

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_X\DATA\WX030719\  
 Data File : VX007893.D  
 Acq On : 07 Mar 2019 19:24  
 Operator : JC/SP  
 Sample : K1793-15  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE108D1-20190306

Quant Time: Mar 08 04:45:15 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X030619W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 07 07:33:26 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 280402   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 439704   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 414686   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 196108   | 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   | 157427   | 53.22 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.44% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 145697   | 51.80 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.60% |          |
| 50) Toluene-d8              | 8.71  | 98   | 533696   | 51.67 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.34% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 195130   | 53.88 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.76% |          |

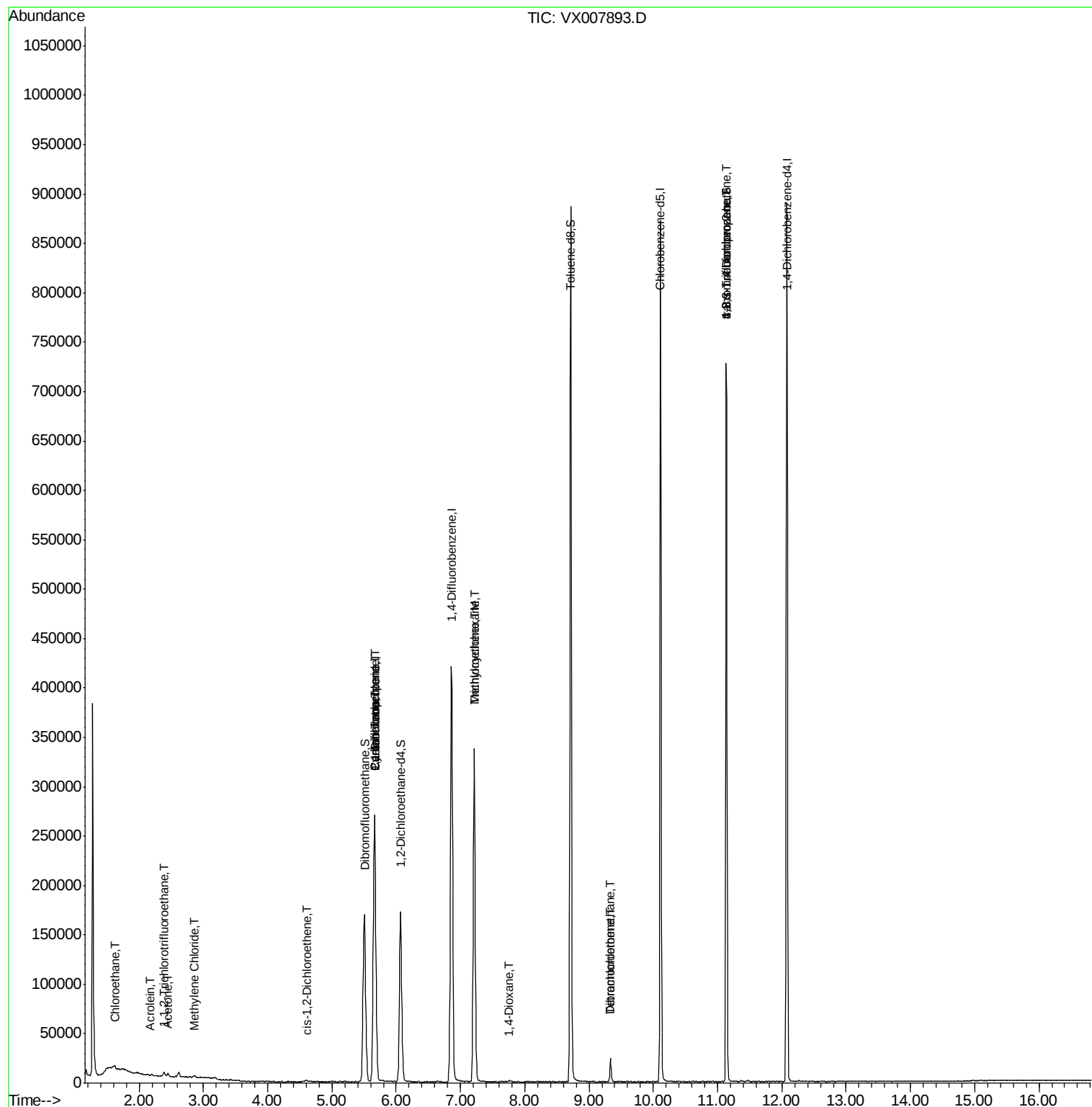
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.65  | 94   | 209      | Below Cal | #      | 57     |
| 6) Chloroethane                | 1.64  | 64   | 2076     | 1.019     | ug/l # | 48     |
| 9) 1,1,2-Trichlorotrifluoroet  | 2.39  | 101  | 1388     | 0.561     | ug/l   | 98     |
| 13) Acrolein                   | 2.18  | 56   | 19       | 1.592     | ug/l # | 29     |
| 16) Acetone                    | 2.45  | 43   | 2758     | 1.611     | ug/l # | 88     |
| 17) Carbon Disulfide           | 2.57  | 76   | 615      | Below Cal | #      | 42     |
| 20) Methylene Chloride         | 2.85  | 84   | 772      | 0.283     | ug/l # | 89     |
| 27) cis-1,2-Dichloroethene     | 4.60  | 96   | 1013     | 0.337     | ug/l   | 59     |
| 31) Cyclohexane                | 5.67  | 56   | 4358     | 0.959     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 17799    | 4.471     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 24319    | 6.434     | ug/l # | 17     |
| 39) Methylcyclohexane          | 7.21  | 83   | 1596     | 0.331     | ug/l # | 1      |
| 44) Trichloroethene            | 7.21  | 130  | 136514   | 41.793    | ug/l   | 99     |
| 49) 1,4-Dioxane                | 7.76  | 88   | 913      | 12.089    | ug/l   | 93     |
| 60) Dibromochloromethane       | 9.34  | 129  | 4167     | 1.361     | ug/l # | 11     |
| 64) Tetrachloroethene          | 9.34  | 164  | 4904     | 1.427     | ug/l   | 96     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 89058    | 21.641    | ug/l # | 39     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 89058    | 69.177    | ug/l # | 11     |

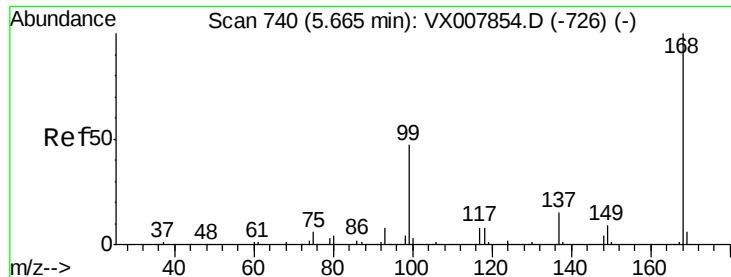
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_X\DATA\VX030719\  
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Quant Title : SW846 8260  
QLast Update : Thu Mar 07 07:33:26 2019  
Response via : Initial Calibration

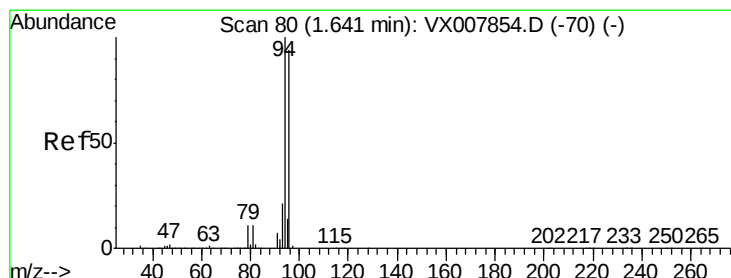
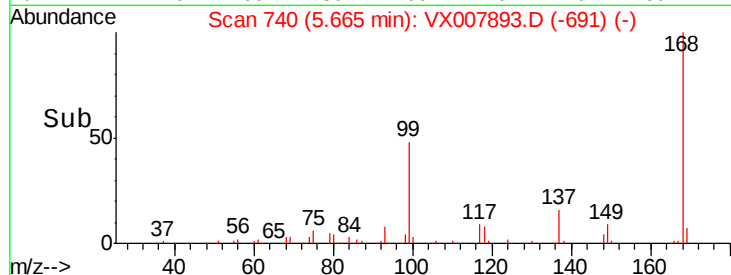
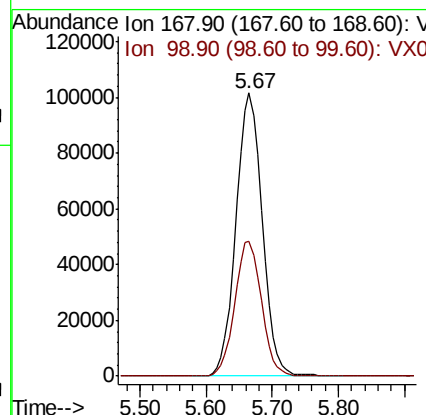
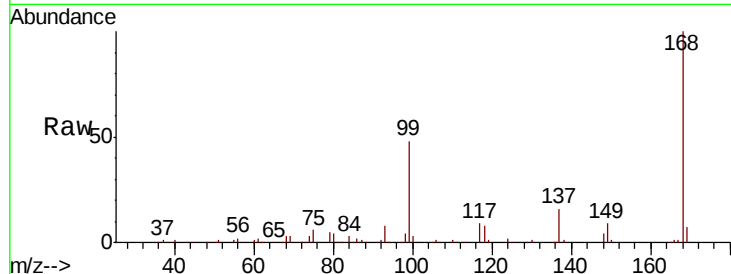




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.67 min Scan# 740  
Delta R.T. 0.00 min  
Lab File: VX007893.D  
Acq: 07 Mar 2019 19:24

