

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_Y\DATA\VY061120\  
 Data File : VY002881.D  
 Acq On : 11 Jun 2020 10:43  
 Operator : SY/MD  
 Sample : VY0611SBL01  
 Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0611SBL01

Quant Time: Jun 11 16:38:36 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y052720S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 27 13:13:33 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 258114   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 415151   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 396145   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 198242   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| System Monitoring Compounds |        |     |          |       |         |      |
| 33) 1,2-Dichloroethane-d4   | 8.15   | 65  | 130563   | 58.26 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 116.52% |      |
| 35) Dibromofluoromethane    | 7.72   | 113 | 130309   | 53.56 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 107.12% |      |
| 50) Toluene-d8              | 10.18  | 98  | 490718   | 49.88 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.76%  |      |
| 62) 4-Bromofluorobenzene    | 12.48  | 95  | 166582   | 49.55 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.10%  |      |

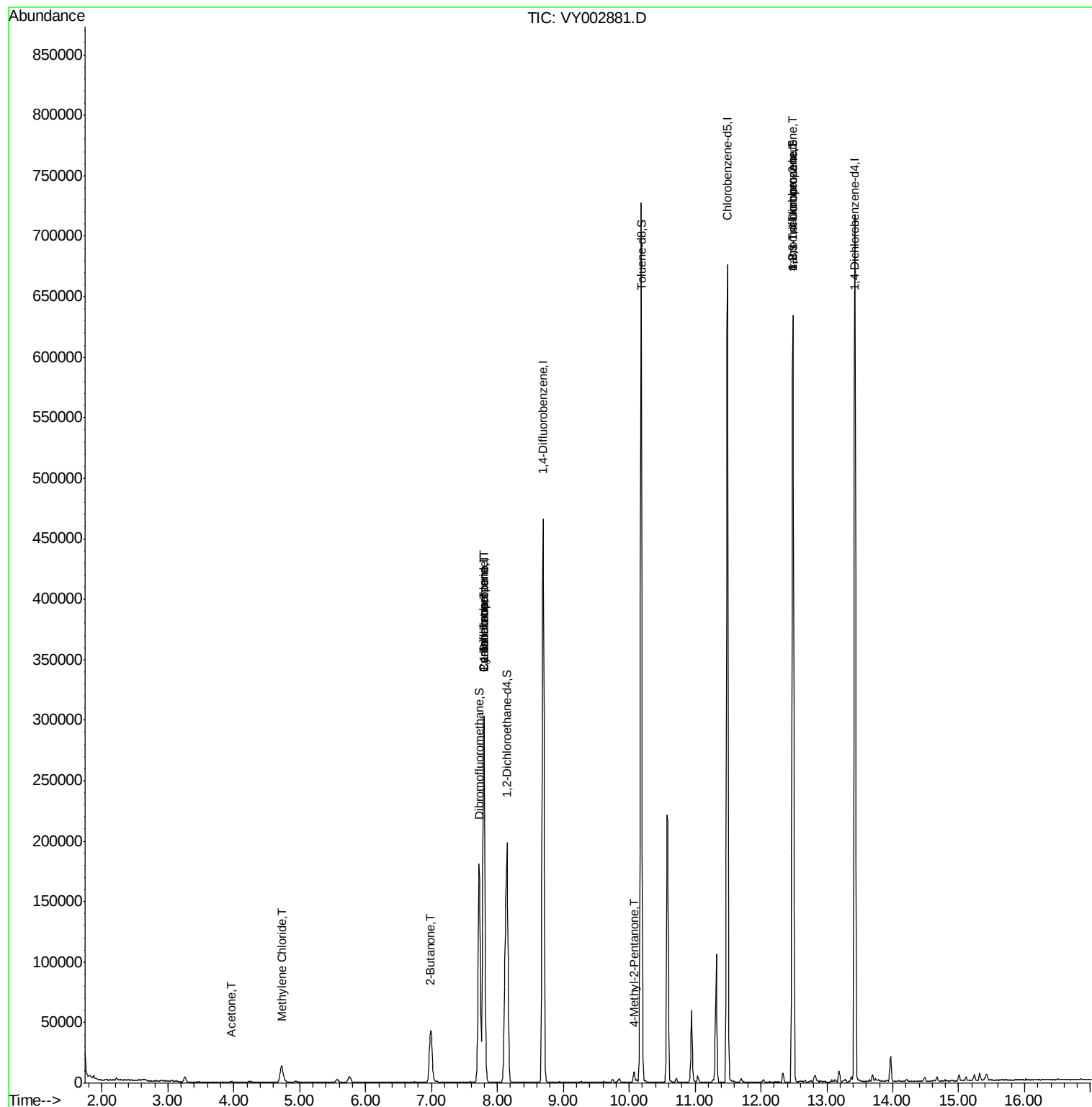
| Target Compounds               |       |     |       |           |        | Qvalue |
|--------------------------------|-------|-----|-------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 4.95  | 59  | 836   | Below Cal | #      | 74     |
| 16) Acetone                    | 3.96  | 43  | 1429  | 2.72      | ug/l # | 67     |
| 18) Methyl Acetate             | 4.48  | 43  | 254   | Below Cal | #      | 86     |
| 20) Methylene Chloride         | 4.72  | 84  | 10979 | 4.27      | ug/l   | 96     |
| 25) 2-Butanone                 | 6.99  | 43  | 2226  | 2.72      | ug/l   | 90     |
| 31) Cyclohexane                | 7.79  | 56  | 3992  | 1.05      | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.80  | 75  | 15759 | 4.51      | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.79  | 117 | 23071 | 5.94      | ug/l # | 16     |
| 51) 4-Methyl-2-Pentanone       | 10.07 | 43  | 5894  | 3.09      | ug/l   | 99     |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75  | 81751 | 45.77     | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75  | 81751 | 86.22     | ug/l # | 17     |

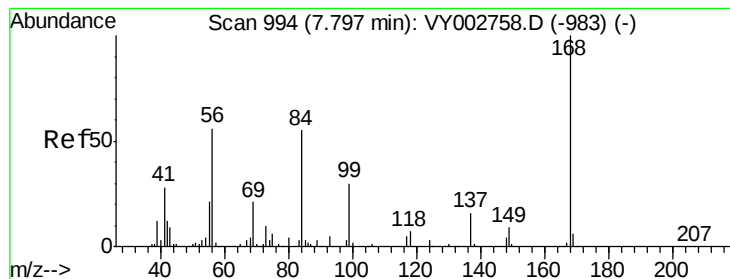
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\DATA\VY061120\  
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Sample : VY0611SBL01  
Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY0611SBL01

Quant Time: Jun 11 16:38:36 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y052720S.M  
Quant Title : SW846 8260  
QLast Update : Wed May 27 13:13:33 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.00 min

Lab File: VY002881.D

Acq: 11 Jun 2020 10:43

Instrument :

MSVOA\_Y

ClientSampleId :

