

Data File : BF116729.D  
Acq On : 1 Sep 2019 6:49  
Operator : HP/JU  
Sample : K4526-25  
Misc :  
ALS Vial : 41 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
T9-12-13-F1-F4-(0-1.9)

Quant Time: Sep 02 05:46:16 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF083019.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Aug 30 20:02:30 2019  
Response via : Initial Calibration

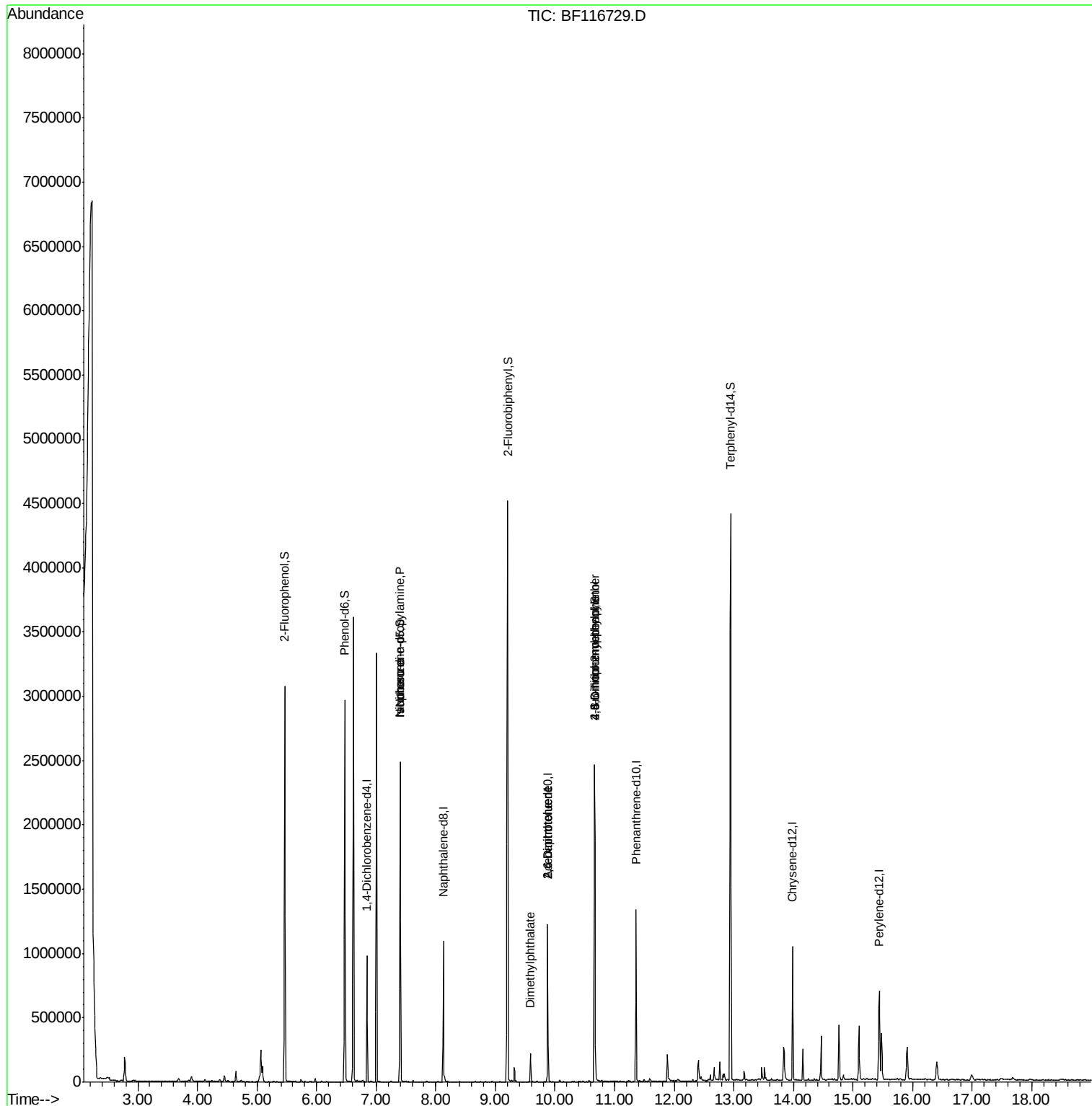
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.85  | 152  | 125185   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.13  | 136  | 491168   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.87  | 164  | 256773   | 20.00  | ng    | -0.01    |
| 64) Phenanthrene-d10           | 11.36 | 188  | 437705   | 20.00  | ng    | -0.01    |
| 76) Chrysene-d12               | 13.99 | 240  | 303299   | 20.00  | ng    | -0.01    |
| 87) Perylene-d12               | 15.44 | 264  | 305665   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.47  | 112  | 888516   | 114.99 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.47  | 99   | 1071925  | 105.64 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.40  | 82   | 835553   | 97.11  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 10.67 | 330  | 273007   | 159.04 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.20  | 172  | 1419548  | 93.26  | ng    | 0.00     |
| 79) Terphenyl-d14              | 12.95 | 244  | 1450096  | 88.45  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.40  | 70   | 110278   | 16.506 | ng    | # 74     |
| 25) Isophorone                 | 7.40  | 82   | 835536   | 47.925 | ng    | # 66     |
| 50) Dimethylphthalate          | 9.59  | 163  | 82980    | 4.681  | ng    | 100      |
| 51) 2,6-Dinitrotoluene         | 9.87  | 165  | 32950    | 9.742  | ng    | # 21     |
| 57) 2,4-Dinitrotoluene         | 9.87  | 165  | 32950    | 7.967  | ng    | # 21     |
| 65) 4,6-Dinitro-2-methylphenol | 10.66 | 198  | 532      | 7.730  | ng    | # 1      |
| 67) 4-Bromophenyl-phenylether  | 10.66 | 248  | 17655    | 3.971  | ng    | # 1      |

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

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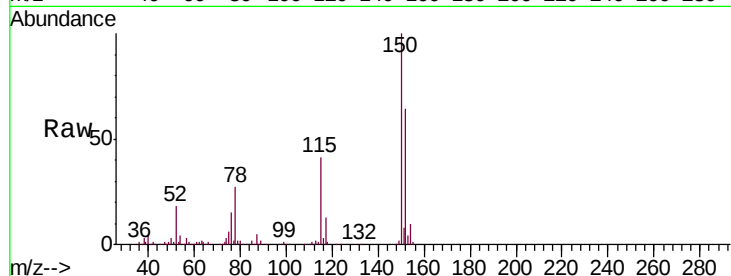


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.85 min Scan# 809  
Delta R.T. -0.01 min  
Lab File: BF116729.D  
Acq: 1 Sep 2019 6:49

Instrument :  
BNA\_F  
ClientSampleId :  
T9-12-13-F1-F4-(0-1.9)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.2 | 124.4 | 186.6 |
| 115     | 63.5  | 49.9  | 74.9  |

