

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY012320\  
 Data File : VY001355.D  
 Acq On : 23 Jan 2020 15:42  
 Operator : SY/MD  
 Sample : L1241-01  
 Misc : 7.36G/5ML/MSVOA Y/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 EP-9

Quant Time: Jan 24 07:08:24 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y012120S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 23 01:21:47 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.82  | 168  | 7152     | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.72  | 114  | 11669    | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.50 | 117  | 8689     | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.44 | 152  | 2763     | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.17  | 65   | 2944     | 37.83 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 75.66% |          |
| 35) Dibromofluoromethane    | 7.75  | 113  | 2664     | 38.90 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 77.80% |          |
| 50) Toluene-d8              | 10.20 | 98   | 13006    | 48.88 | ug/l   | 0.01     |
| Spiked Amount               |       |      | Recovery | =     | 97.76% |          |
| 62) 4-Bromofluorobenzene    | 12.49 | 95   | 3082     | 29.09 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 58.18% |          |

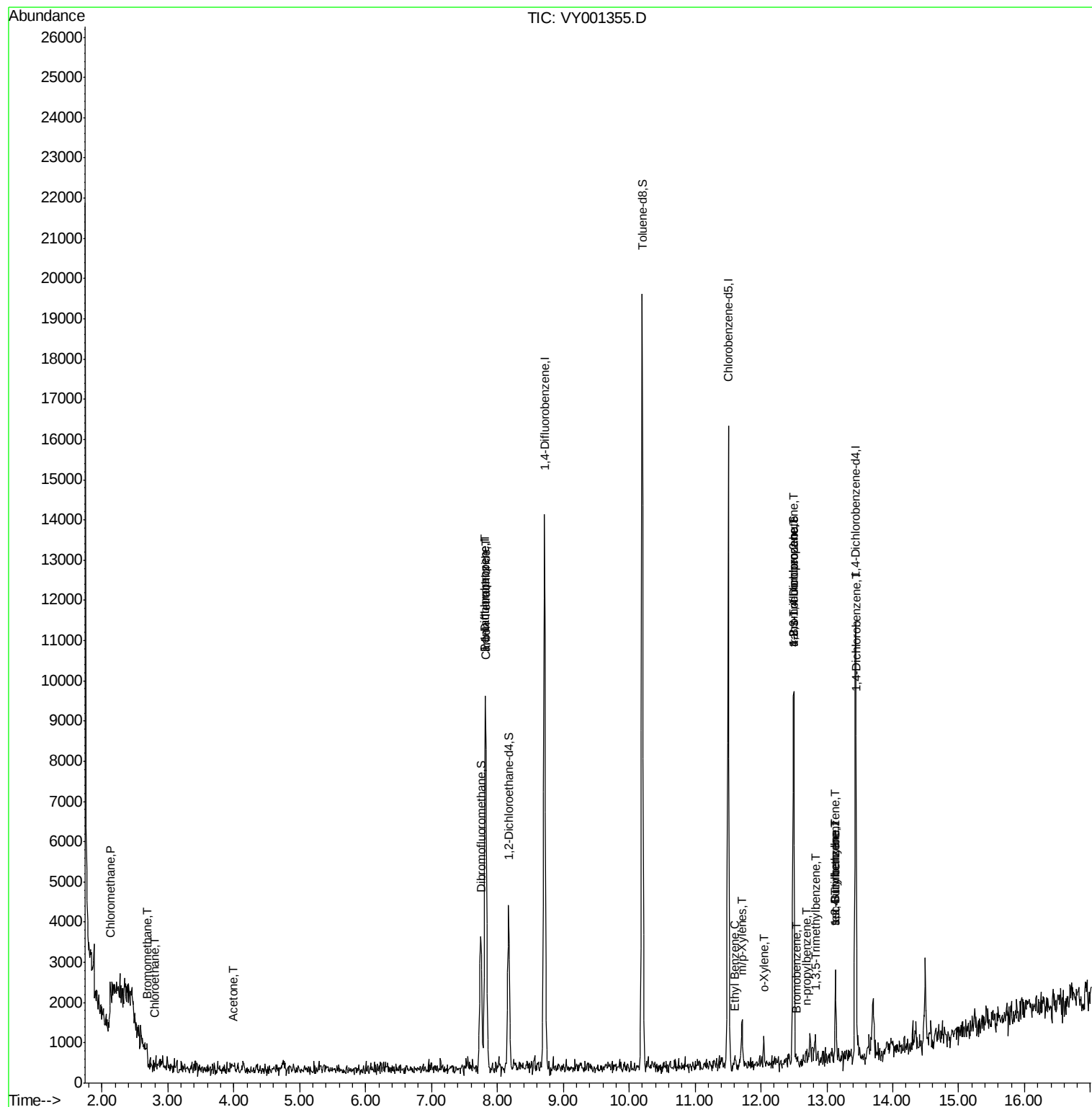
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 2.13  | 50   | 247      | 2.898     | ug/l # | 43     |
| 5) Bromomethane                | 2.69  | 94   | 135      | 2.255     | ug/l # | 3      |
| 6) Chloroethane                | 2.80  | 64   | 106      | 1.866     | ug/l # | 41     |
| 16) Acetone                    | 3.99  | 43   | 482      | 16.429    | ug/l # | 43     |
| 20) Methylene Chloride         | 4.75  | 84   | 82       | Below Cal | #      | 83     |
| 36) 1,1-Dichloropropene        | 7.82  | 75   | 572      | 5.189     | ug/l # | 41     |
| 38) Carbon Tetrachloride       | 7.83  | 117  | 850      | 8.651     | ug/l # | 12     |
| 67) Ethyl Benzene              | 11.60 | 91   | 345      | 1.022     | ug/l # | 43     |
| 68) m/p-Xylenes                | 11.71 | 106  | 435      | 3.451     | ug/l   | 83     |
| 69) o-Xylene                   | 12.04 | 106  | 133      | 1.097     | ug/l   | 64     |
| 76) 1,2,3-Trichloropropane     | 12.49 | 75   | 1627     | 48.867    | ug/l # | 100    |
| 77) Bromobenzene               | 12.54 | 156  | 63       | 1.305     | ug/l # | 1      |
| 78) n-propylbenzene            | 12.68 | 91   | 270      | 1.029     | ug/l # | 68     |
| 80) 1,3,5-Trimethylbenzene     | 12.83 | 105  | 423      | 2.324     | ug/l   | 98     |
| 81) trans-1,4-Dichloro-2-buten | 12.49 | 75   | 1627     | 92.476    | ug/l # | 14     |
| 83) tert-Butylbenzene          | 13.13 | 119  | 183      | 1.193     | ug/l # | 51     |
| 84) 1,2,4-Trimethylbenzene     | 13.13 | 105  | 1283     | 7.022     | ug/l   | 98     |
| 85) sec-Butylbenzene           | 13.13 | 105  | 1283     | 5.887     | ug/l # | 57     |
| 88) 1,4-Dichlorobenzene        | 13.45 | 146  | 122      | 1.292     | ug/l # | 38     |

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

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Quant Time: Jan 24 07:08:24 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y012120S.M  
Quant Title : SW846 8260  
QLast Update : Thu Jan 23 01:21:47 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.82 min Scan# 997

Delta R.T. -0.01 min

Lab File: VY001355.D

Acq: 23 Jan 2020 15:42

Instrument :

MSVOA\_Y

ClientSampleId :

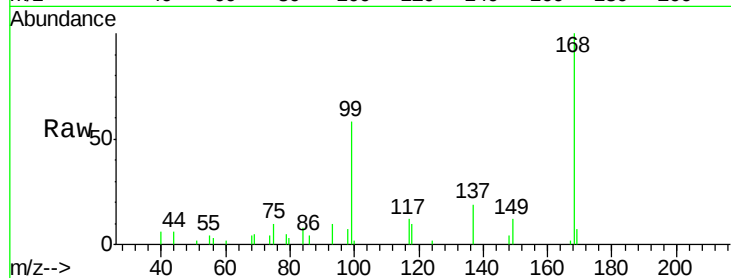
EP-9

Tot Ion:168 Resp: 7152

Ion Ratio Lower Upper

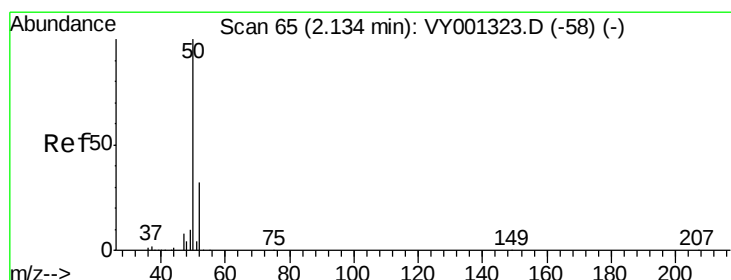
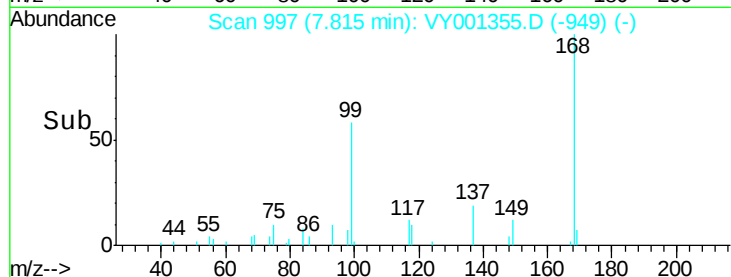
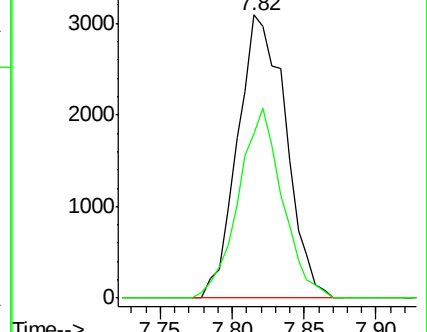
168 100

99 58.2 44.3 66.5



Abundance Ion 167.90 (167.60 to 168.60): VY001323.D (-987) (-)

Ion 98.90 (98.60 to 99.60): VY001323.D (-987) (-)