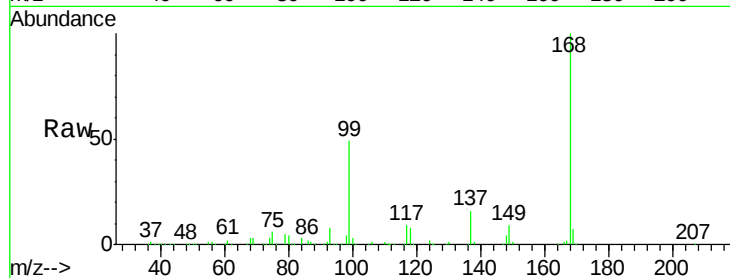
VY0611SBL01

Tgt Ion:168 Resp: 258114

Ion Ratio Lower Upper

168 100

99 48.6 39.0 58.4



Abundance Ion 167.90 (167.60 to 168.60): VY002758.D (-983) (-)

Ion 98.90 (98.60 to 99.60): VY002758.D (-983) (-)

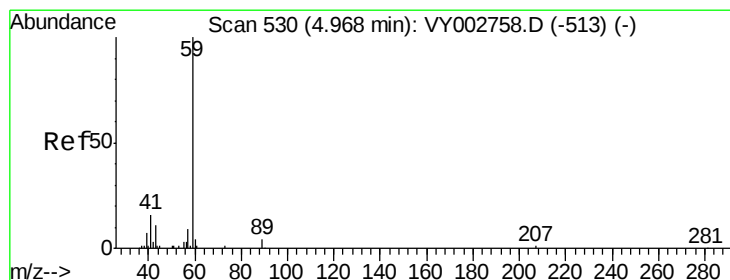
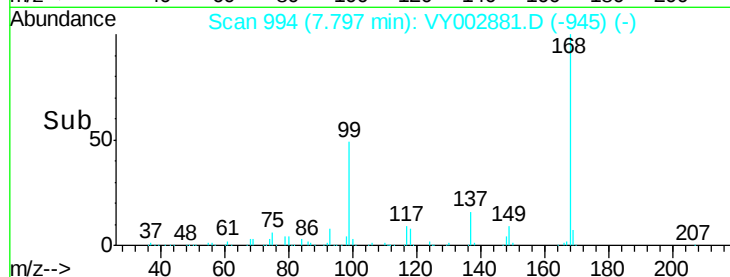
7.80

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.95 min Scan# 527

Delta R.T. -0.02 min

Lab File: VY002881.D

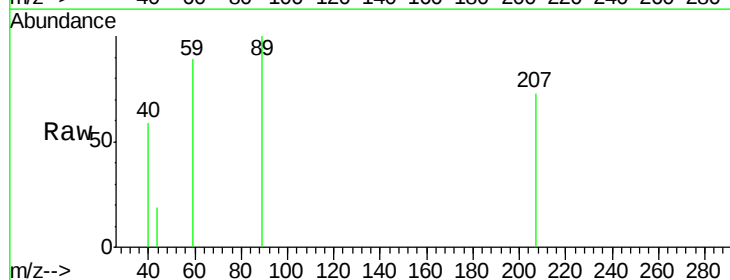
Acq: 11 Jun 2020 10:43

Tgt Ion: 59 Resp: 836

Ion Ratio Lower Upper

59 100

57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VY002758.D (-513) (-)

Ion 57.00 (56.70 to 57.70): VY002758.D (-513) (-)

4.95

400

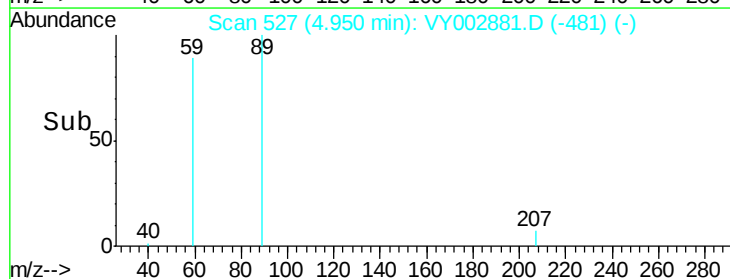
300

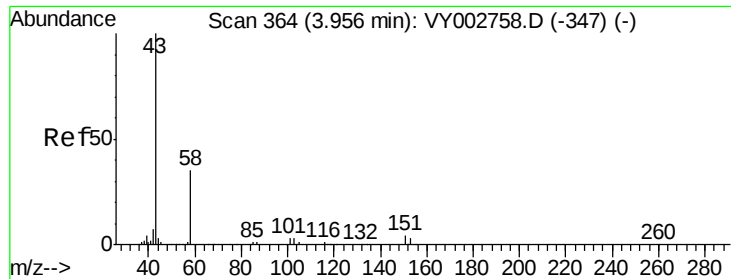
200

100

0

Time-->





#16

Acetone

Concen: 2.72 ug/l

RT: 3.96 min Scan# 365

Delta R.T. 0.01 min

Lab File: VY002881.D

Acq: 11 Jun 2020 10:43

Instrument :

MSVOA\_Y

ClientSampleId :

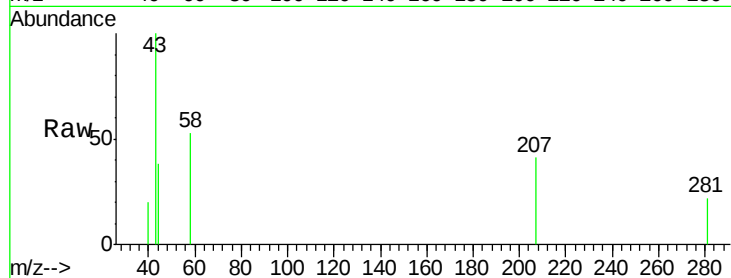
VY0611SBL01

Tgt Ion: 43 Resp: 1429

Ion Ratio Lower Upper

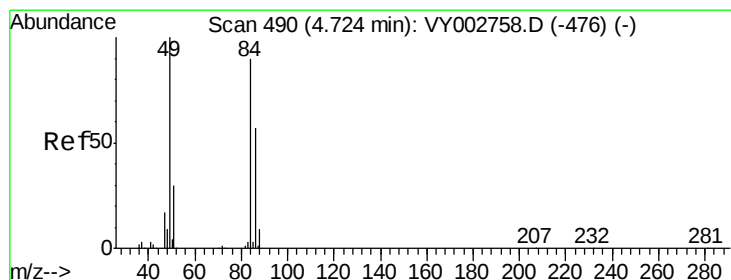
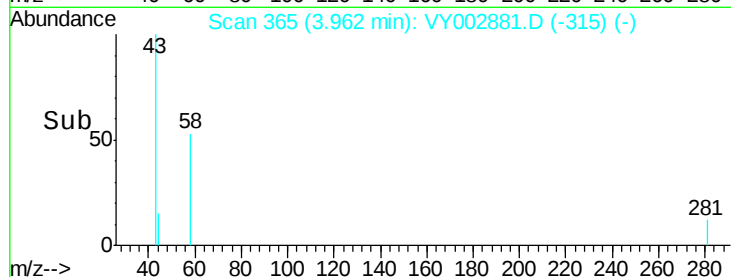
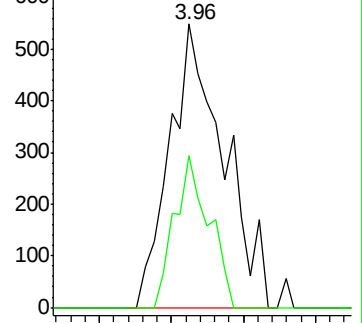
43 100

