

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX050520\  
 Data File : VX016061.D  
 Acq On : 05 May 2020 14:12  
 Operator : JC/SP  
 Sample : L2490-02  
 Misc : 5.0mL/MSVOA X/WATER  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TT-TB-20200504

Quant Time: May 06 05:01:57 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X050420W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 06 04:29:02 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.63  | 168  | 293745   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 474211   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 454398   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 233174   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 6.04  | 65   | 180357   | 46.66 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.32%  |          |
| 35) Dibromofluoromethane    | 5.47  | 113  | 138347   | 46.05 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 92.10%  |          |
| 50) Toluene-d8              | 8.70  | 98   | 576253   | 49.78 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.56%  |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 230703   | 52.40 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.80% |          |

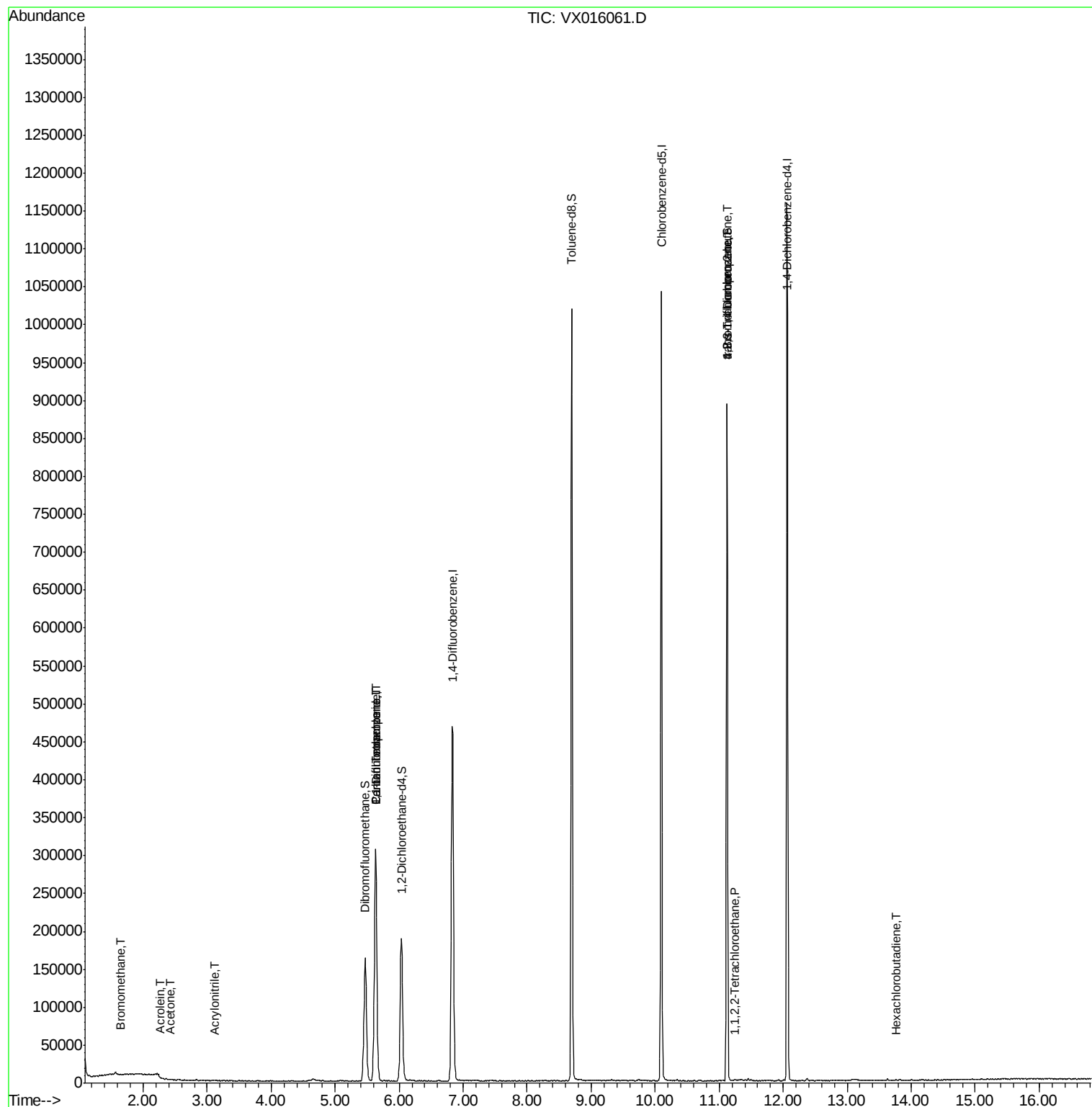
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 5) Bromomethane                | 1.64  | 94   | 612      | 0.315  | ug/l # | 50     |
| 13) Acrolein                   | 2.27  | 56   | 665      | 1.087  | ug/l # | 51     |
| 15) Acrylonitrile              | 3.12  | 53   | 505      | 0.249  | ug/l # | 76     |
| 16) Acetone                    | 2.43  | 43   | 372      | 0.216  | ug/l # | 47     |
| 36) 1,1-Dichloropropene        | 5.63  | 75   | 22470    | 4.814  | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 5.64  | 117  | 28599    | 6.028  | ug/l # | 15     |
| 75) 1,1,2,2-Tetrachloroethane  | 11.25 | 83   | 22       | 4.817  | ug/l # | 26     |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 115690   | 21.864 | ug/l # | 36     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 115690   | 52.104 | ug/l # | 13     |
| 94) Hexachlorobutadiene        | 13.77 | 225  | 129      | 0.576  | ug/l   | 83     |

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X050420W.M  
Quant Title : SW846 8260  
QLast Update : Wed May 06 04:29:02 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.01 min

Lab File: VX016061.D

Acq: 05 May 2020 14:12

Instrument :

MSVOA\_X

ClientSampleId :

