

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX070620\  
 Data File : VX017187.D  
 Acq On : 06 Jul 2020 22:29  
 Operator : JC/SP  
 Sample : L3159-23  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 64BR-20200629

Quant Time: Jul 07 06:55:02 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X062920W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jun 29 17:10:38 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 264422   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 440457   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 455367   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 248011   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.03  | 65   | 171129   | 52.50 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.00% |          |
| 35) Dibromofluoromethane    | 5.47  | 113  | 146470   | 52.57 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.14% |          |
| 50) Toluene-d8              | 8.70  | 98   | 539355   | 52.35 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.70% |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 222662   | 55.29 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 110.58% |          |

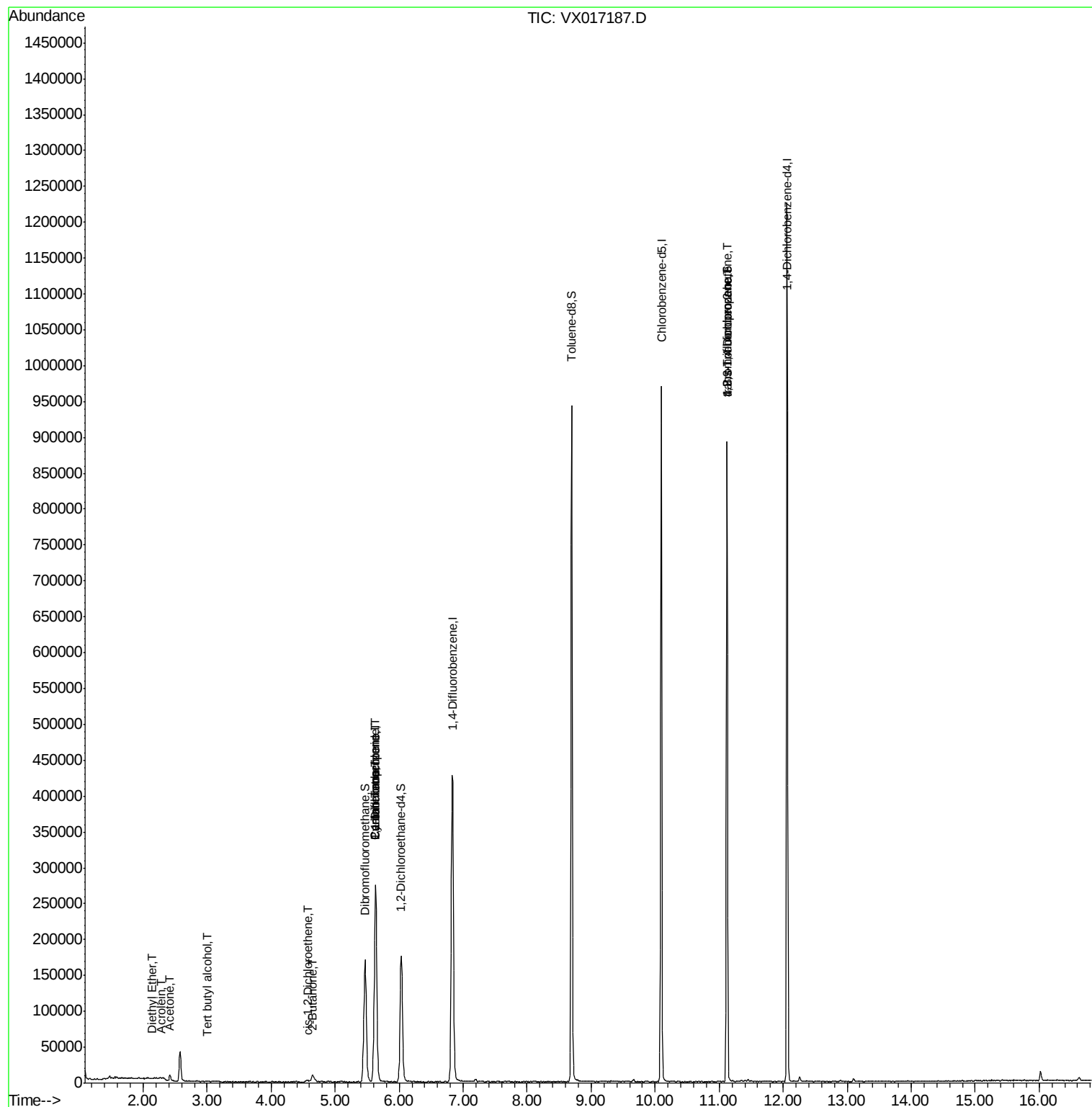
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 8) Diethyl Ether               | 2.14  | 74   | 252      | 0.540     | ug/l   | 94     |
| 11) Tert butyl alcohol         | 3.01  | 59   | 1393     | 2.240     | ug/l # | 78     |
| 13) Acrolein                   | 2.28  | 56   | 280      | 0.753     | ug/l # | 82     |
| 16) Acetone                    | 2.42  | 43   | 8066     | 6.614     | ug/l   | 96     |
| 20) Methylene Chloride         | 2.83  | 84   | 285      | Below Cal | #      | 73     |
| 25) 2-Butanone                 | 4.65  | 43   | 2360     | 1.161     | ug/l   | 92     |
| 27) cis-1,2-Dichloroethene     | 4.56  | 96   | 1626     | 0.494     | ug/l   | 74     |
| 31) Cyclohexane                | 5.64  | 56   | 5222     | 1.187     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.63  | 75   | 19131    | 4.596     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 5.63  | 117  | 25960    | 5.662     | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 110104   | 22.576    | ug/l # | 37     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 110104   | 58.464    | ug/l # | 13     |
| 88) 1,4-Dichlorobenzene        | 12.07 | 146  | 629      | Below Cal | #      | 1      |

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

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Instrument :  
MSVOA\_X  
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64BR-20200629

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X062920W.M  
Quant Title : SW846 8260  
QLast Update : Mon Jun 29 17:10:38 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017187.D

Acq: 06 Jul 2020 22:29

Instrument :

MSVOA\_X

ClientSampleId :

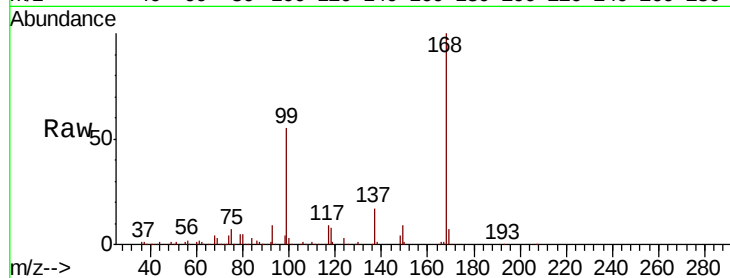
64BR-20200629

Tot Ion:168 Resp: 264422

Ion Ratio Lower Upper

168 100

99 54.7 42.6 64.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

100000

80000

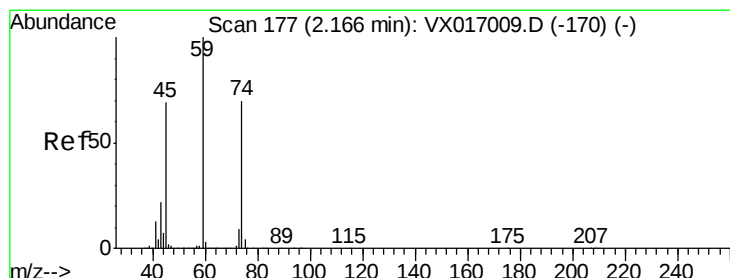
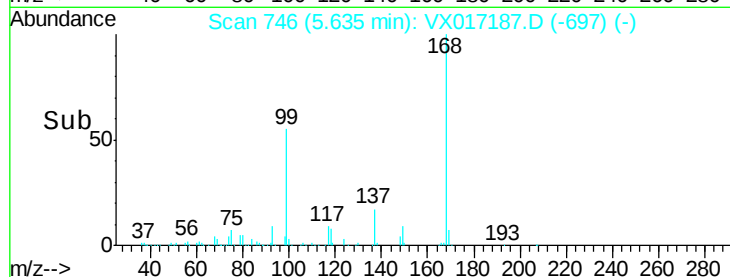
60000

