

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF081019\  
 Data File : BF116146.D  
 Acq On : 10 Aug 2019 13:09  
 Operator : HP/JU  
 Sample : K4294-01  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Aug 12 00:54:55 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 | 6.84  | 152  | 151710   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.12  | 136  | 608008   | 20.00 | ng    | -0.01    |
| 39) Acenaphthene-d10      | 9.87  | 164  | 326361   | 20.00 | ng    | -0.02    |
| 64) Phenanthrene-d10      | 11.36 | 188  | 543699   | 20.00 | ng    | -0.01    |
| 76) Chrysene-d12          | 14.00 | 240  | 318134   | 20.00 | ng    | 0.00     |
| 87) Perylene-d12          | 15.47 | 264  | 336028   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.46  | 112  | 850710   | 93.87 | ng    | 0.00     |
| 7) Phenol-d6                | 6.47  | 99   | 1118506  | 97.82 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.40  | 82   | 733973   | 69.68 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.66 | 330  | 248179   | 78.43 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.19  | 172  | 1322689  | 75.91 | ng    | -0.01    |
| 79) Terphenyl-d14           | 12.94 | 244  | 1292599  | 85.62 | ng    | -0.01    |

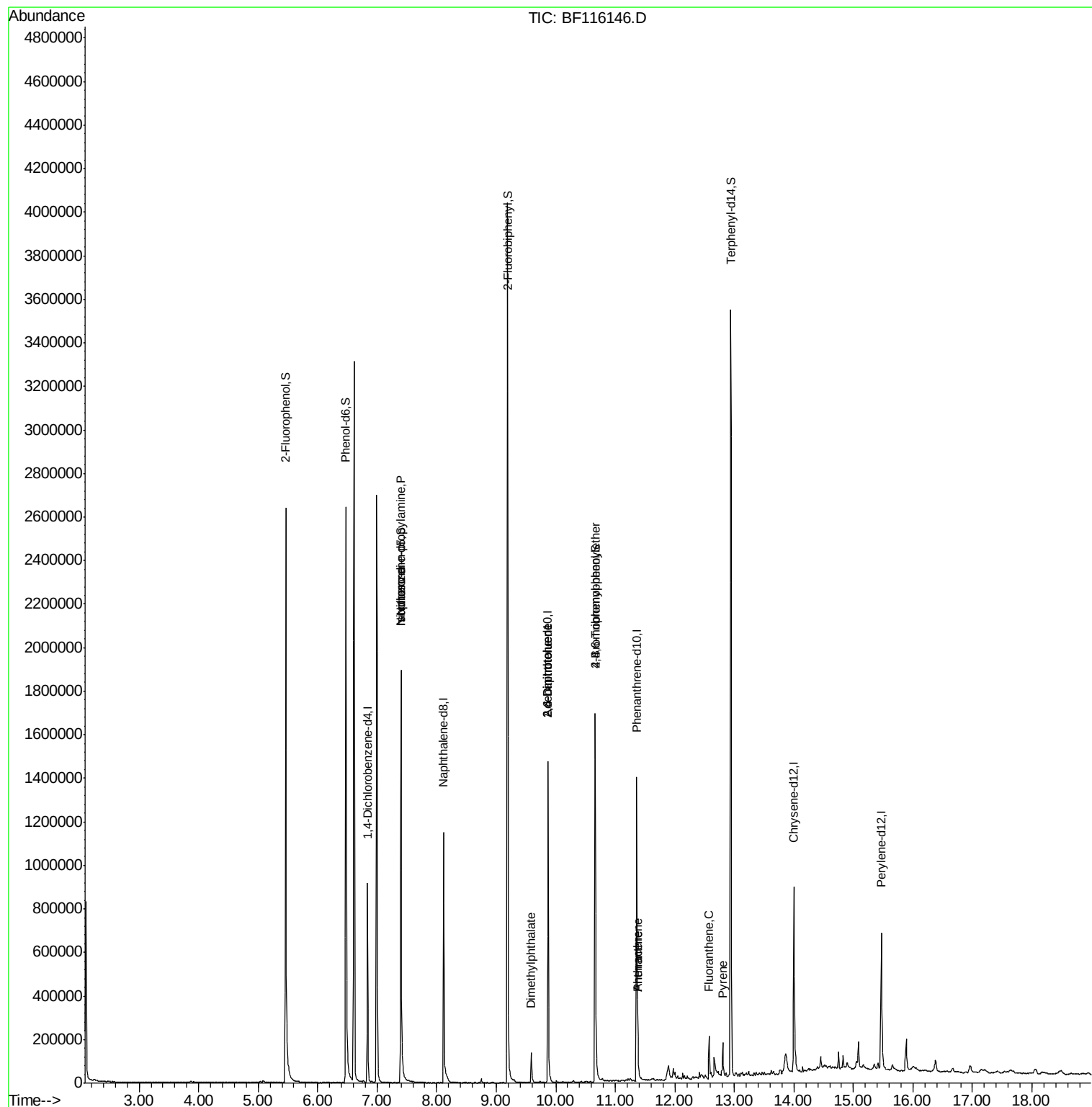
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units | Qvalue |
|--------------------------------|-------|------|----------|--------|-------|--------|
| 19) n-Nitroso-di-n-propylamine | 7.40  | 70   | 96113    | 13.565 | ng    | # 80   |
| 25) Isophorone                 | 7.40  | 82   | 735682   | 36.526 | ng    | # 65   |
| 50) Dimethylphthalate          | 9.59  | 163  | 78285    | 3.523  | ng    | 99     |
| 51) 2,6-Dinitrotoluene         | 9.87  | 165  | 41740    | 8.643  | ng    | # 29   |
| 57) 2,4-Dinitrotoluene         | 9.87  | 165  | 41741    | 6.492  | ng    | # 20   |
| 67) 4-Bromophenyl-phenylether  | 10.66 | 248  | 15017    | 2.580  | ng    | # 1    |
| 71) Phenanthrene               | 11.38 | 178  | 57784    | 2.079  | ng    | 98     |
| 72) Anthracene                 | 11.38 | 178  | 57784    | 2.054  | ng    | 99     |
| 75) Fluoranthene               | 12.57 | 202  | 78614    | 2.702  | ng    | 99     |
| 78) Pyrene                     | 12.80 | 202  | 65671    | 2.738  | ng    | 99     |

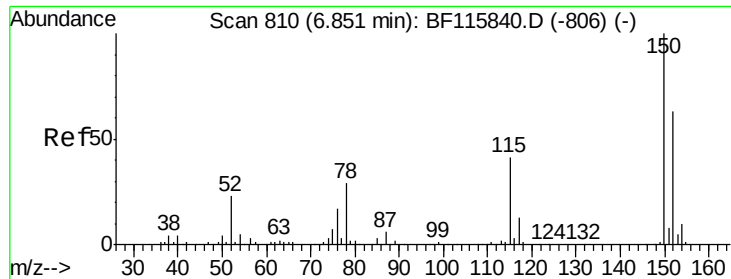
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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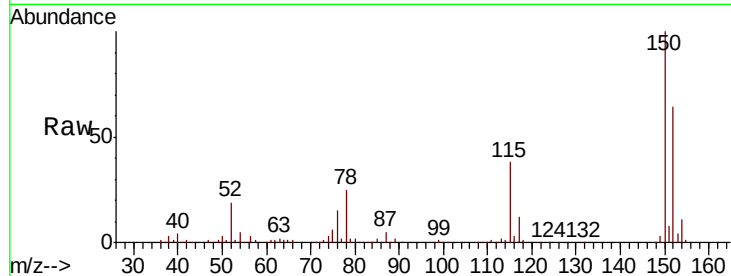


#1

1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.84 min Scan# 808  
 Delta R.T. -0.01 min  
 Lab File: BF116146.D  
 Acq: 10 Aug 2019 13:09

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.9 | 126.2 | 189.2 |
| 115     | 58.6  | 49.9  | 74.9  |

