

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF012919\  
 Data File : BF112297.D  
 Acq On : 29 Jan 2019 16:11  
 Operator : JU/SJ  
 Sample : K1010-09 5X  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OK-03-012819-B

Quant Time: Jan 30 00:08:56 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF012519.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jan 28 10:38:18 2019  
 Response via : Initial Calibration

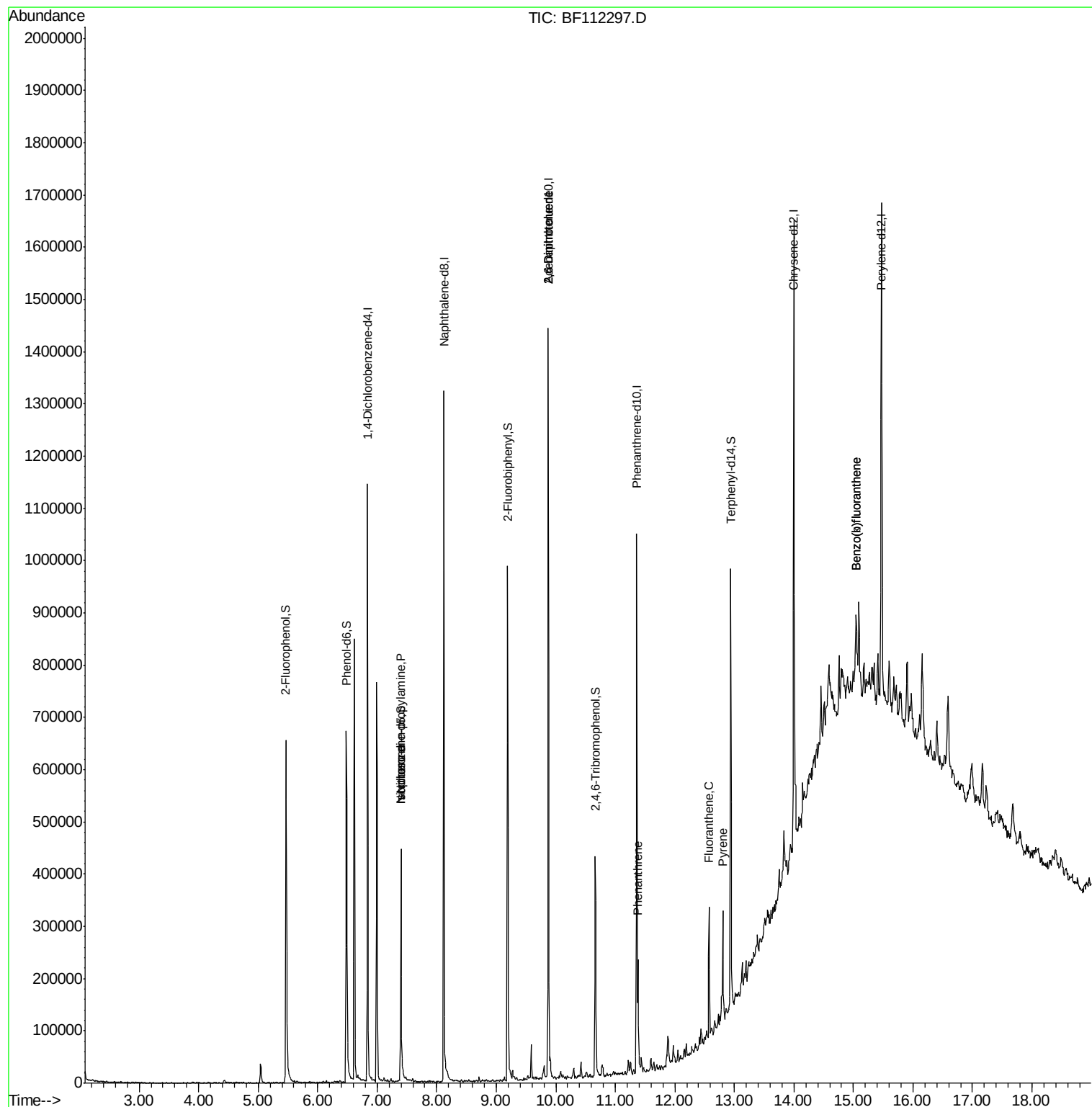
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.84  | 152  | 172633   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.12  | 136  | 639832   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.87  | 164  | 265412   | 20.00 | ng    | -0.01    |
| 64) Phenanthrene-d10           | 11.36 | 188  | 425251   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12               | 14.00 | 240  | 414281   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12               | 15.47 | 264  | 403201   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.47  | 112  | 217460   | 26.76 | ng    | -0.01    |
| 7) Phenol-d6                   | 6.48  | 99   | 271240   | 24.02 | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.40  | 82   | 161033   | 14.50 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol       | 10.67 | 330  | 56798    | 18.39 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl           | 9.19  | 172  | 329579   | 17.56 | ng    | -0.01    |
| 79) Terphenyl-d14              | 12.94 | 244  | 262631   | 11.94 | ng    | -0.01    |
| Target Compounds               |       |      |          |       |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.40  | 70   | 22479    | 2.887 | ng    | # 73     |
| 25) Isophorone                 | 7.40  | 82   | 161031   | 9.244 | ng    | # 64     |
| 51) 2,6-Dinitrotoluene         | 9.87  | 165  | 35536    | 7.695 | ng    | # 34     |
| 57) 2,4-Dinitrotoluene         | 9.87  | 165  | 35536    | 6.044 | ng    | # 32     |
| 71) Phenanthrene               | 11.39 | 178  | 81440    | 3.684 | ng    | 96       |
| 75) Fluoranthene               | 12.57 | 202  | 93371    | 3.938 | ng    | 97       |
| 78) Pyrene                     | 12.80 | 202  | 74658    | 2.603 | ng    | 97       |
| 88) Benzo(b)fluoranthene       | 15.04 | 252  | 62715    | 2.601 | ng    | # 65     |
| 89) Benzo(k)fluoranthene       | 15.04 | 252  | 62715    | 2.715 | ng    | # 66     |

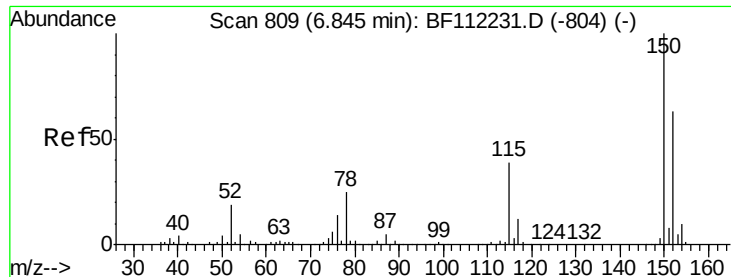
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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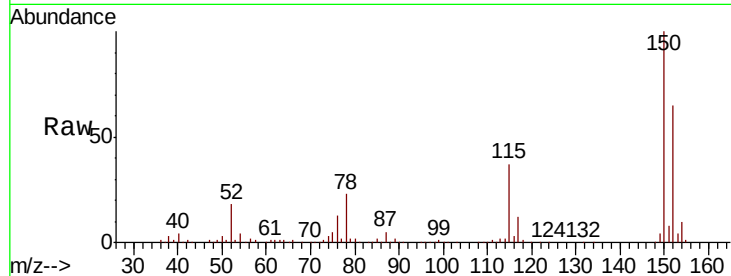


#1

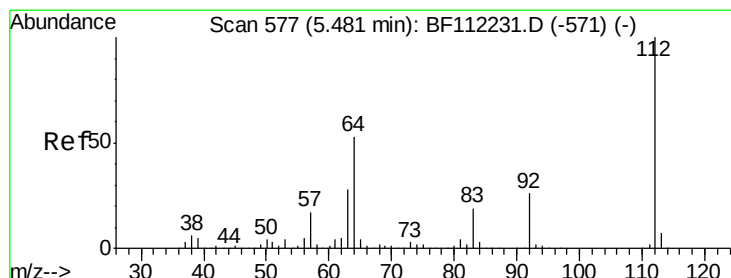
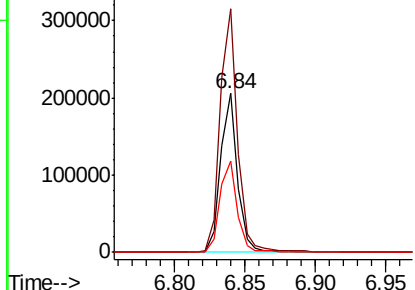
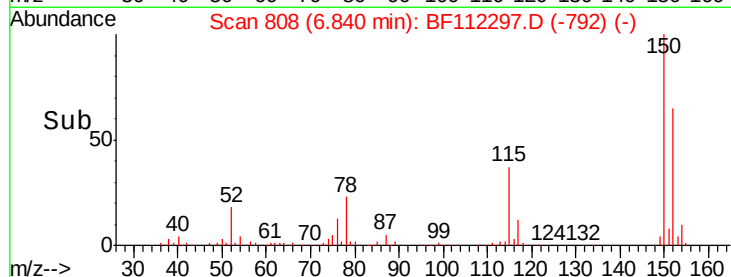
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.84 min Scan# 808  
 Delta R.T. -0.01 min  
 Lab File: BF112297.D  
 Acq: 29 Jan 2019 16:11