40000

20000

0

Time-->



#8

Diethyl Ether

Concen: 0.540 ug/l

RT: 2.14 min Scan# 173

Delta R.T. -0.02 min

Lab File: VX017187.D

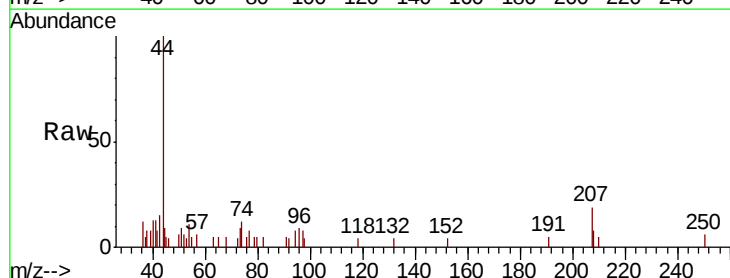
Acq: 06 Jul 2020 22:29

Tgt Ion: 74 Resp: 252

Ion Ratio Lower Upper

74 100

45 105.2 49.8 149.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

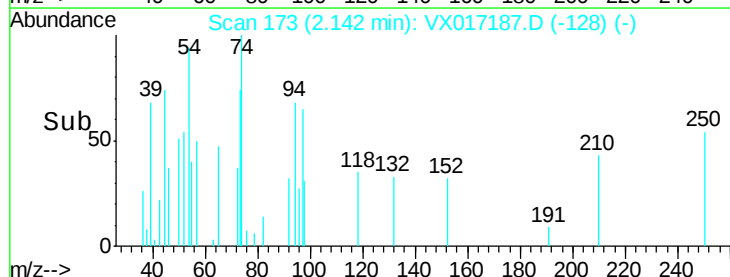
600

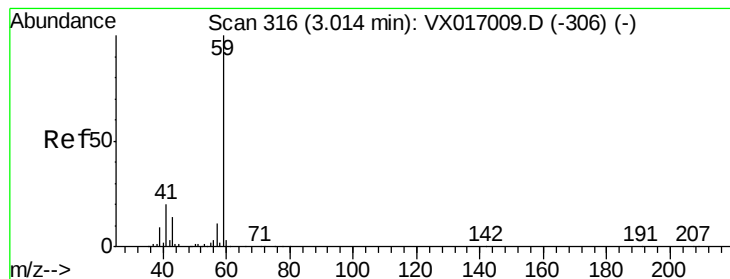
400

200

0

Time-->



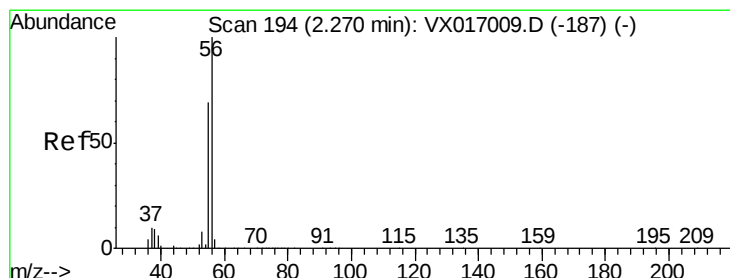
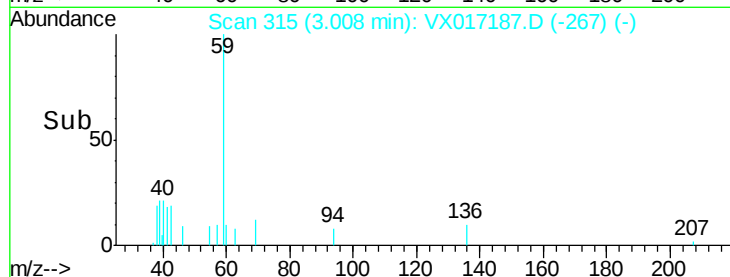
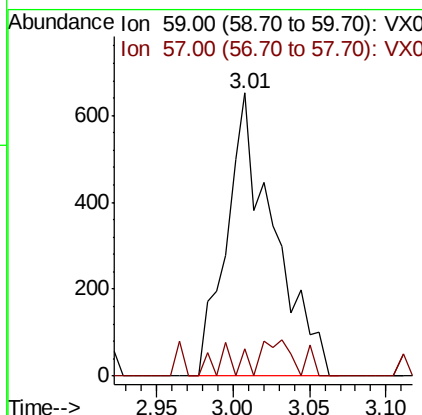
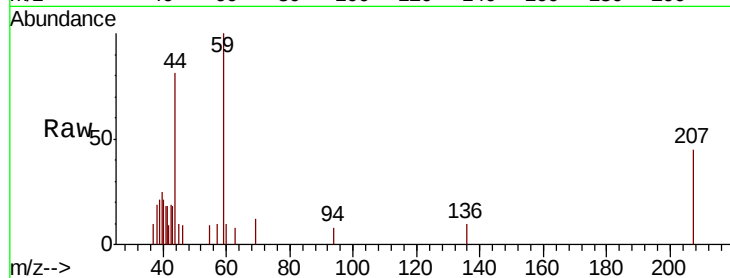


#11

Tert butyl alcohol  
 Concen: 2.240 ug/l  
 RT: 3.01 min Scan# 315  
 Delta R.T. -0.01 min  
 Lab File: VX017187.D  
 Acq: 06 Jul 2020 22:29

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 64BR-20200629

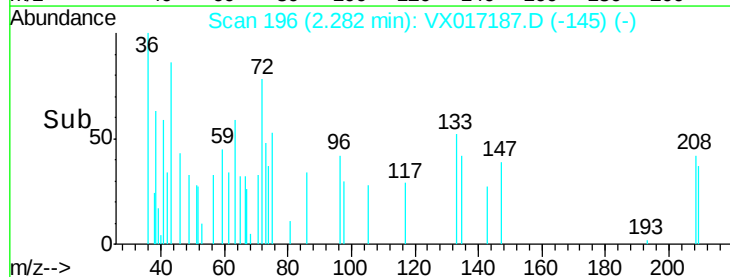
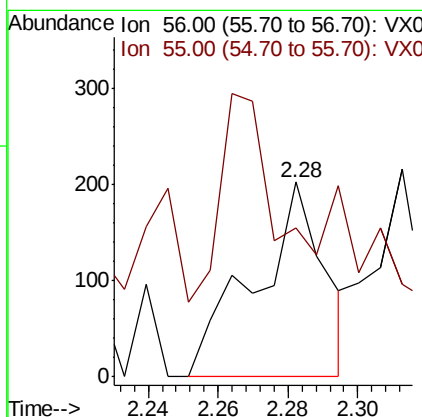
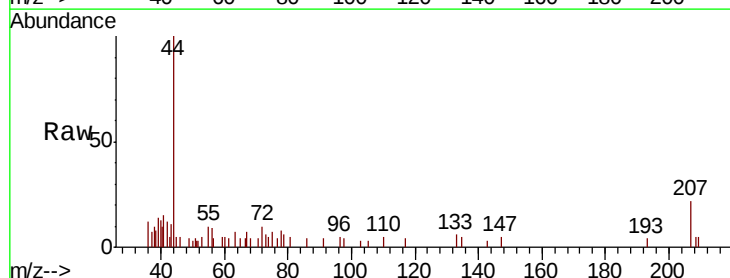
Tot Ion: 59 Resp: 1393  
 Ion Ratio Lower Upper  
 59 100  
 57 2.0 8.2 12.2#

