

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080118\  
 Data File : VX003793.D  
 Acq On : 01 Aug 2018 14:50  
 Operator : JC/SP  
 Sample : VX0801SBL01  
 Misc : 5.00G/5.0mL/MSVOA X/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Aug 02 05:53:40 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X073018S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 31 11:17:41 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 99494    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 134378   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 121373   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 65646    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 45367    | 45.09 | ug/l    | -0.01    |
| Spiked Amount               |       |      | Recovery | =     | 90.18%  |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 39850    | 50.36 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.72% |          |
| 50) Toluene-d8              | 8.71  | 98   | 165853   | 50.27 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.54% |          |
| 62) 4-Bromofluorobenzene    | 11.14 | 95   | 57043    | 46.90 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.80%  |          |

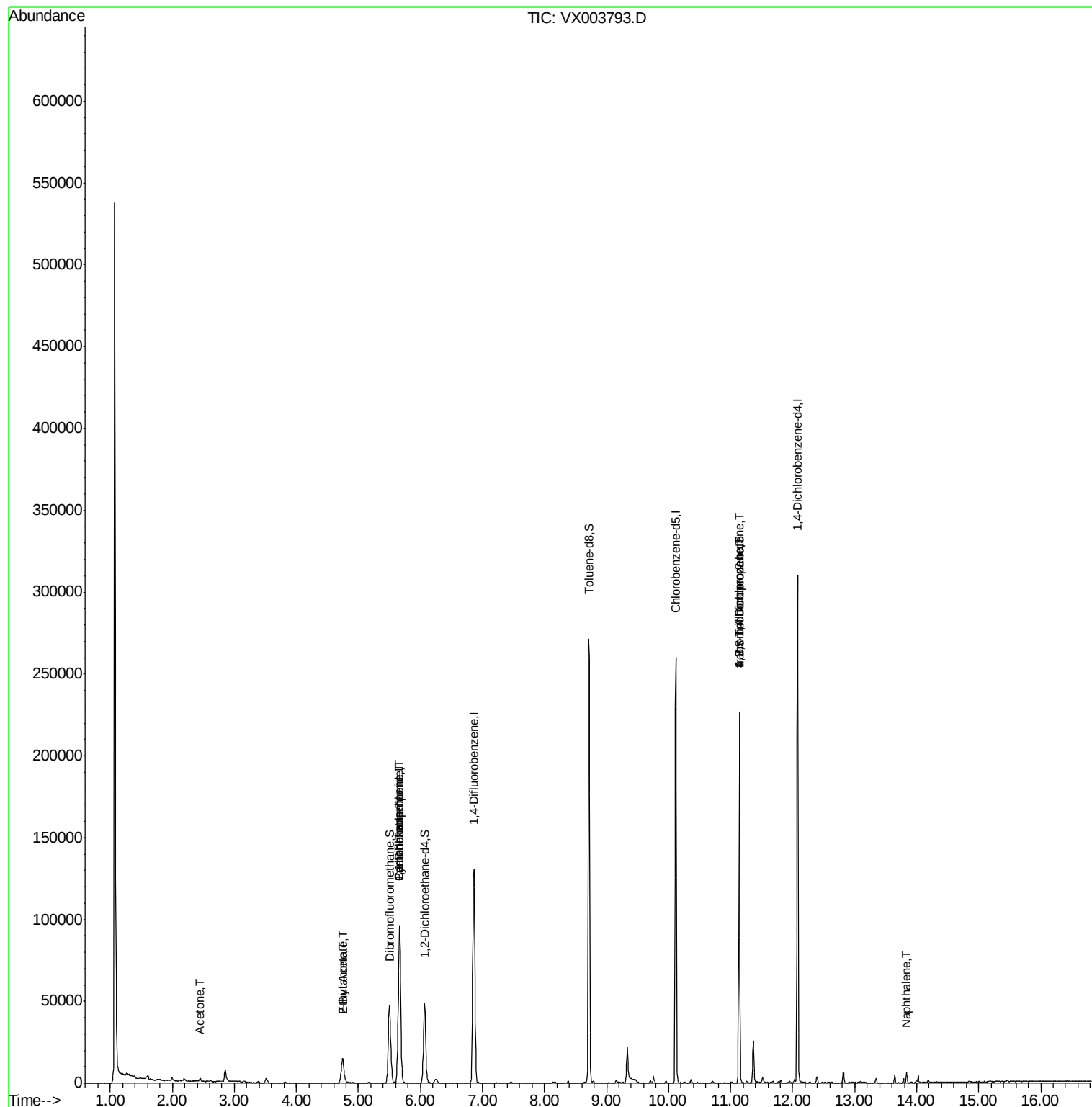
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 5) Bromomethane                | 1.64  | 94   | 199      | Below Cal | #     | 73     |
| 16) Acetone                    | 2.44  | 43   | 1593     | 4.14      | ug/l  | 91     |
| 25) 2-Butanone                 | 4.74  | 43   | 1046     | 1.87      | ug/l  | # 49   |
| 31) Cyclohexane                | 5.66  | 56   | 1609     | 1.00      | ug/l  | # 1    |
| 36) 1,1-Dichloropropene        | 5.66  | 75   | 6273     | 4.98      | ug/l  | # 48   |
| 37) Ethyl Acetate              | 4.74  | 43   | 1046     | 1.08      | ug/l  | # 7    |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 8458     | 7.27      | ug/l  | # 16   |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 27362    | 30.24     | ug/l  | # 35   |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 27362    | 89.57     | ug/l  | # 11   |
| 95) Naphthalene                | 13.83 | 128  | 4291     | 1.25      | ug/l  | 99     |

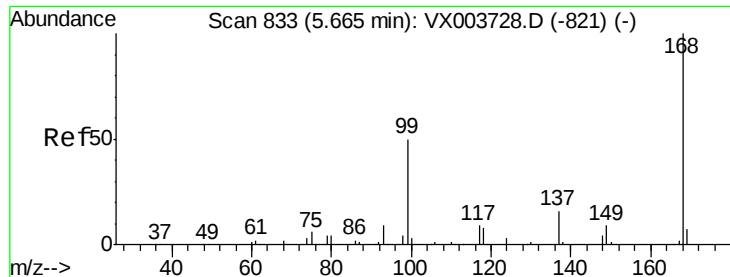
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX080118\  
Data File : VX003793.D  
Acq On : 01 Aug 2018 14:50  
Operator : JC/SP  
Sample : VX0801SBL01  
Misc : 5.00G/5.0mL/MSVOA X/SOIL  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Aug 02 05:53:40 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X073018S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 31 11:17:41 2018  
Response via : Initial Calibration

