

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY072420\  
 Data File : VY003337.D  
 Acq On : 24 Jul 2020 17:15  
 Operator : SY/MD  
 Sample : L3436-05  
 Misc : 7.77G/5ML/MSVOA Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 5

Quant Time: Jul 25 01:39:44 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y071020S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jul 10 13:18:03 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 460438   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 720779   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 634372   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 276182   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.15  | 65   | 222965   | 57.37 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 114.74% |          |
| 35) Dibromofluoromethane    | 7.72  | 113  | 223132   | 53.79 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.58% |          |
| 50) Toluene-d8              | 10.18 | 98   | 854940   | 55.44 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 110.88% |          |
| 62) 4-Bromofluorobenzene    | 12.48 | 95   | 261463   | 46.93 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.86%  |          |

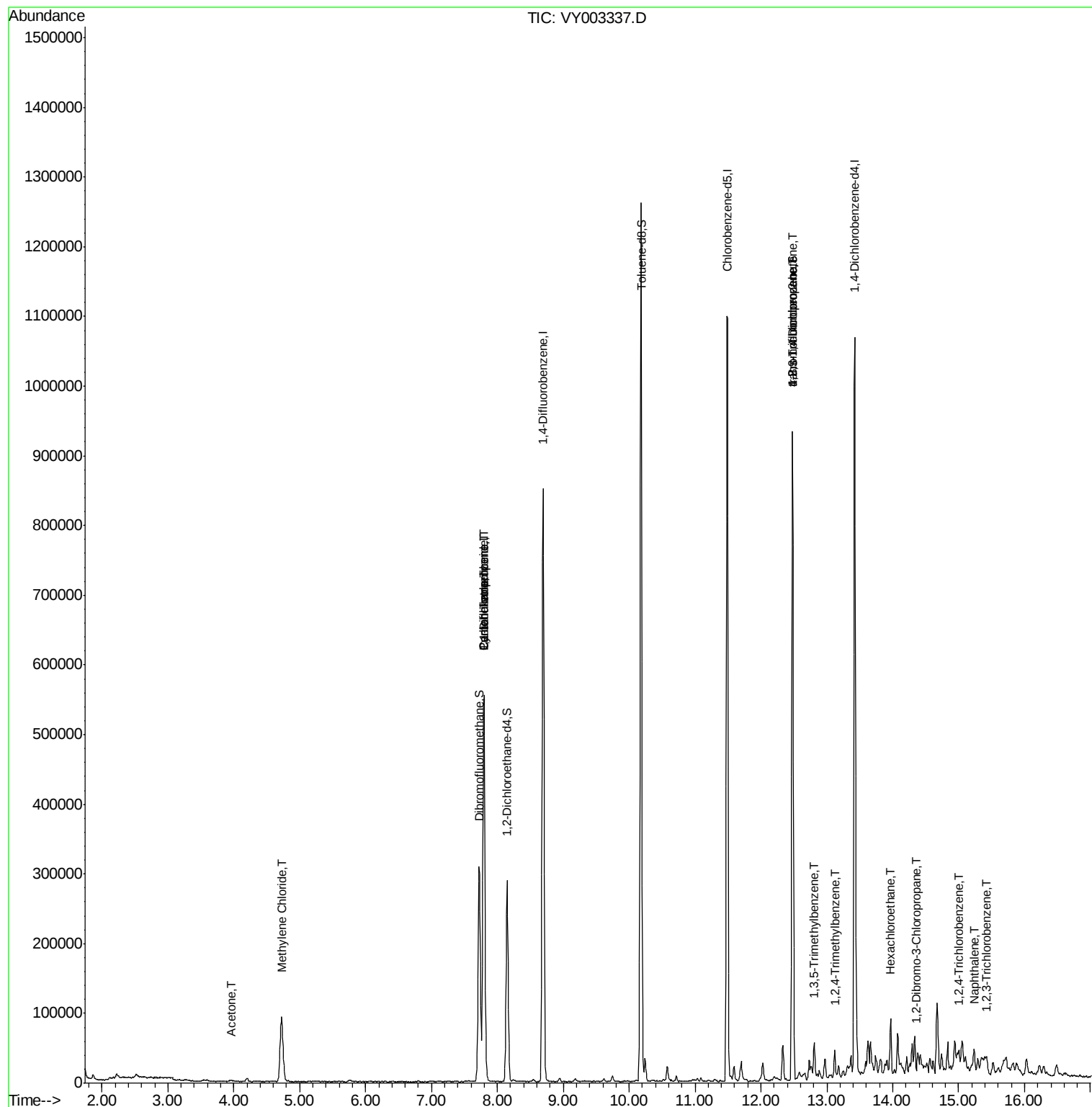
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 16) Acetone                    | 3.96  | 43   | 2626     | 3.025   | ug/l # | 84     |
| 20) Methylene Chloride         | 4.72  | 84   | 72208    | 12.400  | ug/l   | 97     |
| 31) Cyclohexane                | 7.79  | 56   | 8020     | 1.135   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.80  | 75   | 31240    | 4.782   | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.80  | 117  | 42219    | 6.260   | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75   | 132676   | 54.271  | ug/l # | 100    |
| 80) 1,3,5-Trimethylbenzene     | 12.81 | 105  | 21137    | 1.441   | ug/l   | 94     |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75   | 132676   | 105.622 | ug/l # | 13     |
| 84) 1,2,4-Trimethylbenzene     | 13.12 | 105  | 20634    | 1.398   | ug/l   | 98     |
| 90) Hexachloroethane           | 13.97 | 117  | 4036     | 1.334   | ug/l # | 16     |
| 92) 1,2-Dibromo-3-Chloropropan | 14.36 | 75   | 690      | 1.252   | ug/l   | 60     |
| 93) 1,2,4-Trichlorobenzene     | 15.00 | 180  | 5817     | 1.098   | ug/l # | 58     |
| 95) Naphthalene                | 15.23 | 128  | 22406    | 2.560   | ug/l # | 93     |
| 96) 1,2,3-Trichlorobenzene     | 15.42 | 180  | 6764     | 1.616   | ug/l # | 60     |

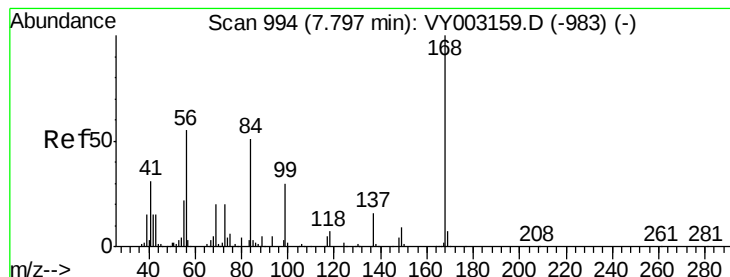
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 25 01:39:44 2020  
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Quant Title : SW846 8260  
QLast Update : Fri Jul 10 13:18:03 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.00 min

Lab File: VY003337.D

Acq: 24 Jul 2020 17:15

Instrument :

MSVOA\_Y

ClientSampleId :

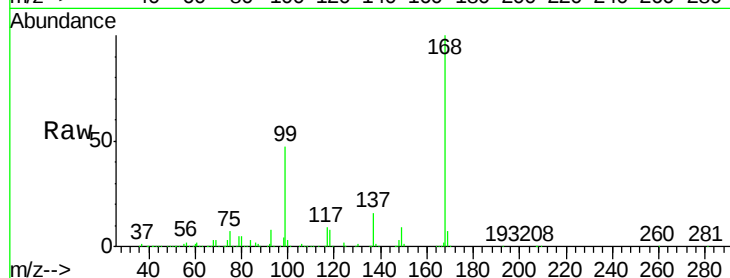
5

Tot Ion:168 Resp: 460438

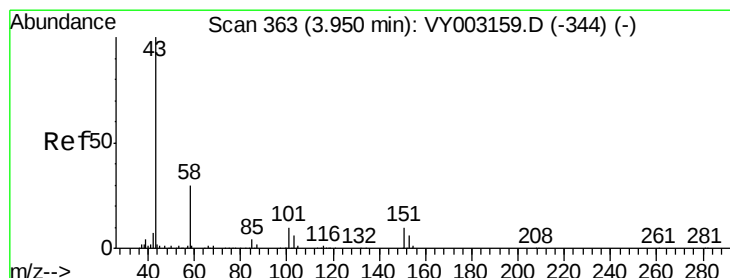
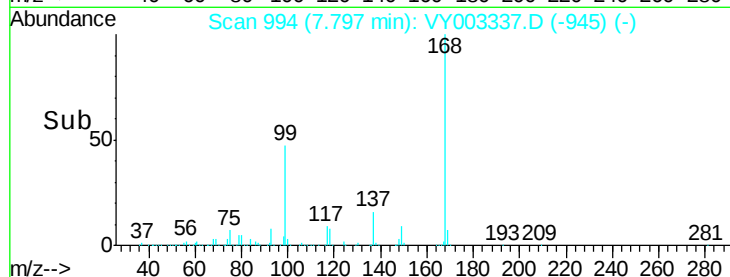
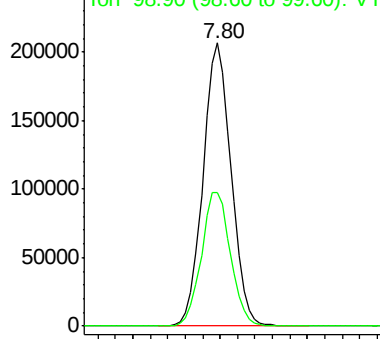
Ion Ratio Lower Upper

