

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081519\  
 Data File : BF116292.D  
 Acq On : 15 Aug 2019 21:38  
 Operator : HP/JU  
 Sample : K4356-09  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Aug 16 03:11:30 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

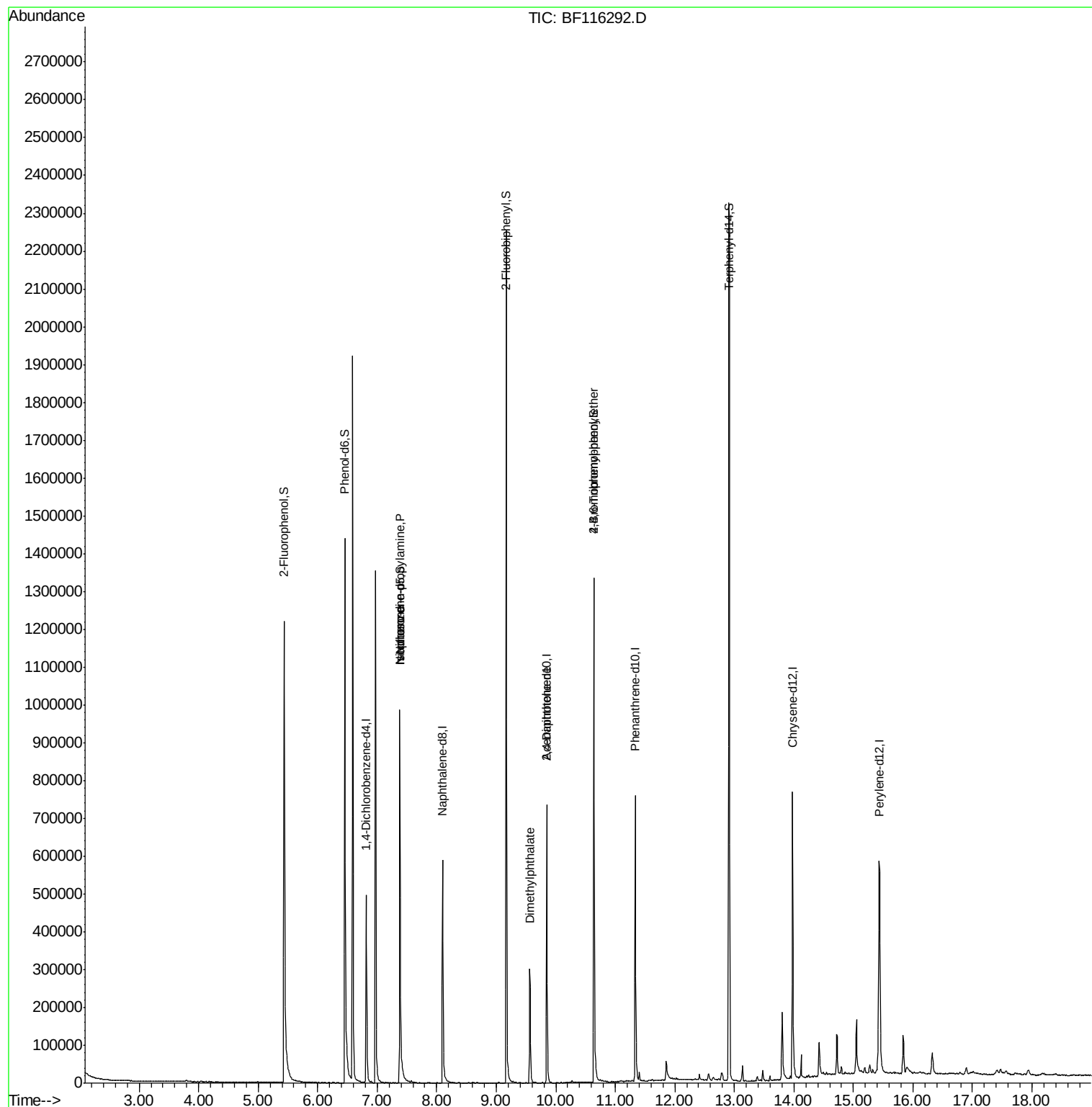
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.82  | 152  | 79592    | 20.00  | ng    | -0.03    |
| 21) Naphthalene-d8             | 8.10  | 136  | 306876   | 20.00  | ng    | -0.03    |
| 39) Acenaphthene-d10           | 9.85  | 164  | 163894   | 20.00  | ng    | -0.04    |
| 64) Phenanthrene-d10           | 11.33 | 188  | 317451   | 20.00  | ng    | -0.04    |
| 76) Chrysene-d12               | 13.98 | 240  | 295095   | 20.00  | ng    | -0.03    |
| 87) Perylene-d12               | 15.43 | 264  | 304260   | 20.00  | ng    | -0.04    |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.43  | 112  | 495337   | 104.18 | ng    | -0.04    |
| 7) Phenol-d6                   | 6.46  | 99   | 659000   | 109.86 | ng    | -0.03    |
| 23) Nitrobenzene-d5            | 7.38  | 82   | 398574   | 74.97  | ng    | -0.04    |
| 42) 2,4,6-Tribromophenol       | 10.64 | 330  | 177447   | 111.67 | ng    | -0.04    |
| 45) 2-Fluorobiphenyl           | 9.17  | 172  | 679703   | 77.68  | ng    | -0.04    |
| 79) Terphenyl-d14              | 12.92 | 244  | 830844   | 59.33  | ng    | -0.04    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.38  | 70   | 50782    | 13.662 | ng    | # 80     |
| 25) Isophorone                 | 7.38  | 82   | 398572   | 39.208 | ng    | # 65     |
| 50) Dimethylphthalate          | 9.56  | 163  | 142709   | 12.788 | ng    | 99       |
| 57) 2,4-Dinitrotoluene         | 9.85  | 165  | 20635    | 6.391  | ng    | # 20     |
| 67) 4-Bromophenyl-phenylether  | 10.64 | 248  | 10709    | 3.151  | ng    | # 1      |

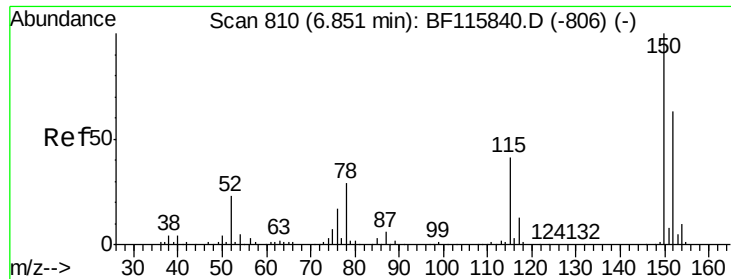
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081519\  
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BNA\_F  
ClientSampleId :

Quant Time: Aug 16 03:11:30 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