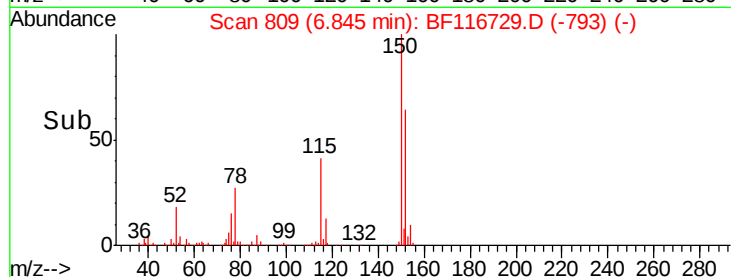
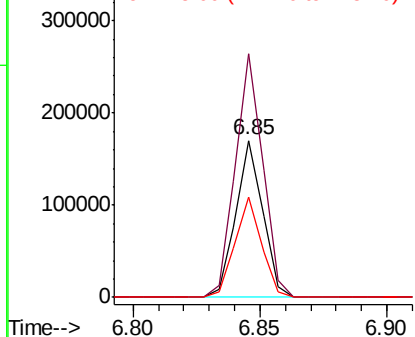


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

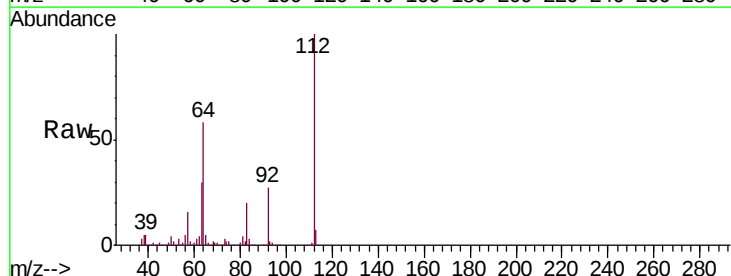
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 114.986 ng  
RT: 5.47 min Scan# 575  
Delta R.T. 0.01 min  
Lab File: BF116729.D  
Acq: 1 Sep 2019 6:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 58.0  | 47.1  | 70.7  |
| 63      | 29.6  | 24.9  | 37.3  |

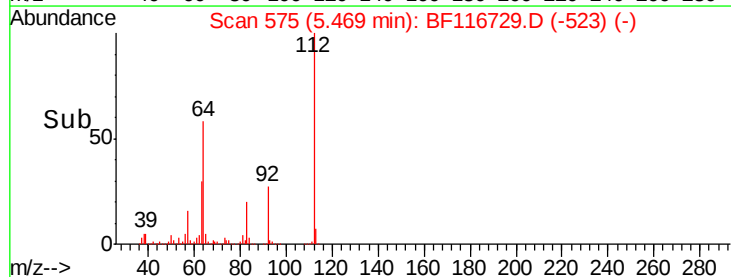
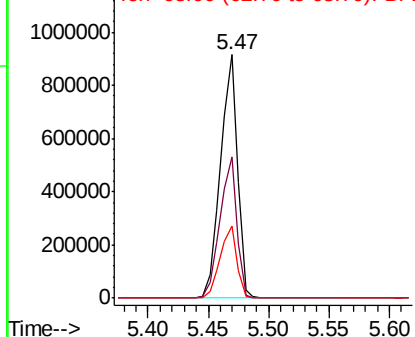


Abundance

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: 105.643 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.01 min

Lab File: BF116729.D

Acq: 1 Sep 2019 6:49

Instrument :

BNA\_F

ClientSampleId :

T9-12-13-F1-F4-(0-1.9)

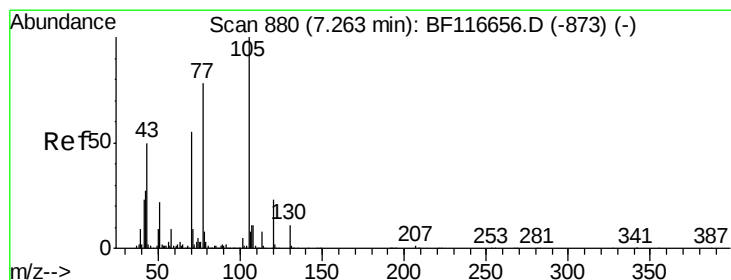
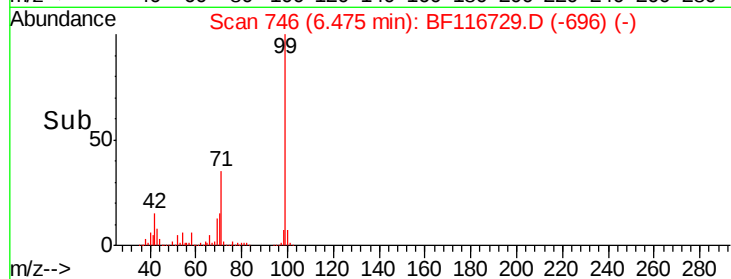
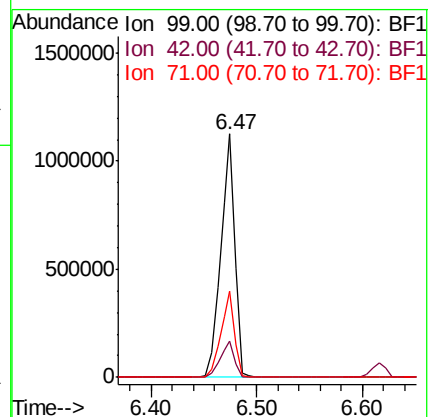
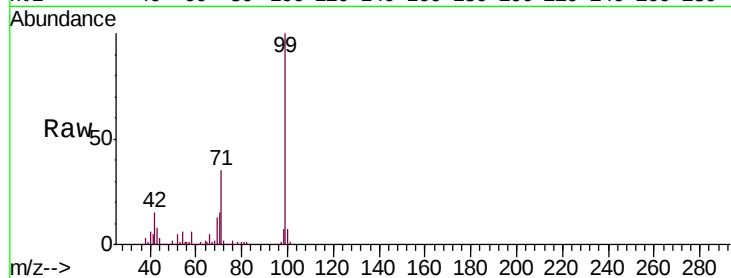
Tgt Ion: 99 Resp: 1071925