168 100

99 47.3 37.3 55.9



Abundance Ion 167.90 (167.60 to 168.60): VY003337.D (-945) (-)



#16

Acetone

Concen: 3.025 ug/l

RT: 3.96 min Scan# 365

Delta R.T. 0.01 min

Lab File: VY003337.D

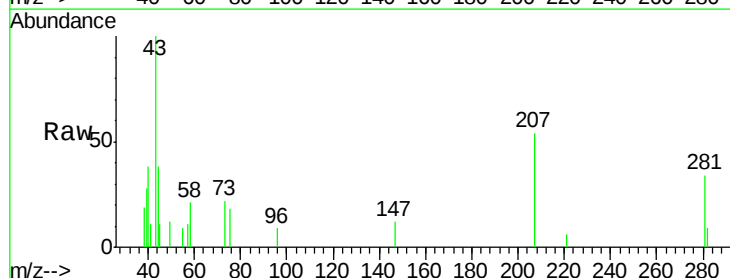
Acq: 24 Jul 2020 17:15

Tgt Ion: 43 Resp: 2626

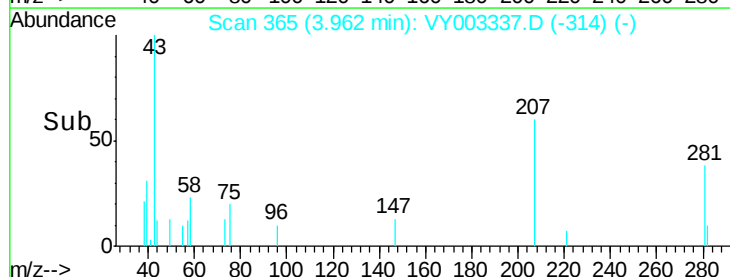
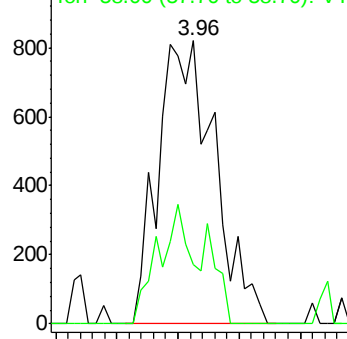
Ion Ratio Lower Upper

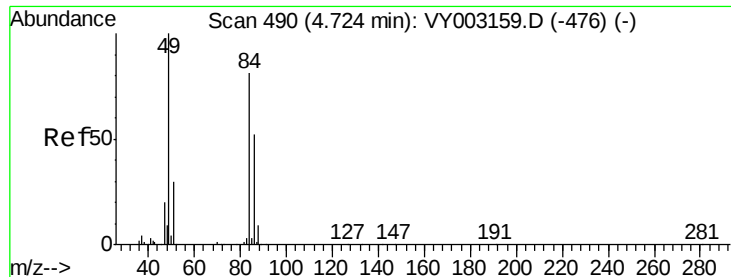
43 100

58 21.0 23.8 35.6#



Abundance Ion 43.00 (42.70 to 43.70): VY003337.D (-314) (-)

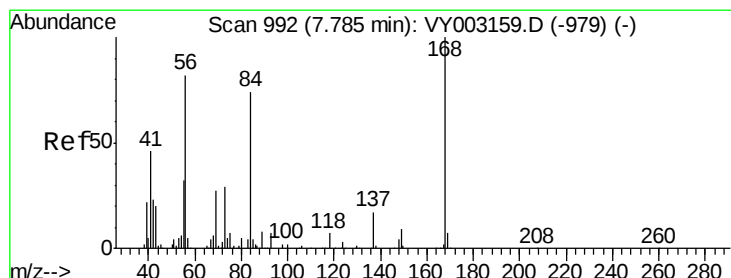
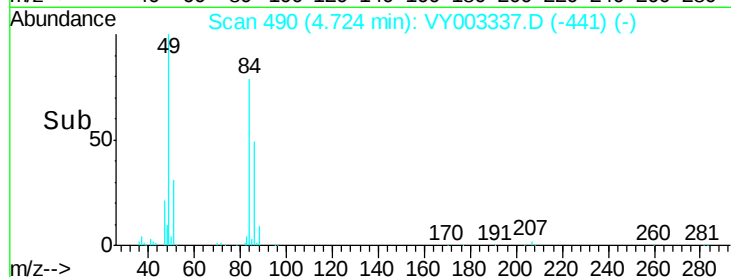
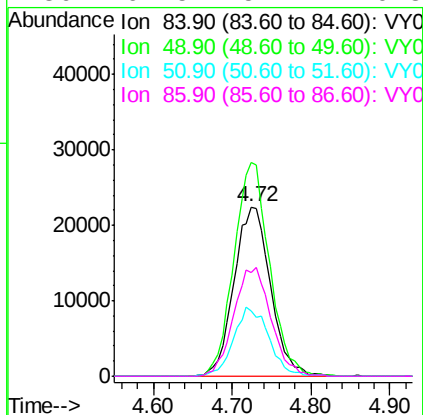
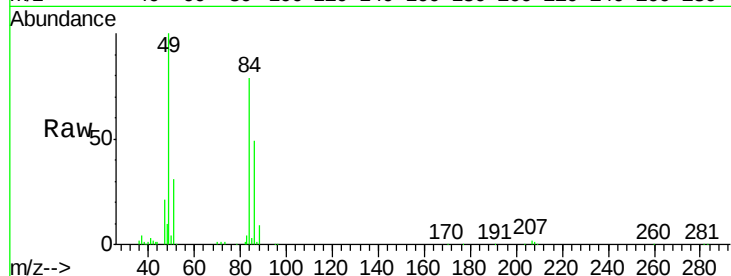




#20  
Methylene Chloride  
Concen: 12.400 ug/l  
RT: 4.72 min Scan# 490  
Delta R.T. 0.00 min  
Lab File: VY003337.D  
Acq: 24 Jul 2020 17:15

