab File: VX005699.D  
Acq: 30 Oct 2018 18:34

Instrument :  
MSVOA\_X  
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FT-PZ458I-20181025

Tot Ion: 56 Resp: 4222  
Ion Ratio Lower Upper  
56 100  
69 181.7 22.6 34.0#  
84 150.7 62.7 94.1#

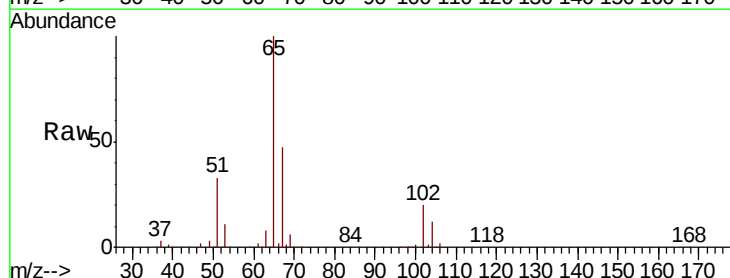


Abundance Ion 56.00 (55.70 to 56.70): VX0  
Ion 69.00 (68.70 to 69.70): VX0  
Ion 84.00 (83.70 to 84.70): VX0

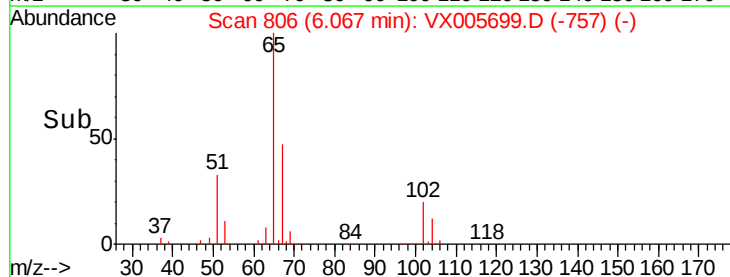
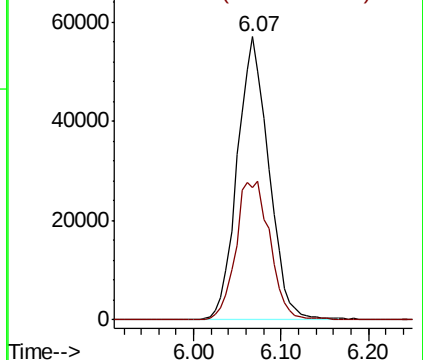


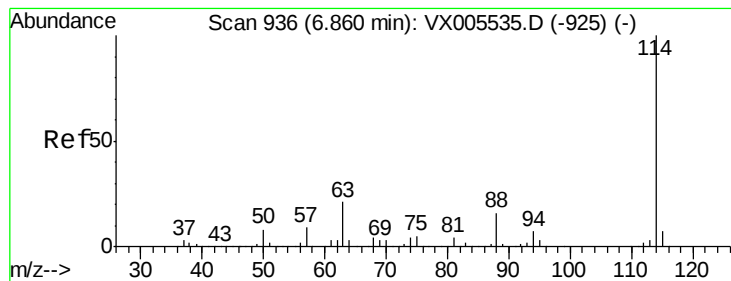
#33  
1,2-Dichloroethane-d4  
Concen: 51.792 ug/l  
RT: 6.07 min Scan# 806  
Delta R.T. -0.00 min  
Lab File: VX005699.D  
Acq: 30 Oct 2018 18:34

Tgt Ion: 65 Resp: 142865  
Ion Ratio Lower Upper  
65 100  
67 53.5 0.0 105.0



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: VX005699.D

Acq: 30 Oct 2018 18:34

Instrument :

MSVOA\_X

ClientSampleId :

