

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF081319\  
 Data File : BF116222.D  
 Acq On : 13 Aug 2019 10:56  
 Operator : HP/JU  
 Sample : PB122176BL  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB122176BL

Quant Time: Aug 13 23:16:14 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF073019.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 07 11:13:18 2019  
 Response via : Initial Calibration

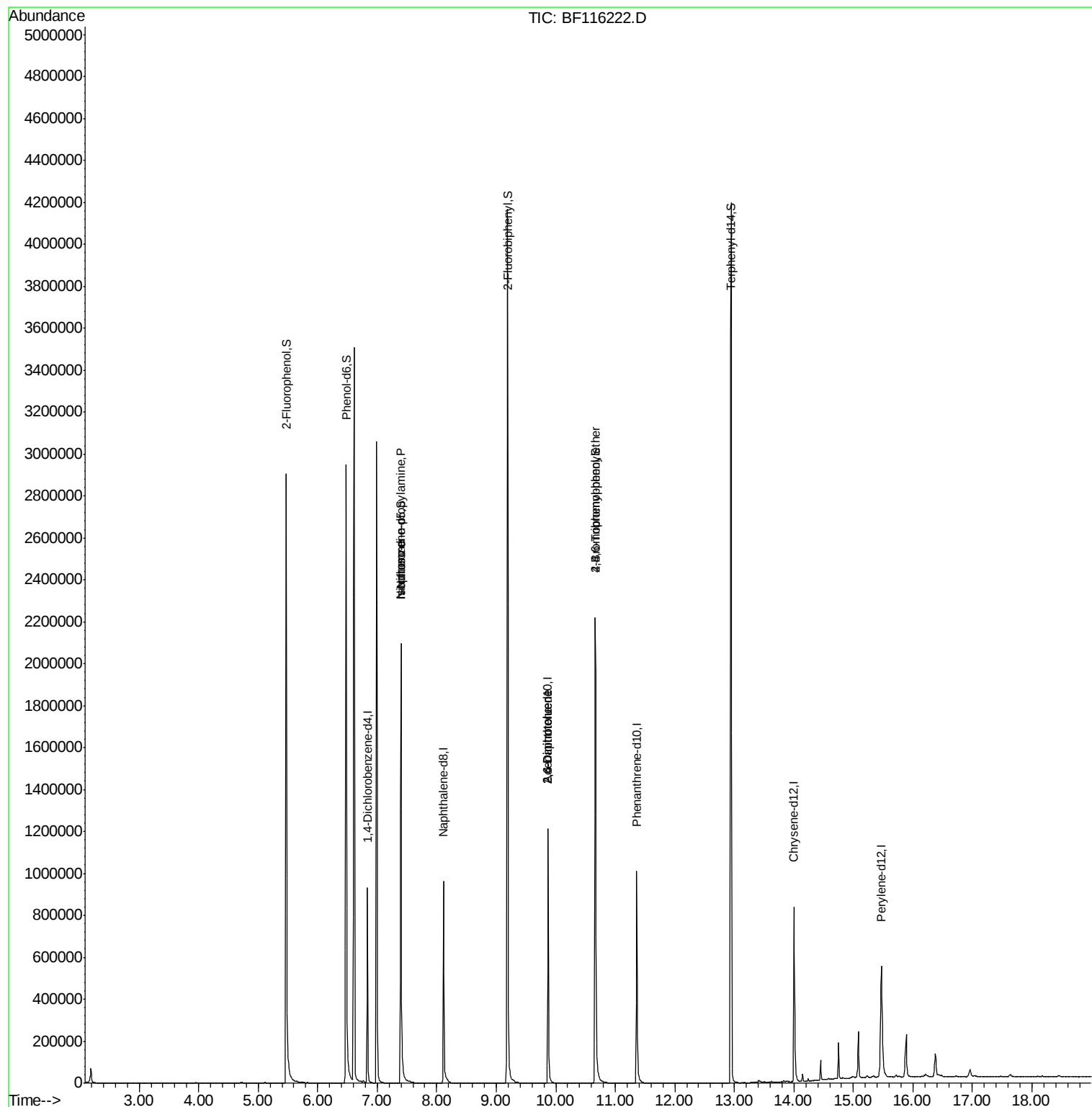
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.83  | 152  | 136336   | 20.00  | ng    | -0.01    |
| 21) Naphthalene-d8             | 8.12  | 136  | 528318   | 20.00  | ng    | -0.01    |
| 39) Acenaphthene-d10           | 9.87  | 164  | 283176   | 20.00  | ng    | -0.02    |
| 64) Phenanthrene-d10           | 11.36 | 188  | 501425   | 20.00  | ng    | -0.01    |
| 76) Chrysene-d12               | 14.00 | 240  | 357304   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 15.47 | 264  | 329732   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.47  | 112  | 1013611  | 124.46 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.48  | 99   | 1325307  | 128.98 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.40  | 82   | 863482   | 94.34  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol       | 10.67 | 330  | 361584   | 131.70 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.19  | 172  | 1481213  | 97.98  | ng    | -0.01    |
| 79) Terphenyl-d14              | 12.94 | 244  | 1635725  | 96.47  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.40  | 70   | 115004   | 18.062 | ng    | # 79     |
| 25) Isophorone                 | 7.40  | 82   | 863477   | 49.338 | ng    | # 65     |
| 51) 2,6-Dinitrotoluene         | 9.87  | 165  | 35295    | 8.423  | ng    | # 29     |
| 57) 2,4-Dinitrotoluene         | 9.87  | 165  | 35289    | 6.326  | ng    | # 20     |
| 67) 4-Bromophenyl-phenylether  | 10.66 | 248  | 21529    | 4.011  | ng    | # 1      |

