

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081019\  
 Data File : BF116164.D  
 Acq On : 10 Aug 2019 23:59  
 Operator : HP/JU  
 Sample : K4284-05  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Aug 12 00:59:30 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

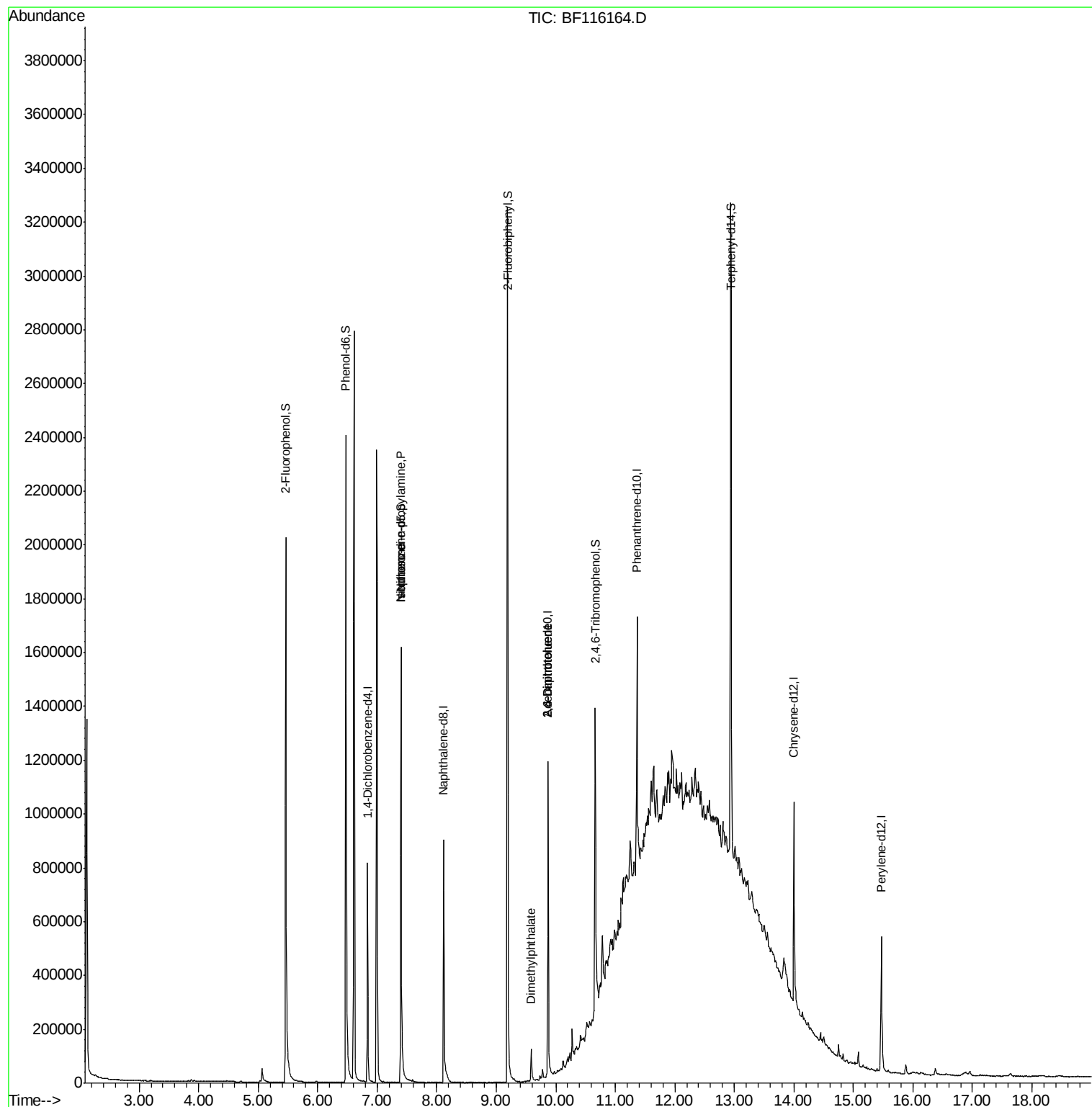
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.84  | 152  | 131601   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.12  | 136  | 510377   | 20.00  | ng    | -0.01    |
| 39) Acenaphthene-d10           | 9.87  | 164  | 258155   | 20.00  | ng    | -0.02    |
| 64) Phenanthrene-d10           | 11.36 | 188  | 381366   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 14.00 | 240  | 271989   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12               | 15.47 | 264  | 270857   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.46  | 112  | 694149   | 88.30  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.47  | 99   | 964414   | 97.24  | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.40  | 82   | 632457   | 71.53  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol       | 10.66 | 330  | 165032   | 65.94  | ng    | -0.01    |
| 45) 2-Fluorobiphenyl           | 9.19  | 172  | 1115556  | 80.94  | ng    | -0.01    |
| 79) Terphenyl-d14              | 12.94 | 244  | 941343   | 72.93  | ng    | -0.01    |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.40  | 70   | 83728    | 13.623 | ng    | # 79     |
| 25) Isophorone                 | 7.40  | 82   | 632454   | 37.408 | ng    | # 65     |
| 50) Dimethylphthalate          | 9.59  | 163  | 62733    | 3.569  | ng    | 99       |
| 51) 2,6-Dinitrotoluene         | 9.87  | 165  | 34146    | 8.939  | ng    | # 29     |
| 57) 2,4-Dinitrotoluene         | 9.87  | 165  | 34290    | 6.742  | ng    | # 20     |

