

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY070120\  
 Data File : VY003069.D  
 Acq On : 01 Jul 2020 19:23  
 Operator : SY/MD  
 Sample : L3172-23  
 Misc : 5.04G/5ML/MSVOA Y/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TP9-SS

Quant Time: Jul 02 03:20:51 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y062920S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 30 04:11:35 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 309909   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 500540   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 481306   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 254376   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.14  | 65   | 171733   | 55.79 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 111.58% |          |
| 35) Dibromofluoromethane    | 7.72  | 113  | 167131   | 53.53 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 107.06% |          |
| 50) Toluene-d8              | 10.18 | 98   | 598807   | 51.48 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 102.96% |          |
| 62) 4-Bromofluorobenzene    | 12.48 | 95   | 221554   | 54.11 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 108.22% |          |

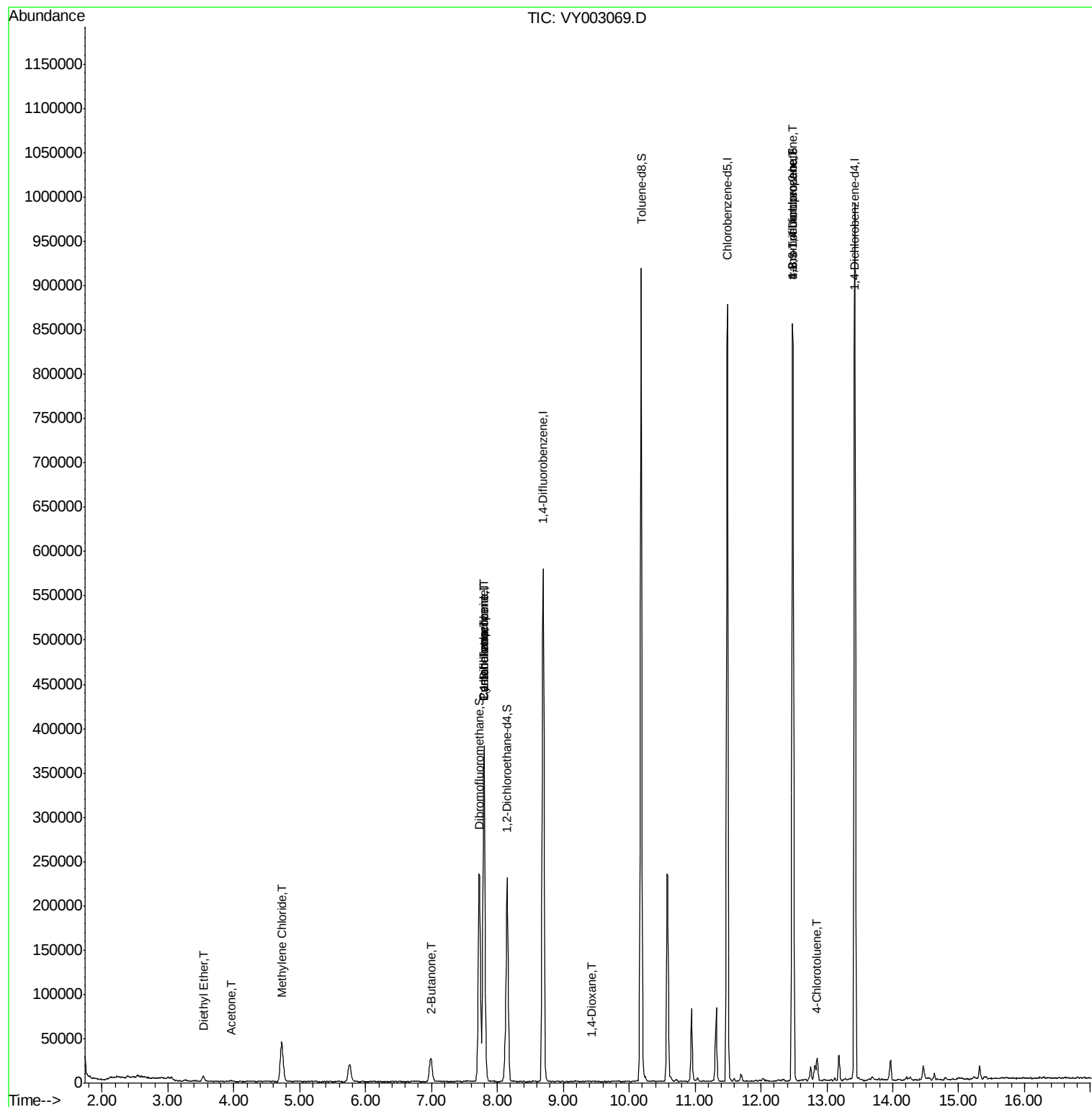
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 8) Diethyl Ether               | 3.53  | 74   | 3703     | 2.283  | ug/l   | 93     |
| 16) Acetone                    | 3.96  | 43   | 2335     | 3.217  | ug/l # | 82     |
| 20) Methylene Chloride         | 4.72  | 84   | 34351    | 4.222  | ug/l   | 88     |
| 25) 2-Butanone                 | 6.99  | 43   | 1878     | 1.629  | ug/l # | 65     |
| 31) Cyclohexane                | 7.80  | 56   | 6189     | 1.143  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.79  | 75   | 20920    | 4.339  | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.80  | 117  | 28573    | 5.696  | ug/l # | 17     |
| 49) 1,4-Dioxane                | 9.44  | 88   | 26       | 1.074  | ug/l # | 23     |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75   | 113970   | 45.270 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75   | 113970   | 88.077 | ug/l # | 12     |
| 82) 4-Chlorotoluene            | 12.86 | 91   | 13818    | 1.188  | ug/l   | 95     |

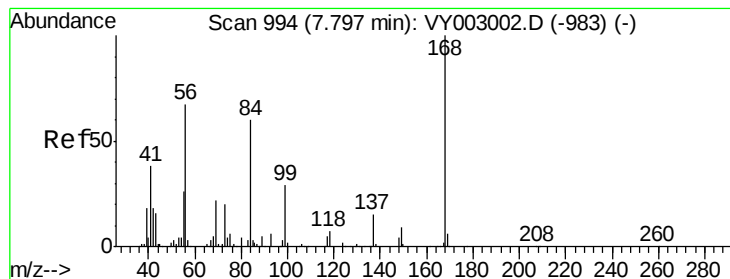
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY070120\  
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Instrument :  
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ClientSampleId :  
TP9-SS

Quant Time: Jul 02 03:20:51 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y062920S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 30 04:11:35 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: VY003069.D

Acq: 01 Jul 2020 19:23

Instrument :

MSVOA\_Y

ClientSampleId :

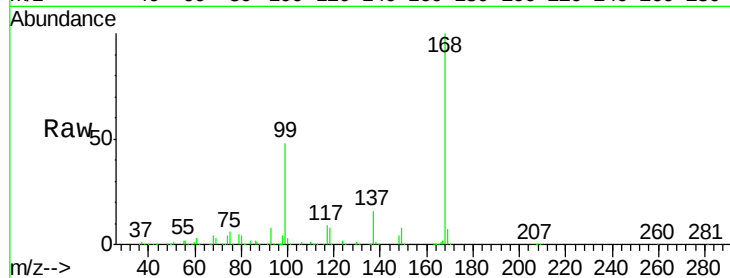
TP9-SS

Tot Ion:168 Resp: 309909

Ion Ratio Lower Upper

168 100

99 48.2 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): VY003002.D (-983) (-)

