

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF080819\  
 Data File : BF116072.D  
 Acq On : 8 Aug 2019 16:40  
 Operator : HP/JU  
 Sample : K4148-06  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Aug 09 09:12:00 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

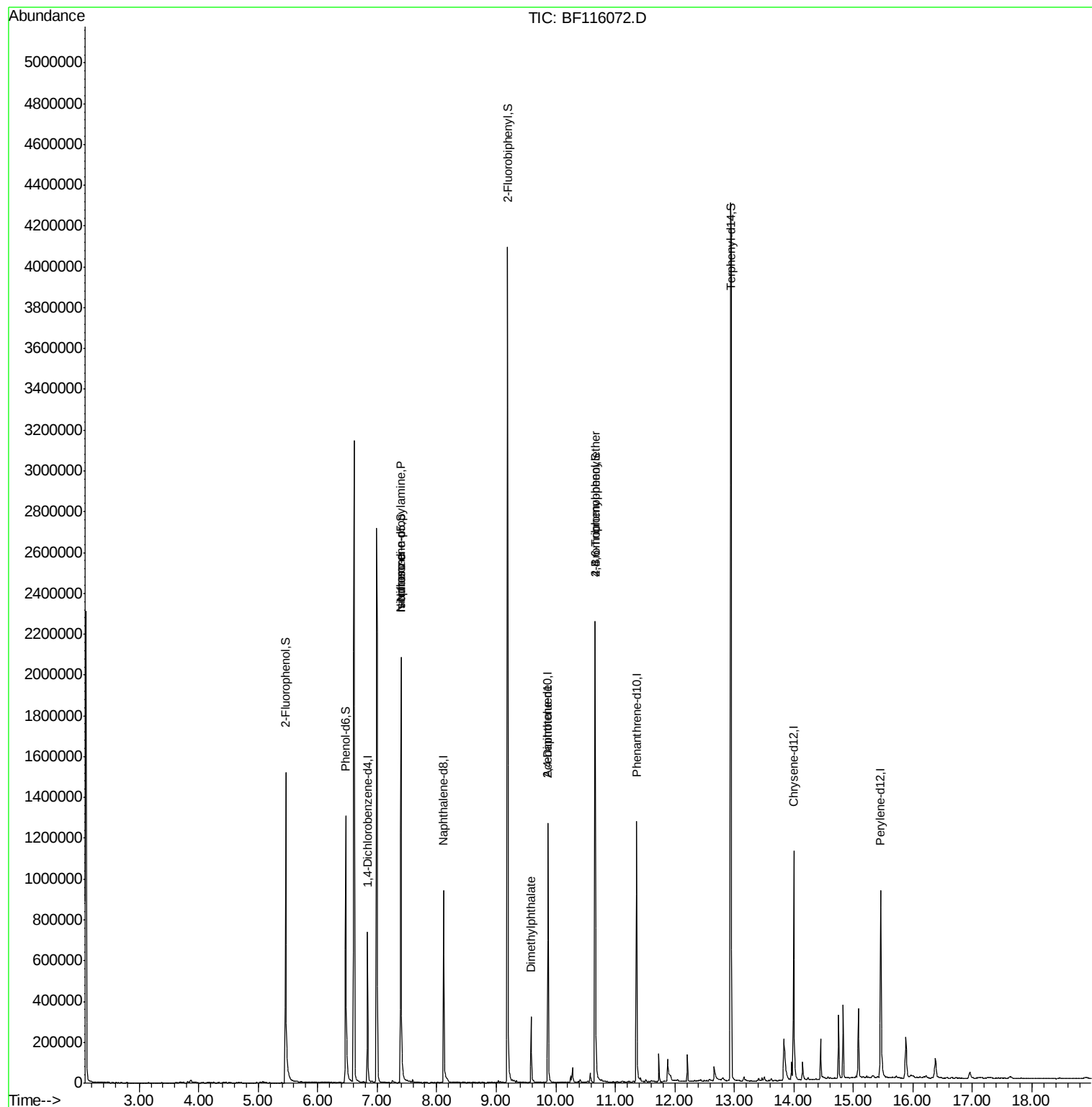
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.84  | 152  | 120357   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.12  | 136  | 471771   | 20.00  | ng    | -0.01    |
| 39) Acenaphthene-d10           | 9.87  | 164  | 257627   | 20.00  | ng    | -0.02    |
| 64) Phenanthrene-d10           | 11.36 | 188  | 489629   | 20.00  | ng    | -0.01    |
| 76) Chrysene-d12               | 14.00 | 240  | 402307   | 20.00  | ng    | -0.01    |
| 87) Perylene-d12               | 15.46 | 264  | 363008   | 20.00  | ng    | -0.02    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.46  | 112  | 530784   | 73.83  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.47  | 99   | 516882   | 56.98  | ng    | -0.02    |
| 23) Nitrobenzene-d5            | 7.40  | 82   | 784265   | 95.96  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol       | 10.66 | 330  | 334907   | 134.08 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl           | 9.19  | 172  | 1334686  | 97.04  | ng    | -0.01    |
| 79) Terphenyl-d14              | 12.95 | 244  | 1758236  | 92.09  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.40  | 70   | 102679   | 18.267 | ng    | # 80     |
| 25) Isophorone                 | 7.40  | 82   | 784261   | 50.183 | ng    | # 65     |
| 50) Dimethylphthalate          | 9.59  | 163  | 165540   | 9.437  | ng    | 98       |
| 57) 2,4-Dinitrotoluene         | 9.87  | 165  | 33209    | 6.543  | ng    | # 20     |
| 67) 4-Bromophenyl-phenylether  | 10.66 | 248  | 19491    | 3.719  | ng    | # 1      |

