

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY022120\  
 Data File : VY001750.D  
 Acq On : 21 Feb 2020 18:02  
 Operator : SY/MD  
 Sample : L1635-20  
 Misc : 6.13G/5ML/MSVOA Y/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 LIED-TS007-01

Quant Time: Feb 22 04:58:01 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y021720S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 17 12:19:53 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.82  | 168  | 158986   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.71  | 114  | 298027   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.50 | 117  | 270571   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.44 | 152  | 120270   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.16  | 65   | 99475    | 58.17 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 116.34% |          |
| 35) Dibromofluoromethane    | 7.74  | 113  | 86257    | 50.53 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.06% |          |
| 50) Toluene-d8              | 10.19 | 98   | 362557   | 54.22 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 108.44% |          |
| 62) 4-Bromofluorobenzene    | 12.49 | 95   | 122295   | 47.07 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.14%  |          |

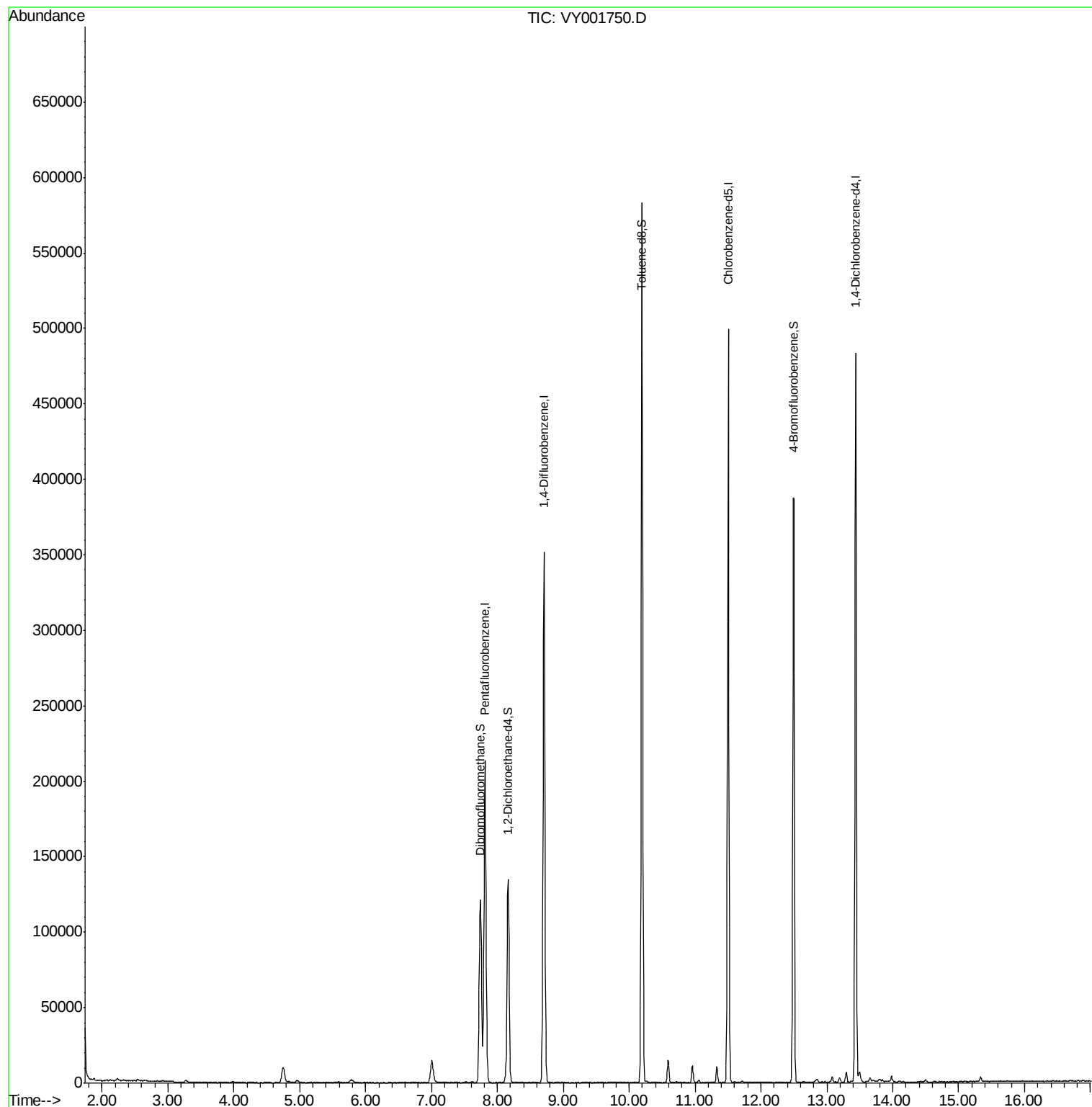
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

