

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX062619\  
 Data File : VX010470.D  
 Acq On : 26 Jun 2019 18:06  
 Operator : JC/SP  
 Sample : K3527-16  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jun 27 01:14:35 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X061919W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jun 20 03:31:56 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.67  | 168  | 258159   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.86  | 114  | 400962   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.11 | 117  | 363915   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.08 | 152  | 167627   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.06  | 65   | 124162   | 51.30 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.60% |          |
| 35) Dibromofluoromethane    | 5.50  | 113  | 123866   | 50.49 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.98% |          |
| 50) Toluene-d8              | 8.71  | 98   | 472557   | 50.35 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.70% |          |
| 62) 4-Bromofluorobenzene    | 11.13 | 95   | 156755   | 46.26 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.52%  |          |

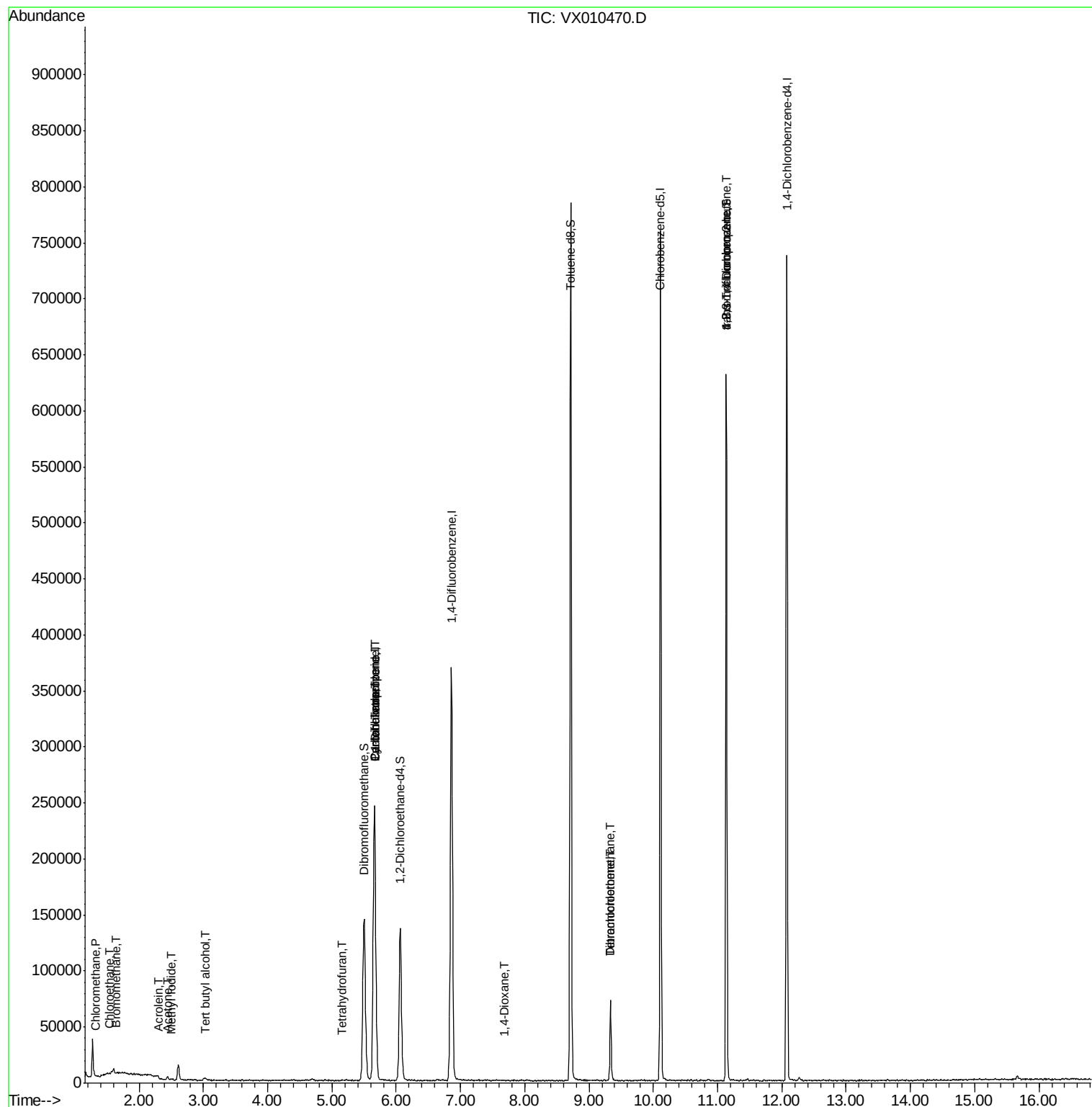
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 542      | 0.259  | ug/l # | 85     |
| 5) Bromomethane                | 1.64  | 94   | 235      | 0.211  | ug/l # | 54     |
| 6) Chloroethane                | 1.54  | 64   | 4226     | 3.129  | ug/l # | 44     |
| 10) Methyl Iodide              | 2.51  | 142  | 736      | 0.235  | ug/l # | 94     |
| 11) Tert butyl alcohol         | 3.03  | 59   | 1780     | 2.810  | ug/l   | 95     |
| 13) Acrolein                   | 2.29  | 56   | 348      | 0.828  | ug/l # | 47     |
| 16) Acetone                    | 2.45  | 43   | 3400     | 2.803  | ug/l   | 98     |
| 29) Tetrahydrofuran            | 5.17  | 42   | 312      | 0.283  | ug/l # | 54     |
| 31) Cyclohexane                | 5.66  | 56   | 4518     | 1.292  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.67  | 75   | 16028    | 5.030  | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 5.66  | 117  | 22833    | 6.618  | ug/l # | 15     |
| 49) 1,4-Dioxane                | 7.68  | 88   | 25       | 0.344  | ug/l # | 1      |
| 60) Dibromochloromethane       | 9.34  | 129  | 13368    | 4.428  | ug/l # | 11     |
| 64) Tetrachloroethene          | 9.34  | 164  | 13944    | 4.737  | ug/l   | 97     |
| 76) 1,2,3-Trichloropropane     | 11.13 | 75   | 74517    | 24.395 | ug/l # | 33     |
| 81) trans-1,4-Dichloro-2-buten | 11.13 | 75   | 74517    | 56.911 | ug/l # | 16     |

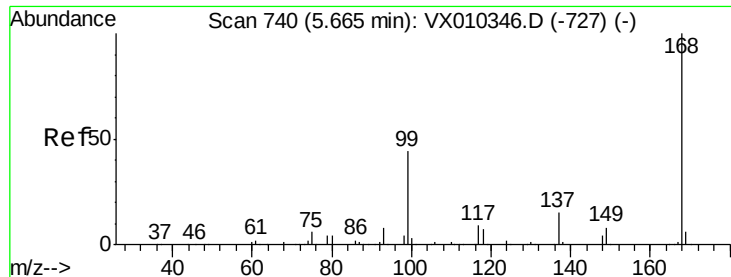
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX062619\  
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Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Jun 27 01:14:35 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X061919W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jun 20 03:31:56 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: VX010470.D

Acq: 26 Jun 2019 18:06

Instrument :

MSVOA\_X

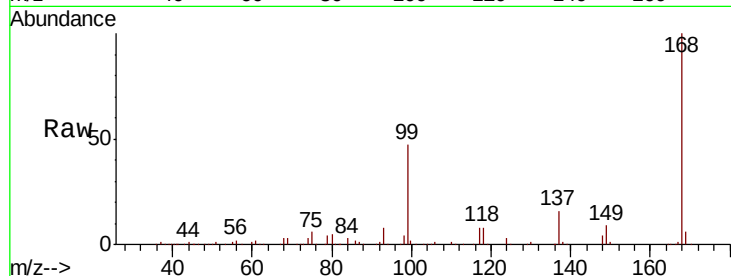
ClientSampleId :

Tot Ion:168 Resp: 258159

Ion Ratio Lower Upper

168 100

99 47.3 35.5 53.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

100000

80000

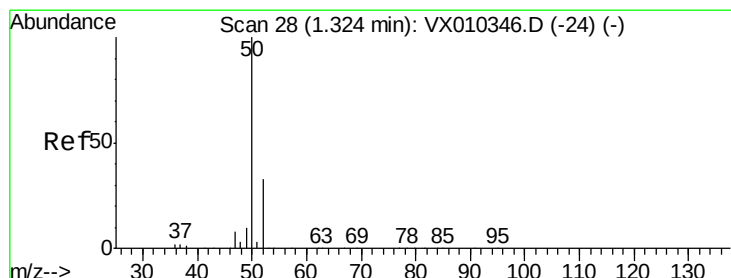
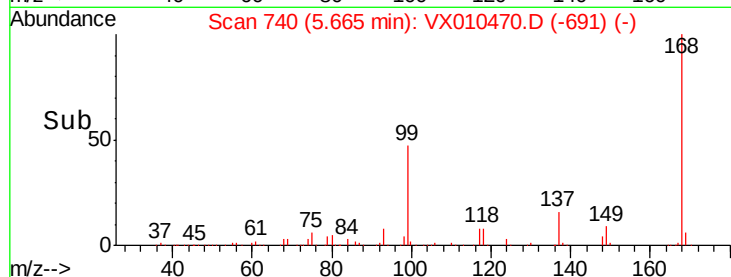
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.259 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX010470.D