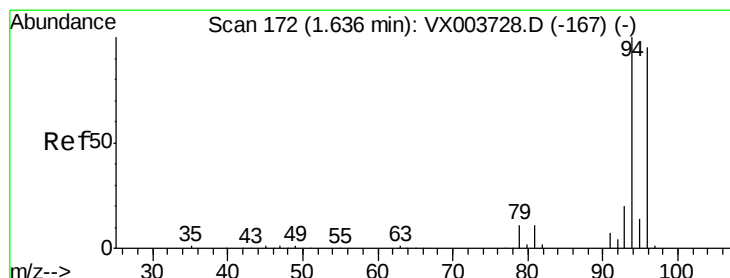
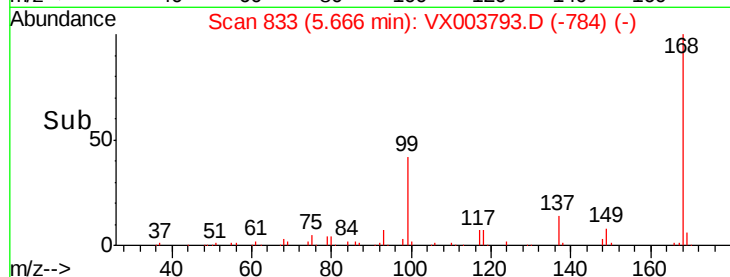
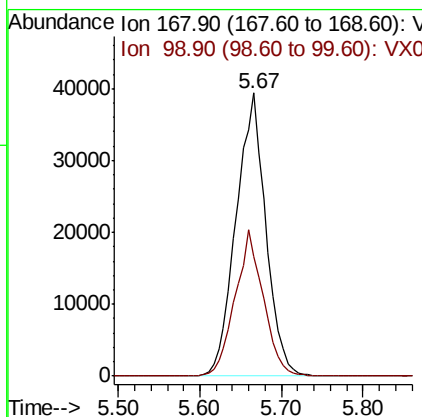
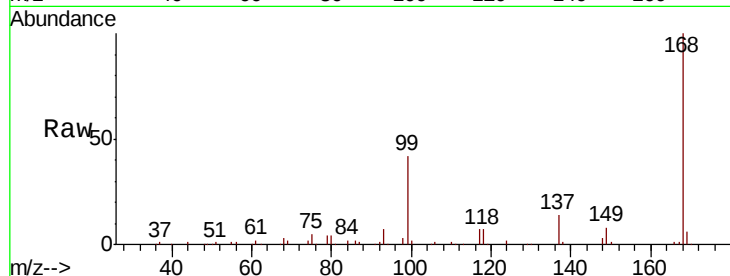




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 5.67 min Scan# 833  
Delta R.T. 0.00 min  
Lab File: VX003793.D  
Acq: 01 Aug 2018 14:50

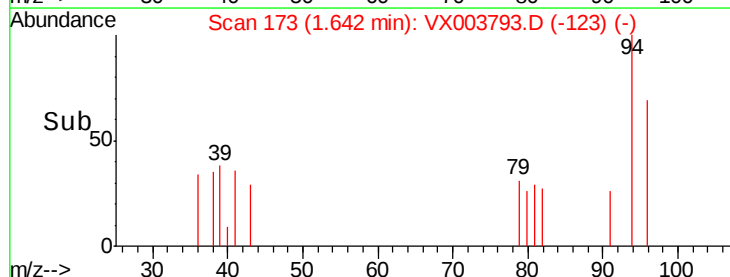
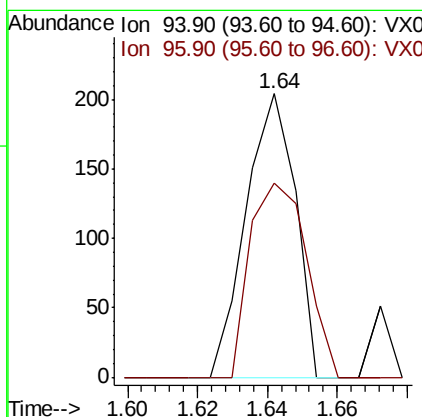
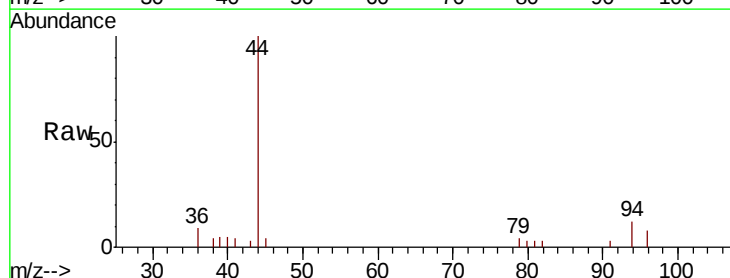
Instrument :  
MSVOA\_X  
ClientSampleId :

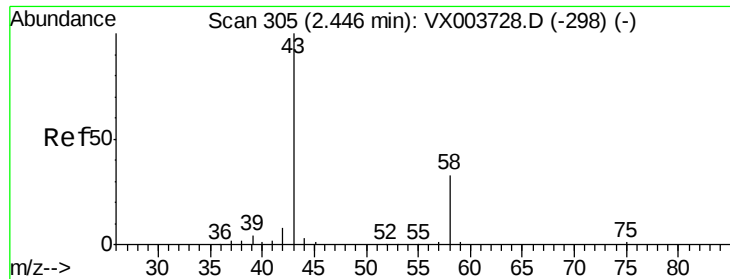
Tot Ion:168 Resp: 99494  
Ion Ratio Lower Upper  
168 100  
99 42.1 40.2 60.2



#5  
Bromomethane  
Concen: Below Cal  
RT: 1.64 min Scan# 173  
Delta R.T. 0.01 min  
Lab File: VX003793.D  
Acq: 01 Aug 2018 14:50

Tgt Ion: 94 Resp: 199  
Ion Ratio Lower Upper  
94 100  
96 68.6 76.0 114.0#





#16

Acetone

Concen: 4.14 ug/l

RT: 2.44 min Scan# 304

Delta R.T. -0.01 min

Lab File: VX003793.D

Acq: 01 Aug 2018 14:50

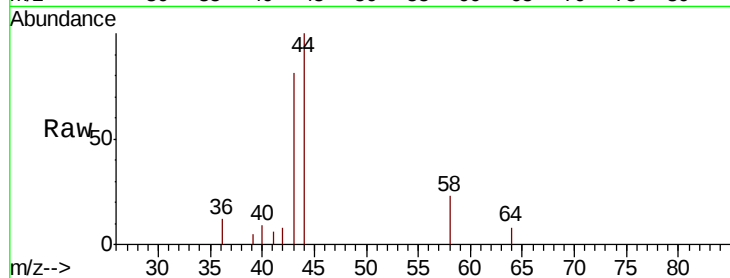
Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion: 43 Resp: 1593