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

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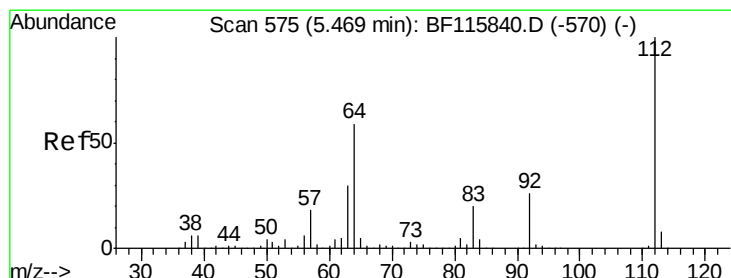
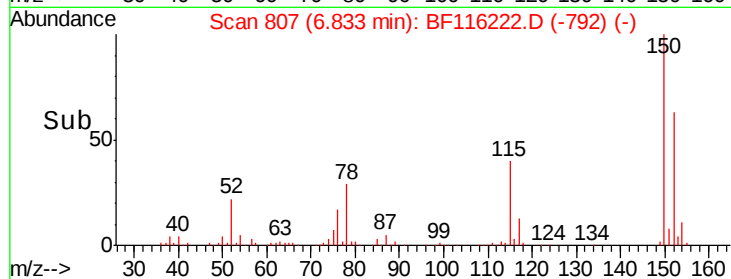
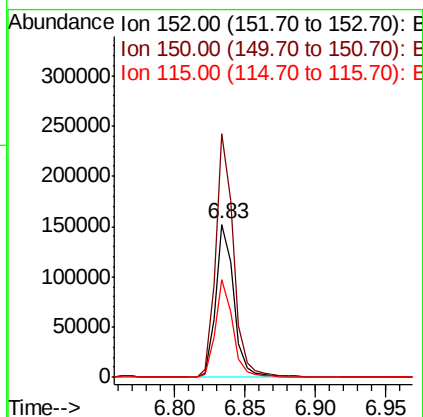
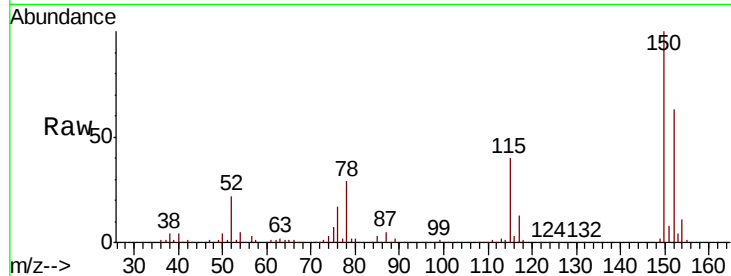




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.83 min Scan# 807  
 Delta R.T. -0.01 min  
 Lab File: BF116222.D  
 Acq: 13 Aug 2019 10:56

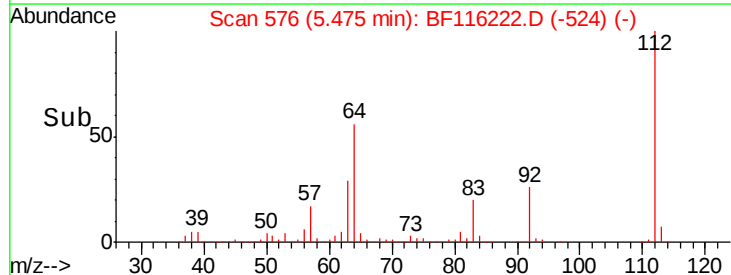
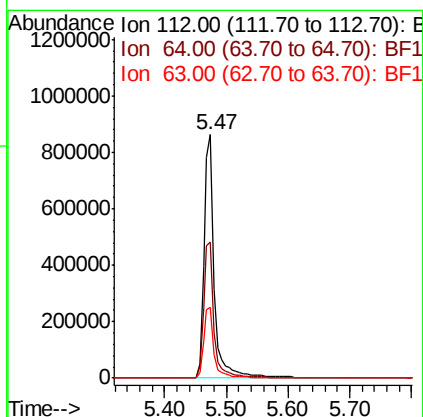
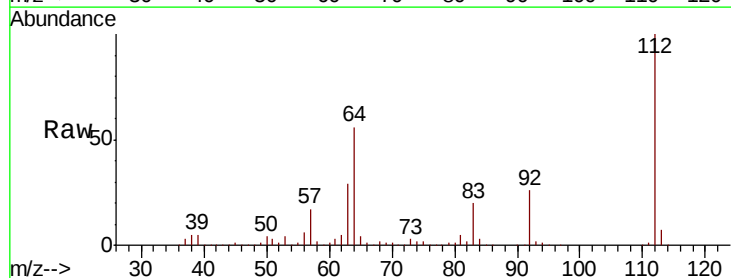
Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB122176BL

Tgt Ion:152 Resp: 136336  
 Ion Ratio Lower Upper  
 152 100  
 150 159.2 126.2 189.2  
 115 63.8 49.9 74.9



#5  
 2-Fluorophenol  
 Concen: 124.461 ng  
 RT: 5.47 min Scan# 576  
 Delta R.T. 0.01 min  
 Lab File: BF116222.D  
 Acq: 13 Aug 2019 10:56

Tgt Ion:112 Resp: 1013611  
 Ion Ratio Lower Upper  
 112 100  
 64 56.1 45.4 68.2  
 63 29.1 23.7 35.5





#7

Phenol-d6

Concen: 128.982 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF116222.D

Acq: 13 Aug 2019 10:56

Instrument :

BNA\_F

ClientSampleId :

