

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX030918\  
 Data File : VX000255.D  
 Acq On : 09 Mar 2018 15:08  
 Operator : JC/MD  
 Sample : J1839-03  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Mar 09 15:38:52 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X030718W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 08 02:15:47 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 90230    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 145089   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 136962   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 71807    | 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   | 51507    | 41.18 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 82.36% |          |
| 35) Dibromofluoromethane    | 5.51  | 113  | 37690    | 41.35 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 82.70% |          |
| 50) Toluene-d8              | 8.73  | 98   | 148598   | 39.37 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 78.74% |          |
| 62) 4-Bromofluorobenzene    | 11.15 | 95   | 53677    | 36.43 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 72.86% |          |

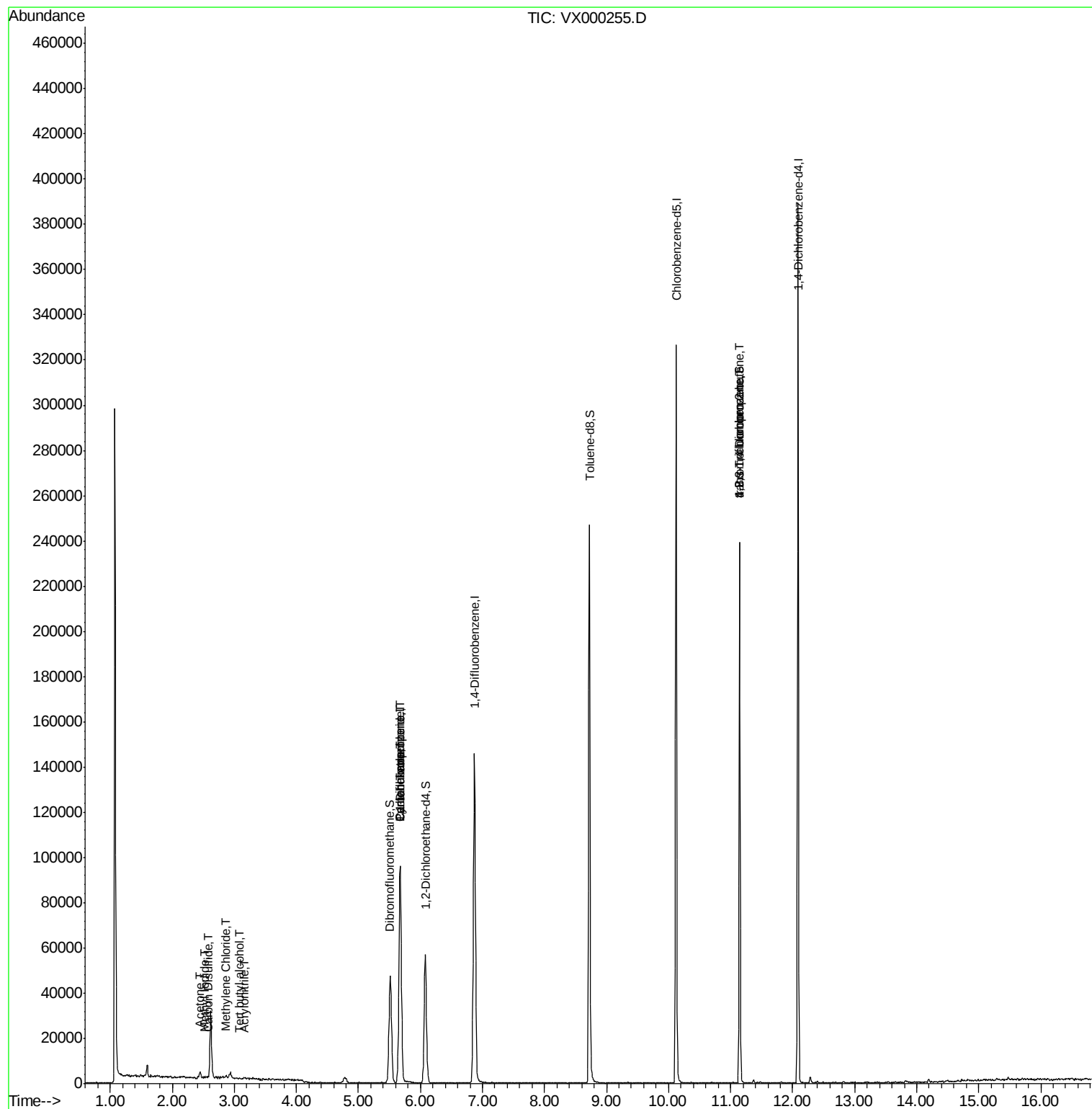
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.67  | 94   | 339      | Below Cal | #      | 55     |
| 6) Chloroethane                | 1.73  | 64   | 211      | Below Cal | #      | 42     |
| 10) Methyl Iodide              | 2.53  | 142  | 209      | 3.326     | ug/l # | 89     |
| 11) Tert butyl alcohol         | 3.07  | 59   | 227      | 0.494     | ug/l # | 72     |
| 15) Acrylonitrile              | 3.15  | 53   | 202      | 0.253     | ug/l # | 49     |
| 16) Acetone                    | 2.45  | 43   | 3165     | 3.523     | ug/l # | 79     |
| 17) Carbon Disulfide           | 2.58  | 76   | 546      | 0.209     | ug/l # | 71     |
| 20) Methylene Chloride         | 2.87  | 84   | 437      | 0.408     | ug/l # | 60     |
| 31) Cyclohexane                | 5.67  | 56   | 2372     | 1.733     | ug/l # | 44     |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 7619     | 5.902     | ug/l # | 41     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 9258     | 7.086     | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 11.15 | 75   | 31413    | 21.824    | ug/l # | 34     |
| 81) trans-1,4-Dichloro-2-buten | 11.15 | 75   | 31413    | 66.827    | ug/l # | 10     |

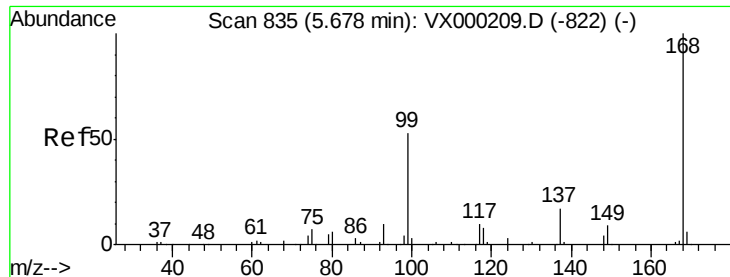
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Mar 09 15:38:52 2018  
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X030718W.M  
Quant Title : SW846 8260  
QLast Update : Thu Mar 08 02:15:47 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.01 min

Lab File: VX000255.D

Acq: 09 Mar 2018 15:08

Instrument :

MSVOA\_X

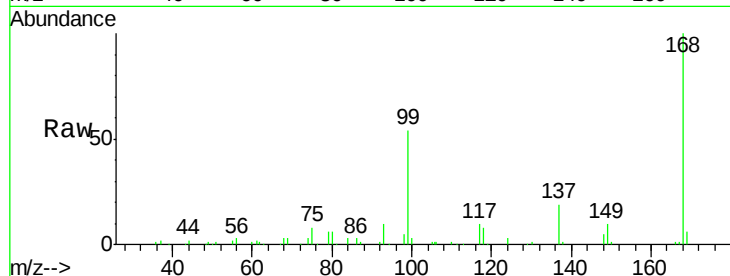
ClientSampleId :