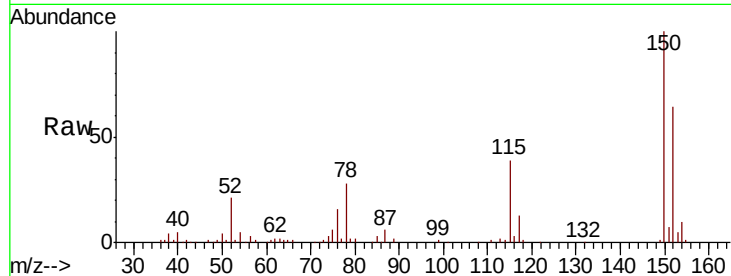


#1

1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.82 min Scan# 804  
 Delta R.T. -0.03 min  
 Lab File: BF116292.D  
 Acq: 15 Aug 2019 21:38

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.3 | 126.2 | 189.2 |
| 115     | 60.5  | 49.9  | 74.9  |

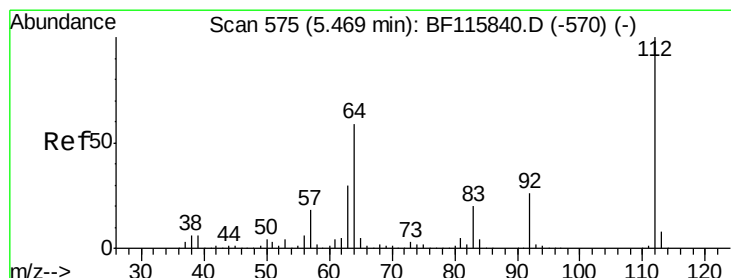
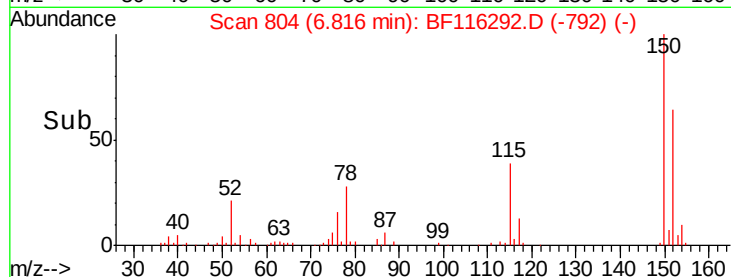
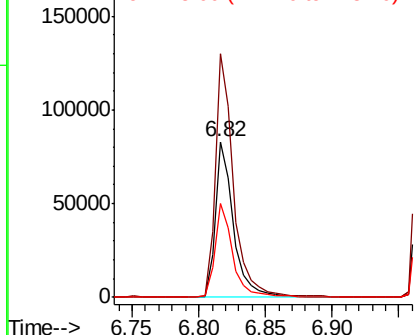


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

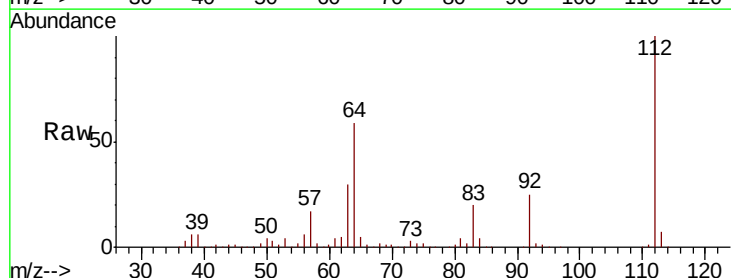
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
 Concen: 104.184 ng  
 RT: 5.43 min Scan# 569  
 Delta R.T. -0.04 min  
 Lab File: BF116292.D  
 Acq: 15 Aug 2019 21:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 59.0  | 45.4  | 68.2  |
| 63      | 30.3  | 23.7  | 35.5  |

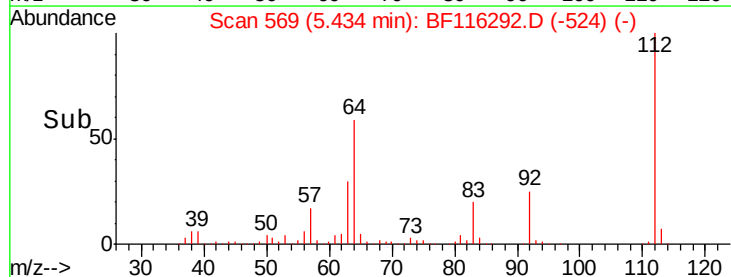
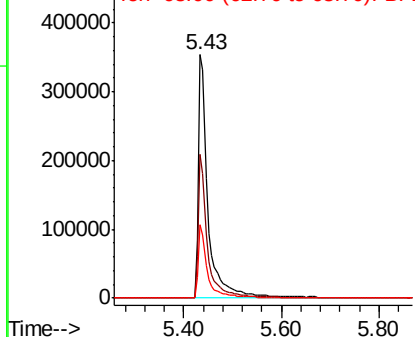


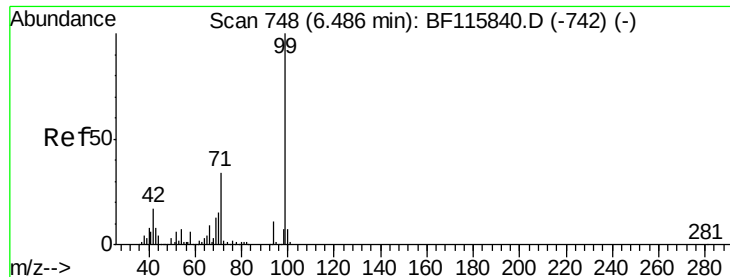
Abundance

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: 109.860 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.03 min

Lab File: BF116292.D

Acq: 15 Aug 2019 21:38

Instrument :

BNA\_F

ClientSampleId :