58 53.5 27.7 41.5#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#20

Methylene Chloride

Concen: 4.27 ug/l

RT: 4.72 min Scan# 490

Delta R.T. 0.00 min

Lab File: VY002881.D

Acq: 11 Jun 2020 10:43

Tgt Ion: 84 Resp: 10979

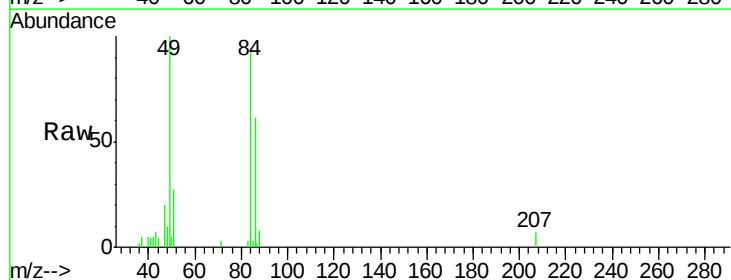
Ion Ratio Lower Upper

84 100

49 106.7 88.5 132.7

51 29.0 26.8 40.2

86 64.7 50.6 75.8

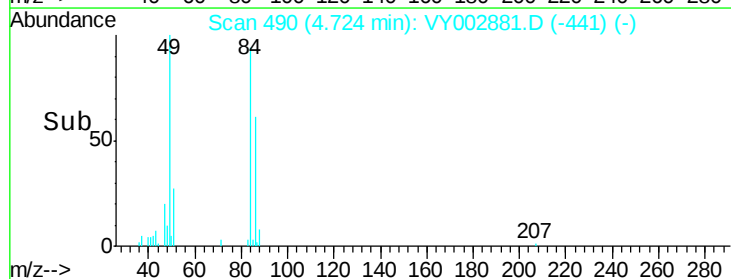
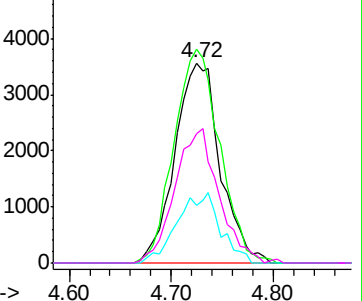


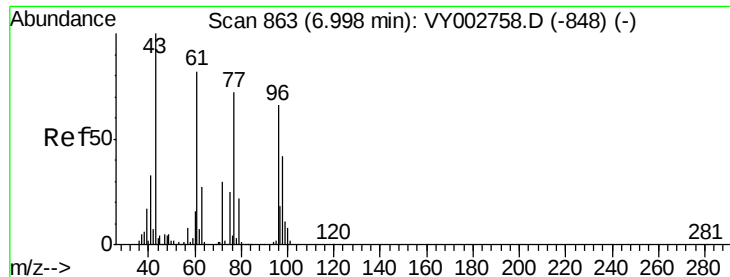
Abundance Ion 83.90 (83.60 to 84.60): VY0

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

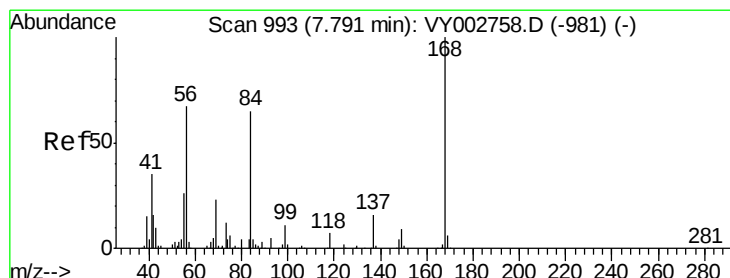
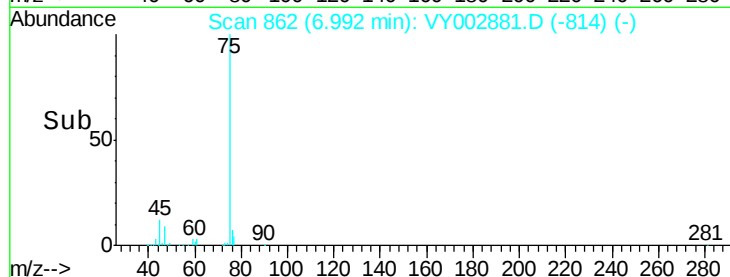
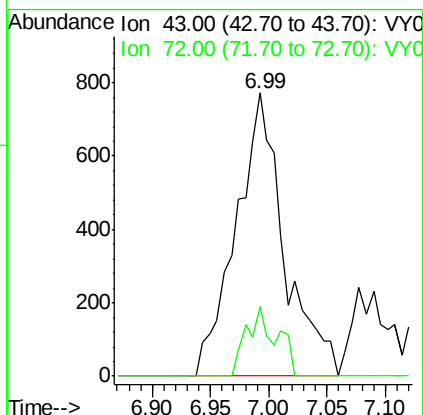
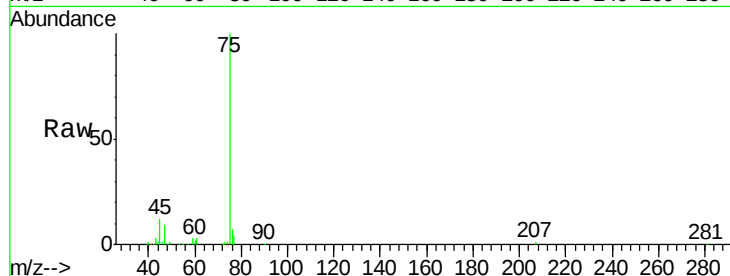




#25  
2-Butanone  
Concen: 2.72 ug/l  
RT: 6.99 min Scan# 862  
Delta R.T. -0.01 min  
Lab File: VY002881.D  
Acq: 11 Jun 2020 10:43

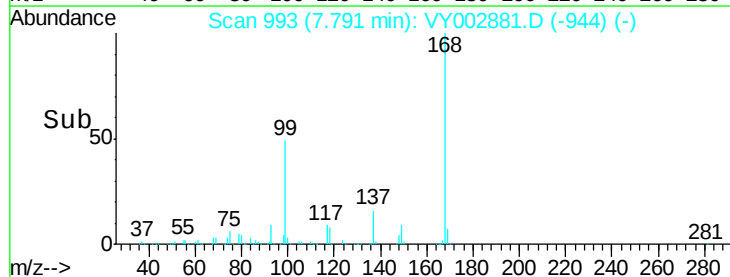
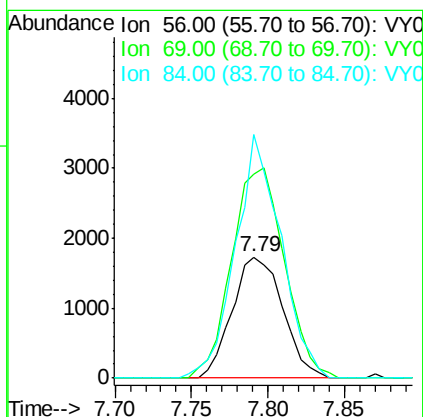
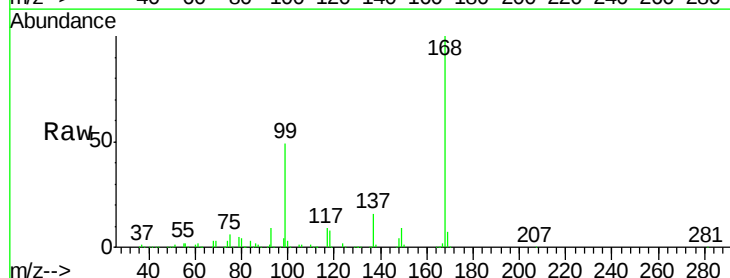
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY0611SBL01

