

Data Path : \\74.0.250.170\TERASTORAGE\SVOASRV\HPCHEM1\BNA\_F\DATA\BF081618\  
 Data File : BF108206.D  
 Acq On : 16 Aug 2018 20:23  
 Operator : JU/SJ  
 Sample : J4499-03 2X  
 Misc :  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 LSB-03(0-1)

Quant Time: Aug 17 04:05:45 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF080818.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 08 12:24:24 2018  
 Response via : Initial Calibration

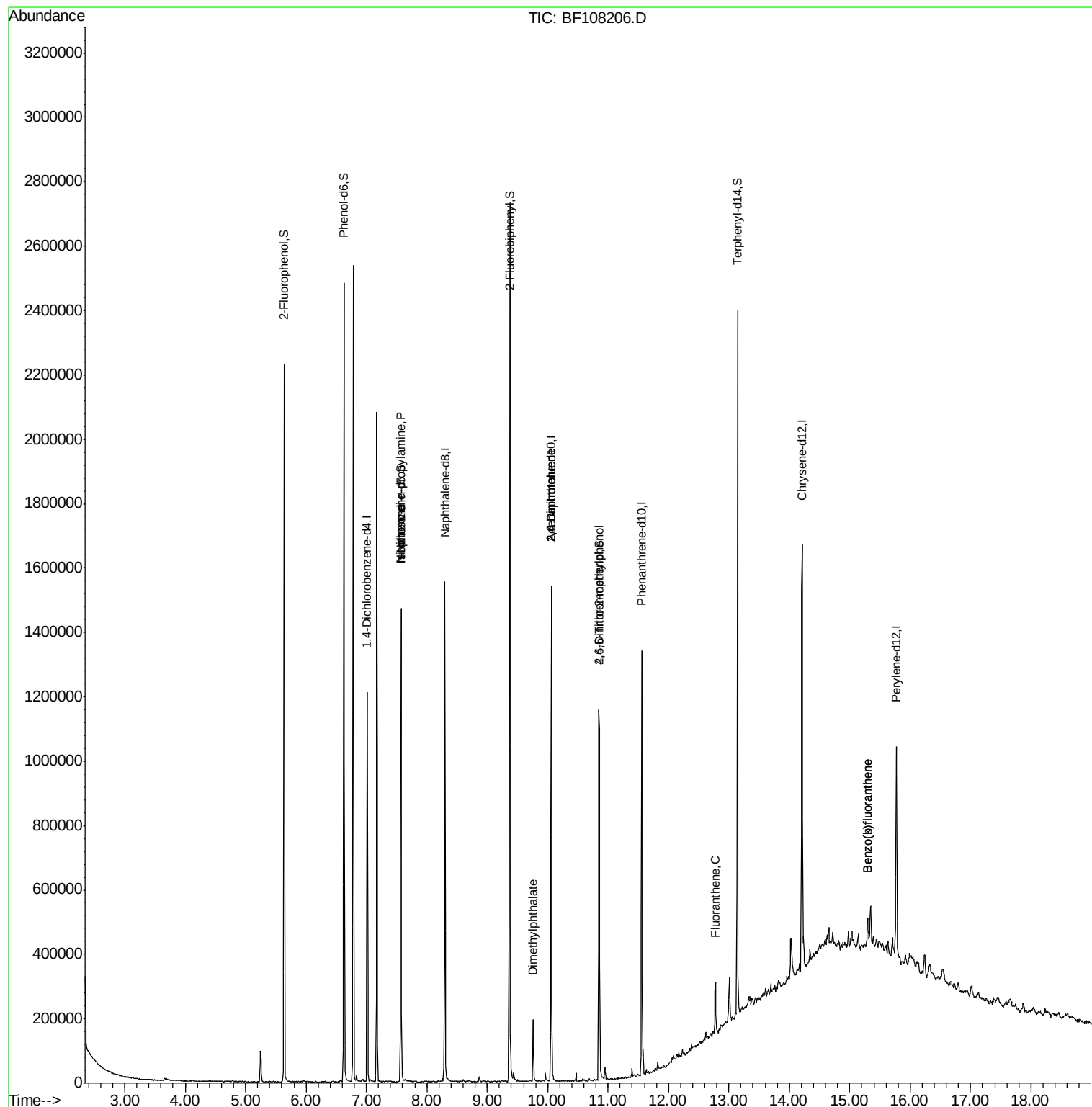
| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.02  | 152  | 178406   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.30  | 136  | 646782   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 10.06 | 164  | 288115   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.55 | 188  | 477655   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 14.21 | 240  | 450650   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 15.77 | 264  | 333591   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.64  | 112  | 530509   | 53.84  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.63  | 99   | 700707   | 53.51  | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.57  | 82   | 454958   | 39.25  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.85 | 330  | 147751   | 51.41  | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.37  | 172  | 817756   | 45.57  | ng    | 0.00     |
| 78) Terphenyl-d14              | 13.14 | 244  | 691437   | 39.01  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 19) n-Nitroso-di-n-propylamine | 7.57  | 70   | 61408    | 6.935  | ng    | # 85     |
| 25) Isophorone                 | 7.57  | 82   | 453062   | 20.508 | ng    | # 64     |
| 49) Dimethylphthalate          | 9.76  | 163  | 72932    | 3.634  | ng    | # 98     |
| 50) 2,6-Dinitrotoluene         | 10.06 | 165  | 36051    | 8.586  | ng    | # 25     |
| 56) 2,4-Dinitrotoluene         | 10.06 | 165  | 36051    | 6.670  | ng    | # 23     |
| 64) 4,6-Dinitro-2-methylphenol | 10.85 | 198  | 142      | 5.429  | ng    | # 1      |
| 74) Fluoranthene               | 12.78 | 202  | 61359    | 2.495  | ng    | 94       |
| 87) Benzo(b)fluoranthene       | 15.30 | 252  | 49585    | 2.488  | ng    | # 81     |
| 88) Benzo(k)fluoranthene       | 15.30 | 252  | 49585    | 2.706  | ng    | # 84     |

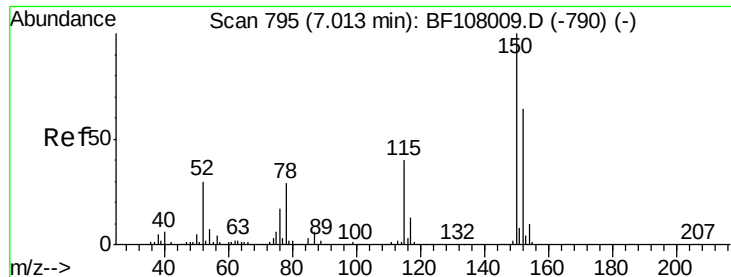
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : \\74.0.250.170\TERASTORAGE\SVOASRV\HPCHEM1\BNA\_F\DATA\BF081618\  
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Sample : J4499-03 2X  
Misc :  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
LSB-03(0-1)

Quant Time: Aug 17 04:05:45 2018  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 08 12:24:24 2018  
Response via : Initial Calibration



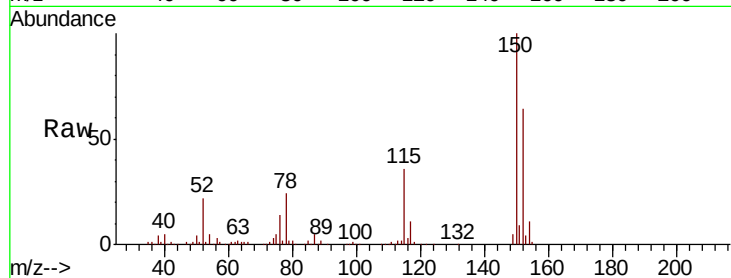


#1

1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.02 min Scan# 796  
Delta R.T. 0.01 min  
Lab File: BF108206.D  
Acq: 16 Aug 2018 20:23

Instrument :  
BNA\_F  
ClientSampleId :  
LSB-03(0-1)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.2 | 124.6 | 186.8 |
| 115     | 56.1  | 50.1  | 75.1  |

