

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062219\  
 Data File : BF115135.D  
 Acq On : 22 Jun 2019 21:43  
 Operator : HP/JU  
 Sample : K3159-05 2X  
 Misc :  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-02-061919-A

Quant Time: Jun 24 04:39:19 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF062119.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 24 04:21:29 2019  
 Response via : Initial Calibration

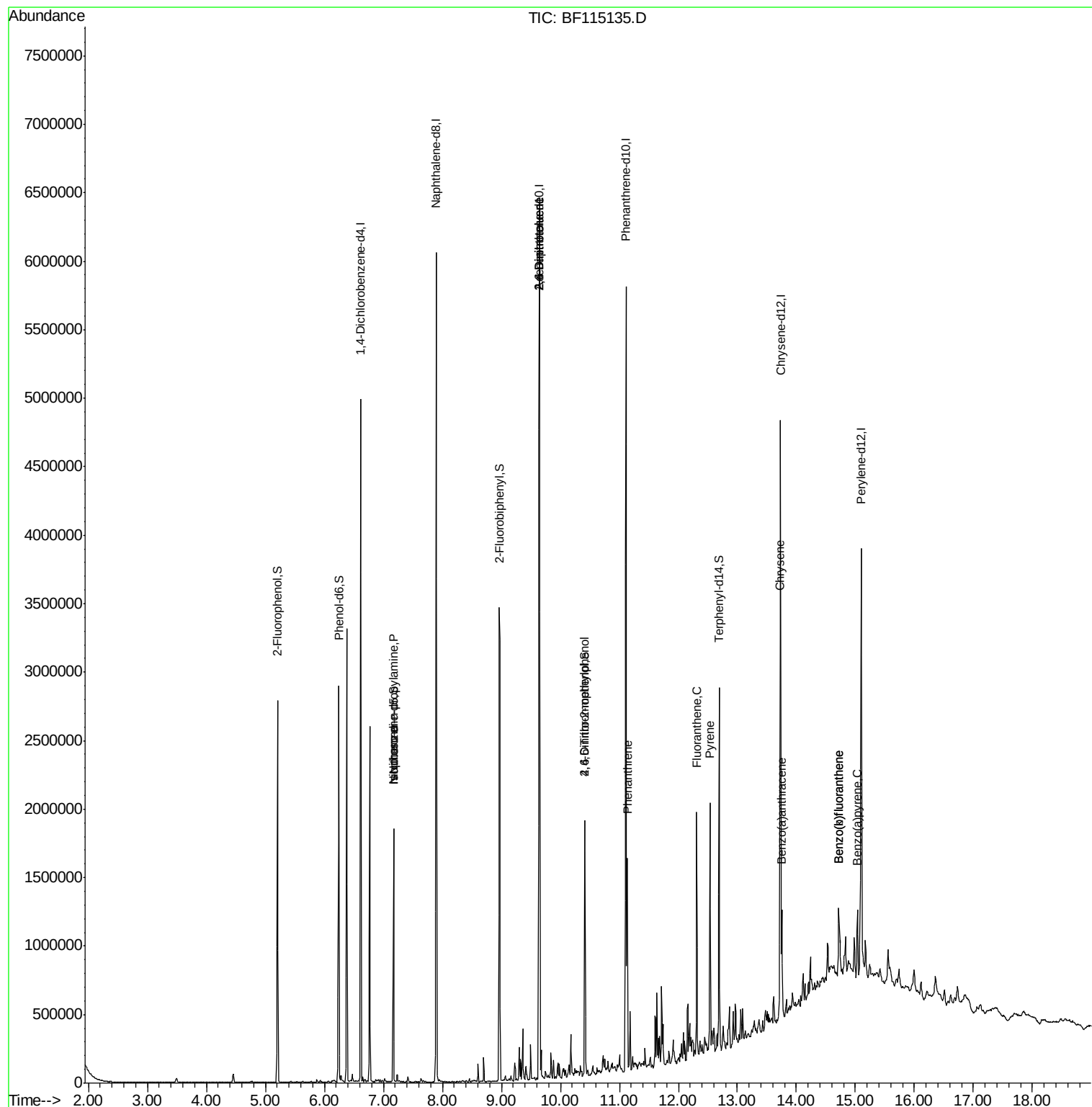
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.61  | 152  | 739924   | 20.00     | ng    | 0.00     |
| 21) Naphthalene-d8             | 7.90  | 136  | 2658760  | 20.00     | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.64  | 164  | 1311437  | 20.00     | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.11 | 188  | 2244040  | 20.00     | ng    | 0.00     |
| 76) Chrysene-d12               | 13.74 | 240  | 1535751  | 20.00     | ng    | -0.01    |
| 87) Perylene-d12               | 15.10 | 264  | 1435657  | 20.00     | ng    | -0.01    |
| System Monitoring Compounds    |       |      |          |           |       |          |
| 5) 2-Fluorophenol              | 5.21  | 112  | 808735   | 16.87     | ng    | 0.00     |
| 7) Phenol-d6                   | 6.24  | 99   | 1017567  | 17.48     | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.17  | 82   | 581164   | 13.45     | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol       | 10.42 | 330  | 216596   | 15.66     | ng    | -0.01    |
| 45) 2-Fluorobiphenyl           | 8.97  | 172  | 1067221  | 13.82     | ng    | -0.02    |
| 79) Terphenyl-d14              | 12.69 | 244  | 865030   | 11.98     | ng    | -0.02    |
| Target Compounds               |       |      |          |           |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.17  | 70   | 76740    | 2.060     | ng    | # 76     |
| 25) Isophorone                 | 7.17  | 82   | 560997   | 6.336     | ng    | # 63     |
| 51) 2,6-Dinitrotoluene         | 9.64  | 165  | 176193   | 7.910     | ng    | # 29     |
| 57) 2,4-Dinitrotoluene         | 9.64  | 165  | 176193   | 6.126     | ng    | # 30     |
| 58) Fluorene                   | 10.18 | 166  | 66245    | Below Cal |       | 93       |
| 61) 4-Chlorophenyl-phenylether | 10.38 | 204  | 130      | Below Cal | #     | 1        |
| 65) 4,6-Dinitro-2-methylphenol | 10.41 | 198  | 479      | 4.996     | ng    | # 1      |
| 71) Phenanthrene               | 11.14 | 178  | 518561   | 4.292     | ng    | 97       |
| 75) Fluoranthene               | 12.31 | 202  | 648957   | 5.383     | ng    | 96       |
| 78) Pyrene                     | 12.54 | 202  | 657548   | 5.571     | ng    | 99       |
| 81) Benzo(a)anthracene         | 13.75 | 228  | 261826   | 2.376     | ng    | 93       |
| 83) Chrysene                   | 13.72 | 228  | 289298   | 2.866     | ng    | 95       |
| 88) Benzo(b)fluoranthene       | 14.72 | 252  | 351651   | 3.926     | ng    | # 96     |
| 89) Benzo(k)fluoranthene       | 14.72 | 252  | 351651   | 4.377     | ng    | 99       |
| 90) Benzo(a)pyrene             | 15.04 | 252  | 199430   | 2.470     | ng    | 98       |

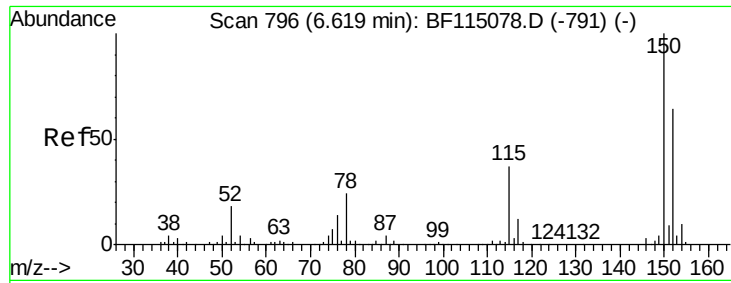
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF062219\  
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ALS Vial : 25 Sample Multiplier: 1

Instrument :  
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Quant Time: Jun 24 04:39:19 2019  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jun 24 04:21:29 2019  
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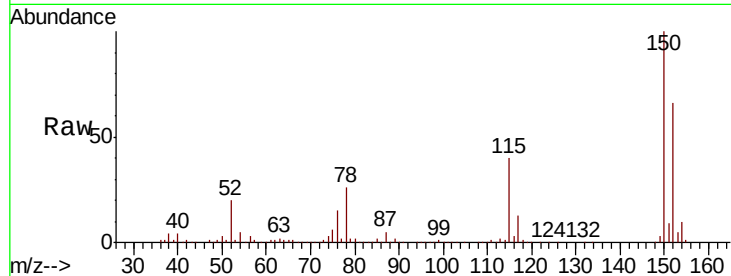


#1

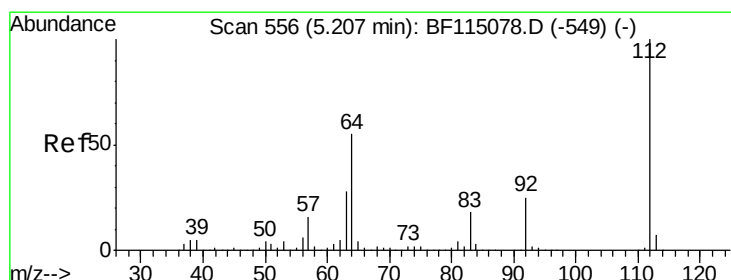
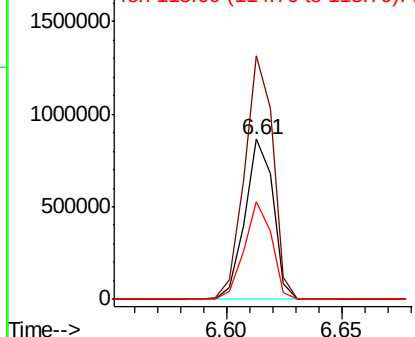
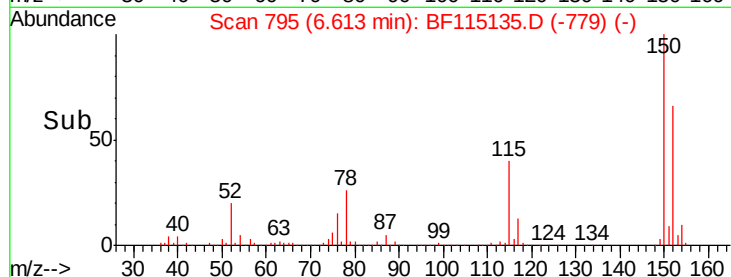
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.61 min Scan# 795  
Delta R.T. -0.01 min  
Lab File: BF115135.D  
Acq: 22 Jun 2019 21:43

