

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF032019\  
 Data File : BF113180.D  
 Acq On : 20 Mar 2019 19:29  
 Operator : JU/SJ  
 Sample : K1994-02 5X  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 30206-10

Manual Integrations  
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 3/25/2019 4:13:17 PM

Quant Time: Mar 22 04:11:01 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Mar 21 12:13:22 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.73  | 152  | 110278   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.02  | 136  | 270848   | 20.00  | ng    | 0.01     |
| 39) Acenaphthene-d10        | 9.77  | 164  | 194233   | 20.00  | ng    | 0.02     |
| 64) Phenanthrene-d10        | 11.25 | 188  | 351323   | 20.00  | ng    | 0.02     |
| 76) Chrysene-d12            | 13.87 | 240  | 341657   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12            | 15.28 | 264  | 276447   | 20.00  | ng    | 0.01     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.33  | 112  | 147984   | 20.87  | ng    | 0.00     |
| 7) Phenol-d6                | 6.37  | 99   | 194955   | 21.89  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.29  | 82   | 161796   | 35.75  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.56 | 330  | 46690    | 22.64  | ng    | 0.01     |
| 45) 2-Fluorobiphenyl        | 9.09  | 172  | 223065   | 14.54  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.82 | 244  | 269561   | 15.29  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 37) 2-Methylnaphthalene     | 8.73  | 142  | 308979   | 35.581 | ng    | 96       |
| 38) 1-Methylnaphthalene     | 8.83  | 142  | 186902   | 22.219 | ng    | # 96     |
| 46) 1,1'-Biphenyl           | 9.19  | 154  | 79762    | 5.035  | ng    | 97       |
| 58) Fluorene                | 10.32 | 166  | 56484m   | 4.459  | ng    |          |
| 71) Phenanthrene            | 11.27 | 178  | 62598    | 3.581  | ng    | # 81     |
| 78) Pyrene                  | 12.68 | 202  | 82801    | 2.875  | ng    | 97       |

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

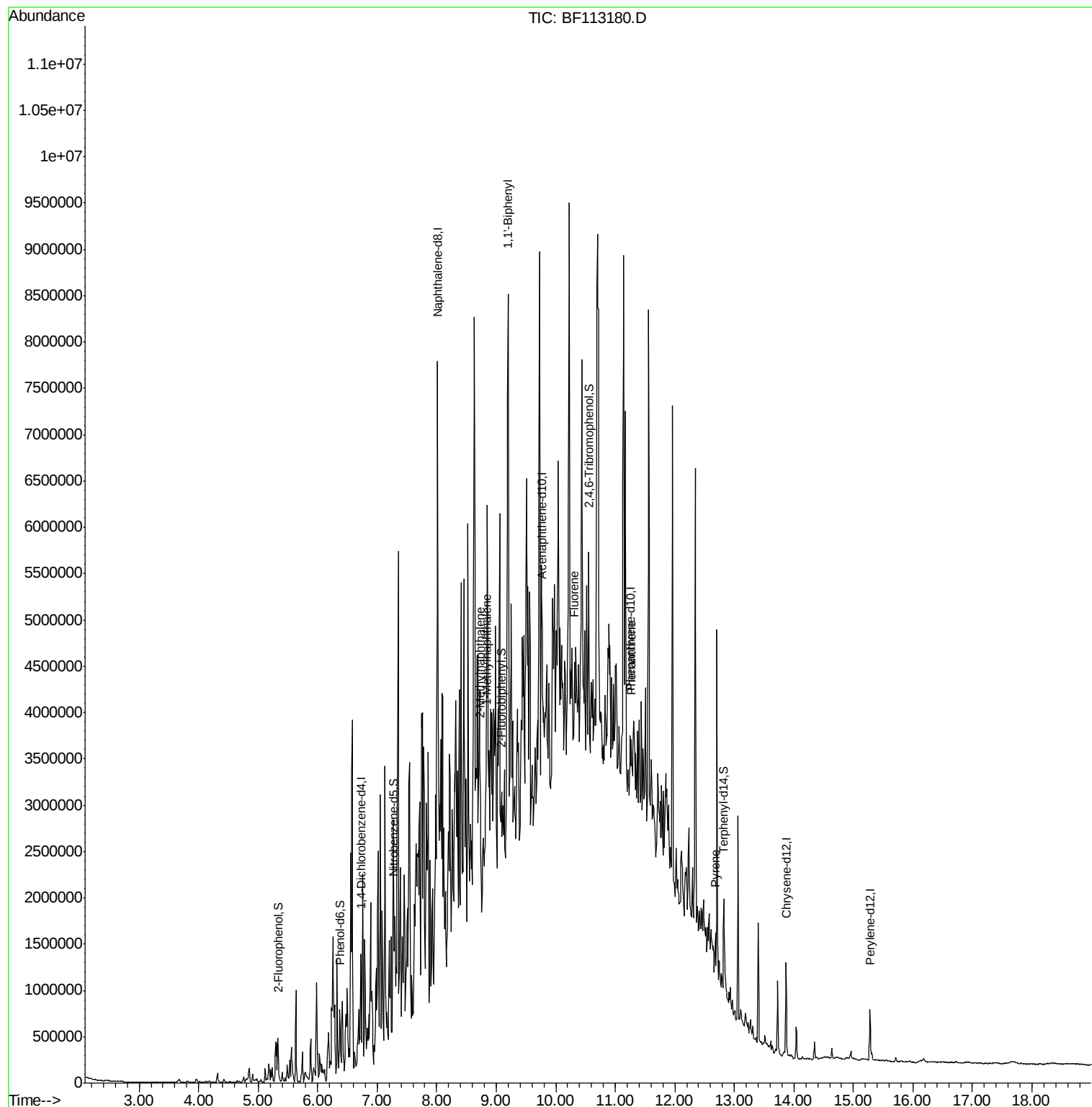
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF032019\  
Data File : BF113180.D  
Acq On : 20 Mar 2019 19:29  
Operator : JU/SJ  
Sample : K1994-02 5X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

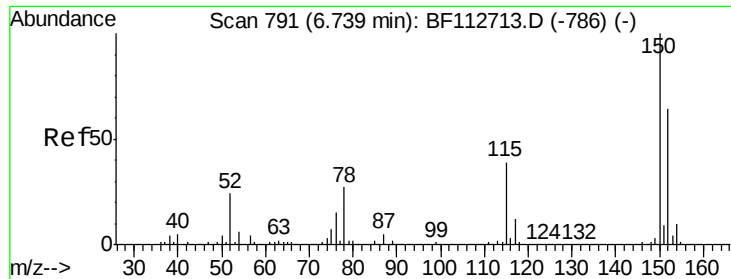
Instrument :  
BNA\_F  
ClientSampleId :  
30206-10

Quant Time: Mar 22 04:11:01 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Mar 21 12:13:22 2019  
Response via : Initial Calibration