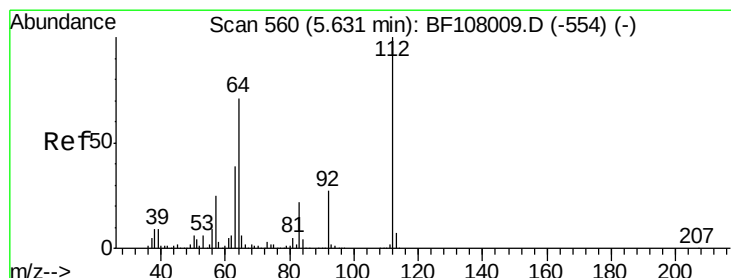
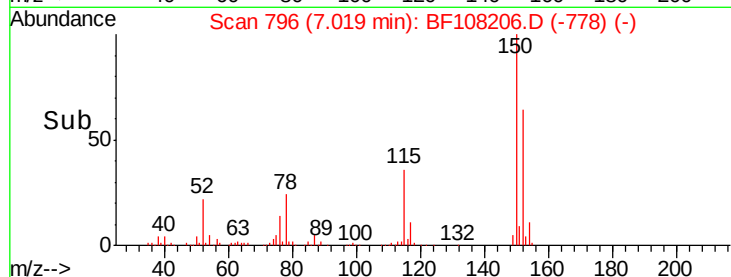
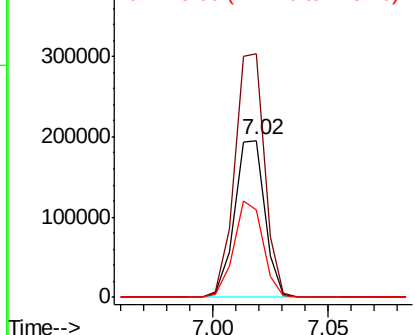


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

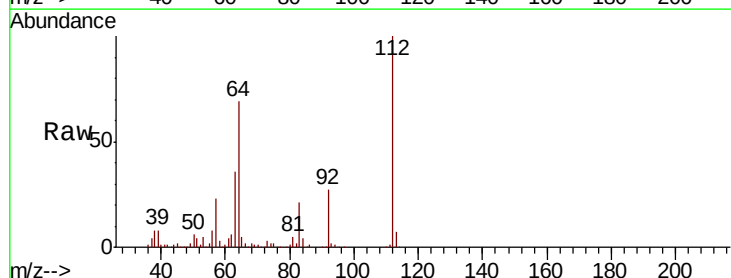
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 53.836 ng  
RT: 5.64 min Scan# 561  
Delta R.T. 0.01 min  
Lab File: BF108206.D  
Acq: 16 Aug 2018 20:23

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 69.2  | 47.9  | 71.9  |
| 63      | 36.4  | 23.7  | 35.5# |

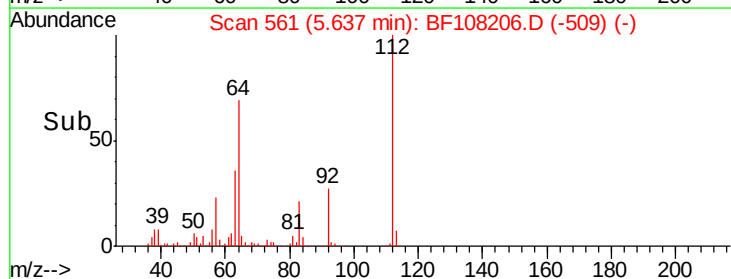
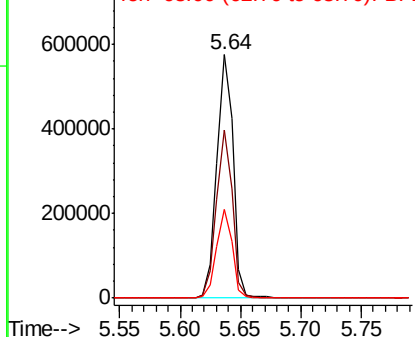


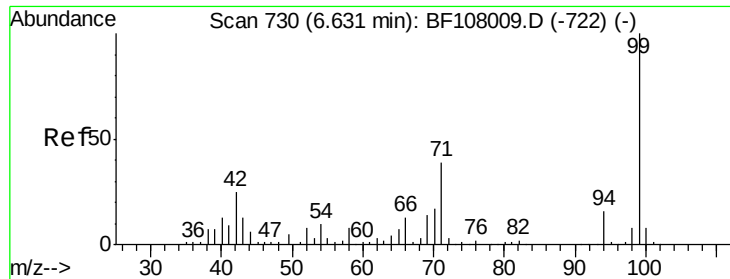
Abundance

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: 53.510 ng

RT: 6.63 min Scan# 730

Delta R.T. 0.00 min

Lab File: BF108206.D

Acq: 16 Aug 2018 20:23

Instrument :

BNA\_F

ClientSampleId :

LSB-03(0-1)

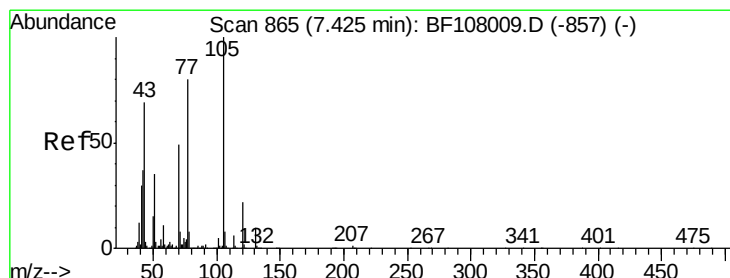
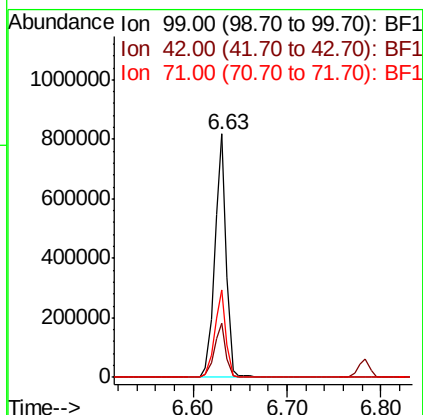
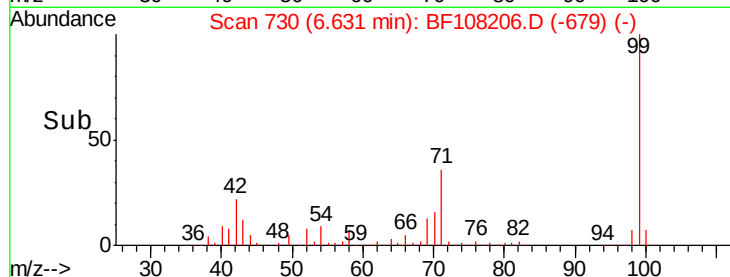
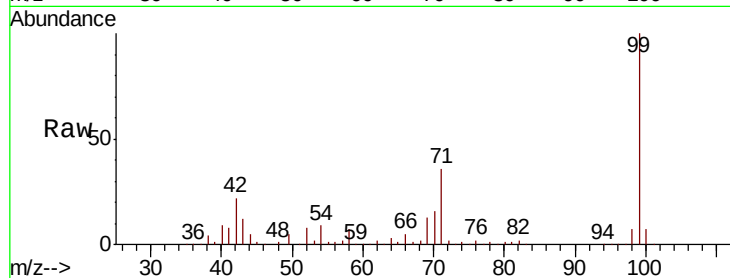
Tgt Ion: 99 Resp: 700707

Ion Ratio Lower Upper

99 100

42 22.4 14.5 21.7#

71 36.2 25.4 38.0



#19

n-Nitroso-di-n-propylamine

Concen: 6.935 ng

RT: 7.57 min Scan# 890

Delta R.T. 0.15 min

Lab File: BF108206.D

Acq: 16 Aug 2018 20:23

Tgt Ion: 70 Resp: 61408

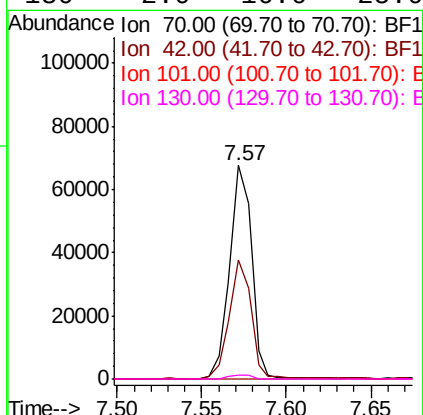
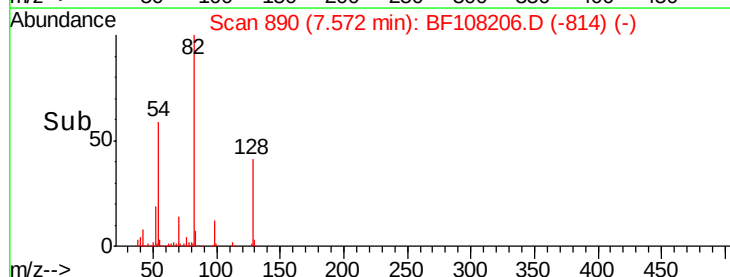
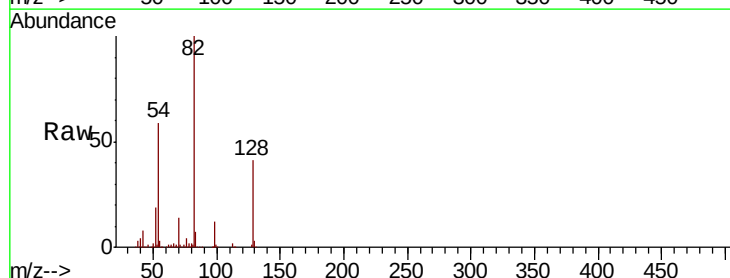
Ion Ratio Lower Upper

