

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031119\  
 Data File : VX007973.D  
 Acq On : 11 Mar 2019 16:44  
 Operator : JC/SP  
 Sample : K1841-12  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TB-20190307

Quant Time: Mar 12 08:39:28 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  | 260243   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 406025   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 382742   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 187170   | 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   | 140939   | 51.34 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.68% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 132026   | 50.83 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.66% |          |
| 50) Toluene-d8              | 8.71  | 98   | 489271   | 51.30 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.60% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 178581   | 53.40 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.80% |          |

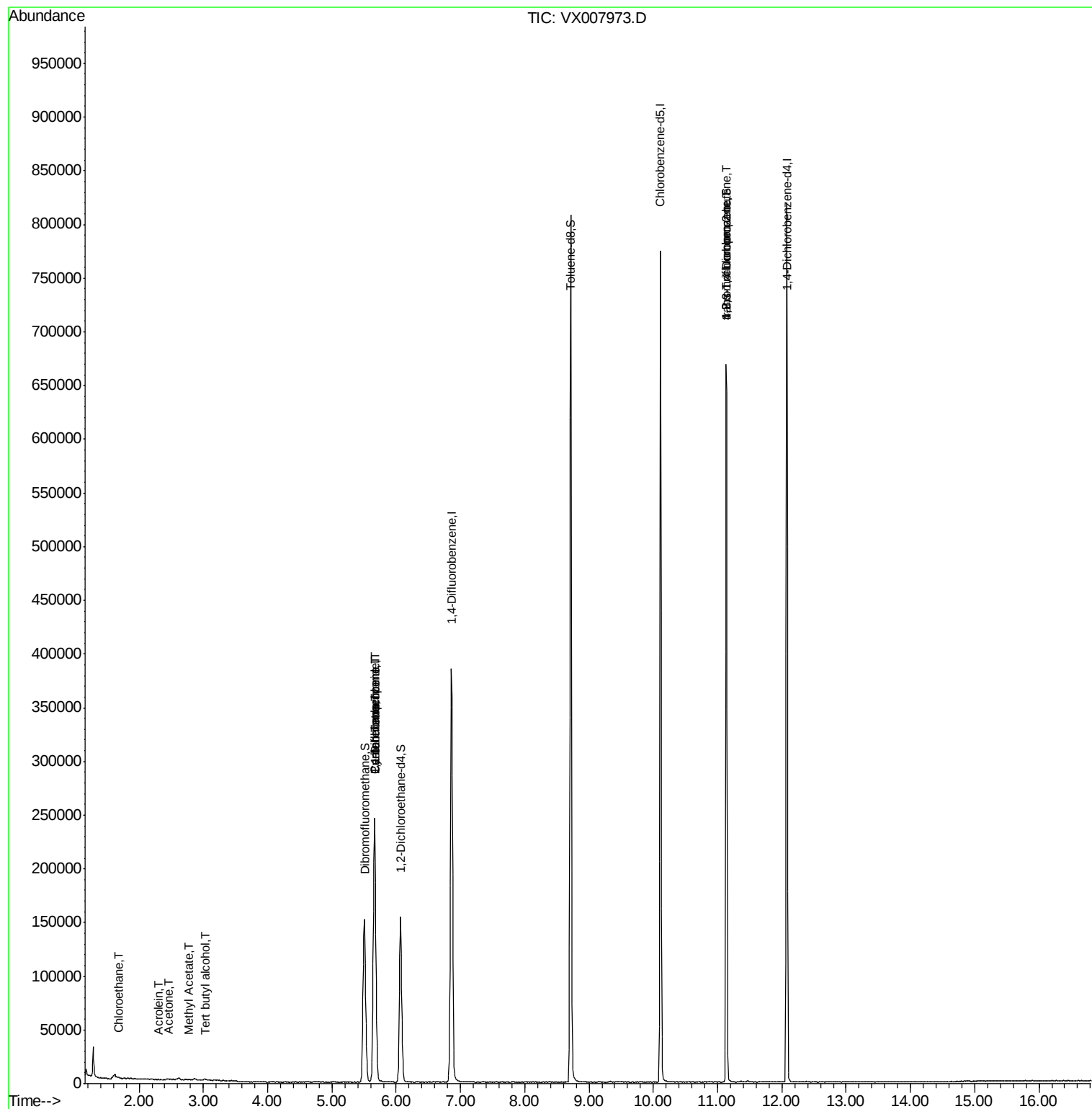
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 1.65  | 94   | 574      | Below Cal |        | 93     |
| 6) Chloroethane                | 1.68  | 64   | 1546     | 0.817     | ug/l # | 52     |
| 11) Tert butyl alcohol         | 3.03  | 59   | 880      | 1.433     | ug/l # | 73     |
| 13) Acrolein                   | 2.29  | 56   | 20       | 1.599     | ug/l # | 13     |
| 16) Acetone                    | 2.45  | 43   | 1199     | 0.755     | ug/l   | 98     |
| 17) Carbon Disulfide           | 2.57  | 76   | 1057     | Below Cal | #      | 89     |
| 18) Methyl Acetate             | 2.78  | 43   | 796      | 0.236     | ug/l   | 94     |
| 31) Cyclohexane                | 5.67  | 56   | 3876     | 0.919     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 15971    | 4.344     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.67  | 117  | 22588    | 6.472     | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 82602    | 21.031    | ug/l # | 39     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 82602    | 67.226    | ug/l # | 11     |

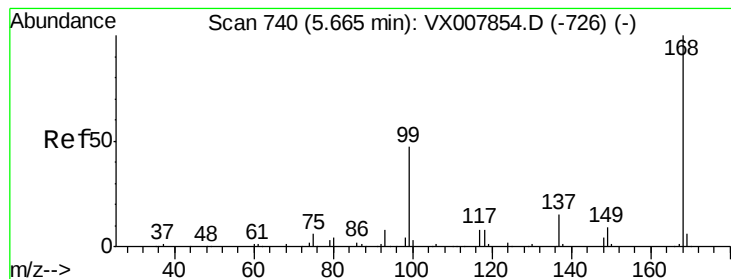
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X030619W.M  
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: VX007973.D

Acq: 11 Mar 2019 16:44

Instrument :

MSVOA\_X

ClientSampled :

