

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091620\  
 Data File : VX018453.D  
 Acq On : 16 Sep 2020 20:15  
 Operator : JC/SP  
 Sample : L4021-07 20X  
 Misc : 9.68g/5mL/100uL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 26 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 B16-5-7

Quant Time: Sep 17 04:25:59 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_X\METHOD\82X082120W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 21 03:03:56 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.64  | 168  | 443398   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.83  | 114  | 706068   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 10.10 | 117  | 677470   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 12.06 | 152  | 331799   | 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   | 312158   | 50.71 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.42% |          |
| 35) Dibromofluoromethane    | 5.46  | 113  | 245133   | 50.98 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.96% |          |
| 50) Toluene-d8              | 8.70  | 98   | 850648   | 47.50 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 95.00%  |          |
| 62) 4-Bromofluorobenzene    | 11.12 | 95   | 329930   | 46.82 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.64%  |          |

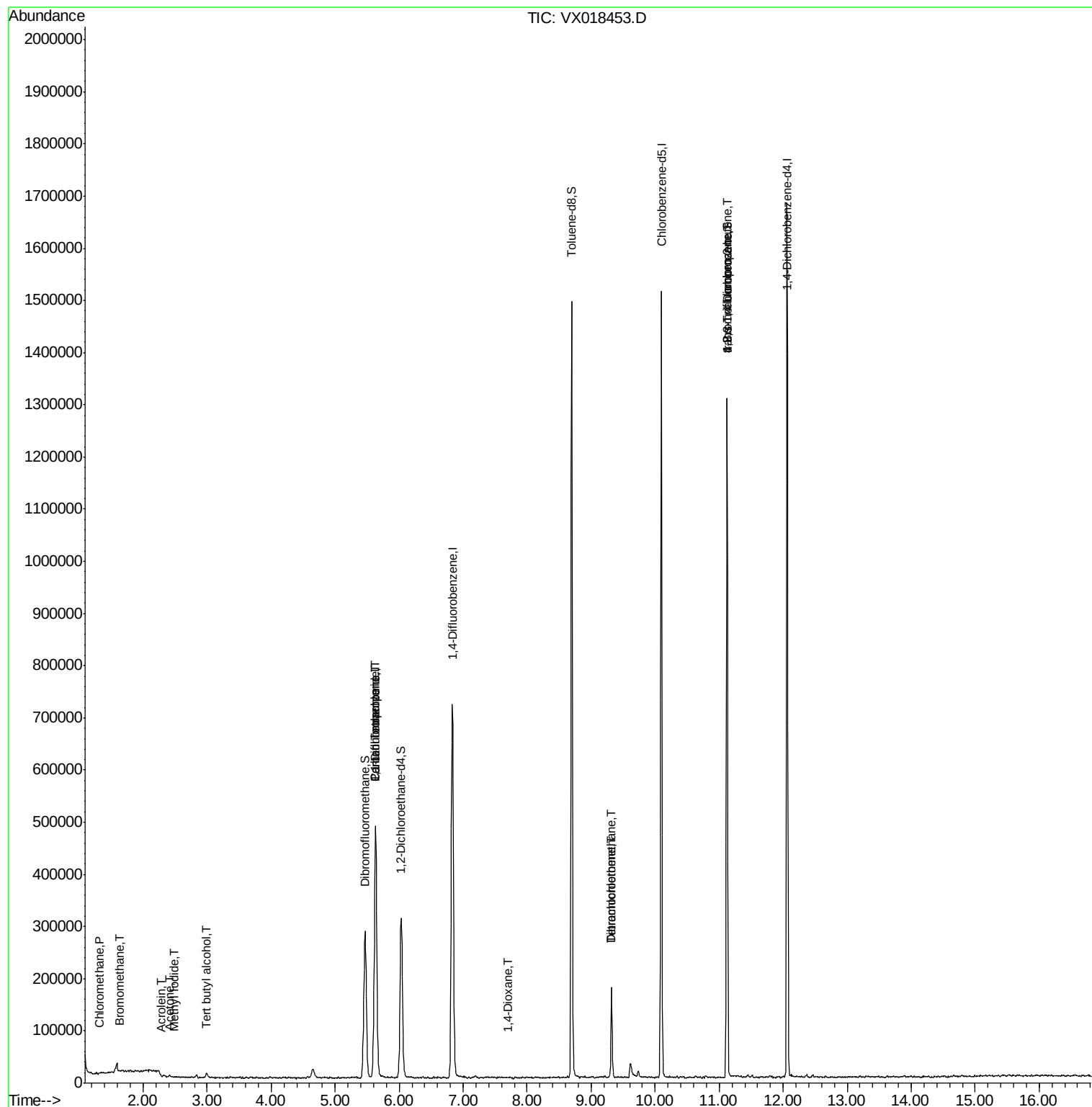
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 1.32  | 50   | 1268     | 0.223     | ug/l # | 43     |
| 5) Bromomethane                | 1.62  | 94   | 637      | 0.233     | ug/l # | 3      |
| 10) Methyl Iodide              | 2.49  | 142  | 315      | 5.350     | ug/l # | 42     |
| 11) Tert butyl alcohol         | 3.00  | 59   | 4939     | 4.127     | ug/l # | 71     |
| 13) Acrolein                   | 2.29  | 56   | 373      | 0.752     | ug/l # | 77     |
| 16) Acetone                    | 2.42  | 43   | 2205     | 0.919     | ug/l # | 75     |
| 20) Methylene Chloride         | 2.84  | 84   | 1962     | Below Cal | #      | 79     |
| 36) 1,1-Dichloropropene        | 5.64  | 75   | 33137    | 5.088     | ug/l # | 54     |
| 38) Carbon Tetrachloride       | 5.63  | 117  | 46257    | 6.303     | ug/l # | 17     |
| 49) 1,4-Dioxane                | 7.70  | 88   | 194      | 1.761     | ug/l # | 48     |
| 60) Dibromochloromethane       | 9.32  | 129  | 30461    | 5.018     | ug/l # | 11     |
| 64) Tetrachloroethene          | 9.32  | 164  | 31670    | 6.361     | ug/l   | 97     |
| 76) 1,2,3-Trichloropropane     | 11.12 | 75   | 170714   | 23.129    | ug/l # | 36     |
| 81) trans-1,4-Dichloro-2-buten | 11.12 | 75   | 170714   | 62.467    | ug/l # | 12     |

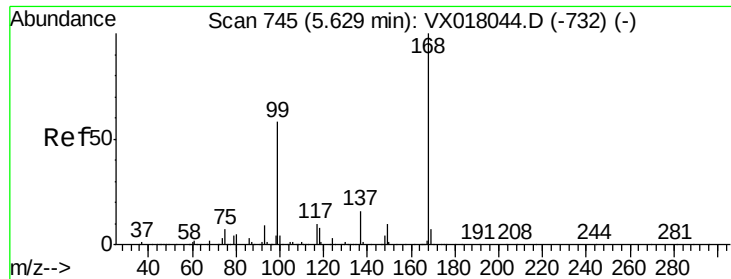
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_X  
ClientSampleId :  
B16-5-7

Quant Time: Sep 17 04:25:59 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_X\METHOD\82X082120W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 21 03:03:56 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.64 min Scan# 746

Delta R.T. 0.01 min

Lab File: VX018453.D

Acq: 16 Sep 2020 20:15

Instrument :

MSVOA\_X

ClientSampleId :

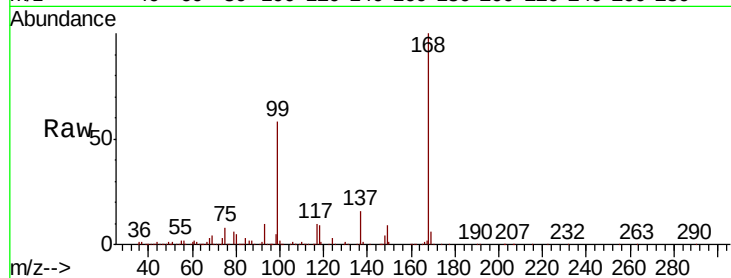
B16-5-7

Tot Ion:168 Resp: 443398

Ion Ratio Lower Upper

168 100

99 57.4 46.3 69.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.64

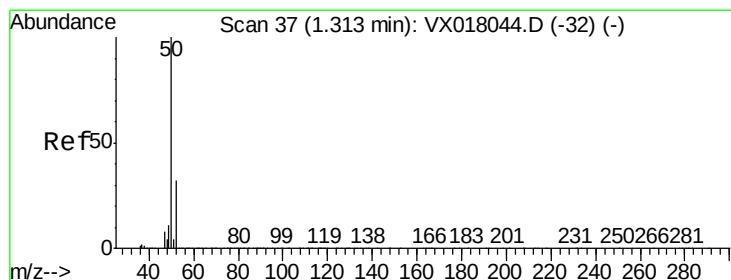
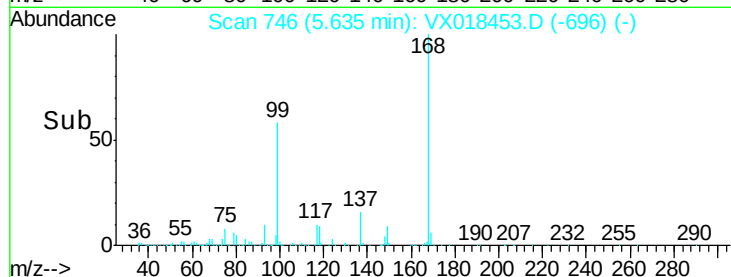
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.223 ug/l

