

Data Path : Z:\HPCHEM1\BNA F\DATA\BF120417\  
 Data File : BF101091.D  
 Acq On : 4 Dec 2017 12:15  
 Operator : SJ/JU  
 Sample : I6616-01RE  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 P7-LOT-SP1-CRE

Manual Integrations  
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Quant Time: Dec 04 15:46:12 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 04 13:07:49 2017  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.85  | 152  | 53316    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.13  | 136  | 206981   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.88  | 164  | 98265    | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.37 | 188  | 174968   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12               | 14.02 | 240  | 122306   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12               | 15.49 | 264  | 126671   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.47  | 112  | 312273   | 96.78 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.48  | 99   | 384341   | 98.11 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.41  | 82   | 237578   | 68.47 | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 10.67 | 330  | 103231   | 87.45 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 9.20  | 172  | 457768   | 63.74 | ng    | 0.00     |
| 78) Terphenyl-d14              | 12.96 | 244  | 353881   | 63.29 | ng    | 0.00     |
| Target Compounds               |       |      |          |       |       | Qvalue   |
| 49) Dimethylphthalate          | 9.59  | 163  | 26087    | 3.29  | ng    | 99       |
| 74) Fluoranthene               | 12.59 | 202  | 29354    | 2.75  | ng    | 94       |
| 77) Pyrene                     | 12.82 | 202  | 26090    | 3.09  | ng    | 99       |
| 82) Chrysene                   | 14.04 | 228  | 18000m   | 2.51  | ng    |          |
| 83) Bis(2-ethylhexyl)phthalate | 13.98 | 149  | 16261    | 3.07  | ng    | 99       |
| 85) Indeno(1,2,3-cd)pyrene     | 16.96 | 276  | 13260    | 2.08  | ng    | 90       |
| 87) Benzo(b)fluoranthene       | 15.06 | 252  | 27421m   | 3.61  | ng    |          |
| 89) Benzo(a)pyrene             | 15.42 | 252  | 17160    | 2.49  | ng    | # 89     |
| 91) Benzo(g,h,i)perylene       | 17.42 | 276  | 13123    | 2.29  | ng    | # 90     |

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

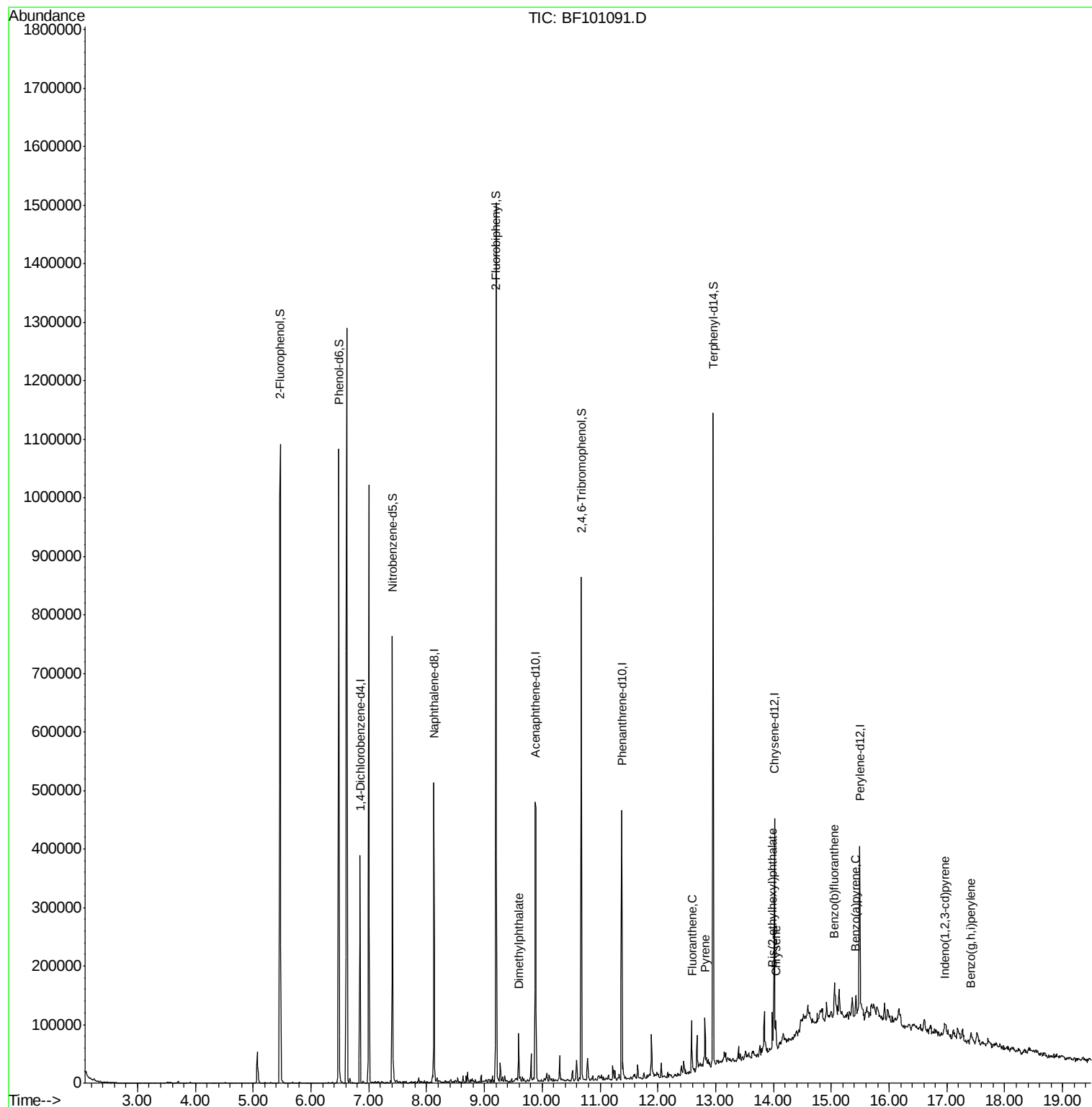
Data Path : Z:\HPCHEM1\BNA F\DATA\BF120417\  
Data File : BF101091.D  
Acq On : 4 Dec 2017 12:15  
Operator : SJ/JU  
Sample : I6616-01RE  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