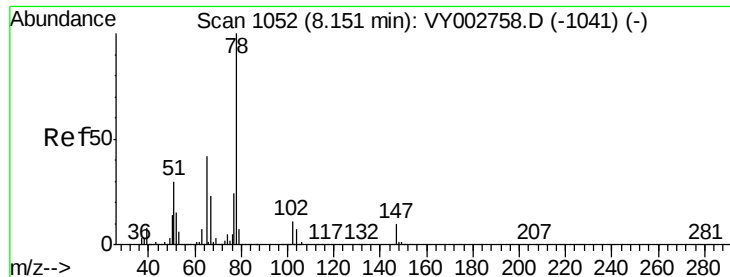
Tgt Ion: 43 Resp: 2226  
Ion Ratio Lower Upper  
43 100  
72 24.6 23.9 35.9



#31  
Cyclohexane  
Concen: 1.05 ug/l  
RT: 7.79 min Scan# 993  
Delta R.T. 0.00 min  
Lab File: VY002881.D  
Acq: 11 Jun 2020 10:43

Tgt Ion: 56 Resp: 3992  
Ion Ratio Lower Upper  
56 100  
69 168.7 28.0 42.0#  
84 212.8 77.7 116.5#





#33

1,2-Dichloroethane-d4

Concen: 58.26 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. 0.00 min

Lab File: VY002881.D

Acq: 11 Jun 2020 10:43

Instrument :

MSVOA\_Y

ClientSampleId :

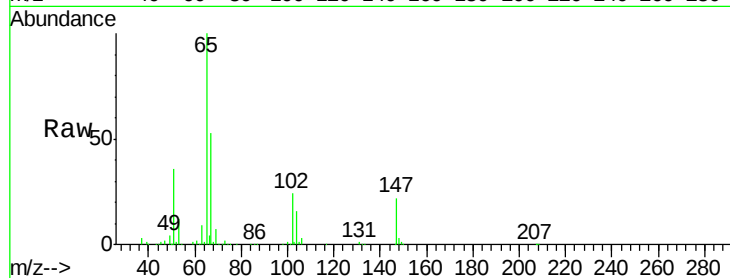
VY0611SBL01

Tgt Ion: 65 Resp: 130563

Ion Ratio Lower Upper

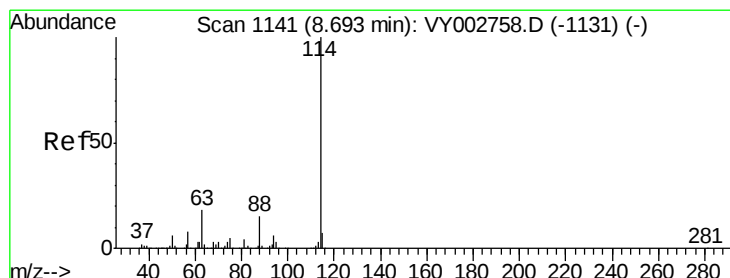
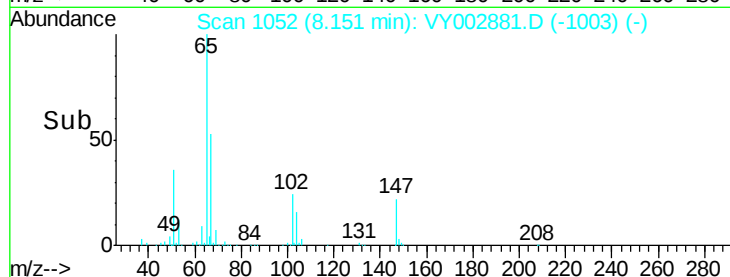
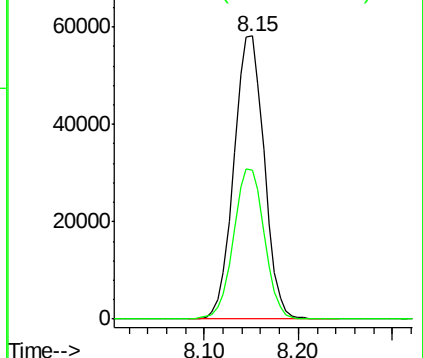
65 100

67 54.2 0.0 111.0



Abundance Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.69 min Scan# 1141

Delta R.T. 0.00 min

Lab File: VY002881.D

Acq: 11 Jun 2020 10:43

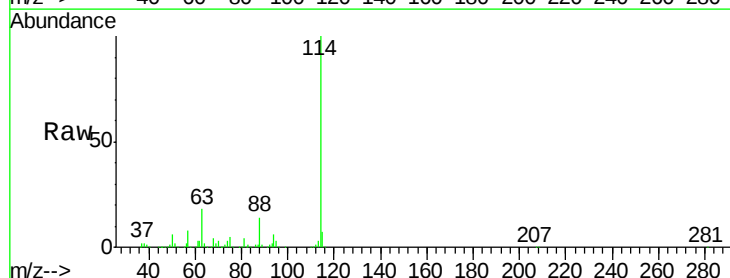
Tgt Ion: 114 Resp: 415151

Ion Ratio Lower Upper

114 100

63 18.2 0.0 35.2

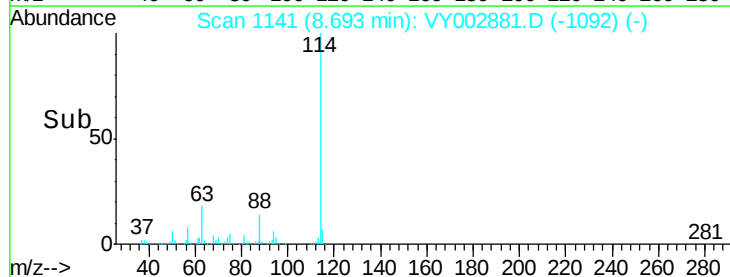
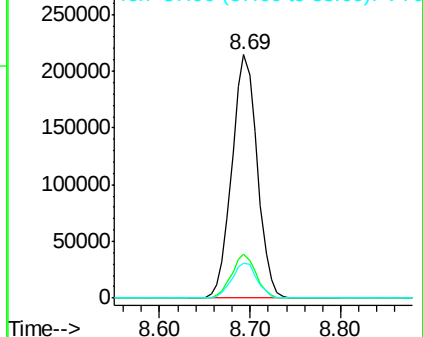
88 14.4 0.0 29.2

