

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX040819\  
 Data File : VX008743.D  
 Acq On : 08 Apr 2019 14:27  
 Operator : JC/SP  
 Sample : IBLK  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 IBLK

Quant Time: Apr 09 06:44:18 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X040319W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 04 04:47:41 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 198861   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 334751   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.12 | 117  | 284855   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 118961   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |        |      |
|---------------------------|--------|-----|----------|-------|--------|------|
| 33) 1,2-Dichloroethane-d4 | 6.06   | 65  | 137276   | 47.33 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.66% |      |
| 35) Dibromofluoromethane  | 5.50   | 113 | 100221   | 46.83 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 93.66% |      |
| 50) Toluene-d8            | 8.71   | 98  | 415295   | 48.73 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.46% |      |
| 62) 4-Bromofluorobenzene  | 11.13  | 95  | 136517   | 45.17 | ug/l   | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 90.34% |      |

## Target Compounds

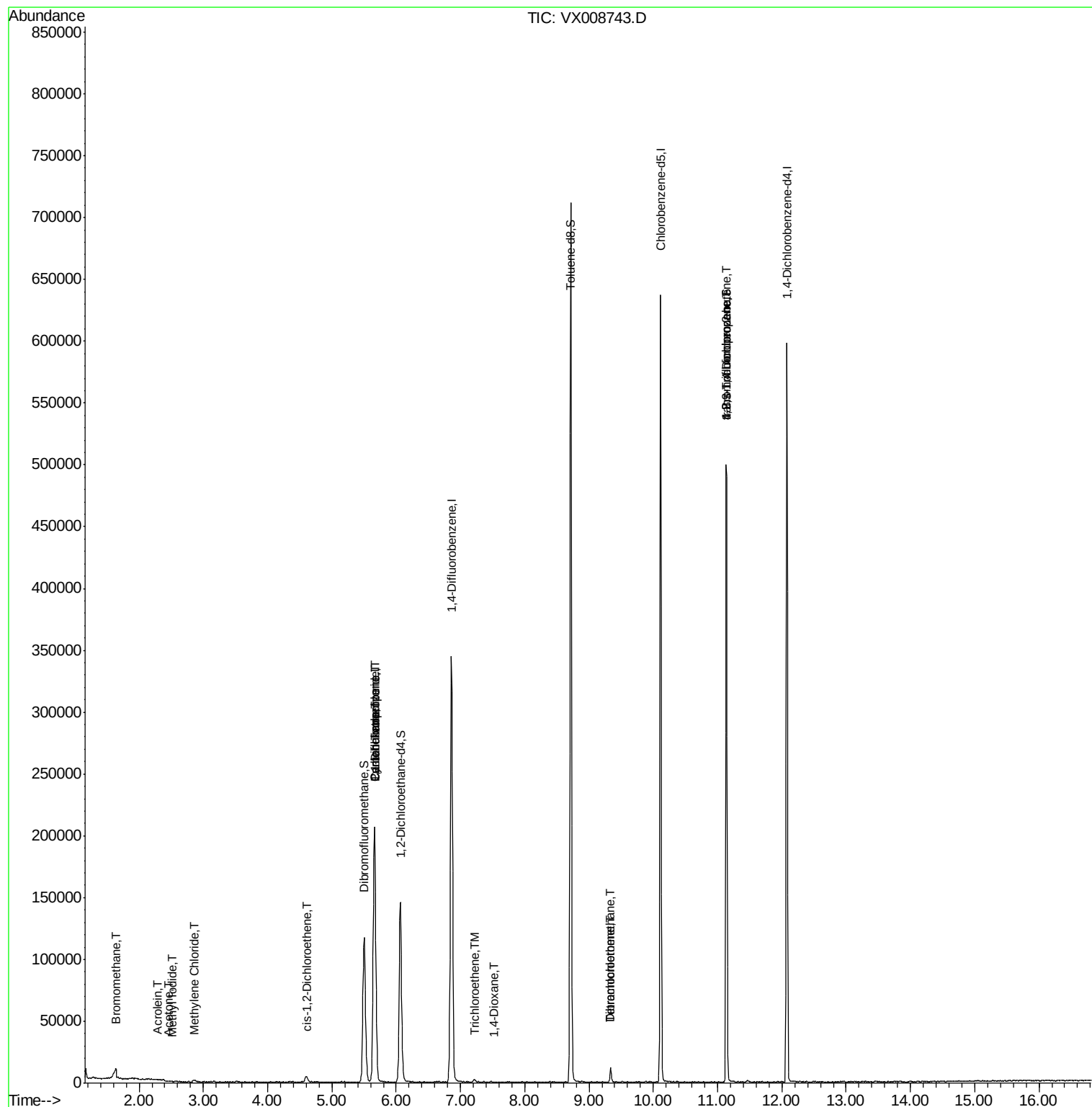
|                                |       |     |       |               | Qvalue |
|--------------------------------|-------|-----|-------|---------------|--------|
| 3) Chloromethane               | 1.32  | 50  | 431   | Below Cal     | 98     |
| 5) Bromomethane                | 1.64  | 94  | 331   | 2.094 ug/l    | 91     |
| 6) Chloroethane                | 1.71  | 64  | 219   | Below Cal #   | 43     |
| 10) Methyl Iodide              | 2.51  | 142 | 136   | 4.065 ug/l #  | 82     |
| 13) Acrolein                   | 2.29  | 56  | 112   | 0.333 ug/l #  | 1      |
| 16) Acetone                    | 2.45  | 43  | 539   | 0.323 ug/l #  | 36     |
| 17) Carbon Disulfide           | 2.57  | 76  | 609   | Below Cal #   | 67     |
| 20) Methylene Chloride         | 2.86  | 84  | 683   | 0.244 ug/l    | 93     |
| 27) cis-1,2-Dichloroethene     | 4.61  | 96  | 2703  | 0.945 ug/l    | 89     |
| 28) Bromochloromethane         | 5.01  | 49  | 42    | Below Cal #   | 22     |
| 31) Cyclohexane                | 5.66  | 56  | 4650  | 0.928 ug/l #  | 1      |
| 36) 1,1-Dichloropropene        | 5.66  | 75  | 16550 | 4.523 ug/l #  | 50     |
| 38) Carbon Tetrachloride       | 5.67  | 117 | 19045 | 6.288 ug/l #  | 17     |
| 44) Trichloroethene            | 7.21  | 130 | 707   | 0.278 ug/l    | 100    |
| 49) 1,4-Dioxane                | 7.51  | 88  | 19    | 0.262 ug/l #  | 1      |
| 60) Dibromochloromethane       | 9.34  | 129 | 2083  | 0.857 ug/l #  | 11     |
| 64) Tetrachloroethene          | 9.34  | 164 | 2375  | 1.125 ug/l    | 91     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75  | 69661 | 21.316 ug/l # | 34     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75  | 69661 | 58.759 ug/l # | 9      |

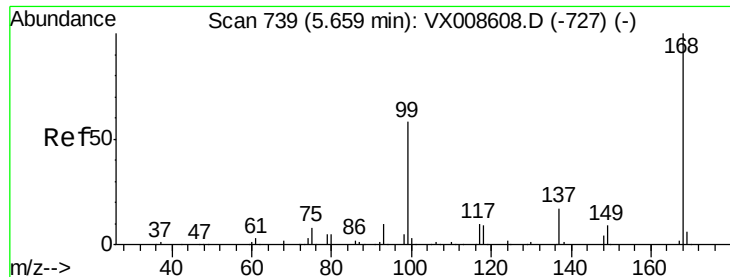
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX040819\  
Data File : VX008743.D  
Acq On : 08 Apr 2019 14:27  
Operator : JC/SP  
Sample : IBLK  
Misc : 5.0mL/MSVOA X/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
IBLK

Quant Time: Apr 09 06:44:18 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X040319W.M  
Quant Title : SW846 8260  
QLast Update : Thu Apr 04 04:47:41 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX008743.D

Acq: 08 Apr 2019 14:27

Instrument :

MSVOA\_X

ClientSampleId :

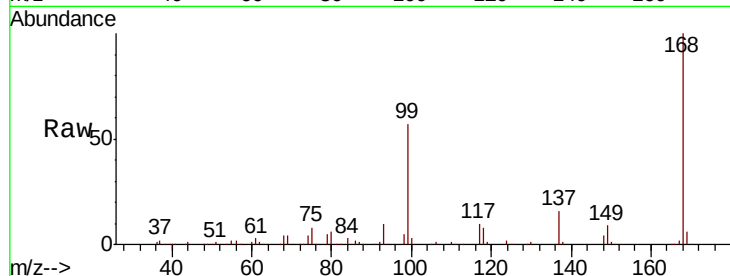
IBLK

Tot Ion:168 Resp: 198861

Ion Ratio Lower Upper

168 100

99 57.2 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

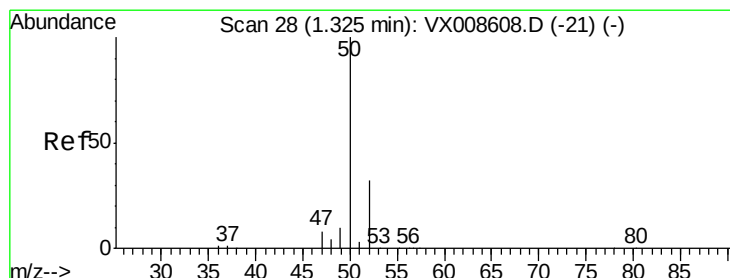
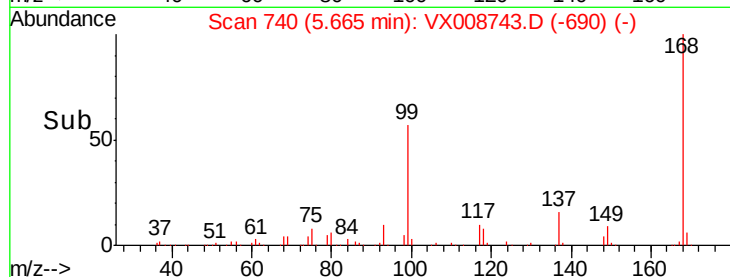
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008743.D

