

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081319\  
 Data File : BF116256.D  
 Acq On : 14 Aug 2019 3:04  
 Operator : HP/JU  
 Sample : K4096-01 5X  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Aug 14 05:30:55 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

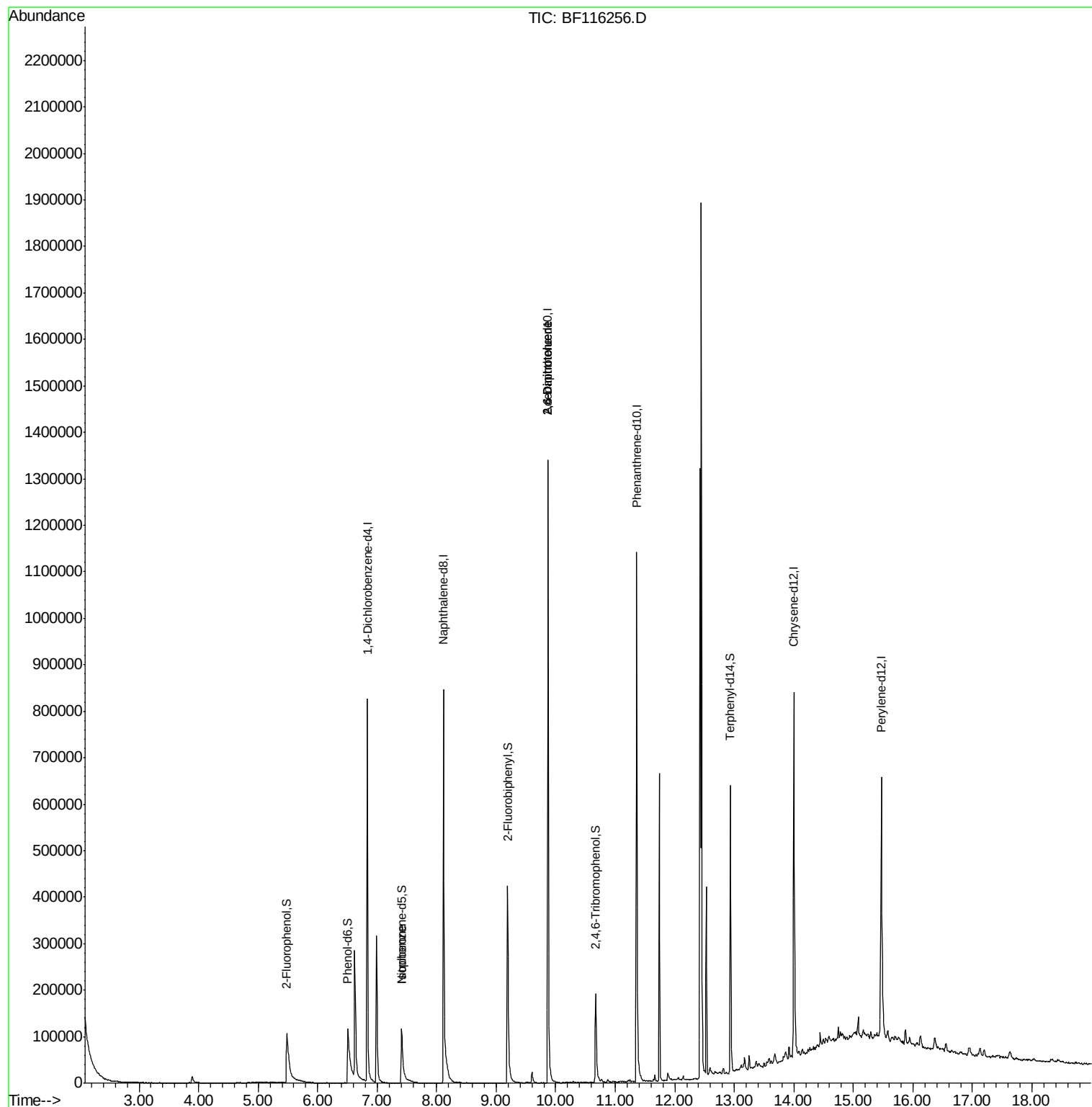
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.83  | 152  | 138145   | 20.00 | ng    | -0.01    |
| 21) Naphthalene-d8          | 8.12  | 136  | 581413   | 20.00 | ng    | -0.01    |
| 39) Acenaphthene-d10        | 9.87  | 164  | 306404   | 20.00 | ng    | -0.02    |
| 64) Phenanthrene-d10        | 11.36 | 188  | 520440   | 20.00 | ng    | -0.01    |
| 76) Chrysene-d12            | 14.00 | 240  | 340986   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12            | 15.47 | 264  | 333110   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.48  | 112  | 114712   | 13.90 | ng    | 0.01     |
| 7) Phenol-d6                | 6.50  | 99   | 159814   | 15.35 | ng    | 0.02     |
| 23) Nitrobenzene-d5         | 7.41  | 82   | 102121   | 10.14 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.67 | 330  | 39819    | 13.40 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.19  | 172  | 217708   | 13.31 | ng    | -0.01    |
| 79) Terphenyl-d14           | 12.93 | 244  | 216900   | 13.40 | ng    | -0.02    |
| Target Compounds            |       |      |          |       |       |          |
| 25) Isophorone              | 7.41  | 82   | 102850   | 5.340 | ng    | # 65     |
| 51) 2,6-Dinitrotoluene      | 9.87  | 165  | 38405    | 8.471 | ng    | # 29     |
| 57) 2,4-Dinitrotoluene      | 9.87  | 165  | 38406    | 6.362 | ng    | # 20     |

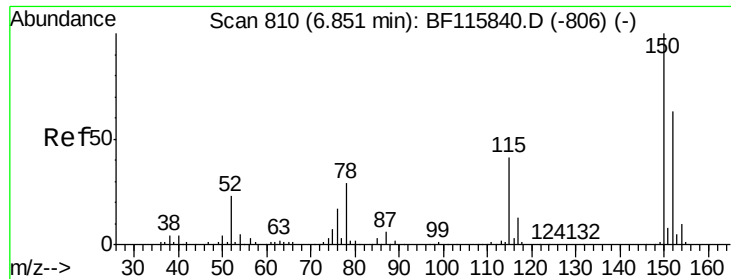
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081319\  
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Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :