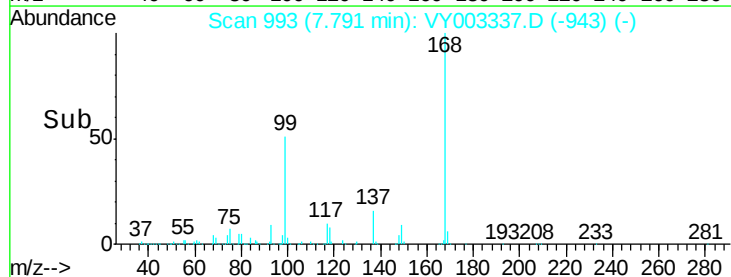
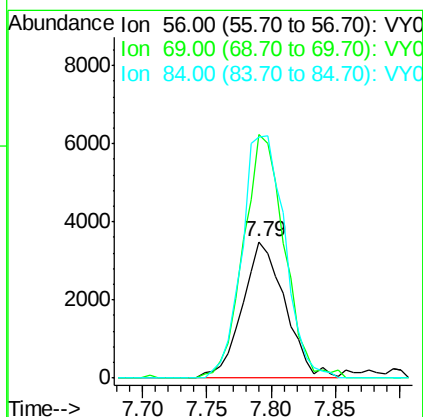
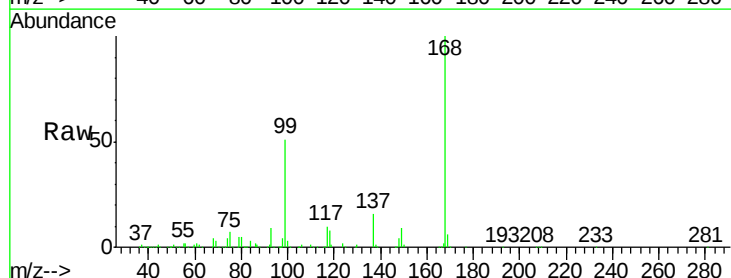
Instrument :  
MSVOA\_Y  
ClientSampleId :  
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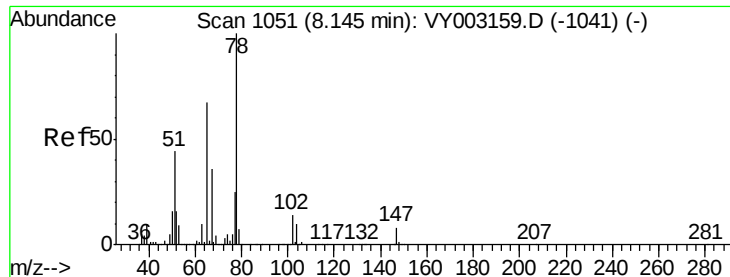
Tot Ion: 84 Resp: 72208  
Ion Ratio Lower Upper  
84 100  
49 125.9 98.2 147.4  
51 38.9 29.8 44.6  
86 61.5 51.2 76.8



#31  
Cyclohexane  
Concen: 1.135 ug/l  
RT: 7.79 min Scan# 993  
Delta R.T. 0.01 min  
Lab File: VY003337.D  
Acq: 24 Jul 2020 17:15

Tgt Ion: 56 Resp: 8020  
Ion Ratio Lower Upper  
56 100  
69 178.6 26.7 40.1#  
84 176.6 72.3 108.5#





#33

1,2-Dichloroethane-d4

Concen: 57.373 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. 0.01 min

Lab File: VY003337.D

Acq: 24 Jul 2020 17:15

Instrument :

MSVOA\_Y

ClientSampleId :

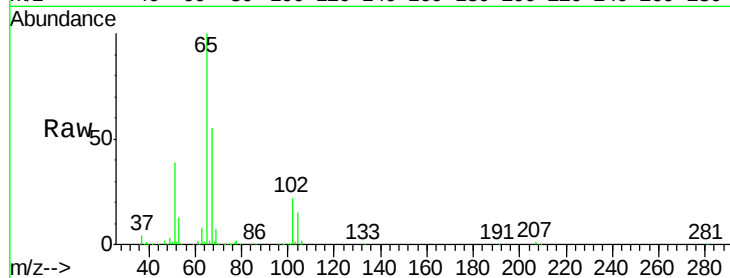
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Tot Ion: 65 Resp: 222965

Ion Ratio Lower Upper

65 100

67 53.8 0.0 105.2



Abundance Ion 64.90 (64.60 to 65.60): VY003337.D (-1041) (-)

Ion 66.90 (66.60 to 67.60): VY003337.D (-1041) (-)

8.15

100000

80000

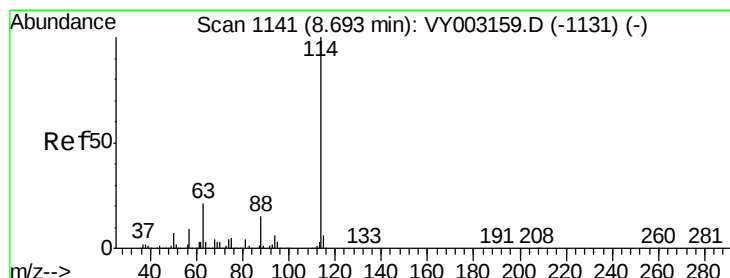
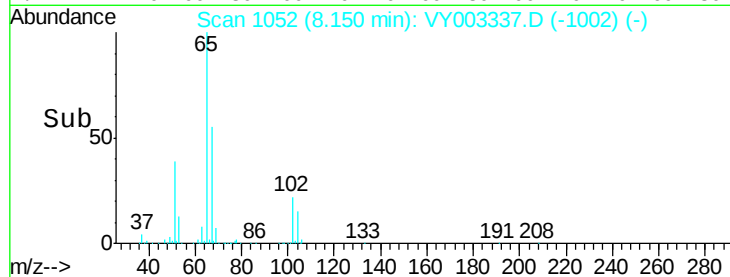
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.69 min Scan# 1141

Delta R.T. -0.00 min

Lab File: VY003337.D

Acq: 24 Jul 2020 17:15

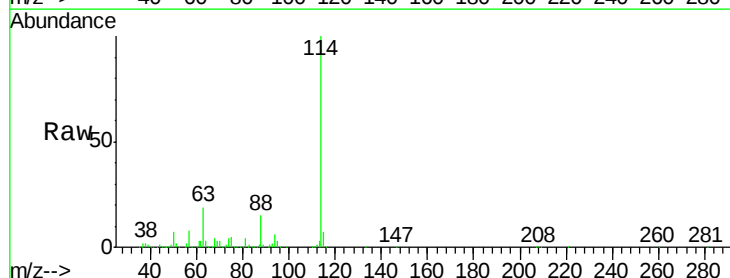
Tgt Ion: 114 Resp: 720779

Ion Ratio Lower Upper

114 100

63 18.7 0.0 41.2

88 14.6 0.0 30.2



Abundance Ion 113.90 (113.60 to 114.60): VY003337.D (-1092) (-)

Ion 63.00 (62.70 to 63.70): VY003337.D (-1092) (-)

Ion 87.90 (87.60 to 88.60): VY003337.D (-1092) (-)

8.69

500000

400000

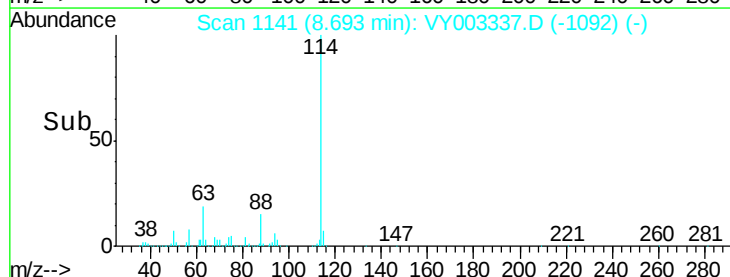
300000

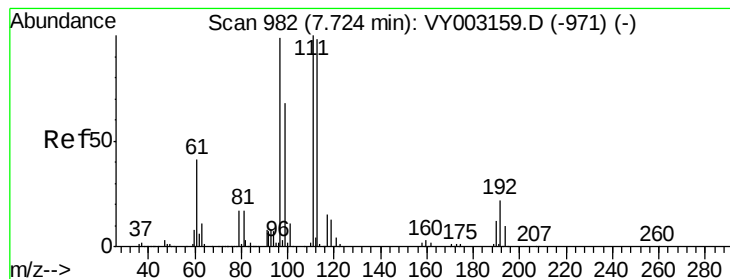
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 53.794 ug/l

RT: 7.72 min Scan# 982

Delta R.T. -0.00 min

Lab File: VY003337.D

Acq: 24 Jul 2020 17:15

Instrument :

MSVOA\_Y

ClientSampleId :