Ion Ratio Lower Upper

99 100

42 14.9 13.7 20.5

71 35.2 30.8 46.2



#19

n-Nitroso-di-n-propylamine

Concen: 16.506 ng

RT: 7.40 min Scan# 904

Delta R.T. 0.14 min

Lab File: BF116729.D

Acq: 1 Sep 2019 6:49

Tgt Ion: 70 Resp: 110278

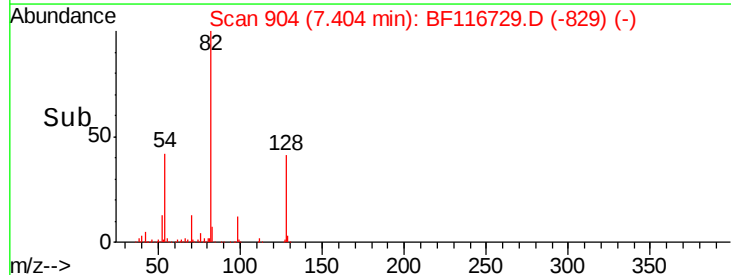
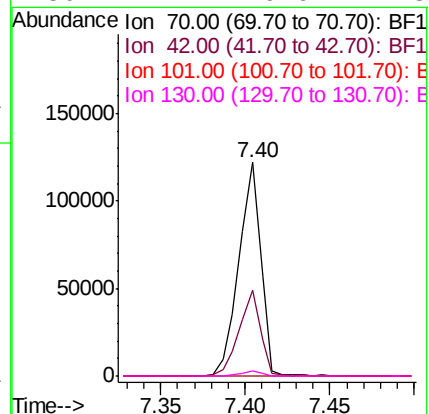
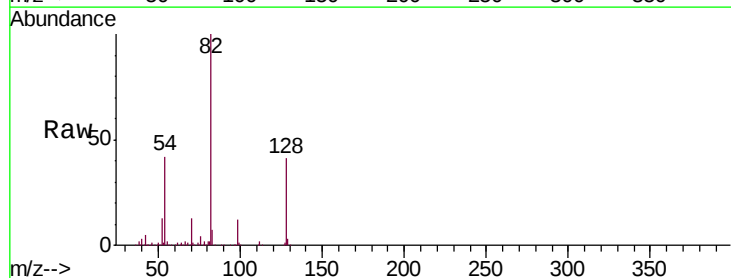
Ion Ratio Lower Upper

70 100

42 40.0 43.5 65.3#

101 0.0 7.8 11.6#

130 2.2 16.6 24.8#

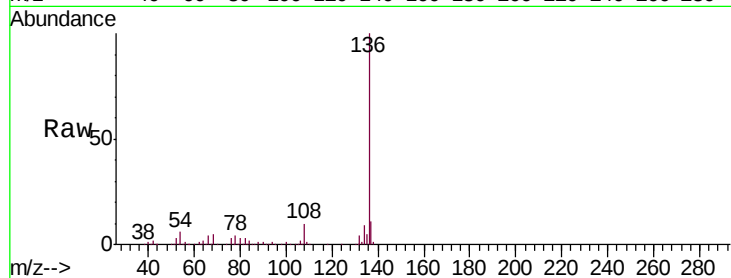




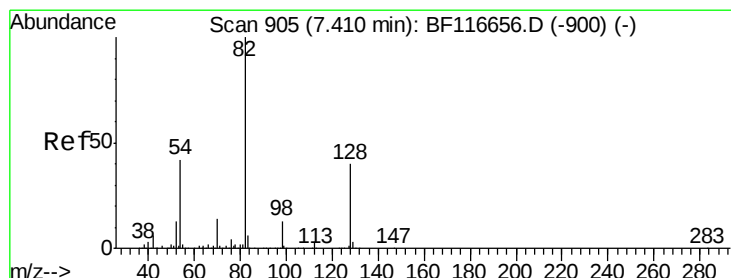
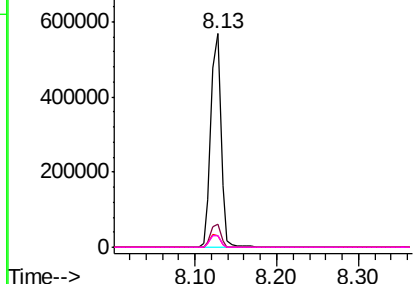
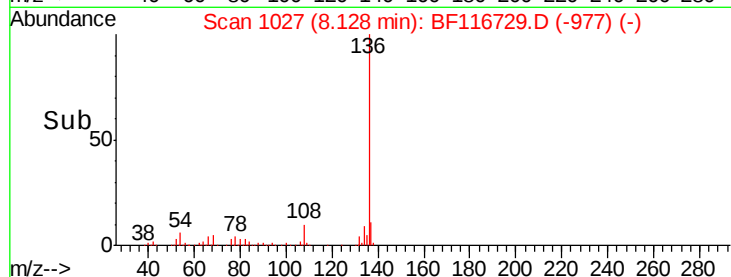
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.13 min Scan# 1027  
Delta R.T. -0.01 min  
Lab File: BF116729.D  
Acq: 1 Sep 2019 6:49

Instrument :  
BNA\_F  
ClientSampleId :  
T9-12-13-F1-F4-(0-1.9)

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 491168 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 11.1  | 8.9   | 13.3   |
| 54       | 5.6   | 4.8   | 7.2    |
| 68       | 5.2   | 4.0   | 6.0    |

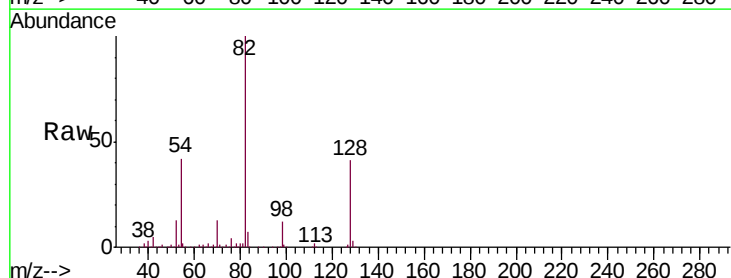


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

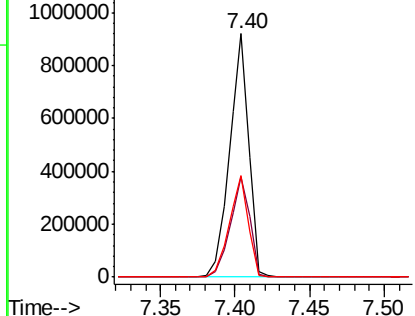
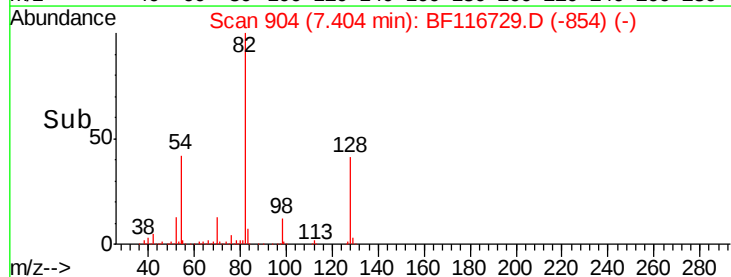


#23  
Nitrobenzene-d5  
Concen: 97.114 ng  
RT: 7.40 min Scan# 904  
Delta R.T. -0.01 min  
Lab File: BF116729.D  
Acq: 1 Sep 2019 6:49

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 835553 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 41.4  | 32.8  | 49.2   |
| 54       | 41.5  | 36.9  | 55.3   |



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: 47.925 ng

RT: 7.40 min Scan# 904

Delta R.T. -0.26 min

Lab File: BF116729.D

Acq: 1 Sep 2019 6:49

Instrument :

BNA\_F

ClientSampleId :

T9-12-13-F1-F4-(0-1.9)