PB122176BL

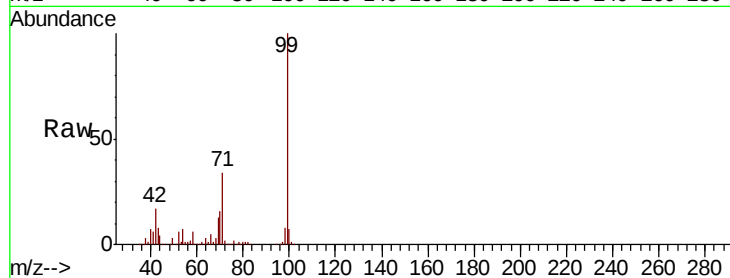
Tgt Ion: 99 Resp: 1325307

Ion Ratio Lower Upper

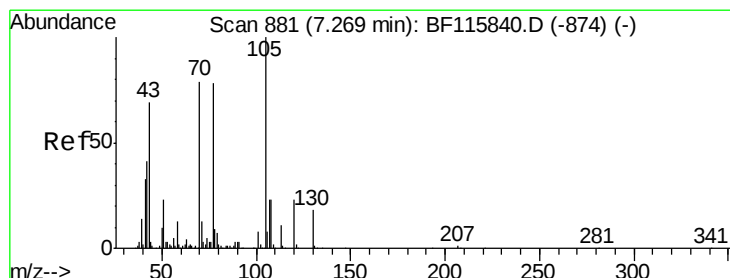
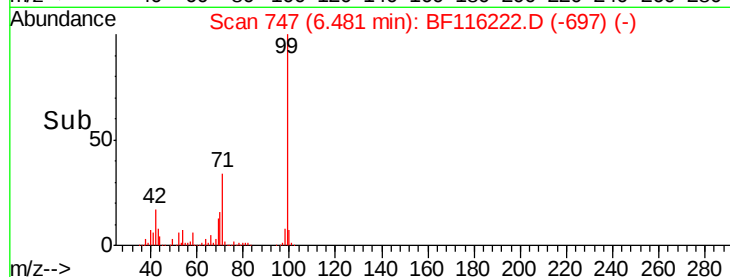
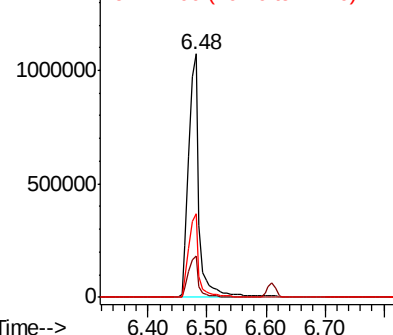
99 100

42 16.8 13.8 20.8

71 34.5 27.3 40.9



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: 18.062 ng

RT: 7.40 min Scan# 903

Delta R.T. 0.13 min

Lab File: BF116222.D

Acq: 13 Aug 2019 10:56

Tgt Ion: 70 Resp: 115004

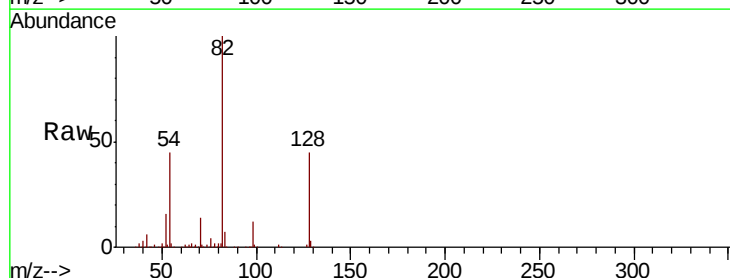
Ion Ratio Lower Upper

70 100

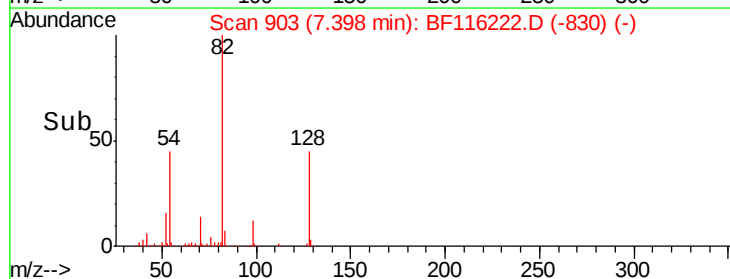
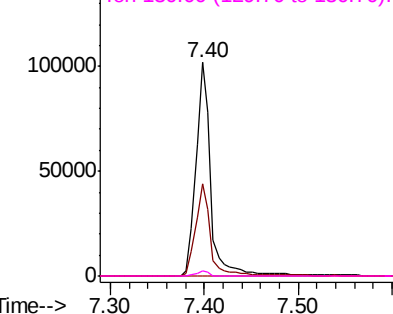
42 43.0 40.9 61.3

101 0.0 7.9 11.9#

130 2.4 16.9 25.3#



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

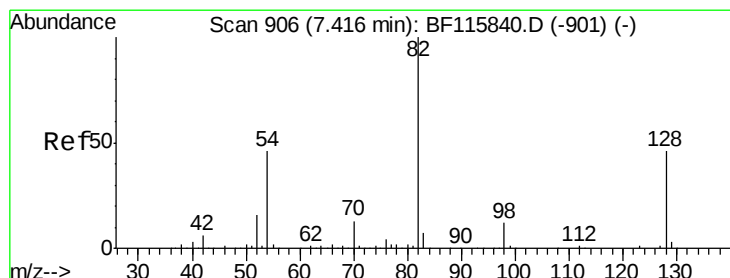
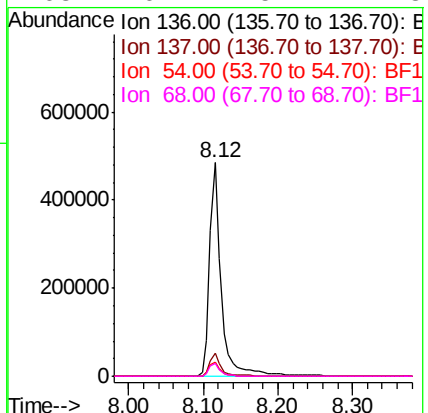
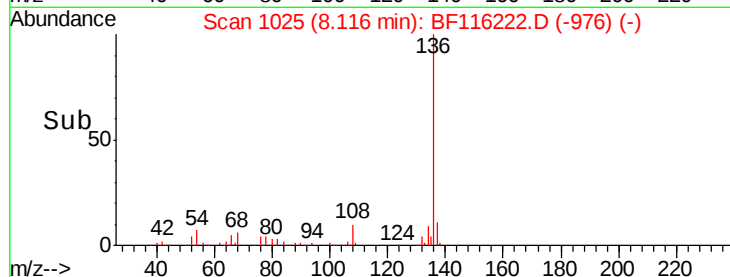
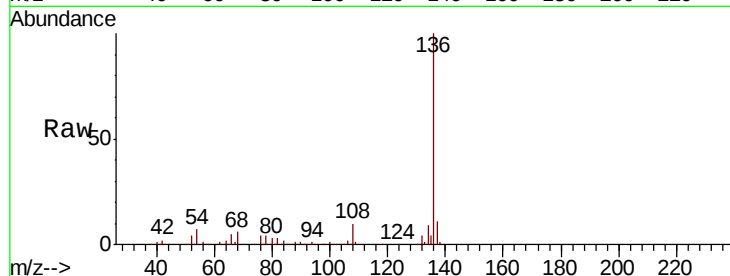