RT: 1.32 min Scan# 39

Delta R.T. 0.01 min

Lab File: VX018453.D

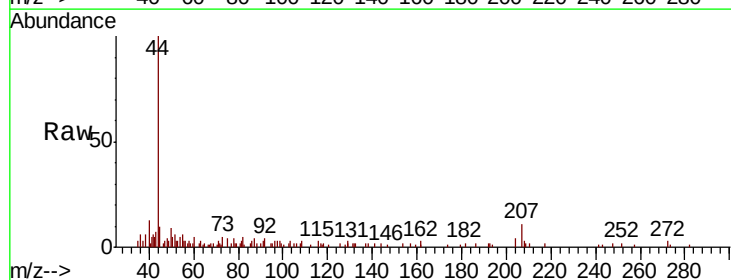
Acq: 16 Sep 2020 20:15

Tgt Ion: 50 Resp: 1268

Ion Ratio Lower Upper

50 100

52 0.0 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

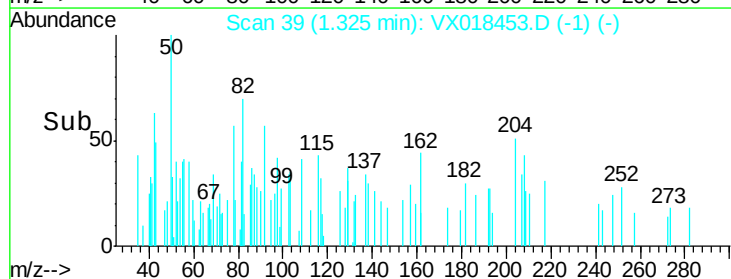
600

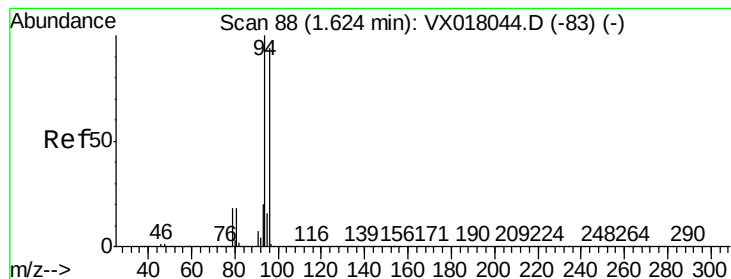
400

200

0

Time-->





#5

Bromomethane

Concen: 0.233 ug/l

RT: 1.62 min Scan# 88

Delta R.T. -0.00 min

Lab File: VX018453.D

Acq: 16 Sep 2020 20:15

Instrument :

MSVOA\_X

ClientSampled :

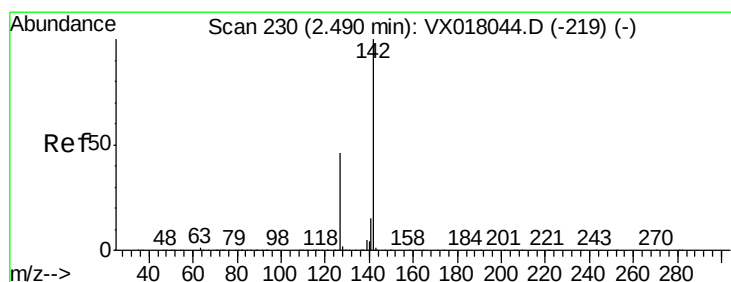
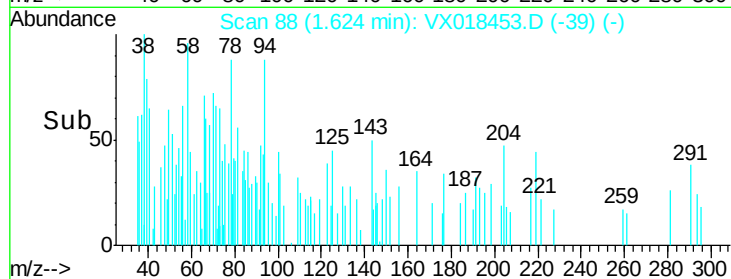
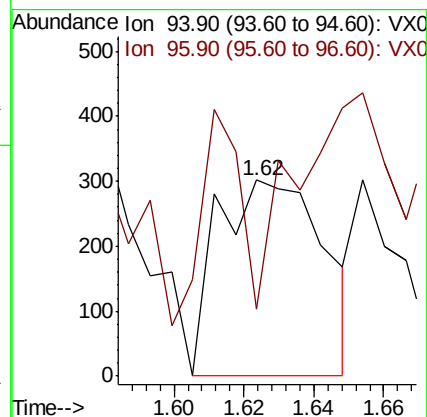
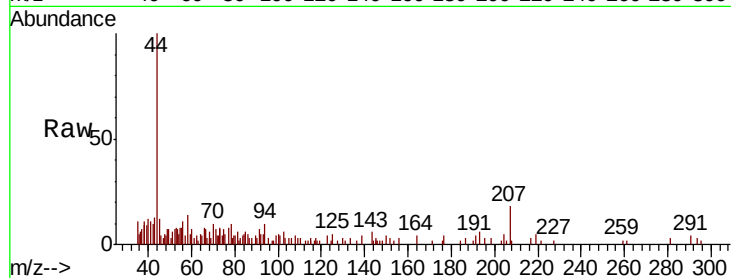
B16-5-7

Tot Ion: 94 Resp: 637

Ion Ratio Lower Upper

94 100

96 0.0 74.8 112.2#



#10

Methyl Iodide

Concen: 5.350 ug/l

RT: 2.49 min Scan# 230

Delta R.T. 0.00 min

Lab File: VX018453.D

Acq: 16 Sep 2020 20:15

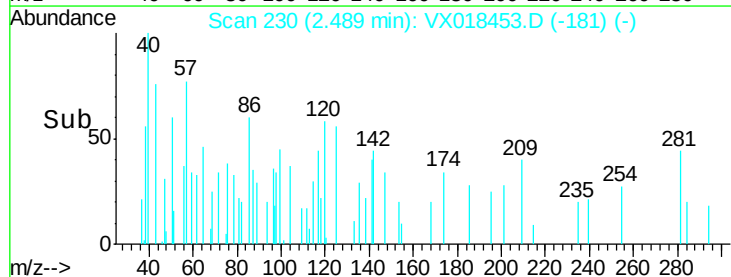
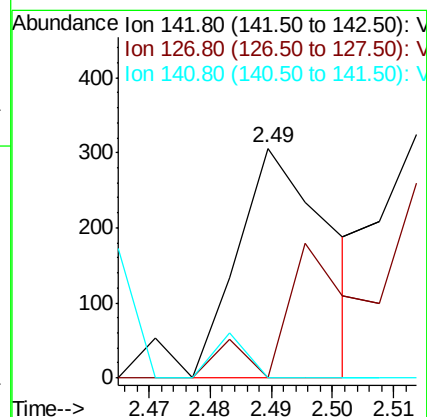
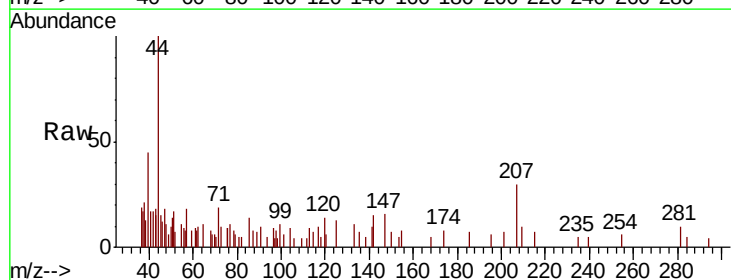
Tgt Ion: 142 Resp: 315