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-061919-A

Tot Ion:152 Resp: 739924  
Ion Ratio Lower Upper  
152 100  
150 152.1 124.2 186.2  
115 60.8 46.1 69.1



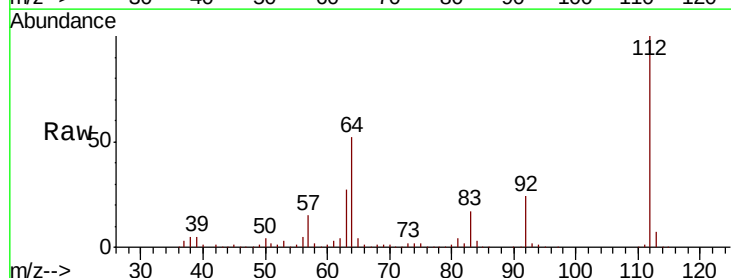
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



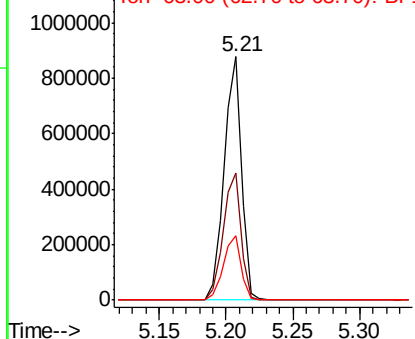
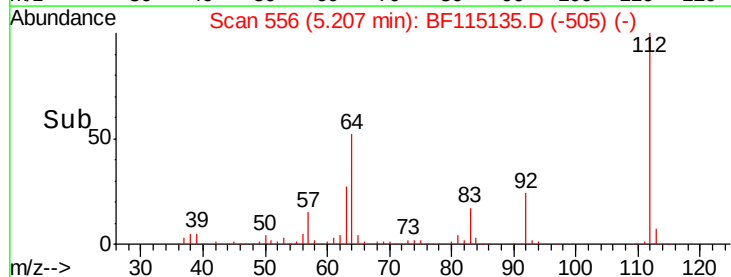
#5

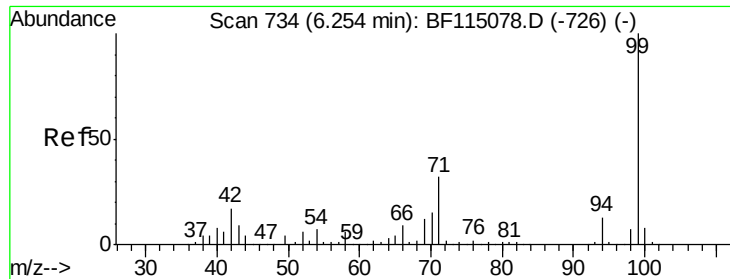
2-Fluorophenol  
Concen: 16.867 ng  
RT: 5.21 min Scan# 556  
Delta R.T. 0.00 min  
Lab File: BF115135.D  
Acq: 22 Jun 2019 21:43

Tgt Ion:112 Resp: 808735  
Ion Ratio Lower Upper  
112 100  
64 52.4 43.8 65.6  
63 26.5 22.2 33.4



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: 17.485 ng

RT: 6.24 min Scan# 732

Delta R.T. -0.01 min

Lab File: BF115135.D

Acq: 22 Jun 2019 21:43

Instrument :

BNA\_F

ClientSampleId :

OR-02-061919-A

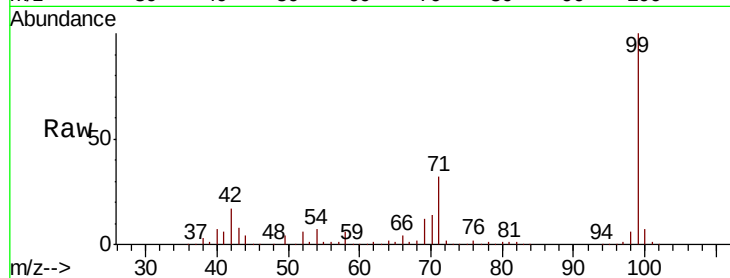
Tot Ion: 99 Resp: 1017567

Ion Ratio Lower Upper

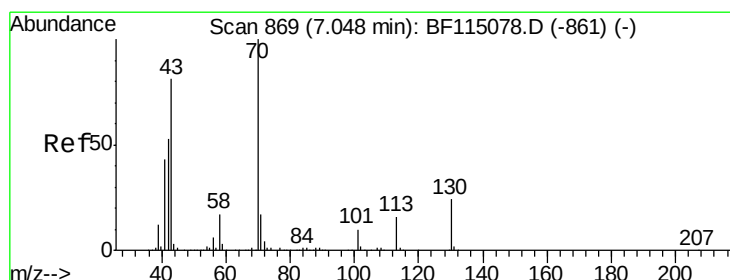
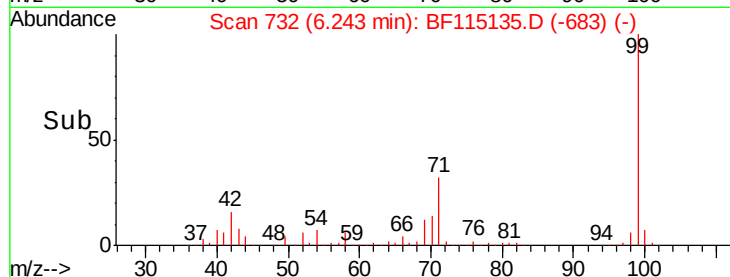
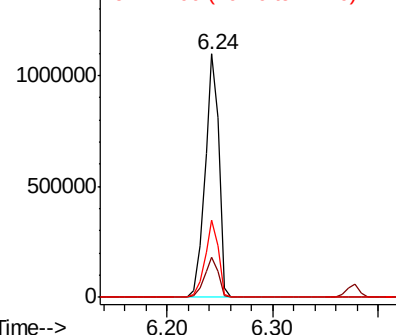
99 100

42 16.5 13.6 20.4

71 31.8 25.5 38.3



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: 2.060 ng

RT: 7.17 min Scan# 890

Delta R.T. 0.12 min

Lab File: BF115135.D

Acq: 22 Jun 2019 21:43

Tgt Ion: 70 Resp: 76740

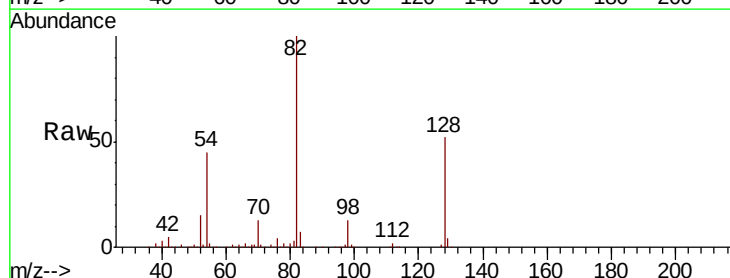
Ion Ratio Lower Upper

70 100

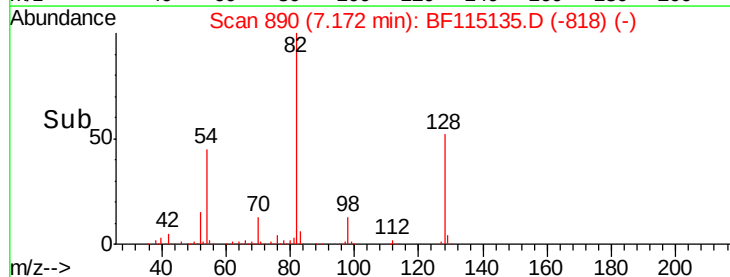
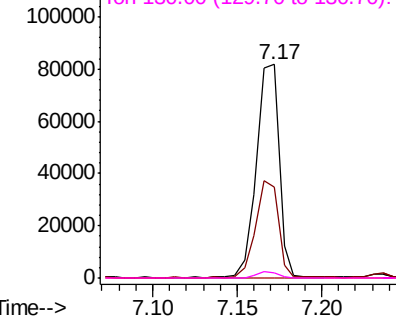
42 42.5 42.6 63.8#

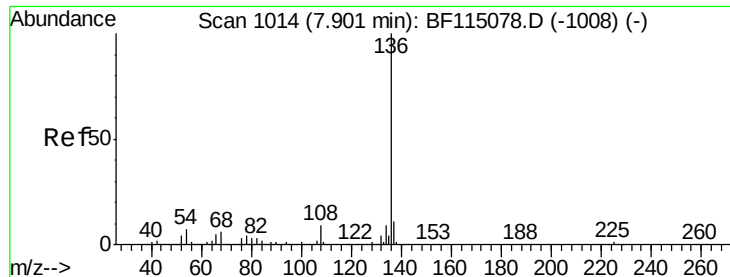
101 0.0 8.0 12.0#

130 2.5 19.4 29.0#



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

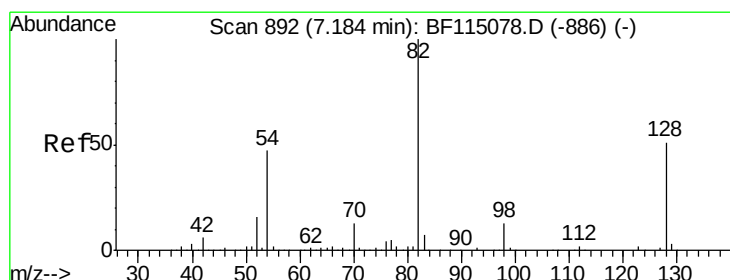
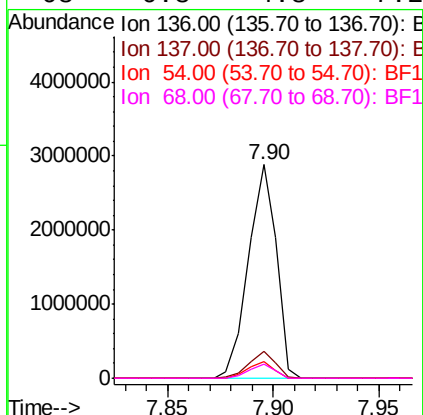
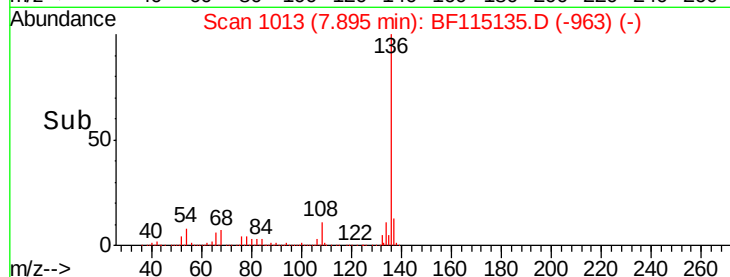
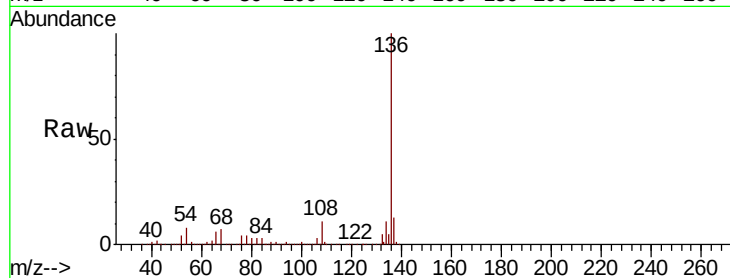