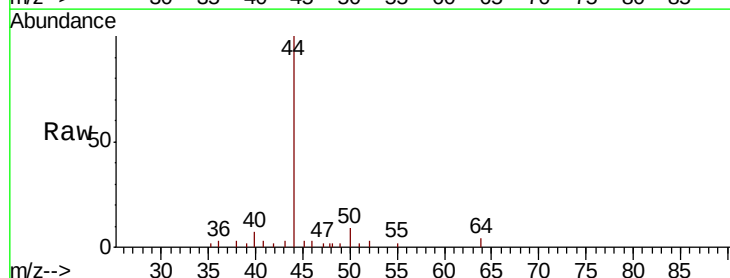
Acq: 08 Apr 2019 14:27

Tgt Ion: 50 Resp: 431

Ion Ratio Lower Upper

50 100

52 31.0 25.8 38.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

300

250

200

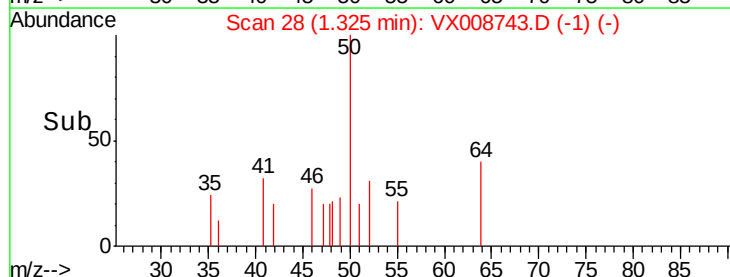
150

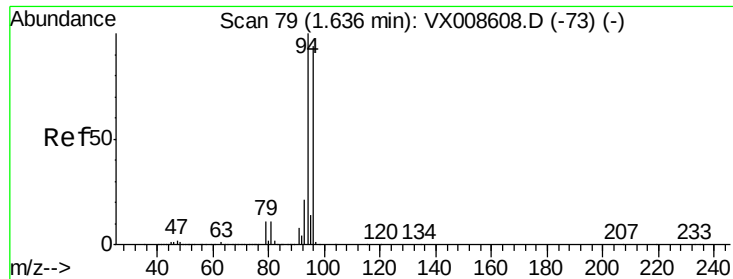
100

50

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 2.094 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008743.D

Acq: 08 Apr 2019 14:27

Instrument :

MSVOA\_X

ClientSampled :

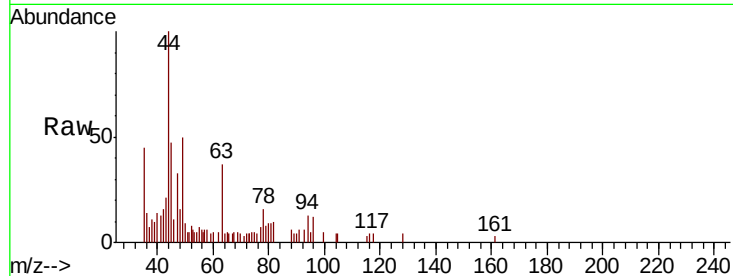
IBLK

Tot Ion: 94 Resp: 331

Ion Ratio Lower Upper

94 100

96 85.7 75.2 112.8



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

200

150

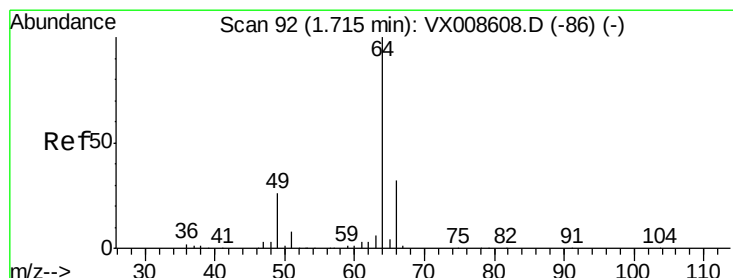
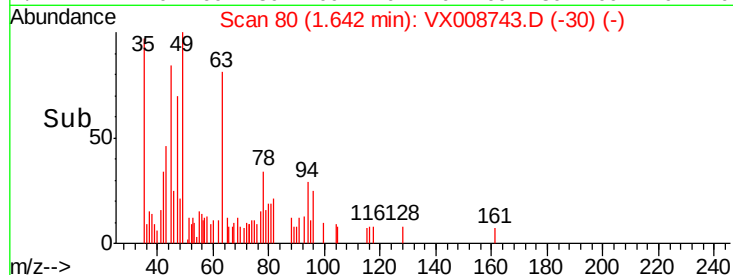
100

50

0

1.60 1.62 1.64 1.66 1.68

Time-->



#6

Chloroethane

Concen: Below Cal

RT: 1.71 min Scan# 91

Delta R.T. -0.01 min

Lab File: VX008743.D

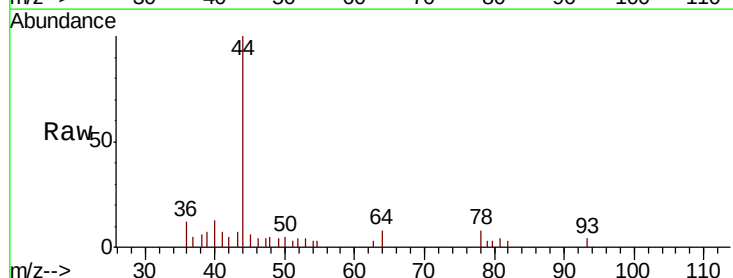
Acq: 08 Apr 2019 14:27

Tgt Ion: 64 Resp: 219

Ion Ratio Lower Upper

64 100

66 0.0 25.4 38.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.71

150

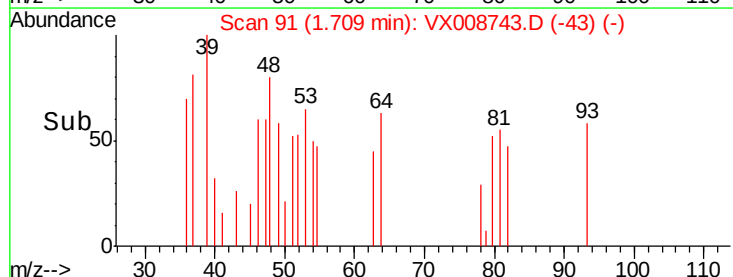
100

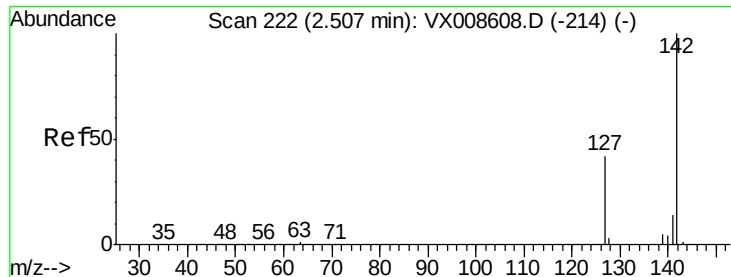
50

0

1.68 1.70 1.72

Time-->

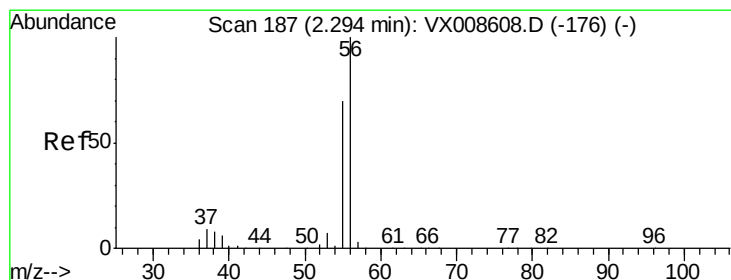
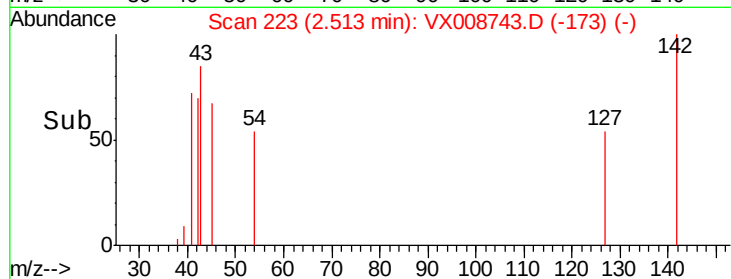
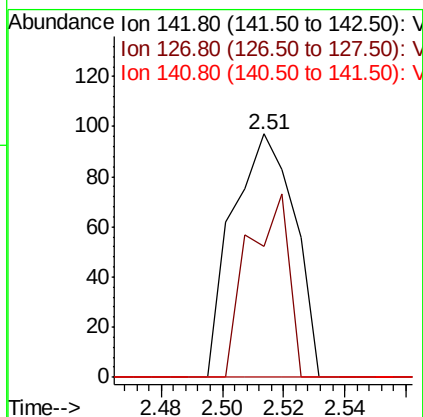
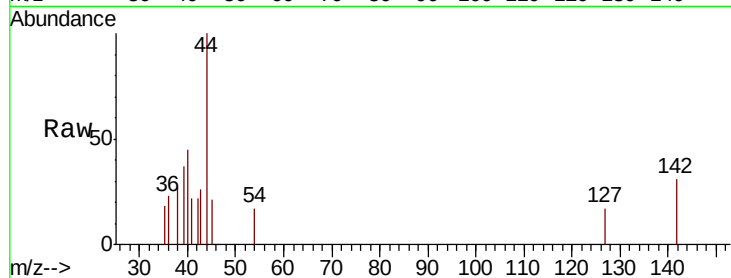




#10  
Methvl Iodide  
Concen: 4.065 ug/l  
RT: 2.51 min Scan# 223  
Delta R.T. 0.01 min  
Lab File: VX008743.D  
Acq: 08 Apr 2019 14:27