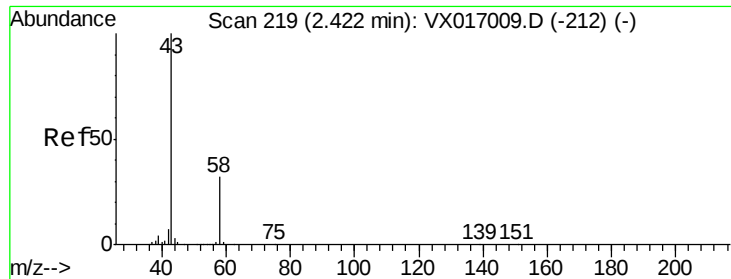


#13

Acrolein  
 Concen: 0.753 ug/l  
 RT: 2.28 min Scan# 196  
 Delta R.T. 0.01 min  
 Lab File: VX017187.D  
 Acq: 06 Jul 2020 22:29

Tgt Ion: 56 Resp: 280  
 Ion Ratio Lower Upper  
 56 100  
 55 84.6 55.7 83.5#





#16

Acetone

Concen: 6.614 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017187.D

Acq: 06 Jul 2020 22:29

Instrument :

MSVOA\_X

ClientSampleId :

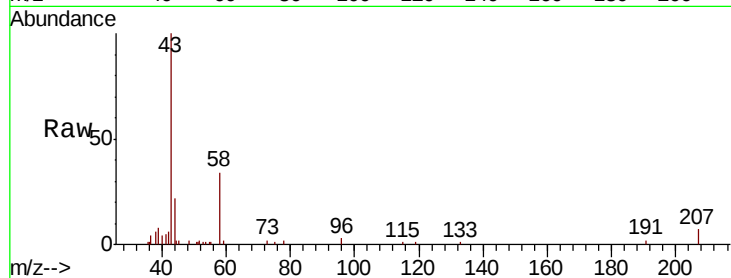
64BR-20200629

Tot Ion: 43 Resp: 8066

Ion Ratio Lower Upper

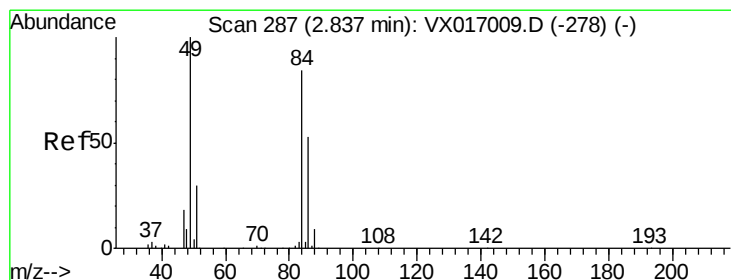
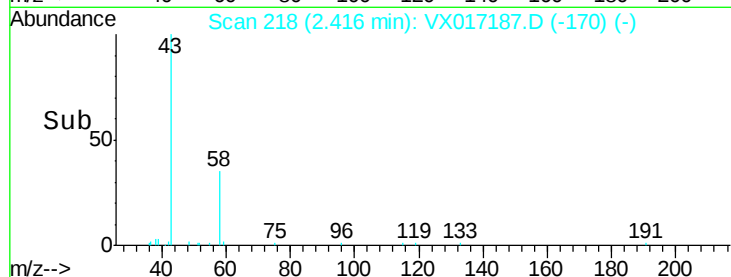
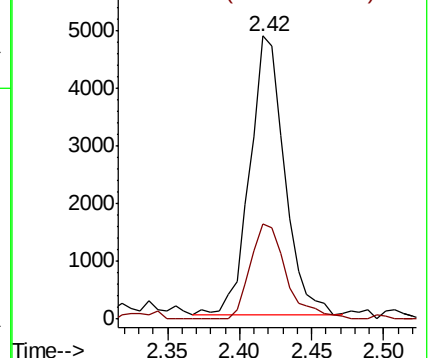
43 100

58 34.1 25.7 38.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#20

Methylene Chloride

Concen: Below Cal

RT: 2.83 min Scan# 286

Delta R.T. -0.01 min

Lab File: VX017187.D

Acq: 06 Jul 2020 22:29

Tgt Ion: 84 Resp: 285

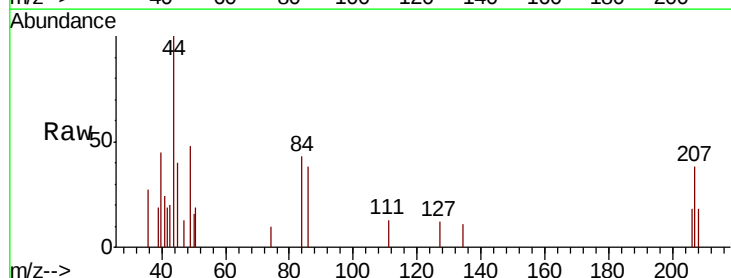
Ion Ratio Lower Upper

84 100

49 85.7 94.7 142.1#

51 43.5 28.6 42.8#

86 86.5 50.5 75.7#

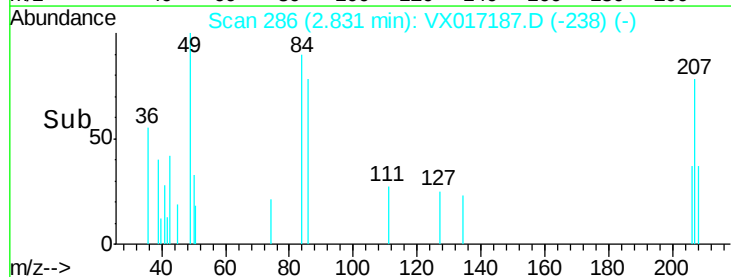
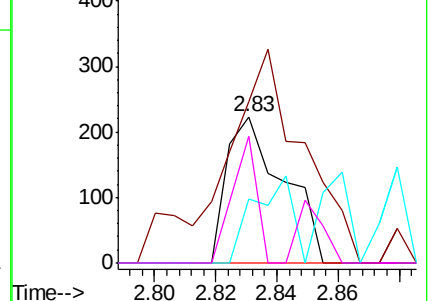


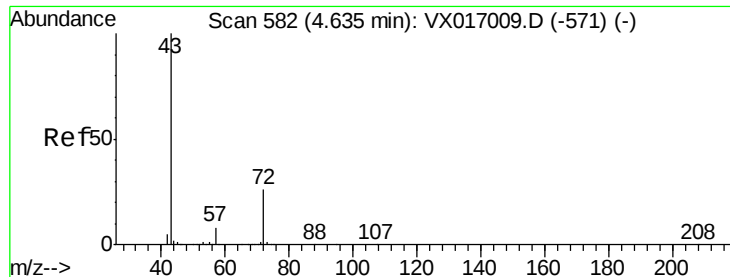
Abundance Ion 83.90 (83.60 to 84.60): VX0

