

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX041618\  
 Data File : VX000947.D  
 Acq On : 17 Apr 2018 04:08  
 Operator : JC/MD  
 Sample : J2369-04 5X  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Apr 17 05:53:50 2018  
 Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X041018W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 10 15:49:28 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 264059   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.87  | 114  | 361554   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 336633   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.09 | 152  | 218014   | 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   | 162066   | 48.68 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 97.36% |          |
| 35) Dibromofluoromethane    | 5.51   | 113  | 128485   | 46.13 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 92.26% |          |
| 50) Toluene-d8              | 8.72   | 98   | 506001   | 48.79 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 97.58% |          |
| 62) 4-Bromofluorobenzene    | 11.14  | 95   | 195233   | 45.50 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 |      | Recovery | =     | 91.00% |          |

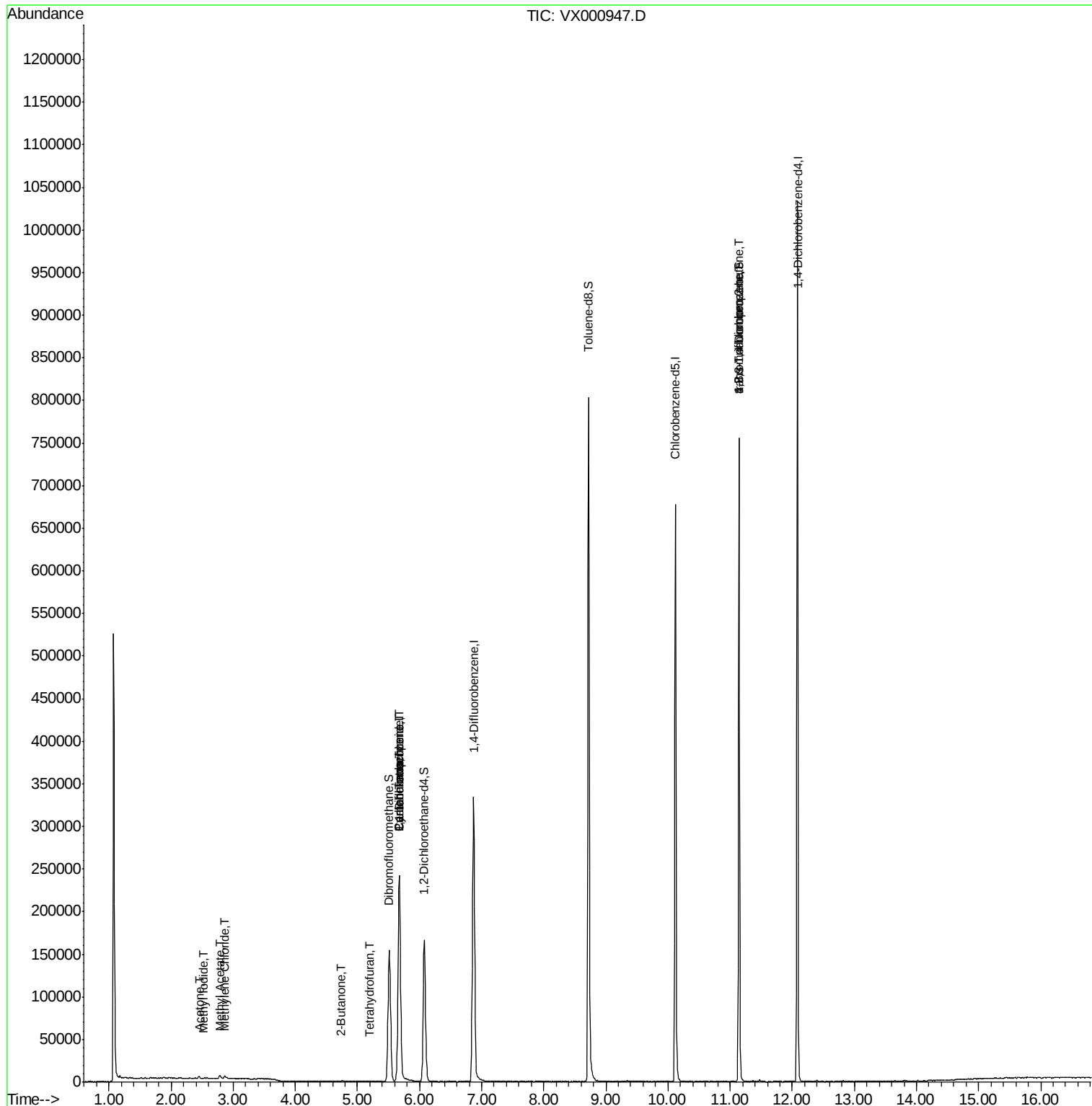
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.63  | 94   | 118      | Below Cal | #      | 2      |
| 10) Methyl Iodide              | 2.53  | 142  | 83       | 8.265     | ug/l # | 42     |
| 16) Acetone                    | 2.45  | 43   | 2585     | 2.251     | ug/l   | 99     |
| 18) Methyl Acetate             | 2.78  | 43   | 4786     | 1.611     | ug/l   | 99     |
| 20) Methylene Chloride         | 2.87  | 84   | 1309     | 0.490     | ug/l # | 82     |
| 25) 2-Butanone                 | 4.72  | 43   | 912      | 0.481     | ug/l   | 93     |
| 29) Tetrahydrofuran            | 5.19  | 42   | 639      | 0.531     | ug/l # | 58     |
| 31) Cyclohexane                | 5.67  | 56   | 4376     | 0.997     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 16037    | 4.027     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 22143    | 4.968     | ug/l # | 15     |
| 76) 1,2,3-Trichloropropane     | 11.14 | 75   | 95713    | 25.456    | ug/l # | 36     |
| 81) trans-1,4-Dichloro-2-buten | 11.14 | 75   | 95713    | 70.025    | ug/l # | 11     |

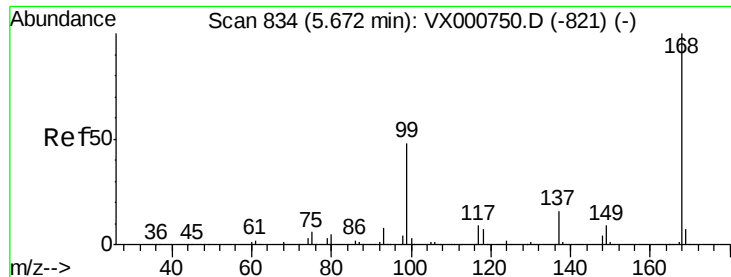
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Apr 17 05:53:50 2018  
Quant Method : W:\HPCHEM1\MSVOA\_X\METHOD\82X041018W.M  
Quant Title : SW846 8260  
QLast Update : Tue Apr 10 15:49:28 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 834

Delta R.T. -0.00 min

Lab File: VX000947.D

Acq: 17 Apr 2018 04:08

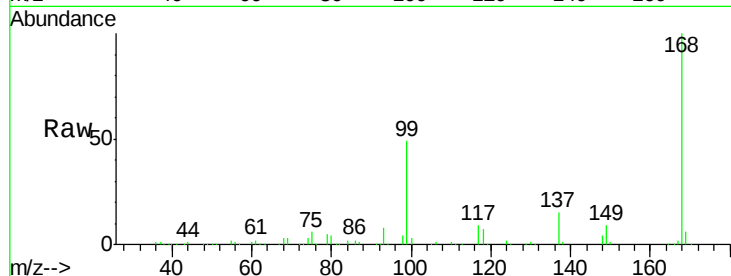
Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion:168 Resp: 264059