FT-PZ458I-20181025

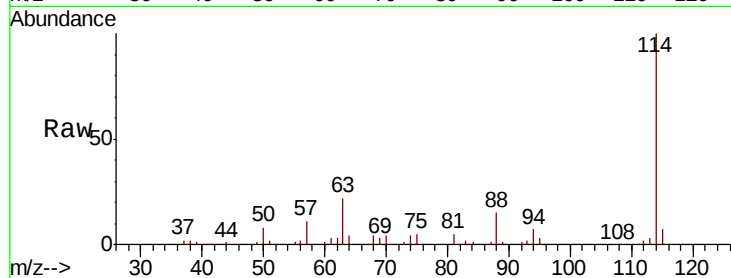
Tot Ion:114 Resp: 326818

Ion Ratio Lower Upper

114 100

63 21.9 0.0 42.8

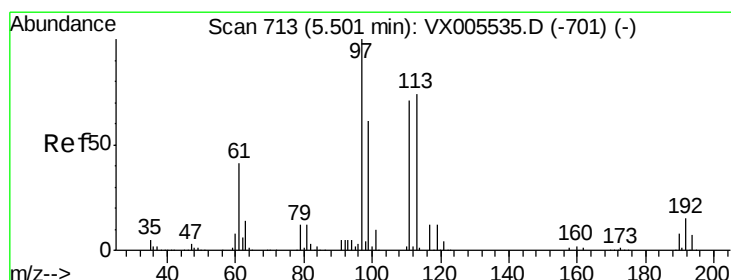
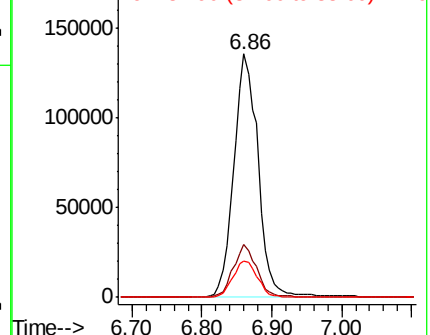
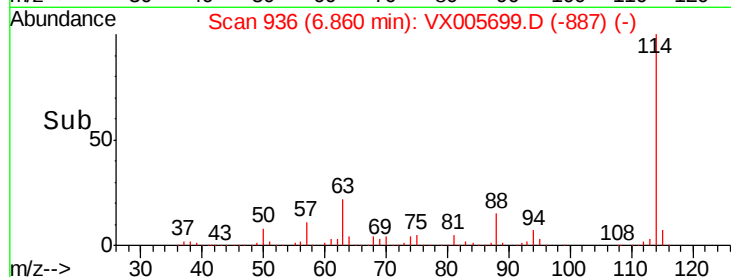
88 14.9 0.0 31.2



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: 49.423 ug/l

RT: 5.51 min Scan# 715

Delta R.T. 0.01 min

Lab File: VX005699.D

Acq: 30 Oct 2018 18:34

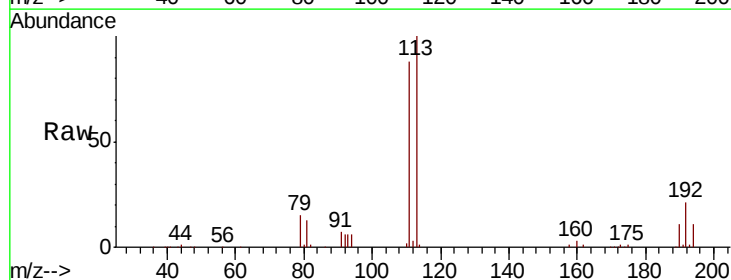
Tgt Ion:113 Resp: 109370

Ion Ratio Lower Upper

113 100

111 104.4 82.3 123.5

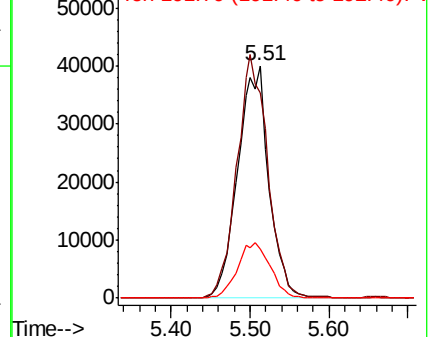
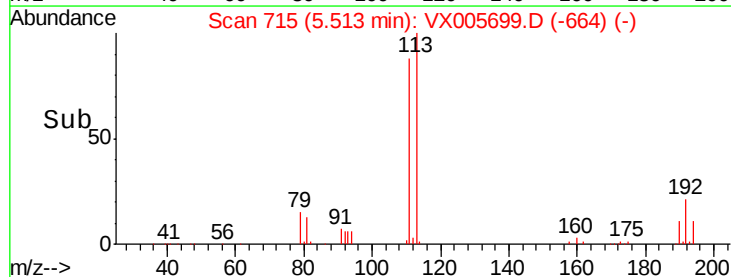
192 25.3 17.9 26.9