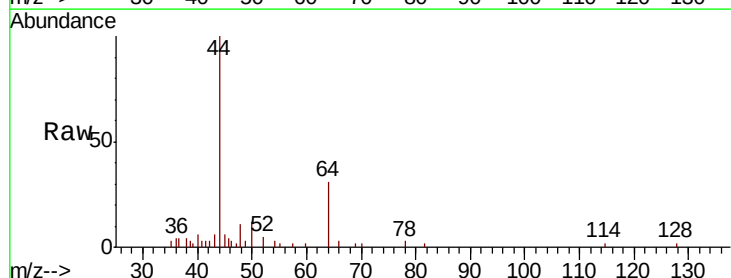
Acq: 26 Jun 2019 18:06

Tgt Ion: 50 Resp: 542

Ion Ratio Lower Upper

50 100

52 41.8 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

500

400

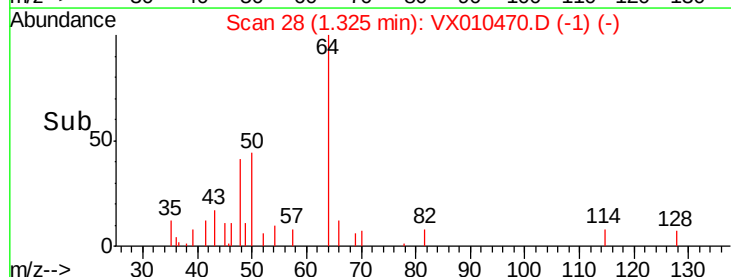
300

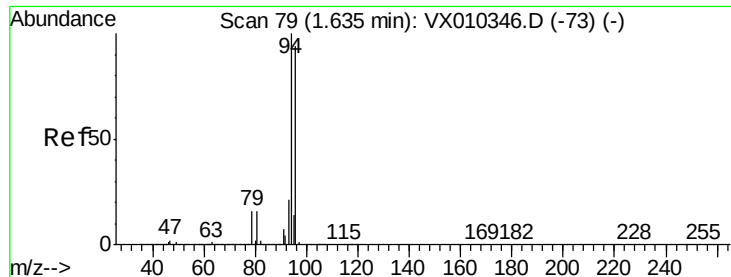
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: 0.211 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX010470.D

Acq: 26 Jun 2019 18:06

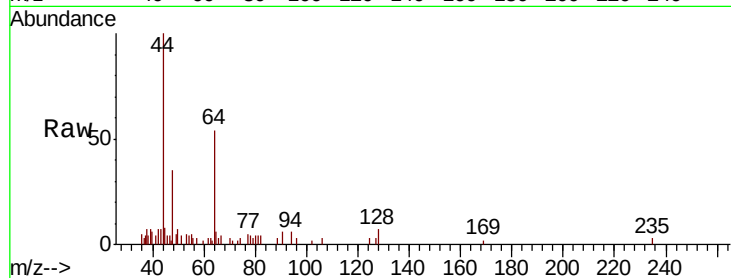
Instrument :  
MSVOA\_X  
ClientSampled :

Tot Ion: 94 Resp: 235

Ion Ratio Lower Upper

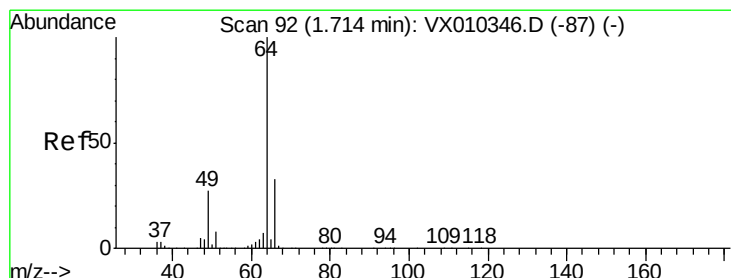
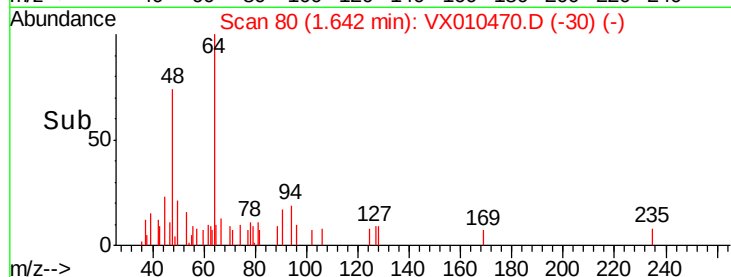
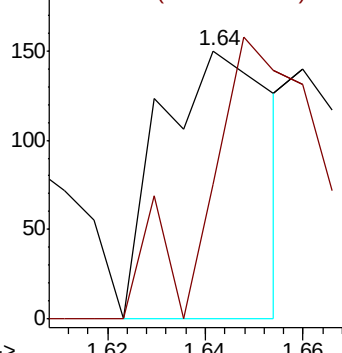
94 100

96 50.0 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: 3.129 ug/l

RT: 1.54 min Scan# 63

Delta R.T. -0.18 min

Lab File: VX010470.D

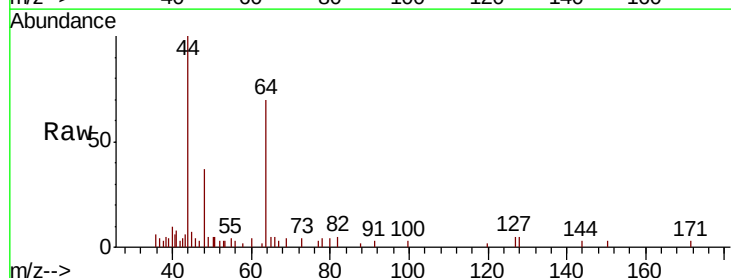
Acq: 26 Jun 2019 18:06

Tgt Ion: 64 Resp: 4226

Ion Ratio Lower Upper

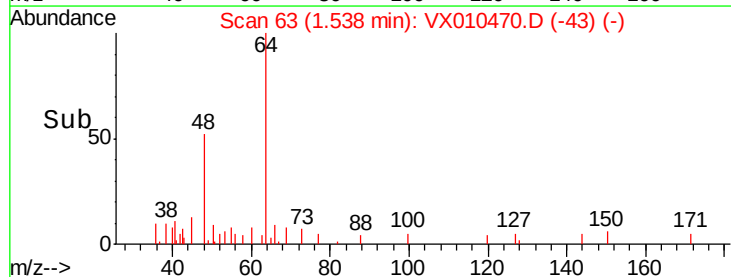
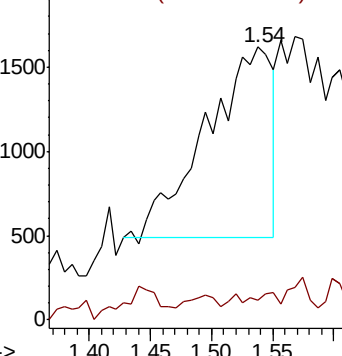
64 100

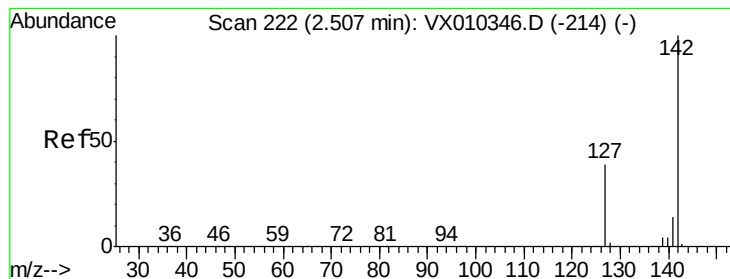
66 1.6 26.6 40.0#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#10

Methvl Iodide

Concen: 0.235 ug/l

RT: 2.51 min Scan# 223

Delta R.T. 0.01 min

Lab File: VX010470.D

Acq: 26 Jun 2019 18:06

Instrument :

MSVOA\_X

ClientSampleId :