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OK-03-012819-B

Tgt Ion:152 Resp: 172633  
 Ion Ratio Lower Upper  
 152 100  
 150 153.1 127.4 191.0  
 115 57.2 45.5 68.3



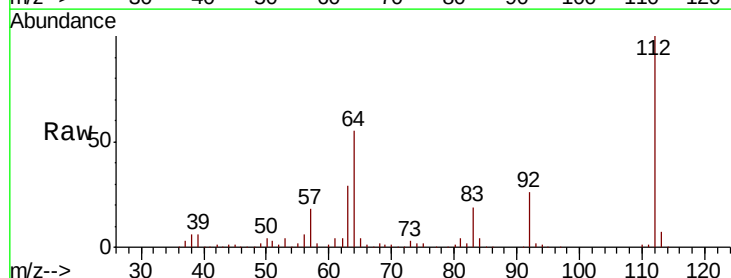
Abundance Ion 152.00 (151.70 to 152.70): E  
 Ion 150.00 (149.70 to 150.70): E  
 Ion 115.00 (114.70 to 115.70): E



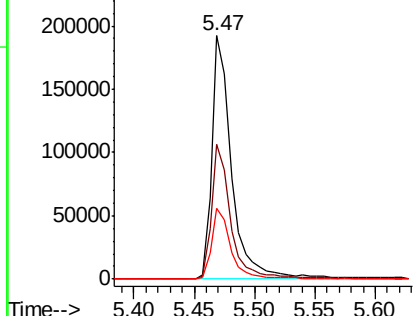
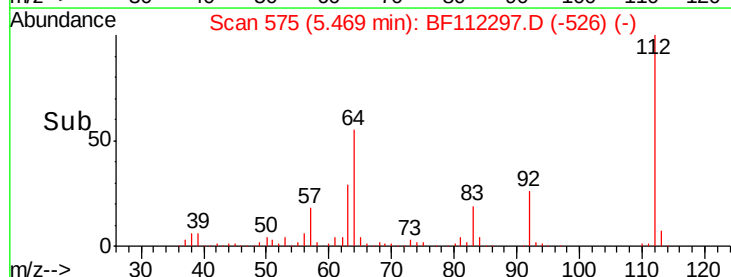
#5

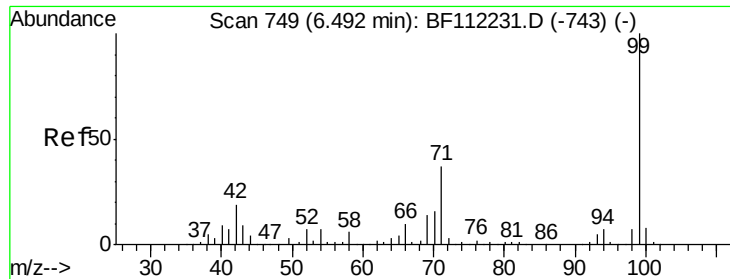
2-Fluorophenol  
 Concen: 26.756 ng  
 RT: 5.47 min Scan# 575  
 Delta R.T. -0.01 min  
 Lab File: BF112297.D  
 Acq: 29 Jan 2019 16:11

Tgt Ion:112 Resp: 217460  
 Ion Ratio Lower Upper  
 112 100  
 64 55.4 45.7 68.5  
 63 29.3 23.6 35.4



Abundance Ion 112.00 (111.70 to 112.70): E  
 Ion 64.00 (63.70 to 64.70): BF1  
 Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 24.017 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF112297.D

Acq: 29 Jan 2019 16:11

Instrument :

BNA\_F

ClientSampleId :

OK-03-012819-B

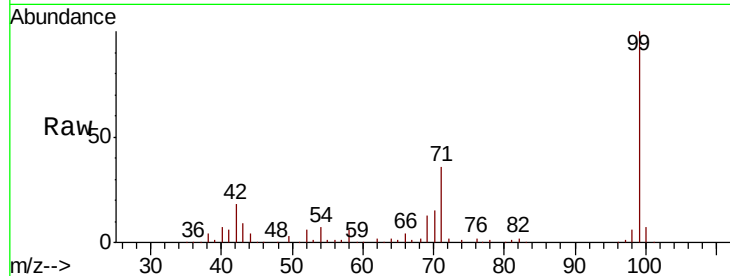
Tgt Ion: 99 Resp: 271240

Ion Ratio Lower Upper

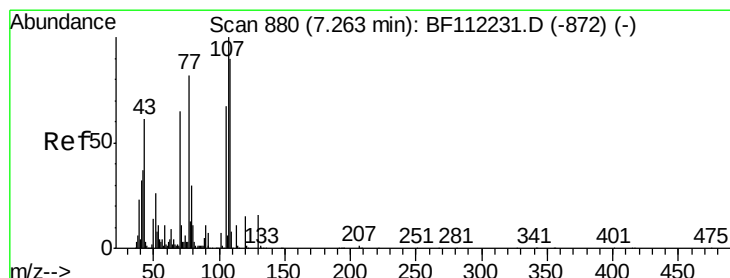
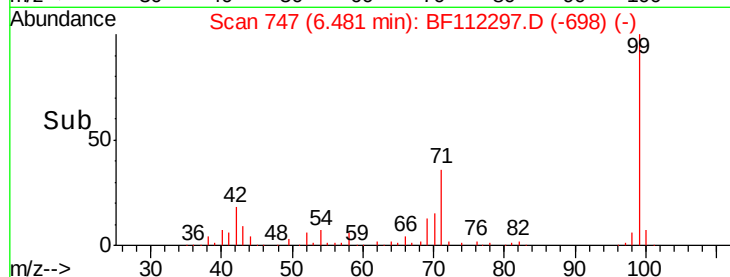
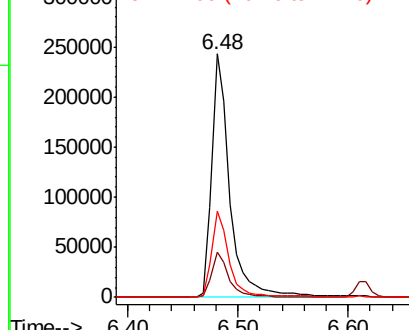
99 100

42 18.3 15.1 22.7

71 35.6 26.9 40.3



Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 2.887 ng

RT: 7.40 min Scan# 903

Delta R.T. 0.14 min

Lab File: BF112297.D

Acq: 29 Jan 2019 16:11

Tgt Ion: 70 Resp: 22479

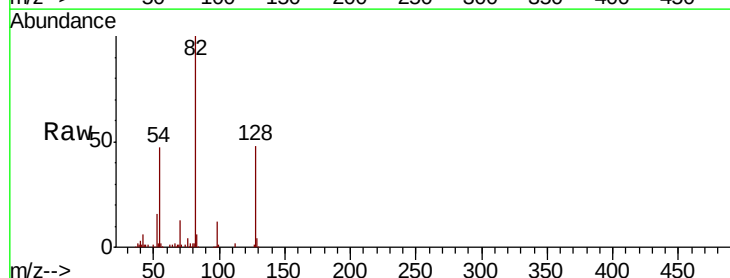
Ion Ratio Lower Upper

70 100

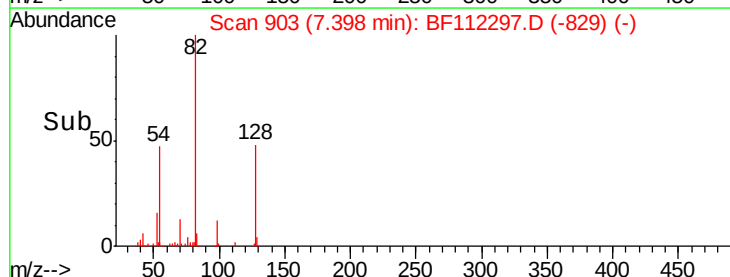
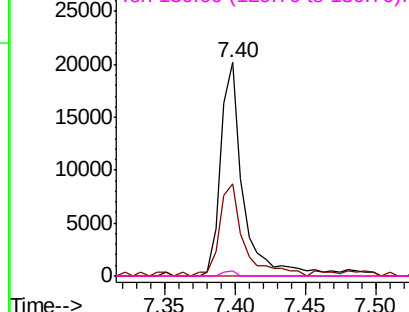
42 43.1 47.6 71.4#