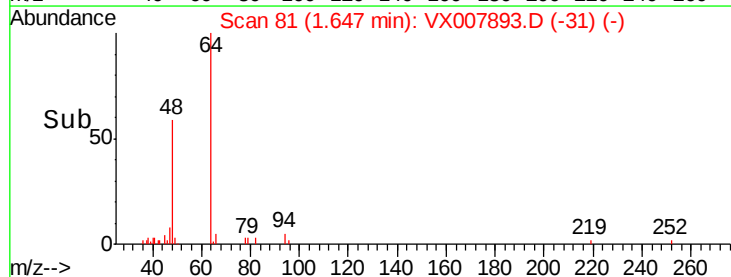
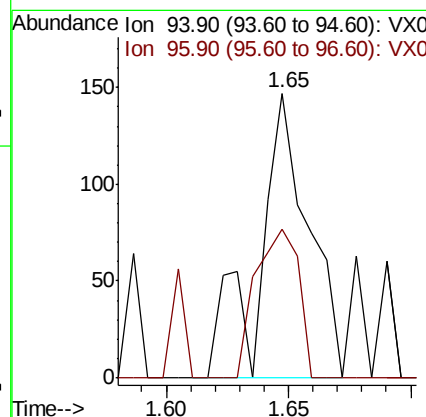
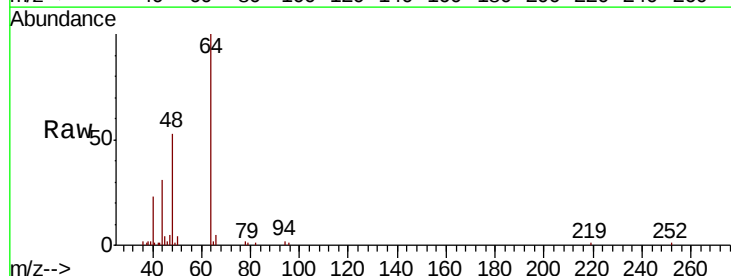
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D1-20190306

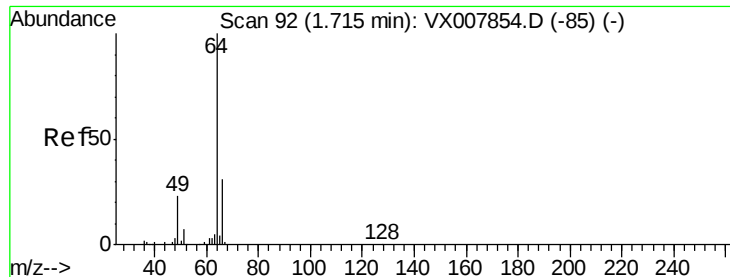
Tgt Ion: 168 Resp: 280402  
Ion Ratio Lower Upper  
168 100  
99 47.7 37.6 56.4



#5  
Bromomethane  
Concen: Below Cal  
RT: 1.65 min Scan# 81  
Delta R.T. 0.01 min  
Lab File: VX007893.D  
Acq: 07 Mar 2019 19:24

Tgt Ion: 94 Resp: 209  
Ion Ratio Lower Upper  
94 100  
96 52.4 75.5 113.3#





#6

Chloroethane

Concen: 1.019 ug/l

RT: 1.64 min Scan# 79

Delta R.T. -0.08 min

Lab File: VX007893.D

Acq: 07 Mar 2019 19:24

Instrument :

MSVOA\_X

ClientSampleId :

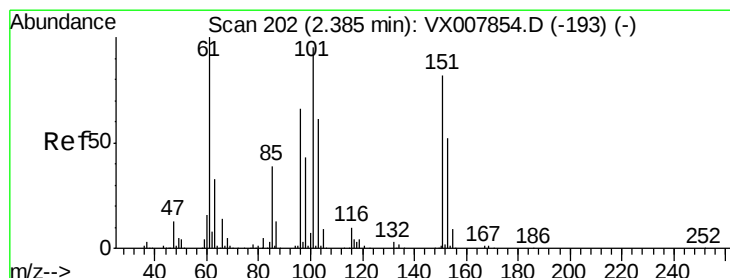
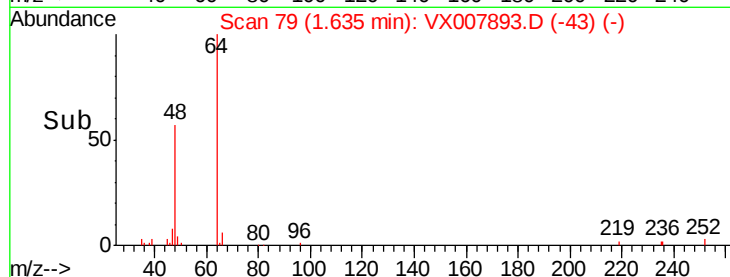
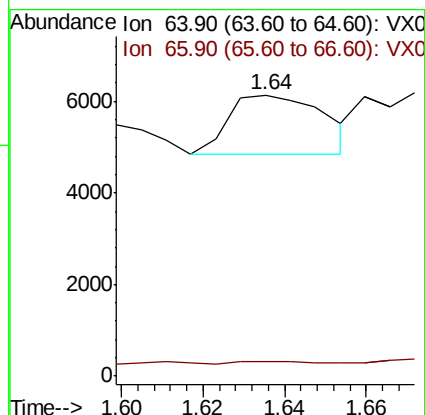
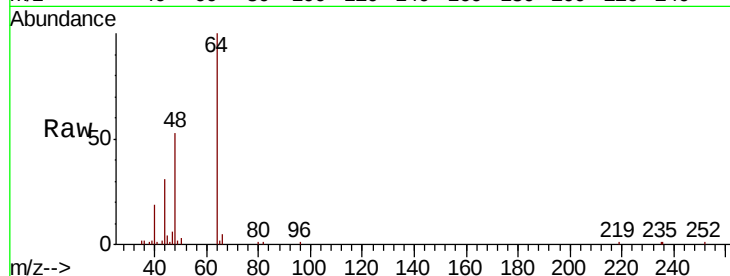
RE108D1-20190306

Tgt Ion: 64 Resp: 2076

Ion Ratio Lower Upper

64 100

66 3.0 25.2 37.8#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.561 ug/l

RT: 2.39 min Scan# 203

Delta R.T. 0.01 min

Lab File: VX007893.D

Acq: 07 Mar 2019 19:24

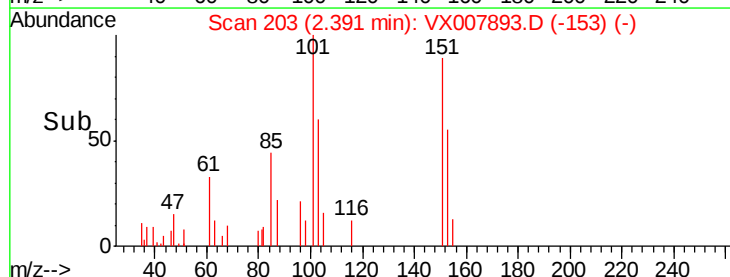
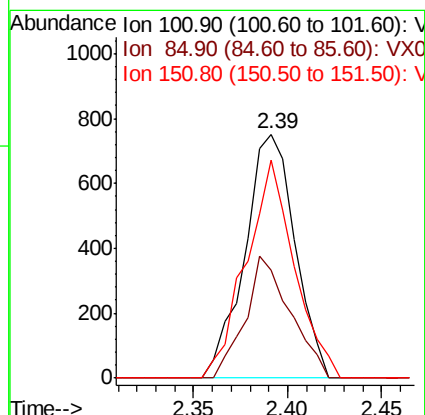
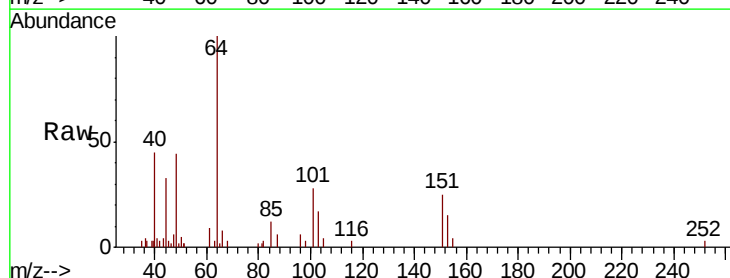
Tgt Ion: 101 Resp: 1388

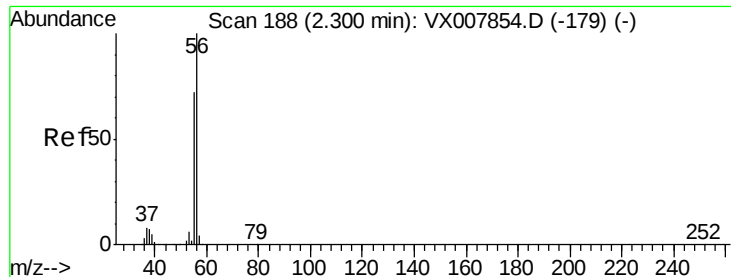
Ion Ratio Lower Upper

101 100

85 44.8 33.8 50.6

151 86.0 69.1 103.7





#13

Acrolein

Concen: 1.592 ug/l

RT: 2.18 min Scan# 168

Delta R.T. -0.12 min

Lab File: VX007893.D

Acq: 07 Mar 2019 19:24

Instrument :

MSVOA\_X

ClientSampleId :