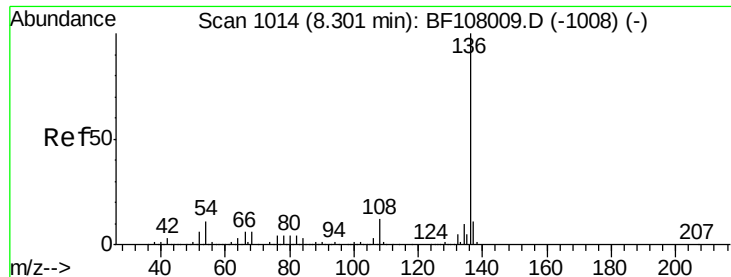
70 100

42 55.9 47.5 71.3

101 0.0 7.4 11.2#

130 2.0 16.6 25.0#

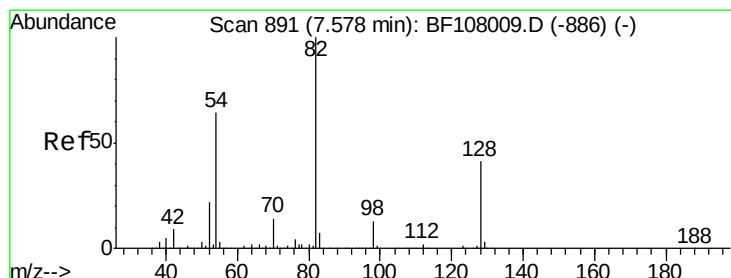
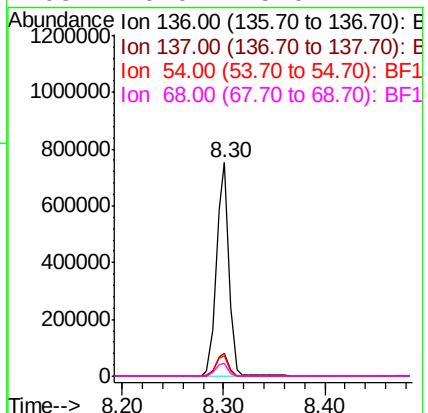
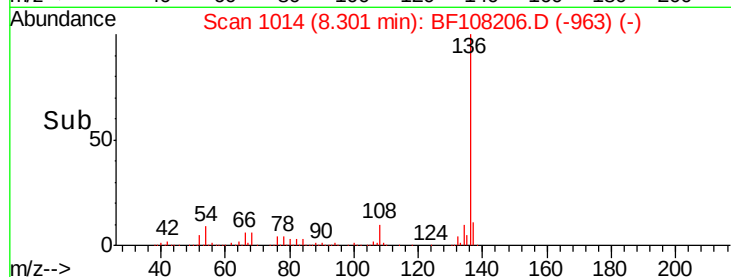
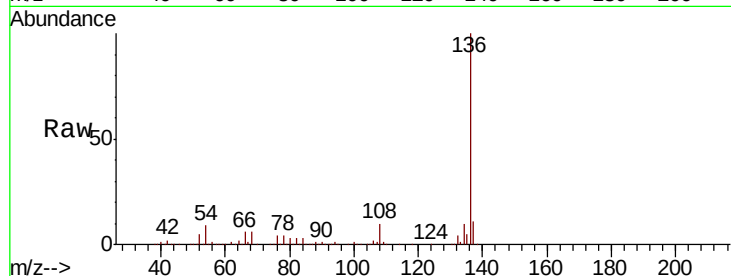




#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.30 min Scan# 1014  
Delta R.T. 0.00 min  
Lab File: BF108206.D  
Acq: 16 Aug 2018 20:23

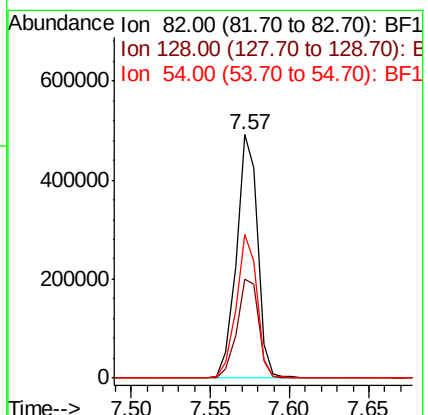
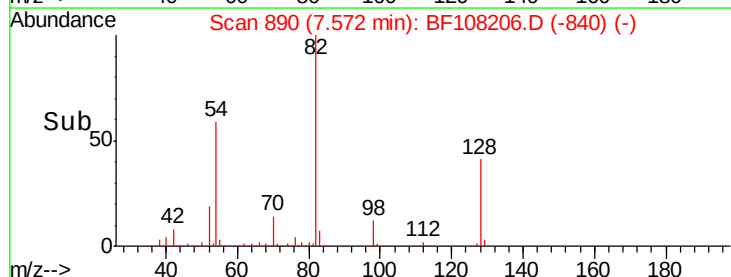
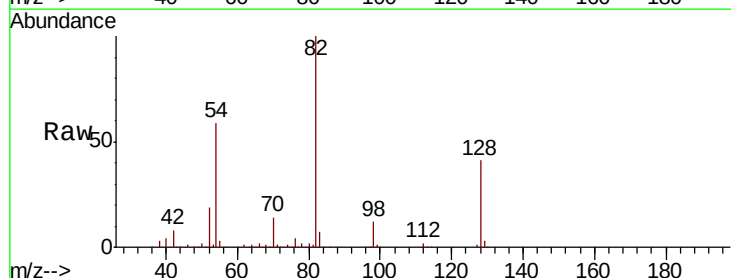
Instrument :  
BNA\_F  
ClientSampleId :  
LSB-03(0-1)

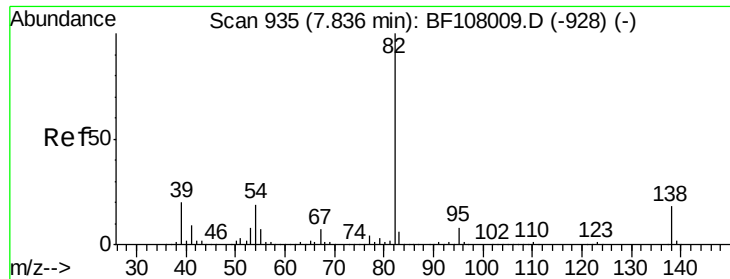
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 136   | Resp: | 646782 |
| Ion      | Ratio | Lower | Upper  |
| 136      | 100   |       |        |
| 137      | 10.9  | 8.9   | 13.3   |
| 54       | 9.5   | 6.6   | 9.8    |
| 68       | 6.0   | 5.0   | 7.4    |



#23  
Nitrobenzene-d5  
Concen: 39.252 ng  
RT: 7.57 min Scan# 890  
Delta R.T. -0.01 min  
Lab File: BF108206.D  
Acq: 16 Aug 2018 20:23

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 82    | Resp: | 454958 |
| Ion      | Ratio | Lower | Upper  |
| 82       | 100   |       |        |
| 128      | 40.5  | 36.1  | 54.1   |
| 54       | 59.0  | 41.4  | 62.2   |





#25

Isophorone

Concen: 20.508 ng

RT: 7.57 min Scan# 890

Delta R.T. -0.26 min

Lab File: BF108206.D

Acq: 16 Aug 2018 20:23

Instrument :

BNA\_F

ClientSampleId :

LSB-03(0-1)