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#1

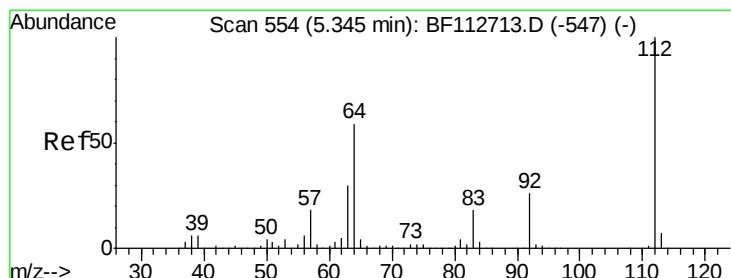
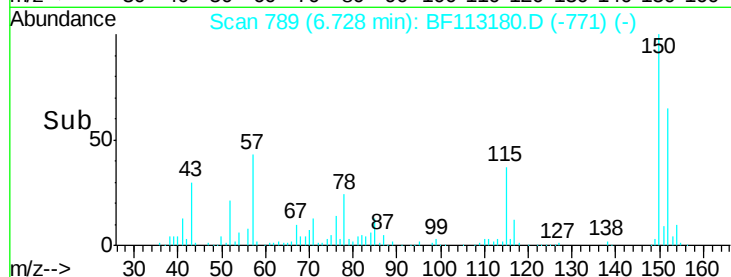
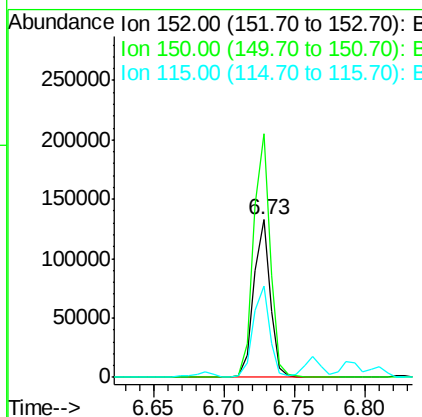
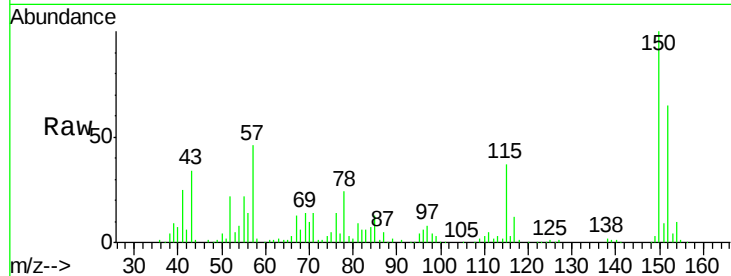
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.73 min Scan# 789  
Delta R.T. 0.01 min  
Lab File: BF113180.D  
Acq: 20 Mar 2019 19:29

Instrument :  
BNA\_F  
ClientSampled :  
30206-10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 154.6 | 123.0 | 184.6 |
| 115     | 57.8  | 45.9  | 68.9  |

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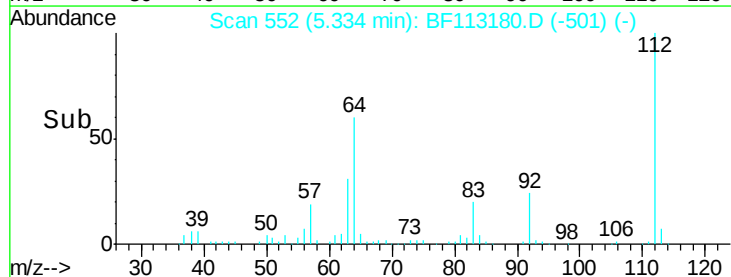
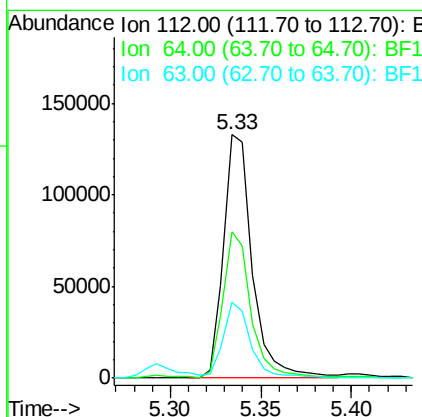
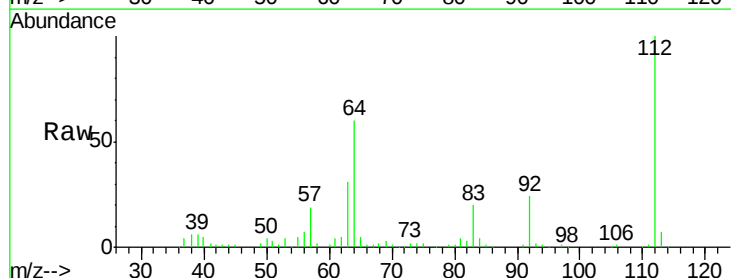
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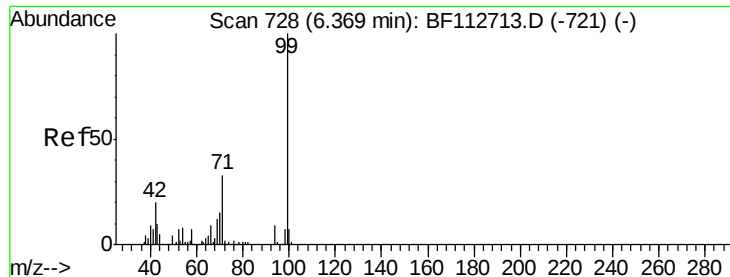


#5

2-Fluorophenol  
Concen: 20.874 ng  
RT: 5.33 min Scan# 552  
Delta R.T. -0.00 min  
Lab File: BF113180.D  
Acq: 20 Mar 2019 19:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 60.0  | 49.3  | 73.9  |
| 63      | 31.0  | 25.4  | 38.2  |





#7

Phenol-d6

Concen: 21.892 ng

RT: 6.37 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF113180.D

Acq: 20 Mar 2019 19:29

Instrument :

BNA\_F

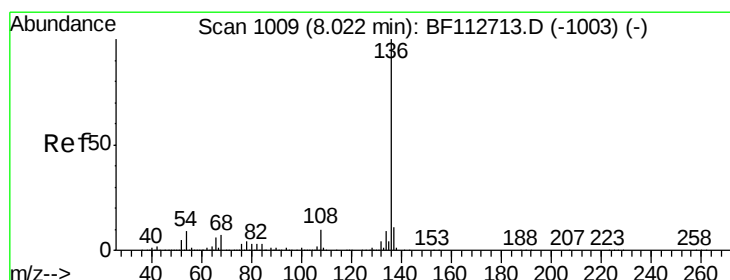
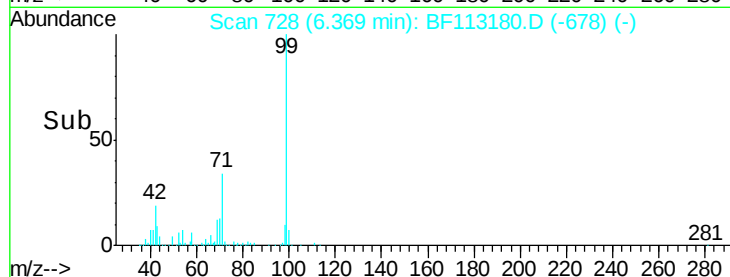
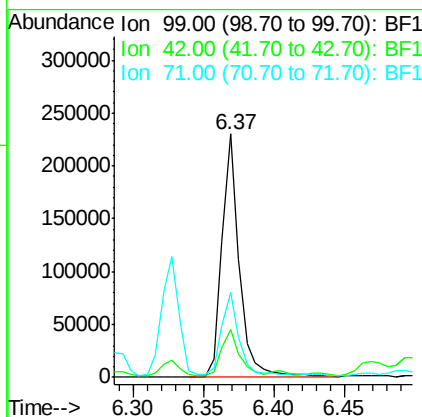
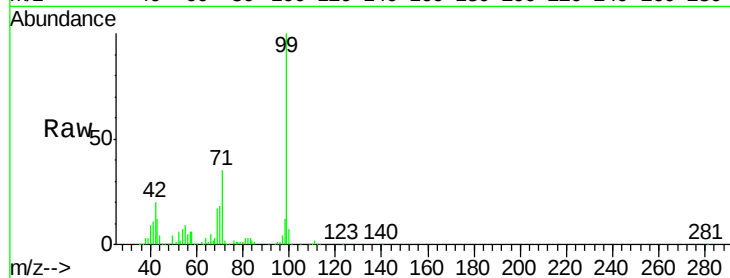
ClientSampleId :