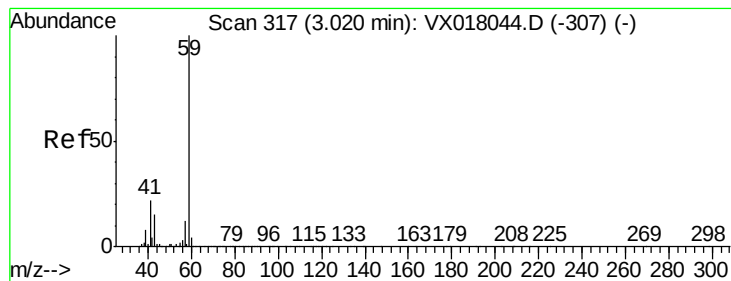
Ion Ratio Lower Upper

142 100

127 0.0 37.0 55.6#

141 7.0 11.5 17.3#



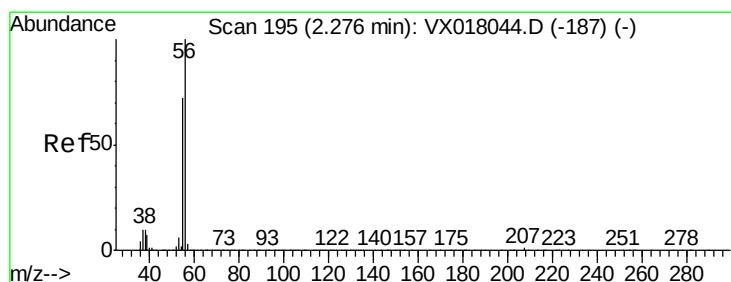
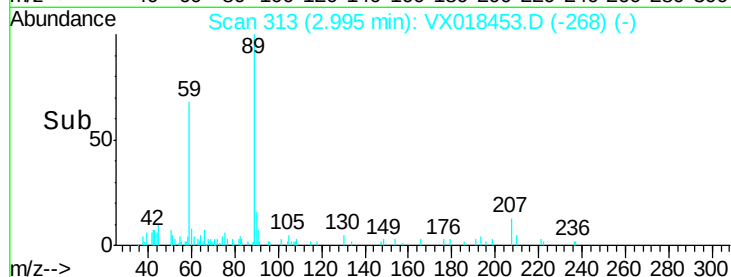
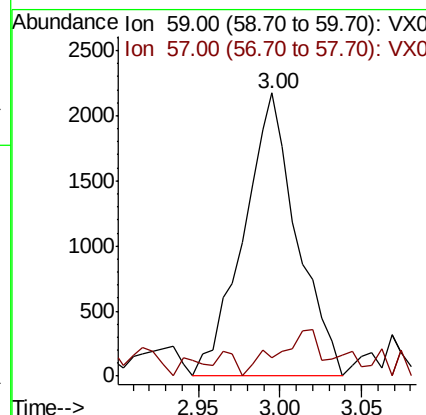
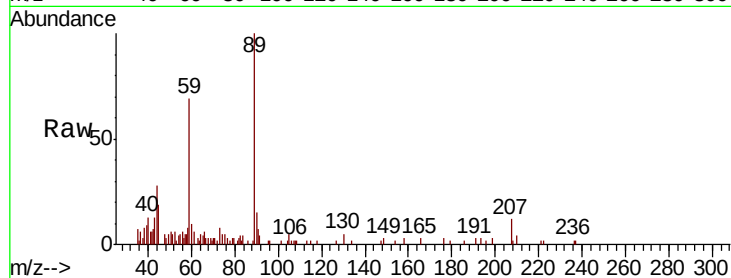


#11

Tert butyl alcohol  
Concen: 4.127 ug/l  
RT: 3.00 min Scan# 313  
Delta R.T. -0.02 min  
Lab File: VX018453.D  
Acq: 16 Sep 2020 20:15

Instrument :  
MSVOA\_X  
ClientSampleId :  
B16-5-7

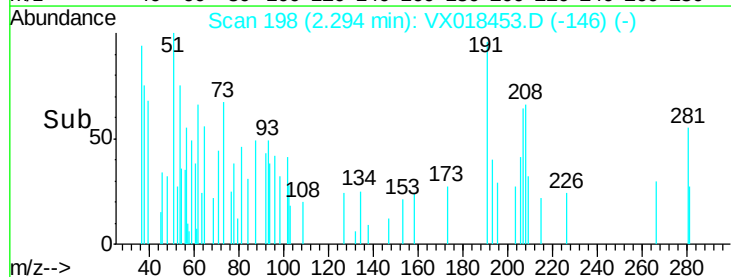
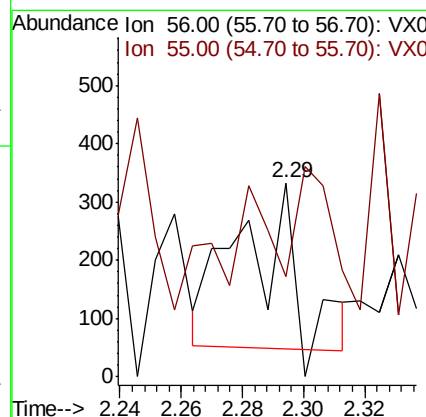
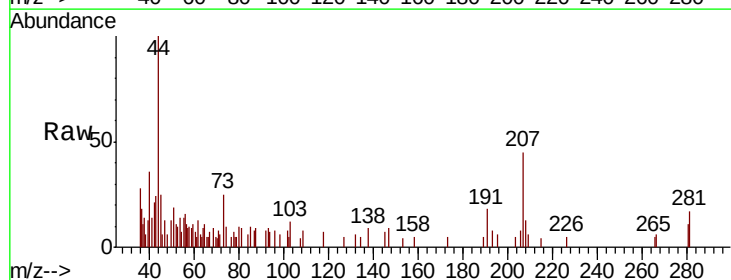
Tot Ion: 59 Resp: 4939  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.9 13.3#

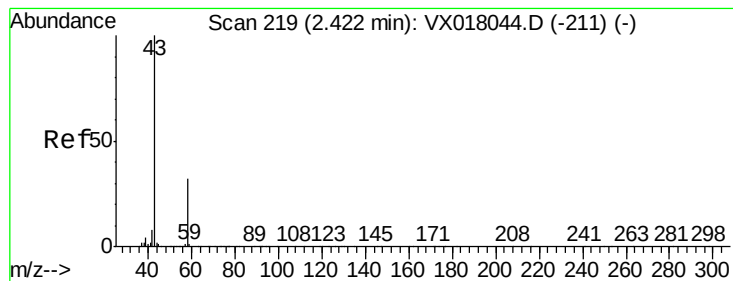


#13

Acrolein  
Concen: 0.752 ug/l  
RT: 2.29 min Scan# 198  
Delta R.T. 0.02 min  
Lab File: VX018453.D  
Acq: 16 Sep 2020 20:15

Tgt Ion: 56 Resp: 373  
Ion Ratio Lower Upper  
56 100  
55 52.5 57.0 85.6#





#16

Acetone

Concen: 0.919 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX018453.D

Acq: 16 Sep 2020 20:15

Instrument :

MSVOA\_X

ClientSampleId :