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 7.90 min Scan# 1013  
Delta R.T. -0.01 min  
Lab File: BF115135.D  
Acq: 22 Jun 2019 21:43

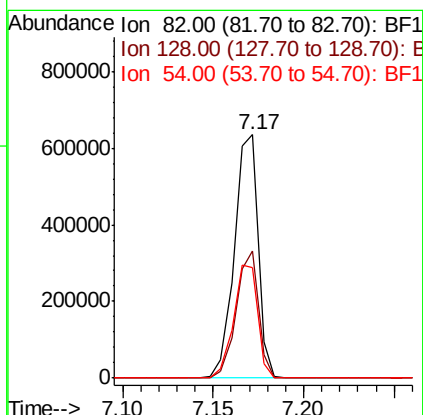
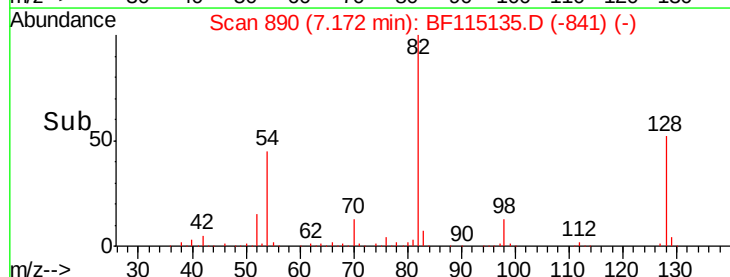
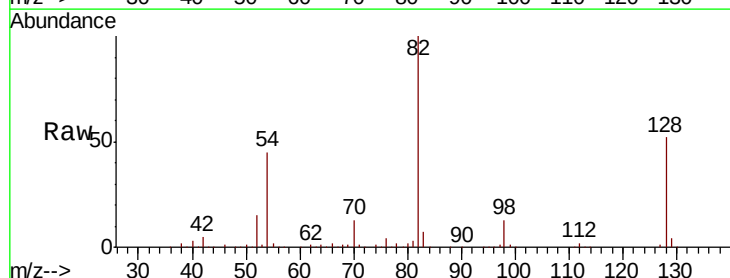
Instrument :  
BNA\_F  
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OR-02-061919-A

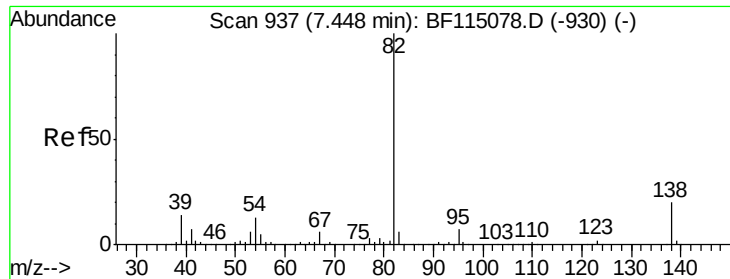
|             |               |
|-------------|---------------|
| Tot Ion:136 | Resp: 2658760 |
| Ion Ratio   | Lower Upper   |
| 136 100     |               |
| 137 12.9    | 8.9 13.3      |
| 54 8.0      | 5.6 8.4       |
| 68 6.8      | 4.8 7.2       |



#23  
Nitrobenzene-d5  
Concen: 13.446 ng  
RT: 7.17 min Scan# 890  
Delta R.T. -0.01 min  
Lab File: BF115135.D  
Acq: 22 Jun 2019 21:43

|             |              |
|-------------|--------------|
| Tgt Ion: 82 | Resp: 581164 |
| Ion Ratio   | Lower Upper  |
| 82 100      |              |
| 128 52.4    | 40.4 60.6    |
| 54 45.2     | 37.5 56.3    |





#25

Isophorone

Concen: 6.336 ng

RT: 7.17 min Scan# 890

Delta R.T. -0.28 min

Lab File: BF115135.D

Acq: 22 Jun 2019 21:43

Instrument :

BNA\_F

ClientSampleId :

OR-02-061919-A

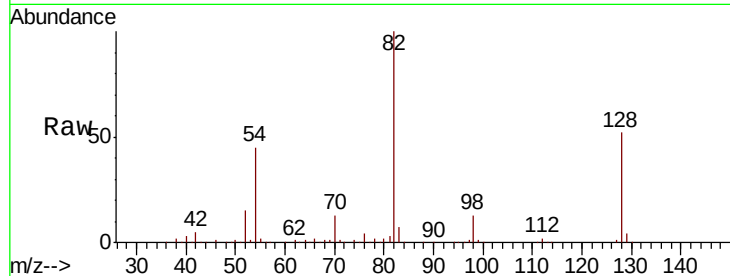
Tot Ion: 82 Resp: 560997

Ion Ratio Lower Upper

82 100

95 0.1 5.4 8.2#

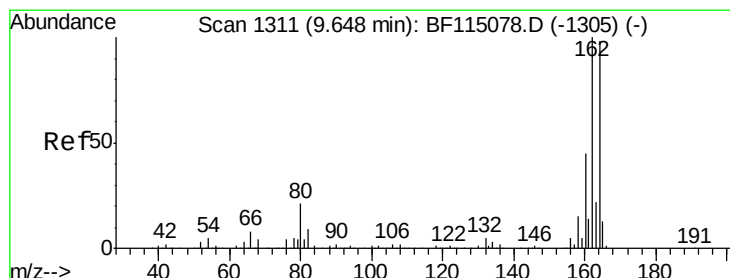
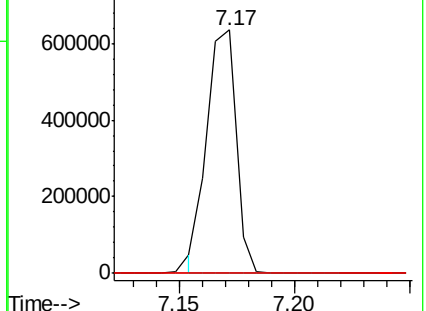
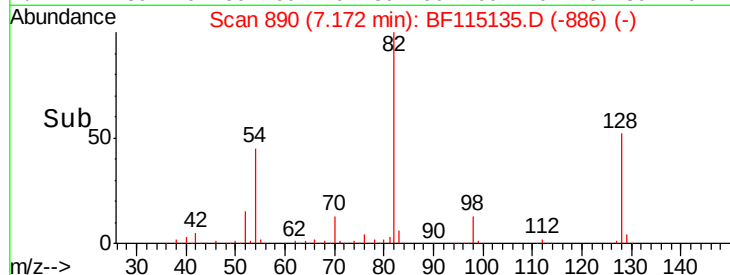
138 0.0 15.9 23.9#



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: 9.64 min Scan# 1310

Delta R.T. -0.01 min

Lab File: BF115135.D

Acq: 22 Jun 2019 21:43

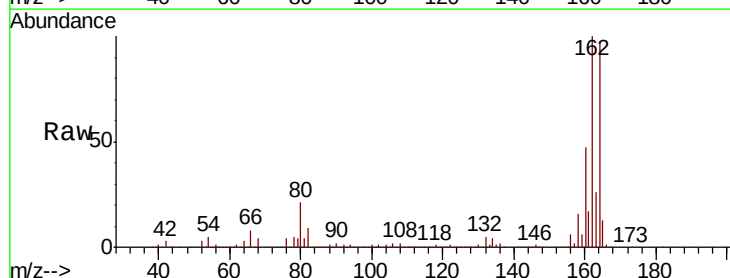
Tgt Ion:164 Resp: 1311437

Ion Ratio Lower Upper

164 100

162 103.6 81.7 122.5

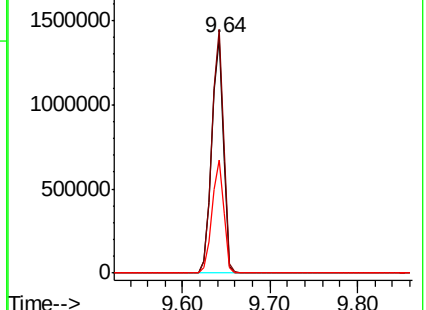
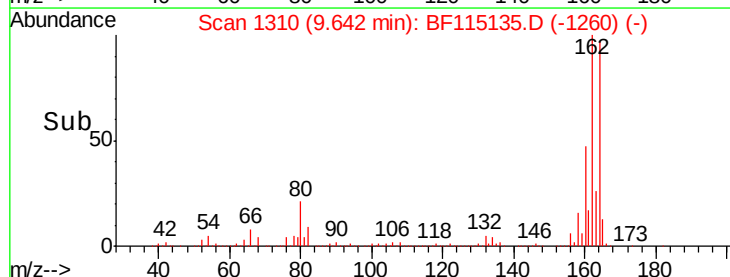
160 48.4 37.0 55.4

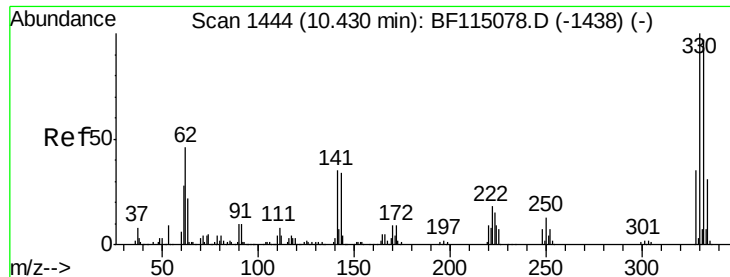


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

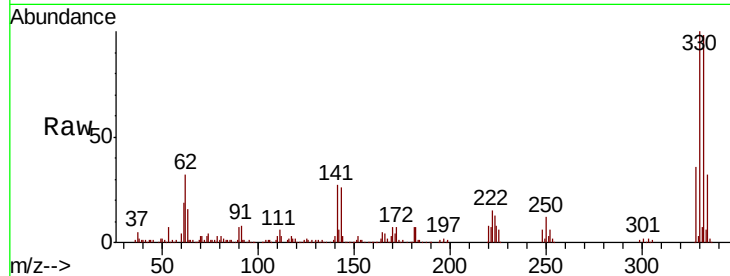




#42  
 2,4,6-Tribromophenol  
 Concen: 15.662 ng  
 RT: 10.42 min Scan# 1442  
 Delta R.T. -0.01 min  
 Lab File: BF115135.D  
 Acq: 22 Jun 2019 21:43