Ion Ratio Lower Upper

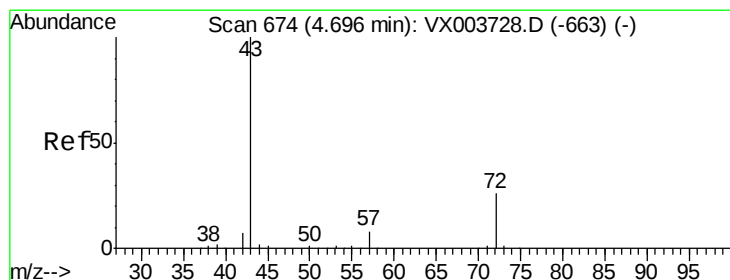
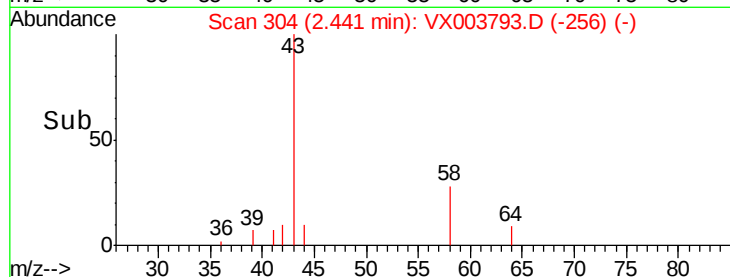
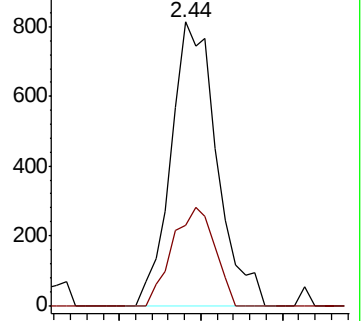
43 100

58 28.0 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#25

2-Butanone

Concen: 1.87 ug/l

RT: 4.74 min Scan# 681

Delta R.T. 0.04 min

Lab File: VX003793.D

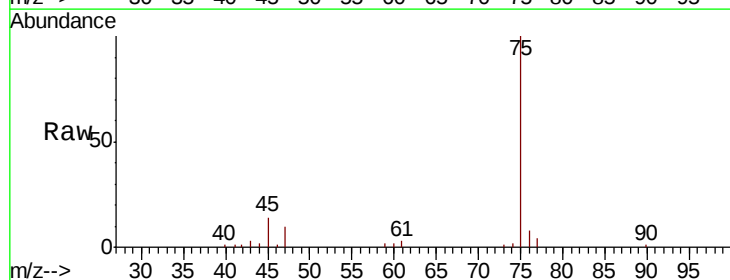
Acq: 01 Aug 2018 14:50

Tgt Ion: 43 Resp: 1046

Ion Ratio Lower Upper

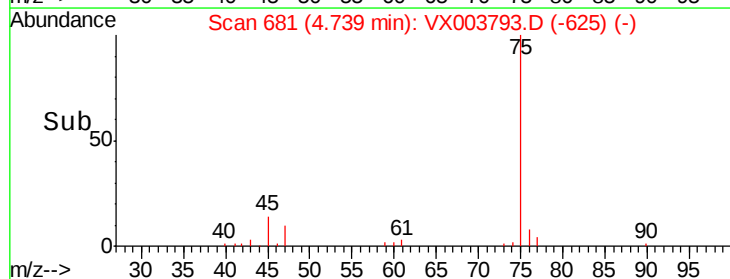
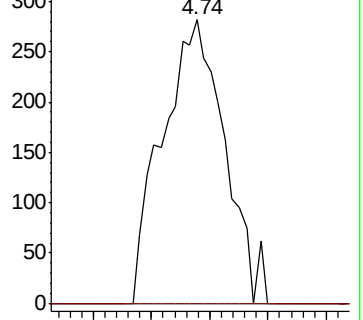
43 100

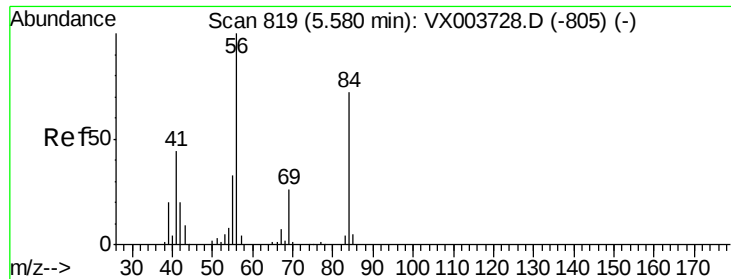
72 0.0 20.9 31.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

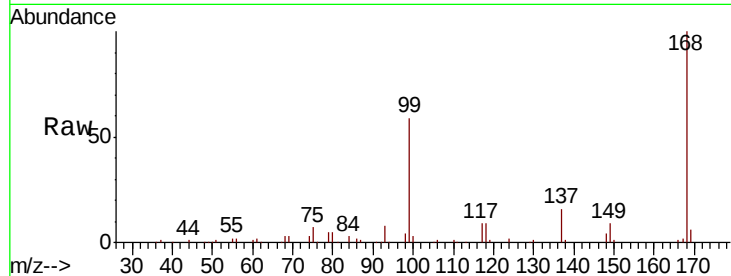




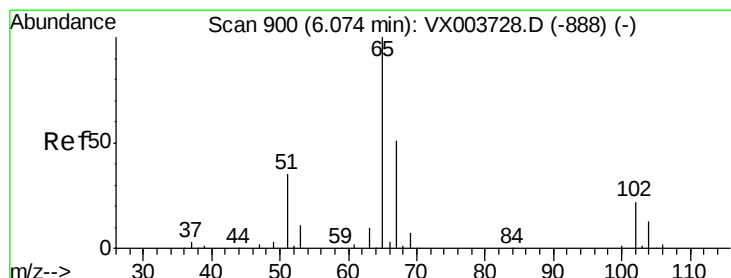
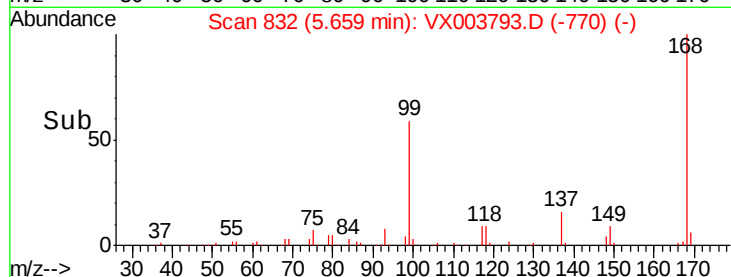
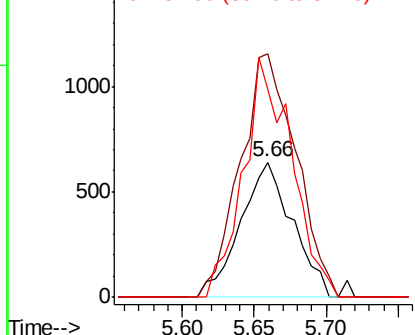
#31  
Cyclohexane  
Concen: 1.00 ug/l  
RT: 5.66 min Scan# 832  
Delta R.T. 0.08 min  
Lab File: VX003793.D  
Acq: 01 Aug 2018 14:50

Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion: 56 Resp: 1609  
Ion Ratio Lower Upper  
56 100  
69 180.2 20.6 30.8#  
84 154.1 57.9 86.9#

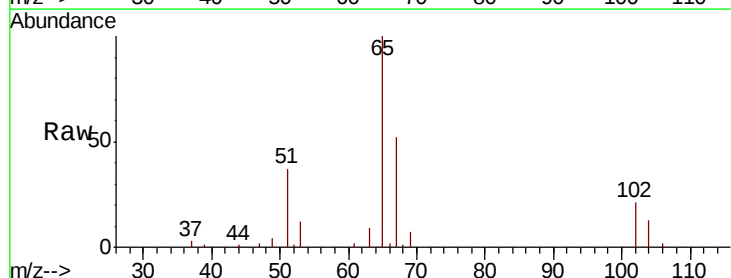


Abundance Ion 56.00 (55.70 to 56.70): VX0  
Ion 69.00 (68.70 to 69.70): VX0  
Ion 84.00 (83.70 to 84.70): VX0