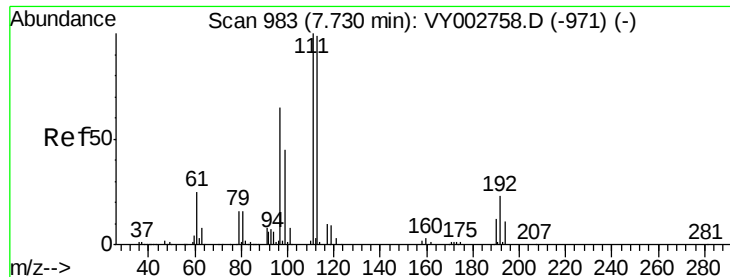


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0

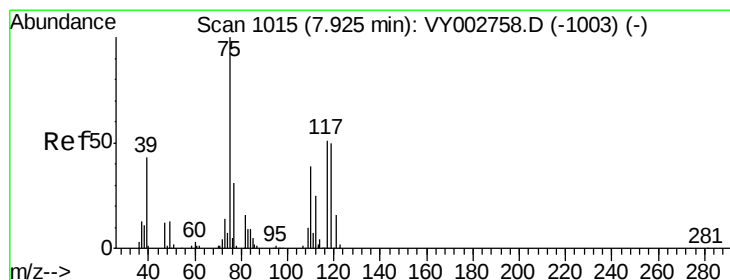
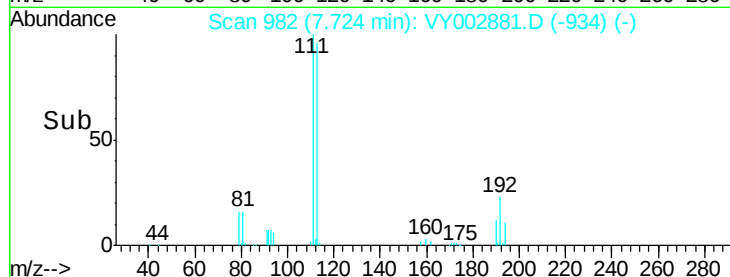
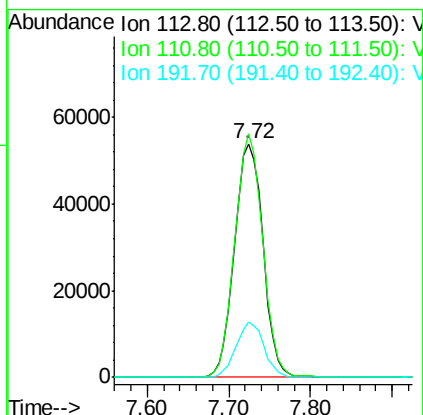
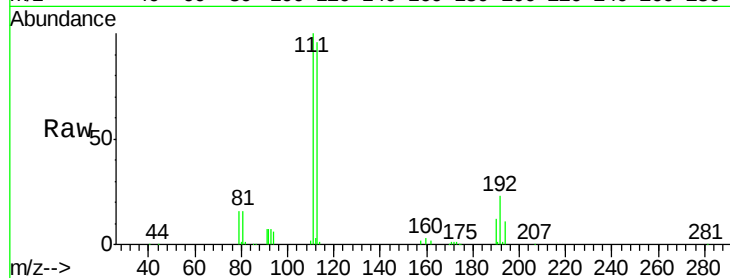




#35  
 Dibromofluoromethane  
 Concen: 53.56 ug/l  
 RT: 7.72 min Scan# 982  
 Delta R.T. -0.01 min  
 Lab File: VY002881.D  
 Acq: 11 Jun 2020 10:43

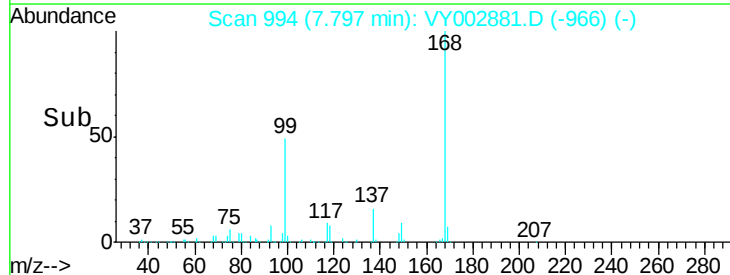
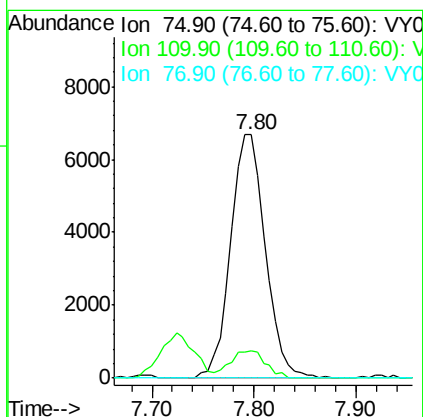
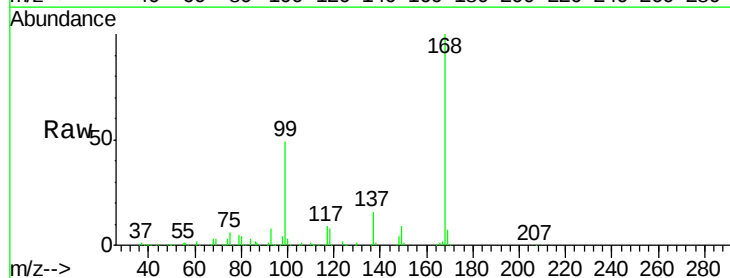
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0611SBL01

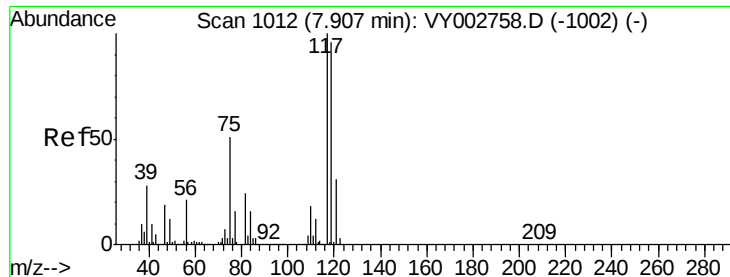
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.8 | 82.0  | 123.0 |
| 192     | 23.3  | 18.9  | 28.3  |



#36  
 1,1-Dichloropropene  
 Concen: 4.51 ug/l  
 RT: 7.80 min Scan# 994  
 Delta R.T. -0.13 min  
 Lab File: VY002881.D  
 Acq: 11 Jun 2020 10:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 11.5  | 19.3  | 57.9# |
| 77      | 0.0   | 24.8  | 37.2# |





#38

Carbon Tetrachloride

Concen: 5.94 ug/l

RT: 7.79 min Scan# 993

Delta R.T. -0.12 min

Lab File: VY002881.D

Acq: 11 Jun 2020 10:43

Instrument :

MSVOA\_Y

ClientSampleId :