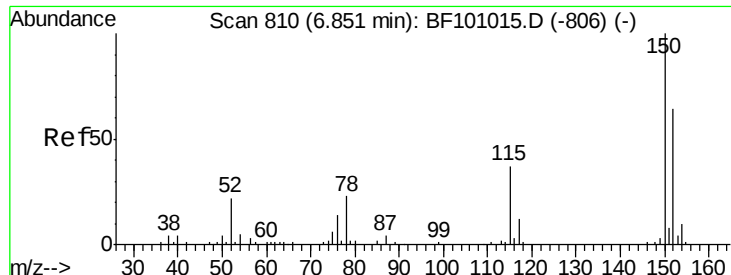
Instrument :  
BNA\_F  
ClientSampleId :  
P7-LOT-SP1-CRE

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Quant Time: Dec 04 15:46:12 2017  
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Dec 04 13:07:49 2017  
Response via : Initial Calibration





#1

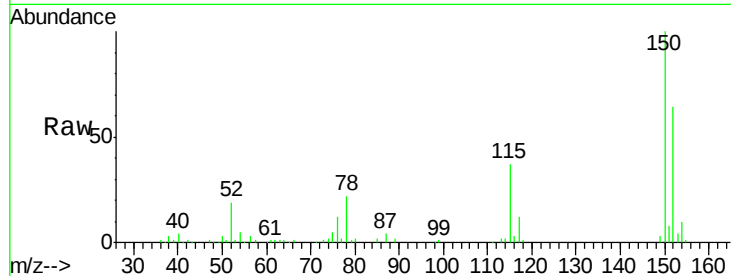
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.85 min Scan# 809  
Delta R.T. 0.00 min  
Lab File: BF101091.D  
Acq: 4 Dec 2017 12:15

Instrument :  
BNA\_F  
ClientSampleId :  
P7-LOT-SP1-CRE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.0 | 124.6 | 186.8 |
| 115     | 57.5  | 50.1  | 75.1  |

Manual Integrations  
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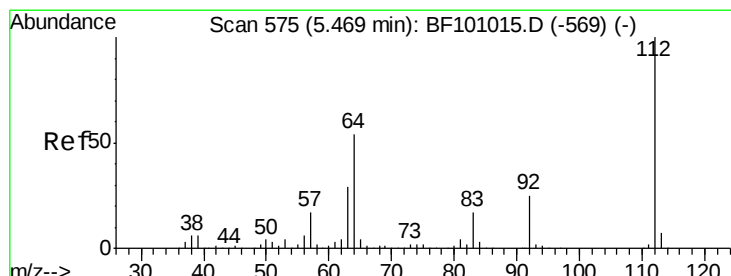
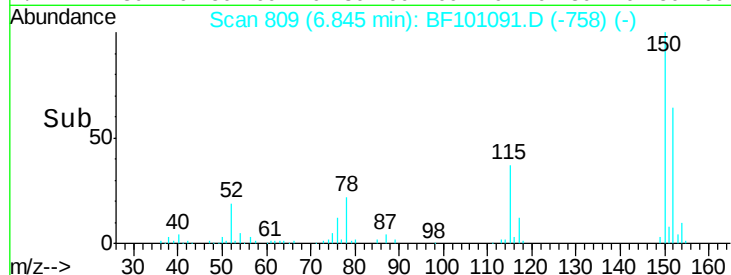
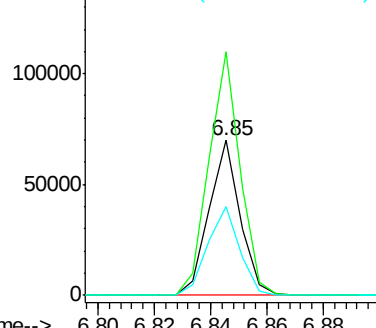


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

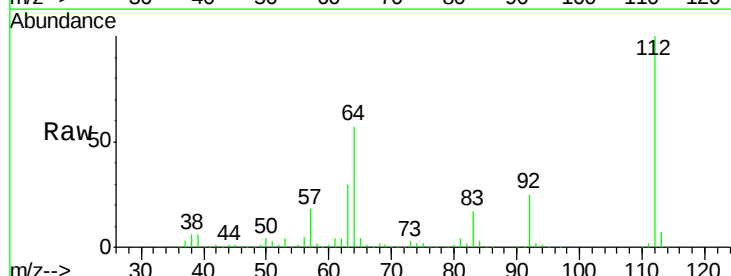
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 96.78 ng  
RT: 5.47 min Scan# 575  
Delta R.T. 0.01 min  
Lab File: BF101091.D  
Acq: 4 Dec 2017 12:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.1  | 47.9  | 71.9  |
| 63      | 29.7  | 23.7  | 35.5  |

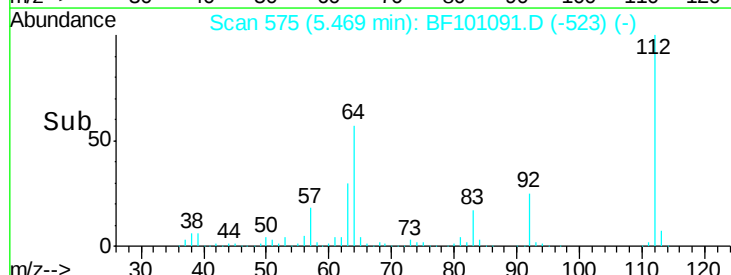
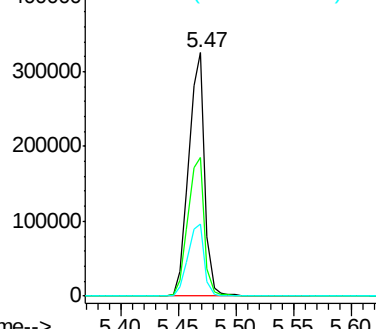