30206-10

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 99    | Resp: | 194955 |
| Ion Ratio | Lower | Upper |        |
| 99        | 100   |       |        |
| 42        | 19.8  | 15.2  | 22.8   |
| 71        | 35.0  | 25.7  | 38.5   |

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#21

Naphthalene-d8

Concen: 20.000 ng

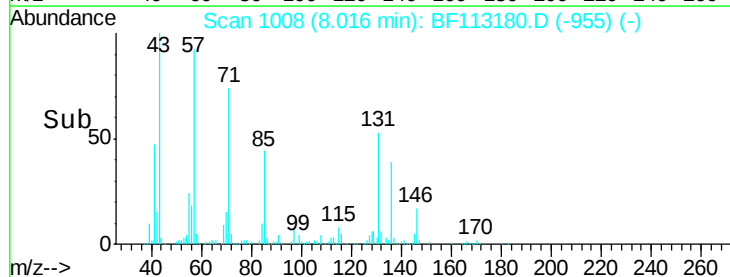
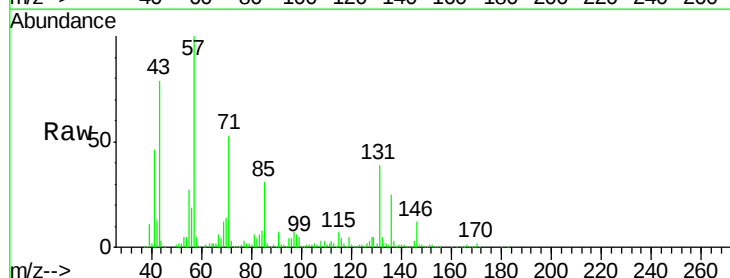
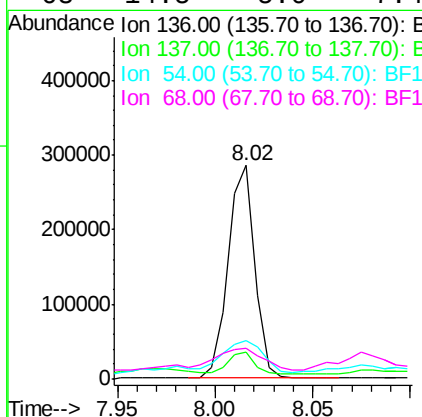
RT: 8.02 min Scan# 1008

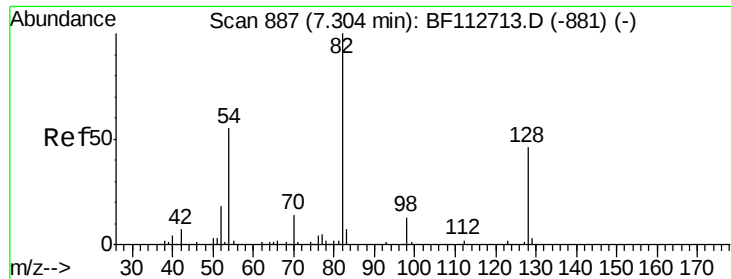
Delta R.T. 0.01 min

Lab File: BF113180.D

Acq: 20 Mar 2019 19:29

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 136   | Resp: | 270848 |
| Ion Ratio | Lower | Upper |        |
| 136       | 100   |       |        |
| 137       | 12.7  | 8.9   | 13.3   |
| 54        | 18.0  | 7.0   | 10.6#  |
| 68        | 14.5  | 5.0   | 7.4#   |





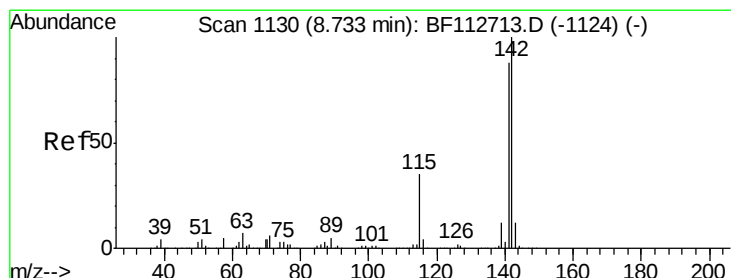
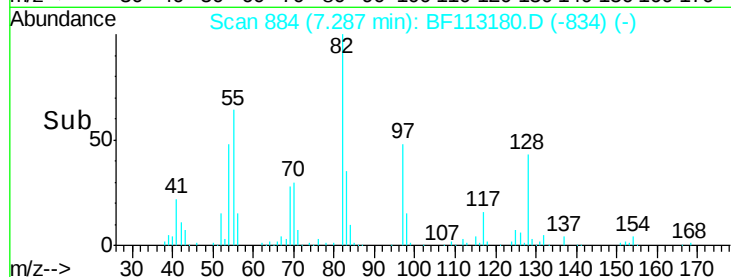
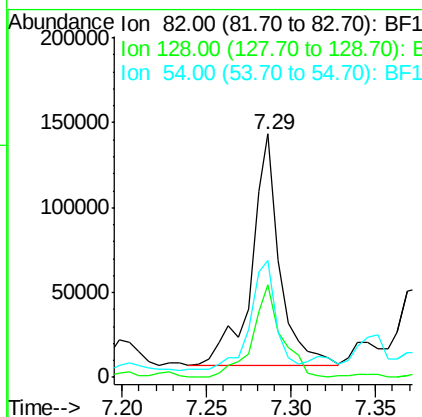
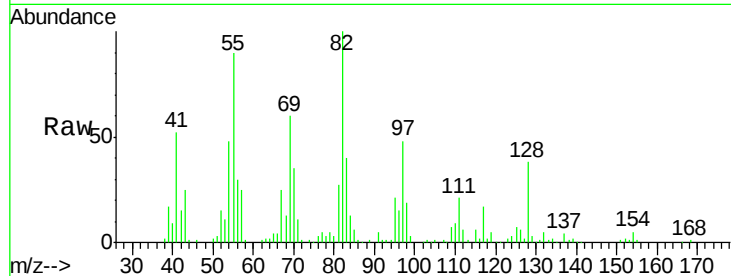
#23  
Nitrobenzene-d5  
Concen: 35.745 ng  
RT: 7.29 min Scan# 884  
Delta R.T. -0.01 min  
Lab File: BF113180.D  
Acq: 20 Mar 2019 19:29

Instrument :  
BNA\_F  
ClientSampleId :  
30206-10

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 161796 |       |       |
| 128     | 37.8  | 37.9   | 56.9# |       |
| 54      | 48.1  | 41.2   | 61.8  |       |