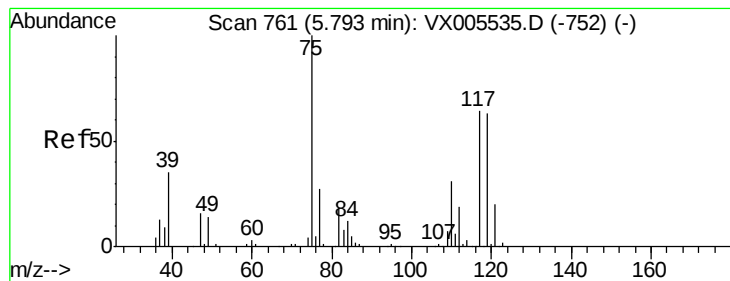


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.813 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX005699.D

Acq: 30 Oct 2018 18:34

Instrument :

MSVOA\_X

ClientSampleId :

FT-PZ458I-20181025

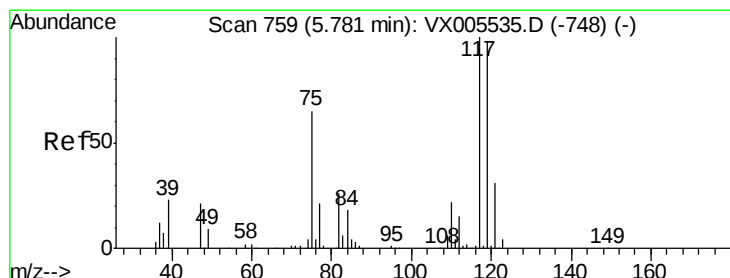
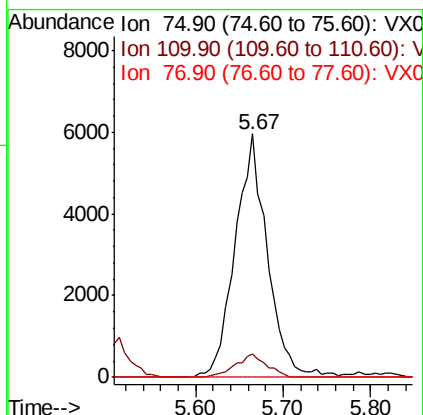
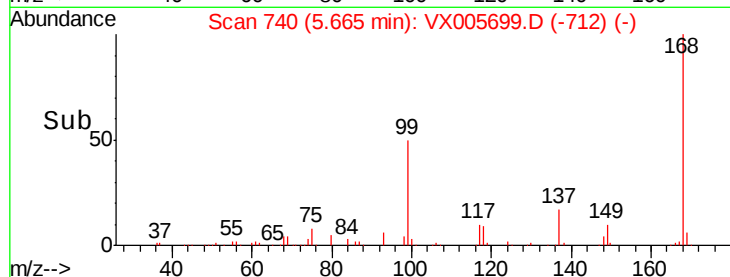
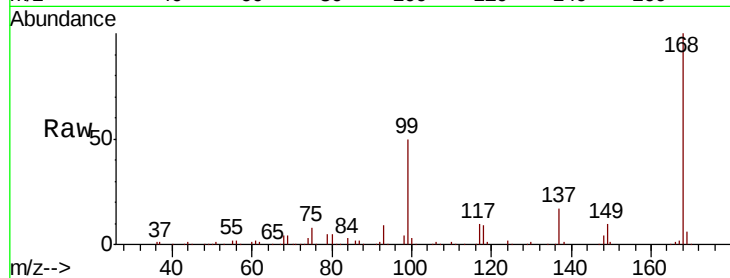
Tot Ion: 75 Resp: 15264