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





#25

2-Butanone

Concen: 1.161 ug/l

RT: 4.65 min Scan# 585

Delta R.T. 0.02 min

Lab File: VX017187.D

Acq: 06 Jul 2020 22:29

Instrument :

MSVOA\_X

ClientSampleId :

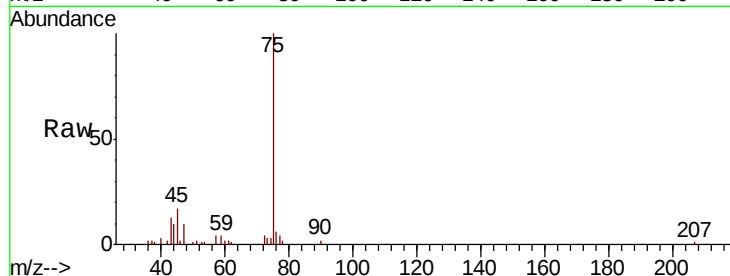
64BR-20200629

Tot Ion: 43 Resp: 2360

Ion Ratio Lower Upper

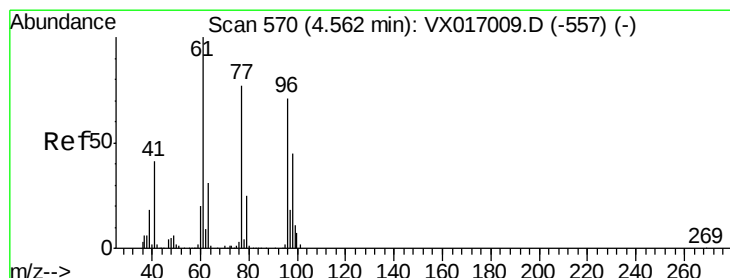
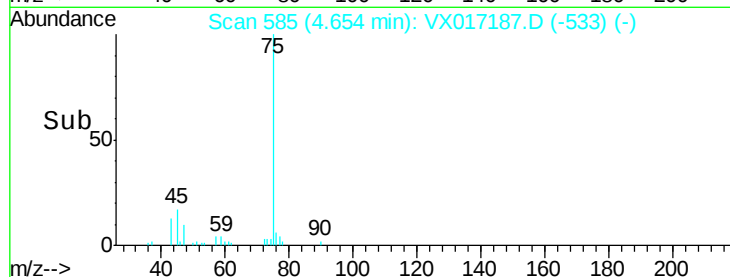
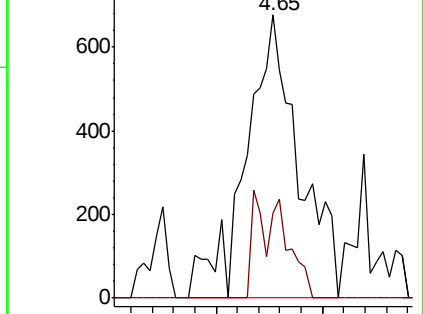
43 100

72 30.1 20.8 31.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 0.494 ug/l

RT: 4.56 min Scan# 570

Delta R.T. -0.00 min

Lab File: VX017187.D

Acq: 06 Jul 2020 22:29

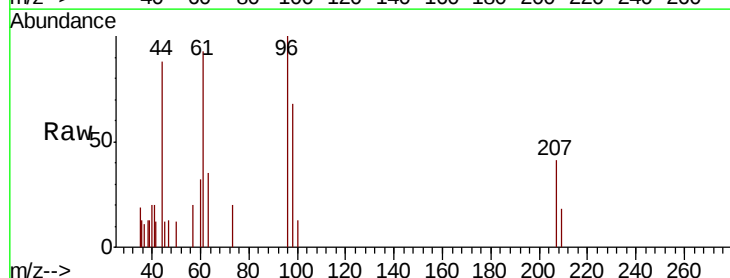
Tgt Ion: 96 Resp: 1626

Ion Ratio Lower Upper

96 100

61 101.0 0.0 282.8

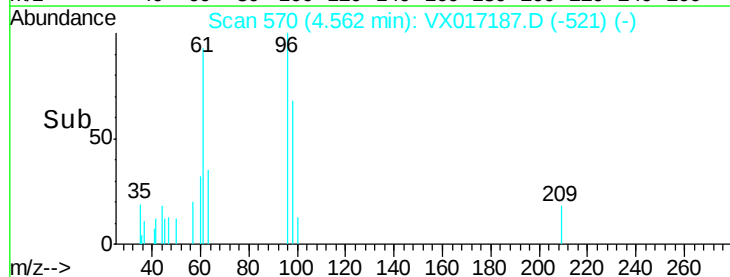
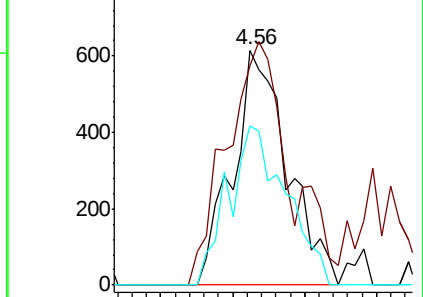
98 71.3 0.0 127.6

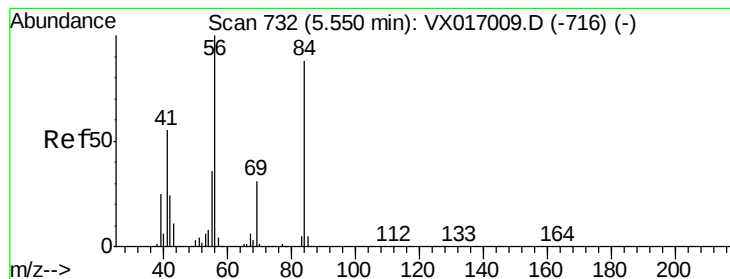


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#31

Cyclohexane

Concen: 1.187 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.09 min

Lab File: VX017187.D

Acq: 06 Jul 2020 22:29

Instrument :

MSVOA\_X

ClientSampleId :

64BR-20200629

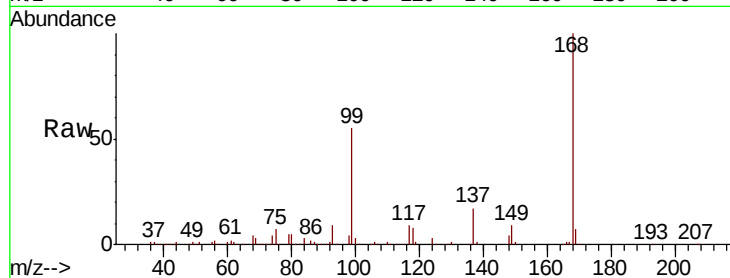
Tot Ion: 56 Resp: 5222

Ion Ratio Lower Upper

56 100

69 154.6 25.0 37.4#

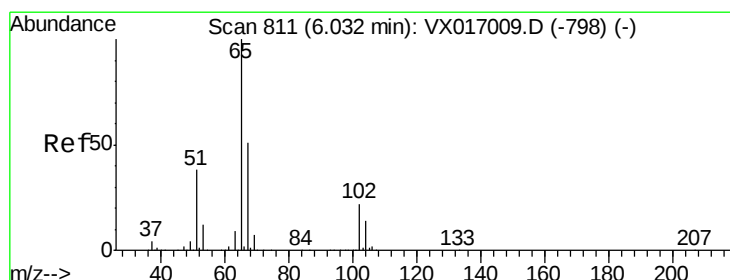
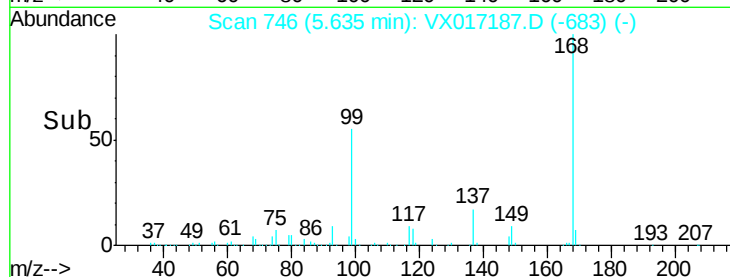
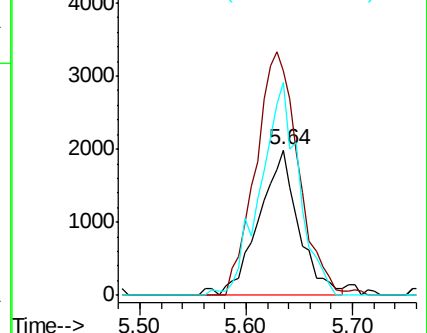
84 146.2 69.1 103.7#