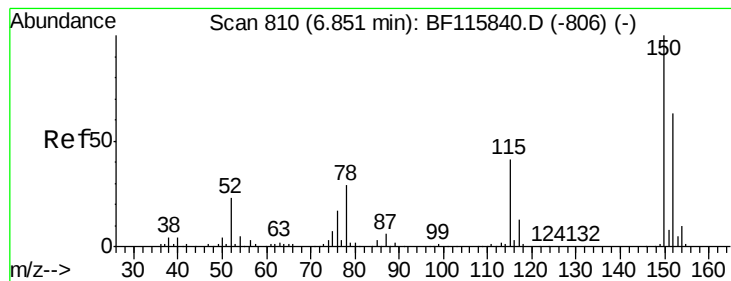
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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BNA\_F  
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF073019.M  
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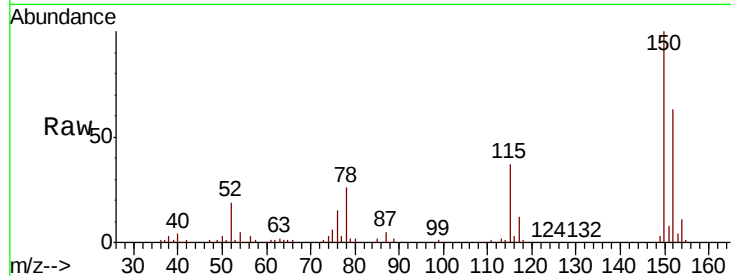


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.84 min Scan# 808  
Delta R.T. -0.01 min  
Lab File: BF116072.D  
Acq: 8 Aug 2019 16:40

Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.5 | 126.2 | 189.2 |
| 115     | 58.6  | 49.9  | 74.9  |

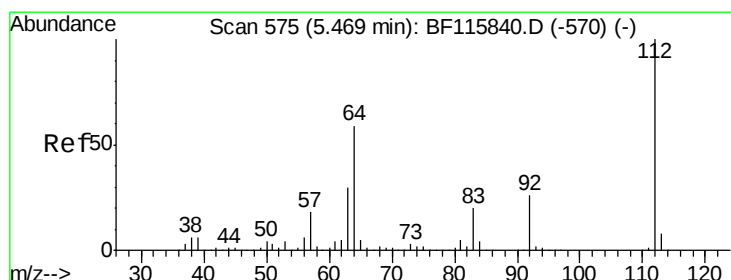
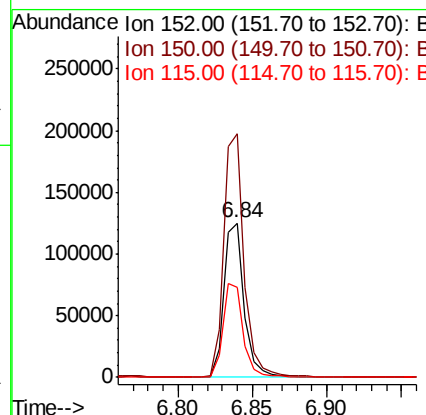
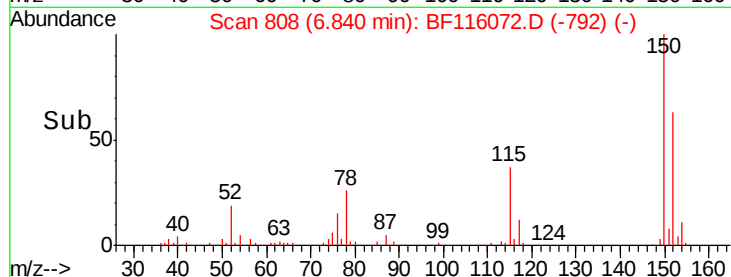


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

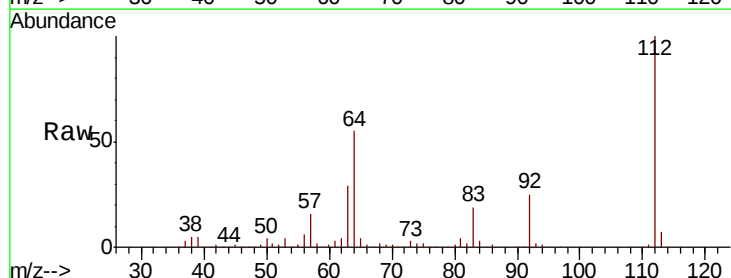
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 73.827 ng  
RT: 5.46 min Scan# 574  
Delta R.T. -0.01 min  
Lab File: BF116072.D  
Acq: 8 Aug 2019 16:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 54.9  | 45.4  | 68.2  |
| 63      | 28.7  | 23.7  | 35.5  |

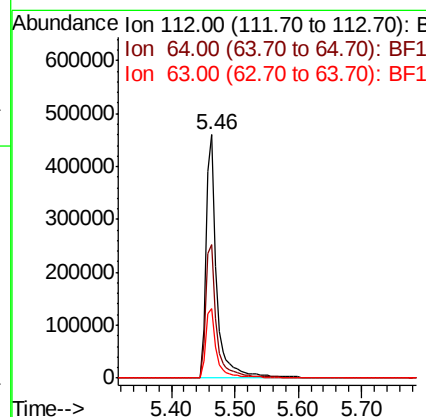
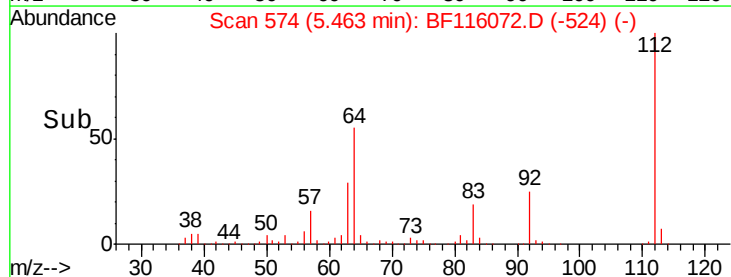


Abundance

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: 56.983 ng

RT: 6.47 min Scan# 745

Delta R.T. -0.02 min

Lab File: BF116072.D

Acq: 8 Aug 2019 16:40

Instrument :

BNA\_F

ClientSampleId :