Tot Ion:168 Resp: 90230

Ion Ratio Lower Upper

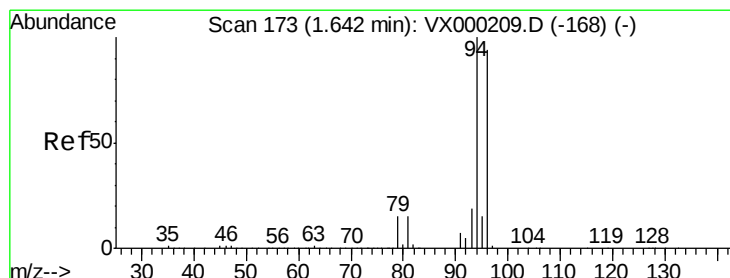
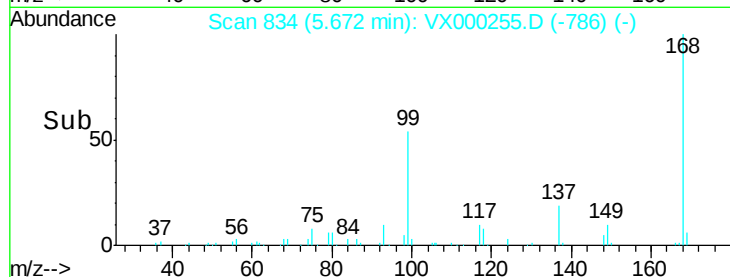
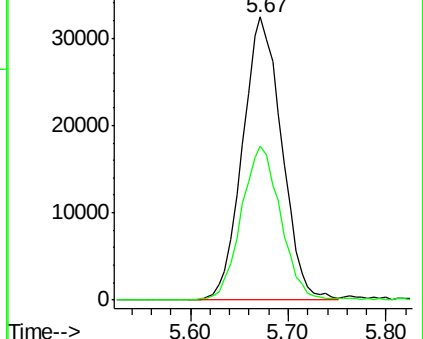
168 100

99 54.4 42.8 64.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.67 min Scan# 177

Delta R.T. 0.03 min

Lab File: VX000255.D

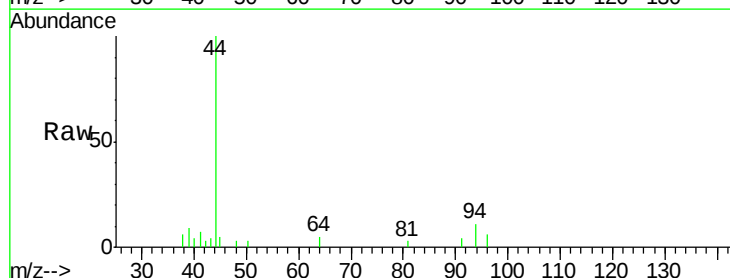
Acq: 09 Mar 2018 15:08

Tgt Ion: 94 Resp: 339

Ion Ratio Lower Upper

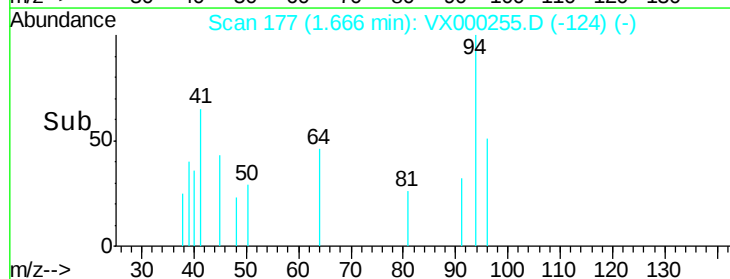
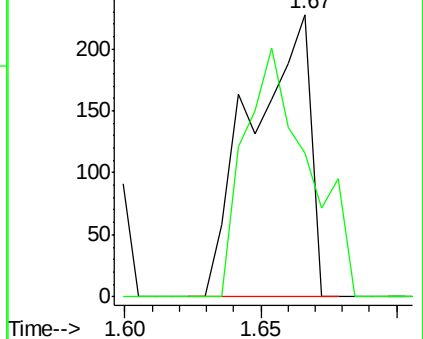
94 100

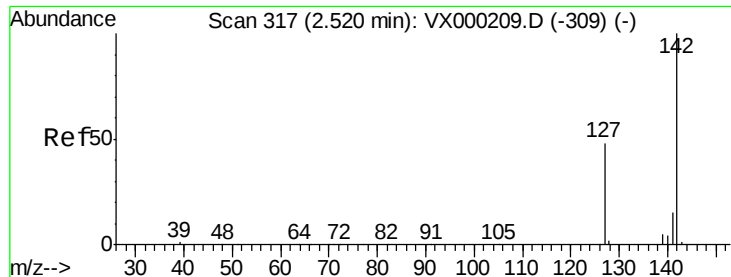
96 50.9 75.3 112.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

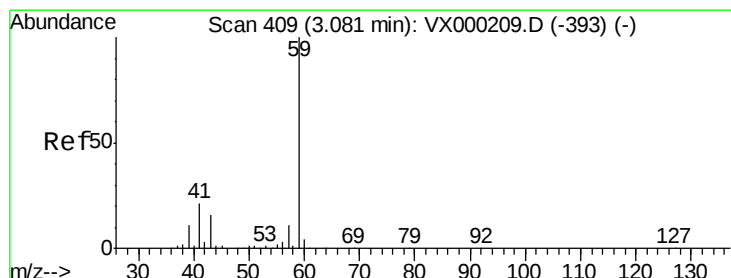
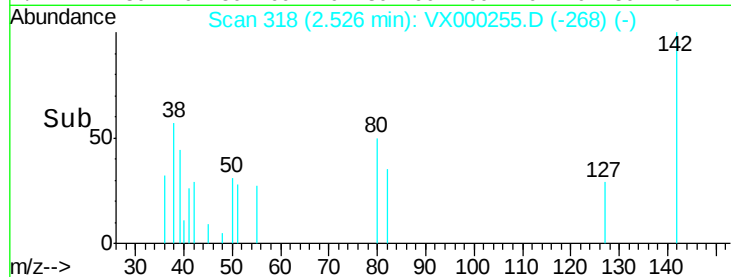
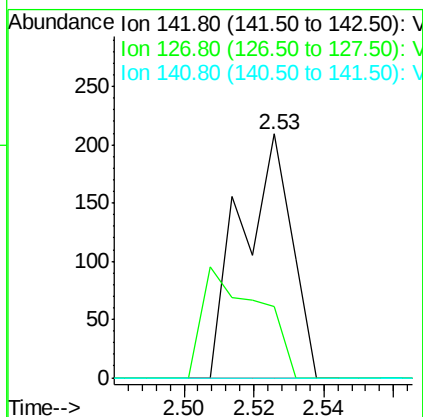
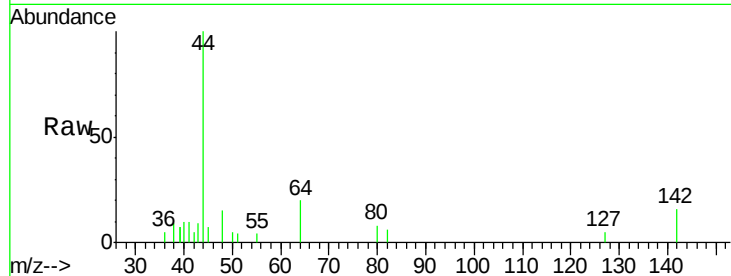




#10  
Methvl Iodide  
Concen: 3.326 ug/l  
RT: 2.53 min Scan# 318  
Delta R.T. 0.01 min  
Lab File: VX000255.D  
Acq: 09 Mar 2018 15:08