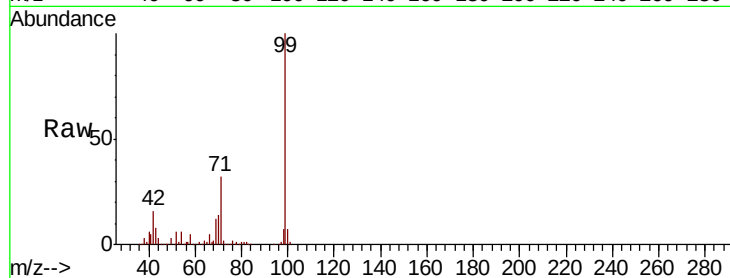
Tot Ion: 99 Resp: 659000

Ion Ratio Lower Upper

99 100

42 15.9 13.8 20.8

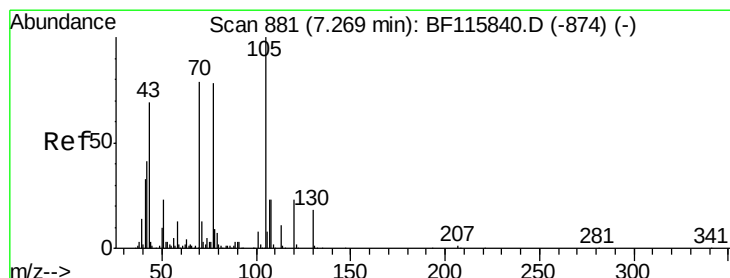
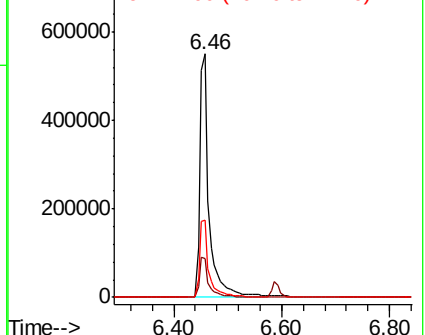
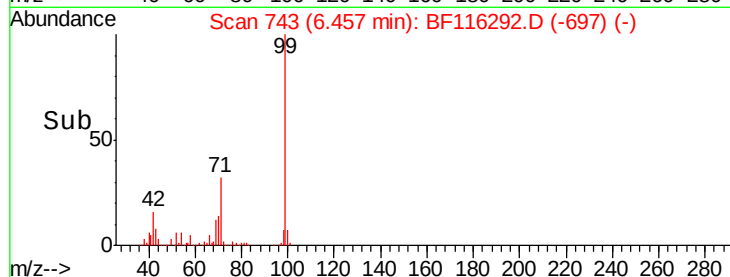
71 31.6 27.3 40.9



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: 13.662 ng

RT: 7.38 min Scan# 900

Delta R.T. 0.11 min

Lab File: BF116292.D

Acq: 15 Aug 2019 21:38

Tgt Ion: 70 Resp: 50782

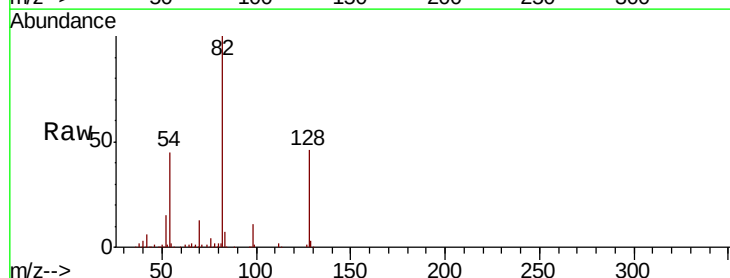
Ion Ratio Lower Upper

70 100

42 43.3 40.9 61.3

101 0.0 7.9 11.9#

130 2.7 16.9 25.3#

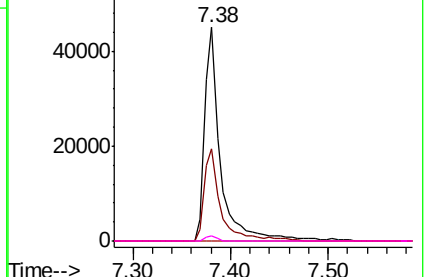
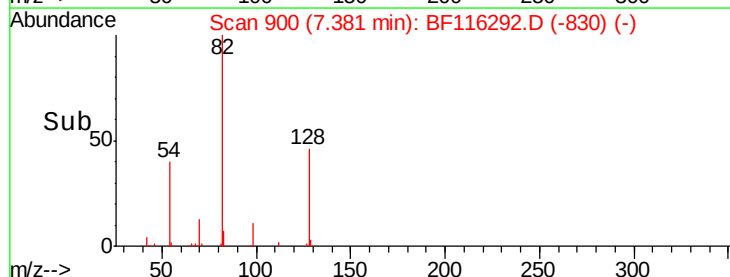


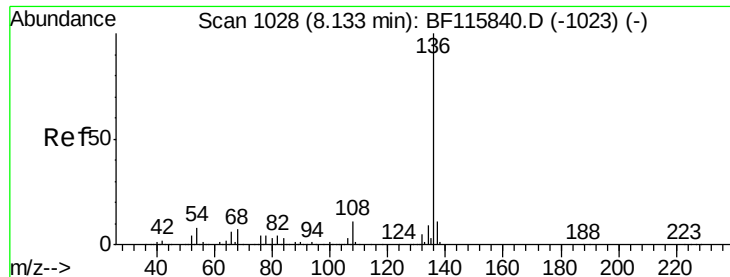
Abundance Ion 70.00 (69.70 to 70.70): BF1

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

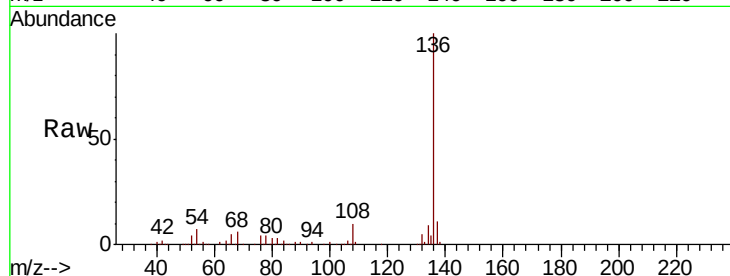




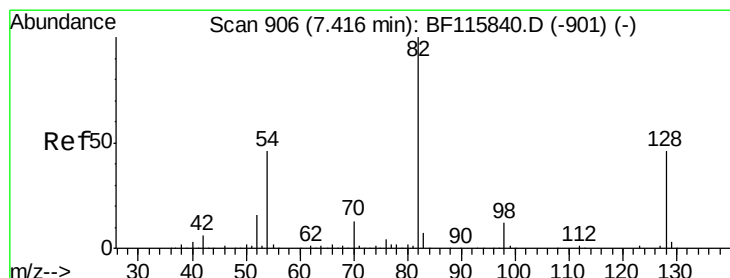
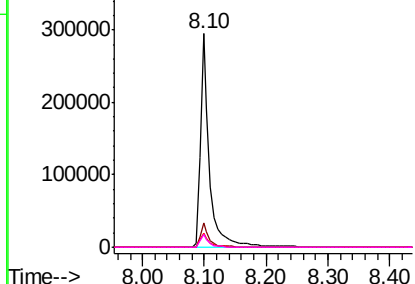
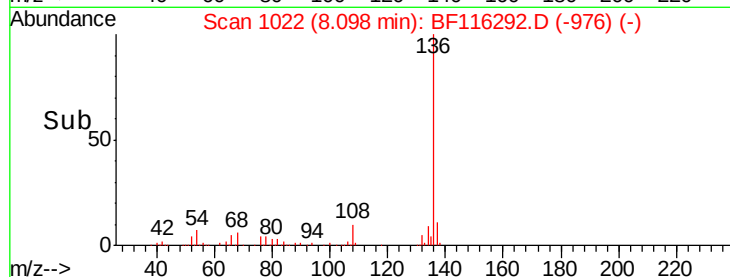
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.10 min Scan# 1022  
Delta R.T. -0.03 min  
Lab File: BF116292.D  
Acq: 15 Aug 2019 21:38