Quant Time: Aug 14 05:30:55 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



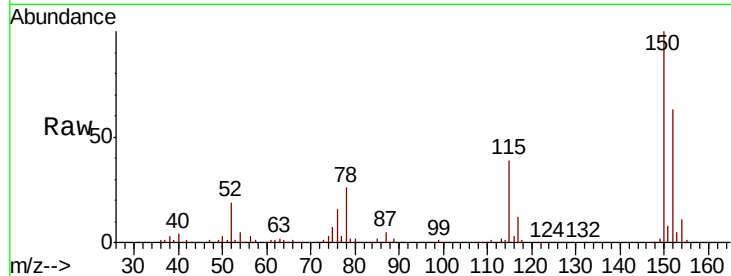


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.83 min Scan# 807  
Delta R.T. -0.01 min  
Lab File: BF116256.D  
Acq: 14 Aug 2019 3:04

Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.1 | 126.2 | 189.2 |
| 115     | 61.3  | 49.9  | 74.9  |

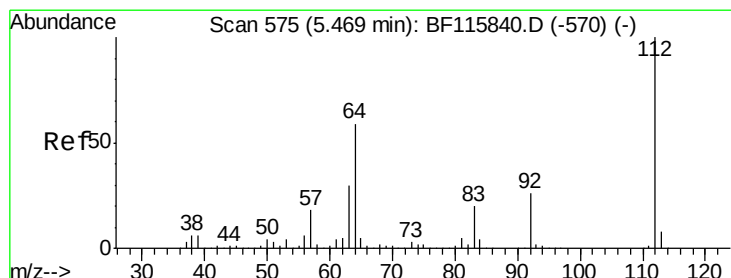
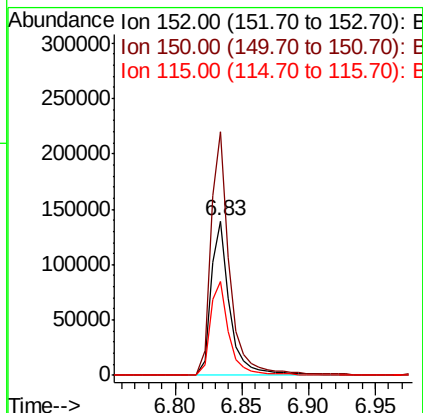
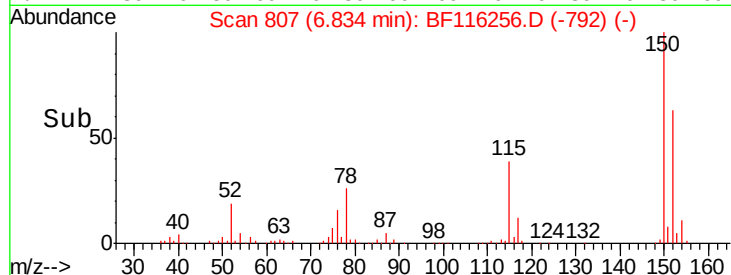


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

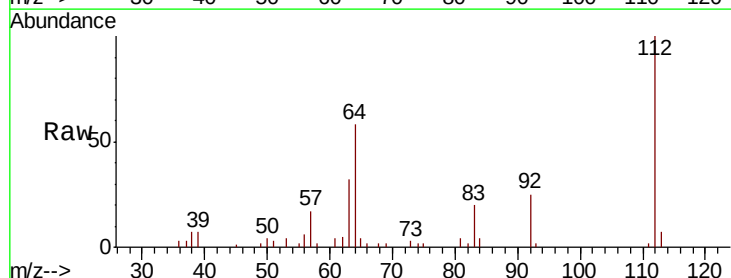
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 13.901 ng  
RT: 5.48 min Scan# 577  
Delta R.T. 0.01 min  
Lab File: BF116256.D  
Acq: 14 Aug 2019 3:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.0  | 45.4  | 68.2  |
| 63      | 32.2  | 23.7  | 35.5  |

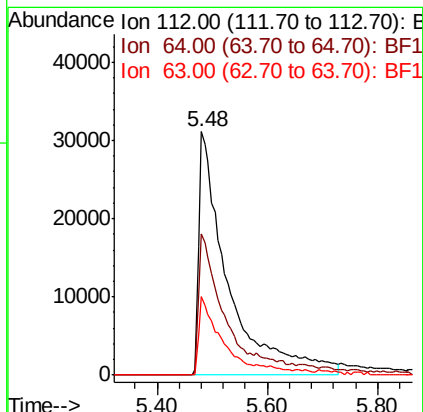
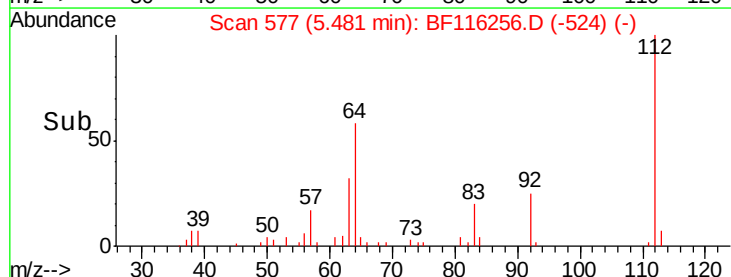