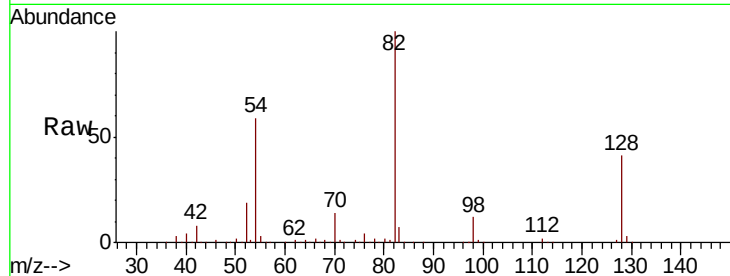
Tgt Ion: 82 Resp: 453062

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

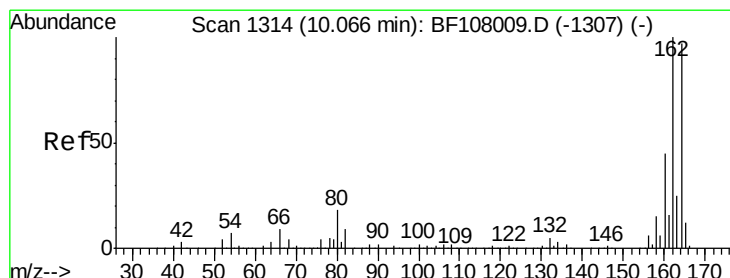
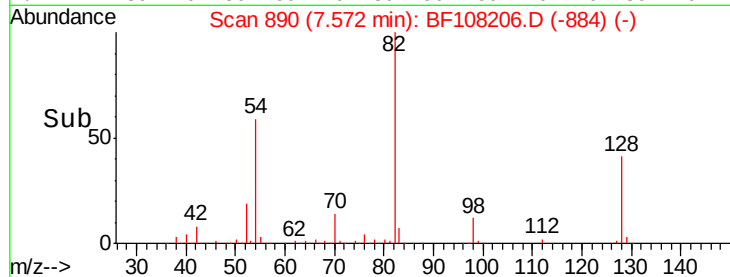
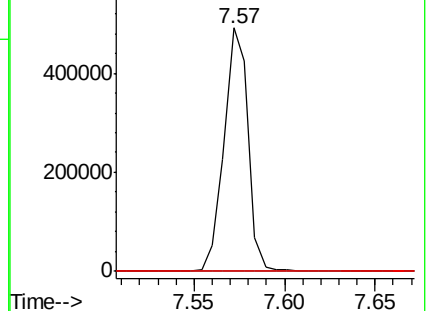
138 0.0 14.9 22.3#



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



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.06 min Scan# 1313

Delta R.T. -0.01 min

Lab File: BF108206.D

Acq: 16 Aug 2018 20:23

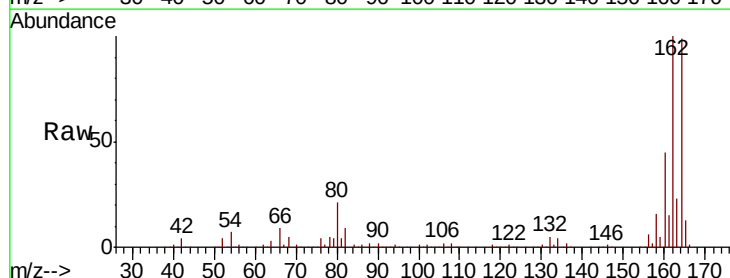
Tgt Ion: 164 Resp: 288115

Ion Ratio Lower Upper

164 100

162 100.7 86.1 129.1

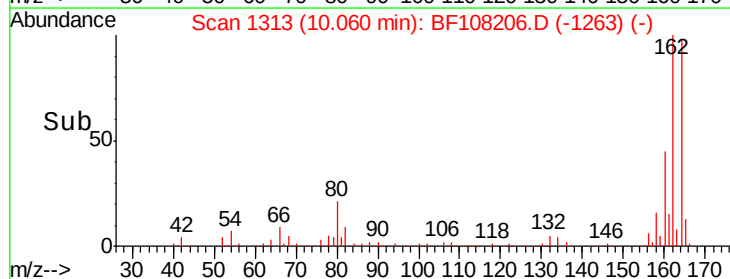
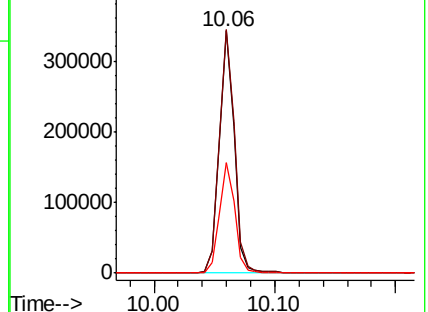
160 45.7 38.3 57.5

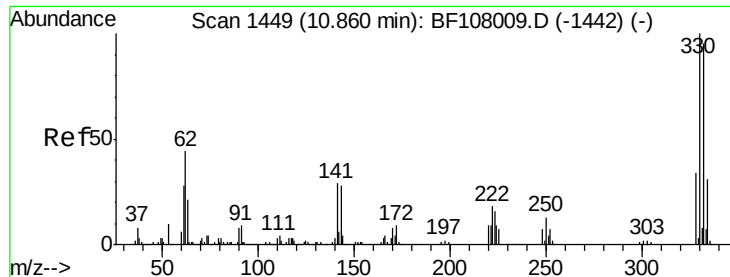


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

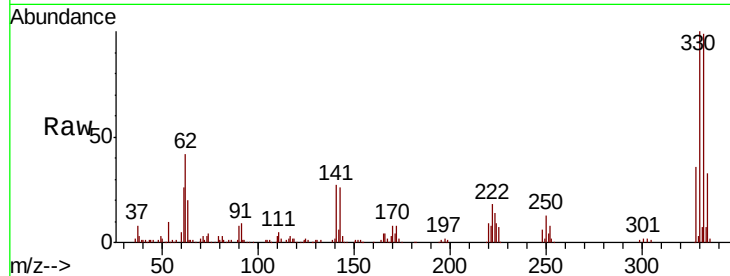




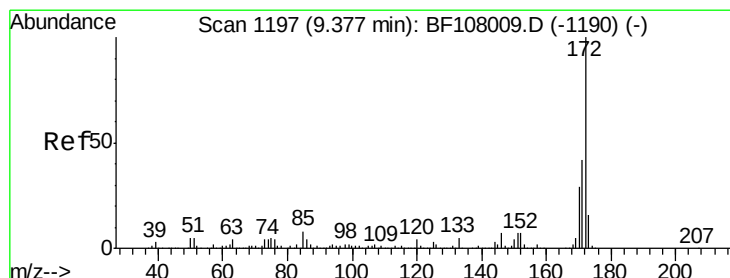
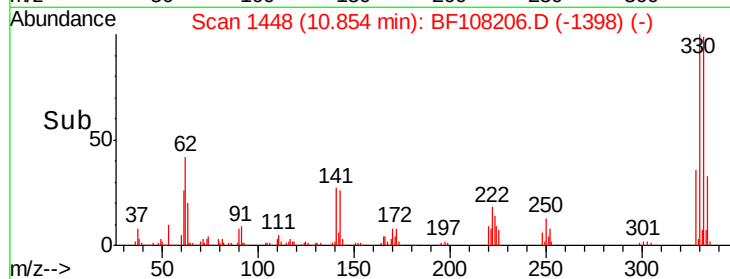
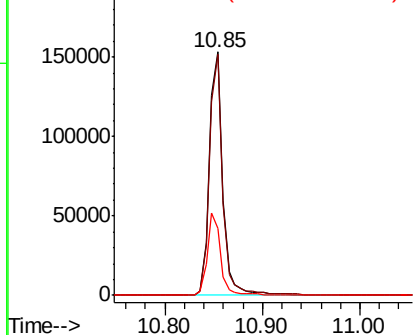
#41  
 2,4,6-Tribromophenol  
 Concen: 51.412 ng  
 RT: 10.85 min Scan# 1448  
 Delta R.T. -0.01 min  
 Lab File: BF108206.D  
 Acq: 16 Aug 2018 20:23

Instrument :  
 BNA\_F  
 ClientSampleId :  
 LSB-03(0-1)

Tgt Ion:330 Resp: 147751  
 Ion Ratio Lower Upper  
 330 100  
 332 97.1 77.0 115.6  
 141 32.8 29.9 44.9

