

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY052020\  
 Data File : VY002723.D  
 Acq On : 20 May 2020 12:00  
 Operator : SY/MD  
 Sample : L2497-05  
 Misc : 7.19G/5ML/MSVOA Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: May 21 02:43:29 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y051520S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat May 16 04:52:36 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 347031   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 544221   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 466932   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 202350   | 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   | 149285   | 55.00 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 110.00% |          |
| 35) Dibromofluoromethane    | 7.72  | 113  | 161181   | 53.67 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.34% |          |
| 50) Toluene-d8              | 10.18 | 98   | 620195   | 51.29 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.58% |          |
| 62) 4-Bromofluorobenzene    | 12.48 | 95   | 189623   | 45.63 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 91.26%  |          |

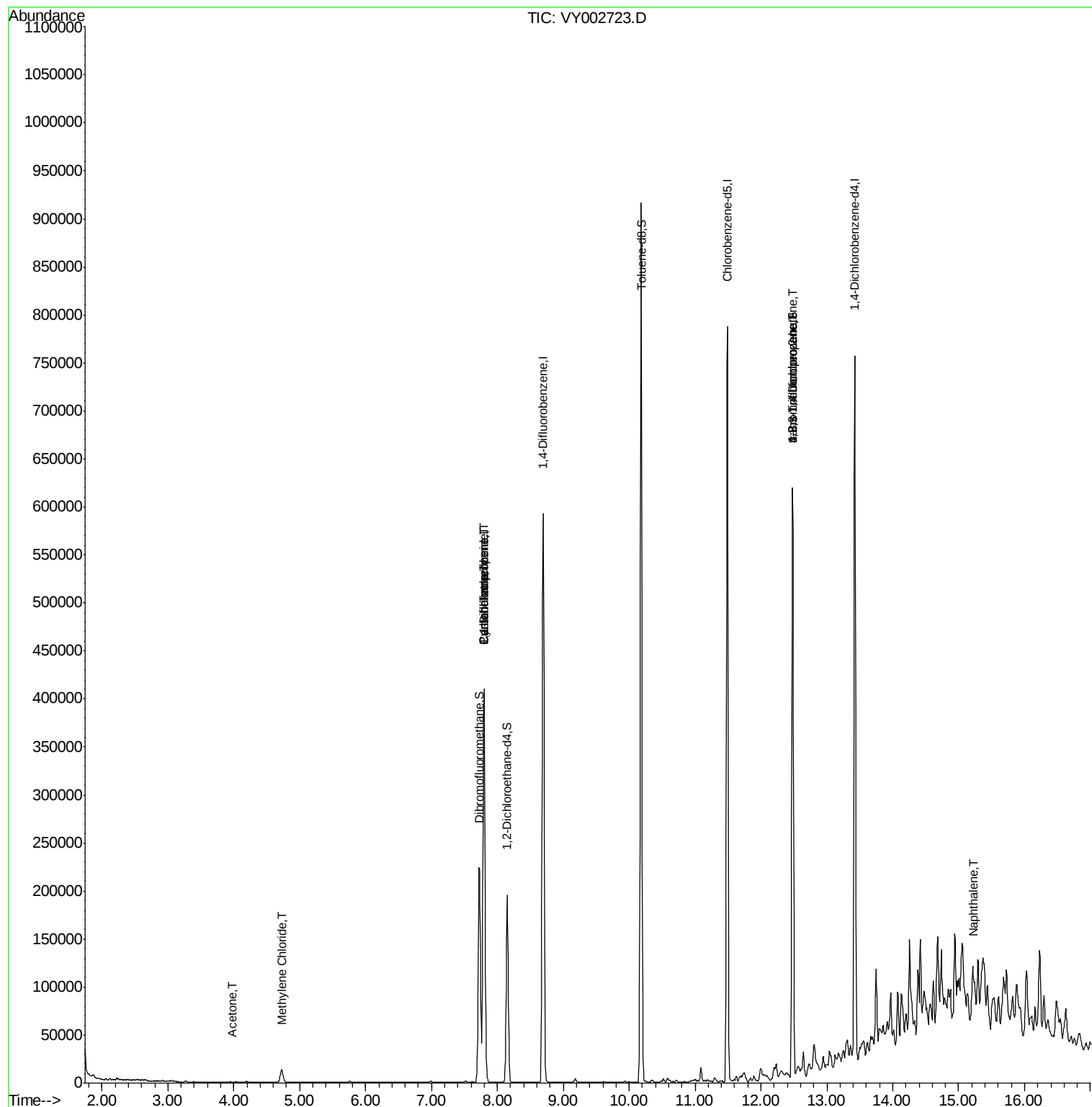
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 16) Acetone                    | 3.97  | 43   | 1077     | 1.925     | ug/l # | 39     |
| 20) Methylene Chloride         | 4.72  | 84   | 10565    | 3.123     | ug/l   | 97     |
| 31) Cyclohexane                | 7.79  | 56   | 5563     | 1.059     | ug/l # | 2      |
| 36) 1,1-Dichloropropene        | 7.80  | 75   | 21190    | 4.599     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.80  | 117  | 30671    | 6.194     | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75   | 89700    | 53.963    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75   | 89700    | 102.056   | ug/l # | 8      |
| 93) 1,2,4-Trichlorobenzene     | 15.00 | 180  | 2768     | Below Cal | #      | 1      |
| 94) Hexachlorobutadiene        | 15.11 | 225  | 884      | Below Cal |        | 97     |
| 95) Naphthalene                | 15.23 | 128  | 18688    | 2.374     | ug/l # | 86     |
| 96) 1,2,3-Trichlorobenzene     | 15.42 | 180  | 5510     | Below Cal | #      | 74     |

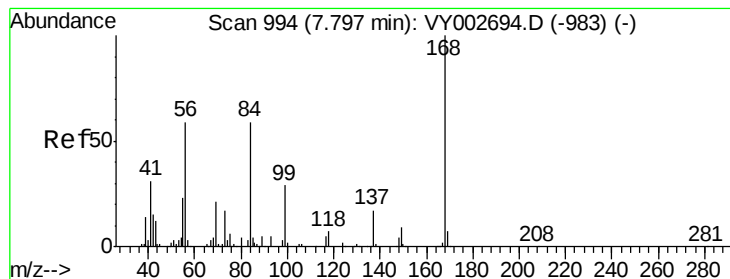
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY052020\  
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MSVOA\_Y  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y051520S.M  
Quant Title : SW846 8260  
QLast Update : Sat May 16 04:52:36 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: VY002723.D

Acq: 20 May 2020 12:00

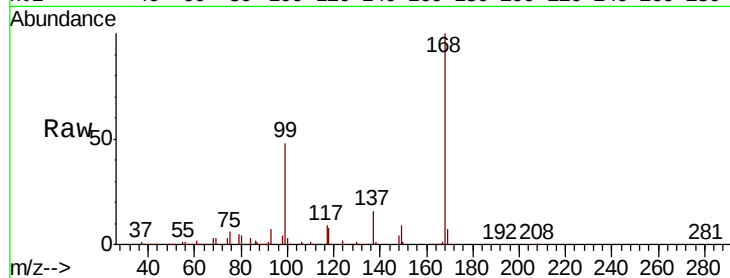
Instrument :  
MSVOA\_Y  
ClientSampled :