(#) = 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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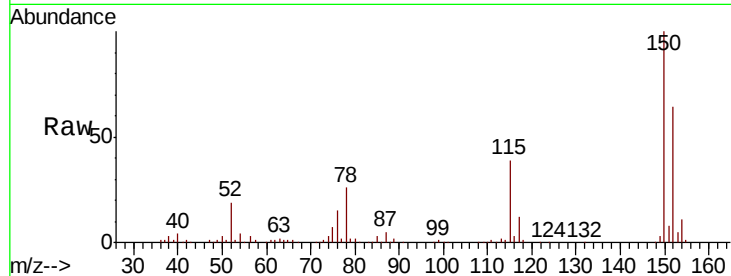


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.84 min Scan# 808  
Delta R.T. -0.01 min  
Lab File: BF116164.D  
Acq: 10 Aug 2019 23:59

Instrument :  
BNA\_F  
ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.6 | 126.2 | 189.2 |
| 115     | 59.9  | 49.9  | 74.9  |

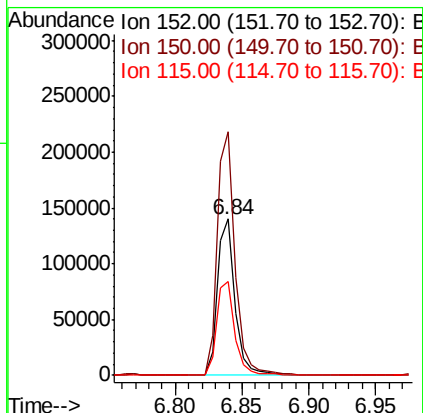
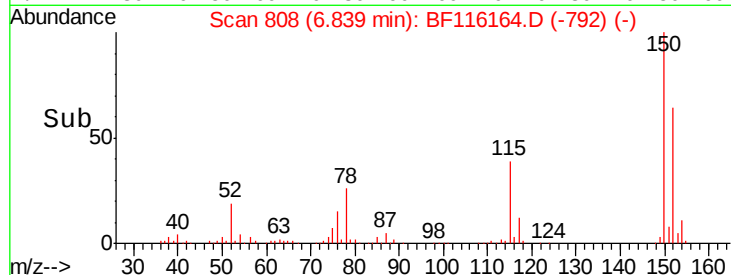


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

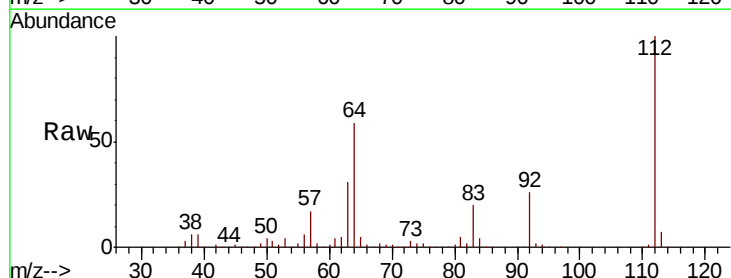
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 88.301 ng  
RT: 5.46 min Scan# 574  
Delta R.T. -0.01 min  
Lab File: BF116164.D  
Acq: 10 Aug 2019 23:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 59.4  | 45.4  | 68.2  |
| 63      | 30.6  | 23.7  | 35.5  |

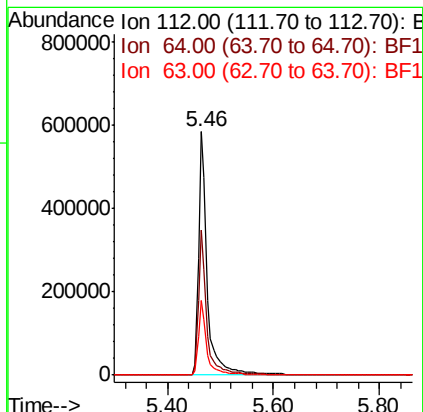
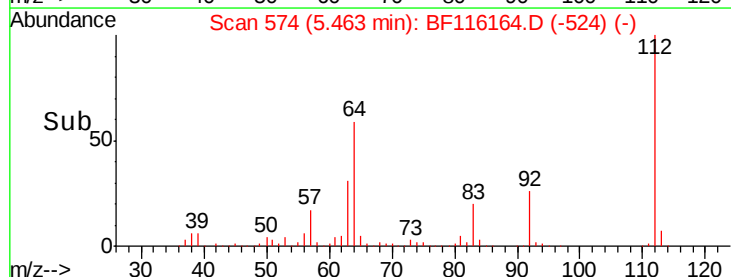


Abundance

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: 97.236 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.01 min

Lab File: BF116164.D

Acq: 10 Aug 2019 23:59

Instrument :

BNA\_F

ClientSampled :

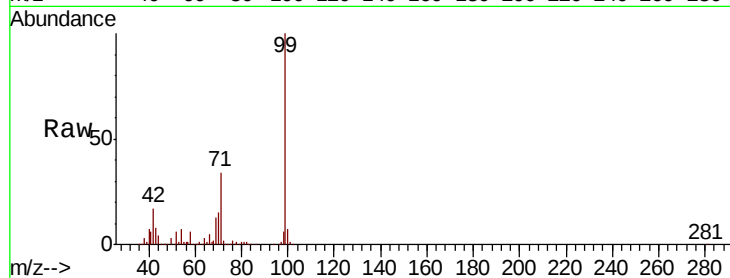
Tot Ion: 99 Resp: 964414

Ion Ratio Lower Upper

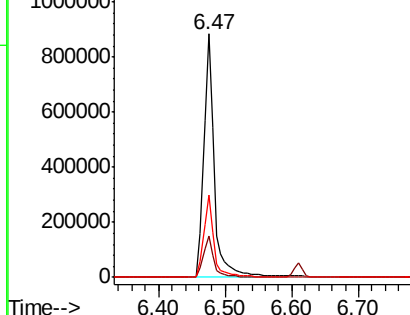
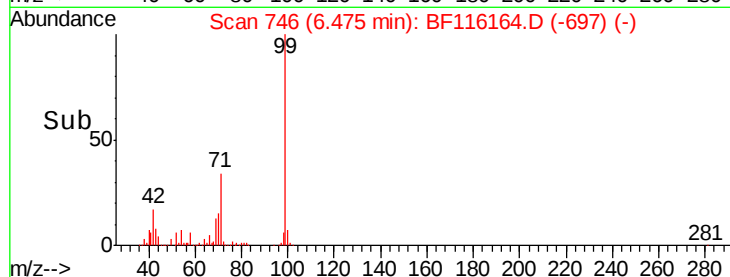
99 100