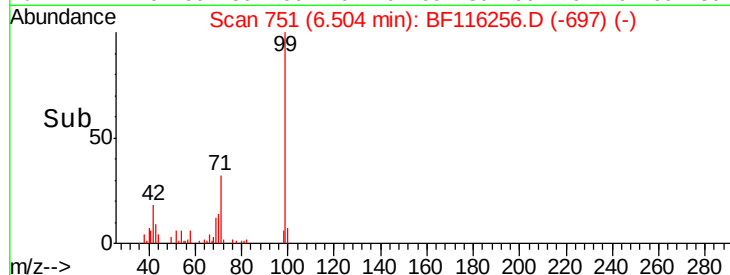
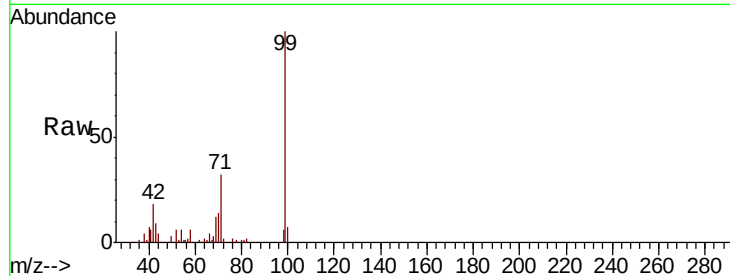
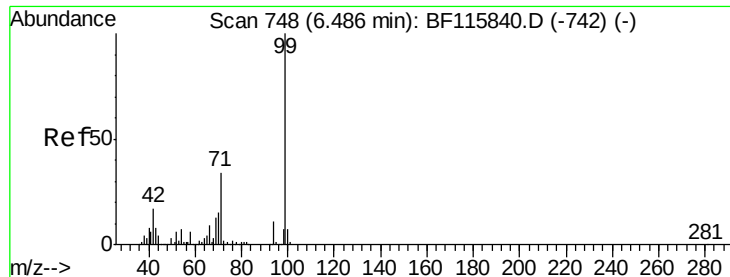
Abundance

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: 15.350 ng

RT: 6.50 min Scan# 751

Delta R.T. 0.02 min

Lab File: BF116256.D

Acq: 14 Aug 2019 3:04

Instrument :

BNA\_F

ClientSampleId :

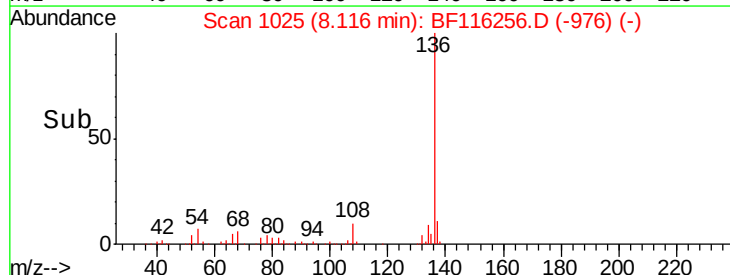
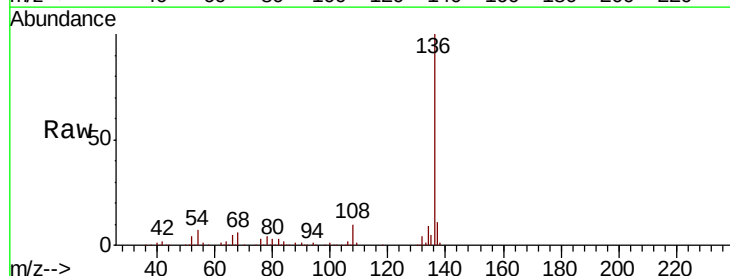
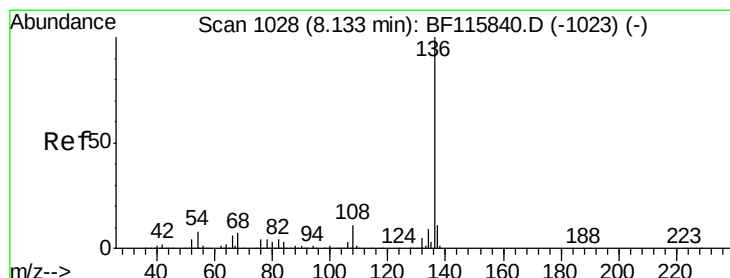
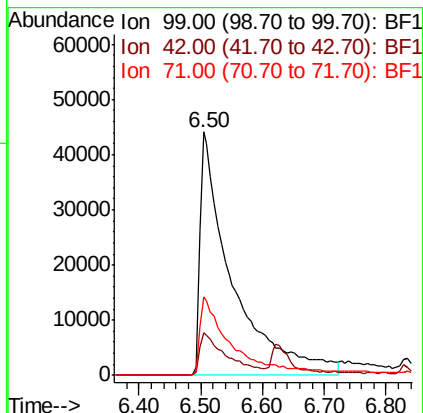
Tot Ion: 99 Resp: 159814