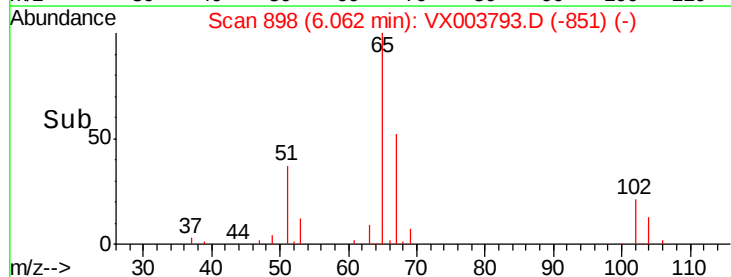
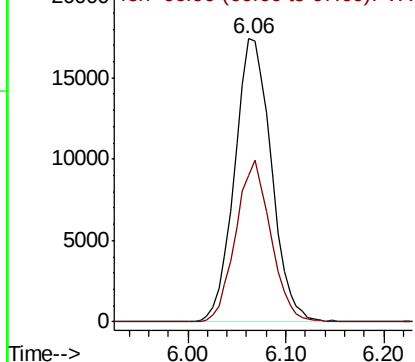


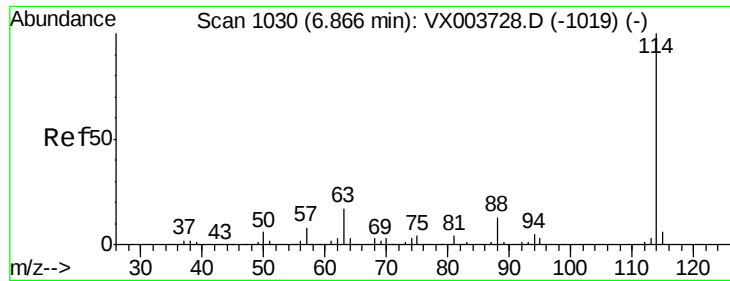
#33  
1,2-Dichloroethane-d4  
Concen: 45.09 ug/l  
RT: 6.06 min Scan# 898  
Delta R.T. -0.01 min  
Lab File: VX003793.D  
Acq: 01 Aug 2018 14:50

Tgt Ion: 65 Resp: 45367  
Ion Ratio Lower Upper  
65 100  
67 54.4 0.0 107.0



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





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.86 min Scan# 1029

Delta R.T. -0.01 min

Lab File: VX003793.D

Acq: 01 Aug 2018 14:50

Instrument :

MSVOA\_X

ClientSampleId :

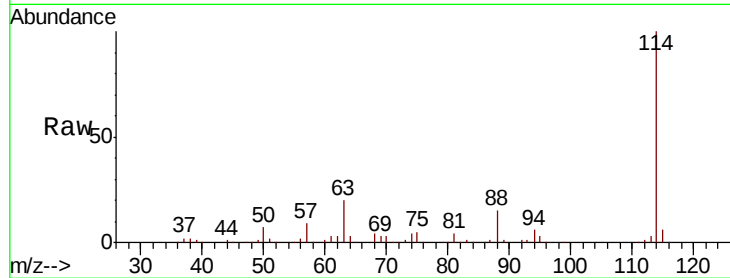
Tot Ion:114 Resp: 134378

Ion Ratio Lower Upper

114 100

63 19.8 0.0 34.0

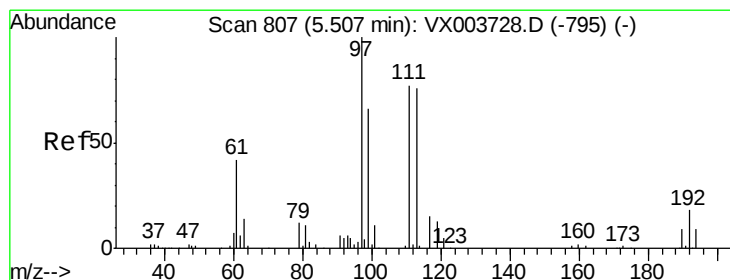
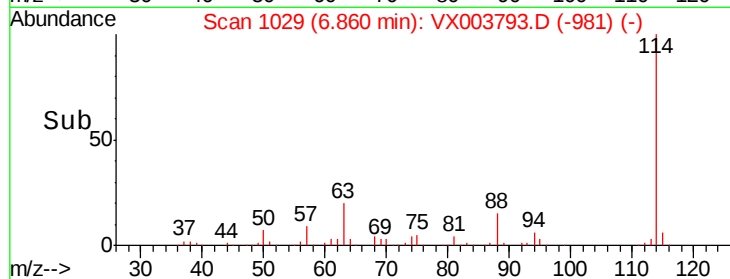
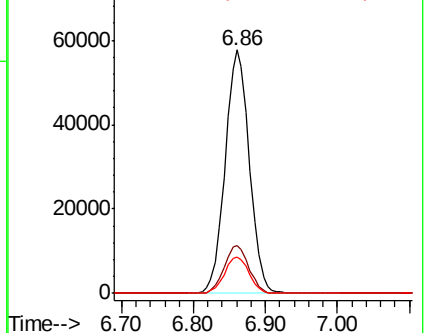
88 15.0 0.0 26.4



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: 50.36 ug/l

RT: 5.50 min Scan# 806

Delta R.T. -0.01 min

Lab File: VX003793.D

Acq: 01 Aug 2018 14:50

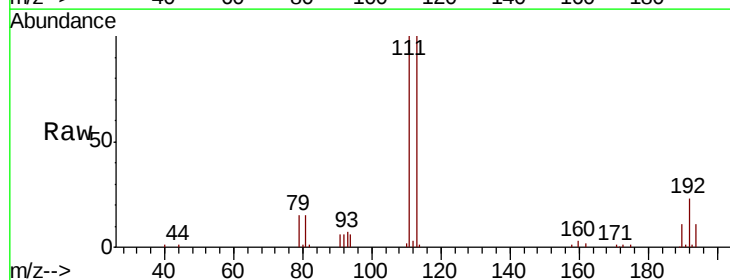
Tgt Ion:113 Resp: 39850

Ion Ratio Lower Upper

113 100

111 104.0 81.8 122.6

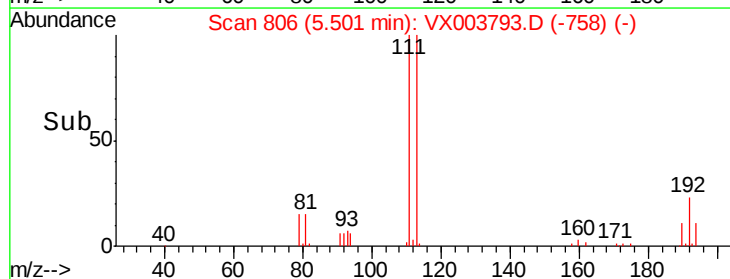
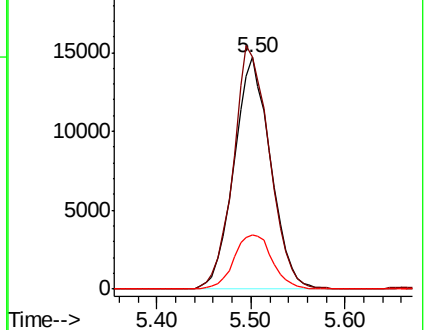
192 24.6 18.8 28.2