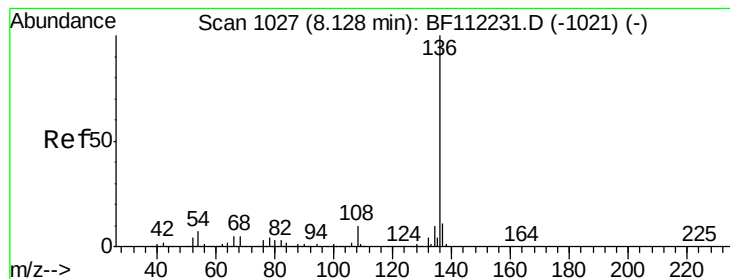
101 0.0 7.9 11.9#

130 2.6 18.4 27.6#



Abundance Ion 70.00 (69.70 to 70.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 101.00 (100.70 to 101.70): BF1  
Ion 130.00 (129.70 to 130.70): BF1





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.12 min Scan# 1026

Delta R.T. -0.01 min

Lab File: BF112297.D

Acq: 29 Jan 2019 16:11

Instrument :

BNA\_F

ClientSampleId :

OK-03-012819-B

Tgt Ion: 136 Resp: 639832

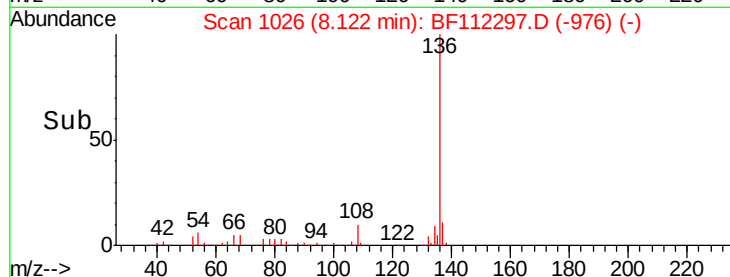
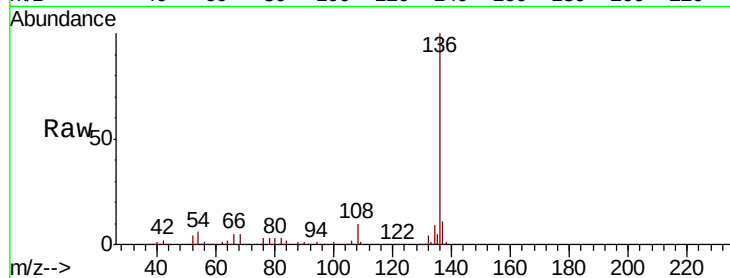
Ion Ratio Lower Upper

136 100

137 10.7 9.1 13.7

54 5.9 5.9 8.9

68 4.7 5.1 7.7#



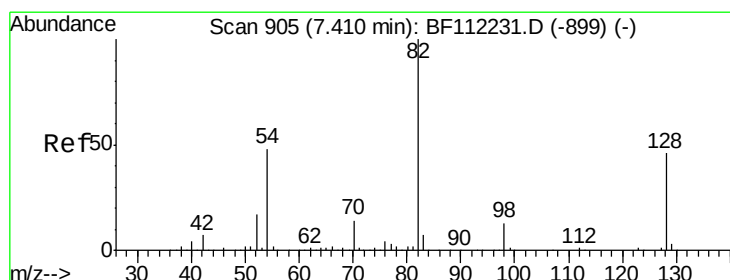
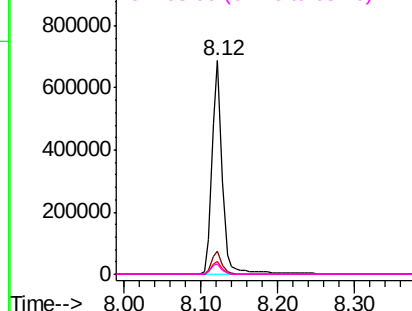
Abundance

Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 14.502 ng

RT: 7.40 min Scan# 903

Delta R.T. -0.01 min

Lab File: BF112297.D

Acq: 29 Jan 2019 16:11

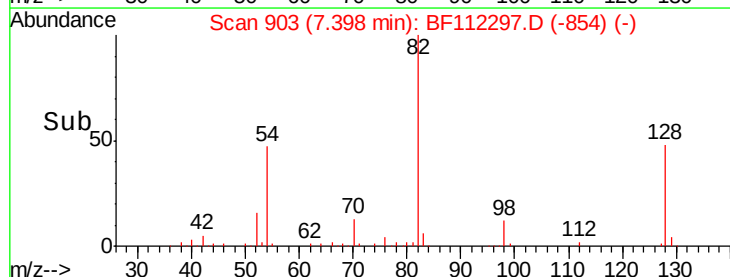
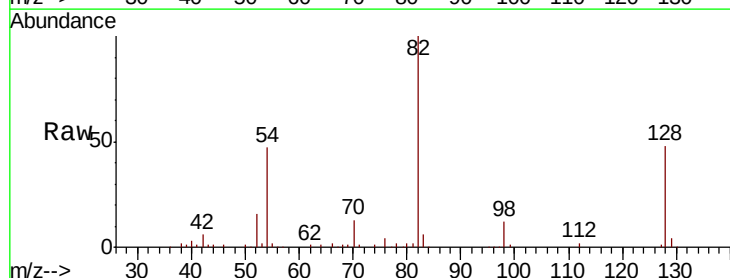
Tgt Ion: 82 Resp: 161033

Ion Ratio Lower Upper

82 100

128 48.4 37.8 56.8

54 46.8 39.7 59.5

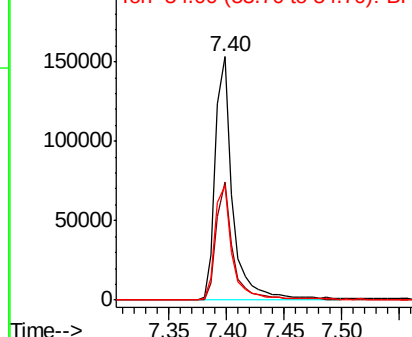


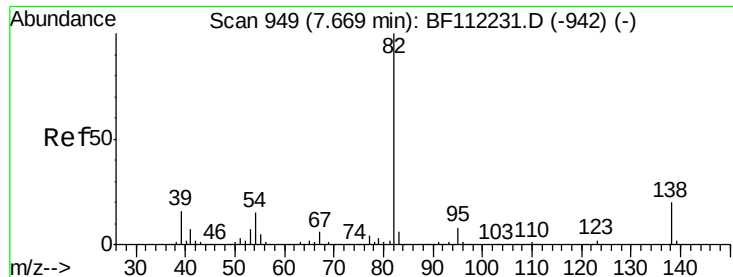
Abundance

Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 9.244 ng

RT: 7.40 min Scan# 903

Delta R.T. -0.27 min

Lab File: BF112297.D

Acq: 29 Jan 2019 16:11

Instrument :

BNA\_F

ClientSampleId :