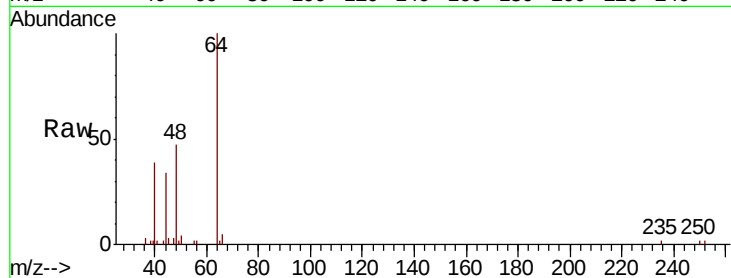
RE108D1-20190306

Tgt Ion: 56 Resp: 19

Ion Ratio Lower Upper

56 100

55 131.6 57.8 86.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

80

60

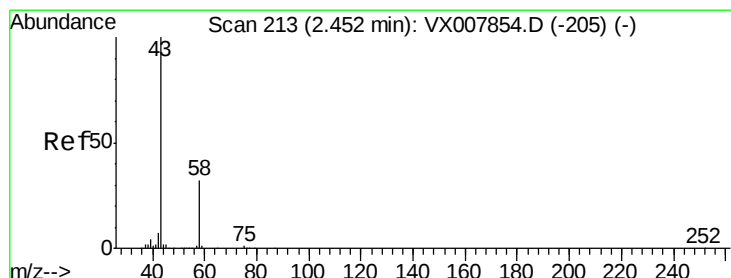
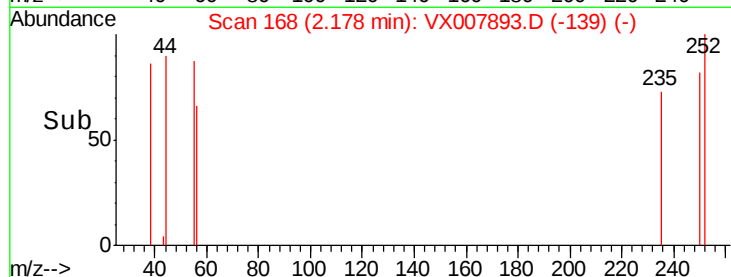
40

20

0

2.16 2.17 2.18 2.19

Time-->



#16

Acetone

Concen: 1.611 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.01 min

Lab File: VX007893.D

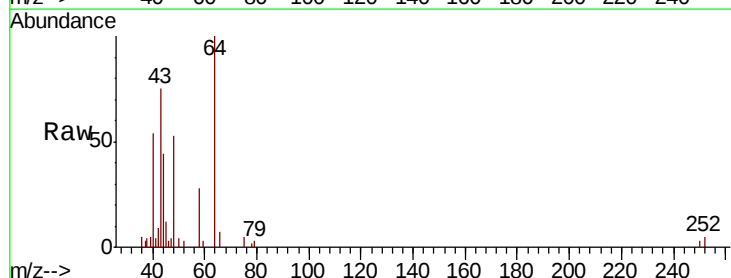
Acq: 07 Mar 2019 19:24

Tgt Ion: 43 Resp: 2758

Ion Ratio Lower Upper

43 100

58 38.6 25.5 38.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2000

1500

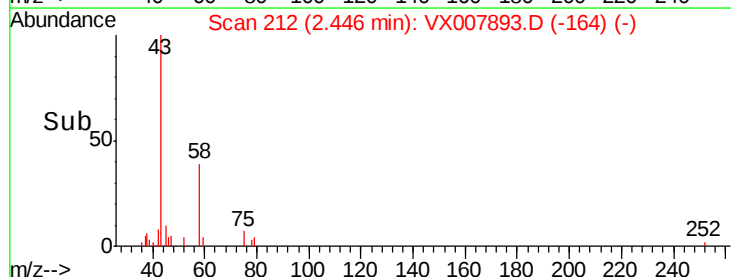
1000

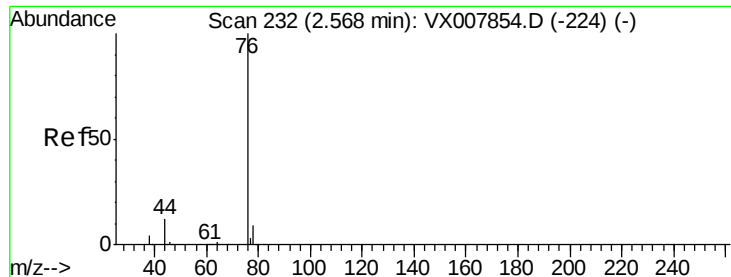
500

0

2.40 2.45 2.50

Time-->

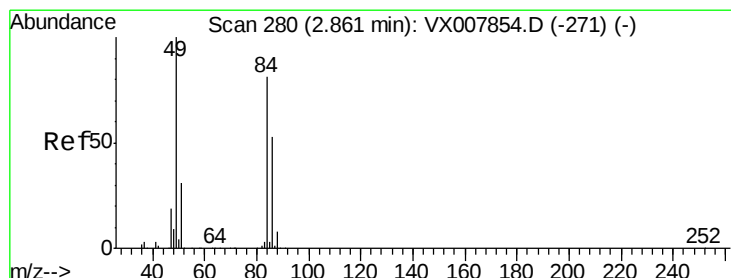
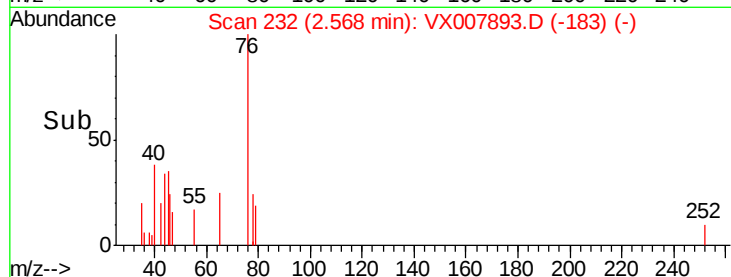
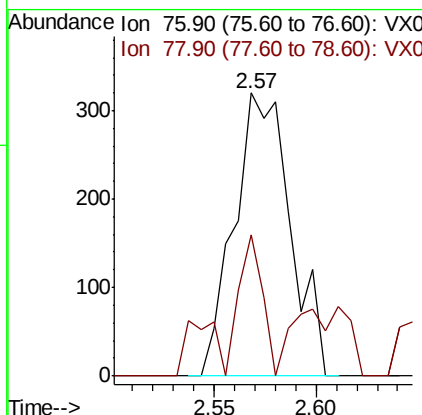
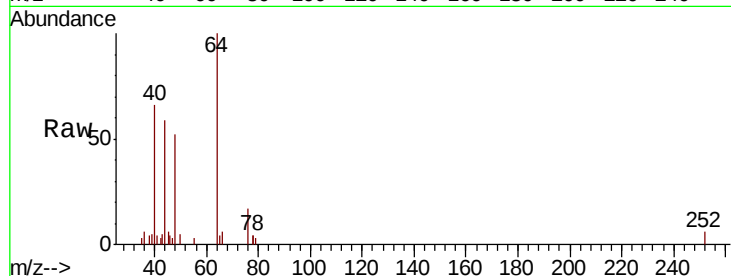




#17  
Carbon Disulfide  
Concen: Below Cal  
RT: 2.57 min Scan# 232  
Delta R.T. 0.00 min  
Lab File: VX007893.D  
Acq: 07 Mar 2019 19:24

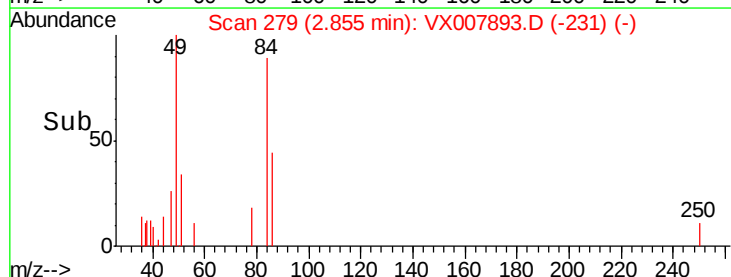
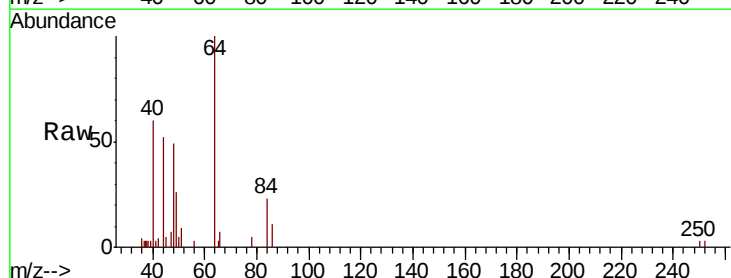
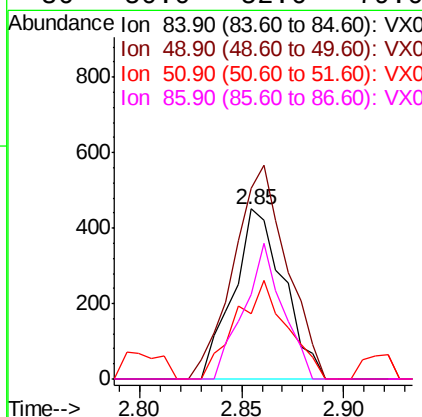
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D1-20190306

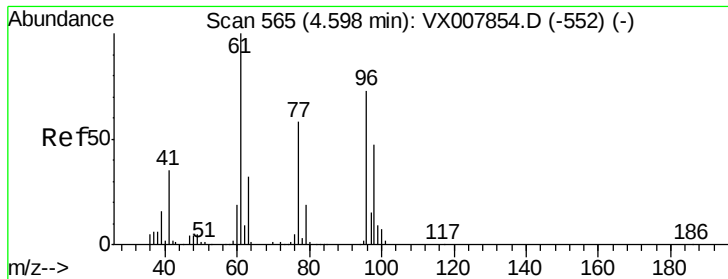
Tgt Ion: 76 Resp: 615  
Ion Ratio Lower Upper  
76 100  
78 30.0 7.2 10.8#



#20  
Methylene Chloride  
Concen: 0.283 ug/l  
RT: 2.85 min Scan# 279  
Delta R.T. -0.01 min  
Lab File: VX007893.D  
Acq: 07 Mar 2019 19:24