Ion Ratio Lower Upper

168 100

99 48.6 38.3 57.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

60000

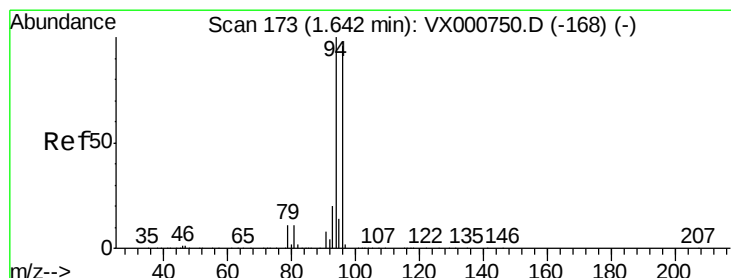
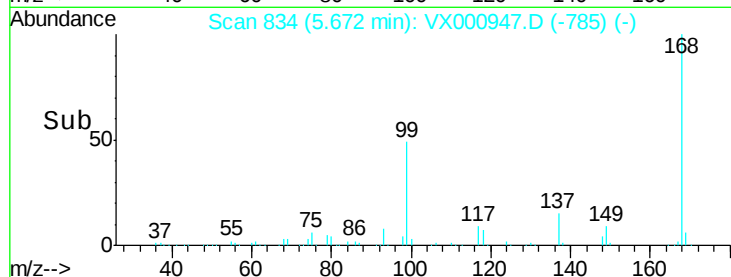
40000

20000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#5

Bromomethane

Concen: Below Cal

RT: 1.63 min Scan# 171

Delta R.T. -0.01 min

Lab File: VX000947.D

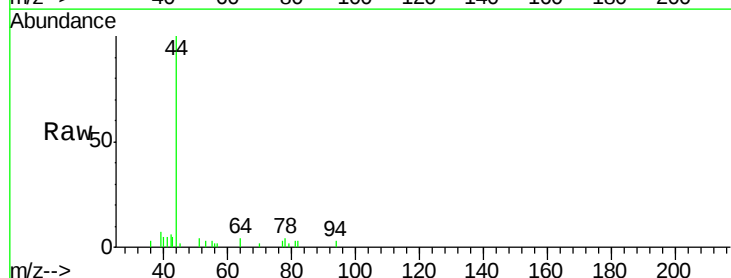
Acq: 17 Apr 2018 04:08

Tgt Ion: 94 Resp: 118

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.6#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.63

150

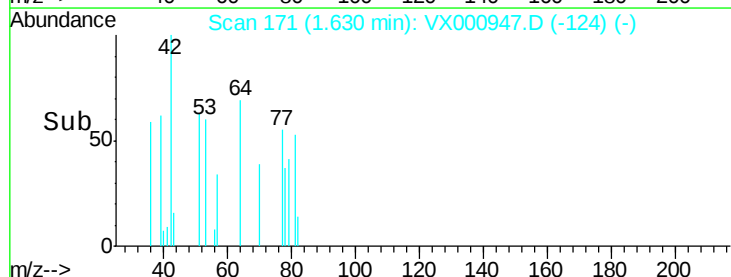
100

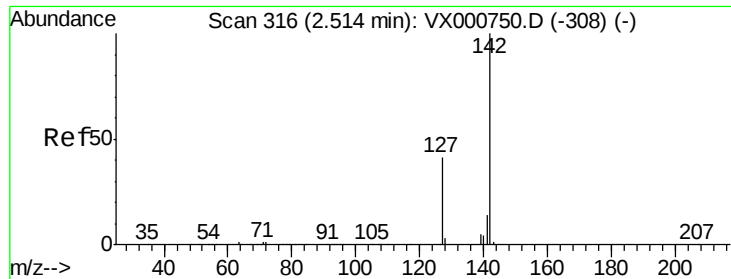
50

0

Time-->

1.60 1.62 1.64

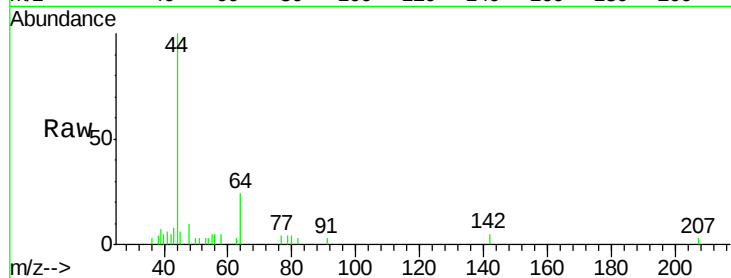




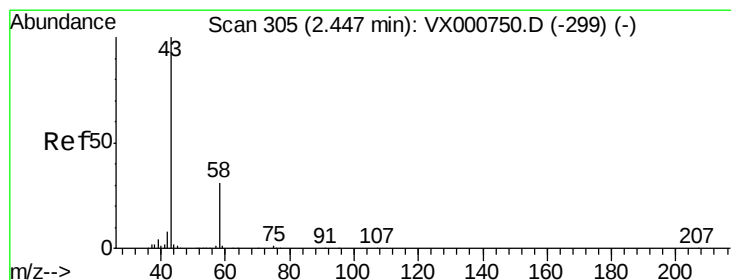
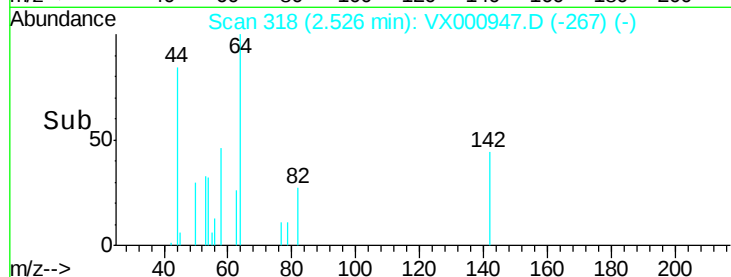
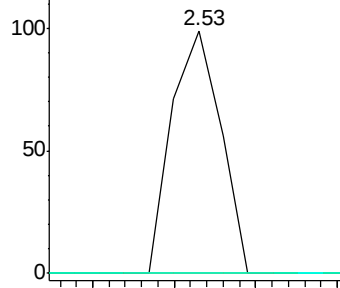
#10  
Methvl Iodide  
Concen: 8.265 ug/l  
RT: 2.53 min Scan# 318  
Delta R.T. 0.01 min  
Lab File: VX000947.D  
Acq: 17 Apr 2018 04:08

Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion:142 Resp: 83  
Ion Ratio Lower Upper  
142 100  
127 0.0 32.6 49.0#  
141 0.0 11.5 17.3#

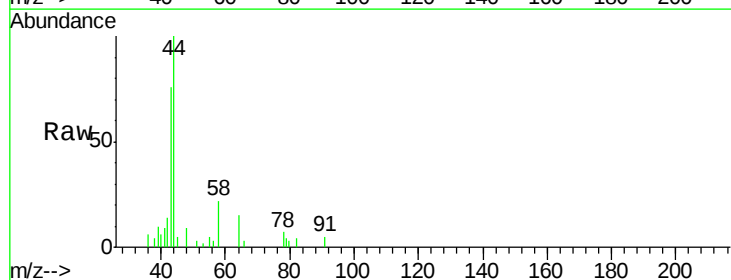


Abundance Ion 141.80 (141.50 to 142.50): V  
Ion 126.80 (126.50 to 127.50): V  
Ion 140.80 (140.50 to 141.50): V