Ion 98.90 (98.60 to 99.60): VY003002.D (-983) (-)

7.80

150000

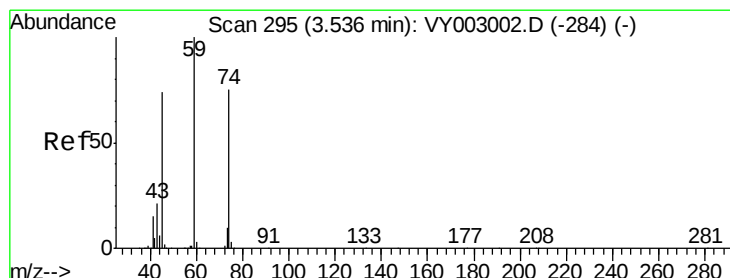
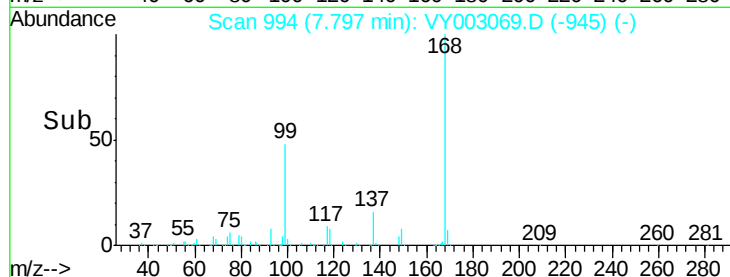
100000

50000

0

7.70 7.80 7.90

Time-->



#8

Diethyl Ether

Concen: 2.283 ug/l

RT: 3.53 min Scan# 294

Delta R.T. -0.01 min

Lab File: VY003069.D

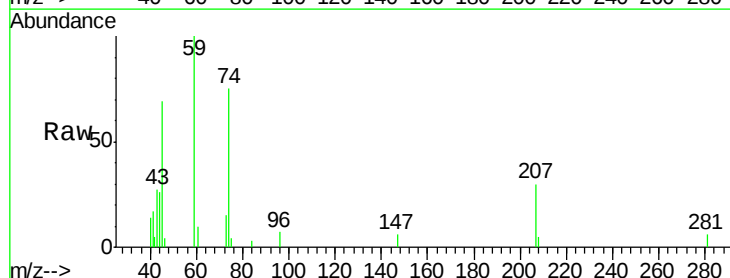
Acq: 01 Jul 2020 19:23

Tgt Ion: 74 Resp: 3703

Ion Ratio Lower Upper

74 100

45 105.0 49.3 147.9



Abundance Ion 74.00 (73.70 to 74.70): VY003002.D (-284) (-)

Ion 45.00 (44.70 to 45.70): VY003002.D (-284) (-)

3.53

2000

1500

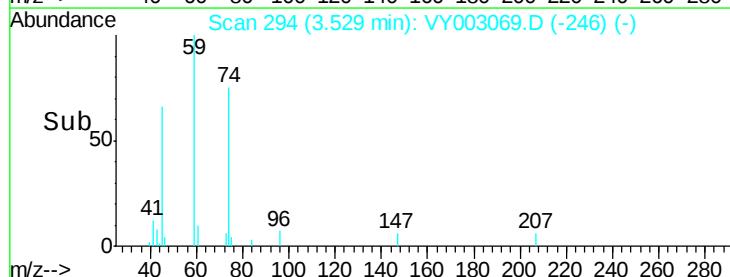
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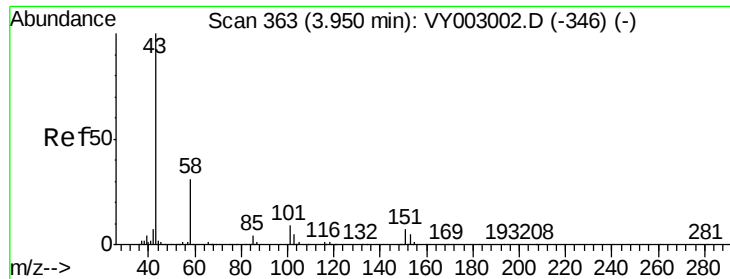
500

0

3.45 3.50 3.55 3.60

Time-->





#16

Acetone

Concen: 3.217 ug/l

RT: 3.96 min Scan# 365

Delta R.T. 0.01 min

Lab File: VY003069.D

Acq: 01 Jul 2020 19:23

Instrument :

MSVOA\_Y

ClientSampleId :

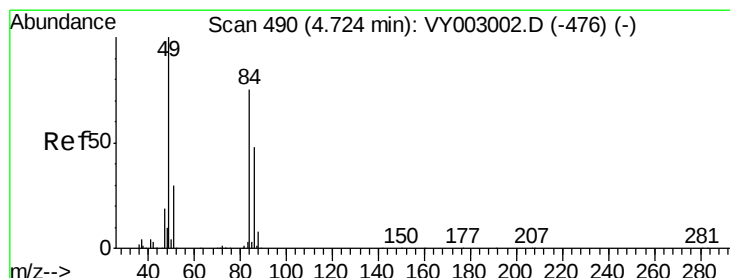
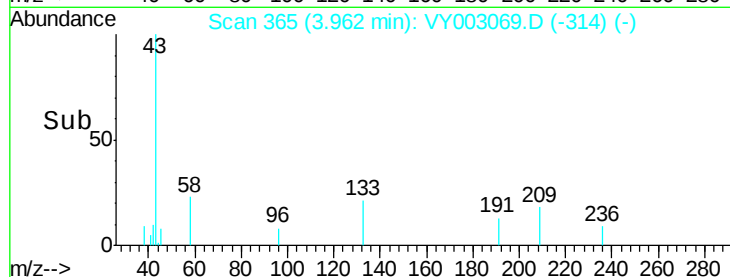
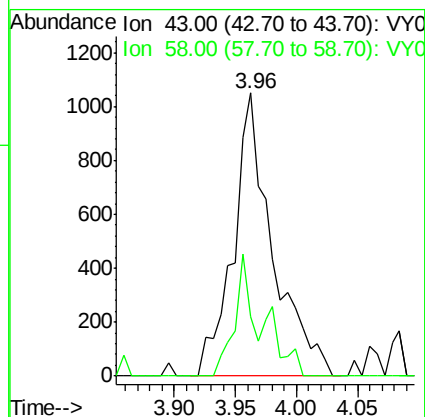
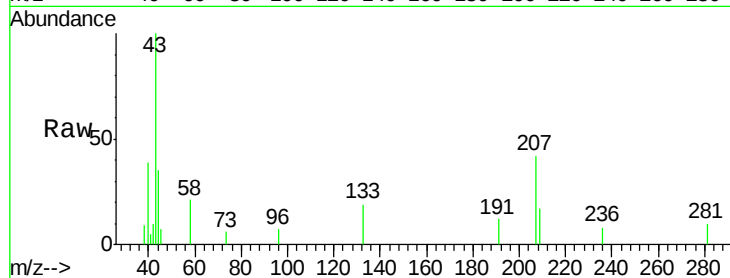
TP9-SS