Ion Ratio Lower Upper

75 100

110 9.3 17.4 52.2#

77 0.0 25.8 38.6#



#38

Carbon Tetrachloride

Concen: 6.198 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX005699.D

Acq: 30 Oct 2018 18:34

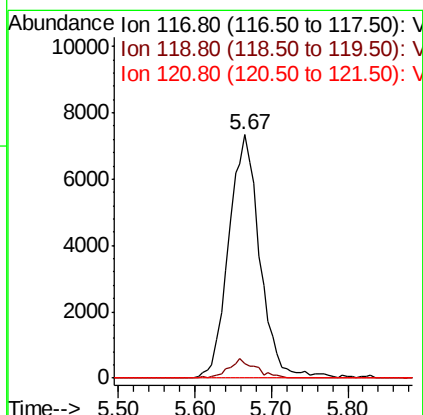
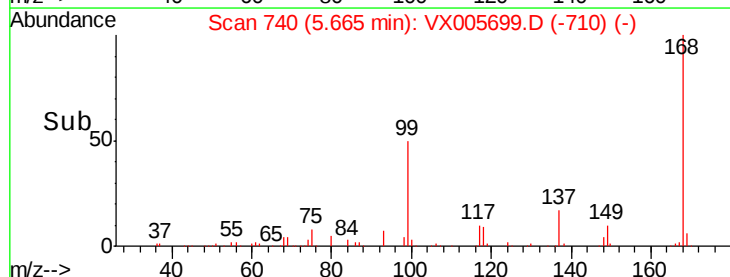
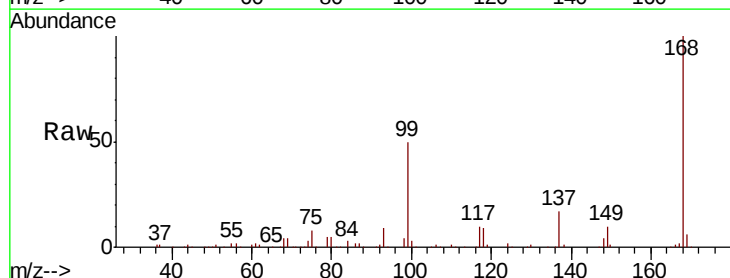
Tgt Ion: 117 Resp: 20704

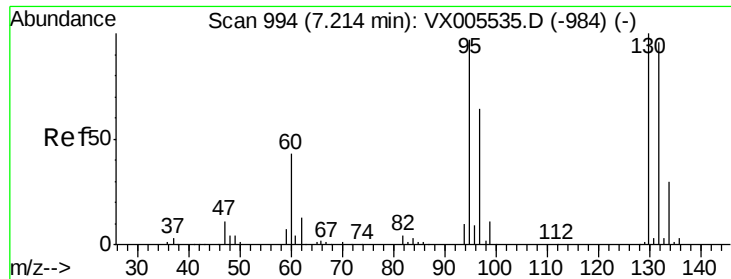
Ion Ratio Lower Upper

117 100

119 6.1 78.1 117.1#

121 0.0 24.6 36.8#





#44

Trichloroethene

Concen: 3.377 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX005699.D

Acq: 30 Oct 2018 18:34

Instrument :

MSVOA\_X

ClientSampleId :