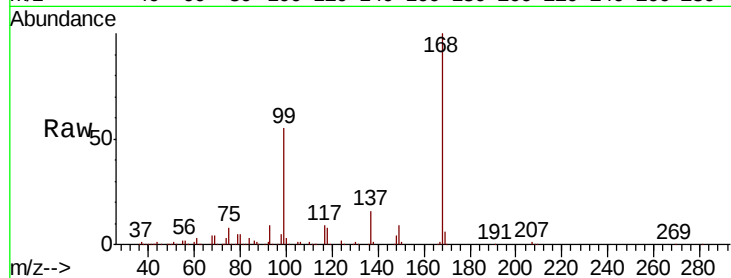
TT-TB-20200504

Tot Ion:168 Resp: 293745

Ion Ratio Lower Upper

168 100

99 55.0 45.0 67.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

120000

100000

80000

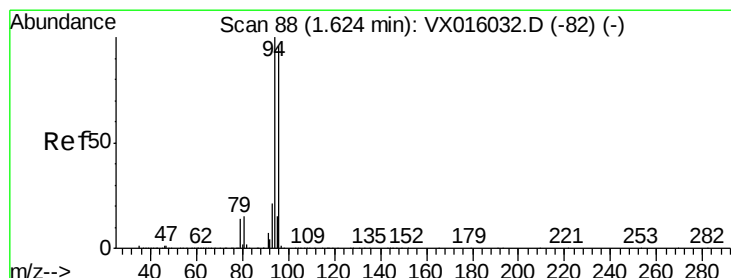
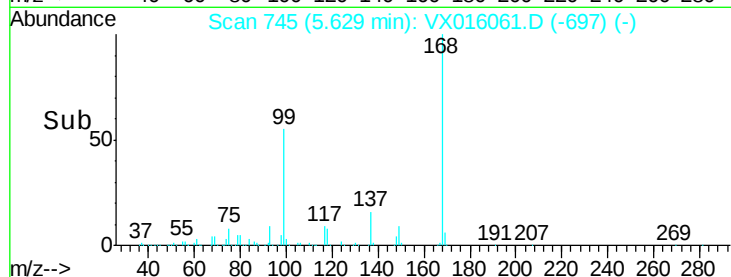
60000

40000

20000

0

Time-->



#5

Bromomethane

Concen: 0.315 ug/l

RT: 1.64 min Scan# 91

Delta R.T. 0.02 min

Lab File: VX016061.D

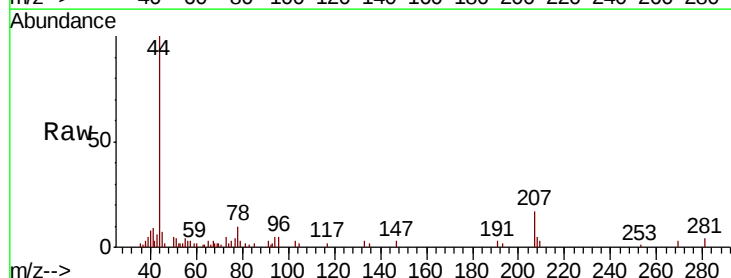
Acq: 05 May 2020 14:12

Tgt Ion: 94 Resp: 612

Ion Ratio Lower Upper

94 100

96 47.1 76.9 115.3#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

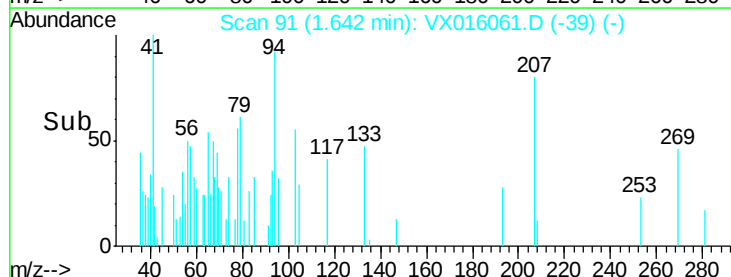
300

200

100

0

Time-->





#13

Acrolein

Concen: 1.087 ug/l

RT: 2.27 min Scan# 194

Delta R.T. -0.00 min

Lab File: VX016061.D

Acq: 05 May 2020 14:12

Instrument :

MSVOA\_X

ClientSampleId :

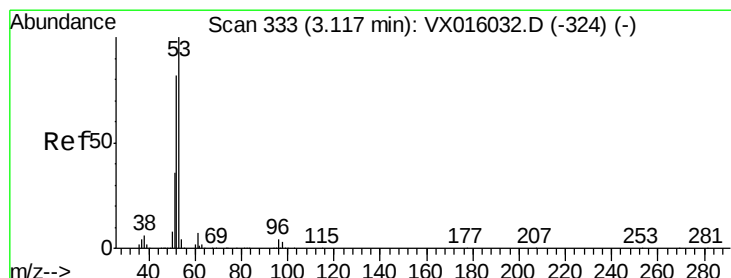
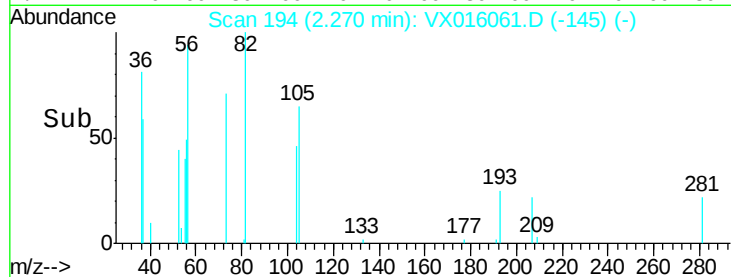
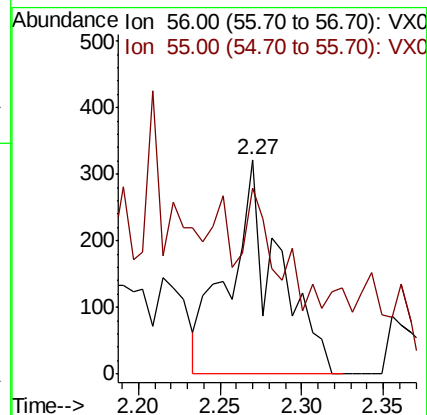
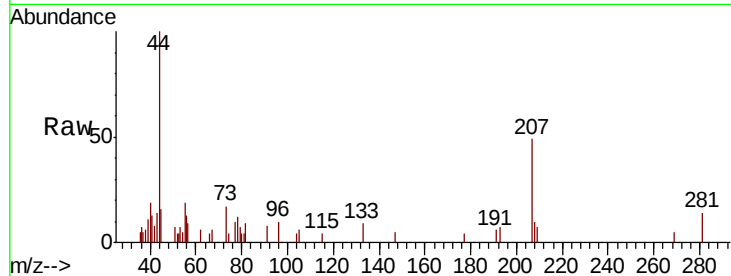
TT-TB-20200504