#3

Chloromethane

Concen: 2.898 ug/l

RT: 2.13 min Scan# 64

Delta R.T. -0.01 min

Lab File: VY001355.D

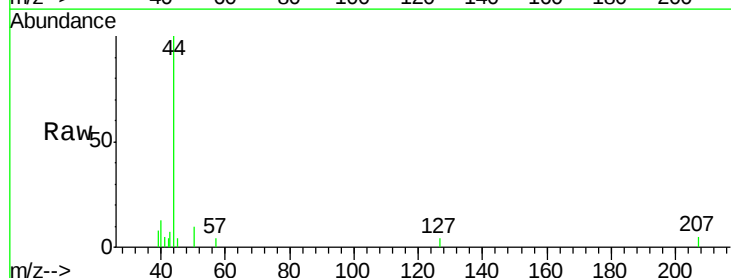
Acq: 23 Jan 2020 15:42

Tgt Ion: 50 Resp: 247

Ion Ratio Lower Upper

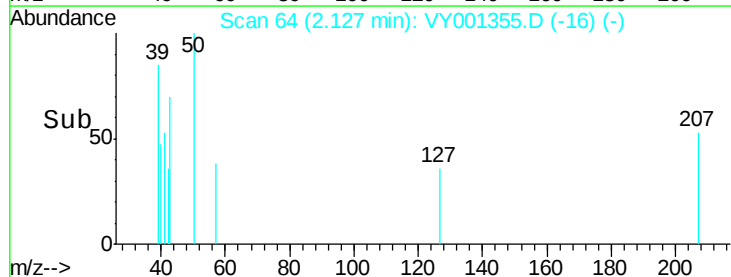
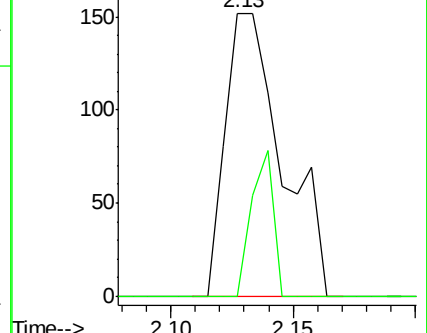
50 100

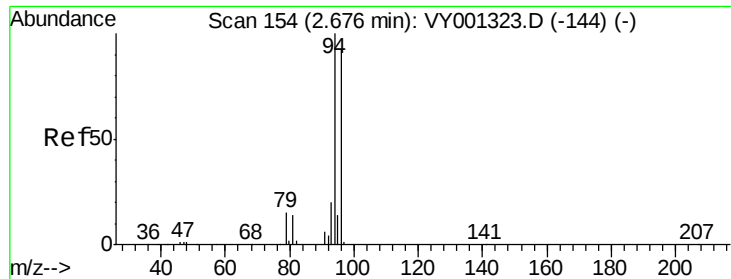
52 0.0 25.7 38.5#



Abundance Ion 49.90 (49.60 to 50.60): VY001323.D (-58) (-)

Ion 51.90 (51.60 to 52.60): VY001323.D (-58) (-)





#5

Bromomethane

Concen: 2.255 ug/l

RT: 2.69 min Scan# 156

Delta R.T. 0.01 min

Lab File: VY001355.D

Acq: 23 Jan 2020 15:42

Instrument :

MSVOA\_Y

ClientSampled :

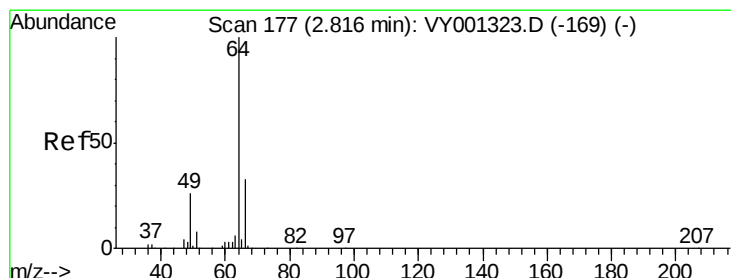
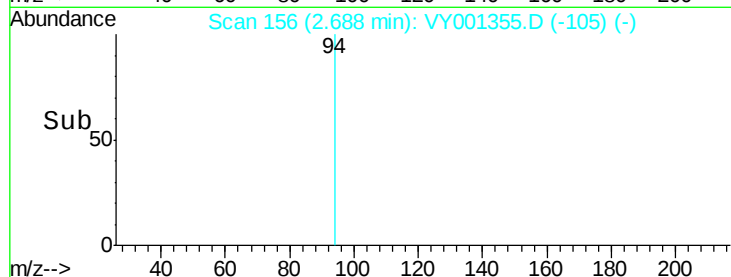
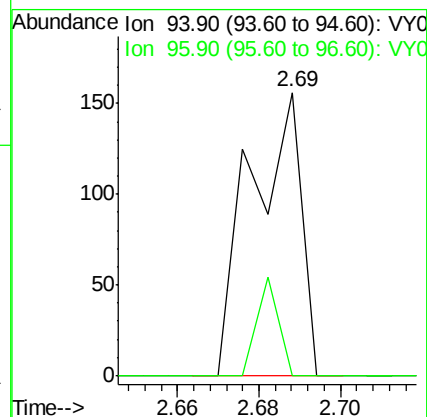
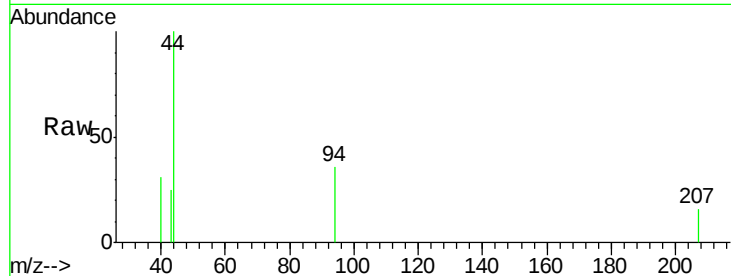
EP-9

Tot Ion: 94 Resp: 135

Ion Ratio Lower Upper

94 100

96 0.0 74.6 111.8#



#6

Chloroethane

Concen: 1.866 ug/l

RT: 2.80 min Scan# 175

Delta R.T. -0.01 min

Lab File: VY001355.D

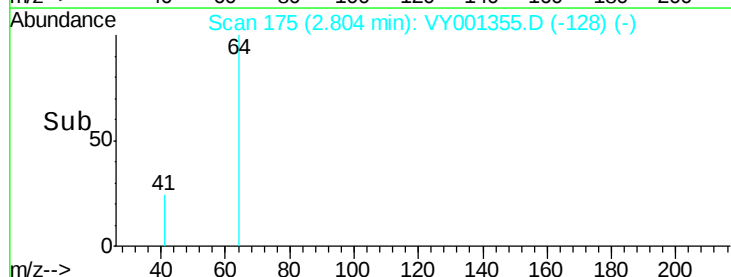
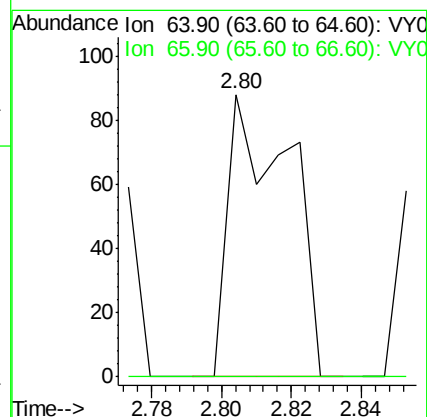
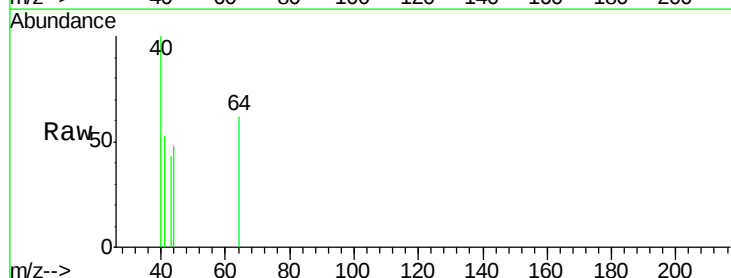
Acq: 23 Jan 2020 15:42

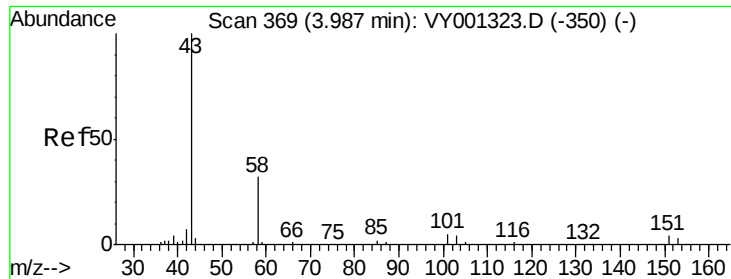
Tgt Ion: 64 Resp: 106

Ion Ratio Lower Upper

64 100

66 0.0 26.8 40.2#





#16

Acetone

Concen: 16.429 ug/l

RT: 3.99 min Scan# 370

Delta R.T. 0.01 min

Lab File: VY001355.D

Acq: 23 Jan 2020 15:42

Instrument :

MSVOA\_Y

ClientSampled :

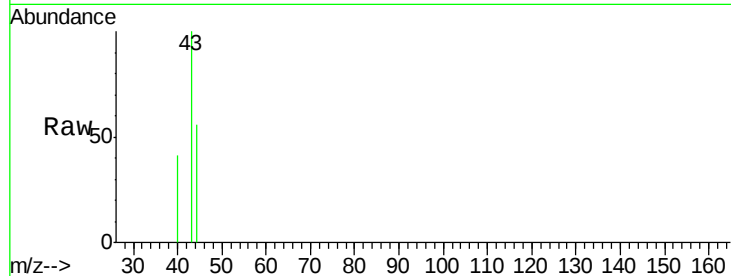
EP-9

Tot Ion: 43 Resp: 482

Ion Ratio Lower Upper

43 100

58 0.0 25.4 38.0#



Abundance Ion 43.00 (42.70 to 43.70): VY001323.D (-350) (-)

Ion 58.00 (57.70 to 58.70): VY001323.D (-350) (-)