VY0611SBL01

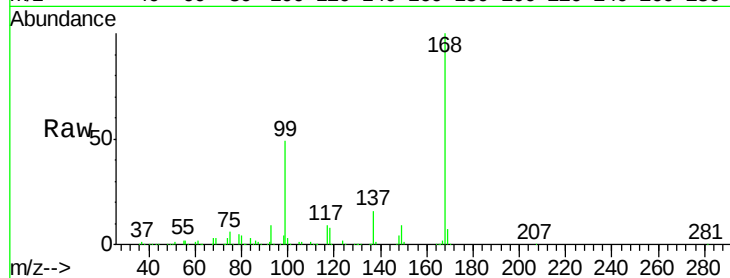
Tgt Ion:117 Resp: 23071

Ion Ratio Lower Upper

117 100

119 4.9 76.8 115.2#

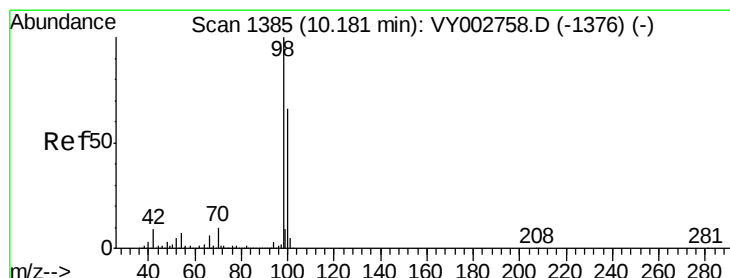
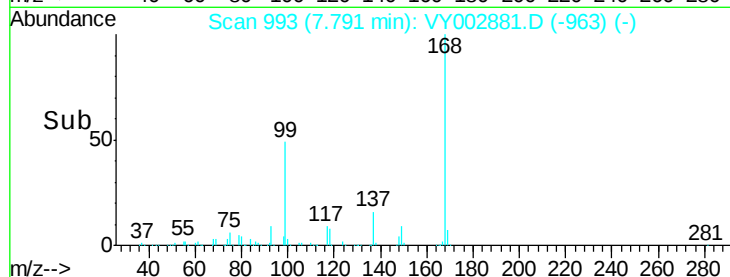
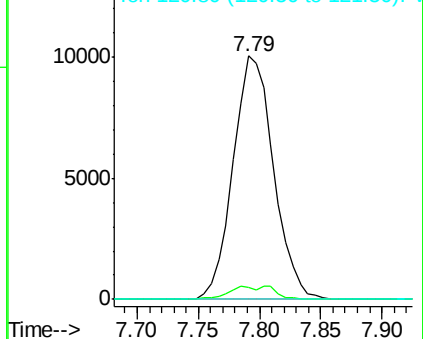
121 0.0 24.8 37.2#



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: 49.88 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. 0.00 min

Lab File: VY002881.D

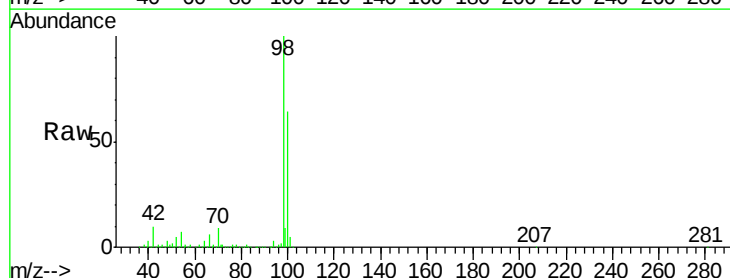
Acq: 11 Jun 2020 10:43

Tgt Ion: 98 Resp: 490718

Ion Ratio Lower Upper

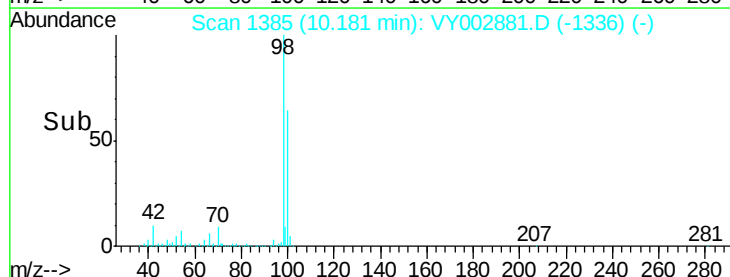
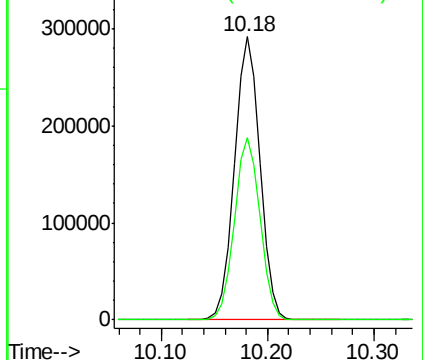
98 100

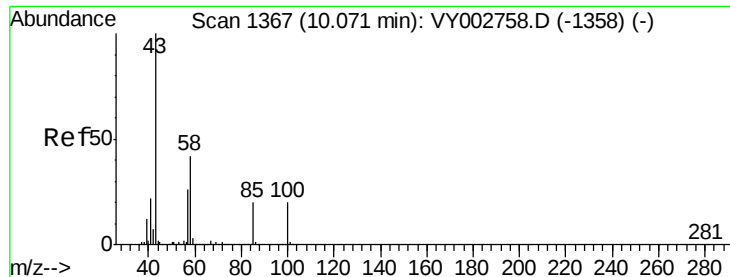
100 64.7 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY

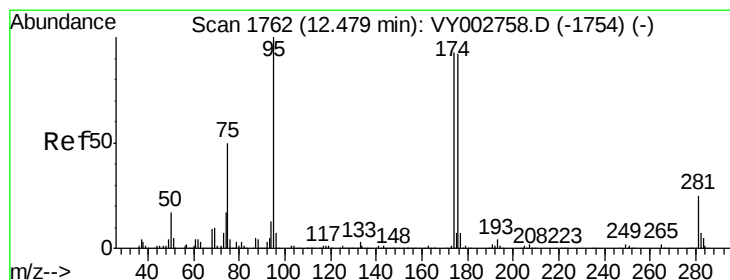
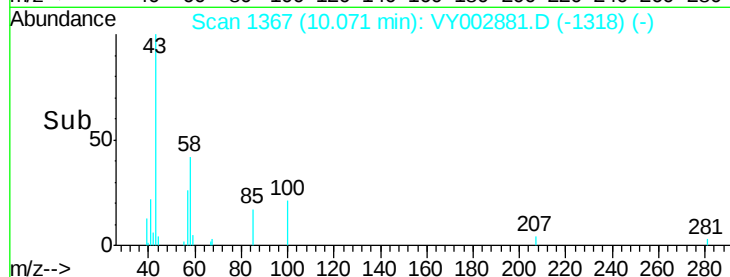
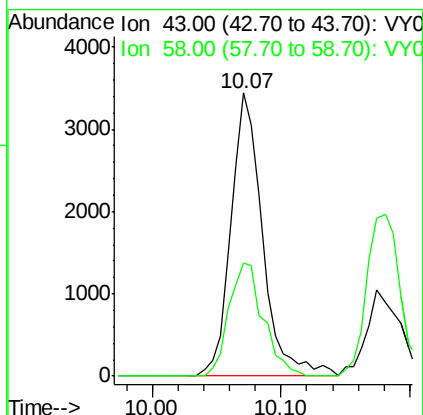
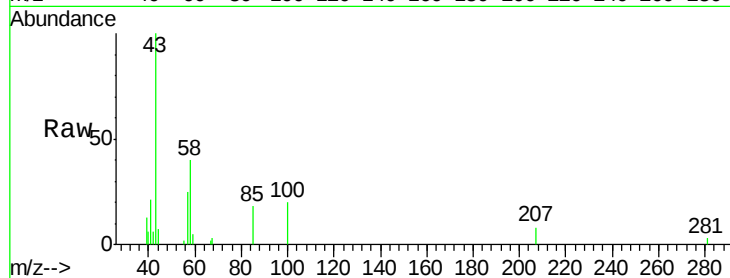