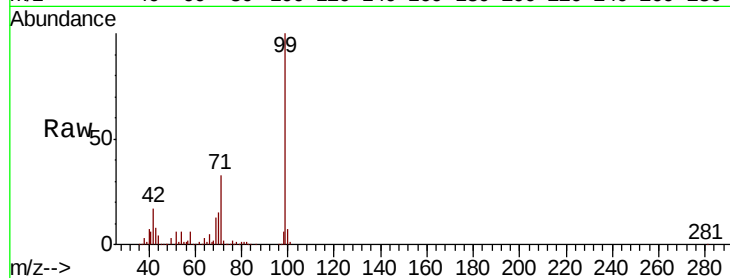
Tot Ion: 99 Resp: 516882

Ion Ratio Lower Upper

99 100

42 17.0 13.8 20.8

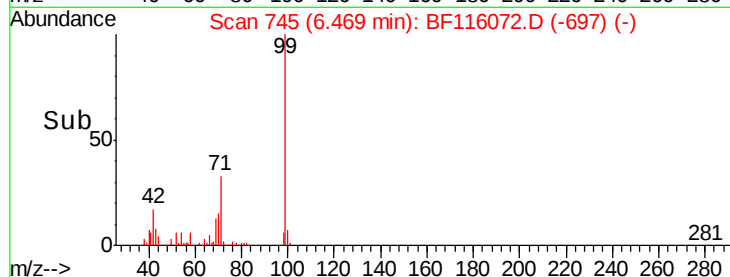
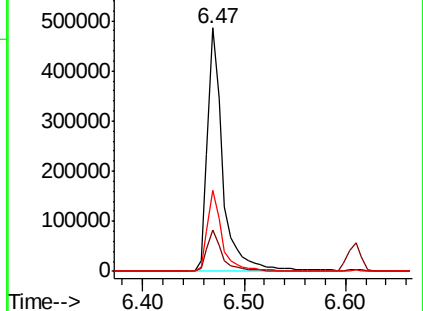
71 33.2 27.3 40.9



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: 18.267 ng

RT: 7.40 min Scan# 903

Delta R.T. 0.13 min

Lab File: BF116072.D

Acq: 8 Aug 2019 16:40

Tgt Ion: 70 Resp: 102679

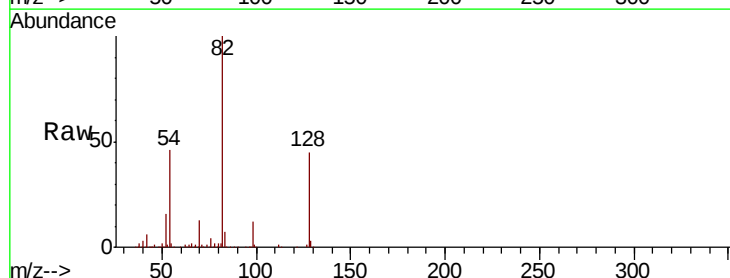
Ion Ratio Lower Upper

70 100

42 44.0 40.9 61.3

101 0.0 7.9 11.9#

130 2.3 16.9 25.3#

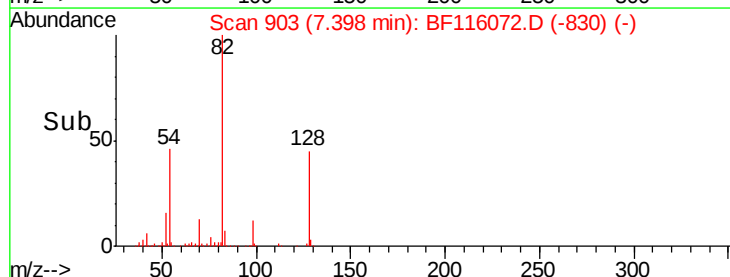
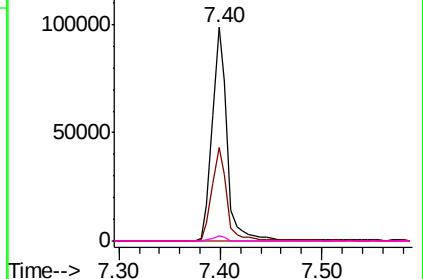


Abundance Ion 70.00 (69.70 to 70.70): BF1

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: BF116072.D

Acq: 8 Aug 2019 16:40

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 471771

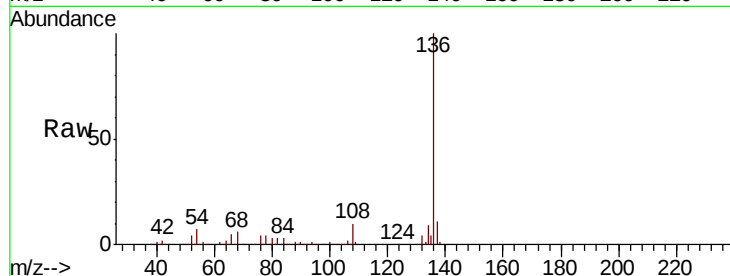
Ion Ratio Lower Upper

136 100

137 11.1 9.0 13.4

54 7.3 5.8 8.6

68 6.1 5.2 7.8

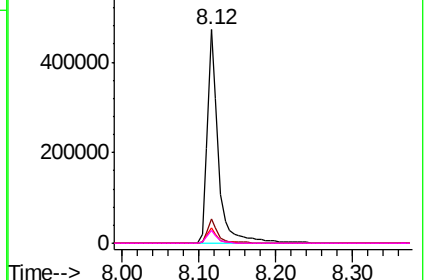
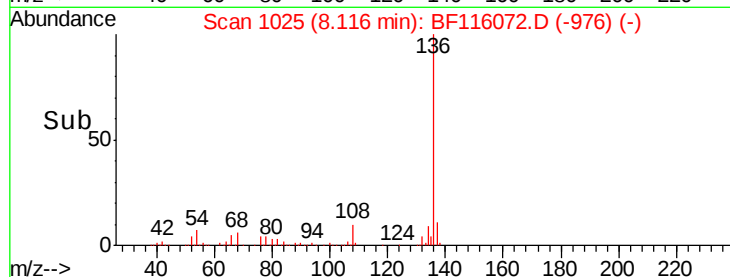