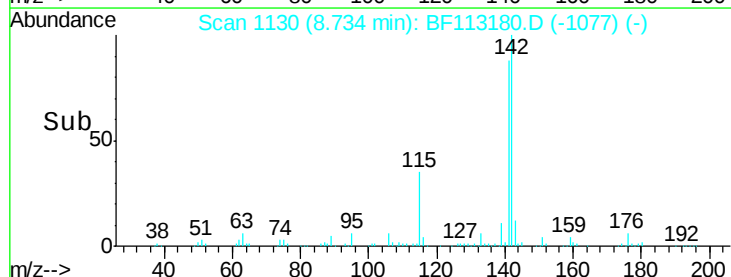
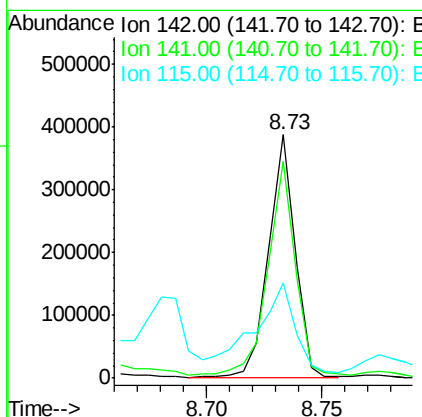
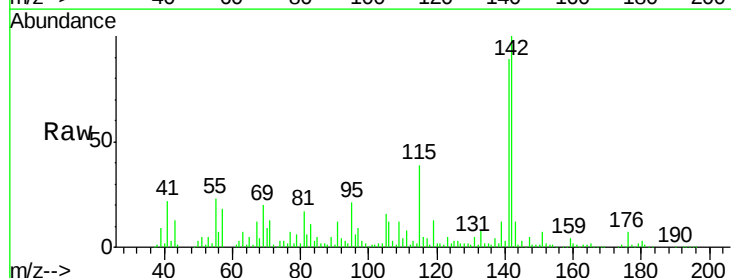
Manual Integrations  
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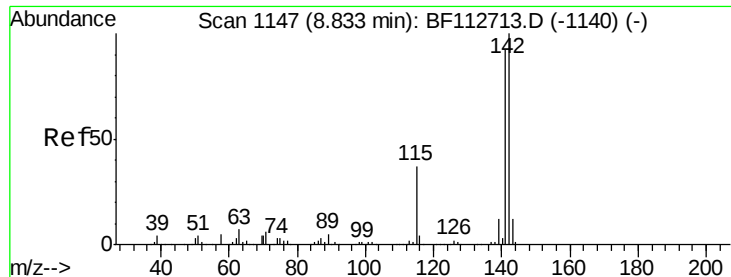
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#37  
2-Methylnaphthalene  
Concen: 35.581 ng  
RT: 8.73 min Scan# 1130  
Delta R.T. 0.01 min  
Lab File: BF113180.D  
Acq: 20 Mar 2019 19:29

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 142     | 100   | 308979 |       |       |
| 141     | 89.2  | 70.5   | 105.7 |       |
| 115     | 39.1  | 26.3   | 39.5  |       |





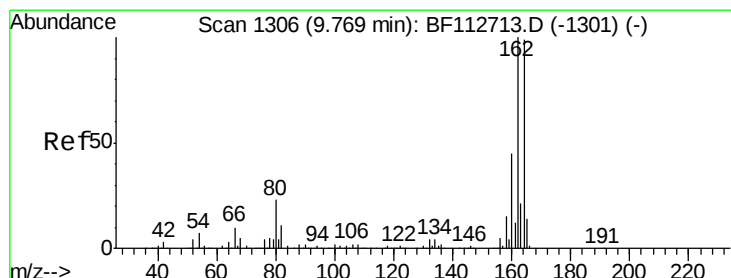
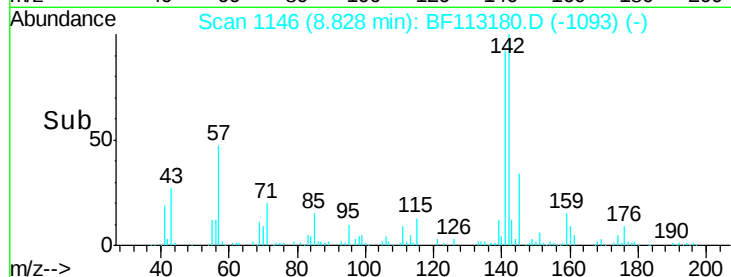
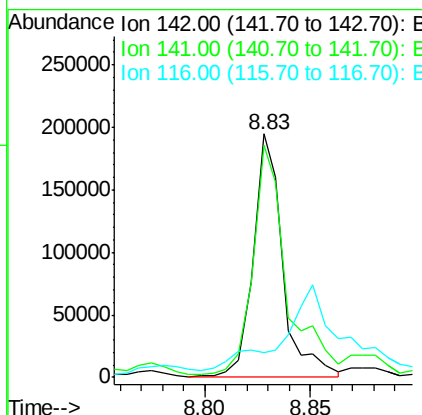
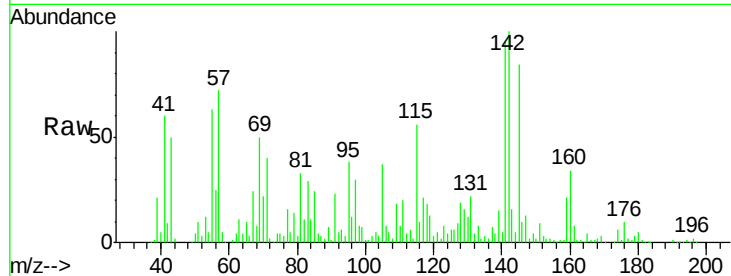
#38  
 1-Methylnaphthalene  
 Concen: 22.219 ng  
 RT: 8.83 min Scan# 1146  
 Delta R.T. 0.01 min  
 Lab File: BF113180.D  
 Acq: 20 Mar 2019 19:29

Instrument :  
 BNA\_F  
 ClientSampled :  
 30206-10

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 142     | 100   | 186902 |       |       |
| 141     | 95.1  | 73.5   | 110.3 |       |
| 116     | 10.2  | 3.0    | 4.6#  |       |

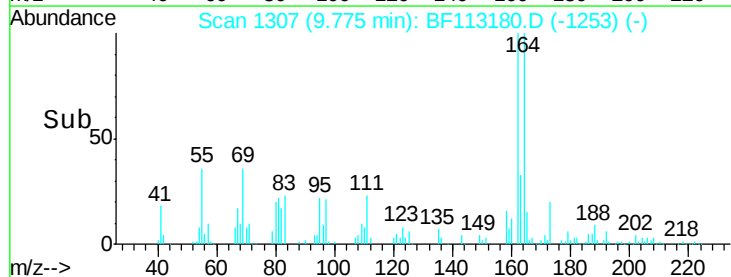
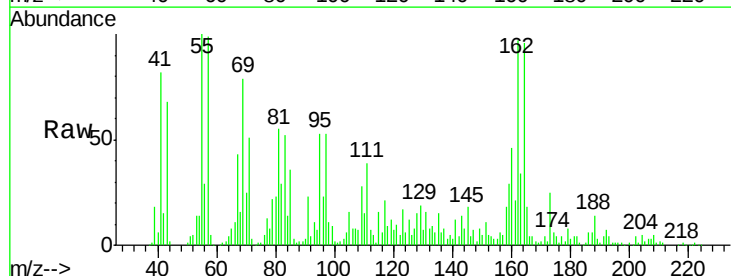
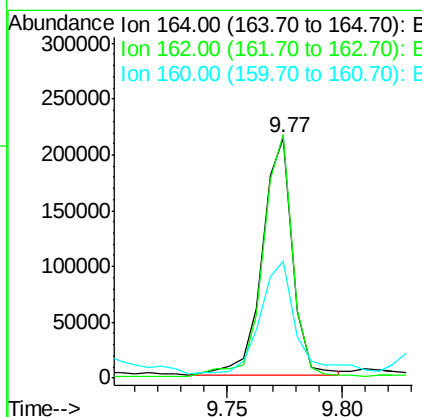
Manual Integrations  
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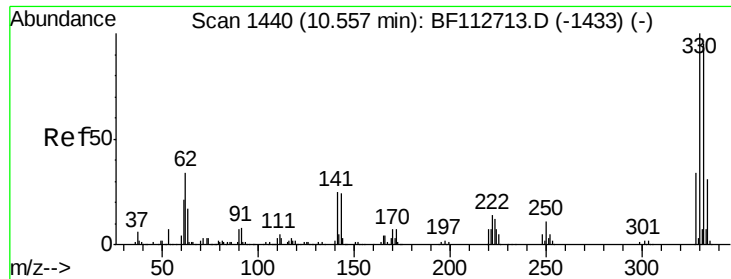
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#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.77 min Scan# 1307  
 Delta R.T. 0.02 min  
 Lab File: BF113180.D  
 Acq: 20 Mar 2019 19:29