OK-03-012819-B

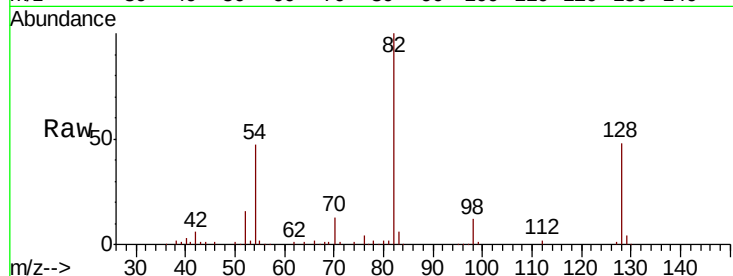
Tgt Ion: 82 Resp: 161031

Ion Ratio Lower Upper

82 100

95 0.2 5.7 8.5#

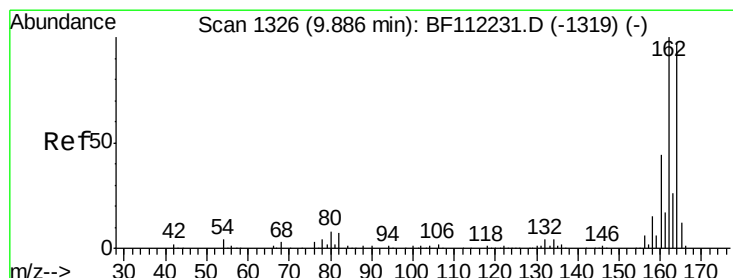
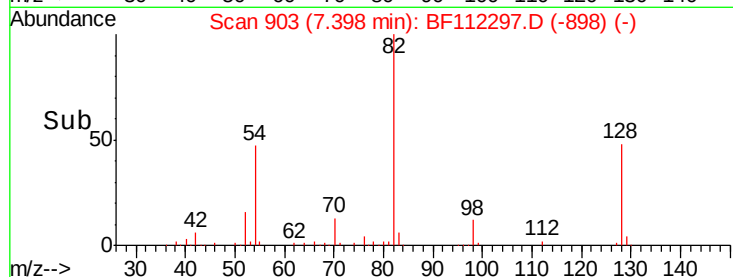
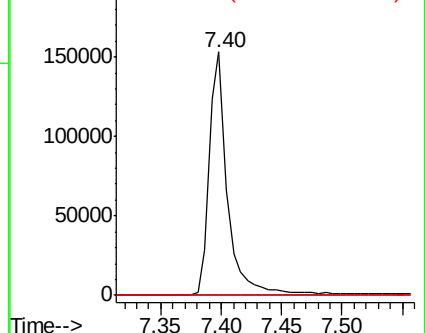
138 0.0 15.4 23.0#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.87 min Scan# 1324

Delta R.T. -0.01 min

Lab File: BF112297.D

Acq: 29 Jan 2019 16:11

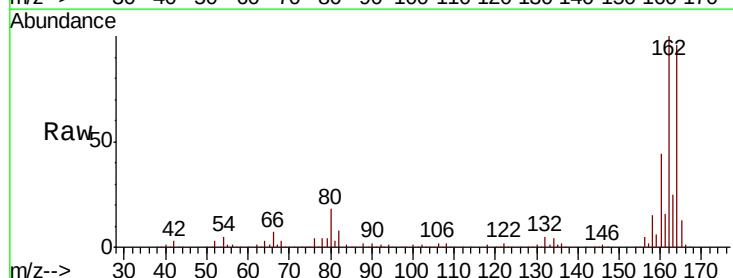
Tgt Ion: 164 Resp: 265412

Ion Ratio Lower Upper

164 100

162 104.6 82.2 123.4

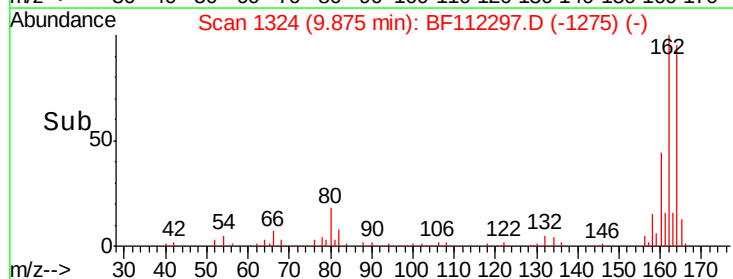
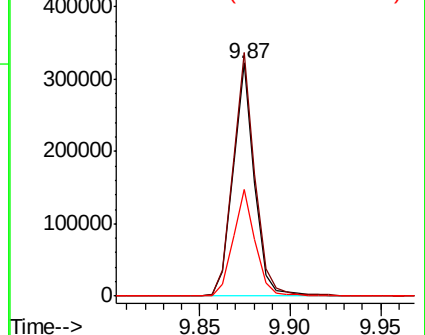
160 45.6 36.2 54.4

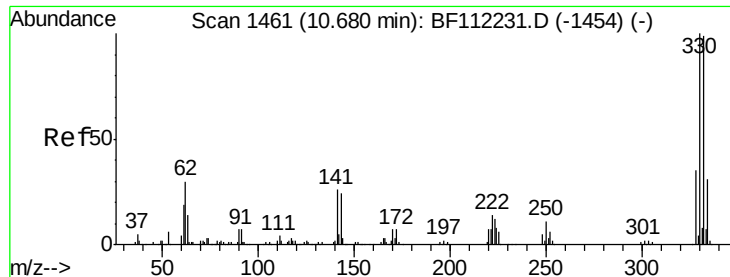


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#42

2,4,6-Tribromophenol

Concen: 18.385 ng

RT: 10.67 min Scan# 1459

Delta R.T. -0.01 min

Lab File: BF112297.D

Acq: 29 Jan 2019 16:11

Instrument :

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ClientSampleId :

OK-03-012819-B

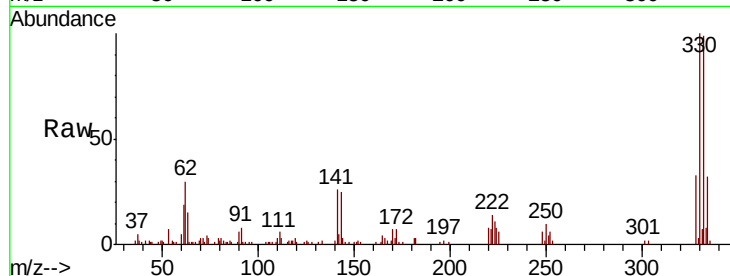
Tgt Ion:330 Resp: 56798

Ion Ratio Lower Upper

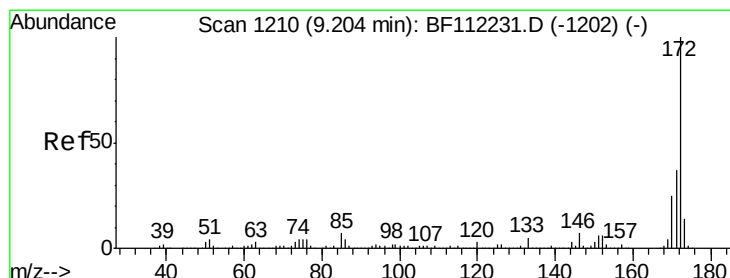
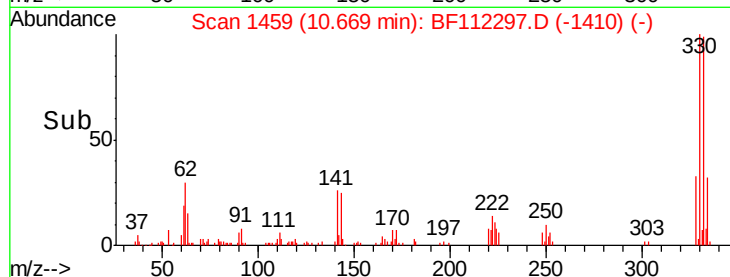
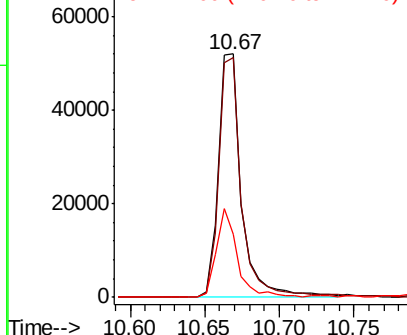
330 100

332 98.6 76.6 114.8

141 33.1 24.3 36.5



Abundance Ion 329.80 (329.50 to 330.50): E  
Ion 331.80 (331.50 to 332.50): E  
Ion 141.00 (140.70 to 141.70): E



