

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY120319\  
 Data File : VY000843.D  
 Acq On : 03 Dec 2019 17:03  
 Operator : SY/MD  
 Sample : K6120-07  
 Misc : 7.88G/5ML/MSVOA Y/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Dec 04 00:58:24 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y112719S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 27 12:40:47 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 247829   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 463810   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 407213   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 170780   | 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   | 153509   | 58.29 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 116.58% |          |
| 35) Dibromofluoromethane    | 7.73  | 113  | 136098   | 50.35 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.70% |          |
| 50) Toluene-d8              | 10.18 | 98   | 550885   | 50.98 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.96% |          |
| 62) 4-Bromofluorobenzene    | 12.48 | 95   | 181769   | 44.79 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 89.58%  |          |

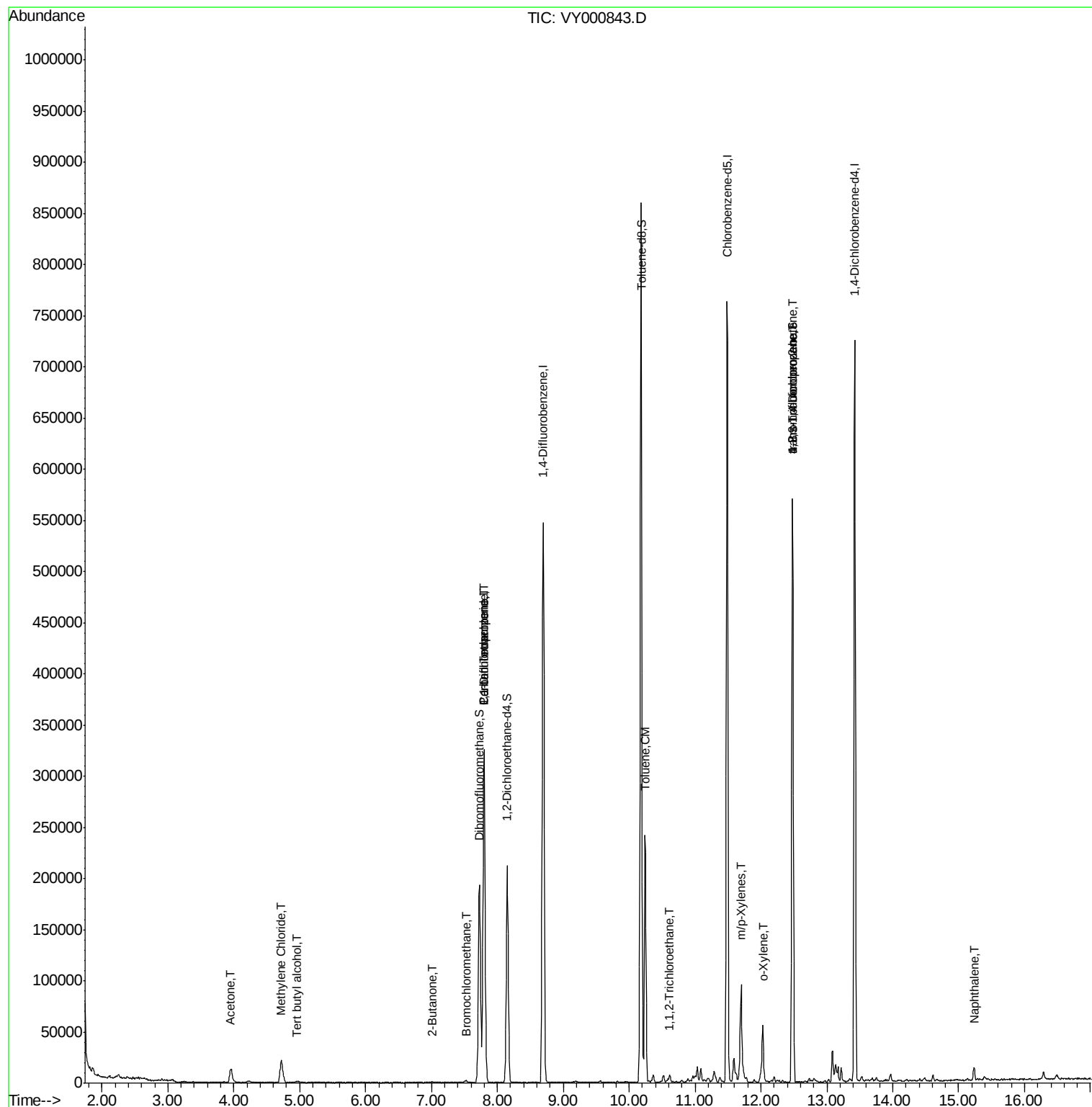
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 2.65  | 94   | 127      | Below Cal | #      | 37     |
| 11) Tert butyl alcohol         | 4.94  | 59   | 2460     | 9.285     | ug/l # | 81     |
| 16) Acetone                    | 3.95  | 43   | 22288    | 36.895    | ug/l   | 91     |
| 20) Methylene Chloride         | 4.72  | 84   | 14981    | 4.705     | ug/l   | 86     |
| 25) 2-Butanone                 | 7.01  | 43   | 1201     | 1.076     | ug/l # | 79     |
| 28) Bromochloromethane         | 7.53  | 49   | 22       | 2.026     | ug/l # | 15     |
| 36) 1,1-Dichloropropene        | 7.80  | 75   | 20515    | 4.448     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.80  | 117  | 25057    | 6.101     | ug/l # | 16     |
| 52) Toluene                    | 10.24 | 92   | 99966    | 12.019    | ug/l   | 97     |
| 55) 1,1,2-Trichloroethane      | 10.62 | 97   | 3420     | 1.313     | ug/l # | 21     |
| 68) m/p-Xylenes                | 11.70 | 106  | 28557    | 4.826     | ug/l   | 96     |
| 69) o-Xylene                   | 12.03 | 106  | 13288    | 2.409     | ug/l   | 97     |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75   | 91799    | 47.443    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75   | 91799    | 93.192    | ug/l # | 17     |
| 95) Naphthalene                | 15.23 | 128  | 9793     | 1.198     | ug/l # | 93     |

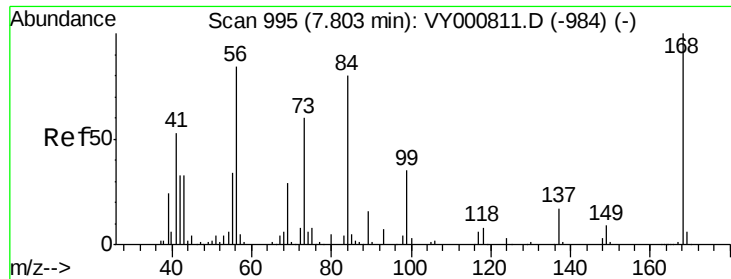
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY120319\  
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Instrument :  
MSVOA\_Y  
ClientSampleId :

Quant Time: Dec 04 00:58:24 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y112719S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 27 12:40:47 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.01 min

Lab File: VY000843.D

Acq: 03 Dec 2019 17:03

Instrument :

MSVOA\_Y

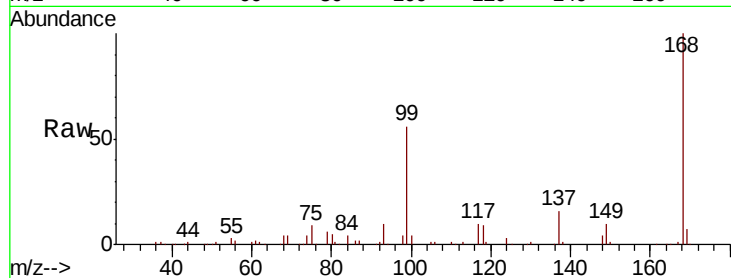
ClientSampleId :

Tot Ion:168 Resp: 247829

Ion Ratio Lower Upper

168 100

99 55.7 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): VY000811.D (-984) (-)

Ion 98.90 (98.60 to 99.60): VY000811.D (-984) (-)