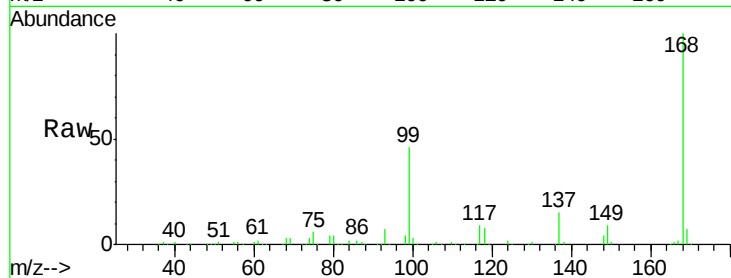
TB-20190307

Tot Ion:168 Resp: 260243

Ion Ratio Lower Upper

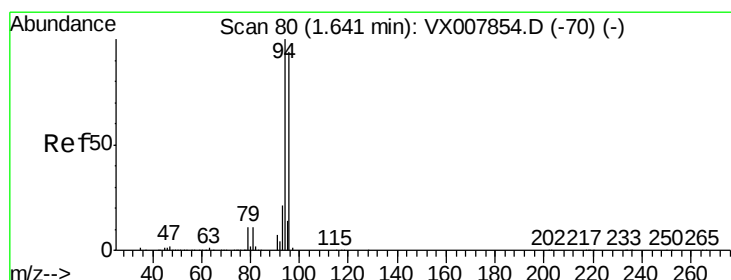
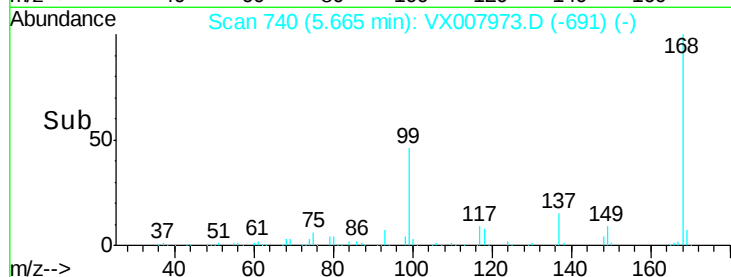
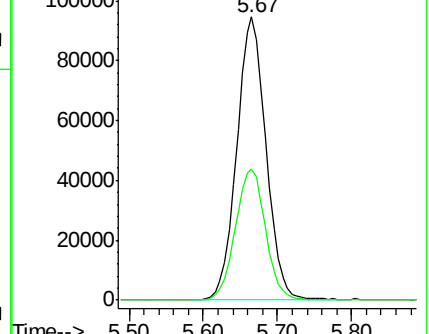
168 100

99 46.2 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX007973.D

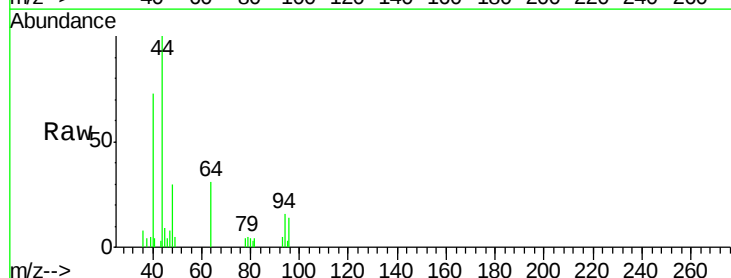
Acq: 11 Mar 2019 16:44

Tgt Ion: 94 Resp: 574

Ion Ratio Lower Upper

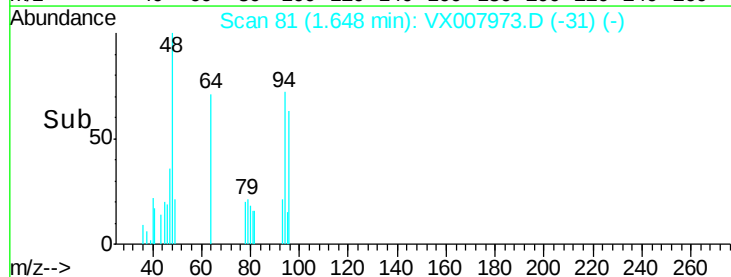
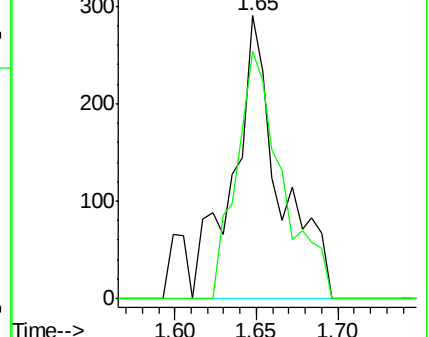
94 100

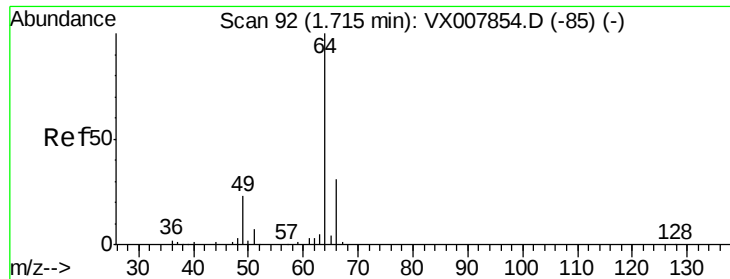
96 87.2 75.5 113.3



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.817 ug/l

RT: 1.68 min Scan# 86

Delta R.T. -0.04 min

Lab File: VX007973.D

Acq: 11 Mar 2019 16:44

Instrument :

MSVOA\_X

ClientSampled :

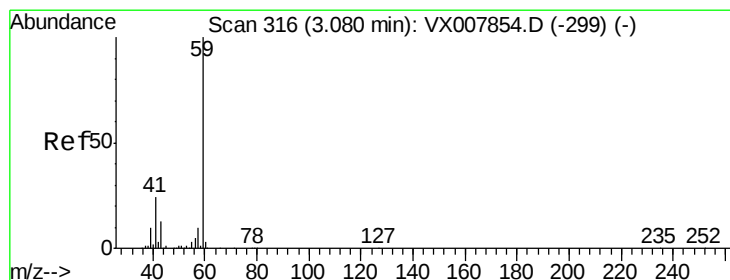
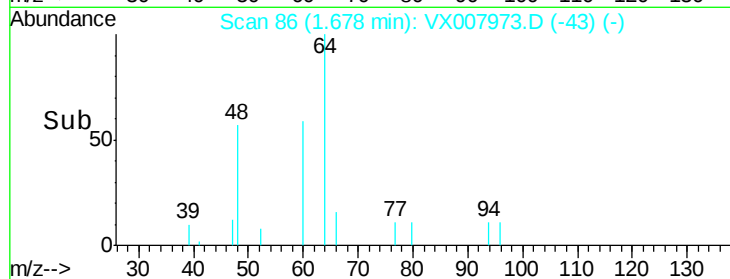
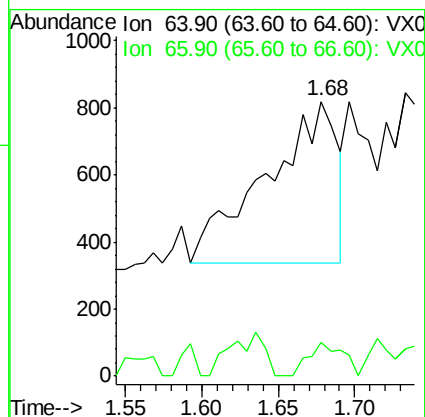
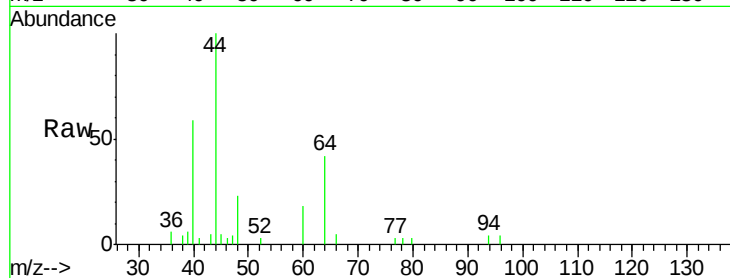
TB-20190307