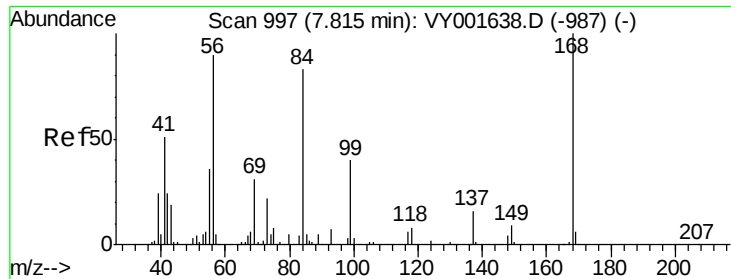
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Feb 17 12:19:53 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.82 min Scan# 997

Delta R.T. 0.00 min

Lab File: VY001750.D

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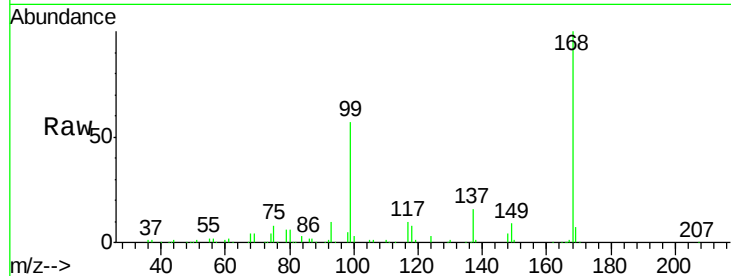
Instrument :  
MSVOA\_Y  
ClientSampleId :  
LIED-TS007-01

Tot Ion:168 Resp: 158986

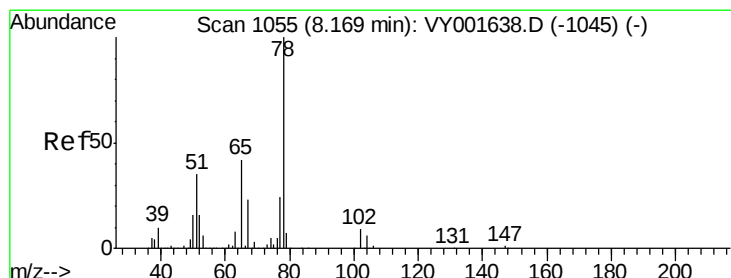
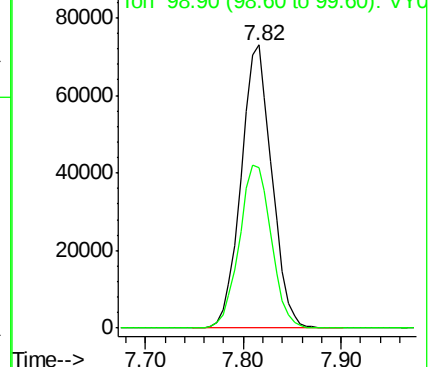
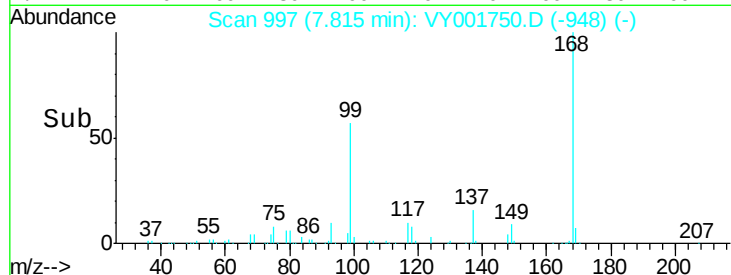
Ion Ratio Lower Upper

168 100

99 56.5 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): VY001750.D (-948) (-)