Tot Ion: 43 Resp: 2335

Ion Ratio Lower Upper

43 100

58 21.1 24.7 37.1#



#20

Methylene Chloride

Concen: 4.222 ug/l

RT: 4.72 min Scan# 490

Delta R.T. 0.00 min

Lab File: VY003069.D

Acq: 01 Jul 2020 19:23

Tgt Ion: 84 Resp: 34351

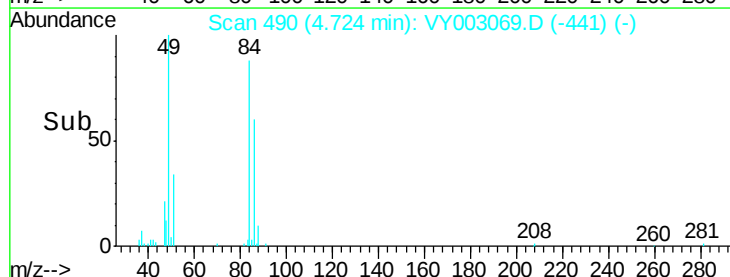
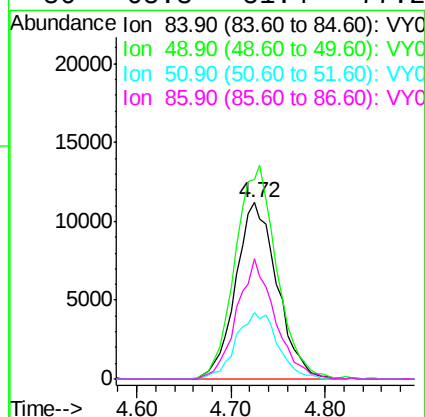
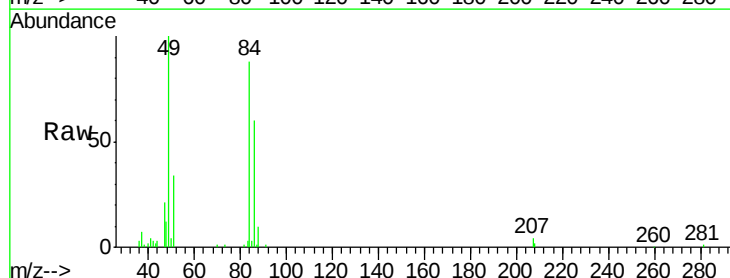
Ion Ratio Lower Upper

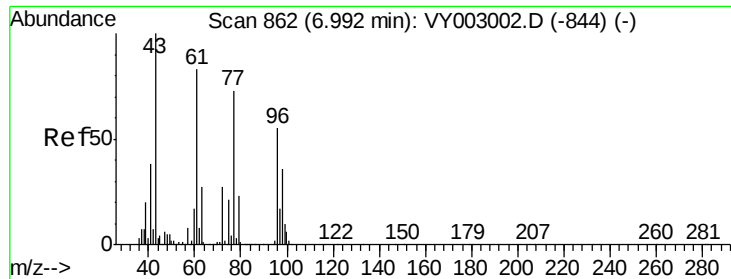
84 100

49 113.1 106.8 160.2

51 38.1 32.0 48.0

86 68.3 51.4 77.2

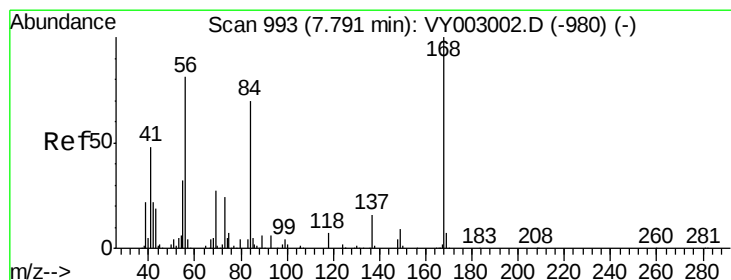
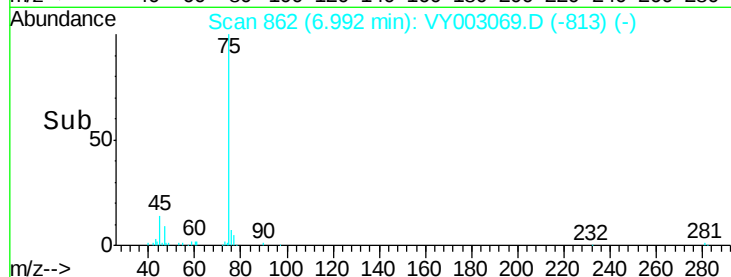
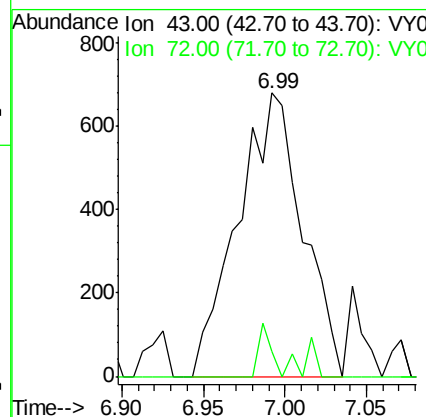
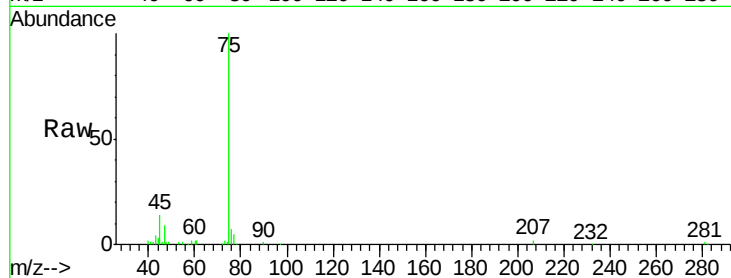




#25  
2-Butanone  
Concen: 1.629 ug/l  
RT: 6.99 min Scan# 862  
Delta R.T. -0.00 min  
Lab File: VY003069.D  
Acq: 01 Jul 2020 19:23

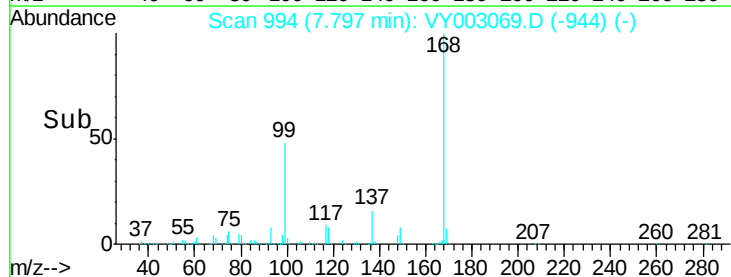
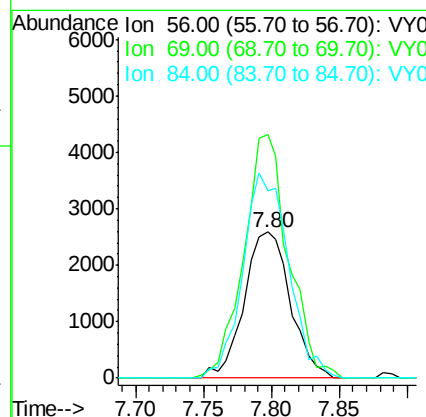
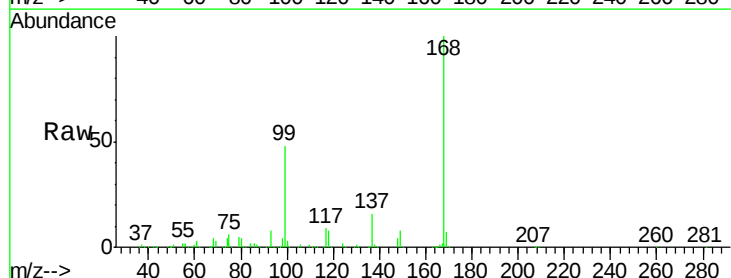
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP9-SS