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 164     | 100   | 194233 |       |       |
| 162     | 101.5 | 80.8   | 121.2 |       |
| 160     | 48.6  | 36.2   | 54.2  |       |





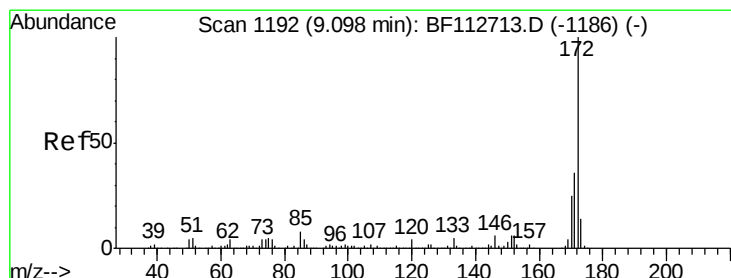
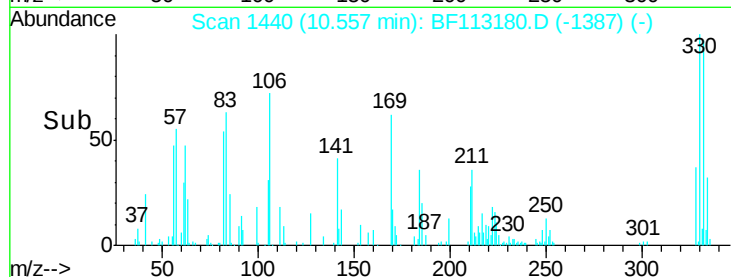
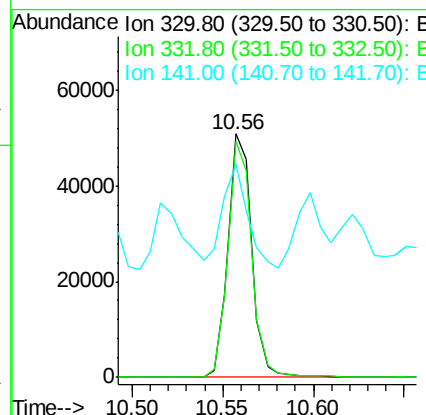
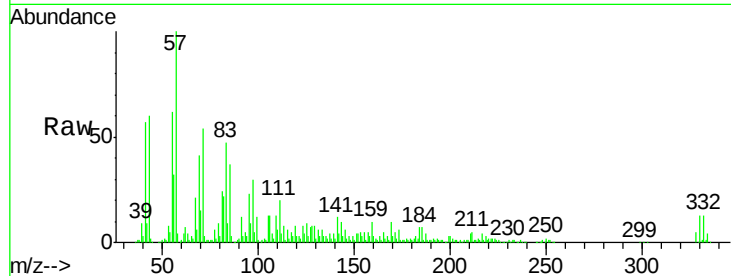
#42  
 2,4,6-Tribromophenol  
 Concen: 22.643 ng  
 RT: 10.56 min Scan# 1440  
 Delta R.T. 0.01 min  
 Lab File: BF113180.D  
 Acq: 20 Mar 2019 19:29

Instrument :  
 BNA\_F  
 ClientSampled :  
 30206-10

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 330     | 100   | 46690 |       |       |
| 332     | 97.2  | 76.3  | 114.5 |       |
| 141     | 43.5  | 22.3  | 33.5# |       |

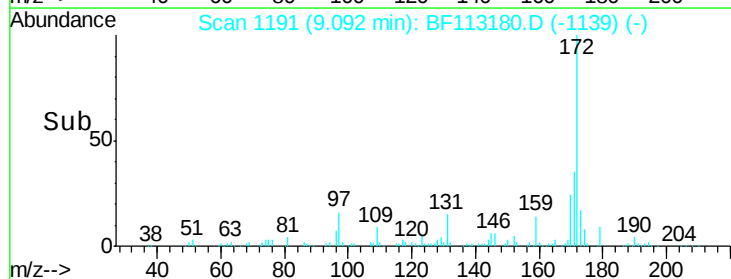
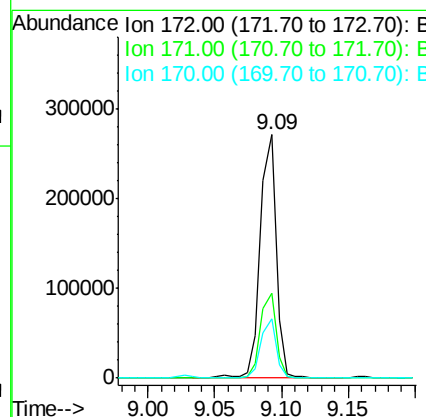
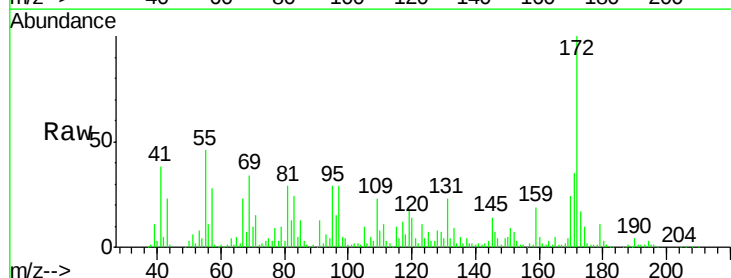
Manual Integrations  
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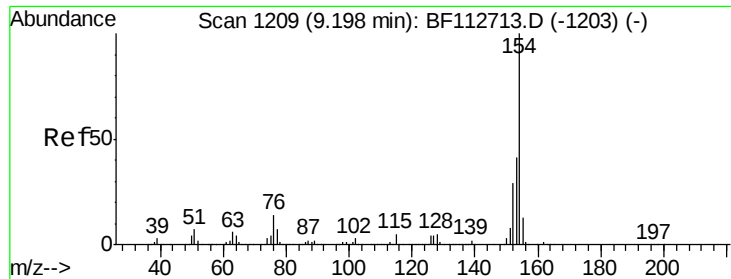
Sohil  
 3/25/2019 4:13:17 PM