7.80

100000

80000

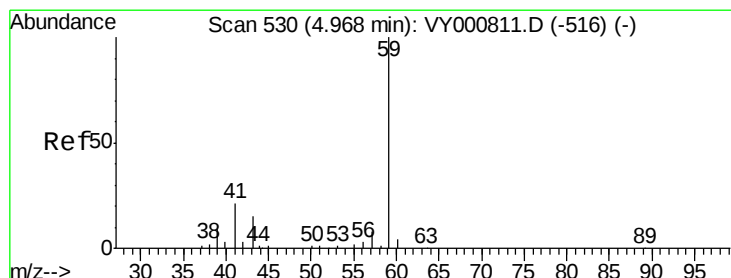
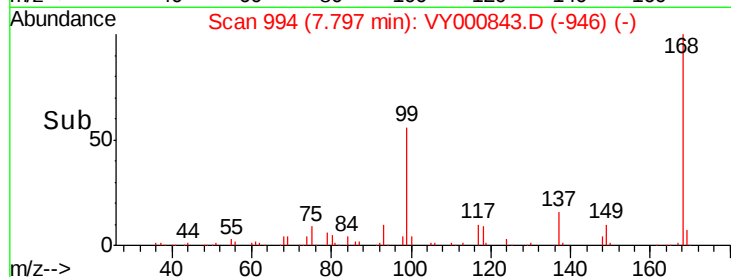
60000

40000

20000

0

Time--> 7.70 7.80 7.90



#11

Tert butyl alcohol

Concen: 9.285 ug/l

RT: 4.94 min Scan# 526

Delta R.T. -0.02 min

Lab File: VY000843.D

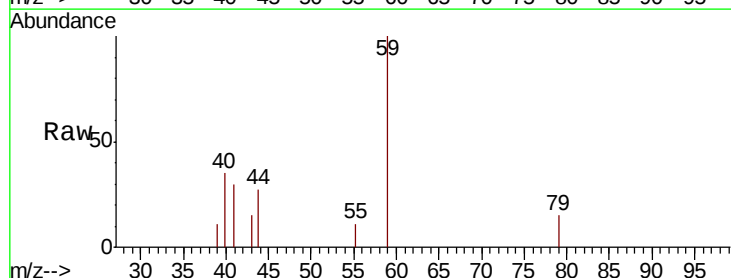
Acq: 03 Dec 2019 17:03

Tgt Ion: 59 Resp: 2460

Ion Ratio Lower Upper

59 100

57 2.7 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VY000811.D (-516) (-)

Ion 57.00 (56.70 to 57.70): VY000811.D (-516) (-)

4.94

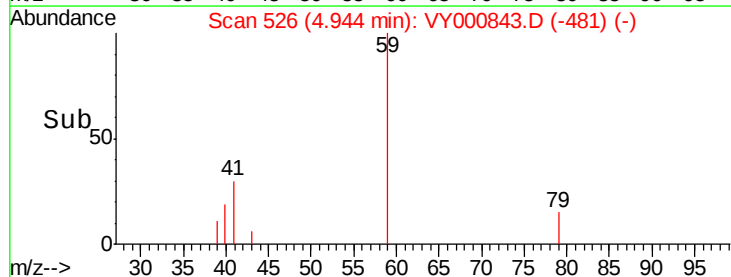
600

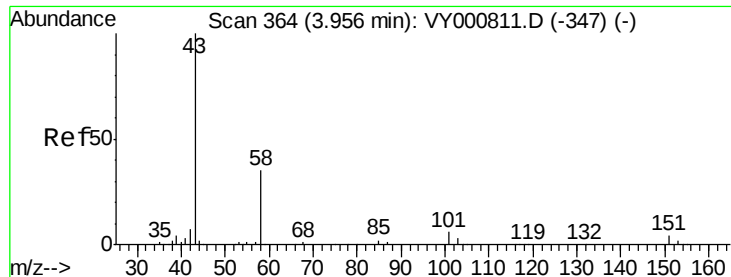
400

200

0

Time--> 4.85 4.90 4.95 5.00 5.05





#16

Acetone

Concen: 36.895 ug/l

RT: 3.95 min Scan# 363

Delta R.T. -0.01 min

Lab File: VY000843.D

Acq: 03 Dec 2019 17:03

Instrument :

MSVOA\_Y

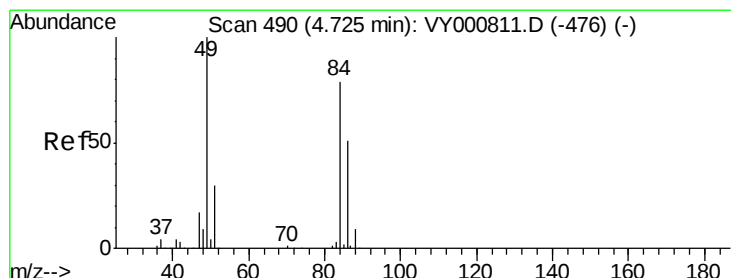
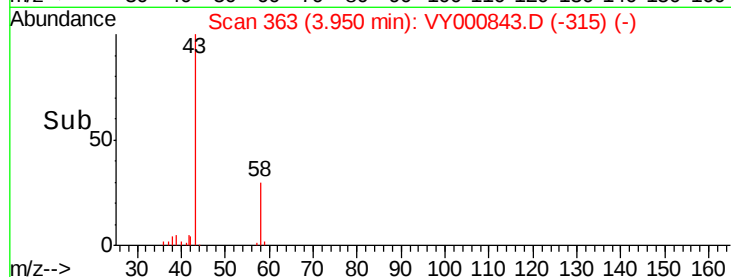
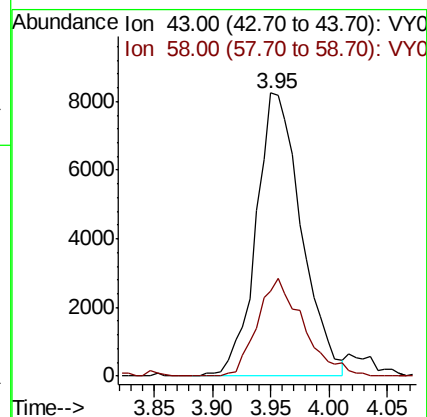
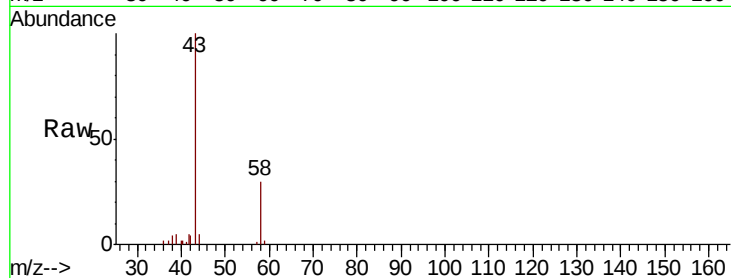
ClientSampleId :

Tot Ion: 43 Resp: 22288

Ion Ratio Lower Upper

43 100

58 29.9 28.0 42.0



#20

Methylene Chloride

Concen: 4.705 ug/l

RT: 4.72 min Scan# 489

Delta R.T. -0.01 min

Lab File: VY000843.D

Acq: 03 Dec 2019 17:03

Tgt Ion: 84 Resp: 14981

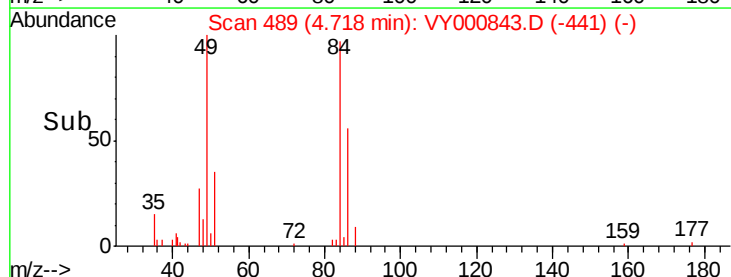
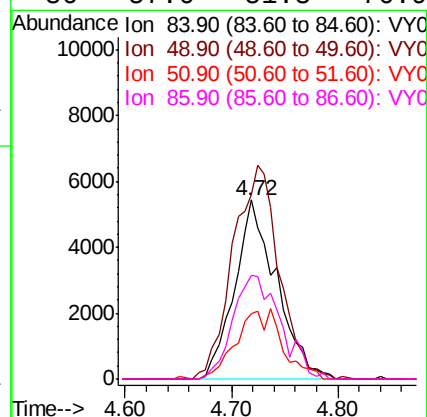
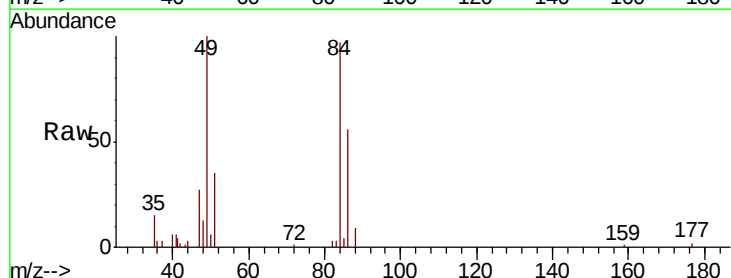
Ion Ratio Lower Upper