Tot Ion: 56 Resp: 665

Ion Ratio Lower Upper

56 100

55 29.9 56.5 84.7#



#15

Acrylonitrile

Concen: 0.249 ug/l

RT: 3.12 min Scan# 333

Delta R.T. -0.00 min

Lab File: VX016061.D

Acq: 05 May 2020 14:12

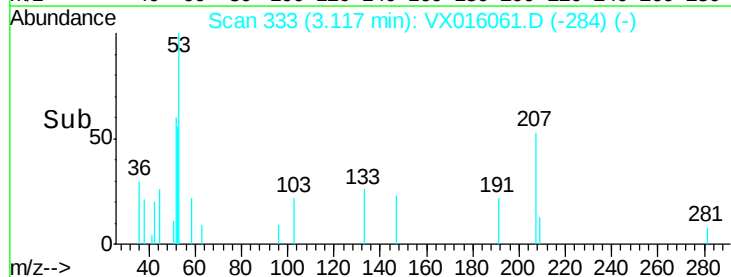
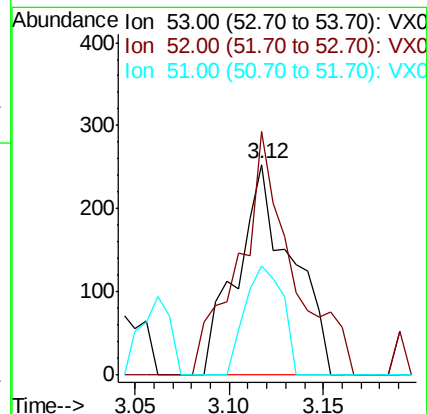
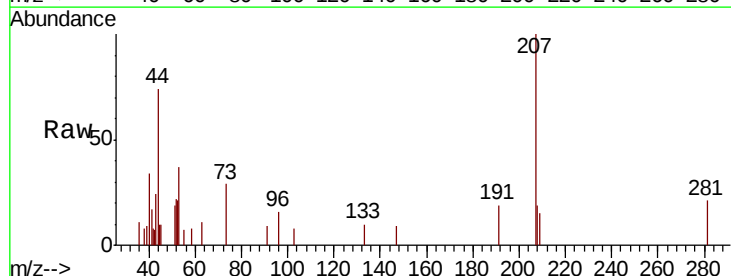
Tgt Ion: 53 Resp: 505

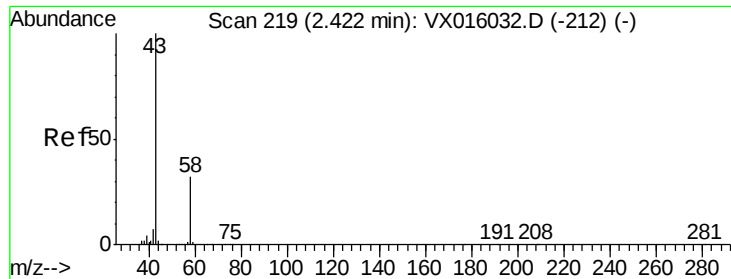
Ion Ratio Lower Upper

53 100

52 113.9 66.1 99.1#

51 36.2 28.8 43.2





#16

Acetone

Concen: 0.216 ug/l

RT: 2.43 min Scan# 220

Delta R.T. 0.01 min

Lab File: VX016061.D

Acq: 05 May 2020 14:12

Instrument :

MSVOA\_X

ClientSampleId :

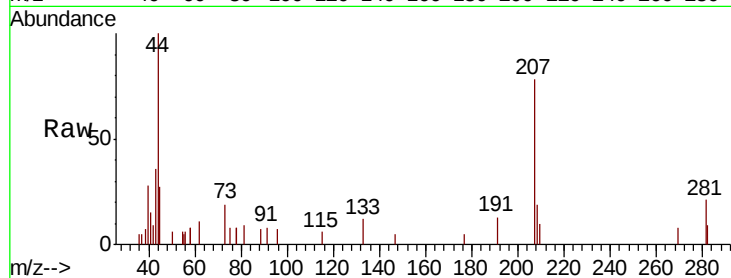
TT-TB-20200504

Tot Ion: 43 Resp: 372

Ion Ratio Lower Upper

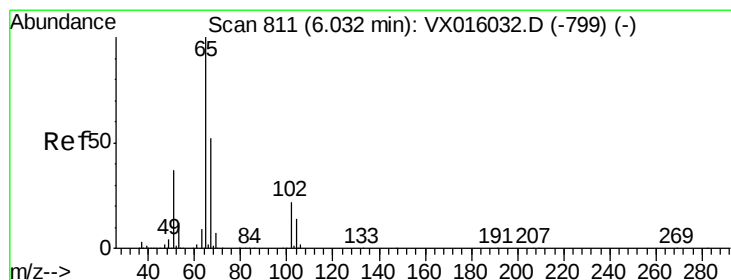
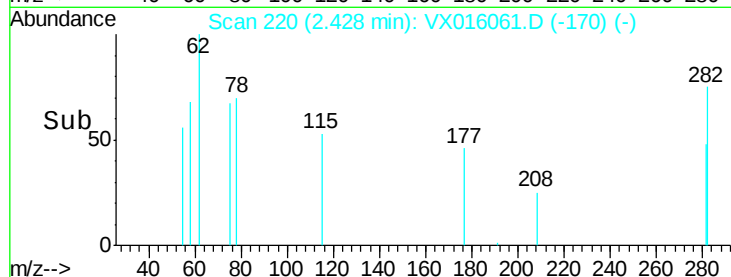
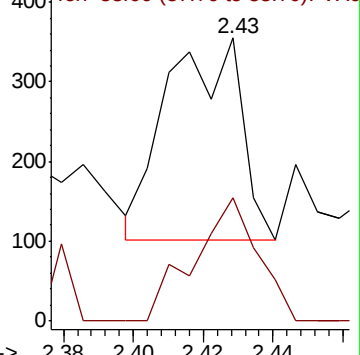
43 100

58 61.3 25.4 38.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 46.660 ug/l

RT: 6.04 min Scan# 812

Delta R.T. 0.01 min

Lab File: VX016061.D

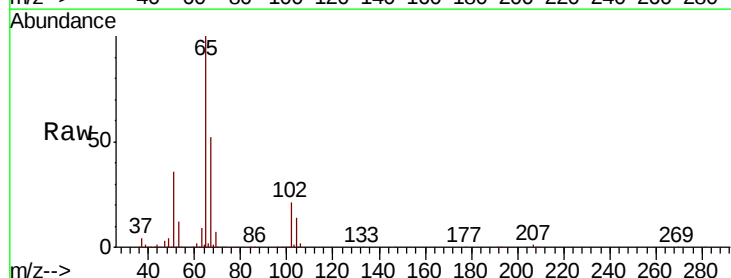
Acq: 05 May 2020 14:12

Tgt Ion: 65 Resp: 180357

Ion Ratio Lower Upper

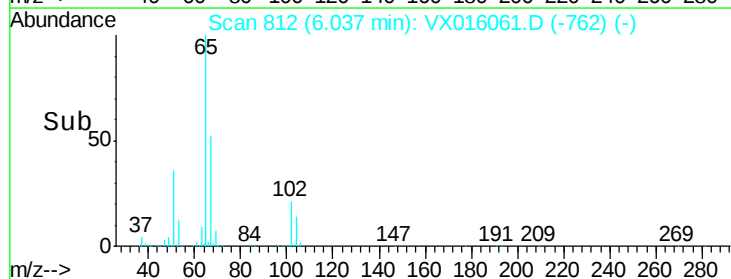
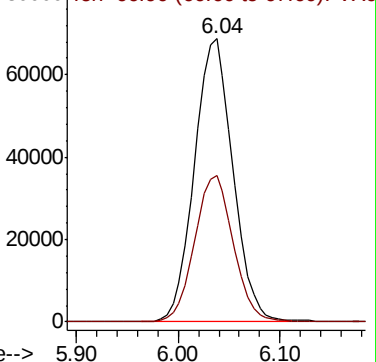
65 100