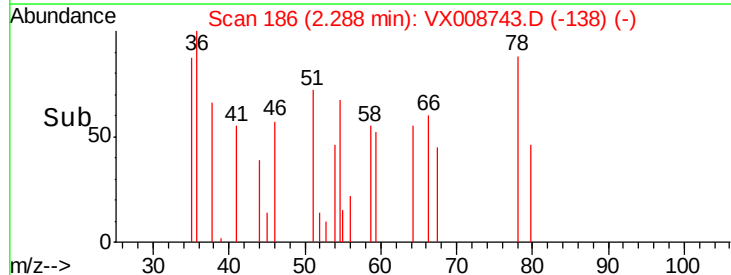
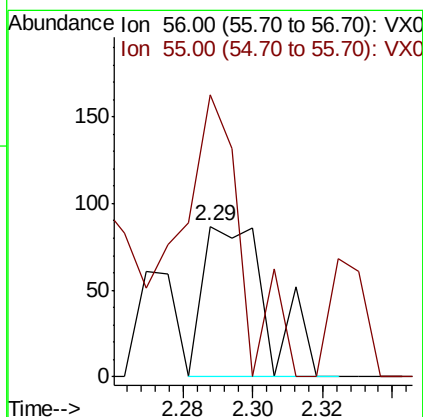
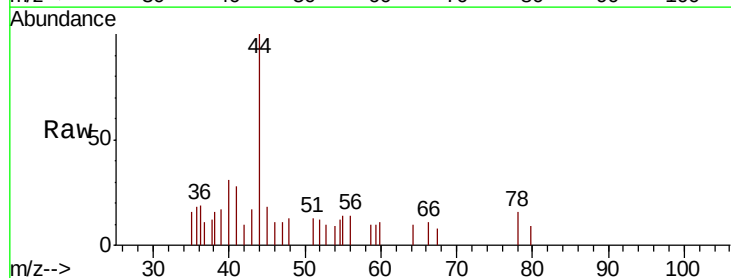
Instrument :  
MSVOA\_X  
ClientSampled :  
IBLK

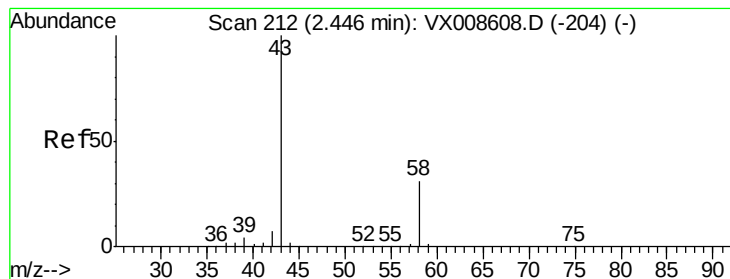
Tot Ion:142 Resp: 136  
Ion Ratio Lower Upper  
142 100  
127 49.3 33.0 49.6  
141 0.0 11.4 17.2#



#13  
Acrolein  
Concen: 0.333 ug/l  
RT: 2.29 min Scan# 186  
Delta R.T. -0.01 min  
Lab File: VX008743.D  
Acq: 08 Apr 2019 14:27

Tgt Ion: 56 Resp: 112  
Ion Ratio Lower Upper  
56 100  
55 170.5 58.0 87.0#





#16

Acetone

Concen: 0.323 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX008743.D

Acq: 08 Apr 2019 14:27

Instrument :

MSVOA\_X

ClientSampleId :

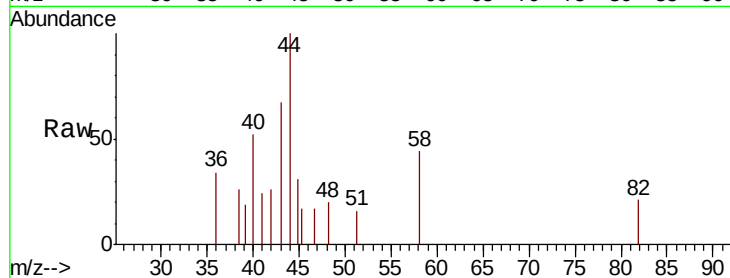
IBLK

Tot Ion: 43 Resp: 539

Ion Ratio Lower Upper

43 100

58 66.2 24.8 37.2#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

200

150

100

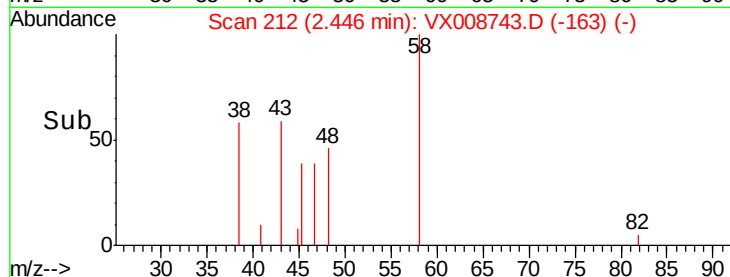
50

0

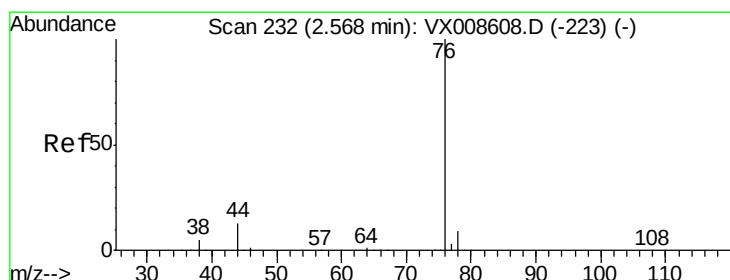
2.40

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: VX008743.D

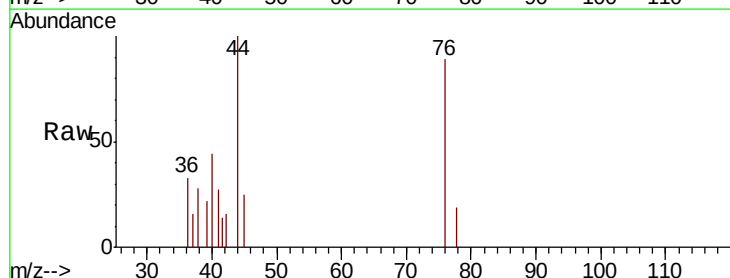
Acq: 08 Apr 2019 14:27

Tgt Ion: 76 Resp: 609

Ion Ratio Lower Upper

76 100

78 20.8 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

300

200

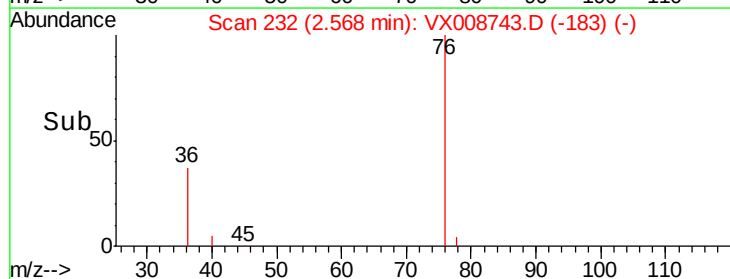
100

0

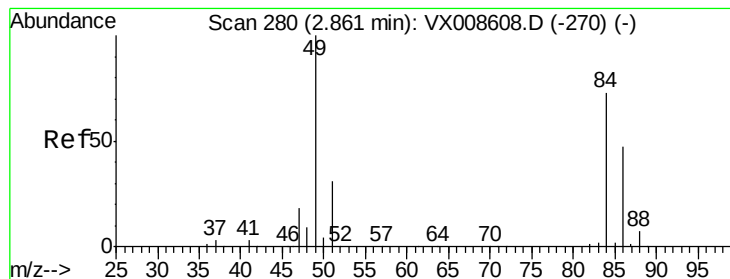
2.50

2.55

2.60



Time-->



#20

Methylene Chloride

Concen: 0.244 ug/l

RT: 2.86 min Scan# 280

Delta R.T. -0.00 min

Lab File: VX008743.D

Acq: 08 Apr 2019 14:27

Instrument :

MSVOA\_X

ClientSampleId :

IBLK

Tot Ion: 84 Resp: 683

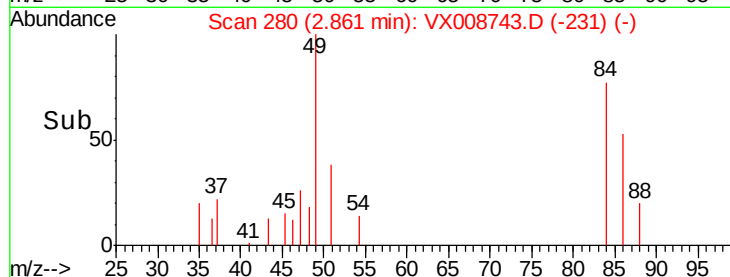
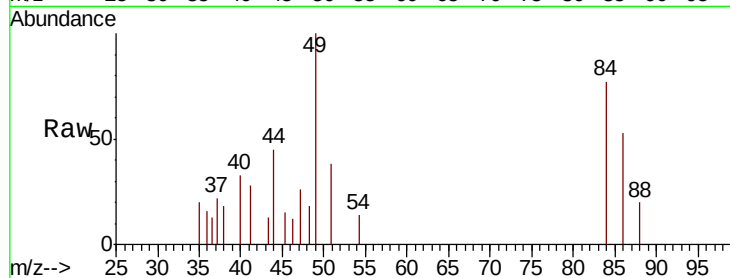
Ion Ratio Lower Upper

84 100

49 129.1 109.7 164.5

51 49.7 33.6 50.4

86 67.8 51.4 77.2

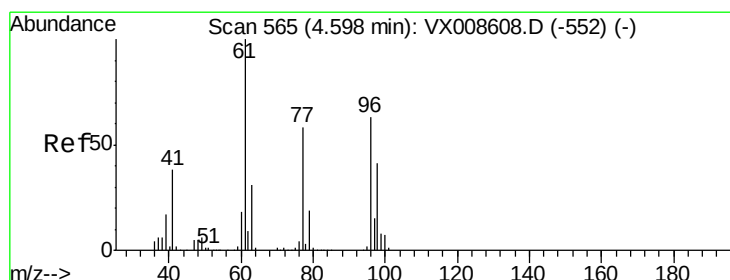
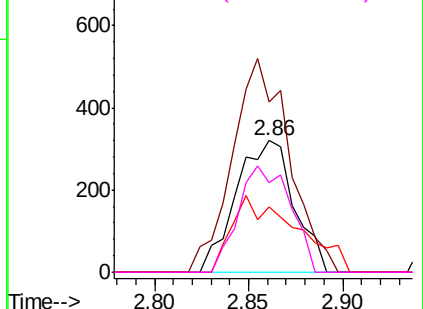