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.12 min Scan# 1025  
Delta R.T. -0.01 min  
Lab File: BF116222.D  
Acq: 13 Aug 2019 10:56

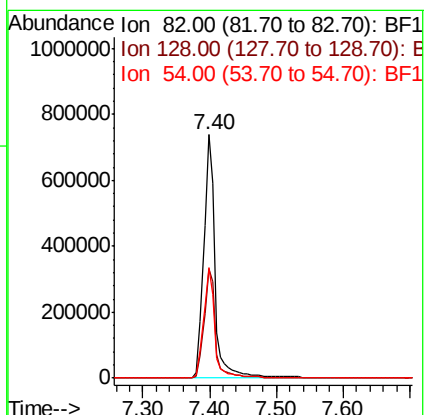
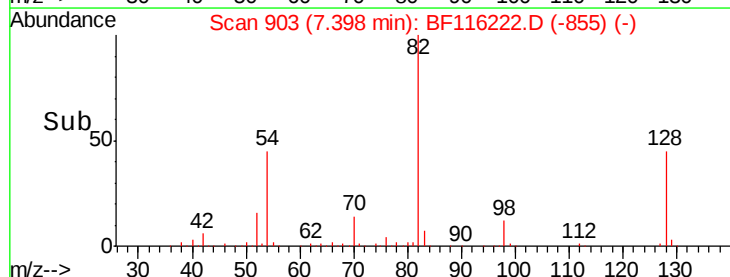
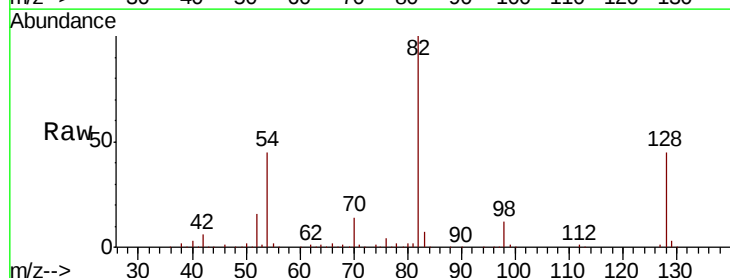
Instrument :  
BNA\_F  
ClientSampleId :  
PB122176BL

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 528318 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.0  | 9.0   | 13.4   |
| 54       | 6.8   | 5.8   | 8.6    |
| 68       | 6.2   | 5.2   | 7.8    |



#23  
Nitrobenzene-d5  
Concen: 94.343 ng  
RT: 7.40 min Scan# 903  
Delta R.T. -0.02 min  
Lab File: BF116222.D  
Acq: 13 Aug 2019 10:56

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 863482 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 44.6  | 36.5  | 54.7   |
| 54       | 45.5  | 36.0  | 54.0   |





#25

Isophorone

Concen: 49.338 ng

RT: 7.40 min Scan# 903

Delta R.T. -0.28 min

Lab File: BF116222.D

Acq: 13 Aug 2019 10:56

Instrument :

BNA\_F

ClientSampleId :

PB122176BL

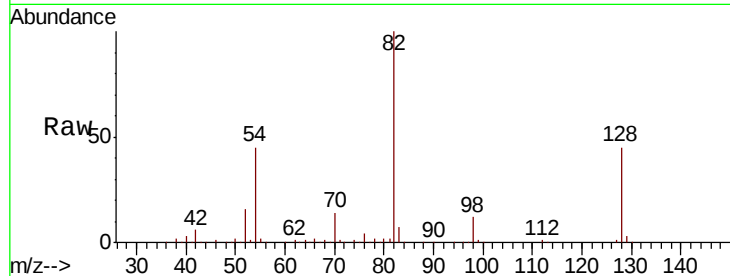
Tgt Ion: 82 Resp: 863477

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.0#

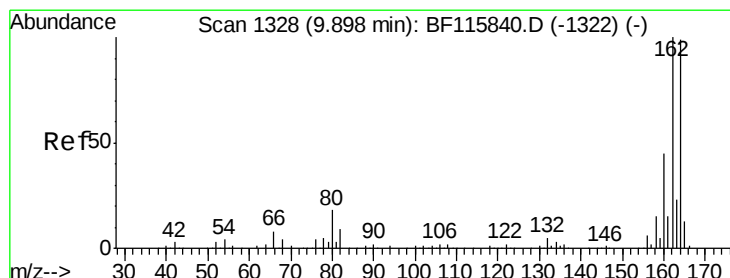
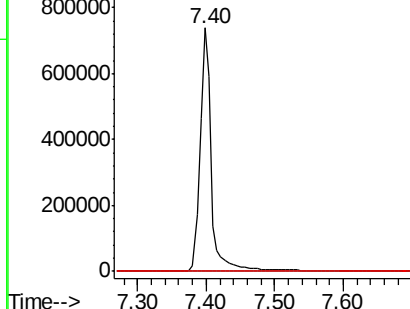
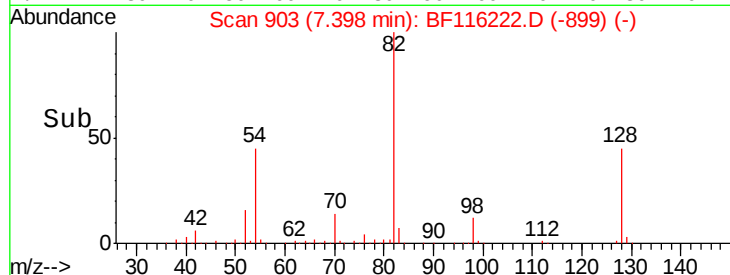
138 0.0 14.5 21.7#