Tgt Ion: 84 Resp: 772  
Ion Ratio Lower Upper  
84 100  
49 112.7 99.3 148.9  
51 38.2 31.3 46.9  
86 50.0 52.6 79.0#



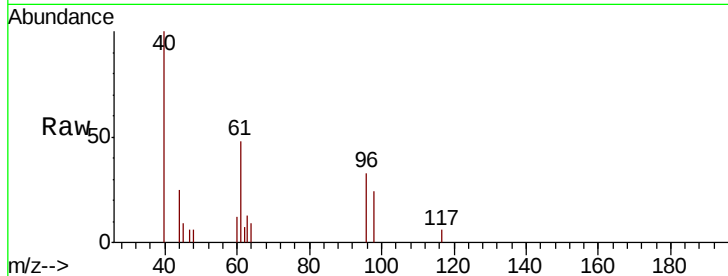


#27

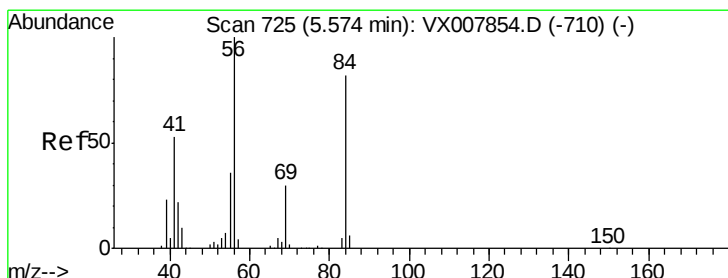
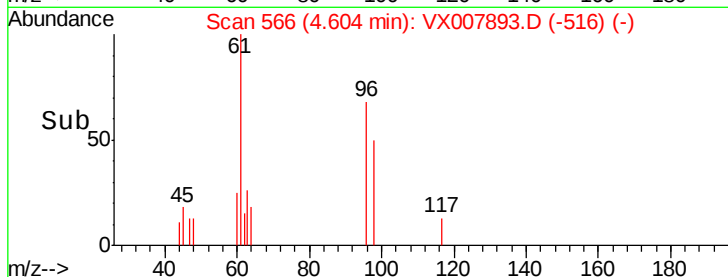
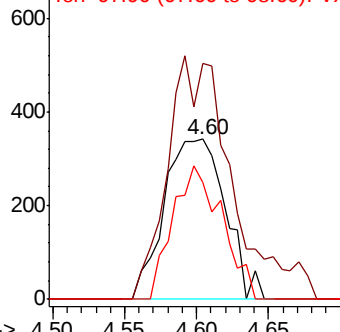
cis-1,2-Dichloroethene  
 Concen: 0.337 ug/l  
 RT: 4.60 min Scan# 566  
 Delta R.T. 0.01 min  
 Lab File: VX007893.D  
 Acq: 07 Mar 2019 19:24

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE108D1-20190306

Tgt Ion: 96 Resp: 1013  
 Ion Ratio Lower Upper  
 96 100  
 61 71.9 0.0 288.0  
 98 66.7 0.0 129.0



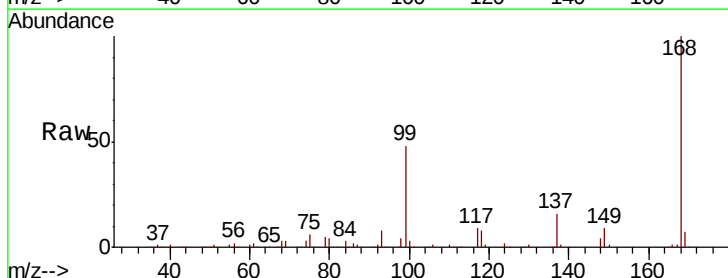
Abundance Ion 95.90 (95.60 to 96.60): VX0  
 Ion 60.90 (60.60 to 61.60): VX0  
 Ion 97.90 (97.60 to 98.60): VX0



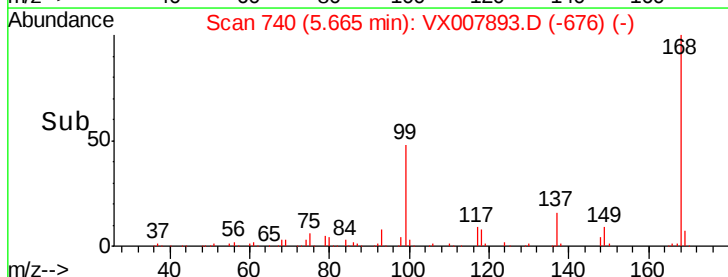
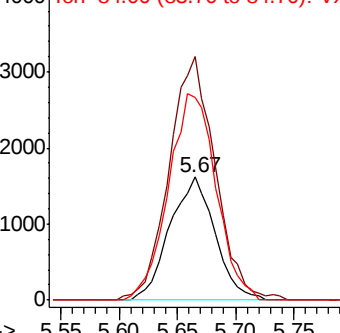
#31

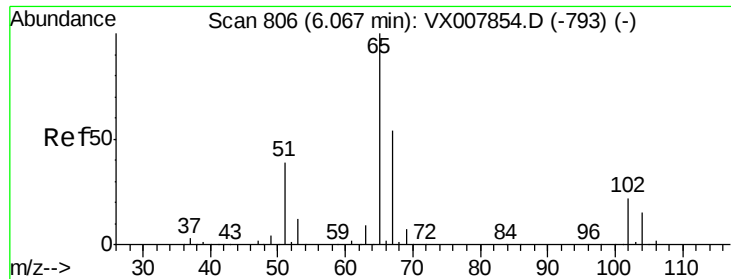
Cyclohexane  
 Concen: 0.959 ug/l  
 RT: 5.67 min Scan# 740  
 Delta R.T. 0.09 min  
 Lab File: VX007893.D  
 Acq: 07 Mar 2019 19:24

Tgt Ion: 56 Resp: 4358  
 Ion Ratio Lower Upper  
 56 100  
 69 194.8 24.0 36.0#  
 84 165.4 65.3 97.9#



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: 53.221 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007893.D

Acq: 07 Mar 2019 19:24

Instrument :

MSVOA\_X

ClientSampleId :

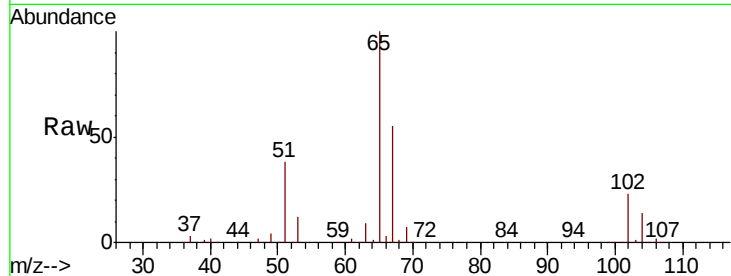
RE108D1-20190306

Tgt Ion: 65 Resp: 157427

Ion Ratio Lower Upper

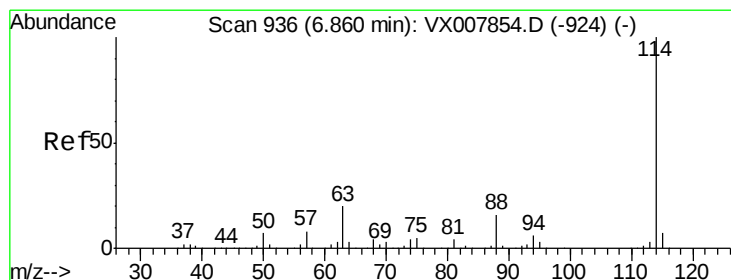
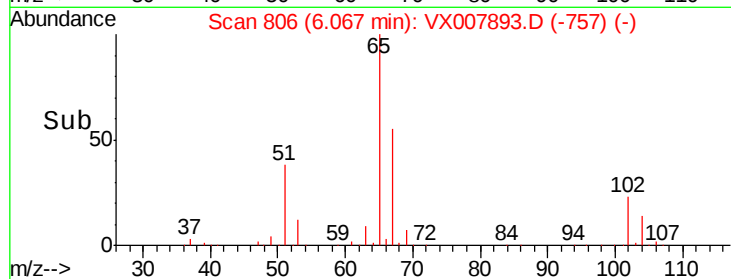
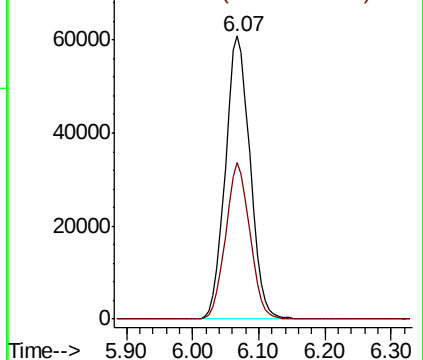
65 100

67 54.2 0.0 110.0



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: VX007893.D

Acq: 07 Mar 2019 19:24

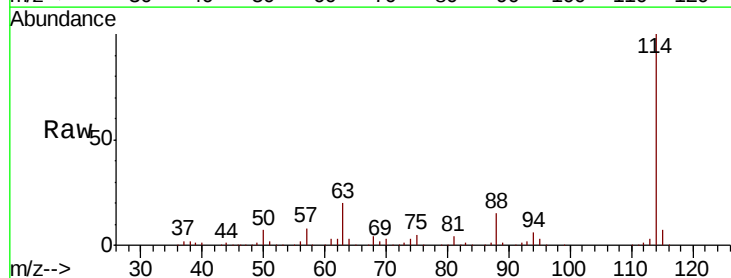
Tgt Ion: 114 Resp: 439704

Ion Ratio Lower Upper

114 100

63 19.6 0.0 39.8

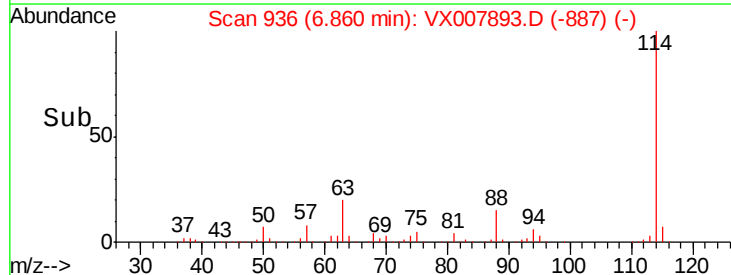
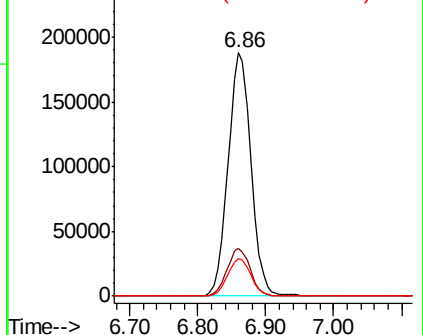
88 15.4 0.0 31.4