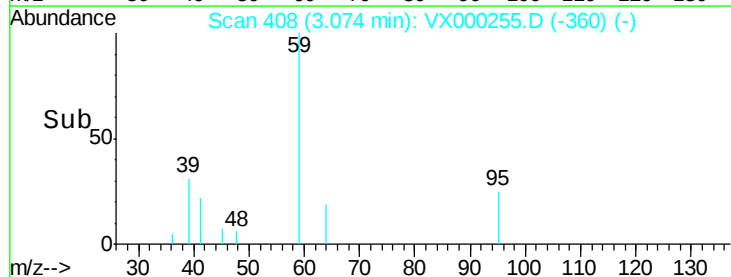
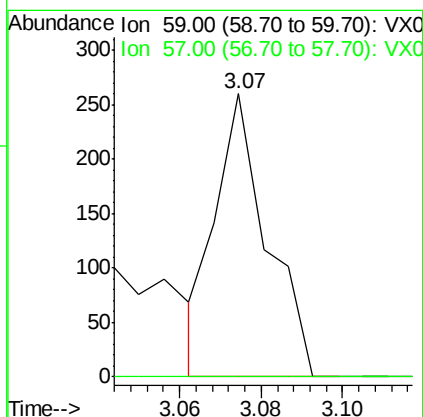
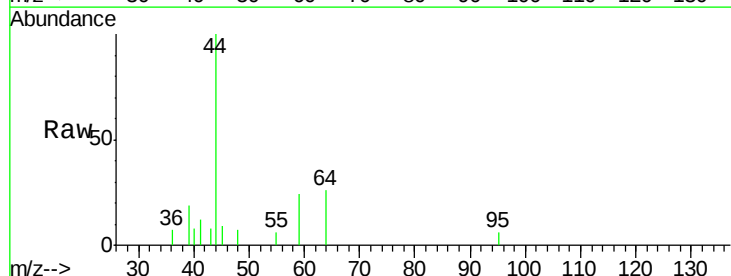
Instrument :  
MSVOA\_X  
ClientSampled :

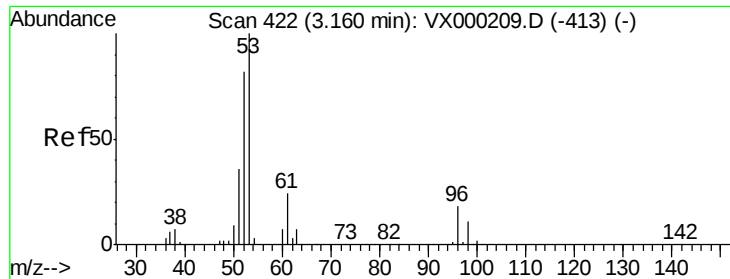
Tot Ion:142 Resp: 209  
Ion Ratio Lower Upper  
142 100  
127 51.2 39.0 58.6  
141 0.0 11.6 17.4#



#11  
Tert butyl alcohol  
Concen: 0.494 ug/l  
RT: 3.07 min Scan# 408  
Delta R.T. -0.01 min  
Lab File: VX000255.D  
Acq: 09 Mar 2018 15:08

Tgt Ion: 59 Resp: 227  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.4 12.6#





#15

Acrylonitrile

Concen: 0.253 ug/l

RT: 3.15 min Scan# 421

Delta R.T. -0.01 min

Lab File: VX000255.D

Acq: 09 Mar 2018 15:08

Instrument :

MSVOA\_X

ClientSampled :

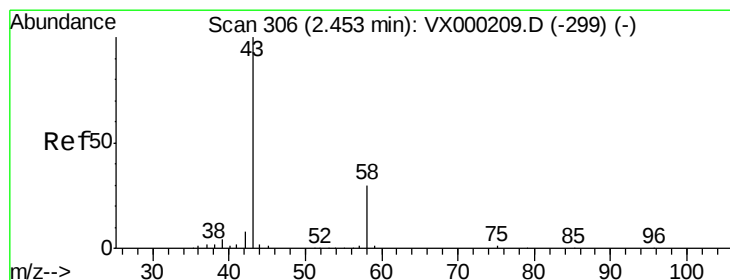
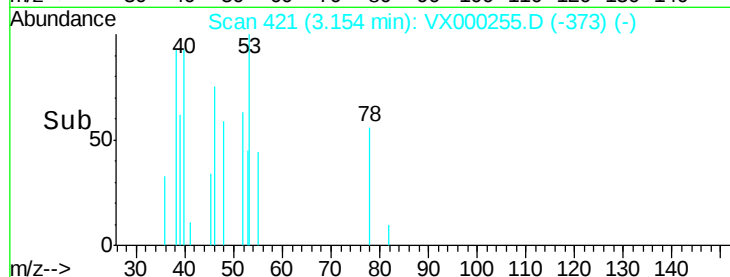
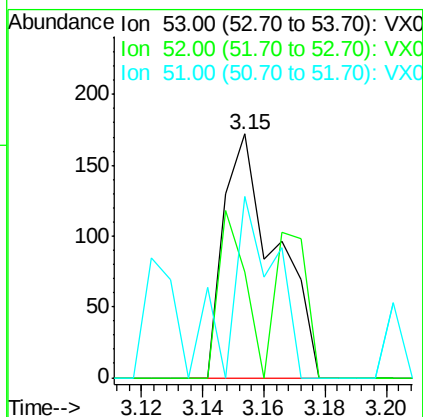
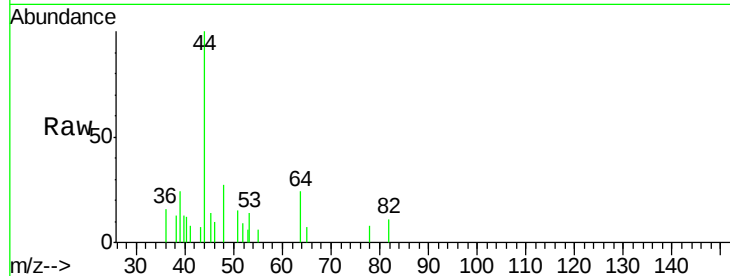
Tot Ion: 53 Resp: 202

Ion Ratio Lower Upper

53 100

52 35.1 66.3 99.5#

51 64.4 29.6 44.4#



#16

Acetone

Concen: 3.523 ug/l

RT: 2.45 min Scan# 305

Delta R.T. -0.01 min

Lab File: VX000255.D

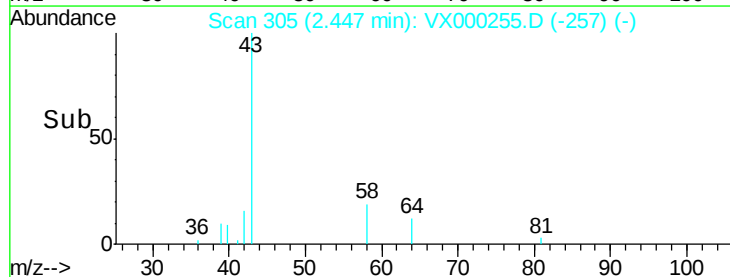
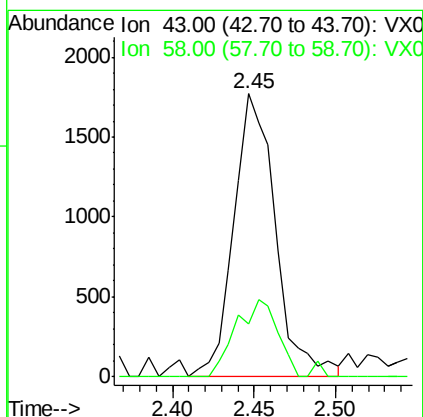
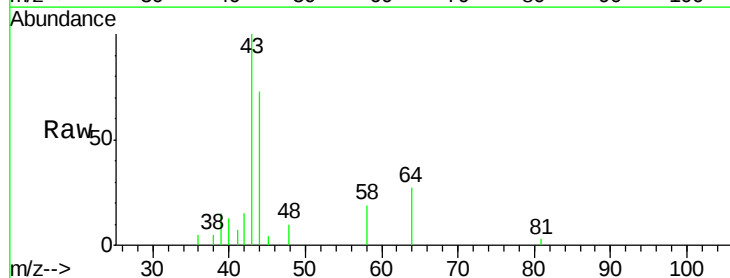
Acq: 09 Mar 2018 15:08

