

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY052220\NOT REVIEWED DATA\  
 Data File : VY002751.D  
 Acq On : 22 May 2020 11:57  
 Operator : SY/MD  
 Sample : L2742-02RE  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: May 22 19:57:11 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  | 277396   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 439559   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 406655   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 202586   | 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   | 132768   | 61.19 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 122.38% |          |
| 35) Dibromofluoromethane    | 7.73  | 113  | 133633   | 55.09 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 110.18% |          |
| 50) Toluene-d8              | 10.18 | 98   | 514407   | 52.67 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.34% |          |
| 62) 4-Bromofluorobenzene    | 12.48 | 95   | 170871   | 50.90 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.80% |          |

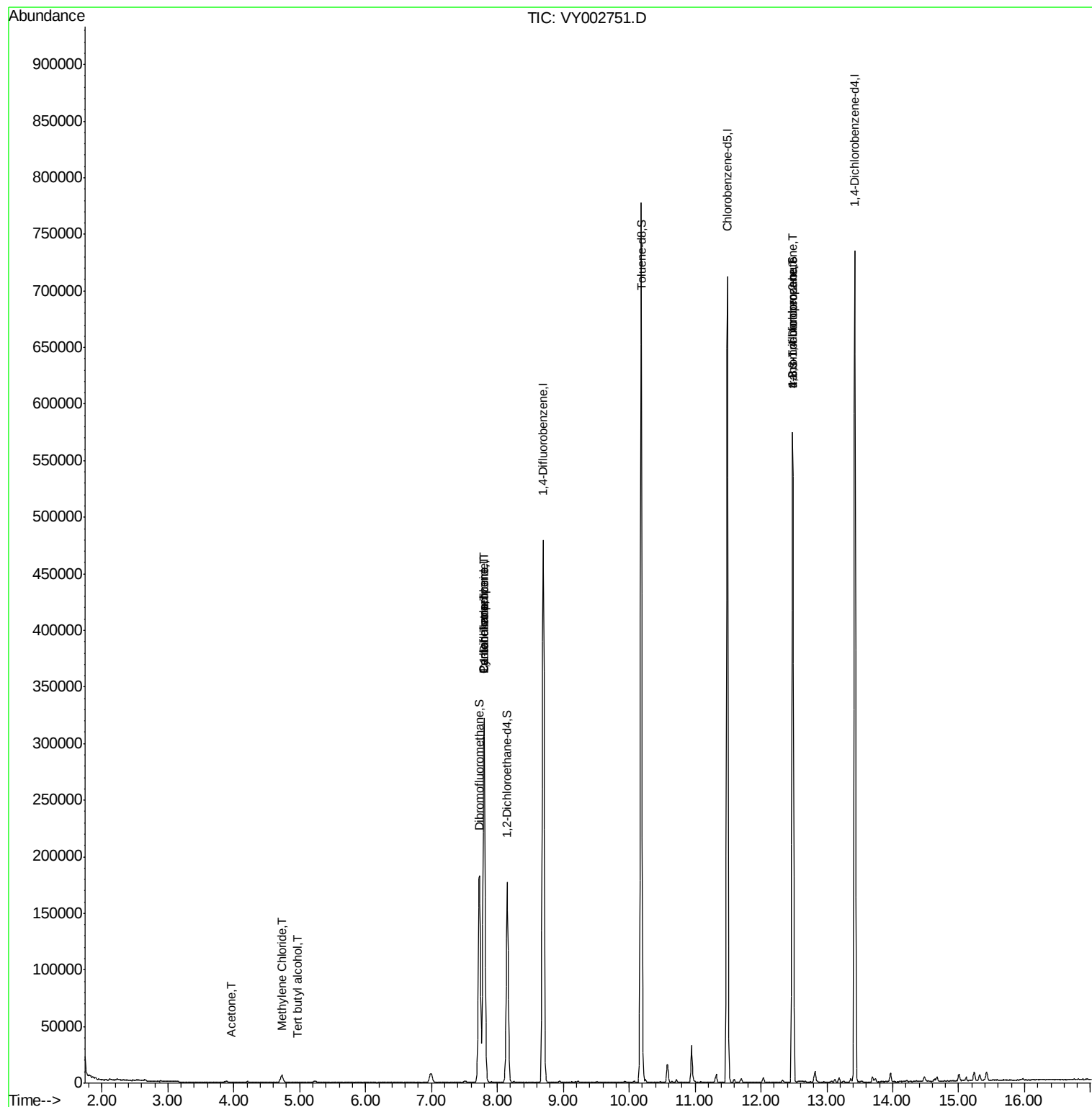
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 4.97  | 59   | 567      | 2.573     | ug/l # | 74     |
| 16) Acetone                    | 3.97  | 43   | 632      | 1.413     | ug/l # | 82     |
| 20) Methylene Chloride         | 4.73  | 84   | 5148     | 1.904     | ug/l   | 98     |
| 31) Cyclohexane                | 7.79  | 56   | 4303     | 1.024     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.80  | 75   | 16859    | 4.531     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.80  | 117  | 24125    | 6.032     | ug/l # | 17     |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75   | 82750    | 49.724    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75   | 82750    | 94.039    | ug/l # | 8      |
| 93) 1,2,4-Trichlorobenzene     | 15.01 | 180  | 2051     | Below Cal |        | 86     |
| 94) Hexachlorobutadiene        | 15.11 | 225  | 818      | Below Cal |        | 87     |
| 96) 1,2,3-Trichlorobenzene     | 15.42 | 180  | 3272     | Below Cal |        | 91     |

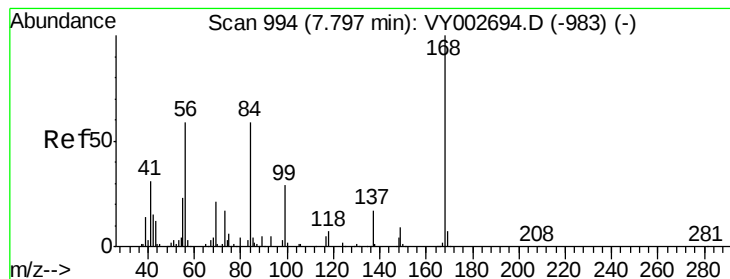
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_Y  
ClientSampleId :

Quant Time: May 22 19:57:11 2020  
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: VY002751.D

Acq: 22 May 2020 11:57

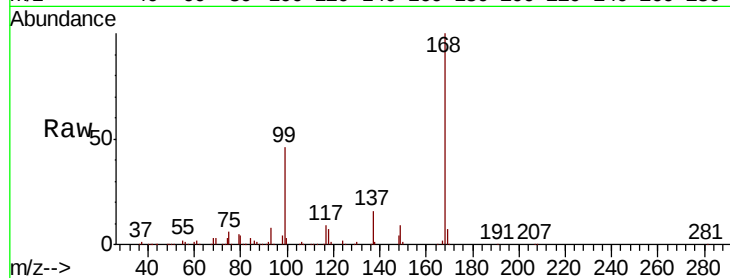
Instrument :  
MSVOA\_Y  
ClientSampled :

Tot Ion:168 Resp: 277396

Ion Ratio Lower Upper

168 100

99 46.5 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): VY002751.D (-945) (-)