Tot Ion: 64 Resp: 1546

Ion Ratio Lower Upper

64 100

66 5.0 25.2 37.8#



#11

Tert butyl alcohol

Concen: 1.433 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.05 min

Lab File: VX007973.D

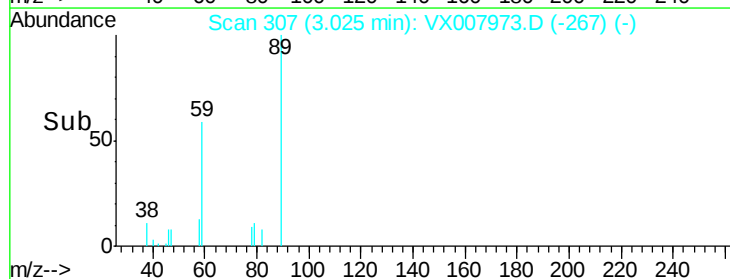
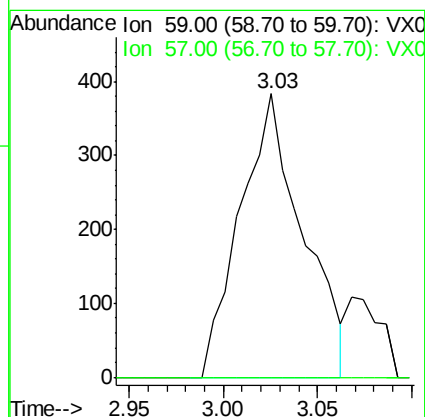
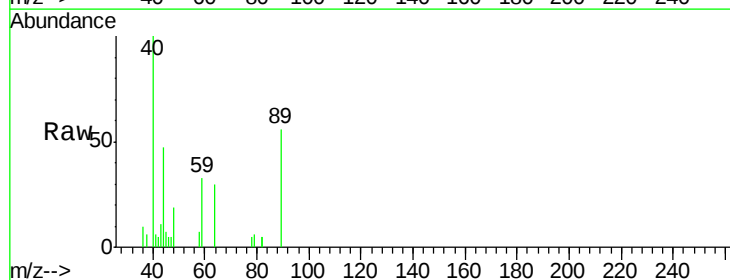
Acq: 11 Mar 2019 16:44

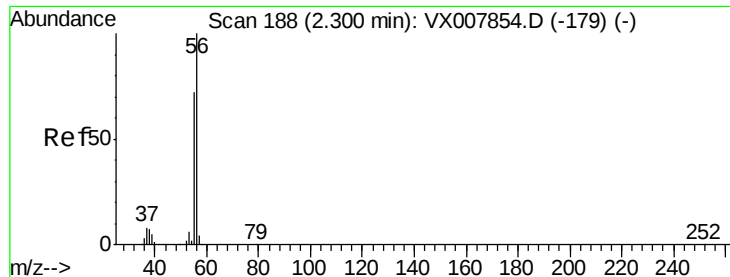
Tgt Ion: 59 Resp: 880

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#





#13

Acrolein

Concen: 1.599 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.01 min

Lab File: VX007973.D

Acq: 11 Mar 2019 16:44

Instrument :

MSVOA\_X

ClientSampleId :

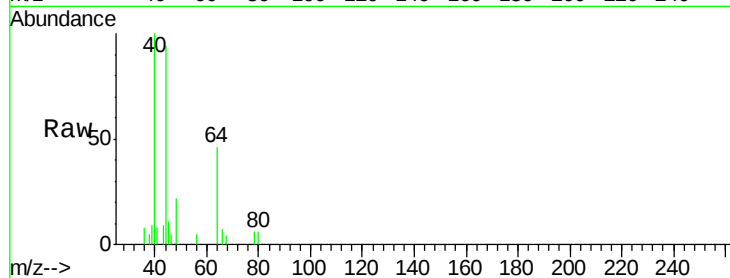
TB-20190307

Tot Ion: 56 Resp: 20

Ion Ratio Lower Upper

56 100

55 0.0 57.8 86.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.29

60

50

40

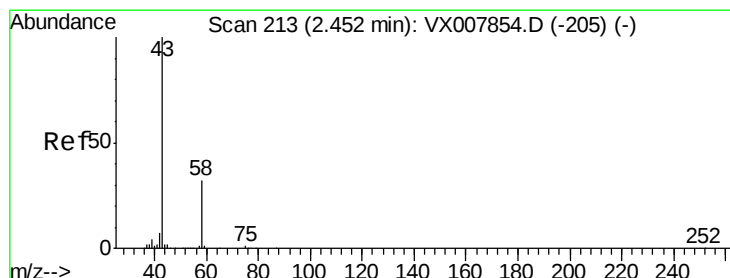
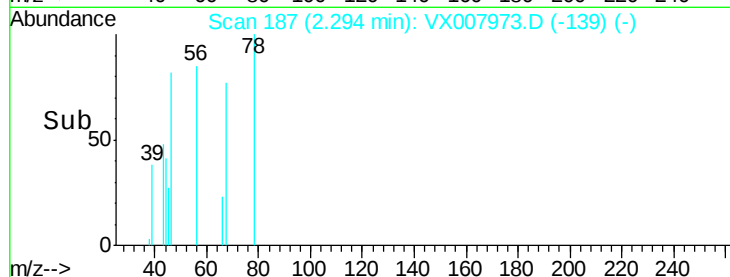
30

20

10

0

Time--> 2.27 2.28 2.29 2.30 2.31



#16

Acetone

Concen: 0.755 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.01 min

Lab File: VX007973.D

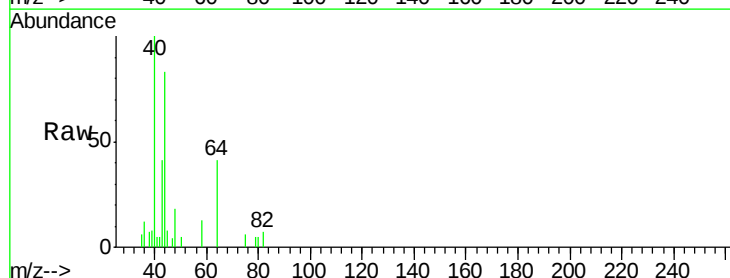
Acq: 11 Mar 2019 16:44

Tgt Ion: 43 Resp: 1199

Ion Ratio Lower Upper

43 100

58 30.8 25.5 38.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

600

500

400

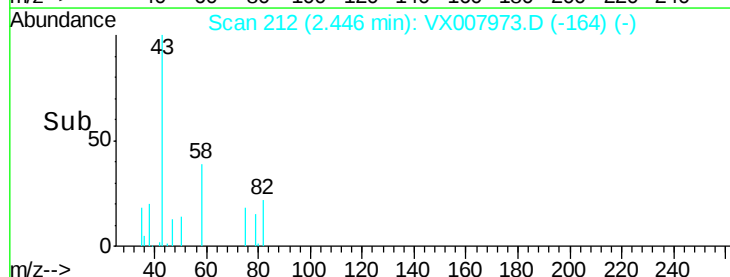
300

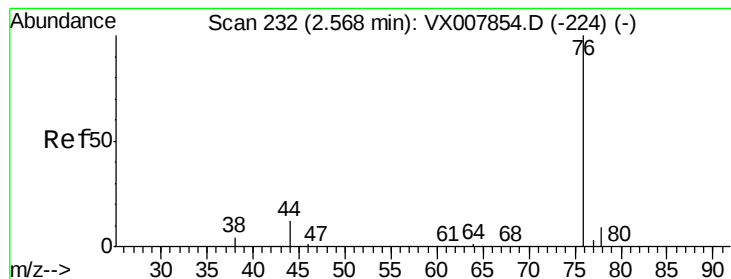
200

100

0

Time--> 2.35 2.40 2.45 2.50





#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX007973.D

Acq: 11 Mar 2019 16:44

Instrument :