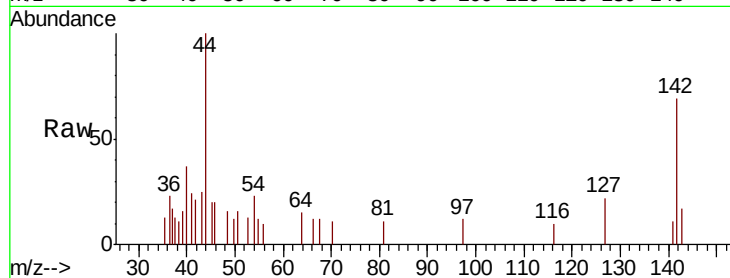
Tot Ion:142 Resp: 736

Ion Ratio Lower Upper

142 100

127 40.6 31.1 46.7

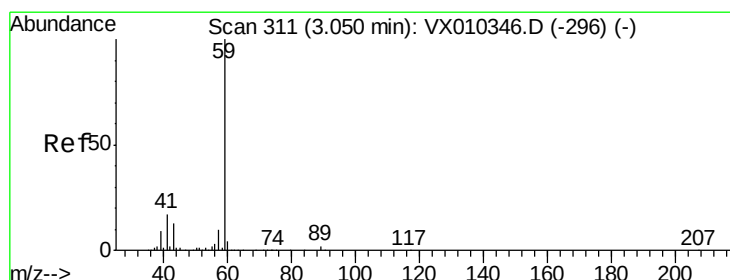
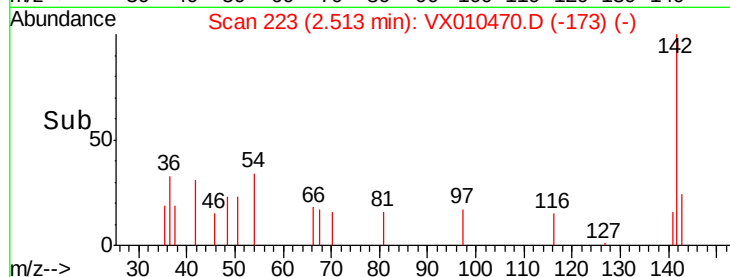
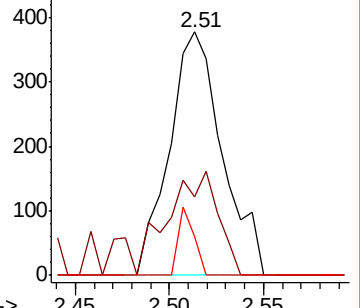
141 8.2 11.2 16.8#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 2.810 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.02 min

Lab File: VX010470.D

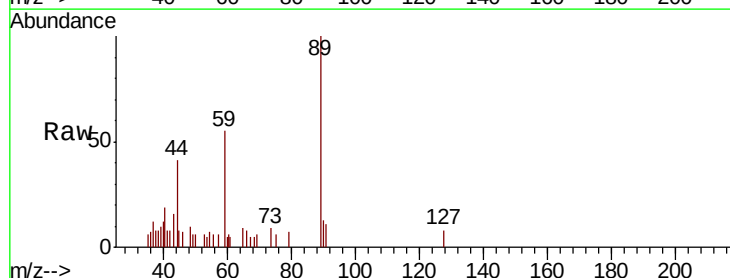
Acq: 26 Jun 2019 18:06

Tgt Ion: 59 Resp: 1780

Ion Ratio Lower Upper

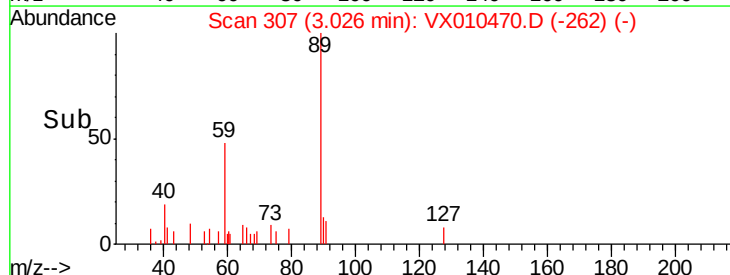
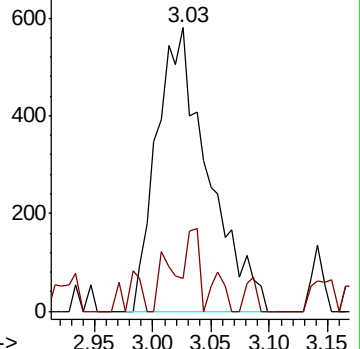
59 100

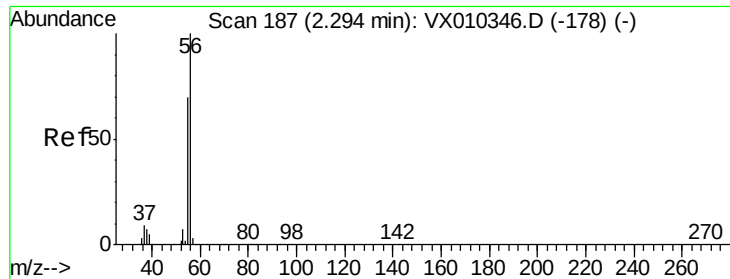
57 7.9 7.7 11.5



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#13

Acrolein

Concen: 0.828 ug/l

RT: 2.29 min Scan# 186

Delta R.T. -0.01 min

Lab File: VX010470.D

Acq: 26 Jun 2019 18:06

Instrument :

MSVOA\_X

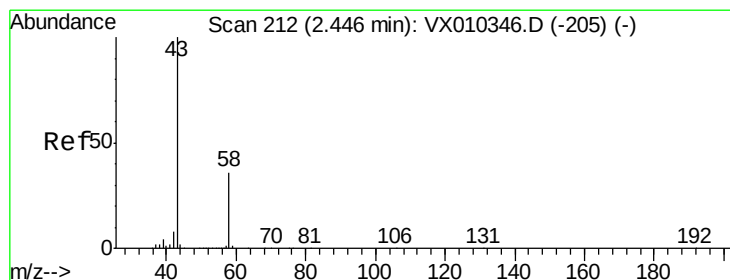
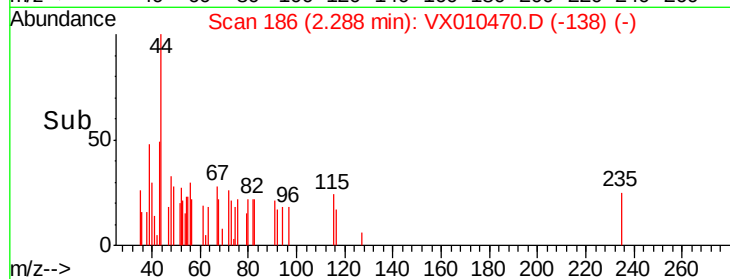
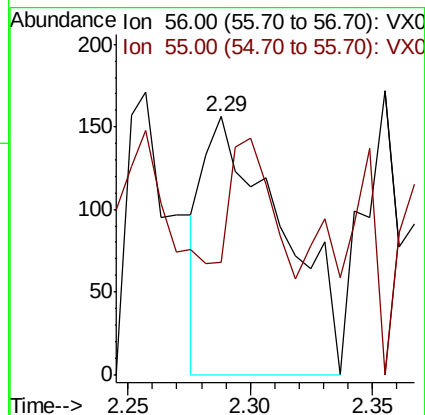
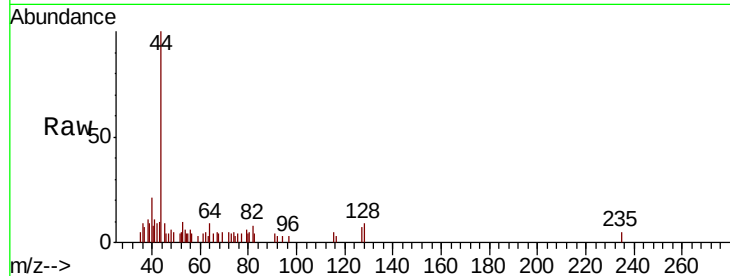
ClientSampled :

Tot Ion: 56 Resp: 348

Ion Ratio Lower Upper

56 100

55 27.3 56.9 85.3#



#16

Acetone

Concen: 2.803 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX010470.D

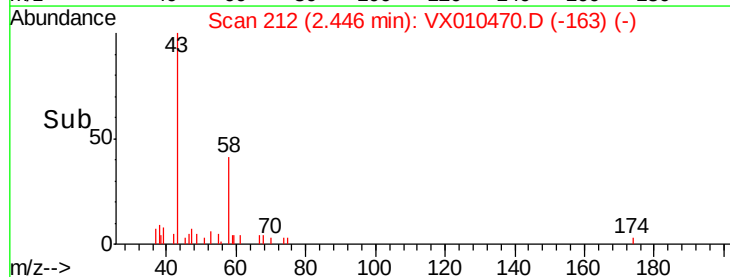
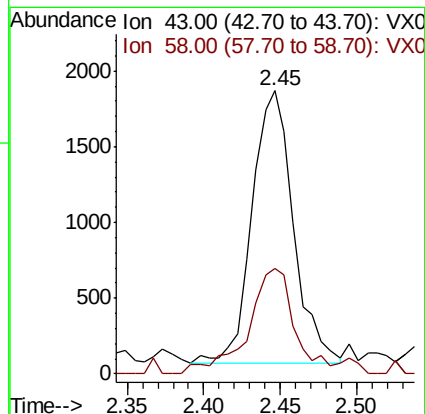
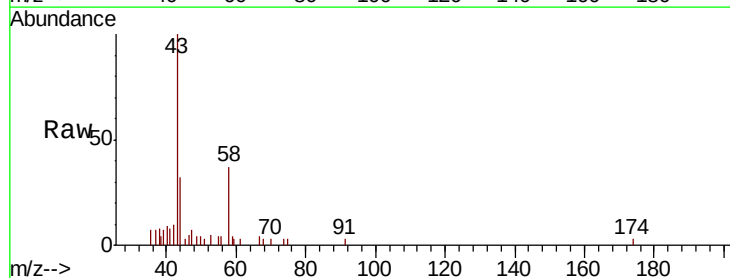
Acq: 26 Jun 2019 18:06