3.99

200

150

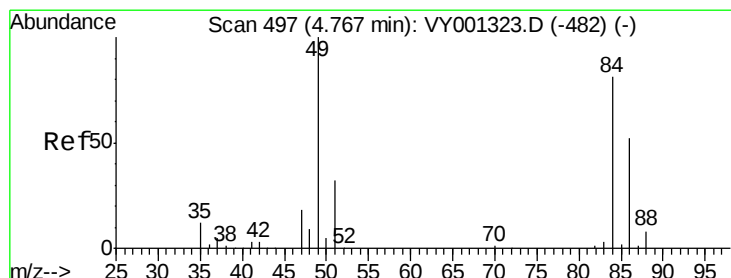
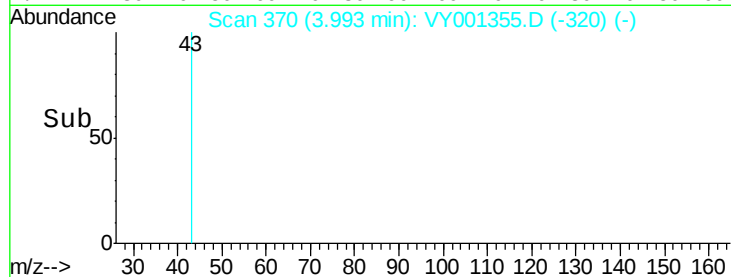
100

50

0

3.95 4.00

Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 4.75 min Scan# 494

Delta R.T. -0.02 min

Lab File: VY001355.D

Acq: 23 Jan 2020 15:42

Tgt Ion: 84 Resp: 82

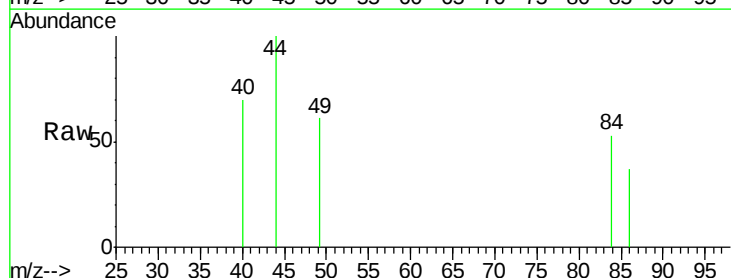
Ion Ratio Lower Upper

84 100

49 116.1 98.3 147.5

51 0.0 31.6 47.4#

86 69.9 51.1 76.7



Abundance Ion 83.90 (83.60 to 84.60): VY001323.D (-482) (-)

Ion 48.90 (48.60 to 49.60): VY001323.D (-482) (-)

Ion 50.90 (50.60 to 51.60): VY001323.D (-482) (-)

Ion 85.90 (85.60 to 86.60): VY001323.D (-482) (-)

150

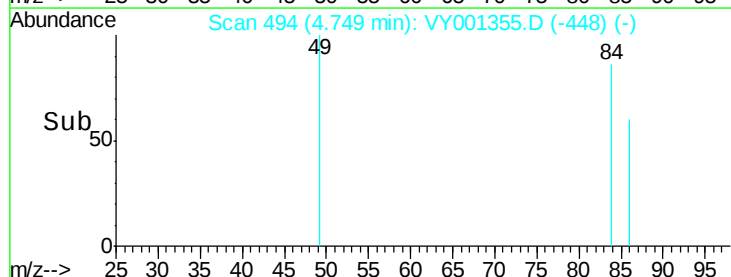
100

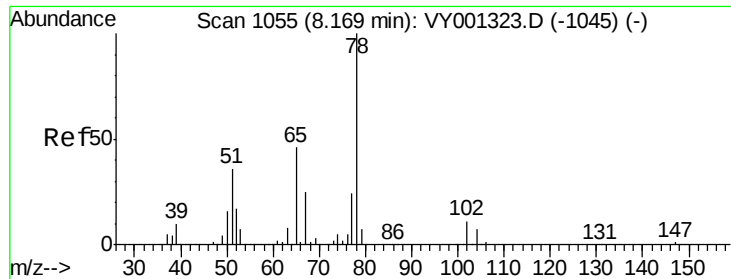
50

0

4.72 4.74 4.76 4.78

Time-->





#33

1,2-Dichloroethane-d4

Concen: 37.829 ug/l

RT: 8.17 min Scan# 1055

Delta R.T. -0.00 min

Lab File: VY001355.D

Acq: 23 Jan 2020 15:42

Instrument :

MSVOA\_Y

ClientSampled :

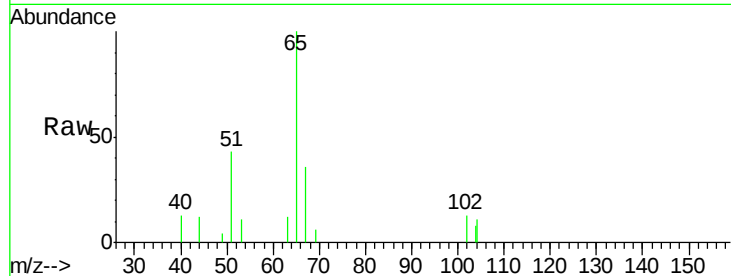
EP-9

Tot Ion: 65 Resp: 2944

Ion Ratio Lower Upper

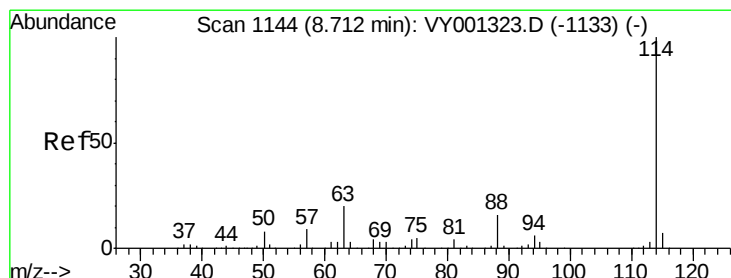
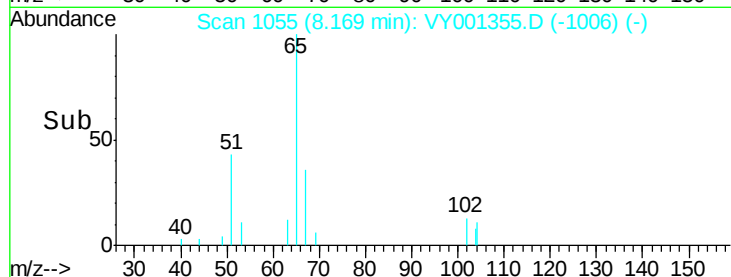
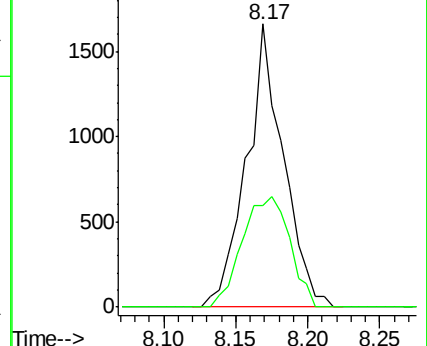
65 100

67 50.3 0.0 108.6



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: 8.72 min Scan# 1145

Delta R.T. 0.01 min

Lab File: VY001355.D

Acq: 23 Jan 2020 15:42

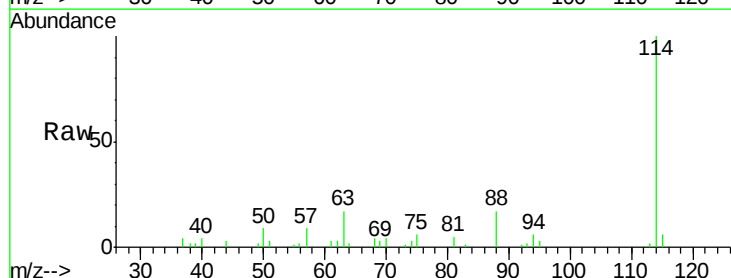
Tgt Ion: 114 Resp: 11669

Ion Ratio Lower Upper

114 100

63 17.2 0.0 40.8

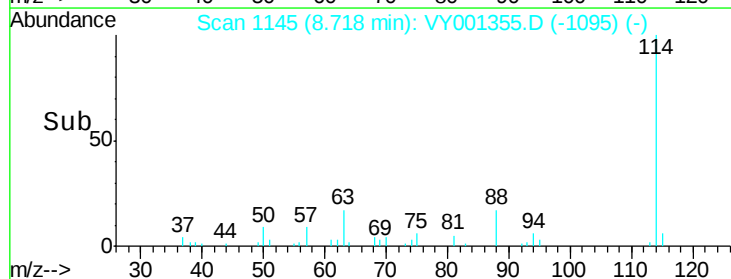
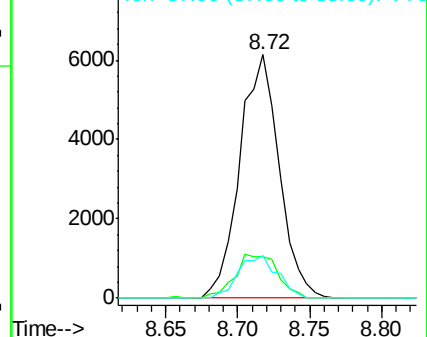
88 17.4 0.0 31.0