Abundance Ion 83.90 (83.60 to 84.60): VX0

Ion 48.90 (48.60 to 49.60): VX0

Ion 50.90 (50.60 to 51.60): VX0

Ion 85.90 (85.60 to 86.60): VX0



#27

cis-1,2-Dichloroethene

Concen: 0.945 ug/l

RT: 4.61 min Scan# 567

Delta R.T. 0.01 min

Lab File: VX008743.D

Acq: 08 Apr 2019 14:27

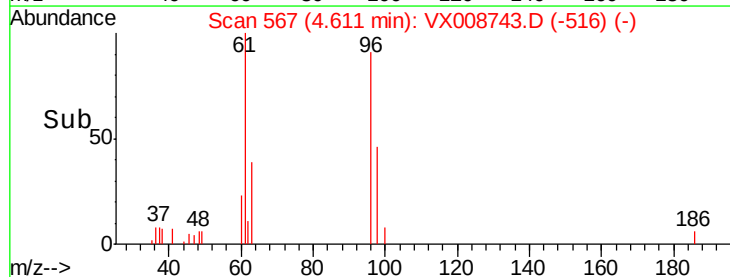
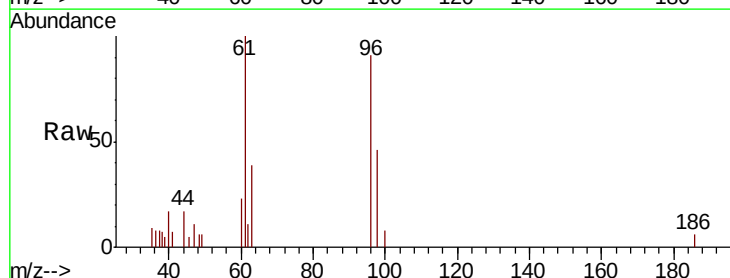
Tgt Ion: 96 Resp: 2703

Ion Ratio Lower Upper

96 100

61 146.3 0.0 327.6

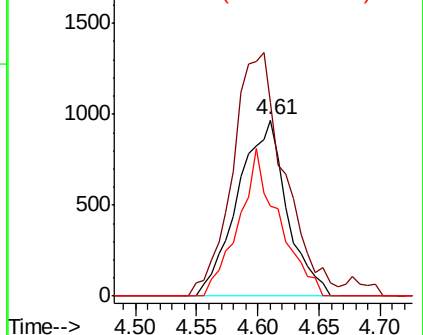
98 68.7 0.0 128.6

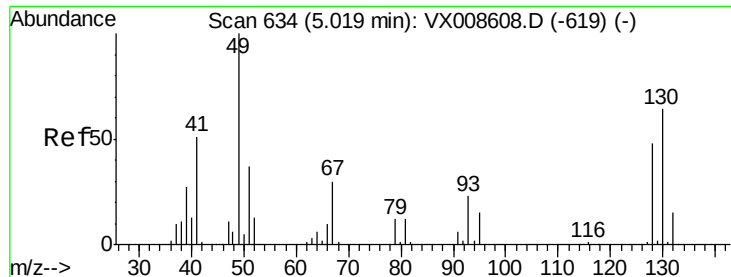


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#28

Bromochloromethane

Concen: Below Cal

RT: 5.01 min Scan# 632

Delta R.T. -0.01 min

Lab File: VX008743.D

Acq: 08 Apr 2019 14:27

Instrument :

MSVOA\_X

ClientSampled :

IBLK

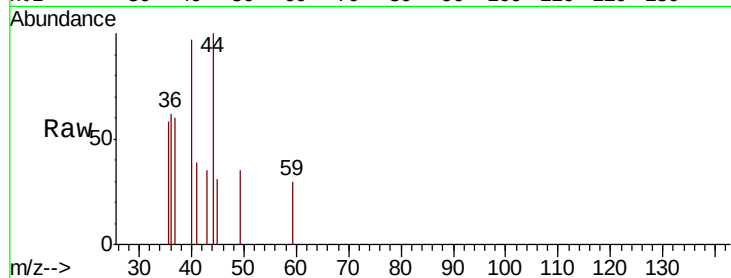
Tot Ion: 49 Resp: 42

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

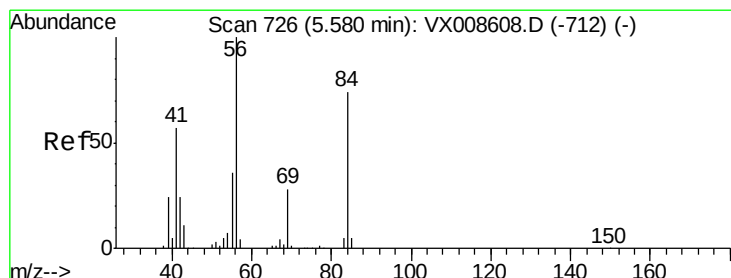
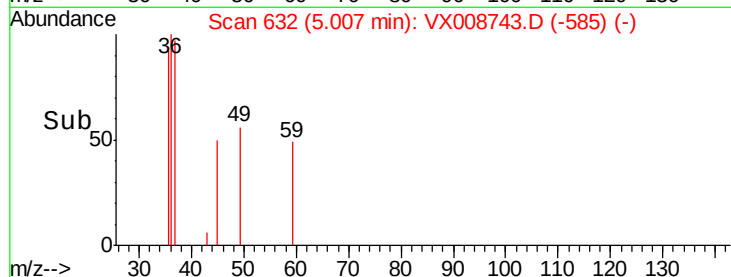
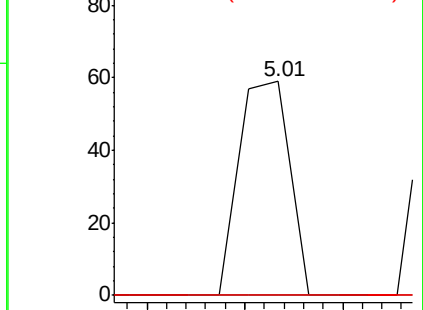
130 0.0 49.3 73.9#



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#31

Cyclohexane

Concen: 0.928 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX008743.D

Acq: 08 Apr 2019 14:27

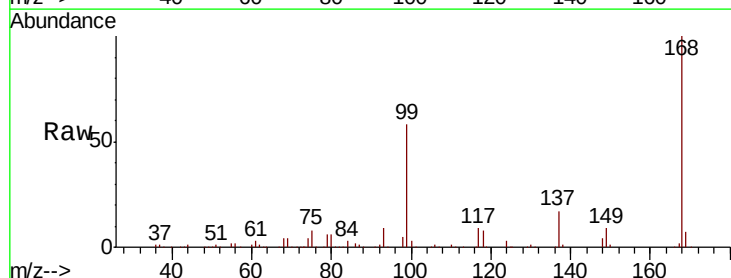
Tgt Ion: 56 Resp: 4650

Ion Ratio Lower Upper

56 100

69 189.0 22.6 33.8#

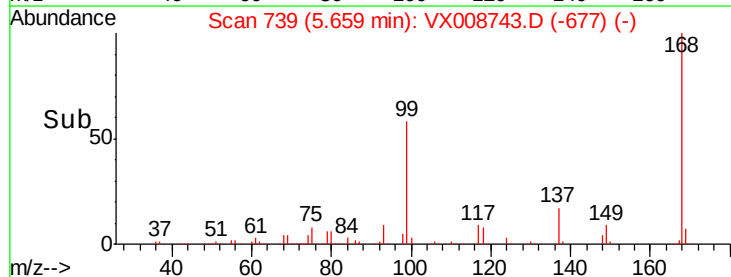
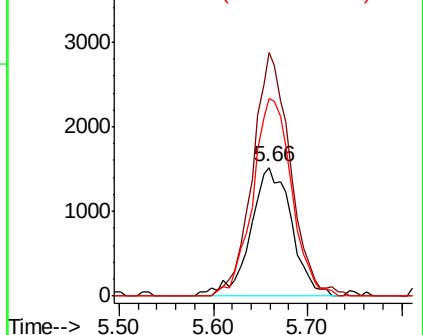
84 153.4 59.3 88.9#



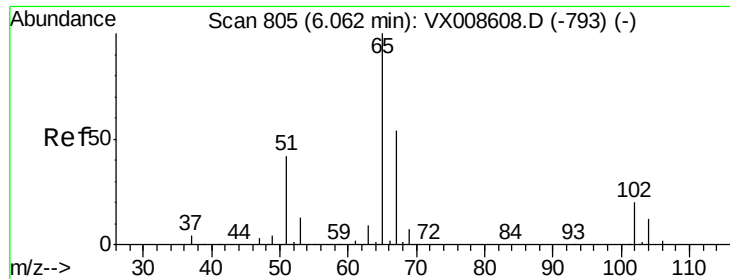
Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