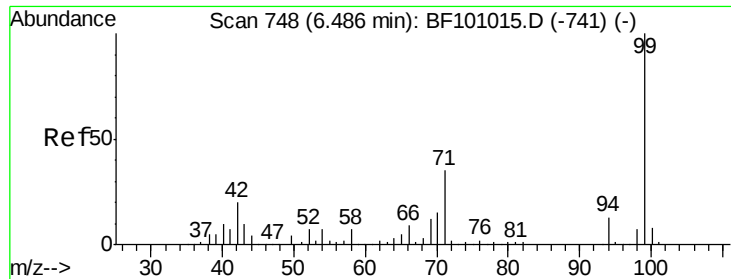
Abundance

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: 98.11 ng

RT: 6.48 min Scan# 747

Delta R.T. 0.00 min

Lab File: BF101091.D

Acq: 4 Dec 2017 12:15

Instrument :

BNA\_F

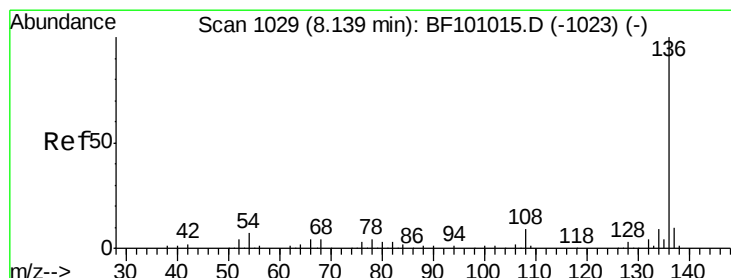
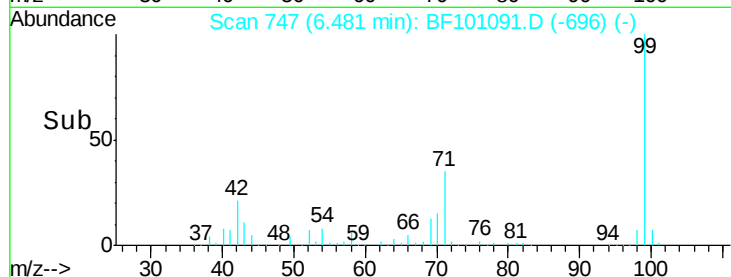
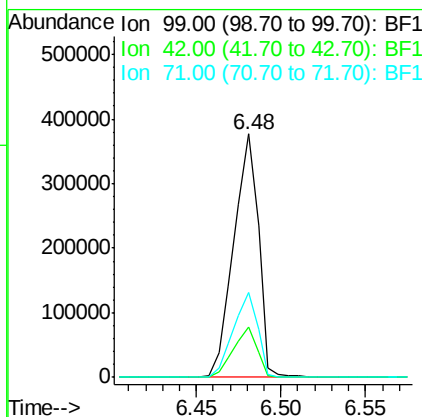
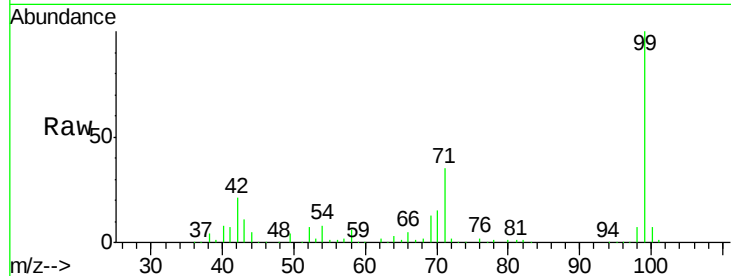
ClientSampleId :

P7-LOT-SP1-CRE

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 99      | 100  |       | 384341 |       |       |
| 42      | 20.6 | 14.5  | 21.7   |       |       |
| 71      | 35.1 | 25.4  | 38.0   |       |       |

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#21

Naphthalene-d8

Concen: 20.00 ng

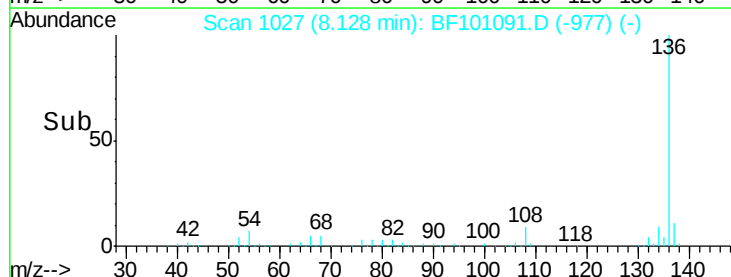
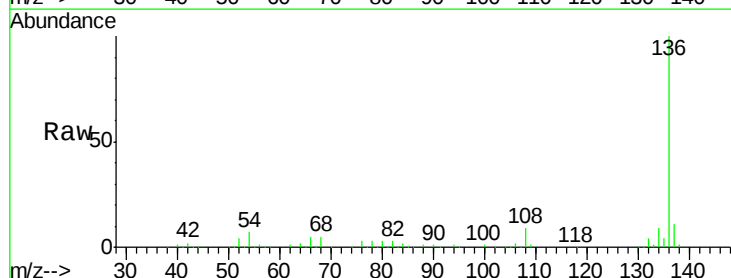
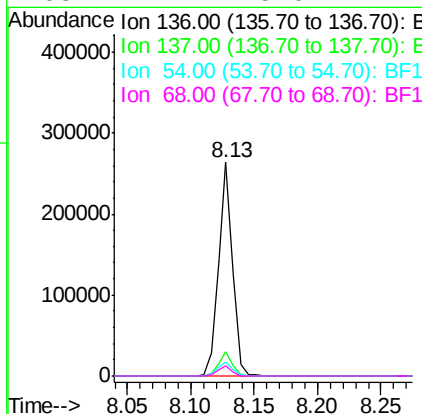
RT: 8.13 min Scan# 1027