Tot Ion:168 Resp: 347031

Ion Ratio Lower Upper

168 100

99 47.8 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): VY002723.D (-945) (-)

Ion 98.90 (98.60 to 99.60): VY002723.D (-945) (-)

7.80

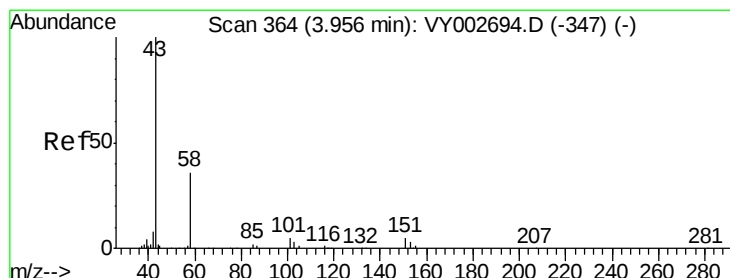
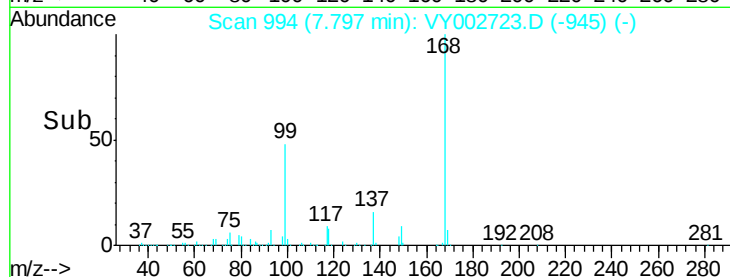
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 1.925 ug/l

RT: 3.97 min Scan# 367

Delta R.T. 0.02 min

Lab File: VY002723.D

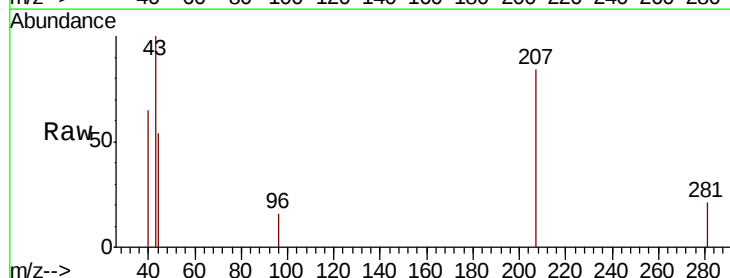
Acq: 20 May 2020 12:00

Tgt Ion: 43 Resp: 1077

Ion Ratio Lower Upper

43 100

58 0.0 28.6 43.0#



Abundance Ion 43.00 (42.70 to 43.70): VY002723.D (-315) (-)

Ion 58.00 (57.70 to 58.70): VY002723.D (-315) (-)

3.97

400

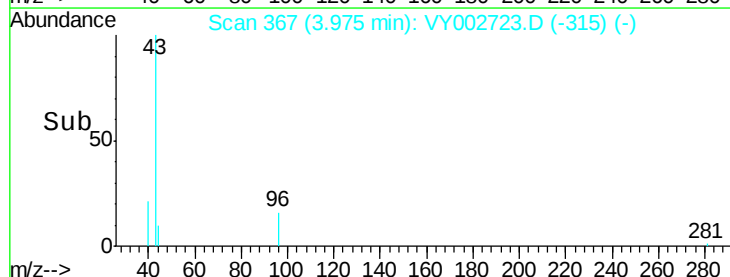
300

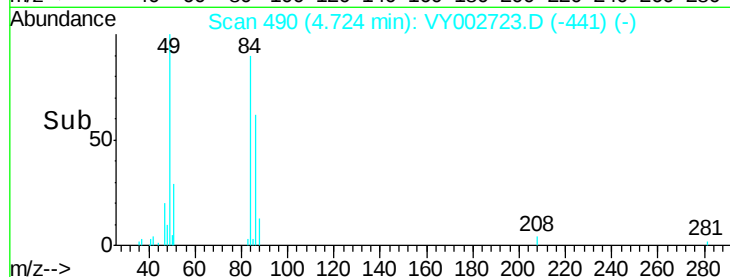
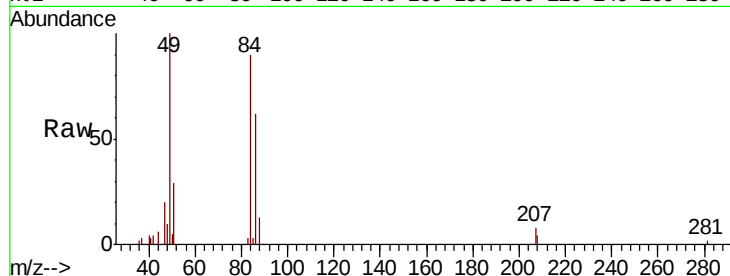
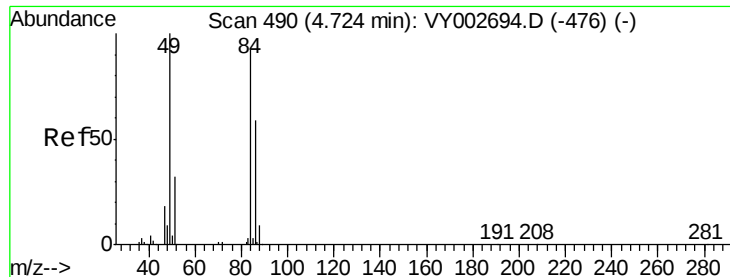
200

100

0

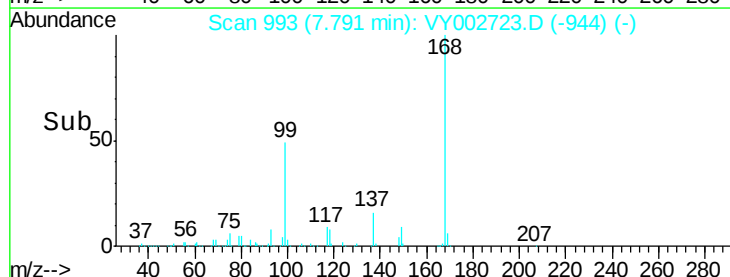
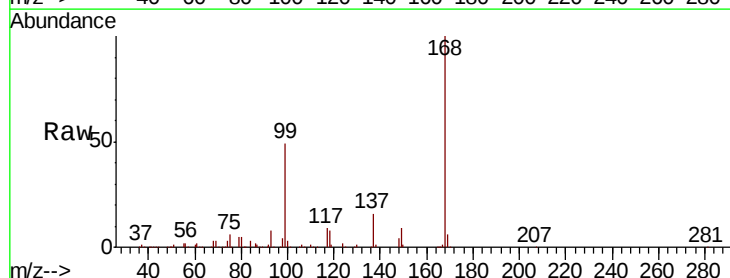
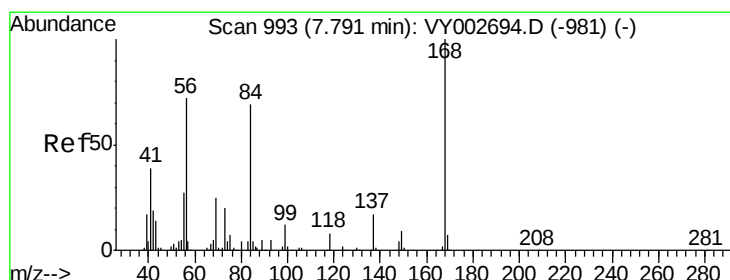
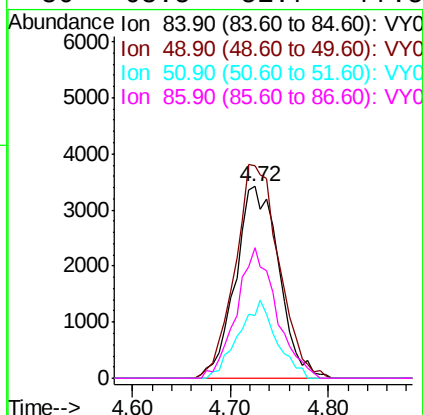
Time-->