Abundance Ion 136.00 (135.70 to 136.70): E

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: 95.958 ng

RT: 7.40 min Scan# 903

Delta R.T. -0.02 min

Lab File: BF116072.D

Acq: 8 Aug 2019 16:40

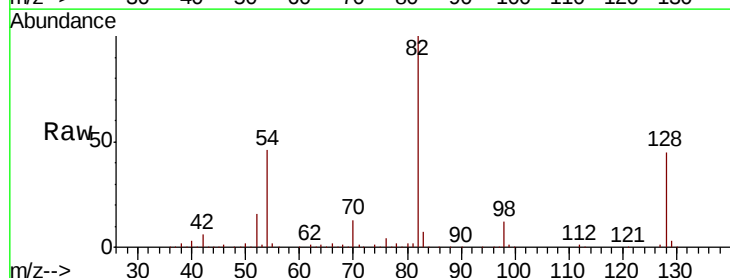
Tgt Ion: 82 Resp: 784265

Ion Ratio Lower Upper

82 100

128 44.8 36.5 54.7

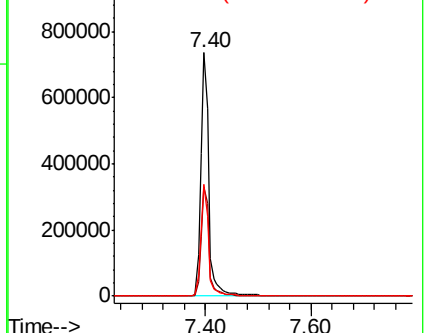
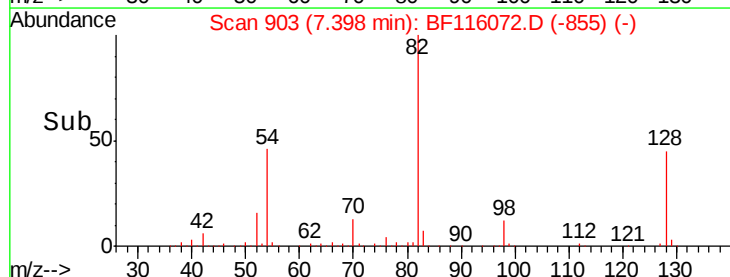
54 45.7 36.0 54.0



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: 50.183 ng

RT: 7.40 min Scan# 903

Delta R.T. -0.28 min

Lab File: BF116072.D

Acq: 8 Aug 2019 16:40

Instrument :

BNA\_F

ClientSampleId :

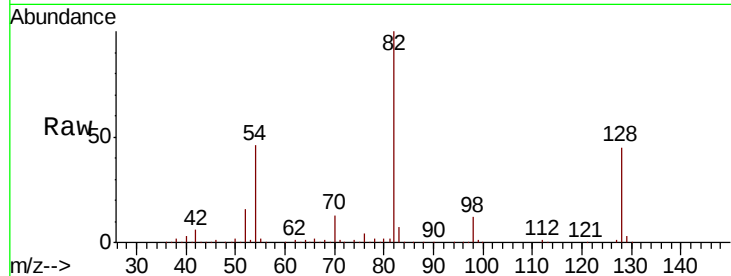
Tot Ion: 82 Resp: 784261

Ion Ratio Lower Upper

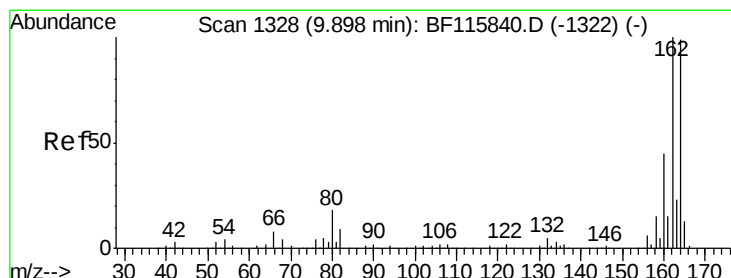
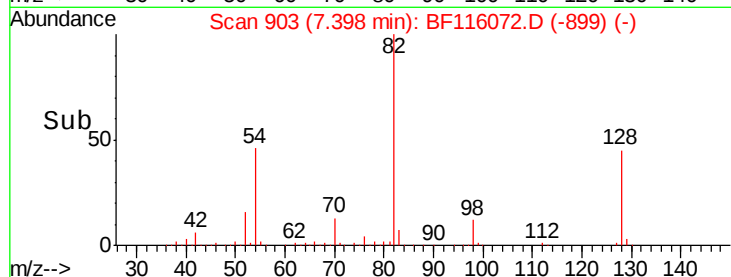
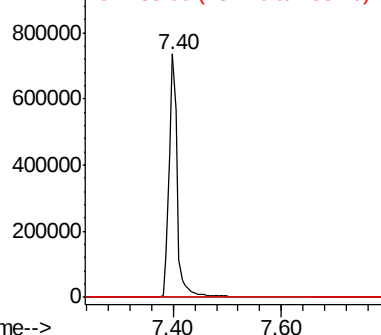
82 100

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): E



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.87 min Scan# 1323

Delta R.T. -0.02 min

Lab File: BF116072.D

Acq: 8 Aug 2019 16:40

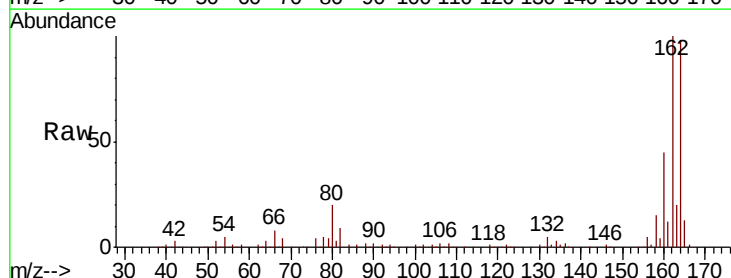
Tgt Ion: 164 Resp: 257627

Ion Ratio Lower Upper

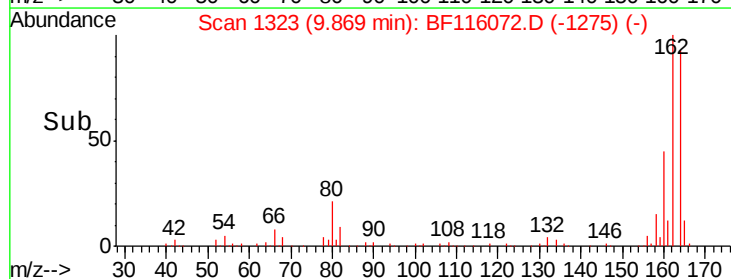
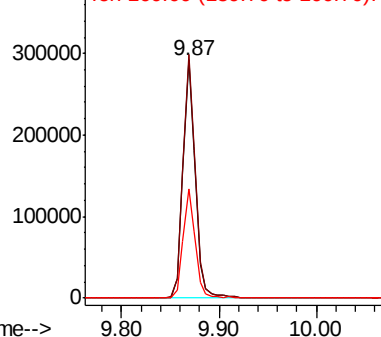
164 100