#33

1,2-Dichloroethane-d4

Concen: 58.168 ug/l

RT: 8.16 min Scan# 1054

Delta R.T. -0.01 min

Lab File: VY001750.D

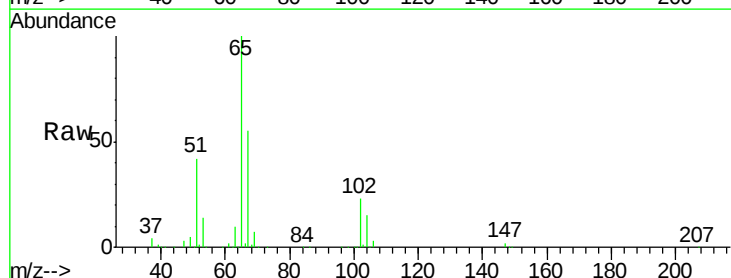
Acq: 21 Feb 2020 18:02

Tgt Ion: 65 Resp: 99475

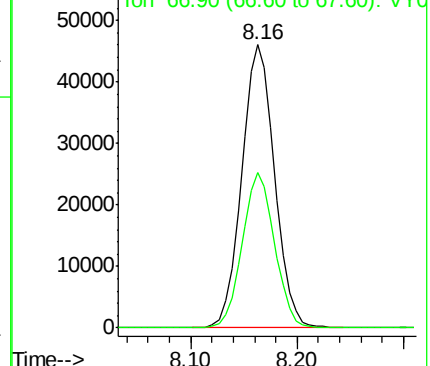
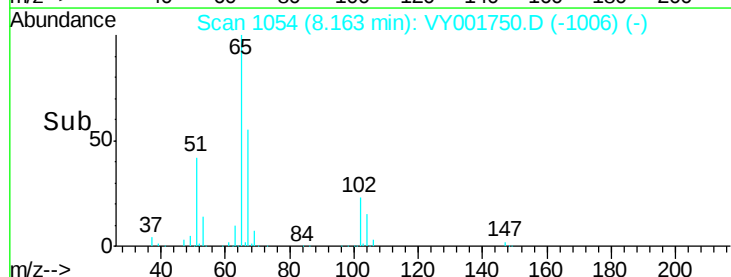
Ion Ratio Lower Upper

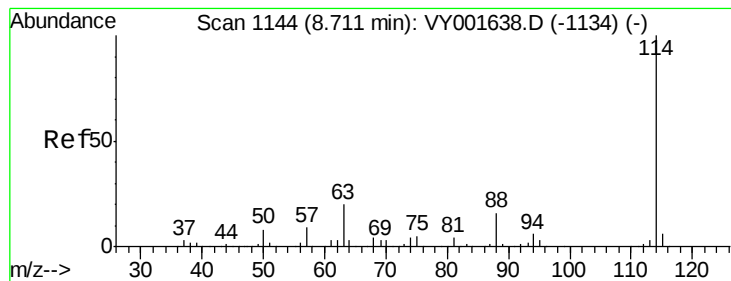
65 100

67 54.0 0.0 111.0



Abundance Ion 64.90 (64.60 to 65.60): VY001750.D (-1006) (-)





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.71 min Scan# 1143

Delta R.T. -0.01 min

Lab File: VY001750.D

Acq: 21 Feb 2020 18:02

Instrument :

MSVOA\_Y

ClientSampleId :