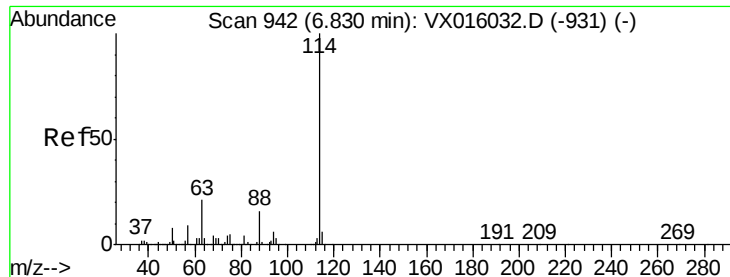
67 52.1 0.0 104.8



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: VX016061.D

Acq: 05 May 2020 14:12

Instrument :

MSVOA\_X

ClientSampleId :

TT-TB-20200504

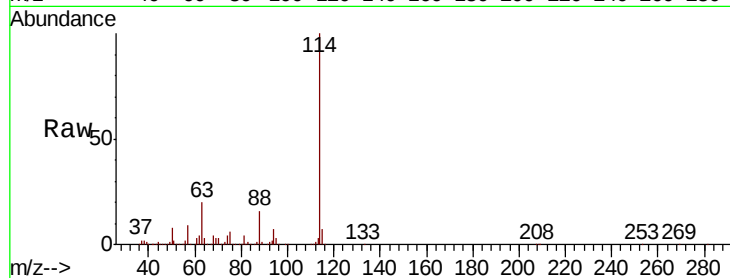
Tot Ion:114 Resp: 474211

Ion Ratio Lower Upper

114 100

63 20.4 0.0 42.8

88 16.1 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

250000

200000

150000

100000

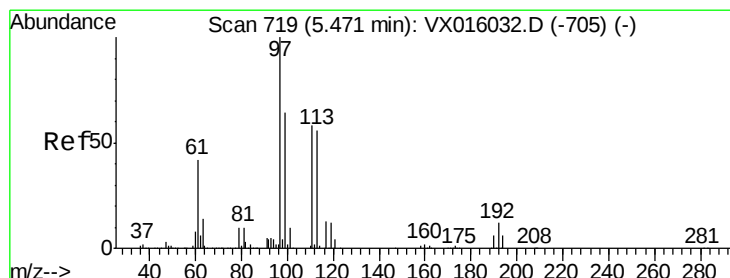
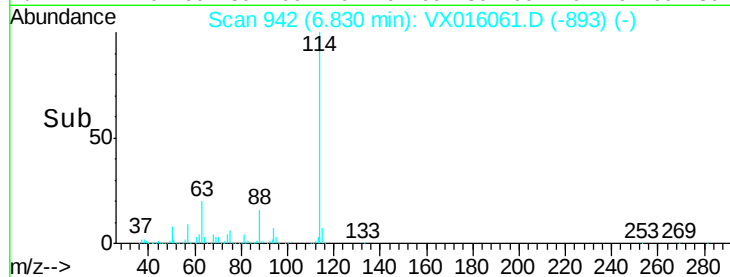
50000

0

6.83

6.70 6.80 6.90

Time-->



#35

Dibromofluoromethane

Concen: 46.049 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX016061.D

Acq: 05 May 2020 14:12

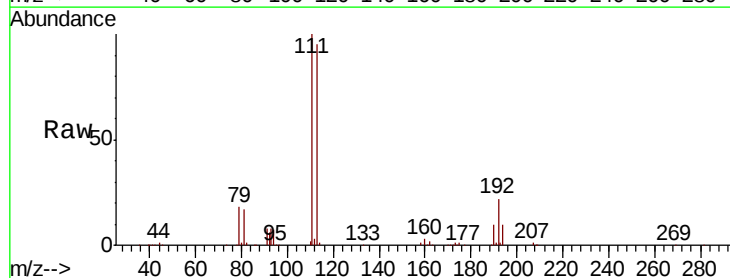
Tgt Ion:113 Resp: 138347

Ion Ratio Lower Upper

113 100

111 103.2 81.6 122.4

192 21.5 17.0 25.4



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

60000

40000

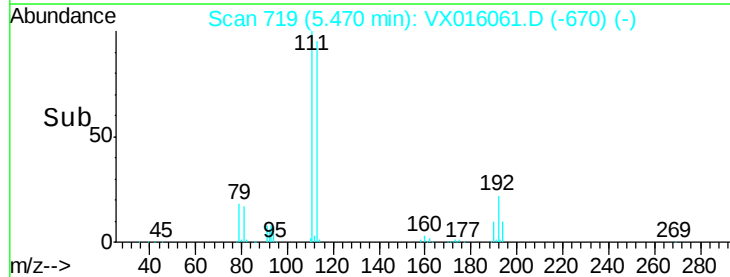
20000

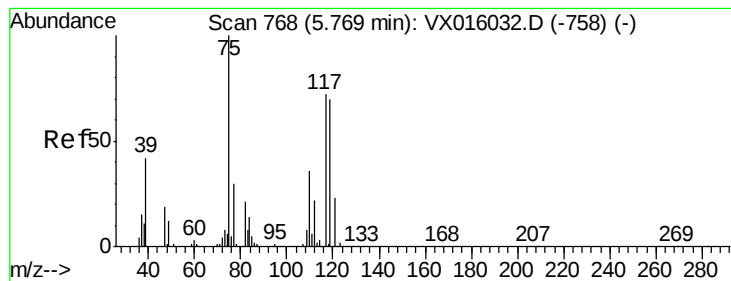
0

5.47

5.30 5.40 5.50 5.60

Time-->





#36

1,1-Dichloropropene

Concen: 4.814 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.14 min

Lab File: VX016061.D

Acq: 05 May 2020 14:12

Instrument :