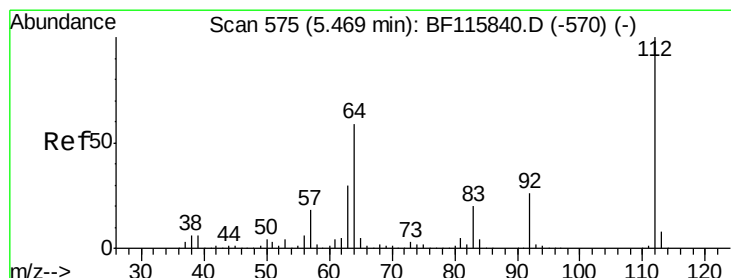
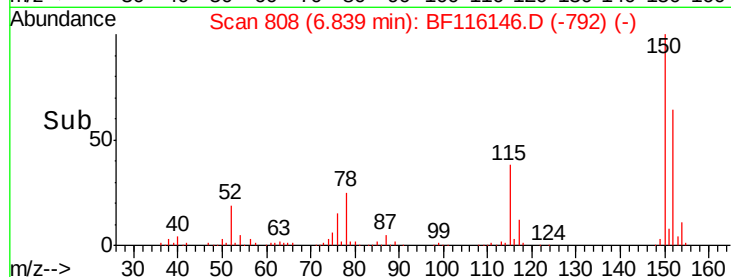
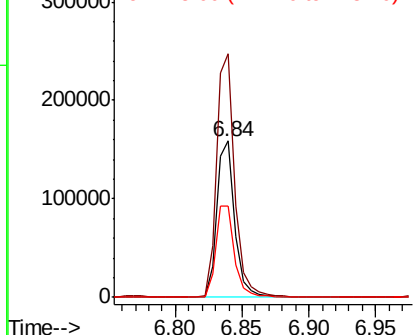


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

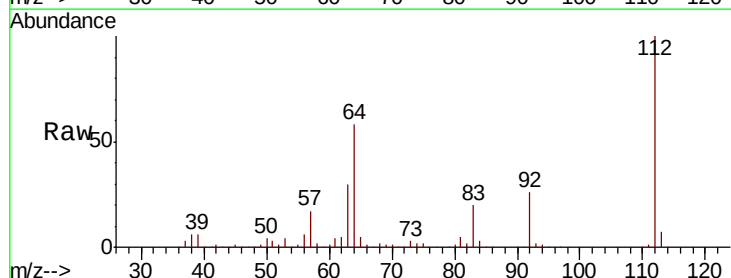
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
 Concen: 93.873 ng  
 RT: 5.46 min Scan# 574  
 Delta R.T. -0.01 min  
 Lab File: BF116146.D  
 Acq: 10 Aug 2019 13:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.8  | 45.4  | 68.2  |
| 63      | 29.6  | 23.7  | 35.5  |

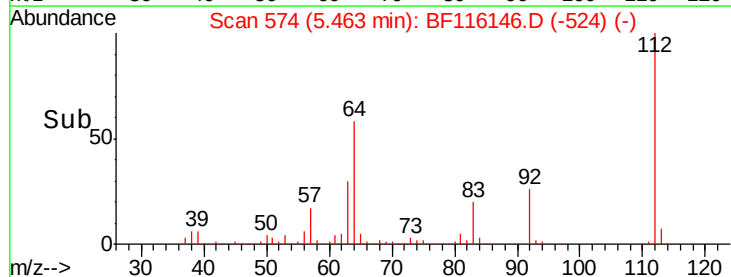
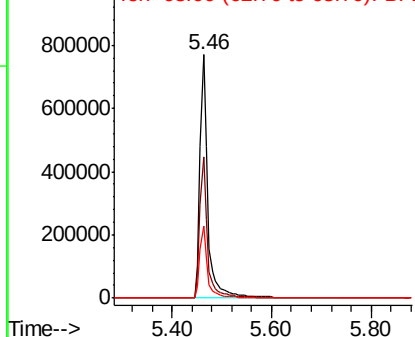


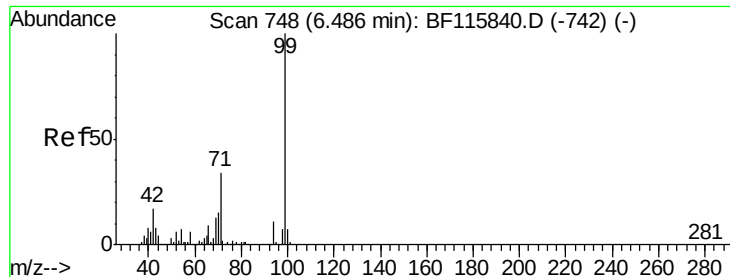
Abundance

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: 97.824 ng

RT: 6.47 min Scan# 746

Delta R.T. -0.01 min

Lab File: BF116146.D

Acq: 10 Aug 2019 13:09

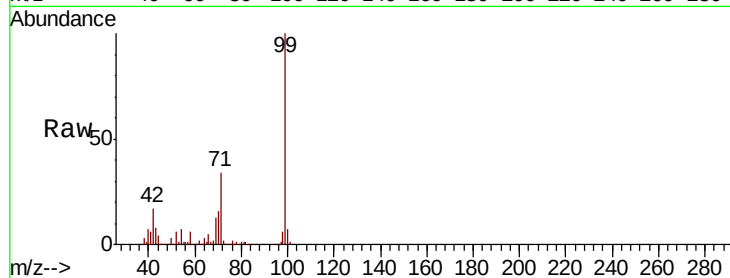
Instrument :

BNA\_F

ClientSampleId :

Tot Ion: 99 Resp: 1118506

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 17.2  | 13.8  | 20.8  |
| 71  | 34.1  | 27.3  | 40.9  |

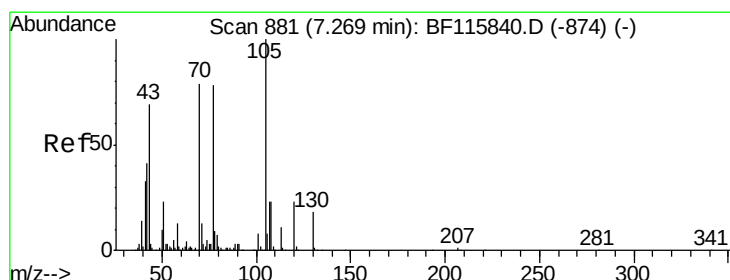
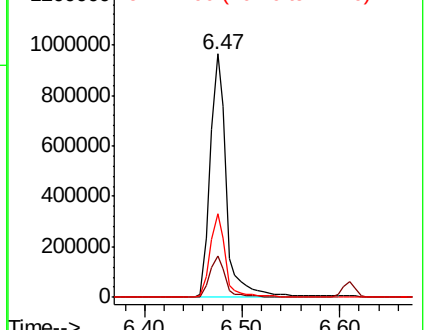
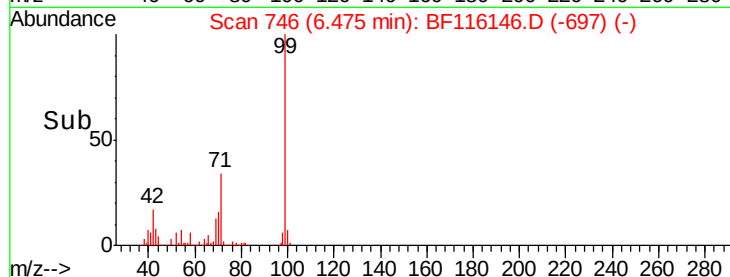


Abundance

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: 13.565 ng

RT: 7.40 min Scan# 903

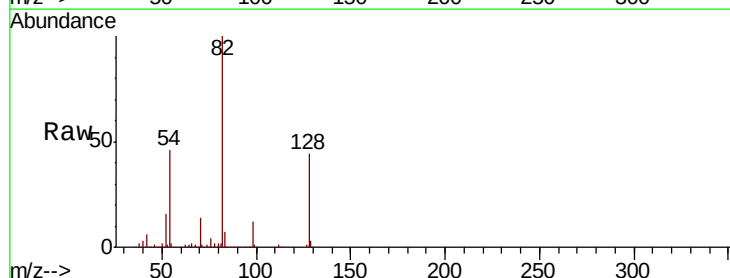
Delta R.T. 0.13 min

Lab File: BF116146.D

Acq: 10 Aug 2019 13:09

Tgt Ion: 70 Resp: 96113

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 70  | 100   |       |       |
| 42  | 43.7  | 40.9  | 61.3  |
| 101 | 0.0   | 7.9   | 11.9# |
| 130 | 2.2   | 16.9  | 25.3# |