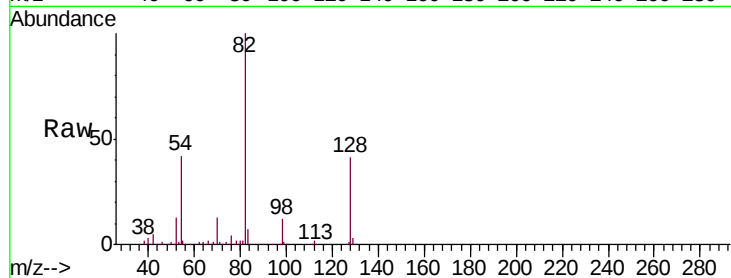
Tgt Ion: 82 Resp: 835536

Ion Ratio Lower Upper

82 100

95 0.0 5.8 8.6#

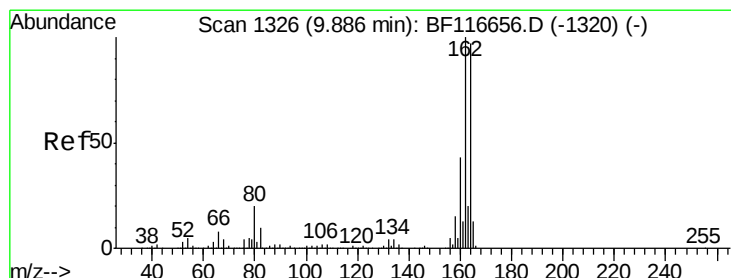
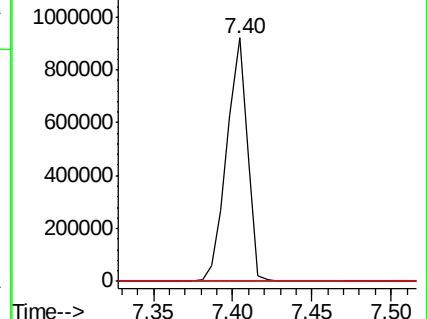
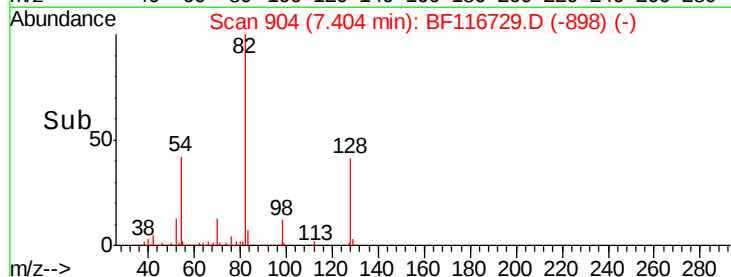
138 0.0 13.5 20.3#



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: BF116729.D

Acq: 1 Sep 2019 6:49

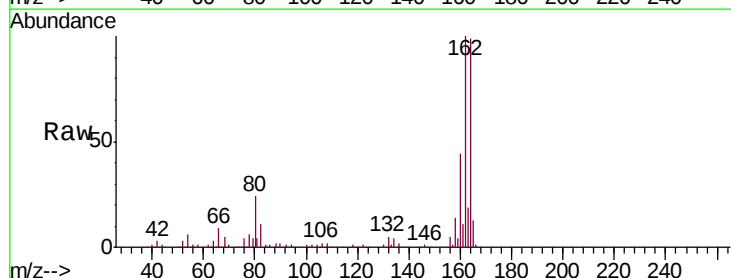
Tgt Ion: 164 Resp: 256773

Ion Ratio Lower Upper

164 100

162 101.2 81.4 122.0

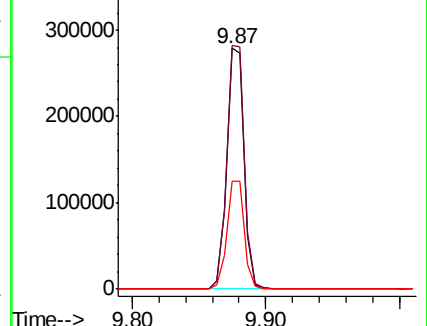
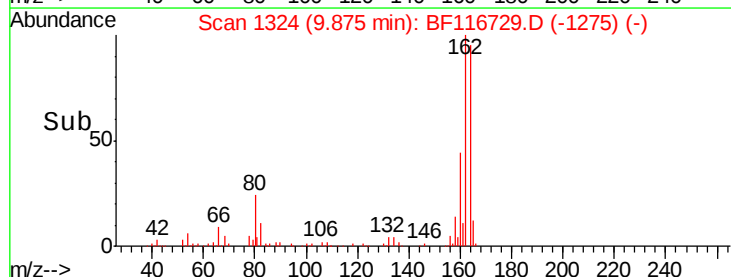
160 44.6 35.4 53.2

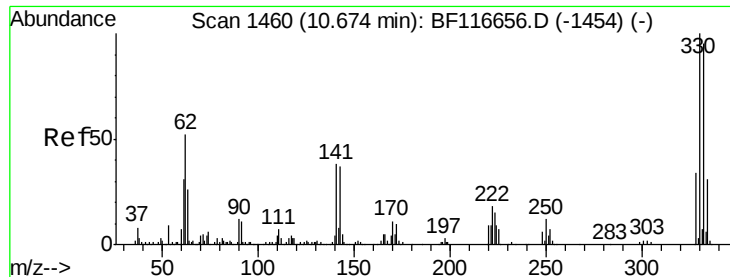


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

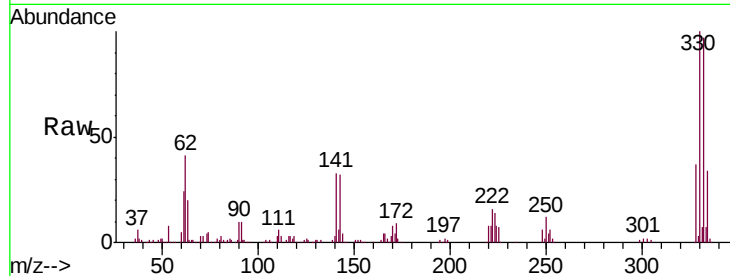




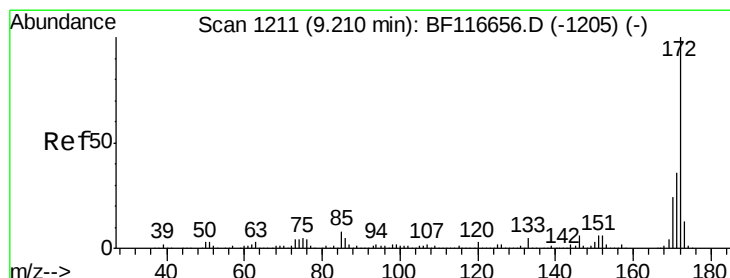
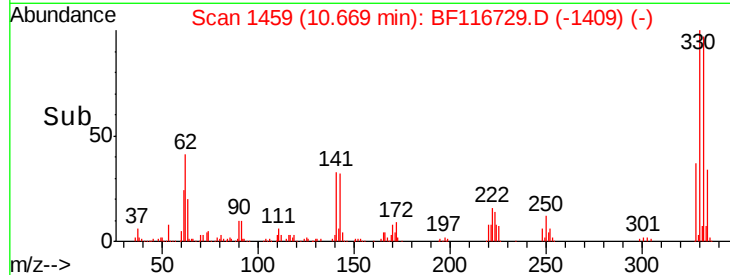
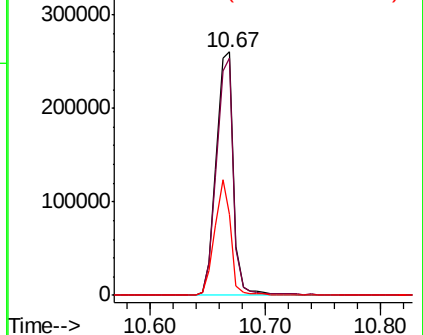
#42  
 2,4,6-Tribromophenol  
 Concen: 159.041 ng  
 RT: 10.67 min Scan# 1459  
 Delta R.T. -0.01 min  
 Lab File: BF116729.D  
 Acq: 1 Sep 2019 6:49