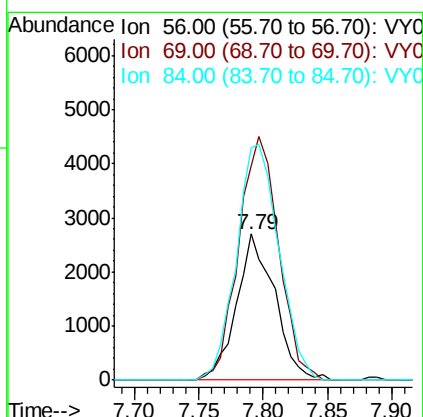
#20  
Methvlene Chloride  
Concen: 3.123 ug/l  
RT: 4.72 min Scan# 490  
Delta R.T. 0.00 min  
Lab File: VY002723.D  
Acq: 20 May 2020 12:00

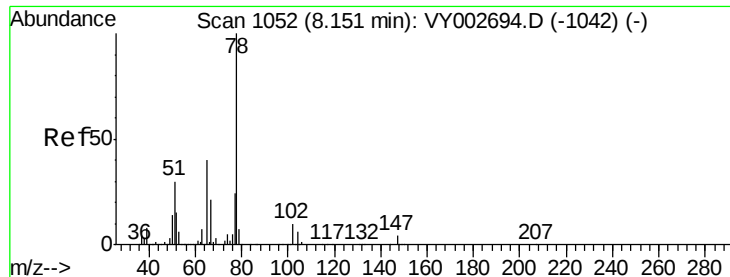
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 10565 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 110.8 | 87.4  | 131.0 |
| 51       | 32.6  | 27.9  | 41.9  |
| 86       | 68.5  | 51.7  | 77.5  |



#31  
Cyclohexane  
Concen: 1.059 ug/l  
RT: 7.79 min Scan# 993  
Delta R.T. 0.00 min  
Lab File: VY002723.D  
Acq: 20 May 2020 12:00

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 5563   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 146.7 | 27.7  | 41.5#  |
| 84       | 158.6 | 77.0  | 115.4# |





#33

1,2-Dichloroethane-d4

Concen: 54.995 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VY002723.D

Acq: 20 May 2020 12:00

Instrument :

MSVOA\_Y

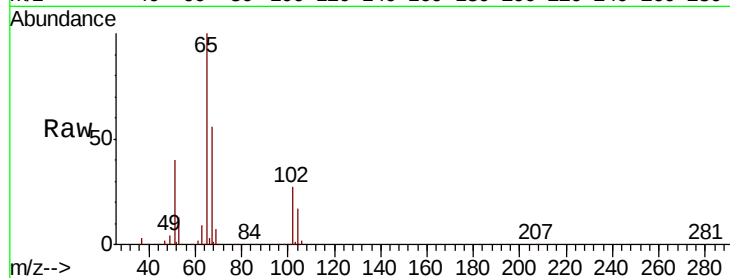
ClientSampleId :

Tot Ion: 65 Resp: 149285

Ion Ratio Lower Upper

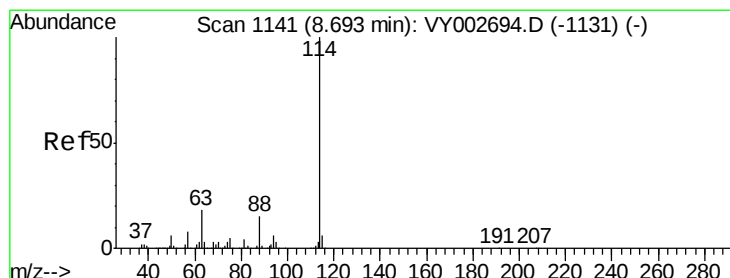
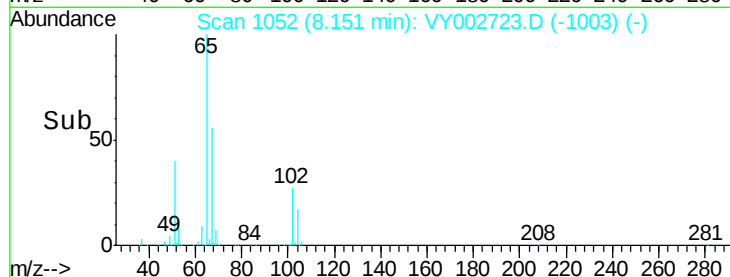
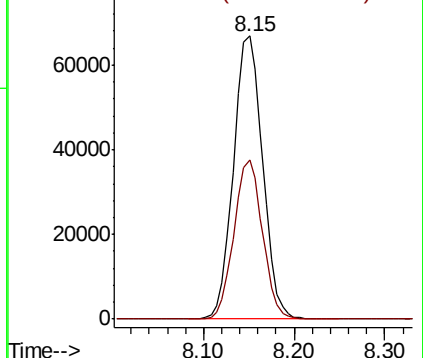
65 100

67 54.8 0.0 109.0



Abundance Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.69 min Scan# 1141

Delta R.T. 0.00 min

Lab File: VY002723.D

Acq: 20 May 2020 12:00

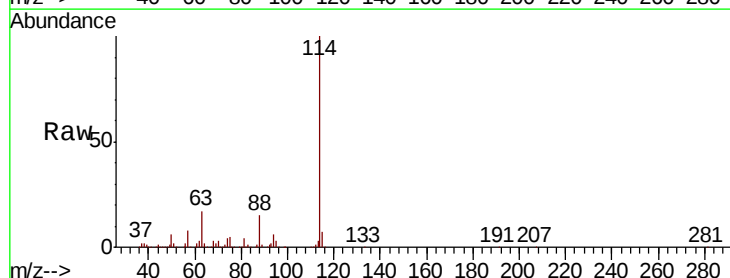
Tgt Ion: 114 Resp: 544221

Ion Ratio Lower Upper

114 100

63 17.5 0.0 35.4

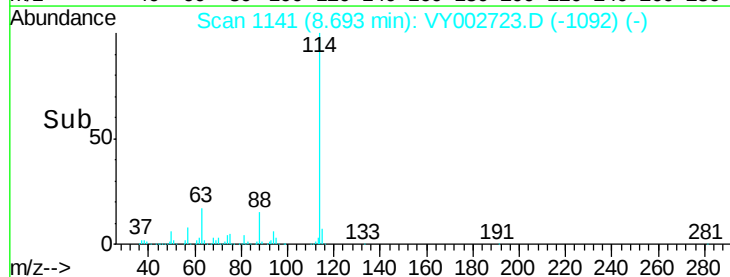
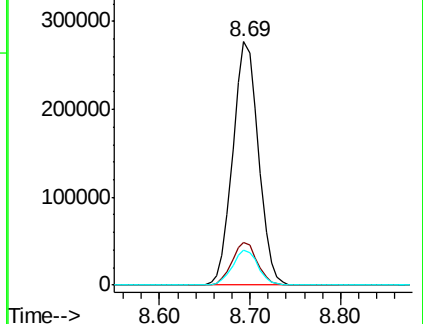
88 14.6 0.0 29.4