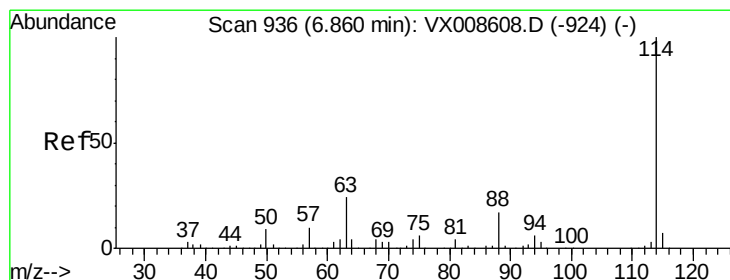
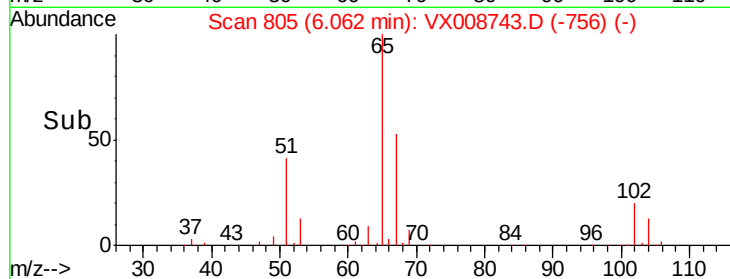
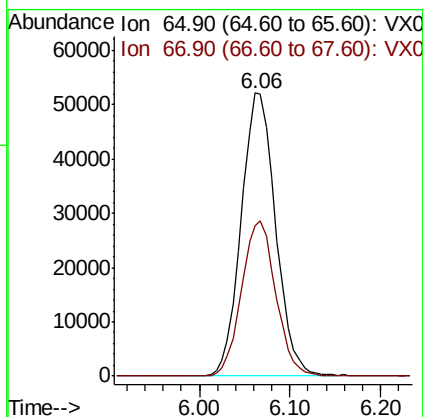
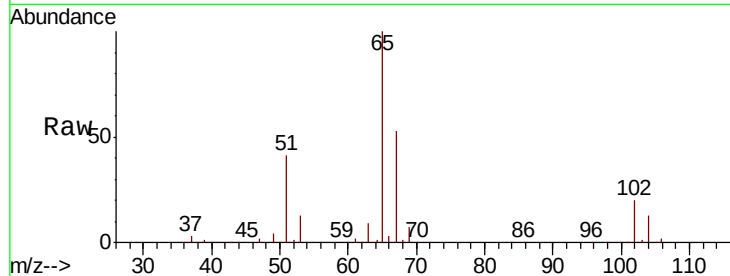




#33  
 1,2-Dichloroethane-d4  
 Concen: 47.328 ug/l  
 RT: 6.06 min Scan# 805  
 Delta R.T. -0.00 min  
 Lab File: VX008743.D  
 Acq: 08 Apr 2019 14:27

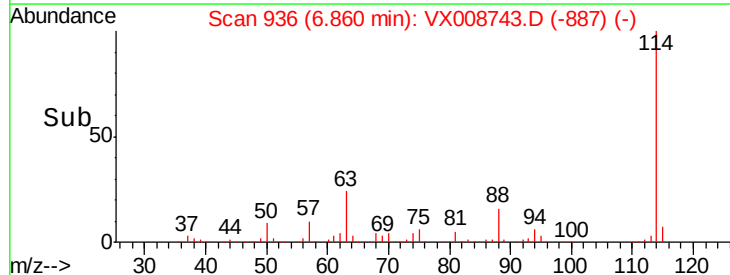
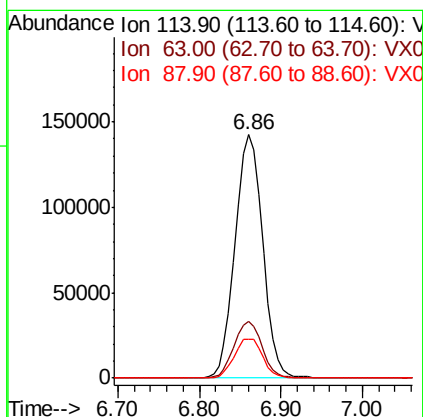
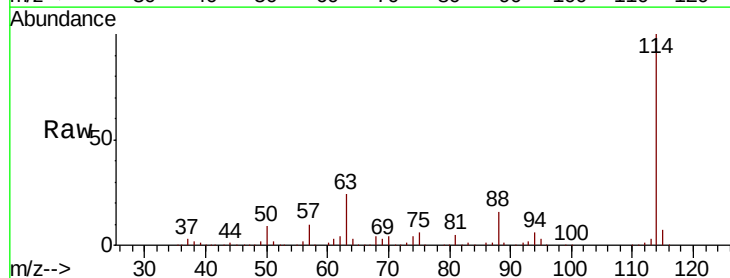
Instrument :  
 MSVOA\_X  
 ClientSampled :  
 IBLK

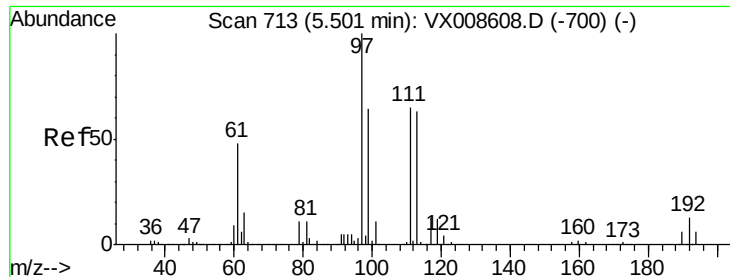
Tot Ion: 65 Resp: 137276  
 Ion Ratio Lower Upper  
 65 100  
 67 54.5 0.0 107.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. -0.00 min  
 Lab File: VX008743.D  
 Acq: 08 Apr 2019 14:27

Tgt Ion: 114 Resp: 334751  
 Ion Ratio Lower Upper  
 114 100  
 63 23.5 0.0 47.2  
 88 16.1 0.0 34.0

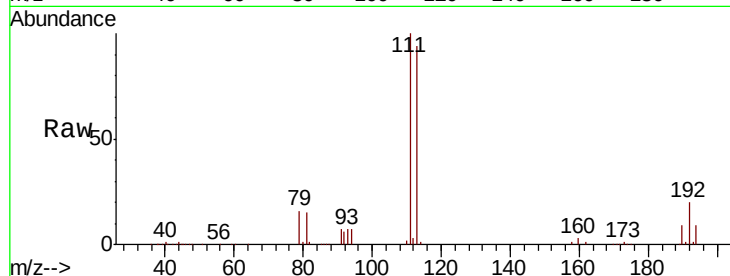




#35  
 Dibromofluoromethane  
 Concen: 46.826 ug/l  
 RT: 5.50 min Scan# 713  
 Delta R.T. -0.00 min  
 Lab File: VX008743.D  
 Acq: 08 Apr 2019 14:27

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 IBLK

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 104.2 | 83.4  | 125.2 |
| 192     | 20.9  | 16.1  | 24.1  |

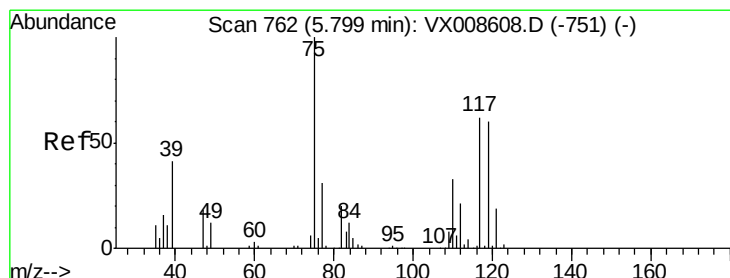
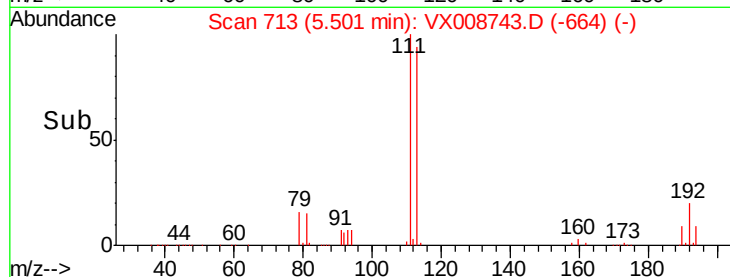
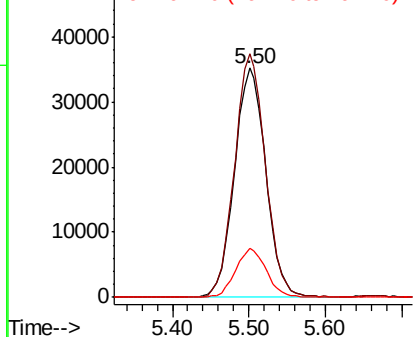


Abundance

Ion 112.80 (112.50 to 113.50): V

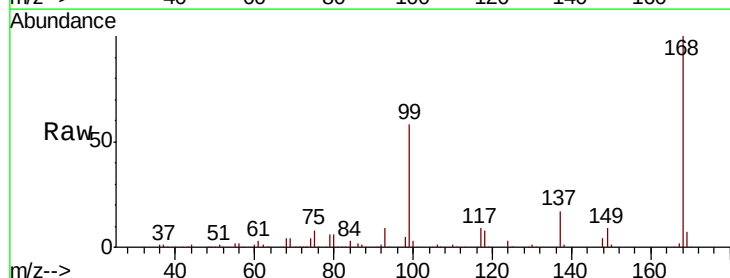
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36  
 1,1-Dichloropropene  
 Concen: 4.523 ug/l  
 RT: 5.66 min Scan# 739  
 Delta R.T. -0.14 min  
 Lab File: VX008743.D  
 Acq: 08 Apr 2019 14:27

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.4   | 16.4  | 49.2# |
| 77      | 0.0   | 24.7  | 37.1# |

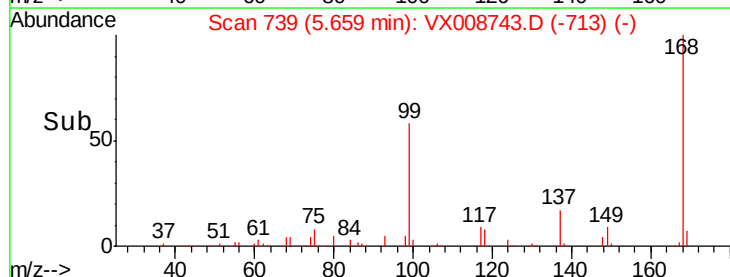
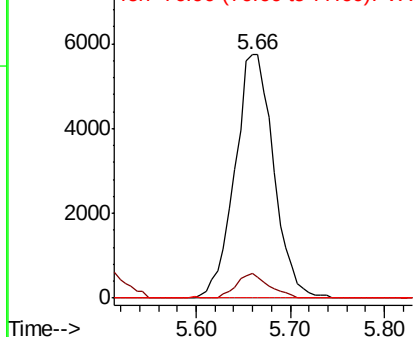