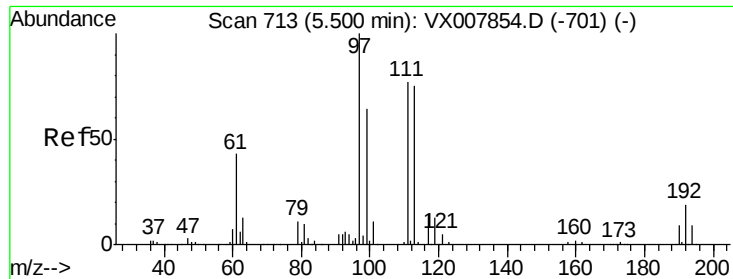


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 51.801 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX007893.D

Acq: 07 Mar 2019 19:24

Instrument :

MSVOA\_X

ClientSampleId :

RE108D1-20190306

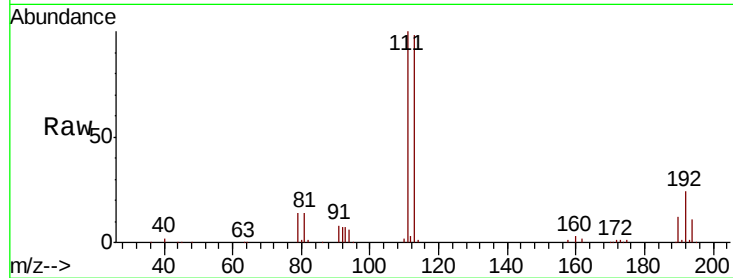
Tgt Ion:113 Resp: 145697

Ion Ratio Lower Upper

113 100

111 102.5 81.4 122.0

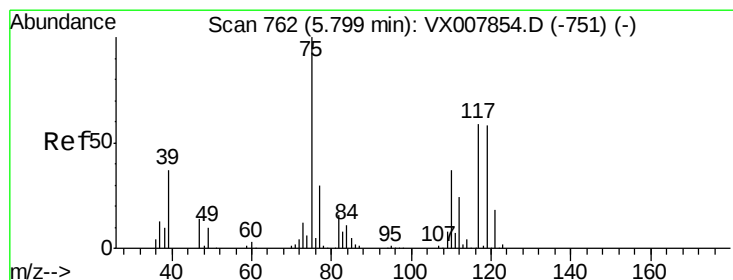
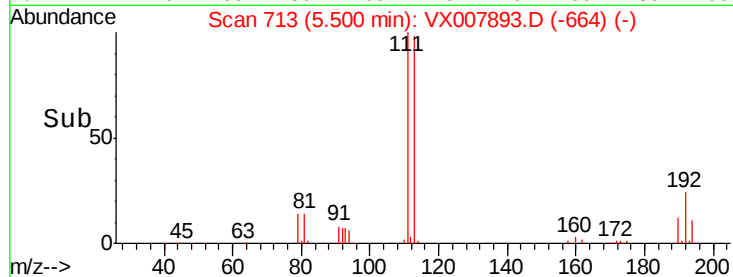
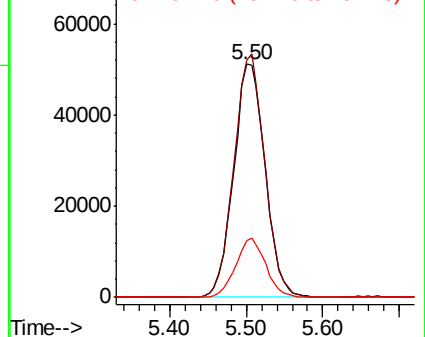
192 24.2 19.4 29.0



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: 4.471 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007893.D

Acq: 07 Mar 2019 19:24

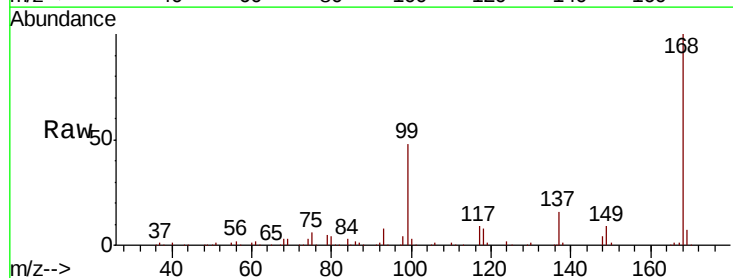
Tgt Ion: 75 Resp: 17799

Ion Ratio Lower Upper

75 100

110 8.6 18.4 55.0#

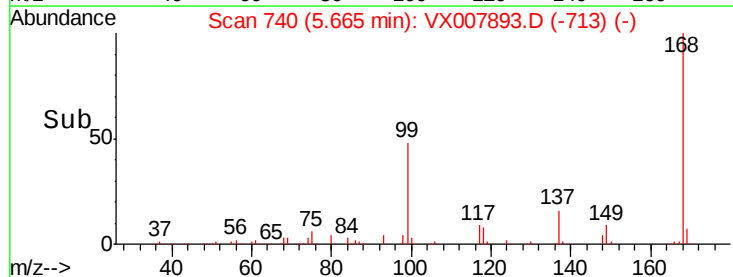
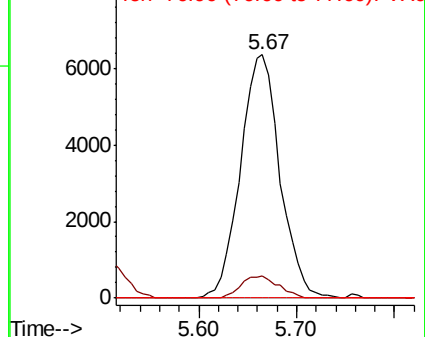
77 0.0 25.0 37.4#

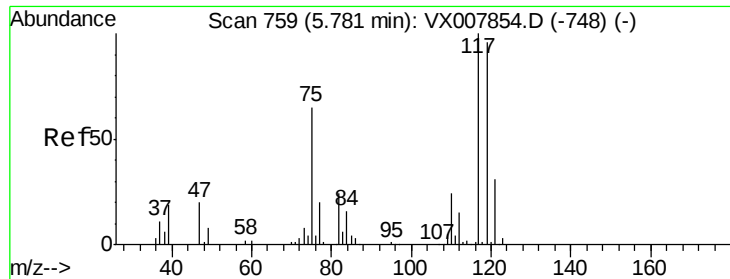


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.434 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007893.D

Acq: 07 Mar 2019 19:24

Instrument :

MSVOA\_X

ClientSampleId :

RE108D1-20190306

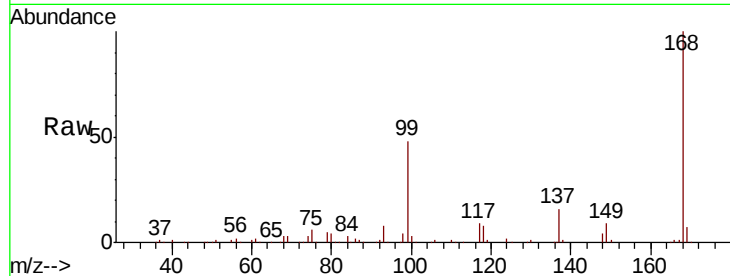
Tgt Ion:117 Resp: 24319

Ion Ratio Lower Upper

117 100

119 5.9 76.2 114.2#

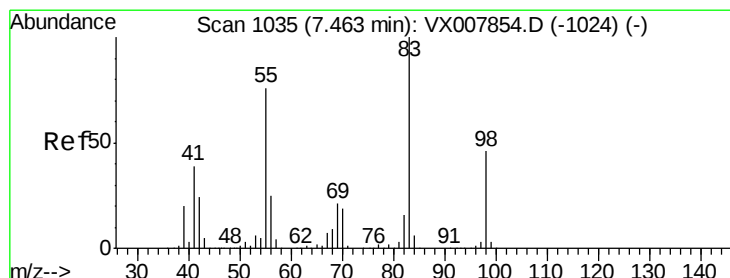
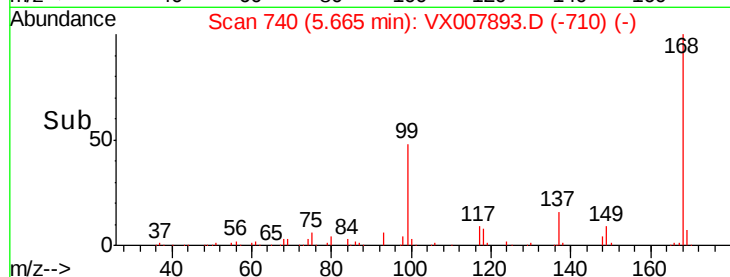
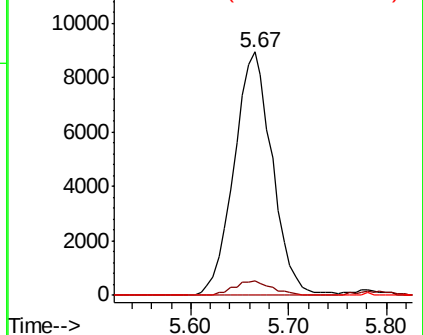
121 0.0 24.6 36.8#