LIED-TS007-01

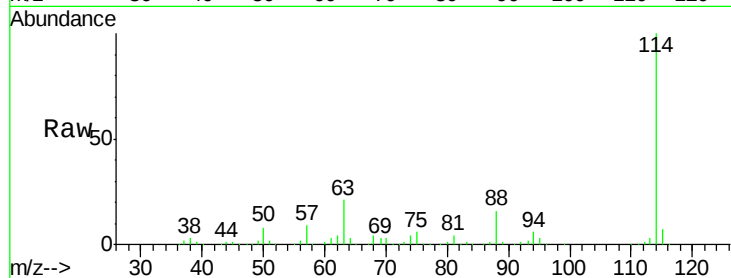
Tot Ion:114 Resp: 298027

Ion Ratio Lower Upper

114 100

63 21.2 0.0 41.4

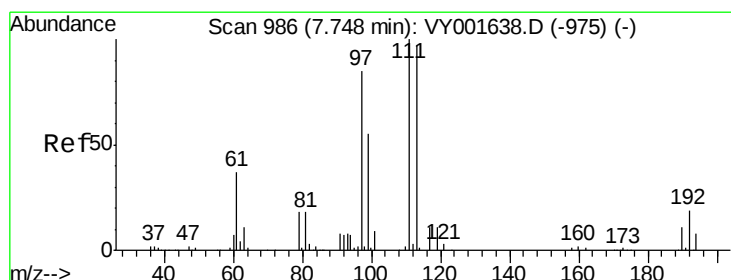
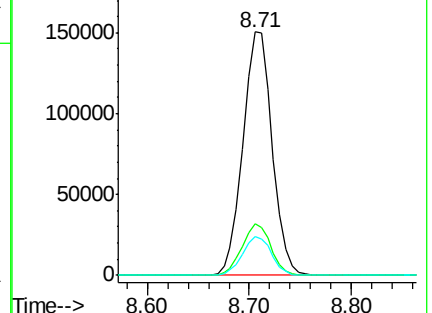
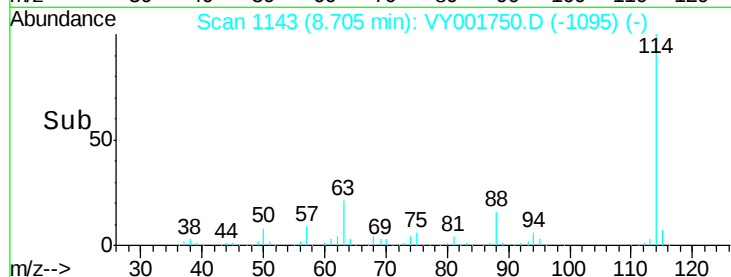
88 15.9 0.0 32.8



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: 50.532 ug/l

RT: 7.74 min Scan# 985

Delta R.T. -0.01 min

Lab File: VY001750.D

Acq: 21 Feb 2020 18:02

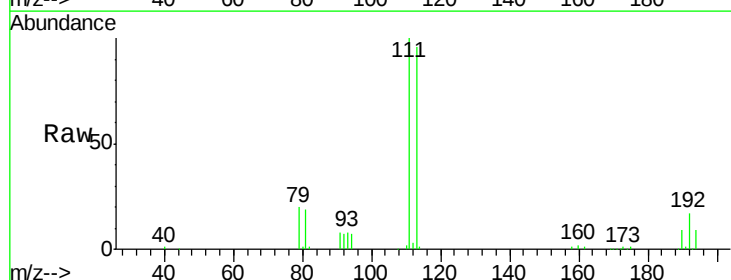
Tgt Ion:113 Resp: 86257

Ion Ratio Lower Upper

113 100

111 103.5 81.9 122.9

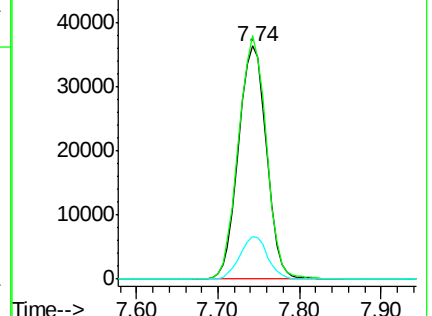
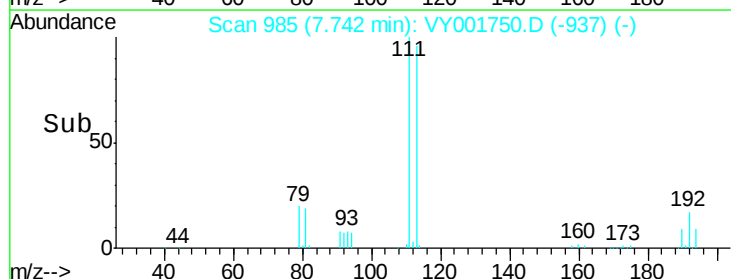
192 18.0 14.3 21.5

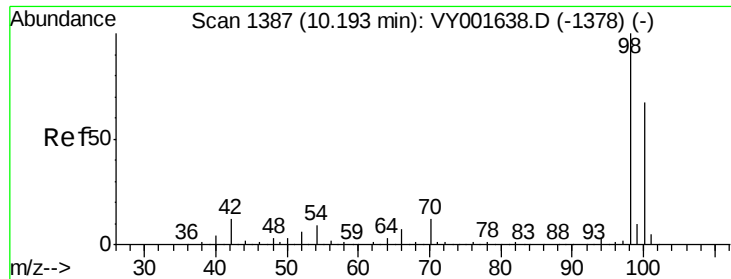


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#50

Toluene-d8

Concen: 54.215 ug/l

RT: 10.19 min Scan# 1387

Delta R.T. 0.00 min

Lab File: VY001750.D

Acq: 21 Feb 2020 18:02

Instrument :