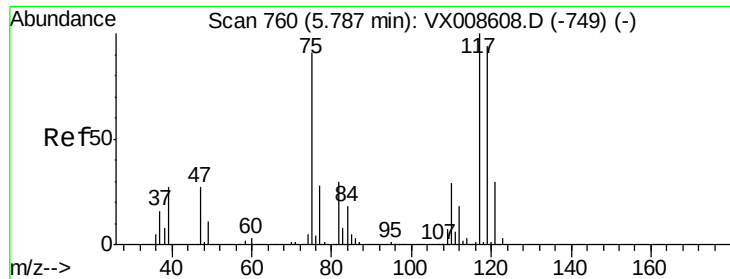
Abundance

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

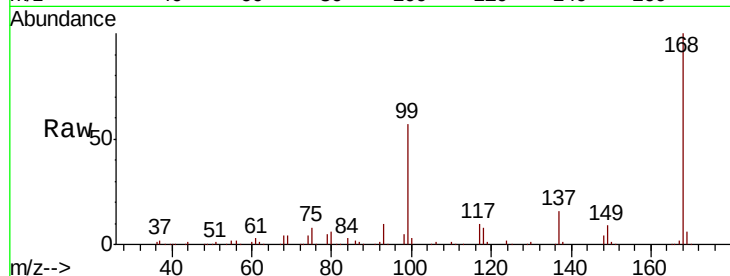




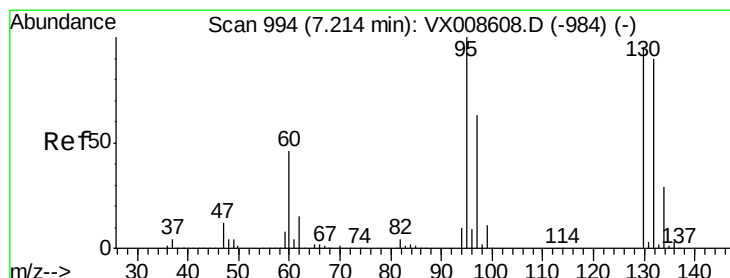
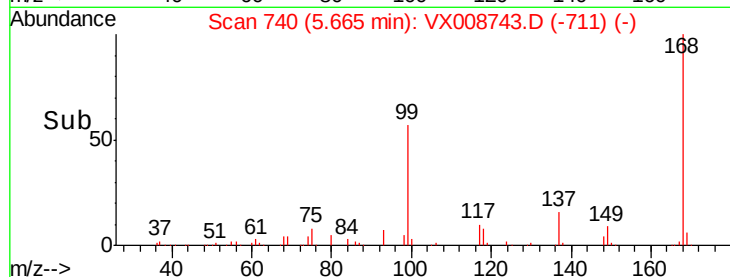
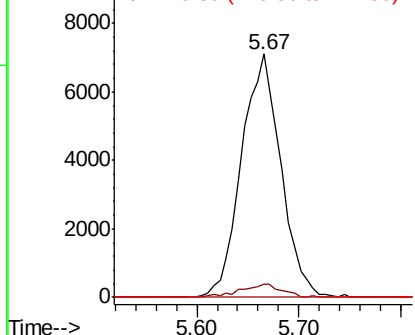
#38  
Carbon Tetrachloride  
Concen: 6.288 ug/l  
RT: 5.67 min Scan# 740  
Delta R.T. -0.12 min  
Lab File: VX008743.D  
Acq: 08 Apr 2019 14:27

Instrument :  
MSVOA\_X  
ClientSampled :  
IBLK

Tot Ion:117 Resp: 19045  
Ion Ratio Lower Upper  
117 100  
119 5.5 75.0 112.6#  
121 0.0 24.3 36.5#

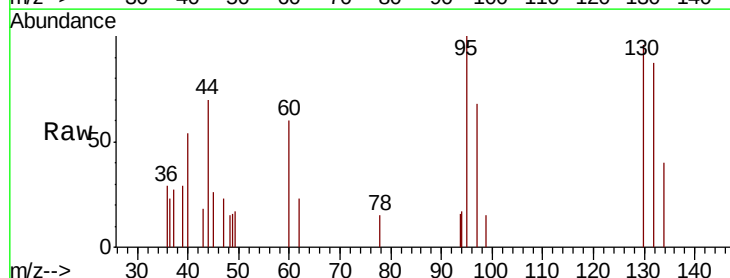


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

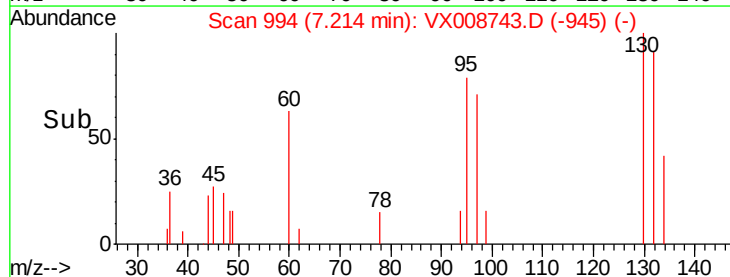
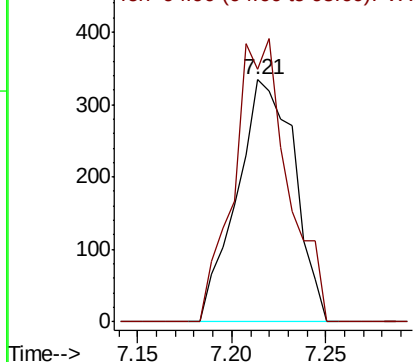


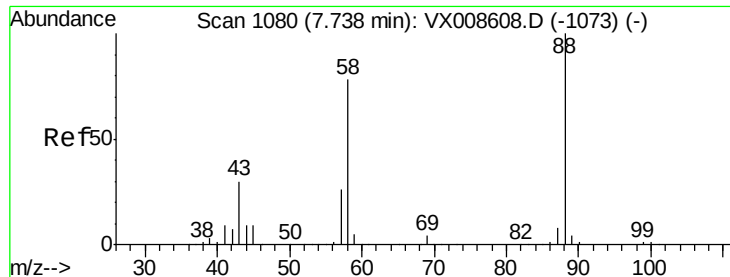
#44  
Trichloroethene  
Concen: 0.278 ug/l  
RT: 7.21 min Scan# 994  
Delta R.T. -0.00 min  
Lab File: VX008743.D  
Acq: 08 Apr 2019 14:27

Tgt Ion:130 Resp: 707  
Ion Ratio Lower Upper  
130 100  
95 104.5 0.0 209.8



Abundance Ion 129.80 (129.50 to 130.50): V  
Ion 94.90 (94.60 to 95.60): VX0

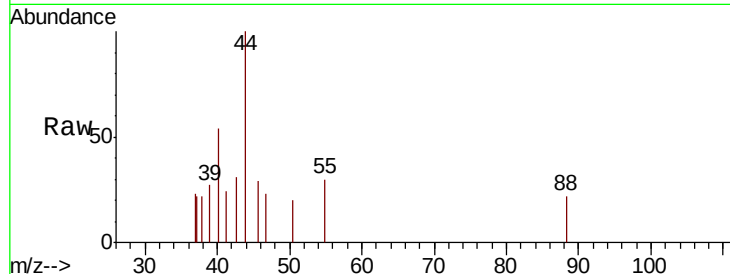




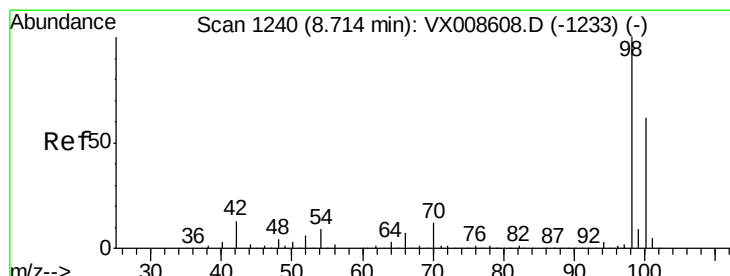
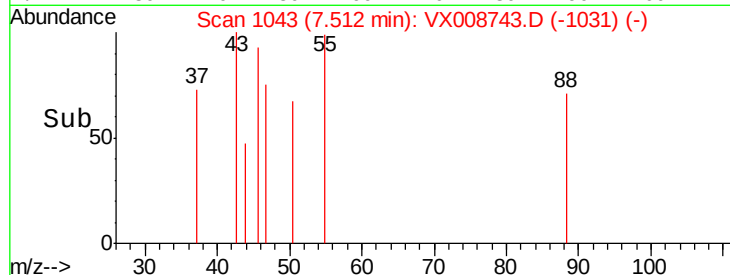
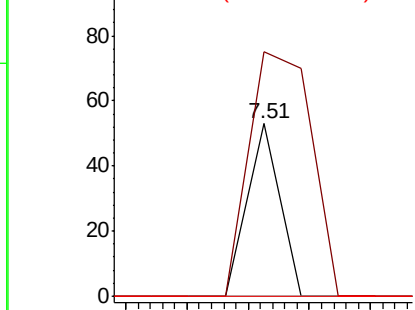
#49  
 1,4-Dioxane  
 Concen: 0.262 ug/l  
 RT: 7.51 min Scan# 1043  
 Delta R.T. -0.23 min  
 Lab File: VX008743.D  
 Acq: 08 Apr 2019 14:27

Instrument :  
 MSVOA\_X  
 ClientSampled :  
 IBLK

Tot Ion: 88 Resp: 19  
 Ion Ratio Lower Upper  
 88 100  
 43 278.9 28.6 43.0#  
 58 0.0 62.2 93.2#

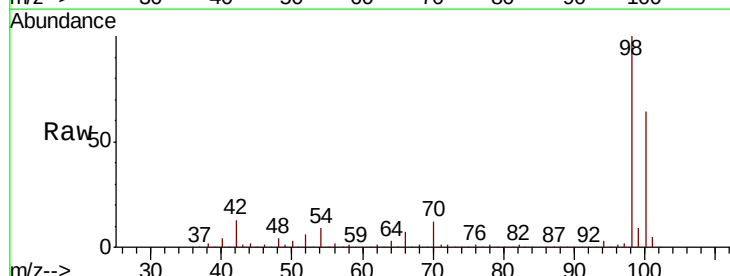


Abundance Ion 88.00 (87.70 to 88.70): VX0  
 Ion 43.00 (42.70 to 43.70): VX0  
 Ion 58.00 (57.70 to 58.70): VX0