Instrument :  
 BNA\_F  
 ClientSampleId :  
 T9-12-13-F1-F4-(0-1.9)

Tgt Ion: 330 Resp: 273007  
 Ion Ratio Lower Upper  
 330 100  
 332 96.3 76.9 115.3  
 141 43.7 31.4 47.2

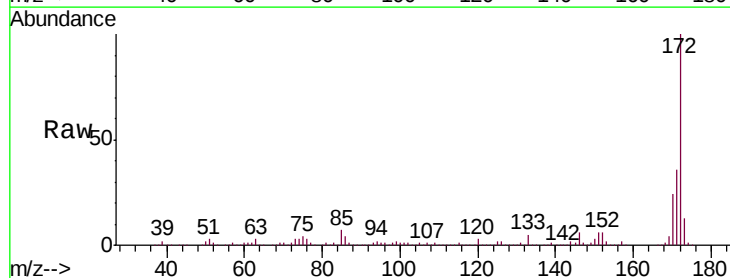


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

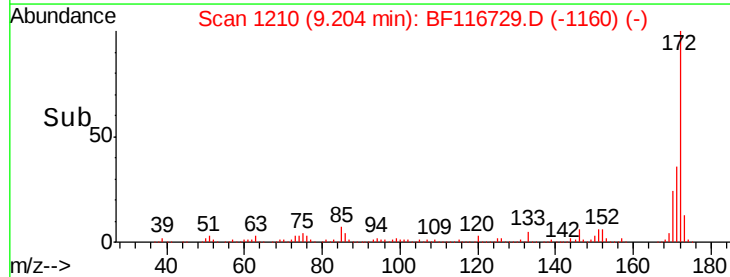
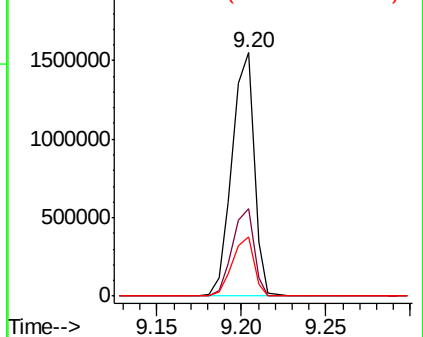


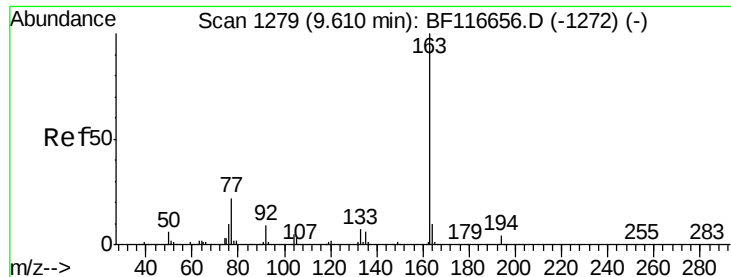
#45  
 2-Fluorobiphenyl  
 Concen: 93.259 ng  
 RT: 9.20 min Scan# 1210  
 Delta R.T. -0.00 min  
 Lab File: BF116729.D  
 Acq: 1 Sep 2019 6:49

Tgt Ion: 172 Resp: 1419548  
 Ion Ratio Lower Upper  
 172 100  
 171 36.1 27.8 41.6  
 170 24.3 18.9 28.3



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

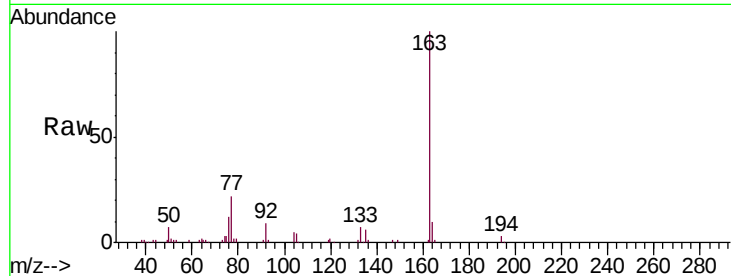




#50  
Dimethylphthalate  
Concen: 4.681 ng  
RT: 9.59 min Scan# 1275  
Delta R.T. -0.02 min  
Lab File: BF116729.D  
Acq: 1 Sep 2019 6:49

Instrument :  
BNA\_F  
ClientSampleId :  
T9-12-13-F1-F4-(0-1.9)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.5   | 2.8   | 4.2   |
| 164     | 10.5  | 8.6   | 12.8  |

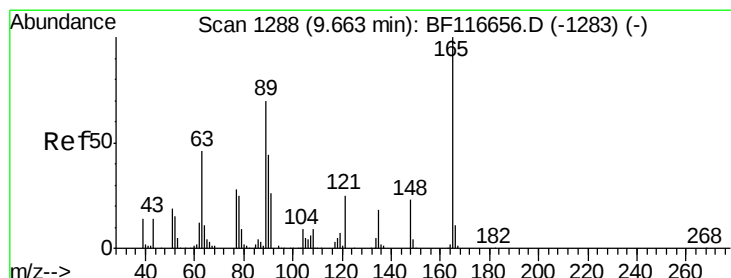
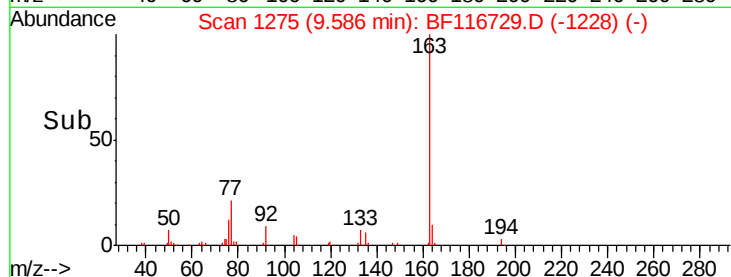
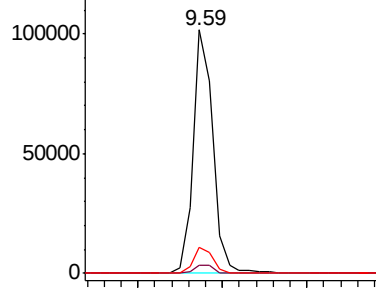