Ion 98.90 (98.60 to 99.60): VY002751.D (-945) (-)

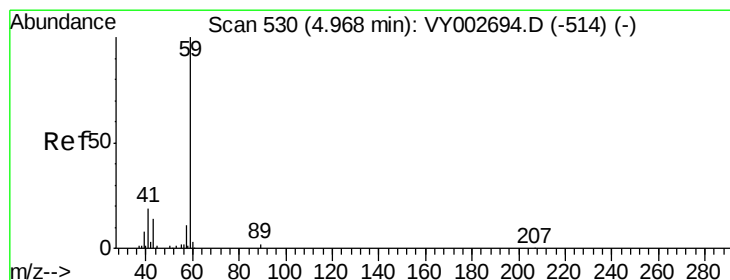
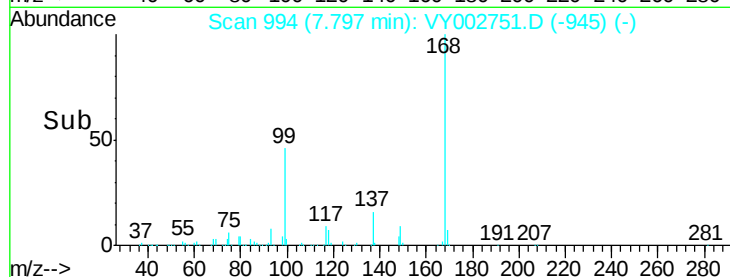
7.80

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 2.573 ug/l

RT: 4.97 min Scan# 531

Delta R.T. 0.01 min

Lab File: VY002751.D

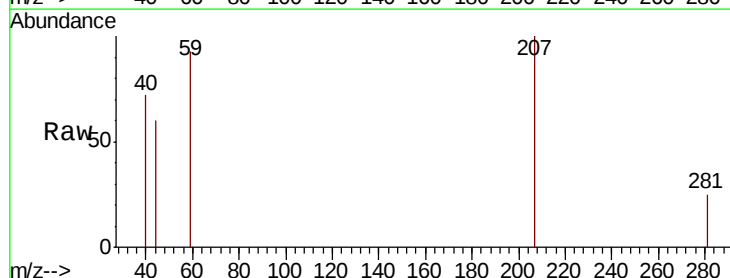
Acq: 22 May 2020 11:57

Tgt Ion: 59 Resp: 567

Ion Ratio Lower Upper

59 100

57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VY002751.D (-481) (-)

Ion 57.00 (56.70 to 57.70): VY002751.D (-481) (-)

4.97

250

200

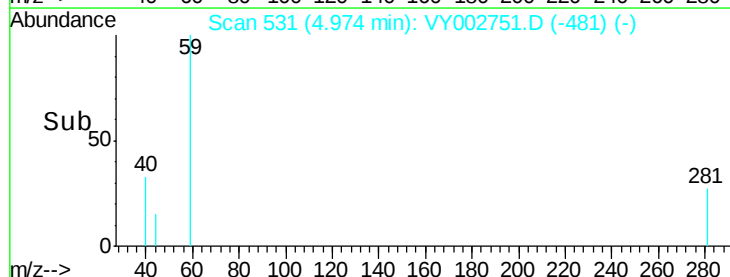
150

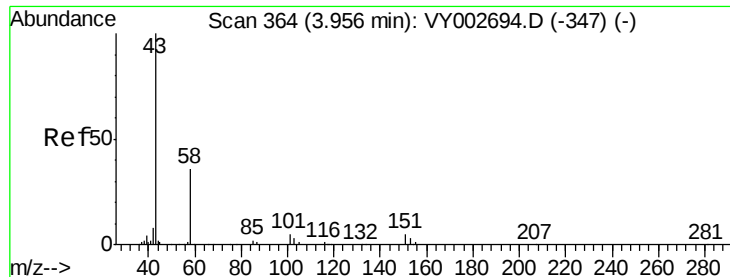
100

50

0

Time-->





#16

Acetone

Concen: 1.413 ug/l

RT: 3.97 min Scan# 366

Delta R.T. 0.01 min

Lab File: VY002751.D

Acq: 22 May 2020 11:57

Instrument :

MSVOA\_Y

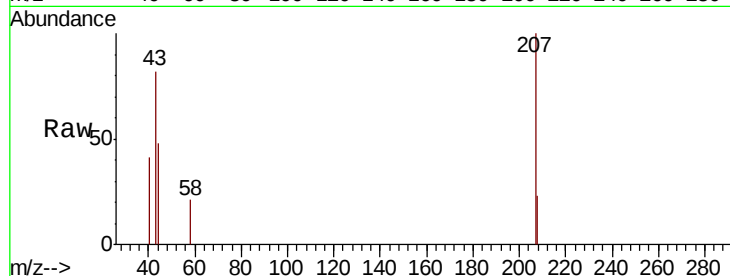
ClientSampleId :

Tot Ion: 43 Resp: 632

Ion Ratio Lower Upper

43 100

58 25.2 28.6 43.0#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

3.97

250

200

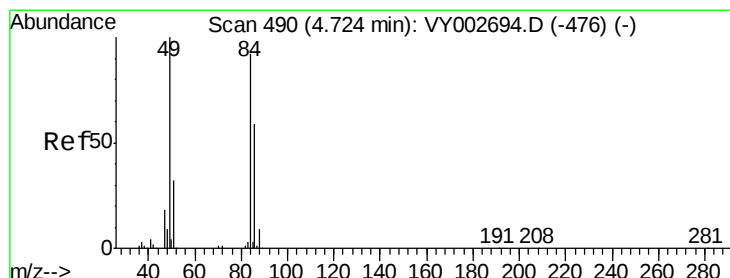
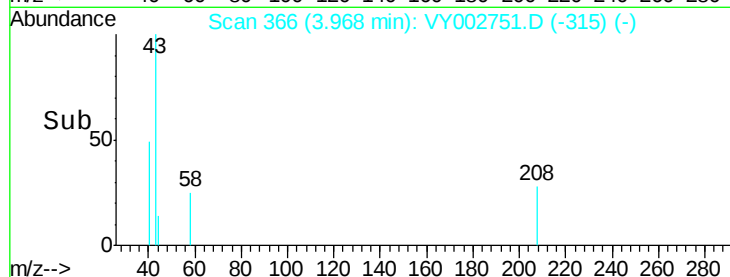
150