MSVOA\_X

ClientSampleId :

TT-TB-20200504

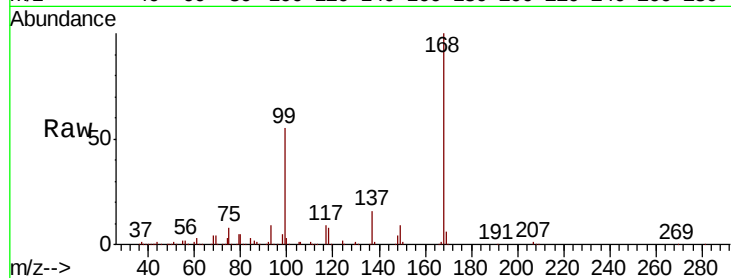
Tot Ion: 75 Resp: 22470

Ion Ratio Lower Upper

75 100

110 9.1 18.1 54.1#

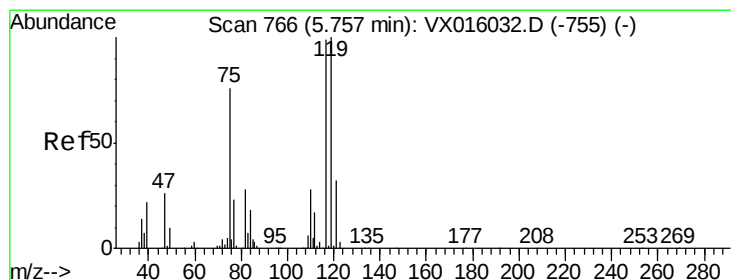
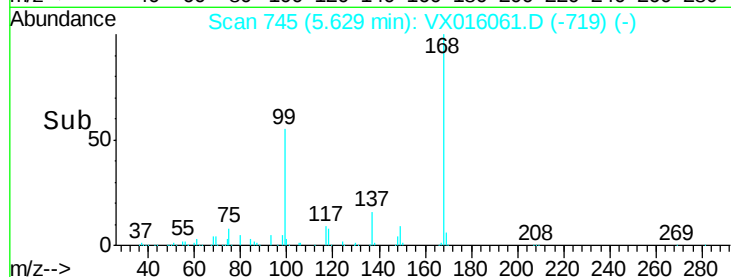
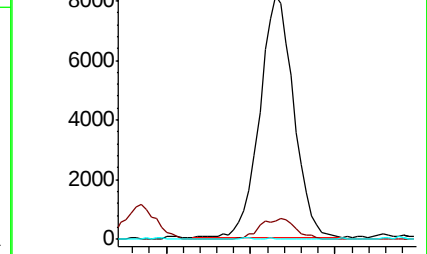
77 0.1 25.0 37.6#



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: 6.028 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.12 min

Lab File: VX016061.D

Acq: 05 May 2020 14:12

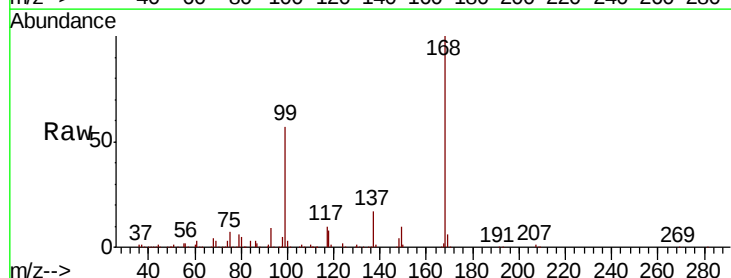
Tgt Ion: 117 Resp: 28599

Ion Ratio Lower Upper

117 100

119 5.8 80.3 120.5#

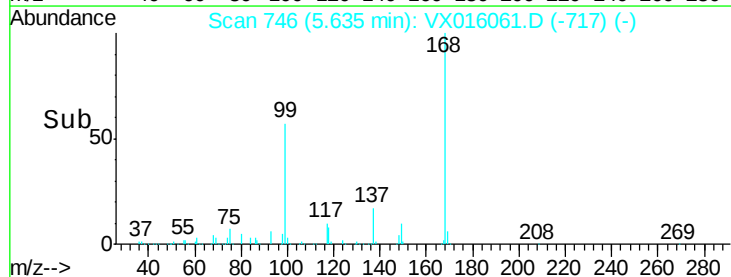
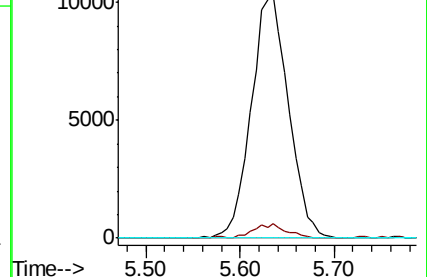
121 0.0 25.7 38.5#

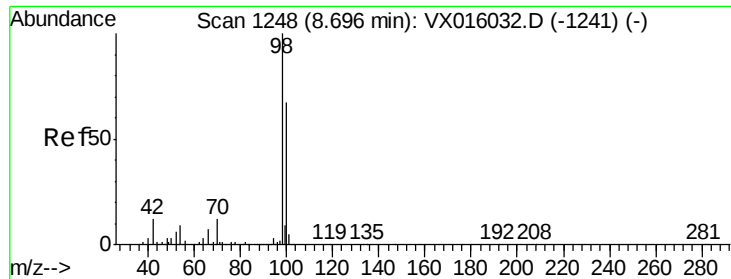


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#50

Toluene-d8

Concen: 49.780 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX016061.D

Acq: 05 May 2020 14:12

Instrument :

MSVOA\_X

ClientSampleId :