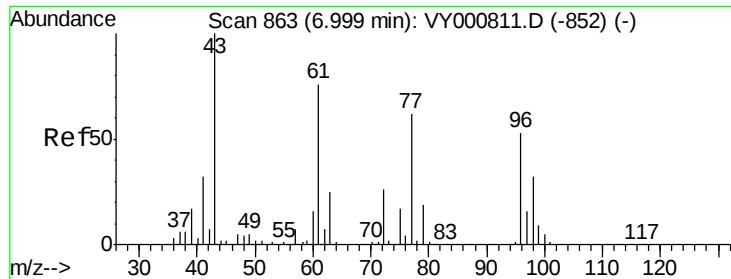
84 100

49 102.8 101.3 151.9

51 36.3 30.6 45.8

86 57.6 51.3 76.9





#25

2-Butanone

Concen: 1.076 ug/l

RT: 7.01 min Scan# 865

Delta R.T. 0.01 min

Lab File: VY000843.D

Acq: 03 Dec 2019 17:03

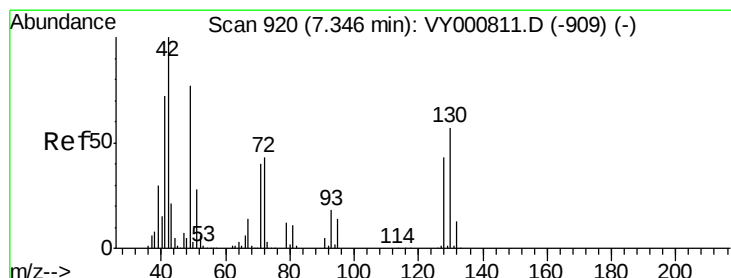
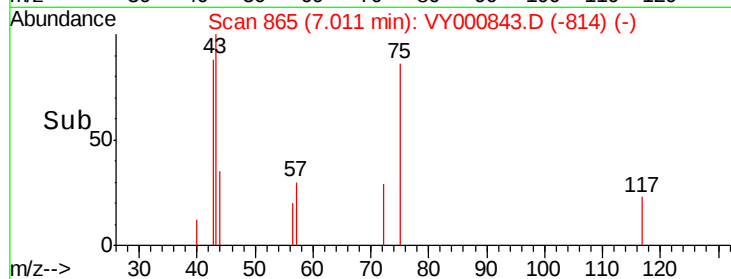
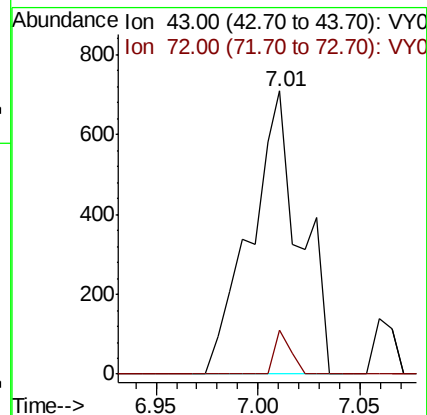
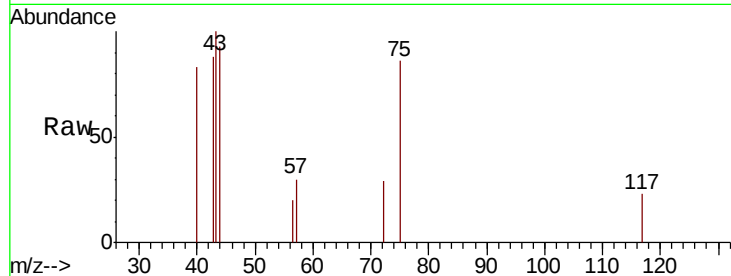
Instrument :  
MSVOA\_Y  
ClientSampled :

Tot Ion: 43 Resp: 1201

Ion Ratio Lower Upper

43 100

72 15.5 21.0 31.4#



#28

Bromochloromethane

Concen: 2.026 ug/l

RT: 7.53 min Scan# 950

Delta R.T. 0.18 min

Lab File: VY000843.D

Acq: 03 Dec 2019 17:03

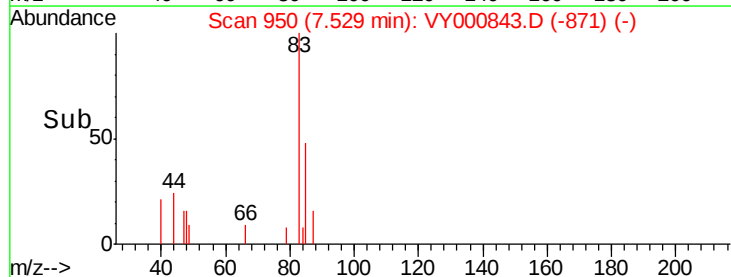
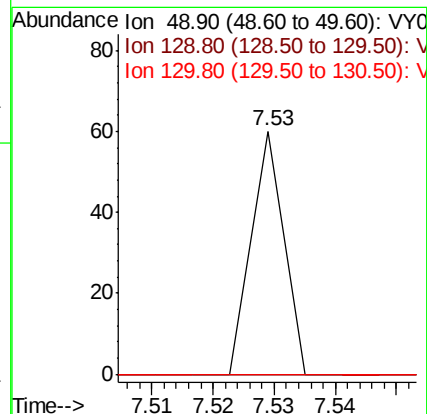
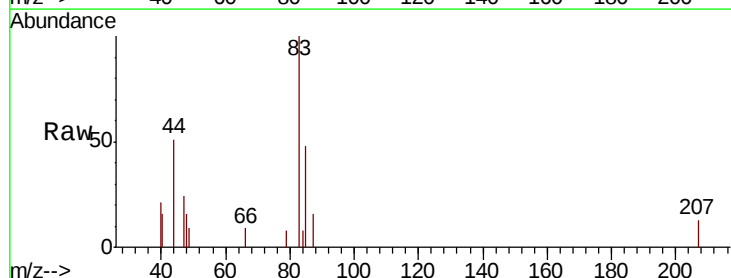
Tgt Ion: 49 Resp: 22

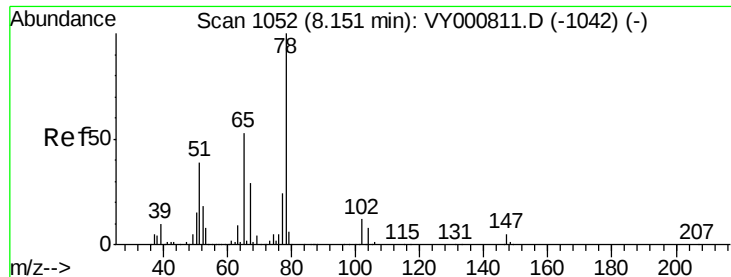
Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

130 0.0 58.7 88.1#

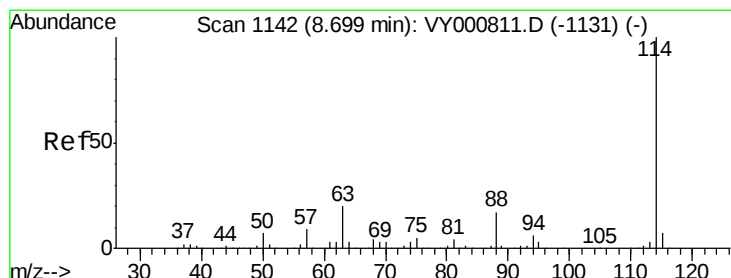
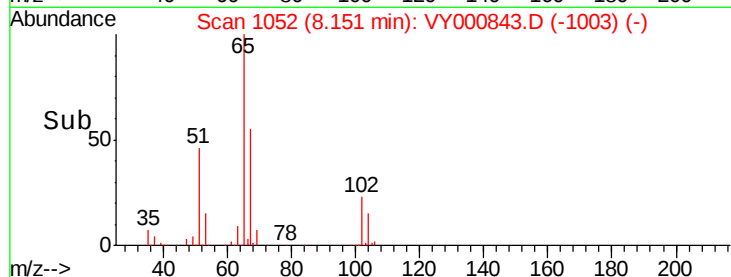
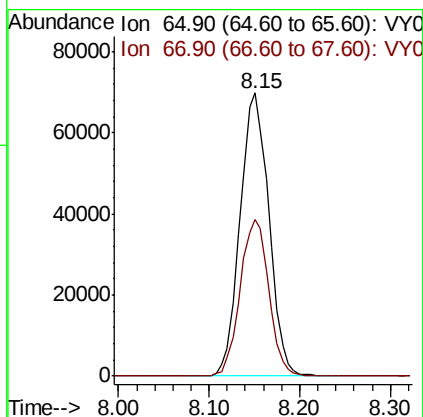
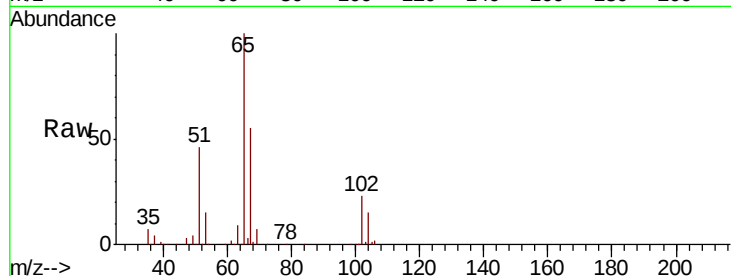