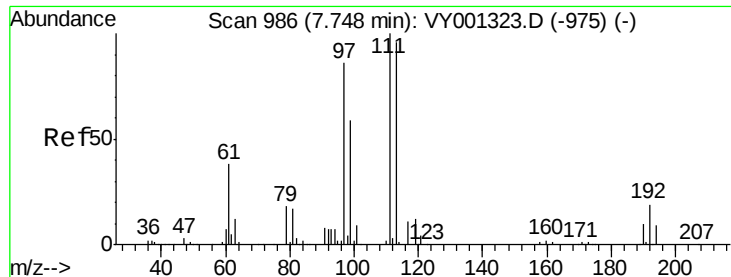


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0





#35

Dibromofluoromethane

Concen: 38.898 ug/l

RT: 7.75 min Scan# 987

Delta R.T. 0.01 min

Lab File: VY001355.D

Acq: 23 Jan 2020 15:42

Instrument :  
MSVOA\_Y  
ClientSampled :  
EP-9

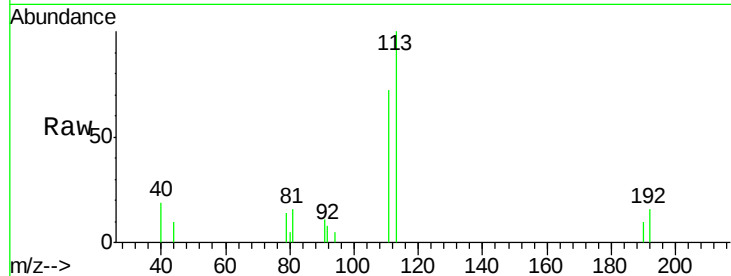
Tot Ion:113 Resp: 2664

Ion Ratio Lower Upper

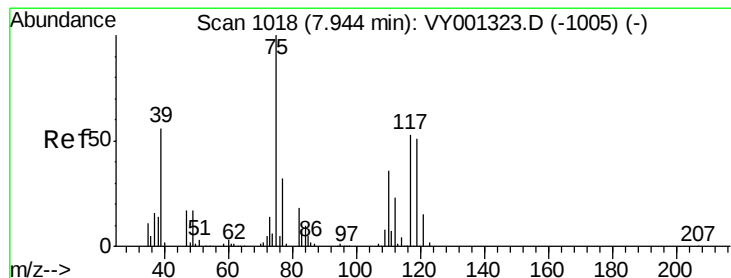
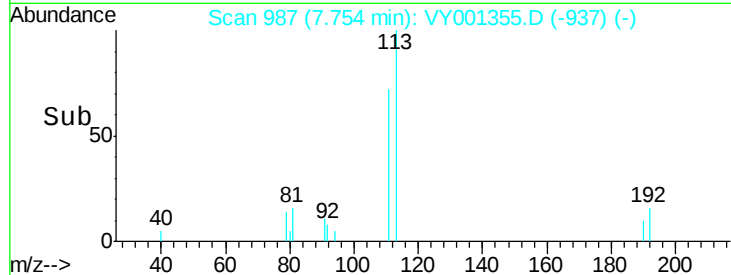
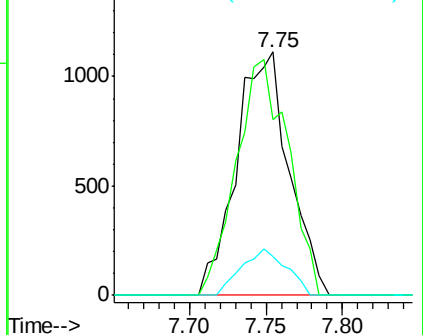
113 100

111 95.2 82.8 124.2

192 16.3 15.5 23.3



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: 5.189 ug/l

RT: 7.82 min Scan# 997

Delta R.T. -0.13 min

Lab File: VY001355.D

Acq: 23 Jan 2020 15:42

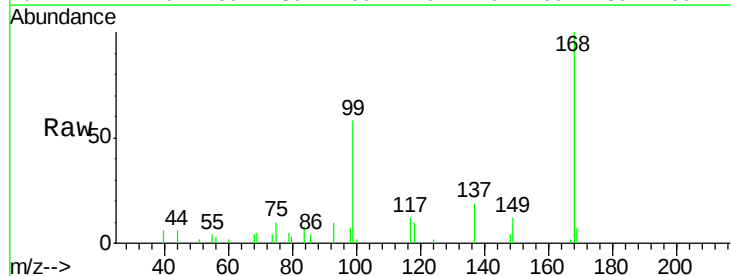
Tgt Ion: 75 Resp: 572

Ion Ratio Lower Upper

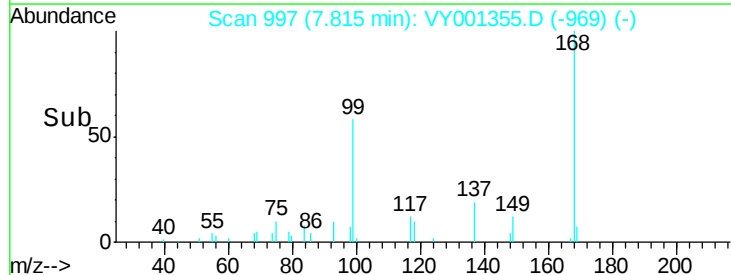
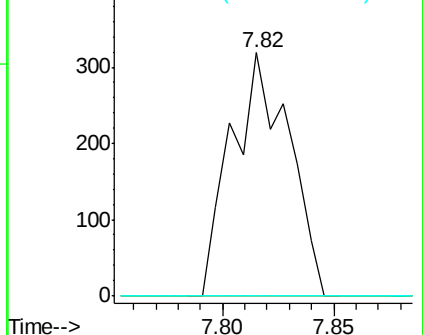
75 100

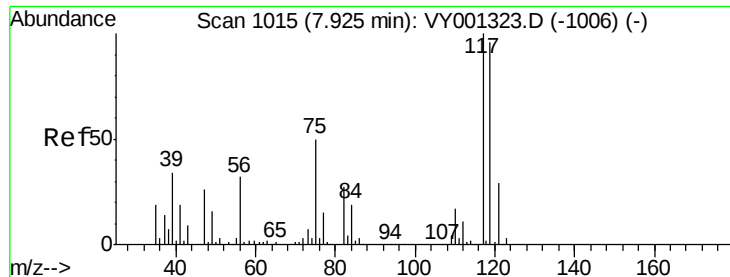
110 0.0 17.6 52.8#

77 0.0 24.7 37.1#



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: 8.651 ug/l

RT: 7.83 min Scan# 999

Delta R.T. -0.10 min

Lab File: VY001355.D

Acq: 23 Jan 2020 15:42

Instrument :

MSVOA\_Y

ClientSampled :

EP-9

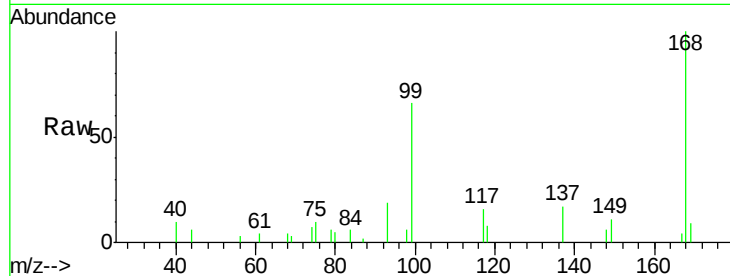
Tot Ion:117 Resp: 850

Ion Ratio Lower Upper

117 100

119 0.0 76.3 114.5#

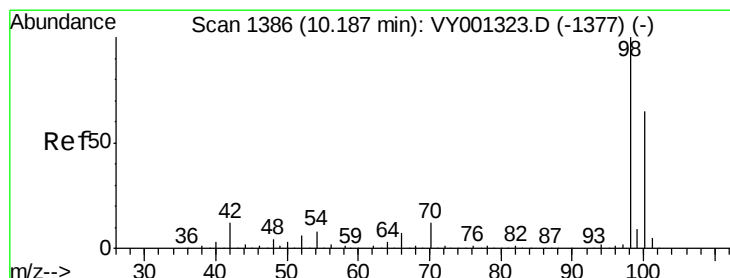
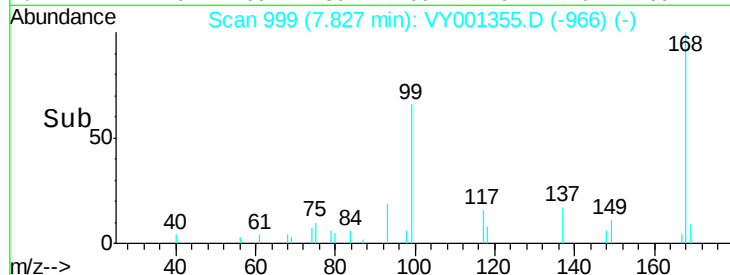
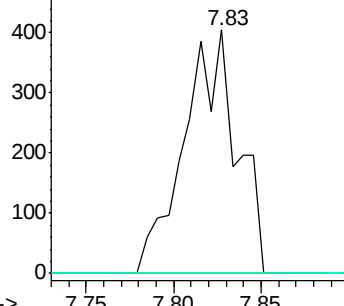
121 0.0 23.5 35.3#



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: 48.879 ug/l

RT: 10.20 min Scan# 1388

Delta R.T. 0.01 min

Lab File: VY001355.D

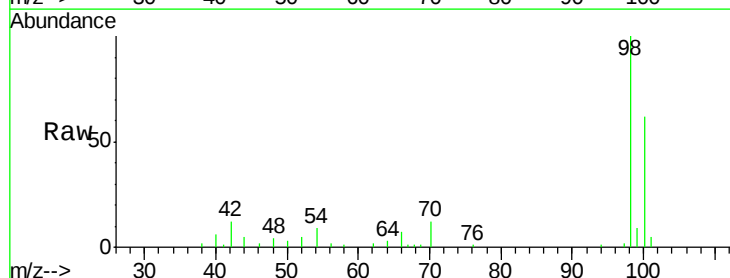
Acq: 23 Jan 2020 15:42

Tgt Ion: 98 Resp: 13006

Ion Ratio Lower Upper

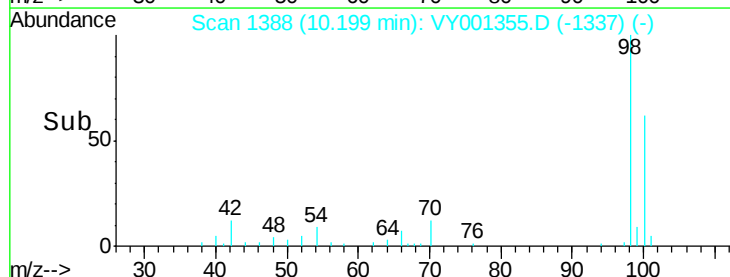
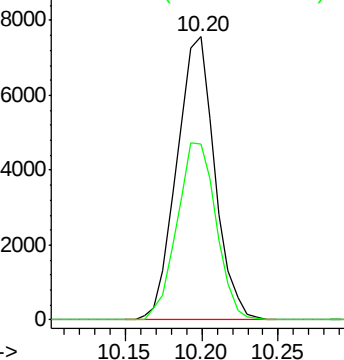
98 100