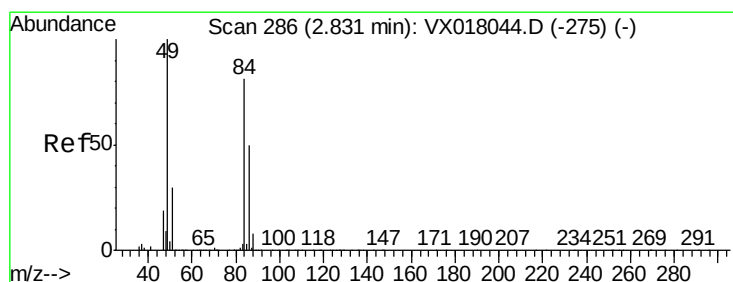
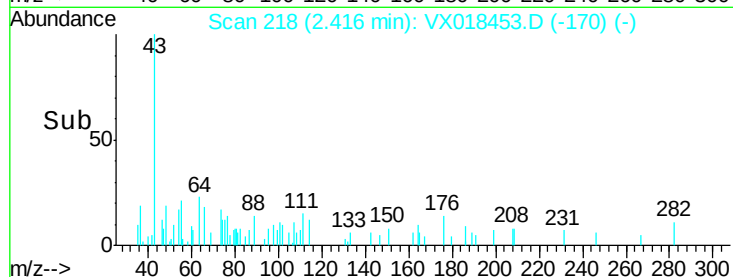
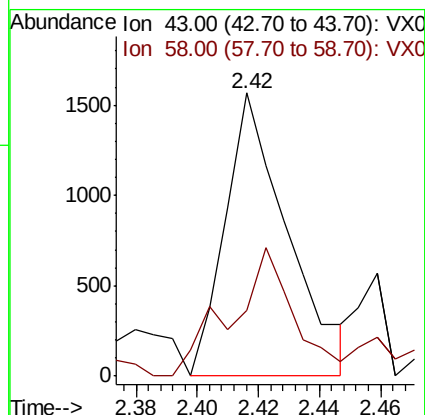
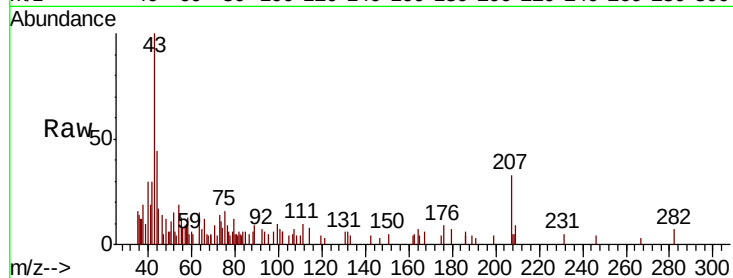
B16-5-7

Tot Ion: 43 Resp: 2205

Ion Ratio Lower Upper

43 100

58 18.0 25.5 38.3#



#20

Methylene Chloride

Concen: Below Cal

RT: 2.84 min Scan# 287

Delta R.T. 0.01 min

Lab File: VX018453.D

Acq: 16 Sep 2020 20:15

Tgt Ion: 84 Resp: 1962

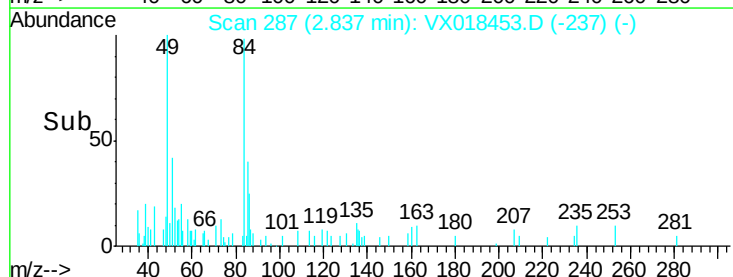
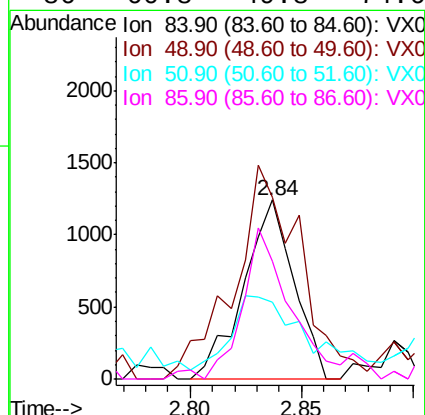
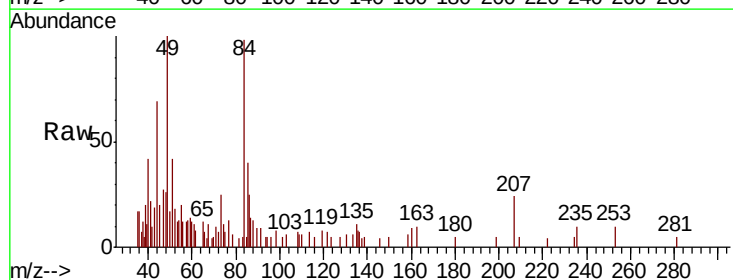
Ion Ratio Lower Upper

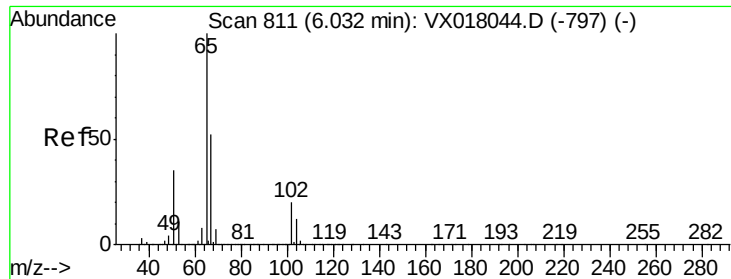
84 100

49 84.0 98.6 148.0#

51 32.8 29.6 44.4

86 60.8 49.8 74.6

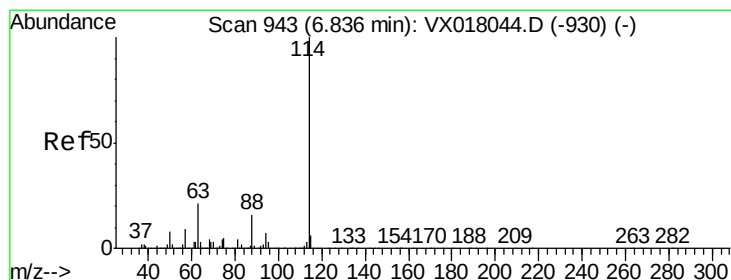
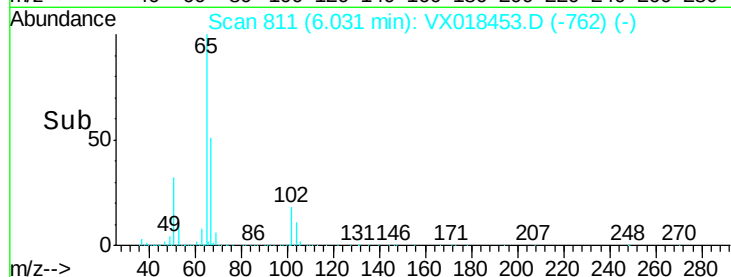
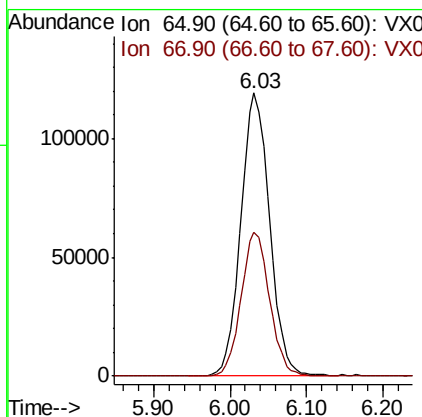
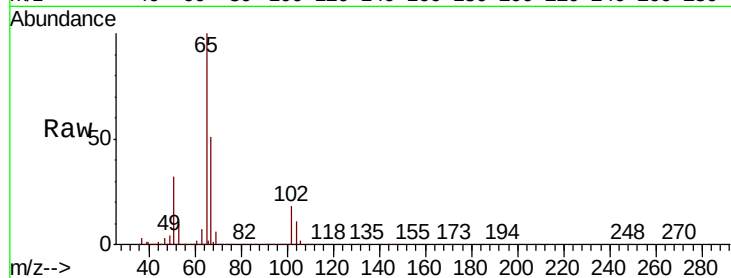




#33  
 1,2-Dichloroethane-d4  
 Concen: 50.712 ug/l  
 RT: 6.03 min Scan# 811  
 Delta R.T. -0.00 min  
 Lab File: VX018453.D  
 Acq: 16 Sep 2020 20:15