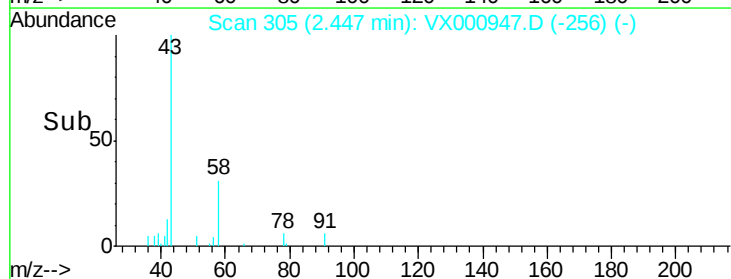
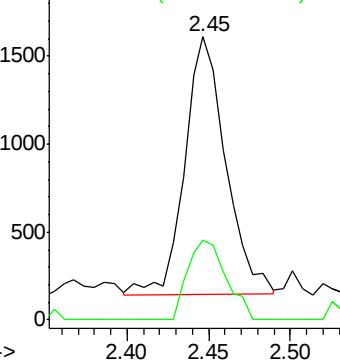


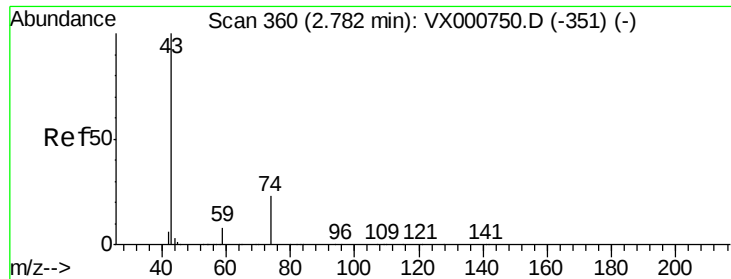
#16  
Acetone  
Concen: 2.251 ug/l  
RT: 2.45 min Scan# 305  
Delta R.T. -0.00 min  
Lab File: VX000947.D  
Acq: 17 Apr 2018 04:08

Tgt Ion: 43 Resp: 2585  
Ion Ratio Lower Upper  
43 100  
58 31.3 24.6 37.0



Abundance Ion 43.00 (42.70 to 43.70): VX0  
Ion 58.00 (57.70 to 58.70): VX0

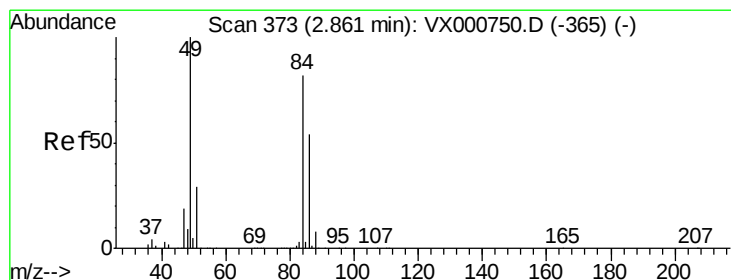
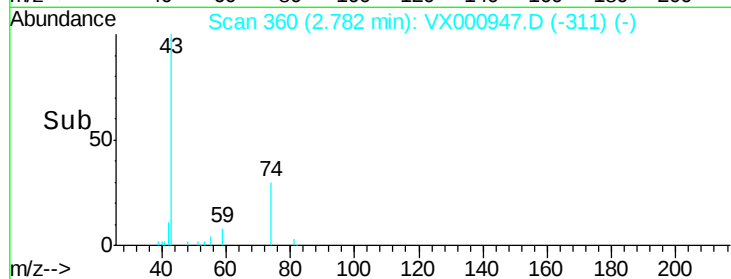
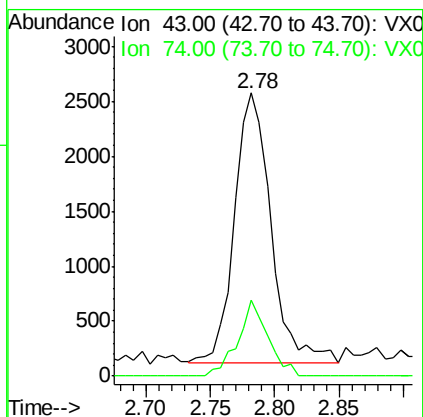
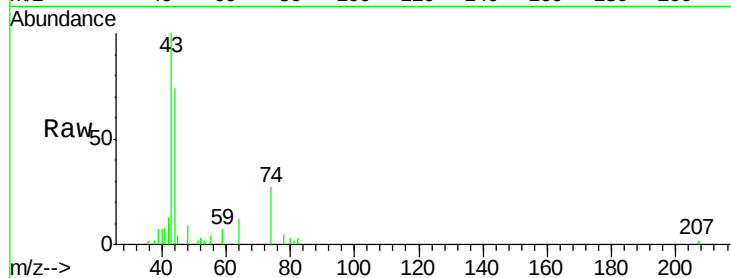




#18  
Methvl Acetate  
Concen: 1.611 ug/l  
RT: 2.78 min Scan# 360  
Delta R.T. -0.00 min  
Lab File: VX000947.D  
Acq: 17 Apr 2018 04:08

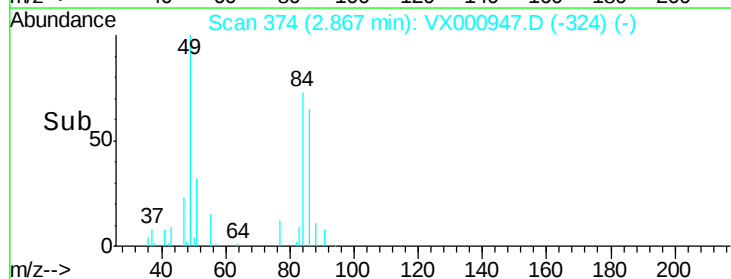
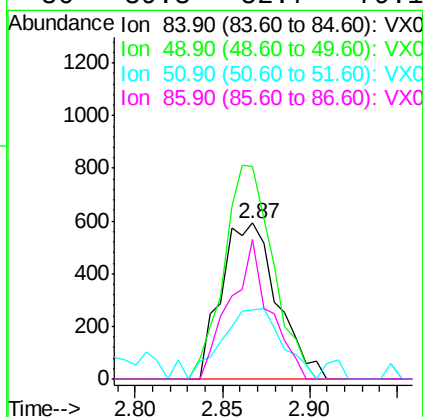
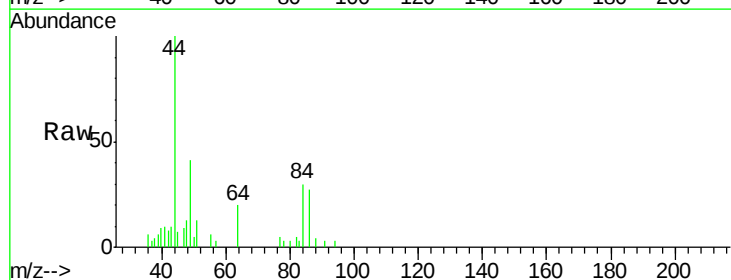
Instrument :  
MSVOA\_X  
ClientSampleId :

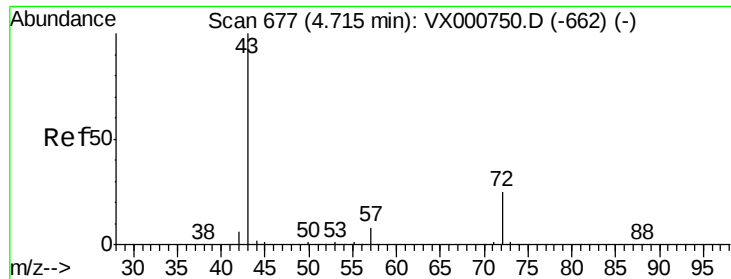
Tot Ion: 43 Resp: 4786  
Ion Ratio Lower Upper  
43 100  
74 23.4 19.1 28.7



#20  
Methylene Chloride  
Concen: 0.490 ug/l  
RT: 2.87 min Scan# 374  
Delta R.T. 0.01 min  
Lab File: VX000947.D  
Acq: 17 Apr 2018 04:08

Tgt Ion: 84 Resp: 1309  
Ion Ratio Lower Upper  
84 100  
49 136.9 98.1 147.1  
51 44.3 28.9 43.3#  
86 89.3 52.7 79.1#