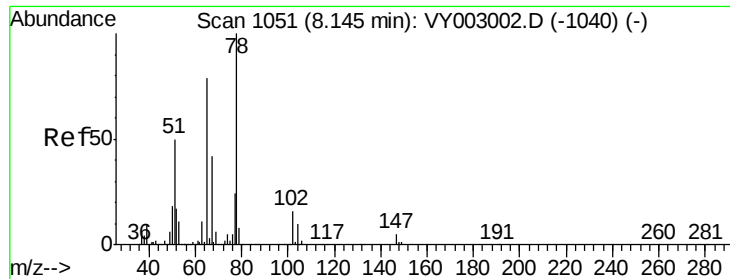
Tot Ion: 43 Resp: 1878  
Ion Ratio Lower Upper  
43 100  
72 8.7 21.4 32.0#



#31  
Cyclohexane  
Concen: 1.143 ug/l  
RT: 7.80 min Scan# 994  
Delta R.T. 0.01 min  
Lab File: VY003069.D  
Acq: 01 Jul 2020 19:23

Tgt Ion: 56 Resp: 6189  
Ion Ratio Lower Upper  
56 100  
69 166.7 27.0 40.4#  
84 127.9 68.1 102.1#

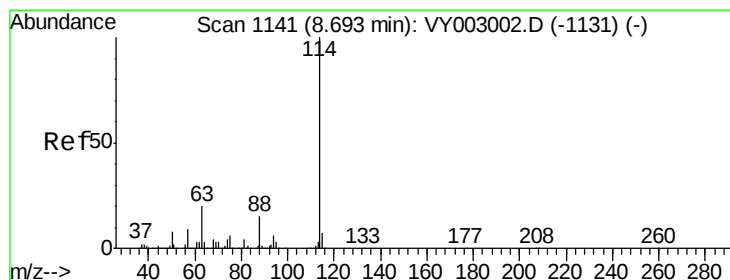
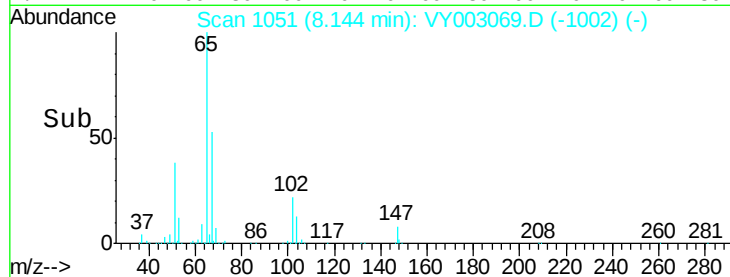
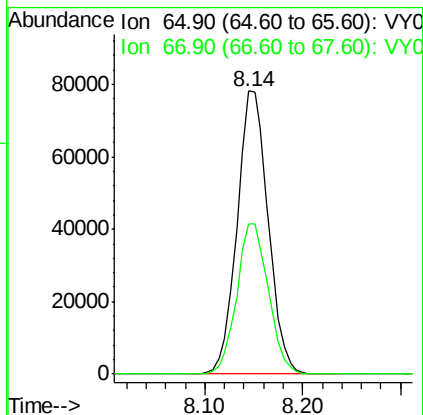
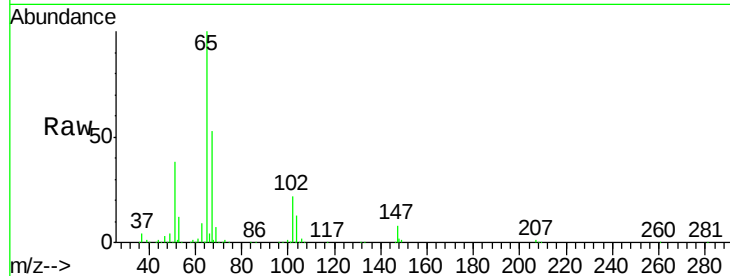




#33  
 1,2-Dichloroethane-d4  
 Concen: 55.793 ug/l  
 RT: 8.14 min Scan# 1051  
 Delta R.T. -0.00 min  
 Lab File: VY003069.D  
 Acq: 01 Jul 2020 19:23

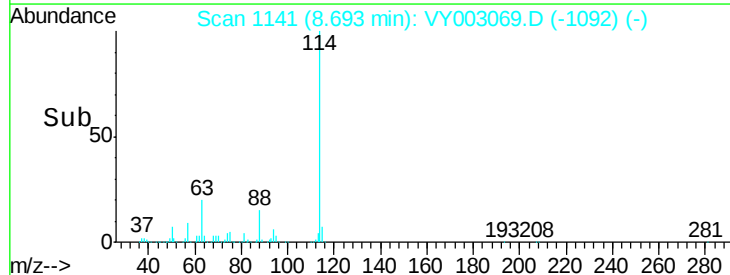
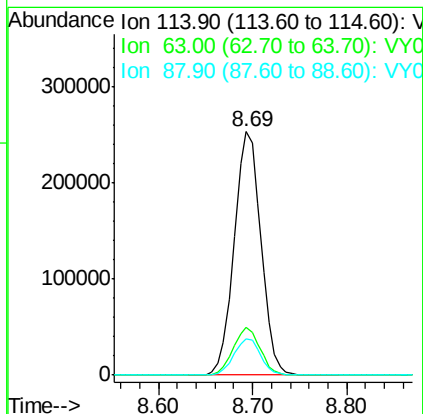
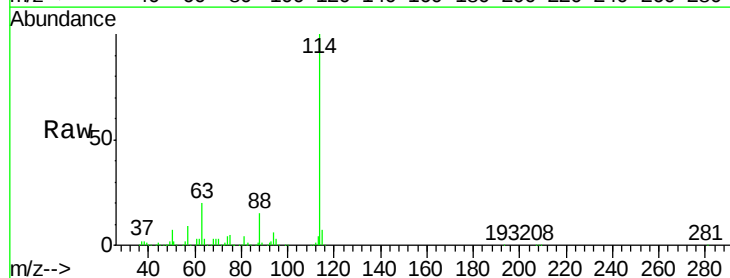
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TP9-SS

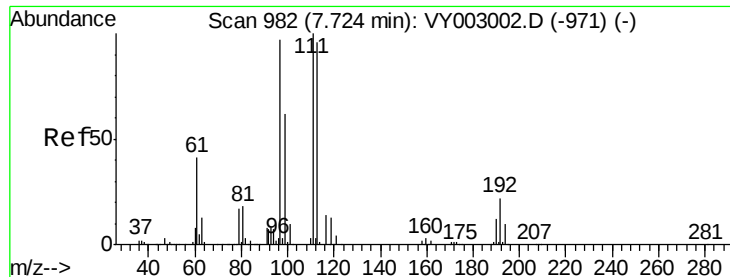
Tot Ion: 65 Resp: 171733  
 Ion Ratio Lower Upper  
 65 100  
 67 54.2 0.0 105.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.69 min Scan# 1141  
 Delta R.T. -0.00 min  
 Lab File: VY003069.D  
 Acq: 01 Jul 2020 19:23