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-02-061919-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 96.6  | 77.3  | 115.9 |
| 141     | 34.2  | 28.2  | 42.2  |

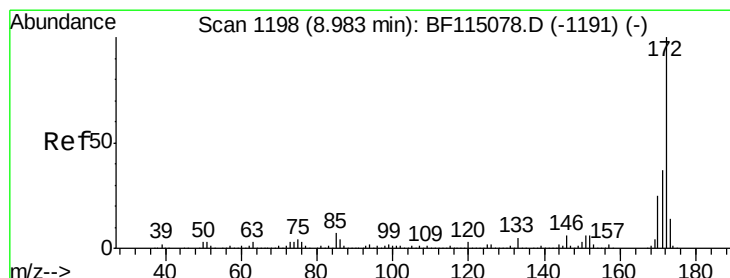
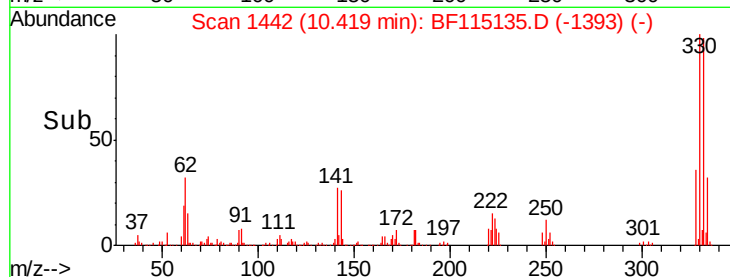
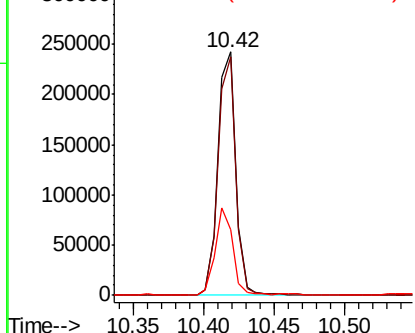


Abundance

Ion 329.80 (329.50 to 330.50): E

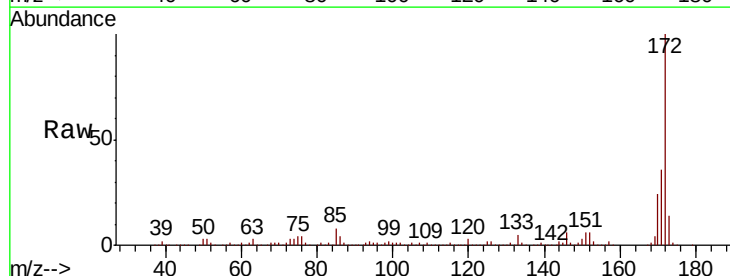
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
 2-Fluorobiphenyl  
 Concen: 13.823 ng  
 RT: 8.97 min Scan# 1195  
 Delta R.T. -0.02 min  
 Lab File: BF115135.D  
 Acq: 22 Jun 2019 21:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.7  | 29.8  | 44.6  |
| 170     | 24.3  | 20.3  | 30.5  |

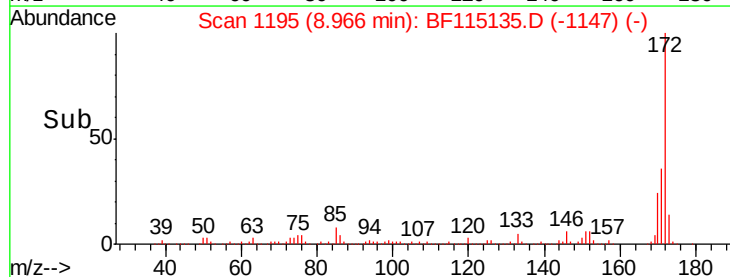
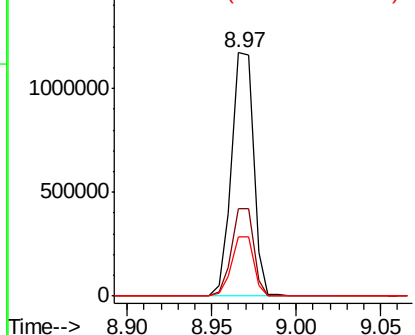


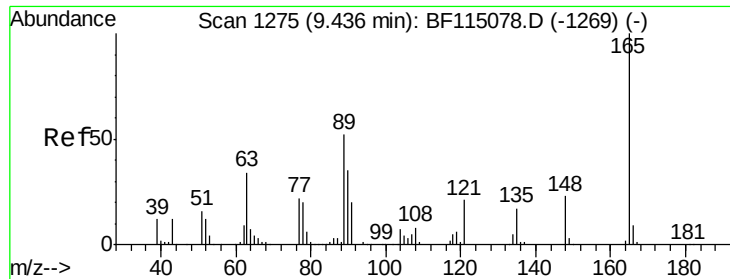
Abundance

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

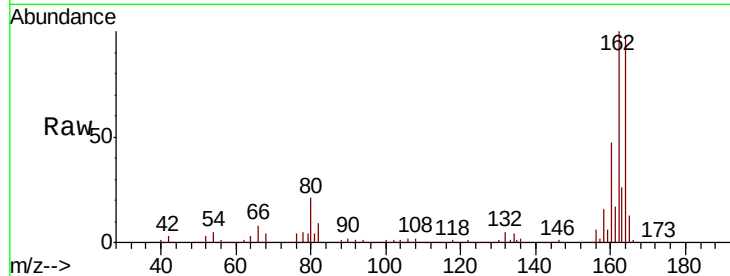




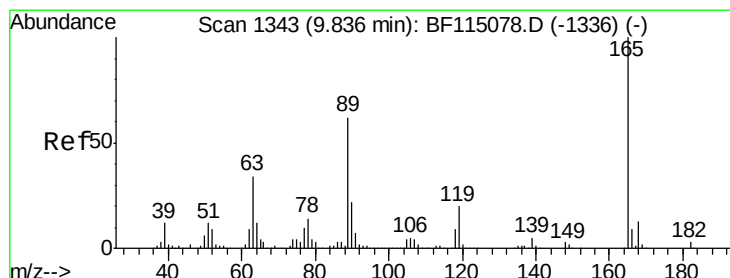
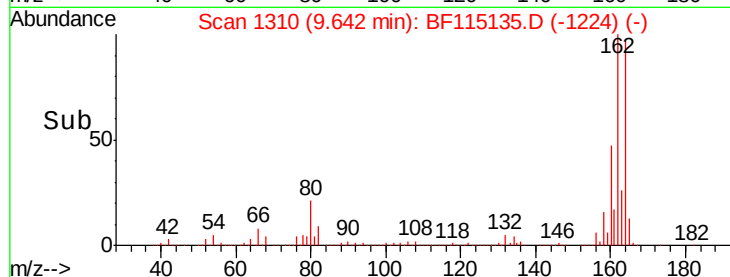
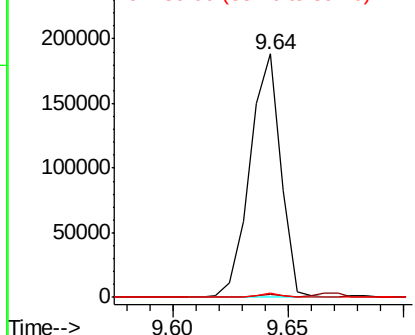
#51  
 2,6-Dinitrotoluene  
 Concen: 7.910 ng  
 RT: 9.64 min Scan# 1310  
 Delta R.T. 0.21 min  
 Lab File: BF115135.D  
 Acq: 22 Jun 2019 21:43

Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-02-061919-A

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.0   | 39.4  | 59.2# |
| 89      | 1.5   | 42.0  | 63.0# |

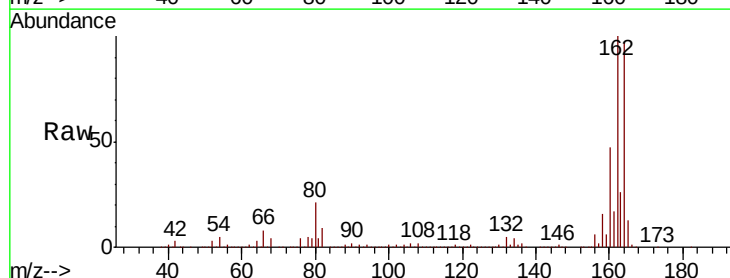


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1

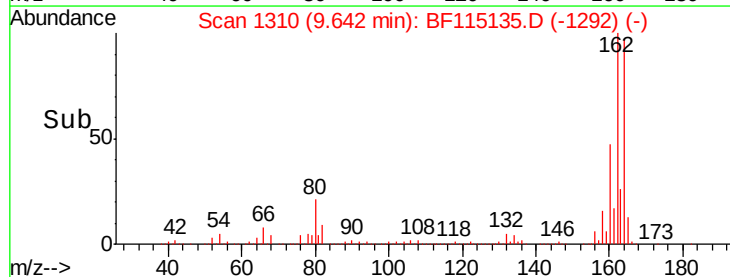
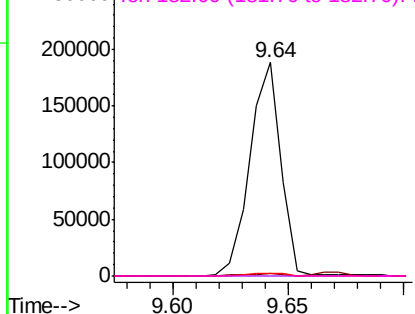


#57  
 2,4-Dinitrotoluene  
 Concen: 6.126 ng  
 RT: 9.64 min Scan# 1310  
 Delta R.T. -0.19 min  
 Lab File: BF115135.D  
 Acq: 22 Jun 2019 21:43