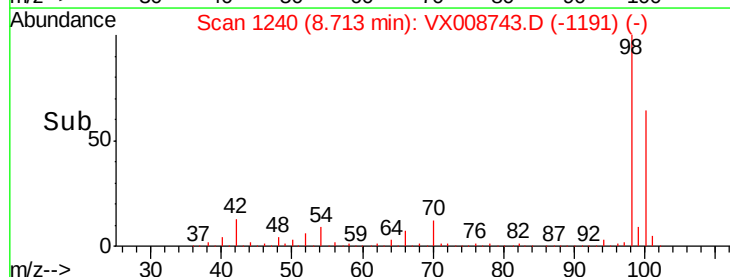
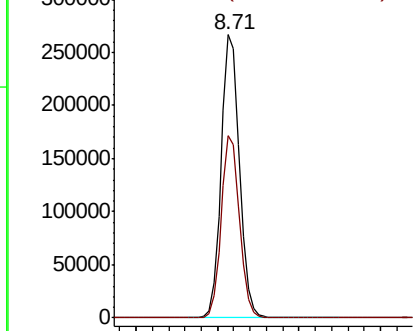


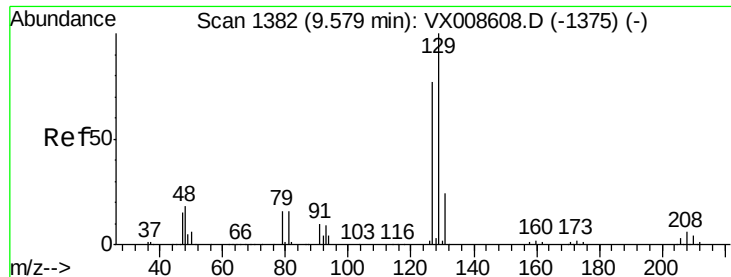
#50  
 Toluene-d8  
 Concen: 48.732 ug/l  
 RT: 8.71 min Scan# 1240  
 Delta R.T. -0.00 min  
 Lab File: VX008743.D  
 Acq: 08 Apr 2019 14:27

Tgt Ion: 98 Resp: 415295  
 Ion Ratio Lower Upper  
 98 100  
 100 64.1 51.4 77.0



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





#60

Dibromochloromethane

Concen: 0.857 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX008743.D

Acq: 08 Apr 2019 14:27

Instrument :

MSVOA\_X

ClientSampleId :

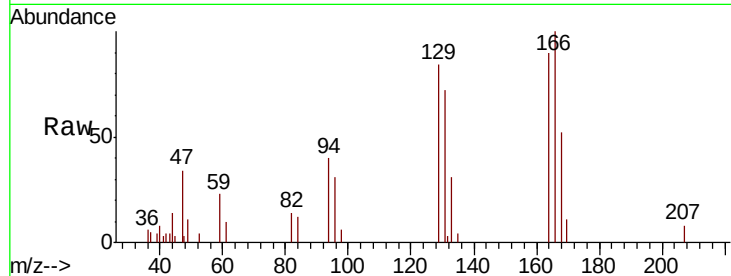
IBLK

Tot Ion:129 Resp: 2083

Ion Ratio Lower Upper

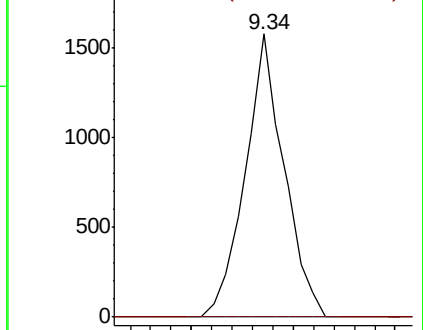
129 100

127 0.0 38.5 115.3#

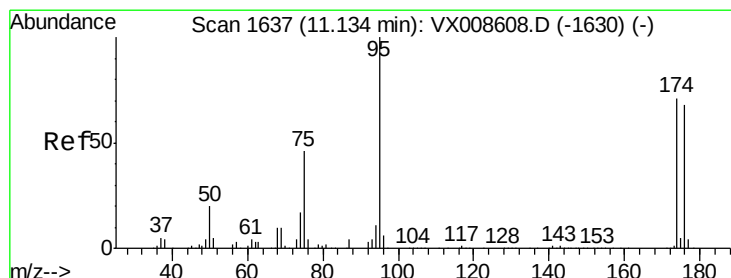
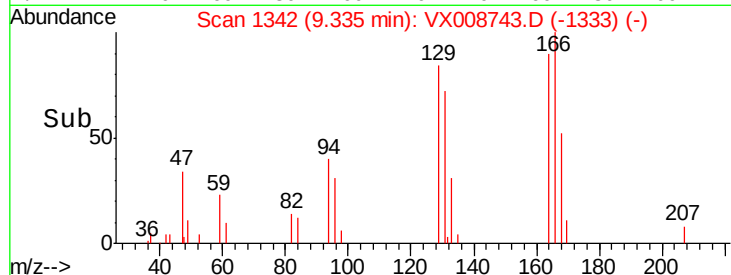


Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V



Time-->



#62

4-Bromofluorobenzene

Concen: 45.174 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX008743.D

Acq: 08 Apr 2019 14:27

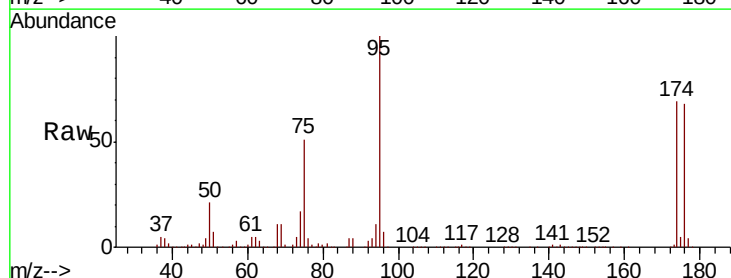
Tgt Ion: 95 Resp: 136517

Ion Ratio Lower Upper

95 100

174 77.2 0.0 151.8

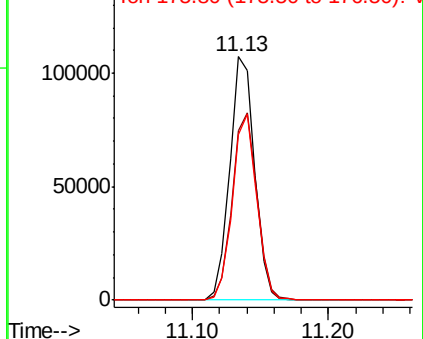
176 74.8 0.0 145.8



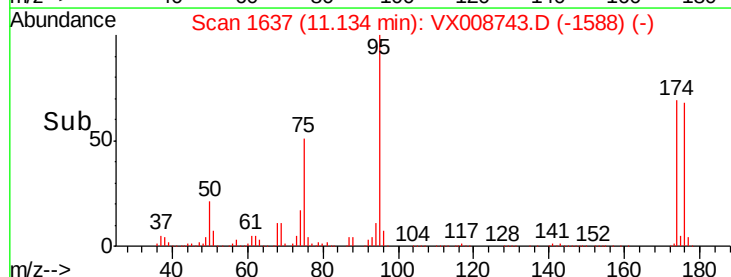
Abundance Ion 94.90 (94.60 to 95.60): VX0

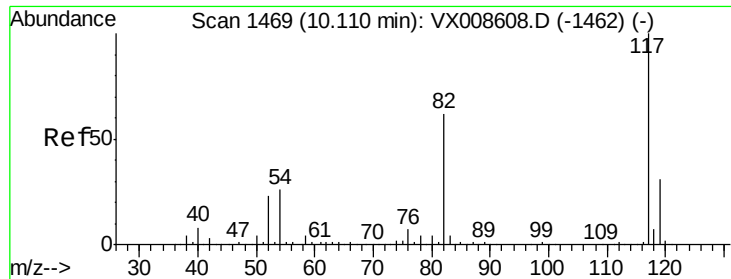
Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V



Time-->

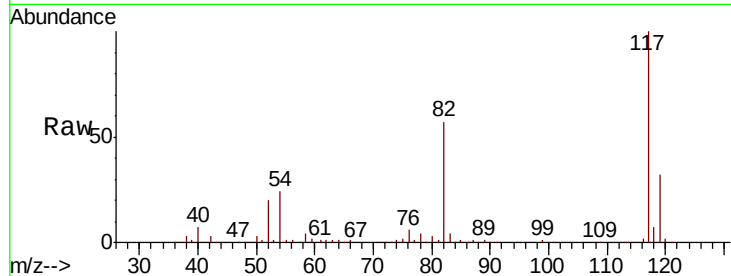




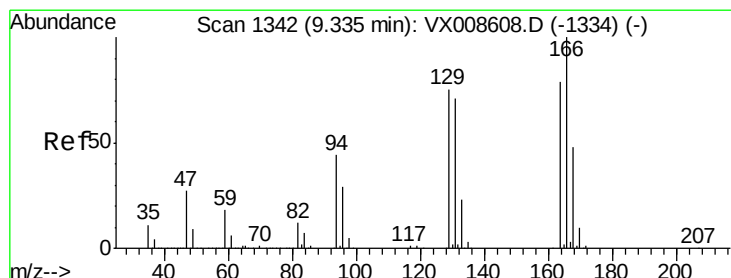
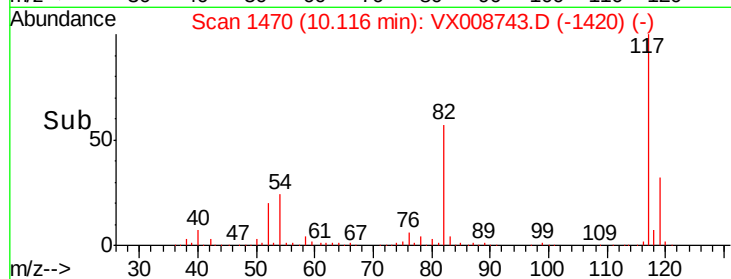
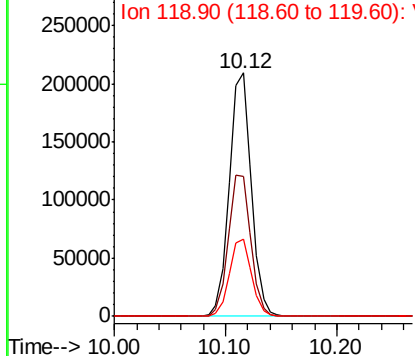
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.12 min Scan# 1470  
Delta R.T. 0.01 min  
Lab File: VX008743.D  
Acq: 08 Apr 2019 14:27