Ion Ratio Lower Upper

99 100

42 17.8 13.8 20.8

71 32.0 27.3 40.9



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.12 min Scan# 1025

Delta R.T. -0.01 min

Lab File: BF116256.D

Acq: 14 Aug 2019 3:04

Tgt Ion: 136 Resp: 581413

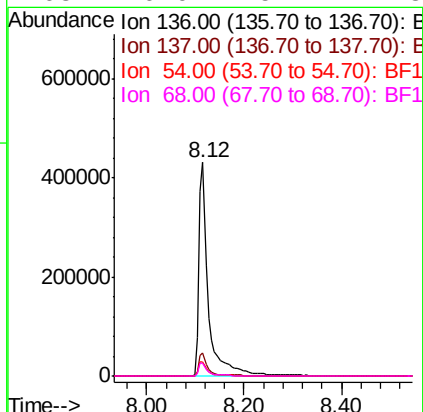
Ion Ratio Lower Upper

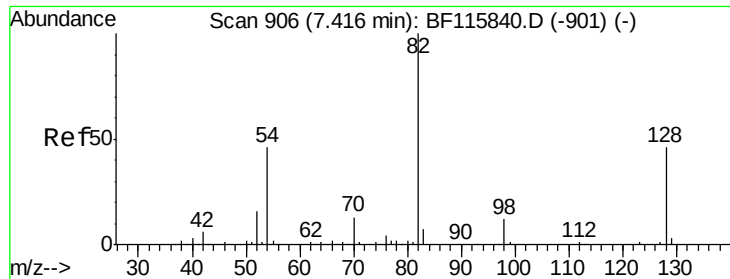
136 100

137 10.9 9.0 13.4

54 6.6 5.8 8.6

68 6.0 5.2 7.8

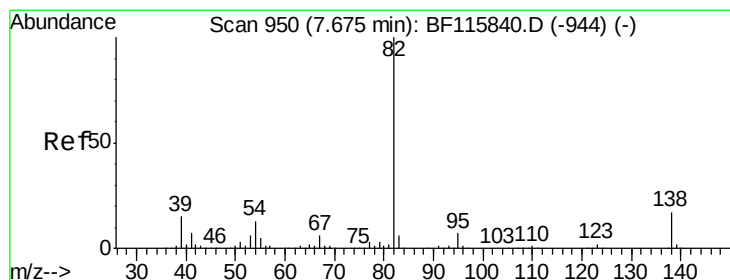
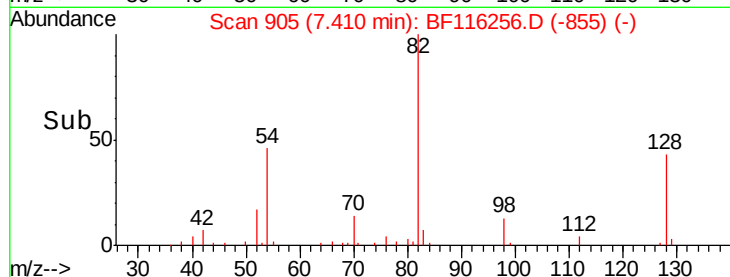
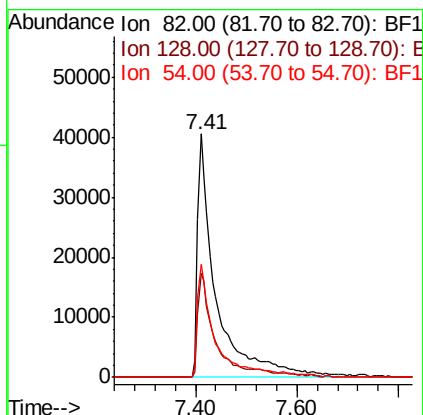
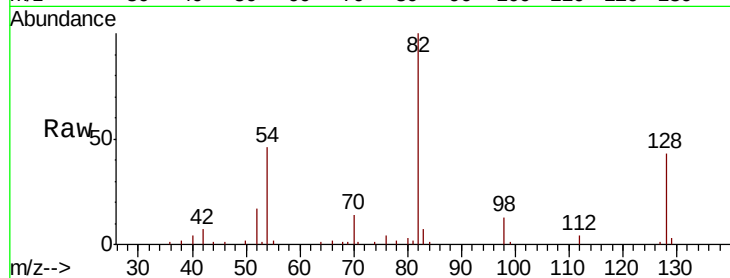




#23  
 Nitrobenzene-d5  
 Concen: 10.139 ng  
 RT: 7.41 min Scan# 905  
 Delta R.T. -0.01 min  
 Lab File: BF116256.D  
 Acq: 14 Aug 2019 3:04

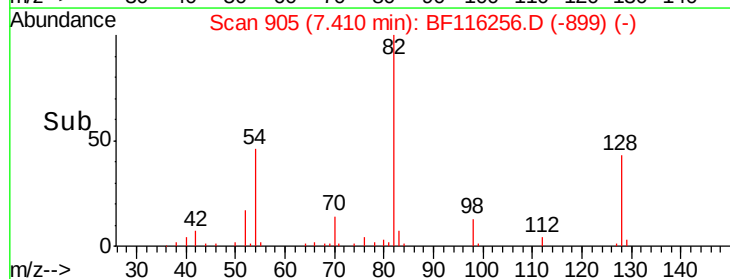
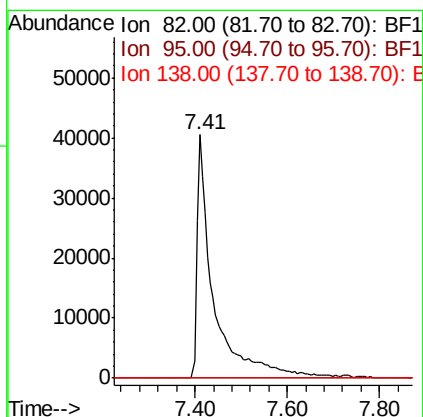
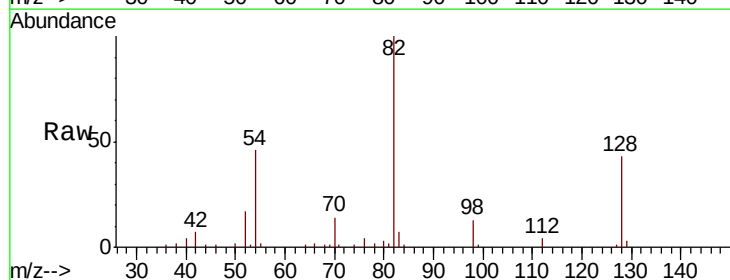
Instrument :  
 BNA\_F  
 ClientSampled :

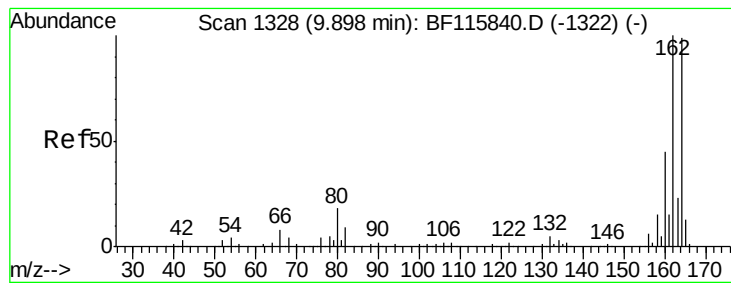
Tot Ion: 82 Resp: 102121  
 Ion Ratio Lower Upper  
 82 100  
 128 42.9 36.5 54.7  
 54 46.3 36.0 54.0



#25  
 Isophorone  
 Concen: 5.340 ng  
 RT: 7.41 min Scan# 905  
 Delta R.T. -0.26 min  
 Lab File: BF116256.D  
 Acq: 14 Aug 2019 3:04

Tgt Ion: 82 Resp: 102850  
 Ion Ratio Lower Upper  
 82 100  
 95 0.0 5.4 8.0#  
 138 0.0 14.5 21.7#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.87 min Scan# 1323

Delta R.T. -0.02 min

Lab File: BF116256.D

Acq: 14 Aug 2019 3:04

Instrument :

BNA\_F

ClientSampleId :