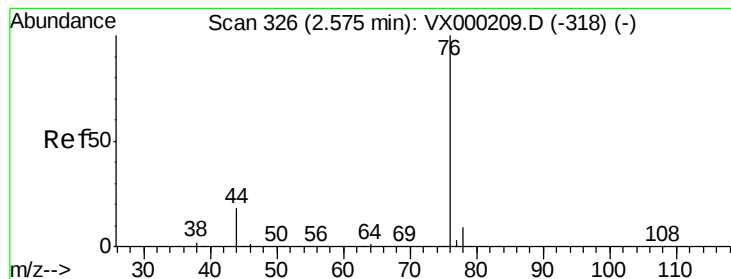
Tgt Ion: 43 Resp: 3165

Ion Ratio Lower Upper

43 100

58 18.6 23.8 35.6#





#17

Carbon Disulfide

Concen: 0.209 ug/l

RT: 2.58 min Scan# 327

Delta R.T. 0.01 min

Lab File: VX000255.D

Acq: 09 Mar 2018 15:08

Instrument :

MSVOA\_X

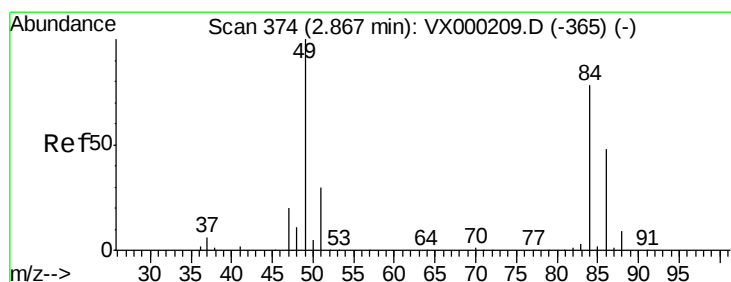
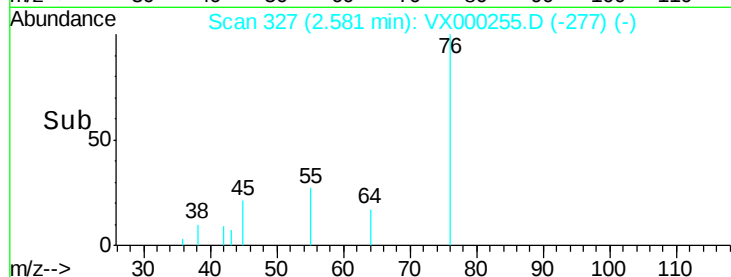
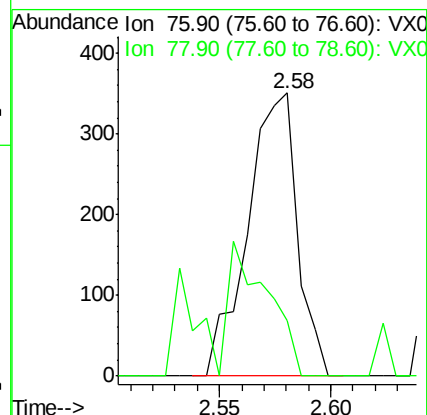
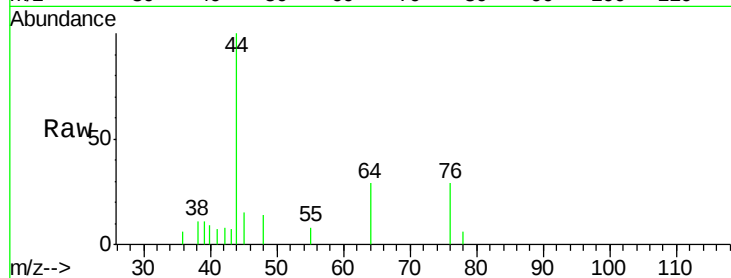
ClientSampleId :

Tot Ion: 76 Resp: 546

Ion Ratio Lower Upper

76 100

78 19.4 7.0 10.6#



#20

Methylene Chloride

Concen: 0.408 ug/l

RT: 2.87 min Scan# 374

Delta R.T. 0.00 min

Lab File: VX000255.D

Acq: 09 Mar 2018 15:08

Tgt Ion: 84 Resp: 437

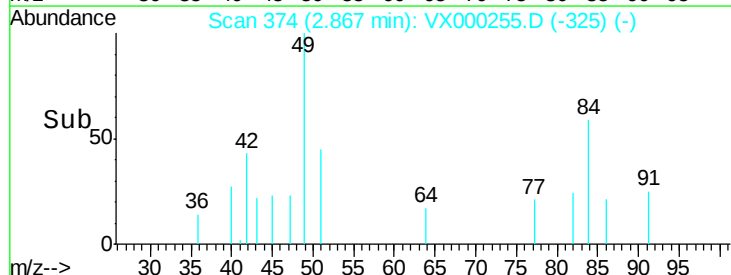
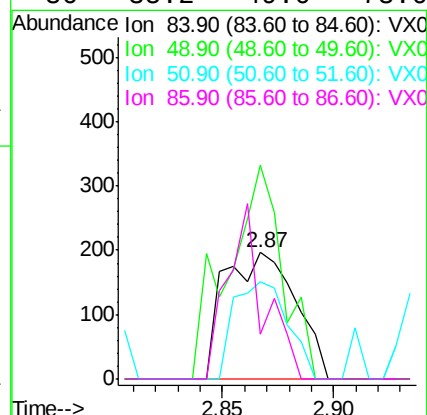
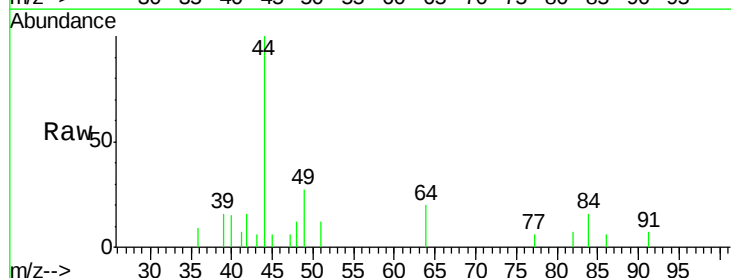
Ion Ratio Lower Upper