42 16.8 13.8 20.8

71 33.9 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: 13.623 ng

RT: 7.40 min Scan# 903

Delta R.T. 0.13 min

Lab File: BF116164.D

Acq: 10 Aug 2019 23:59

Tgt Ion: 70 Resp: 83728

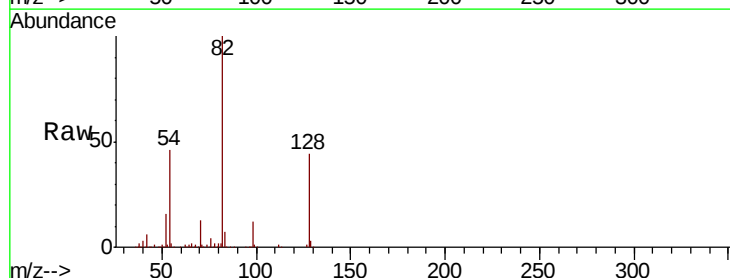
Ion Ratio Lower Upper

70 100

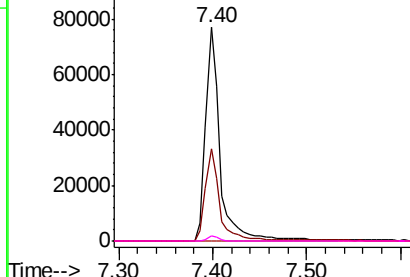
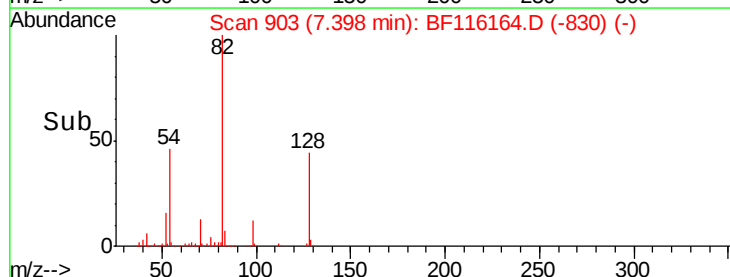
42 43.1 40.9 61.3

101 0.0 7.9 11.9#

130 2.2 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: BF116164.D

Acq: 10 Aug 2019 23:59

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 510377

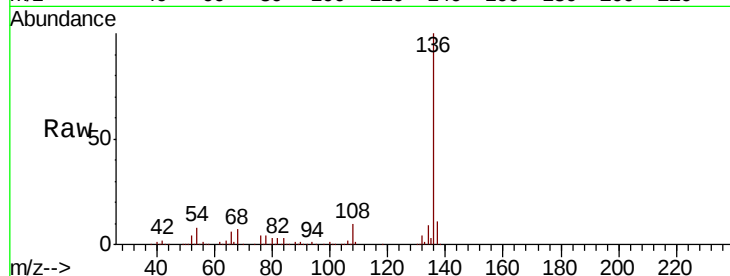
Ion Ratio Lower Upper

136 100

137 10.9 9.0 13.4

54 7.5 5.8 8.6

68 6.6 5.2 7.8

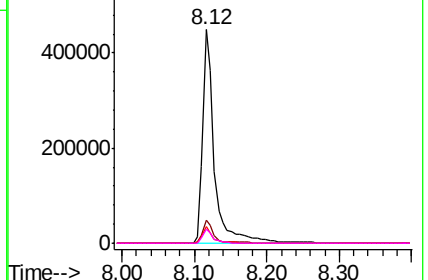
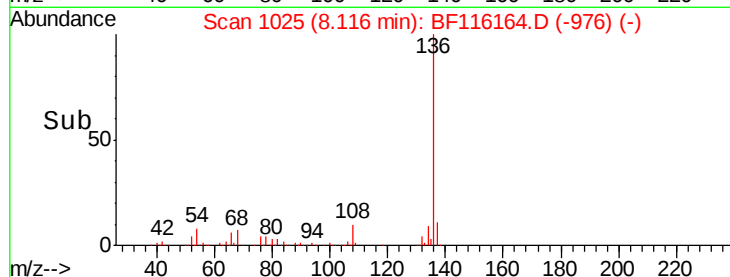