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: 52.497 ug/l

RT: 6.03 min Scan# 811

Delta R.T. -0.00 min

Lab File: VX017187.D

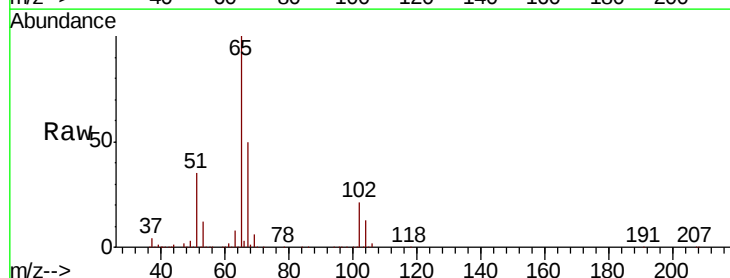
Acq: 06 Jul 2020 22:29

Tgt Ion: 65 Resp: 171129

Ion Ratio Lower Upper

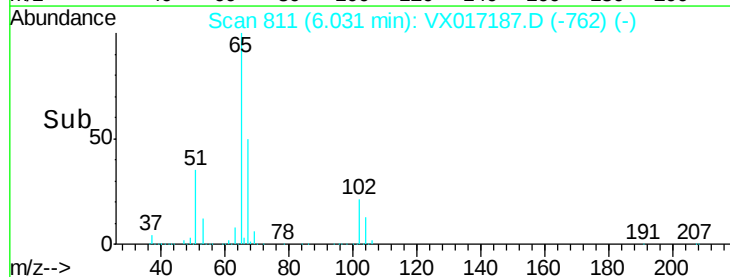
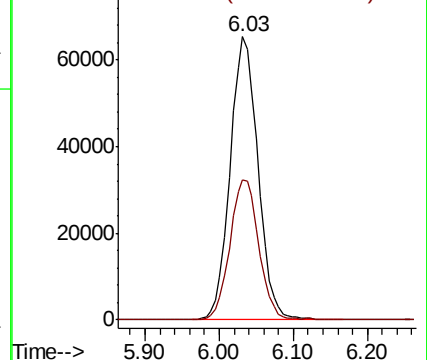
65 100

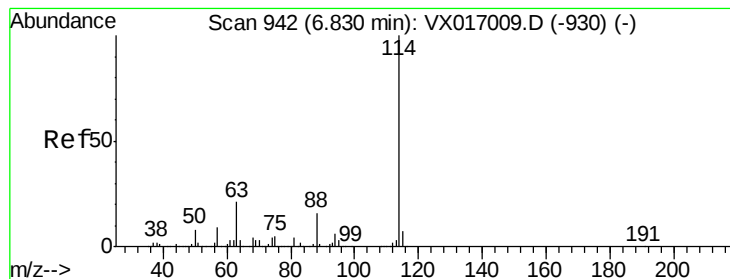
67 51.2 0.0 103.8



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: 6.83 min Scan# 942

Delta R.T. -0.00 min

Lab File: VX017187.D

Acq: 06 Jul 2020 22:29

Instrument :

MSVOA\_X

ClientSampleId :

64BR-20200629

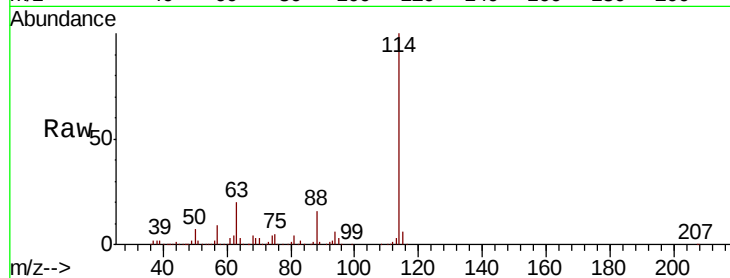
Tot Ion:114 Resp: 440457

Ion Ratio Lower Upper

114 100

63 20.0 0.0 41.4

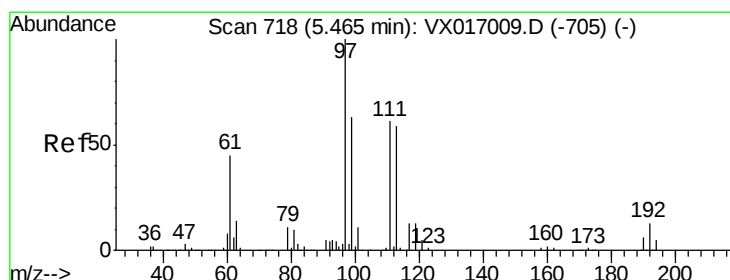
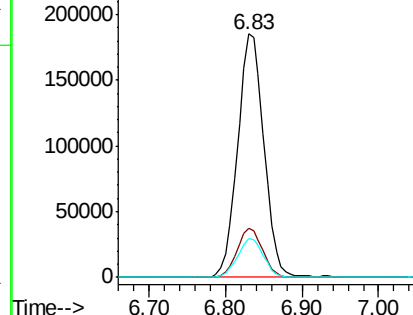
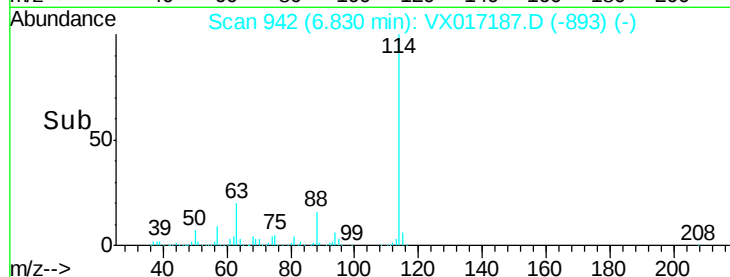
88 15.7 0.0 32.4



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: 52.570 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.01 min