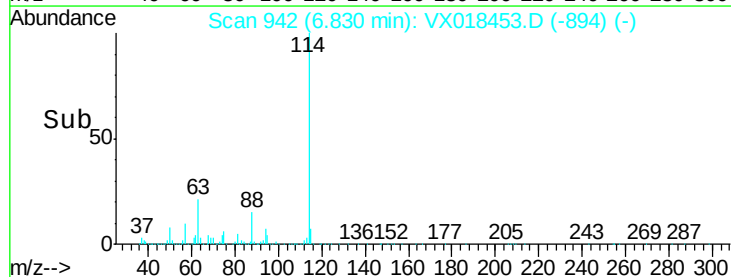
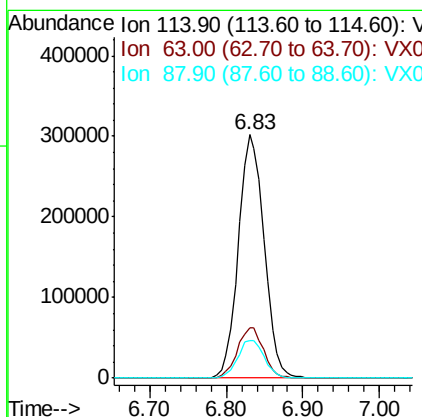
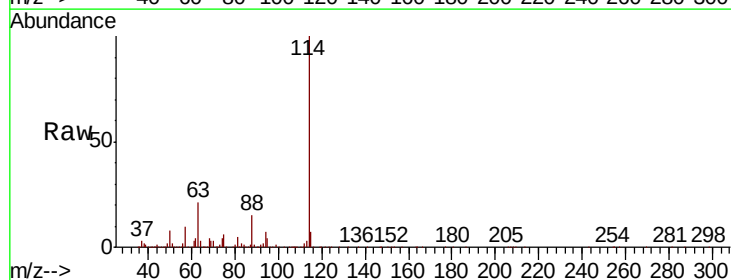
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 B16-5-7

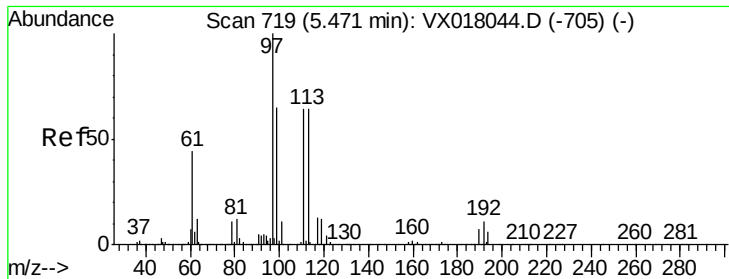
Tot Ion: 65 Resp: 312158  
 Ion Ratio Lower Upper  
 65 100  
 67 50.4 0.0 105.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.83 min Scan# 942  
 Delta R.T. -0.01 min  
 Lab File: VX018453.D  
 Acq: 16 Sep 2020 20:15

Tgt Ion: 114 Resp: 706068  
 Ion Ratio Lower Upper  
 114 100  
 63 20.8 0.0 42.6  
 88 15.3 0.0 31.8





#35

Dibromofluoromethane

Concen: 50.977 ug/l

RT: 5.46 min Scan# 718

Delta R.T. -0.01 min

Lab File: VX018453.D

Acq: 16 Sep 2020 20:15

Instrument :

MSVOA\_X

ClientSampleId :

B16-5-7

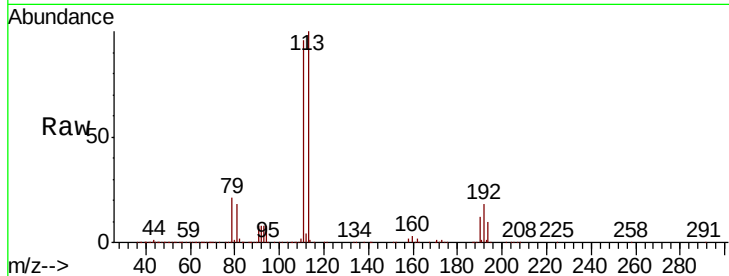
Tot Ion:113 Resp: 245133

Ion Ratio Lower Upper

113 100

111 101.6 81.6 122.4

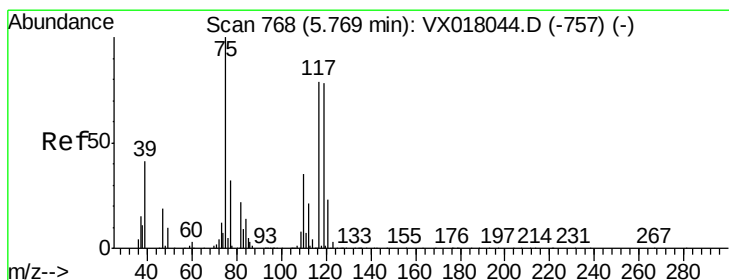
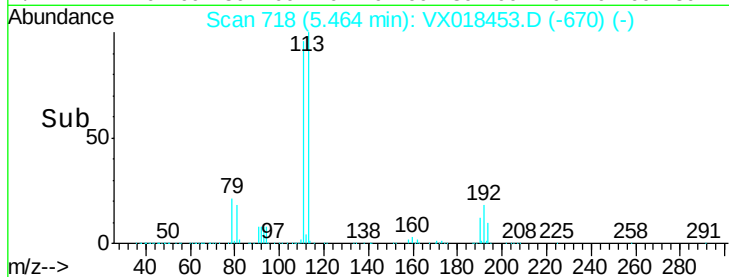
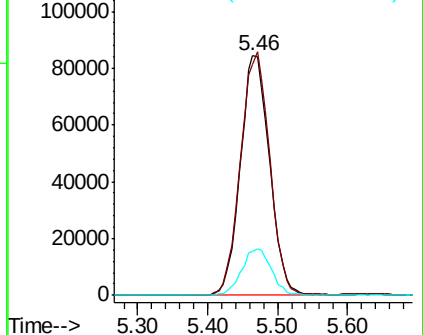
192 19.8 15.8 23.8



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: 5.088 ug/l

RT: 5.64 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX018453.D

Acq: 16 Sep 2020 20:15

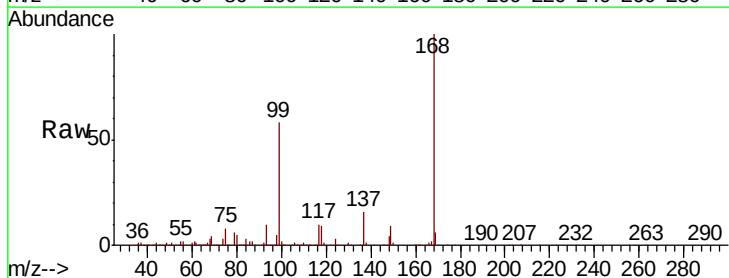
Tgt Ion: 75 Resp: 33137

Ion Ratio Lower Upper

75 100

110 13.3 18.0 54.0#

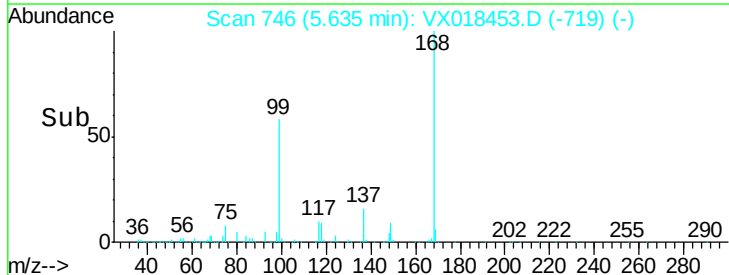
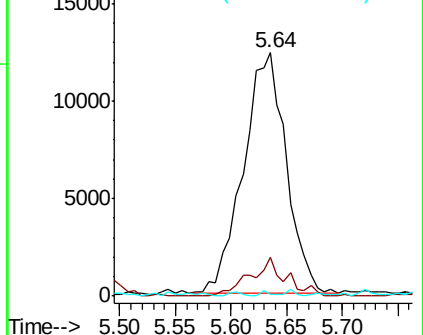
77 0.6 24.4 36.6#



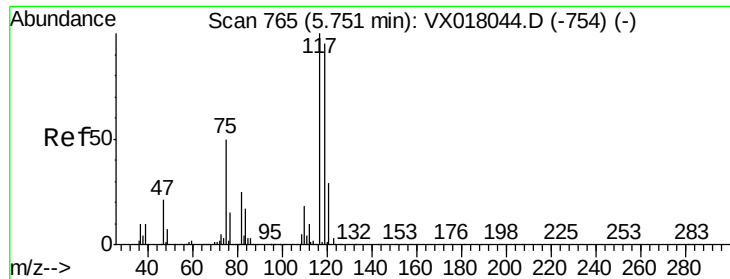
Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0







#38

Carbon Tetrachloride

Concen: 6.303 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.12 min

Lab File: VX018453.D

Acq: 16 Sep 2020 20:15

Instrument :

MSVOA\_X

ClientSampled :