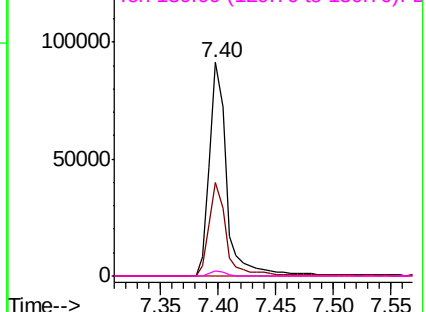
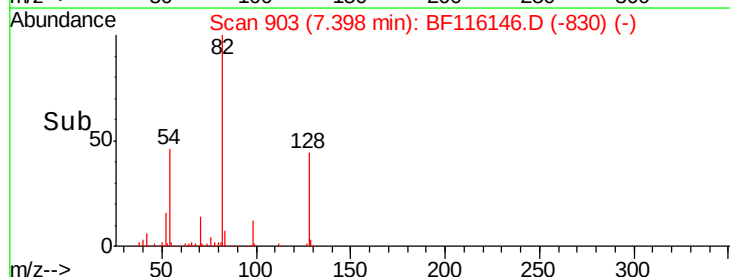
Abundance

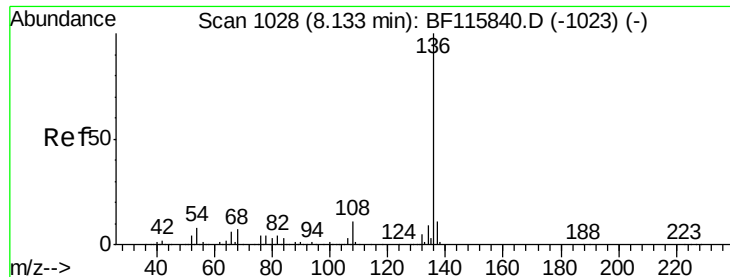
Ion 70.00 (69.70 to 70.70): BF1

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: BF116146.D

Acq: 10 Aug 2019 13:09

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:136 Resp: 608008

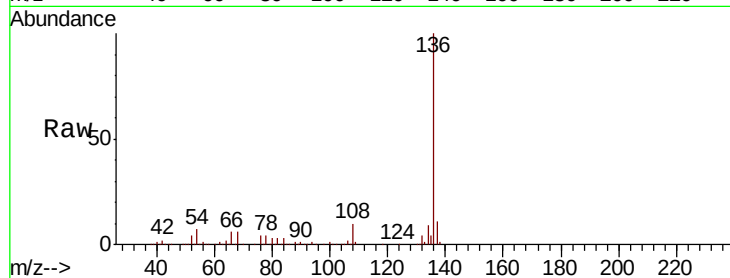
Ion Ratio Lower Upper

136 100

137 11.3 9.0 13.4

54 7.4 5.8 8.6

68 6.3 5.2 7.8

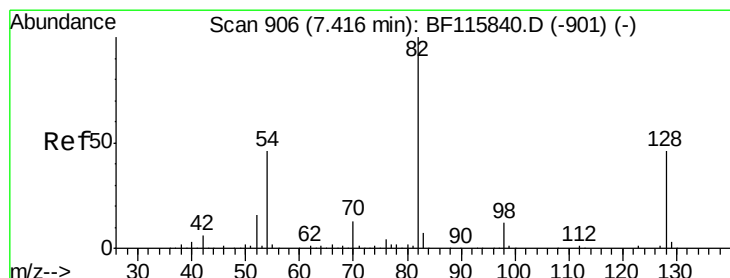
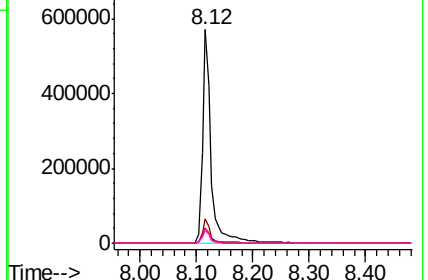
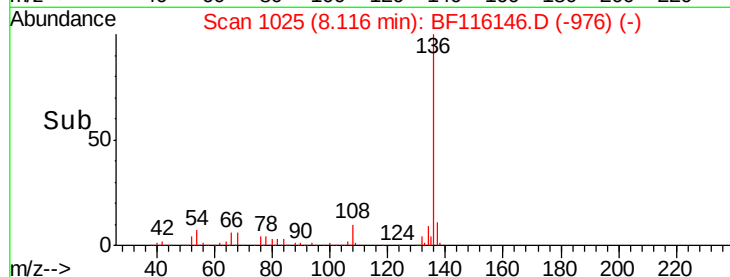


Abundance Ion 136.00 (135.70 to 136.70): E

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: 69.682 ng

RT: 7.40 min Scan# 903

Delta R.T. -0.02 min

Lab File: BF116146.D

Acq: 10 Aug 2019 13:09

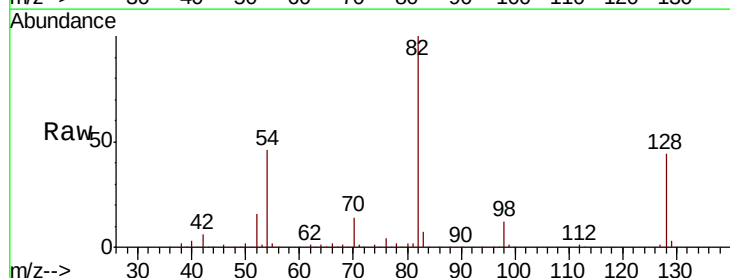
Tgt Ion: 82 Resp: 733973

Ion Ratio Lower Upper

82 100

128 44.4 36.5 54.7

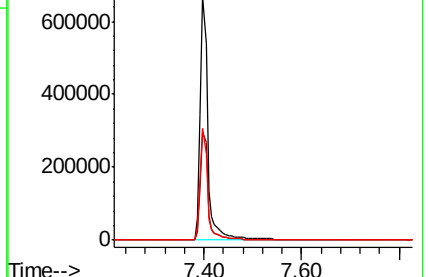
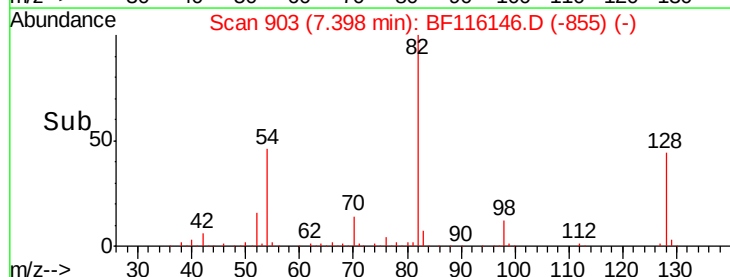
54 45.7 36.0 54.0

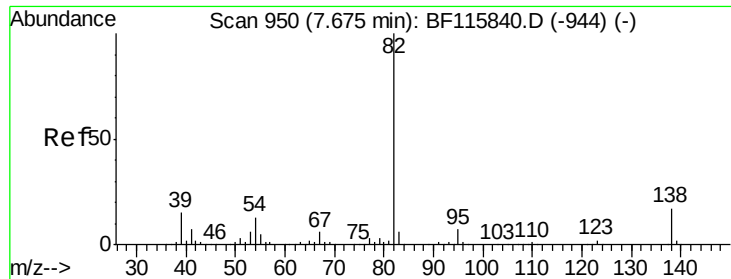


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 36.526 ng

RT: 7.40 min Scan# 903

Delta R.T. -0.28 min

Lab File: BF116146.D

Acq: 10 Aug 2019 13:09

Instrument :

BNA\_F

ClientSampleId :

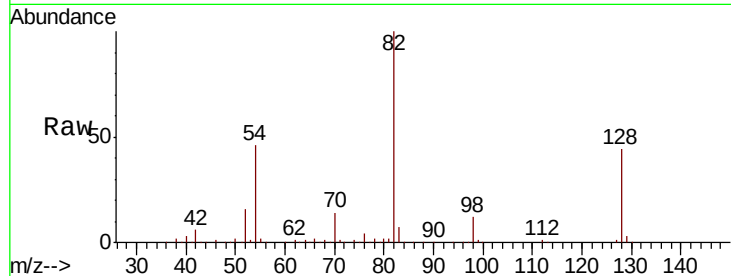
Tot Ion: 82 Resp: 735682

Ion Ratio Lower Upper

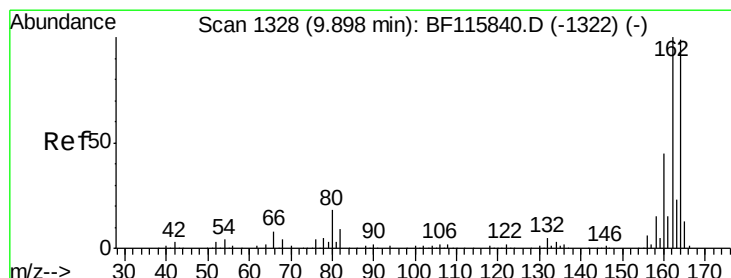
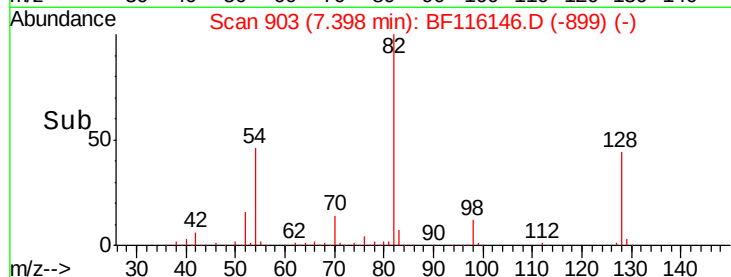
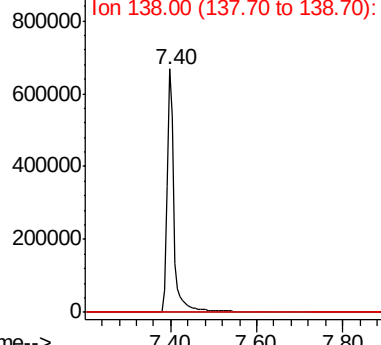
82 100