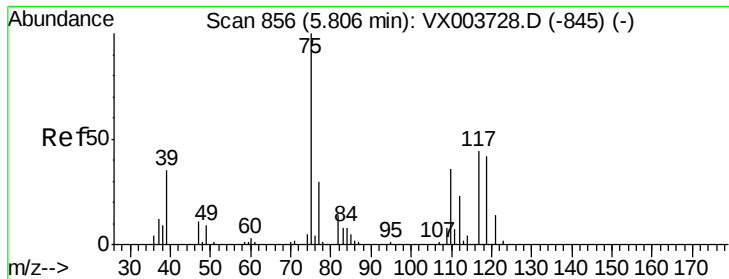


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

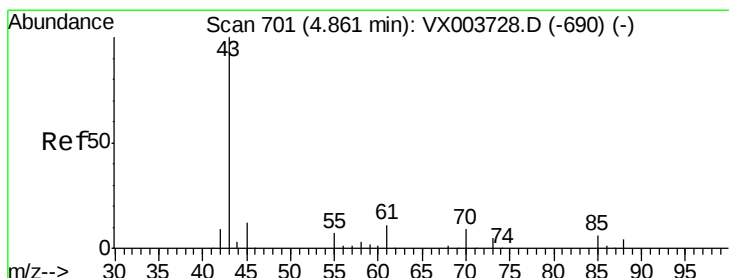
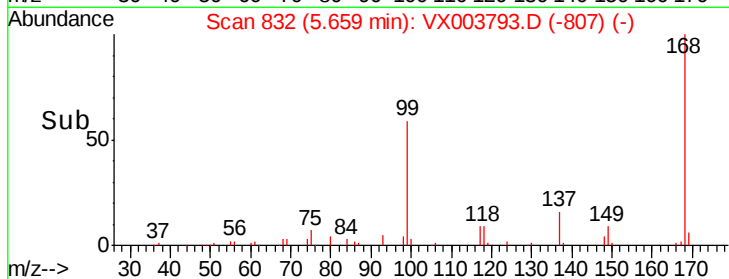
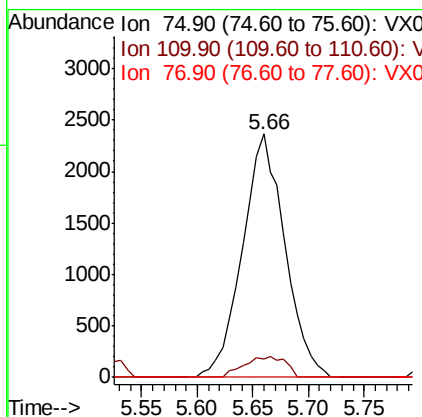
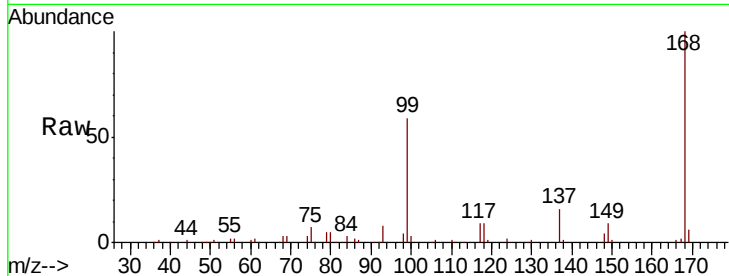




#36  
 1,1-Dichloropropene  
 Concen: 4.98 ug/l  
 RT: 5.66 min Scan# 832  
 Delta R.T. -0.15 min  
 Lab File: VX003793.D  
 Acq: 01 Aug 2018 14:50

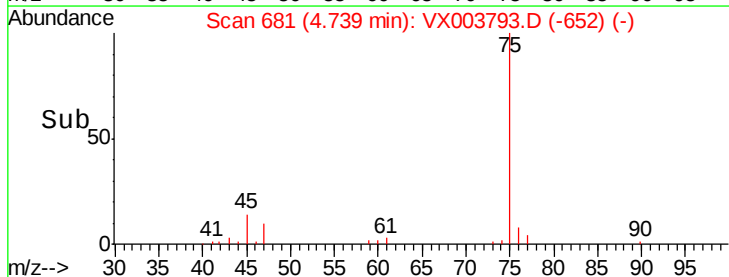
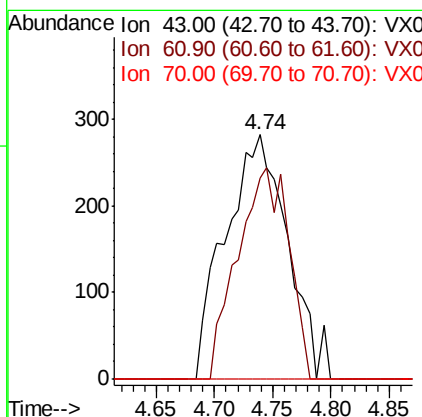
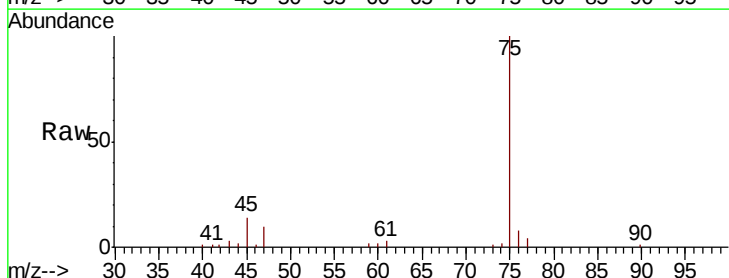
Instrument :  
 MSVOA\_X  
 ClientSampled :

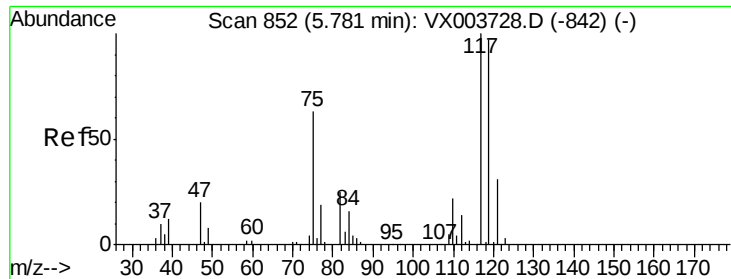
Tot Ion: 75 Resp: 6273  
 Ion Ratio Lower Upper  
 75 100  
 110 8.3 18.3 54.8#  
 77 0.0 25.1 37.7#



#37  
 Ethyl Acetate  
 Concen: 1.08 ug/l  
 RT: 4.74 min Scan# 681  
 Delta R.T. -0.12 min  
 Lab File: VX003793.D  
 Acq: 01 Aug 2018 14:50