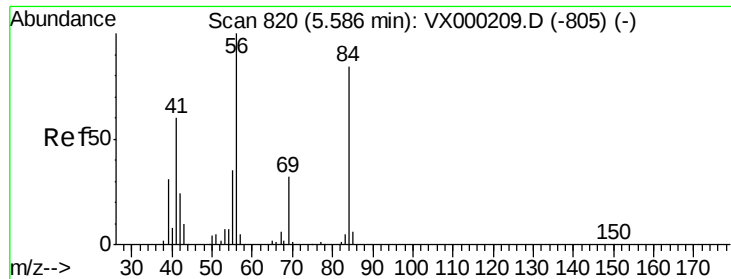
84 100

49 169.4 102.1 153.1#

51 77.0 30.6 45.8#

86 35.2 49.0 73.6#

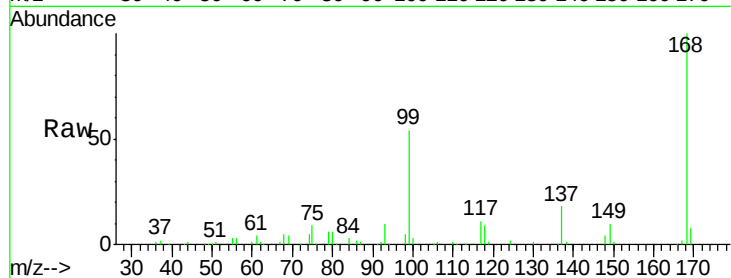




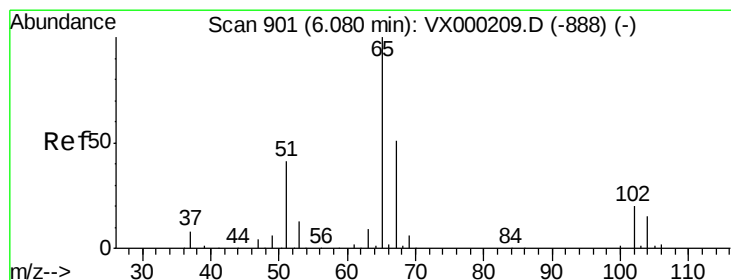
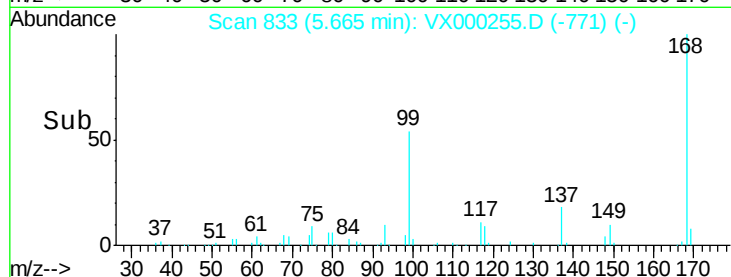
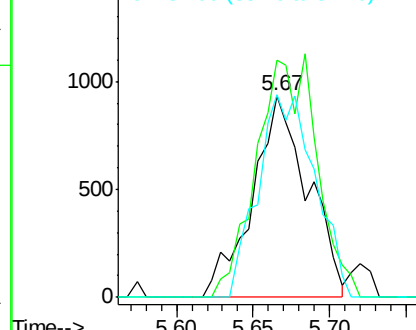
#31  
Cyclohexane  
Concen: 1.733 ug/l  
RT: 5.67 min Scan# 833  
Delta R.T. 0.08 min  
Lab File: VX000255.D  
Acq: 09 Mar 2018 15:08

Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion: 56 Resp: 2372  
Ion Ratio Lower Upper  
56 100  
69 117.5 25.3 37.9#  
84 100.4 67.2 100.8

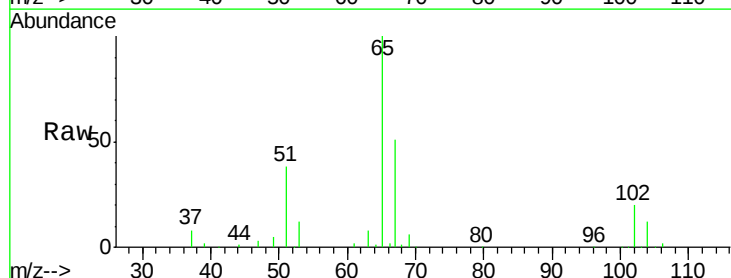


Abundance Ion 56.00 (55.70 to 56.70): VX0  
Ion 69.00 (68.70 to 69.70): VX0  
Ion 84.00 (83.70 to 84.70): VX0

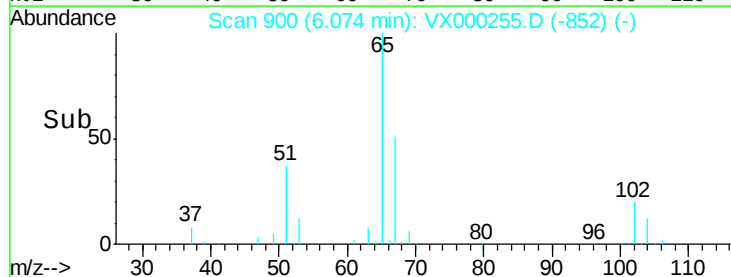
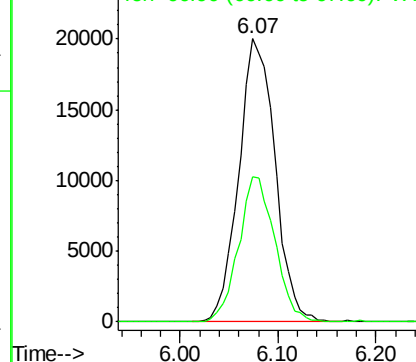


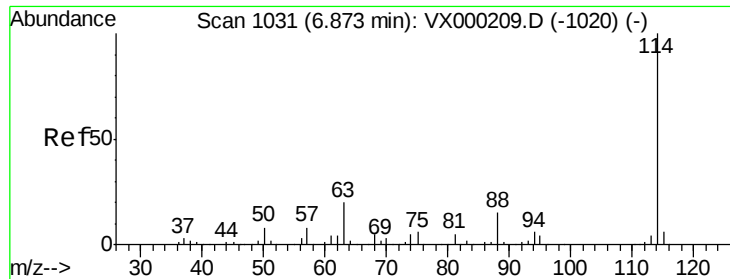
#33  
1,2-Dichloroethane-d4  
Concen: 41.180 ug/l  
RT: 6.07 min Scan# 900  
Delta R.T. -0.01 min  
Lab File: VX000255.D  
Acq: 09 Mar 2018 15:08

Tgt Ion: 65 Resp: 51507  
Ion Ratio Lower Upper  
65 100  
67 50.9 0.0 103.4



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

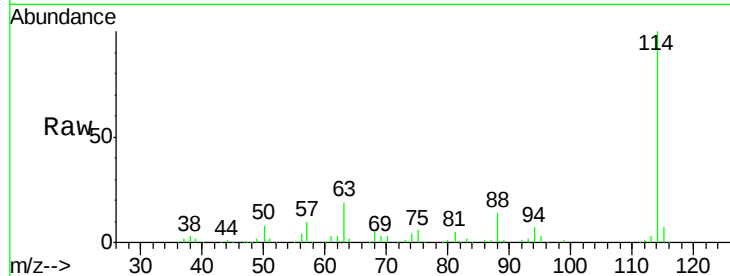




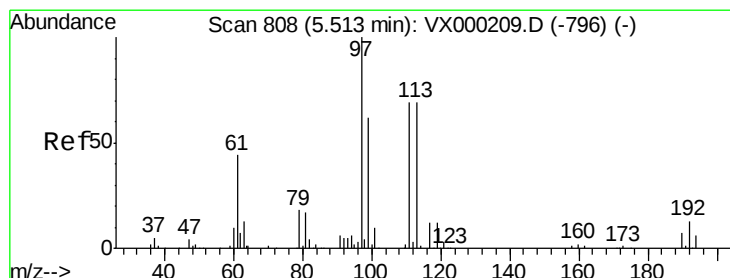
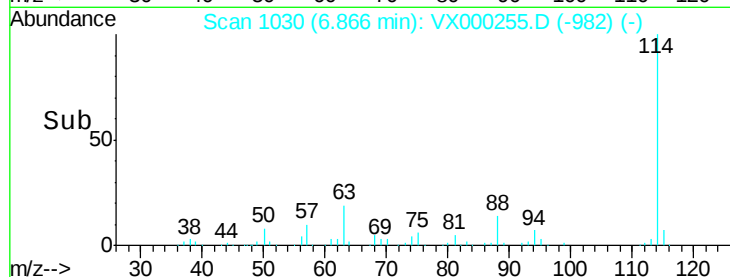
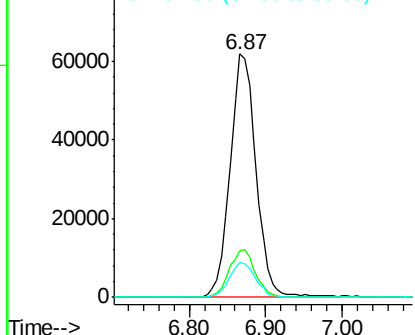
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.87 min Scan# 1030  
Delta R.T. -0.01 min  
Lab File: VX000255.D  
Acq: 09 Mar 2018 15:08

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion:114 Resp: 145089  
Ion Ratio Lower Upper  
114 100  
63 19.3 0.0 39.2  
88 14.3 0.0 29.8