Tgt Ion: 114 Resp: 500540  
 Ion Ratio Lower Upper  
 114 100  
 63 19.8 0.0 40.6  
 88 14.8 0.0 30.0

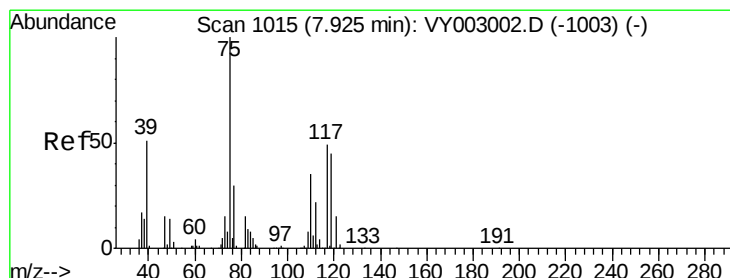
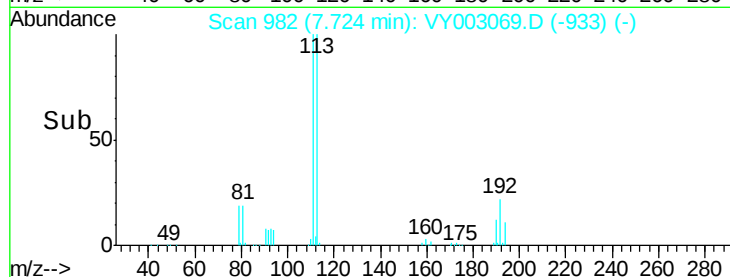
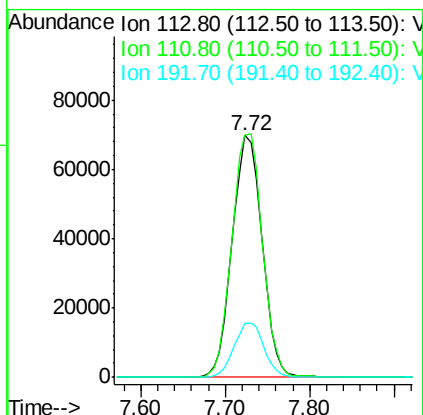
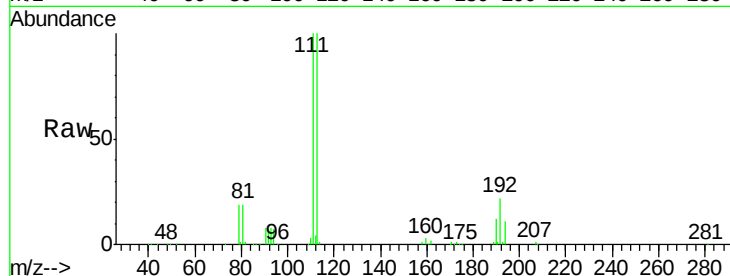




#35  
 Dibromofluoromethane  
 Concen: 53.526 ug/l  
 RT: 7.72 min Scan# 982  
 Delta R.T. -0.00 min  
 Lab File: VY003069.D  
 Acq: 01 Jul 2020 19:23

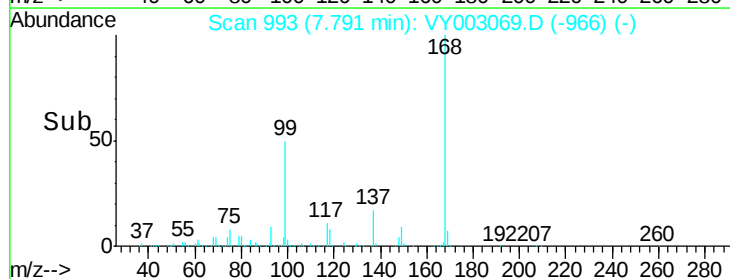
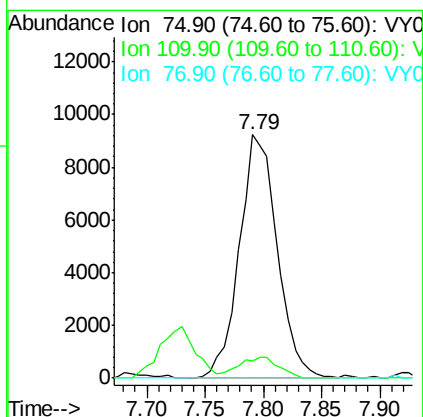
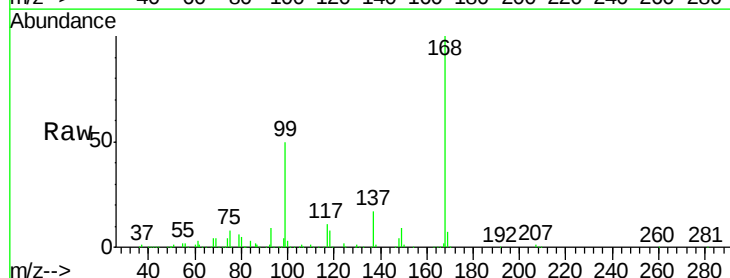
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TP9-SS

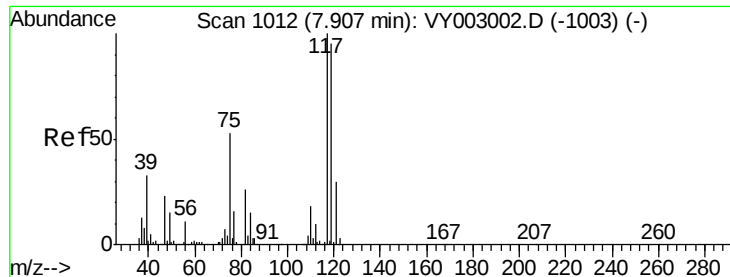
Tot Ion:113 Resp: 167131  
 Ion Ratio Lower Upper  
 113 100  
 111 102.6 82.6 123.8  
 192 22.4 18.1 27.1



#36  
 1,1-Dichloropropene  
 Concen: 4.339 ug/l  
 RT: 7.79 min Scan# 993  
 Delta R.T. -0.13 min  
 Lab File: VY003069.D  
 Acq: 01 Jul 2020 19:23

Tgt Ion: 75 Resp: 20920  
 Ion Ratio Lower Upper  
 75 100  
 110 9.1 17.1 51.2#  
 77 0.0 24.9 37.3#





#38

Carbon Tetrachloride

Concen: 5.696 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.11 min

Lab File: VY003069.D

Acq: 01 Jul 2020 19:23

Instrument :

MSVOA\_Y

ClientSampled :