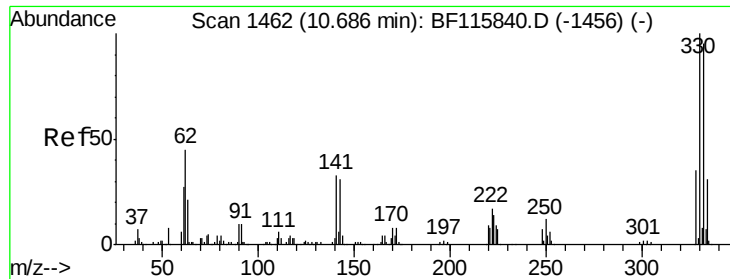
162 102.3 82.6 124.0

160 45.8 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: 134.083 ng

RT: 10.66 min Scan# 1458

Delta R.T. -0.01 min

Lab File: BF116072.D

Acq: 8 Aug 2019 16:40

Instrument :

BNA\_F

ClientSampleId :

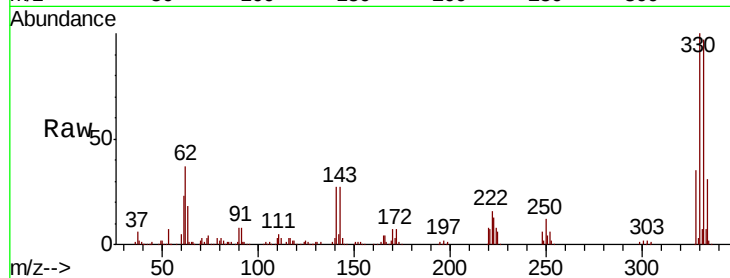
Tot Ion:330 Resp: 334907

Ion Ratio Lower Upper

330 100

332 95.6 76.8 115.2

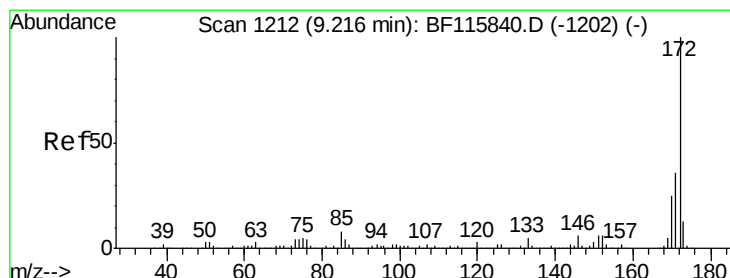
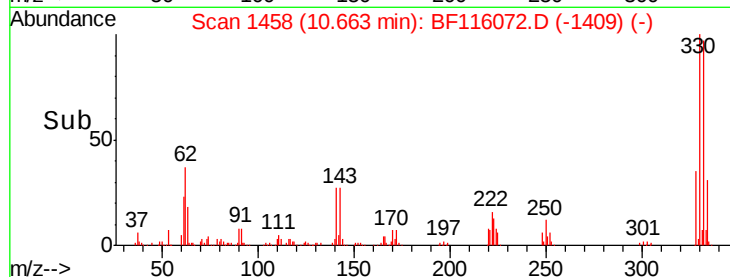
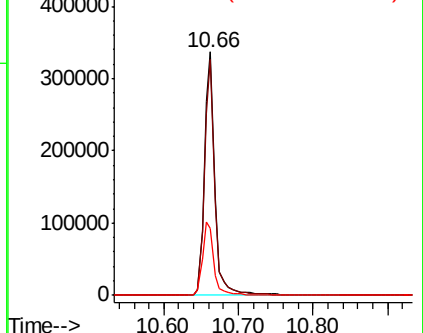
141 32.9 26.3 39.5



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: 97.038 ng

RT: 9.19 min Scan# 1208

Delta R.T. -0.01 min

Lab File: BF116072.D

Acq: 8 Aug 2019 16:40

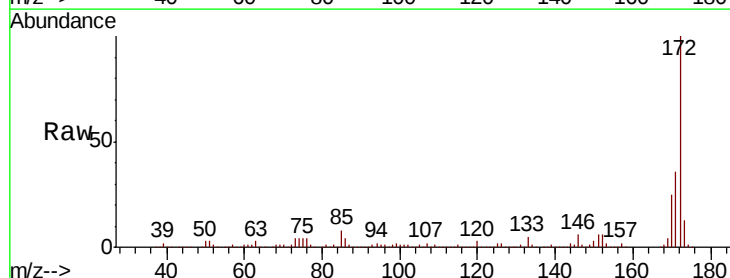
Tgt Ion:172 Resp: 1334686

Ion Ratio Lower Upper

172 100

171 36.5 29.6 44.4

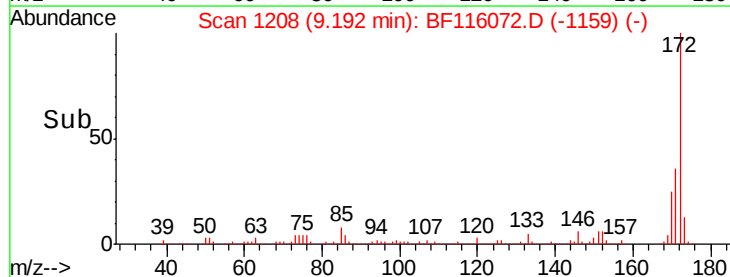
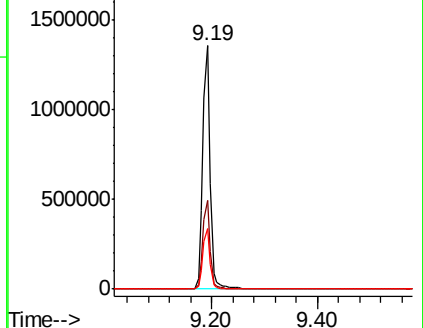
170 24.7 20.1 30.1