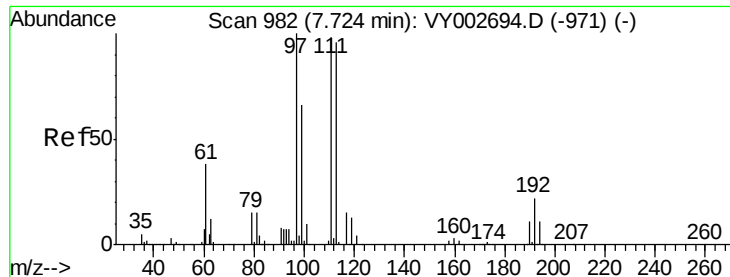


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0

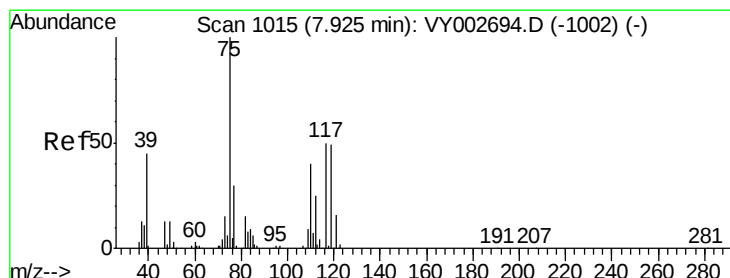
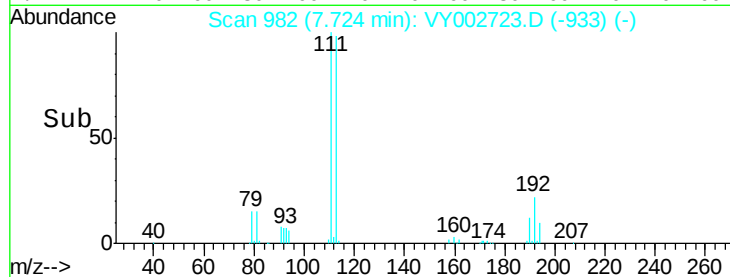
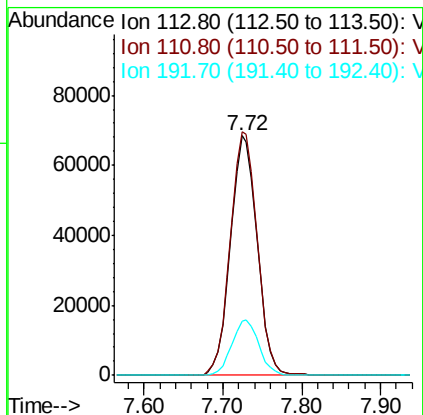
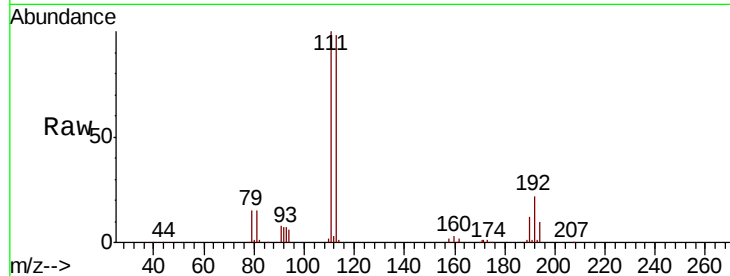




#35  
 Dibromofluoromethane  
 Concen: 53.666 ug/l  
 RT: 7.72 min Scan# 982  
 Delta R.T. 0.00 min  
 Lab File: VY002723.D  
 Acq: 20 May 2020 12:00

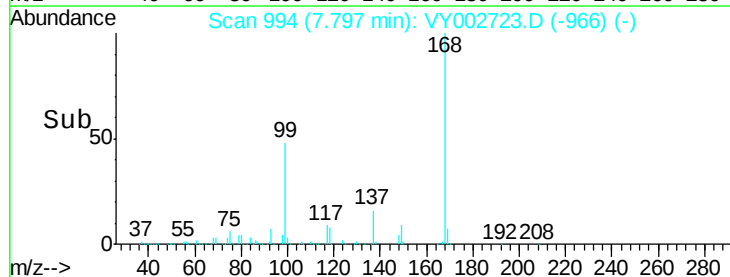
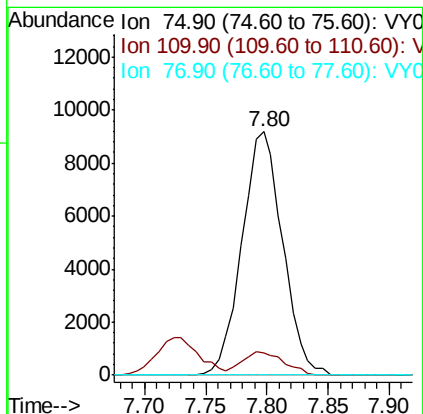
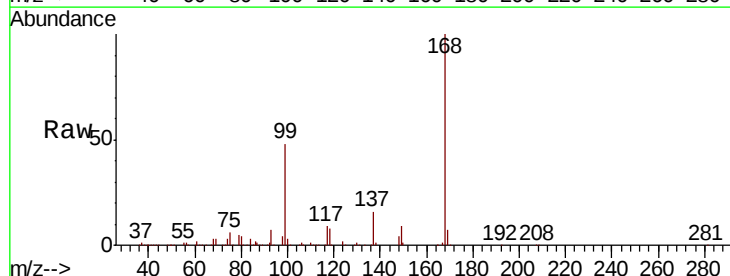
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

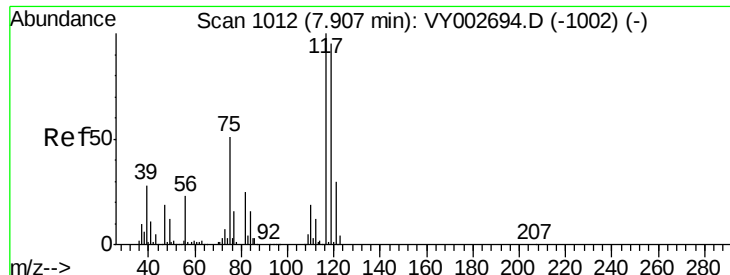
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.6 | 81.9  | 122.9 |
| 192     | 23.3  | 18.6  | 27.8  |