B16-5-7

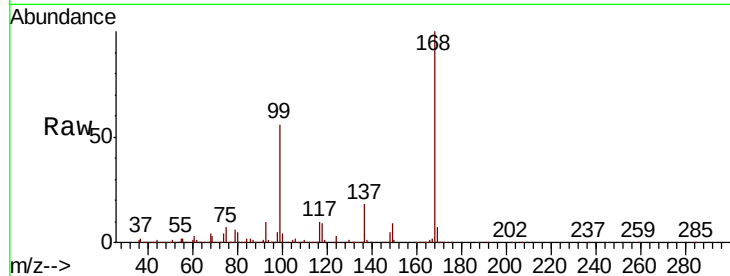
Tot Ion:117 Resp: 46257

Ion Ratio Lower Upper

117 100

119 6.0 75.8 113.6#

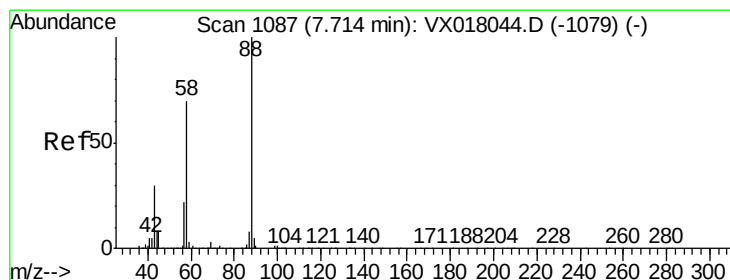
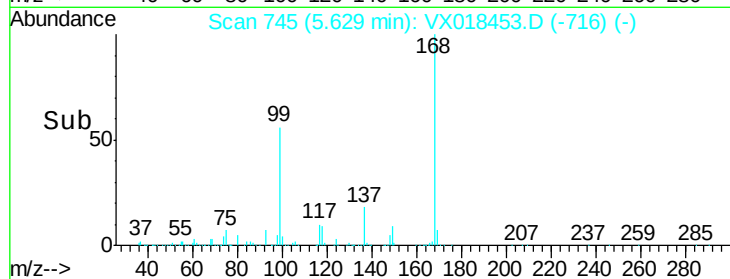
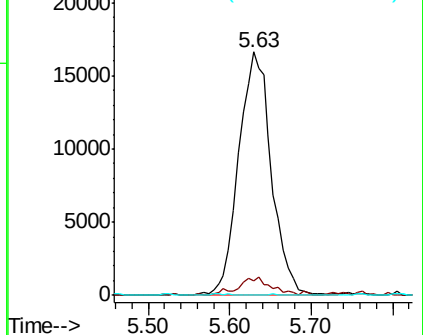
121 0.0 23.4 35.0#



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: 1.761 ug/l

RT: 7.70 min Scan# 1085

Delta R.T. -0.01 min

Lab File: VX018453.D

Acq: 16 Sep 2020 20:15

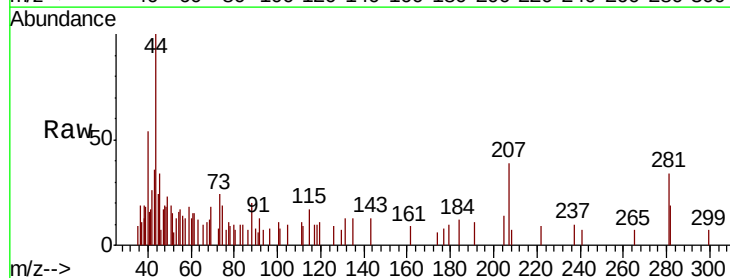
Tgt Ion: 88 Resp: 194

Ion Ratio Lower Upper

88 100

43 0.0 27.4 41.0#

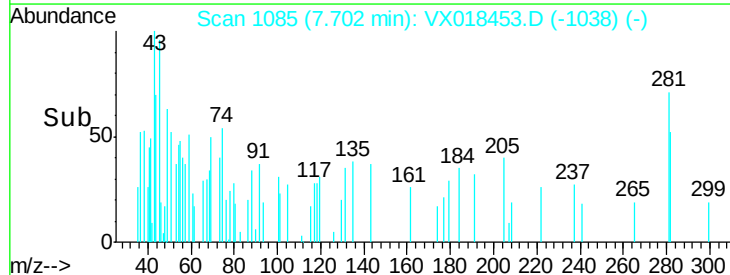
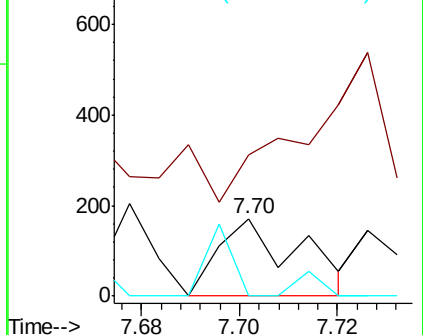
58 30.4 56.4 84.6#

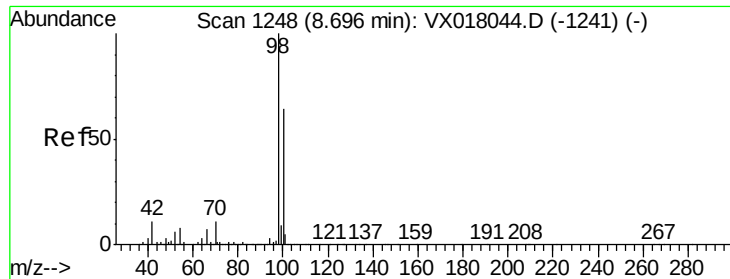


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 47.495 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX018453.D

Acq: 16 Sep 2020 20:15

Instrument :

MSVOA\_X

ClientSampleId :

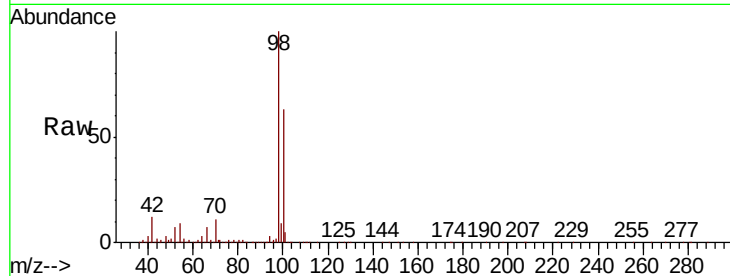
B16-5-7

Tot Ion: 98 Resp: 850648

Ion Ratio Lower Upper

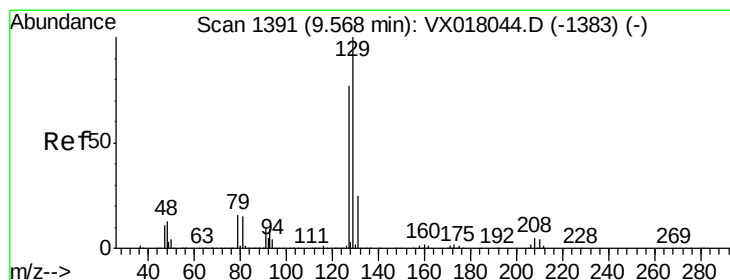
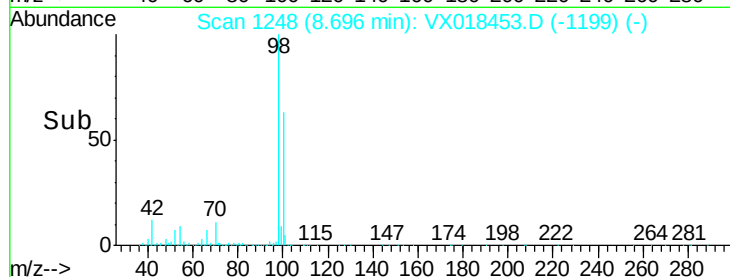
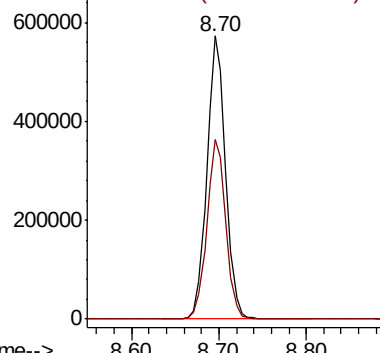
98 100