Abundance

Ion 163.00 (162.70 to 163.70): E

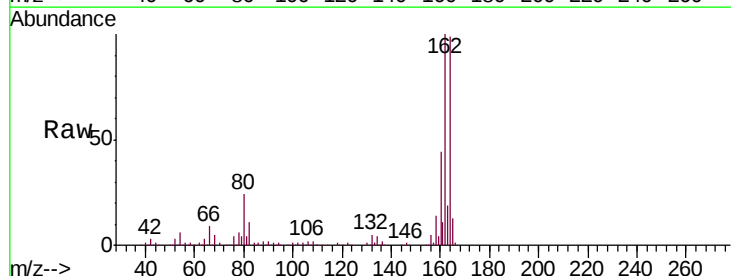
Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#51  
2,6-Dinitrotoluene  
Concen: 9.742 ng  
RT: 9.87 min Scan# 1324  
Delta R.T. 0.21 min  
Lab File: BF116729.D  
Acq: 1 Sep 2019 6:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.4   | 47.3  | 70.9# |
| 89      | 1.7   | 52.5  | 78.7# |

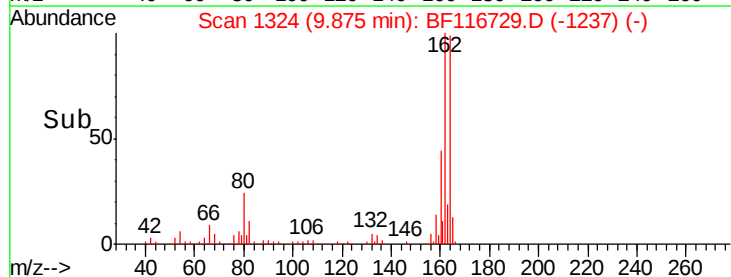
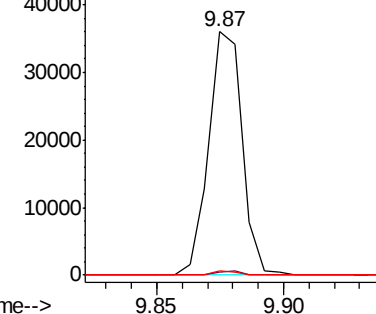


Abundance

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: 7.967 ng

RT: 9.87 min Scan# 1324

Delta R.T. -0.19 min

Lab File: BF116729.D

Acq: 1 Sep 2019 6:49

Instrument :

BNA\_F

ClientSampleId :

T9-12-13-F1-F4-(0-1.9)

Tgt Ion:165 Resp: 32950

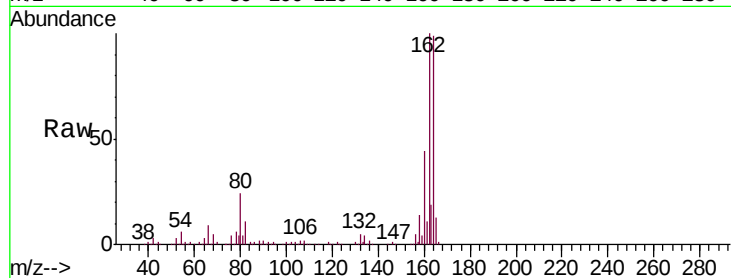
Ion Ratio Lower Upper

165 100

63 1.4 36.4 54.6#

89 1.7 62.6 94.0#

182 0.0 2.1 3.1#

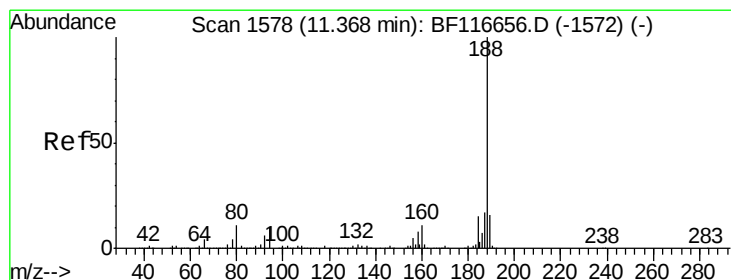
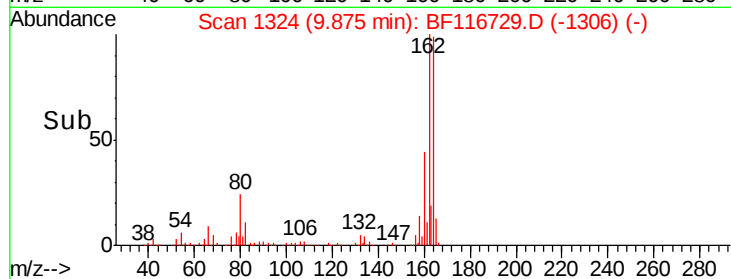
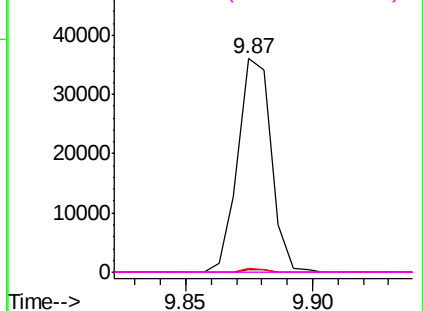


Abundance Ion 165.00 (164.70 to 165.70): E

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: BF116729.D

Acq: 1 Sep 2019 6:49

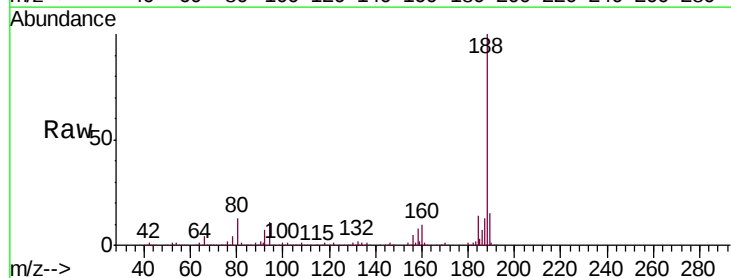
Tgt Ion:188 Resp: 437705

Ion Ratio Lower Upper

188 100

94 11.1 7.3 10.9#

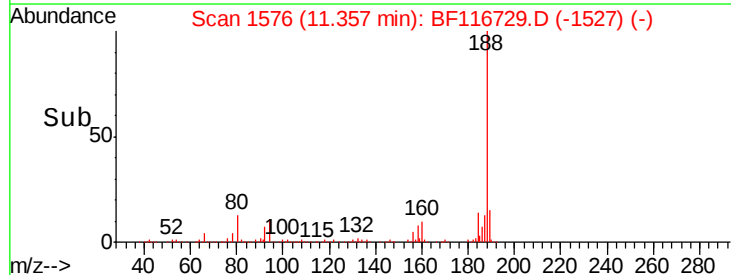
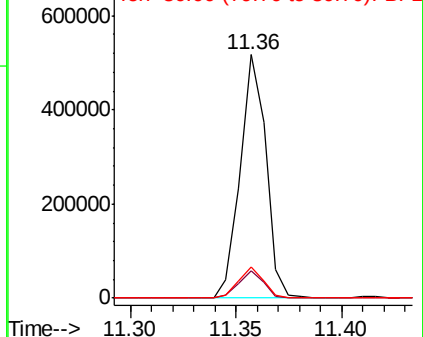
80 12.7 8.4 12.6#