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: BF116146.D

Acq: 10 Aug 2019 13:09

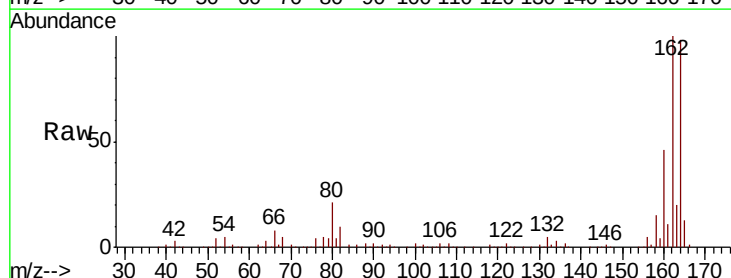
Tgt Ion: 164 Resp: 326361

Ion Ratio Lower Upper

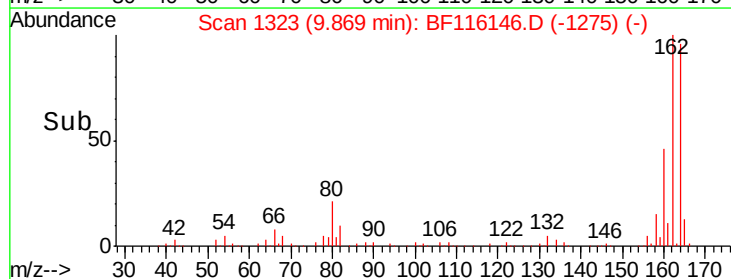
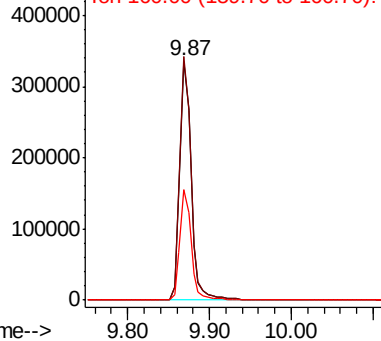
164 100

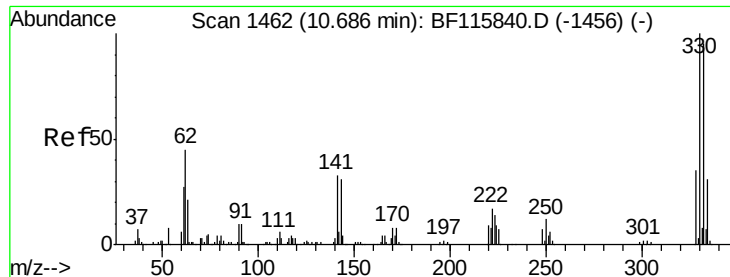
162 102.0 82.6 124.0

160 46.5 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: 78.434 ng

RT: 10.66 min Scan# 1458

Delta R.T. -0.01 min

Lab File: BF116146.D

Acq: 10 Aug 2019 13:09

Instrument :

BNA\_F

ClientSampleId :

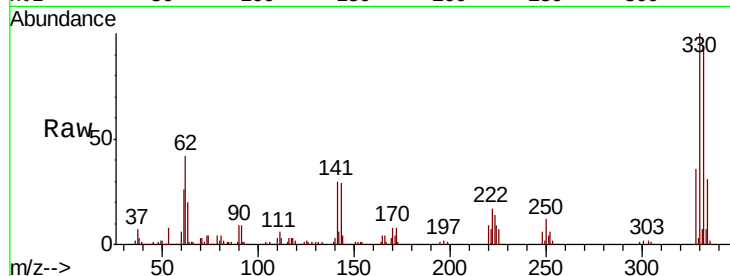
Tot Ion:330 Resp: 248179

Ion Ratio Lower Upper

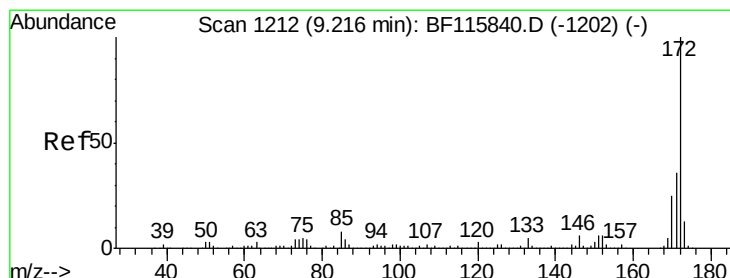
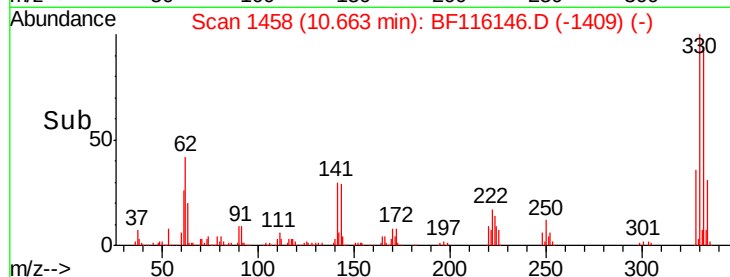
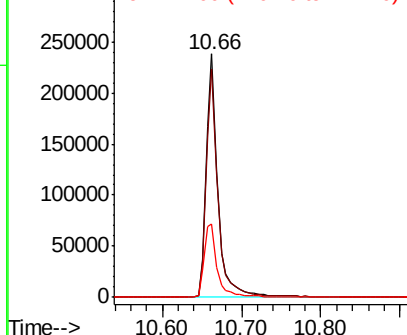
330 100

332 94.8 76.8 115.2

141 34.7 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: 75.913 ng

RT: 9.19 min Scan# 1208

Delta R.T. -0.01 min

Lab File: BF116146.D

Acq: 10 Aug 2019 13:09

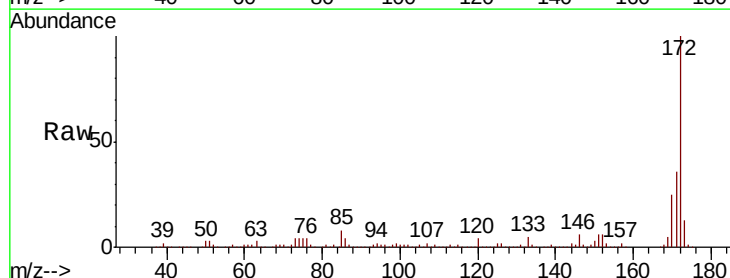
Tgt Ion:172 Resp: 1322689

Ion Ratio Lower Upper

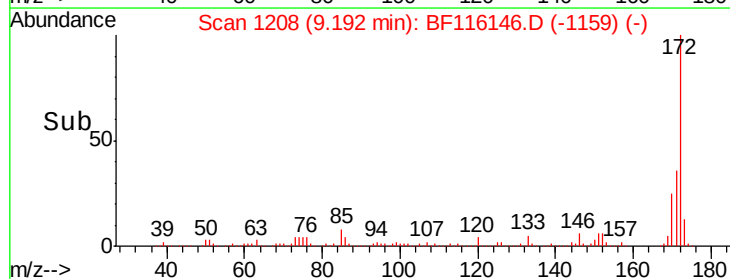
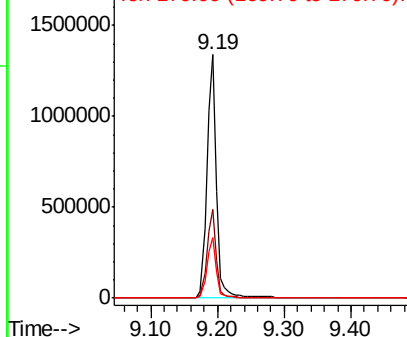
172 100