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tot Ion:136 | Resp: | 306876      |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 11.2  | 9.0 13.4    |
| 54          | 6.7   | 5.8 8.6     |
| 68          | 6.1   | 5.2 7.8     |

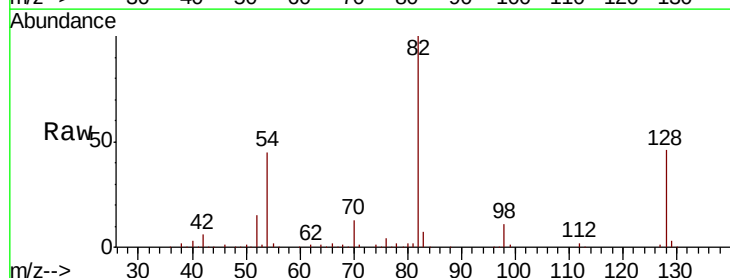


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

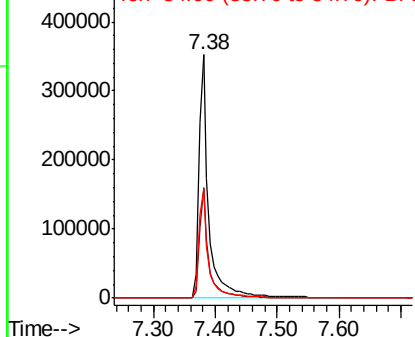
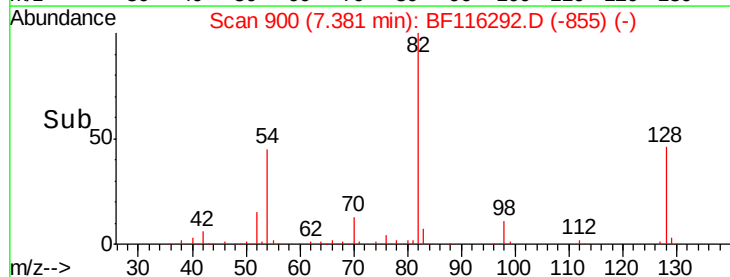


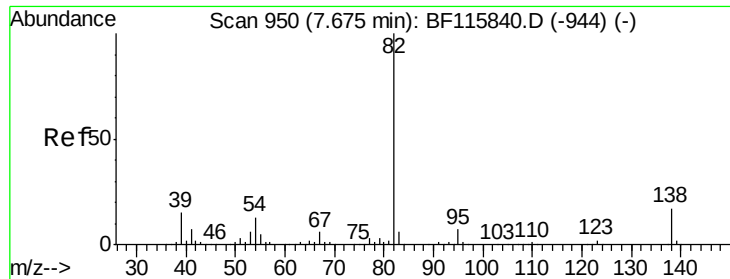
#23  
Nitrobenzene-d5  
Concen: 74.971 ng  
RT: 7.38 min Scan# 900  
Delta R.T. -0.04 min  
Lab File: BF116292.D  
Acq: 15 Aug 2019 21:38

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 398574      |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 45.6  | 36.5 54.7   |
| 54          | 44.6  | 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: 39.208 ng

RT: 7.38 min Scan# 900

Delta R.T. -0.29 min

Lab File: BF116292.D

Acq: 15 Aug 2019 21:38

Instrument :

BNA\_F

ClientSampled :

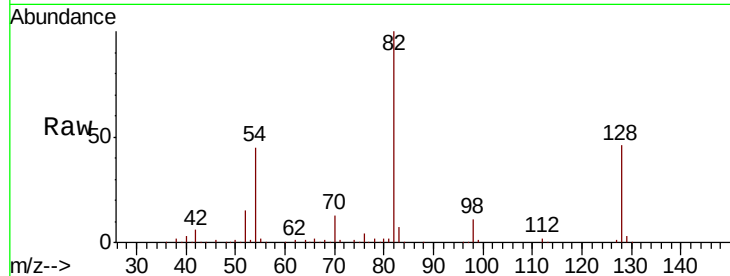
Tot Ion: 82 Resp: 398572

Ion Ratio Lower Upper

82 100

95 0.0 5.4 8.0#

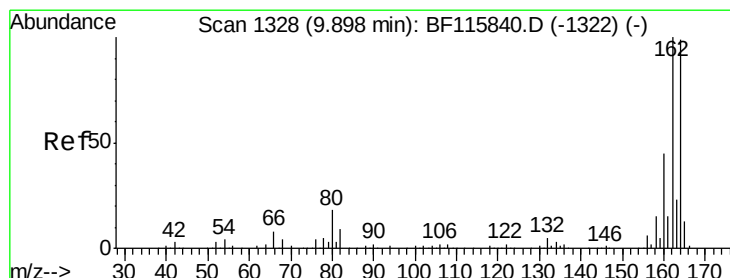
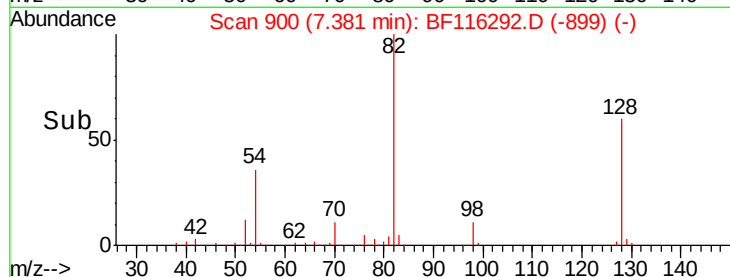
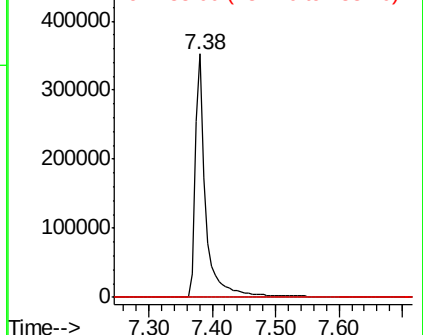
138 0.0 14.5 21.7#