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# 1323

Delta R.T. -0.02 min

Lab File: BF116222.D

Acq: 13 Aug 2019 10:56

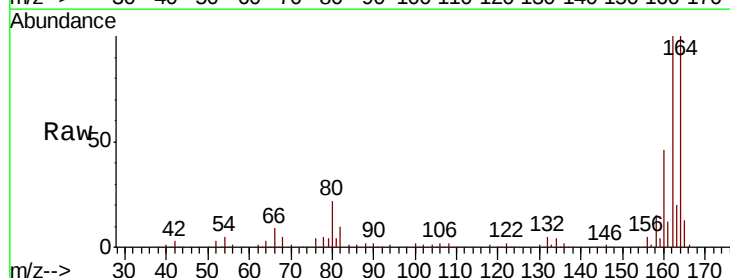
Tgt Ion: 164 Resp: 283176

Ion Ratio Lower Upper

164 100

162 100.4 82.6 124.0

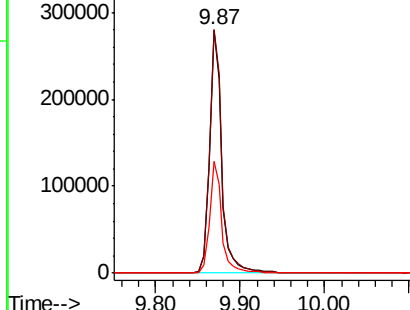
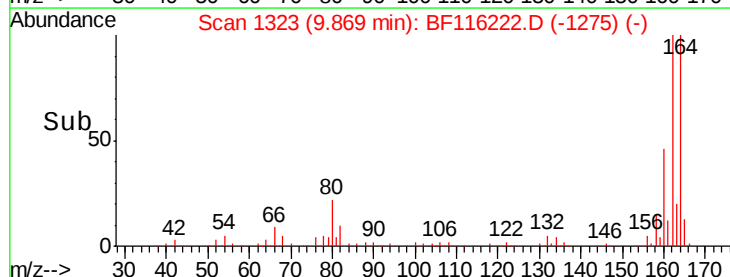
160 45.8 37.6 56.4



Abundance Ion 164.00 (163.70 to 164.70): BF1

Ion 162.00 (161.70 to 162.70): BF1

Ion 160.00 (159.70 to 160.70): BF1





#42

2,4,6-Tribromophenol

Concen: 131.702 ng

RT: 10.67 min Scan# 1459

Delta R.T. -0.01 min

Lab File: BF116222.D

Acq: 13 Aug 2019 10:56

Instrument :

BNA\_F

ClientSampleId :

PB122176BL

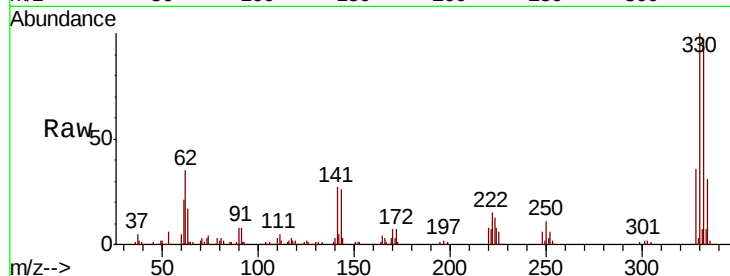
Tgt Ion:330 Resp: 361584

Ion Ratio Lower Upper

330 100

332 94.7 76.8 115.2

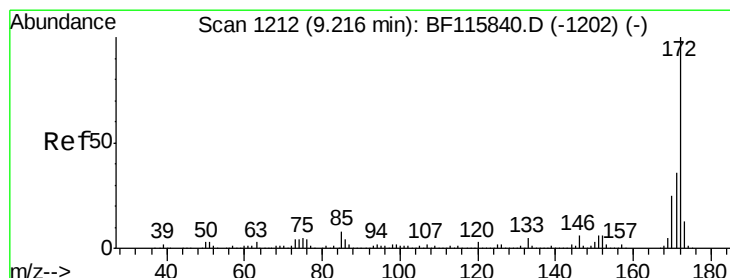
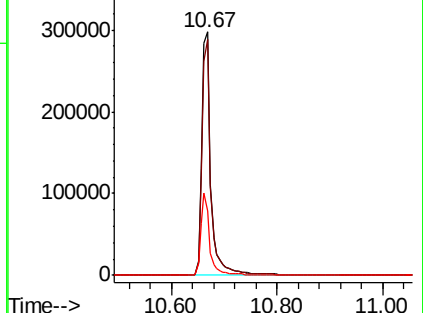
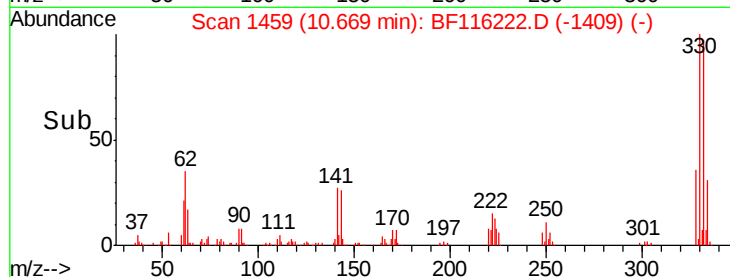
141 32.8 26.3 39.5