5

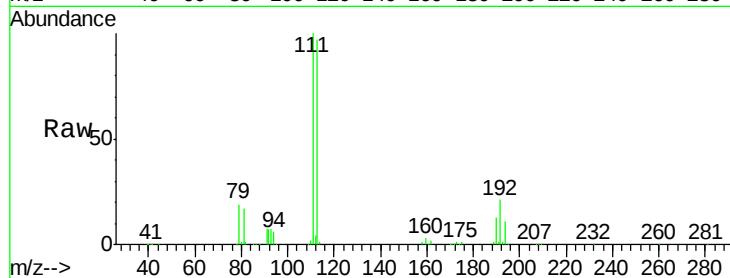
Tot Ion:113 Resp: 223132

Ion Ratio Lower Upper

113 100

111 103.2 82.1 123.1

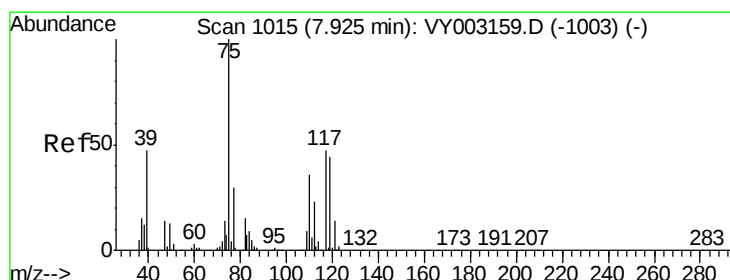
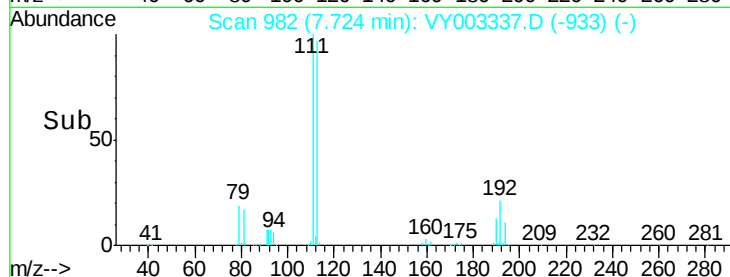
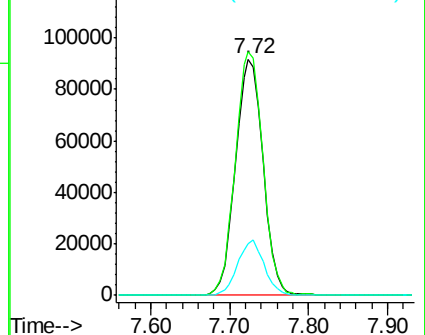
192 22.2 18.8 28.2



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: 4.782 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.13 min

Lab File: VY003337.D

Acq: 24 Jul 2020 17:15

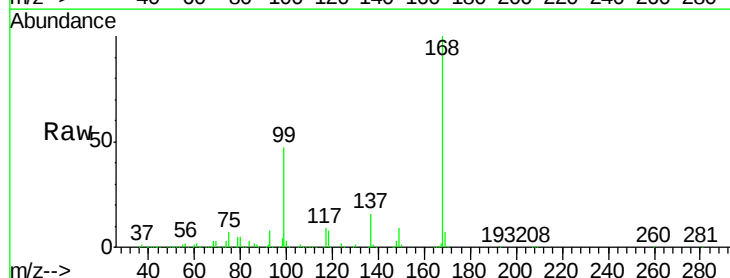
Tgt Ion: 75 Resp: 31240

Ion Ratio Lower Upper

75 100

110 9.5 18.1 54.1#

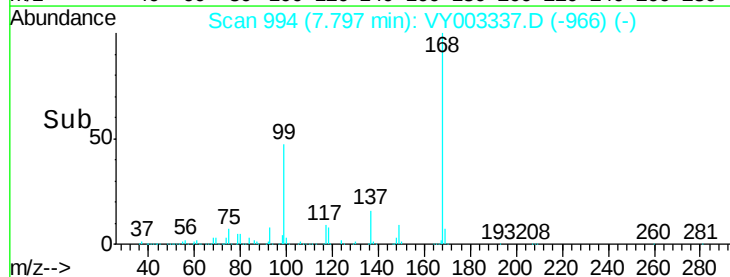
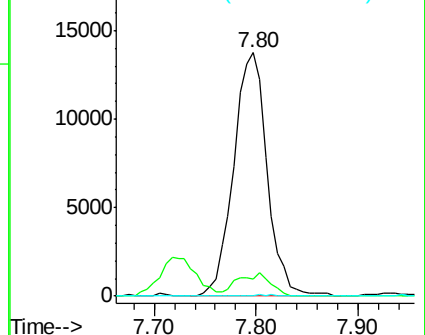
77 0.3 24.8 37.2#

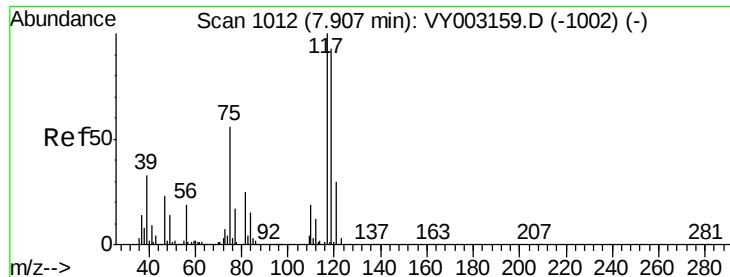


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VY0





#38

Carbon Tetrachloride

Concen: 6.260 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.11 min

Lab File: VY003337.D

Acq: 24 Jul 2020 17:15

Instrument :

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ClientSampleId :

5

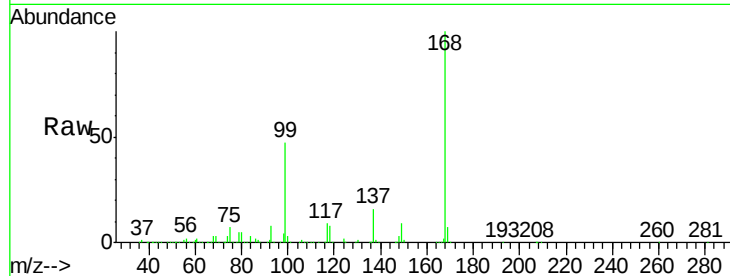
Tot Ion:117 Resp: 42219

Ion Ratio Lower Upper

117 100

119 3.3 74.5 111.7#

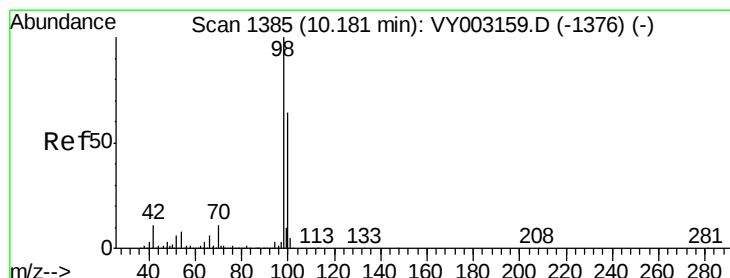
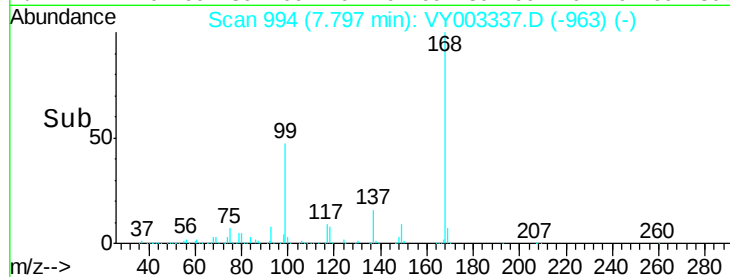
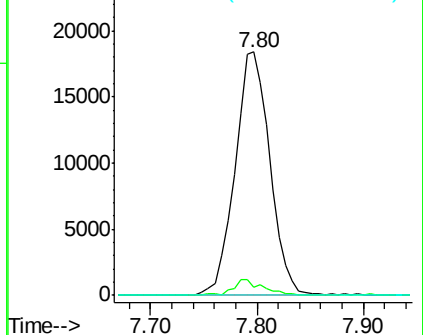
121 0.0 24.2 36.2#



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: 55.439 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VY003337.D

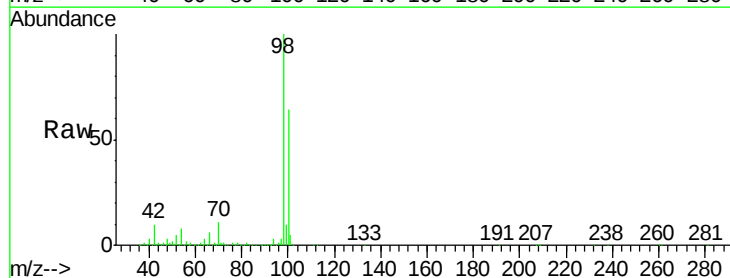
Acq: 24 Jul 2020 17:15

Tgt Ion: 98 Resp: 854940

Ion Ratio Lower Upper

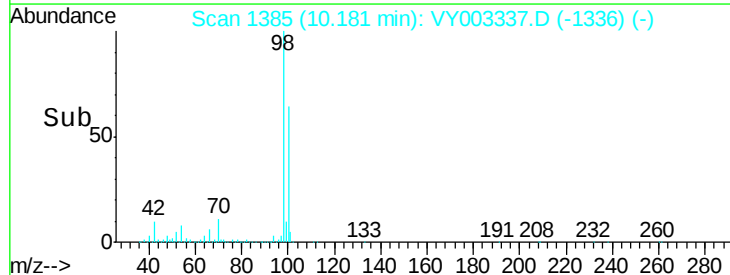
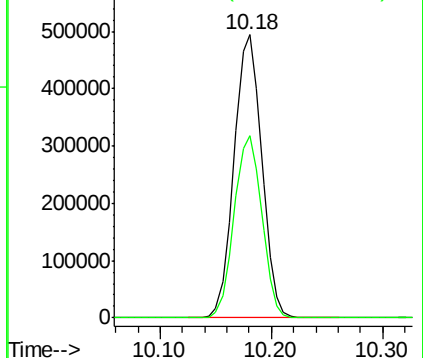
98 100