100

50

0

Time--> 3.90 3.95 4.00 4.05



#20

Methylene Chloride

Concen: 1.904 ug/l

RT: 4.73 min Scan# 491

Delta R.T. 0.01 min

Lab File: VY002751.D

Acq: 22 May 2020 11:57

Tgt Ion: 84 Resp: 5148

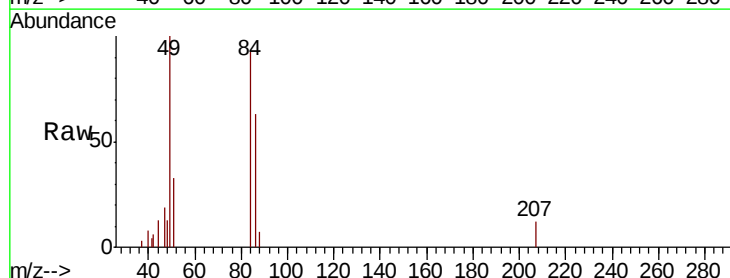
Ion Ratio Lower Upper

84 100

49 107.7 87.4 131.0

51 35.0 27.9 41.9

86 68.2 51.7 77.5



Abundance Ion 83.90 (83.60 to 84.60): VY0

Ion 48.90 (48.60 to 49.60): VY0

Ion 50.90 (50.60 to 51.60): VY0

Ion 85.90 (85.60 to 86.60): VY0

3000

2500

2000

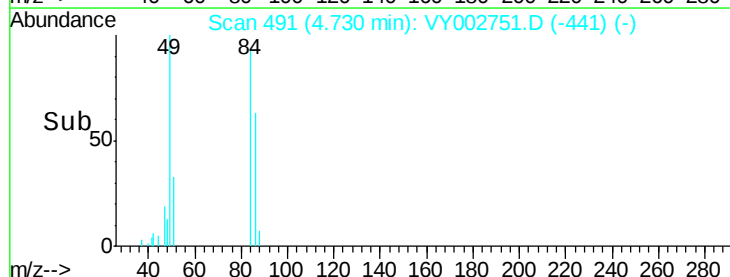
1500

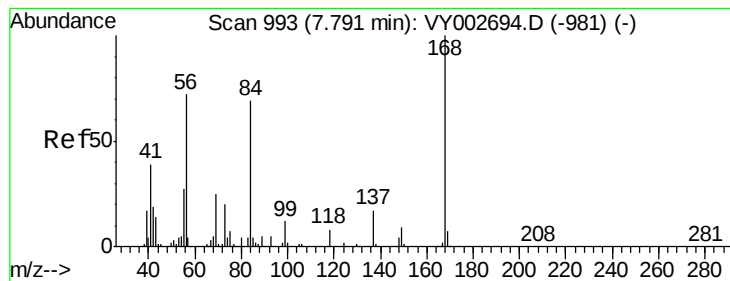
1000

500

0

Time--> 4.60 4.65 4.70 4.75 4.80





#31

Cyclohexane

Concen: 1.024 ug/l

RT: 7.79 min Scan# 993

Delta R.T. -0.00 min

Lab File: VY002751.D

Acq: 22 May 2020 11:57

Instrument :  
MSVOA\_Y  
ClientSampled :

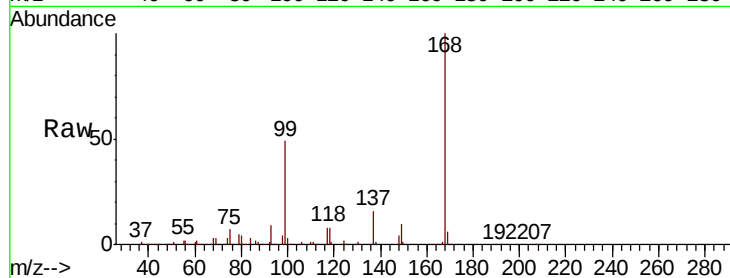
Tot Ion: 56 Resp: 4303

Ion Ratio Lower Upper

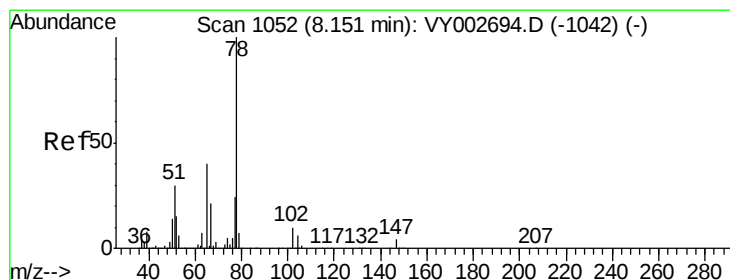
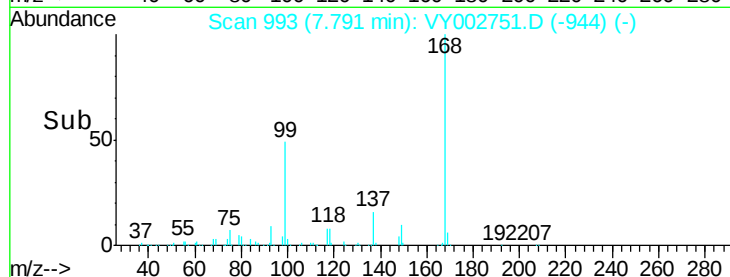
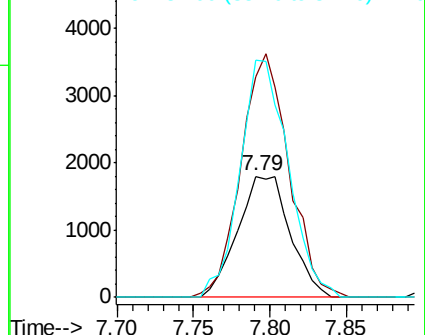
56 100

69 182.0 27.7 41.5#

84 196.0 77.0 115.4#



Abundance Ion 56.00 (55.70 to 56.70): VY0  
Ion 69.00 (68.70 to 69.70): VY0  
Ion 84.00 (83.70 to 84.70): VY0



#33

1,2-Dichloroethane-d4

Concen: 61.189 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. -0.00 min

Lab File: VY002751.D

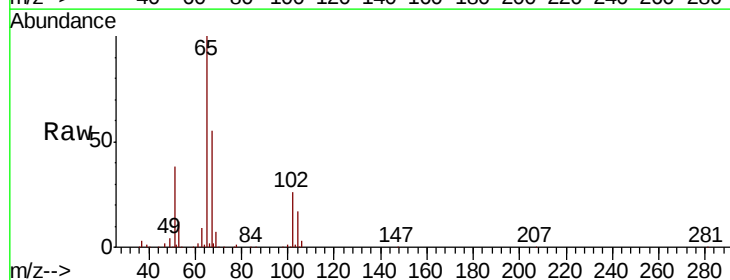
Acq: 22 May 2020 11:57

Tgt Ion: 65 Resp: 132768

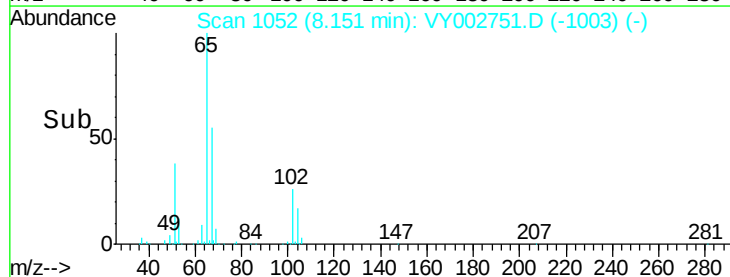
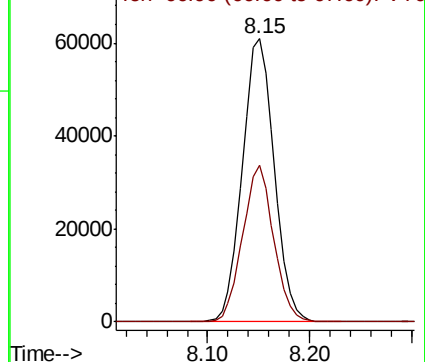
Ion Ratio Lower Upper