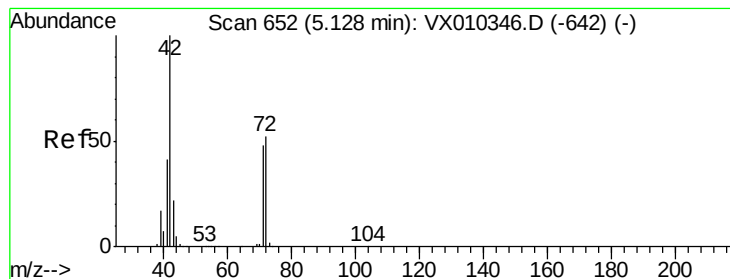
Tgt Ion: 43 Resp: 3400

Ion Ratio Lower Upper

43 100

58 35.1 28.9 43.3





#29

Tetrahydrofuran

Concen: 0.283 ug/l

RT: 5.17 min Scan# 658

Delta R.T. 0.04 min

Lab File: VX010470.D

Acq: 26 Jun 2019 18:06

Instrument :

MSVOA\_X

ClientSampled :

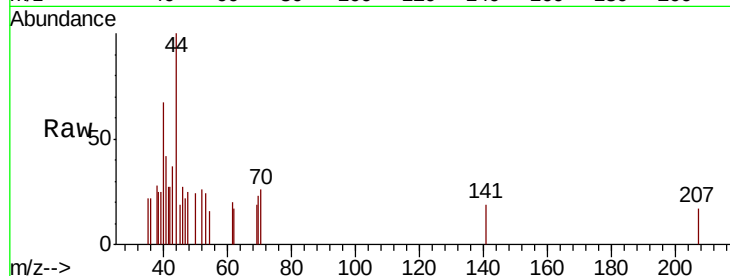
Tot Ion: 42 Resp: 312

Ion Ratio Lower Upper

42 100

72 35.3 40.6 60.8#

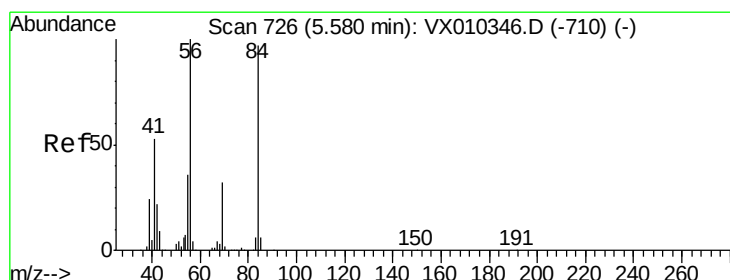
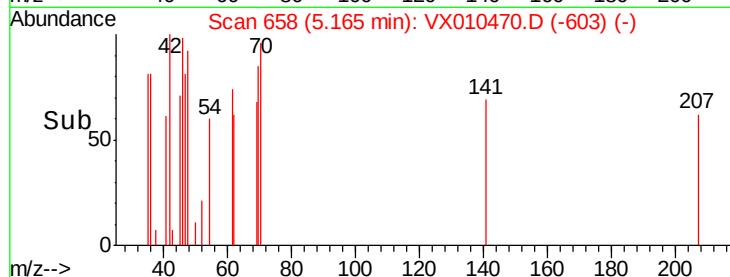
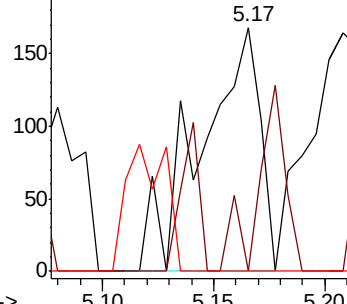
71 0.0 37.8 56.8#



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#31

Cyclohexane

Concen: 1.292 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.08 min

Lab File: VX010470.D

Acq: 26 Jun 2019 18:06

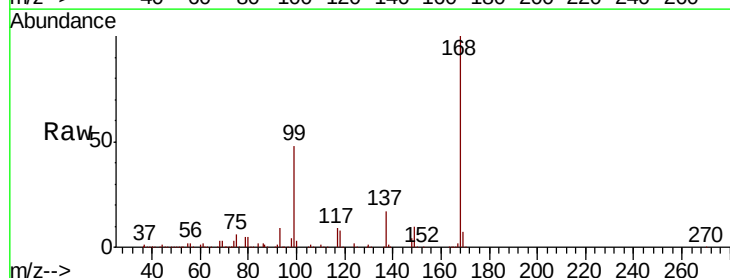
Tgt Ion: 56 Resp: 4518

Ion Ratio Lower Upper

56 100

69 188.1 25.9 38.9#

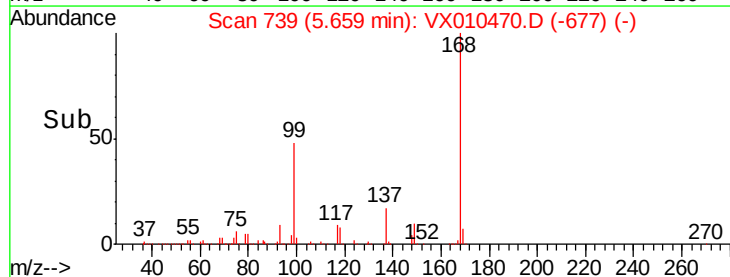
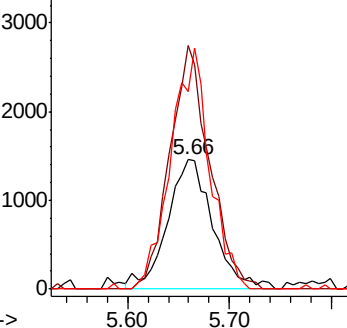
84 152.5 78.0 117.0#

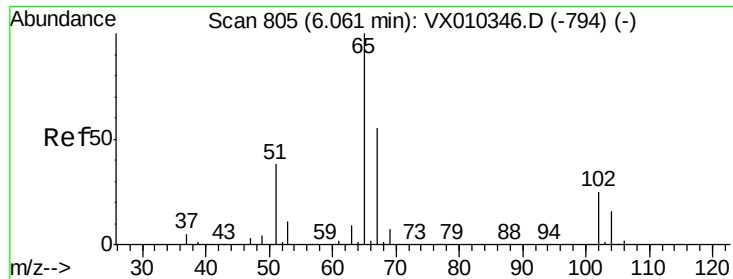


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0

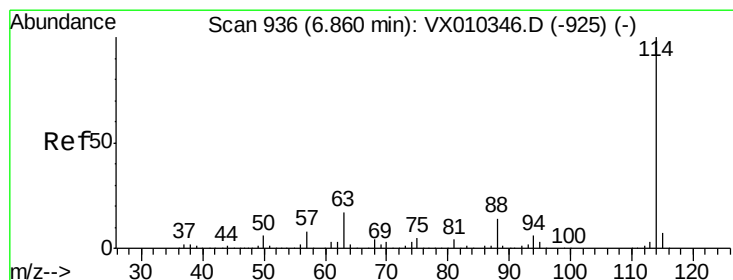
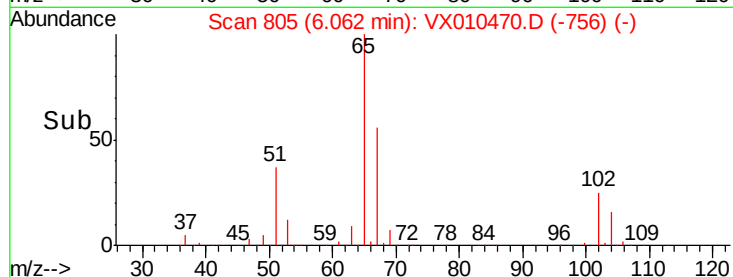
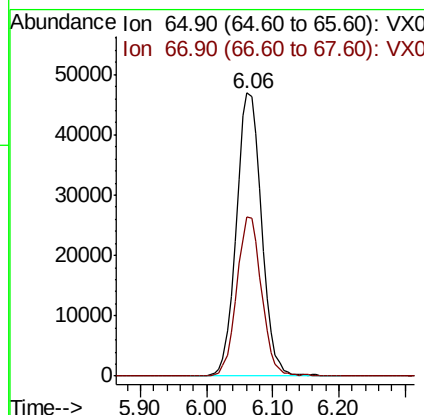
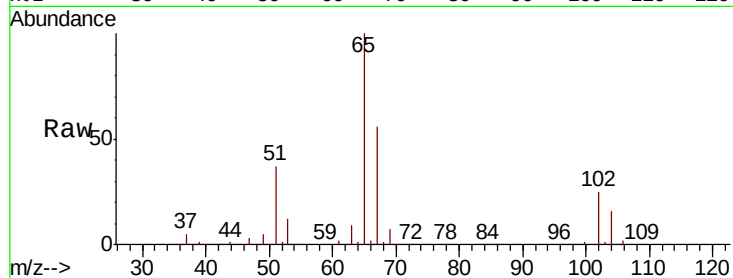