TP9-SS

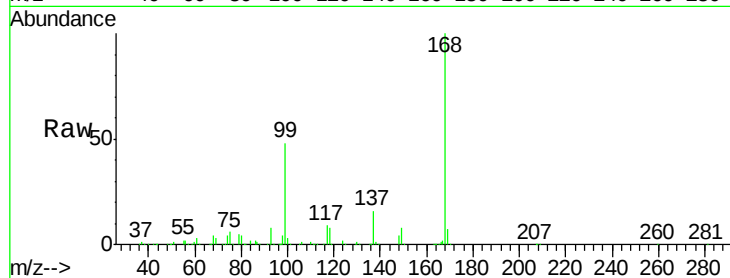
Tot Ion:117 Resp: 28573

Ion Ratio Lower Upper

117 100

119 5.1 75.7 113.5#

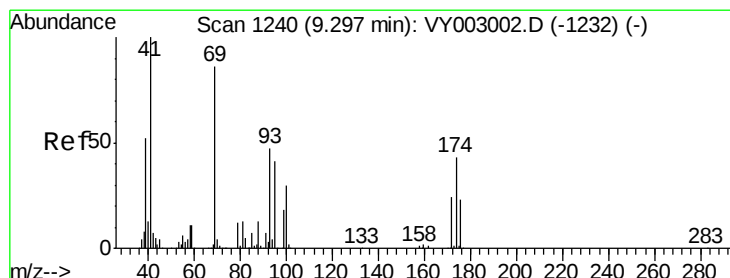
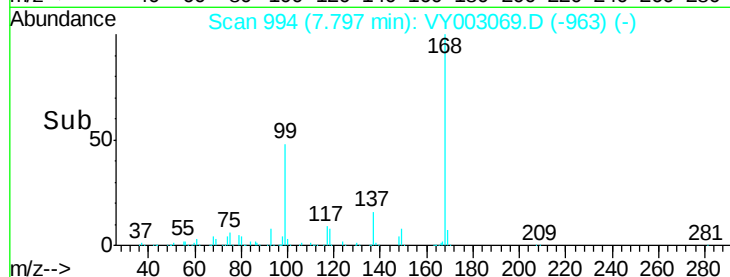
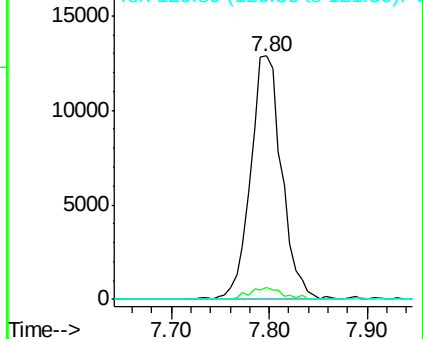
121 0.0 23.9 35.9#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 1.074 ug/l

RT: 9.44 min Scan# 1263

Delta R.T. 0.14 min

Lab File: VY003069.D

Acq: 01 Jul 2020 19:23

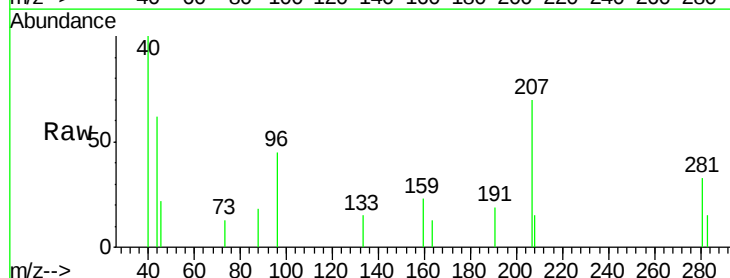
Tgt Ion: 88 Resp: 26

Ion Ratio Lower Upper

88 100

43 0.0 28.6 42.8#

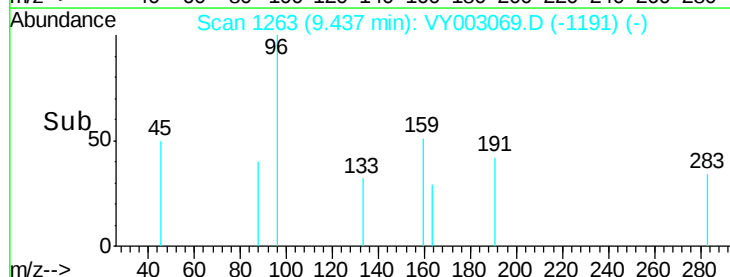
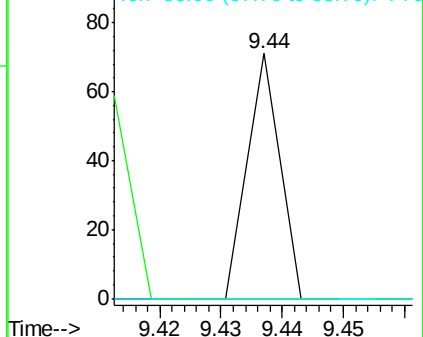
58 0.0 56.7 85.1#

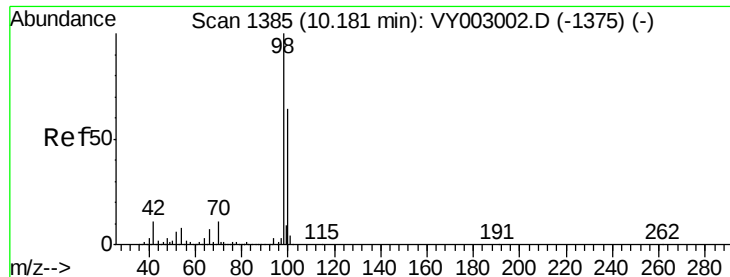


Abundance Ion 88.00 (87.70 to 88.70): VY0

Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0





#50

Toluene-d8

Concen: 51.477 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VY003069.D

Acq: 01 Jul 2020 19:23

Instrument :

MSVOA\_Y

ClientSampleId :

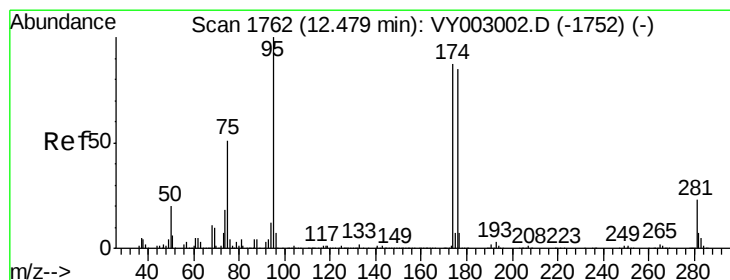
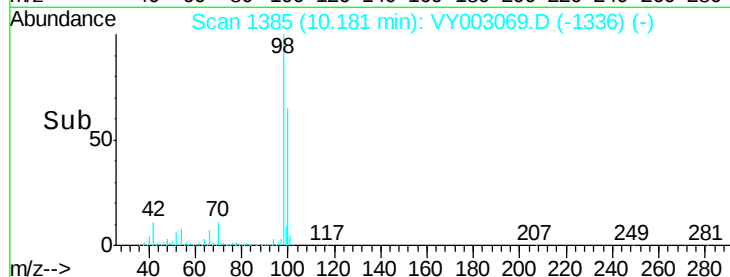
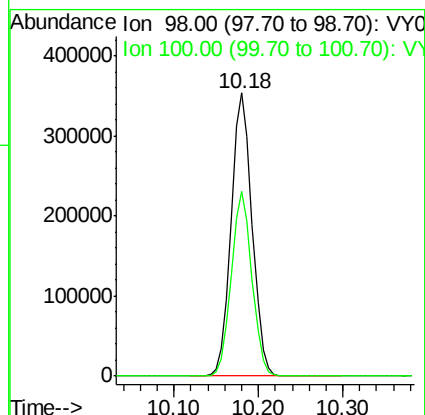
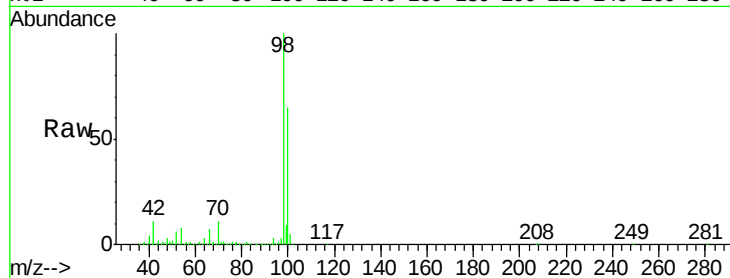
TP9-SS