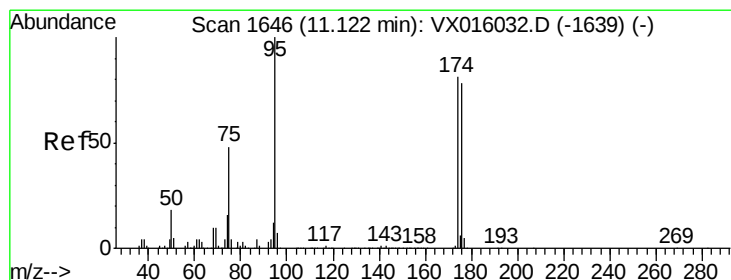
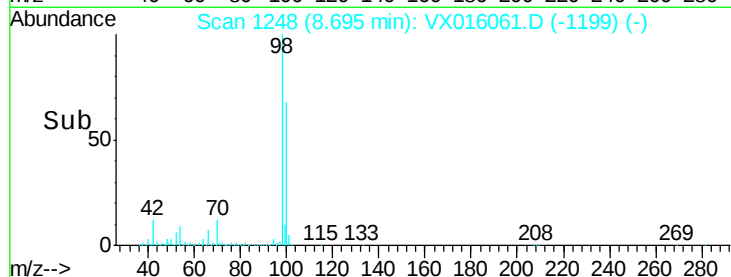
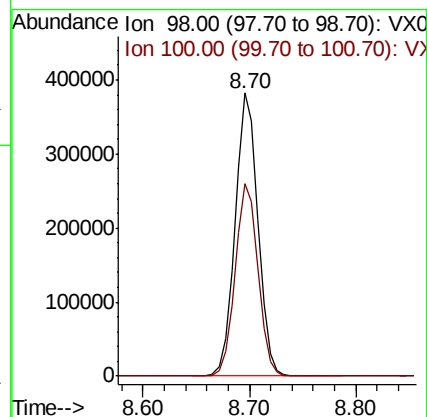
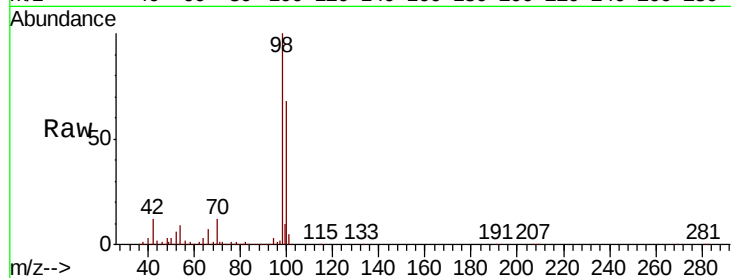
TT-TB-20200504

Tot Ion: 98 Resp: 576253

Ion Ratio Lower Upper

98 100

100 67.9 53.7 80.5



#62

4-Bromofluorobenzene

Concen: 52.398 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX016061.D

Acq: 05 May 2020 14:12

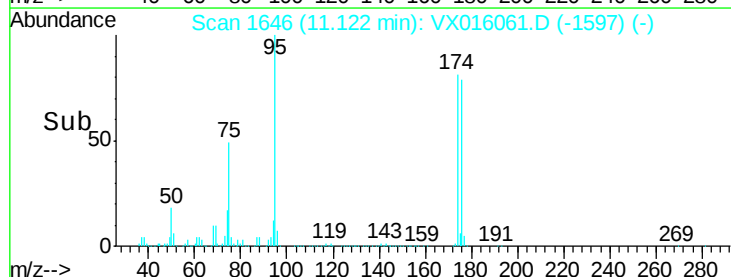
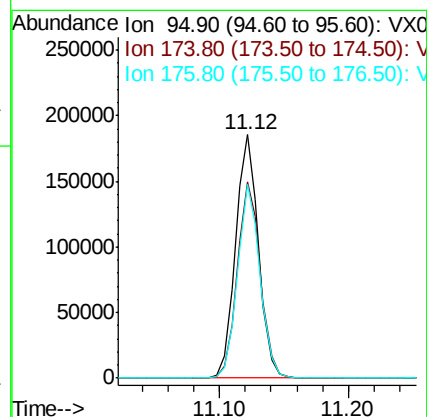
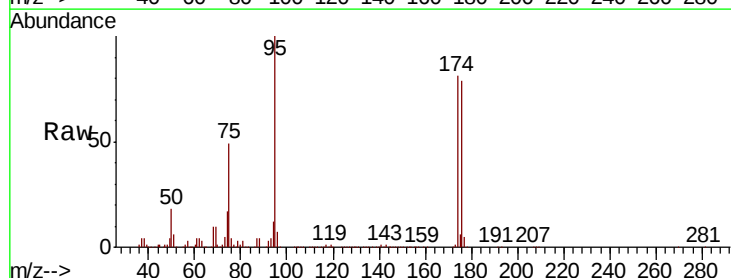
Tgt Ion: 95 Resp: 230703

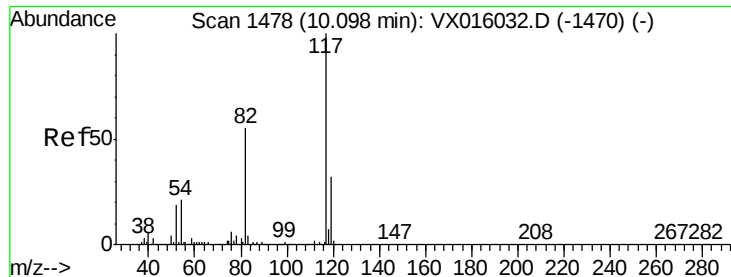
Ion Ratio Lower Upper

95 100

174 80.8 0.0 159.4

176 77.8 0.0 157.6

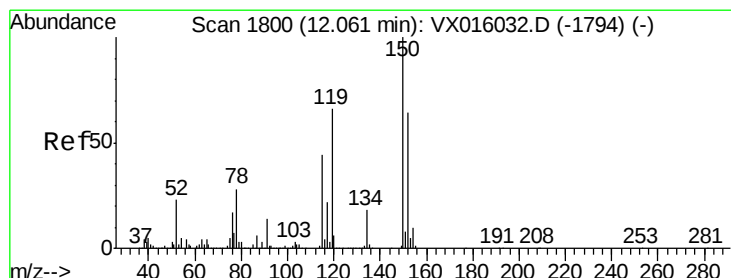
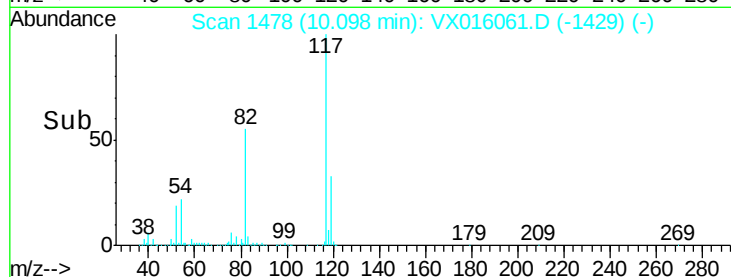
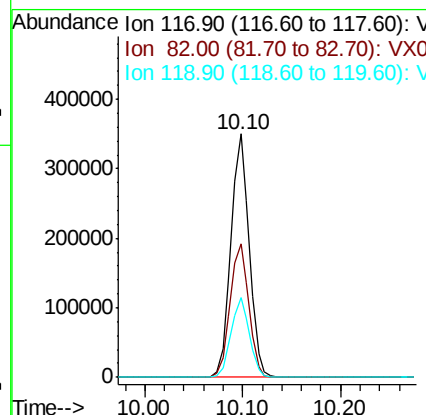
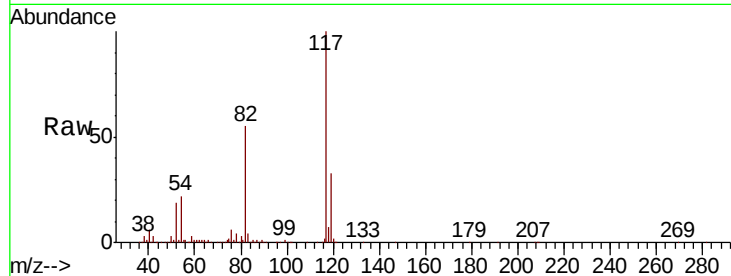