Abundance Ion 136.00 (135.70 to 136.70): E

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: 71.530 ng

RT: 7.40 min Scan# 903

Delta R.T. -0.02 min

Lab File: BF116164.D

Acq: 10 Aug 2019 23:59

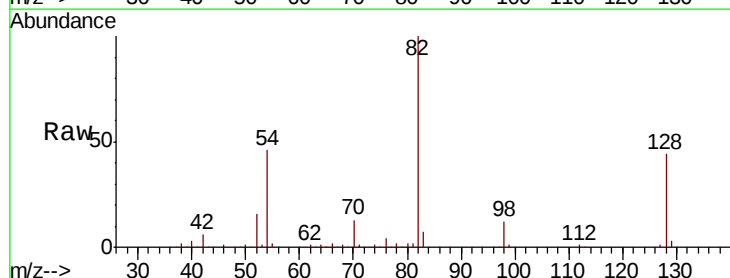
Tgt Ion: 82 Resp: 632457

Ion Ratio Lower Upper

82 100

128 43.7 36.5 54.7

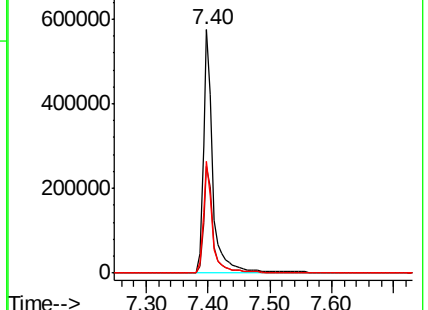
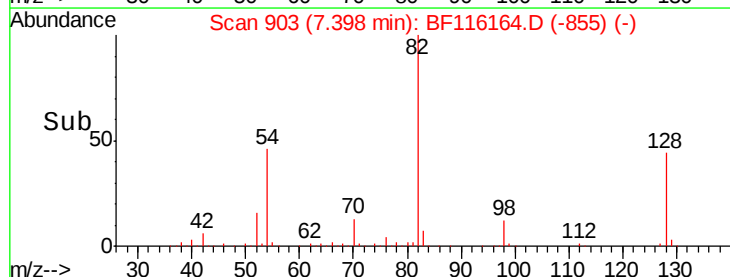
54 45.8 36.0 54.0



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

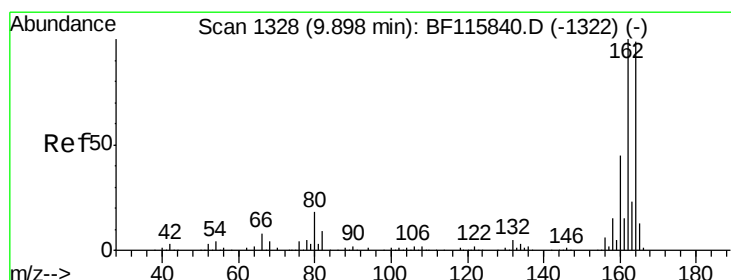
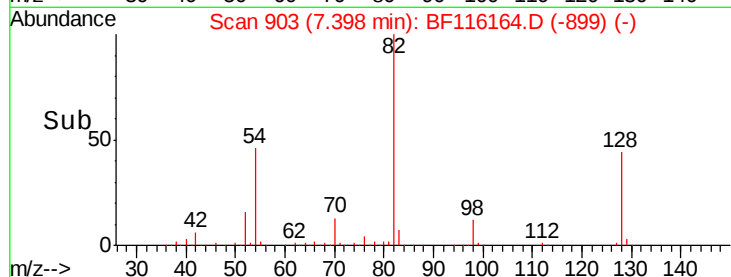
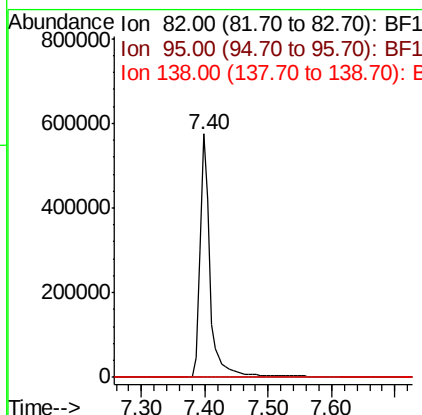
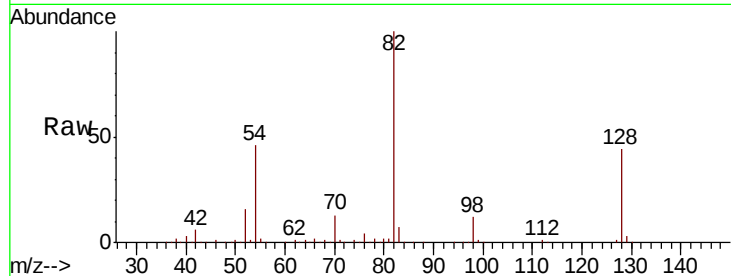




#25  
Isophorone  
Concen: 37.408 ng  
RT: 7.40 min Scan# 903  
Delta R.T. -0.28 min  
Lab File: BF116164.D  
Acq: 10 Aug 2019 23:59

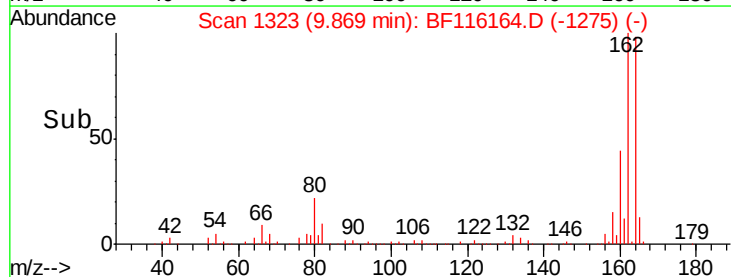
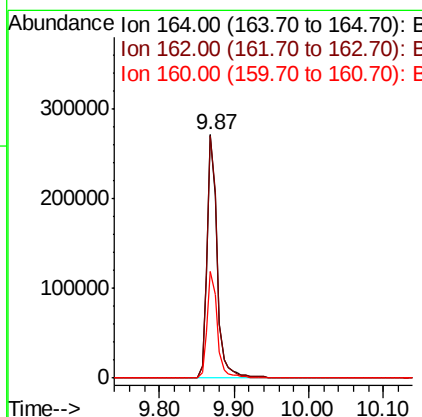
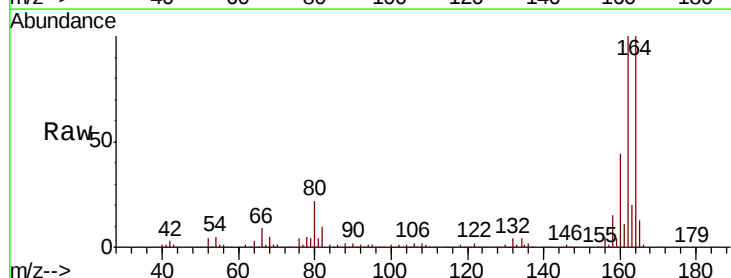
Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion: 82 Resp: 632454  
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: BF116164.D  
Acq: 10 Aug 2019 23:59