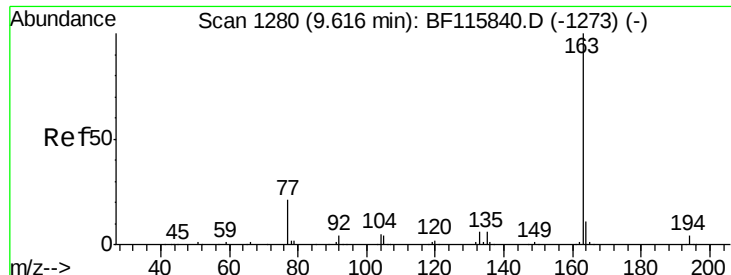


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

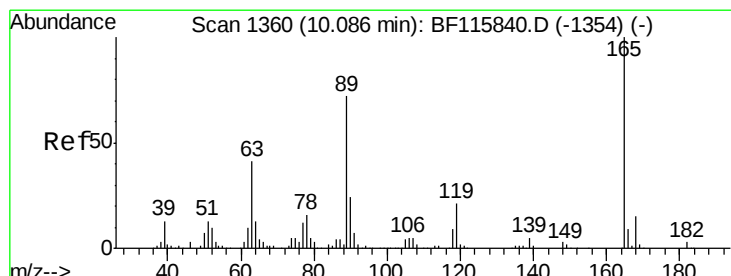
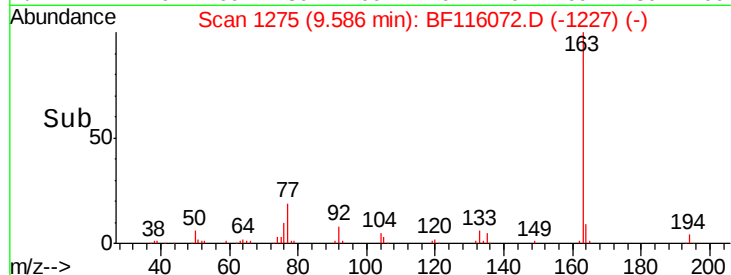
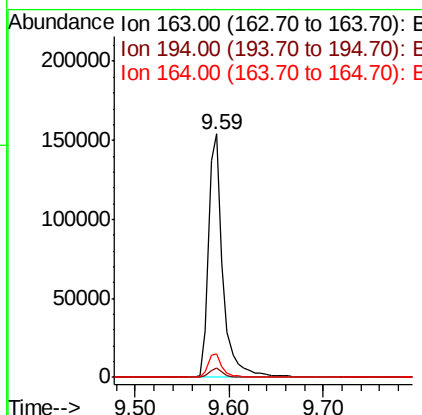
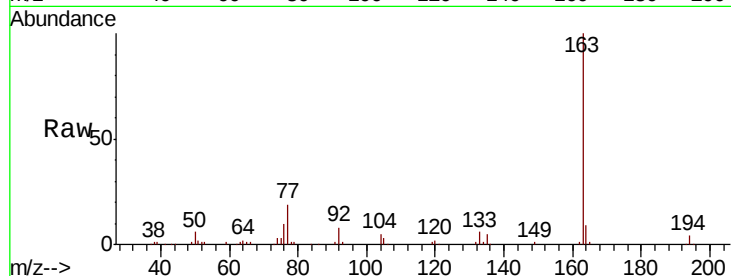




#50  
Dimethylphthalate  
Concen: 9.437 ng  
RT: 9.59 min Scan# 1275  
Delta R.T. -0.02 min  
Lab File: BF116072.D  
Acq: 8 Aug 2019 16:40

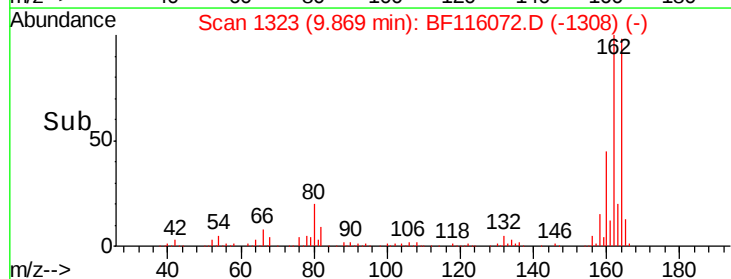
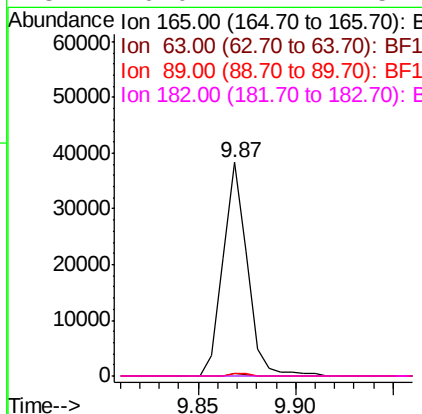
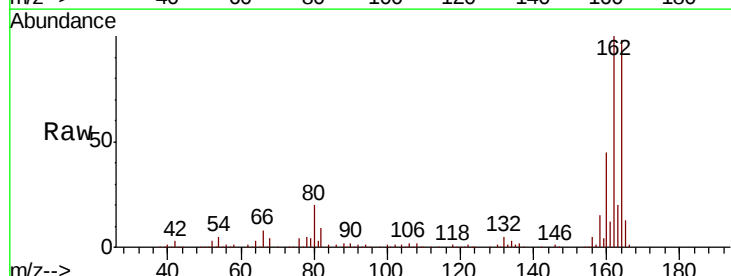
Instrument :  
BNA\_F  
ClientSampleId :

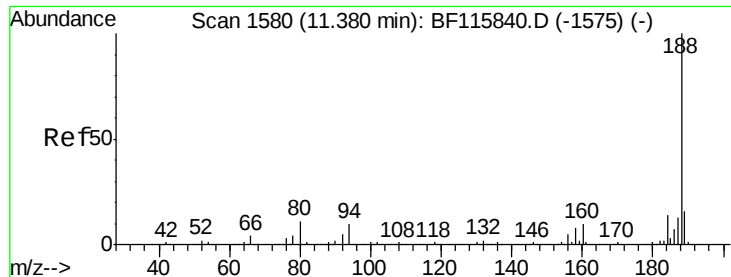
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 163   | Resp: | 165540 |
| Ion      | Ratio | Lower | Upper  |
| 163      | 100   |       |        |
| 194      | 3.7   | 3.0   | 4.6    |
| 164      | 9.4   | 8.4   | 12.6   |



#57  
2,4-Dinitrotoluene  
Concen: 6.543 ng  
RT: 9.87 min Scan# 1323  
Delta R.T. -0.21 min  
Lab File: BF116072.D  
Acq: 8 Aug 2019 16:40

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 165   | Resp: | 33209 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 1.1   | 39.6  | 59.4# |
| 89       | 1.4   | 62.2  | 93.2# |
| 182      | 0.0   | 2.1   | 3.1#  |





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.36 min Scan# 1576

Delta R.T. -0.01 min

Lab File: BF116072.D

Acq: 8 Aug 2019 16:40

Instrument :