#36  
 1,1-Dichloropropene  
 Concen: 4.599 ug/l  
 RT: 7.80 min Scan# 994  
 Delta R.T. -0.13 min  
 Lab File: VY002723.D  
 Acq: 20 May 2020 12:00

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.7   | 19.4  | 58.4# |
| 77      | 0.0   | 25.0  | 37.4# |





#38

Carbon Tetrachloride

Concen: 6.194 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.11 min

Lab File: VY002723.D

Acq: 20 May 2020 12:00

Instrument :

MSVOA\_Y

ClientSampleId :

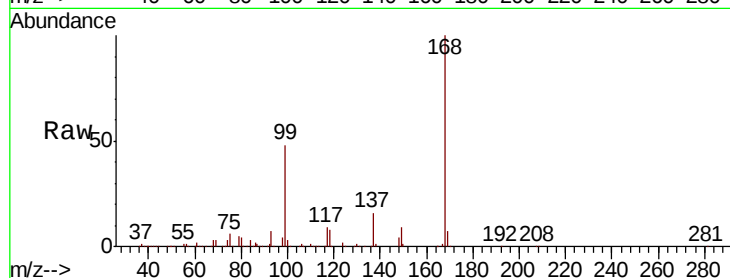
Tot Ion:117 Resp: 30671

Ion Ratio Lower Upper

117 100

119 5.0 76.3 114.5#

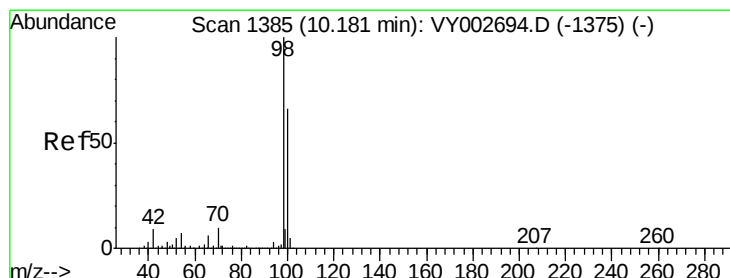
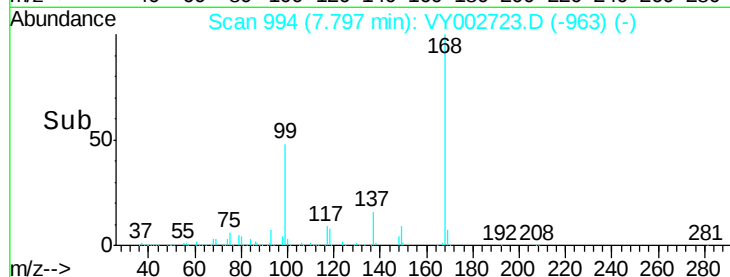
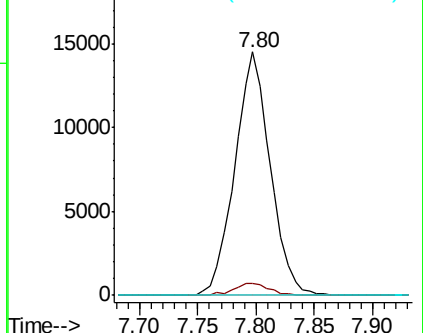
121 0.0 24.2 36.2#



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: 51.289 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VY002723.D

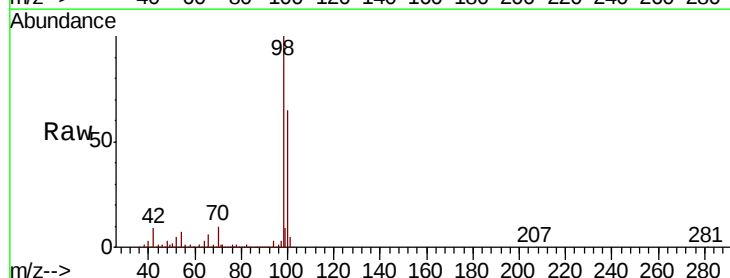
Acq: 20 May 2020 12:00

Tgt Ion: 98 Resp: 620195

Ion Ratio Lower Upper

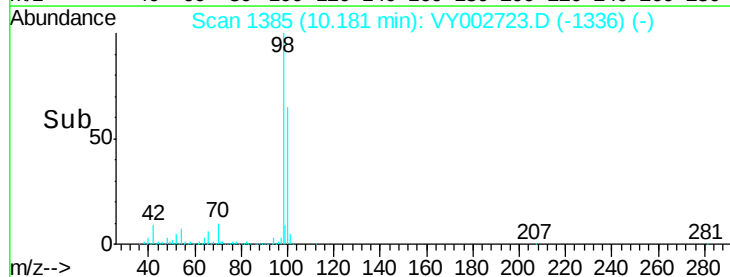
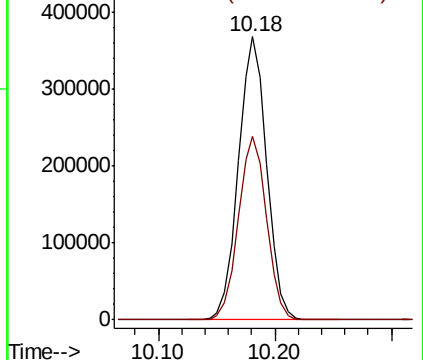
98 100

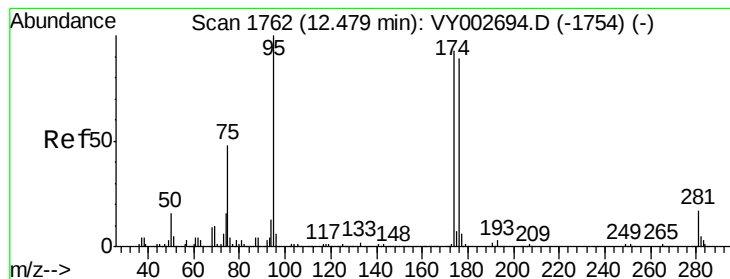
100 64.7 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY





#62

4-Bromofluorobenzene

Concen: 45.625 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.00 min

Lab File: VY002723.D

Acq: 20 May 2020 12:00

Instrument :

MSVOA\_Y

ClientSampleId :

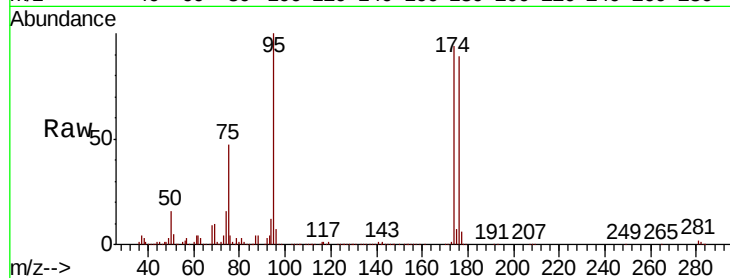
Tot Ion: 95 Resp: 189623

Ion Ratio Lower Upper

95 100

174 94.8 0.0 191.4

176 91.7 0.0 186.0



Abundance Ion 94.90 (94.60 to 95.60): VY002723.D (-1754) (-)

Ion 173.80 (173.50 to 174.50): VY002723.D (-1754) (-)