#33  
 1,2-Dichloroethane-d4  
 Concen: 51.296 ug/l  
 RT: 6.06 min Scan# 805  
 Delta R.T. 0.00 min  
 Lab File: VX010470.D  
 Acq: 26 Jun 2019 18:06

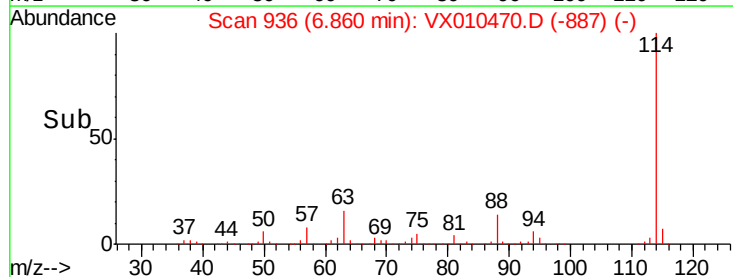
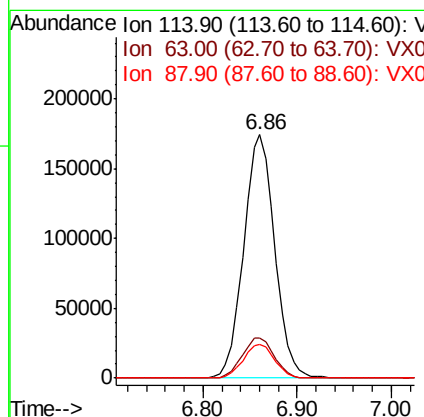
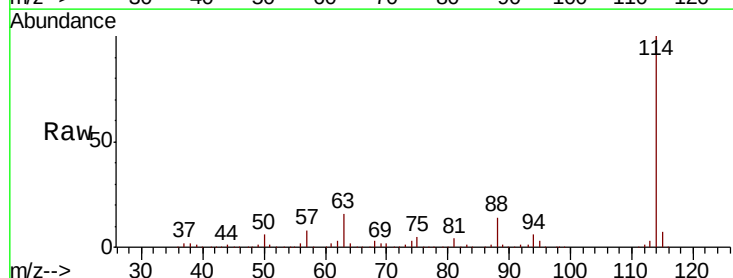
Instrument :  
 MSVOA\_X  
 ClientSampled :

Tot Ion: 65 Resp: 124162  
 Ion Ratio Lower Upper  
 65 100  
 67 55.6 0.0 110.2

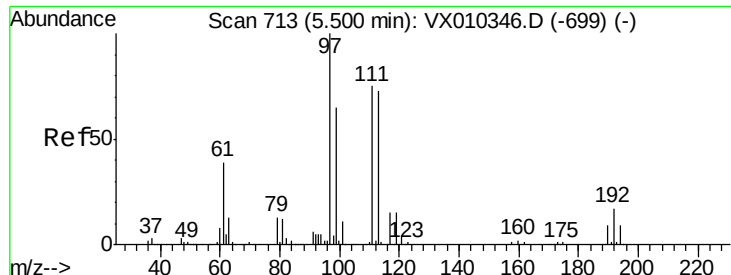


#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.86 min Scan# 936  
 Delta R.T. 0.00 min  
 Lab File: VX010470.D  
 Acq: 26 Jun 2019 18:06

Tgt Ion: 114 Resp: 400962  
 Ion Ratio Lower Upper  
 114 100  
 63 16.4 0.0 33.8  
 88 13.7 0.0 27.6







#35

Dibromofluoromethane

Concen: 50.491 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX010470.D

Acq: 26 Jun 2019 18:06

Instrument :

MSVOA\_X

ClientSampleId :

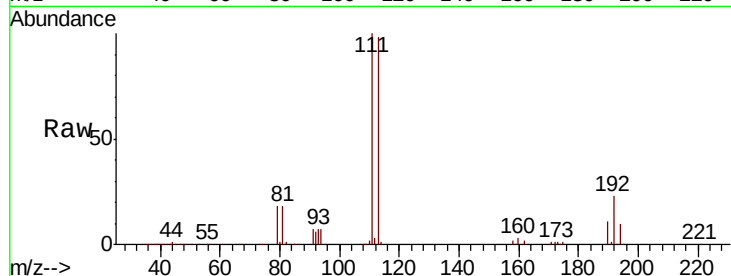
Tot Ion:113 Resp: 123866

Ion Ratio Lower Upper

113 100

111 101.3 81.2 121.8

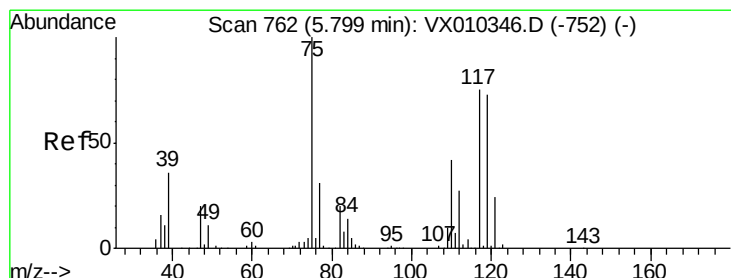
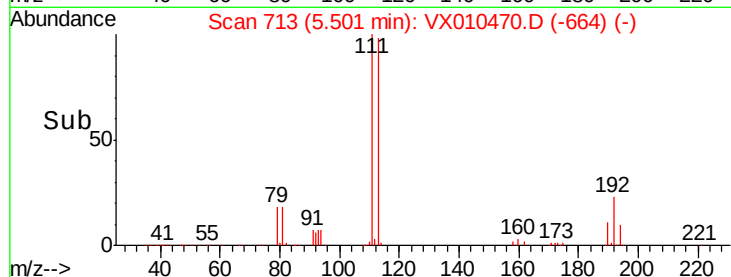
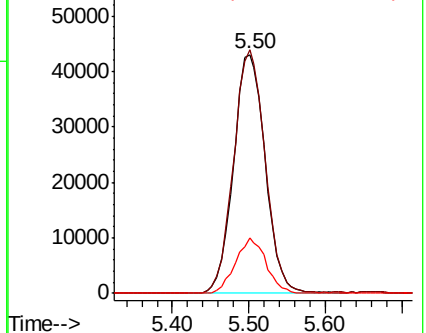
192 22.4 18.6 27.8



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: 5.030 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.13 min

Lab File: VX010470.D

Acq: 26 Jun 2019 18:06

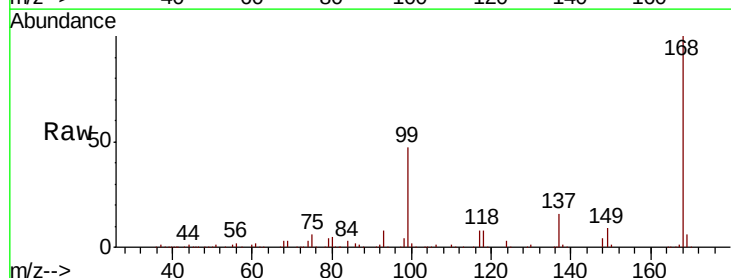
Tgt Ion: 75 Resp: 16028

Ion Ratio Lower Upper

75 100

110 11.1 20.8 62.2#

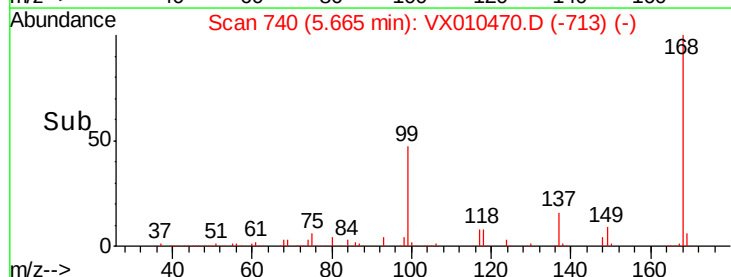
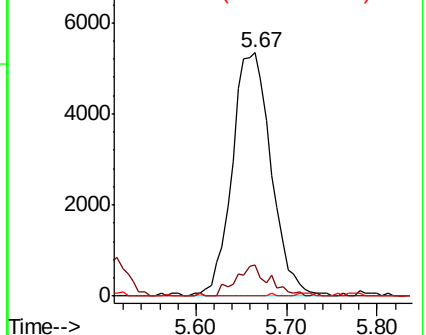
77 0.1 25.4 38.0#