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: 9.85 min Scan# 1320

Delta R.T. -0.04 min

Lab File: BF116292.D

Acq: 15 Aug 2019 21:38

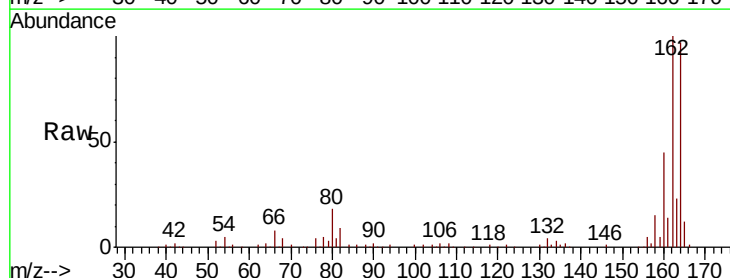
Tgt Ion: 164 Resp: 163894

Ion Ratio Lower Upper

164 100

162 102.6 82.6 124.0

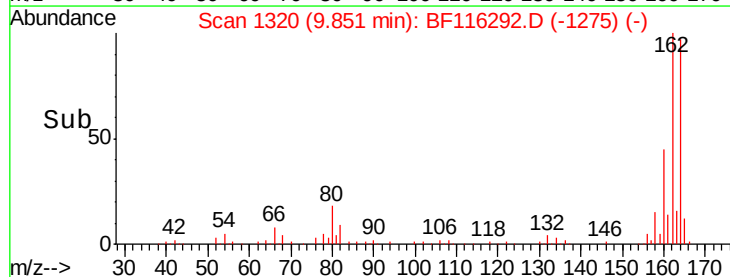
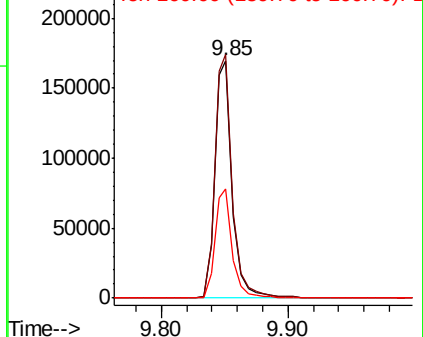
160 46.2 37.6 56.4

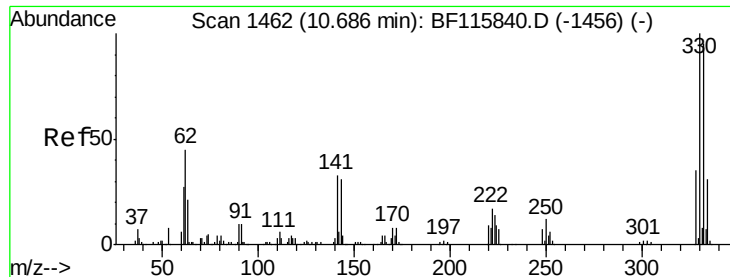


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

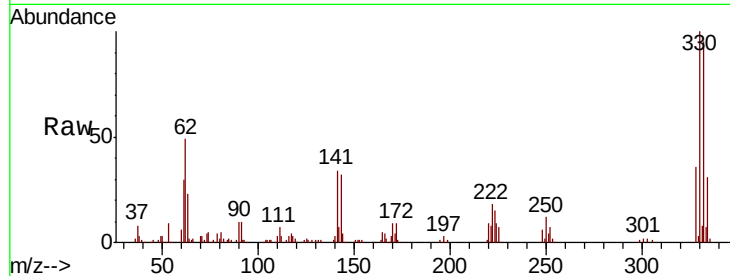




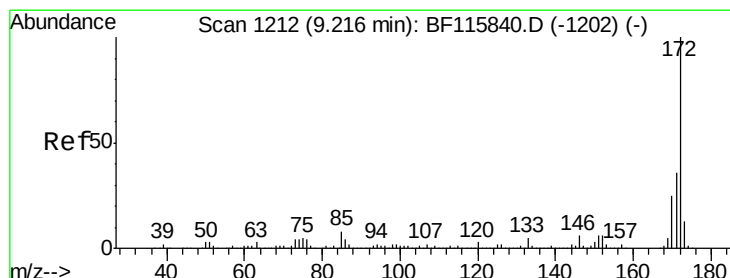
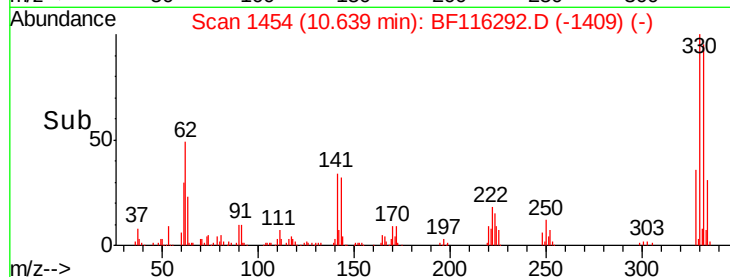
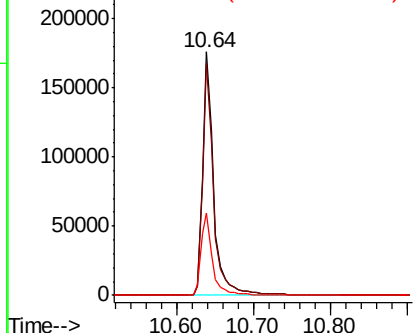
#42  
 2,4,6-Tribromophenol  
 Concen: 111.672 ng  
 RT: 10.64 min Scan# 1454  
 Delta R.T. -0.04 min  
 Lab File: BF116292.D  
 Acq: 15 Aug 2019 21:38

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.0  | 76.8  | 115.2 |
| 141     | 34.4  | 26.3  | 39.5  |

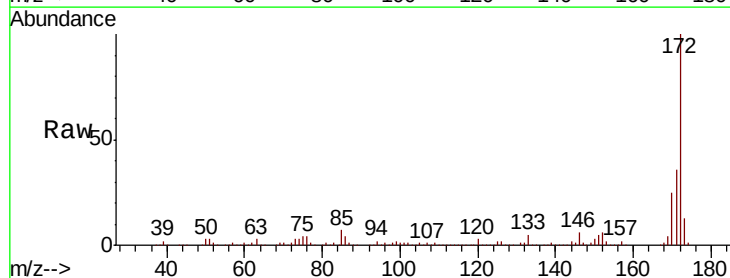


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

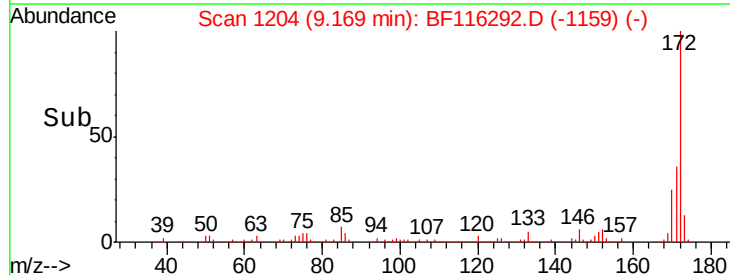
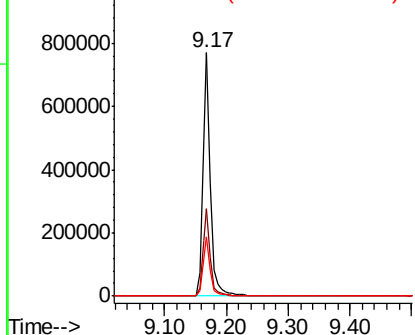