100 64.4 52.2 78.4



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V



#60

Dibromochloromethane

Concen: 5.018 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.25 min

Lab File: VX018453.D

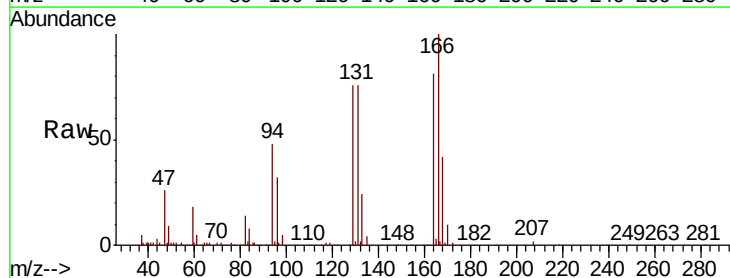
Acq: 16 Sep 2020 20:15

Tgt Ion: 129 Resp: 30461

Ion Ratio Lower Upper

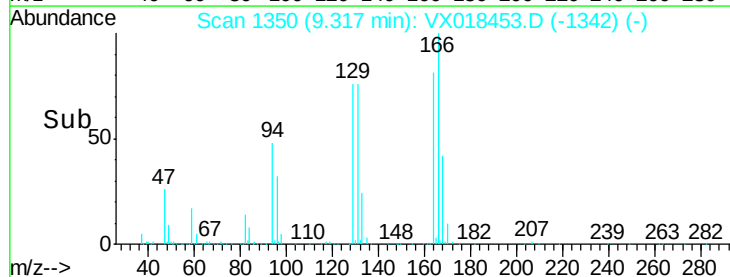
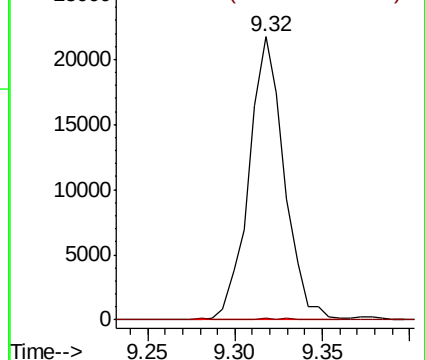
129 100

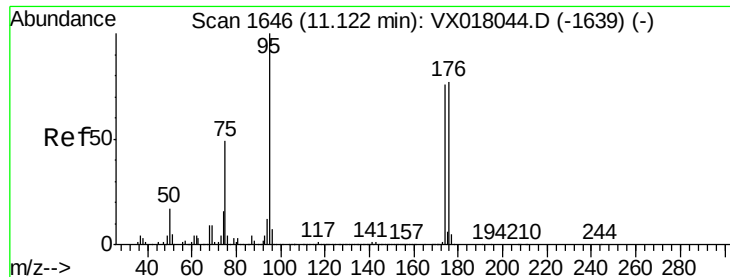
127 0.3 38.9 116.6#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V





#62

4-Bromofluorobenzene

Concen: 46.821 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX018453.D

Acq: 16 Sep 2020 20:15

Instrument :

MSVOA\_X

ClientSampleId :

B16-5-7

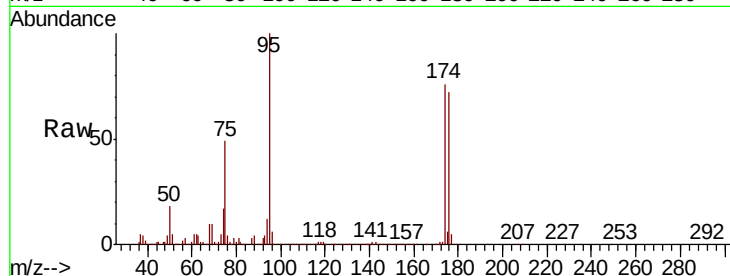
Tot Ion: 95 Resp: 329930

Ion Ratio Lower Upper

95 100

174 78.9 0.0 160.2

176 74.9 0.0 155.8

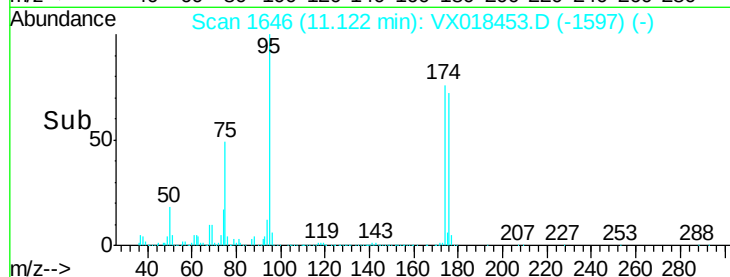


Abundance Ion 94.90 (94.60 to 95.60): VX018044.D (-1639) (-)

Ion 173.80 (173.50 to 174.50): VX018044.D (-1639) (-)

Ion 175.80 (175.50 to 176.50): VX018044.D (-1639) (-)

Time-->

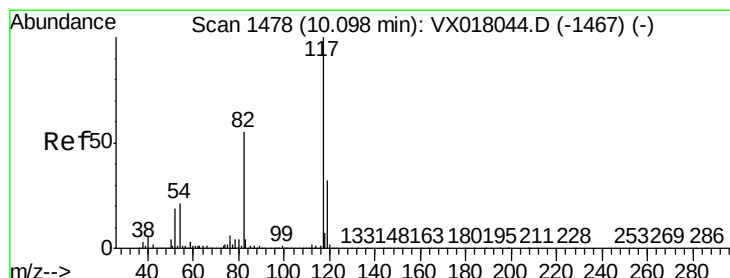


Abundance Ion 94.90 (94.60 to 95.60): VX018453.D (-1597) (-)

Ion 173.80 (173.50 to 174.50): VX018453.D (-1597) (-)

Ion 175.80 (175.50 to 176.50): VX018453.D (-1597) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.10 min Scan# 1478

Delta R.T. -0.00 min

Lab File: VX018453.D

Acq: 16 Sep 2020 20:15

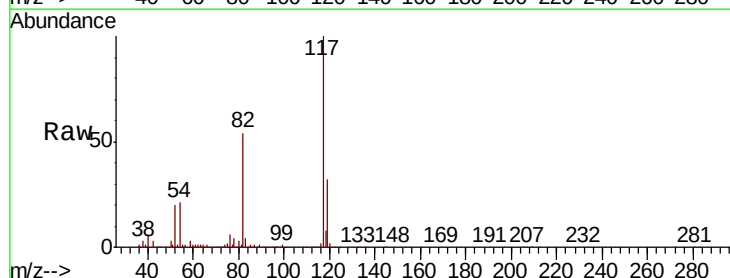
Tgt Ion: 117 Resp: 677470

Ion Ratio Lower Upper

117 100

82 54.0 44.2 66.2

119 31.7 25.7 38.5

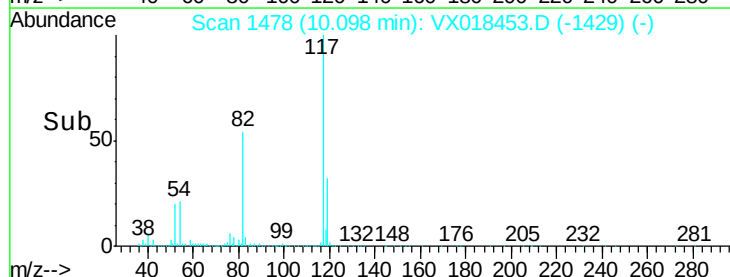


Abundance Ion 116.90 (116.60 to 117.60): VX018044.D (-1467) (-)

Ion 82.00 (81.70 to 82.70): VX018044.D (-1467) (-)

Ion 118.90 (118.60 to 119.60): VX018044.D (-1467) (-)

Time-->

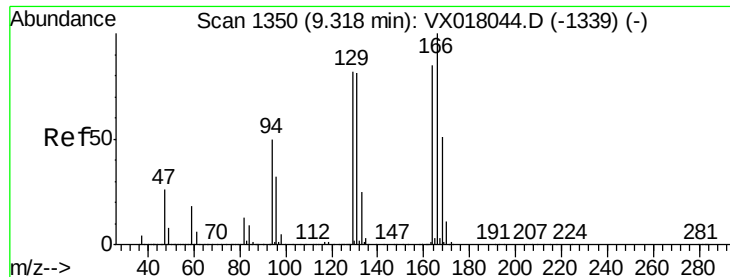


Abundance Ion 116.90 (116.60 to 117.60): VX018453.D (-1429) (-)

Ion 82.00 (81.70 to 82.70): VX018453.D (-1429) (-)

Ion 118.90 (118.60 to 119.60): VX018453.D (-1429) (-)

Time-->



#64

Tetrachloroethene

Concen: 6.361 ug/l

RT: 9.32 min Scan# 1350

Delta R.T. -0.00 min

Lab File: VX018453.D

Acq: 16 Sep 2020 20:15

Instrument :

MSVOA\_X

ClientSampleId :