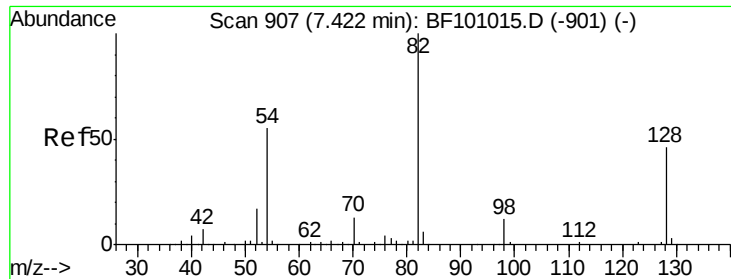
Delta R.T. -0.01 min

Lab File: BF101091.D

Acq: 4 Dec 2017 12:15

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 206981 |       |       |
| 137     | 11.2 | 8.9   | 13.3   |       |       |
| 54      | 6.8  | 6.6   | 9.8    |       |       |
| 68      | 4.7  | 5.0   | 7.4#   |       |       |





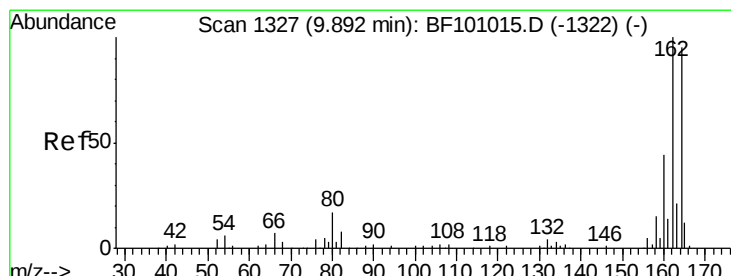
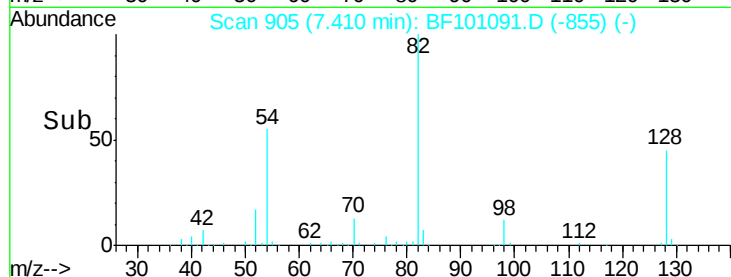
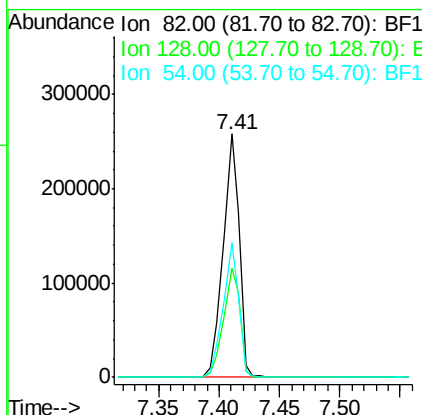
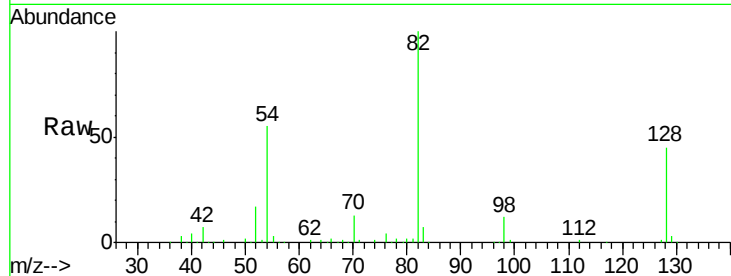
#23  
Nitrobenzene-d5  
Concen: 68.47 ng  
RT: 7.41 min Scan# 905  
Delta R.T. -0.01 min  
Lab File: BF101091.D  
Acq: 4 Dec 2017 12:15

Instrument :  
BNA\_F  
ClientSampleId :  
P7-LOT-SP1-CRE

| Tot Ion   | 82   | Resp  | 237578 |
|-----------|------|-------|--------|
| Ion Ratio | 100  | Lower | Upper  |
| 128       | 44.9 | 36.1  | 54.1   |
| 54        | 55.1 | 41.4  | 62.2   |

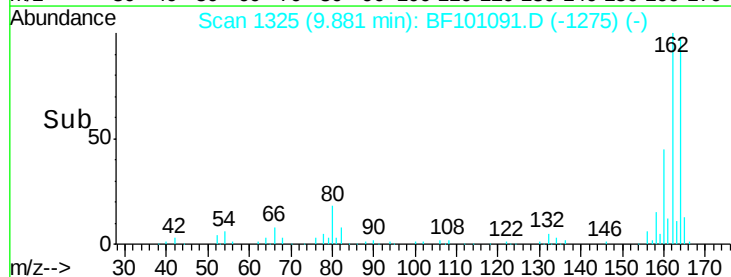
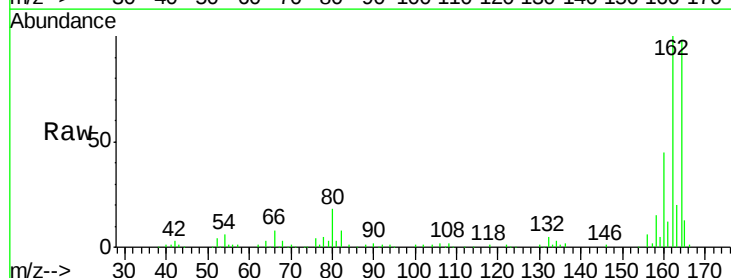
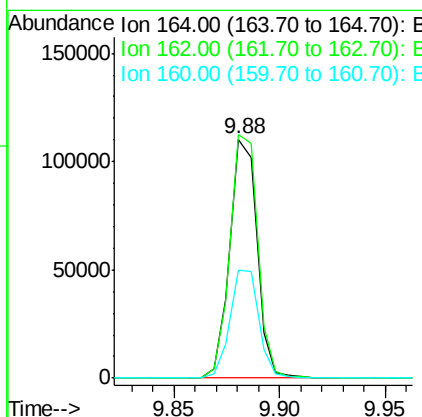
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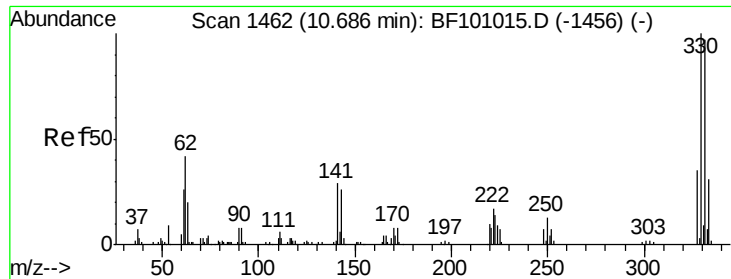
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#38  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.88 min Scan# 1325  
Delta R.T. -0.01 min  
Lab File: BF101091.D  
Acq: 4 Dec 2017 12:15

| Tgt Ion   | 164   | Resp  | 98265 |
|-----------|-------|-------|-------|
| Ion Ratio | 100   | Lower | Upper |
| 162       | 101.8 | 86.1  | 129.1 |
| 160       | 45.3  | 38.3  | 57.5  |