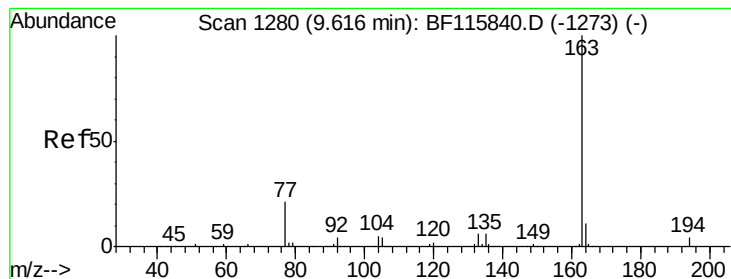
171 36.4 29.6 44.4

170 25.1 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





#50

Dimethylphthalate

Concen: 3.523 ng

RT: 9.59 min Scan# 1275

Delta R.T. -0.02 min

Lab File: BF116146.D

Acq: 10 Aug 2019 13:09

Instrument :

BNA\_F

ClientSampleId :

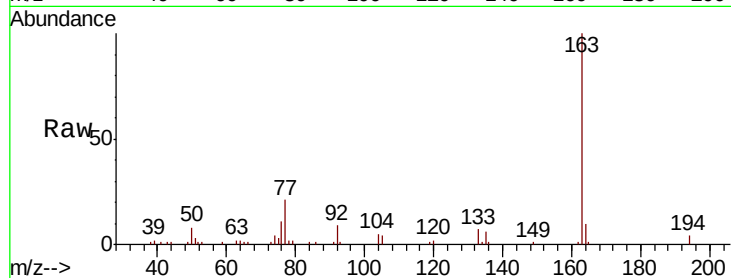
Tot Ion:163 Resp: 78285

Ion Ratio Lower Upper

163 100

194 3.7 3.0 4.6

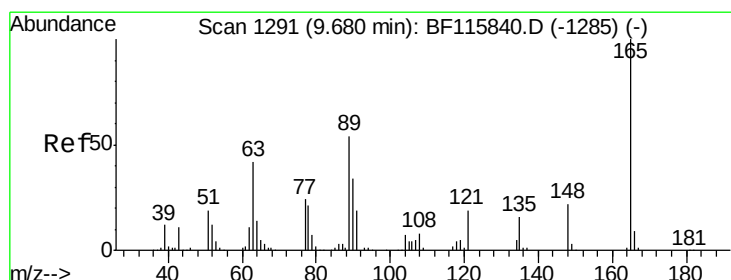
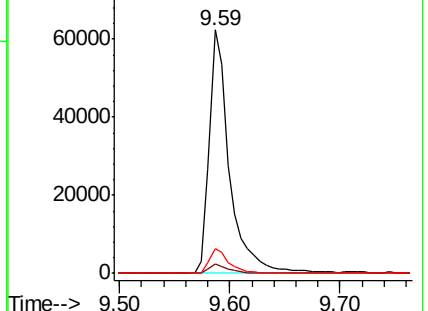
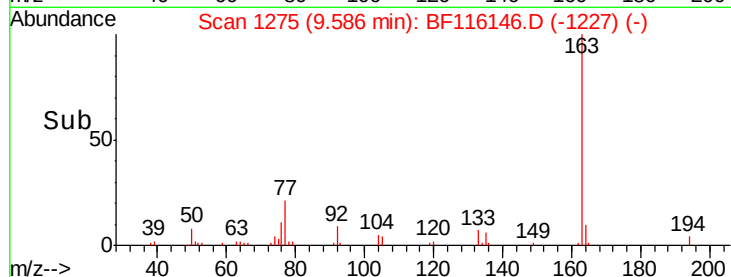
164 10.0 8.4 12.6



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: 8.643 ng

RT: 9.87 min Scan# 1323

Delta R.T. 0.19 min

Lab File: BF116146.D

Acq: 10 Aug 2019 13:09

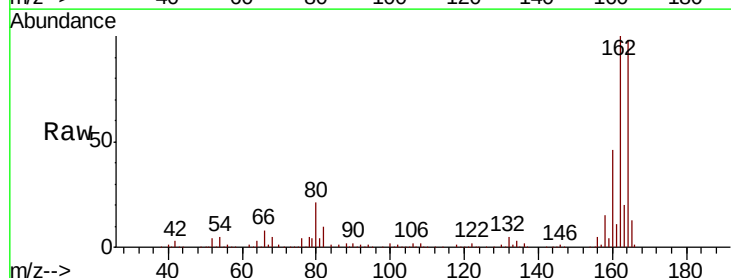
Tgt Ion:165 Resp: 41740

Ion Ratio Lower Upper

165 100

63 1.0 38.2 57.2#

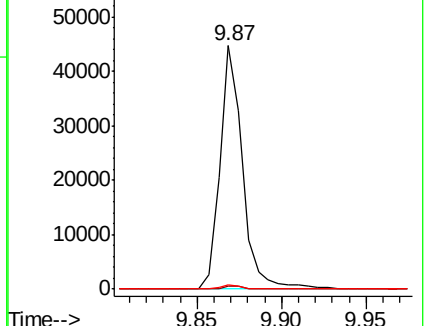
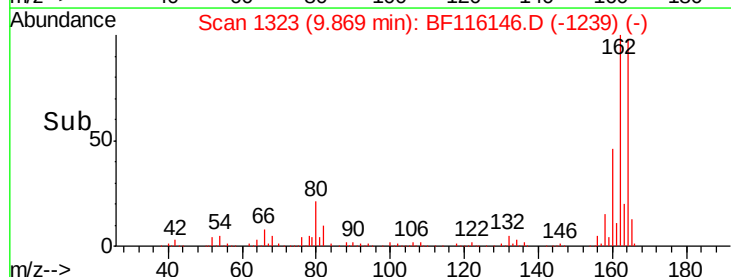
89 1.5 42.9 64.3#



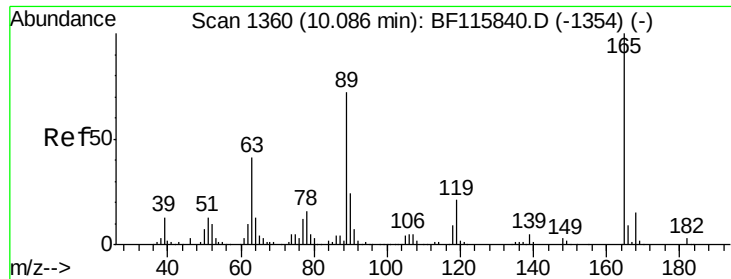
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1



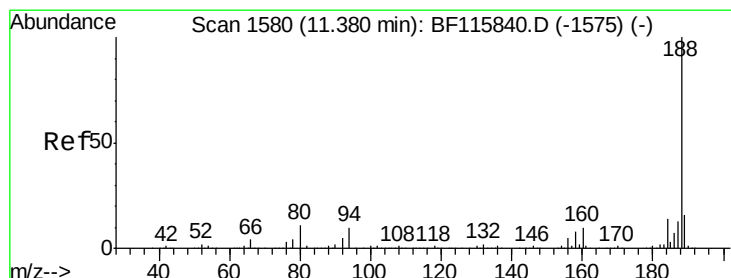
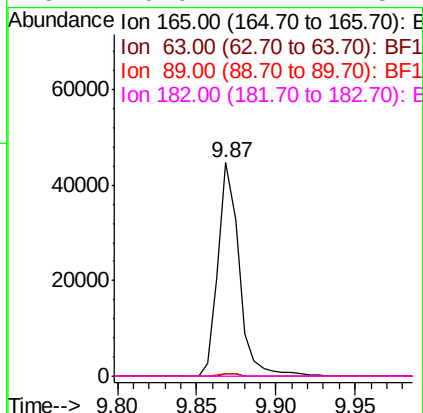
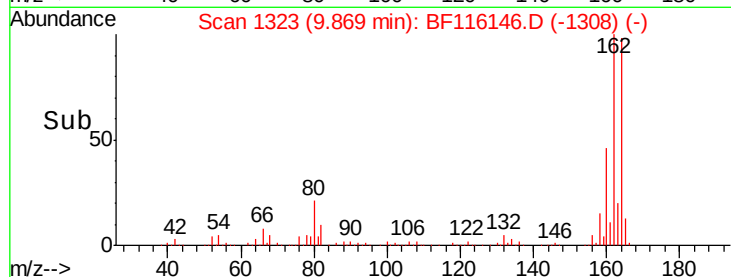
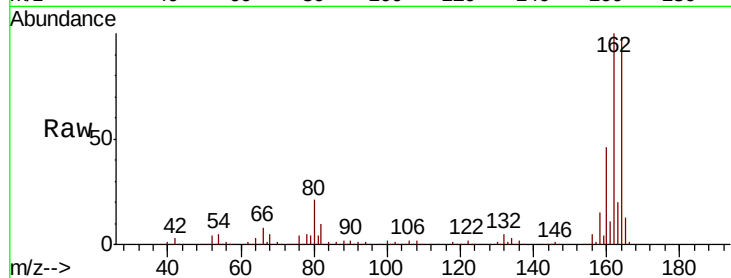