MSVOA\_X

ClientSampleId :

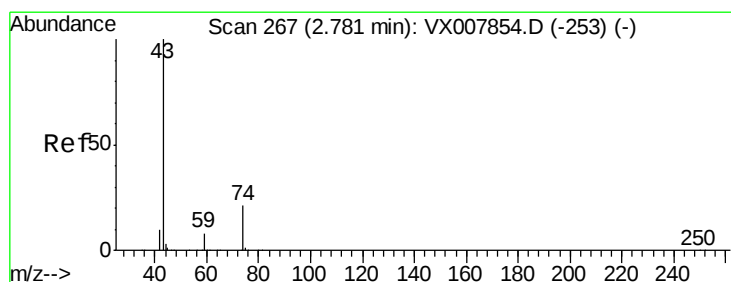
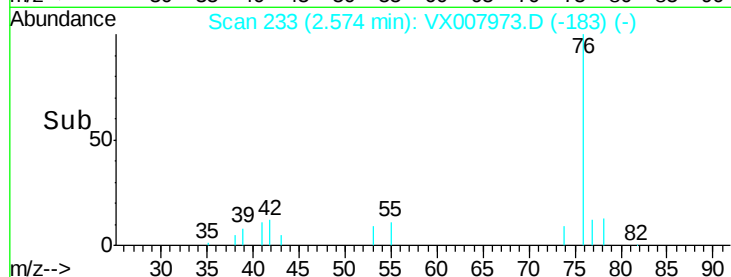
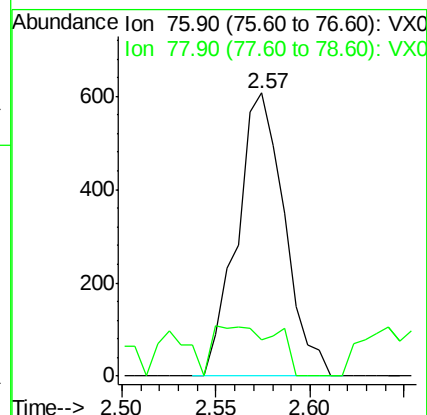
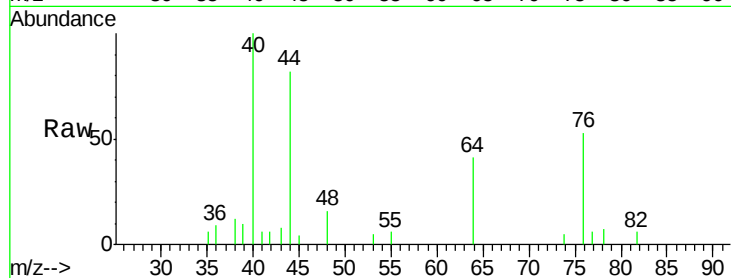
TB-20190307

Tot Ion: 76 Resp: 1057

Ion Ratio Lower Upper

76 100

78 13.0 7.2 10.8#



#18

Methyl Acetate

Concen: 0.236 ug/l

RT: 2.78 min Scan# 266

Delta R.T. -0.01 min

Lab File: VX007973.D

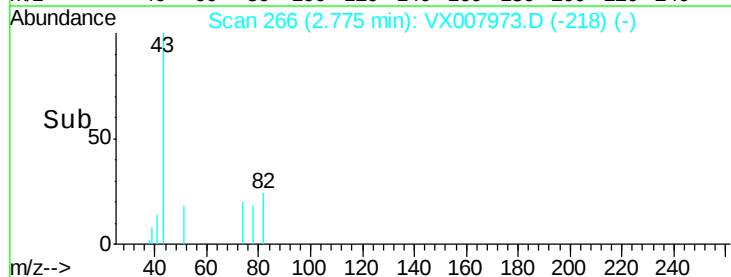
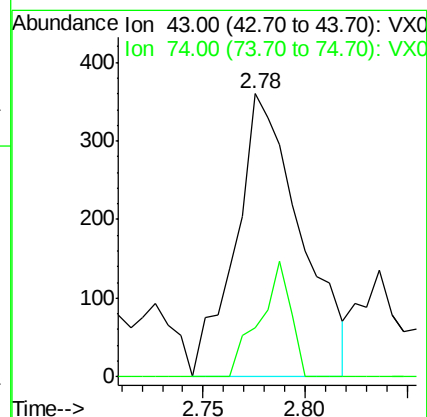
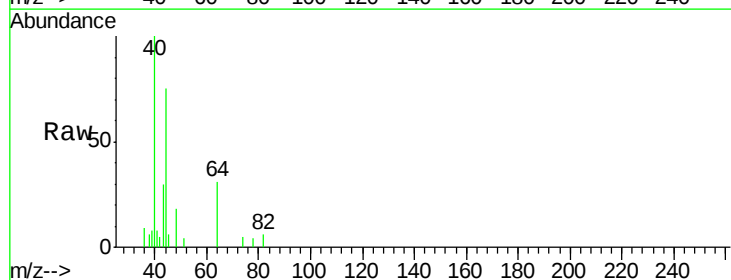
Acq: 11 Mar 2019 16:44

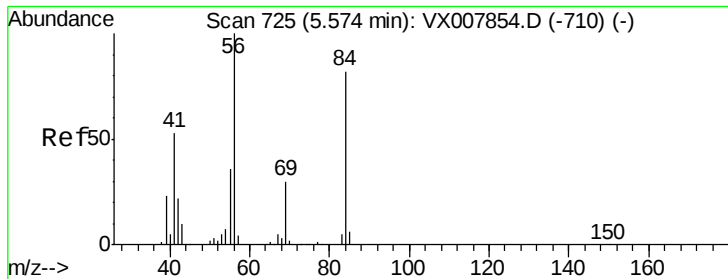
Tgt Ion: 43 Resp: 796

Ion Ratio Lower Upper

43 100

74 19.5 17.8 26.6





#31

Cyclohexane

Concen: 0.919 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX007973.D

Acq: 11 Mar 2019 16:44

Instrument :

MSVOA\_X

ClientSampleId :