#45

2-Fluorobiphenyl

Concen: 17.563 ng

RT: 9.19 min Scan# 1208

Delta R.T. -0.01 min

Lab File: BF112297.D

Acq: 29 Jan 2019 16:11

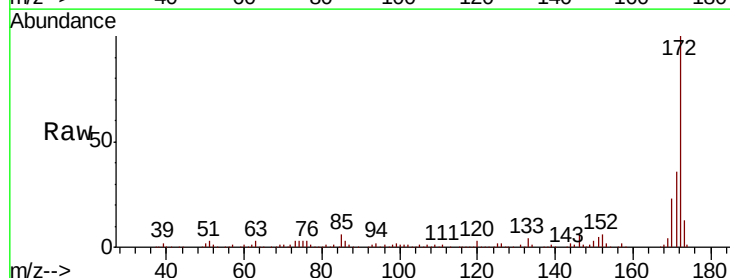
Tgt Ion:172 Resp: 329579

Ion Ratio Lower Upper

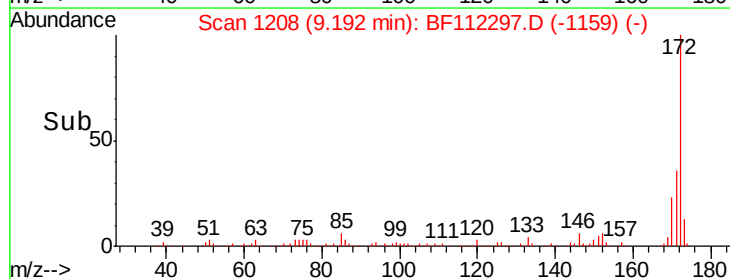
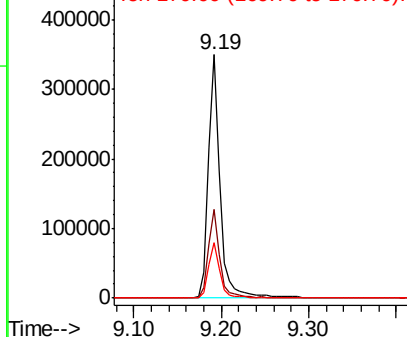
172 100

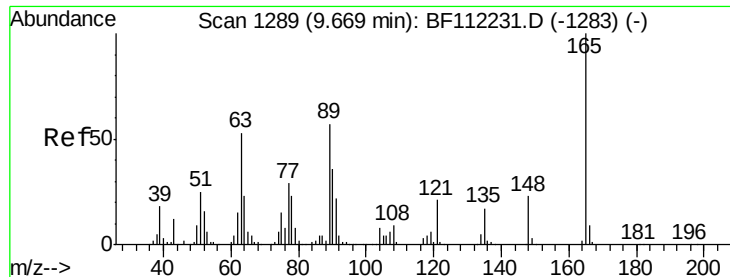
171 36.2 30.5 45.7

170 22.7 20.2 30.4



Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E





#51

2,6-Dinitrotoluene

Concen: 7.695 ng

RT: 9.87 min Scan# 1324

Delta R.T. 0.21 min

Lab File: BF112297.D

Acq: 29 Jan 2019 16:11

Instrument :

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OK-03-012819-B

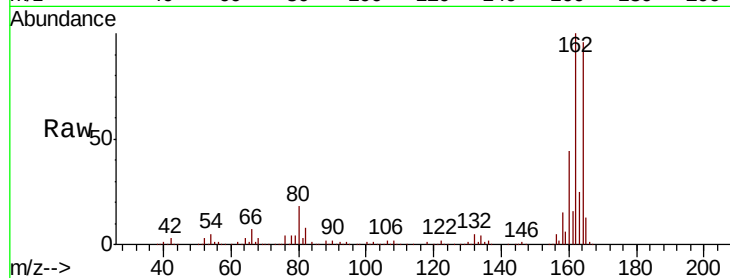
Tgt Ion:165 Resp: 35536

Ion Ratio Lower Upper

165 100

63 1.3 33.8 50.8#

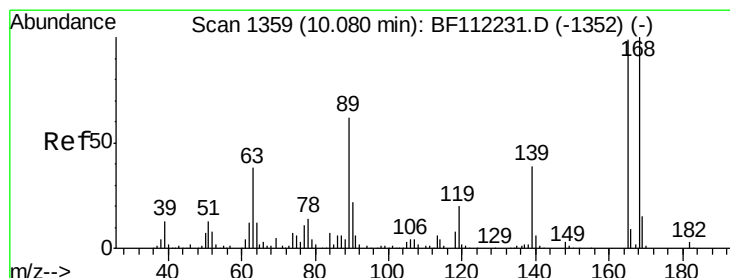
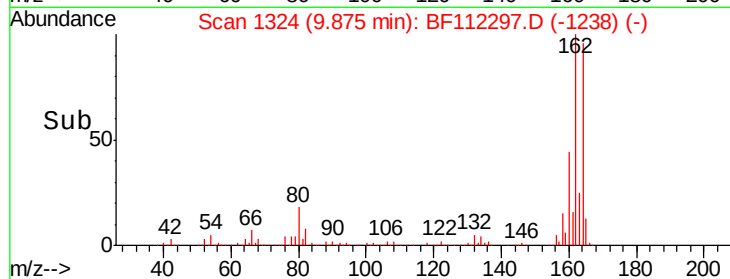
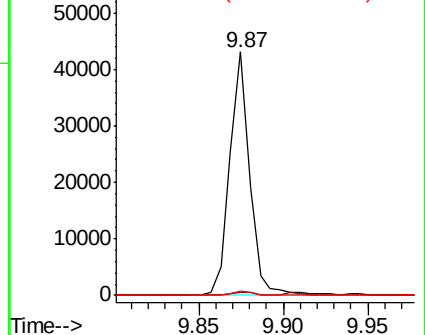
89 1.5 36.9 55.3#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1



#57

2,4-Dinitrotoluene

Concen: 6.044 ng

RT: 9.87 min Scan# 1324

Delta R.T. -0.21 min

Lab File: BF112297.D

Acq: 29 Jan 2019 16:11

Tgt Ion:165 Resp: 35536

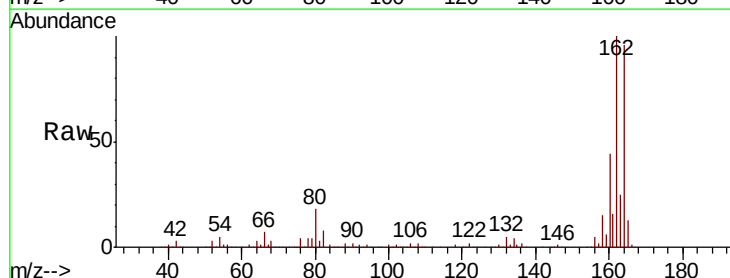
Ion Ratio Lower Upper

165 100

63 1.3 27.9 41.9#

89 1.5 47.9 71.9#

182 0.0 2.2 3.4#

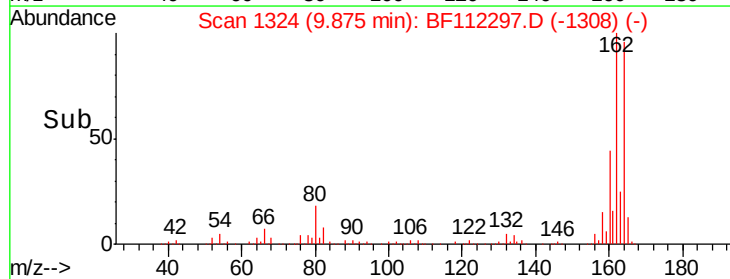
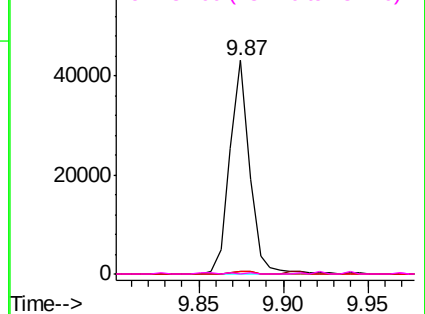


Abundance Ion 165.00 (164.70 to 165.70): E

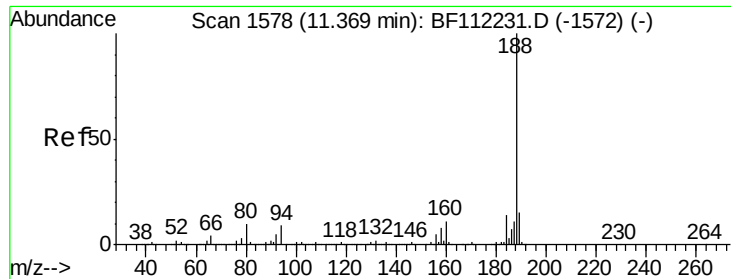
Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