#33  
 1,2-Dichloroethane-d4  
 Concen: 58.293 ug/l  
 RT: 8.15 min Scan# 1052  
 Delta R.T. -0.00 min  
 Lab File: VY000843.D  
 Acq: 03 Dec 2019 17:03

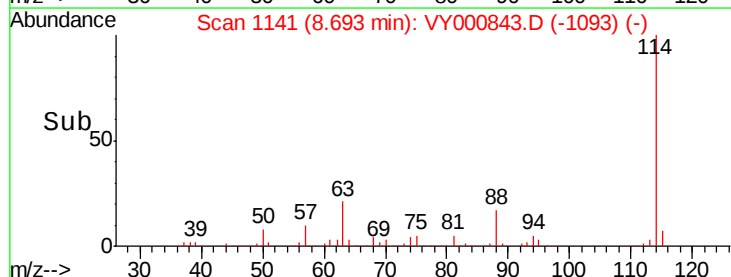
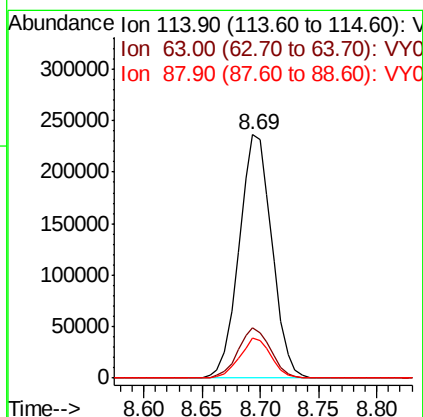
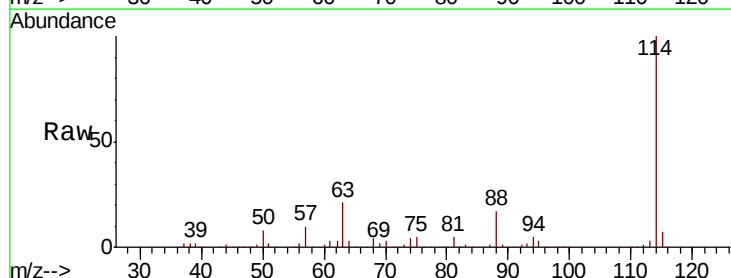
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

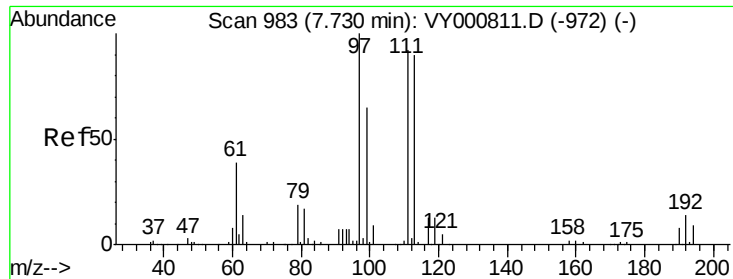
Tot Ion: 65 Resp: 153509  
 Ion Ratio Lower Upper  
 65 100  
 67 54.8 0.0 112.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.69 min Scan# 1141  
 Delta R.T. -0.01 min  
 Lab File: VY000843.D  
 Acq: 03 Dec 2019 17:03

Tgt Ion: 114 Resp: 463810  
 Ion Ratio Lower Upper  
 114 100  
 63 20.7 0.0 39.8  
 88 16.5 0.0 33.2





#35

Dibromofluoromethane

Concen: 50.349 ug/l

RT: 7.73 min Scan# 983

Delta R.T. -0.00 min

Lab File: VY000843.D

Acq: 03 Dec 2019 17:03

Instrument :

MSVOA\_Y

ClientSampleId :

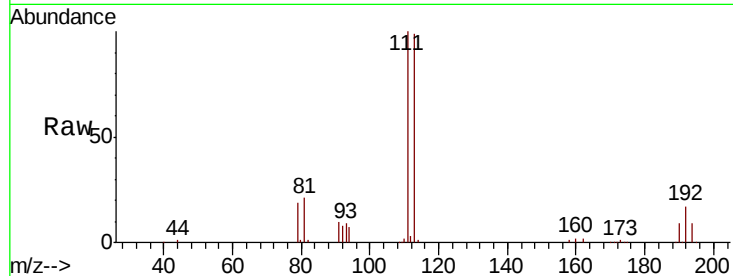
Tot Ion:113 Resp: 136098

Ion Ratio Lower Upper

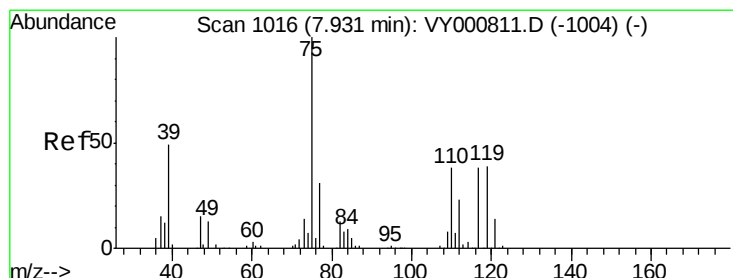
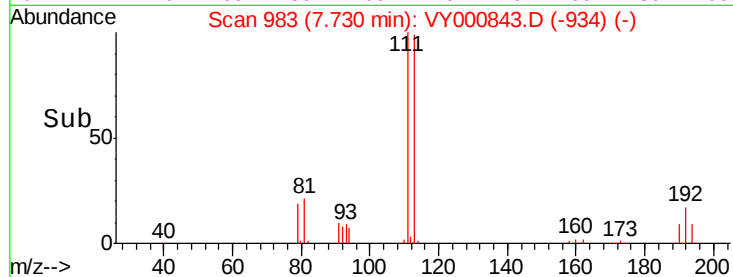
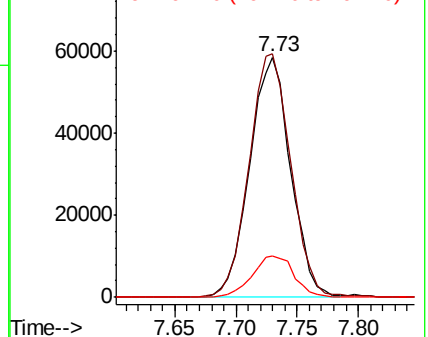
113 100

111 103.7 82.4 123.6

192 17.8 14.2 21.2



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: 4.448 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.13 min

Lab File: VY000843.D

Acq: 03 Dec 2019 17:03

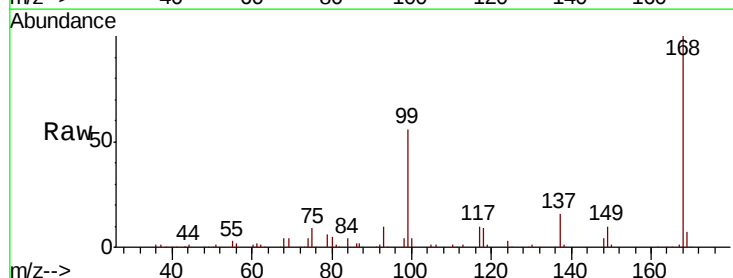
Tgt Ion: 75 Resp: 20515

Ion Ratio Lower Upper

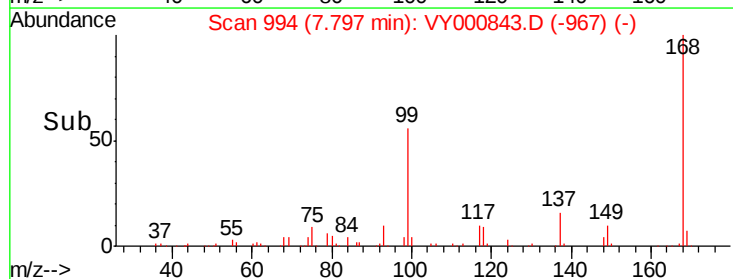
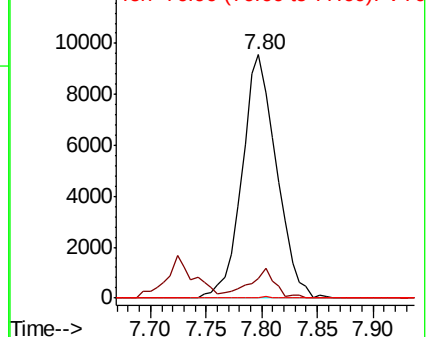
75 100