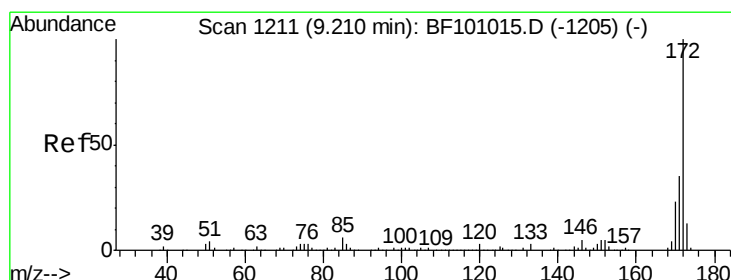
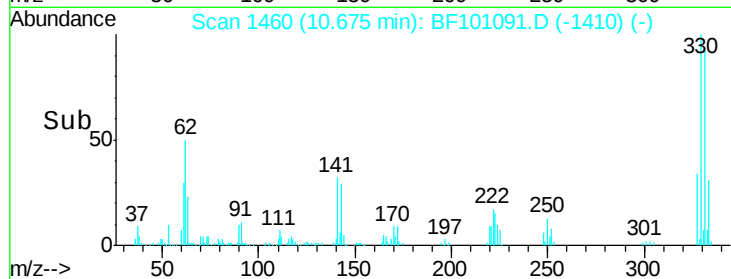
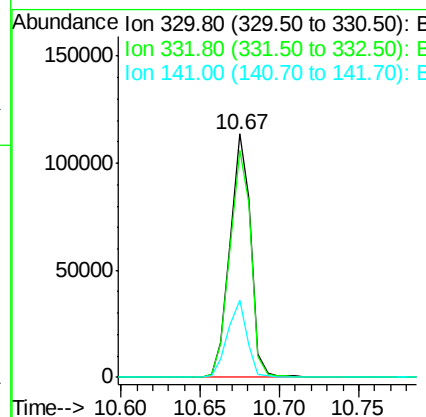
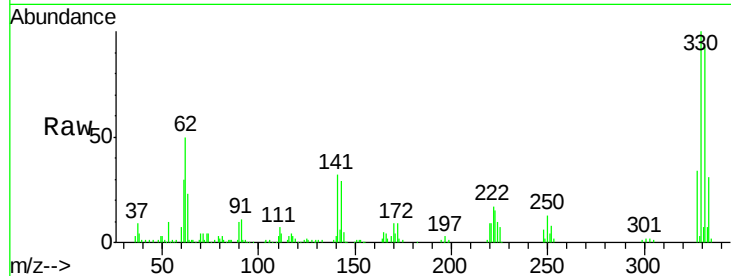
#41  
 2,4,6-Tribromophenol  
 Concen: 87.45 ng  
 RT: 10.67 min Scan# 1460  
 Delta R.T. -0.01 min  
 Lab File: BF101091.D  
 Acq: 4 Dec 2017 12:15

Instrument :  
 BNA\_F  
 ClientSampleId :  
 P7-LOT-SP1-CRE

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 103231 |       |       |
| 332     | 94.9  | 77.0   | 115.6 |       |
| 141     | 30.0  | 29.9   | 44.9  |       |

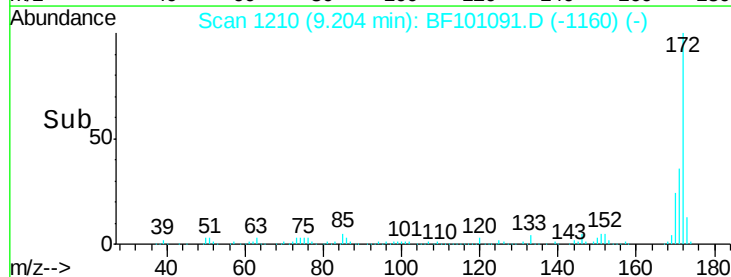
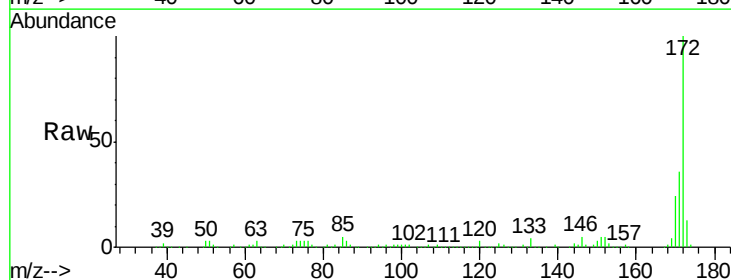
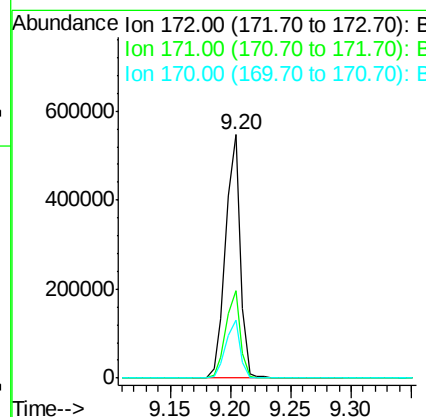
Manual Integrations  
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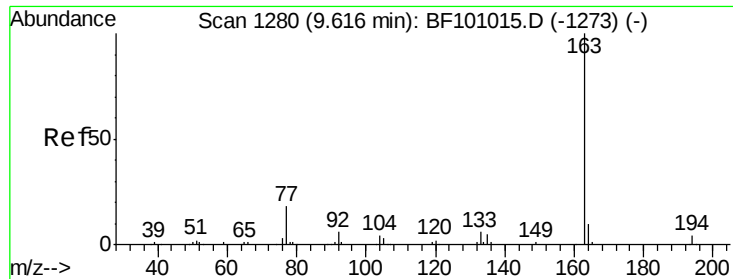
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#44  
 2-Fluorobiphenyl  
 Concen: 63.74 ng  
 RT: 9.20 min Scan# 1210  
 Delta R.T. -0.01 min  
 Lab File: BF101091.D  
 Acq: 4 Dec 2017 12:15