BNA\_F

ClientSampleId :

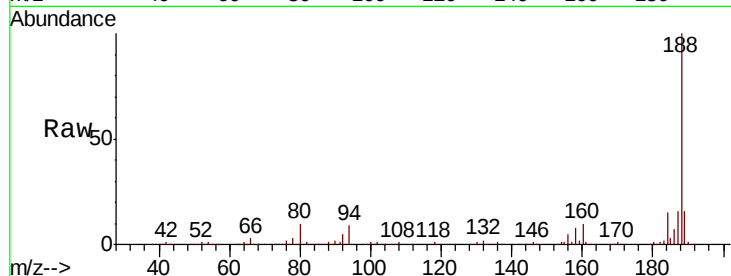
Tot Ion:188 Resp: 489629

Ion Ratio Lower Upper

188 100

94 9.3 8.1 12.1

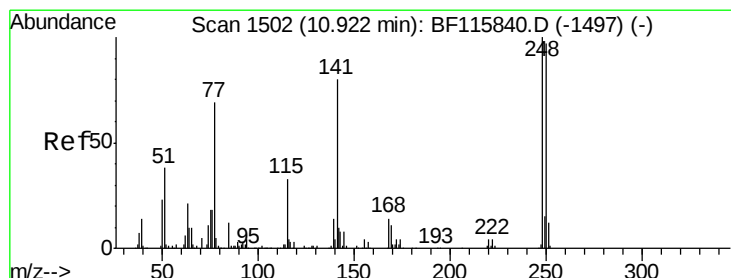
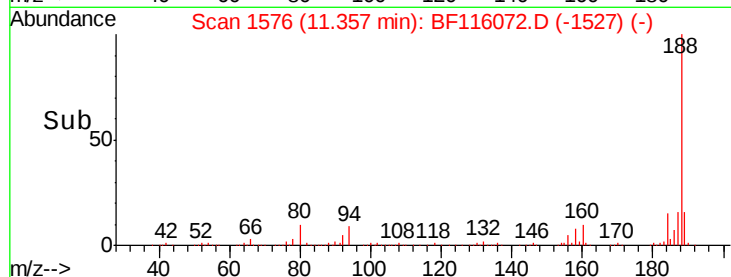
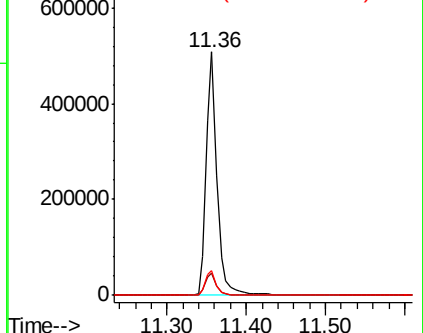
80 10.1 8.7 13.1



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: 3.719 ng

RT: 10.66 min Scan# 1458

Delta R.T. -0.25 min

Lab File: BF116072.D

Acq: 8 Aug 2019 16:40

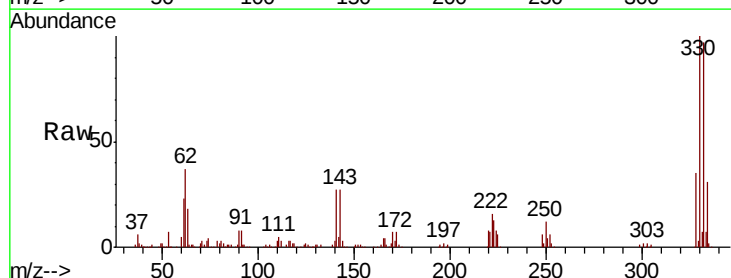
Tgt Ion:248 Resp: 19491

Ion Ratio Lower Upper

248 100

250 208.5 77.4 116.2#

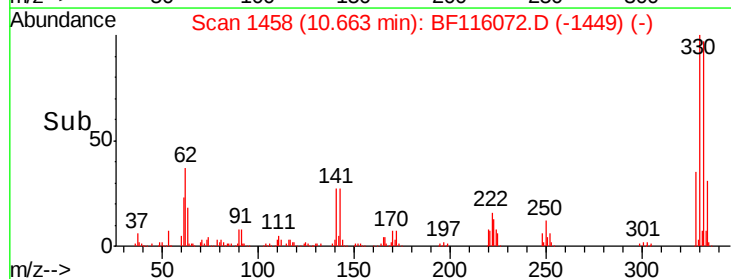
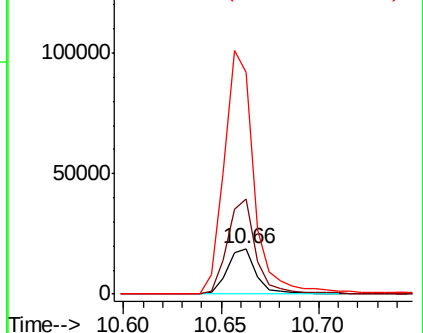
141 483.4 56.8 85.2#