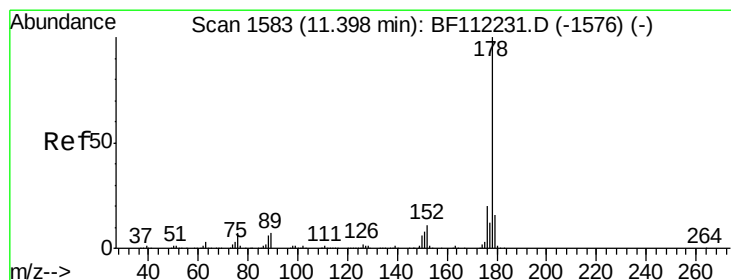
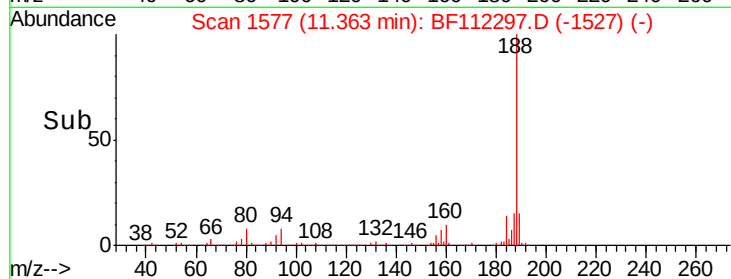
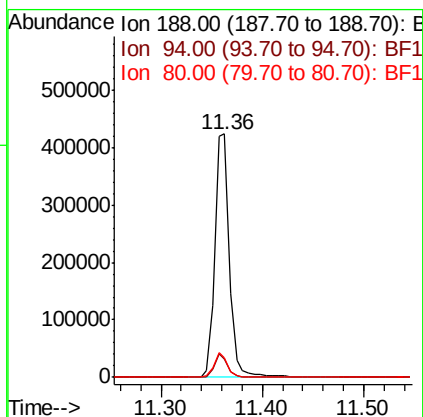
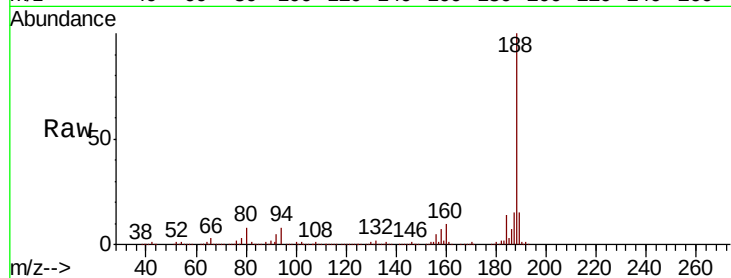




#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.36 min Scan# 1577  
Delta R.T. -0.01 min  
Lab File: BF112297.D  
Acq: 29 Jan 2019 16:11

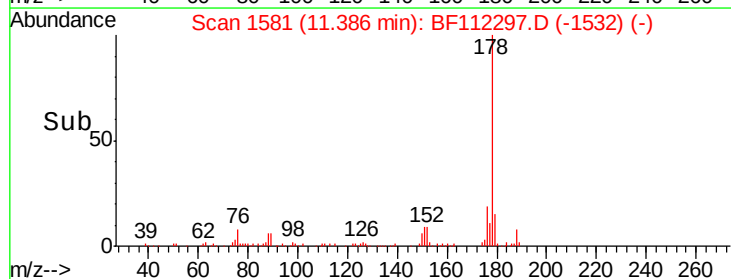
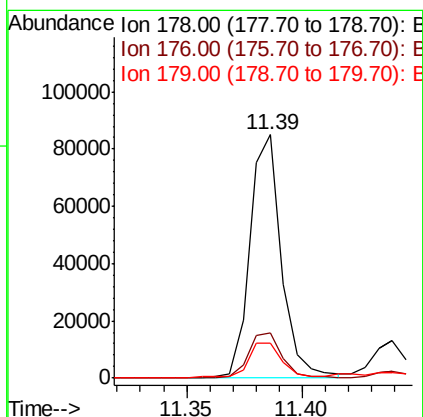
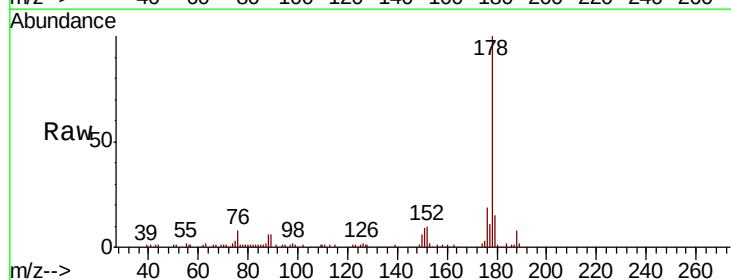
Instrument :  
BNA\_F  
ClientSampleId :  
OK-03-012819-B

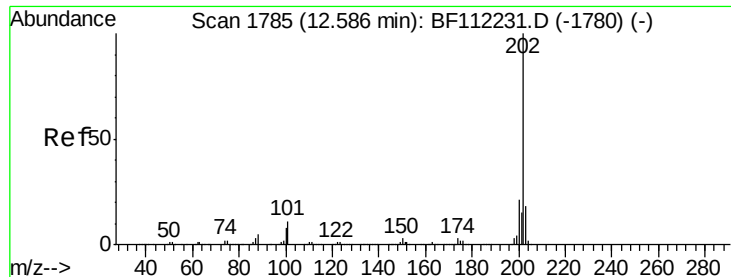
Tgt Ion:188 Resp: 425251  
Ion Ratio Lower Upper  
188 100  
94 7.6 8.2 12.2#  
80 7.8 8.9 13.3#



#71  
Phenanthrene  
Concen: 3.684 ng  
RT: 11.39 min Scan# 1581  
Delta R.T. -0.01 min  
Lab File: BF112297.D  
Acq: 29 Jan 2019 16:11

Tgt Ion:178 Resp: 81440  
Ion Ratio Lower Upper  
178 100  
176 18.6 16.3 24.5  
179 14.6 13.0 19.4





#75

Fluoranthene

Concen: 3.938 ng

RT: 12.57 min Scan# 1783

Delta R.T. -0.01 min

Lab File: BF112297.D

Acq: 29 Jan 2019 16:11

Instrument :

BNA\_F

ClientSampleId :

OK-03-012819-B

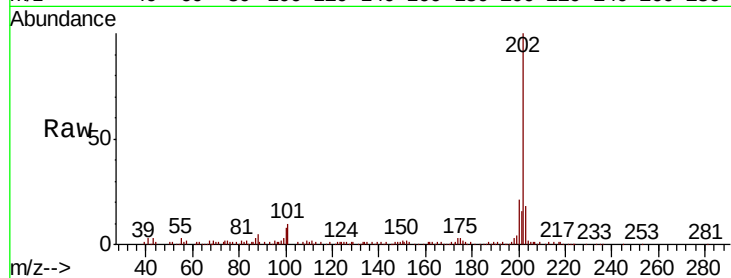
Tgt Ion:202 Resp: 93371

Ion Ratio Lower Upper

202 100

101 10.0 0.0 31.8

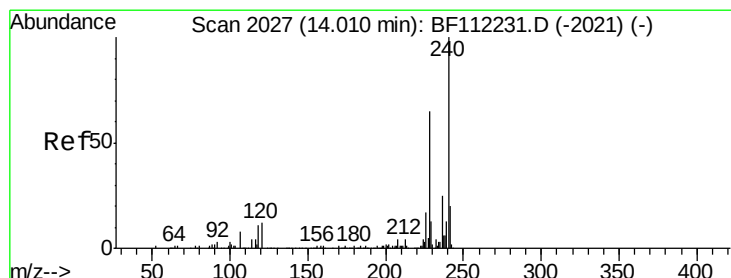
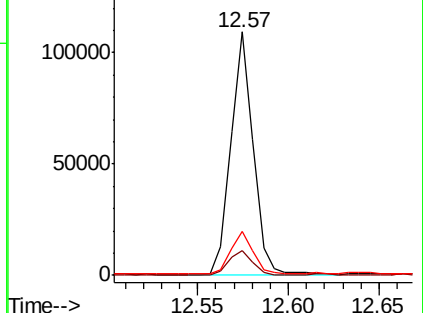
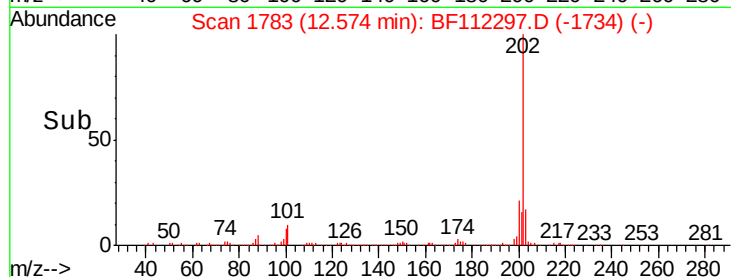
203 17.8 0.0 38.4