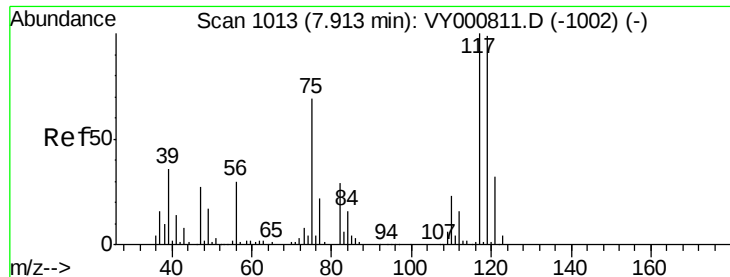
110 9.1 17.9 53.7#

77 0.2 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: 6.101 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.12 min

Lab File: VY000843.D

Acq: 03 Dec 2019 17:03

Instrument :

MSVOA\_Y

ClientSampled :

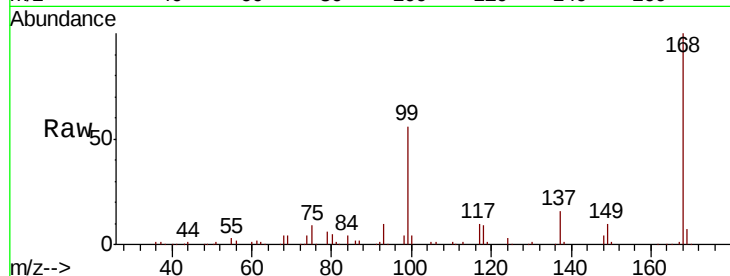
Tot Ion:117 Resp: 25057

Ion Ratio Lower Upper

117 100

119 6.3 79.3 118.9#

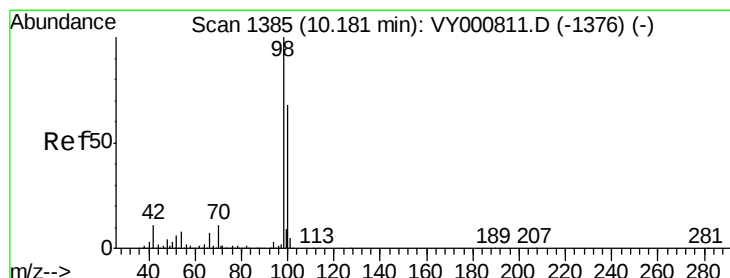
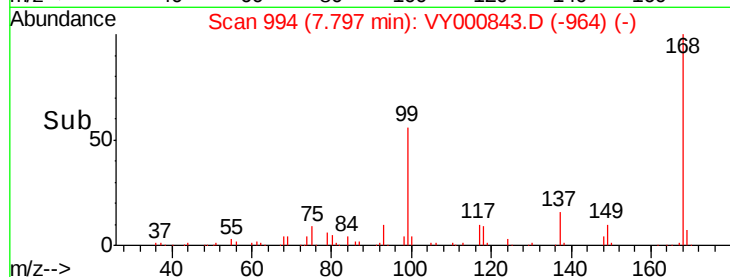
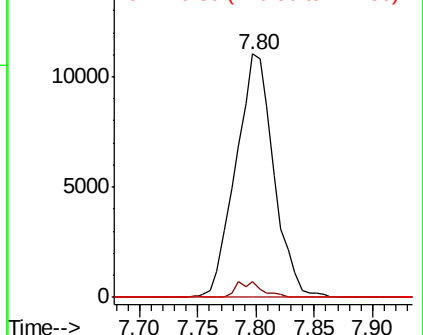
121 0.0 25.5 38.3#



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: 50.976 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VY000843.D

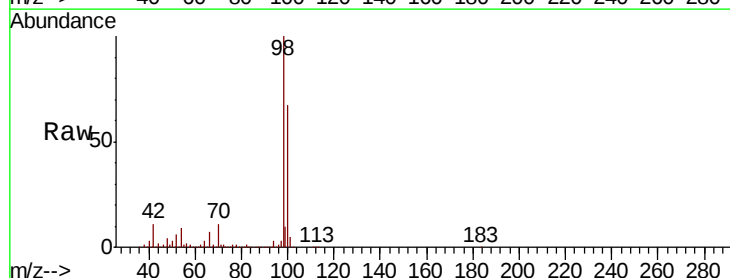
Acq: 03 Dec 2019 17:03

Tgt Ion: 98 Resp: 550885

Ion Ratio Lower Upper

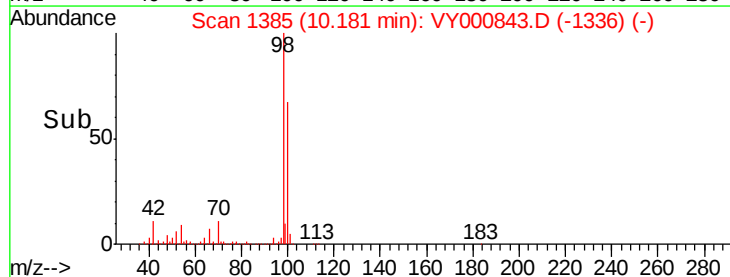
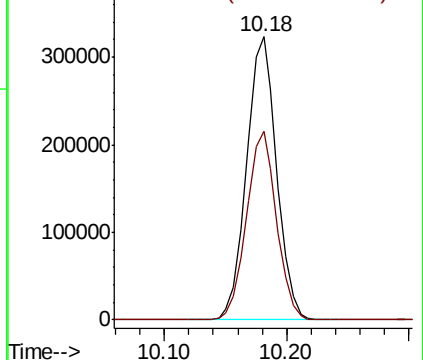
98 100

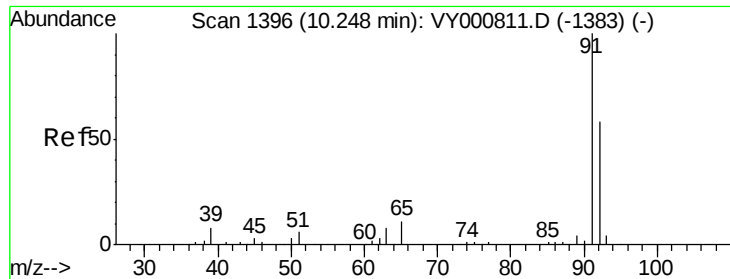
100 66.4 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY





#52

Toluene

Concen: 12.019 ug/l

RT: 10.24 min Scan# 1395

Delta R.T. -0.01 min

Lab File: VY000843.D

Acq: 03 Dec 2019 17:03

Instrument :

MSVOA\_Y

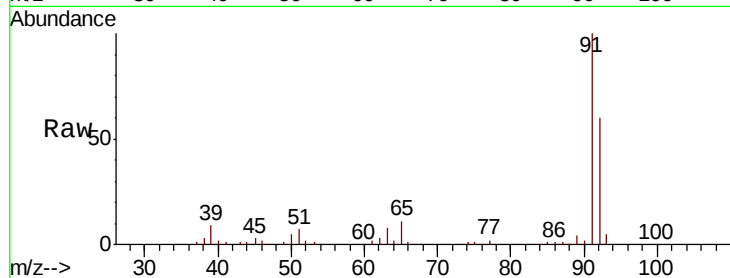
ClientSampleId :

Tot Ion: 92 Resp: 99966

Ion Ratio Lower Upper

92 100

91 166.1 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VY000843.D (-1383) (-)

Ion 91.00 (90.70 to 91.70): VY000843.D (-1383) (-)