#57  
 2,4-Dinitrotoluene  
 Concen: 6.492 ng  
 RT: 9.87 min Scan# 1323  
 Delta R.T. -0.21 min  
 Lab File: BF116146.D  
 Acq: 10 Aug 2019 13:09

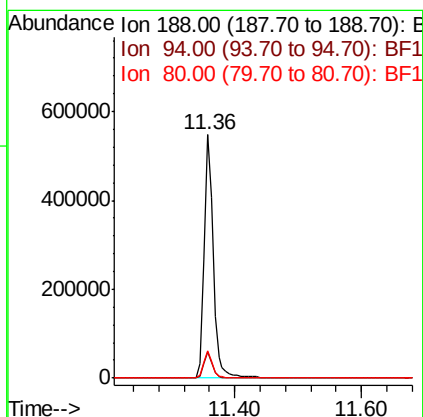
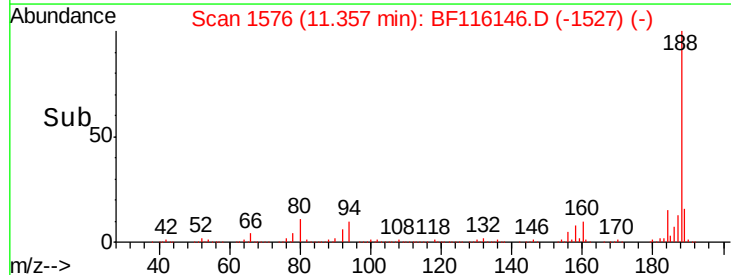
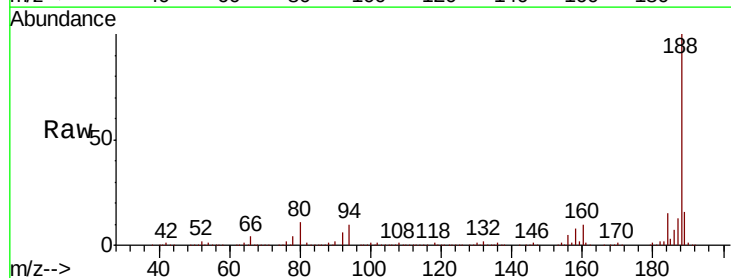
Instrument :  
 BNA\_F  
 ClientSampleId :

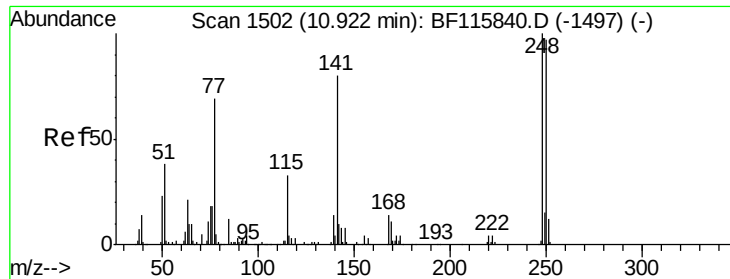
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 165     | 100   |       |       |
| 63      | 1.0   | 39.6  | 59.4# |
| 89      | 1.5   | 62.2  | 93.2# |
| 182     | 0.0   | 2.1   | 3.1#  |



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.36 min Scan# 1576  
 Delta R.T. -0.01 min  
 Lab File: BF116146.D  
 Acq: 10 Aug 2019 13:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 10.5  | 8.1   | 12.1  |
| 80      | 11.1  | 8.7   | 13.1  |

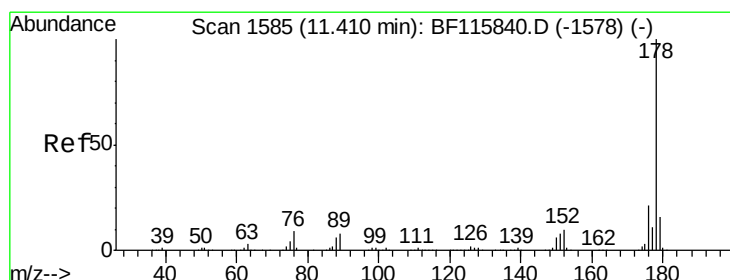
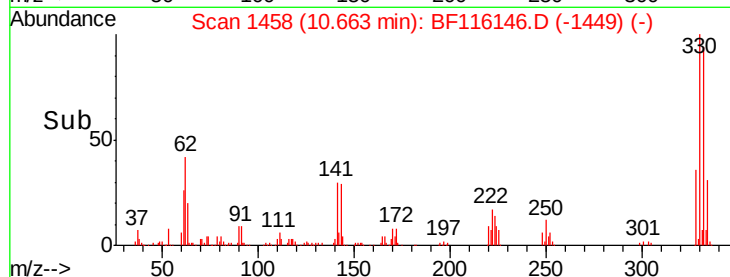
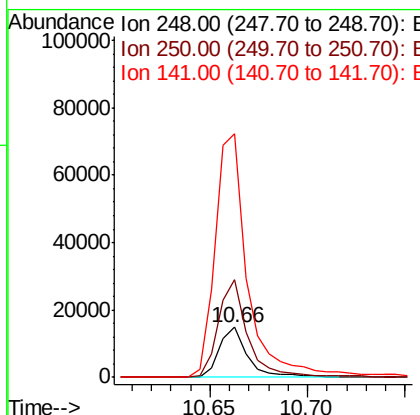
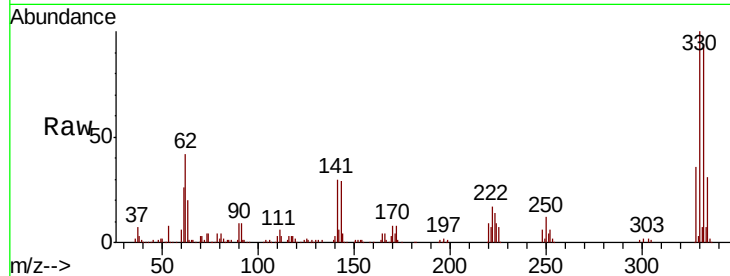




#67  
 4-Bromophenyl-phenylether  
 Concen: 2.580 ng  
 RT: 10.66 min Scan# 1458  
 Delta R.T. -0.25 min  
 Lab File: BF116146.D  
 Acq: 10 Aug 2019 13:09

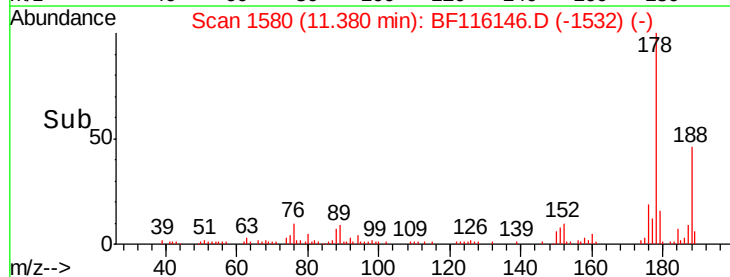
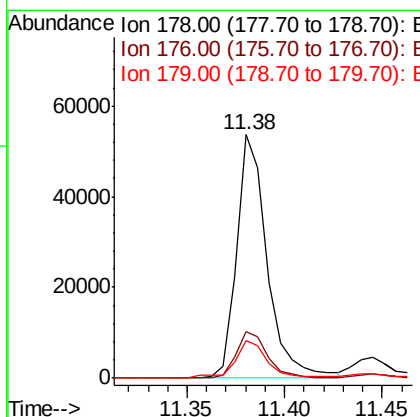
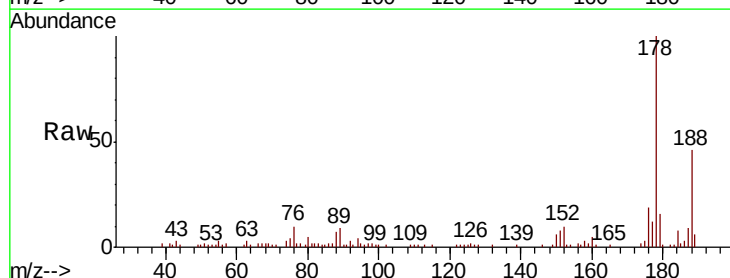
Instrument :  
 BNA\_F  
 ClientSampled :