Ion 175.80 (175.50 to 176.50): VY002723.D (-1754) (-)

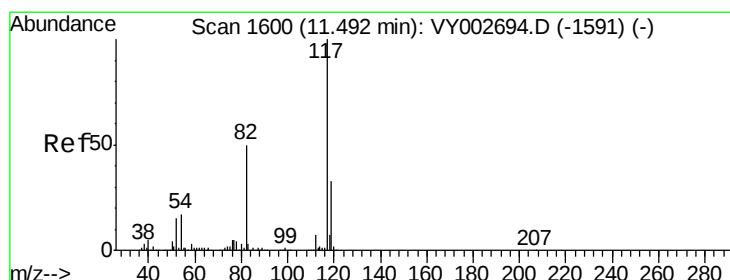
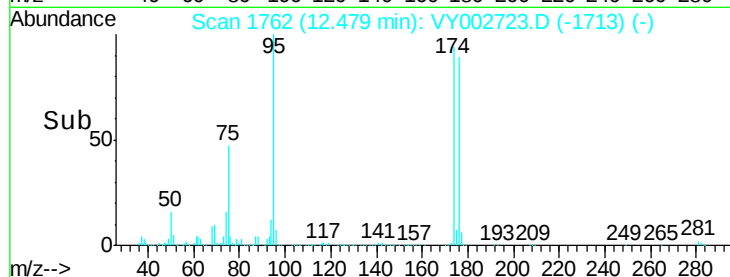
12.48

100000

50000

0

Time--> 12.40 12.45 12.50 12.55



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.49 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VY002723.D

Acq: 20 May 2020 12:00

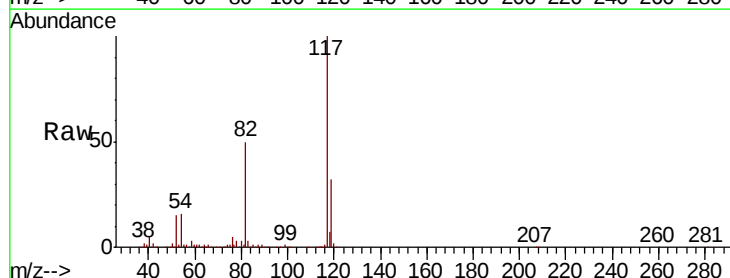
Tgt Ion: 117 Resp: 466932

Ion Ratio Lower Upper

117 100

82 49.7 40.3 60.5

119 32.1 26.2 39.4



Abundance Ion 116.90 (116.60 to 117.60): VY002723.D (-1591) (-)

Ion 82.00 (81.70 to 82.70): VY002723.D (-1591) (-)

Ion 118.90 (118.60 to 119.60): VY002723.D (-1591) (-)

11.49

400000

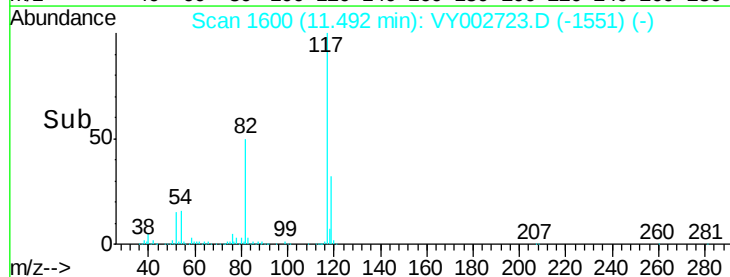
300000

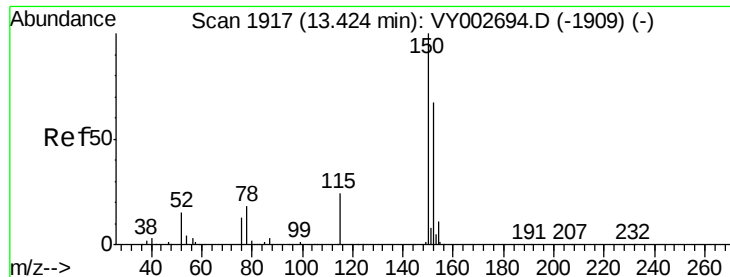
200000

100000

0

Time--> 11.40 11.50 11.60





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.42 min Scan# 1917

Delta R.T. 0.00 min

Lab File: VY002723.D

Acq: 20 May 2020 12:00

Instrument :

MSVOA\_Y

ClientSampled :

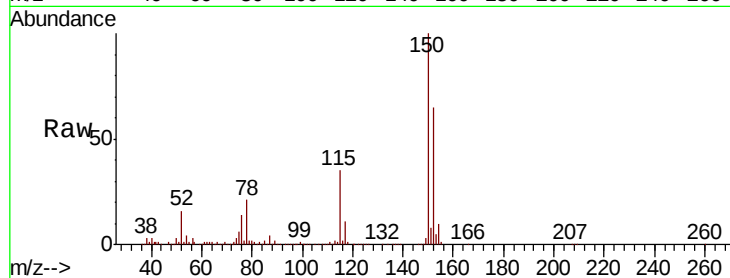
Tot Ion:152 Resp: 202350

Ion Ratio Lower Upper

152 100

115 54.2 27.2 81.6

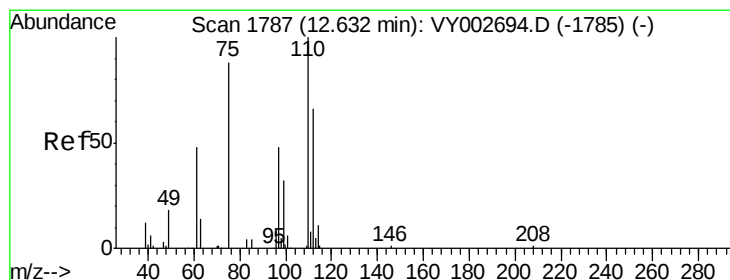
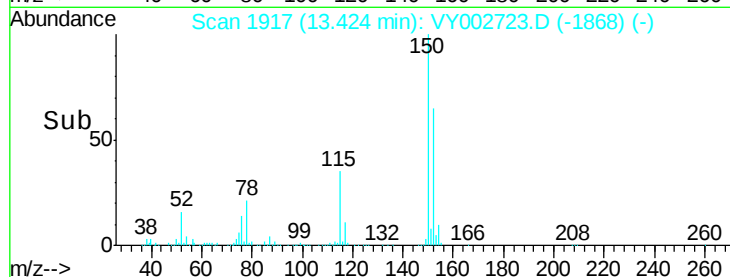
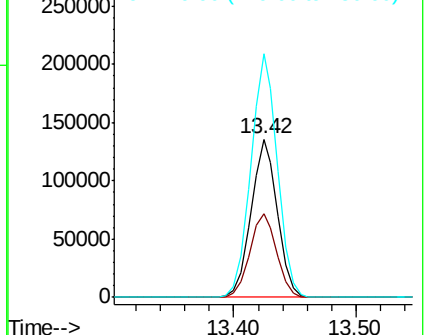
150 155.8 0.0 343.8