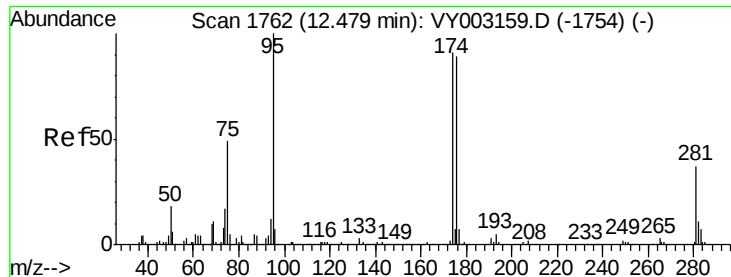
100 64.2 50.7 76.1



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY





#62

4-Bromofluorobenzene

Concen: 46.932 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.00 min

Lab File: VY003337.D

Acq: 24 Jul 2020 17:15

Instrument :

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ClientSampleId :

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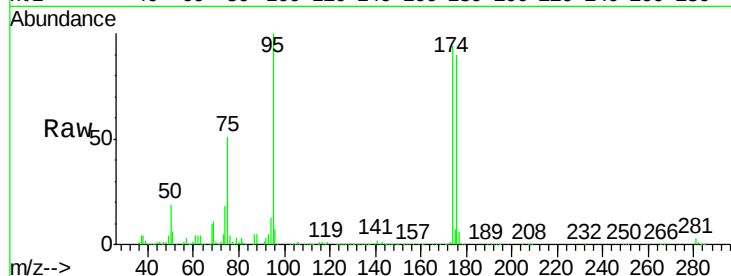
Tot Ion: 95 Resp: 261463

Ion Ratio Lower Upper

95 100

174 95.2 0.0 190.6

176 91.6 0.0 186.4



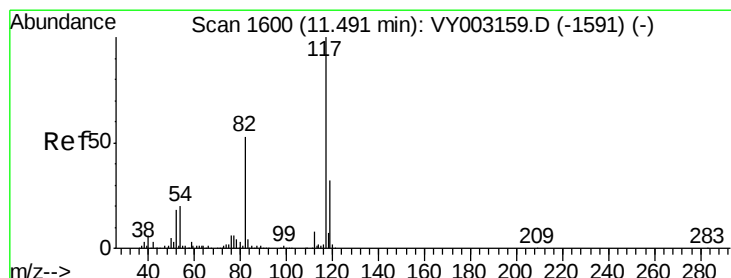
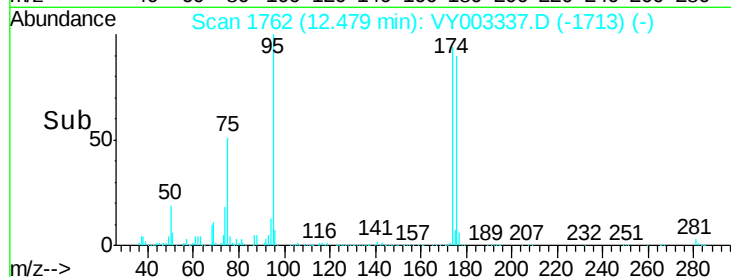
Abundance Ion 94.90 (94.60 to 95.60): VY003337.D (-1754) (-)

Ion 173.80 (173.50 to 174.50): VY003337.D (-1754) (-)

Ion 175.80 (175.50 to 176.50): VY003337.D (-1754) (-)

12.48

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.49 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VY003337.D

Acq: 24 Jul 2020 17:15

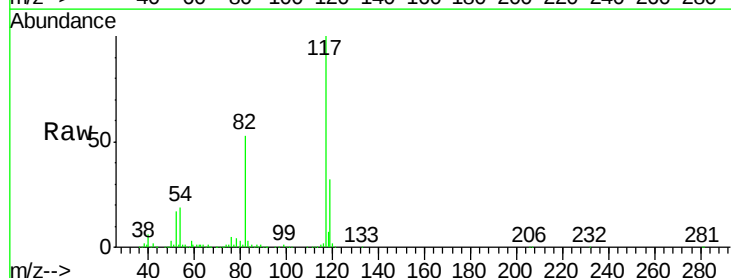
Tgt Ion: 117 Resp: 634372

Ion Ratio Lower Upper

117 100

82 52.9 42.0 63.0

119 31.7 25.5 38.3



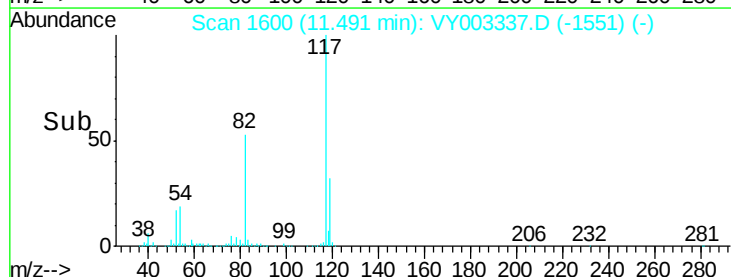
Abundance Ion 116.90 (116.60 to 117.60): VY003337.D (-1591) (-)

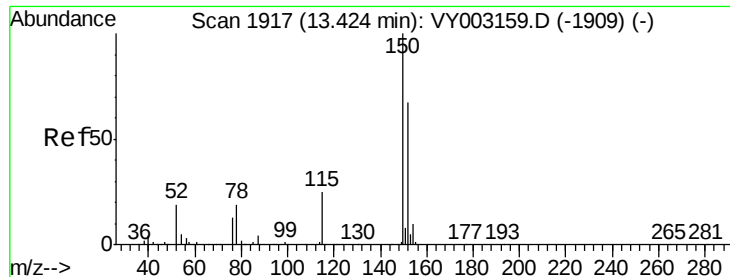
Ion 82.00 (81.70 to 82.70): VY003337.D (-1591) (-)

Ion 118.90 (118.60 to 119.60): VY003337.D (-1591) (-)

11.49

Time-->



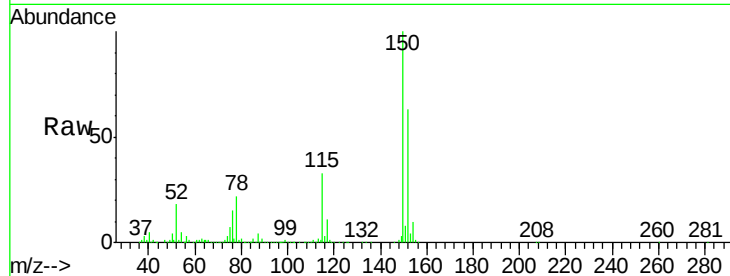


#72

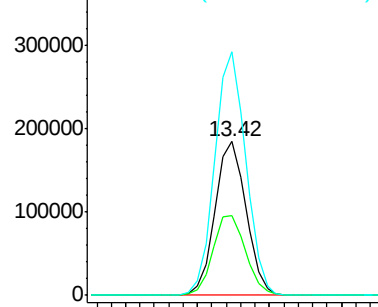
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1917  
Delta R.T. -0.00 min  
Lab File: VY003337.D  
Acq: 24 Jul 2020 17:15