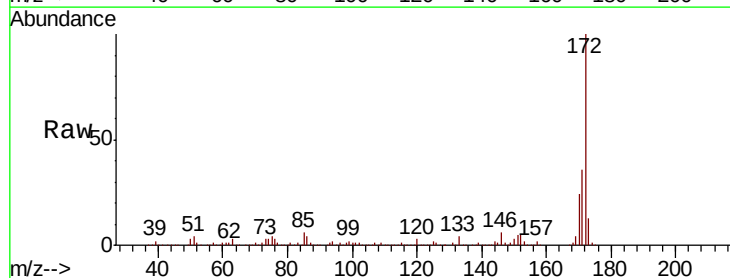


Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

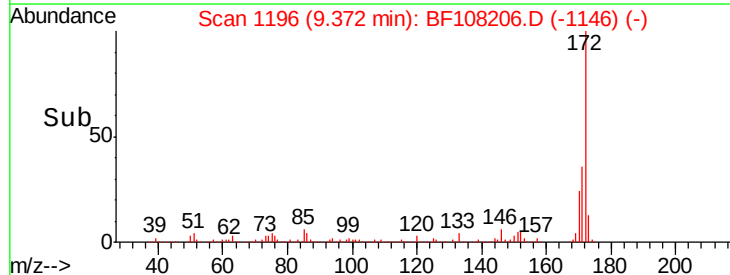
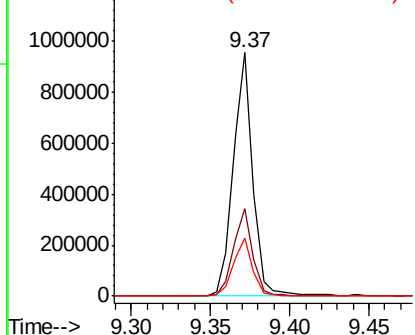


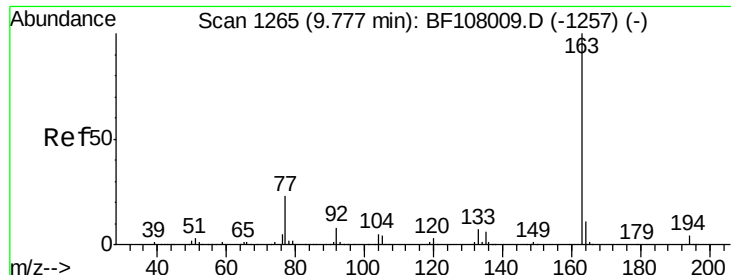
#44  
 2-Fluorobiphenyl  
 Concen: 45.568 ng  
 RT: 9.37 min Scan# 1196  
 Delta R.T. -0.01 min  
 Lab File: BF108206.D  
 Acq: 16 Aug 2018 20:23

Tgt Ion:172 Resp: 817756  
 Ion Ratio Lower Upper  
 172 100  
 171 35.8 29.7 44.5  
 170 23.9 19.6 29.4



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

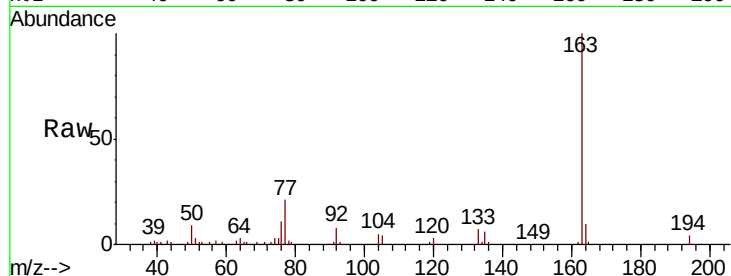




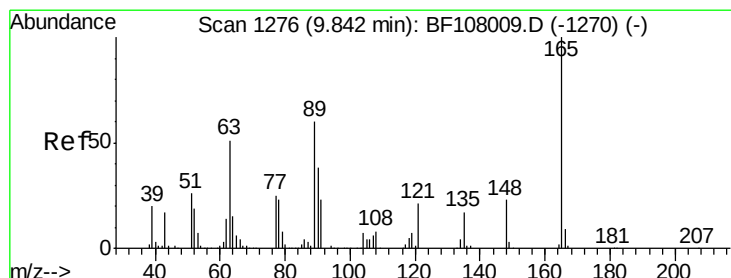
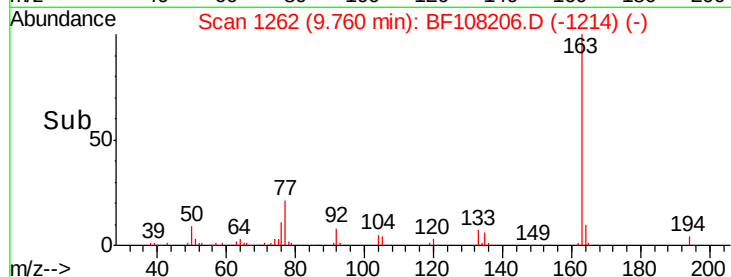
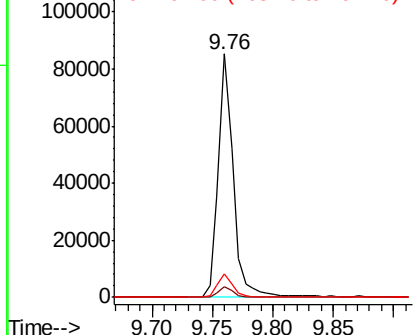
#49  
Dimethylphthalate  
Concen: 3.634 ng  
RT: 9.76 min Scan# 1262  
Delta R.T. -0.02 min  
Lab File: BF108206.D  
Acq: 16 Aug 2018 20:23

Instrument :  
BNA\_F  
ClientSampleId :  
LSB-03(0-1)

Tgt Ion:163 Resp: 72932  
Ion Ratio Lower Upper  
163 100  
194 4.2 2.7 4.1#  
164 9.7 8.2 12.2

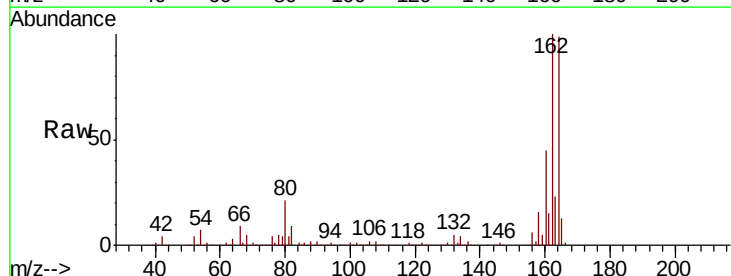


Abundance Ion 163.00 (162.70 to 163.70): E  
Ion 194.00 (193.70 to 194.70): E  
Ion 164.00 (163.70 to 164.70): E

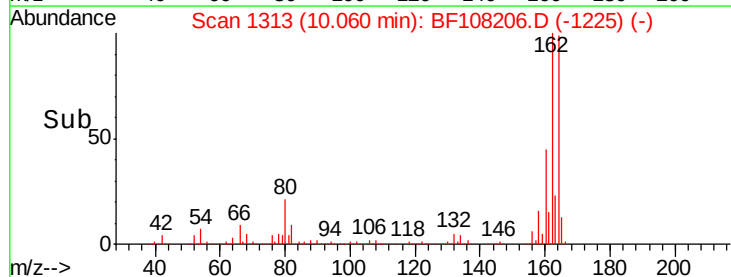
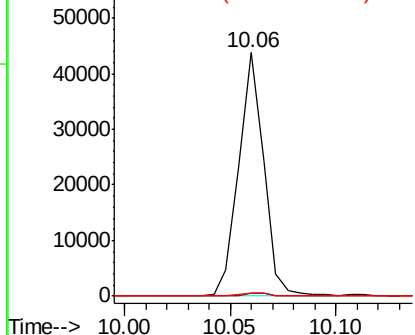


#50  
2,6-Dinitrotoluene  
Concen: 8.586 ng  
RT: 10.06 min Scan# 1313  
Delta R.T. 0.22 min  
Lab File: BF108206.D  
Acq: 16 Aug 2018 20:23

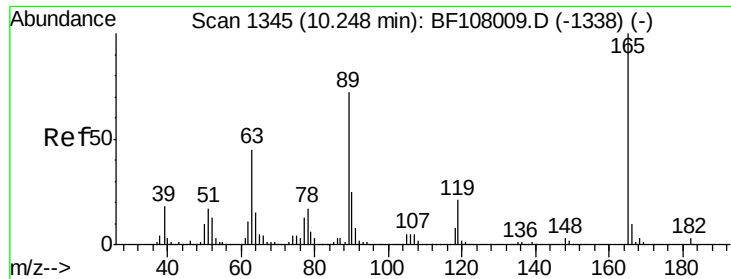
Tgt Ion:165 Resp: 36051  
Ion Ratio Lower Upper  
165 100  
63 1.2 44.7 67.1#  
89 1.2 44.0 66.0#