TB-20190307

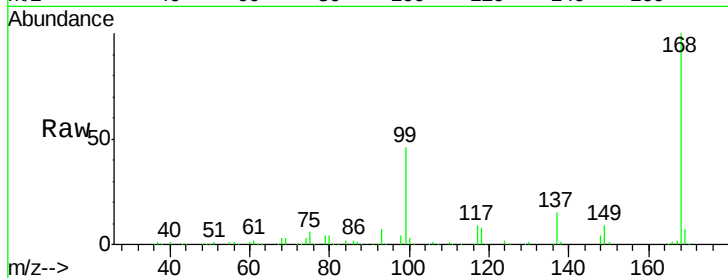
Tot Ion: 56 Resp: 3876

Ion Ratio Lower Upper

56 100

69 187.8 24.0 36.0#

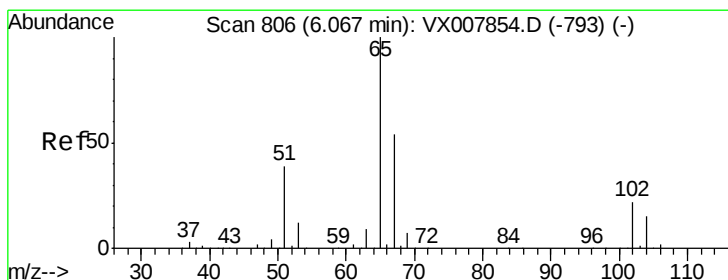
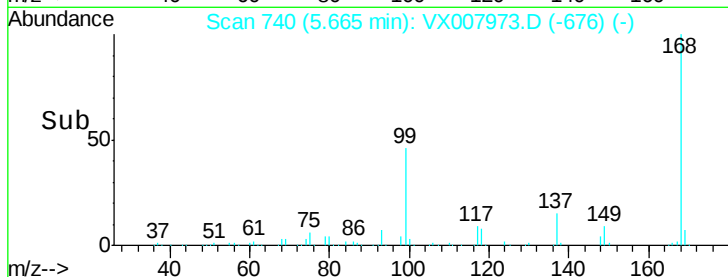
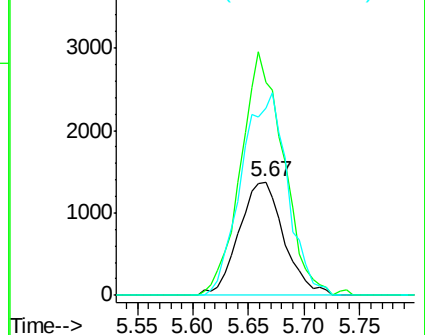
84 165.9 65.3 97.9#



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: 51.338 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007973.D

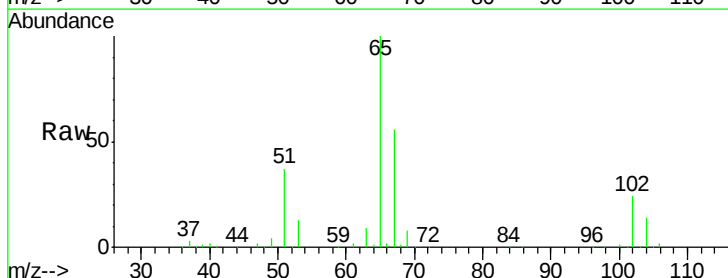
Acq: 11 Mar 2019 16:44

Tgt Ion: 65 Resp: 140939

Ion Ratio Lower Upper

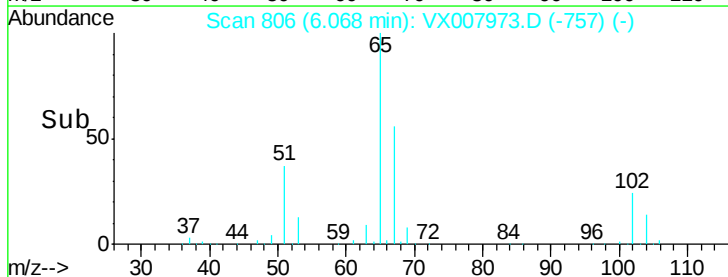
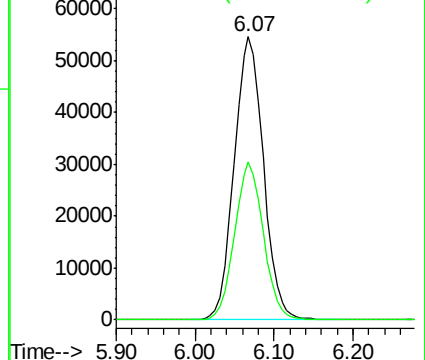
65 100

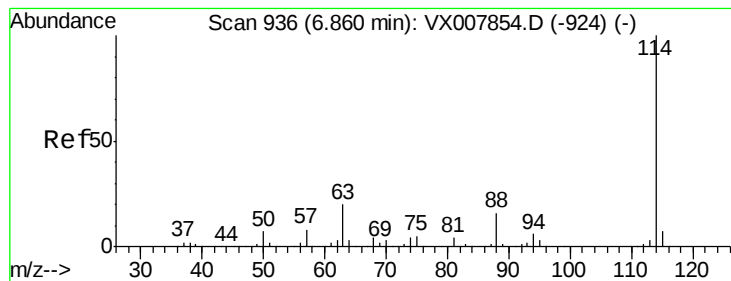
67 54.8 0.0 110.0



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: VX007973.D

Acq: 11 Mar 2019 16:44

Instrument :

MSVOA\_X

ClientSampleId :

TB-20190307

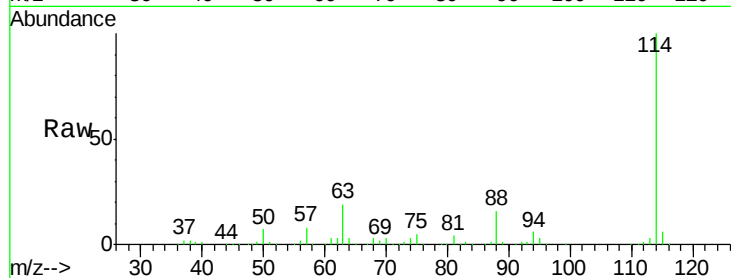
Tot Ion:114 Resp: 406025

Ion Ratio Lower Upper

114 100

63 18.8 0.0 39.8

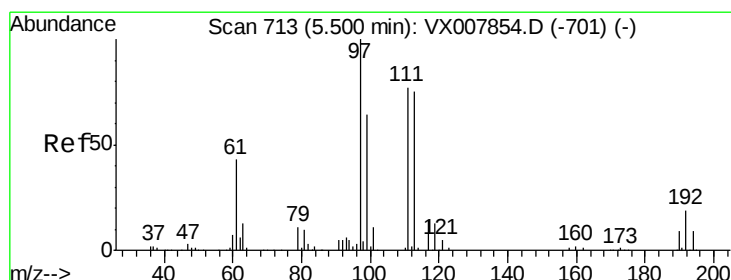
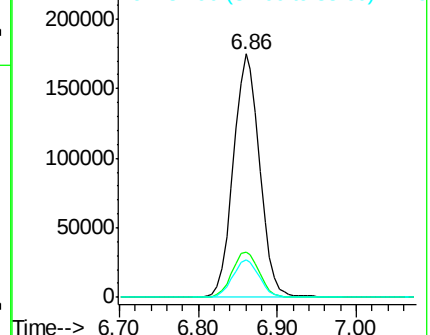
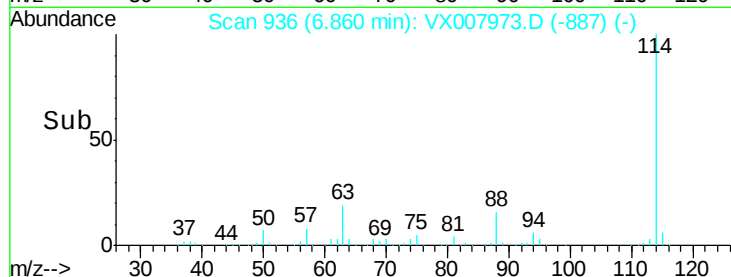
88 15.6 0.0 31.4



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: 50.834 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX007973.D