#25

2-Butanone

Concen: 0.481 ug/l

RT: 4.72 min Scan# 678

Delta R.T. 0.01 min

Lab File: VX000947.D

Acq: 17 Apr 2018 04:08

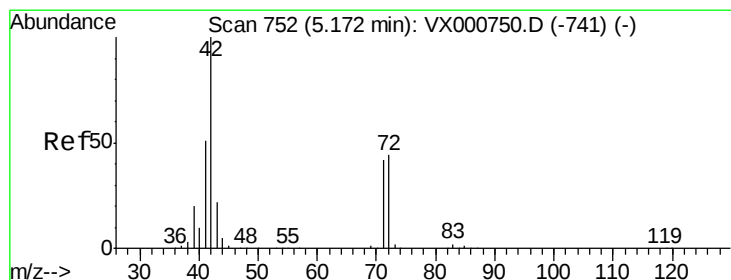
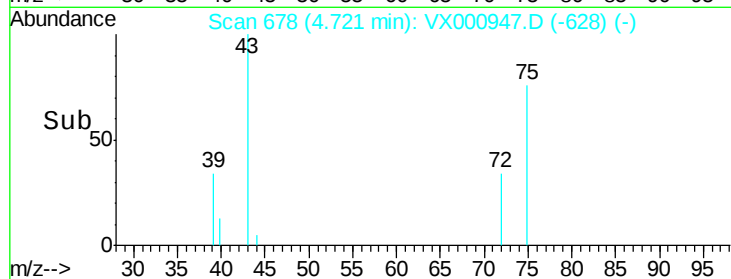
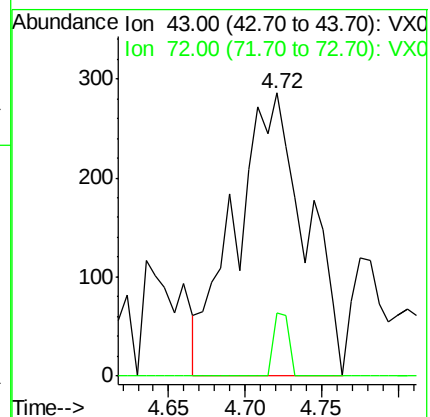
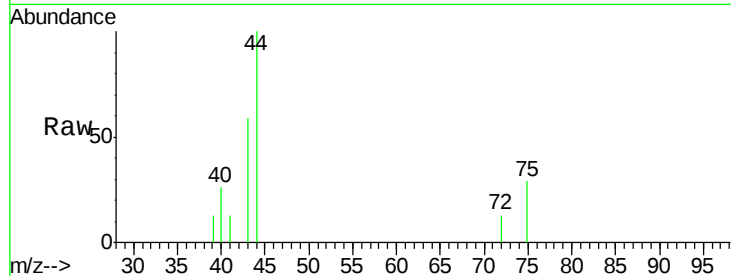
Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion: 43 Resp: 912

Ion Ratio Lower Upper

43 100

72 22.0 20.3 30.5



#29

Tetrahydrofuran

Concen: 0.531 ug/l

RT: 5.19 min Scan# 755

Delta R.T. 0.02 min

Lab File: VX000947.D

Acq: 17 Apr 2018 04:08

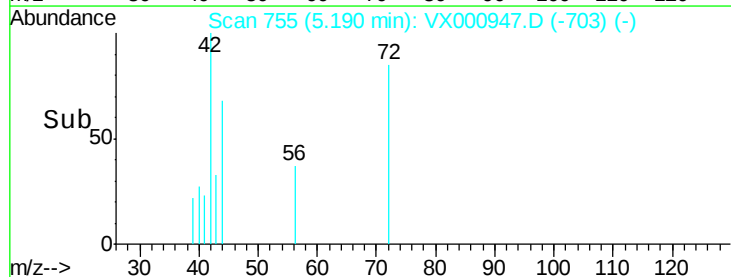
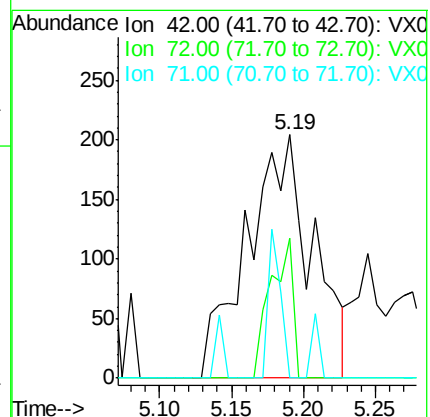
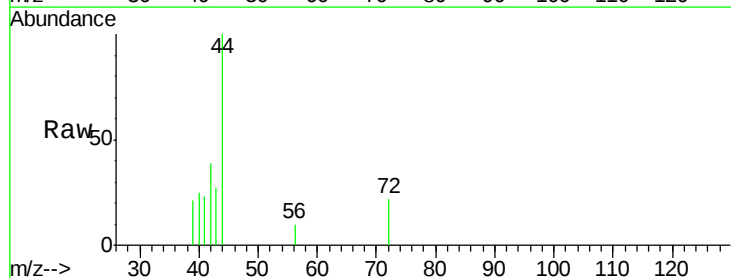
Tgt Ion: 42 Resp: 639

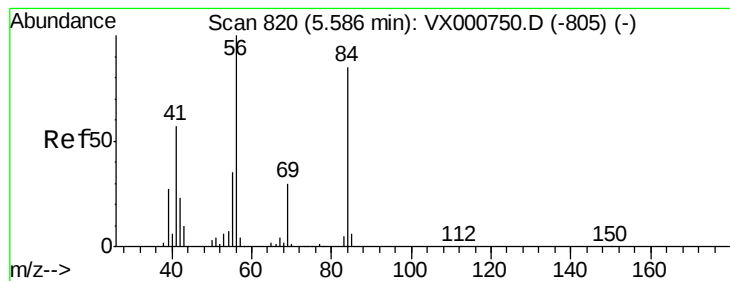
Ion Ratio Lower Upper

42 100

72 19.6 35.1 52.7#

71 11.3 32.8 49.2#





#31

Cyclohexane

Concen: 0.997 ug/l

RT: 5.67 min Scan# 833

Delta R.T. 0.08 min

Lab File: VX000947.D

Acq: 17 Apr 2018 04:08

Instrument :  
MSVOA\_X  
ClientSampled :