Tgt Ion: 164 Resp: 258155  
Ion Ratio Lower Upper  
164 100  
162 99.7 82.6 124.0  
160 44.0 37.6 56.4

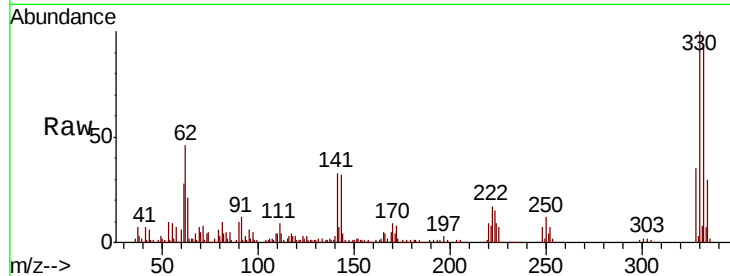




#42  
 2,4,6-Tribromophenol  
 Concen: 65.937 ng  
 RT: 10.66 min Scan# 1458  
 Delta R.T. -0.01 min  
 Lab File: BF116164.D  
 Acq: 10 Aug 2019 23:59

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 94.8  | 76.8  | 115.2 |
| 141     | 33.4  | 26.3  | 39.5  |

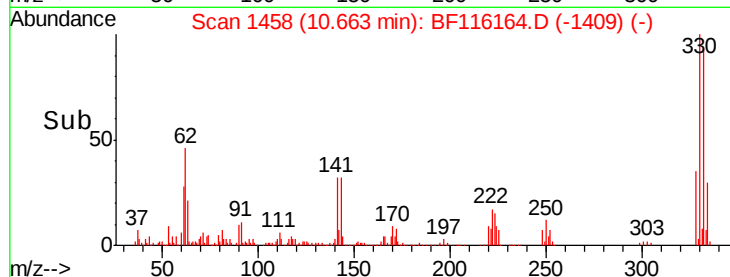
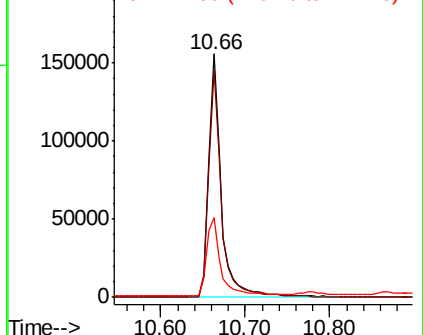


Abundance

Ion 329.80 (329.50 to 330.50): E

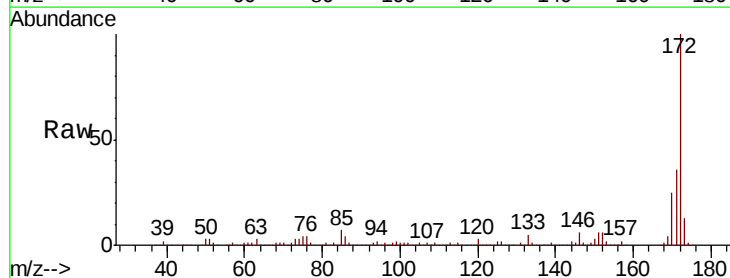
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



#45  
 2-Fluorobiphenyl  
 Concen: 80.940 ng  
 RT: 9.19 min Scan# 1208  
 Delta R.T. -0.01 min  
 Lab File: BF116164.D  
 Acq: 10 Aug 2019 23:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.8  | 29.6  | 44.4  |
| 170     | 24.8  | 20.1  | 30.1  |

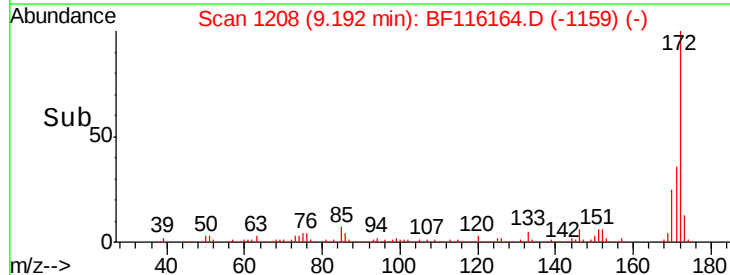
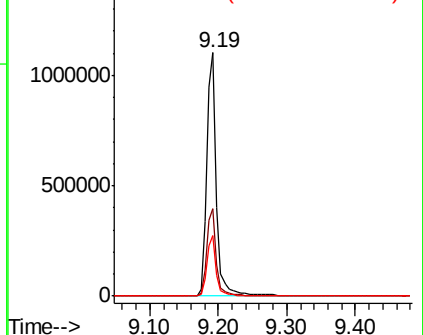


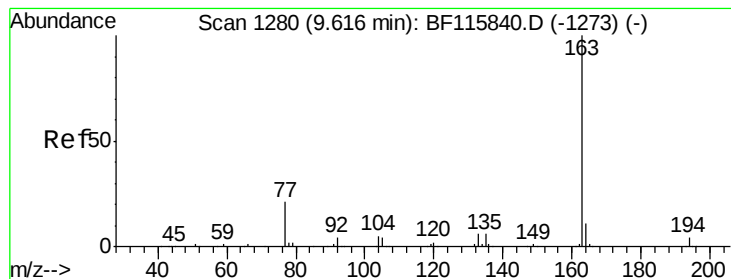
Abundance

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





#50

Dimethylphthalate

Concen: 3.569 ng

RT: 9.59 min Scan# 1275

Delta R.T. -0.02 min

Lab File: BF116164.D

Acq: 10 Aug 2019 23:59

Instrument :

BNA\_F

ClientSampleId :