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



#39

Methylcyclohexane

Concen: 0.331 ug/l

RT: 7.21 min Scan# 993

Delta R.T. -0.26 min

Lab File: VX007893.D

Acq: 07 Mar 2019 19:24

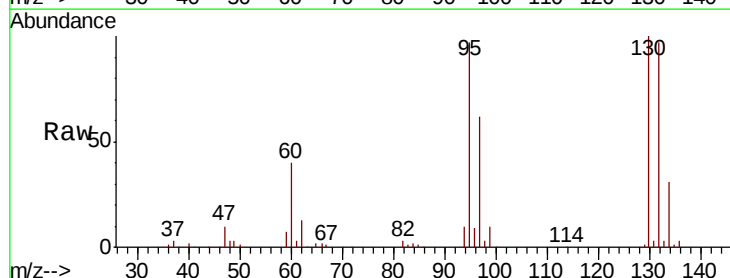
Tgt Ion: 83 Resp: 1596

Ion Ratio Lower Upper

83 100

55 0.0 60.4 90.6#

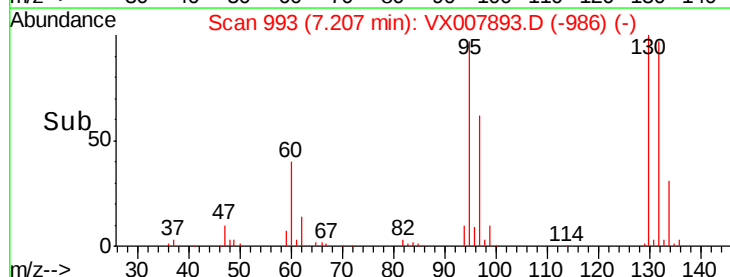
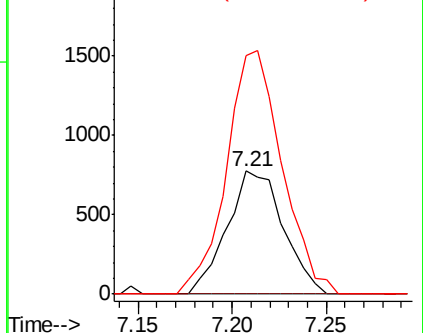
98 193.9 36.5 54.7#

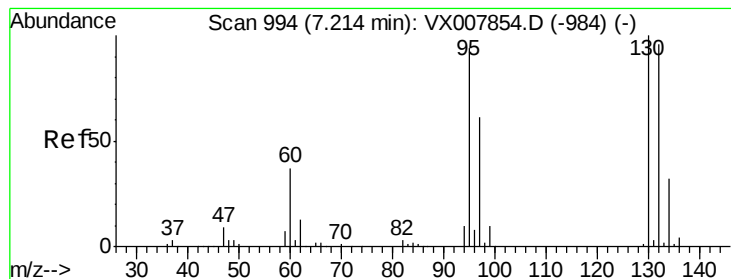


Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0





#44

Trichloroethene

Concen: 41.793 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX007893.D

Acq: 07 Mar 2019 19:24

Instrument :

MSVOA\_X

ClientSampleId :

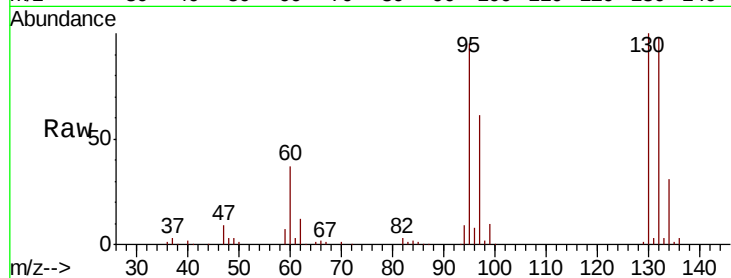
RE108D1-20190306

Tgt Ion:130 Resp: 136514

Ion Ratio Lower Upper

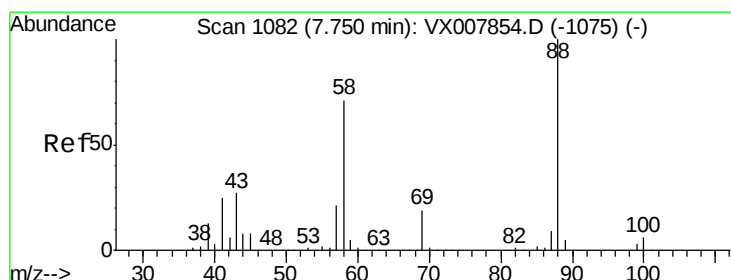
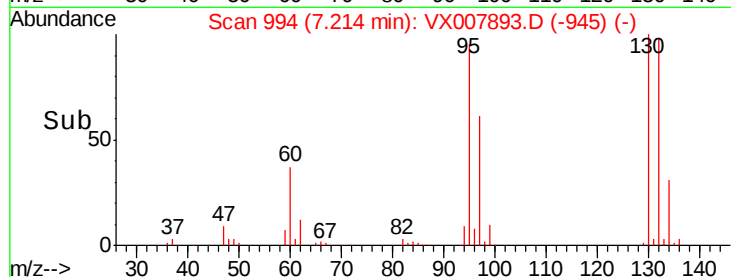
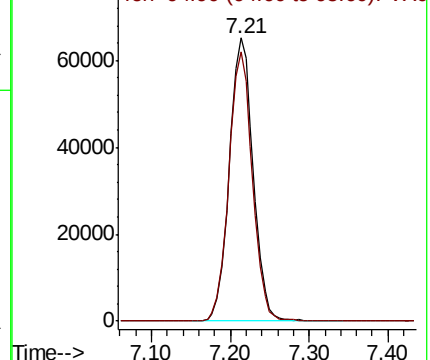
130 100

95 95.1 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 12.089 ug/l

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX007893.D

Acq: 07 Mar 2019 19:24

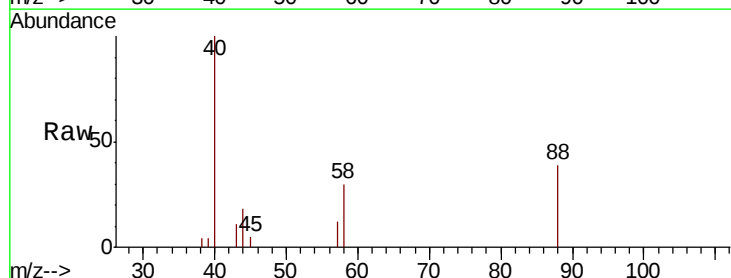
Tgt Ion: 88 Resp: 913

Ion Ratio Lower Upper

88 100

43 34.6 25.1 37.7

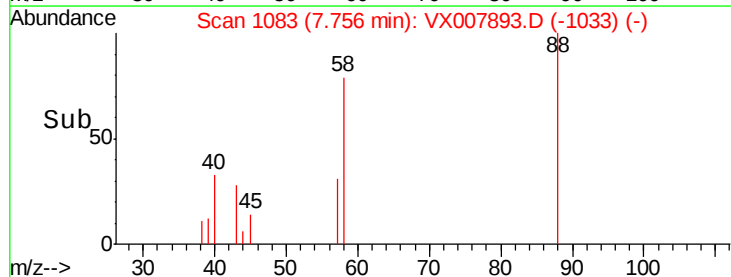
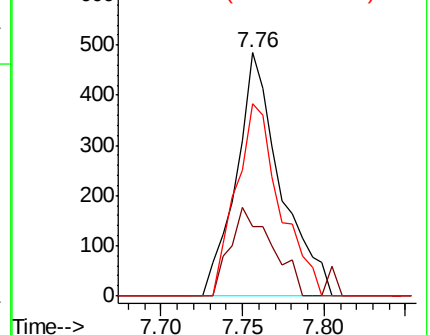
58 78.4 57.8 86.6