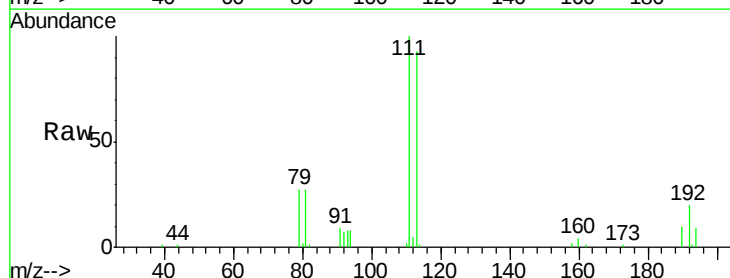


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): VX  
Ion 87.90 (87.60 to 88.60): VX

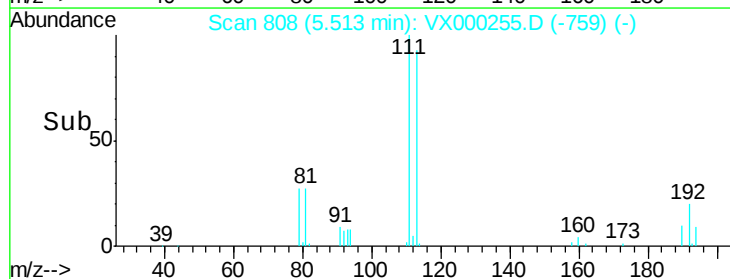
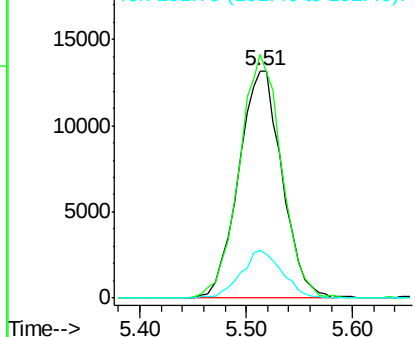


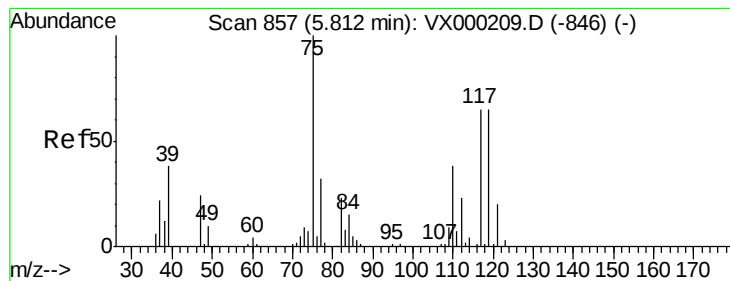
#35  
Dibromofluoromethane  
Concen: 41.354 ug/l  
RT: 5.51 min Scan# 808  
Delta R.T. 0.00 min  
Lab File: VX000255.D  
Acq: 09 Mar 2018 15:08

Tgt Ion:113 Resp: 37690  
Ion Ratio Lower Upper  
113 100  
111 104.5 83.0 124.6  
192 19.9 15.5 23.3



Abundance Ion 112.80 (112.50 to 113.50): V  
Ion 110.80 (110.50 to 111.50): V  
Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.902 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.15 min

Lab File: VX000255.D

Acq: 09 Mar 2018 15:08

Instrument :

MSVOA\_X

ClientSampleId :

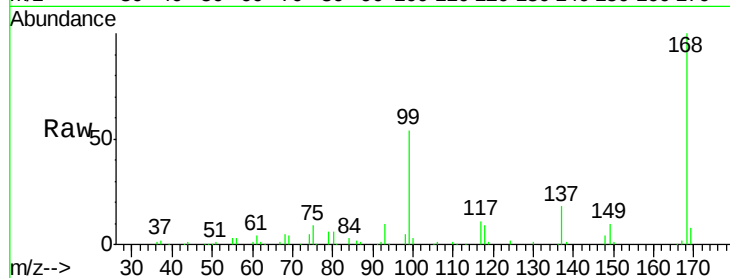
Tot Ion: 75 Resp: 7619

Ion Ratio Lower Upper

75 100

110 0.0 17.8 53.5#

77 0.0 24.9 37.3#

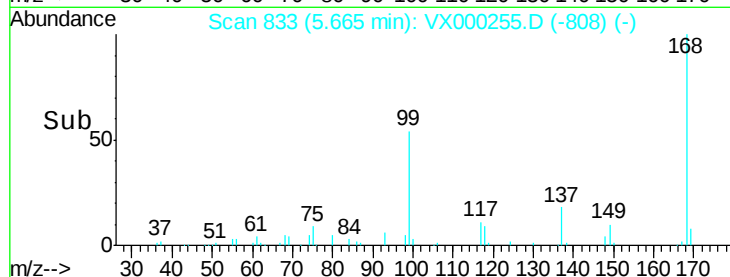


Abundance Ion 74.90 (74.60 to 75.60): VX000209.D (-846) (-)

Ion 109.90 (109.60 to 110.60): VX000209.D (-846) (-)

Ion 76.90 (76.60 to 77.60): VX000209.D (-846) (-)

Time-->

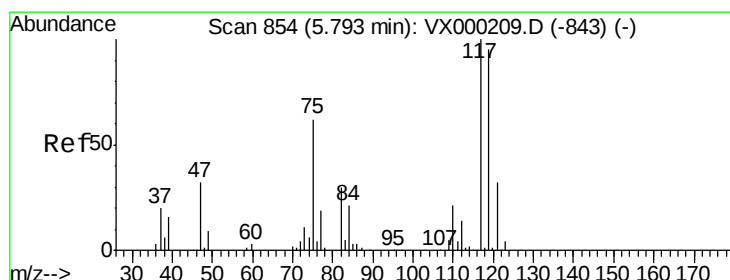


Abundance Ion 74.90 (74.60 to 75.60): VX000209.D (-846) (-)

Ion 109.90 (109.60 to 110.60): VX000209.D (-846) (-)

Ion 76.90 (76.60 to 77.60): VX000209.D (-846) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 7.086 ug/l

RT: 5.67 min Scan# 833

Delta R.T. -0.13 min

Lab File: VX000255.D

Acq: 09 Mar 2018 15:08

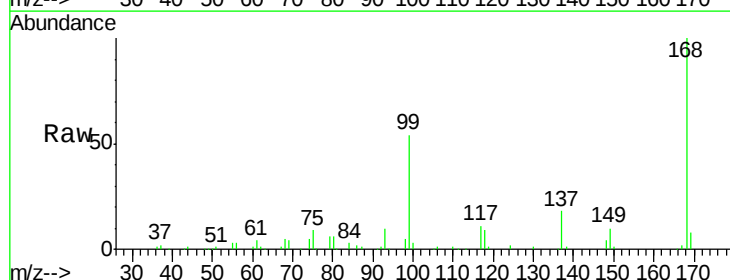
Tgt Ion: 117 Resp: 9258

Ion Ratio Lower Upper

117 100

119 5.3 75.9 113.9#

121 0.0 25.8 38.6#

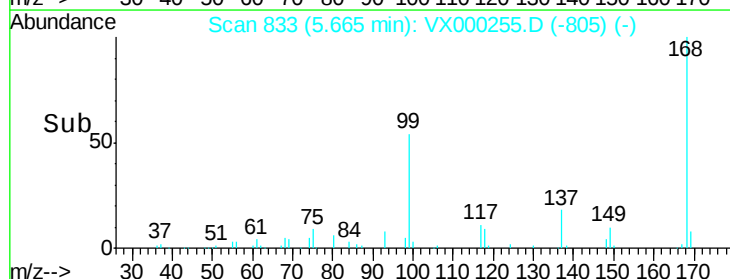


Abundance Ion 116.80 (116.50 to 117.50): VX000209.D (-843) (-)

Ion 118.80 (118.50 to 119.50): VX000209.D (-843) (-)