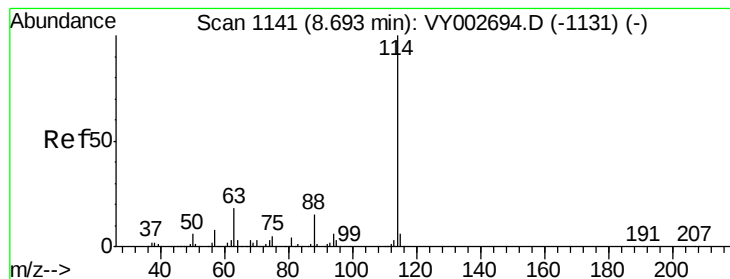
65 100

67 53.7 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: VY002751.D

Acq: 22 May 2020 11:57

Instrument :

MSVOA\_Y

ClientSampleId :

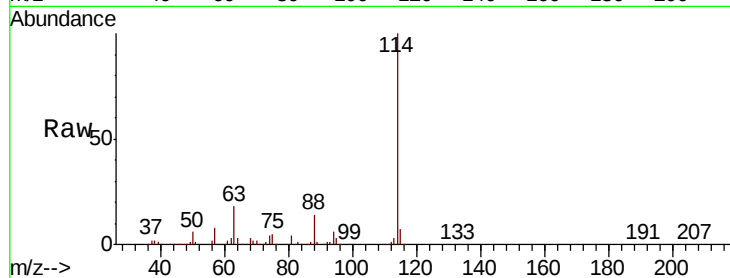
Tot Ion:114 Resp: 439559

Ion Ratio Lower Upper

114 100

63 17.6 0.0 35.4

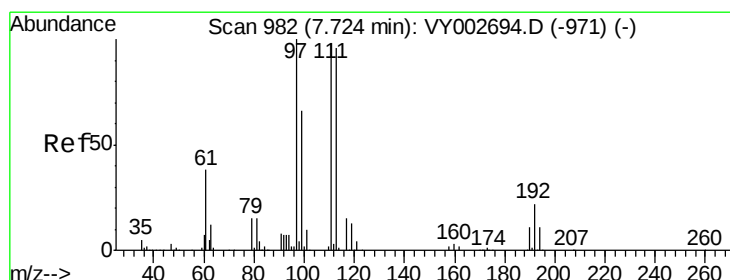
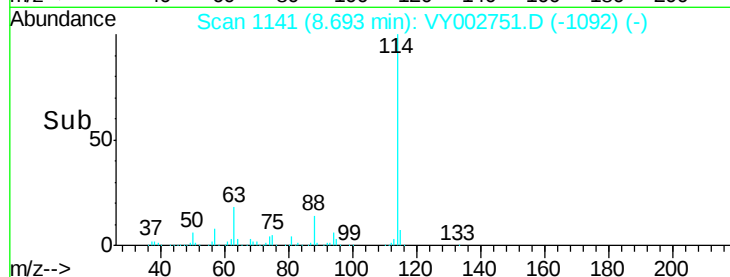
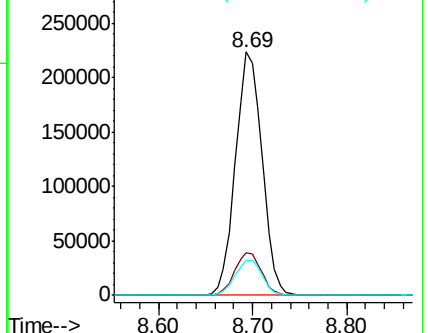
88 14.1 0.0 29.4



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: 55.088 ug/l

RT: 7.73 min Scan# 983

Delta R.T. 0.01 min

Lab File: VY002751.D

Acq: 22 May 2020 11:57

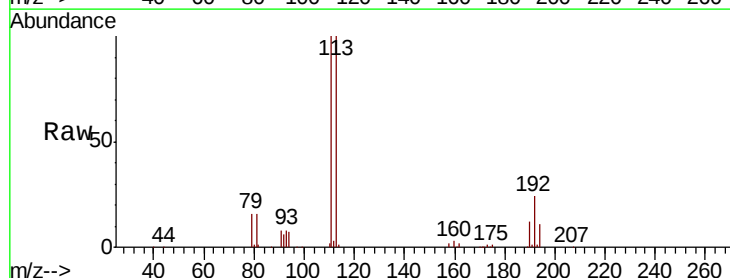
Tgt Ion:113 Resp: 133633

Ion Ratio Lower Upper

113 100

111 101.4 81.9 122.9

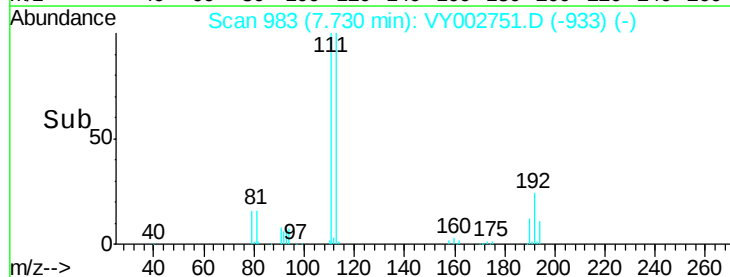
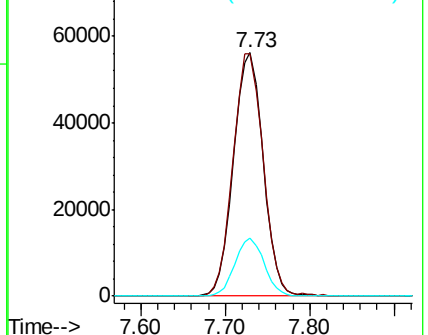
192 23.4 18.6 27.8