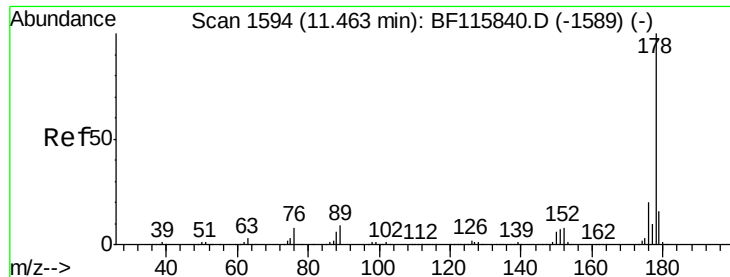
| Tot Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 248     | 100   |       |        |
| 250     | 193.8 | 77.4  | 116.2# |
| 141     | 484.6 | 56.8  | 85.2#  |



#71  
 Phenanthrene  
 Concen: 2.079 ng  
 RT: 11.38 min Scan# 1580  
 Delta R.T. -0.02 min  
 Lab File: BF116146.D  
 Acq: 10 Aug 2019 13:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.9  | 16.6  | 24.8  |
| 179     | 15.7  | 12.5  | 18.7  |





#72

Anthracene

Concen: 2.054 ng

RT: 11.38 min Scan# 1580

Delta R.T. -0.06 min

Lab File: BF116146.D

Acq: 10 Aug 2019 13:09

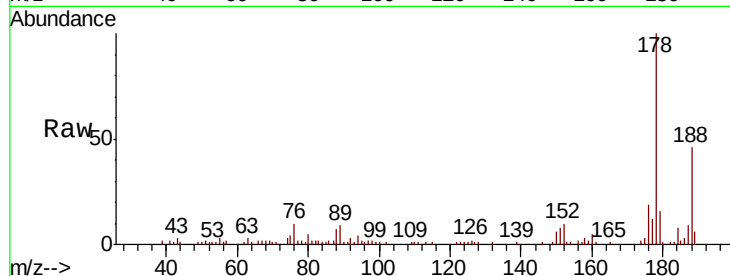
Instrument :

BNA\_F

ClientSampleId :

Tot Ion:178 Resp: 57784

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 18.9  | 15.7  | 23.5  |
| 179 | 15.7  | 13.0  | 19.6  |

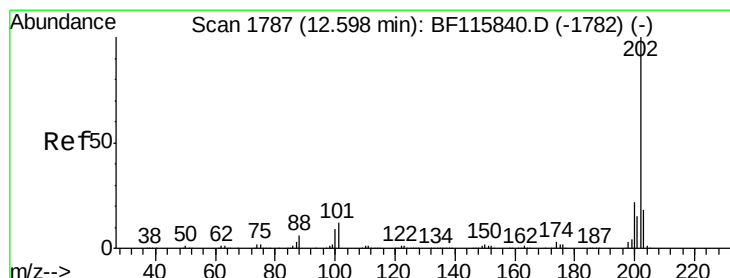
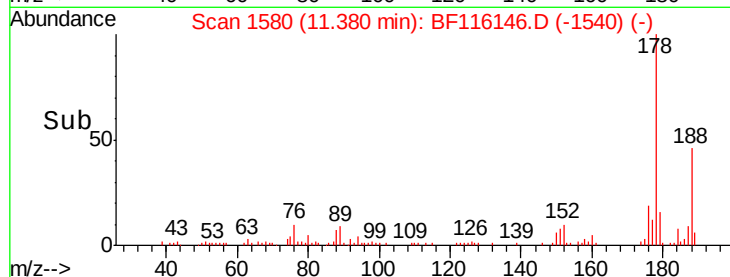
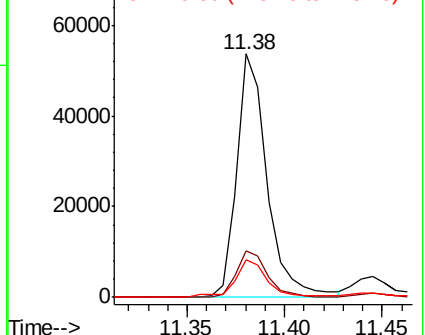


Abundance

Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#75

Fluoranthene

Concen: 2.702 ng

RT: 12.57 min Scan# 1783

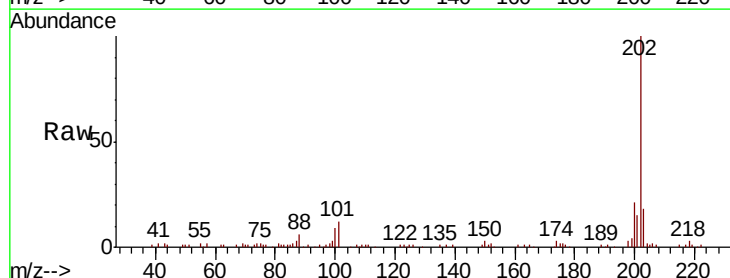
Delta R.T. -0.01 min

Lab File: BF116146.D

Acq: 10 Aug 2019 13:09

Tgt Ion:202 Resp: 78614

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 101 | 12.1  | 0.0   | 31.2  |
| 203 | 18.2  | 0.0   | 37.8  |

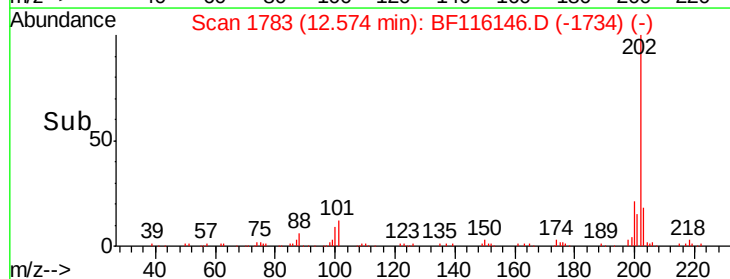
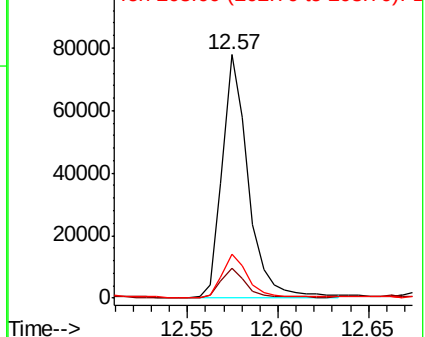


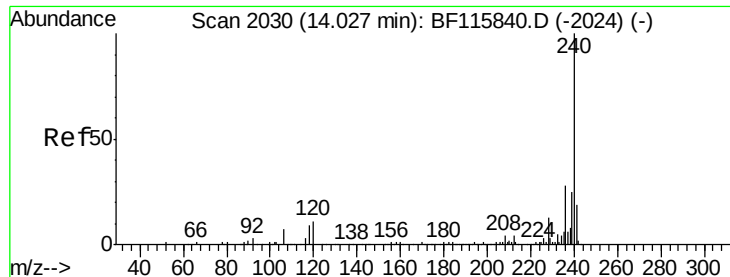
Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

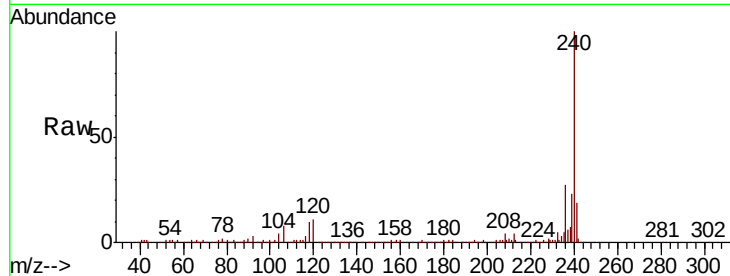




#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.00 min Scan# 2026  
Delta R.T. -0.01 min  
Lab File: BF116146.D  
Acq: 10 Aug 2019 13:09

Instrument :  
BNA\_F  
ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 11.0  | 10.7  | 16.1  |
| 236     | 27.3  | 22.2  | 33.2  |