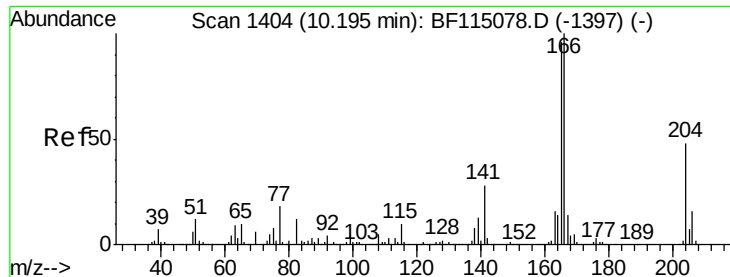
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.0   | 27.5  | 41.3# |
| 89      | 1.5   | 49.9  | 74.9# |
| 182     | 0.3   | 2.1   | 3.1#  |



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



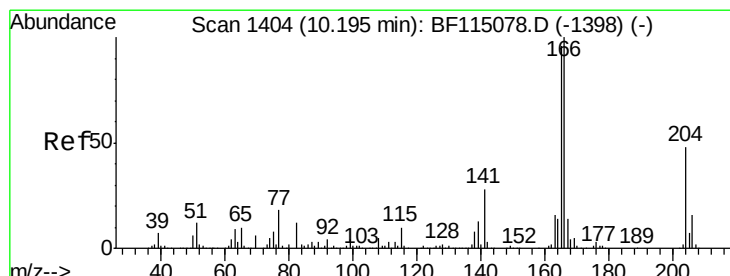
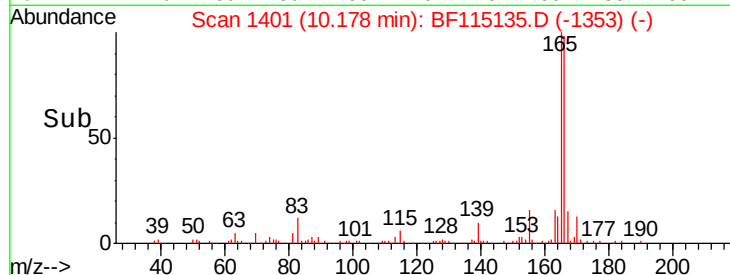
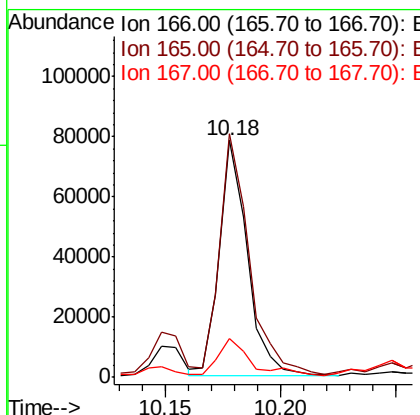
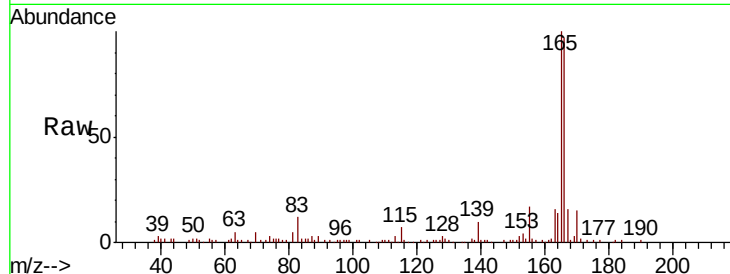




#58  
 Fluorene  
 Concen: Below Cal  
 RT: 10.18 min Scan# 1401  
 Delta R.T. -0.02 min  
 Lab File: BF115135.D  
 Acq: 22 Jun 2019 21:43

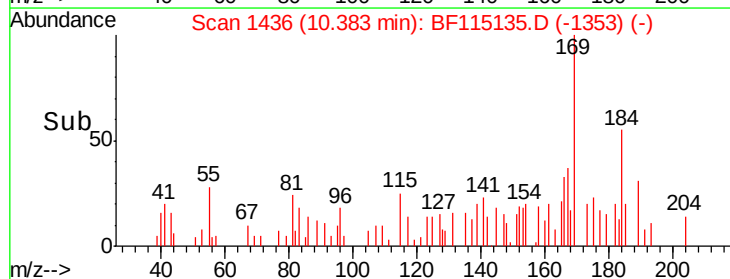
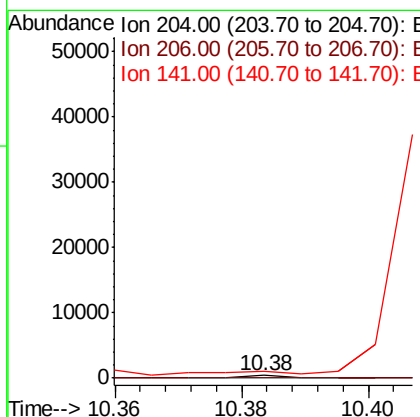
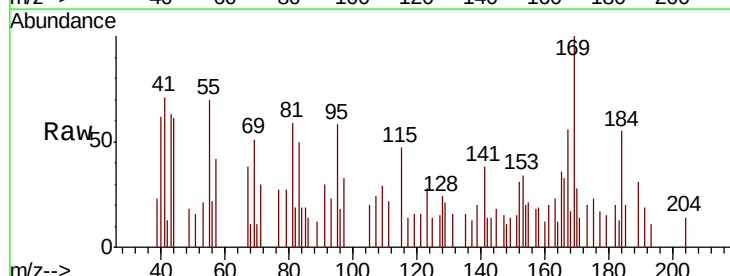
Instrument :  
 BNA\_F  
 ClientSampleId :  
 OR-02-061919-A

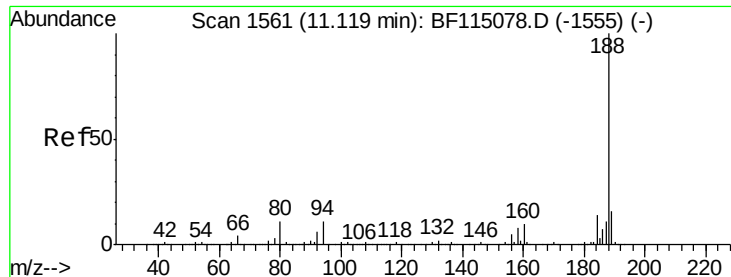
Tot Ion:166 Resp: 66245  
 Ion Ratio Lower Upper  
 166 100  
 165 102.7 76.5 114.7  
 167 16.2 11.0 16.4



#61  
 4-Chlorophenyl-phenylether  
 Concen: Below Cal  
 RT: 10.38 min Scan# 1436  
 Delta R.T. 0.19 min  
 Lab File: BF115135.D  
 Acq: 22 Jun 2019 21:43

Tgt Ion:204 Resp: 130  
 Ion Ratio Lower Upper  
 204 100  
 206 0.0 26.6 40.0#  
 141 272.4 46.7 70.1#





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.11 min Scan# 1560

Delta R.T. -0.01 min

Lab File: BF115135.D

Acq: 22 Jun 2019 21:43

Instrument :

BNA\_F

ClientSampleId :

OR-02-061919-A

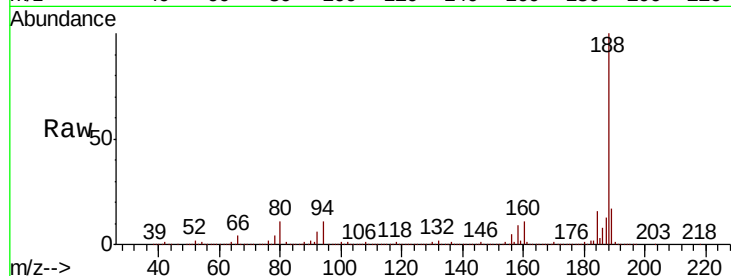
Tot Ion:188 Resp: 2244040

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 188 | 100   |       |       |
| 94  | 10.7  | 8.6   | 12.8  |
| 80  | 11.5  | 8.8   | 13.2  |

188 100

94 10.7 8.6 12.8

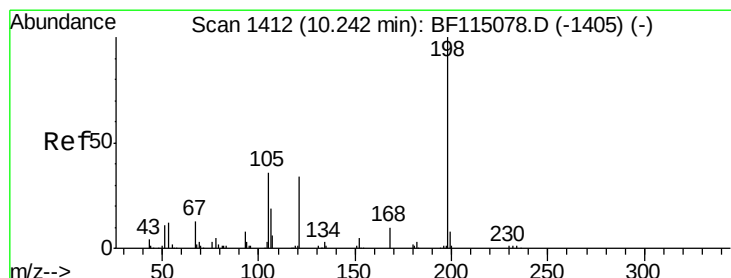
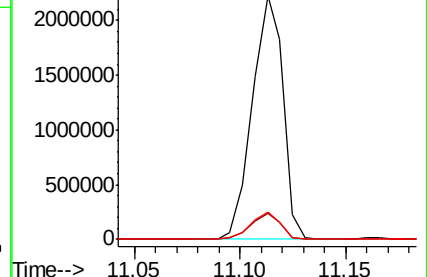
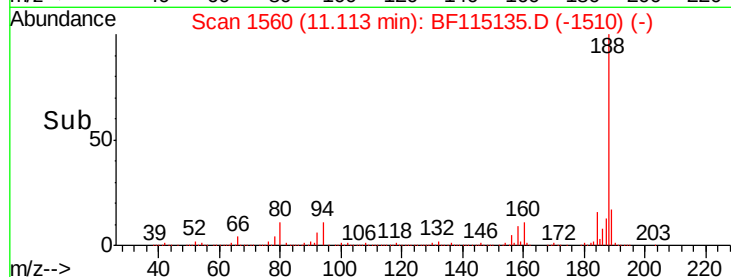
80 11.5 8.8 13.2



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#65

4,6-Dinitro-2-methylphenol

Concen: 4.996 ng

RT: 10.41 min Scan# 1441

Delta R.T. 0.17 min

Lab File: BF115135.D

Acq: 22 Jun 2019 21:43

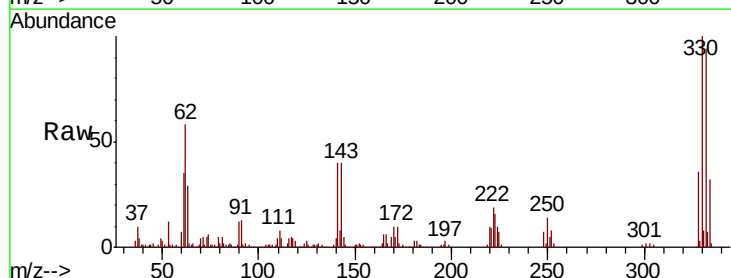
Tgt Ion:198 Resp: 479

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 198 | 100   |       |       |
| 51  | 293.7 | 11.0  | 51.0# |
| 105 | 282.5 | 17.3  | 57.3# |