100000

80000

60000

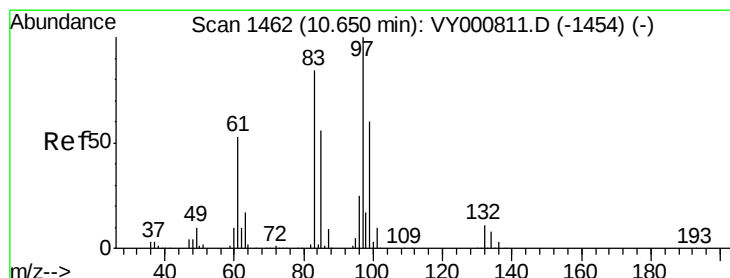
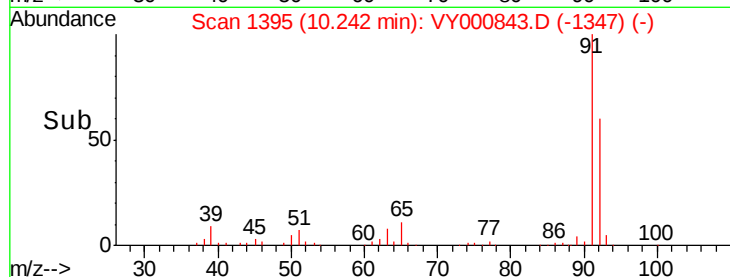
40000

20000

0

10.20 10.25 10.30

Time-->



#55

1,1,2-Trichloroethane

Concen: 1.313 ug/l

RT: 10.62 min Scan# 1457

Delta R.T. -0.03 min

Lab File: VY000843.D

Acq: 03 Dec 2019 17:03

Tgt Ion: 97 Resp: 3420

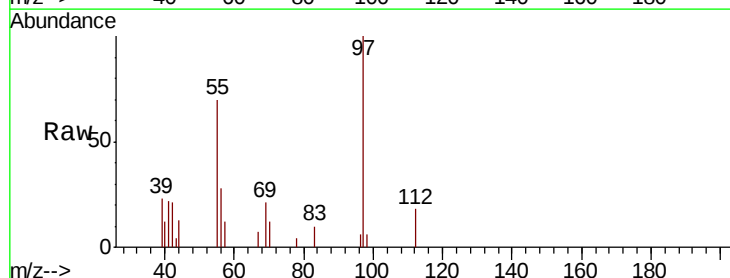
Ion Ratio Lower Upper

97 100

83 10.1 67.5 101.3#

85 0.0 44.5 66.7#

99 0.0 47.7 71.5#



Abundance Ion 96.90 (96.60 to 97.60): VY000843.D (-1413) (-)

Ion 82.90 (82.60 to 83.60): VY000843.D (-1413) (-)

Ion 84.90 (84.60 to 85.60): VY000843.D (-1413) (-)

Ion 98.90 (98.60 to 99.60): VY000843.D (-1413) (-)

3000

2500

2000

1500

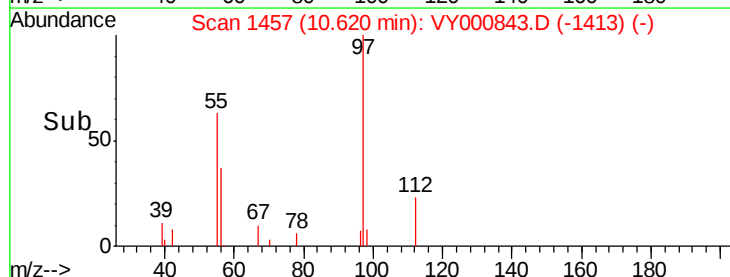
1000

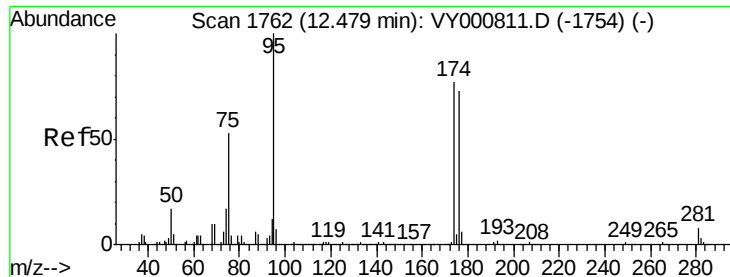
500

0

10.55 10.60 10.65

Time-->

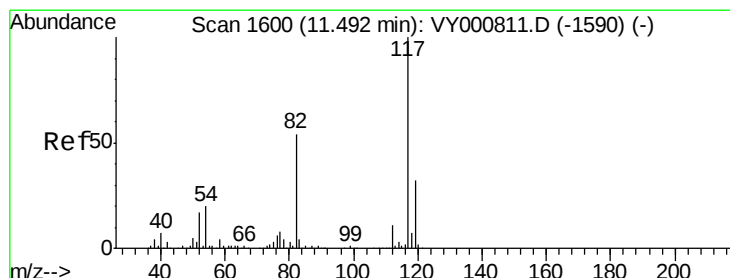
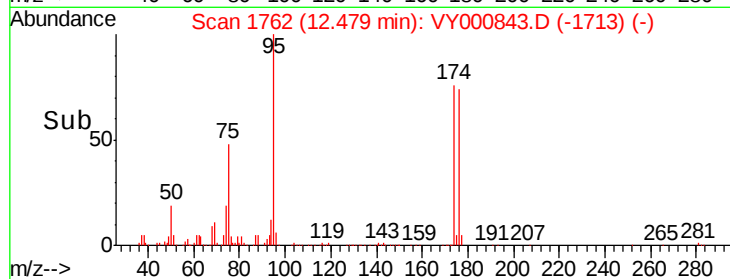
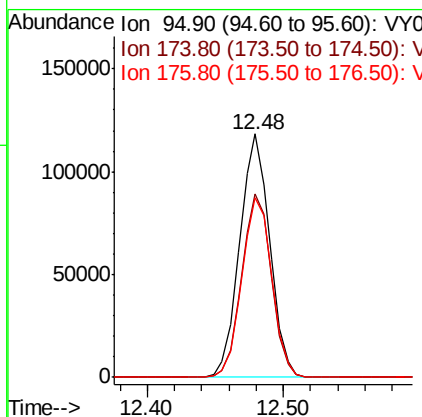
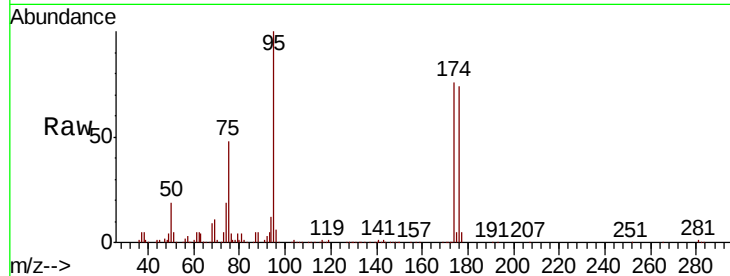




#62  
4-Bromofluorobenzene  
Concen: 44.787 ug/l  
RT: 12.48 min Scan# 1762  
Delta R.T. -0.00 min  
Lab File: VY000843.D  
Acq: 03 Dec 2019 17:03

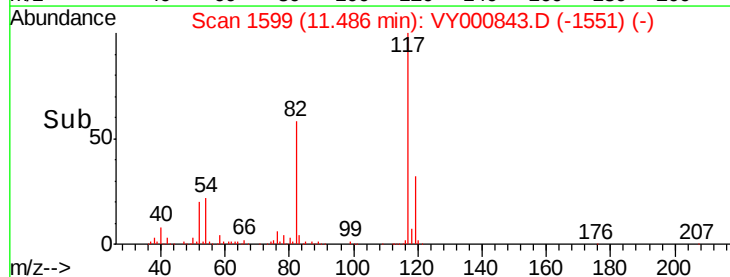
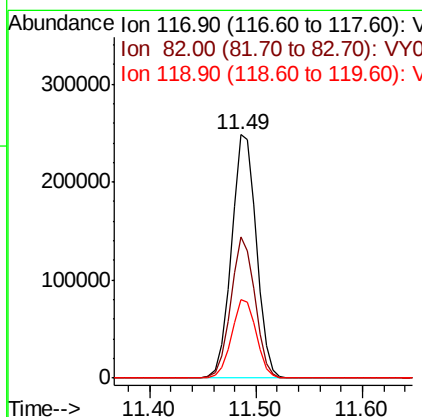
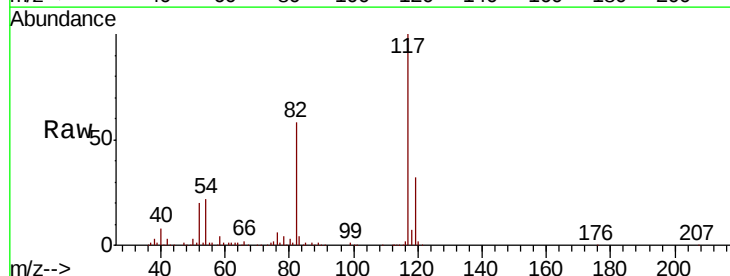
Instrument :  
MSVOA\_Y  
ClientSampleId :