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



#76

1,2,3-Trichloropropane

Concen: 53.963 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY002723.D

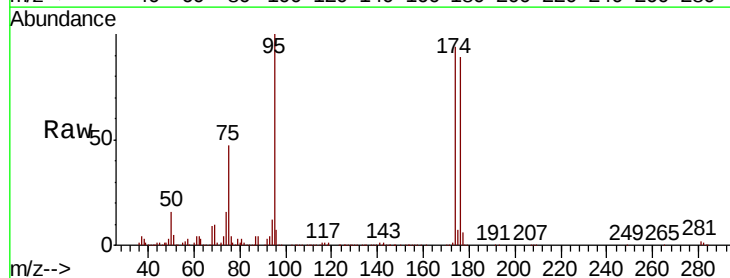
Acq: 20 May 2020 12:00

Tgt Ion: 75 Resp: 89700

Ion Ratio Lower Upper

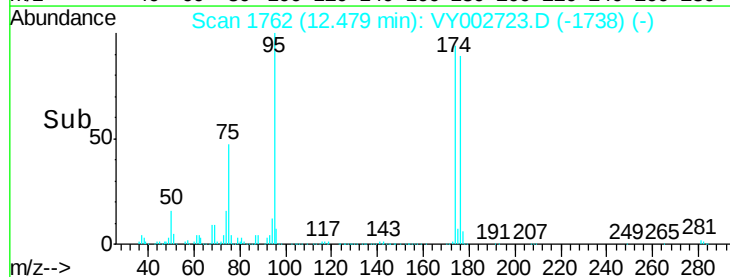
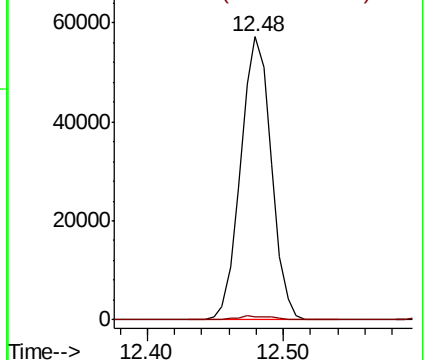
75 100

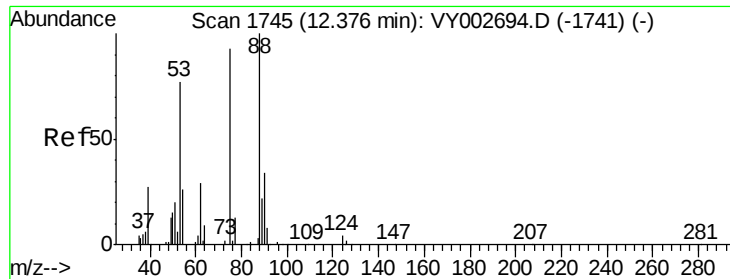
77 1.8 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0





#81

trans-1,4-Dichloro-2-butene

Concen: 102.056 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY002723.D

Acq: 20 May 2020 12:00

Instrument :

MSVOA\_Y

ClientSampleId :

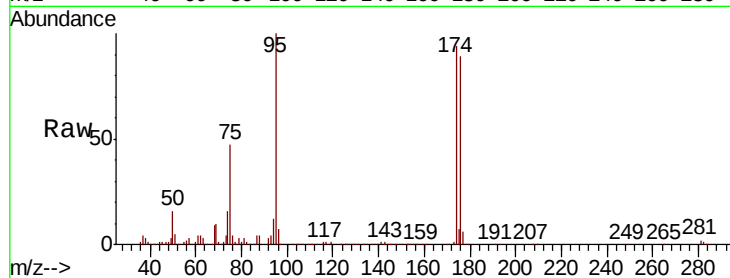
Tot Ion: 75 Resp: 89700

Ion Ratio Lower Upper

75 100

53 0.4 65.0 97.6#

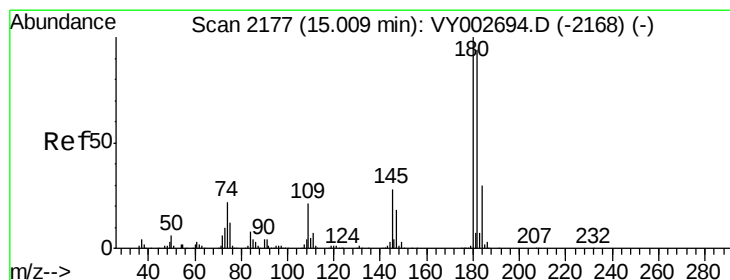
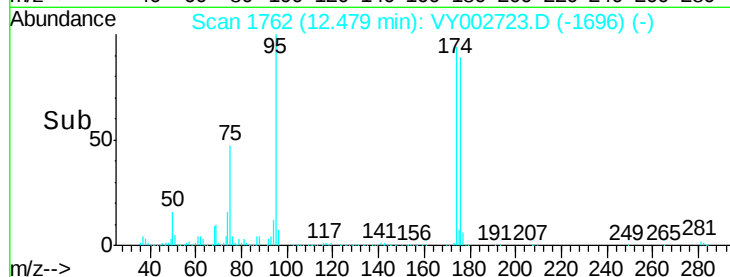
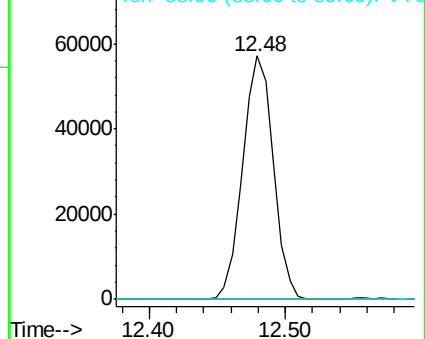
89 0.0 66.6 99.8#



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



#93

1,2,4-Trichlorobenzene

Concen: Below Cal

RT: 15.00 min Scan# 2176

Delta R.T. -0.01 min

Lab File: VY002723.D

Acq: 20 May 2020 12:00

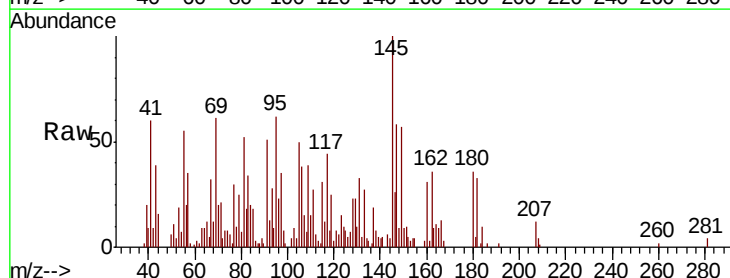
Tgt Ion: 180 Resp: 2768

Ion Ratio Lower Upper

180 100

182 110.3 47.3 142.0

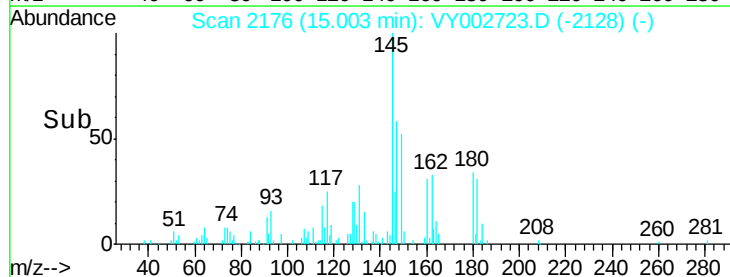
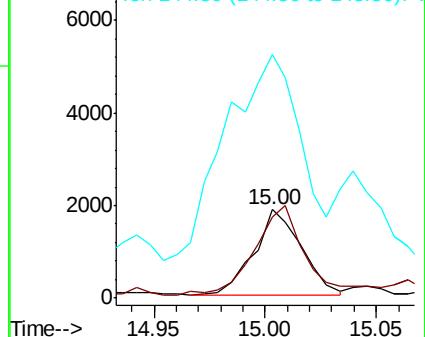
145 489.7 14.1 42.2#