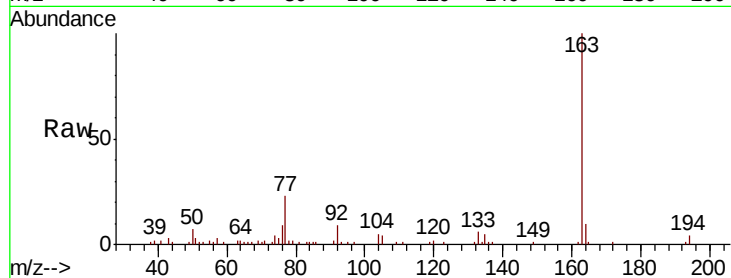
Tot Ion:163 Resp: 62733

Ion Ratio Lower Upper

163 100

194 3.7 3.0 4.6

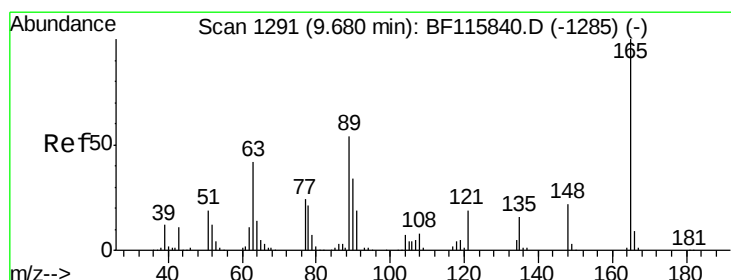
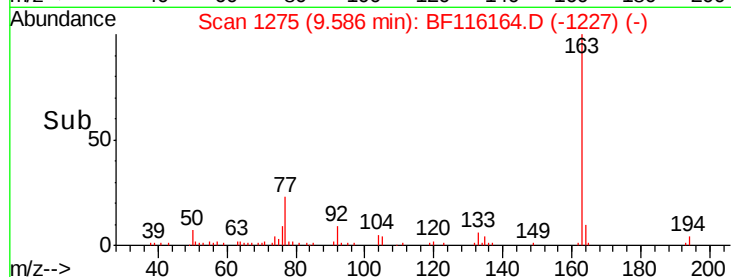
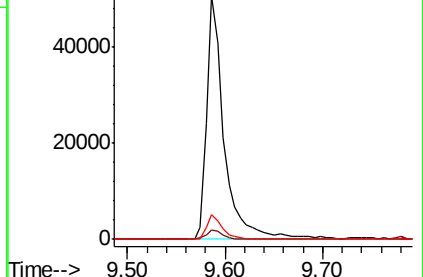
164 10.1 8.4 12.6



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



#51

2,6-Dinitrotoluene

Concen: 8.939 ng

RT: 9.87 min Scan# 1323

Delta R.T. 0.19 min

Lab File: BF116164.D

Acq: 10 Aug 2019 23:59

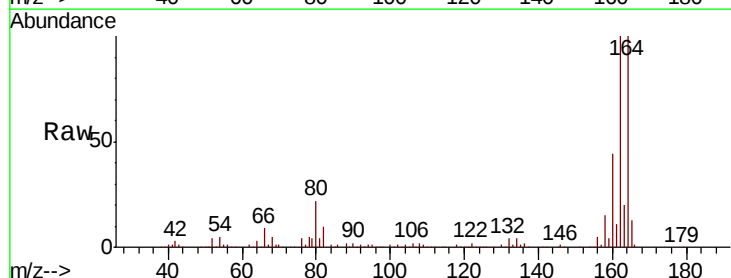
Tgt Ion:165 Resp: 34146

Ion Ratio Lower Upper

165 100

63 1.2 38.2 57.2#

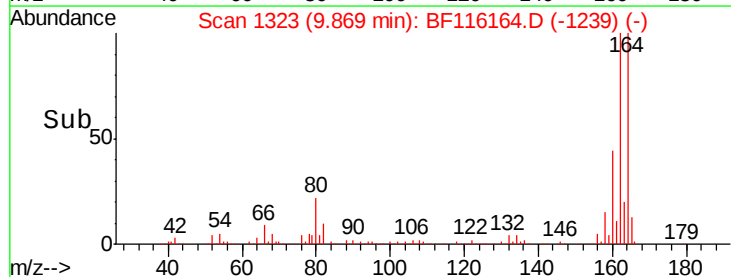
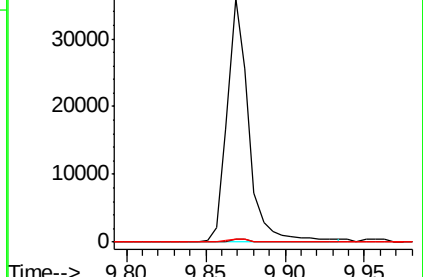
89 1.3 42.9 64.3#