Tgt Ion: 43 Resp: 1046  
 Ion Ratio Lower Upper  
 43 100  
 61 71.3 11.4 17.0#  
 70 0.0 8.2 12.2#

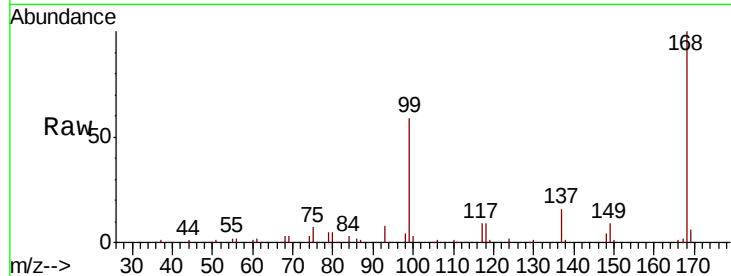




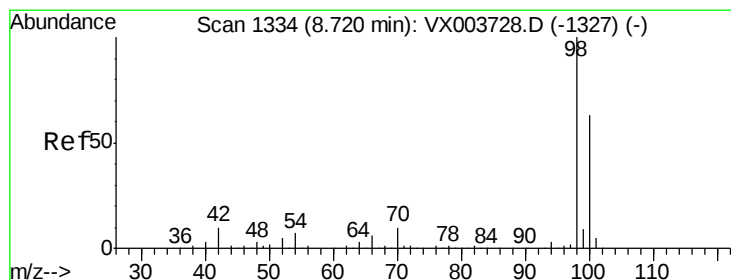
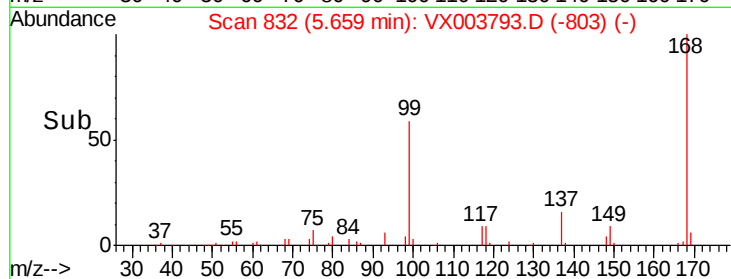
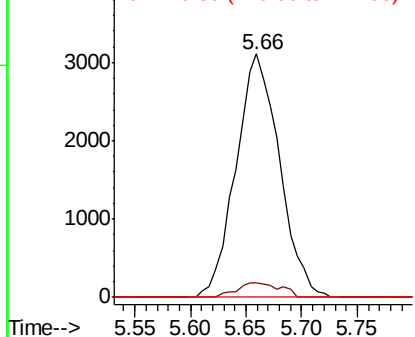
#38  
Carbon Tetrachloride  
Concen: 7.27 ug/l  
RT: 5.66 min Scan# 832  
Delta R.T. -0.12 min  
Lab File: VX003793.D  
Acq: 01 Aug 2018 14:50

Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion:117 Resp: 8458  
Ion Ratio Lower Upper  
117 100  
119 5.9 77.2 115.8#  
121 0.0 25.0 37.4#

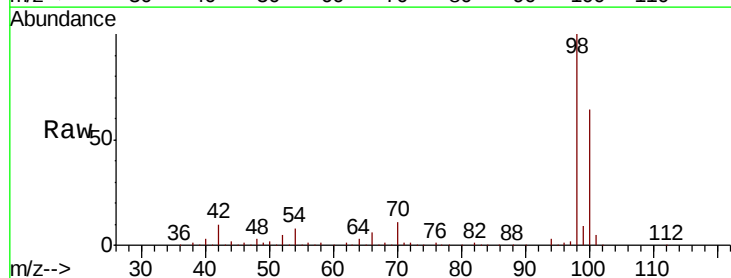


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

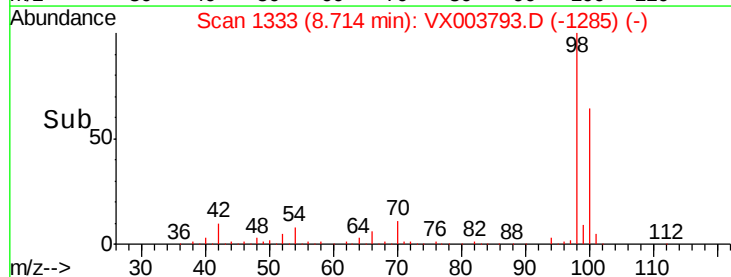
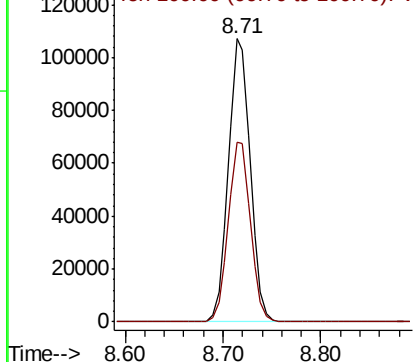


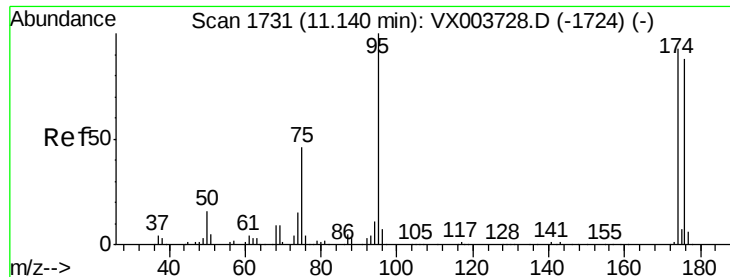
#50  
Toluene-d8  
Concen: 50.27 ug/l  
RT: 8.71 min Scan# 1333  
Delta R.T. -0.01 min  
Lab File: VX003793.D  
Acq: 01 Aug 2018 14:50

Tgt Ion: 98 Resp: 165853  
Ion Ratio Lower Upper  
98 100  
100 64.3 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VX0  
Ion 100.00 (99.70 to 100.70): V