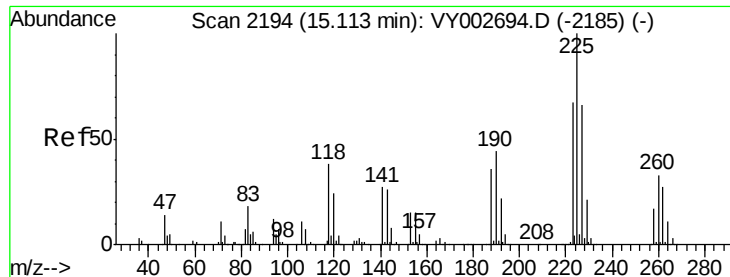


Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.11 min Scan# 2194

Delta R.T. 0.00 min

Lab File: VY002723.D

Acq: 20 May 2020 12:00

Instrument :

MSVOA\_Y

ClientSampled :

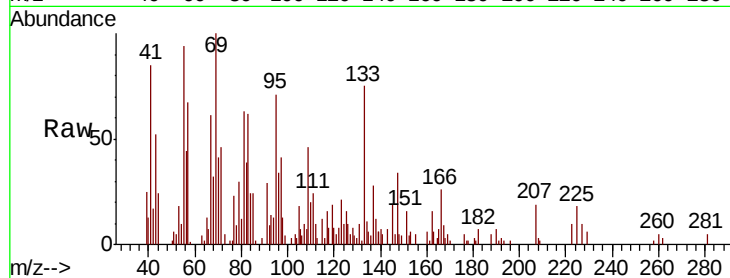
Tot Ion:225 Resp: 884

Ion Ratio Lower Upper

225 100

223 64.5 31.6 94.8

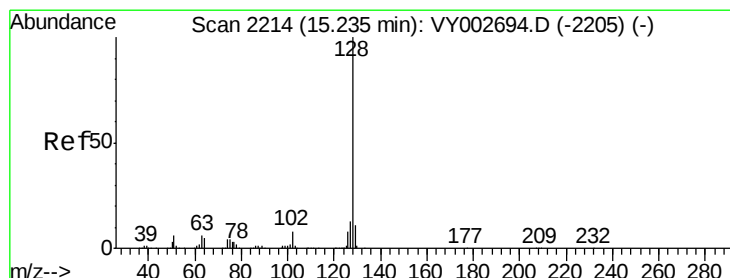
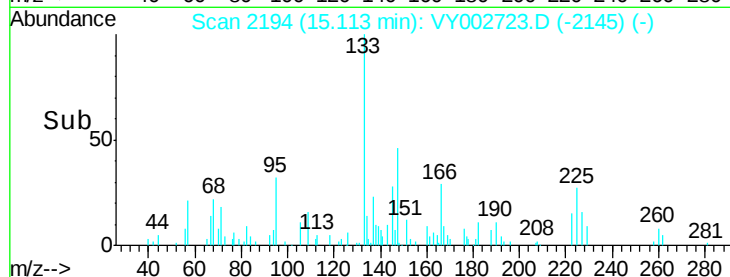
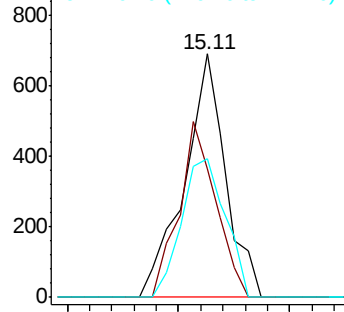
227 60.7 32.2 96.6



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 2.374 ug/l

RT: 15.23 min Scan# 2214

Delta R.T. 0.00 min

Lab File: VY002723.D

Acq: 20 May 2020 12:00

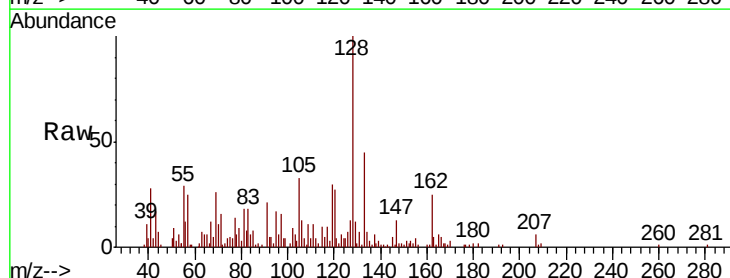
Tgt Ion:128 Resp: 18688

Ion Ratio Lower Upper

128 100

127 16.3 10.3 15.5#

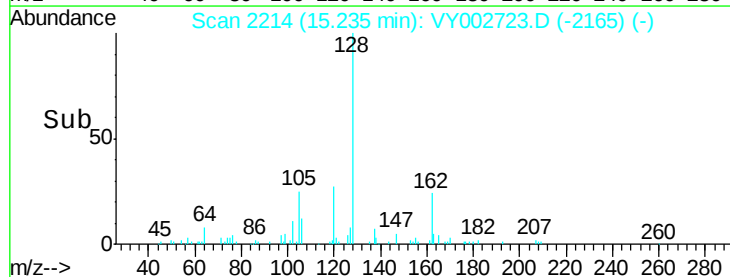
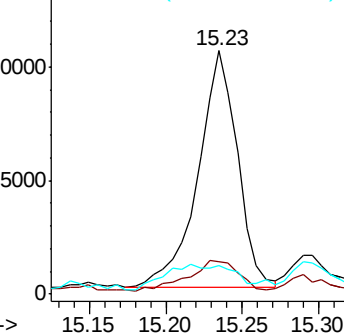
129 18.9 8.7 13.1#

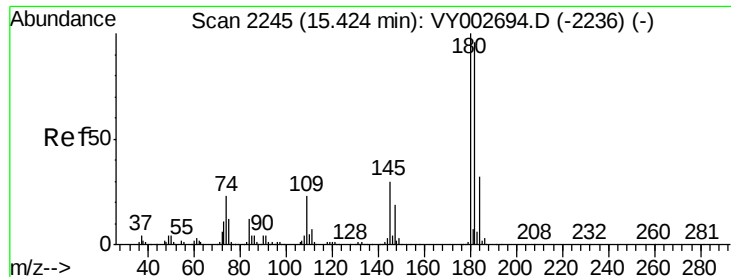


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#96  
 1,2,3-Trichlorobenzene  
 Concen: Below Cal  
 RT: 15.42 min Scan# 2245  
 Delta R.T. 0.00 min  
 Lab File: VY002723.D  
 Acq: 20 May 2020 12:00

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 79.5  | 47.6  | 142.9 |
| 145     | 0.0   | 15.1  | 45.3# |