#45  
 2-Fluorobiphenyl  
 Concen: 14.545 ng  
 RT: 9.09 min Scan# 1191  
 Delta R.T. 0.01 min  
 Lab File: BF113180.D  
 Acq: 20 Mar 2019 19:29

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 223065 |       |       |
| 171     | 35.0  | 29.0   | 43.4  |       |
| 170     | 24.2  | 20.1   | 30.1  |       |





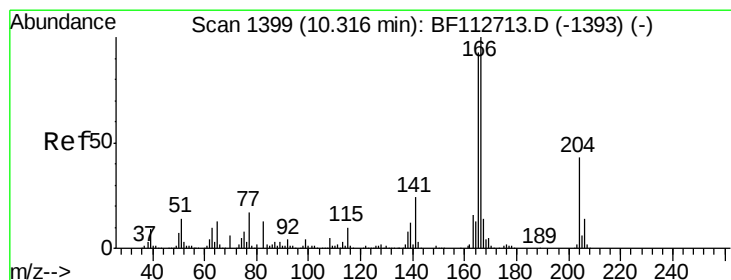
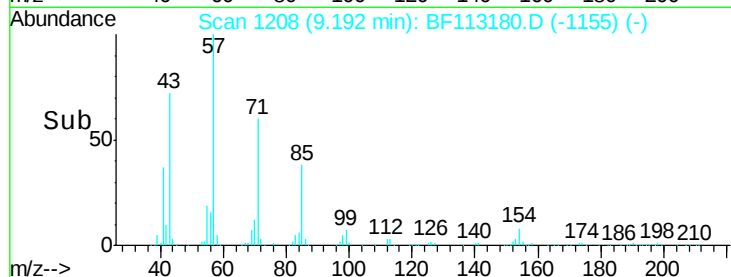
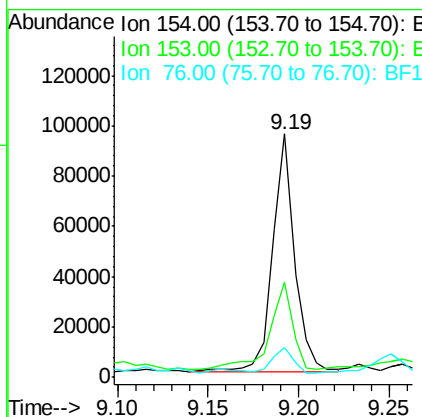
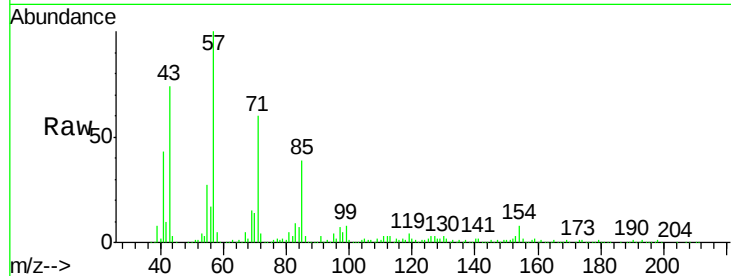
#46  
 1,1'-Biphenyl  
 Concen: 5.035 ng  
 RT: 9.19 min Scan# 1208  
 Delta R.T. 0.01 min  
 Lab File: BF113180.D  
 Acq: 20 Mar 2019 19:29

Instrument :  
 BNA\_F  
 ClientSampleId :  
 30206-10

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 154     | 100   | 79762 |       |       |
| 153     | 39.2  | 20.9  | 60.9  |       |
| 76      | 12.1  | 0.0   | 33.5  |       |

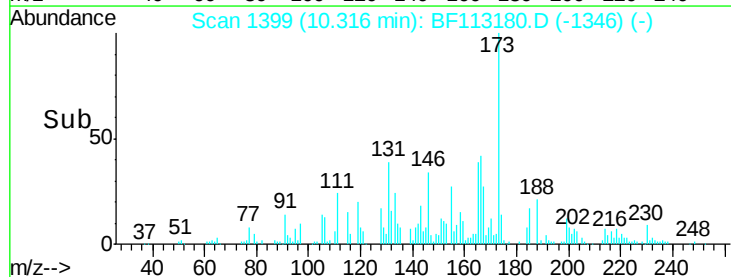
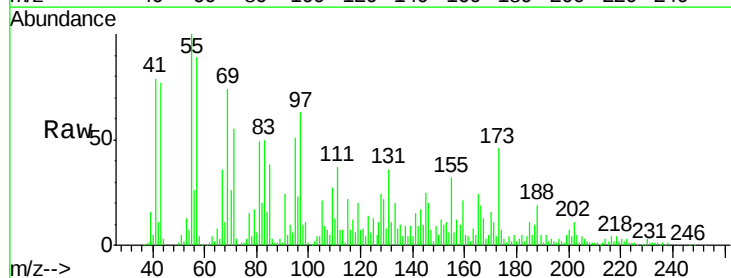
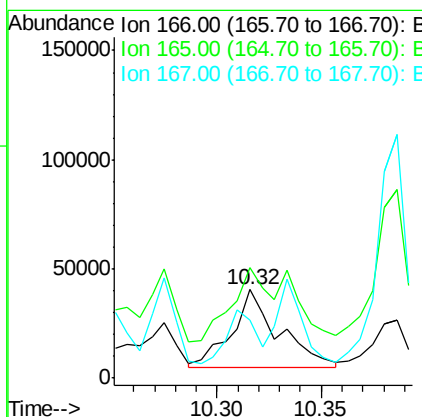
Manual Integrations  
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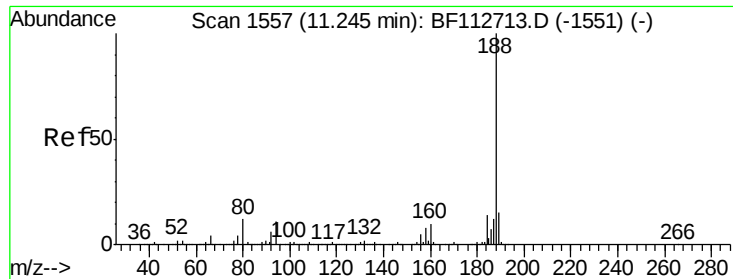
Sohil  
 3/25/2019 4:13:17 PM



#58  
 Fluorene  
 Concen: 4.459 ng m  
 RT: 10.32 min Scan# 1399  
 Delta R.T. 0.01 min  
 Lab File: BF113180.D  
 Acq: 20 Mar 2019 19:29

| Tgt Ion | Ratio | Resp  | Lower  | Upper |
|---------|-------|-------|--------|-------|
| 166     | 100   | 56484 |        |       |
| 165     | 125.9 | 75.4  | 113.2# |       |
| 167     | 66.2  | 11.0  | 16.6#  |       |





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.25 min Scan# 1558

Delta R.T. 0.02 min

Lab File: BF113180.D

Acq: 20 Mar 2019 19:29

Instrument :