MSVOA\_Y

ClientSampleId :

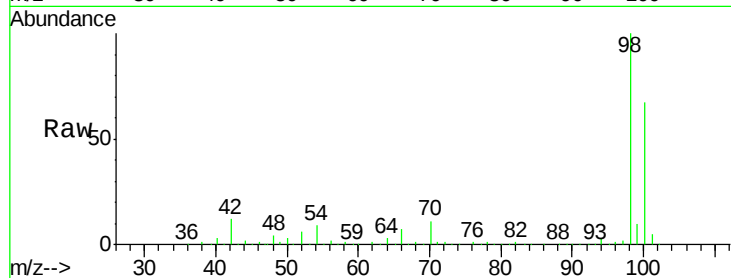
LIED-TS007-01

Tot Ion: 98 Resp: 362557

Ion Ratio Lower Upper

98 100

100 66.1 53.0 79.4



Abundance Ion 98.00 (97.70 to 98.70): VY001638.D (-1378) (-)

Ion 100.00 (99.70 to 100.70): VY001750.D (-1338) (-)

10.19

250000

200000

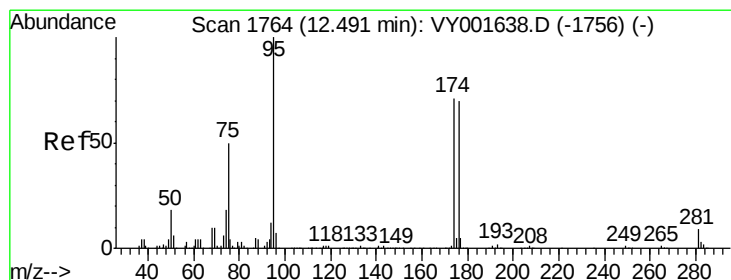
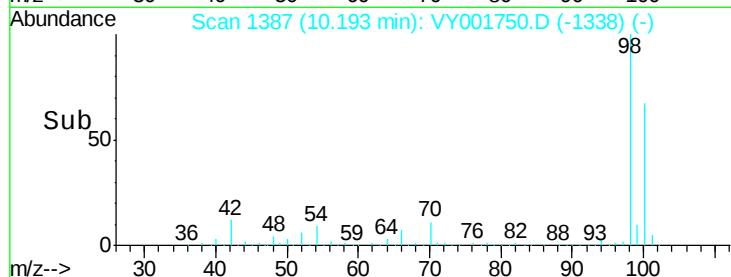
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 47.073 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.00 min

Lab File: VY001750.D

Acq: 21 Feb 2020 18:02

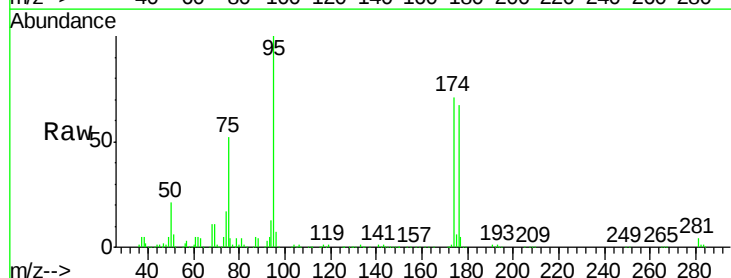
Tgt Ion: 95 Resp: 122295

Ion Ratio Lower Upper

95 100

174 74.3 0.0 138.4

176 71.8 0.0 131.8



Abundance Ion 94.90 (94.60 to 95.60): VY001638.D (-1756) (-)

Ion 173.80 (173.50 to 174.50): VY001750.D (-1715) (-)

Ion 175.80 (175.50 to 176.50): VY001750.D (-1715) (-)