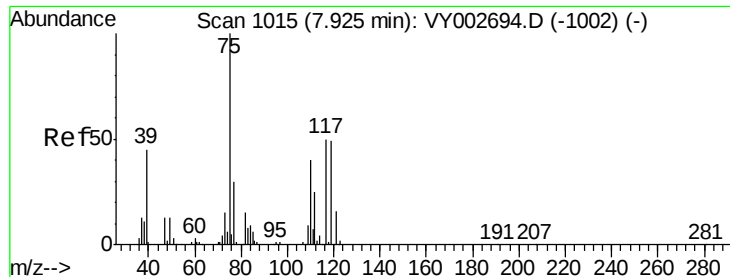


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

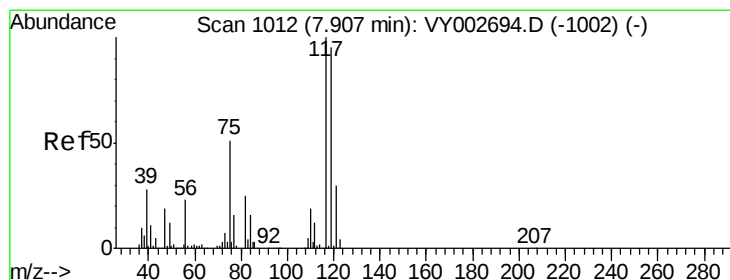
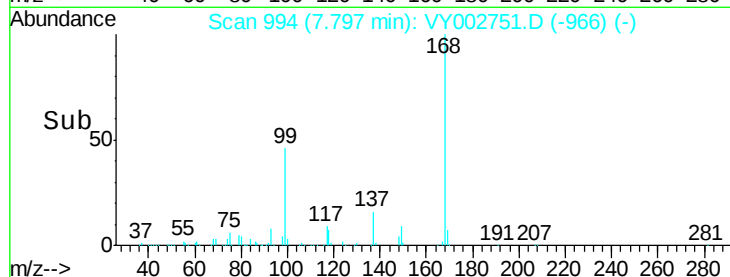
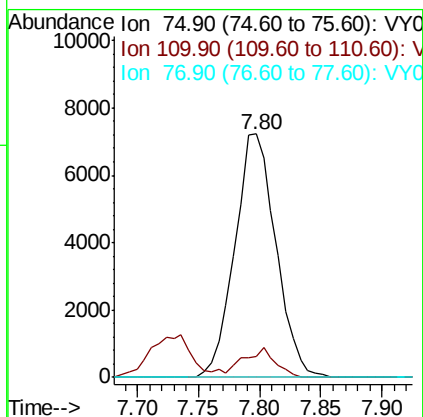
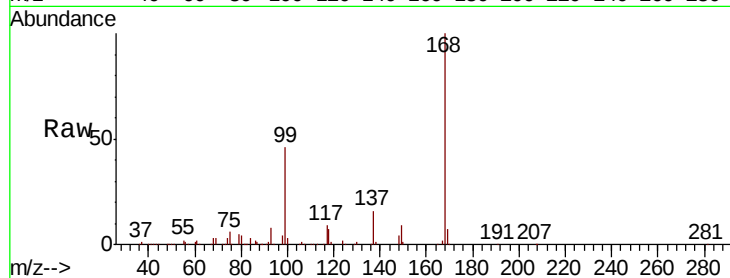




#36  
 1,1-Dichloropropene  
 Concen: 4.531 ug/l  
 RT: 7.80 min Scan# 994  
 Delta R.T. -0.13 min  
 Lab File: VY002751.D  
 Acq: 22 May 2020 11:57

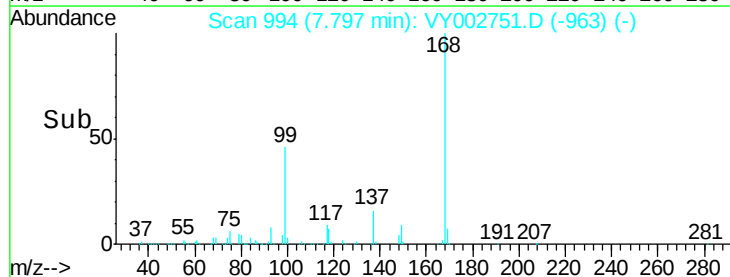
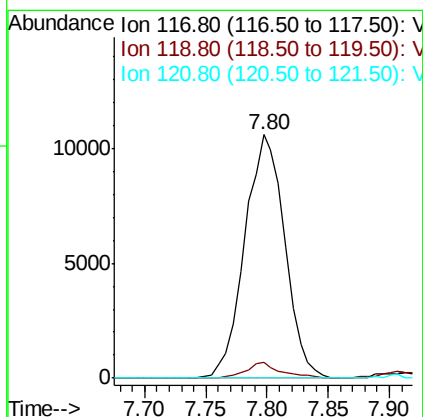
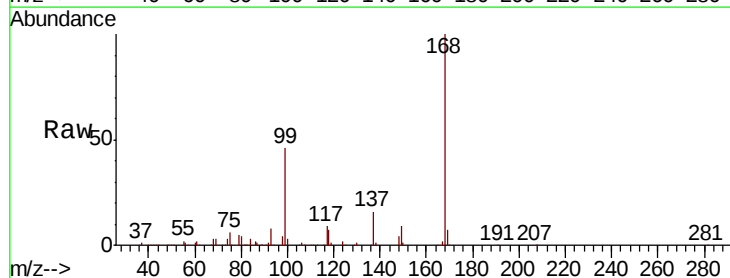
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

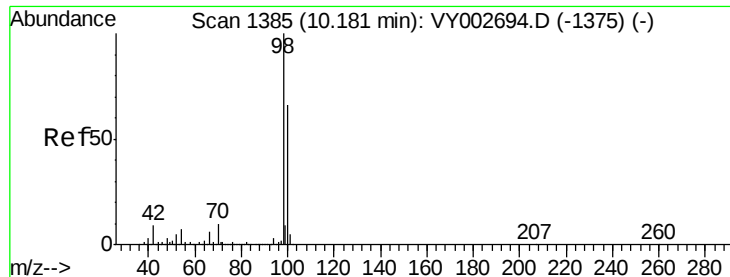
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 10.1  | 19.4  | 58.4# |
| 77      | 0.0   | 25.0  | 37.4# |



#38  
 Carbon Tetrachloride  
 Concen: 6.032 ug/l  
 RT: 7.80 min Scan# 994  
 Delta R.T. -0.11 min  
 Lab File: VY002751.D  
 Acq: 22 May 2020 11:57

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 6.2   | 76.3  | 114.5# |
| 121     | 0.0   | 24.2  | 36.2#  |





#50

Toluene-d8

Concen: 52.670 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VY002751.D

Acq: 22 May 2020 11:57

Instrument :

MSVOA\_Y

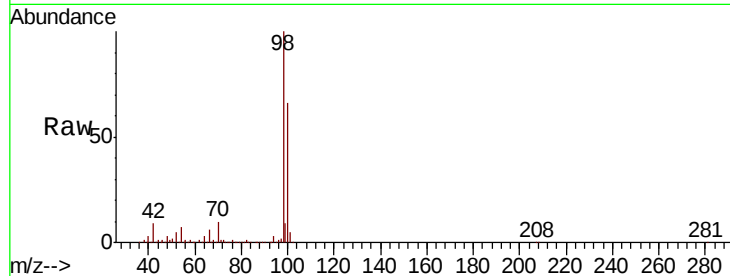
ClientSampleId :

Tot Ion: 98 Resp: 514407

Ion Ratio Lower Upper

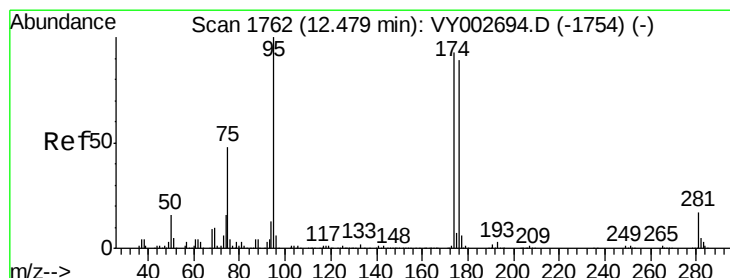
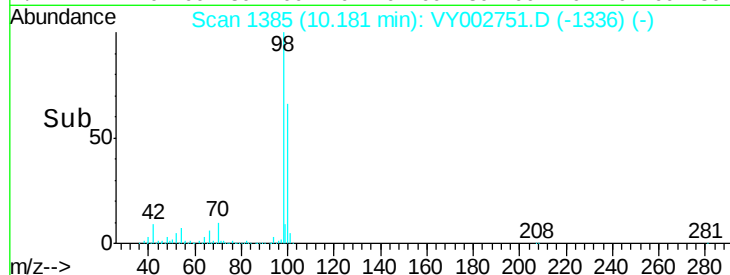
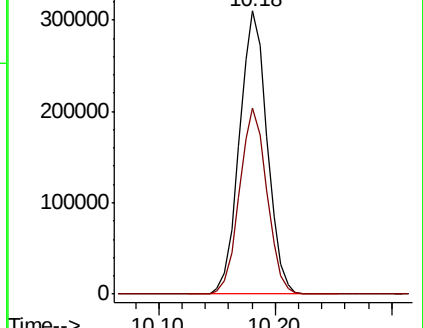
98 100