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 457768 |       |       |
| 171     | 36.1  | 29.7   | 44.5  |       |
| 170     | 23.9  | 19.6   | 29.4  |       |





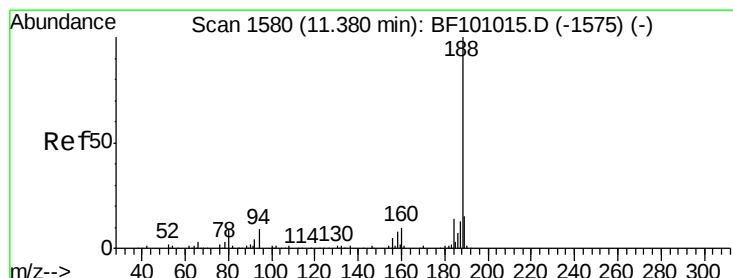
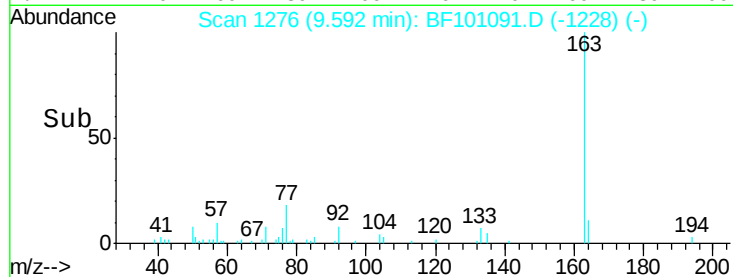
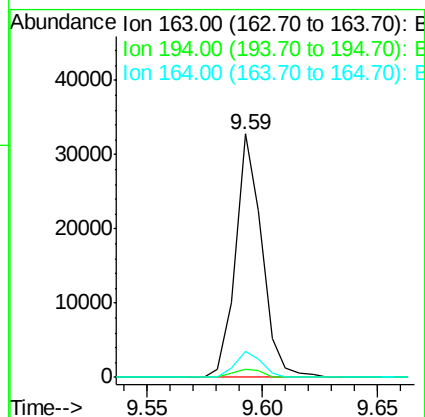
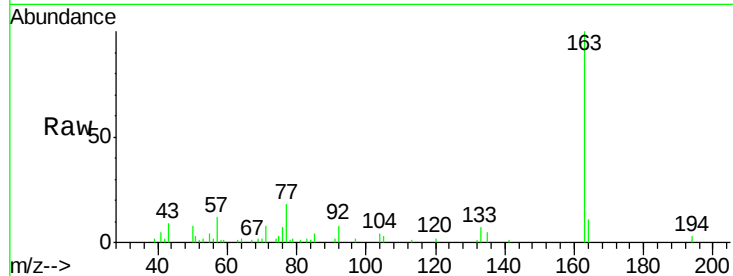
#49  
Dimethylphthalate  
Concen: 3.29 ng  
RT: 9.59 min Scan# 1276  
Delta R.T. -0.02 min  
Lab File: BF101091.D  
Acq: 4 Dec 2017 12:15

Instrument :  
BNA\_F  
ClientSampleId :  
P7-LOT-SP1-CRE

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 163   | Resp: | 26087 |
| Ion Ratio | Lower | Upper |       |
| 163       | 100   |       |       |
| 194       | 3.4   | 2.7   | 4.1   |
| 164       | 10.7  | 8.2   | 12.2  |

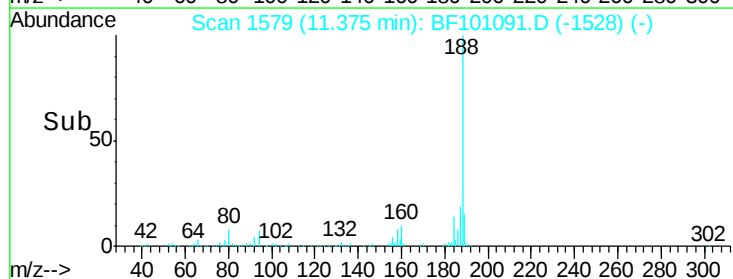
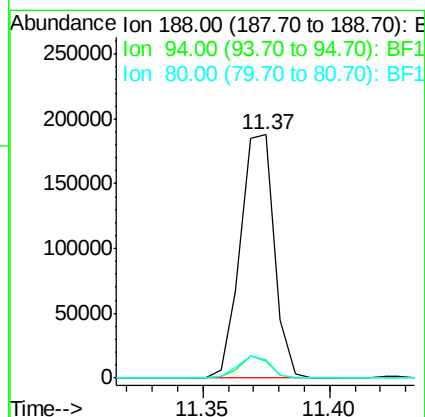
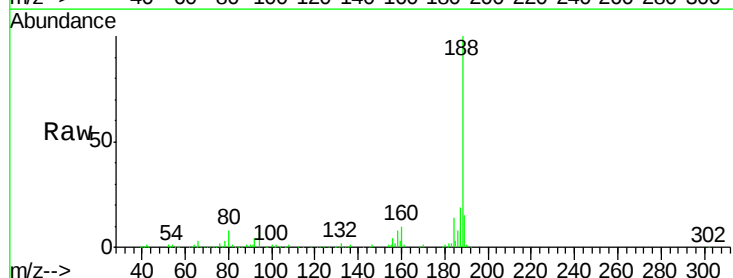
Manual Integrations  
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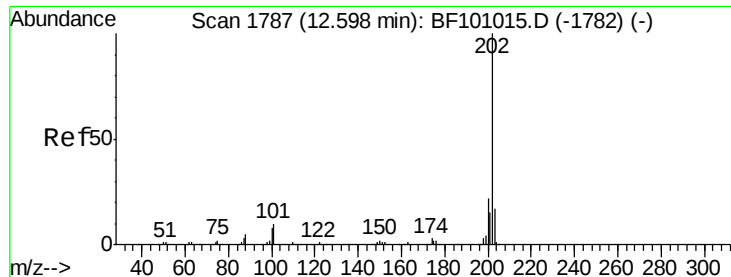
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#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.37 min Scan# 1579  
Delta R.T. 0.00 min  
Lab File: BF101091.D  
Acq: 4 Dec 2017 12:15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 188   | Resp: | 174968 |
| Ion Ratio | Lower | Upper |        |
| 188       | 100   |       |        |
| 94        | 7.3   | 8.5   | 12.7#  |
| 80        | 7.6   | 9.2   | 13.8#  |