198 100

51 293.7 11.0 51.0#

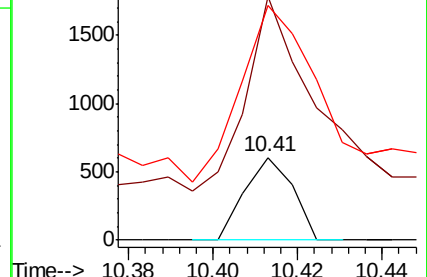
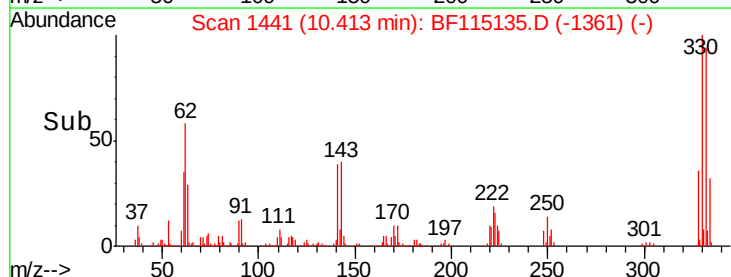
105 282.5 17.3 57.3#

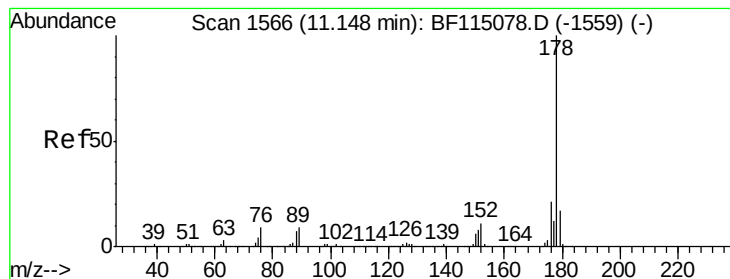


Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF1

Ion 105.00 (104.70 to 105.70): E





#71

Phenanthrene

Concen: 4.292 ng

RT: 11.14 min Scan# 1564

Delta R.T. -0.01 min

Lab File: BF115135.D

Acq: 22 Jun 2019 21:43

Instrument :

BNA\_F

ClientSampleId :

OR-02-061919-A

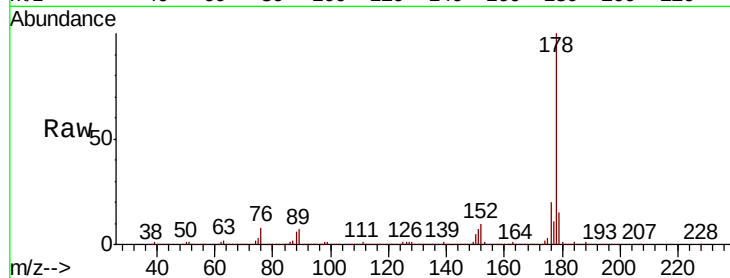
Tot Ion:178 Resp: 518561

Ion Ratio Lower Upper

178 100

176 19.6 16.9 25.3

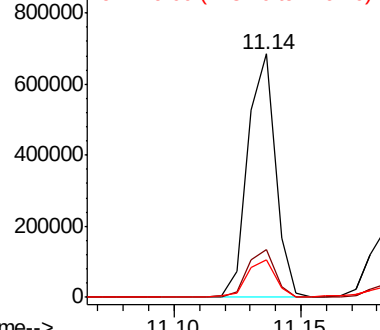
179 15.3 13.2 19.8



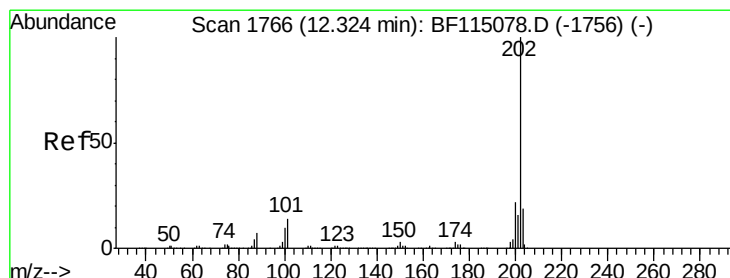
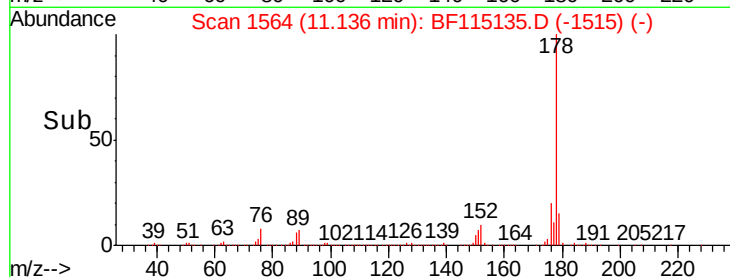
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#75

Fluoranthene

Concen: 5.383 ng

RT: 12.31 min Scan# 1764

Delta R.T. -0.01 min

Lab File: BF115135.D

Acq: 22 Jun 2019 21:43

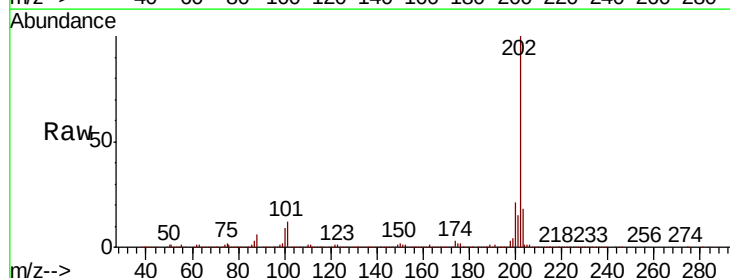
Tgt Ion:202 Resp: 648957

Ion Ratio Lower Upper

202 100

101 11.9 0.0 34.0

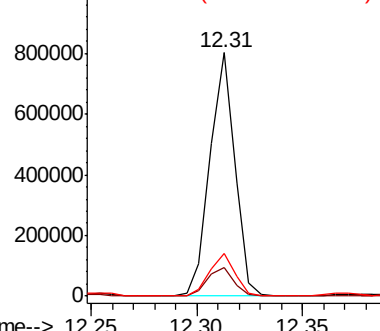
203 17.7 0.0 38.8



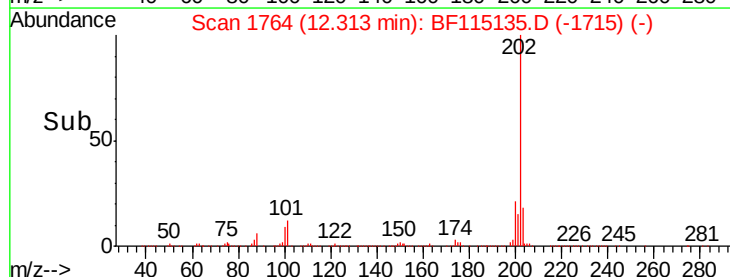
Abundance Ion 202.00 (201.70 to 202.70): E

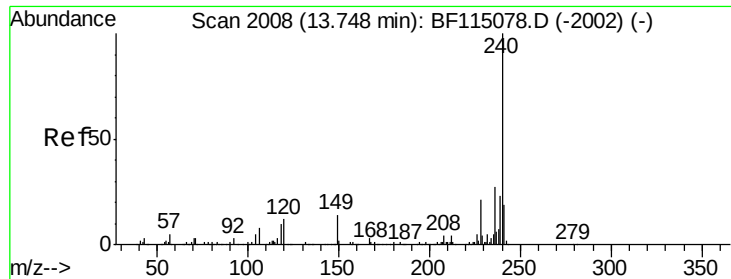
Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



Time-->

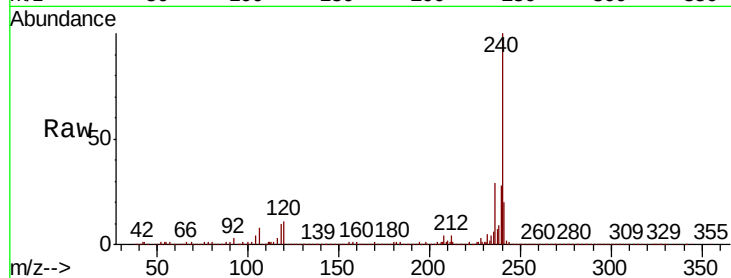




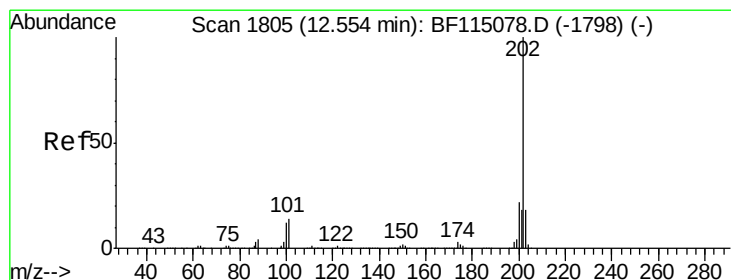
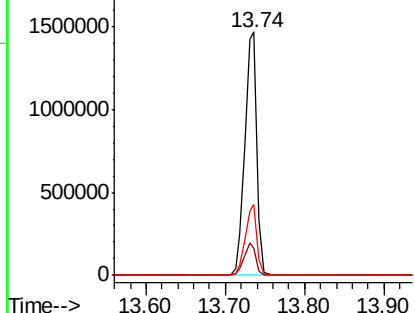
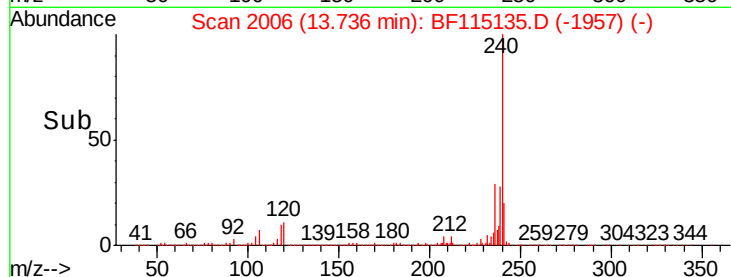
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.74 min Scan# 2006  
Delta R.T. -0.01 min  
Lab File: BF115135.D  
Acq: 22 Jun 2019 21:43

Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-061919-A

Tot Ion:240 Resp: 1535751  
Ion Ratio Lower Upper  
240 100  
120 11.3 9.4 14.2  
236 29.1 21.7 32.5