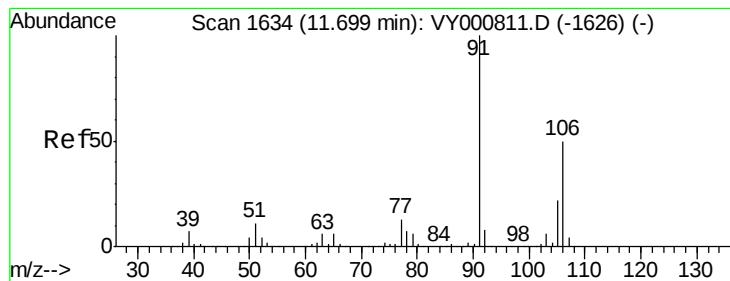
| Tot Ion   | 95    | Resp  | 181769 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 74.7  | 0.0   | 150.6  |
| 176       | 74.3  | 0.0   | 145.2  |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1599  
Delta R.T. -0.01 min  
Lab File: VY000843.D  
Acq: 03 Dec 2019 17:03

| Tgt Ion   | 117   | Resp  | 407213 |
|-----------|-------|-------|--------|
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 82        | 58.0  | 43.1  | 64.7   |
| 119       | 32.4  | 25.3  | 37.9   |





#68

m/p-Xvlenes

Concen: 4.826 ug/l

RT: 11.70 min Scan# 1634

Delta R.T. -0.00 min

Lab File: VY000843.D

Acq: 03 Dec 2019 17:03

Instrument :

MSVOA\_Y

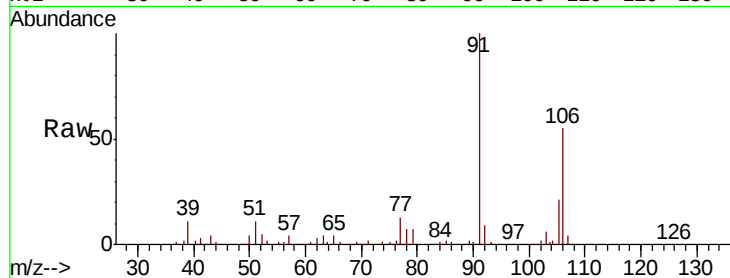
ClientSampleId :

Tot Ion:106 Resp: 28557

Ion Ratio Lower Upper

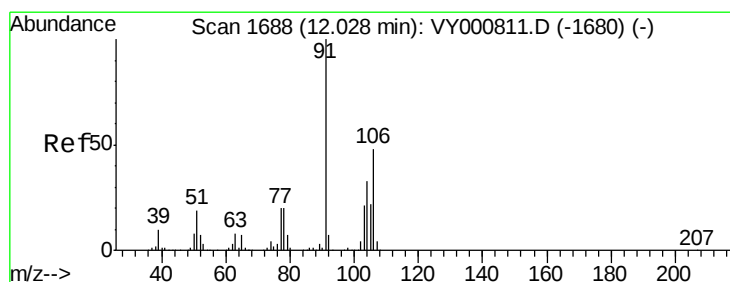
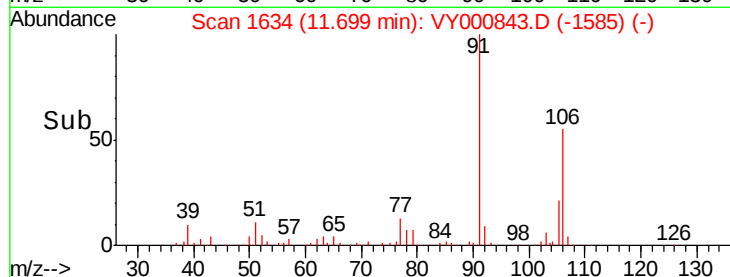
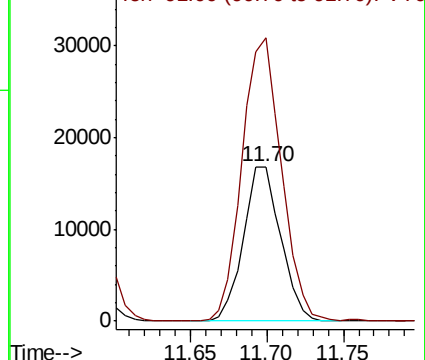
106 100

91 193.2 159.6 239.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0



#69

o-Xylene

Concen: 2.409 ug/l

RT: 12.03 min Scan# 1688

Delta R.T. -0.00 min

Lab File: VY000843.D

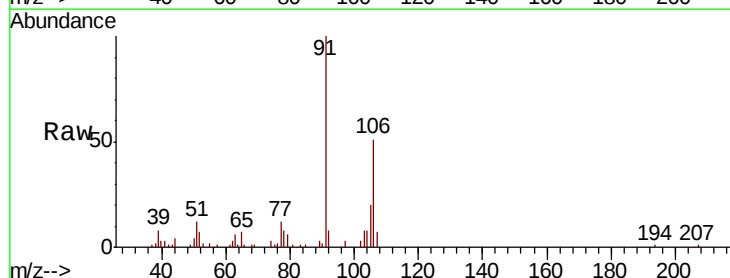
Acq: 03 Dec 2019 17:03

Tgt Ion:106 Resp: 13288

Ion Ratio Lower Upper

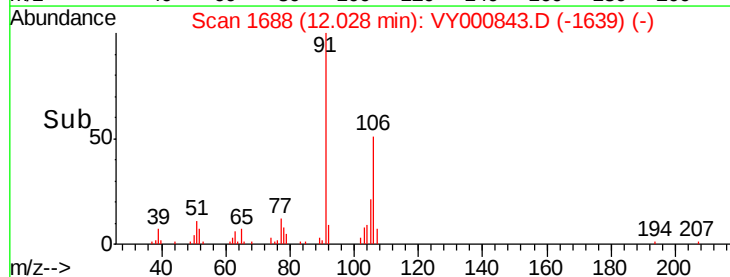
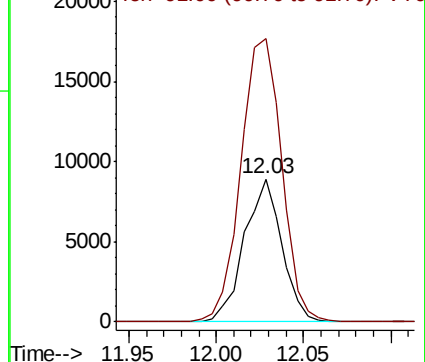
106 100

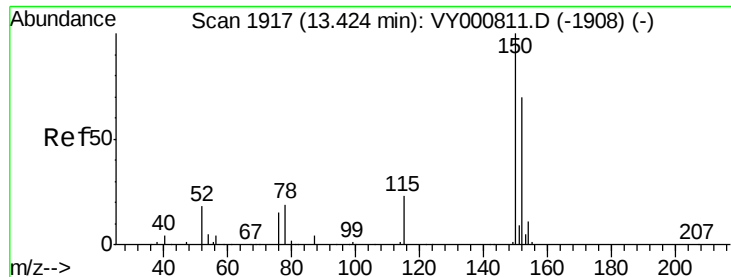
91 216.0 106.1 318.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VY0