Lab File: VX017187.D

Acq: 06 Jul 2020 22:29

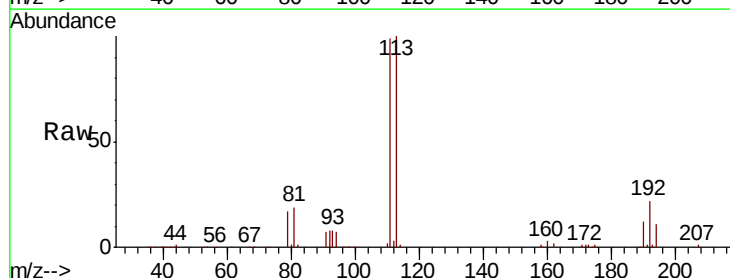
Tgt Ion:113 Resp: 146470

Ion Ratio Lower Upper

113 100

111 101.9 81.9 122.9

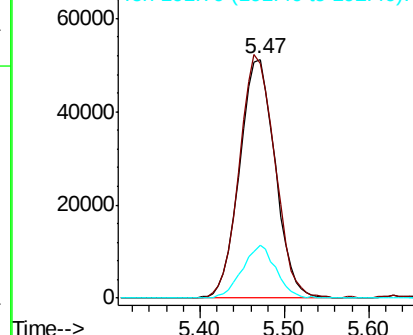
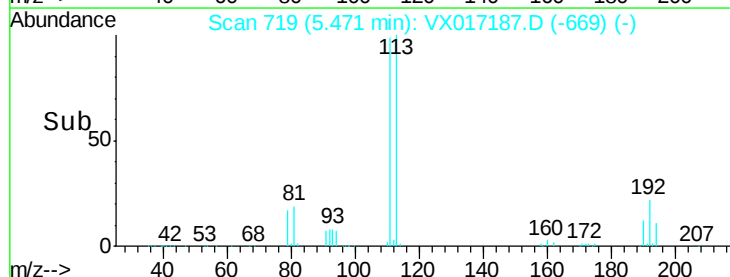
192 21.0 16.7 25.1

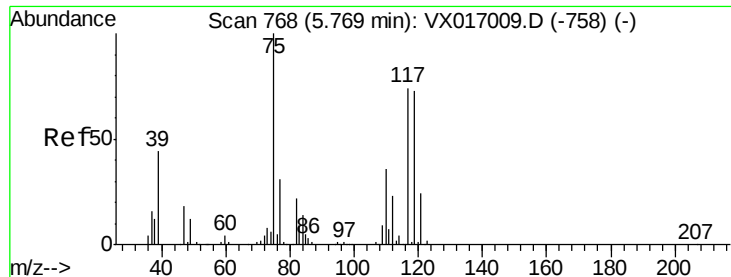


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

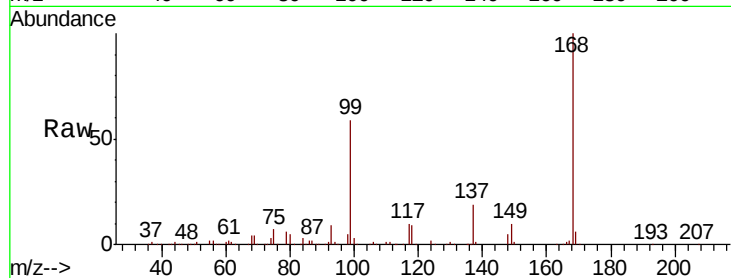




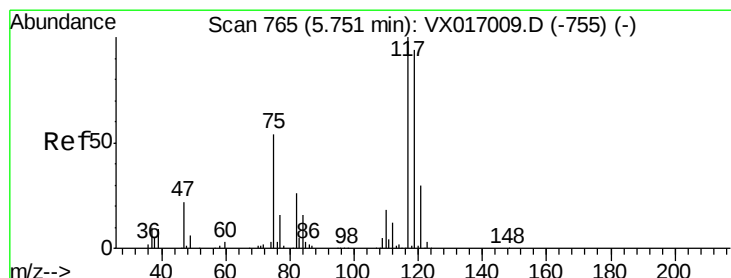
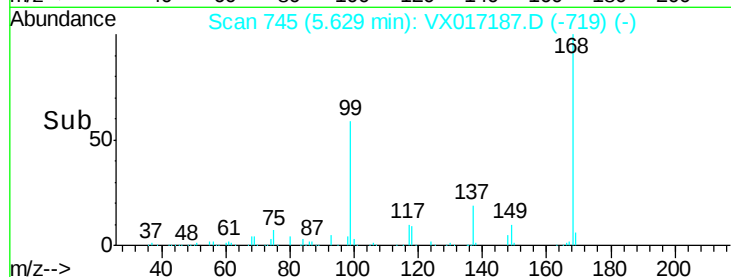
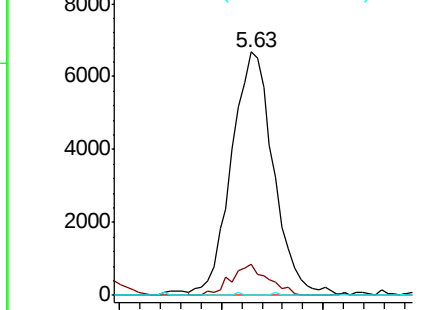
#36  
 1,1-Dichloropropene  
 Concen: 4.596 ug/l  
 RT: 5.63 min Scan# 745  
 Delta R.T. -0.14 min  
 Lab File: VX017187.D  
 Acq: 06 Jul 2020 22:29

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 64BR-20200629

Tot Ion: 75 Resp: 19131  
 Ion Ratio Lower Upper  
 75 100  
 110 11.2 18.1 54.1#  
 77 0.2 24.6 37.0#

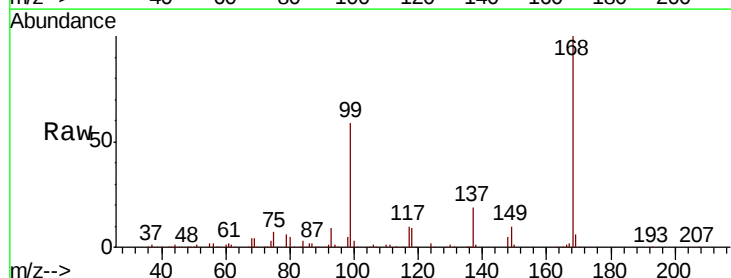


Abundance Ion 74.90 (74.60 to 75.60): VX0  
 Ion 109.90 (109.60 to 110.60): V  
 Ion 76.90 (76.60 to 77.60): VX0

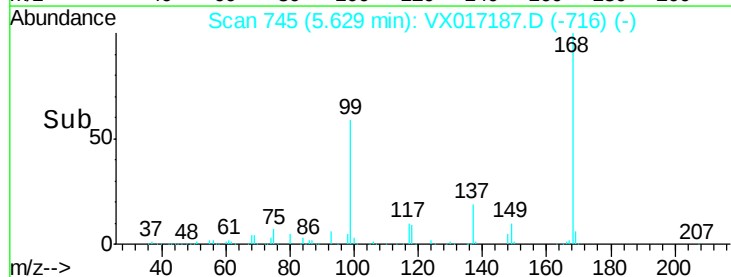
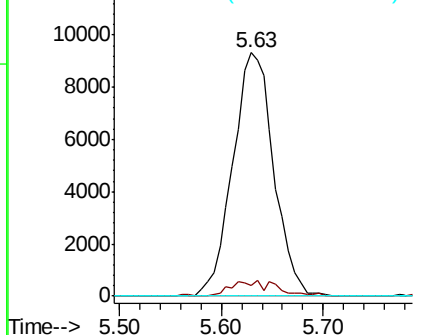


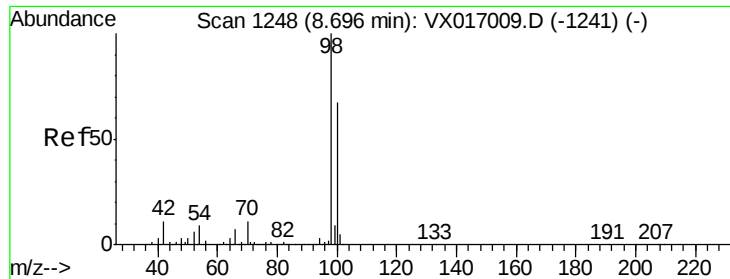
#38  
 Carbon Tetrachloride  
 Concen: 5.662 ug/l  
 RT: 5.63 min Scan# 745  
 Delta R.T. -0.12 min  
 Lab File: VX017187.D  
 Acq: 06 Jul 2020 22:29