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: 97.975 ng

RT: 9.19 min Scan# 1208

Delta R.T. -0.01 min

Lab File: BF116222.D

Acq: 13 Aug 2019 10:56

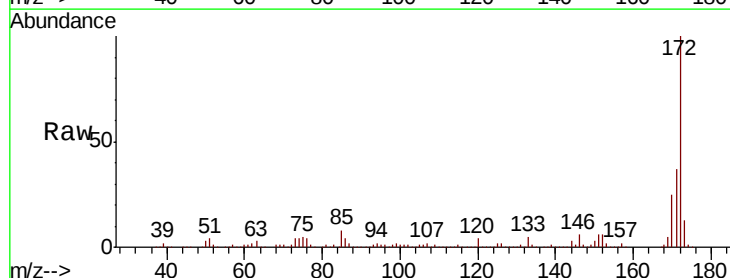
Tgt Ion:172 Resp: 1481213

Ion Ratio Lower Upper

172 100

171 36.7 29.6 44.4

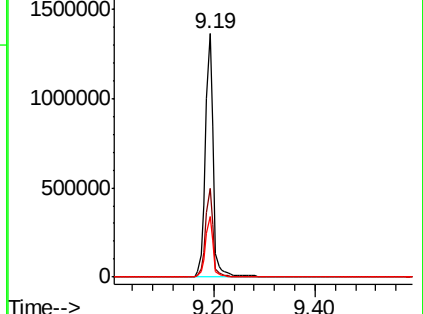
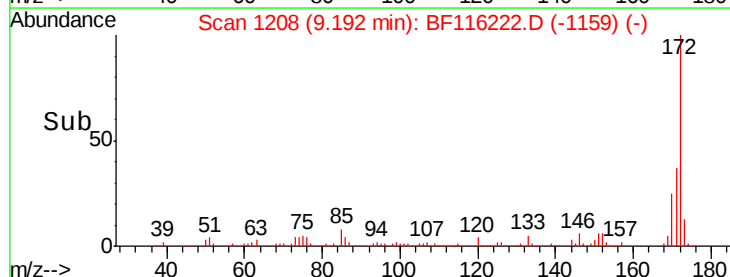
170 24.8 20.1 30.1

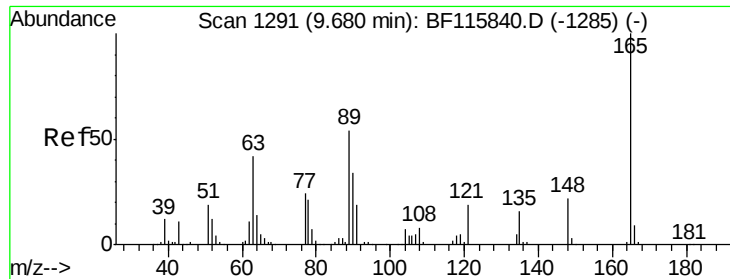


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

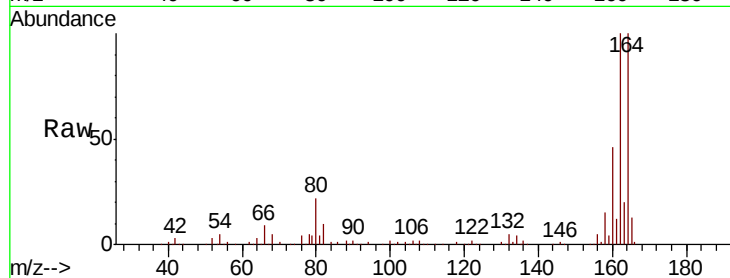




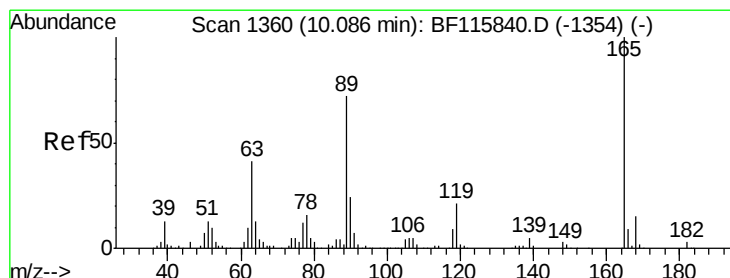
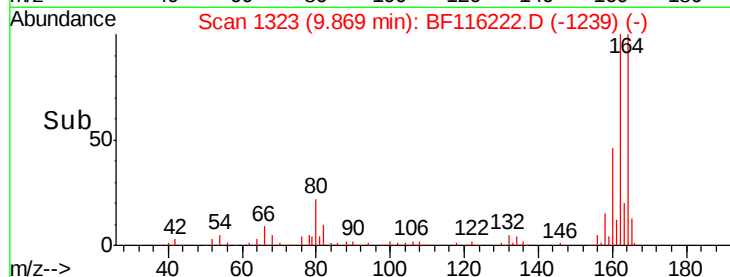
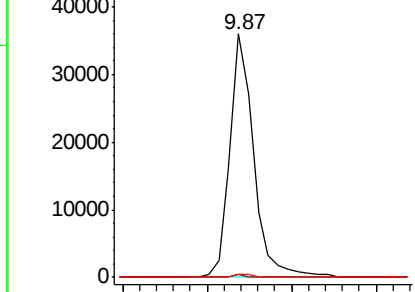
#51  
 2,6-Dinitrotoluene  
 Concen: 8.423 ng  
 RT: 9.87 min Scan# 1323  
 Delta R.T. 0.19 min  
 Lab File: BF116222.D  
 Acq: 13 Aug 2019 10:56

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PB122176BL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.1   | 38.2  | 57.2# |
| 89      | 1.2   | 42.9  | 64.3# |



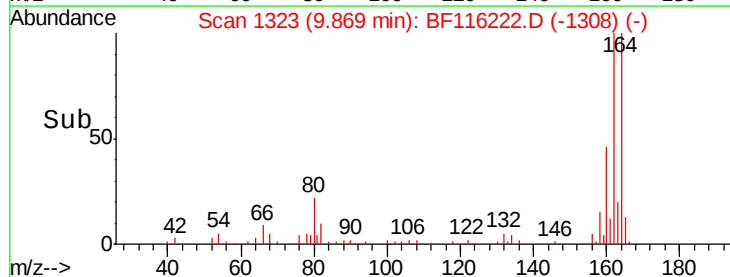
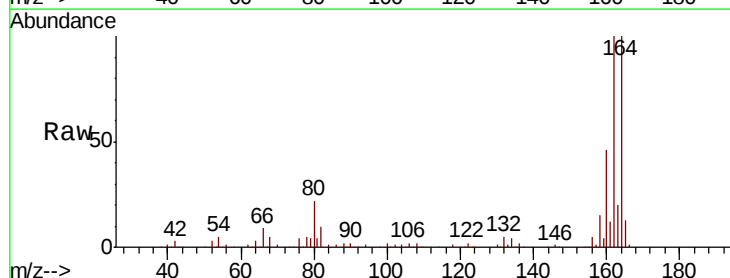
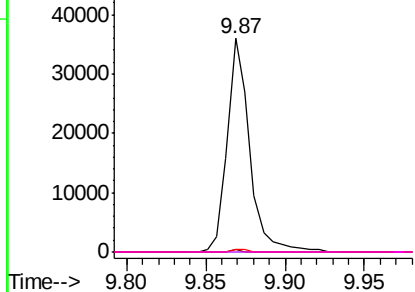
Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1