Instrument :  
MSVOA\_X  
ClientSampled :  
IBLK

Tot Ion:117 Resp: 284855  
Ion Ratio Lower Upper  
117 100  
82 57.5 49.6 74.4  
119 31.8 25.0 37.4

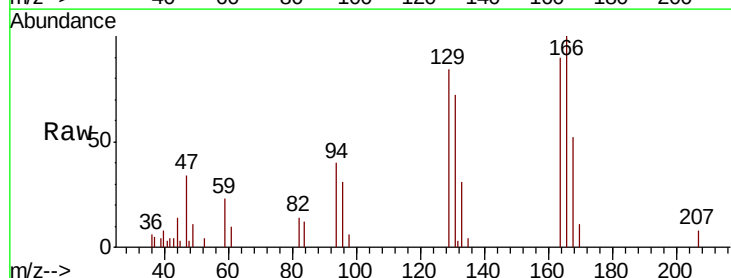


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VX0  
Ion 118.90 (118.60 to 119.60): V

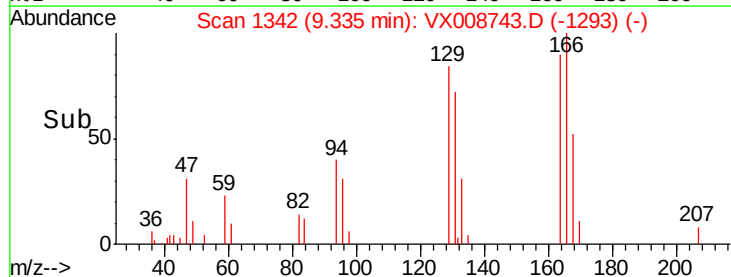
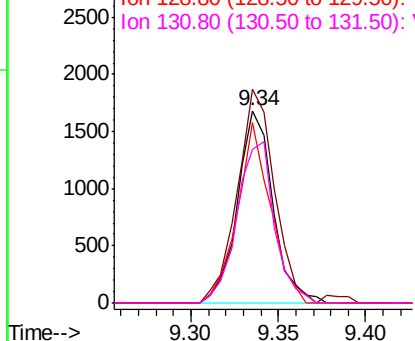


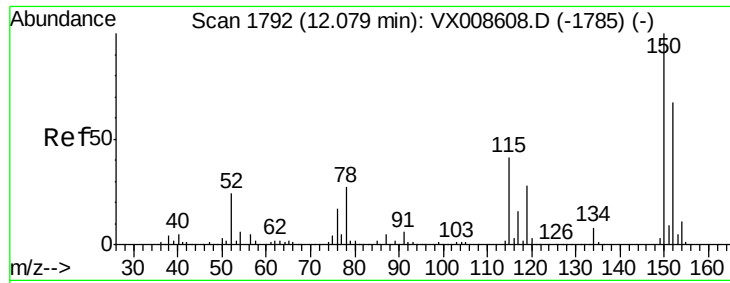
#64  
Tetrachloroethene  
Concen: 1.125 ug/l  
RT: 9.34 min Scan# 1342  
Delta R.T. -0.00 min  
Lab File: VX008743.D  
Acq: 08 Apr 2019 14:27

Tgt Ion:164 Resp: 2375  
Ion Ratio Lower Upper  
164 100  
166 111.3 101.0 151.6  
129 93.7 75.8 113.8  
131 79.8 71.8 107.8



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



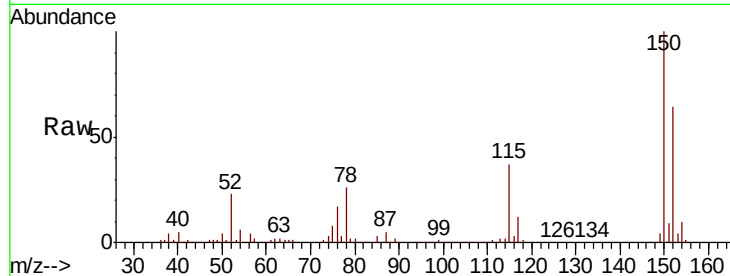


#72

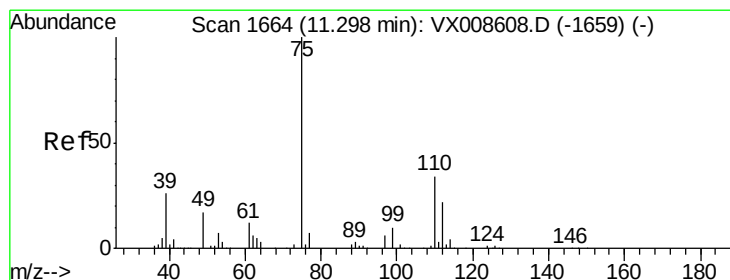
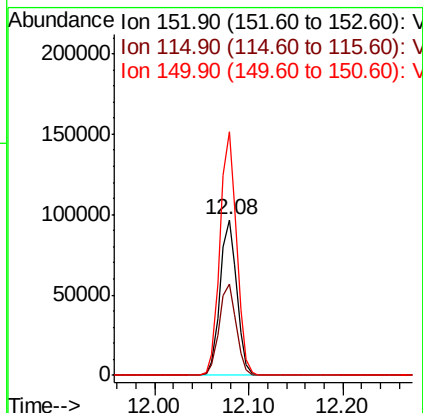
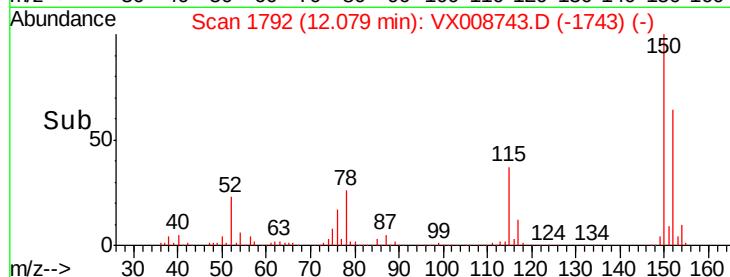
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. -0.00 min  
Lab File: VX008743.D  
Acq: 08 Apr 2019 14:27

Instrument :  
MSVOA\_X  
ClientSampled :  
IBLK

Tot Ion:152 Resp: 118961  
Ion Ratio Lower Upper  
152 100  
115 60.0 43.5 130.5  
150 155.6 0.0 348.8



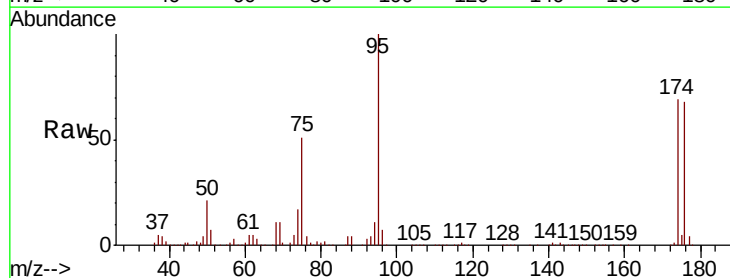
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



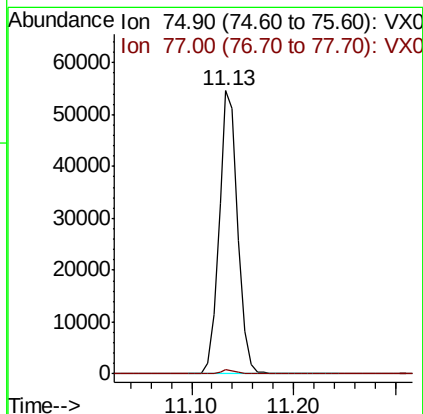
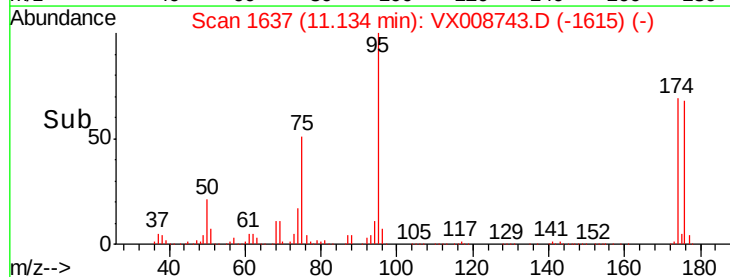
#76

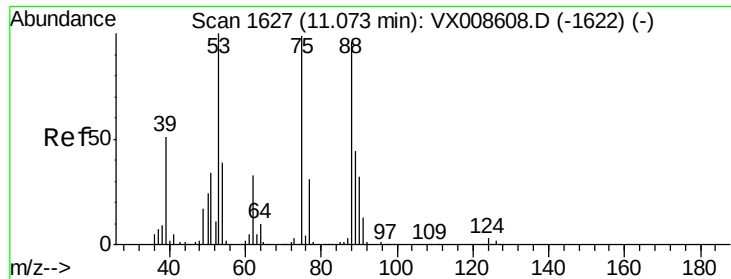
1,2,3-Trichloropropane  
Concen: 21.316 ug/l  
RT: 11.13 min Scan# 1637  
Delta R.T. -0.16 min  
Lab File: VX008743.D  
Acq: 08 Apr 2019 14:27

Tgt Ion: 75 Resp: 69661  
Ion Ratio Lower Upper  
75 100  
77 1.3 22.3 66.8#



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: 58.759 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008743.D

Acq: 08 Apr 2019 14:27

Instrument :

MSVOA\_X

ClientSampleId :

IBLK

Tot Ion: 75 Resp: 69661

Ion Ratio Lower Upper

75 100

53 0.0 81.3 121.9#

89 0.0 35.6 53.4#