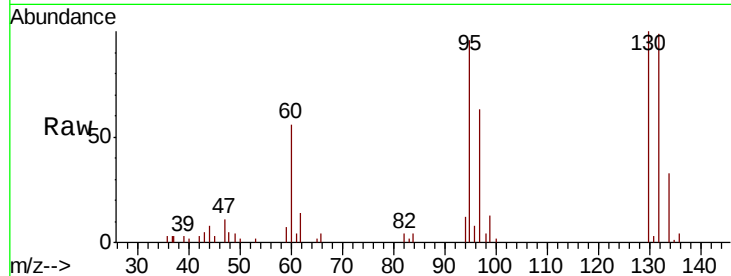
FT-PZ458I-20181025

Tot Ion:130 Resp: 8364

Ion Ratio Lower Upper

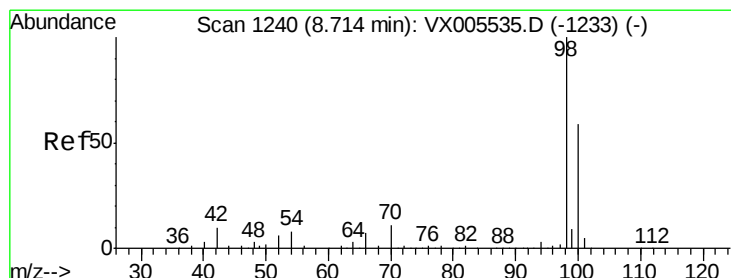
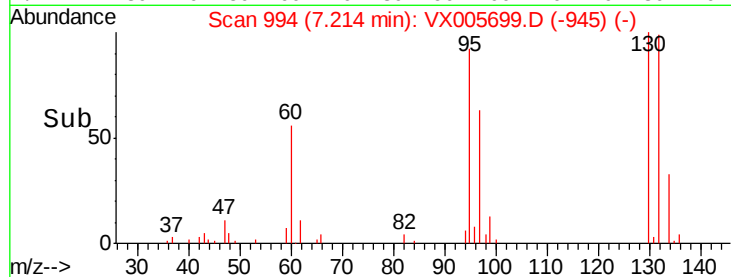
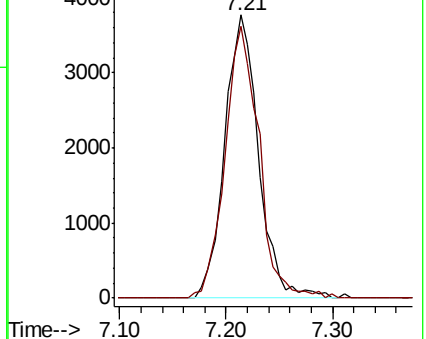
130 100

95 95.9 0.0 194.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#50

Toluene-d8

Concen: 48.095 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX005699.D

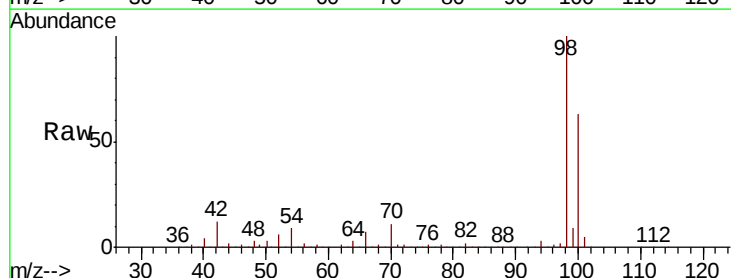
Acq: 30 Oct 2018 18:34

Tgt Ion: 98 Resp: 382433

Ion Ratio Lower Upper

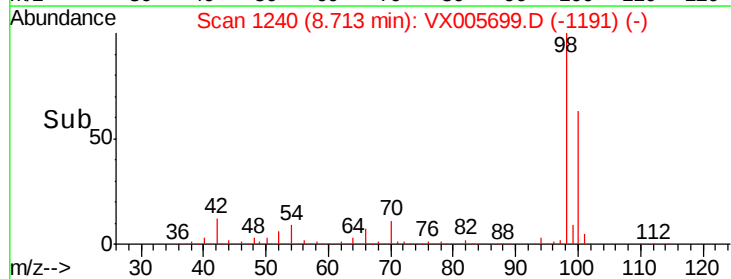
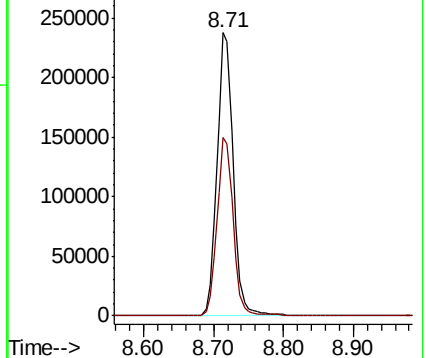
98 100

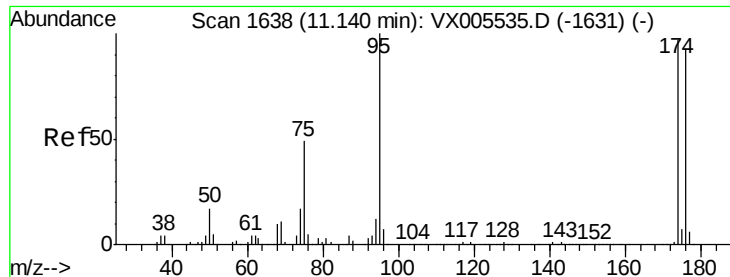
100 63.0 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#62

4-Bromofluorobenzene

Concen: 42.614 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.00 min

Lab File: VX005699.D

Acq: 30 Oct 2018 18:34

Instrument :

MSVOA\_X

ClientSampleId :