Instrument :  
MSVOA\_Y  
ClientSampleId :  
5

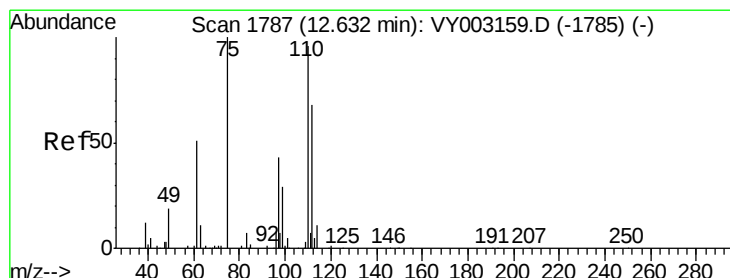
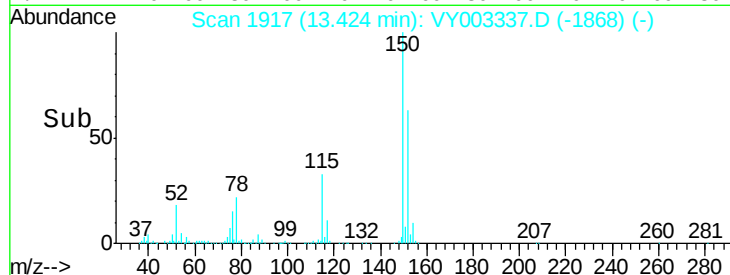
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 54.5  | 26.9  | 80.7  |
| 150     | 158.0 | 0.0   | 338.0 |



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



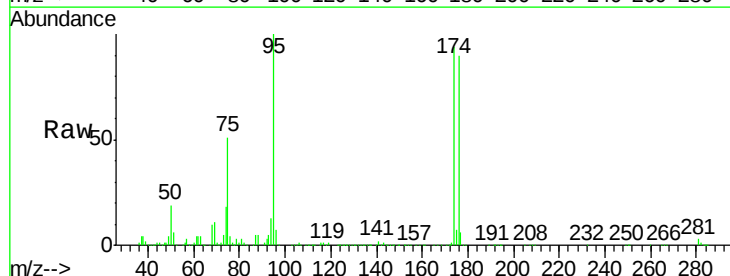
Time-->



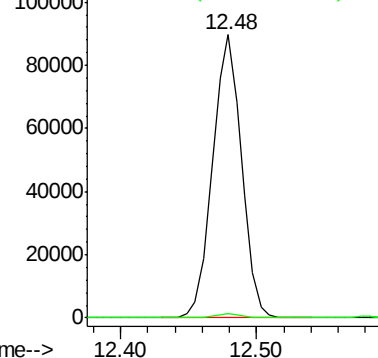
#76

1,2,3-Trichloropropane  
Concen: 54.271 ug/l  
RT: 12.48 min Scan# 1762  
Delta R.T. -0.15 min  
Lab File: VY003337.D  
Acq: 24 Jul 2020 17:15

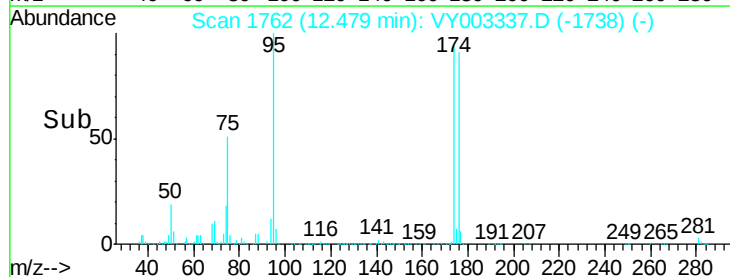
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 1.5   | 0.0   | 0.0   |

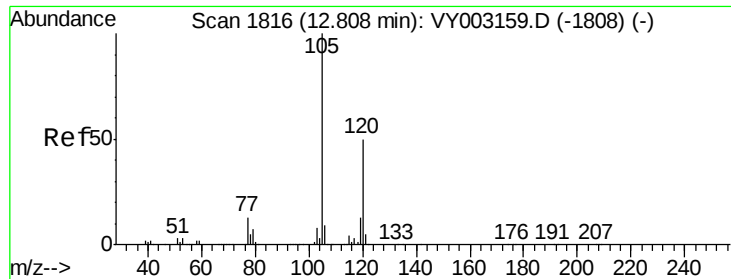


Abundance Ion 74.90 (74.60 to 75.60): VY0  
Ion 77.00 (76.70 to 77.70): VY0



Time-->





#80

1,3,5-Trimethylbenzene

Concen: 1.441 ug/l

RT: 12.81 min Scan# 1816

Delta R.T. -0.00 min

Lab File: VY003337.D

Acq: 24 Jul 2020 17:15

Instrument :

MSVOA\_Y

ClientSampleId :

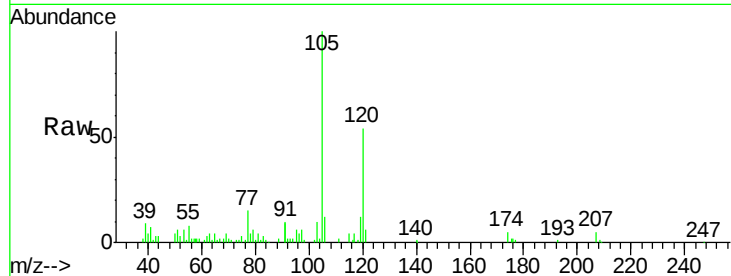
5

Tot Ion:105 Resp: 21137

Ion Ratio Lower Upper

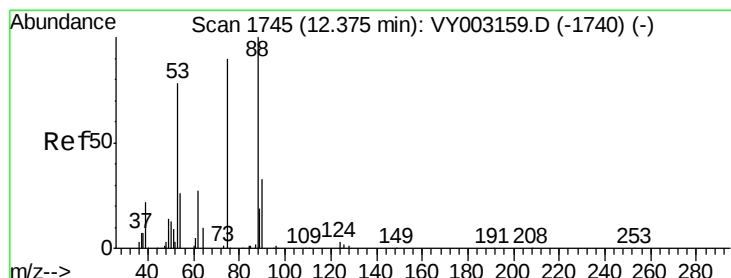
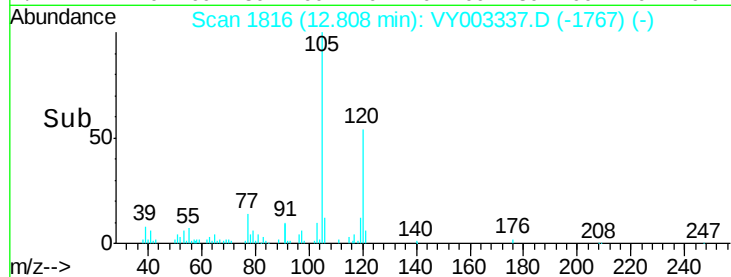
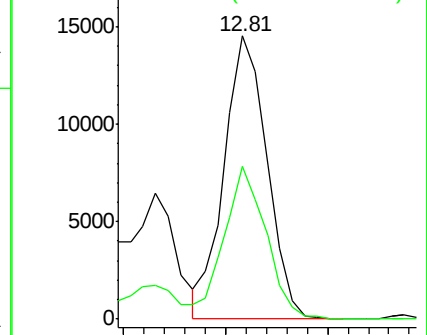
105 100

120 53.9 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 105.622 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY003337.D

Acq: 24 Jul 2020 17:15

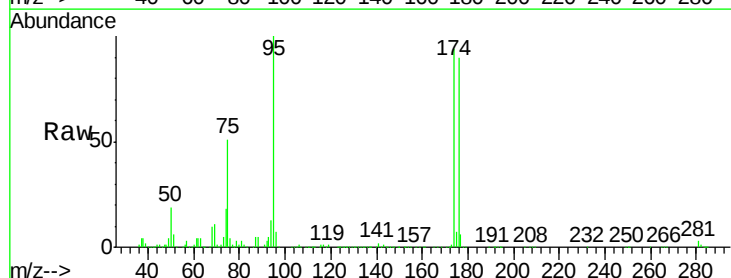
Tgt Ion: 75 Resp: 132676

Ion Ratio Lower Upper

75 100

53 0.1 72.0 108.0#

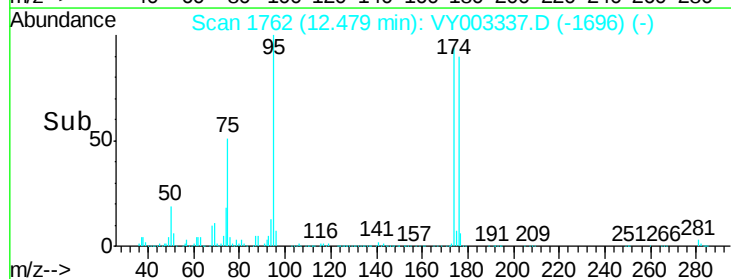
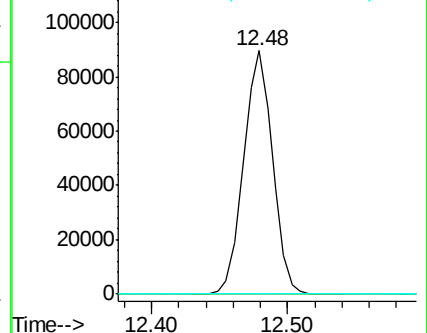
89 0.1 37.3 55.9#