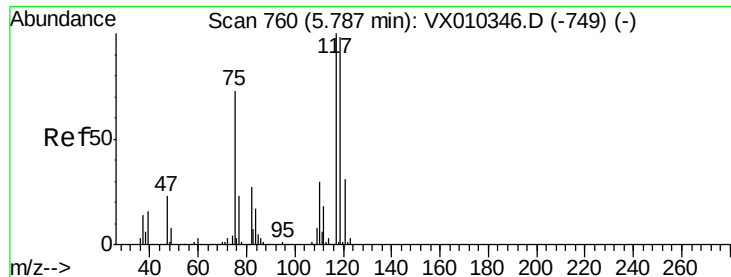


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.618 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX010470.D

Acq: 26 Jun 2019 18:06

Instrument :

MSVOA\_X

ClientSampled :

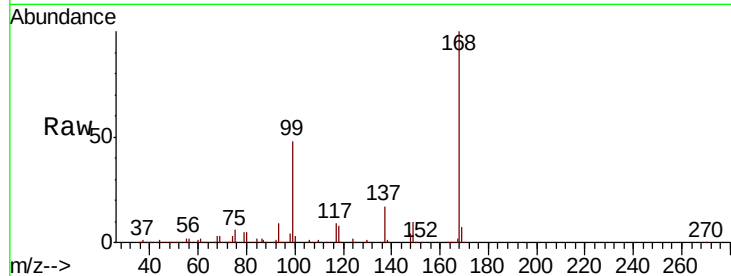
Tot Ion:117 Resp: 22833

Ion Ratio Lower Upper

117 100

119 5.3 78.2 117.4#

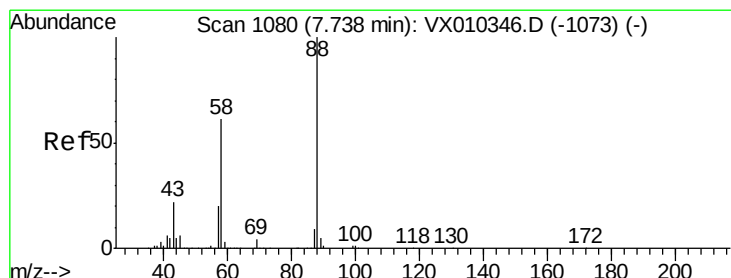
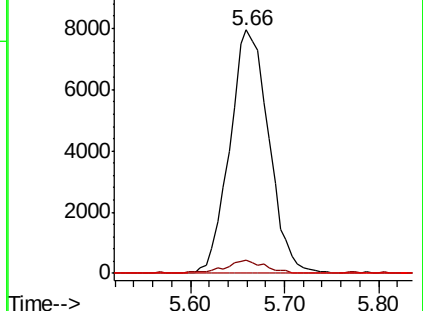
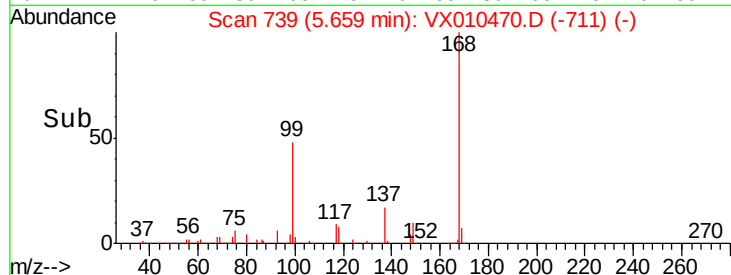
121 0.0 24.7 37.1#



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



#49

1,4-Dioxane

Concen: 0.344 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.05 min

Lab File: VX010470.D

Acq: 26 Jun 2019 18:06

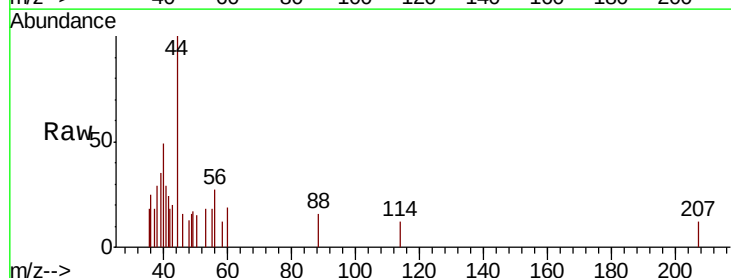
Tgt Ion: 88 Resp: 25

Ion Ratio Lower Upper

88 100

43 0.0 20.2 30.2#

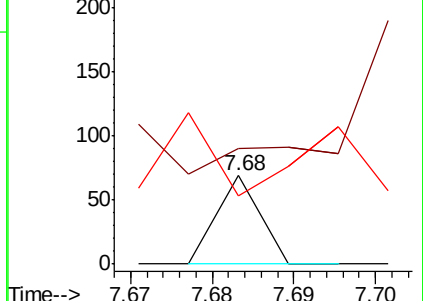
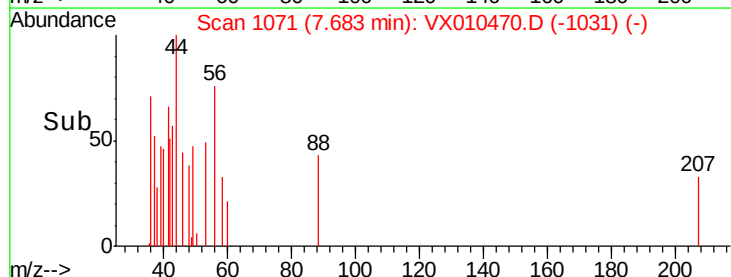
58 336.0 49.5 74.3#

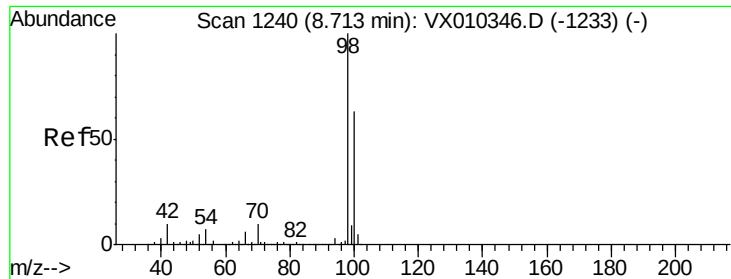


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

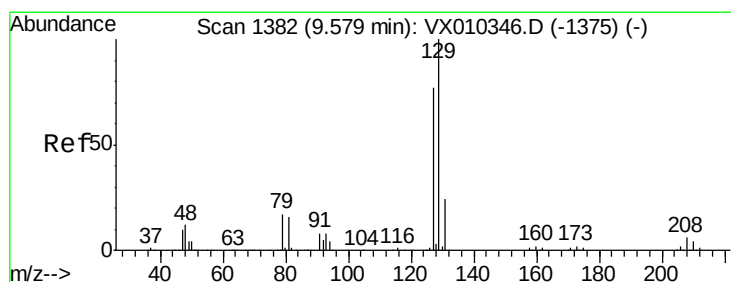
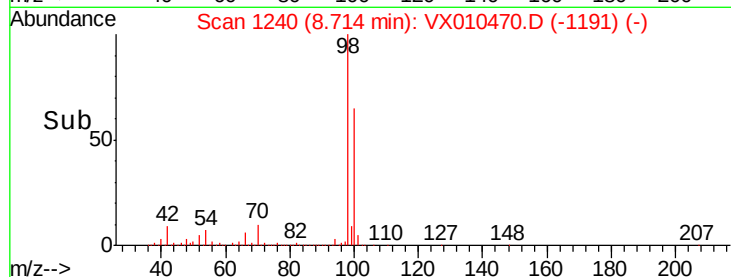
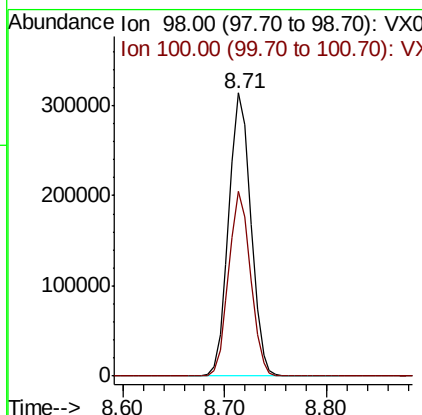
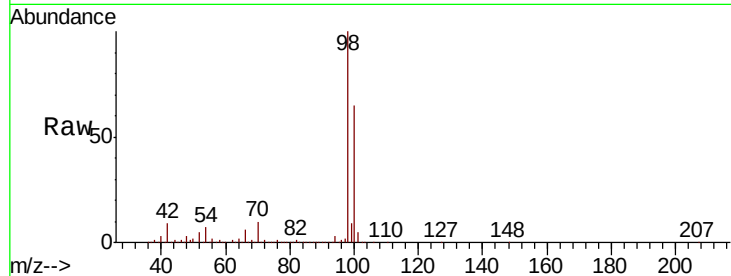