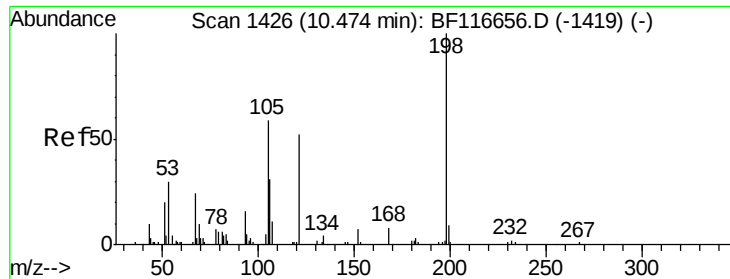


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

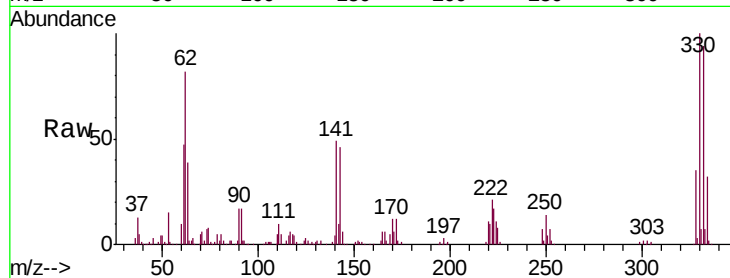




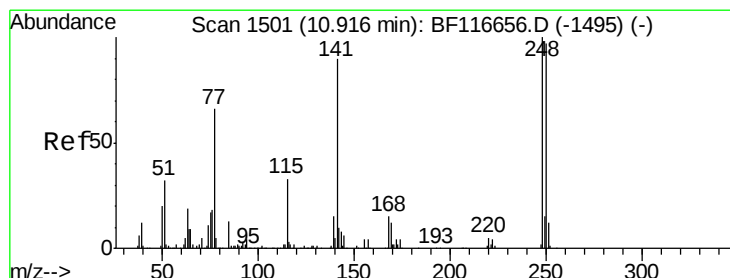
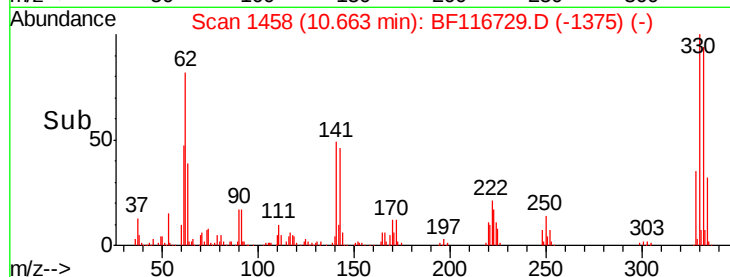
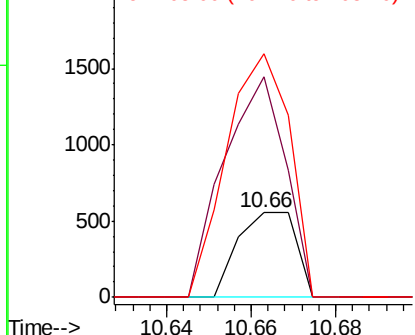
#65  
 4,6-Dinitro-2-methylphenol  
 Concen: 7.730 ng  
 RT: 10.66 min Scan# 1458  
 Delta R.T. 0.19 min  
 Lab File: BF116729.D  
 Acq: 1 Sep 2019 6:49

Instrument :  
 BNA\_F  
 ClientSampleId :  
 T9-12-13-F1-F4-(0-1.9)

Tgt Ion:198 Resp: 532  
 Ion Ratio Lower Upper  
 198 100  
 51 259.5 18.4 58.4#  
 105 287.1 22.9 62.9#

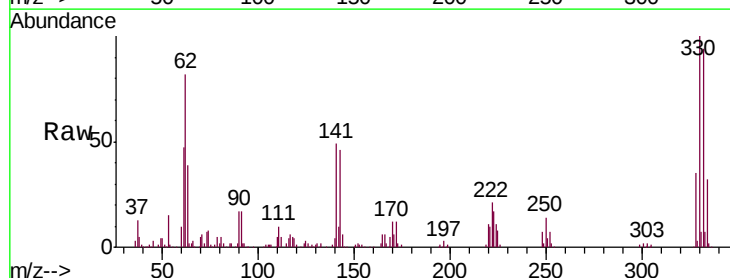


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BF1  
 Ion 105.00 (104.70 to 105.70): E

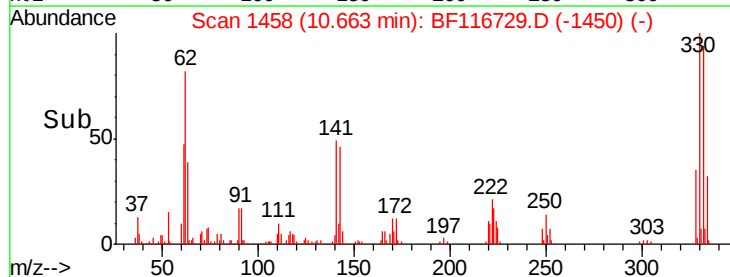
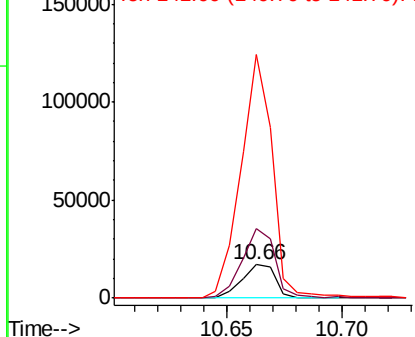


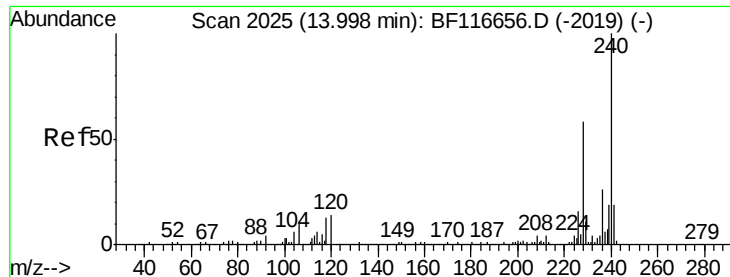
#67  
 4-Bromophenyl-phenylether  
 Concen: 3.971 ng  
 RT: 10.66 min Scan# 1458  
 Delta R.T. -0.25 min  
 Lab File: BF116729.D  
 Acq: 1 Sep 2019 6:49

Tgt Ion:248 Resp: 17655  
 Ion Ratio Lower Upper  
 248 100  
 250 209.4 77.8 116.8#  
 141 734.7 75.9 113.9#