12.49

100000

80000

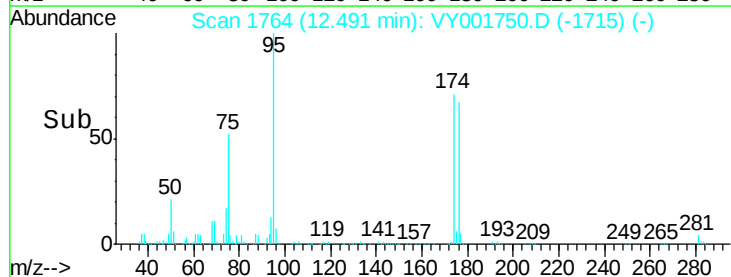
60000

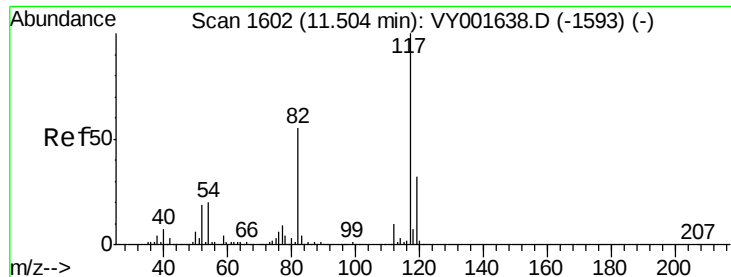
40000

20000

0

Time-->

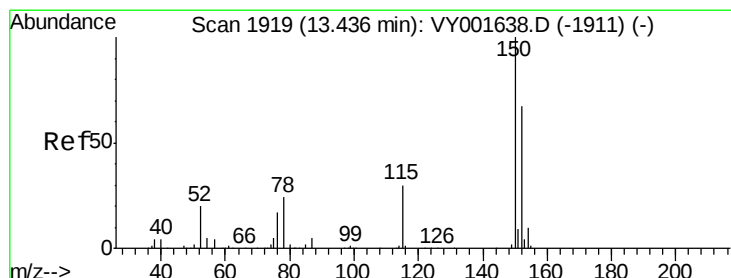
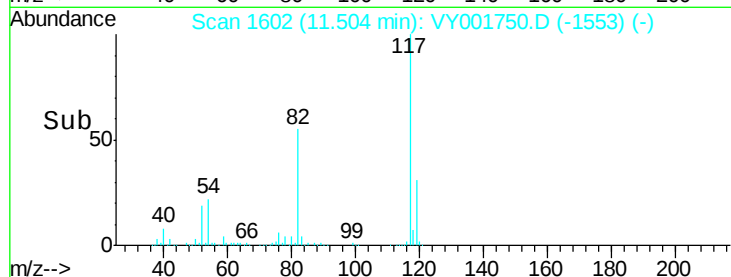
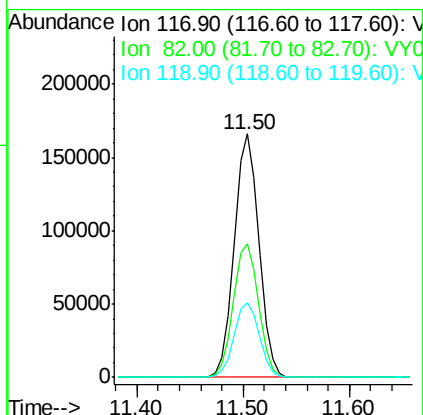
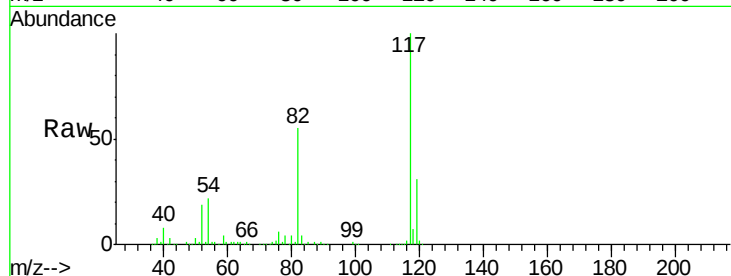




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.50 min Scan# 1602  
Delta R.T. 0.00 min  
Lab File: VY001750.D  
Acq: 21 Feb 2020 18:02

Instrument :  
MSVOA\_Y  
ClientSampleId :  
LIED-TS007-01

Tot Ion:117 Resp: 270571  
Ion Ratio Lower Upper  
117 100  
82 54.7 45.5 68.3  
119 30.6 25.8 38.6



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.44 min Scan# 1919  
Delta R.T. 0.00 min  
Lab File: VY001750.D  
Acq: 21 Feb 2020 18:02

Tgt Ion:152 Resp: 120270  
Ion Ratio Lower Upper  
152 100  
115 60.7 31.4 94.2  
150 154.4 0.0 407.2