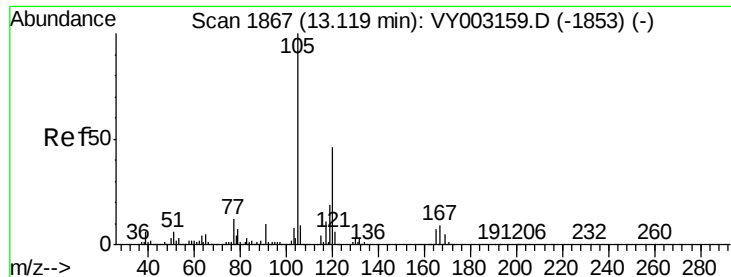


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0





#84

1,2,4-Trimethylbenzene

Concen: 1.398 ug/l

RT: 13.12 min Scan# 1867

Delta R.T. -0.00 min

Lab File: VY003337.D

Acq: 24 Jul 2020 17:15

Instrument :

MSVOA\_Y

ClientSampleId :

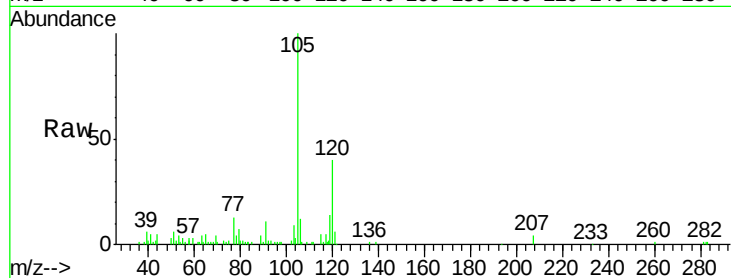
5

Tot Ion:105 Resp: 20634

Ion Ratio Lower Upper

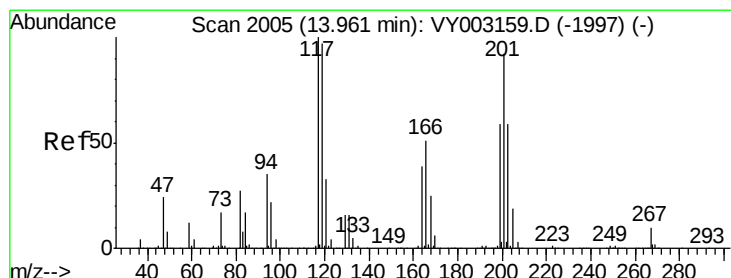
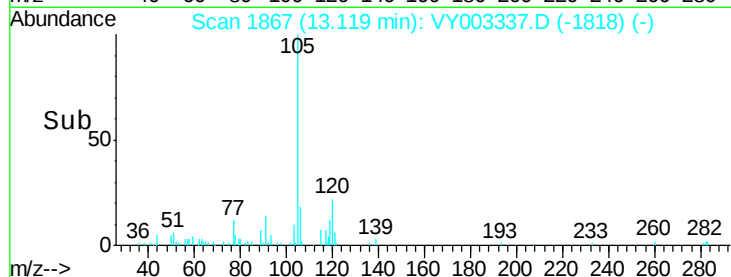
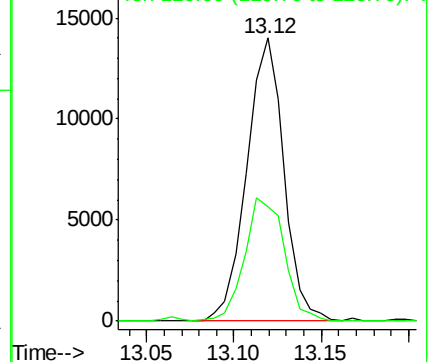
105 100

120 46.6 22.5 67.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#90

Hexachloroethane

Concen: 1.334 ug/l

RT: 13.97 min Scan# 2007

Delta R.T. 0.01 min

Lab File: VY003337.D

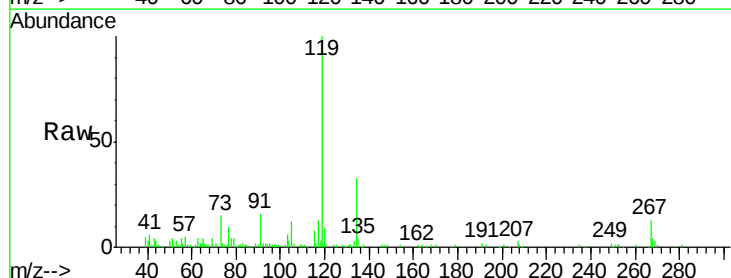
Acq: 24 Jul 2020 17:15

Tgt Ion:117 Resp: 4036

Ion Ratio Lower Upper

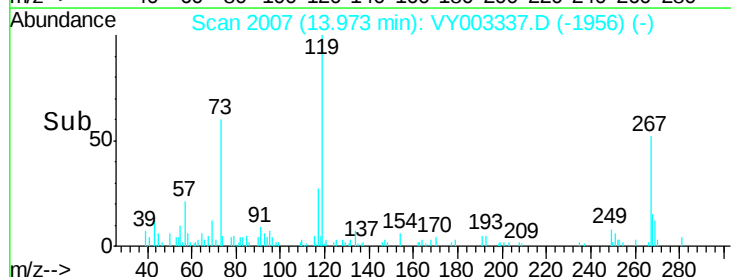
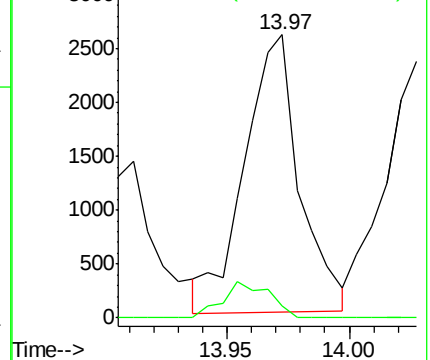
117 100

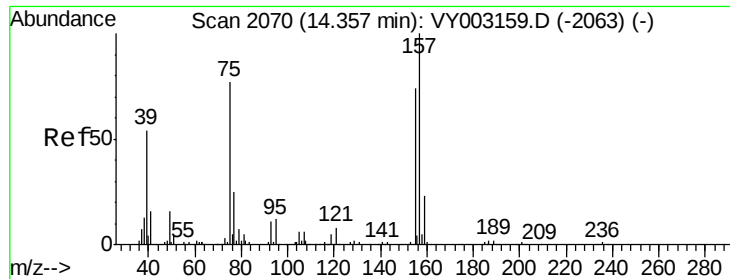
201 10.9 45.1 135.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