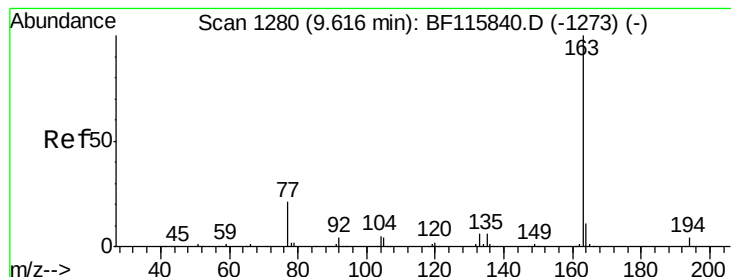
#45  
 2-Fluorobiphenyl  
 Concen: 77.680 ng  
 RT: 9.17 min Scan# 1204  
 Delta R.T. -0.04 min  
 Lab File: BF116292.D  
 Acq: 15 Aug 2019 21:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.0  | 29.6  | 44.4  |
| 170     | 24.6  | 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: 12.788 ng

RT: 9.56 min Scan# 1271

Delta R.T. -0.04 min

Lab File: BF116292.D

Acq: 15 Aug 2019 21:38

Instrument :

BNA\_F

ClientSampleId :

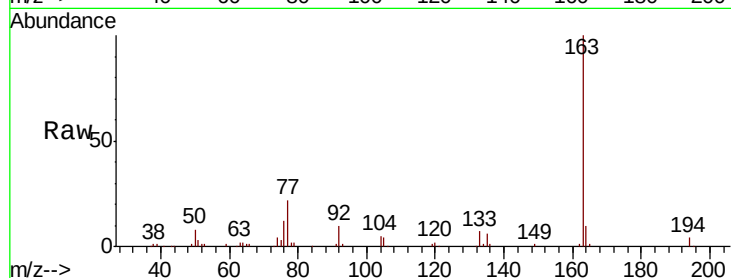
Tot Ion:163 Resp: 142709

Ion Ratio Lower Upper

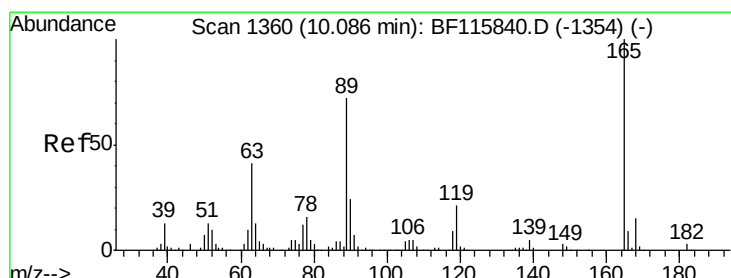
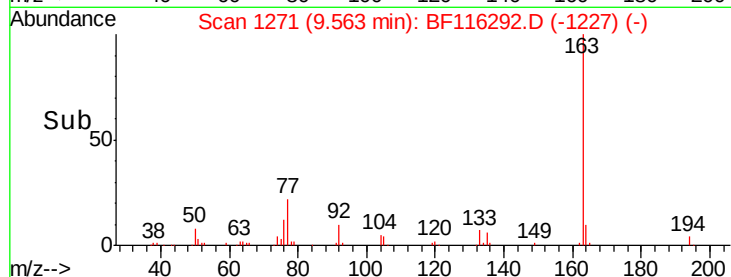
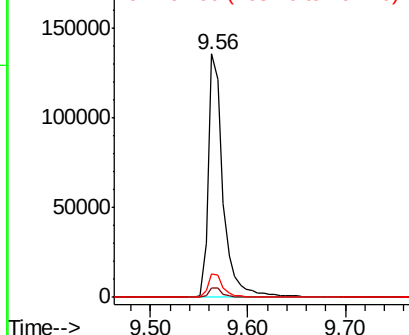
163 100

194 3.7 3.0 4.6

164 9.8 8.4 12.6



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



#57

2,4-Dinitrotoluene

Concen: 6.391 ng

RT: 9.85 min Scan# 1320

Delta R.T. -0.23 min

Lab File: BF116292.D

Acq: 15 Aug 2019 21:38

Tgt Ion:165 Resp: 20635

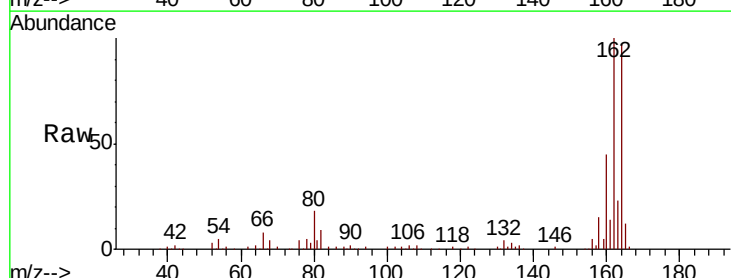
Ion Ratio Lower Upper

165 100

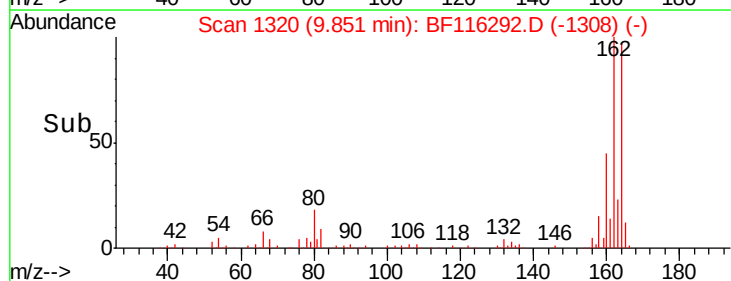
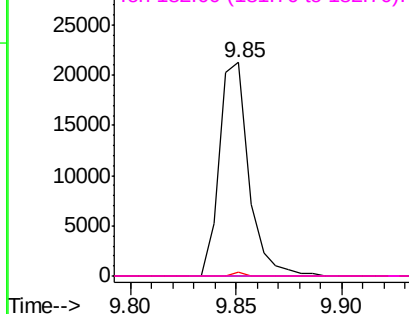
63 0.0 39.6 59.4#