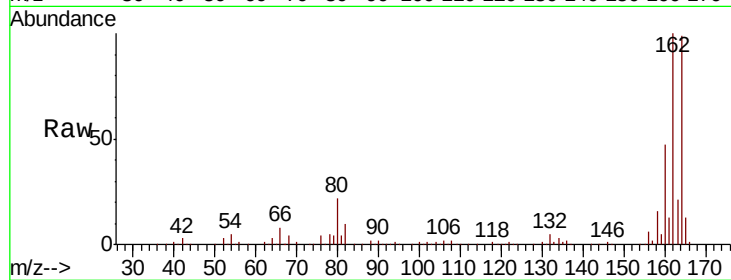
Tot Ion:164 Resp: 306404

Ion Ratio Lower Upper

164 100

162 100.5 82.6 124.0

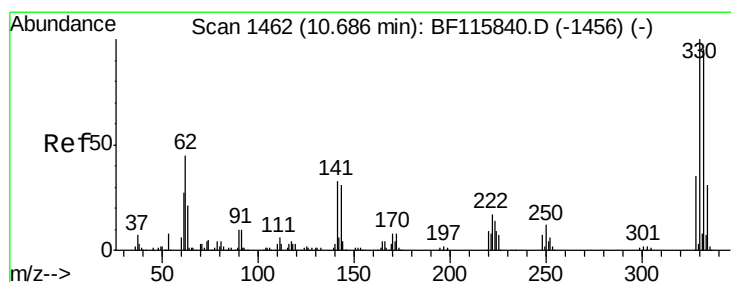
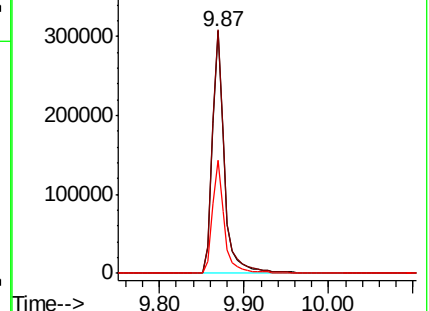
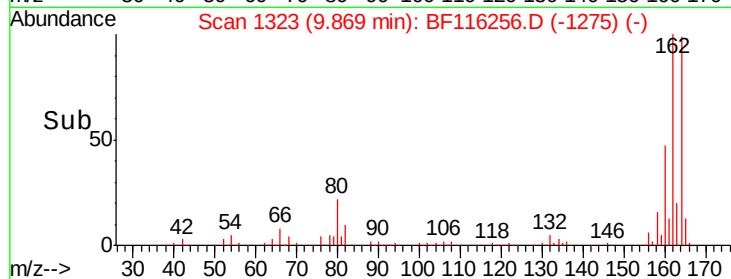
160 46.8 37.6 56.4



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: 13.404 ng

RT: 10.67 min Scan# 1459

Delta R.T. -0.01 min

Lab File: BF116256.D

Acq: 14 Aug 2019 3:04

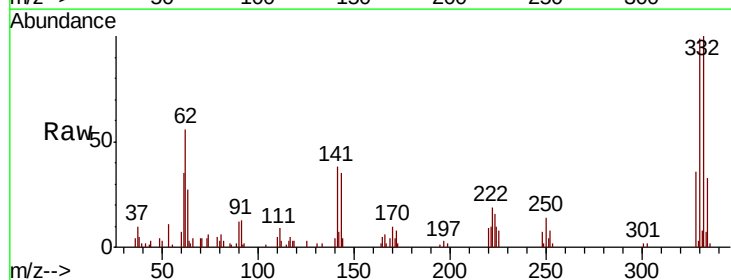
Tgt Ion:330 Resp: 39819

Ion Ratio Lower Upper

330 100

332 95.9 76.8 115.2

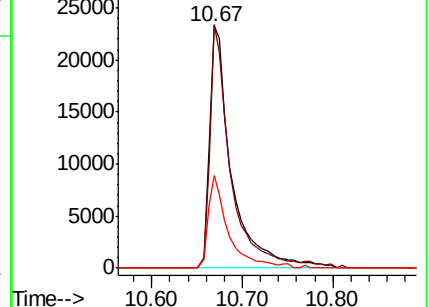
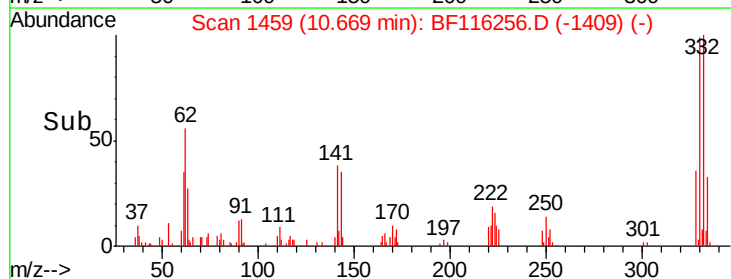
141 34.8 26.3 39.5