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.10 min Scan# 1478  
Delta R.T. -0.00 min  
Lab File: VX016061.D  
Acq: 05 May 2020 14:12

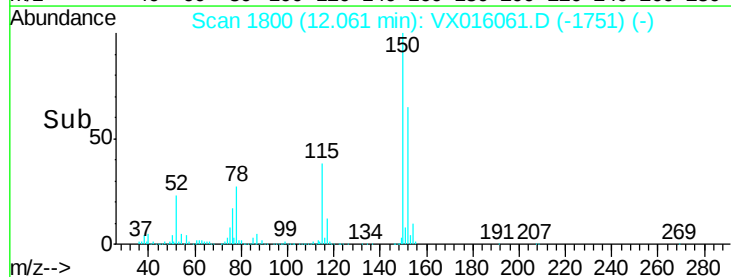
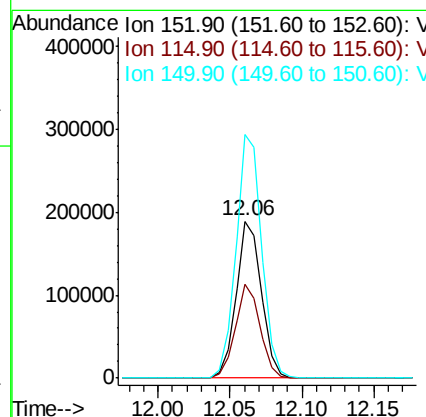
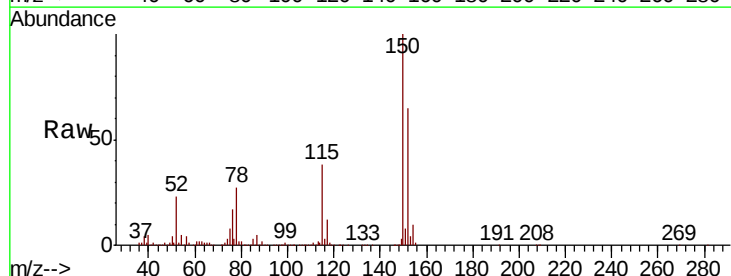
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT-TB-20200504

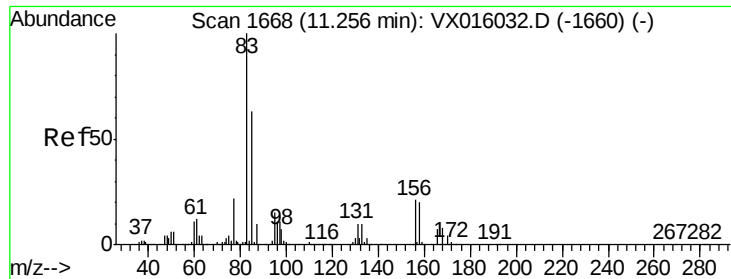
Tot Ion:117 Resp: 454398  
Ion Ratio Lower Upper  
117 100  
82 55.0 44.4 66.6  
119 32.7 25.5 38.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.06 min Scan# 1800  
Delta R.T. -0.00 min  
Lab File: VX016061.D  
Acq: 05 May 2020 14:12

Tgt Ion:152 Resp: 233174  
Ion Ratio Lower Upper  
152 100  
115 58.1 41.3 124.1  
150 157.5 0.0 352.2





#75

1,1,2,2-Tetrachloroethane

Concen: 4.817 ug/l

RT: 11.25 min Scan# 1667

Delta R.T. -0.01 min

Lab File: VX016061.D

Acq: 05 May 2020 14:12

Instrument :

MSVOA\_X

ClientSampleId :

TT-TB-20200504

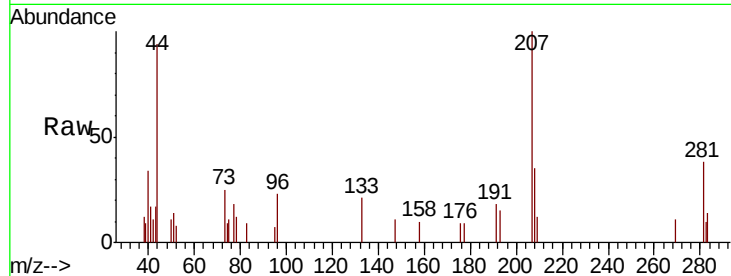
Tot Ion: 83 Resp: 22

Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.4#

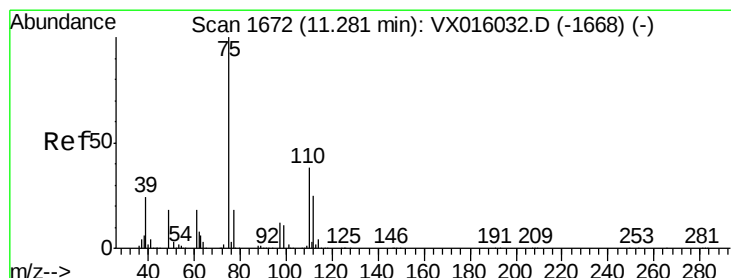
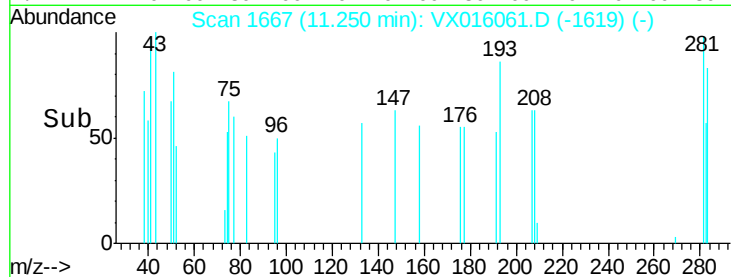
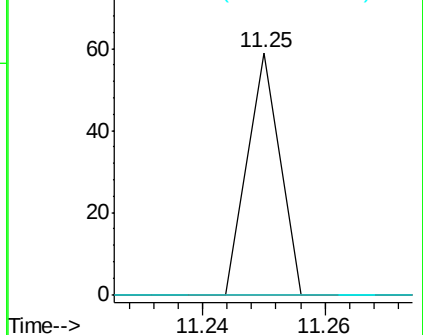
85 0.0 32.0 96.0#