89 1.6 62.2 93.2#

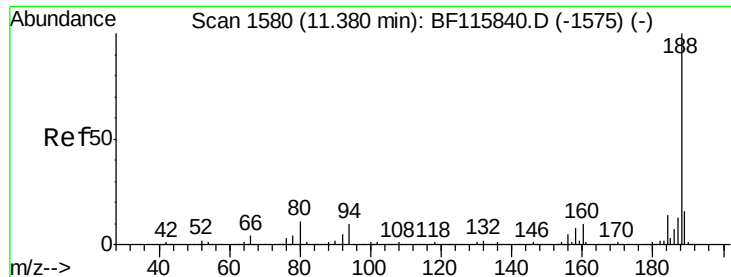
182 0.0 2.1 3.1#



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



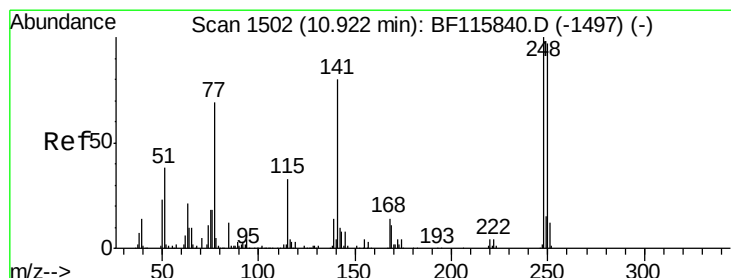
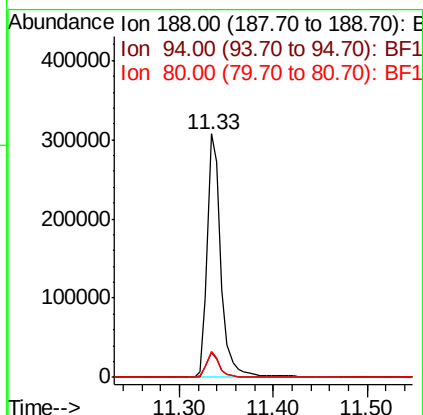
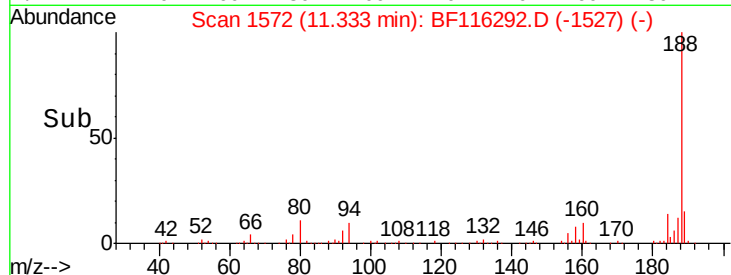
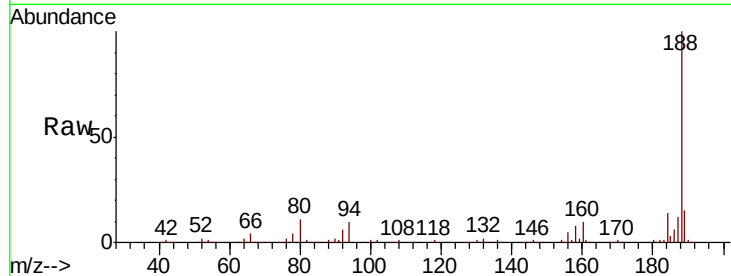




#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.33 min Scan# 1572  
 Delta R.T. -0.04 min  
 Lab File: BF116292.D  
 Acq: 15 Aug 2019 21:38

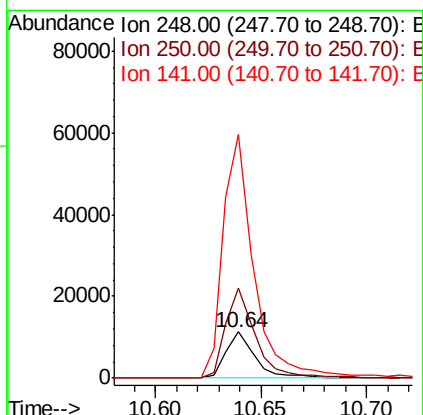
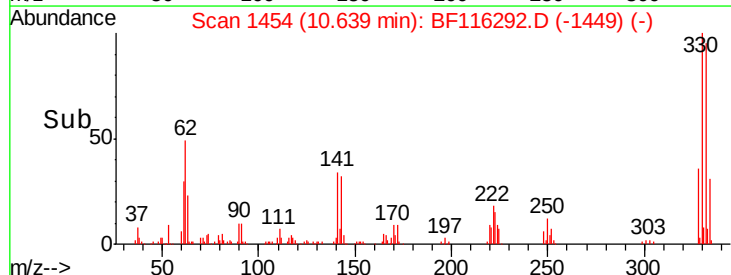
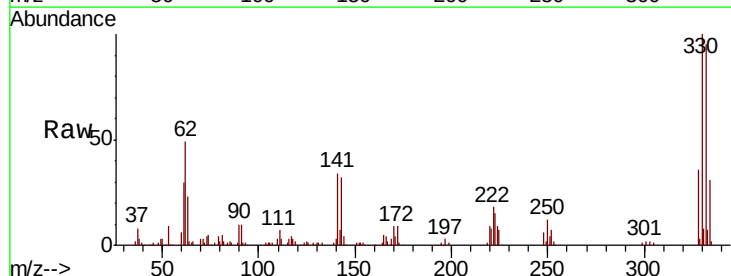
Instrument :  
 BNA\_F  
 ClientSampleId :

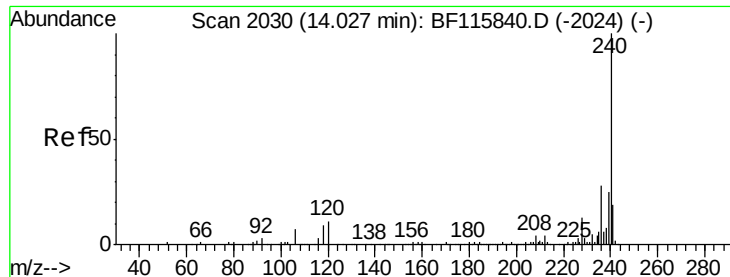
Tot Ion:188 Resp: 317451  
 Ion Ratio Lower Upper  
 188 100  
 94 10.1 8.1 12.1  
 80 10.9 8.7 13.1



#67  
 4-Bromophenyl-phenylether  
 Concen: 3.151 ng  
 RT: 10.64 min Scan# 1454  
 Delta R.T. -0.27 min  
 Lab File: BF116292.D  
 Acq: 15 Aug 2019 21:38

Tgt Ion:248 Resp: 10709  
 Ion Ratio Lower Upper  
 248 100  
 250 193.4 77.4 116.2#  
 141 524.9 56.8 85.2#