#57  
 2,4-Dinitrotoluene  
 Concen: 6.326 ng  
 RT: 9.87 min Scan# 1323  
 Delta R.T. -0.21 min  
 Lab File: BF116222.D  
 Acq: 13 Aug 2019 10:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.1   | 39.6  | 59.4# |
| 89      | 1.2   | 62.2  | 93.2# |
| 182     | 0.0   | 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





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.36 min Scan# 1576

Delta R.T. -0.01 min

Lab File: BF116222.D

Acq: 13 Aug 2019 10:56

Instrument :

BNA\_F

ClientSampleId :

PB122176BL

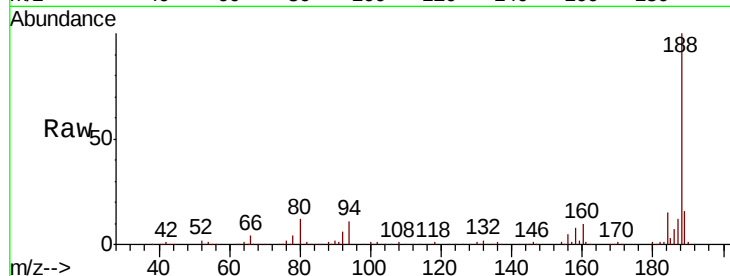
Tgt Ion:188 Resp: 501425

Ion Ratio Lower Upper

188 100

94 10.7 8.1 12.1

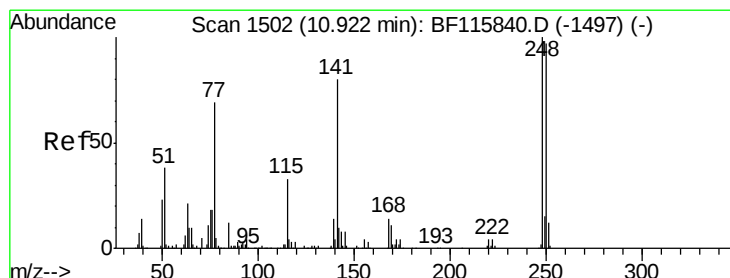
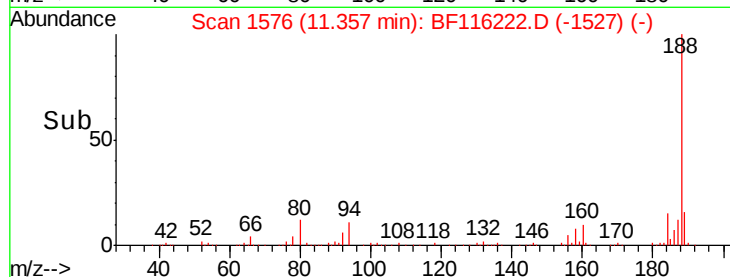
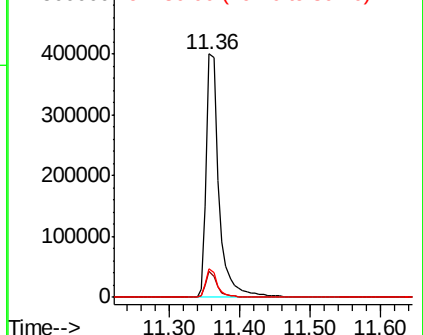
80 11.7 8.7 13.1



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



#67

4-Bromophenyl-phenylether

Concen: 4.011 ng

RT: 10.66 min Scan# 1458

Delta R.T. -0.25 min

Lab File: BF116222.D

Acq: 13 Aug 2019 10:56

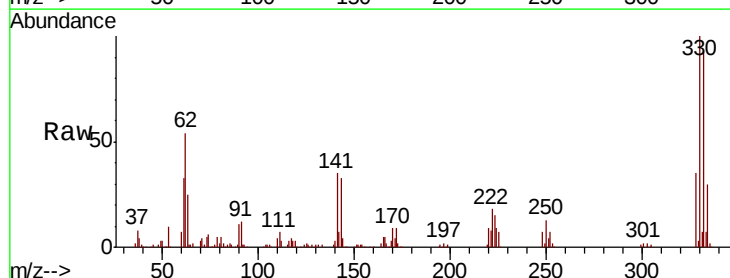
Tgt Ion:248 Resp: 21529

Ion Ratio Lower Upper

248 100

250 199.9 77.4 116.2#

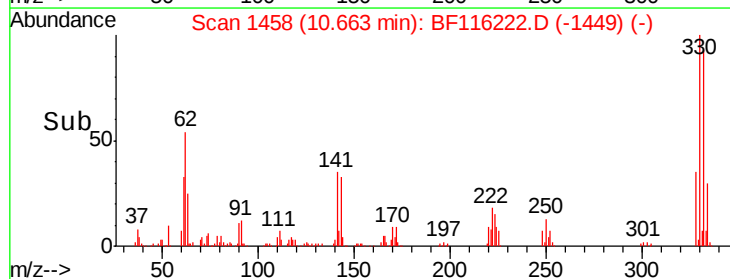
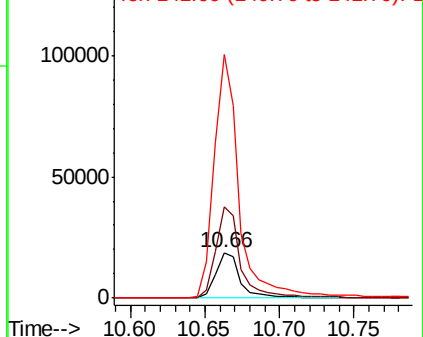
141 535.1 56.8 85.2#



Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

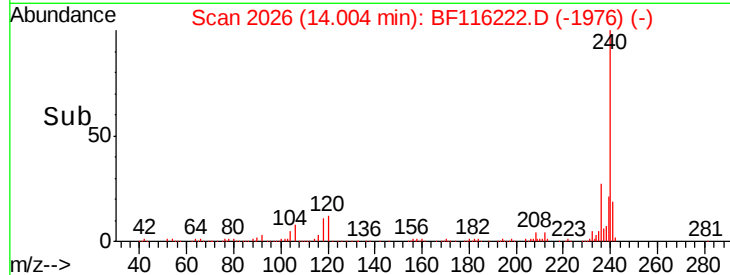
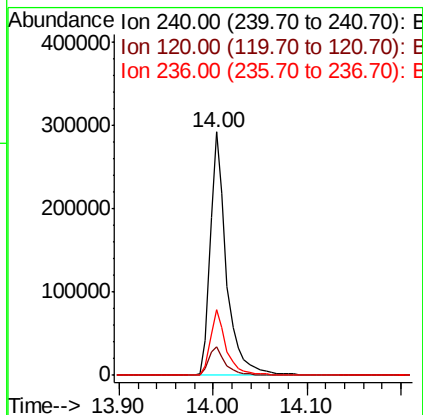
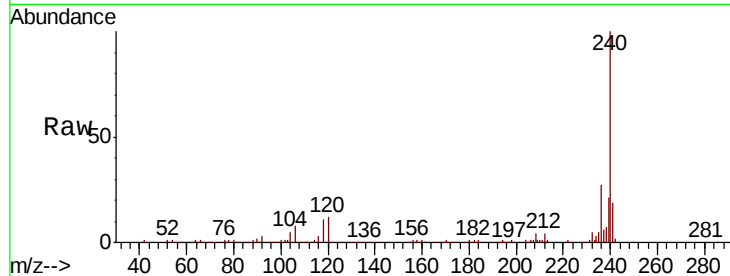




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.00 min Scan# 2026  
Delta R.T. -0.01 min  
Lab File: BF116222.D  
Acq: 13 Aug 2019 10:56

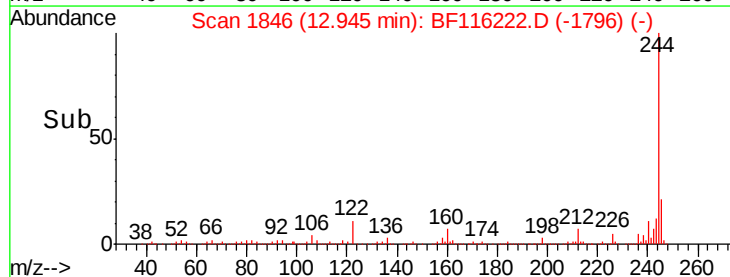
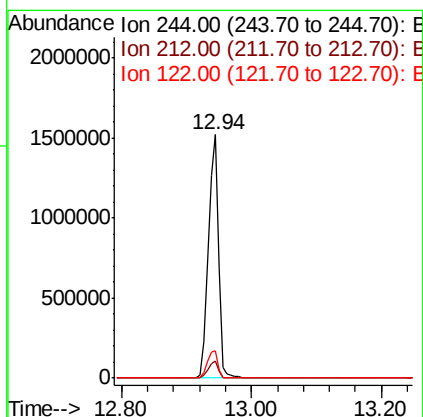
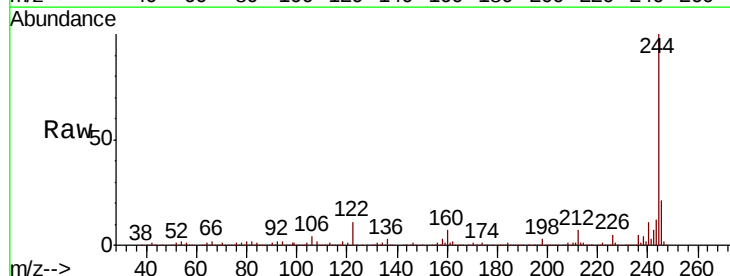
Instrument :  
BNA\_F  
ClientSampleId :  
PB122176BL

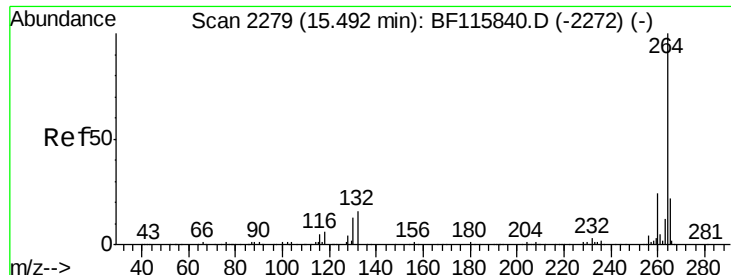
Tgt Ion:240 Resp: 357304  
Ion Ratio Lower Upper  
240 100  
120 11.9 10.7 16.1  
236 27.0 22.2 33.2



#79  
Terphenyl-d14  
Concen: 96.465 ng  
RT: 12.94 min Scan# 1846  
Delta R.T. -0.01 min  
Lab File: BF116222.D  
Acq: 13 Aug 2019 10:56

Tgt Ion:244 Resp: 1635725  
Ion Ratio Lower Upper  
244 100  
212 7.2 5.8 8.8  
122 11.0 9.0 13.4





#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.47 min Scan# 2276  
Delta R.T. -0.00 min  
Lab File: BF116222.D  
Acq: 13 Aug 2019 10:56

Instrument :  
BNA\_F  
ClientSampleId :  
PB122176BL

Tgt Ion: 264 Resp: 329732  
Ion Ratio Lower Upper  
264 100  
260 24.3 19.7 29.5  
265 21.8 17.4 26.0