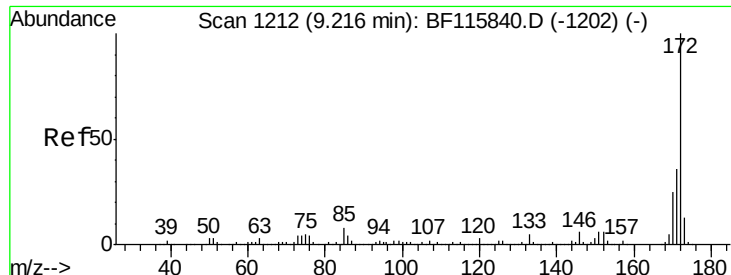


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

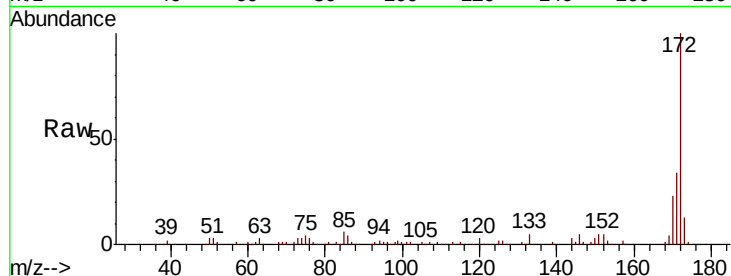




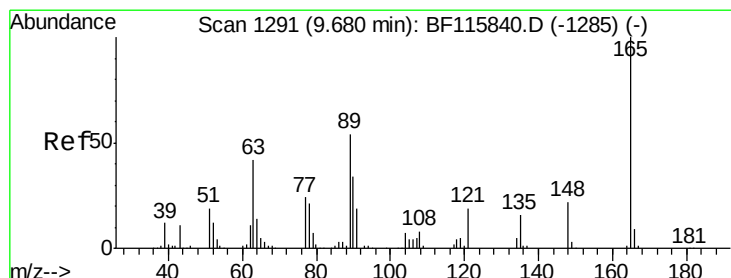
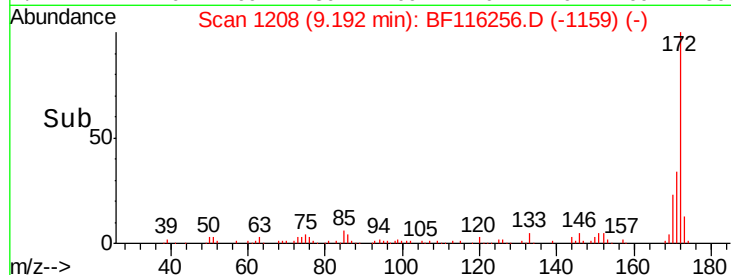
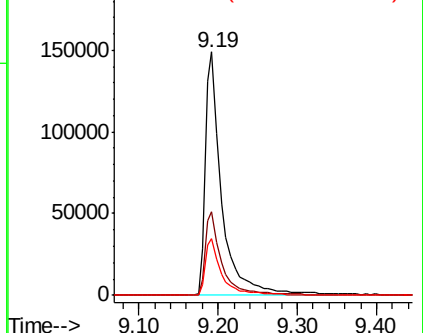
#45  
 2-Fluorobiphenyl  
 Concen: 13.309 ng  
 RT: 9.19 min Scan# 1208  
 Delta R.T. -0.01 min  
 Lab File: BF116256.D  
 Acq: 14 Aug 2019 3:04

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.4  | 29.6  | 44.4  |
| 170     | 23.1  | 20.1  | 30.1  |

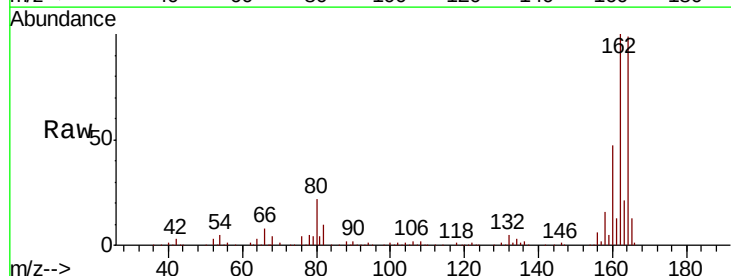


Abundance Ion 172.00 (171.70 to 172.70): E  
 Ion 171.00 (170.70 to 171.70): E  
 Ion 170.00 (169.70 to 170.70): E

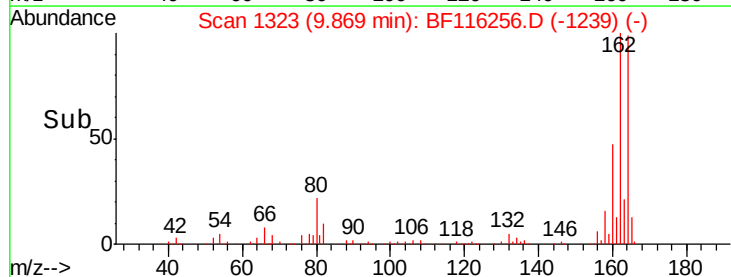
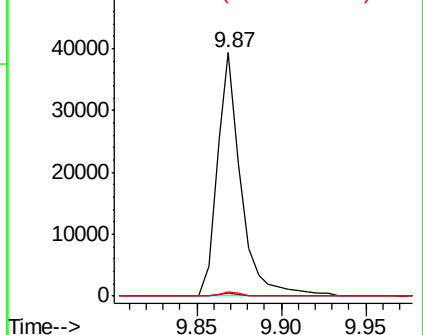


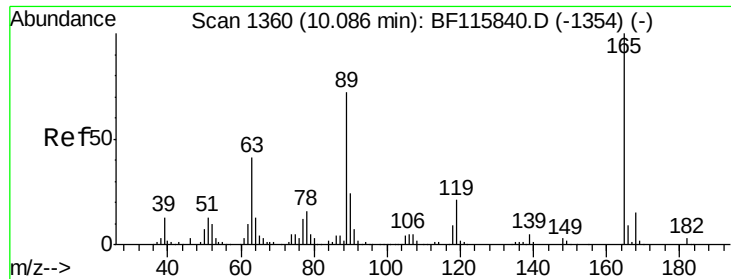
#51  
 2,6-Dinitrotoluene  
 Concen: 8.471 ng  
 RT: 9.87 min Scan# 1323  
 Delta R.T. 0.19 min  
 Lab File: BF116256.D  
 Acq: 14 Aug 2019 3:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.2   | 38.2  | 57.2# |
| 89      | 1.6   | 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: 6.362 ng

RT: 9.87 min Scan# 1323

Delta R.T. -0.21 min

Lab File: BF116256.D

Acq: 14 Aug 2019 3:04

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:165 Resp: 38406

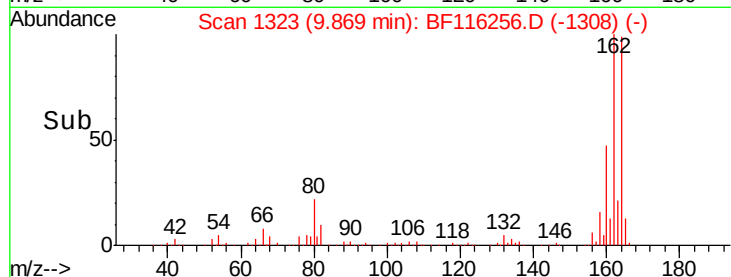
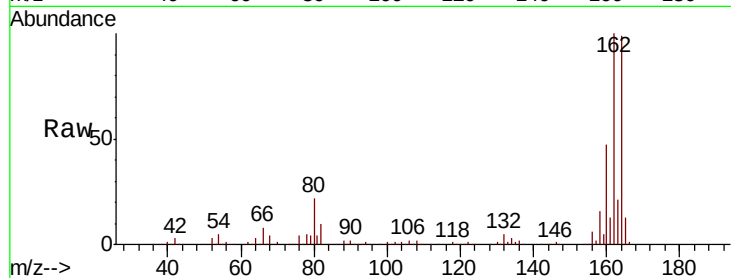
Ion Ratio Lower Upper