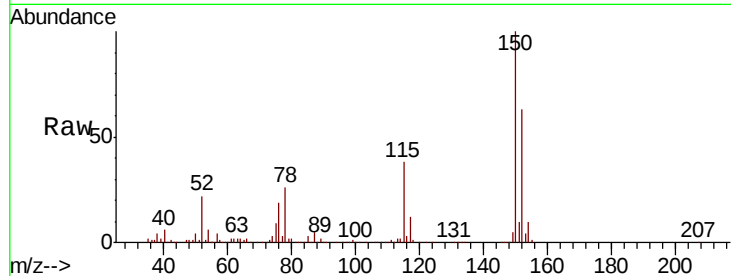


#72

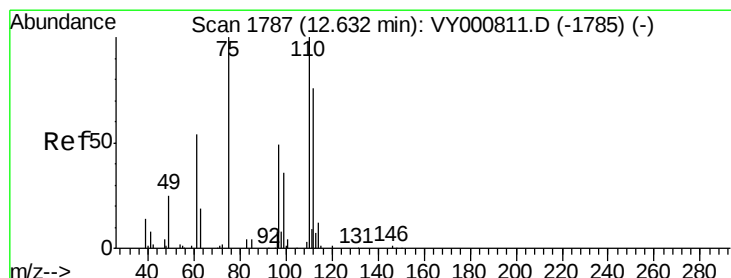
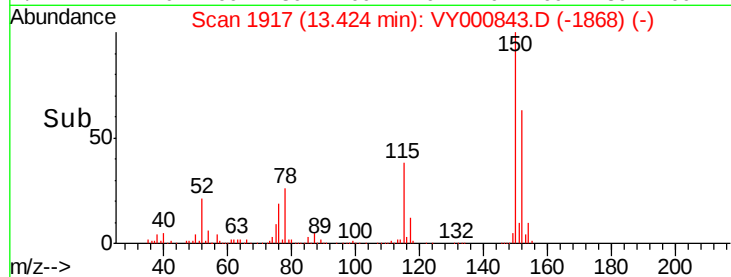
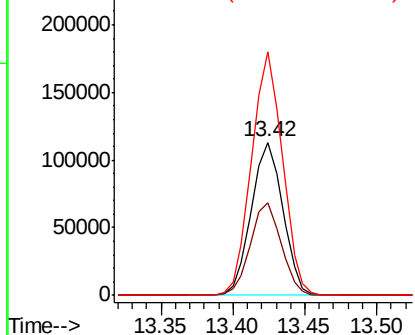
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1917  
Delta R.T. -0.00 min  
Lab File: VY000843.D  
Acq: 03 Dec 2019 17:03

Instrument :  
MSVOA\_Y  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 59.6  | 29.3  | 87.8  |
| 150     | 156.0 | 0.0   | 351.2 |



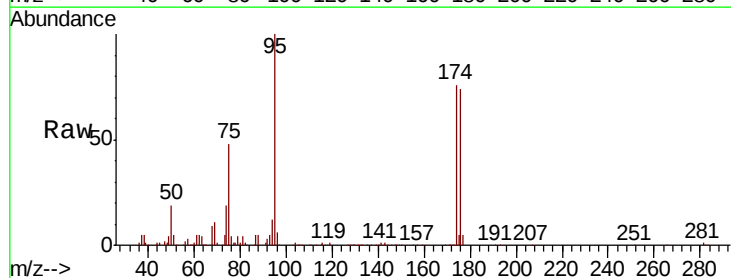
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



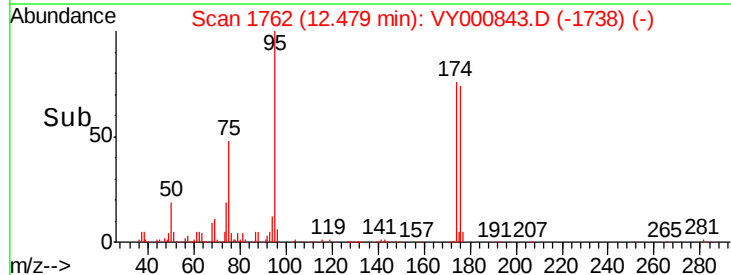
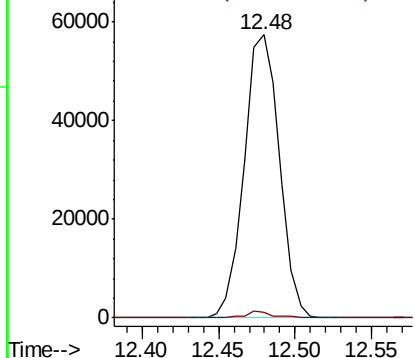
#76

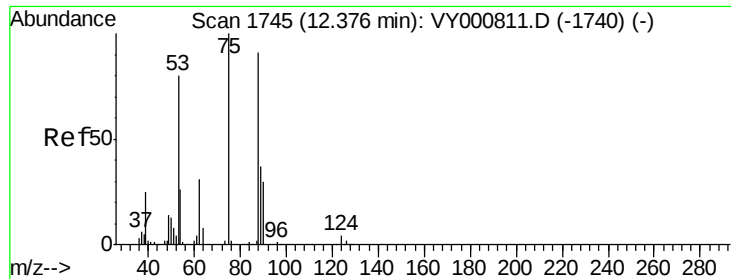
1,2,3-Trichloropropane  
Concen: 47.443 ug/l  
RT: 12.48 min Scan# 1762  
Delta R.T. -0.15 min  
Lab File: VY000843.D  
Acq: 03 Dec 2019 17:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 1.7   | 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: 93.192 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY000843.D

Acq: 03 Dec 2019 17:03

Instrument :

MSVOA\_Y

ClientSampleId :

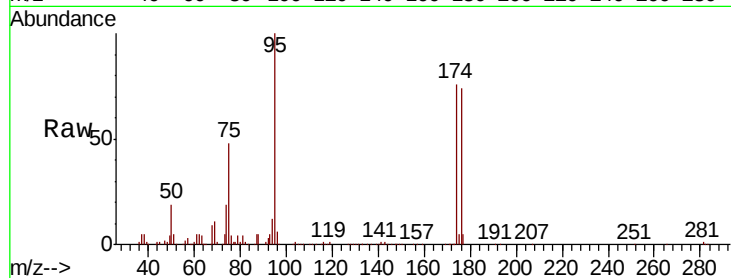
Tot Ion: 75 Resp: 91799

Ion Ratio Lower Upper

75 100

53 0.0 64.6 96.8#

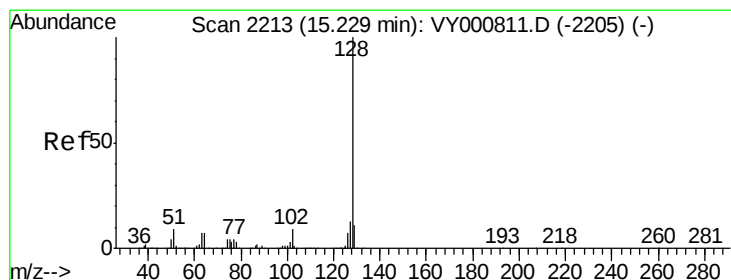
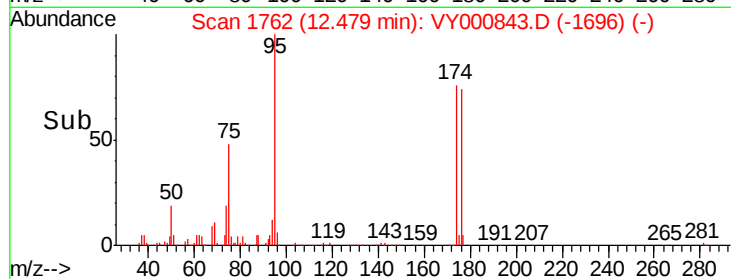
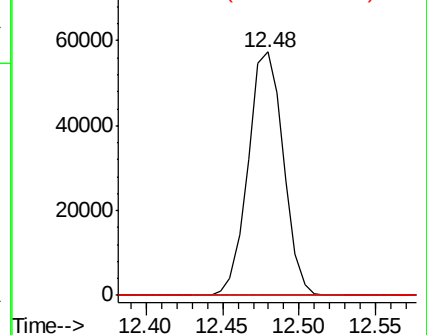
89 0.0 33.6 50.4#



Abundance Ion 74.90 (74.60 to 75.60): VY000843.D (-1740) (-)

Ion 53.00 (52.70 to 53.70): VY000843.D (-1740) (-)

Ion 88.90 (88.60 to 89.60): VY000843.D (-1740) (-)



#95

Naphthalene

Concen: 1.198 ug/l

RT: 15.23 min Scan# 2214

Delta R.T. 0.01 min

Lab File: VY000843.D

Acq: 03 Dec 2019 17:03

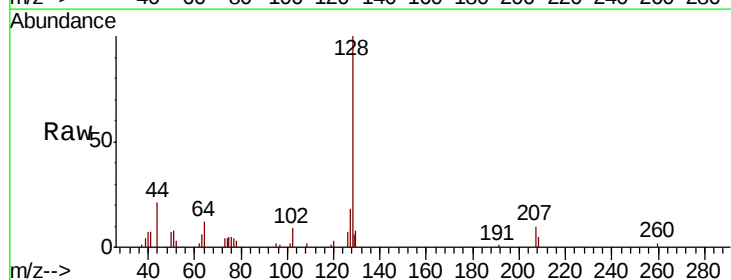
Tgt Ion: 128 Resp: 9793

Ion Ratio Lower Upper

128 100

127 15.5 10.1 15.1#

129 13.2 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): VY000843.D (-2164) (-)

Ion 127.00 (126.70 to 127.70): VY000843.D (-2164) (-)

Ion 129.00 (128.70 to 129.70): VY000843.D (-2164) (-)