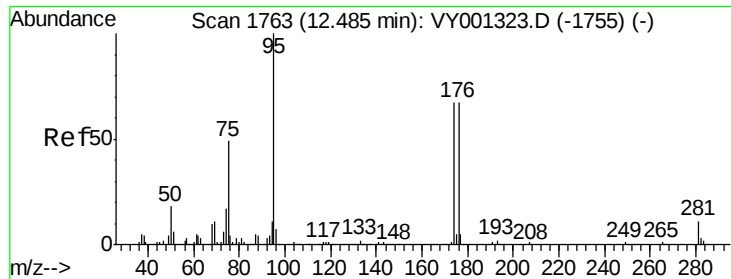
100 64.6 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY

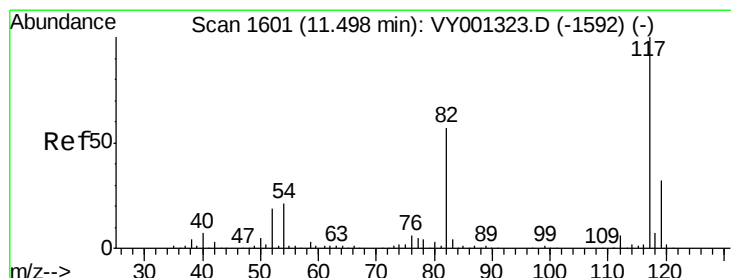
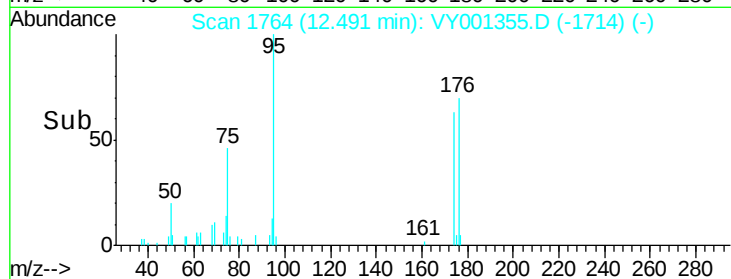
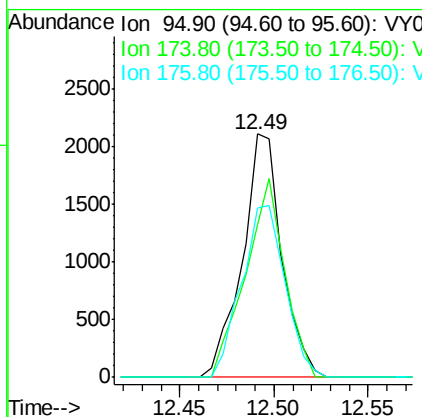
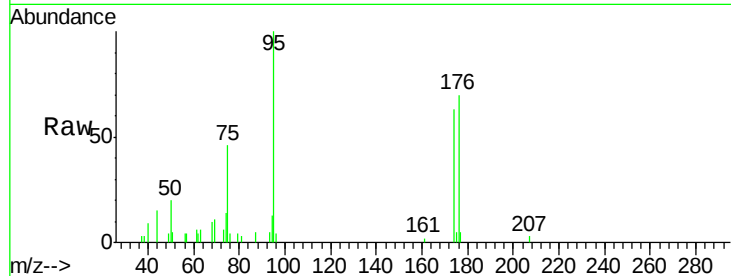




#62  
4-Bromofluorobenzene  
Concen: 29.085 ug/l  
RT: 12.49 min Scan# 1764  
Delta R.T. 0.01 min  
Lab File: VY001355.D  
Acq: 23 Jan 2020 15:42

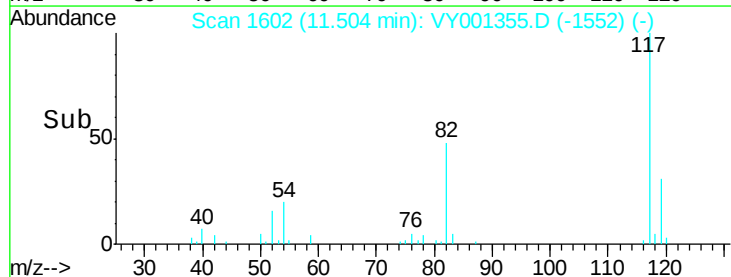
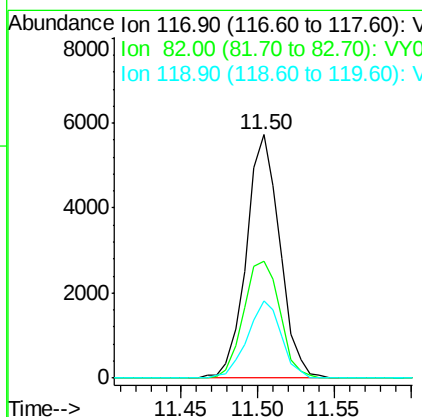
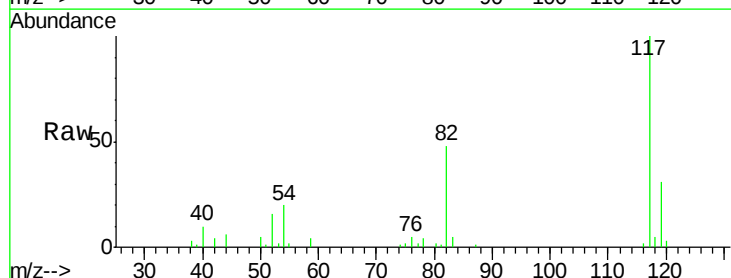
Instrument :  
MSVOA\_Y  
ClientSampled :  
EP-9

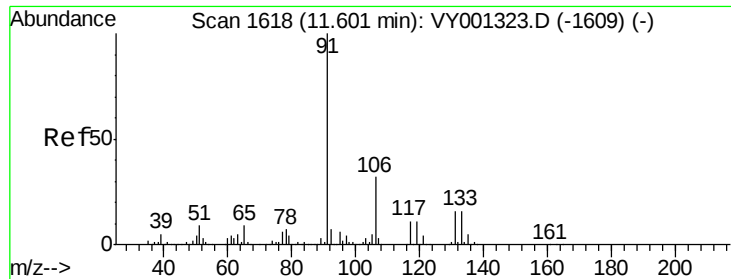
Tot Ion: 95 Resp: 3082  
Ion Ratio Lower Upper  
95 100  
174 80.4 0.0 142.0  
176 77.5 0.0 138.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.50 min Scan# 1602  
Delta R.T. 0.01 min  
Lab File: VY001355.D  
Acq: 23 Jan 2020 15:42

Tgt Ion: 117 Resp: 8689  
Ion Ratio Lower Upper  
117 100  
82 48.1 45.5 68.3  
119 31.5 25.8 38.6





#67

Ethyl Benzene

Concen: 1.022 ug/l

RT: 11.60 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VY001355.D

Acq: 23 Jan 2020 15:42

Instrument :

MSVOA\_Y

ClientSampled :

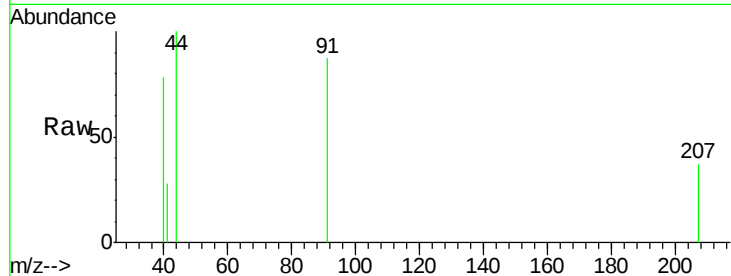
EP-9

Tot Ion: 91 Resp: 345

Ion Ratio Lower Upper

91 100

106 0.0 25.4 38.0#



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 106.00 (105.70 to 106.70): V

11.60

200

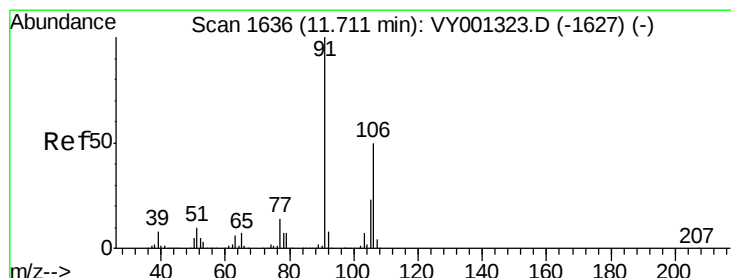
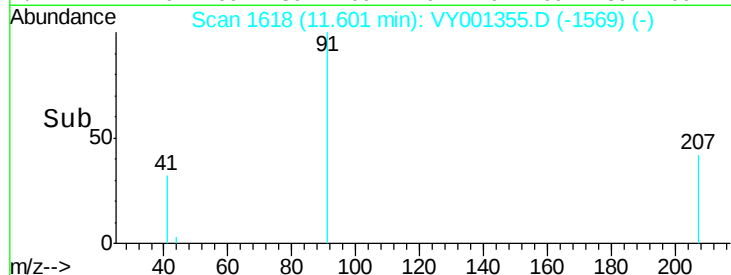
150