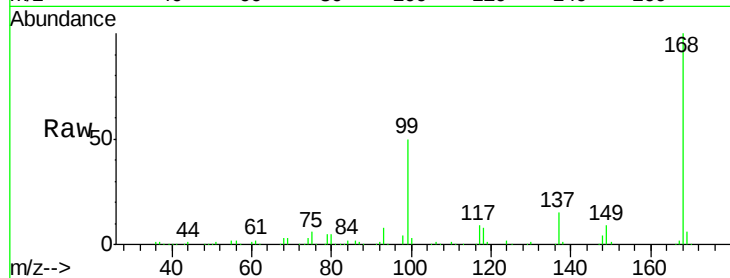
Tot Ion: 56 Resp: 4376

Ion Ratio Lower Upper

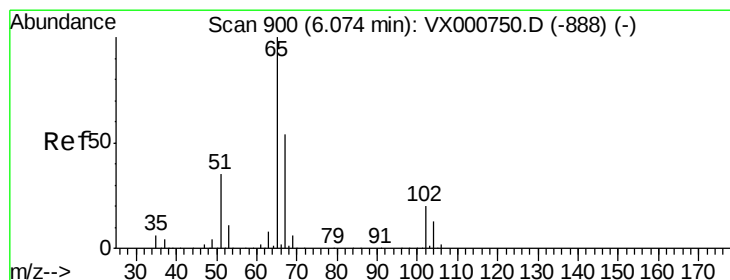
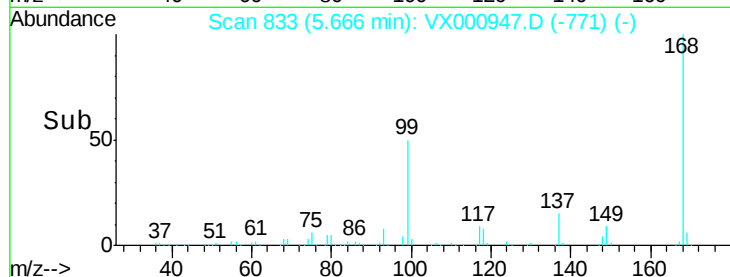
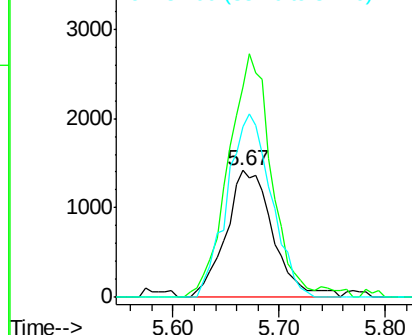
56 100

69 161.5 24.2 36.4#

84 134.3 67.6 101.4#



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: 48.676 ug/l

RT: 6.07 min Scan# 900

Delta R.T. -0.00 min

Lab File: VX000947.D

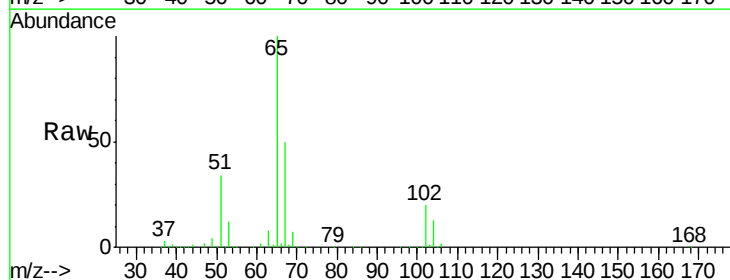
Acq: 17 Apr 2018 04:08

Tgt Ion: 65 Resp: 162066

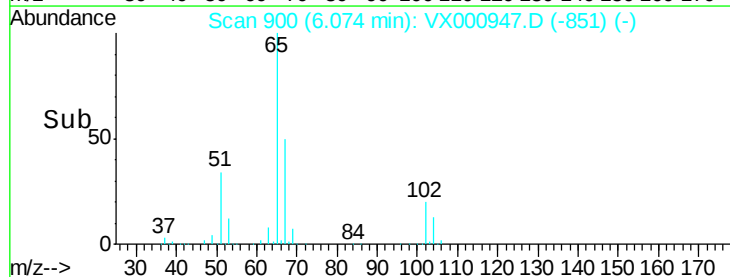
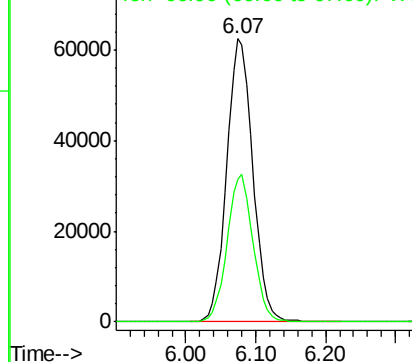
Ion Ratio Lower Upper

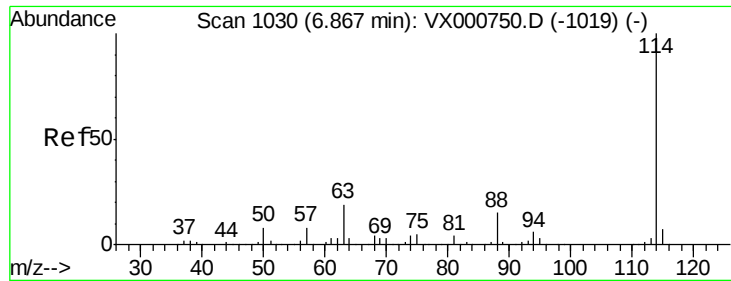
65 100

67 51.3 0.0 103.8



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

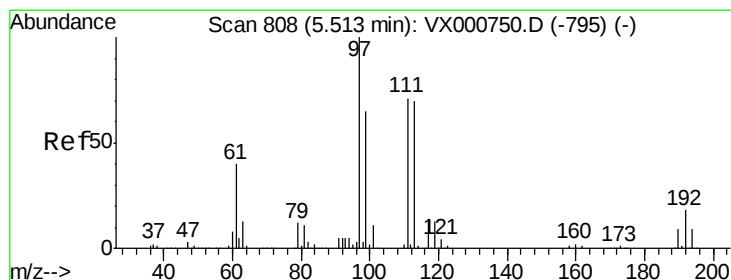
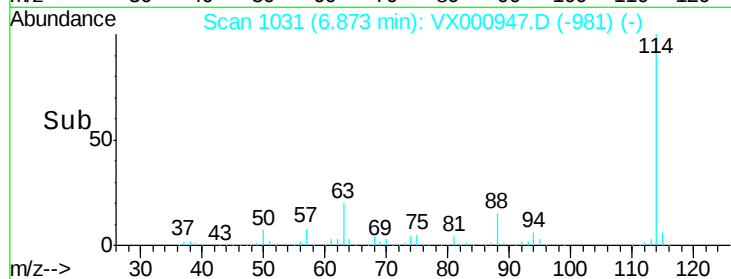
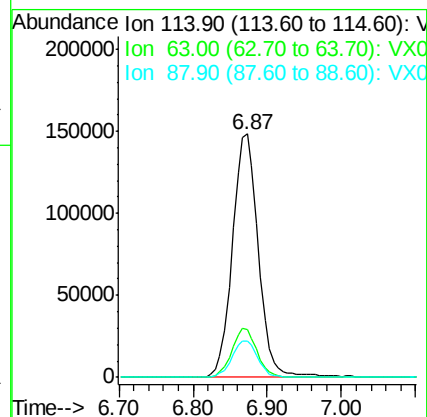
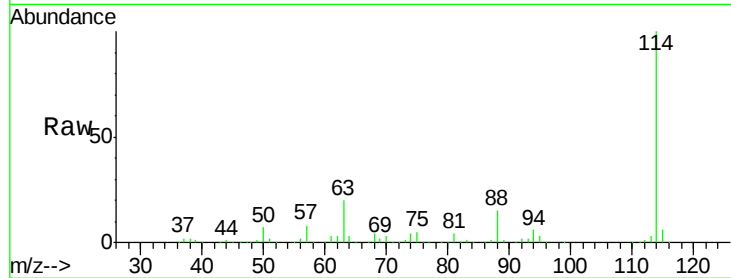




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.87 min Scan# 1031  
 Delta R.T. 0.01 min  
 Lab File: VX000947.D  
 Acq: 17 Apr 2018 04:08