100 65.0 52.3 78.5



Abundance Ion 98.00 (97.70 to 98.70): VY002694.D (-1375) (-)

Ion 100.00 (99.70 to 100.70): VY002751.D (-1336) (-)



#62

4-Bromofluorobenzene

Concen: 50.903 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.00 min

Lab File: VY002751.D

Acq: 22 May 2020 11:57

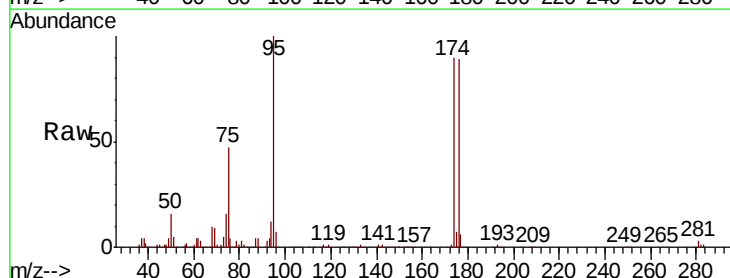
Tgt Ion: 95 Resp: 170871

Ion Ratio Lower Upper

95 100

174 95.7 0.0 191.4

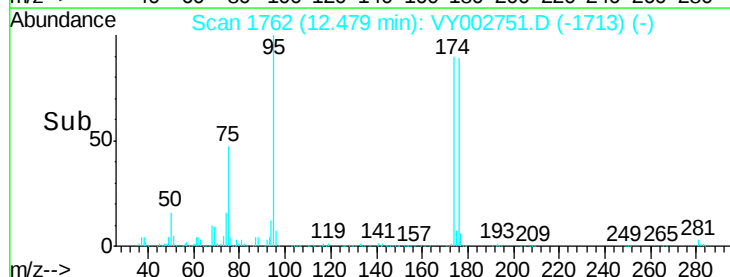
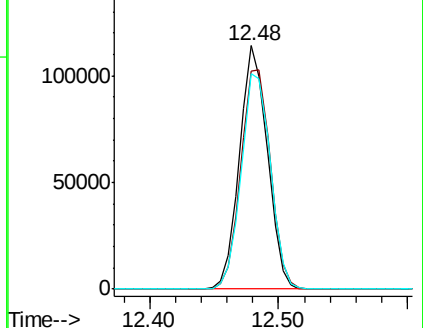
176 92.6 0.0 186.0

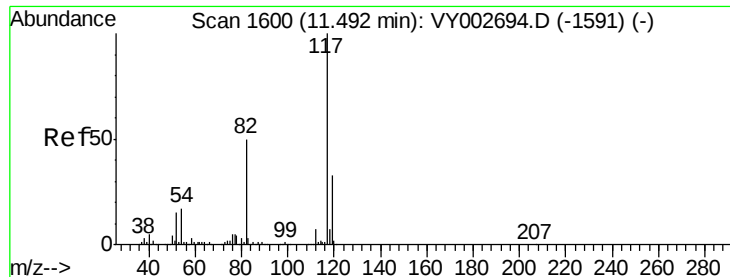


Abundance Ion 94.90 (94.60 to 95.60): VY002694.D (-1754) (-)

Ion 173.80 (173.50 to 174.50): VY002694.D (-1754) (-)

Ion 175.80 (175.50 to 176.50): VY002751.D (-1713) (-)

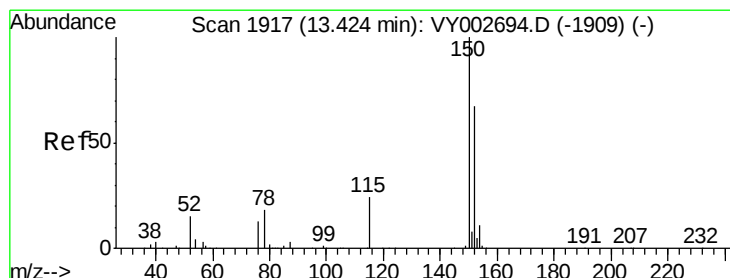
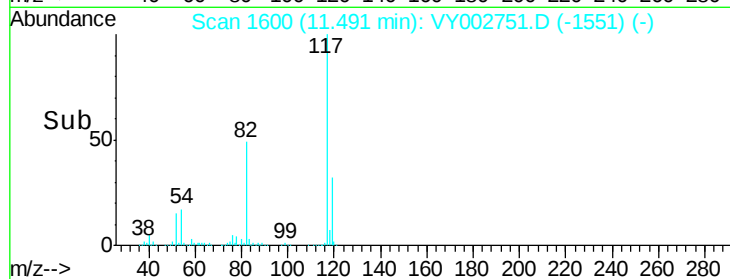
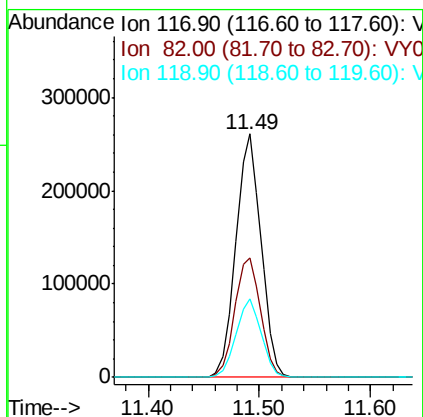
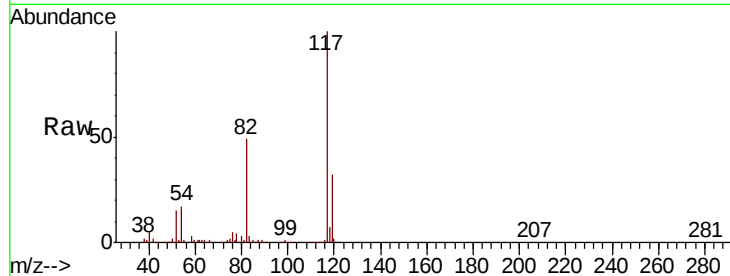




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VY002751.D  
Acq: 22 May 2020 11:57