#74

Fluoranthene

Concen: 2.75 ng

RT: 12.59 min Scan# 1785

Delta R.T. -0.01 min

Lab File: BF101091.D

Acq: 4 Dec 2017 12:15

Instrument :

BNA\_F

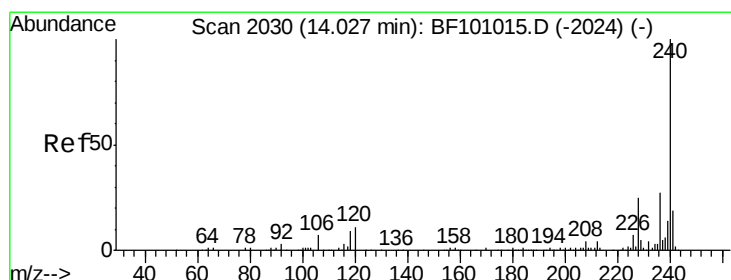
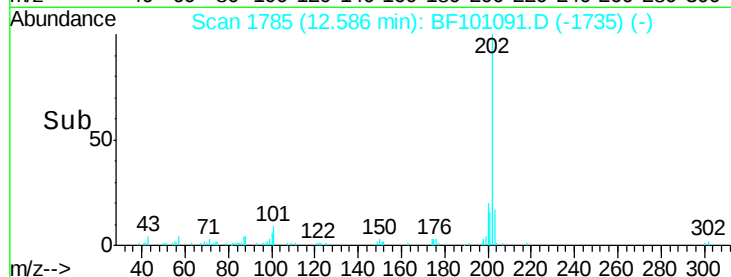
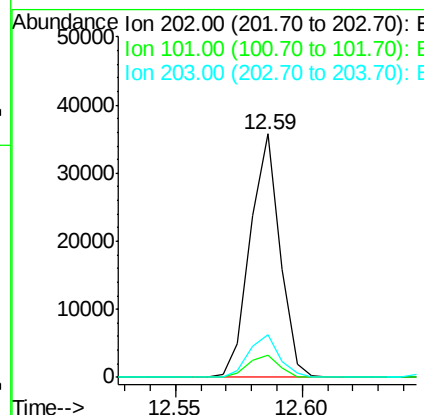
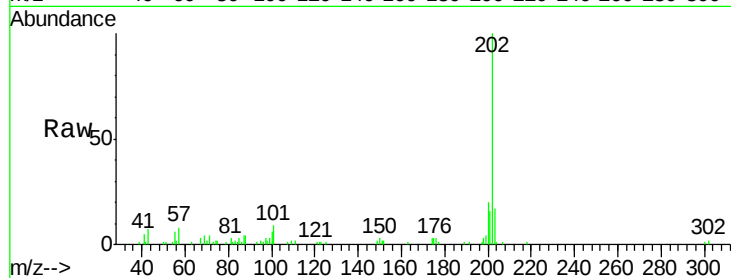
ClientSampleId :

P7-LOT-SP1-CRE

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 29354 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 9.1   | 0.0   | 34.1  |
| 203       | 17.3  | 0.0   | 38.1  |

Manual Integrations  
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#75

Chrysene-d12

Concen: 20.00 ng

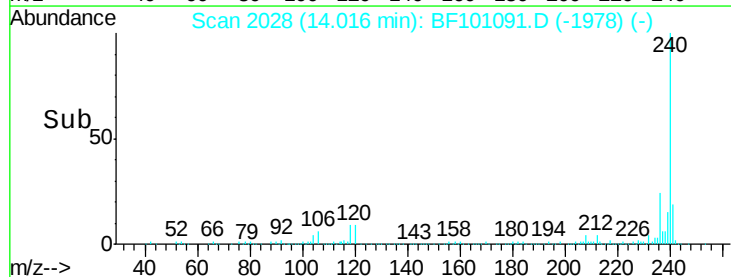
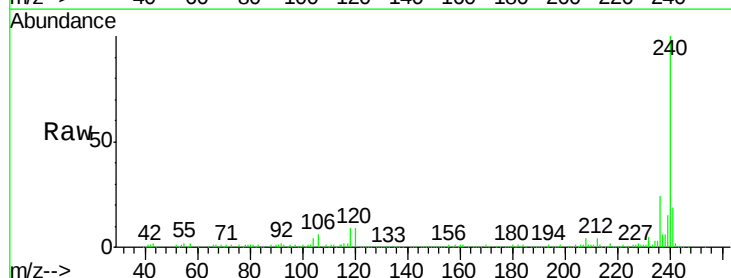
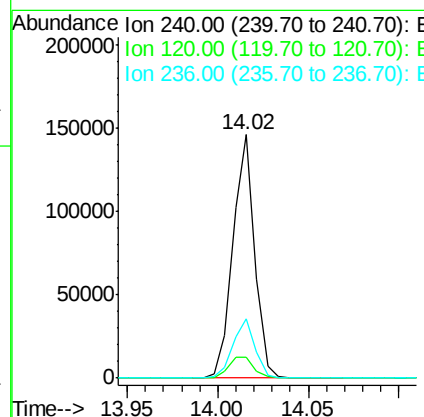
RT: 14.02 min Scan# 2028