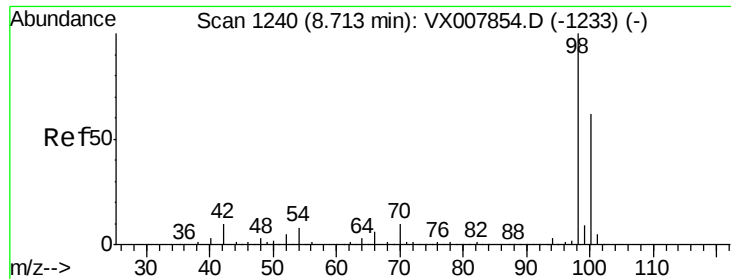


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

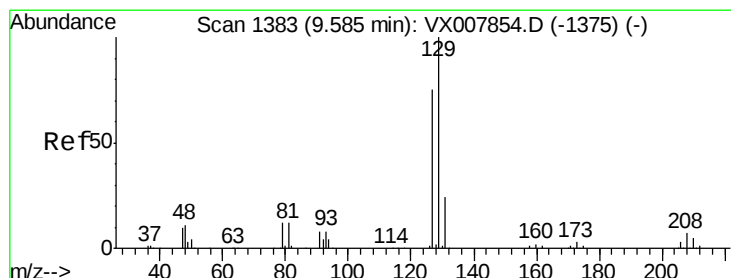
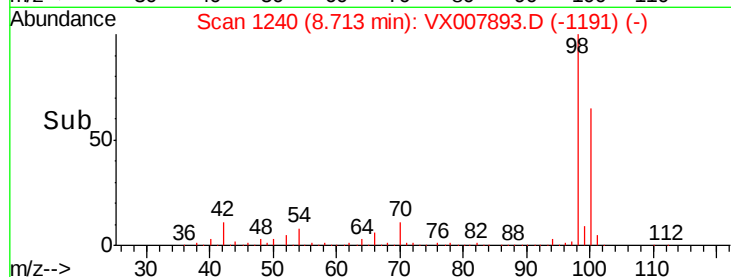
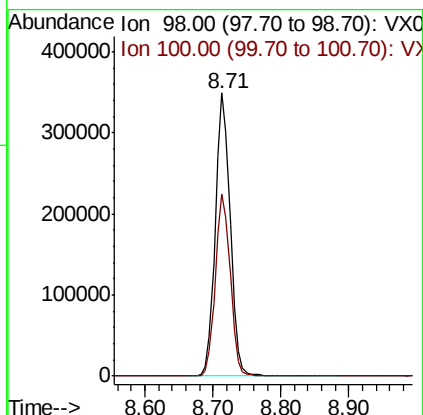
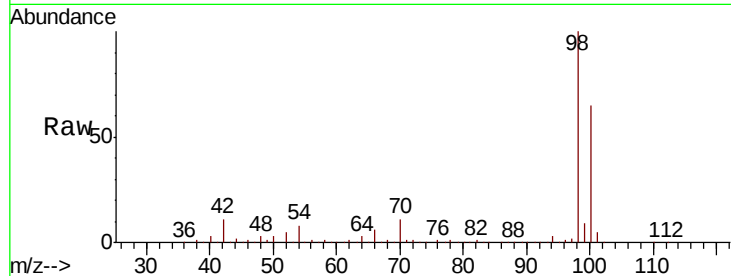




#50  
Toluene-d8  
Concen: 51.667 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX007893.D  
Acq: 07 Mar 2019 19:24

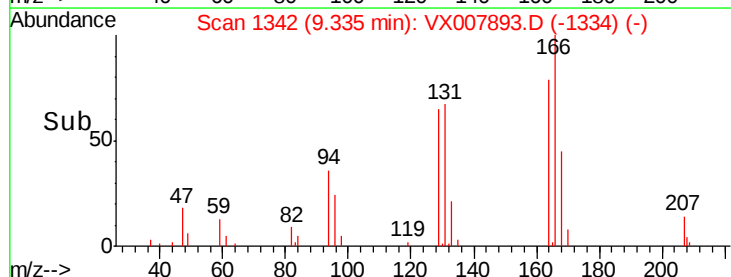
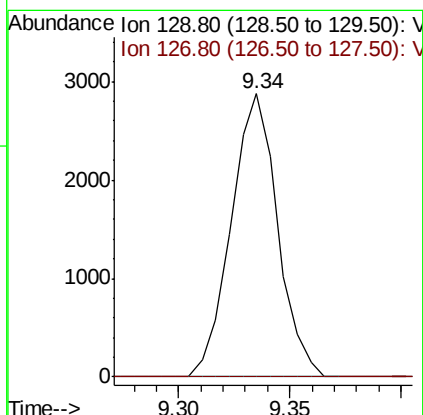
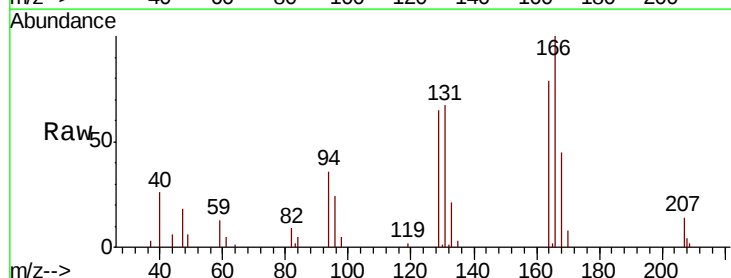
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE108D1-20190306

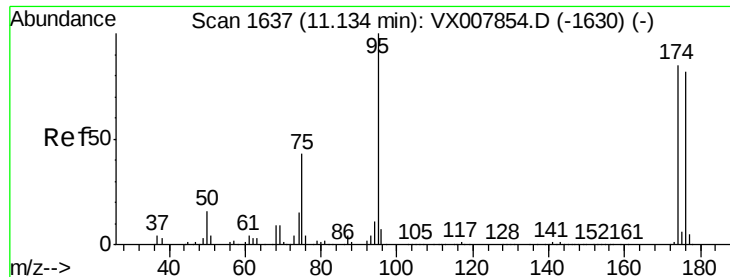
Tgt Ion: 98 Resp: 533696  
Ion Ratio Lower Upper  
98 100  
100 64.6 51.7 77.5



#60  
Dibromochloromethane  
Concen: 1.361 ug/l  
RT: 9.34 min Scan# 1342  
Delta R.T. -0.25 min  
Lab File: VX007893.D  
Acq: 07 Mar 2019 19:24

Tgt Ion: 129 Resp: 4167  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.3 114.8#





#62

4-Bromofluorobenzene

Concen: 53.880 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007893.D

Acq: 07 Mar 2019 19:24

Instrument :

MSVOA\_X

ClientSampleId :

RE108D1-20190306

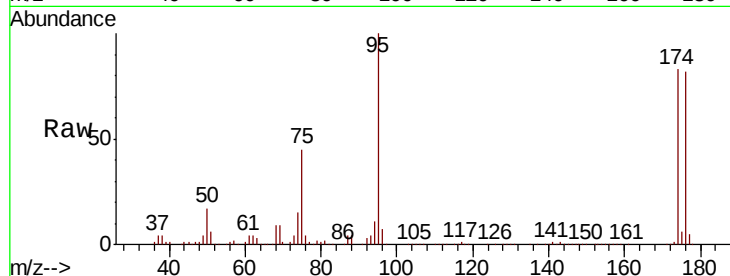
Tgt Ion: 95 Resp: 195130

Ion Ratio Lower Upper

95 100

174 90.7 0.0 182.8

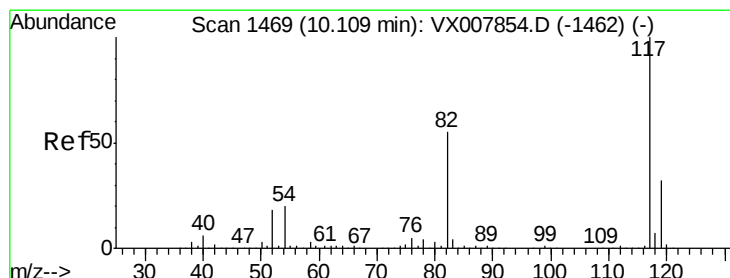
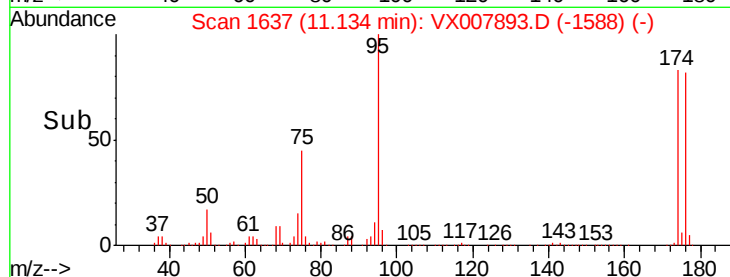
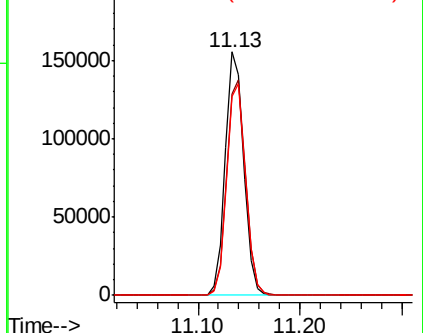
176 88.2 0.0 178.0



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: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX007893.D

Acq: 07 Mar 2019 19:24

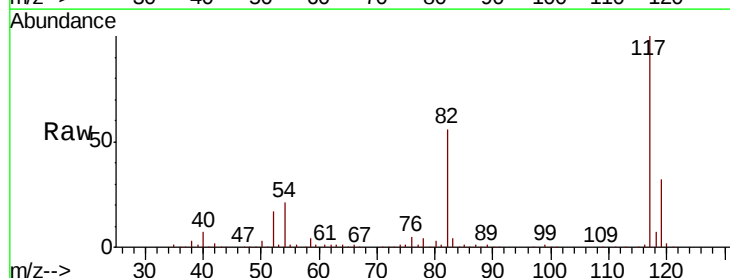
Tgt Ion: 117 Resp: 414686

Ion Ratio Lower Upper

117 100

82 55.6 44.3 66.5

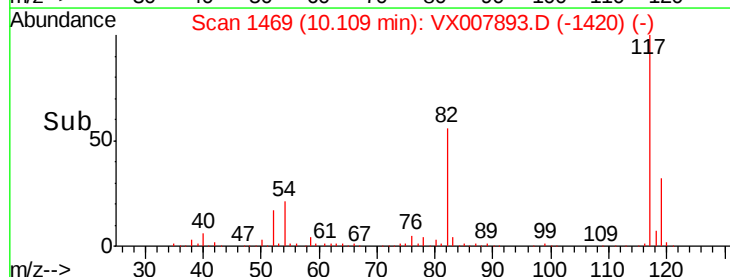
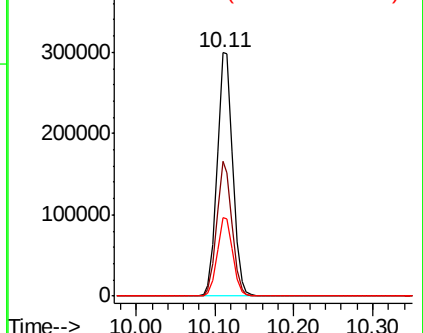
119 32.0 25.3 37.9