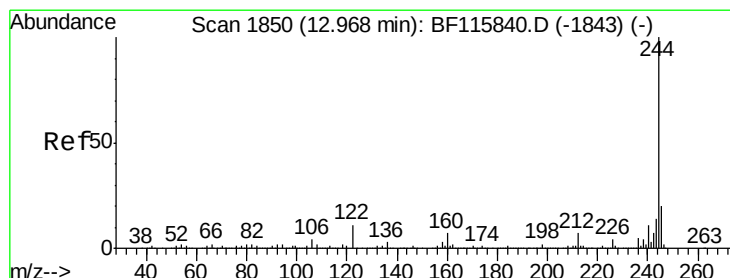
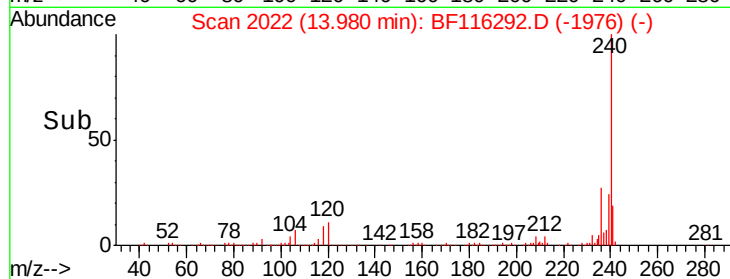
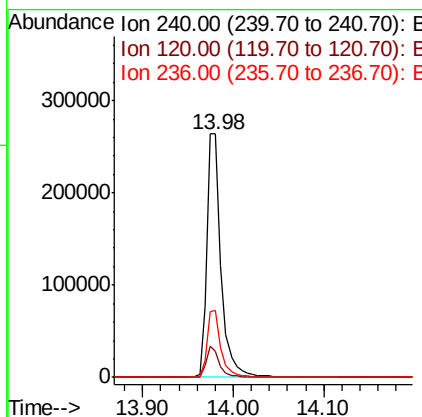
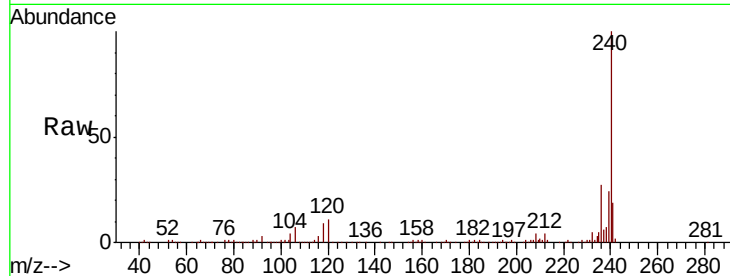




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.98 min Scan# 2022  
Delta R.T. -0.03 min  
Lab File: BF116292.D  
Acq: 15 Aug 2019 21:38

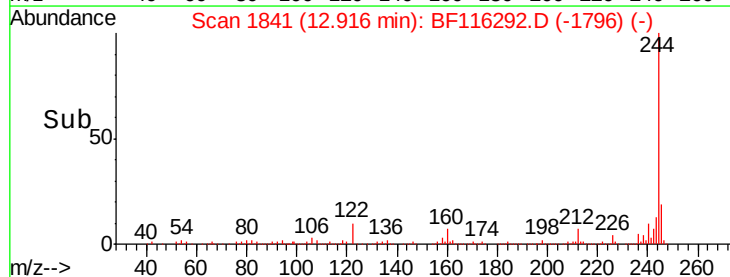
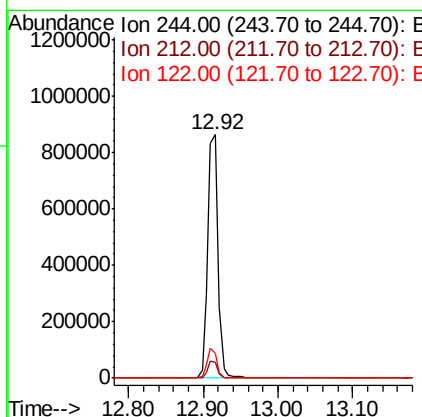
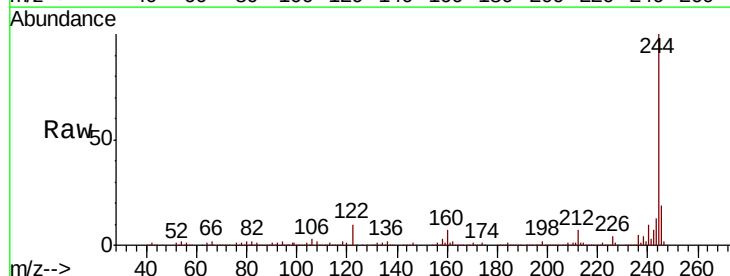
Instrument :  
BNA\_F  
ClientSampleId :

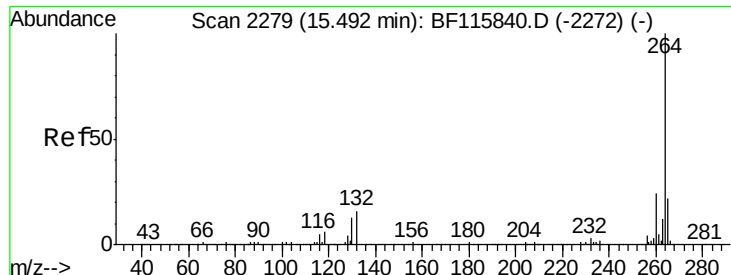
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 10.8  | 10.7  | 16.1  |
| 236     | 27.3  | 22.2  | 33.2  |



#79  
Terphenyl-d14  
Concen: 59.328 ng  
RT: 12.92 min Scan# 1841  
Delta R.T. -0.04 min  
Lab File: BF116292.D  
Acq: 15 Aug 2019 21:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.7   | 5.8   | 8.8   |
| 122     | 10.2  | 9.0   | 13.4  |

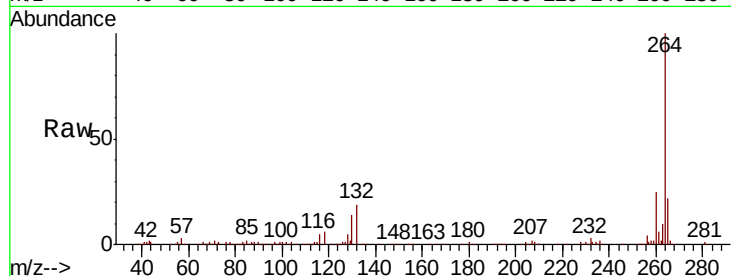




#87  
 Pervlene-d12  
 Concen: 20.000 ng  
 RT: 15.43 min Scan# 2269  
 Delta R.T. -0.04 min  
 Lab File: BF116292.D  
 Acq: 15 Aug 2019 21:38

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.6  | 19.7  | 29.5  |
| 265     | 22.2  | 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