BNA\_F

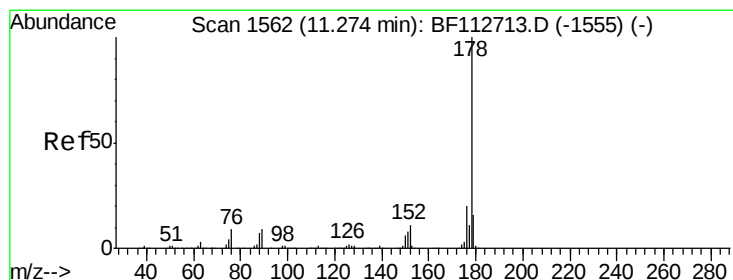
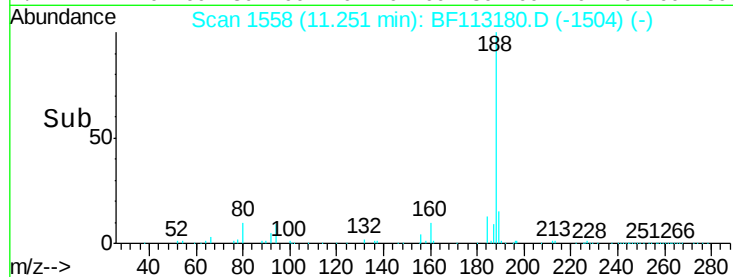
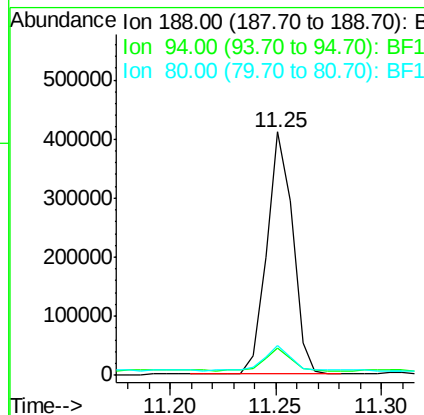
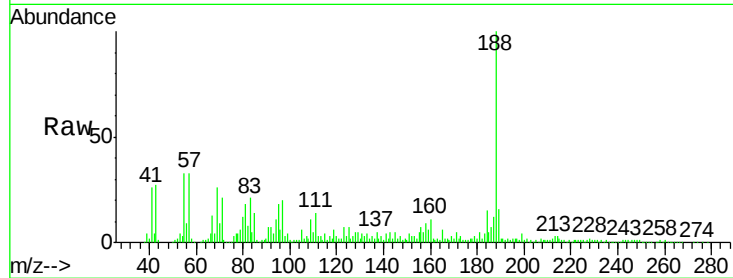
ClientSampled :

30206-10

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 351323 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 11.4  | 7.4   | 11.2#  |
| 80        | 12.0  | 7.9   | 11.9#  |

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#71

Phenanthrene

Concen: 3.581 ng

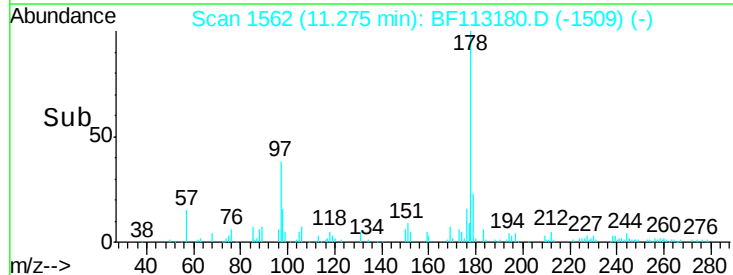
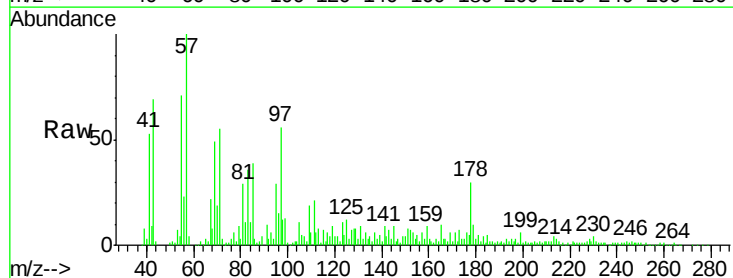
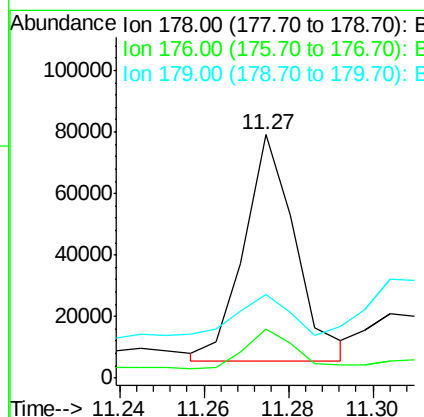
RT: 11.27 min Scan# 1562

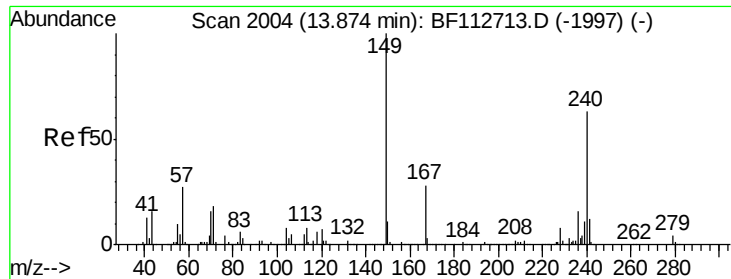
Delta R.T. 0.01 min

Lab File: BF113180.D

Acq: 20 Mar 2019 19:29

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 62598 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 20.1  | 16.2  | 24.4  |
| 179       | 34.3  | 13.0  | 19.4# |





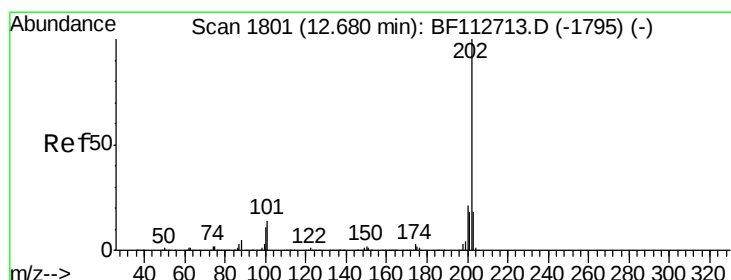
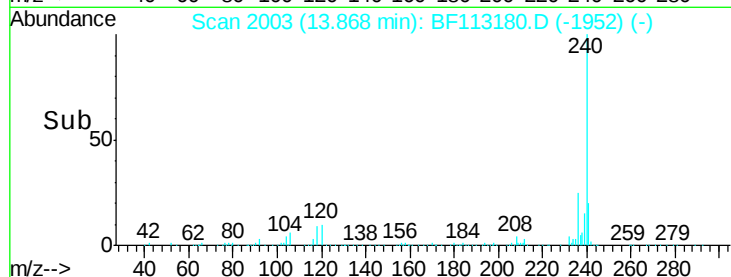
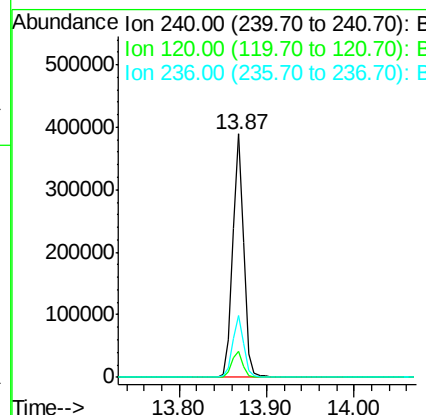
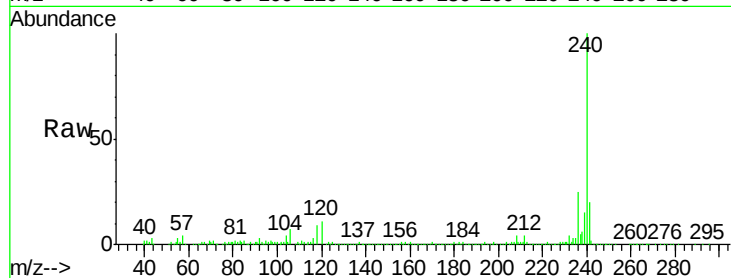
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.87 min Scan# 2003  
Delta R.T. -0.00 min  
Lab File: BF113180.D  
Acq: 20 Mar 2019 19:29