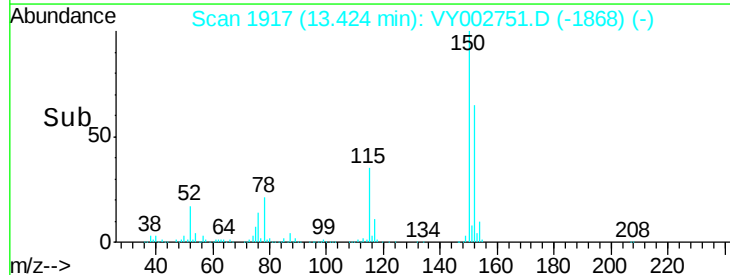
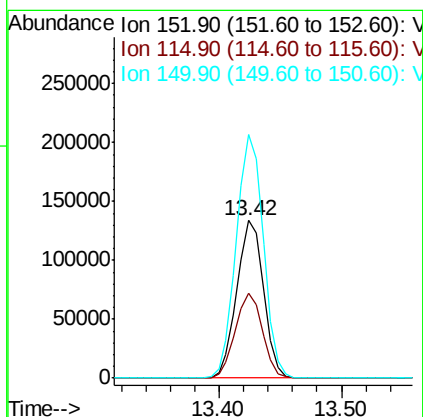
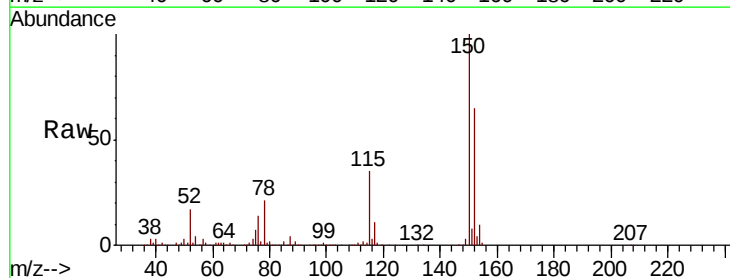
Instrument :  
MSVOA\_Y  
ClientSampleId :

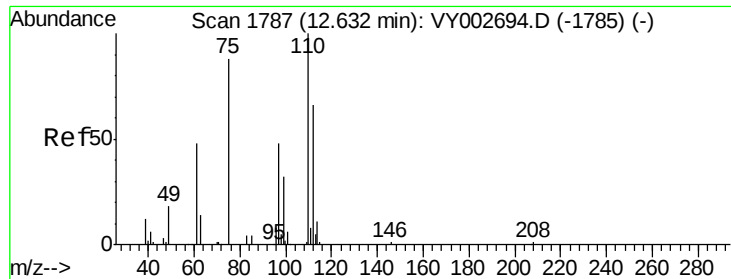
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 49.3  | 40.3  | 60.5  |
| 119     | 32.4  | 26.2  | 39.4  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1917  
Delta R.T. -0.00 min  
Lab File: VY002751.D  
Acq: 22 May 2020 11:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 54.1  | 27.2  | 81.6  |
| 150     | 156.4 | 0.0   | 343.8 |





#76

1,2,3-Trichloropropane

Concen: 49.724 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY002751.D

Acq: 22 May 2020 11:57

Instrument :

MSVOA\_Y

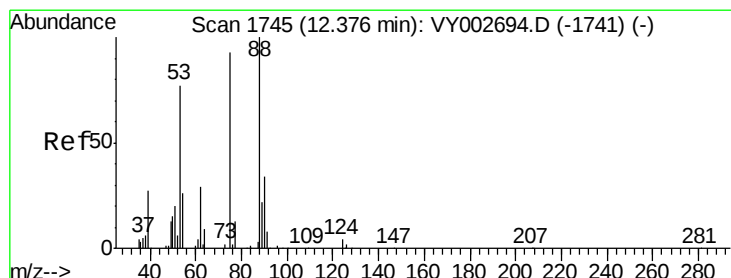
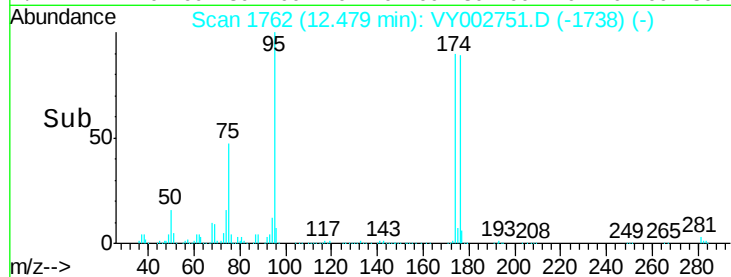
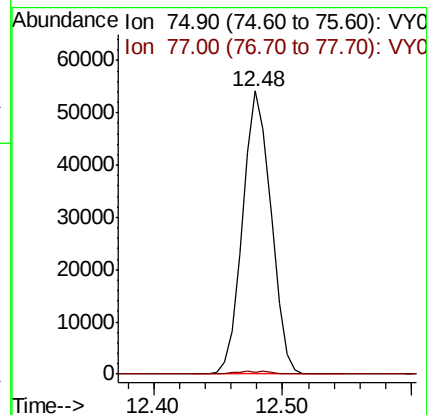
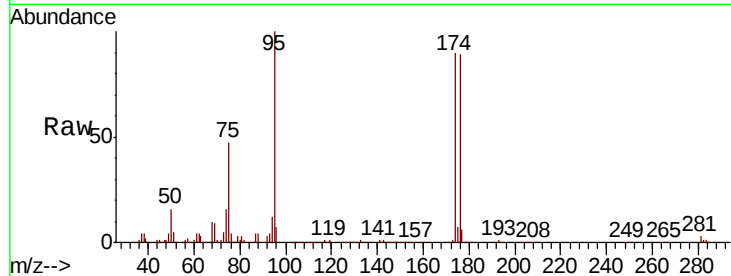
ClientSampleId :

Tot Ion: 75 Resp: 82750

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 94.039 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY002751.D

Acq: 22 May 2020 11:57

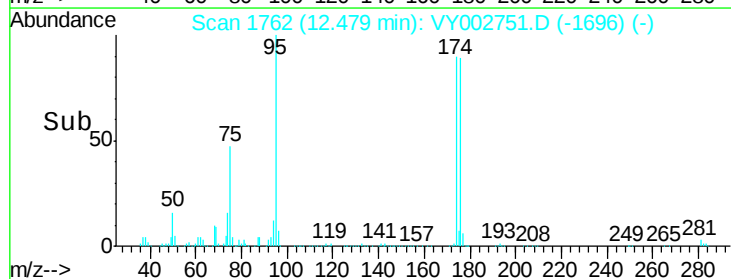
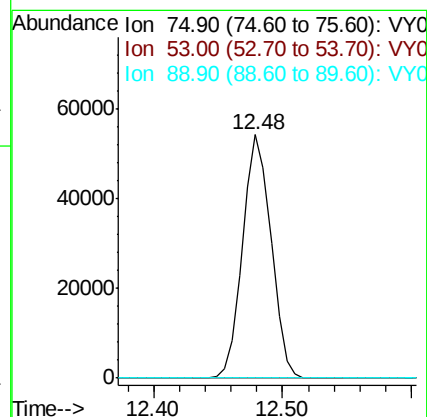
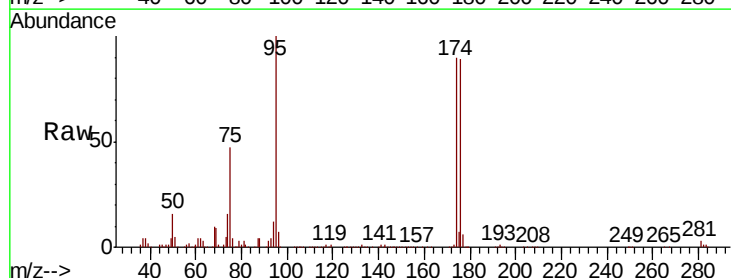
Tgt Ion: 75 Resp: 82750