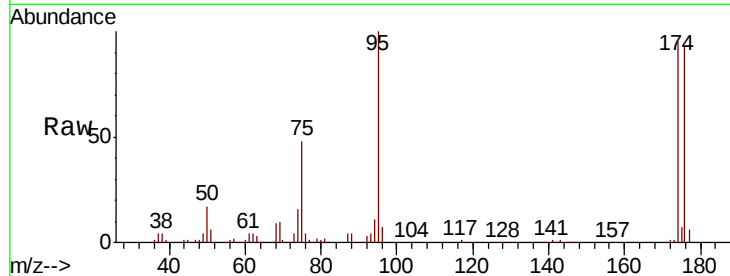




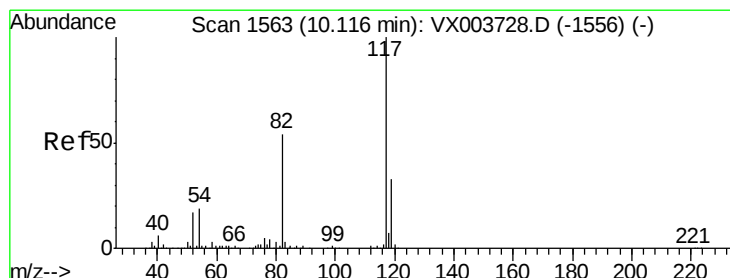
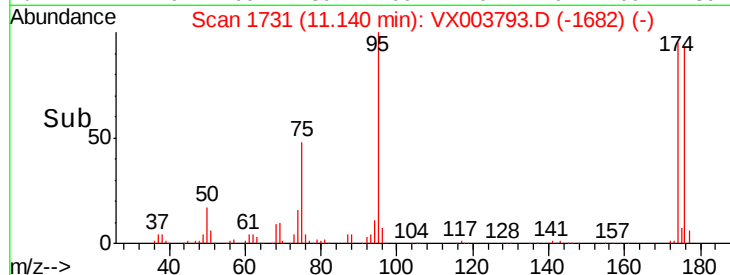
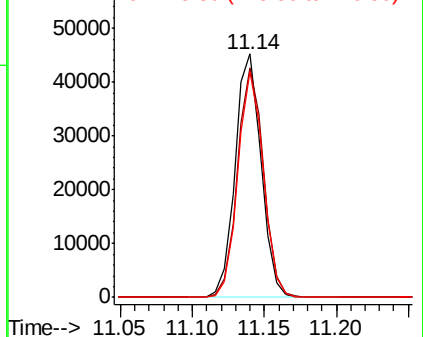
#62  
4-Bromofluorobenzene  
Concen: 46.90 ug/l  
RT: 11.14 min Scan# 1731  
Delta R.T. 0.00 min  
Lab File: VX003793.D  
Acq: 01 Aug 2018 14:50

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion: 95 Resp: 57043  
Ion Ratio Lower Upper  
95 100  
174 94.0 0.0 186.2  
176 90.2 0.0 179.2

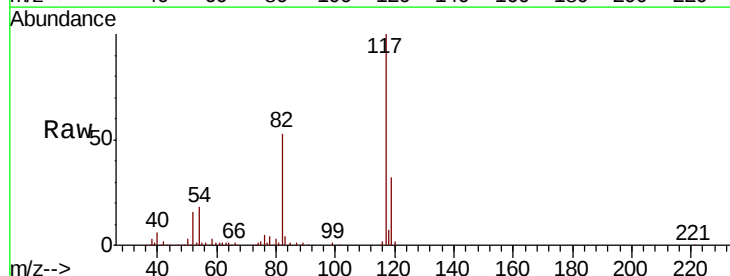


Abundance Ion 94.90 (94.60 to 95.60): VX0  
Ion 173.80 (173.50 to 174.50): V  
Ion 175.80 (175.50 to 176.50): V

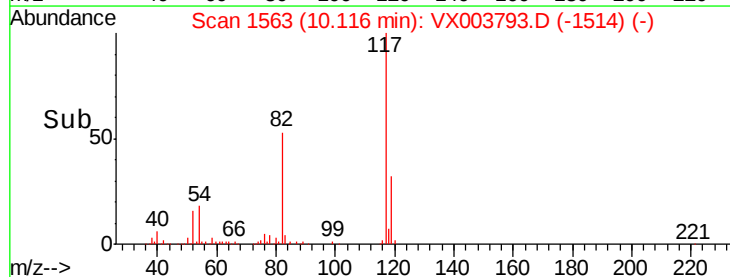
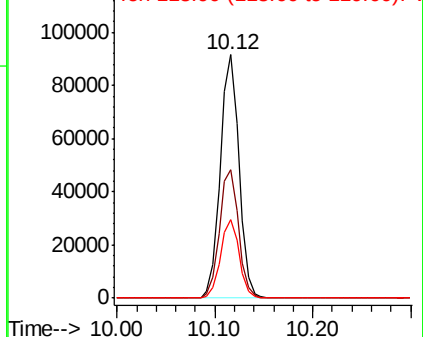


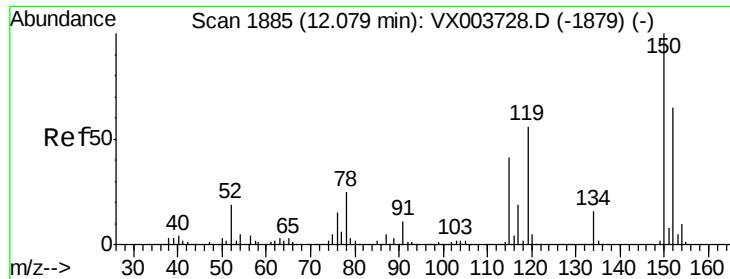
#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 10.12 min Scan# 1563  
Delta R.T. 0.00 min  
Lab File: VX003793.D  
Acq: 01 Aug 2018 14:50

Tgt Ion: 117 Resp: 121373  
Ion Ratio Lower Upper  
117 100  
82 52.9 43.2 64.8  
119 32.3 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: 50.00 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. 0.00 min

Lab File: VX003793.D

Acq: 01 Aug 2018 14:50

Instrument :

MSVOA\_X

ClientSampleId :

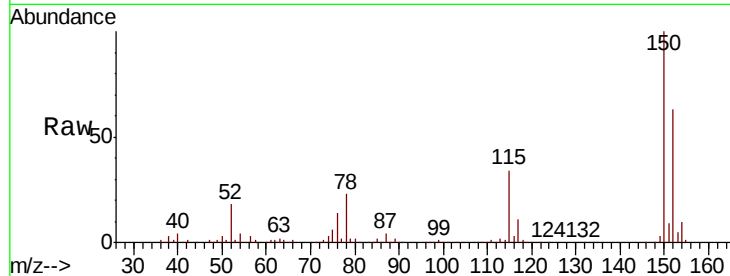
Tot Ion:152 Resp: 65646

Ion Ratio Lower Upper

152 100

115 54.0 38.5 115.3

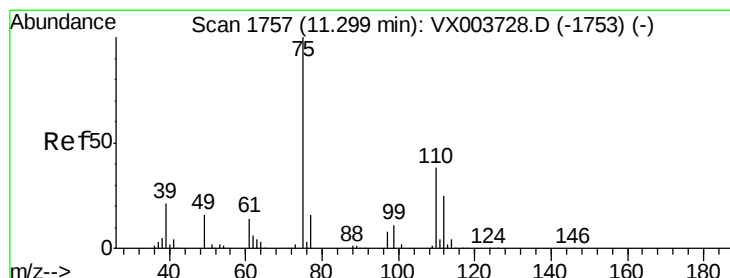
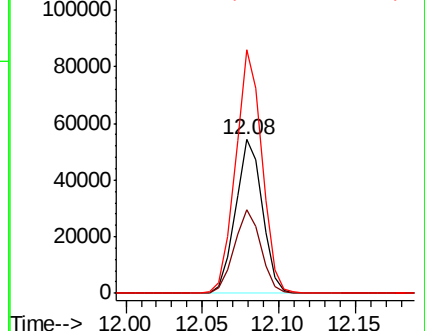
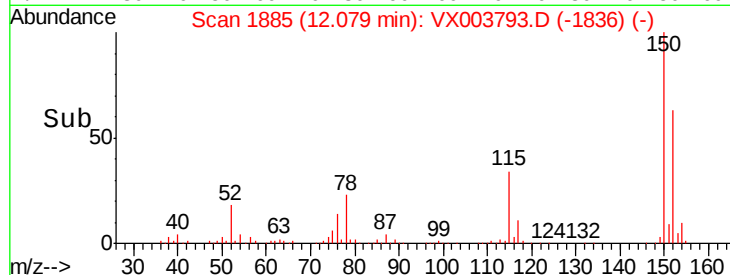
150 155.9 0.0 346.2