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



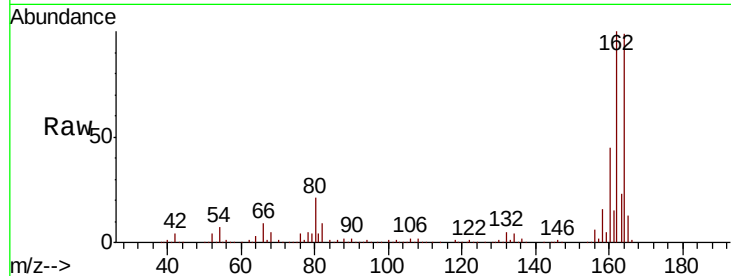




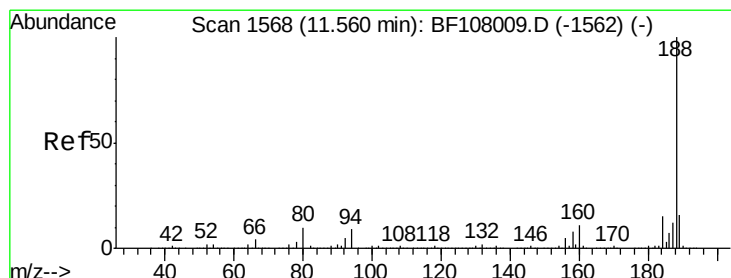
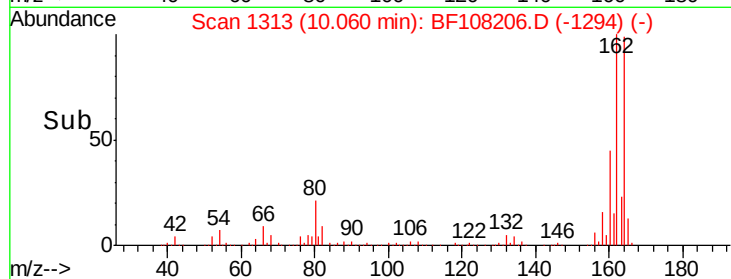
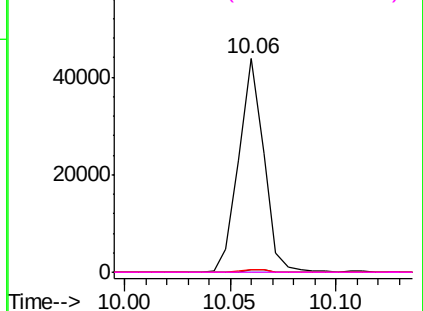
#56  
 2,4-Dinitrotoluene  
 Concen: 6.670 ng  
 RT: 10.06 min Scan# 1313  
 Delta R.T. -0.19 min  
 Lab File: BF108206.D  
 Acq: 16 Aug 2018 20:23

Instrument :  
 BNA\_F  
 ClientSampleId :  
 LSB-03(0-1)

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 165   | Resp: | 36051 |
| Ion      | Ratio | Lower | Upper |
| 165      | 100   |       |       |
| 63       | 1.2   | 36.4  | 54.6# |
| 89       | 1.2   | 57.8  | 86.6# |
| 182      | 0.0   | 1.6   | 2.4#  |

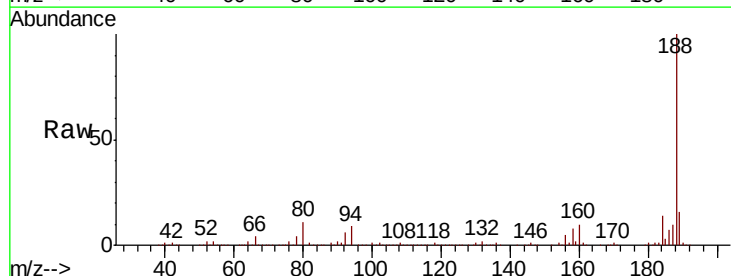


Abundance Ion 165.00 (164.70 to 165.70): E  
 Ion 63.00 (62.70 to 63.70): BF1  
 Ion 89.00 (88.70 to 89.70): BF1  
 Ion 182.00 (181.70 to 182.70): E

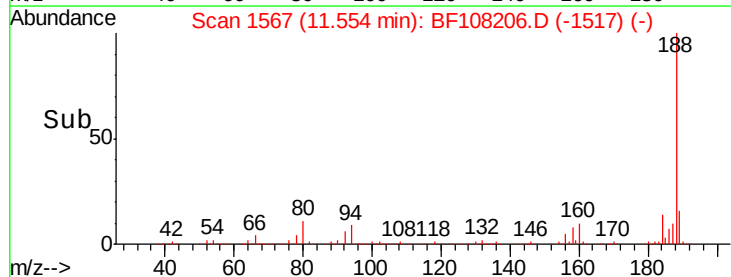
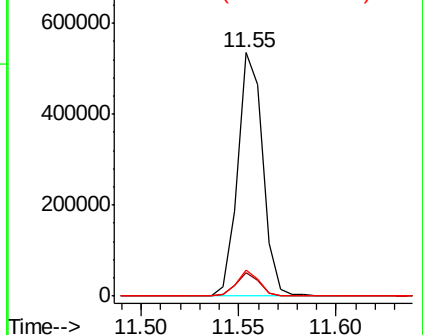


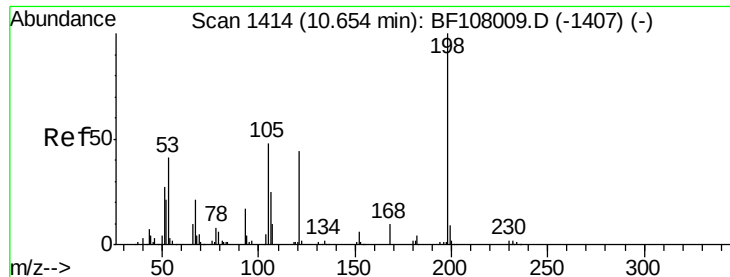
#63  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.55 min Scan# 1567  
 Delta R.T. -0.01 min  
 Lab File: BF108206.D  
 Acq: 16 Aug 2018 20:23

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 188   | Resp: | 477655 |
| Ion      | Ratio | Lower | Upper  |
| 188      | 100   |       |        |
| 94       | 9.4   | 8.5   | 12.7   |
| 80       | 10.6  | 9.2   | 13.8   |



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

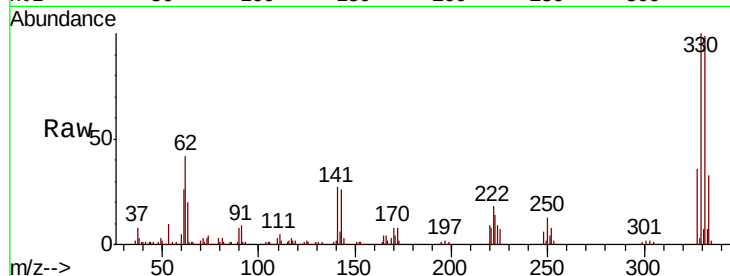




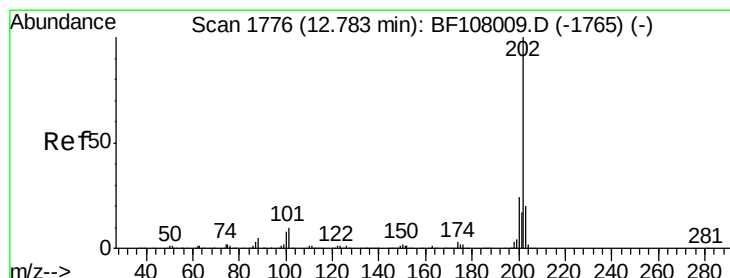
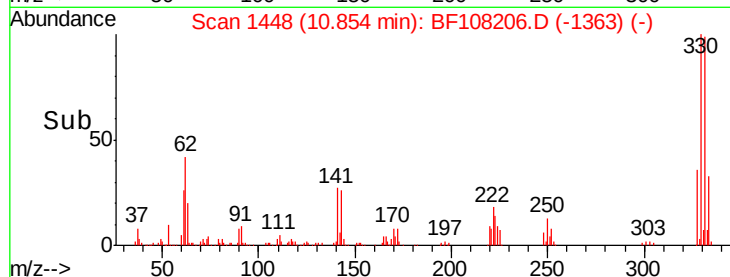
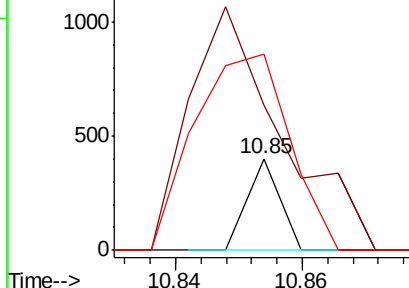
#64  
 4,6-Dinitro-2-methylphenol  
 Concen: 5.429 ng  
 RT: 10.85 min Scan# 1448  
 Delta R.T. 0.20 min  
 Lab File: BF108206.D  
 Acq: 16 Aug 2018 20:23