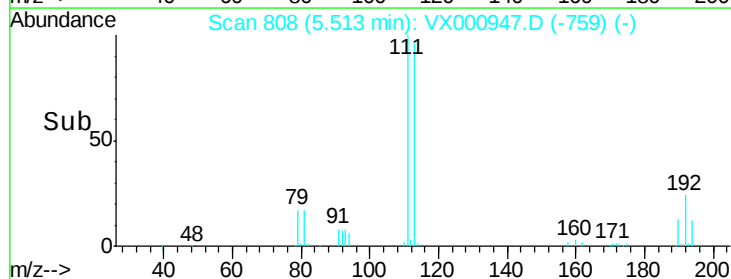
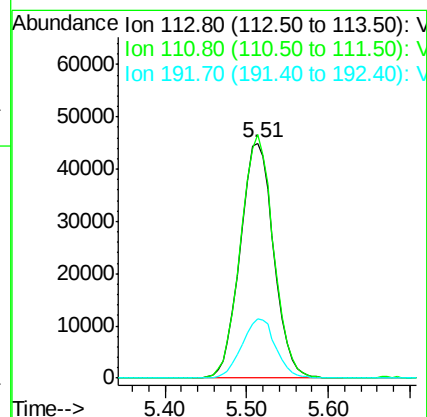
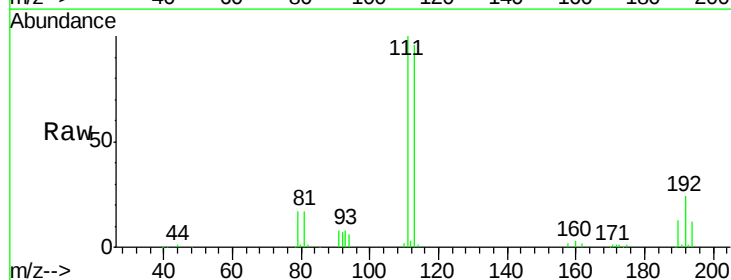
Instrument :  
 MSVOA\_X  
 ClientSampleId :

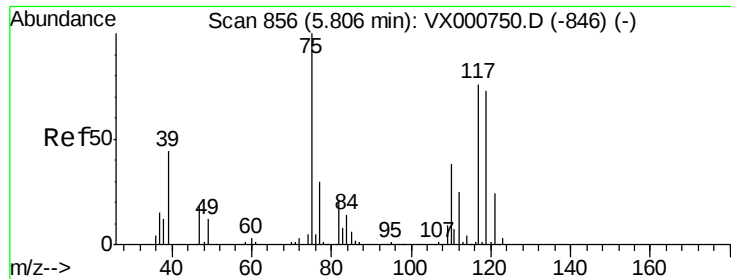
Tot Ion:114 Resp: 361554  
 Ion Ratio Lower Upper  
 114 100  
 63 19.6 0.0 38.4  
 88 15.0 0.0 31.0



#35  
 Dibromofluoromethane  
 Concen: 46.125 ug/l  
 RT: 5.51 min Scan# 808  
 Delta R.T. -0.00 min  
 Lab File: VX000947.D  
 Acq: 17 Apr 2018 04:08

Tgt Ion:113 Resp: 128485  
 Ion Ratio Lower Upper  
 113 100  
 111 101.4 81.5 122.3  
 192 25.4 20.4 30.6

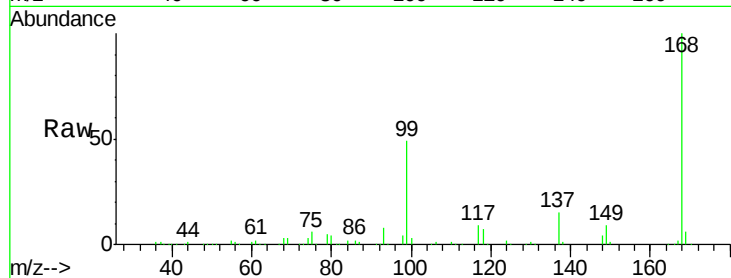




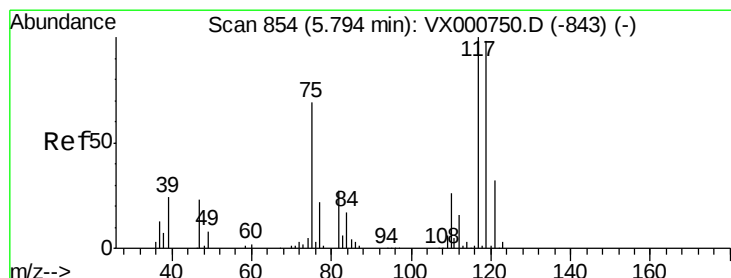
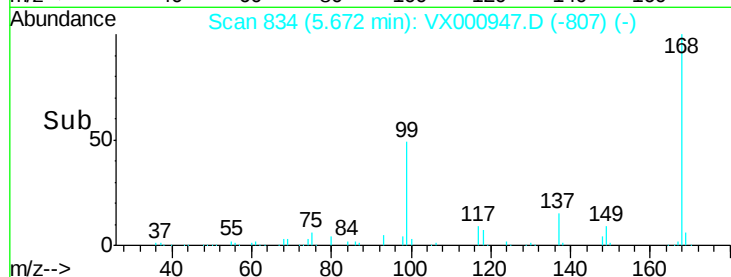
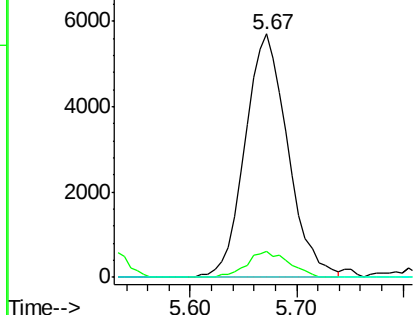
#36  
 1,1-Dichloropropene  
 Concen: 4.027 ug/l  
 RT: 5.67 min Scan# 834  
 Delta R.T. -0.13 min  
 Lab File: VX000947.D  
 Acq: 17 Apr 2018 04:08

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Tot Ion: 75 Resp: 16037  
 Ion Ratio Lower Upper  
 75 100  
 110 10.4 19.2 57.6#  
 77 0.0 25.4 38.2#

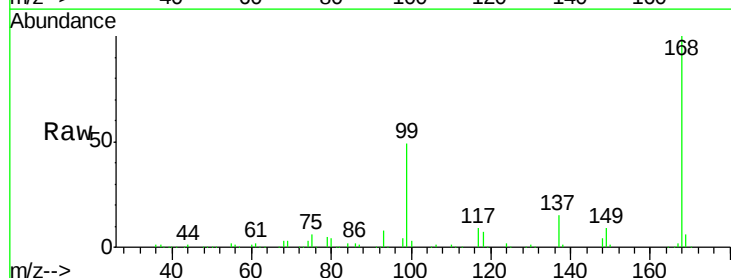


Abundance Ion 74.90 (74.60 to 75.60): VX0  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): VX0

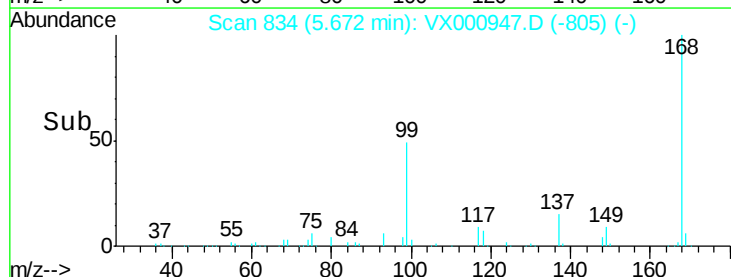
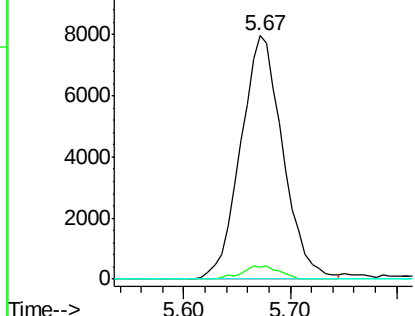