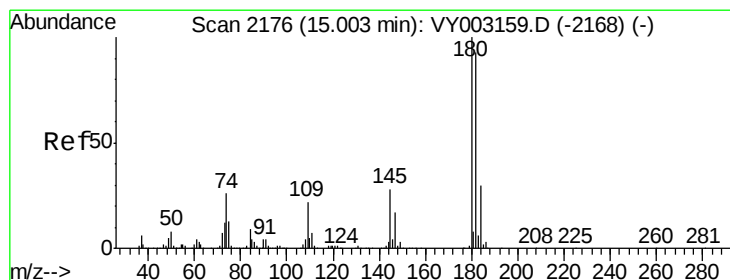
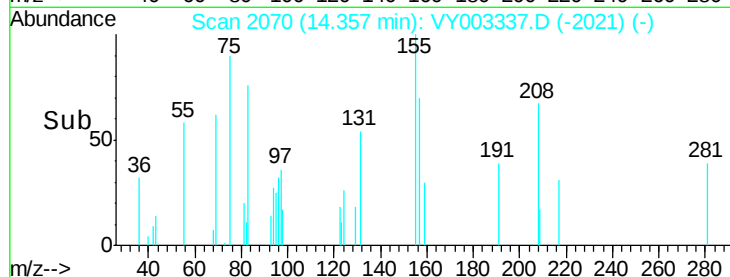
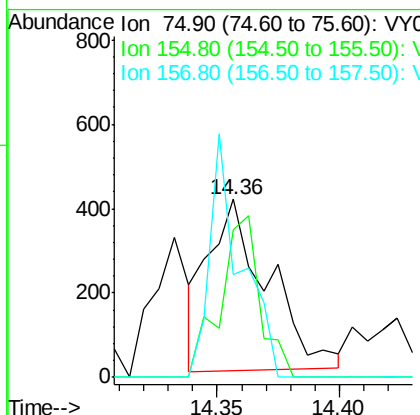
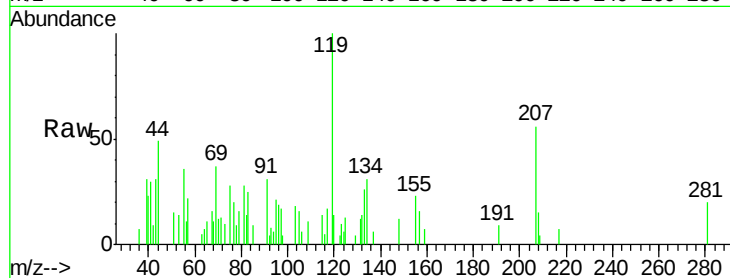




#92  
 1,2-Dibromo-3-Chloropropane  
 Concen: 1.252 ug/l  
 RT: 14.36 min Scan# 2070  
 Delta R.T. -0.00 min  
 Lab File: VY003337.D  
 Acq: 24 Jul 2020 17:15

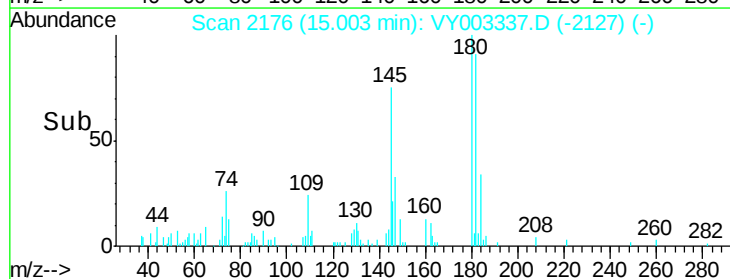
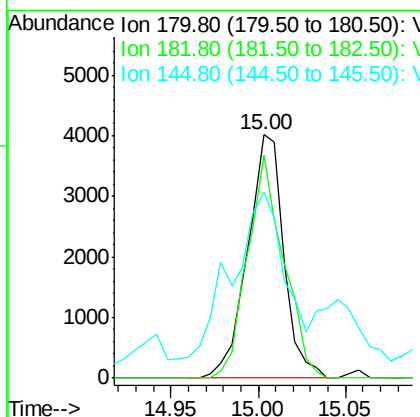
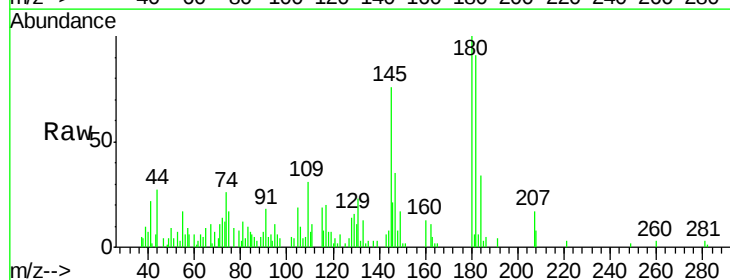
Instrument :  
 MSVOA\_Y  
 ClientSampled :  
 5

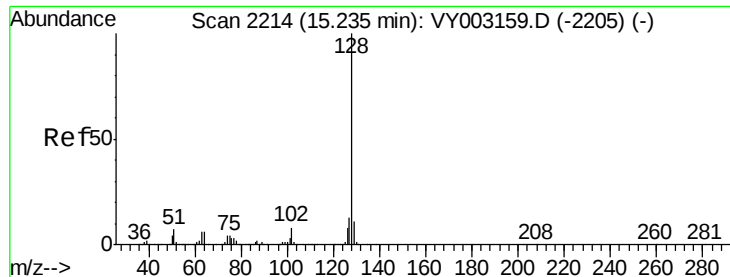
Tot Ion: 75 Resp: 690  
 Ion Ratio Lower Upper  
 75 100  
 155 62.2 48.1 144.3  
 157 74.1 61.9 185.6



#93  
 1,2,4-Trichlorobenzene  
 Concen: 1.098 ug/l  
 RT: 15.00 min Scan# 2176  
 Delta R.T. -0.00 min  
 Lab File: VY003337.D  
 Acq: 24 Jul 2020 17:15

Tgt Ion: 180 Resp: 5817  
 Ion Ratio Lower Upper  
 180 100  
 182 91.4 47.3 142.0  
 145 118.3 13.7 41.1#

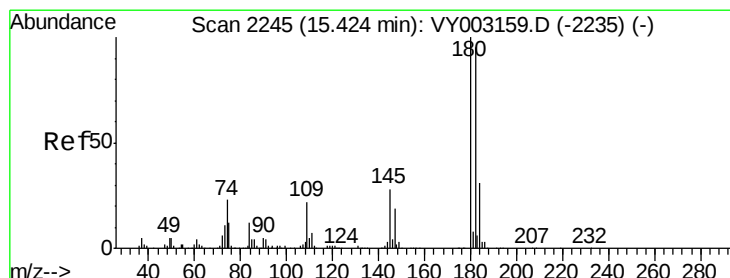
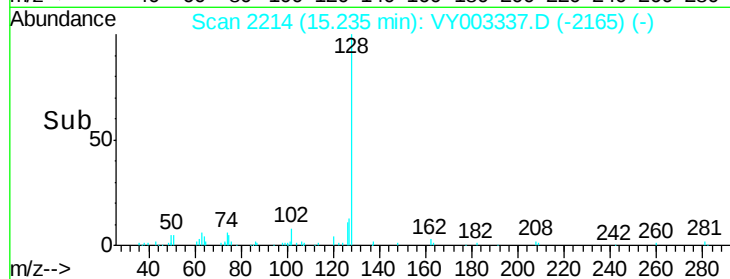
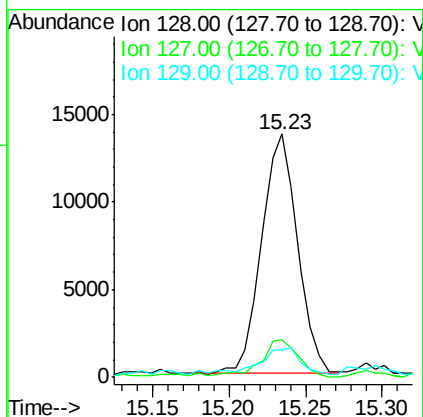
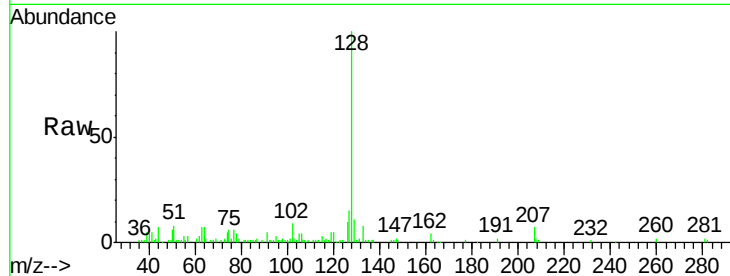




#95  
Naphthalene  
Concen: 2.560 ug/l  
RT: 15.23 min Scan# 2214  
Delta R.T. -0.00 min  
Lab File: VY003337.D  
Acq: 24 Jul 2020 17:15

Instrument :  
MSVOA\_Y  
ClientSampleId :  
5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 16.6  | 10.9  | 16.3# |
| 129     | 13.9  | 9.0   | 13.6# |



#96  
1,2,3-Trichlorobenzene  
Concen: 1.616 ug/l  
RT: 15.42 min Scan# 2245  
Delta R.T. -0.00 min  
Lab File: VY003337.D  
Acq: 24 Jul 2020 17:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 97.0  | 48.8  | 146.3 |
| 145     | 122.1 | 14.9  | 44.5# |