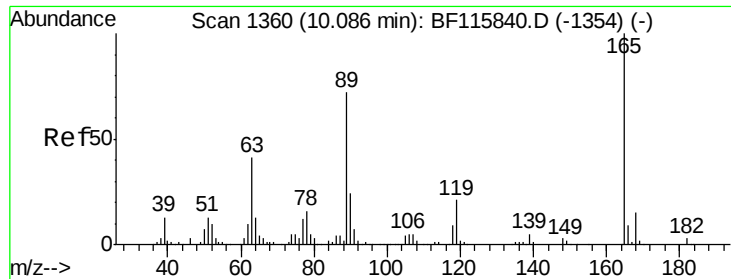


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

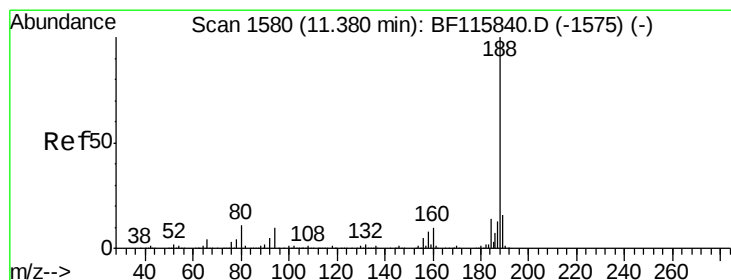
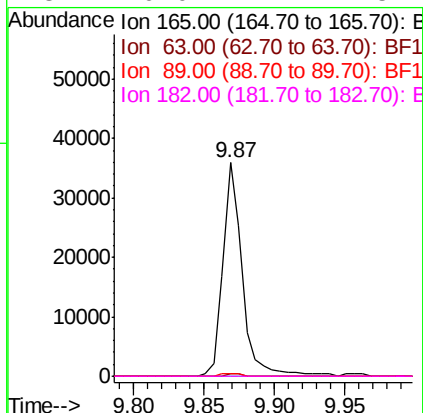
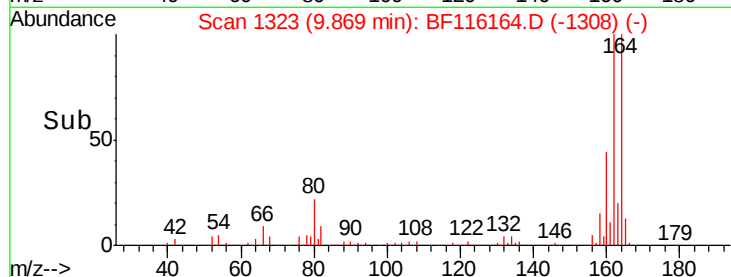
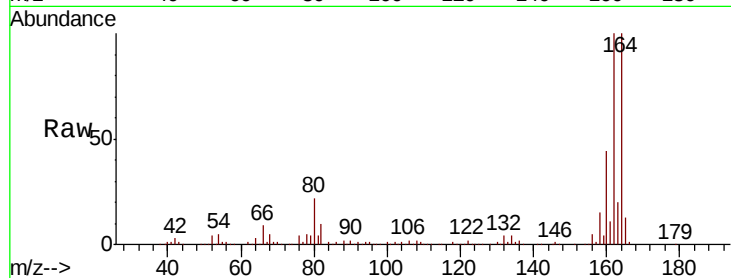




#57  
 2,4-Dinitrotoluene  
 Concen: 6.742 ng  
 RT: 9.87 min Scan# 1323  
 Delta R.T. -0.21 min  
 Lab File: BF116164.D  
 Acq: 10 Aug 2019 23:59

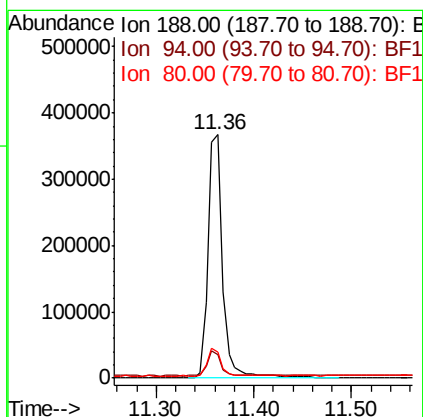
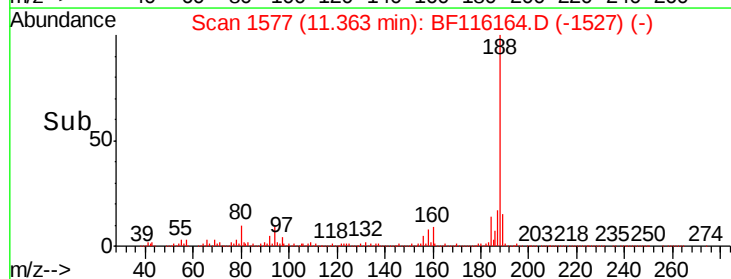
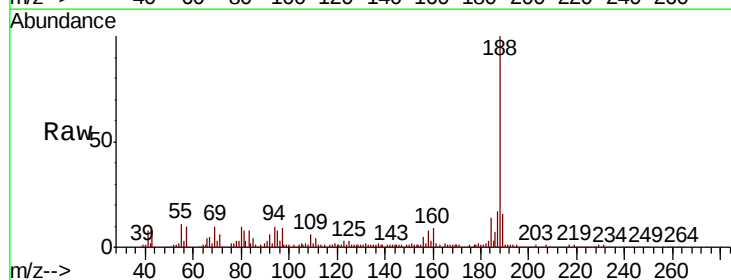
Instrument :  
 BNA\_F  
 ClientSampleId :

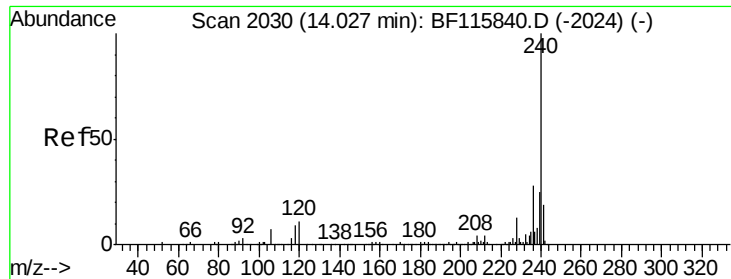
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.2   | 39.6  | 59.4# |
| 89      | 1.3   | 62.2  | 93.2# |
| 182     | 0.0   | 2.1   | 3.1#  |



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.36 min Scan# 1577  
 Delta R.T. -0.01 min  
 Lab File: BF116164.D  
 Acq: 10 Aug 2019 23:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.9   | 8.1   | 12.1  |
| 80      | 10.5  | 8.7   | 13.1  |