Tgt Ion: 117 Resp: 25960  
 Ion Ratio Lower Upper  
 117 100  
 119 4.6 75.4 113.0#  
 121 0.0 23.8 35.6#



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: 52.350 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017187.D

Acq: 06 Jul 2020 22:29

Instrument :

MSVOA\_X

ClientSampleId :

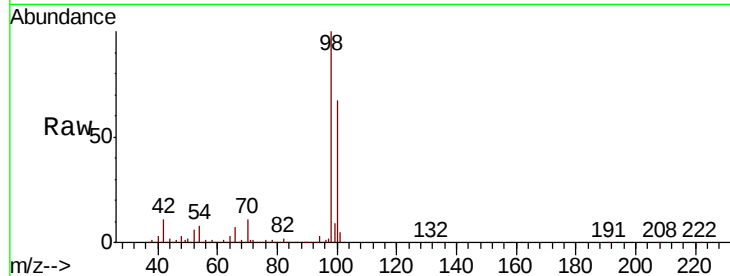
64BR-20200629

Tot Ion: 98 Resp: 539355

Ion Ratio Lower Upper

98 100

100 65.9 53.8 80.6



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V

8.70

400000

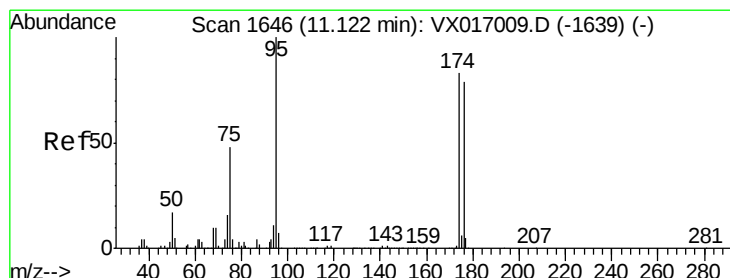
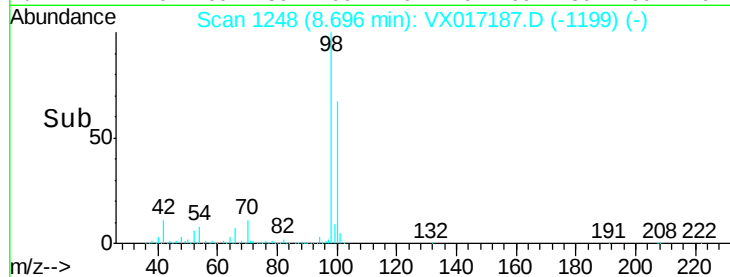
300000

200000

100000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 55.286 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017187.D

Acq: 06 Jul 2020 22:29

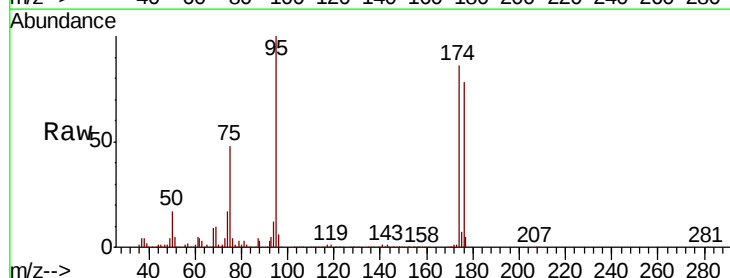
Tgt Ion: 95 Resp: 222662

Ion Ratio Lower Upper

95 100

174 85.4 0.0 164.0

176 80.5 0.0 157.6



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

11.12

250000

200000

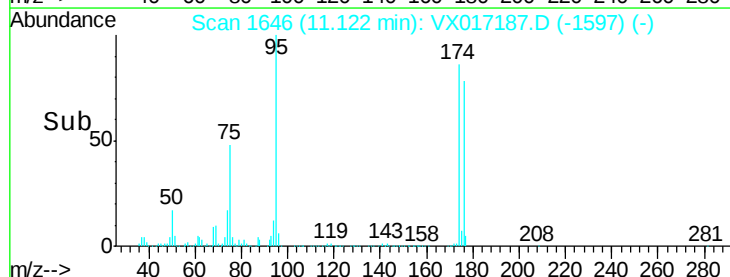
150000

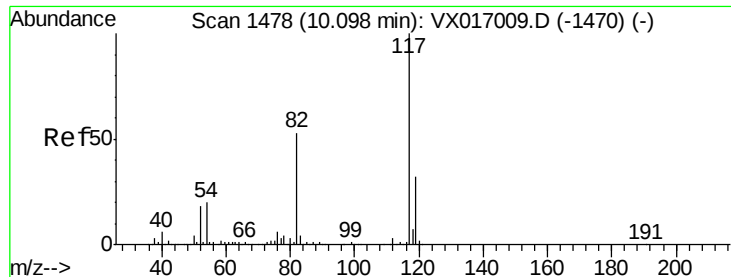
100000

50000

0

Time-->

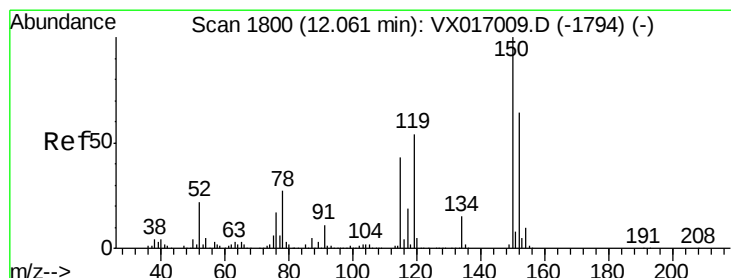
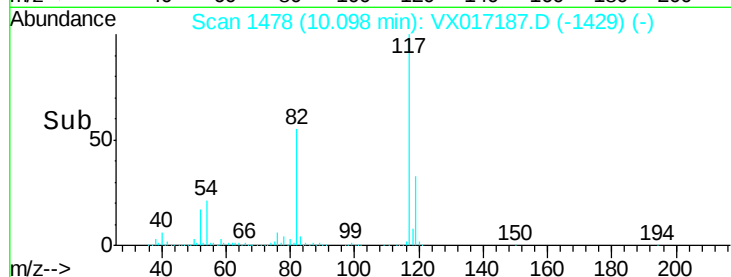
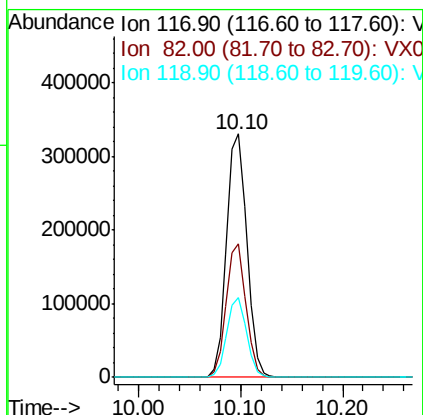
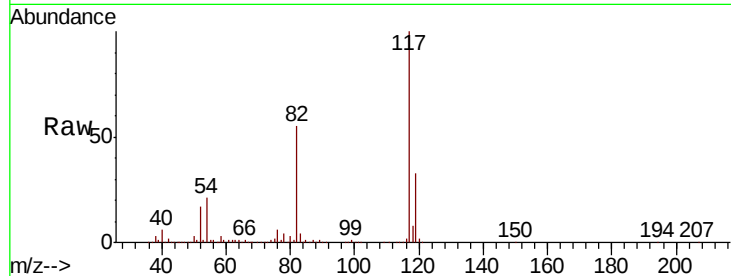