100

50

0

Time--> 11.55 11.60 11.65



#68

m/p-Xylenes

Concen: 3.451 ug/l

RT: 11.71 min Scan# 1636

Delta R.T. -0.00 min

Lab File: VY001355.D

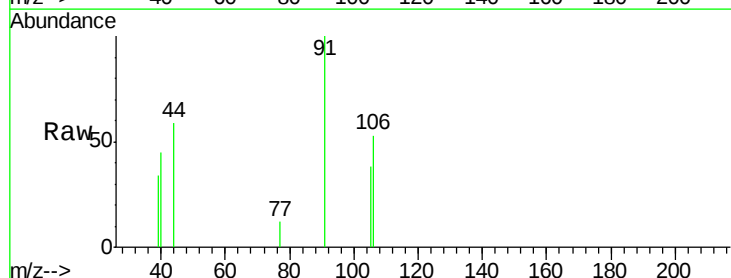
Acq: 23 Jan 2020 15:42

Tgt Ion: 106 Resp: 435

Ion Ratio Lower Upper

106 100

91 178.2 162.8 244.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0

11.71

600

500

400

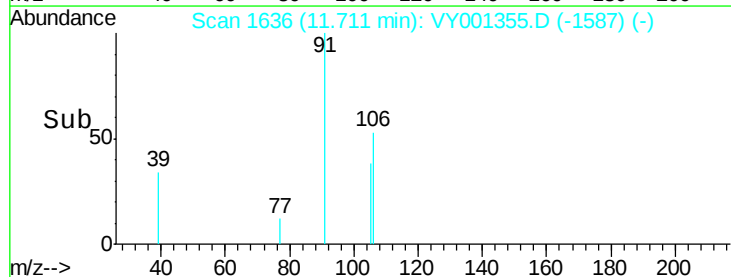
300

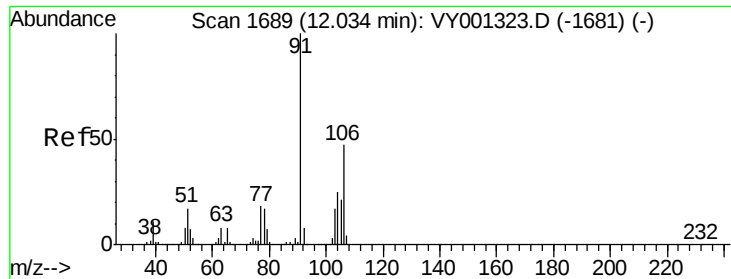
200

100

0

Time--> 11.65 11.70 11.75

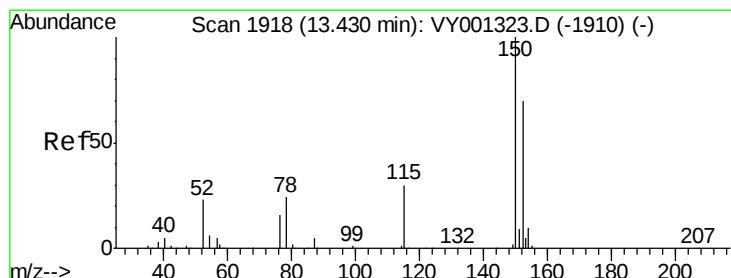
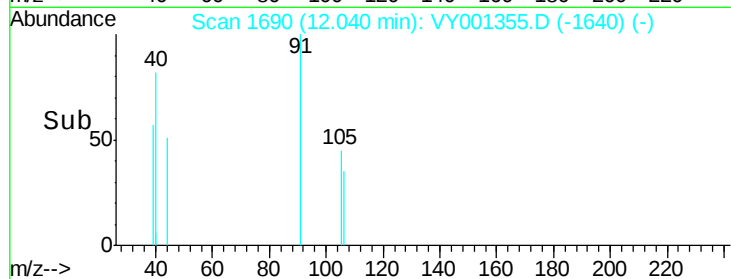
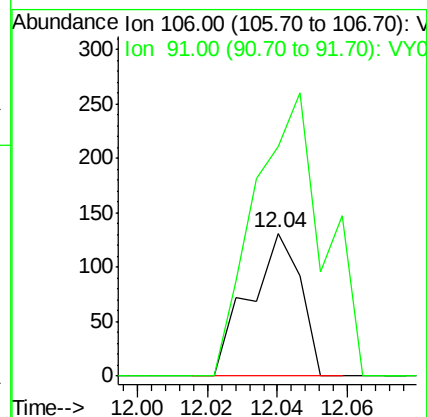
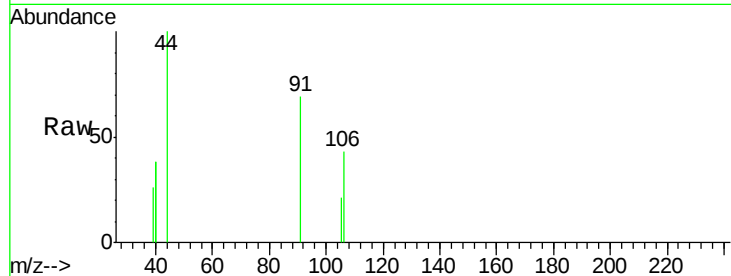




#69  
o-Xylene  
Concen: 1.097 ug/l  
RT: 12.04 min Scan# 1690  
Delta R.T. 0.01 min  
Lab File: VY001355.D  
Acq: 23 Jan 2020 15:42

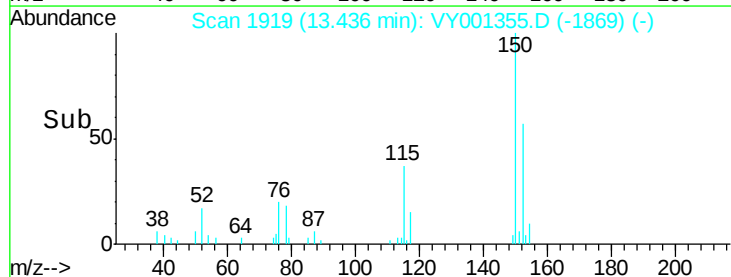
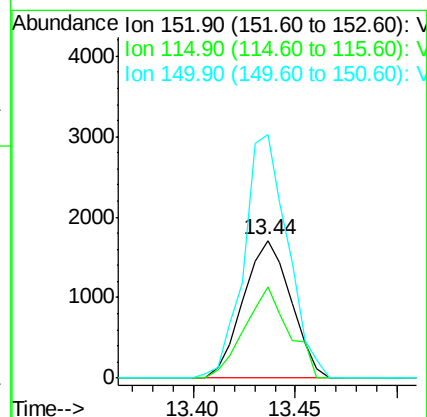
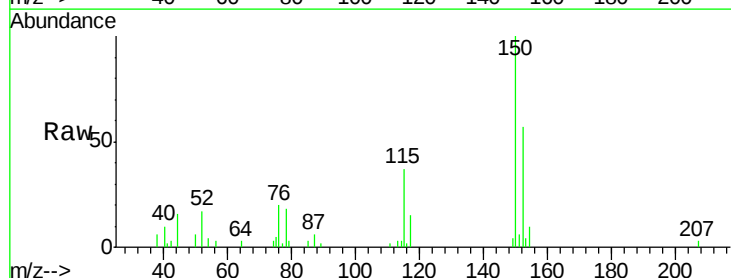
Instrument :  
MSVOA\_Y  
ClientSampleId :  
EP-9

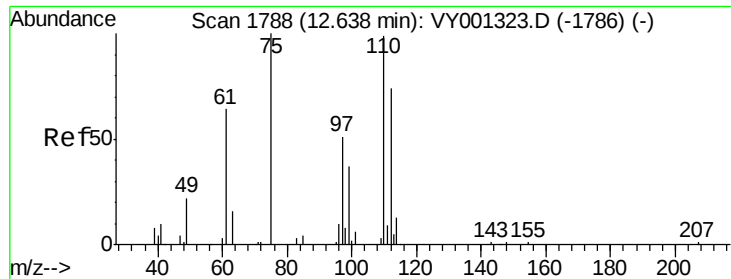
Tot Ion:106 Resp: 133  
Ion Ratio Lower Upper  
106 100  
91 269.9 106.3 319.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.44 min Scan# 1919  
Delta R.T. 0.01 min  
Lab File: VY001355.D  
Acq: 23 Jan 2020 15:42

Tgt Ion:152 Resp: 2763  
Ion Ratio Lower Upper  
152 100  
115 61.5 30.9 92.8  
150 162.7 0.0 349.2





#76

1,2,3-Trichloropropane

Concen: 48.867 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.15 min

Lab File: VY001355.D

Acq: 23 Jan 2020 15:42

Instrument :

MSVOA\_Y

ClientSampled :

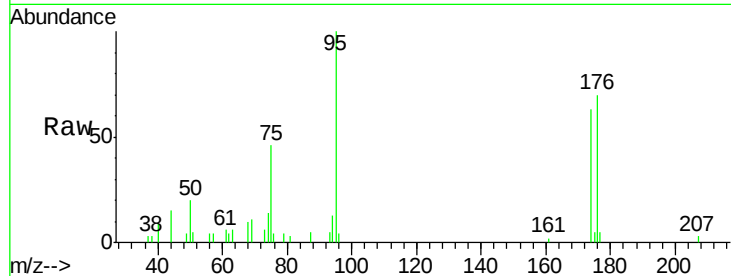
EP-9

Tot Ion: 75 Resp: 1627

Ion Ratio Lower Upper

75 100

77 1.6 0.0 0.0#

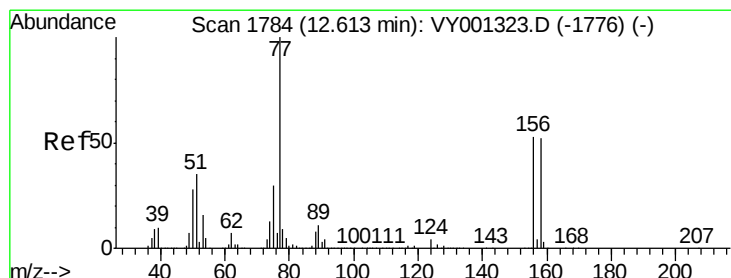
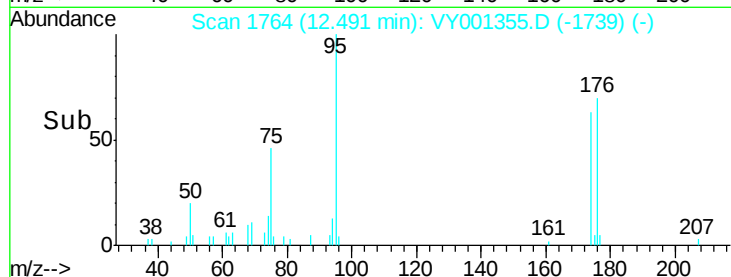