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.00 min Scan# 2026

Delta R.T. -0.01 min

Lab File: BF112297.D

Acq: 29 Jan 2019 16:11

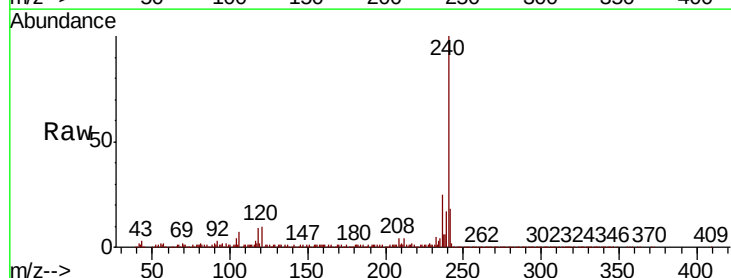
Tgt Ion:240 Resp: 414281

Ion Ratio Lower Upper

240 100

120 10.5 9.0 13.6

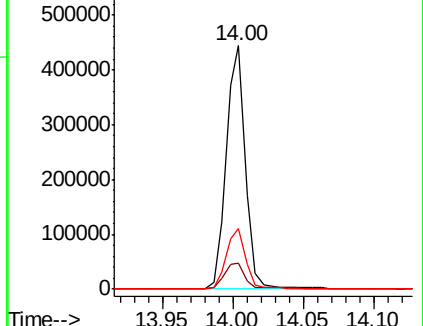
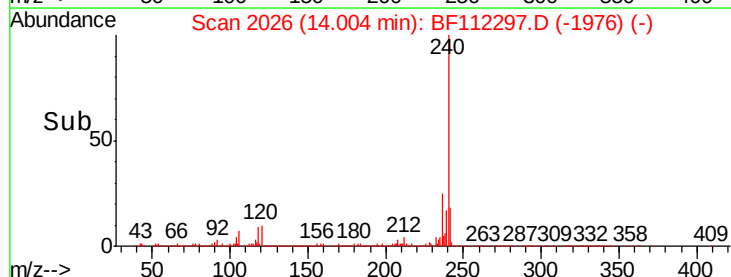
236 25.0 20.7 31.1

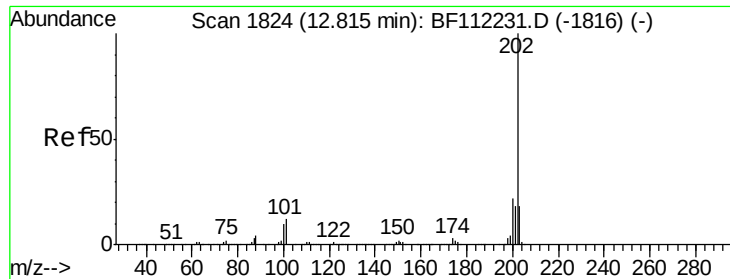


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

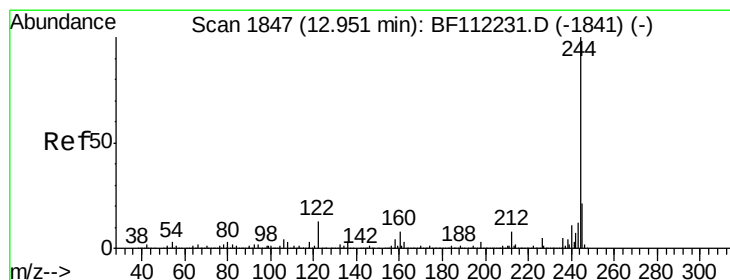
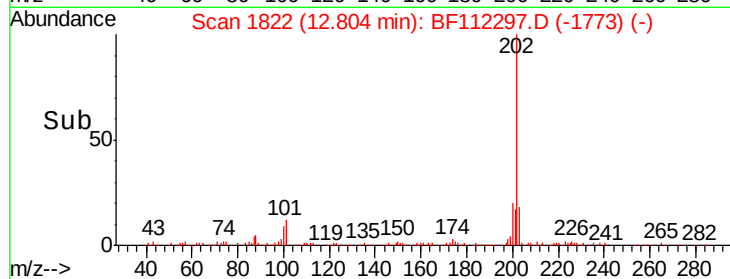
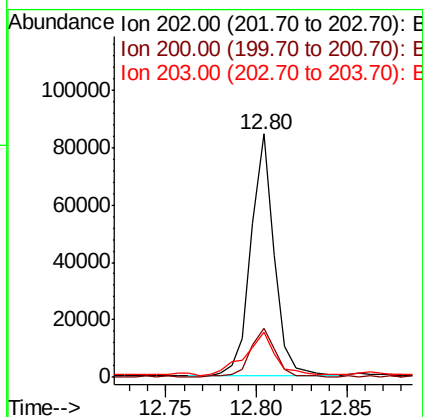
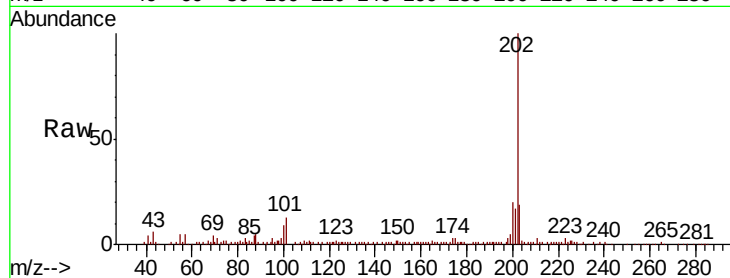




#78  
 Pyrene  
 Concen: 2.603 ng  
 RT: 12.80 min Scan# 1822  
 Delta R.T. -0.01 min  
 Lab File: BF112297.D  
 Acq: 29 Jan 2019 16:11

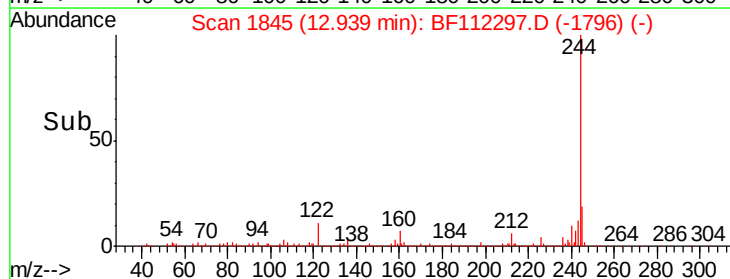
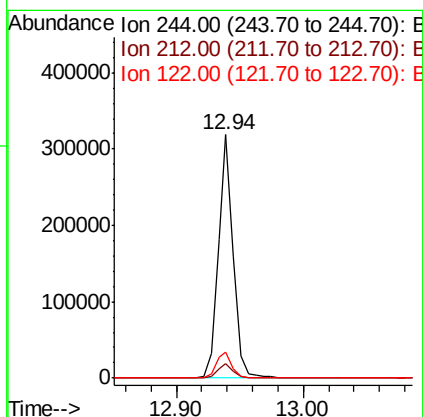
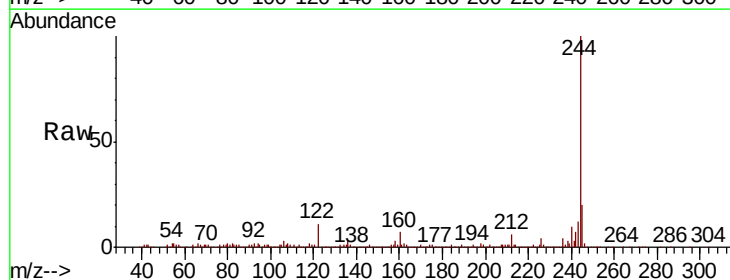
Instrument :  
 BNA\_F  
 ClientSampleId :  
 OK-03-012819-B