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.10 min Scan# 1478  
Delta R.T. -0.00 min  
Lab File: VX017187.D  
Acq: 06 Jul 2020 22:29

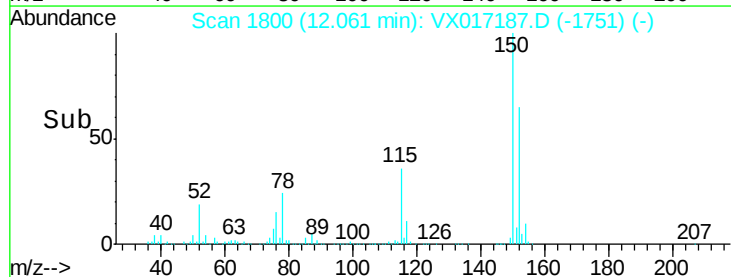
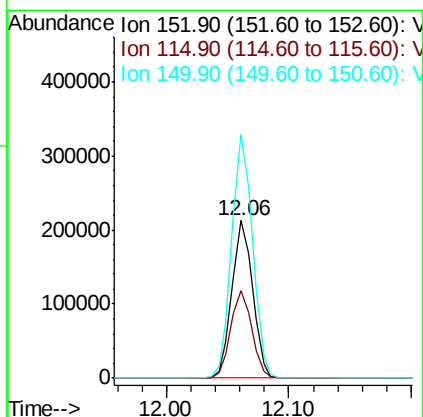
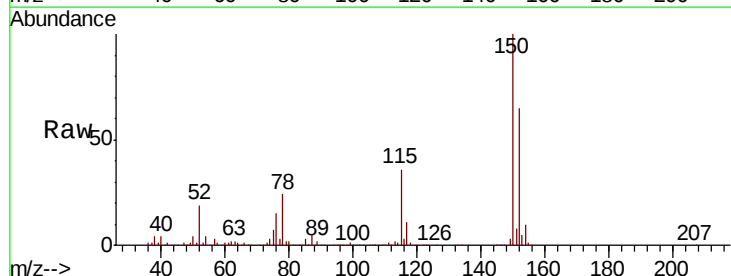
Instrument :  
MSVOA\_X  
ClientSampleId :  
64BR-20200629

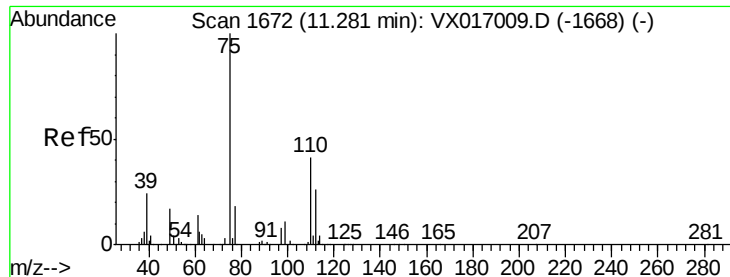
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 54.7  | 42.6  | 63.8  |
| 119     | 32.6  | 25.4  | 38.2  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.06 min Scan# 1800  
Delta R.T. -0.00 min  
Lab File: VX017187.D  
Acq: 06 Jul 2020 22:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 56.4  | 40.9  | 122.7 |
| 150     | 155.8 | 0.0   | 351.6 |





#76

1,2,3-Trichloropropane

Concen: 22.576 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017187.D

Acq: 06 Jul 2020 22:29

Instrument :

MSVOA\_X

ClientSampleId :

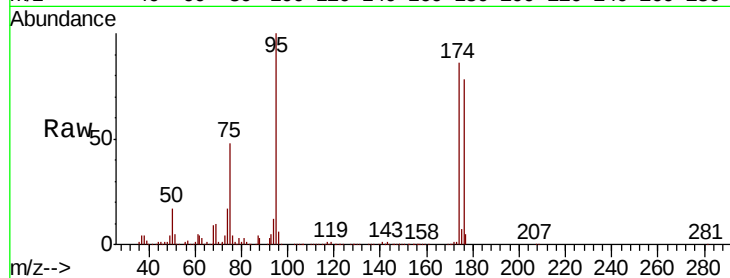
64BR-20200629

Tot Ion: 75 Resp: 110104

Ion Ratio Lower Upper

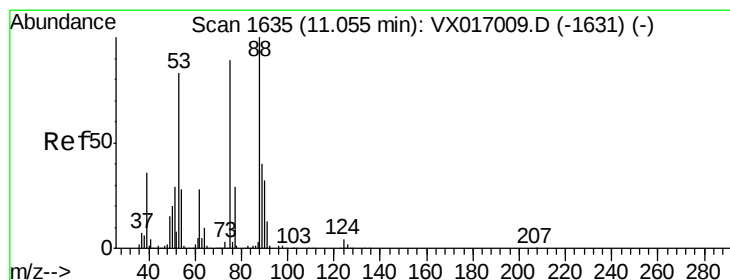
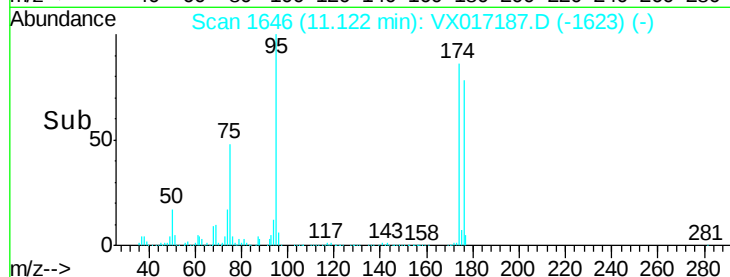
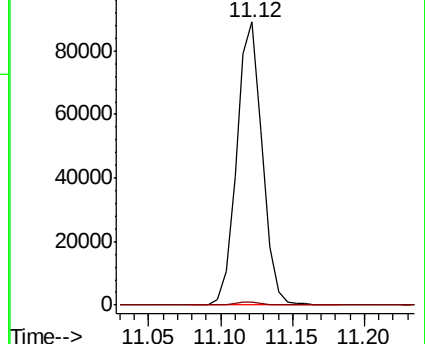
75 100

77 1.3 20.2 60.6#



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: 58.464 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.07 min

Lab File: VX017187.D

Acq: 06 Jul 2020 22:29

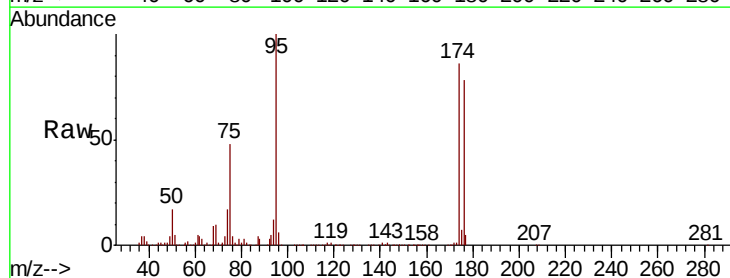
Tgt Ion: 75 Resp: 110104

Ion Ratio Lower Upper

75 100

53 0.2 72.4 108.6#

89 0.1 37.0 55.4#



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