FT-PZ458I-20181025

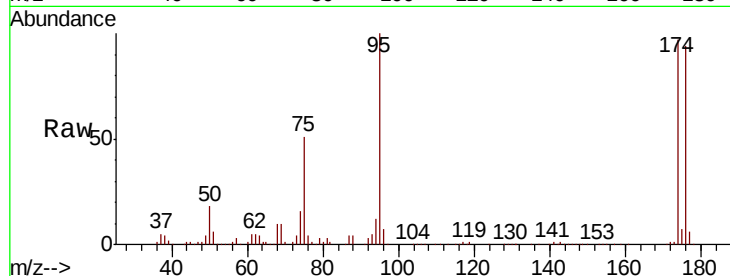
Tot Ion: 95 Resp: 127964

Ion Ratio Lower Upper

95 100

174 94.7 0.0 184.4

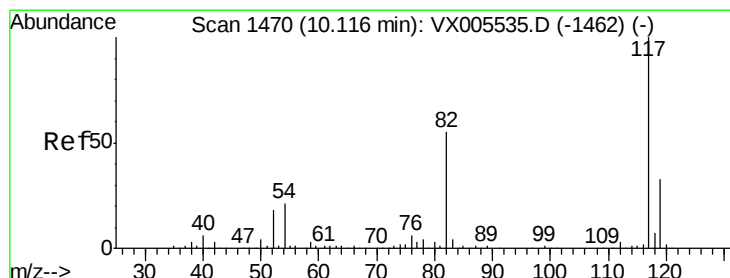
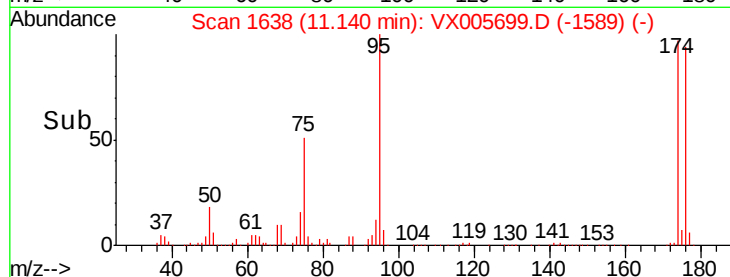
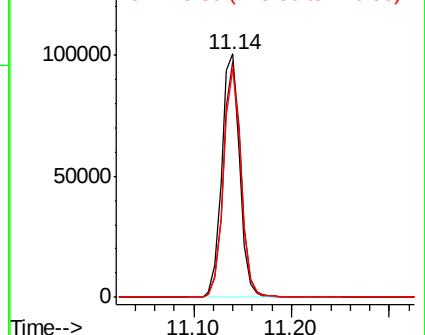
176 91.5 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VX005535.D (-1631) (-)

Ion 173.80 (173.50 to 174.50): VX005535.D (-1631) (-)

Ion 175.80 (175.50 to 176.50): VX005535.D (-1631) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1470