Ion 120.80 (120.50 to 121.50): VX000209.D (-843) (-)

Time-->

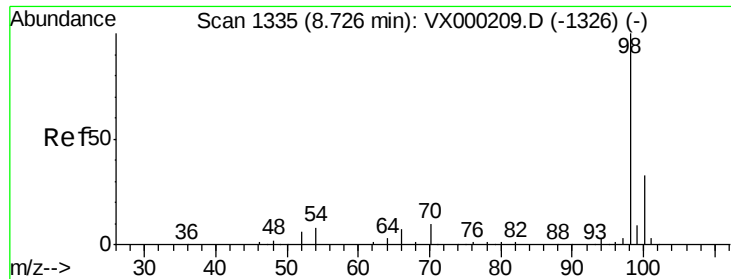


Abundance Ion 116.80 (116.50 to 117.50): VX000209.D (-843) (-)

Ion 118.80 (118.50 to 119.50): VX000209.D (-843) (-)

Ion 120.80 (120.50 to 121.50): VX000209.D (-843) (-)

Time-->



#50

Toluene-d8

Concen: 39.366 ug/l

RT: 8.73 min Scan# 1335

Delta R.T. 0.00 min

Lab File: VX000255.D

Acq: 09 Mar 2018 15:08

Instrument :

MSVOA\_X

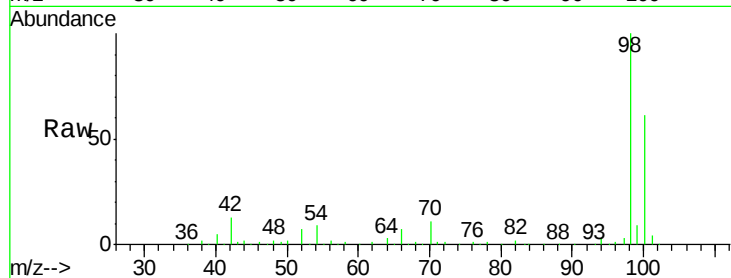
ClientSampleId :

Tot Ion: 98 Resp: 148598

Ion Ratio Lower Upper

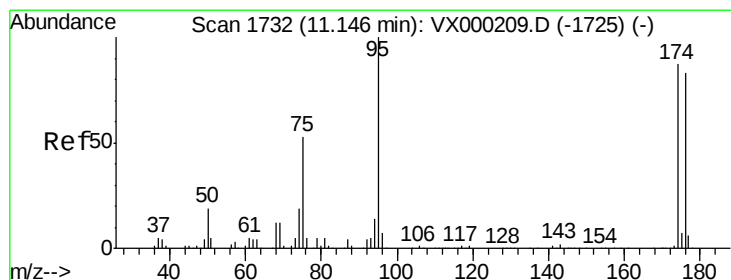
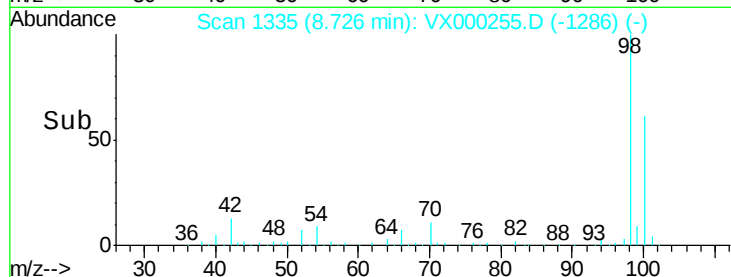
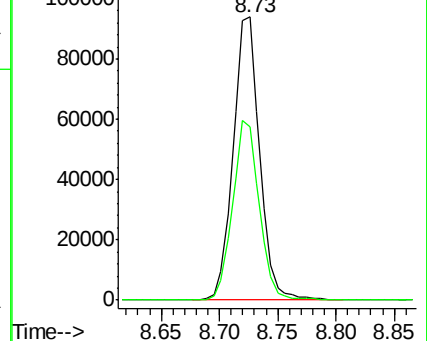
98 100

100 63.8 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 36.433 ug/l

RT: 11.15 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VX000255.D

Acq: 09 Mar 2018 15:08

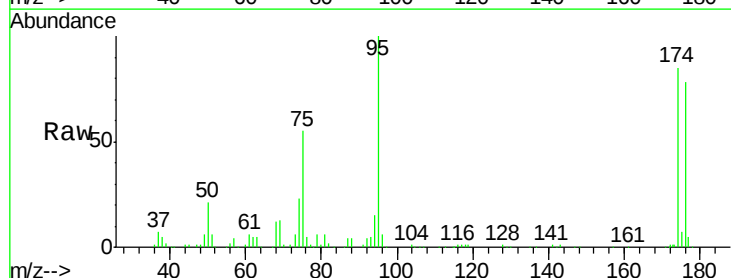
Tgt Ion: 95 Resp: 53677

Ion Ratio Lower Upper

95 100

174 86.1 0.0 175.6

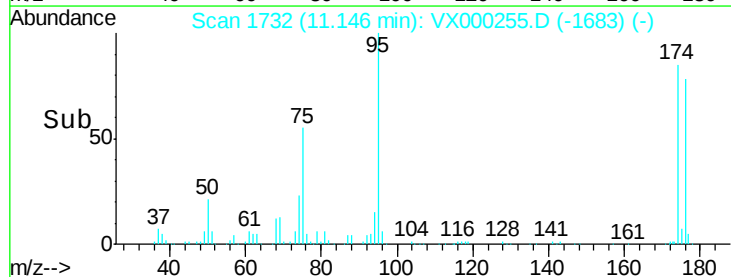
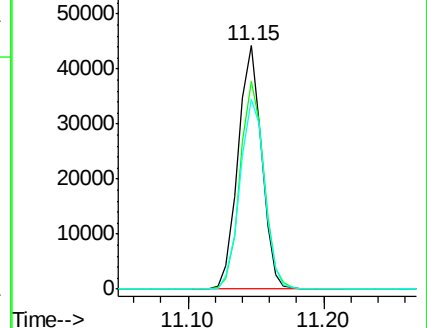
176 80.8 0.0 171.0