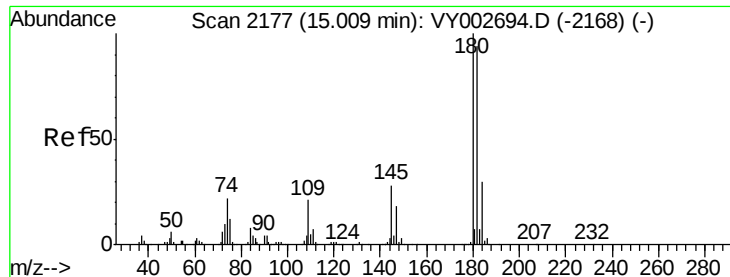
Ion Ratio Lower Upper

75 100

53 0.0 65.0 97.6#

89 0.0 66.6 99.8#

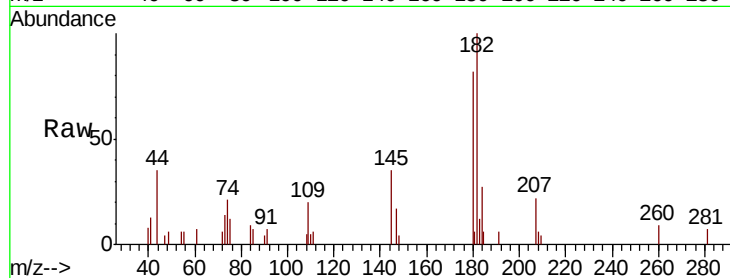




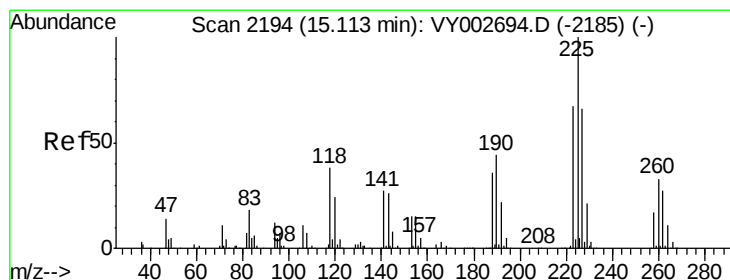
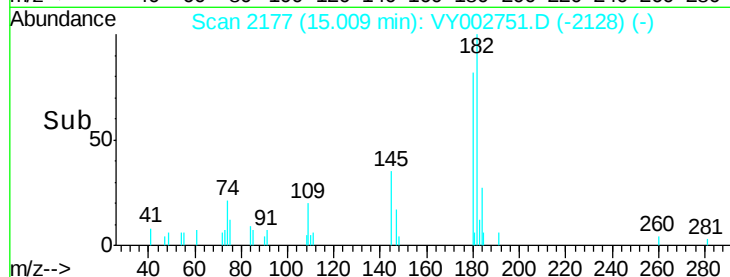
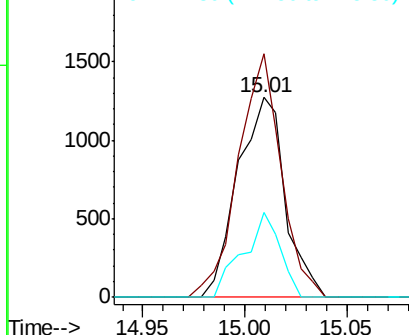
#93  
 1,2,4-Trichlorobenzene  
 Concen: Below Cal  
 RT: 15.01 min Scan# 2177  
 Delta R.T. 0.00 min  
 Lab File: VY002751.D  
 Acq: 22 May 2020 11:57

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Tot Ion:180 Resp: 2051  
 Ion Ratio Lower Upper  
 180 100  
 182 109.8 47.3 142.0  
 145 33.1 14.1 42.2

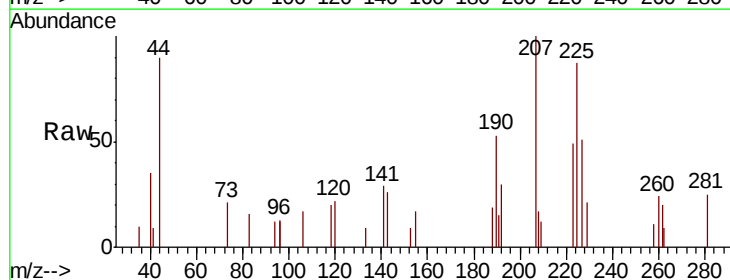


Abundance Ion 179.80 (179.50 to 180.50): V  
 Ion 181.80 (181.50 to 182.50): V  
 Ion 144.80 (144.50 to 145.50): V

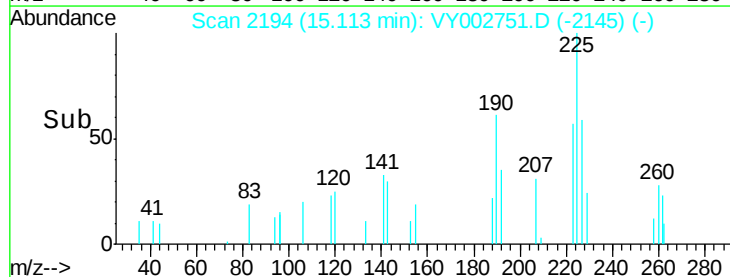
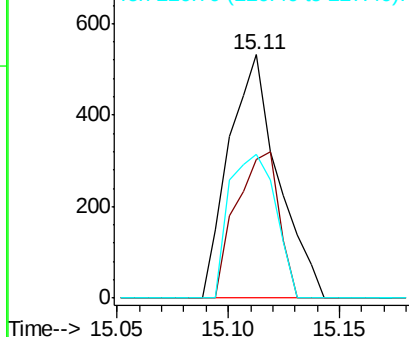


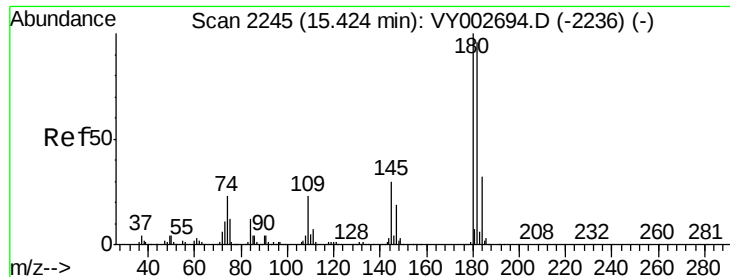
#94  
 Hexachlorobutadiene  
 Concen: Below Cal  
 RT: 15.11 min Scan# 2194  
 Delta R.T. 0.00 min  
 Lab File: VY002751.D  
 Acq: 22 May 2020 11:57

Tgt Ion:225 Resp: 818  
 Ion Ratio Lower Upper  
 225 100  
 223 52.0 31.6 94.8  
 227 55.6 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





#96  
 1,2,3-Trichlorobenzene  
 Concen: Below Cal  
 RT: 15.42 min Scan# 2245  
 Delta R.T. 0.00 min  
 Lab File: VY002751.D  
 Acq: 22 May 2020 11:57

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 84.5  | 47.6  | 142.9 |
| 145     | 28.5  | 15.1  | 45.3  |