#50  
Toluene-d8  
Concen: 50.349 ug/l  
RT: 8.71 min Scan# 1240  
Delta R.T. 0.00 min  
Lab File: VX010470.D  
Acq: 26 Jun 2019 18:06

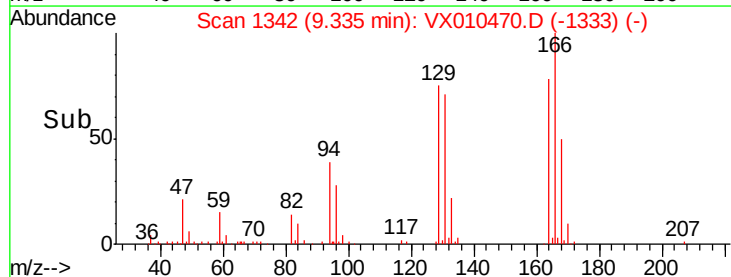
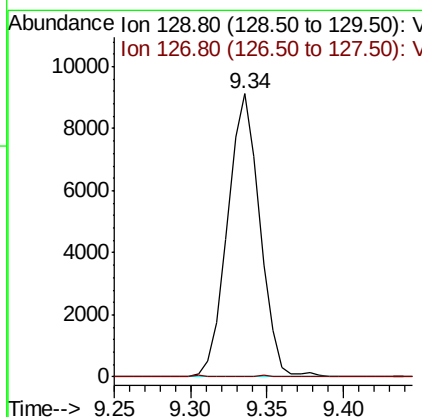
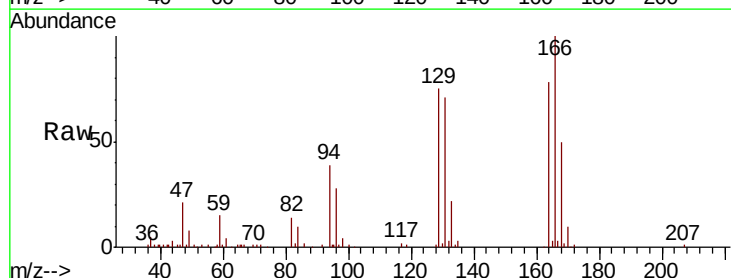
Instrument :  
MSVOA\_X  
ClientSampleId :

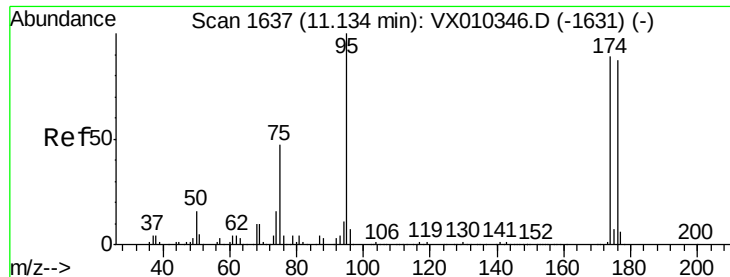
Tot Ion: 98 Resp: 472557  
Ion Ratio Lower Upper  
98 100  
100 64.4 51.6 77.4



#60  
Dibromochloromethane  
Concen: 4.428 ug/l  
RT: 9.34 min Scan# 1342  
Delta R.T. -0.24 min  
Lab File: VX010470.D  
Acq: 26 Jun 2019 18:06

Tgt Ion: 129 Resp: 13368  
Ion Ratio Lower Upper  
129 100  
127 0.2 38.4 115.1#





#62

4-Bromofluorobenzene

Concen: 46.261 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX010470.D

Acq: 26 Jun 2019 18:06

Instrument :

MSVOA\_X

ClientSampleId :

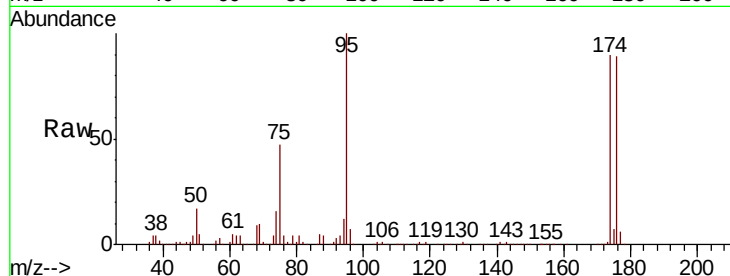
Tot Ion: 95 Resp: 156755

Ion Ratio Lower Upper

95 100

174 95.5 0.0 187.6

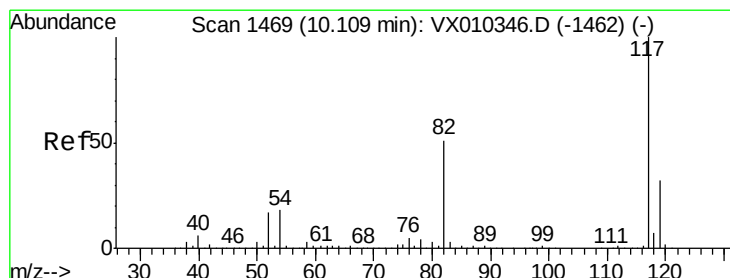
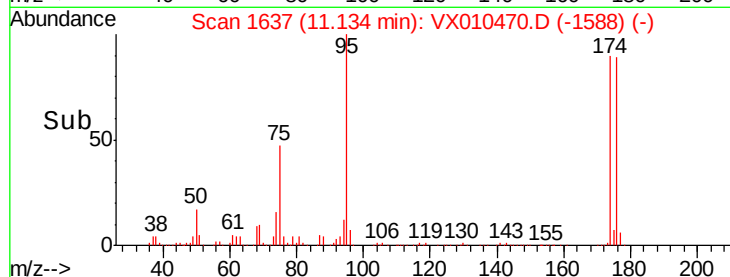
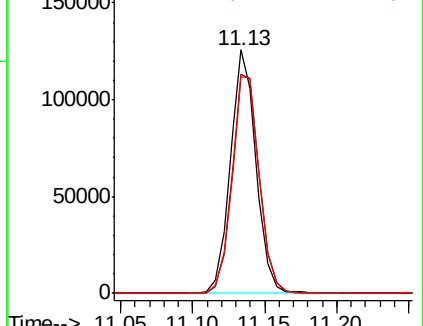
176 93.9 0.0 184.0



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: VX010470.D

Acq: 26 Jun 2019 18:06

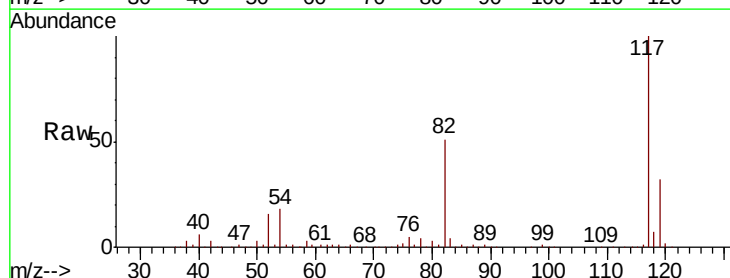
Tgt Ion: 117 Resp: 363915

Ion Ratio Lower Upper

117 100

82 50.8 41.2 61.8

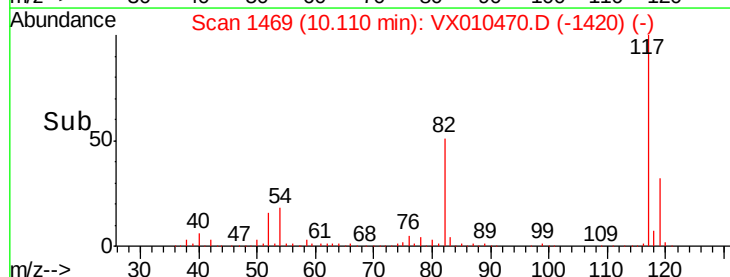
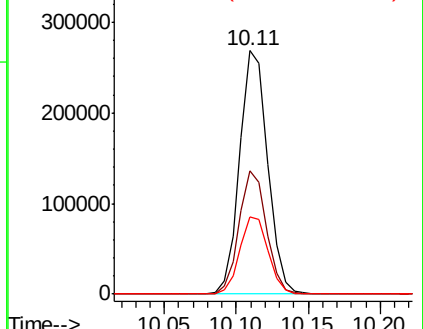
119 31.8 25.5 38.3

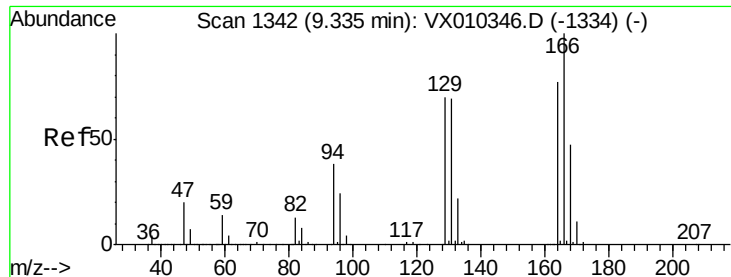


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V





#64

Tetrachloroethene

Concen: 4.737 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VX010470.D

Acq: 26 Jun 2019 18:06

Instrument :  
MSVOA\_X  
ClientSampleId :