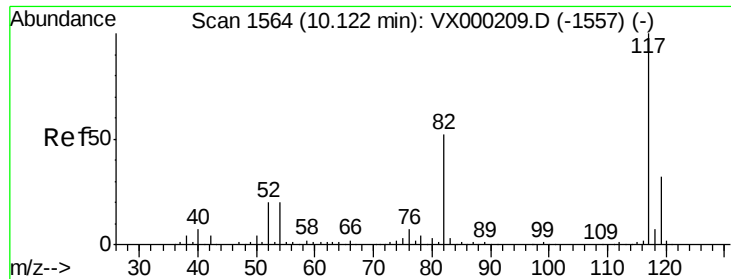


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

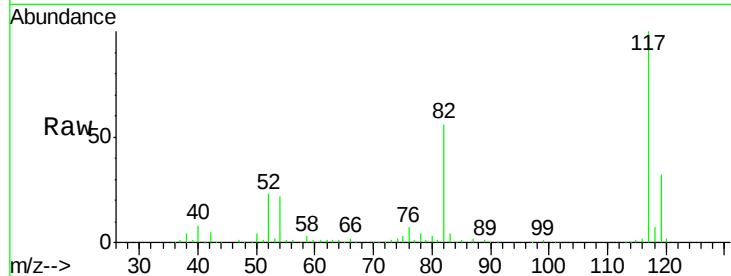




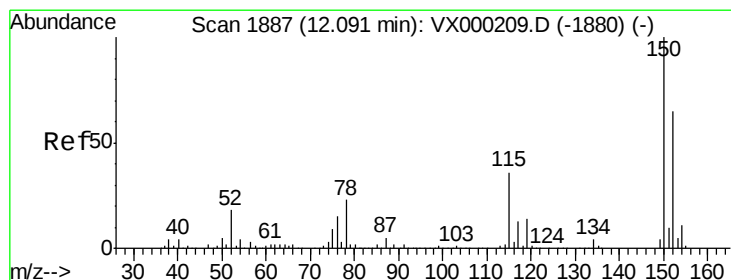
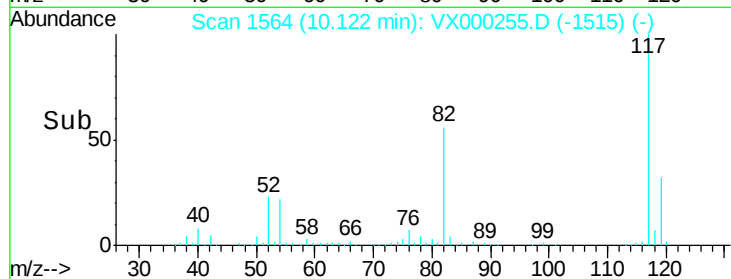
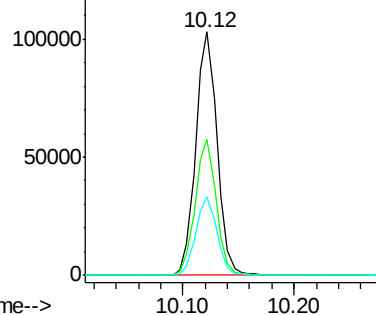
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.12 min Scan# 1564  
Delta R.T. 0.00 min  
Lab File: VX000255.D  
Acq: 09 Mar 2018 15:08

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion:117 Resp: 136962  
Ion Ratio Lower Upper  
117 100  
82 56.2 42.0 63.0  
119 32.0 25.3 37.9

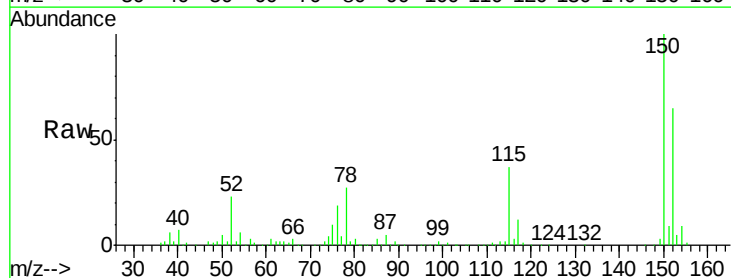


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

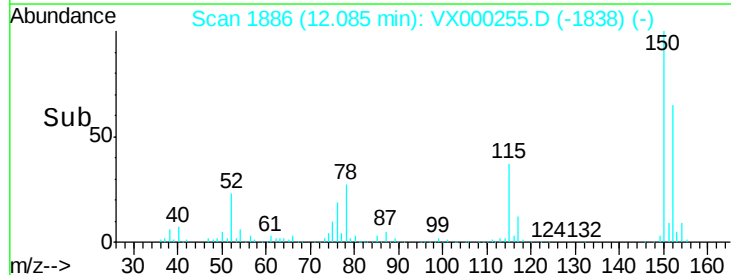
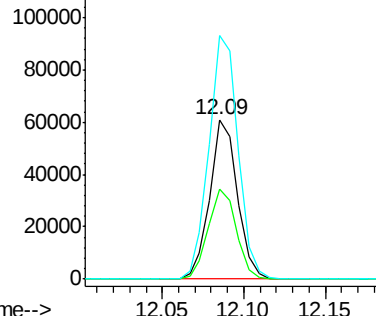


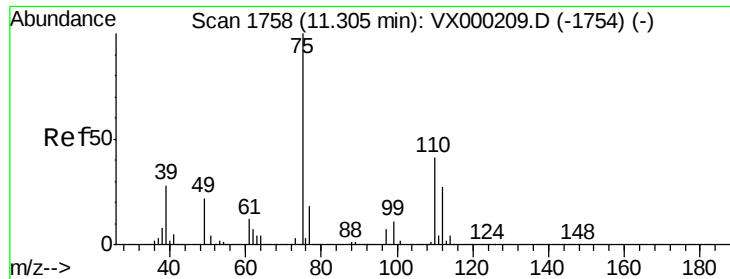
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.09 min Scan# 1886  
Delta R.T. -0.01 min  
Lab File: VX000255.D  
Acq: 09 Mar 2018 15:08

Tgt Ion:152 Resp: 71807  
Ion Ratio Lower Upper  
152 100  
115 57.8 39.8 119.3  
150 161.4 0.0 345.0



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V

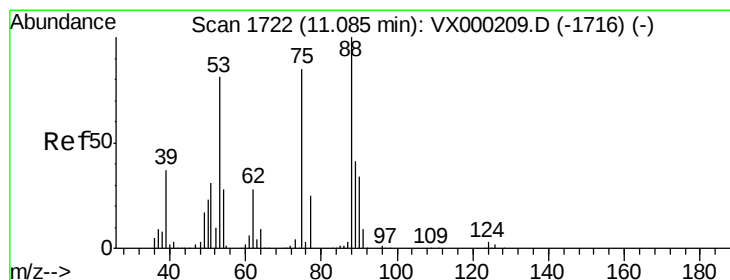
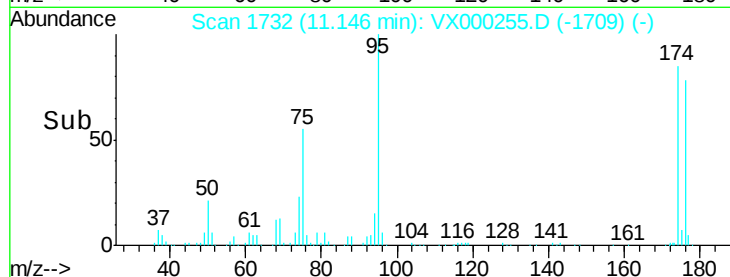
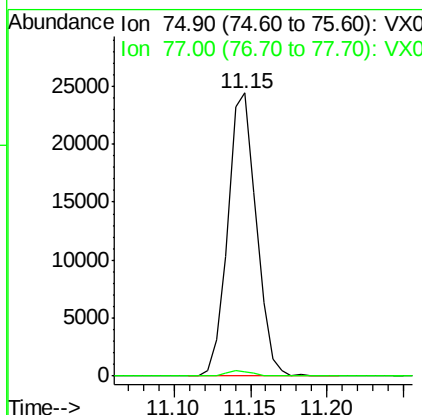
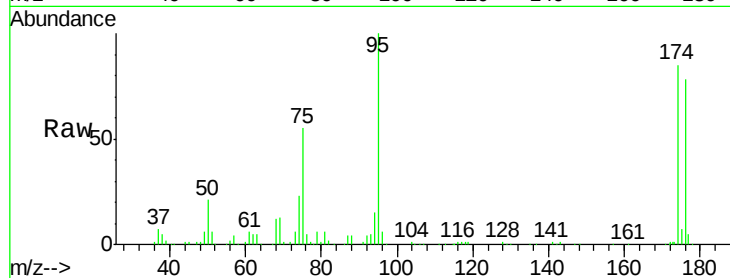




#76  
 1,2,3-Trichloropropane  
 Concen: 21.824 ug/l  
 RT: 11.15 min Scan# 1732  
 Delta R.T. -0.16 min  
 Lab File: VX000255.D  
 Acq: 09 Mar 2018 15:08

Instrument :  
 MSVOA\_X  
 ClientSampled :

Tot Ion: 75 Resp: 31413  
 Ion Ratio Lower Upper  
 75 100  
 77 1.6 22.3 66.8#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 66.827 ug/l  
 RT: 11.15 min Scan# 1732  
 Delta R.T. 0.06 min  
 Lab File: VX000255.D  
 Acq: 09 Mar 2018 15:08

Tgt Ion: 75 Resp: 31413  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 78.6 118.0#  
 89 0.1 38.8 58.2#