#51  
 4-Methyl-2-Pentanone  
 Concen: 3.09 ug/l  
 RT: 10.07 min Scan# 1367  
 Delta R.T. 0.00 min  
 Lab File: VY002881.D  
 Acq: 11 Jun 2020 10:43

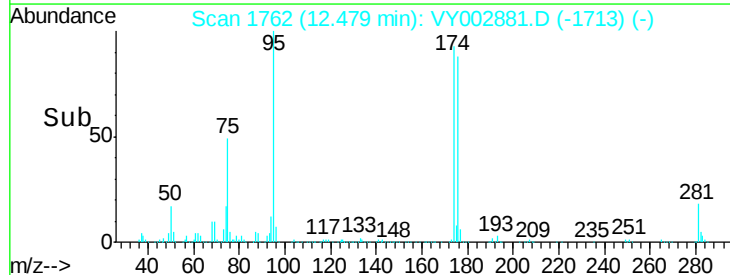
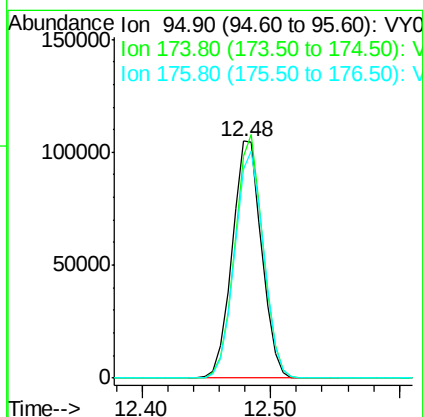
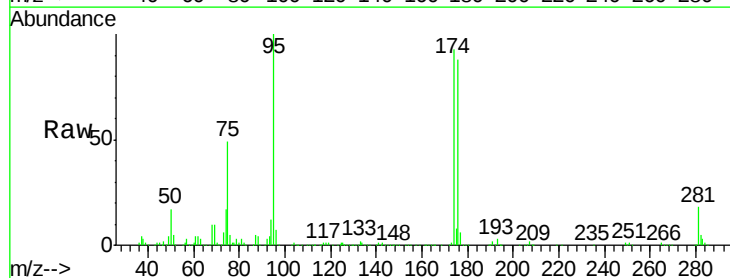
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0611SBL01

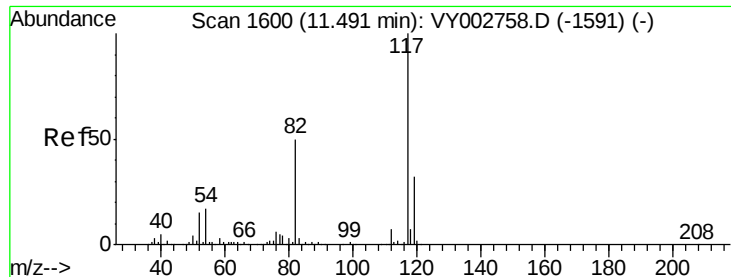
Tgt Ion: 43 Resp: 5894  
 Ion Ratio Lower Upper  
 43 100  
 58 43.3 34.2 51.2



#62  
 4-Bromofluorobenzene  
 Concen: 49.55 ug/l  
 RT: 12.48 min Scan# 1762  
 Delta R.T. 0.00 min  
 Lab File: VY002881.D  
 Acq: 11 Jun 2020 10:43

Tgt Ion: 95 Resp: 166582  
 Ion Ratio Lower Upper  
 95 100  
 174 97.7 0.0 191.2  
 176 93.8 0.0 188.8

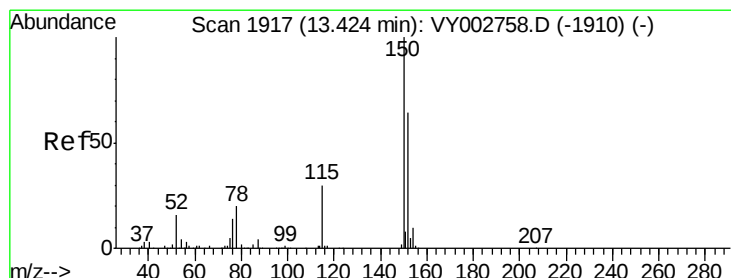
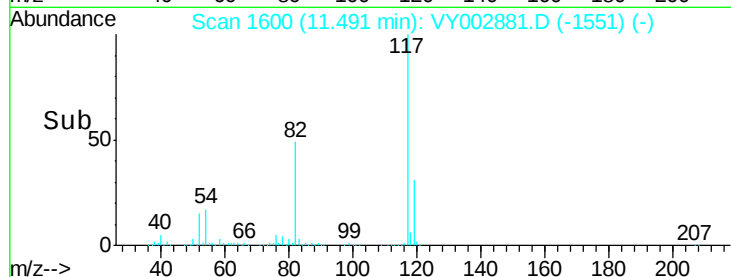
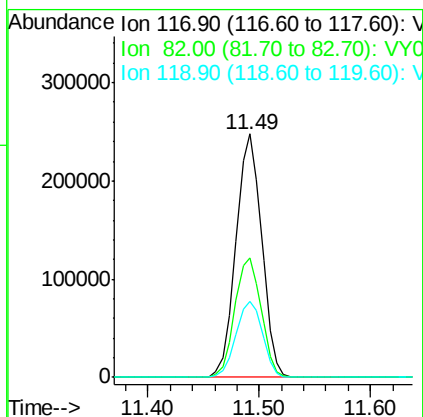
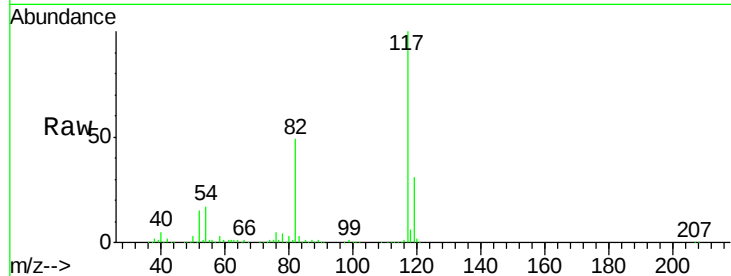