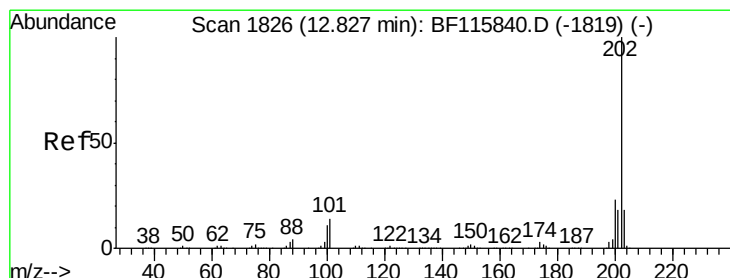
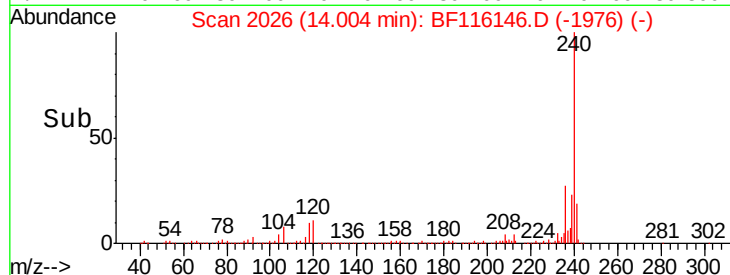
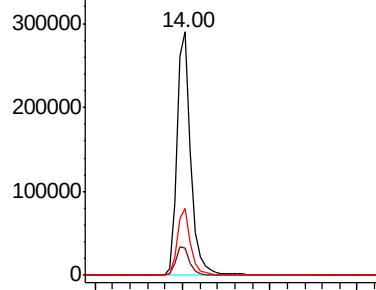


Abundance

Ion 240.00 (239.70 to 240.70): E

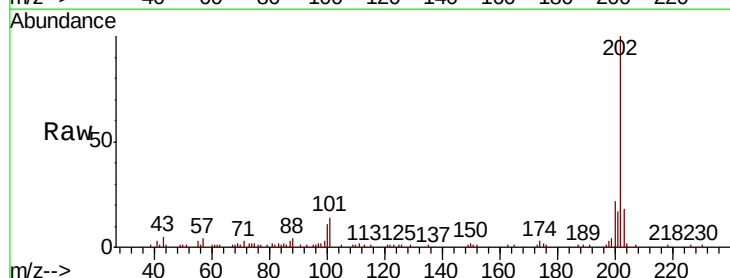
Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#78  
Pyrene  
Concen: 2.738 ng  
RT: 12.80 min Scan# 1822  
Delta R.T. -0.01 min  
Lab File: BF116146.D  
Acq: 10 Aug 2019 13:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 22.0  | 18.0  | 27.0  |
| 203     | 17.7  | 14.1  | 21.1  |

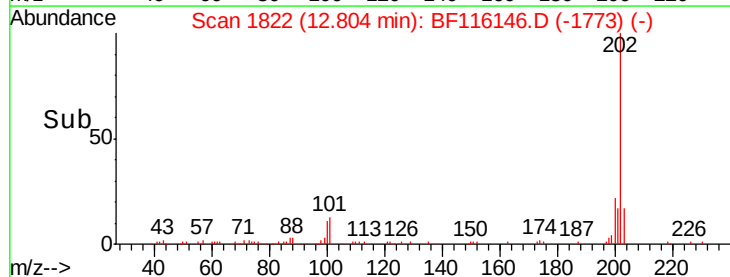
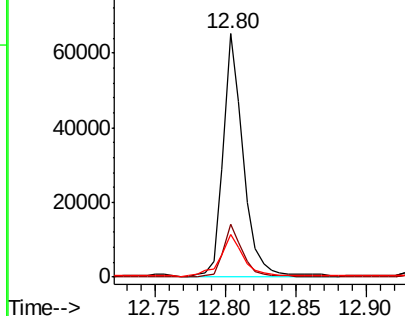


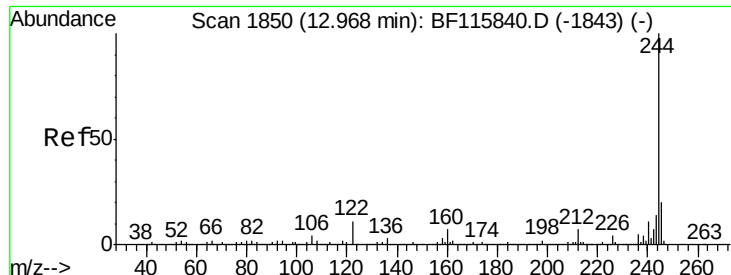
Abundance

Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#79

Terphenyl-d14

Concen: 85.615 ng

RT: 12.94 min Scan# 1845

Delta R.T. -0.01 min

Lab File: BF116146.D

Acq: 10 Aug 2019 13:09

Instrument :

BNA\_F

ClientSampleId :

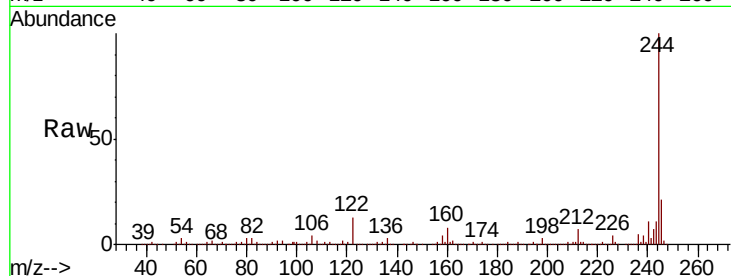
Tot Ion:244 Resp: 1292599

Ion Ratio Lower Upper

244 100

212 7.3 5.8 8.8

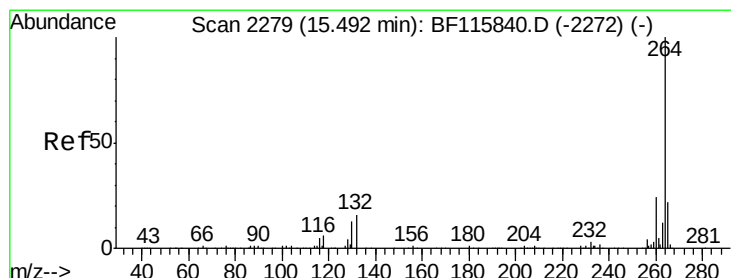
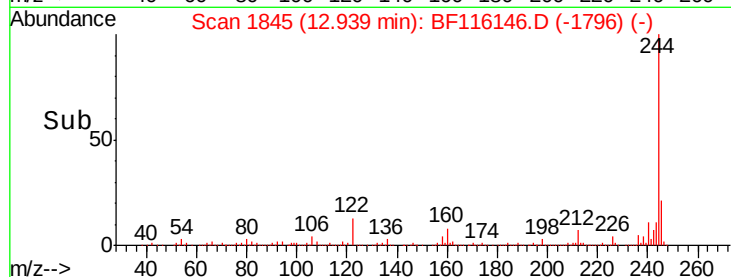
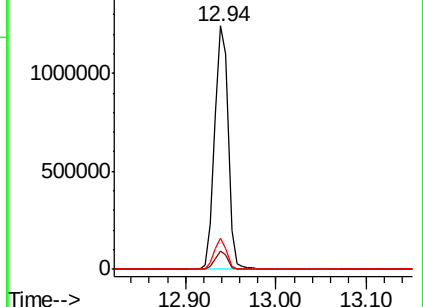
122 12.6 9.0 13.4



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

Perylene-d12

Concen: 20.000 ng

RT: 15.47 min Scan# 2275

Delta R.T. -0.01 min

Lab File: BF116146.D

Acq: 10 Aug 2019 13:09

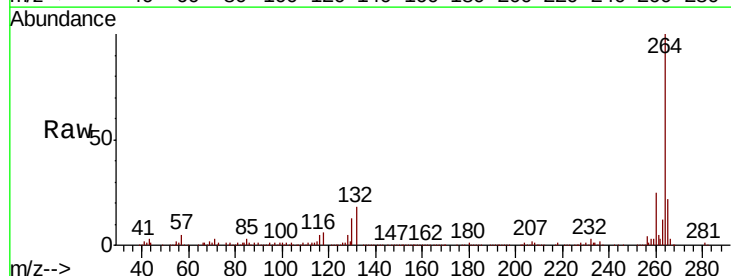
Tgt Ion:264 Resp: 336028

Ion Ratio Lower Upper

264 100

260 24.8 19.7 29.5

265 22.0 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