Acq: 11 Mar 2019 16:44

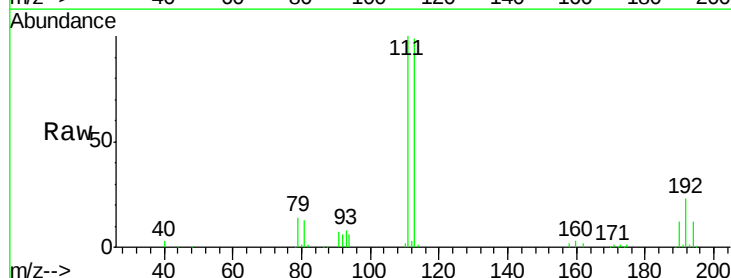
Tgt Ion:113 Resp: 132026

Ion Ratio Lower Upper

113 100

111 101.9 81.4 122.0

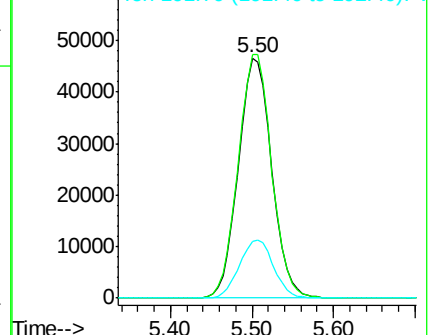
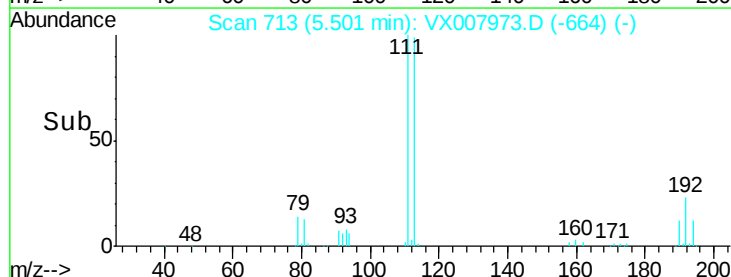
192 24.9 19.4 29.0

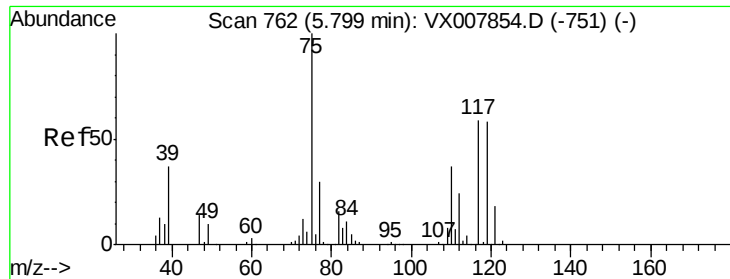


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.344 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX007973.D

Acq: 11 Mar 2019 16:44

Instrument :

MSVOA\_X

ClientSampleId :

TB-20190307

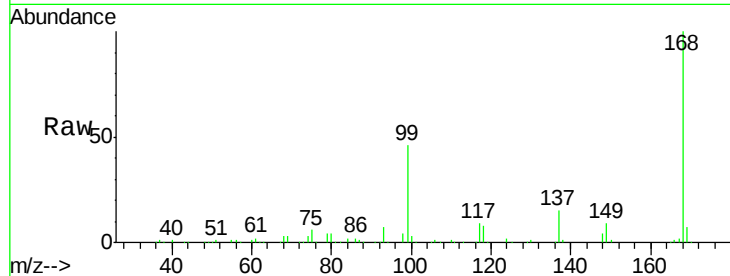
Tot Ion: 75 Resp: 15971

Ion Ratio Lower Upper

75 100

110 9.7 18.4 55.0#

77 0.0 25.0 37.4#

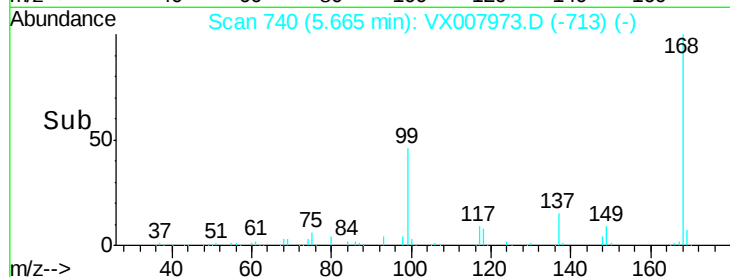


Abundance Ion 74.90 (74.60 to 75.60): VX007973.D (-713) (-)

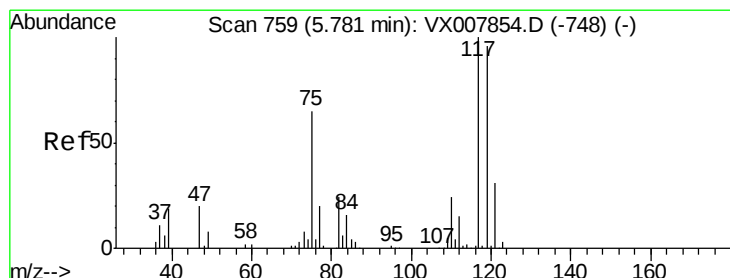
Ion 109.90 (109.60 to 110.60): VX007973.D (-713) (-)

Ion 76.90 (76.60 to 77.60): VX007973.D (-713) (-)

Time-->



Time-->



#38

Carbon Tetrachloride

Concen: 6.472 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007973.D

Acq: 11 Mar 2019 16:44

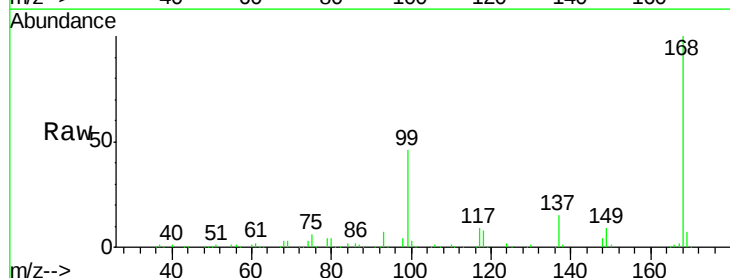
Tgt Ion: 117 Resp: 22588

Ion Ratio Lower Upper

117 100

119 4.5 76.2 114.2#

121 0.0 24.6 36.8#

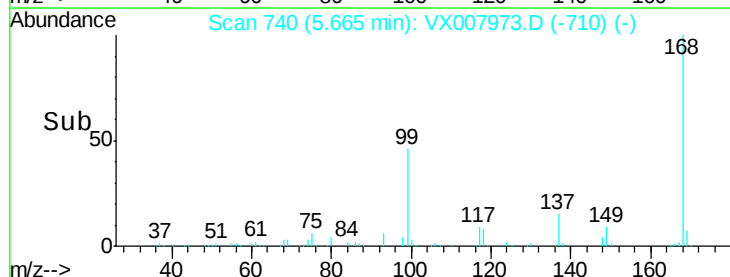


Abundance Ion 116.80 (116.50 to 117.50): VX007973.D (-710) (-)

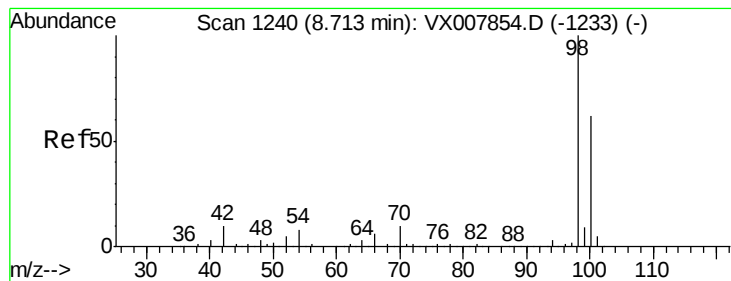
Ion 118.80 (118.50 to 119.50): VX007973.D (-710) (-)

Ion 120.80 (120.50 to 121.50): VX007973.D (-710) (-)

Time-->



Time-->



#50

Toluene-d8

Concen: 51.295 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007973.D

Acq: 11 Mar 2019 16:44

Instrument :