165 100

63 1.2 39.6 59.4#

89 1.6 62.2 93.2#

182 0.0 2.1 3.1#

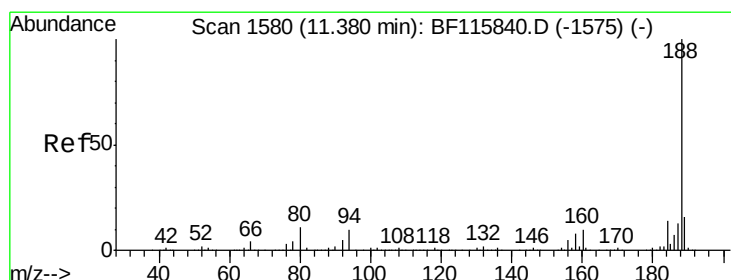
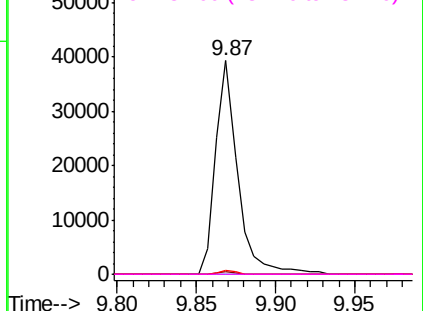


Abundance Ion 165.00 (164.70 to 165.70): E

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: BF116256.D

Acq: 14 Aug 2019 3:04

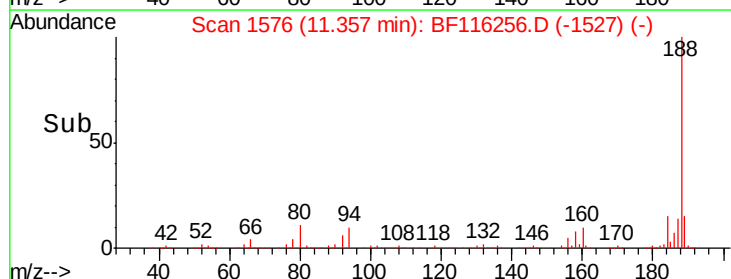
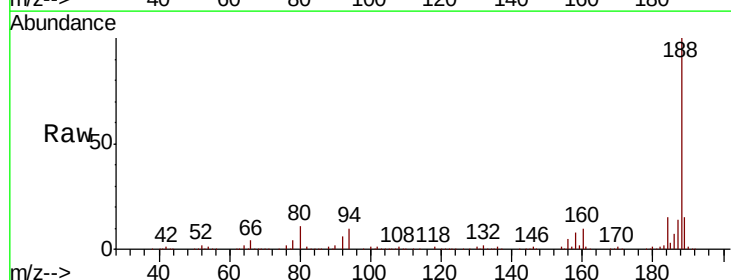
Tgt Ion:188 Resp: 520440

Ion Ratio Lower Upper

188 100

94 9.9 8.1 12.1

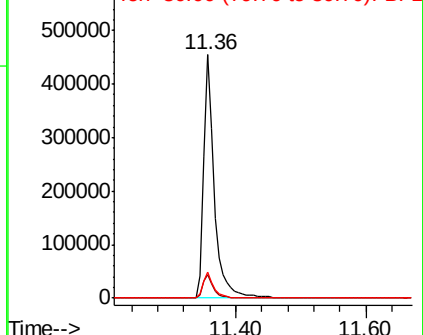
80 10.6 8.7 13.1



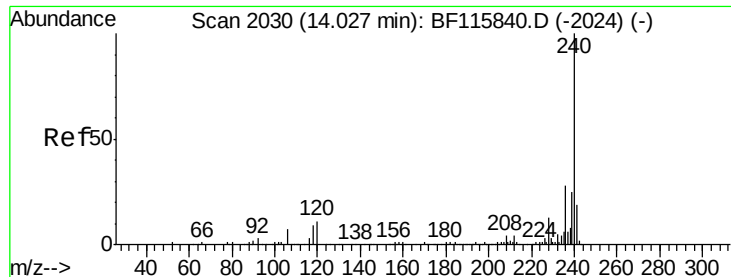
Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



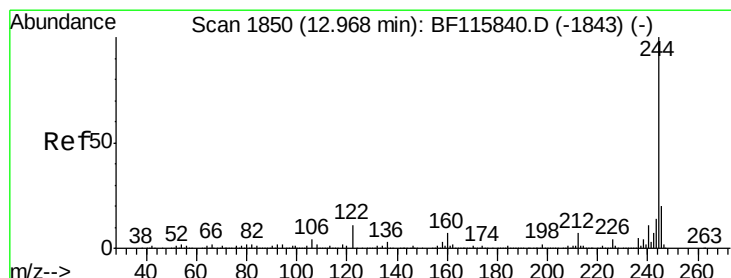
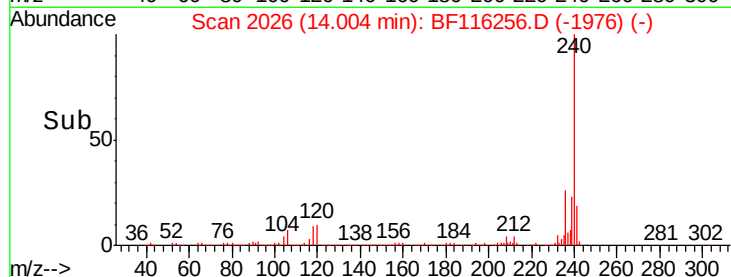
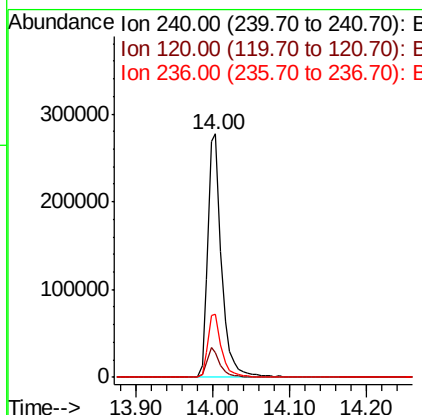
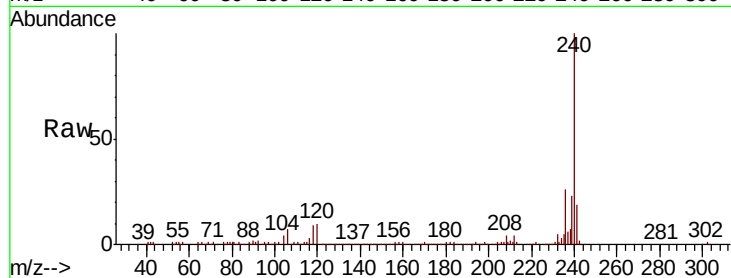