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0

12.49

Time-->



#77

Bromobenzene

Concen: 1.305 ug/l

RT: 12.54 min Scan# 1772

Delta R.T. -0.07 min

Lab File: VY001355.D

Acq: 23 Jan 2020 15:42

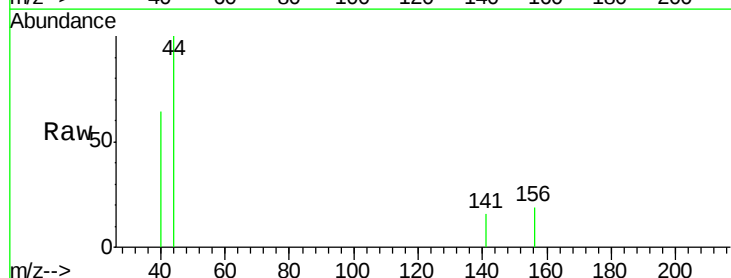
Tgt Ion: 156 Resp: 63

Ion Ratio Lower Upper

156 100

77 0.0 104.7 313.9#

158 0.0 48.6 145.8#



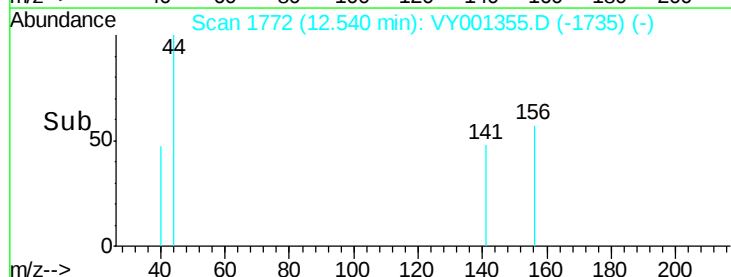
Abundance Ion 155.80 (155.50 to 156.50): V

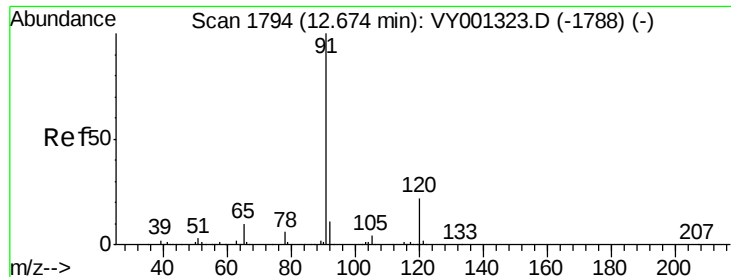
Ion 77.00 (76.70 to 77.70): VY0

Ion 157.80 (157.50 to 158.50): V

12.54

Time-->





#78

n-propylbenzene

Concen: 1.029 ug/l

RT: 12.68 min Scan# 1795

Delta R.T. 0.01 min

Lab File: VY001355.D

Acq: 23 Jan 2020 15:42

Instrument :

MSVOA\_Y

ClientSampled :

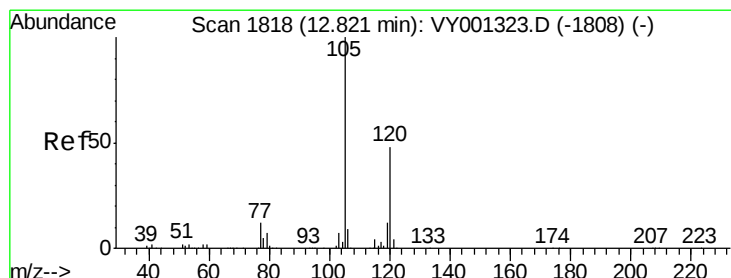
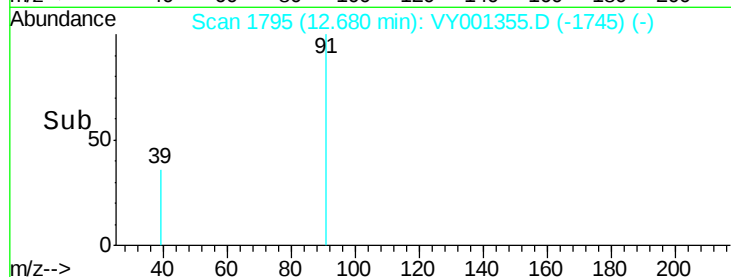
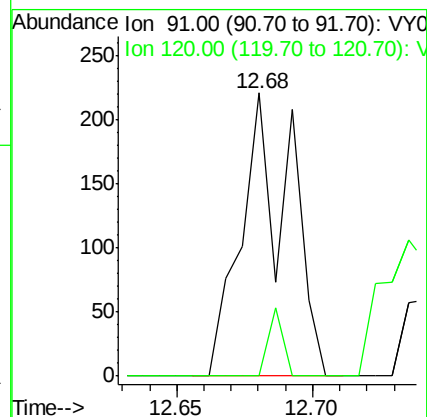
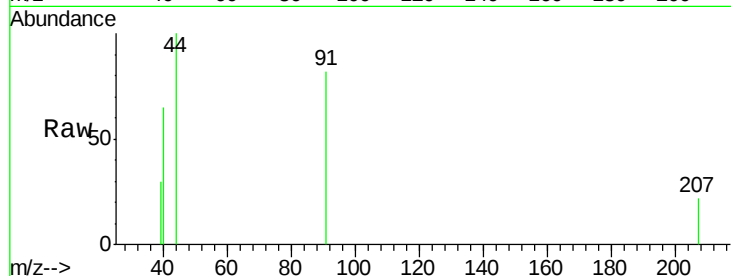
EP-9

Tot Ion: 91 Resp: 270

Ion Ratio Lower Upper

91 100

120 7.0 11.3 33.8#



#80

1,3,5-Trimethylbenzene

Concen: 2.324 ug/l

RT: 12.83 min Scan# 1819

Delta R.T. 0.01 min

Lab File: VY001355.D

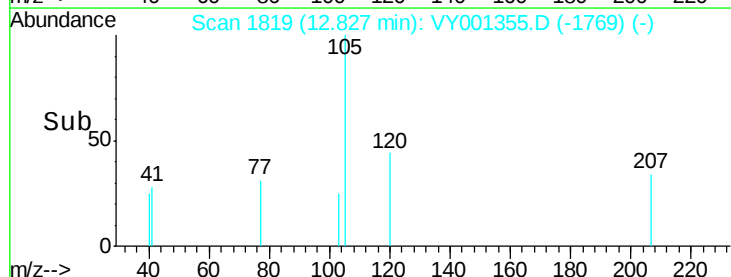
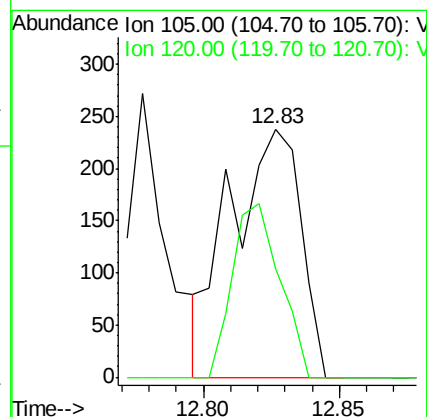
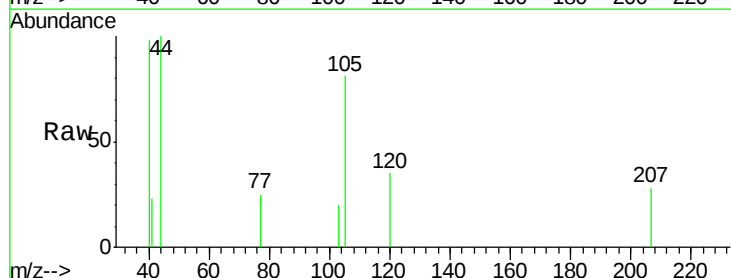
Acq: 23 Jan 2020 15:42

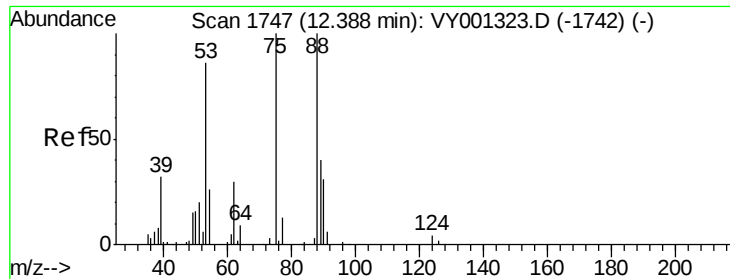
Tgt Ion: 105 Resp: 423

Ion Ratio Lower Upper

105 100

120 47.5 24.3 72.9

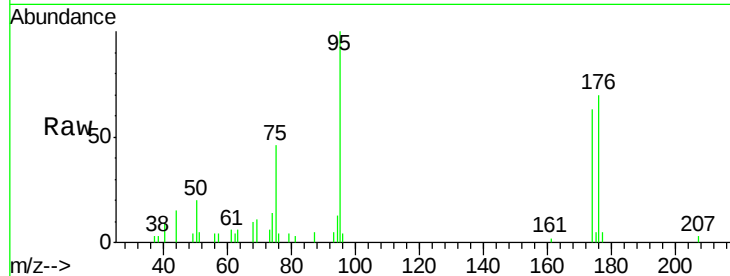




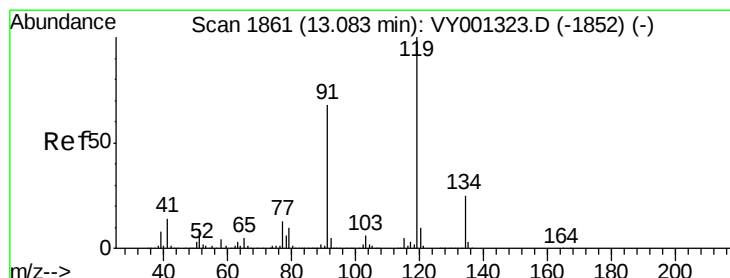
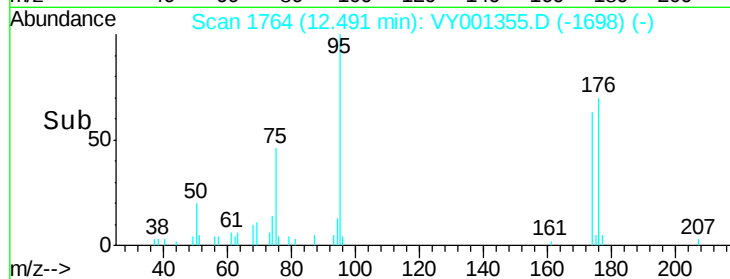
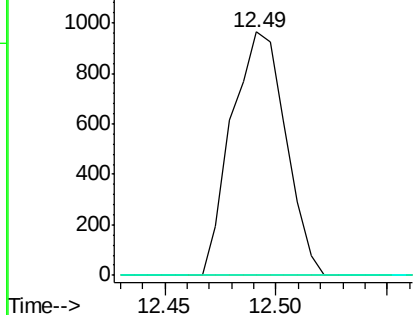
#81  
trans-1,4-Dichloro-2-butene  
Concen: 92.476 ug/l  
RT: 12.49 min Scan# 1764  
Delta R.T. 0.10 min  
Lab File: VY001355.D  
Acq: 23 Jan 2020 15:42