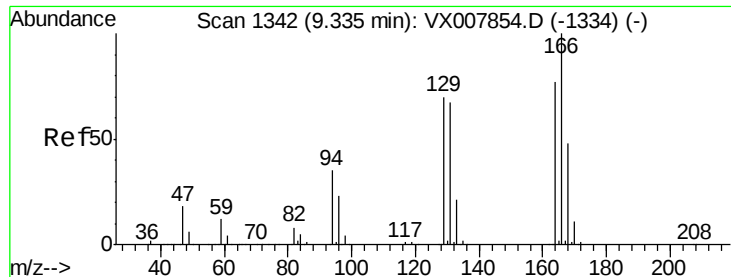


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 1.427 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VX007893.D

Acq: 07 Mar 2019 19:24

Instrument :

MSVOA\_X

ClientSampleId :

RE108D1-20190306

Tgt Ion:164 Resp: 4904

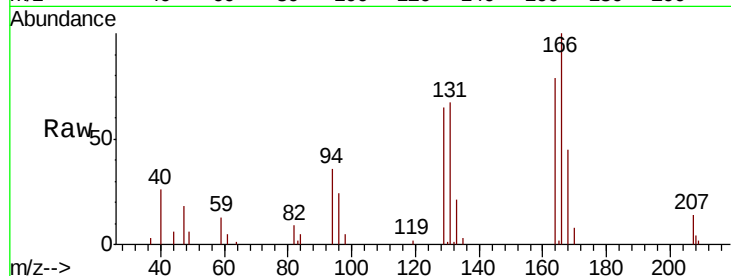
Ion Ratio Lower Upper

164 100

166 126.7 103.4 155.0

129 82.7 72.2 108.4

131 84.8 69.4 104.2

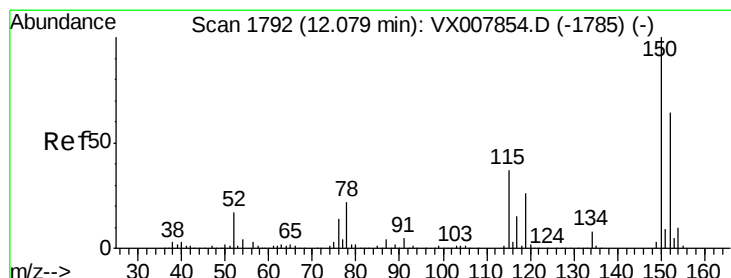
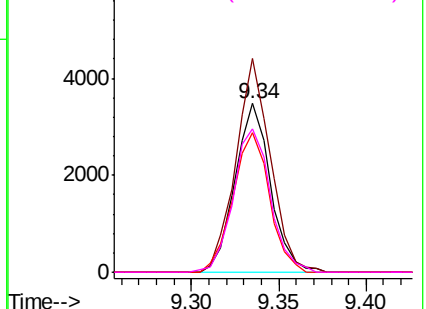
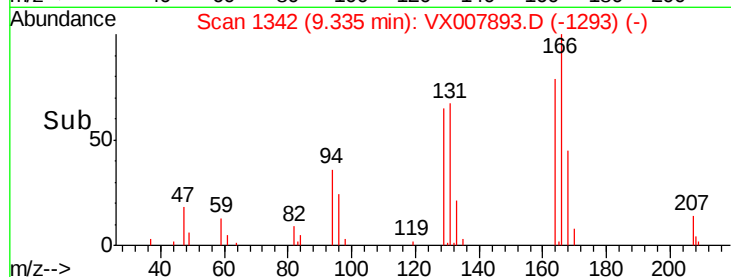


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX007893.D

Acq: 07 Mar 2019 19:24

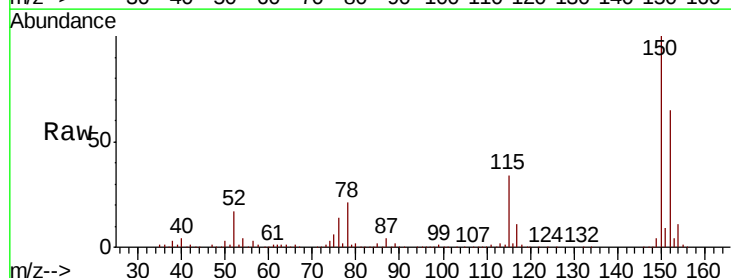
Tgt Ion:152 Resp: 196108

Ion Ratio Lower Upper

152 100

115 55.3 38.6 115.7

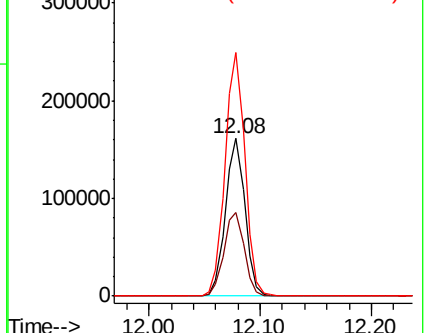
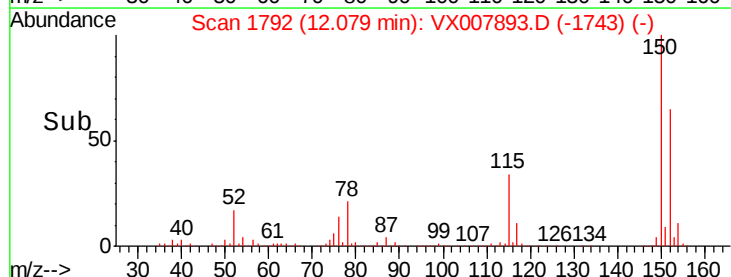
150 157.2 0.0 348.4

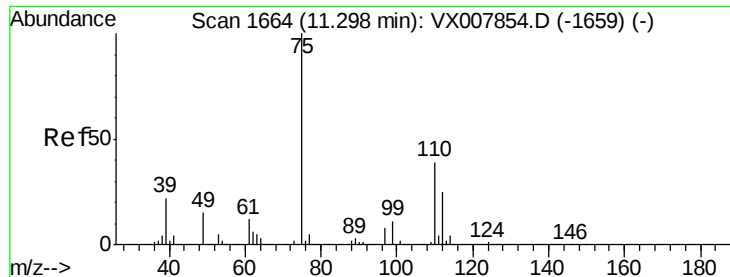


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 21.641 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007893.D

Acq: 07 Mar 2019 19:24

Instrument :

MSVOA\_X

ClientSampleId :

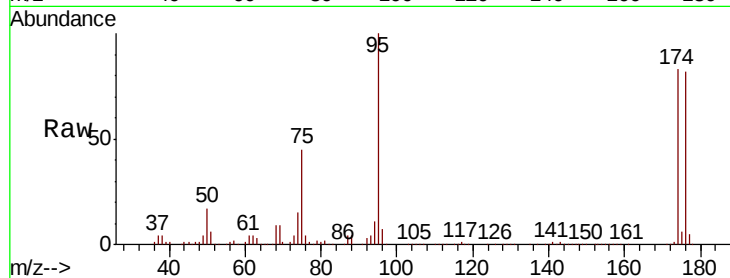
RE108D1-20190306

Tgt Ion: 75 Resp: 89058

Ion Ratio Lower Upper

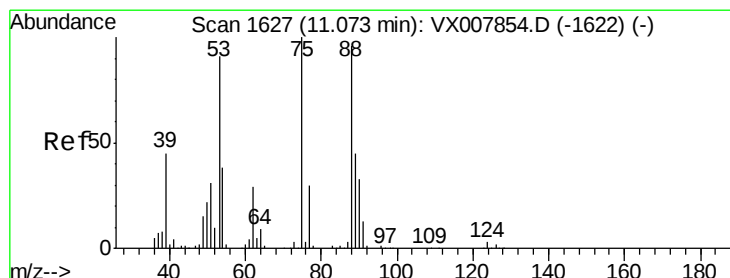
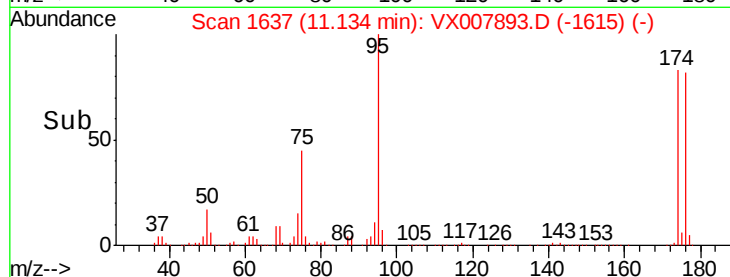
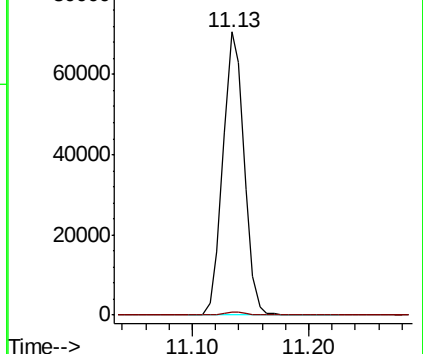
75 100

77 1.3 18.9 56.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 69.177 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007893.D

Acq: 07 Mar 2019 19:24

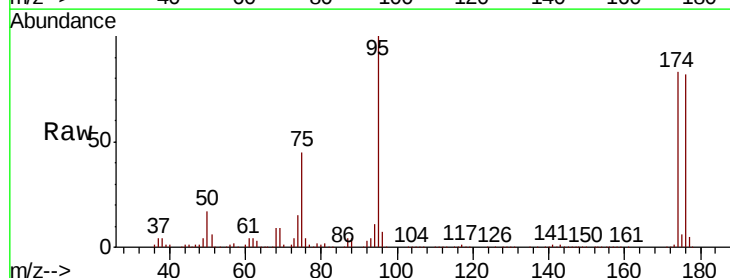
Tgt Ion: 75 Resp: 89058

Ion Ratio Lower Upper

75 100

53 0.1 76.1 114.1#

89 0.0 36.3 54.5#



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