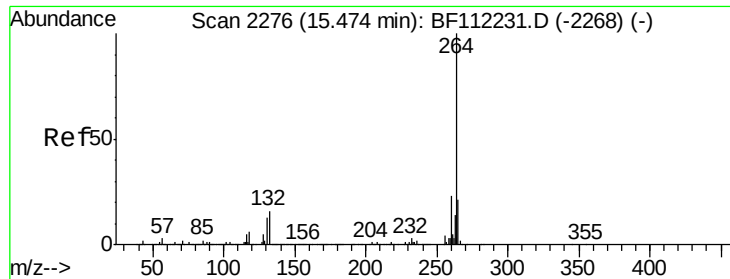
Tgt Ion: 202 Resp: 74658  
 Ion Ratio Lower Upper  
 202 100  
 200 20.2 17.7 26.5  
 203 18.7 14.6 22.0



#79  
 Terphenyl-d14  
 Concen: 11.940 ng  
 RT: 12.94 min Scan# 1845  
 Delta R.T. -0.01 min  
 Lab File: BF112297.D  
 Acq: 29 Jan 2019 16:11

Tgt Ion: 244 Resp: 262631  
 Ion Ratio Lower Upper  
 244 100  
 212 5.9 5.9 8.9  
 122 10.7 9.8 14.6

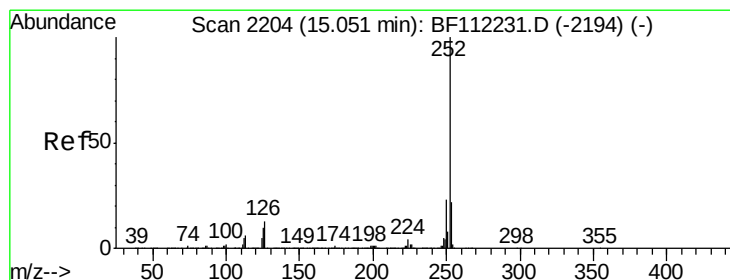
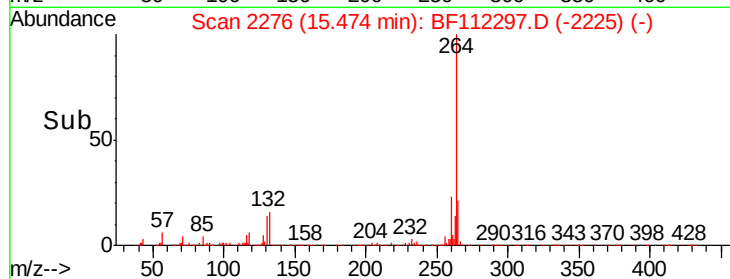
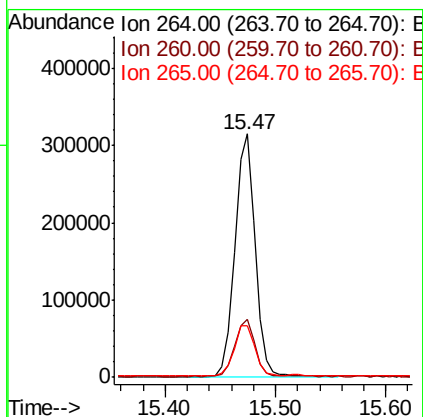
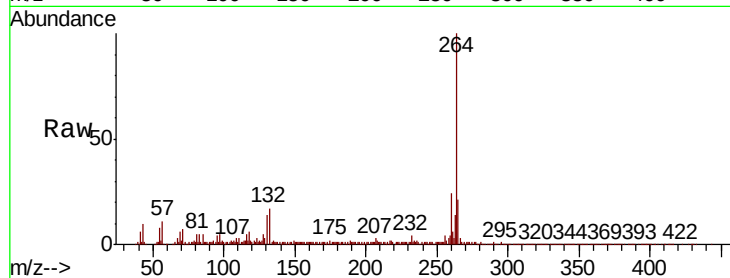




#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.47 min Scan# 2276  
Delta R.T. 0.00 min  
Lab File: BF112297.D  
Acq: 29 Jan 2019 16:11

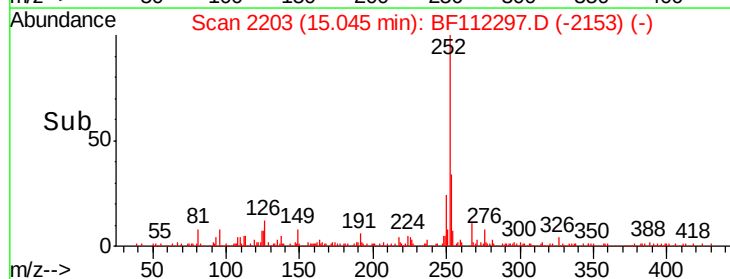
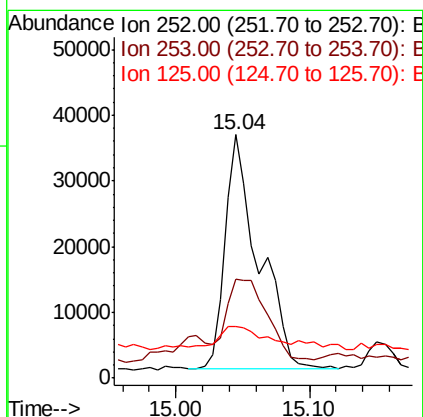
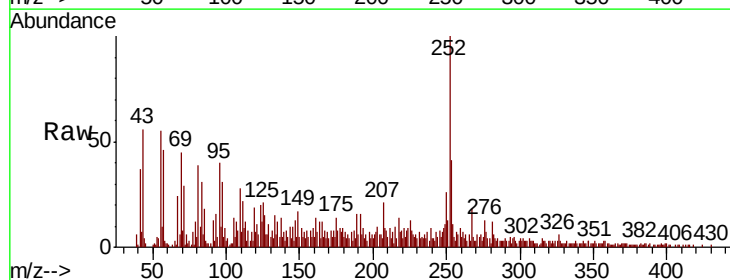
Instrument :  
BNA\_F  
ClientSampleId :  
OK-03-012819-B

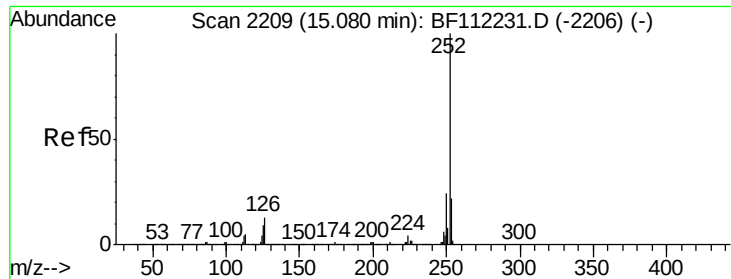
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 264   | Resp: | 403201 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 23.8  | 18.2  | 27.2   |
| 265      | 21.2  | 17.0  | 25.4   |



#88  
Benzo(b)fluoranthene  
Concen: 2.601 ng  
RT: 15.04 min Scan# 2203  
Delta R.T. -0.01 min  
Lab File: BF112297.D  
Acq: 29 Jan 2019 16:11

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 62715 |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 40.8  | 18.0  | 27.0# |
| 125      | 21.3  | 8.7   | 13.1# |





#89

Benzo(k)fluoranthene

Concen: 2.715 ng

RT: 15.04 min Scan# 2203

Delta R.T. -0.04 min

Lab File: BF112297.D

Acq: 29 Jan 2019 16:11

Instrument :

BNA\_F

ClientSampleId :

OK-03-012819-B

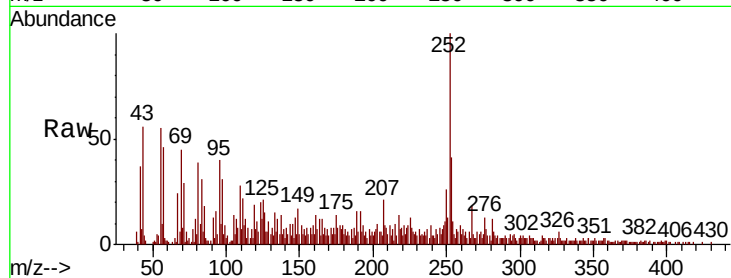
Tgt Ion:252 Resp: 62715

Ion Ratio Lower Upper

252 100

253 40.8 18.0 27.0#

125 21.3 9.1 13.7#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