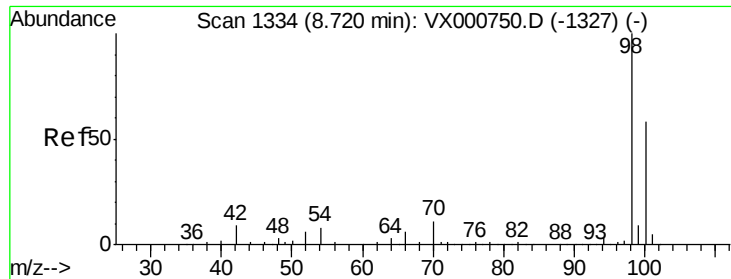
#38  
 Carbon Tetrachloride  
 Concen: 4.968 ug/l  
 RT: 5.67 min Scan# 834  
 Delta R.T. -0.12 min  
 Lab File: VX000947.D  
 Acq: 17 Apr 2018 04:08

Tgt Ion: 117 Resp: 22143  
 Ion Ratio Lower Upper  
 117 100  
 119 5.0 78.4 117.6#  
 121 0.0 25.4 38.0#



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

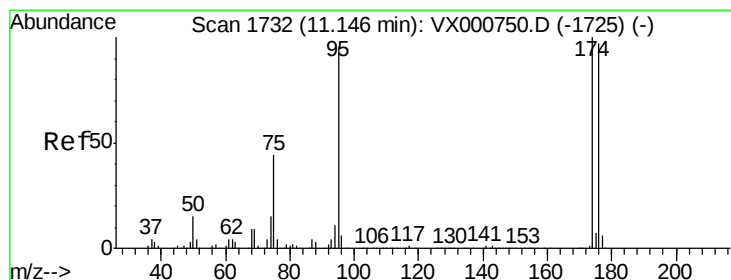
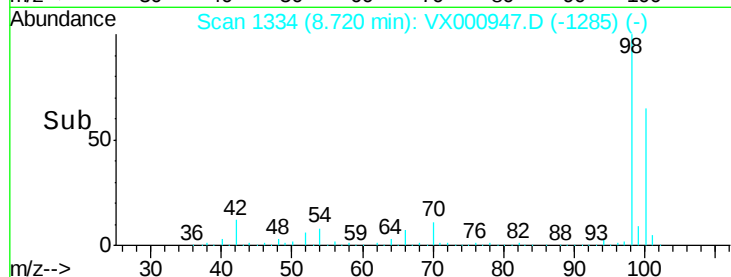
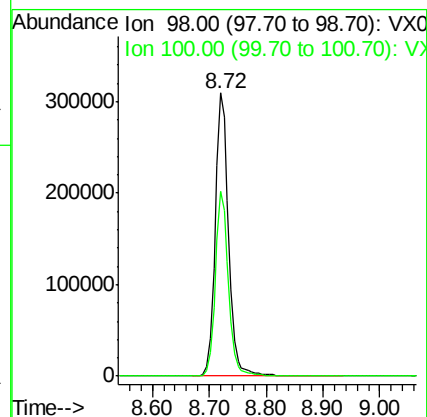
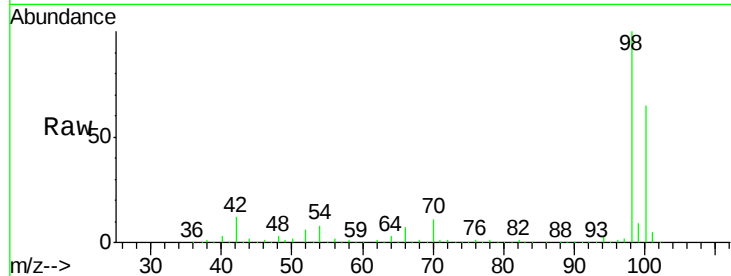




#50  
Toluene-d8  
Concen: 48.787 ug/l  
RT: 8.72 min Scan# 1334  
Delta R.T. -0.00 min  
Lab File: VX000947.D  
Acq: 17 Apr 2018 04:08

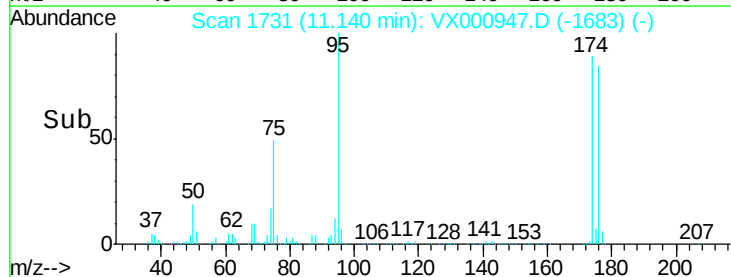
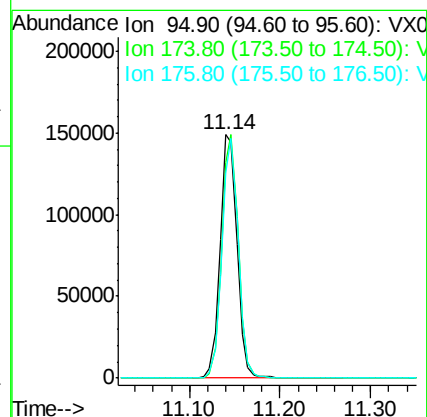
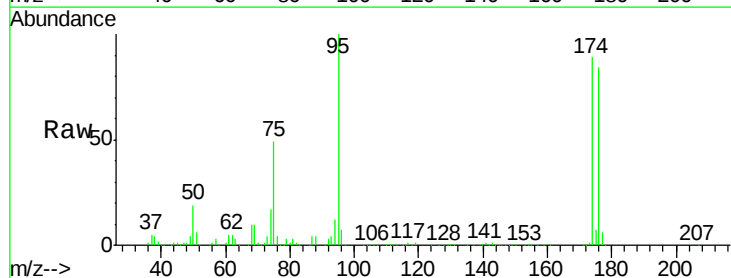
Instrument :  
MSVOA\_X  
ClientSampleId :

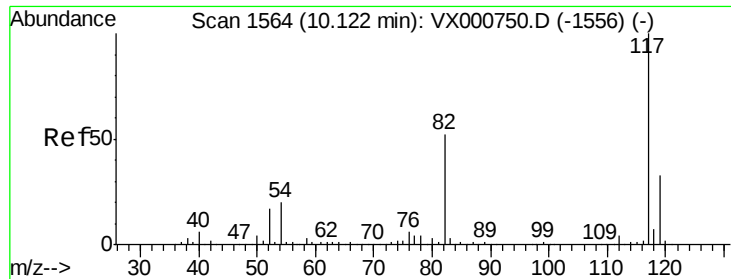
Tot Ion: 98 Resp: 506001  
Ion Ratio Lower Upper  
98 100  
100 64.2 52.6 79.0



#62  
4-Bromofluorobenzene  
Concen: 45.498 ug/l  
RT: 11.14 min Scan# 1731  
Delta R.T. -0.01 min  
Lab File: VX000947.D  
Acq: 17 Apr 2018 04:08

Tgt Ion: 95 Resp: 195233  
Ion Ratio Lower Upper  
95 100  
174 97.3 0.0 198.4  
176 94.9 0.0 194.4