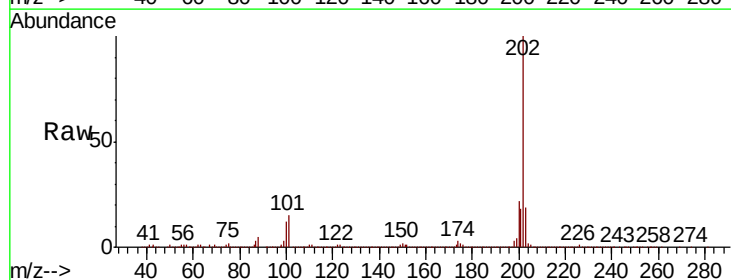


Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E

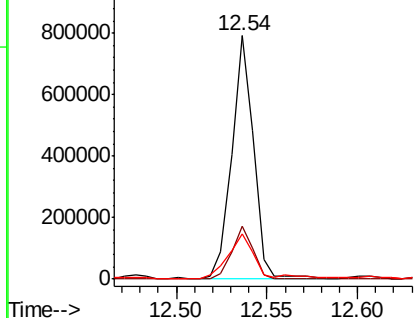
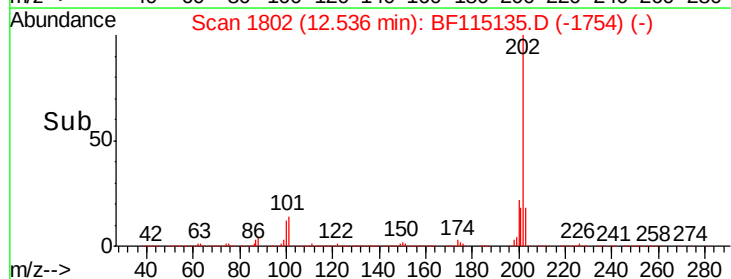


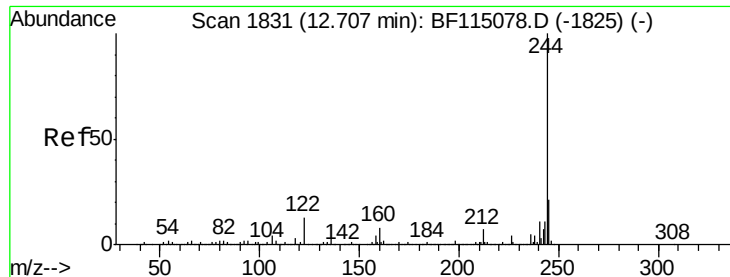
#78  
Pyrene  
Concen: 5.571 ng  
RT: 12.54 min Scan# 1802  
Delta R.T. -0.02 min  
Lab File: BF115135.D  
Acq: 22 Jun 2019 21:43

Tgt Ion:202 Resp: 657548  
Ion Ratio Lower Upper  
202 100  
200 21.9 17.9 26.9  
203 18.8 14.6 21.8



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 11.976 ng

RT: 12.69 min Scan# 1828

Delta R.T. -0.02 min

Lab File: BF115135.D

Acq: 22 Jun 2019 21:43

Instrument :

BNA\_F

ClientSampleId :

OR-02-061919-A

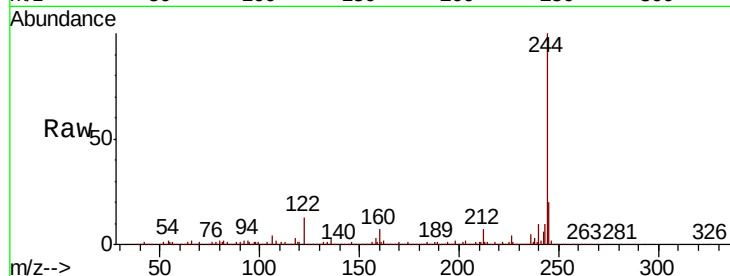
Tot Ion:244 Resp: 865030

Ion Ratio Lower Upper

244 100

212 6.7 5.8 8.6

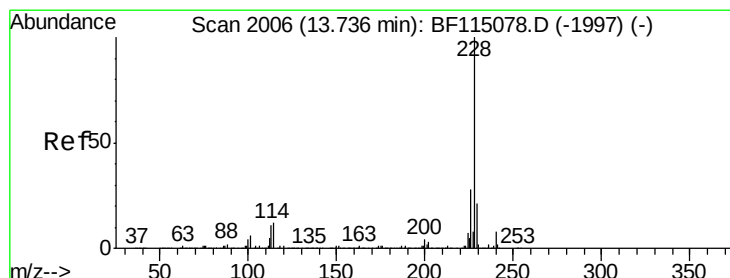
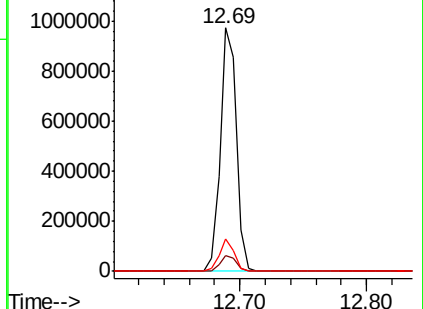
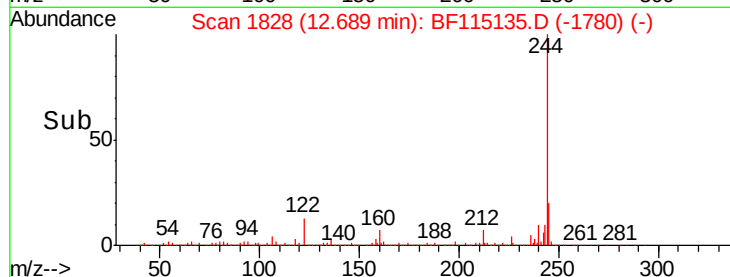
122 13.1 10.4 15.6



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#81

Benzo(a)anthracene

Concen: 2.376 ng

RT: 13.75 min Scan# 2009

Delta R.T. 0.02 min

Lab File: BF115135.D

Acq: 22 Jun 2019 21:43

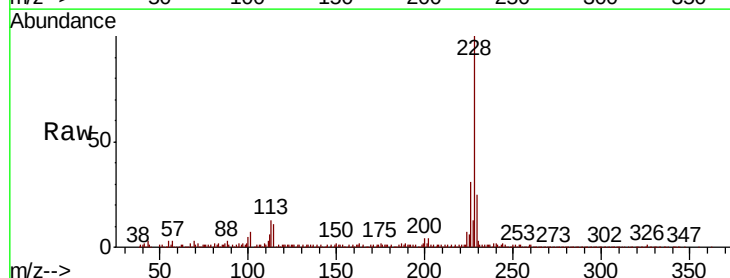
Tgt Ion:228 Resp: 261826

Ion Ratio Lower Upper

228 100

226 31.4 22.5 33.7

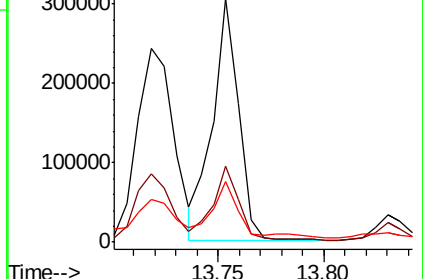
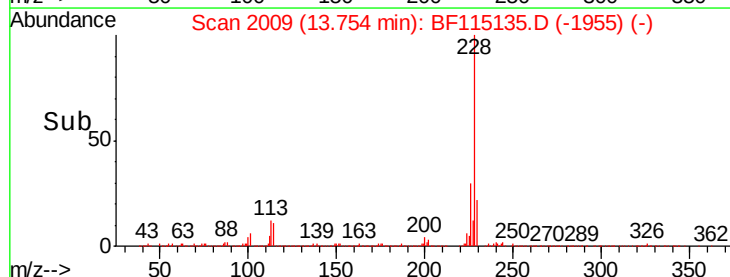
229 24.8 16.6 24.8

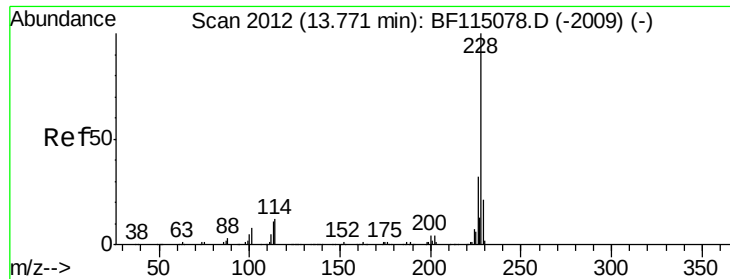


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

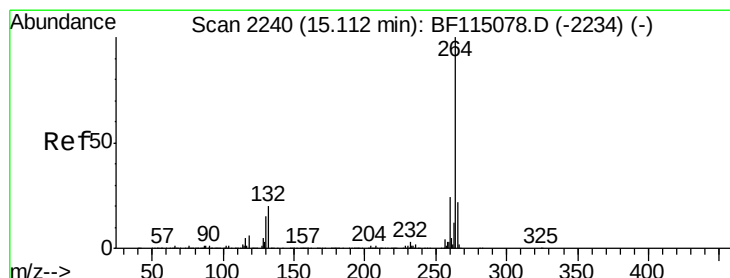
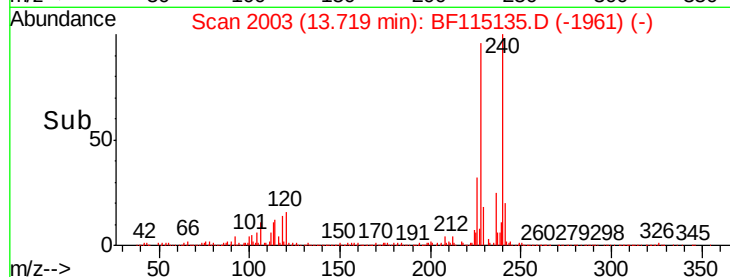
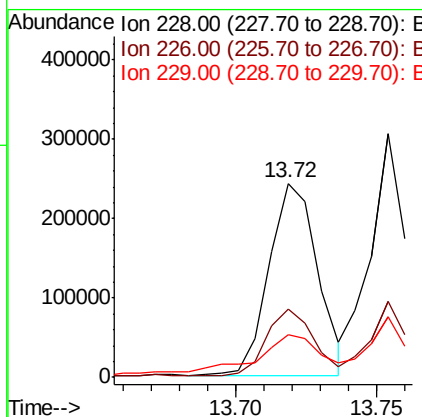
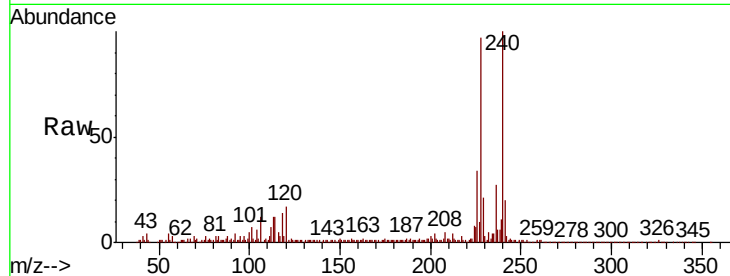