Instrument :  
 BNA\_F  
 ClientSampleId :  
 LSB-03(0-1)

Tgt Ion:198 Resp: 142  
 Ion Ratio Lower Upper  
 198 100  
 51 157.5 37.7 77.7#  
 105 213.2 36.3 76.3#

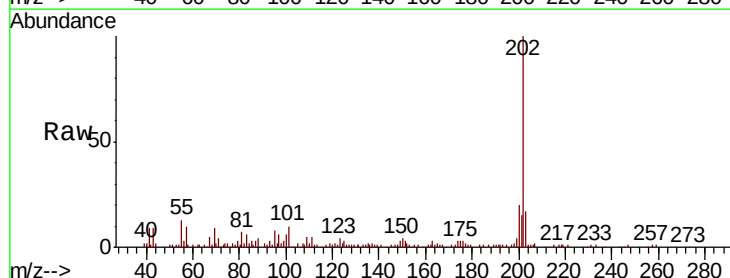


Abundance Ion 198.00 (197.70 to 198.70): E  
 Ion 51.00 (50.70 to 51.70): BF1  
 Ion 105.00 (104.70 to 105.70): E

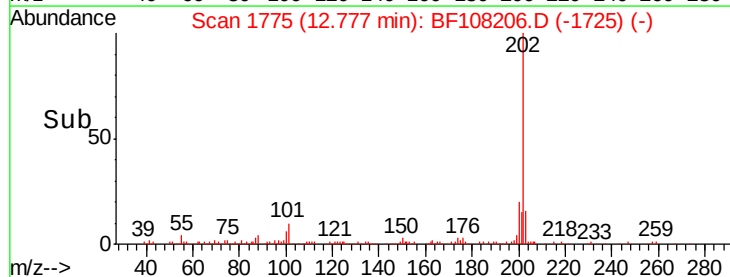
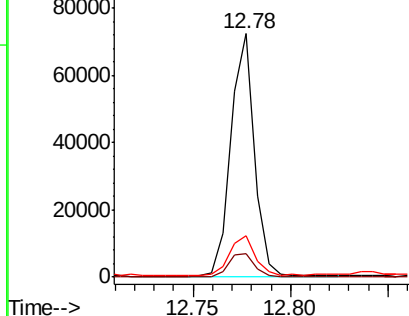


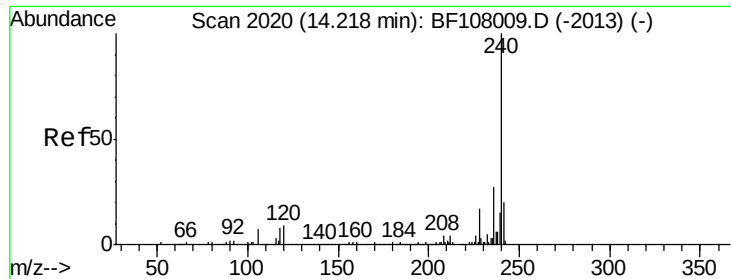
#74  
 Fluoranthene  
 Concen: 2.495 ng  
 RT: 12.78 min Scan# 1775  
 Delta R.T. -0.01 min  
 Lab File: BF108206.D  
 Acq: 16 Aug 2018 20:23

Tgt Ion:202 Resp: 61359  
 Ion Ratio Lower Upper  
 202 100  
 101 9.5 0.0 34.1  
 203 17.2 0.0 38.1



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





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.21 min Scan# 2019

Delta R.T. -0.01 min

Lab File: BF108206.D

Acq: 16 Aug 2018 20:23

Instrument :

BNA\_F

ClientSampleId :

LSB-03(0-1)

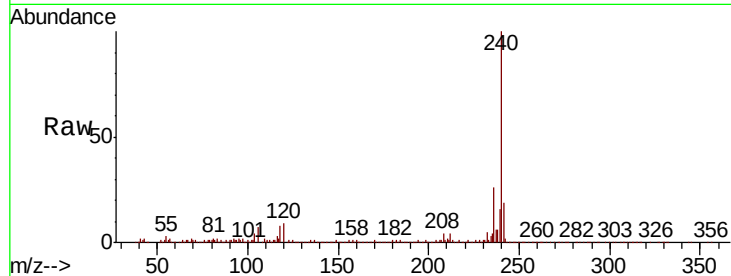
Tgt Ion:240 Resp: 450650

Ion Ratio Lower Upper

240 100

120 9.0 9.5 14.3#

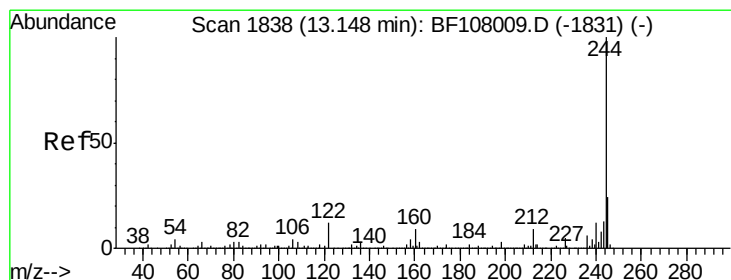
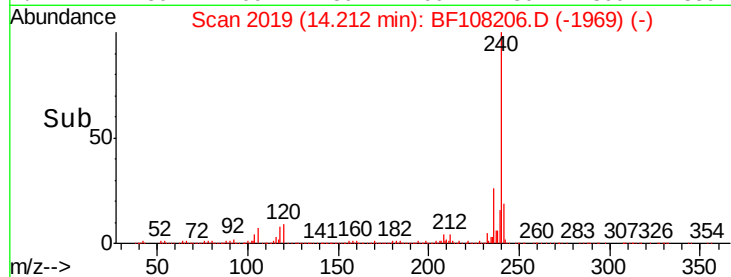
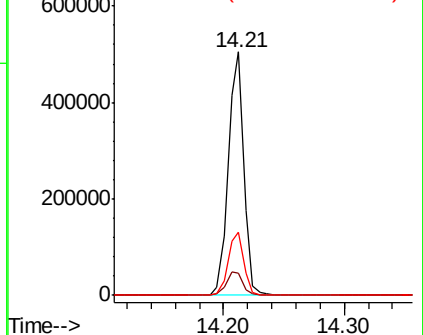
236 25.8 20.7 31.1



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

Terphenyl-d14

Concen: 39.011 ng

RT: 13.14 min Scan# 1837

Delta R.T. -0.01 min

Lab File: BF108206.D

Acq: 16 Aug 2018 20:23

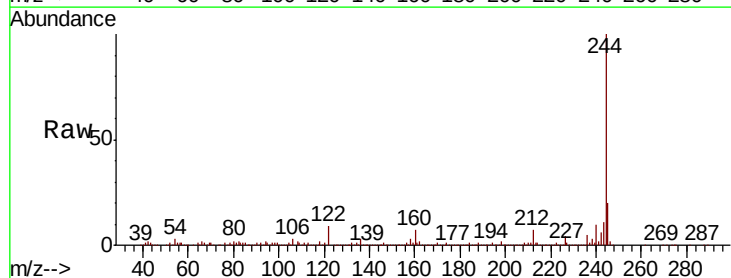
Tgt Ion:244 Resp: 691437

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

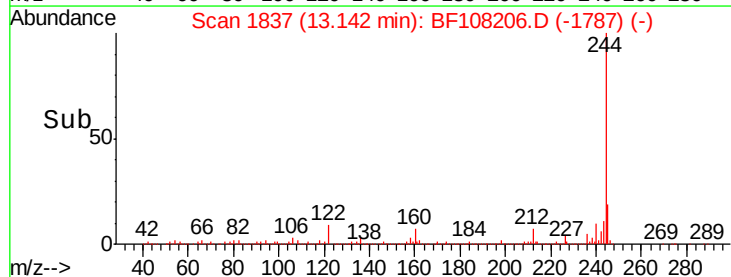
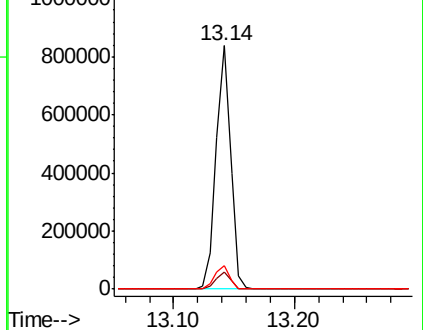
122 9.4 11.0 16.4#