Delta R.T. -0.00 min

Lab File: VX005699.D

Acq: 30 Oct 2018 18:34

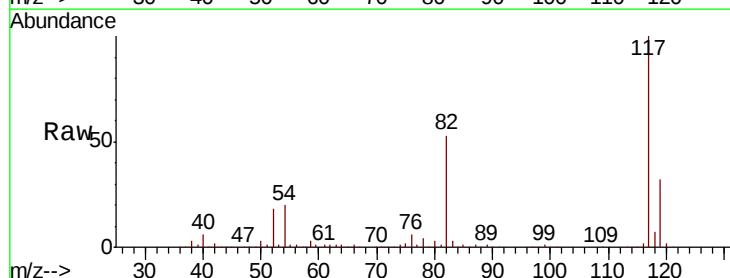
Tgt Ion: 117 Resp: 289845

Ion Ratio Lower Upper

117 100

82 53.3 44.1 66.1

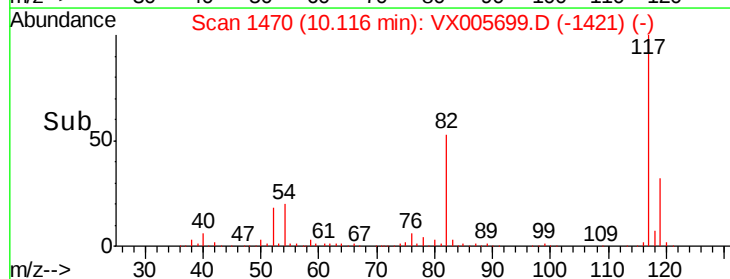
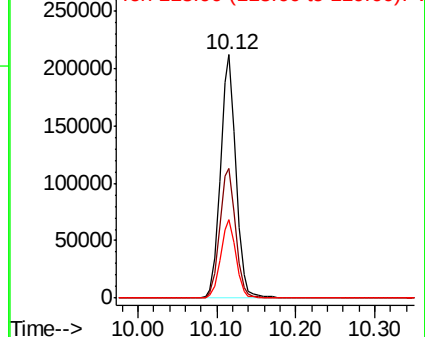
119 32.2 26.2 39.2

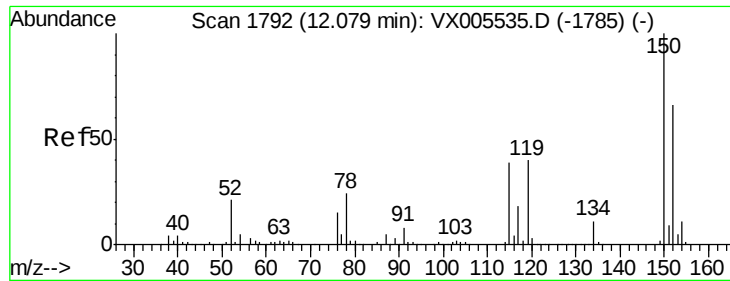


Abundance Ion 116.90 (116.60 to 117.60): VX005535.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX005535.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX005535.D (-1462) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX005699.D

Acq: 30 Oct 2018 18:34

Instrument :

MSVOA\_X

ClientSampleId :

FT-PZ458I-20181025

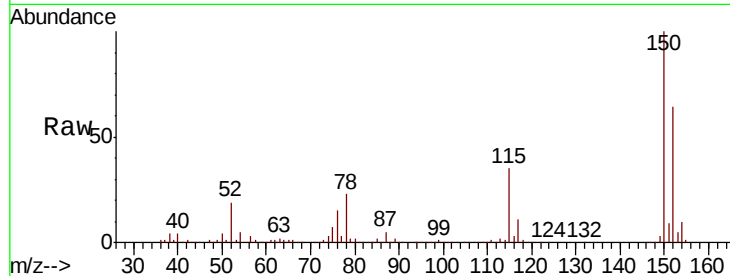
Tot Ion:152 Resp: 141912

Ion Ratio Lower Upper

152 100

115 54.9 39.4 118.1

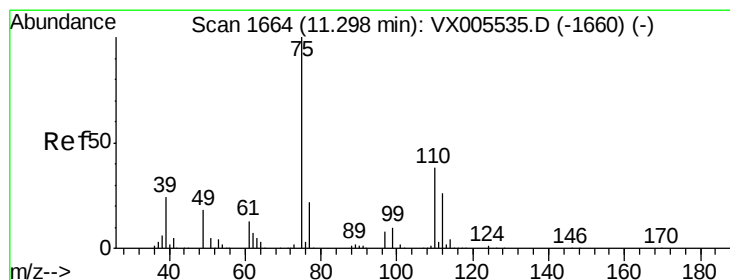
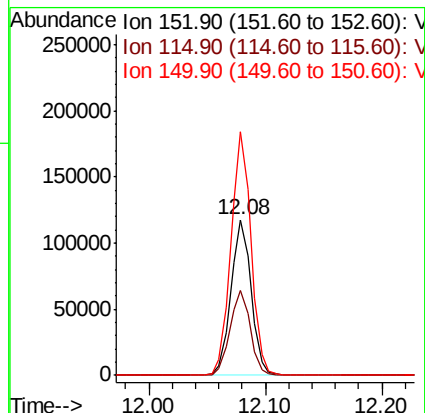
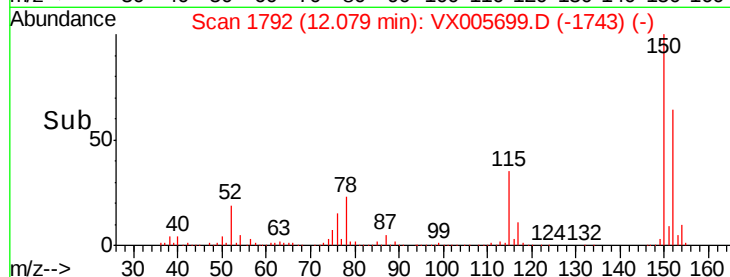
150 155.3 0.0 346.4