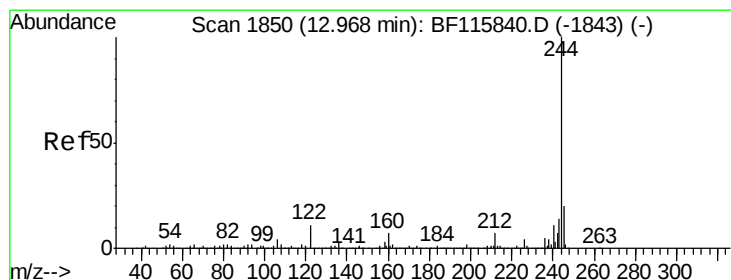
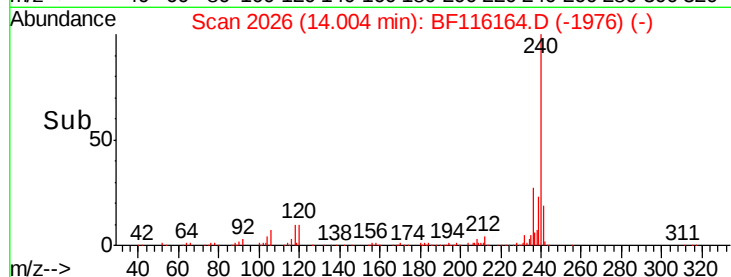
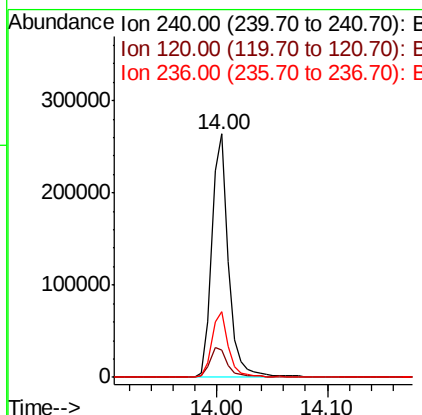
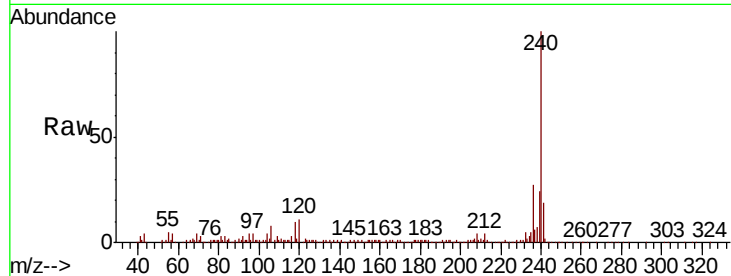




#76  
 Chrvsene-d12  
 Concen: 20.000 ng  
 RT: 14.00 min Scan# 2026  
 Delta R.T. -0.01 min  
 Lab File: BF116164.D  
 Acq: 10 Aug 2019 23:59

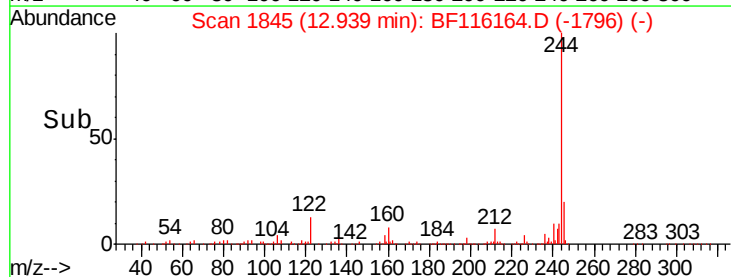
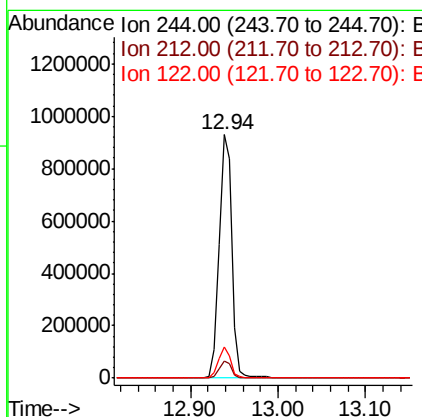
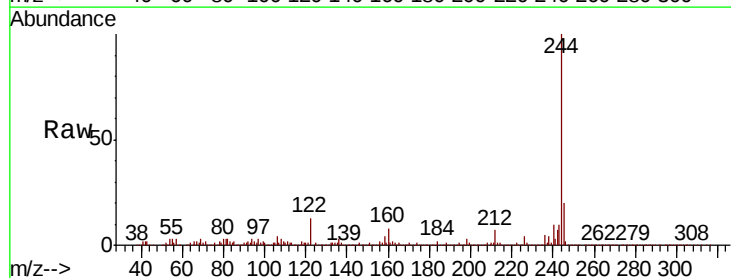
Instrument :  
 BNA\_F  
 ClientSampleId :

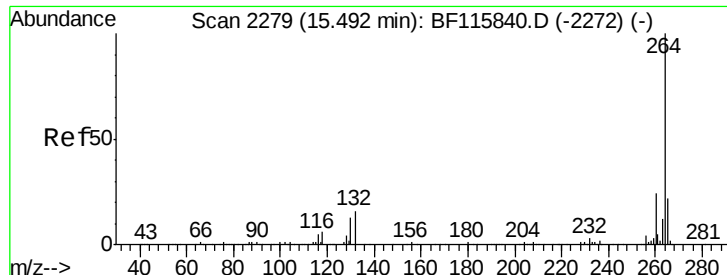
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 11.0  | 10.7  | 16.1  |
| 236     | 27.1  | 22.2  | 33.2  |



#79  
 Terphenyl-d14  
 Concen: 72.928 ng  
 RT: 12.94 min Scan# 1845  
 Delta R.T. -0.01 min  
 Lab File: BF116164.D  
 Acq: 10 Aug 2019 23:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.0   | 5.8   | 8.8   |
| 122     | 12.8  | 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: BF116164.D  
 Acq: 10 Aug 2019 23:59

Instrument :  
 BNA\_F  
 ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 264   | Resp: | 270857 |
| Ion      | Ratio | Lower | Upper  |
| 264      | 100   |       |        |
| 260      | 24.4  | 19.7  | 29.5   |
| 265      | 21.8  | 17.4  | 26.0   |