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.49 min Scan# 1600  
Delta R.T. 0.00 min  
Lab File: VY002881.D  
Acq: 11 Jun 2020 10:43

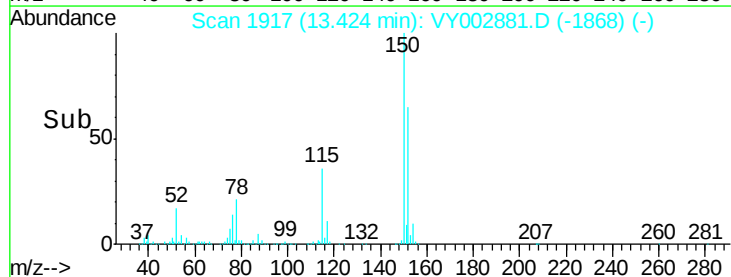
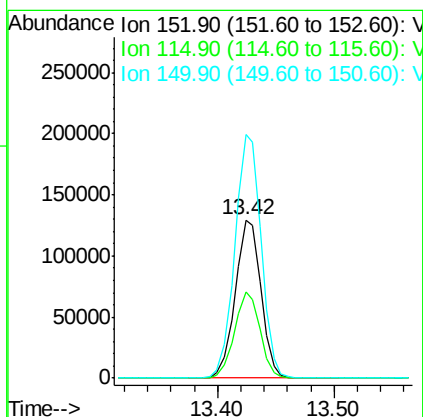
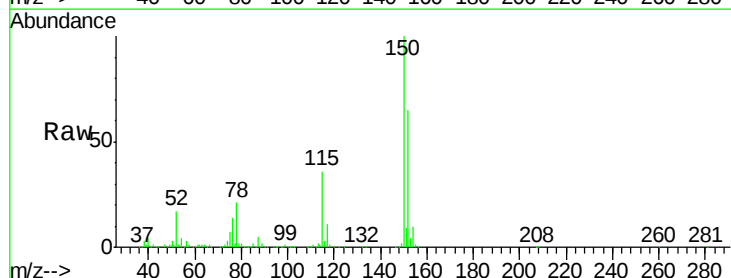
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY0611SBL01

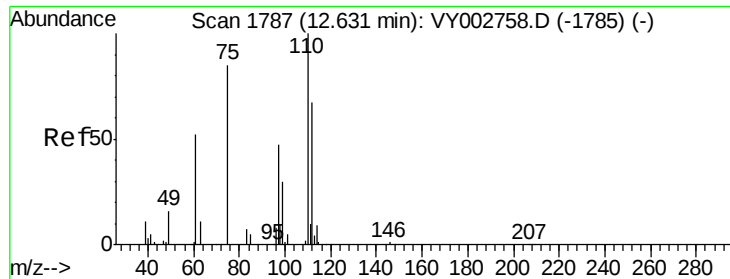
Tgt Ion:117 Resp: 396145  
Ion Ratio Lower Upper  
117 100  
82 49.2 40.2 60.4  
119 31.4 25.8 38.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.42 min Scan# 1917  
Delta R.T. 0.00 min  
Lab File: VY002881.D  
Acq: 11 Jun 2020 10:43

Tgt Ion:152 Resp: 198242  
Ion Ratio Lower Upper  
152 100  
115 54.0 27.0 81.0  
150 157.2 0.0 344.8





#76

1,2,3-Trichloropropane

Concen: 45.77 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY002881.D

Acq: 11 Jun 2020 10:43

Instrument :

MSVOA\_Y

ClientSampleId :

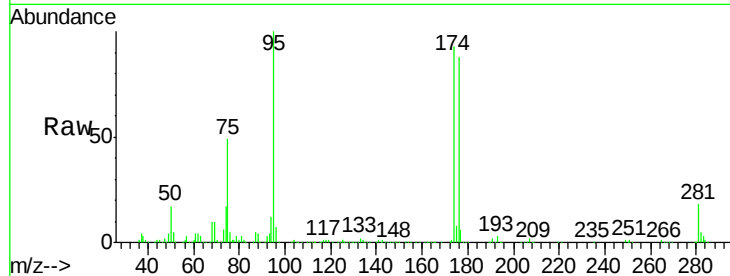
VY0611SBL01

Tgt Ion: 75 Resp: 81751

Ion Ratio Lower Upper

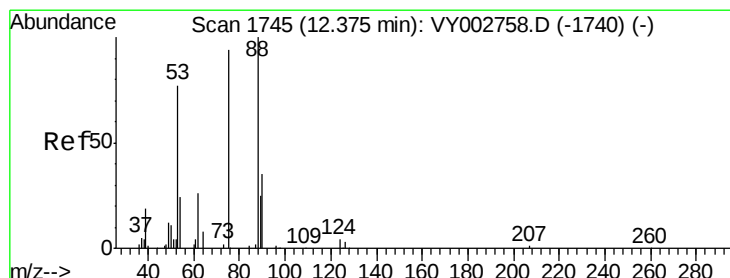
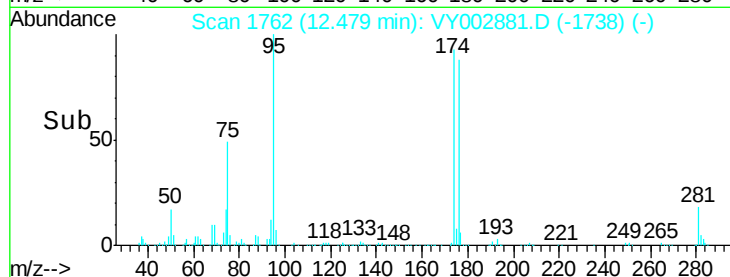
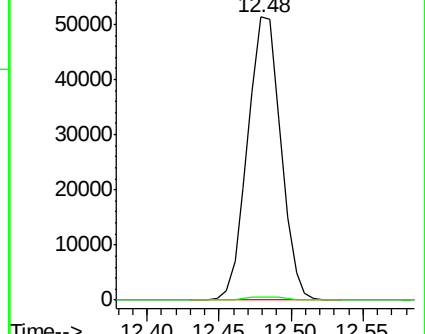
75 100

77 1.3 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: 86.22 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY002881.D

Acq: 11 Jun 2020 10:43

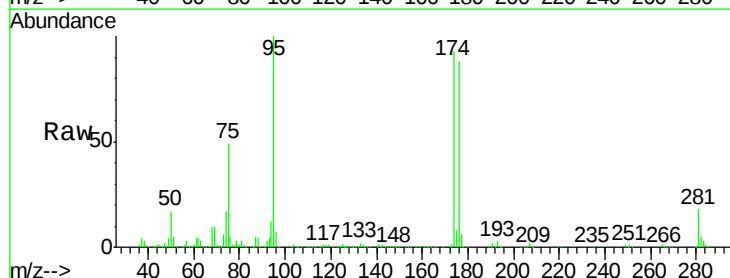
Tgt Ion: 75 Resp: 81751

Ion Ratio Lower Upper

75 100

53 0.0 64.0 96.0#

89 0.5 37.4 56.2#



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