Tot Ion: 98 Resp: 598807

Ion Ratio Lower Upper

98 100

100 64.1 51.1 76.7



#62

4-Bromofluorobenzene

Concen: 54.108 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.00 min

Lab File: VY003069.D

Acq: 01 Jul 2020 19:23

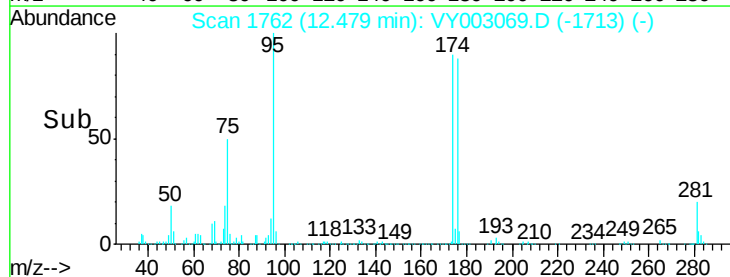
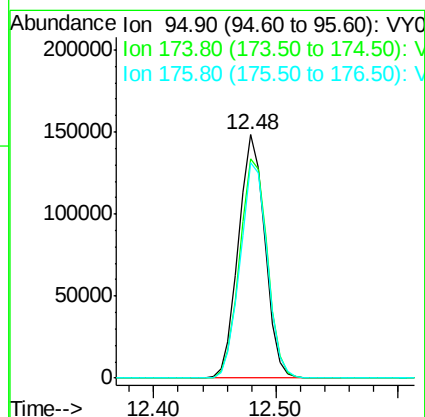
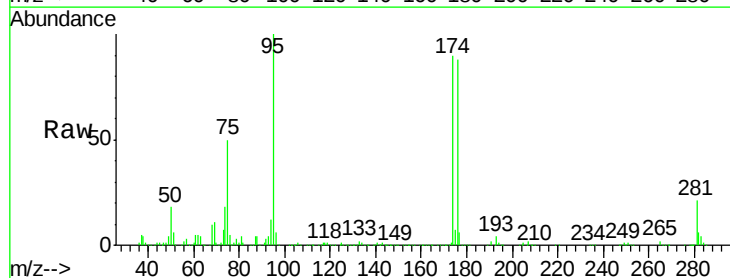
Tgt Ion: 95 Resp: 221554

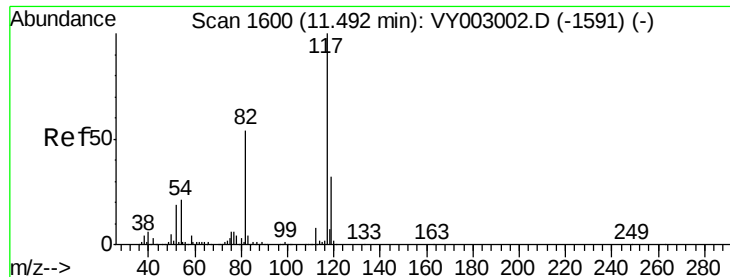
Ion Ratio Lower Upper

95 100

174 94.3 0.0 184.8

176 90.8 0.0 183.0

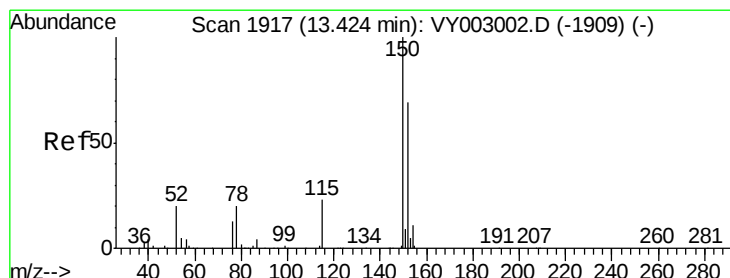
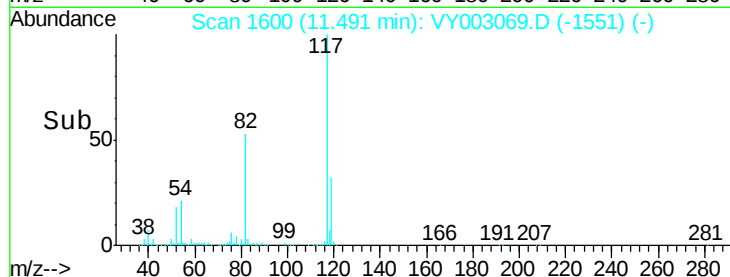
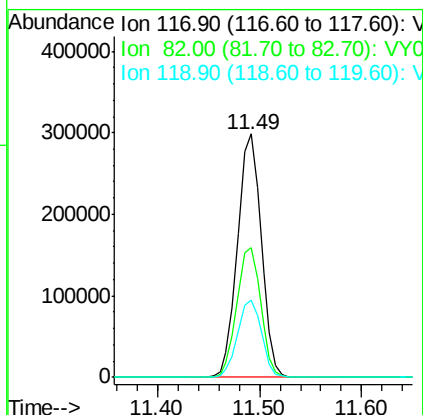
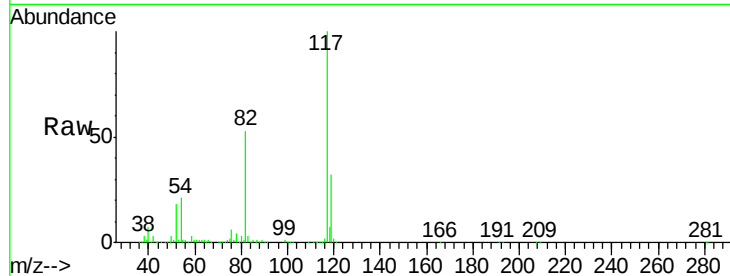




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VY003069.D  
Acq: 01 Jul 2020 19:23

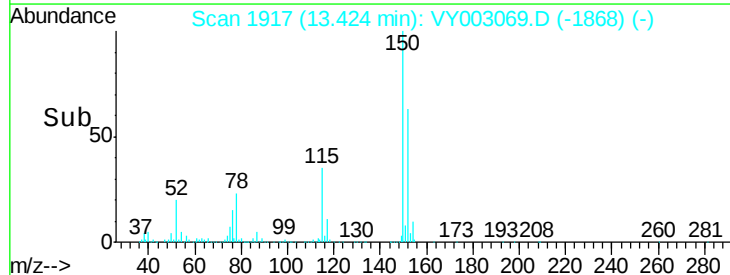
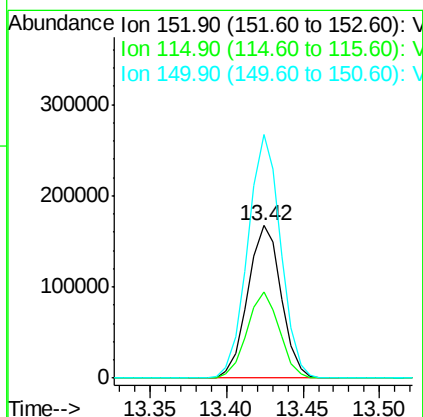
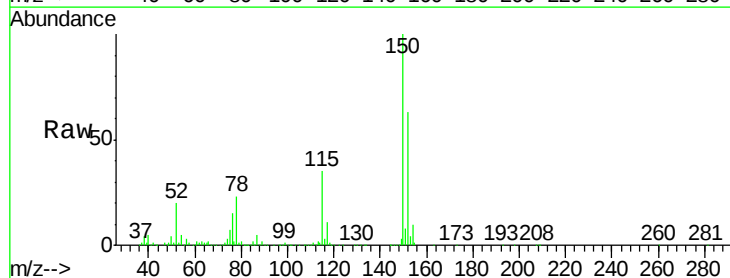
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP9-SS