MSVOA\_X

ClientSampleId :

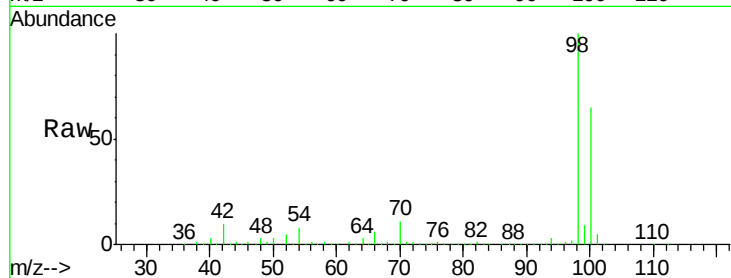
TB-20190307

Tot Ion: 98 Resp: 489271

Ion Ratio Lower Upper

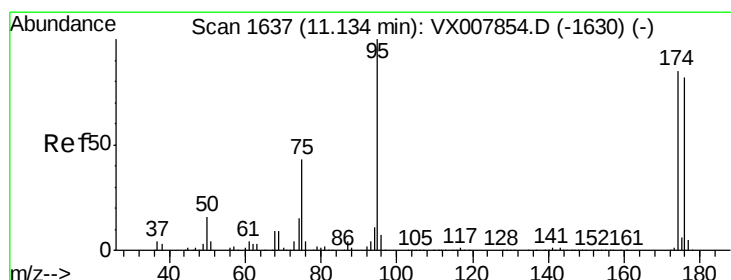
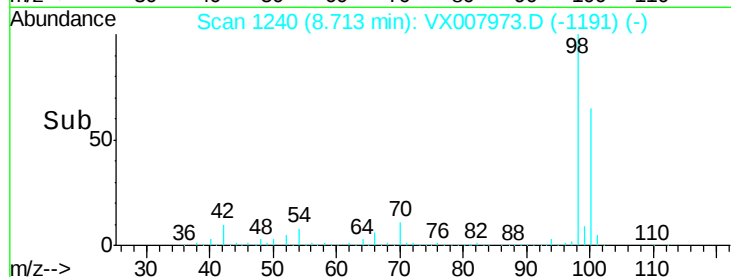
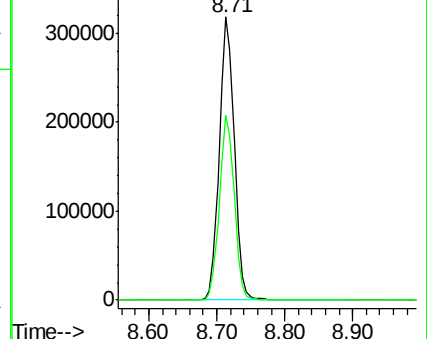
98 100

100 65.0 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX



#62

4-Bromofluorobenzene

Concen: 53.401 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX007973.D

Acq: 11 Mar 2019 16:44

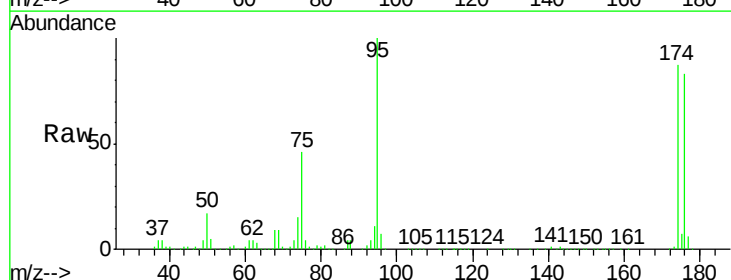
Tgt Ion: 95 Resp: 178581

Ion Ratio Lower Upper

95 100

174 94.4 0.0 182.8

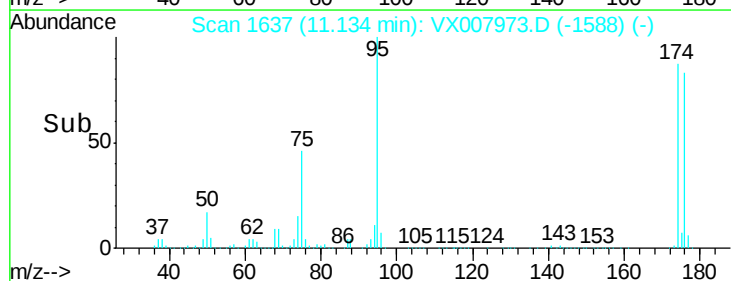
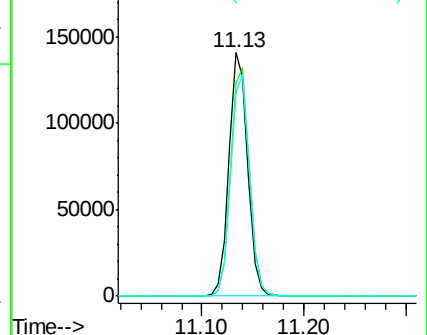
176 91.1 0.0 178.0

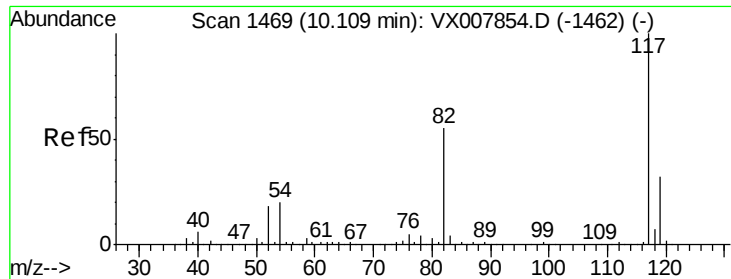


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

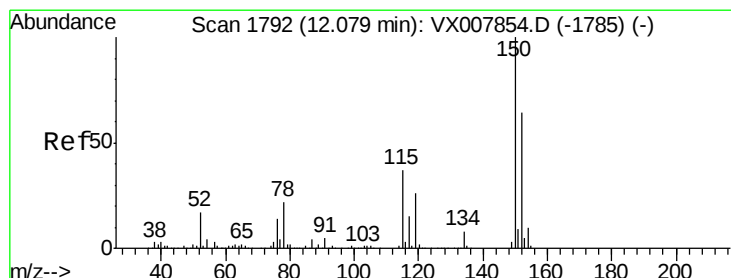
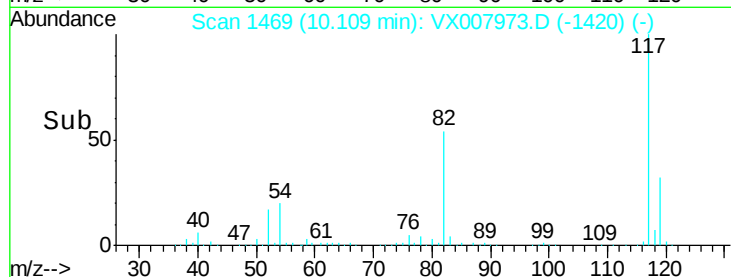
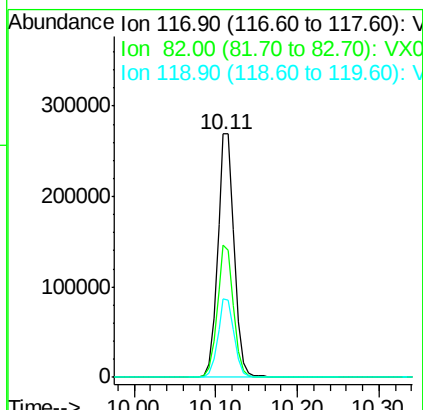
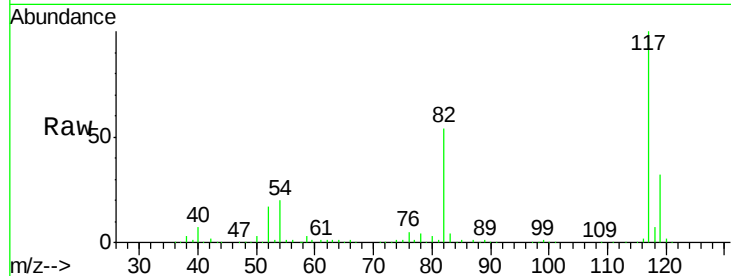