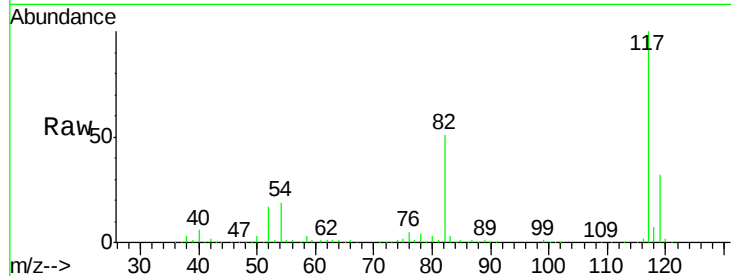




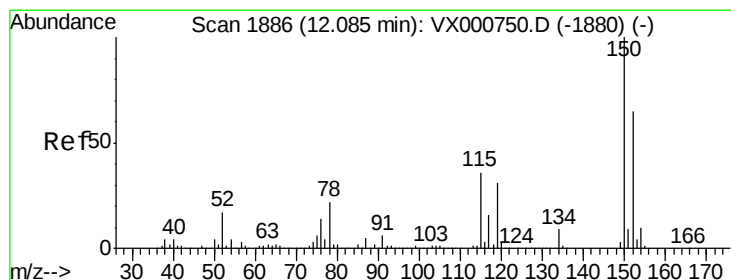
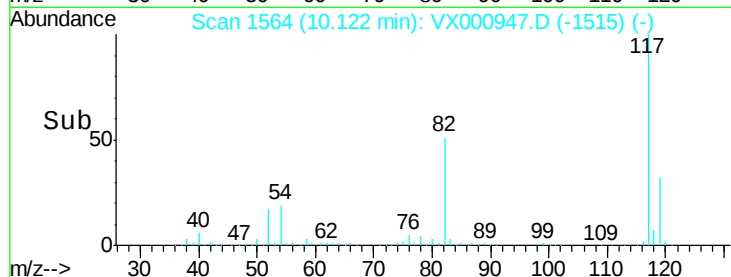
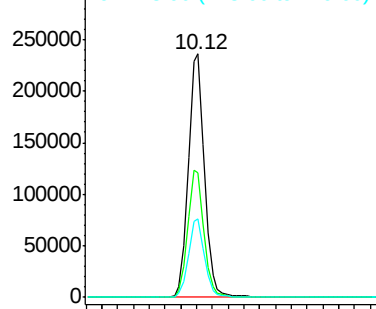
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.12 min Scan# 1564  
Delta R.T. -0.00 min  
Lab File: VX000947.D  
Acq: 17 Apr 2018 04:08

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion:117 Resp: 336633  
Ion Ratio Lower Upper  
117 100  
82 51.1 41.9 62.9  
119 32.4 26.0 39.0

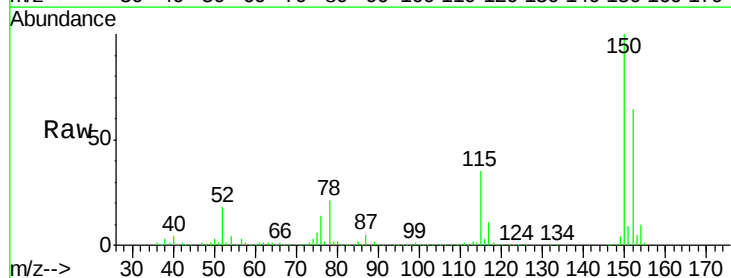


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX  
Ion 118.90 (118.60 to 119.60): V

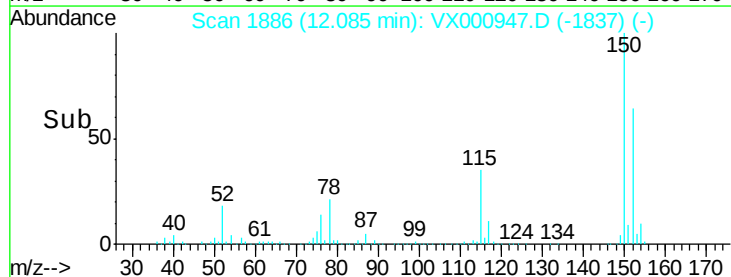
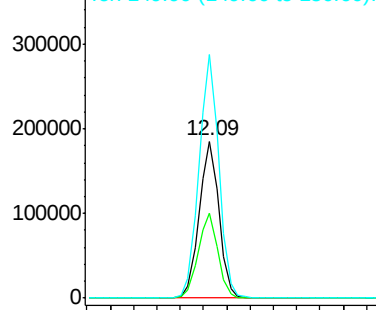


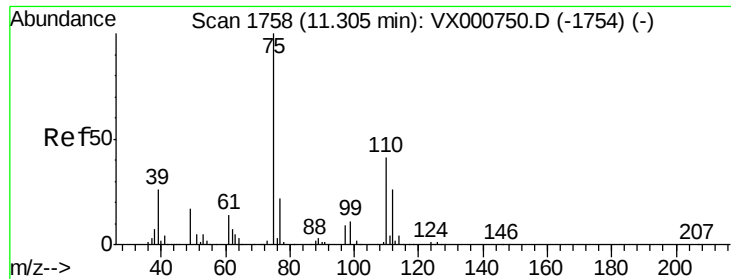
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.09 min Scan# 1886  
Delta R.T. -0.00 min  
Lab File: VX000947.D  
Acq: 17 Apr 2018 04:08

Tgt Ion:152 Resp: 218014  
Ion Ratio Lower Upper  
152 100  
115 53.8 37.9 113.7  
150 155.9 0.0 348.0



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: 25.456 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.16 min

Lab File: VX000947.D

Acq: 17 Apr 2018 04:08

Instrument :

MSVOA\_X

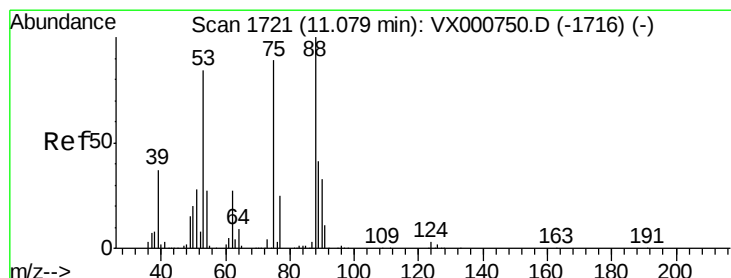
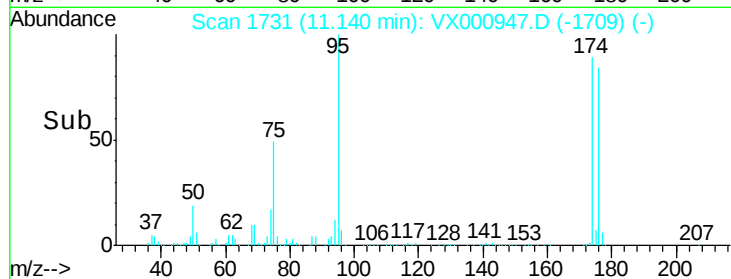
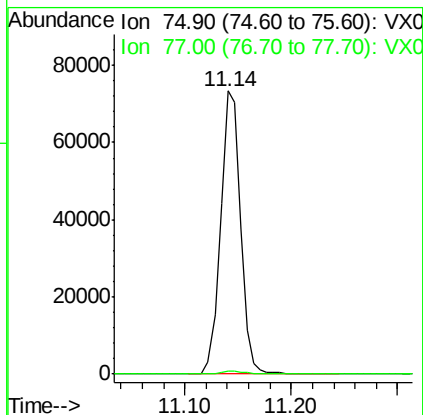
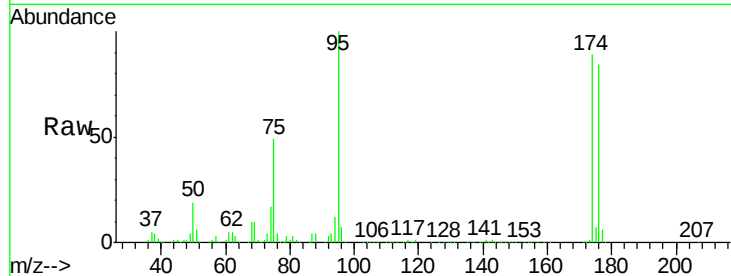
ClientSampled :

Tot Ion: 75 Resp: 95713

Ion Ratio Lower Upper

75 100

77 1.2 20.5 61.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 70.025 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.06 min

Lab File: VX000947.D

Acq: 17 Apr 2018 04:08

Tgt Ion: 75 Resp: 95713

Ion Ratio Lower Upper

75 100

53 0.0 75.4 113.0#

89 0.0 40.9 61.3#