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

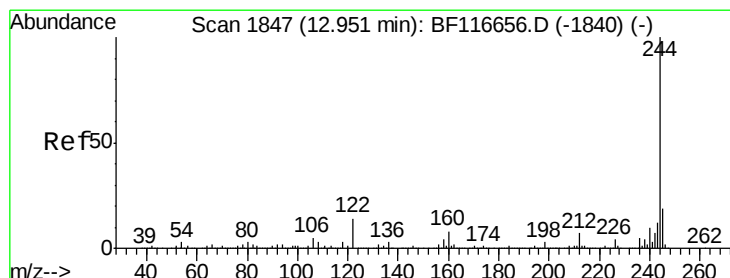
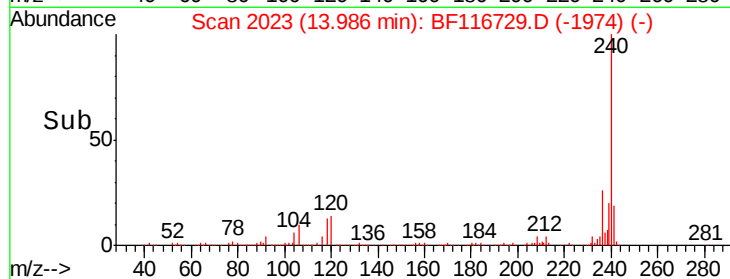
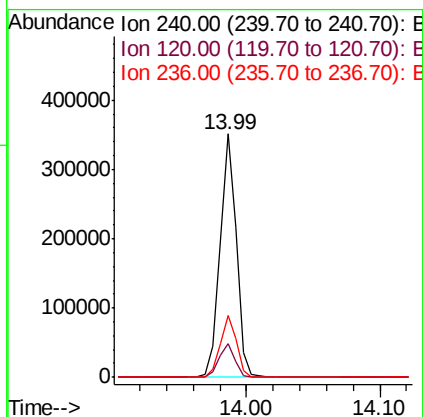
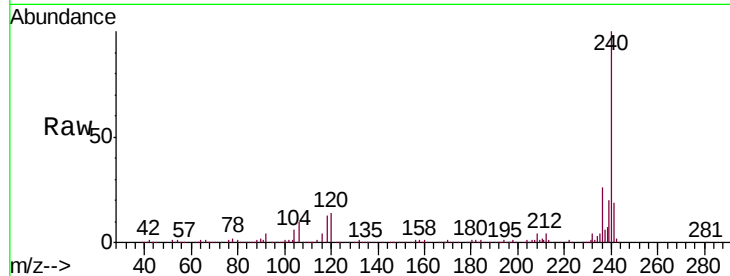




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.99 min Scan# 2023  
Delta R.T. -0.01 min  
Lab File: BF116729.D  
Acq: 1 Sep 2019 6:49

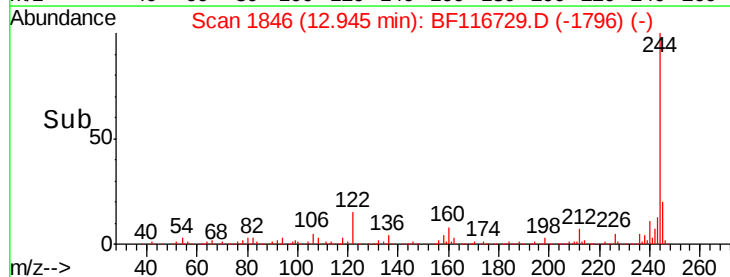
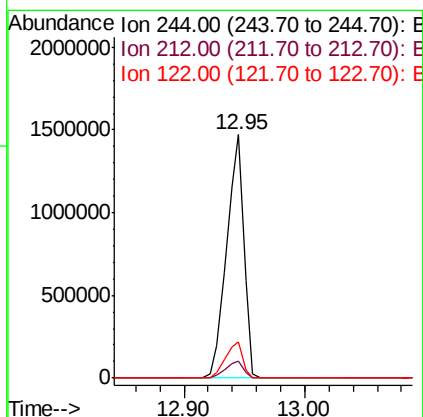
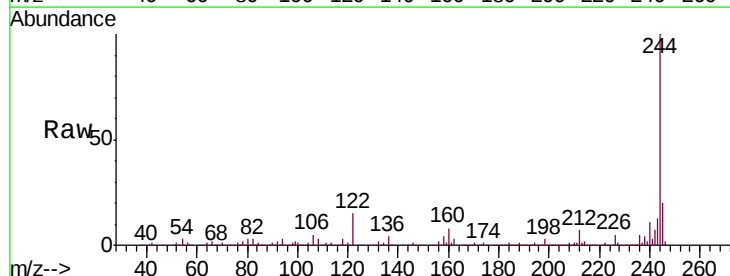
Instrument :  
BNA\_F  
ClientSampleId :  
T9-12-13-F1-F4-(0-1.9)

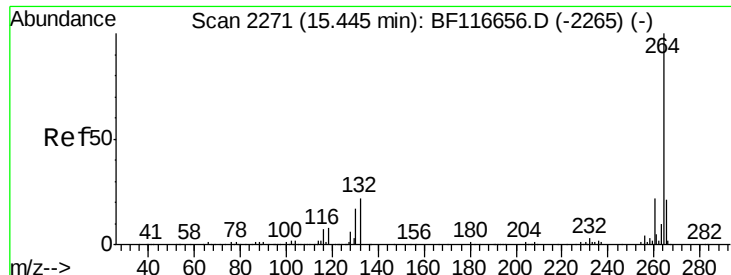
Tgt Ion:240 Resp: 303299  
Ion Ratio Lower Upper  
240 100  
120 14.1 9.1 13.7#  
236 25.6 21.1 31.7



#79  
Terphenyl-d14  
Concen: 88.447 ng  
RT: 12.95 min Scan# 1846  
Delta R.T. -0.01 min  
Lab File: BF116729.D  
Acq: 1 Sep 2019 6:49

Tgt Ion:244 Resp: 1450096  
Ion Ratio Lower Upper  
244 100  
212 7.3 6.1 9.1  
122 14.9 10.2 15.4

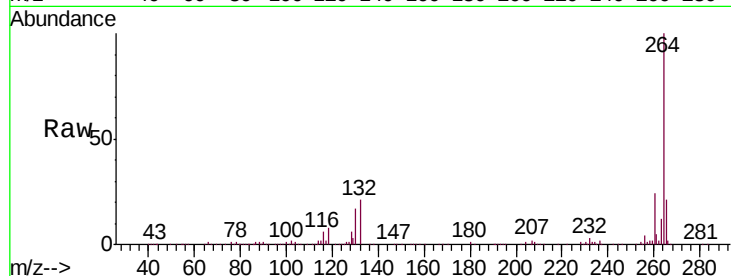




#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.44 min Scan# 2270  
Delta R.T. -0.01 min  
Lab File: BF116729.D  
Acq: 1 Sep 2019 6:49

Instrument :  
BNA\_F  
ClientSampleId :  
T9-12-13-F1-F4-(0-1.9)

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 264   | Resp: | 305665 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 23.7  | 18.3  | 27.5   |
| 265      | 21.4  | 16.5  | 24.7   |



Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