Instrument :  
BNA\_F  
ClientSampled :  
30206-10

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 341657 |       |       |
| 120     | 10.6  | 8.6    | 12.8  |       |
| 236     | 25.4  | 21.2   | 31.8  |       |

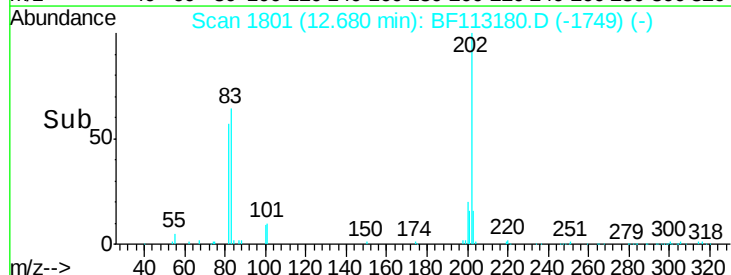
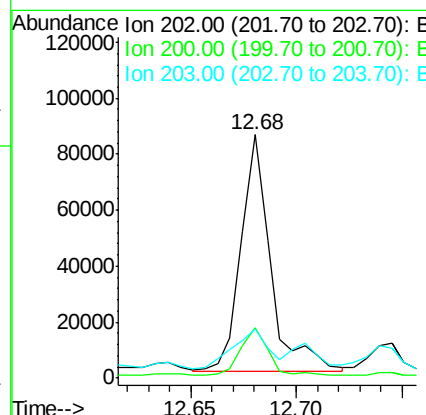
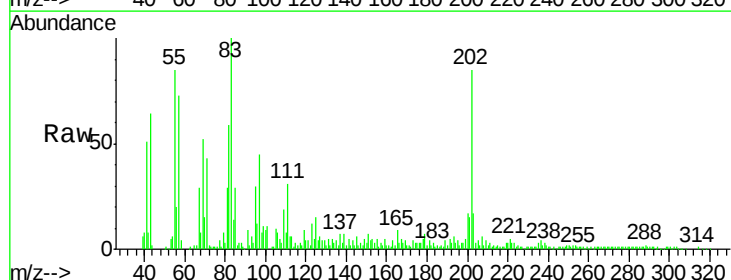
Manual Integrations  
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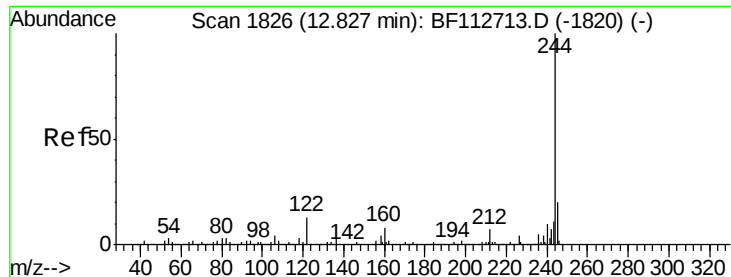
Sohil  
3/25/2019 4:13:17 PM



#78  
Pyrene  
Concen: 2.875 ng  
RT: 12.68 min Scan# 1801  
Delta R.T. 0.01 min  
Lab File: BF113180.D  
Acq: 20 Mar 2019 19:29

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 82801 |       |       |
| 200     | 20.5  | 17.1  | 25.7  |       |
| 203     | 20.0  | 14.6  | 21.8  |       |





#79

Terphenyl-d14

Concen: 15.294 ng

RT: 12.82 min Scan# 1825

Delta R.T. 0.01 min

Lab File: BF113180.D

Acq: 20 Mar 2019 19:29

Instrument :

BNA\_F

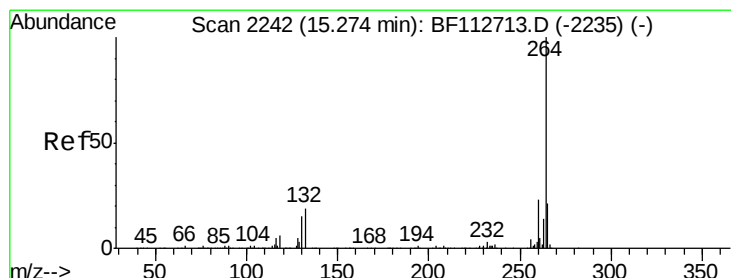
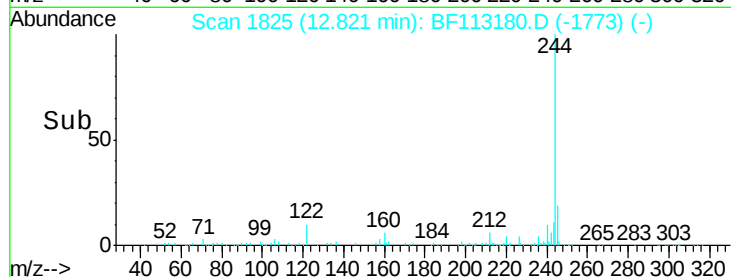
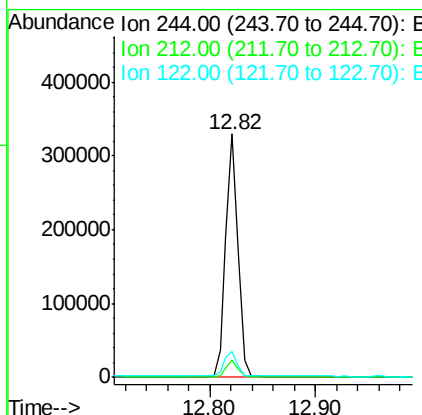
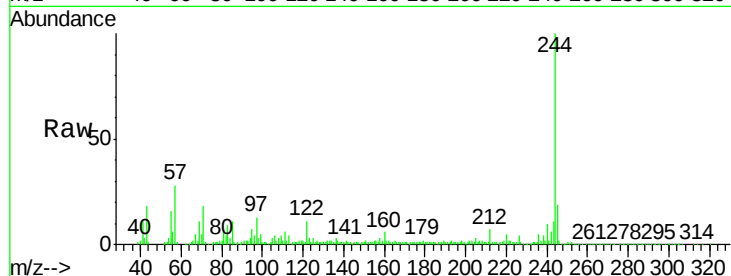
ClientSampleId :

30206-10

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 244   | Resp: | 269561 |
| Ion Ratio | Lower | Upper |        |
| 244       | 100   |       |        |
| 212       | 6.8   | 5.7   | 8.5    |
| 122       | 10.5  | 9.4   | 14.2   |

Manual Integrations  
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#87

Perylene-d12

Concen: 20.000 ng

RT: 15.28 min Scan# 2243

Delta R.T. 0.01 min

Lab File: BF113180.D

Acq: 20 Mar 2019 19:29

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 264   | Resp: | 276447 |
| Ion Ratio | Lower | Upper |        |
| 264       | 100   |       |        |
| 260       | 23.2  | 19.2  | 28.8   |
| 265       | 21.2  | 17.7  | 26.5   |