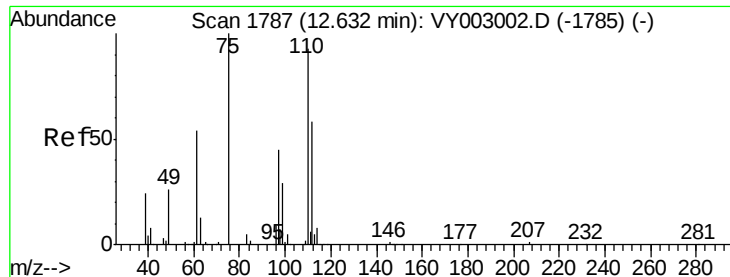
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 53.4  | 43.0  | 64.6  |
| 119     | 31.6  | 25.8  | 38.8  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1917  
Delta R.T. -0.00 min  
Lab File: VY003069.D  
Acq: 01 Jul 2020 19:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 54.9  | 27.3  | 81.9  |
| 150     | 156.7 | 0.0   | 343.4 |





#76

1,2,3-Trichloropropane

Concen: 45.270 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY003069.D

Acq: 01 Jul 2020 19:23

Instrument :

MSVOA\_Y

ClientSampleId :

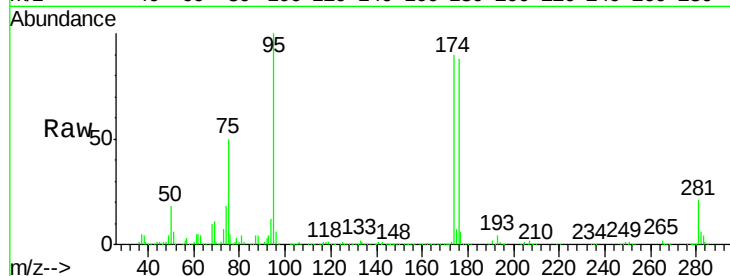
TP9-SS

Tot Ion: 75 Resp: 113970

Ion Ratio Lower Upper

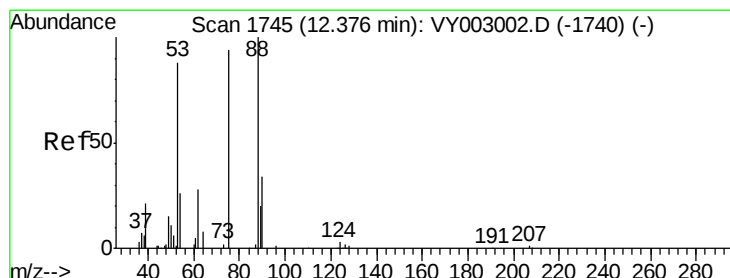
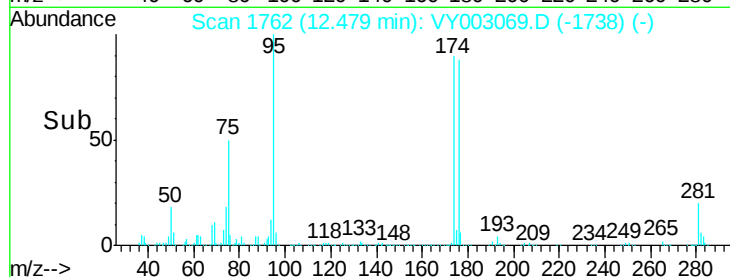
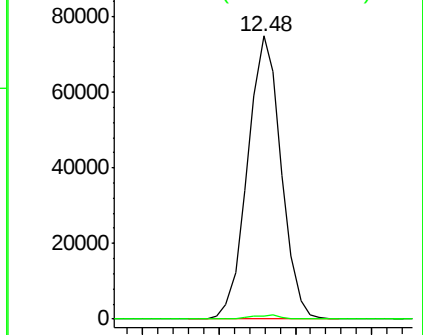
75 100

77 1.6 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: 88.077 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY003069.D

Acq: 01 Jul 2020 19:23

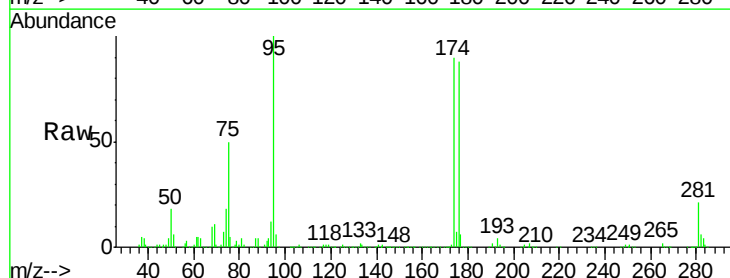
Tgt Ion: 75 Resp: 113970

Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

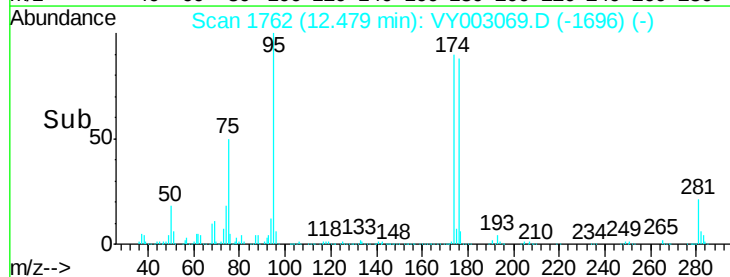
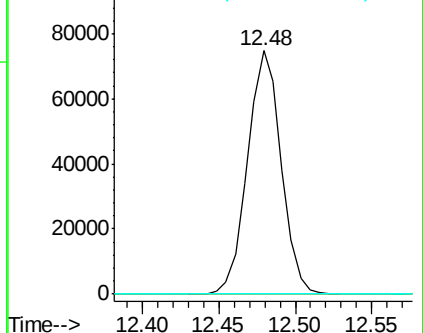
89 0.3 37.5 56.3#

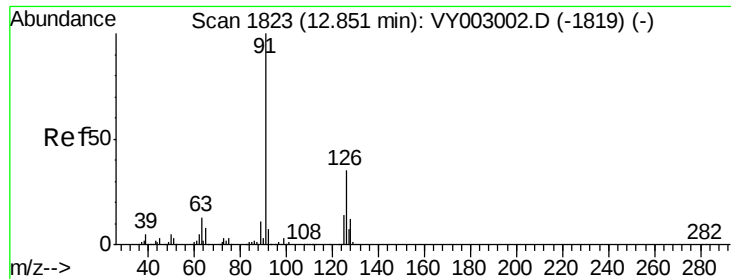


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0





#82  
 4-Chlorotoluene  
 Concen: 1.188 ug/l  
 RT: 12.86 min Scan# 1824  
 Delta R.T. 0.01 min  
 Lab File: VY003069.D  
 Acq: 01 Jul 2020 19:23

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TP9-SS

Tot Ion: 91 Resp: 13818  
 Ion Ratio Lower Upper  
 91 100  
 126 38.0 17.4 52.3