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.11 min Scan# 1469  
Delta R.T. 0.00 min  
Lab File: VX007973.D  
Acq: 11 Mar 2019 16:44

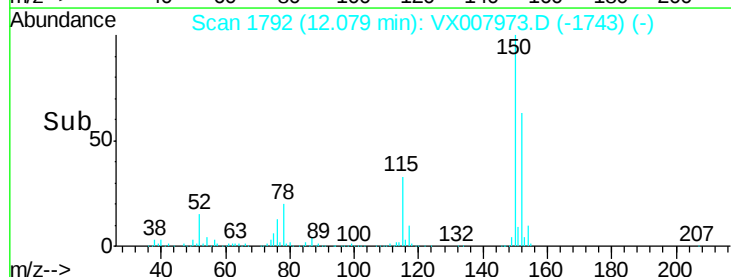
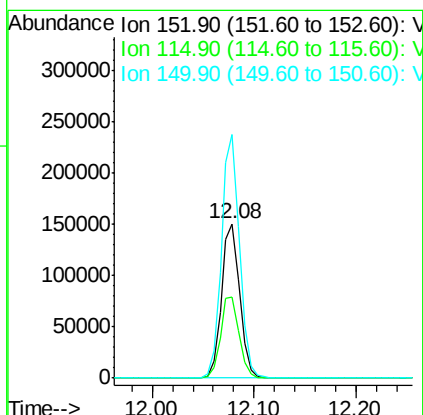
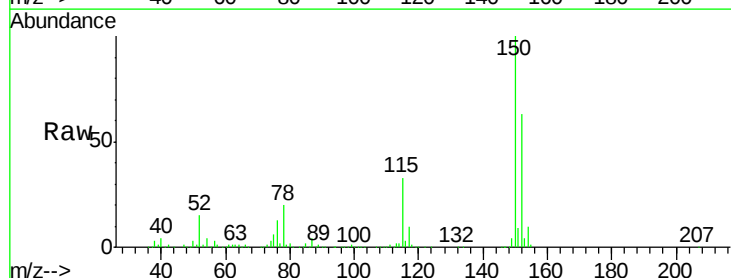
Instrument :  
MSVOA\_X  
ClientSampleId :  
TB-20190307

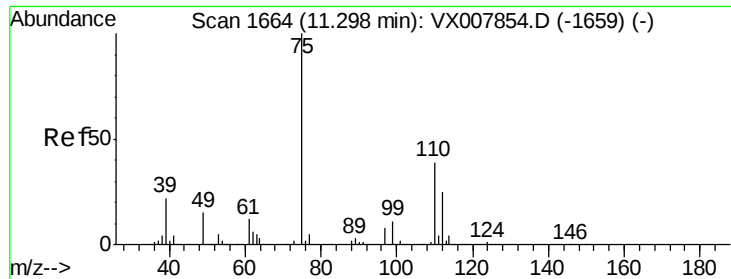
Tot Ion:117 Resp: 382742  
Ion Ratio Lower Upper  
117 100  
82 54.4 44.3 66.5  
119 32.4 25.3 37.9



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.08 min Scan# 1792  
Delta R.T. 0.00 min  
Lab File: VX007973.D  
Acq: 11 Mar 2019 16:44

Tgt Ion:152 Resp: 187170  
Ion Ratio Lower Upper  
152 100  
115 54.1 38.6 115.7  
150 156.4 0.0 348.4





#76

1,2,3-Trichloropropane

Concen: 21.031 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007973.D

Acq: 11 Mar 2019 16:44

Instrument :

MSVOA\_X

ClientSampleId :

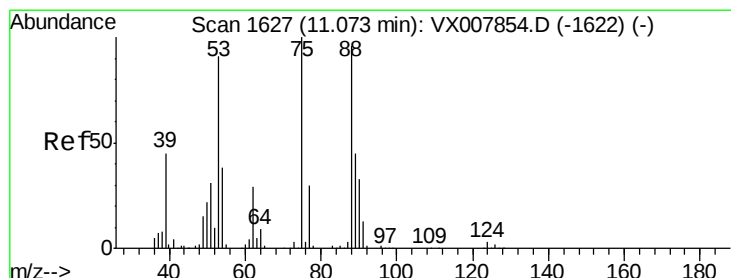
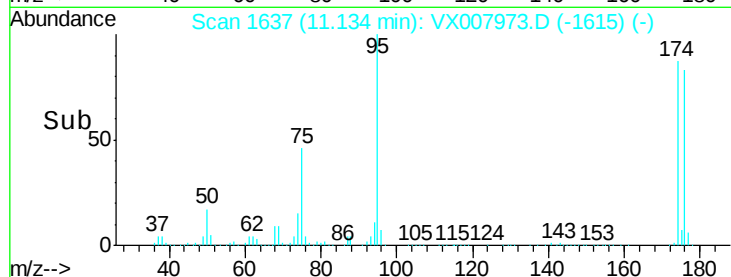
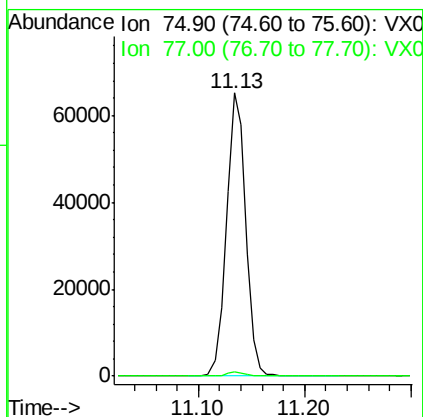
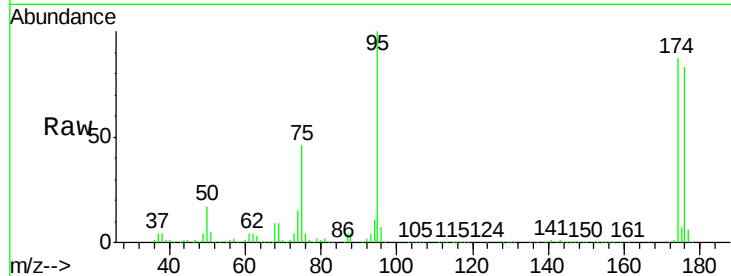
TB-20190307

Tot Ion: 75 Resp: 82602

Ion Ratio Lower Upper

75 100

77 1.3 18.9 56.7#



#81

trans-1,4-Dichloro-2-butene

Concen: 67.226 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007973.D

Acq: 11 Mar 2019 16:44

Tgt Ion: 75 Resp: 82602

Ion Ratio Lower Upper

75 100

53 0.1 76.1 114.1#

89 0.0 36.3 54.5#