#83  
Chrysene  
Concen: 2.866 ng  
RT: 13.72 min Scan# 2003  
Delta R.T. -0.05 min  
Lab File: BF115135.D  
Acq: 22 Jun 2019 21:43

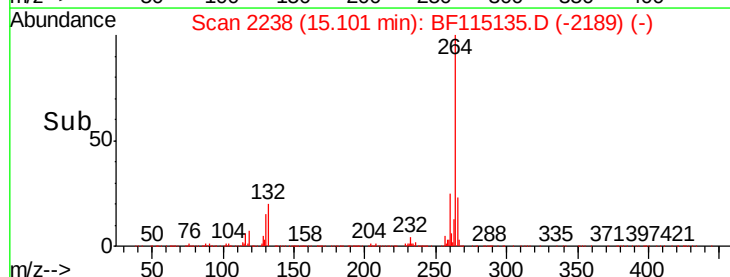
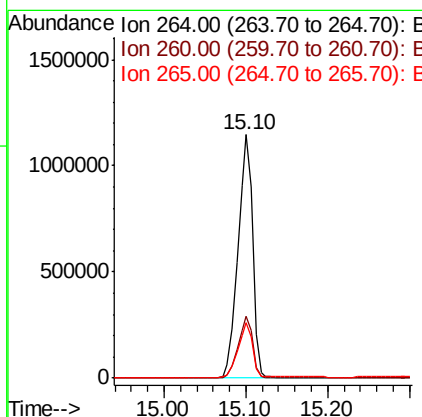
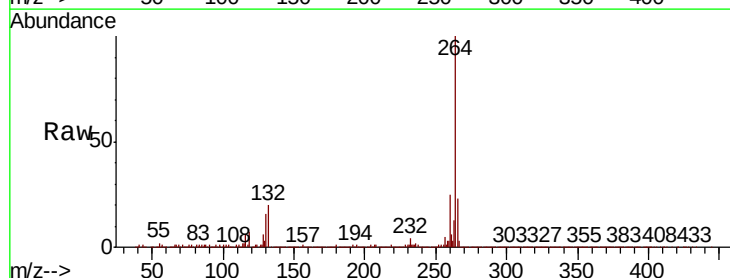
Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-061919-A

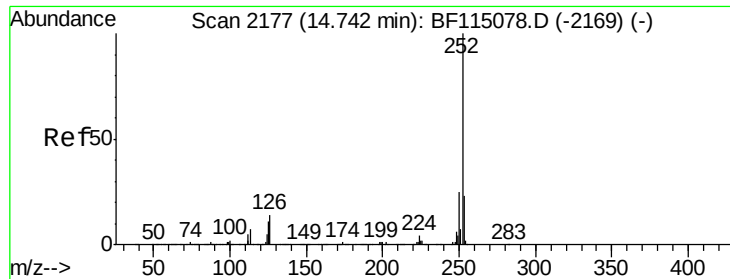
|             |       |             |
|-------------|-------|-------------|
| Tot Ion:228 | Resp: | 289298      |
| Ion         | Ratio | Lower Upper |
| 228         | 100   |             |
| 226         | 35.2  | 25.4 38.0   |
| 229         | 21.8  | 16.5 24.7   |



#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.10 min Scan# 2238  
Delta R.T. -0.01 min  
Lab File: BF115135.D  
Acq: 22 Jun 2019 21:43

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:264 | Resp: | 1435657     |
| Ion         | Ratio | Lower Upper |
| 264         | 100   |             |
| 260         | 25.4  | 19.6 29.4   |
| 265         | 22.9  | 17.3 25.9   |

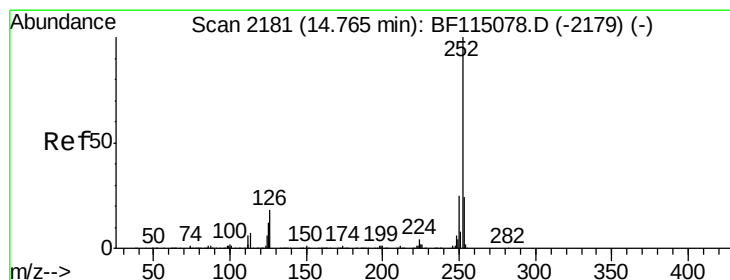
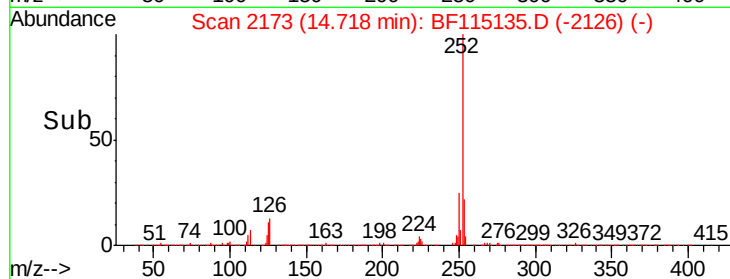
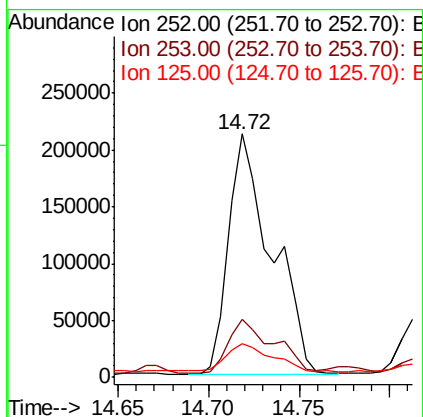
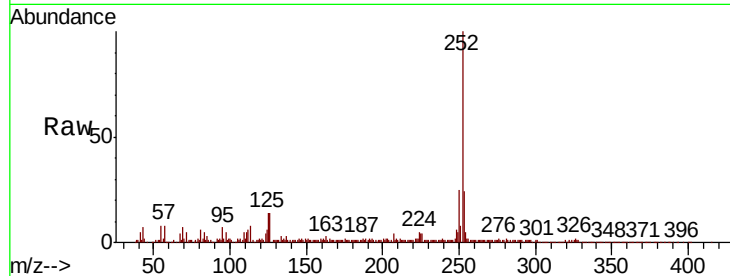




#88  
Benzo(b)fluoranthene  
Concen: 3.926 ng  
RT: 14.72 min Scan# 2173  
Delta R.T. -0.02 min  
Lab File: BF115135.D  
Acq: 22 Jun 2019 21:43

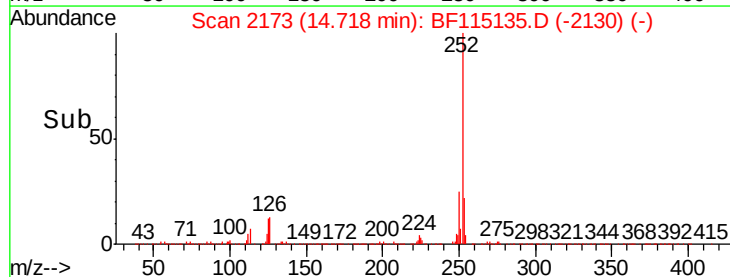
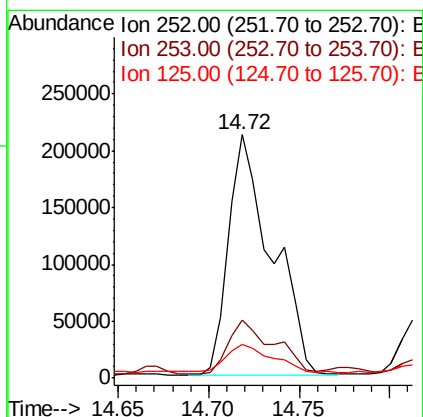
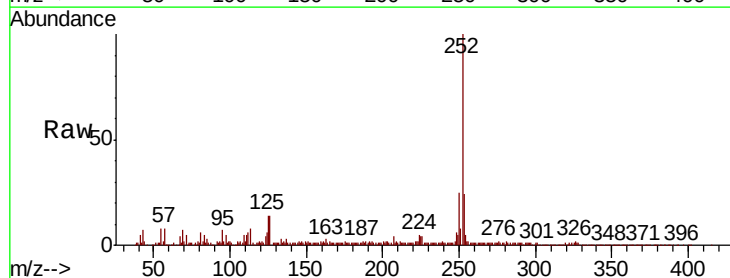
Instrument :  
BNA\_F  
ClientSampleId :  
OR-02-061919-A

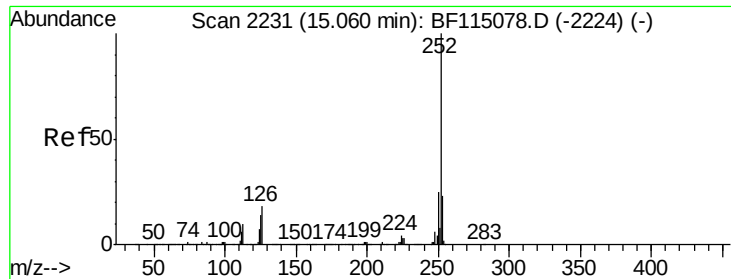
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.8  | 18.1  | 27.1  |
| 125     | 14.0  | 8.7   | 13.1# |



#89  
Benzo(k)fluoranthene  
Concen: 4.377 ng  
RT: 14.72 min Scan# 2173  
Delta R.T. -0.05 min  
Lab File: BF115135.D  
Acq: 22 Jun 2019 21:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.8  | 18.9  | 28.3  |
| 125     | 14.0  | 10.2  | 15.2  |





#90

Benzo(a)pyrene

Concen: 2.470 ng

RT: 15.04 min Scan# 2227

Delta R.T. -0.02 min

Lab File: BF115135.D

Acq: 22 Jun 2019 21:43

Instrument :

BNA\_F

ClientSampleId :

OR-02-061919-A

Tot Ion: 252 Resp: 199430

Ion Ratio Lower Upper

252 100

253 24.1 18.3 27.5

125 13.8 10.9 16.3