#76  
 Chrysene-d12  
 Concen: 20.000 ng  
 RT: 14.00 min Scan# 2026  
 Delta R.T. -0.01 min  
 Lab File: BF116256.D  
 Acq: 14 Aug 2019 3:04

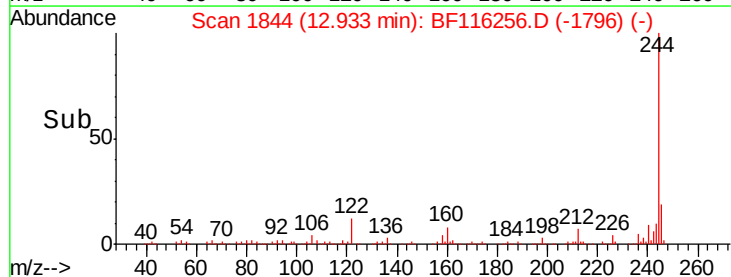
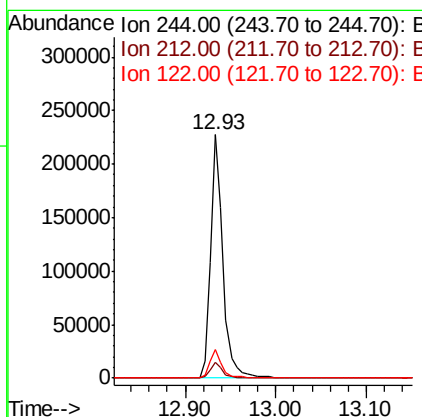
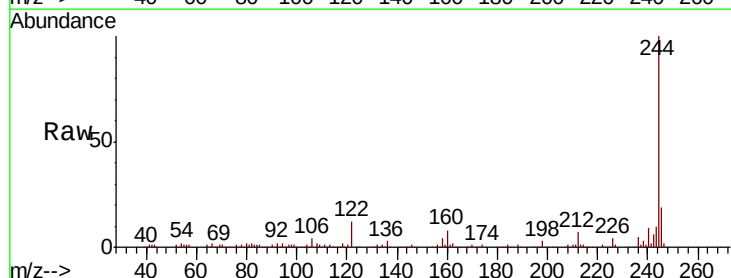
Instrument :  
 BNA\_F  
 ClientSampleId :

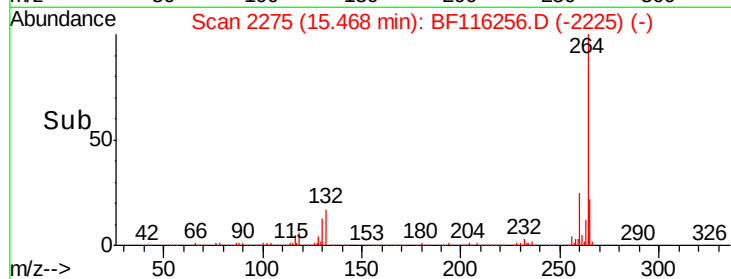
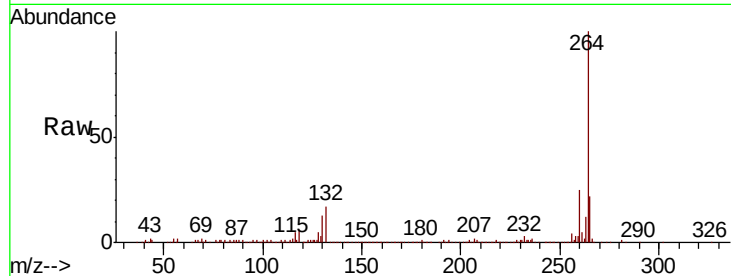
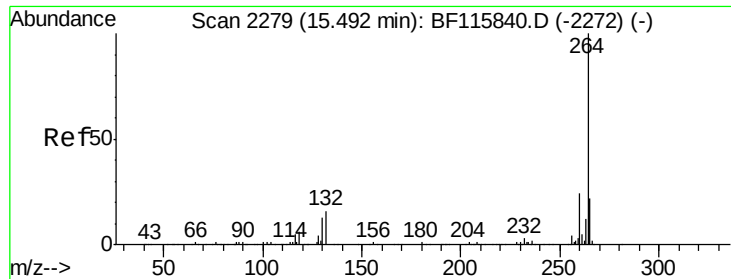
Tot Ion:240 Resp: 340986  
 Ion Ratio Lower Upper  
 240 100  
 120 10.3 10.7 16.1#  
 236 26.1 22.2 33.2



#79  
 Terphenyl-d14  
 Concen: 13.404 ng  
 RT: 12.93 min Scan# 1844  
 Delta R.T. -0.02 min  
 Lab File: BF116256.D  
 Acq: 14 Aug 2019 3:04

Tgt Ion:244 Resp: 216900  
 Ion Ratio Lower Upper  
 244 100  
 212 6.7 5.8 8.8  
 122 11.7 9.0 13.4





#87  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.47 min Scan# 2275  
 Delta R.T. -0.01 min  
 Lab File: BF116256.D  
 Acq: 14 Aug 2019 3:04

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.6  | 19.7  | 29.5  |
| 265     | 21.8  | 17.4  | 26.0  |