Tot Ion:164 Resp: 13944

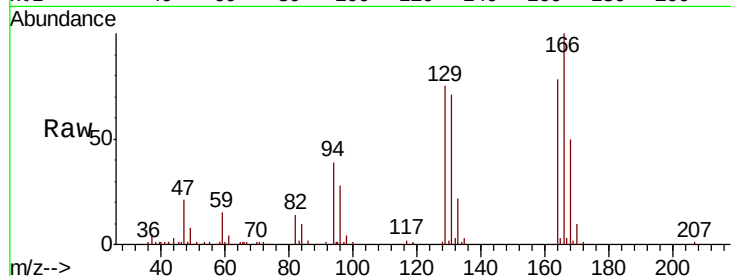
Ion Ratio Lower Upper

164 100

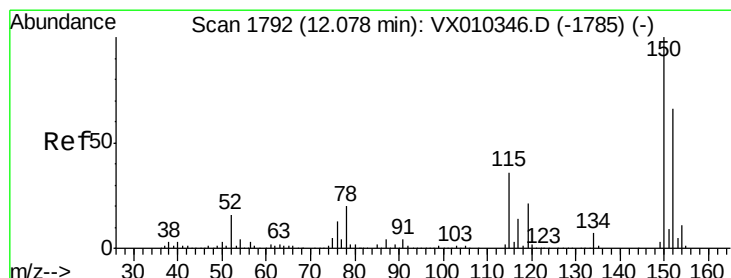
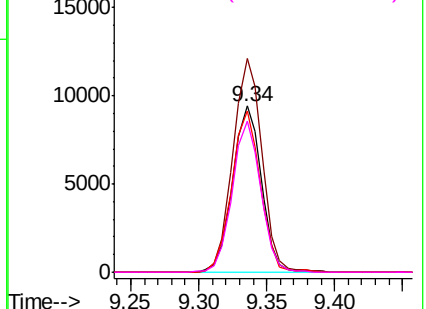
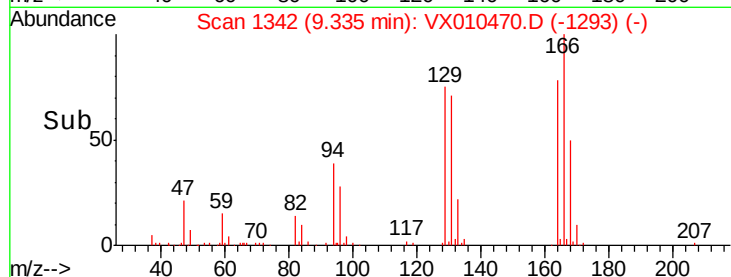
166 128.7 103.6 155.4

129 97.0 73.0 109.4

131 90.8 71.0 106.4



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: VX010470.D

Acq: 26 Jun 2019 18:06

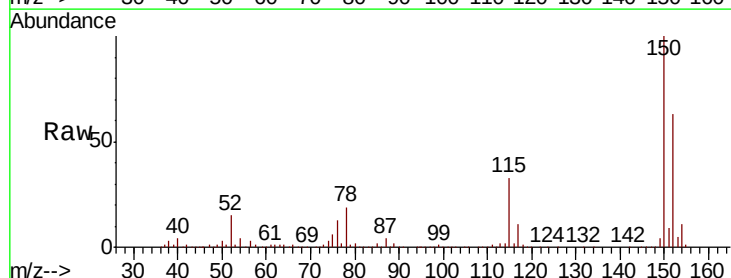
Tgt Ion:152 Resp: 167627

Ion Ratio Lower Upper

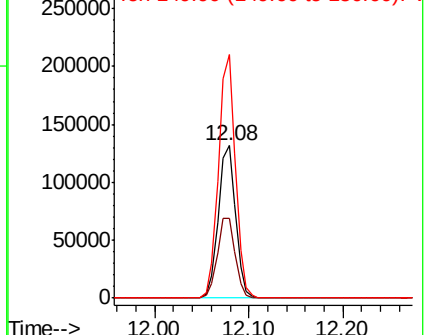
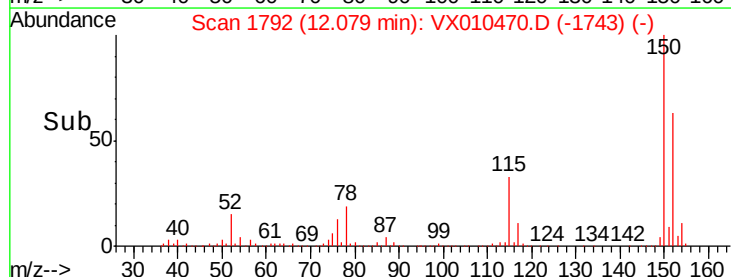
152 100

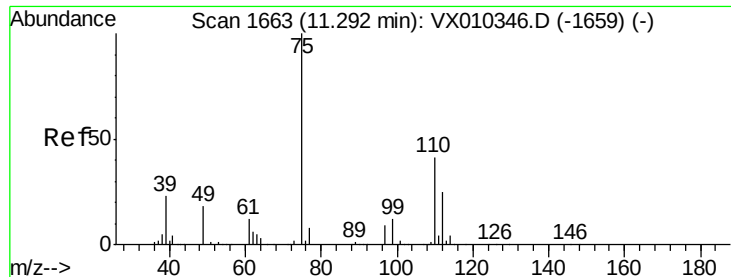
115 53.9 38.6 115.7

150 156.6 0.0 347.4



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

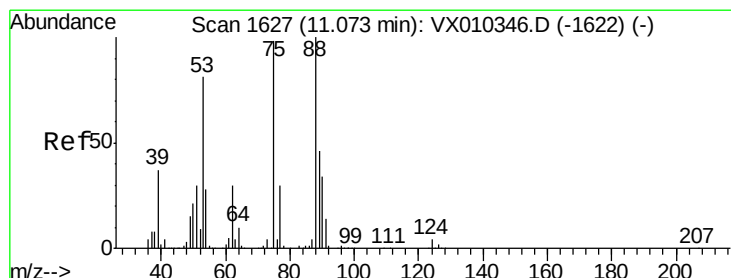
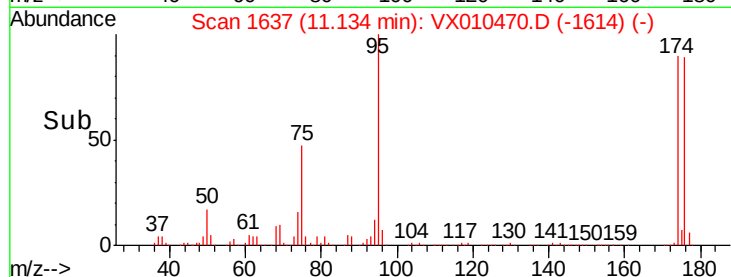
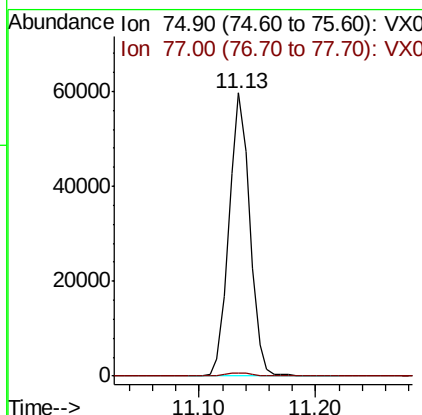
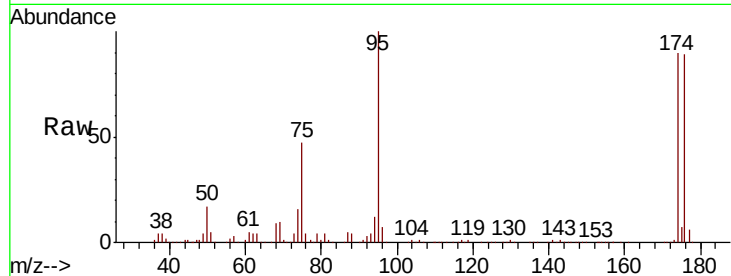




#76  
 1,2,3-Trichloropropane  
 Concen: 24.395 ug/l  
 RT: 11.13 min Scan# 1637  
 Delta R.T. -0.16 min  
 Lab File: VX010470.D  
 Acq: 26 Jun 2019 18:06

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Tot Ion: 75 Resp: 74517  
 Ion Ratio Lower Upper  
 75 100  
 77 1.4 22.6 67.8#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 56.911 ug/l  
 RT: 11.13 min Scan# 1637  
 Delta R.T. 0.06 min  
 Lab File: VX010470.D  
 Acq: 26 Jun 2019 18:06

Tgt Ion: 75 Resp: 74517  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 66.1 99.1#  
 89 0.0 37.8 56.6#