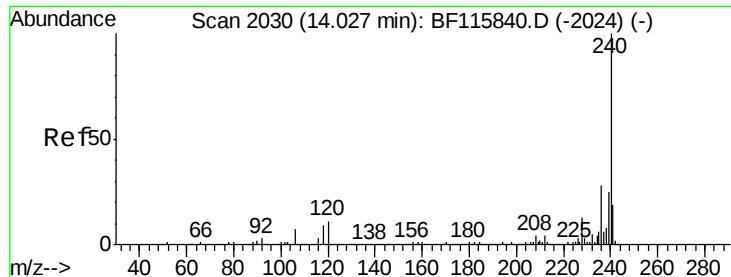


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

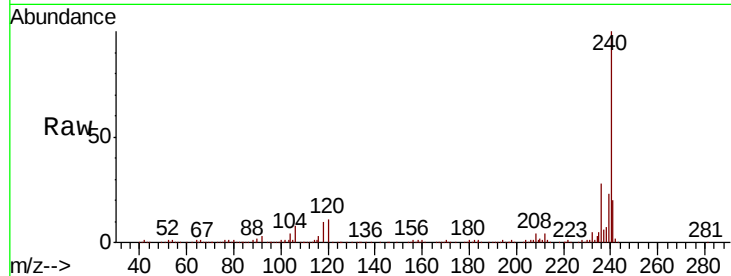




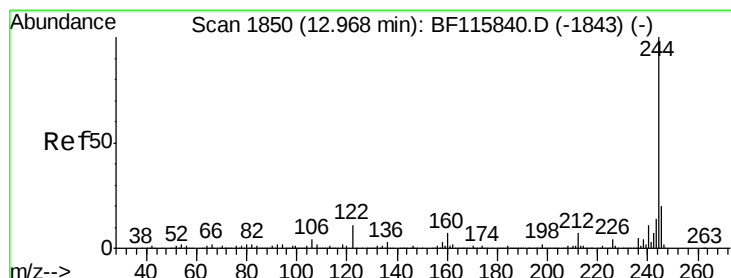
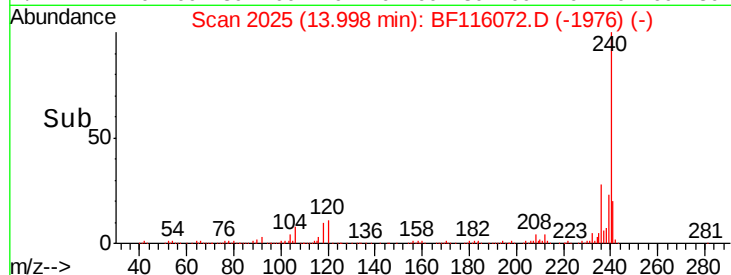
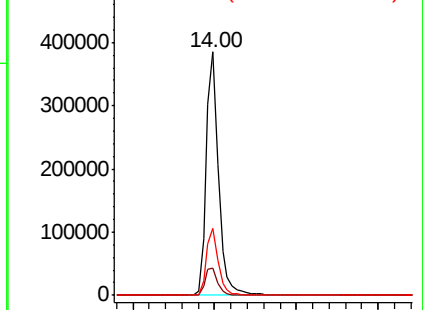
#76  
 Chrvsene-d12  
 Concen: 20.000 ng  
 RT: 14.00 min Scan# 2025  
 Delta R.T. -0.01 min  
 Lab File: BF116072.D  
 Acq: 8 Aug 2019 16:40

Instrument :  
 BNA\_F  
 ClientSampleId :

Tot Ion:240 Resp: 402307  
 Ion Ratio Lower Upper  
 240 100  
 120 11.2 10.7 16.1  
 236 27.6 22.2 33.2

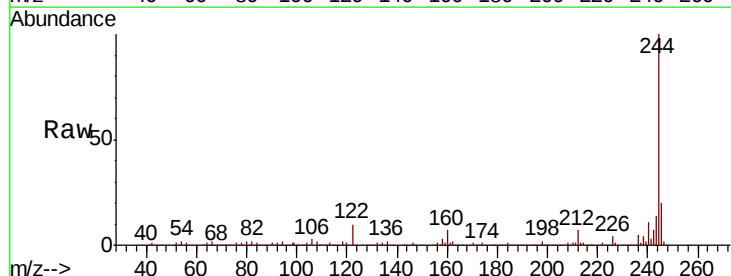


Abundance Ion 240.00 (239.70 to 240.70): E  
 Ion 120.00 (119.70 to 120.70): E  
 Ion 236.00 (235.70 to 236.70): E

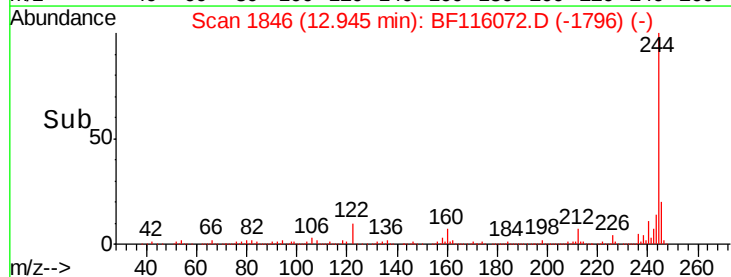
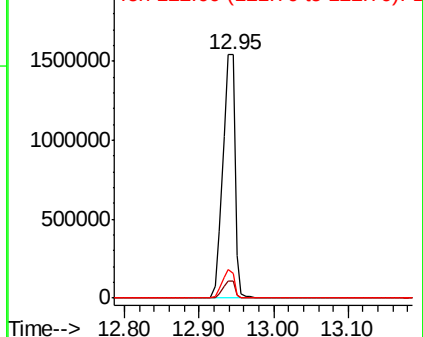


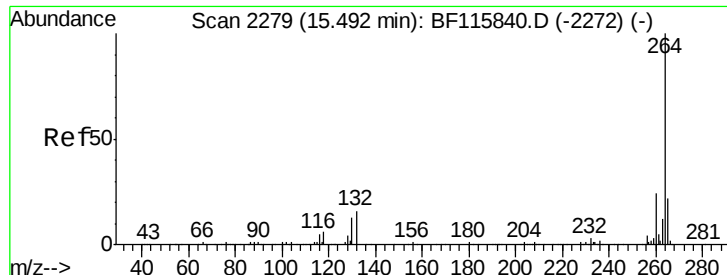
#79  
 Terphenyl-d14  
 Concen: 92.091 ng  
 RT: 12.95 min Scan# 1846  
 Delta R.T. -0.01 min  
 Lab File: BF116072.D  
 Acq: 8 Aug 2019 16:40

Tgt Ion:244 Resp: 1758236  
 Ion Ratio Lower Upper  
 244 100  
 212 7.0 5.8 8.8  
 122 10.2 9.0 13.4



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

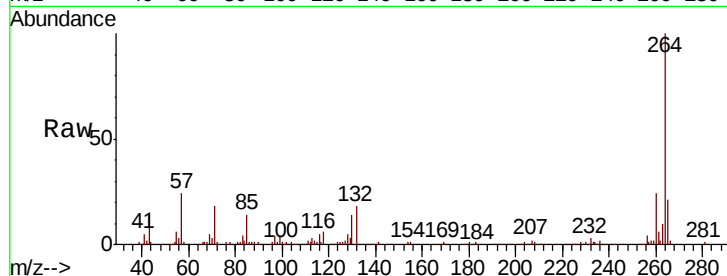




#87  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.46 min Scan# 2273  
 Delta R.T. -0.02 min  
 Lab File: BF116072.D  
 Acq: 8 Aug 2019 16:40

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.8  | 19.7  | 29.5  |
| 265     | 21.5  | 17.4  | 26.0  |



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