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 21.864 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX016061.D

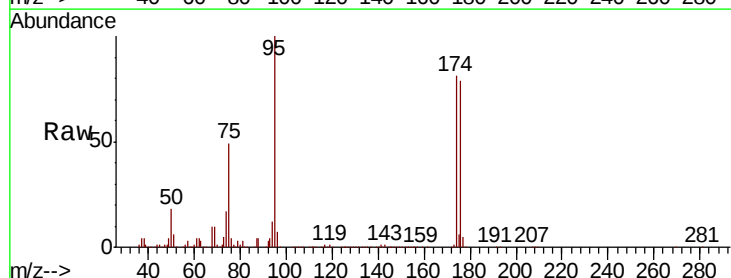
Acq: 05 May 2020 14:12

Tgt Ion: 75 Resp: 115690

Ion Ratio Lower Upper

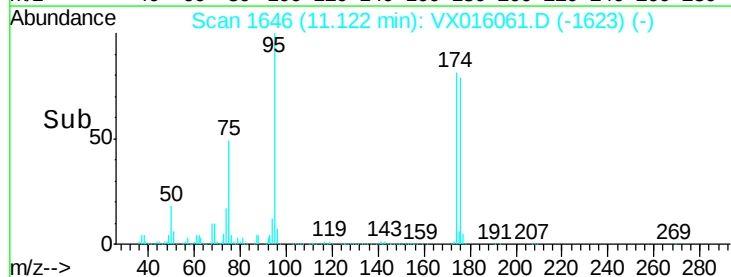
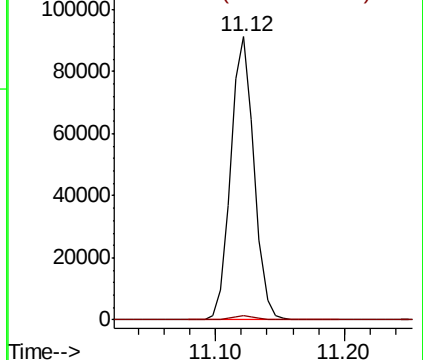
75 100

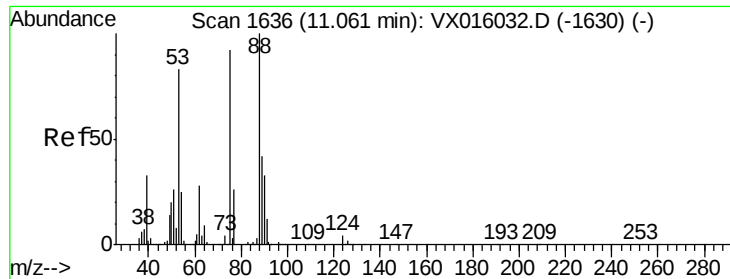
77 1.5 21.2 63.6#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0

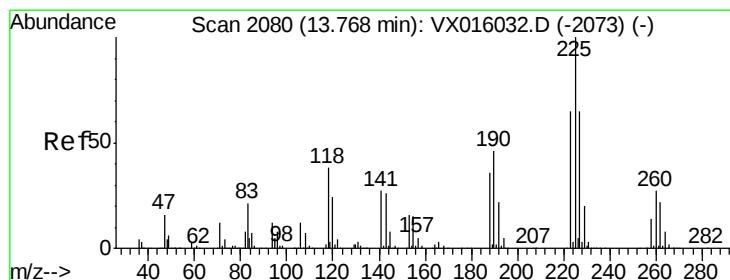
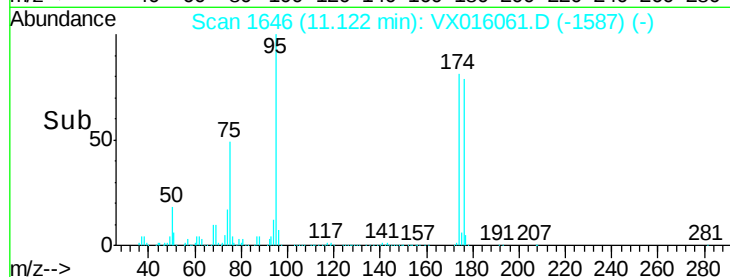
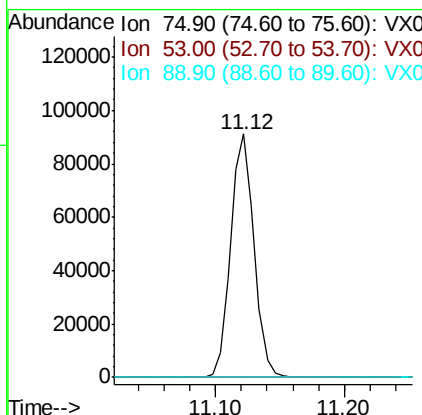
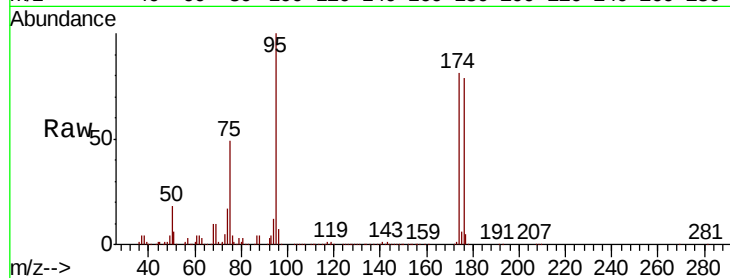




#81  
trans-1,4-Dichloro-2-butene  
Concen: 52.104 ug/l  
RT: 11.12 min Scan# 1646  
Delta R.T. 0.06 min  
Lab File: VX016061.D  
Acq: 05 May 2020 14:12

Instrument :  
MSVOA\_X  
ClientSampleId :  
TT-TB-20200504

Tot Ion: 75 Resp: 115690  
Ion Ratio Lower Upper  
75 100  
53 0.0 73.1 109.7#  
89 0.0 36.7 55.1#



#94  
Hexachlorobutadiene  
Concen: 0.576 ug/l  
RT: 13.77 min Scan# 2080  
Delta R.T. 0.00 min  
Lab File: VX016061.D  
Acq: 05 May 2020 14:12

Tgt Ion: 225 Resp: 129  
Ion Ratio Lower Upper  
225 100  
223 85.3 32.3 96.9  
227 69.0 31.8 95.4