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: 21.473 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005699.D

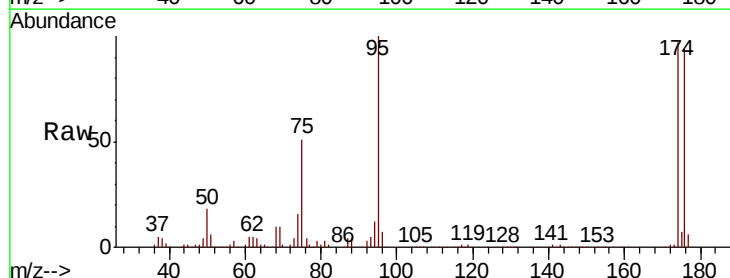
Acq: 30 Oct 2018 18:34

Tgt Ion: 75 Resp: 64564

Ion Ratio Lower Upper

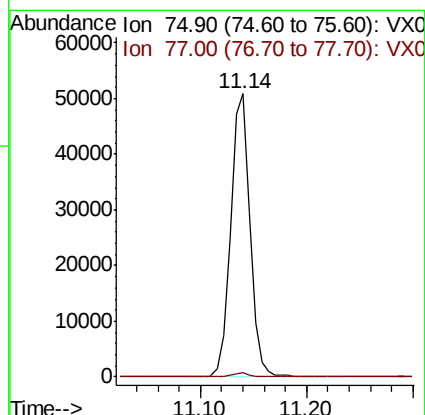
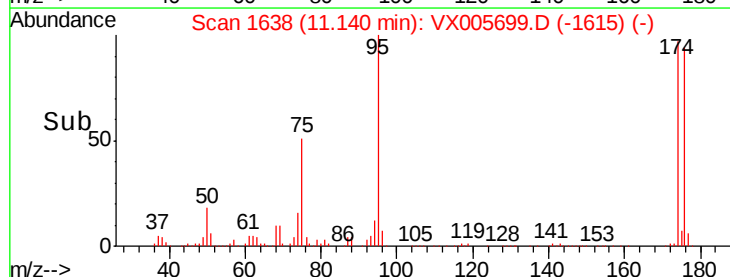
75 100

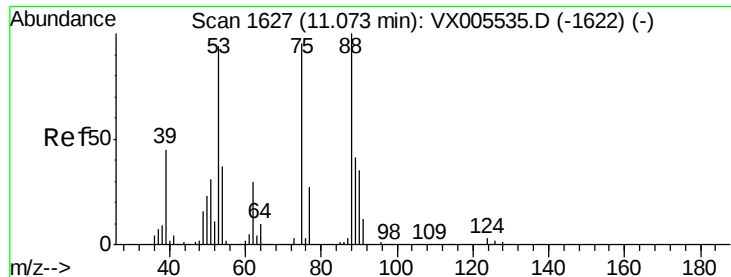
77 1.4 20.5 61.6#



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: 70.163 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005699.D

Acq: 30 Oct 2018 18:34

Instrument :

MSVOA\_X

ClientSampleId :

FT-PZ458I-20181025

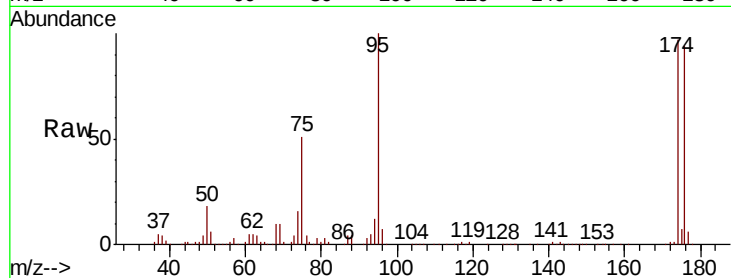
Tot Ion: 75 Resp: 64564

Ion Ratio Lower Upper

75 100

53 0.2 80.2 120.2#

89 0.0 39.8 59.8#



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