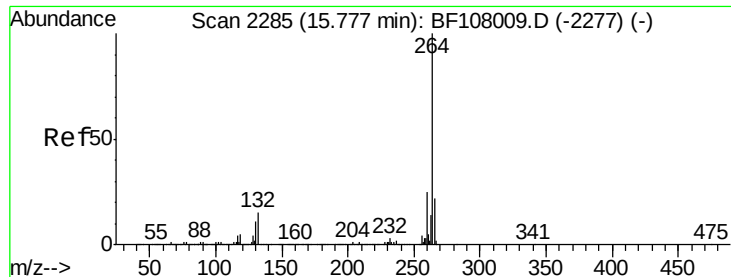


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

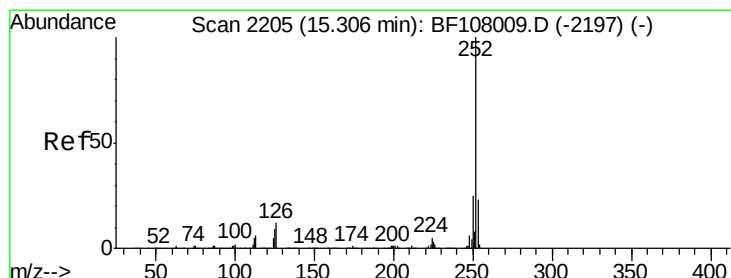
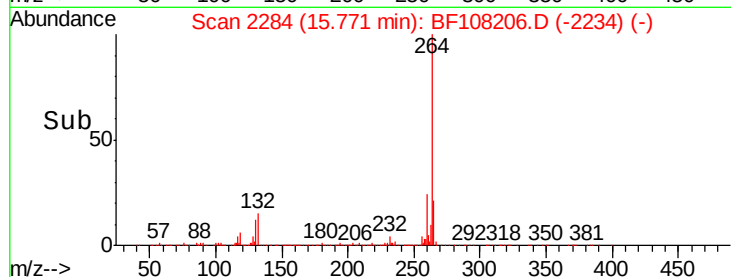
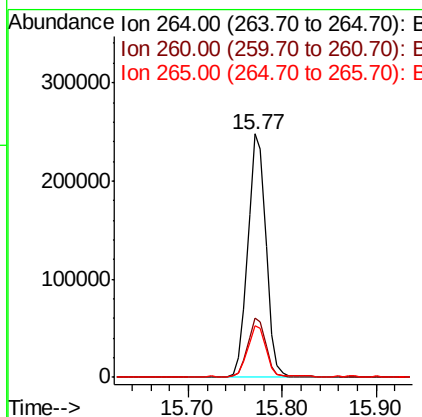
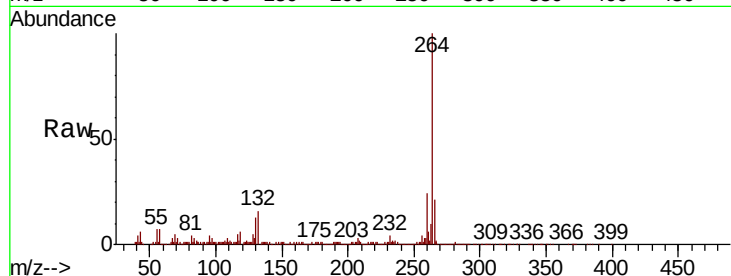




#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.77 min Scan# 2284  
Delta R.T. -0.01 min  
Lab File: BF108206.D  
Acq: 16 Aug 2018 20:23

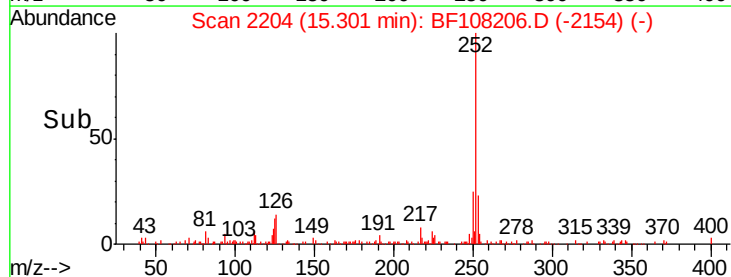
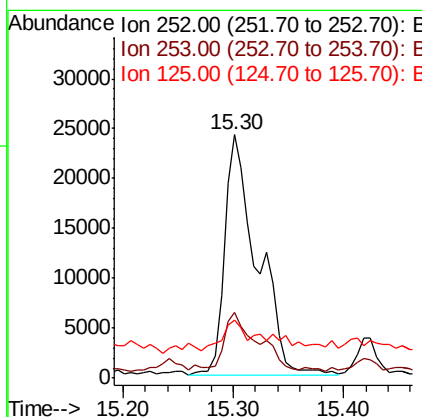
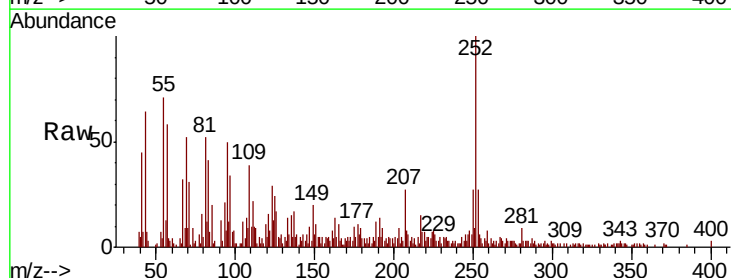
Instrument :  
BNA\_F  
ClientSampleId :  
LSB-03(0-1)

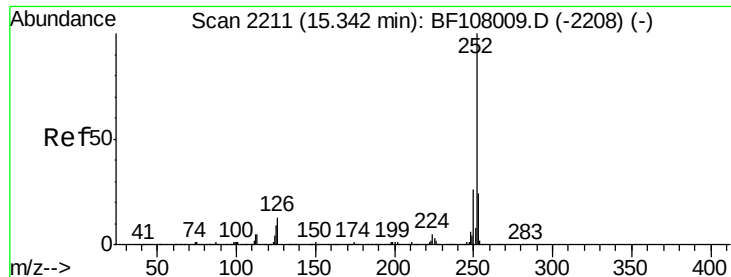
Tgt Ion:264 Resp: 333591  
Ion Ratio Lower Upper  
264 100  
260 24.3 19.2 28.8  
265 21.4 17.5 26.3



#87  
Benzo(b)fluoranthene  
Concen: 2.488 ng  
RT: 15.30 min Scan# 2204  
Delta R.T. -0.01 min  
Lab File: BF108206.D  
Acq: 16 Aug 2018 20:23

Tgt Ion:252 Resp: 49585  
Ion Ratio Lower Upper  
252 100  
253 26.7 17.0 25.6#  
125 23.8 9.0 13.6#

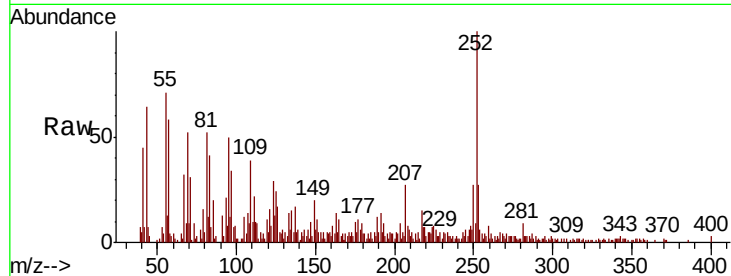




#88  
 Benzo(k)fluoranthene  
 Concen: 2.706 ng  
 RT: 15.30 min Scan# 2204  
 Delta R.T. -0.04 min  
 Lab File: BF108206.D  
 Acq: 16 Aug 2018 20:23

Instrument :  
 BNA\_F  
 ClientSampleId :  
 LSB-03(0-1)

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 26.7  | 17.9  | 26.9  |
| 125     | 23.8  | 10.2  | 15.2  |



Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