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: 30.24 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX003793.D

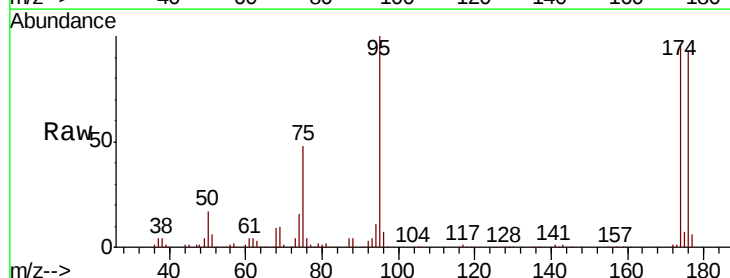
Acq: 01 Aug 2018 14:50

Tgt Ion: 75 Resp: 27362

Ion Ratio Lower Upper

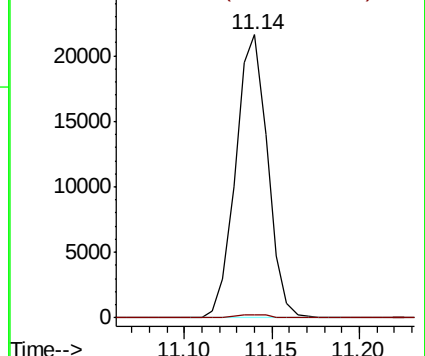
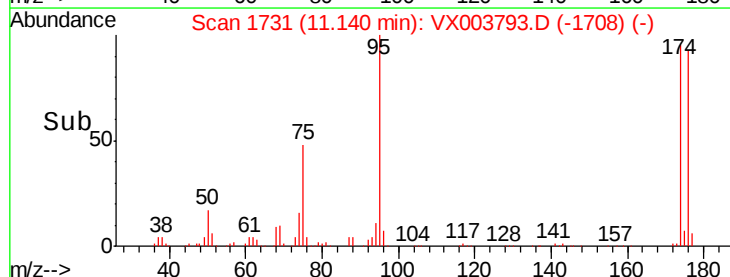
75 100

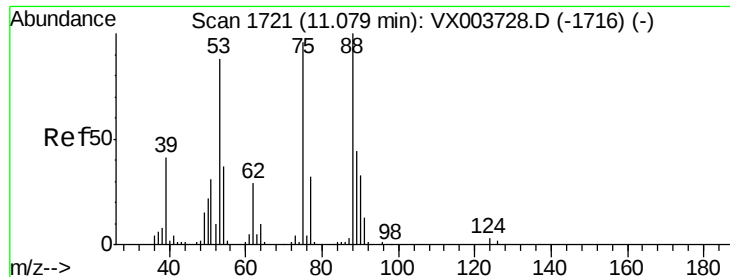
77 1.3 21.6 65.0#



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: 89.57 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX003793.D

Acq: 01 Aug 2018 14:50

Instrument :

MSVOA\_X

ClientSampleId :

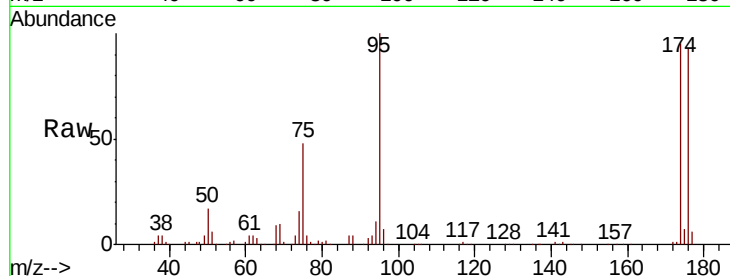
Tot Ion: 75 Resp: 27362

Ion Ratio Lower Upper

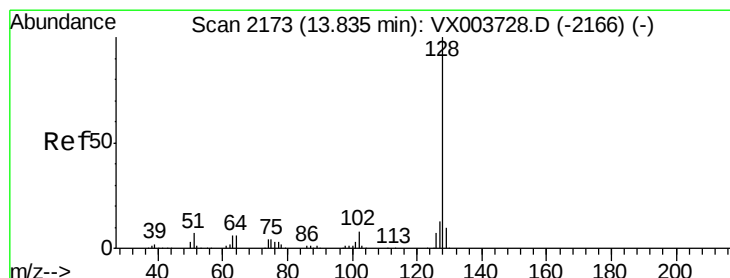
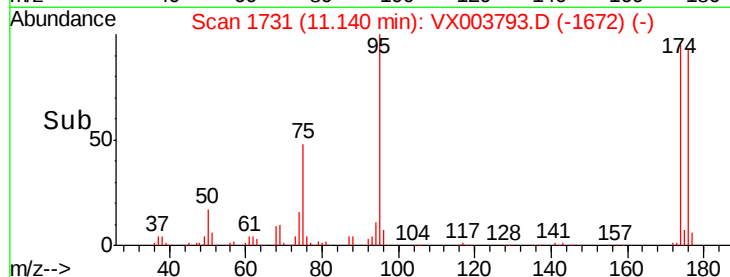
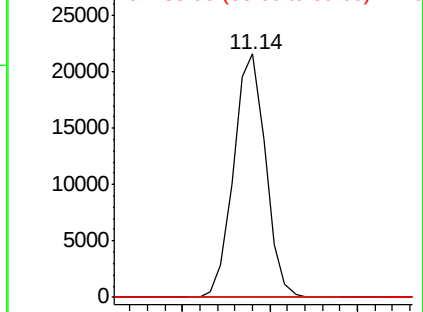
75 100

53 0.0 75.8 113.8#

89 0.0 39.1 58.7#



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



#95

Naphthalene

Concen: 1.25 ug/l

RT: 13.83 min Scan# 2173

Delta R.T. 0.00 min

Lab File: VX003793.D

Acq: 01 Aug 2018 14:50

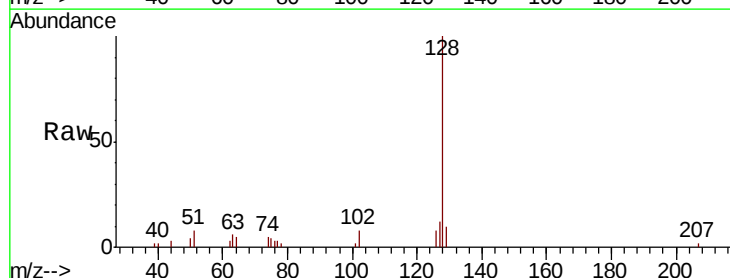
Tgt Ion:128 Resp: 4291

Ion Ratio Lower Upper

128 100

127 12.4 10.2 15.2

129 10.5 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V