Instrument :  
MSVOA\_Y  
ClientSampled :  
EP-9

Tot Ion: 75 Resp: 1627  
Ion Ratio Lower Upper  
75 100  
53 0.0 69.9 104.9#  
89 0.0 36.6 54.8#

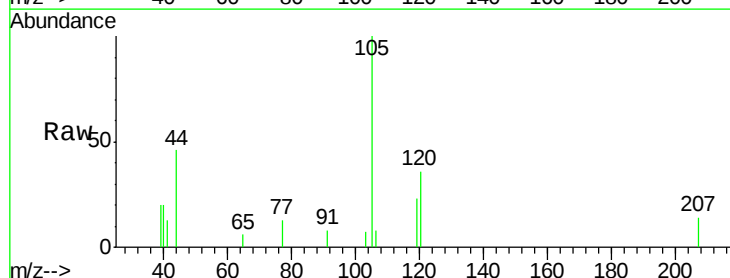


Abundance Ion 74.90 (74.60 to 75.60): VY0  
Ion 53.00 (52.70 to 53.70): VY0  
Ion 88.90 (88.60 to 89.60): VY0

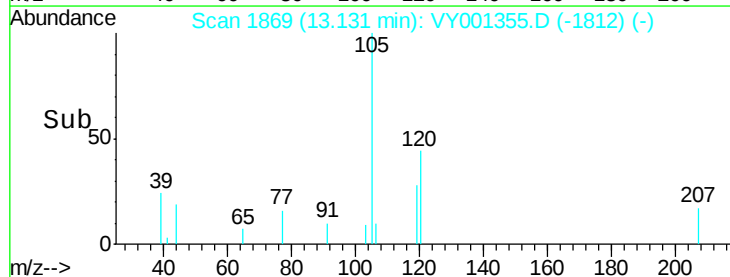
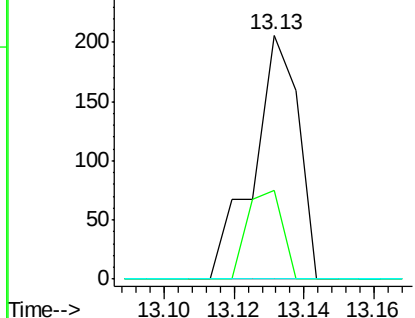


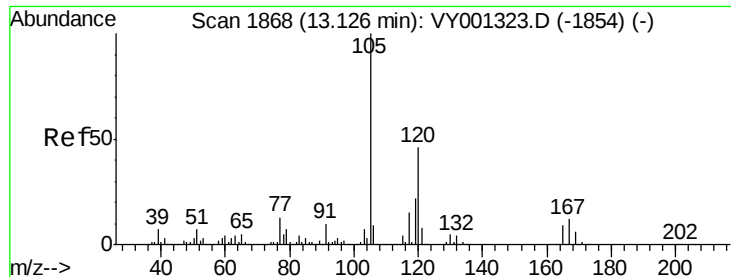
#83  
tert-Butylbenzene  
Concen: 1.193 ug/l  
RT: 13.13 min Scan# 1869  
Delta R.T. 0.05 min  
Lab File: VY001355.D  
Acq: 23 Jan 2020 15:42

Tgt Ion: 119 Resp: 183  
Ion Ratio Lower Upper  
119 100  
91 28.4 33.0 99.0#  
134 0.0 13.3 39.9#



Abundance Ion 119.00 (118.70 to 119.70): V  
Ion 91.00 (90.70 to 91.70): VY0  
Ion 134.00 (133.70 to 134.70): V





#84

1,2,4-Trimethylbenzene

Concen: 7.022 ug/l

RT: 13.13 min Scan# 1869

Delta R.T. 0.01 min

Lab File: VY001355.D

Acq: 23 Jan 2020 15:42

Instrument :

MSVOA\_Y

ClientSampled :

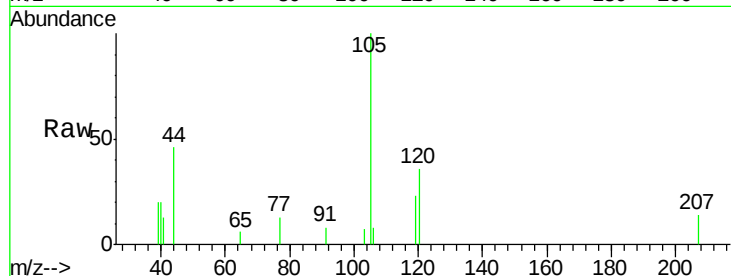
EP-9

Tot Ion:105 Resp: 1283

Ion Ratio Lower Upper

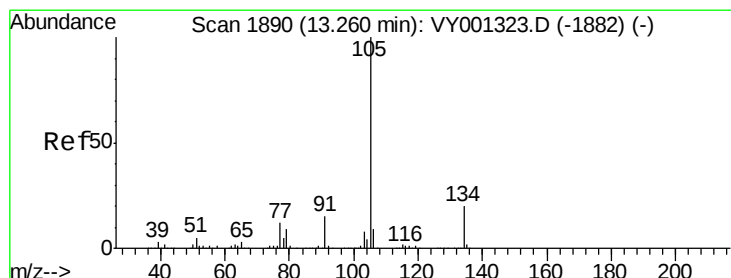
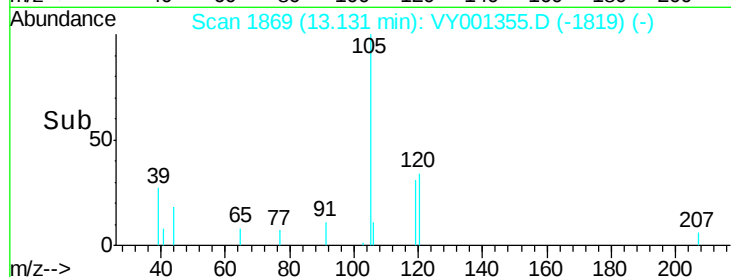
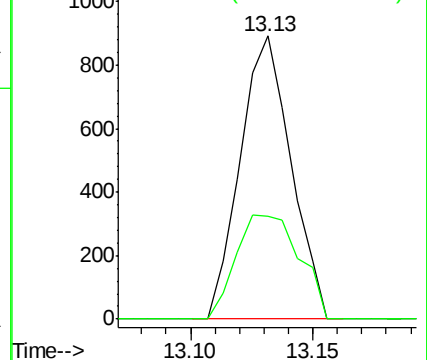
105 100

120 45.9 22.4 67.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#85

sec-Butylbenzene

Concen: 5.887 ug/l

RT: 13.13 min Scan# 1869

Delta R.T. -0.13 min

Lab File: VY001355.D

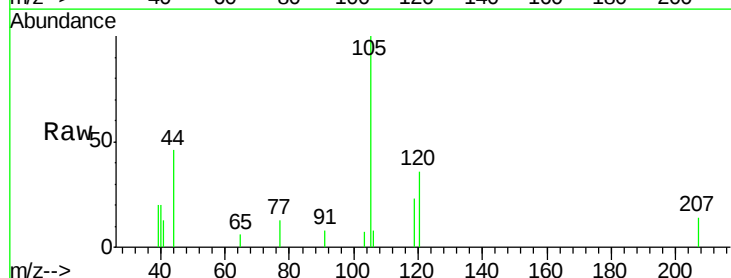
Acq: 23 Jan 2020 15:42

Tgt Ion:105 Resp: 1283

Ion Ratio Lower Upper

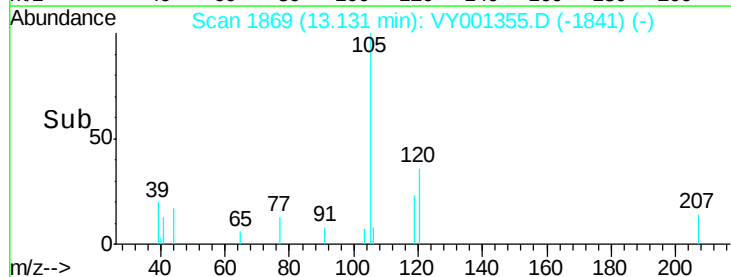
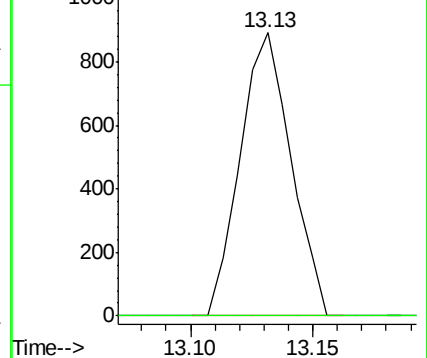
105 100

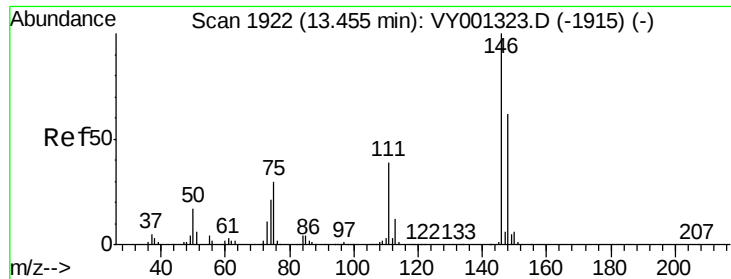
134 0.0 9.8 29.4#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V





#88  
 1,4-Dichlorobenzene  
 Concen: 1.292 ug/l  
 RT: 13.45 min Scan# 1921  
 Delta R.T. -0.01 min  
 Lab File: VY001355.D  
 Acq: 23 Jan 2020 15:42

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 EP-9

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 146     | 100   |       |       |
| 111     | 21.3  | 20.5  | 61.5  |
| 148     | 0.0   | 31.6  | 95.0  |