B16-5-7

Tot Ion:164 Resp: 31670

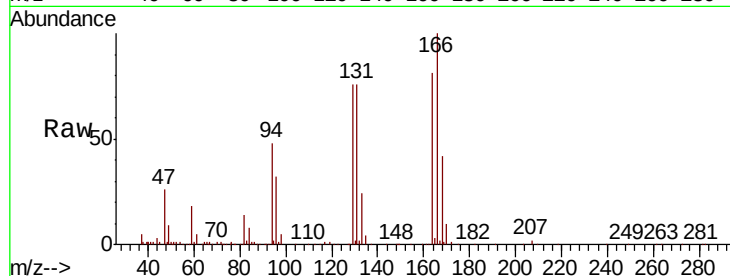
Ion Ratio Lower Upper

164 100

166 123.4 94.2 141.2

129 93.5 76.9 115.3

131 93.5 76.1 114.1



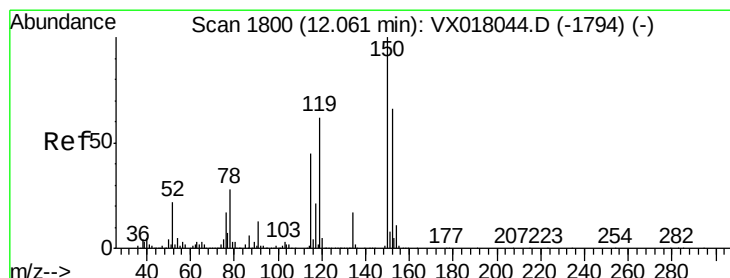
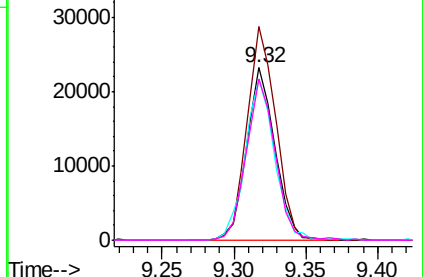
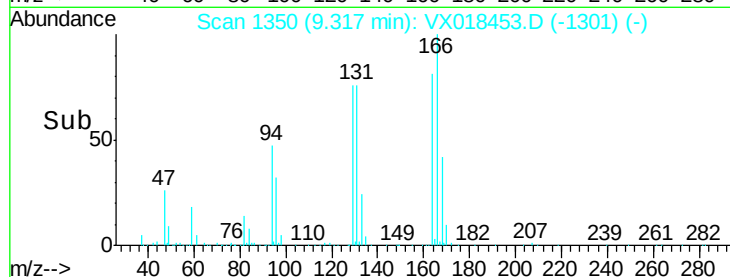
Abundance Ion 163.80 (163.50 to 164.50): V

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

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.06 min Scan# 1800

Delta R.T. -0.00 min

Lab File: VX018453.D

Acq: 16 Sep 2020 20:15

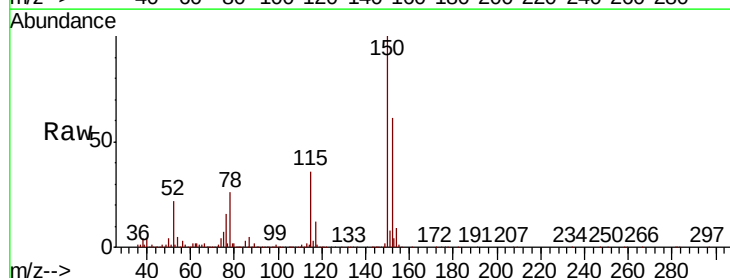
Tgt Ion:152 Resp: 331799

Ion Ratio Lower Upper

152 100

115 59.8 41.5 124.5

150 161.6 0.0 343.8

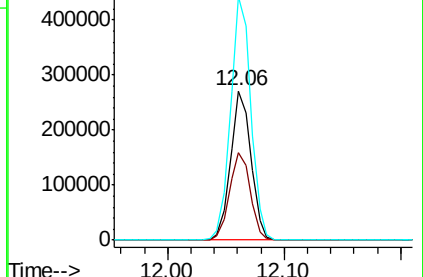
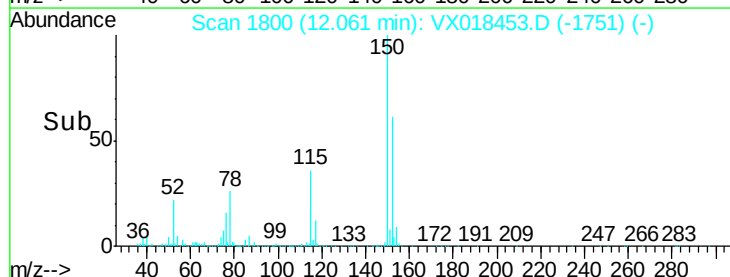


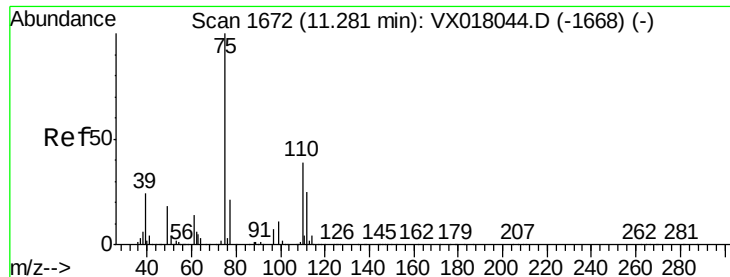
Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

Time-->





#76

1,2,3-Trichloropropane

Concen: 23.129 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX018453.D

Acq: 16 Sep 2020 20:15

Instrument :

MSVOA\_X

ClientSampled :

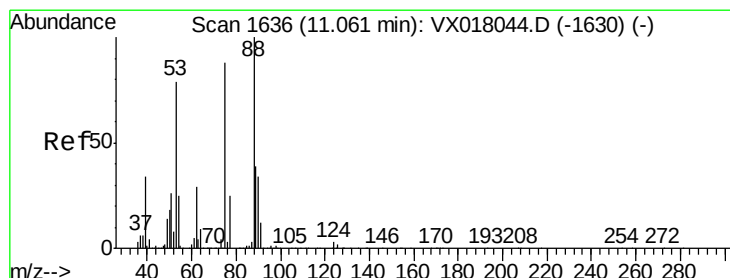
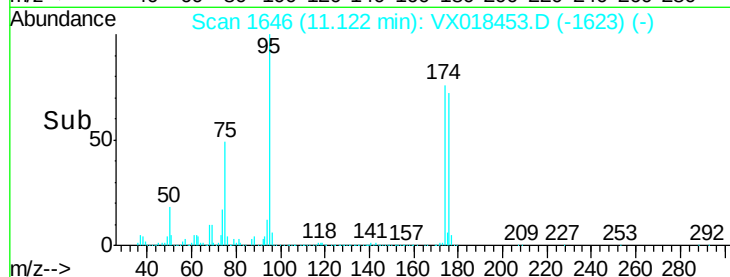
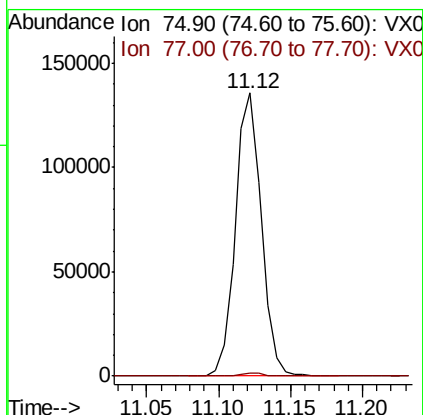
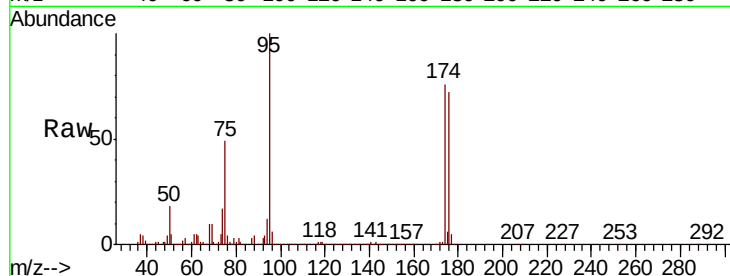
B16-5-7

Tot Ion: 75 Resp: 170714

Ion Ratio Lower Upper

75 100

77 1.1 20.8 62.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 62.467 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX018453.D

Acq: 16 Sep 2020 20:15

Tgt Ion: 75 Resp: 170714

Ion Ratio Lower Upper

75 100

53 0.3 74.7 112.1#

89 0.1 36.6 54.8#