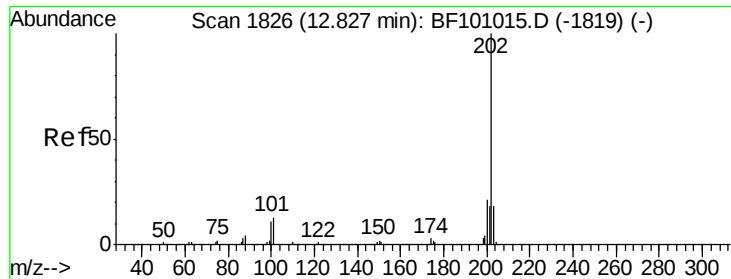
Delta R.T. -0.01 min

Lab File: BF101091.D

Acq: 4 Dec 2017 12:15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 122306 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 8.7   | 9.5   | 14.3#  |
| 236       | 24.4  | 20.7  | 31.1   |





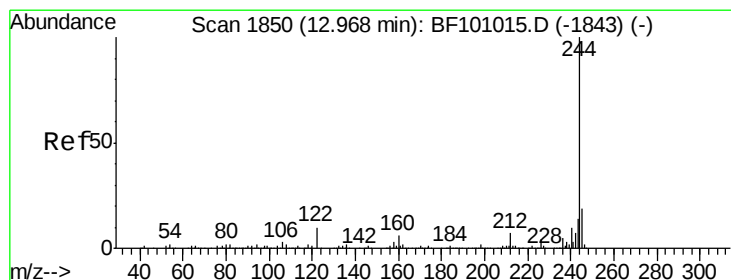
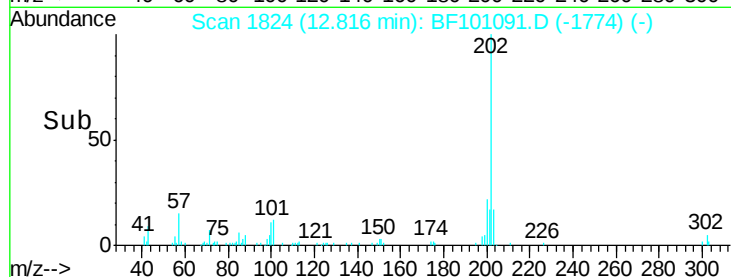
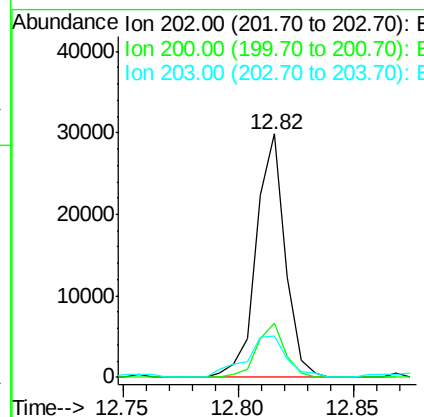
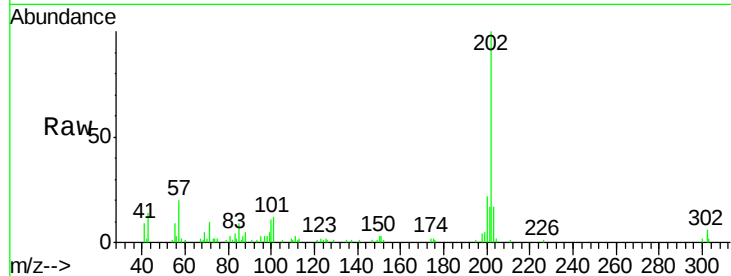
#77  
Pvrene  
Concen: 3.09 ng  
RT: 12.82 min Scan# 1824  
Delta R.T. -0.01 min  
Lab File: BF101091.D  
Acq: 4 Dec 2017 12:15

Instrument :  
BNA\_F  
ClientSampleId :  
P7-LOT-SP1-CRE

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 26090 |       |       |
| 200     | 22.4  |       | 17.4  | 26.2  |
| 203     | 17.2  |       | 14.3  | 21.5  |

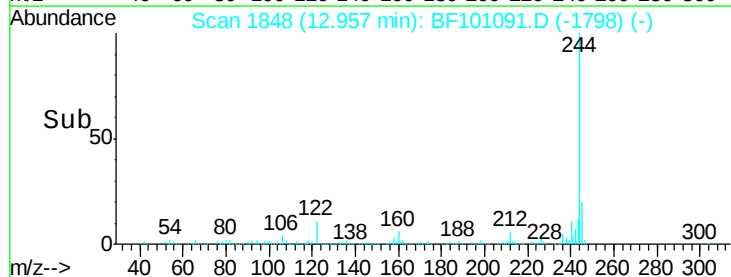
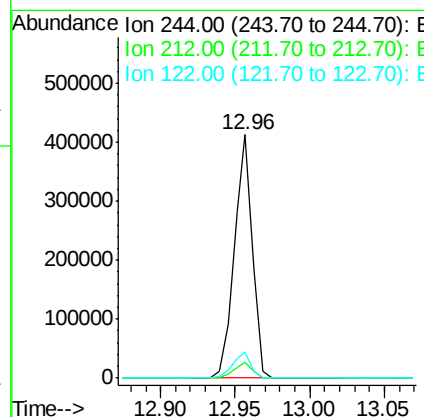
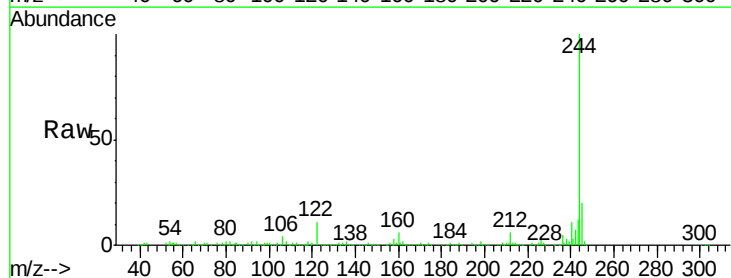
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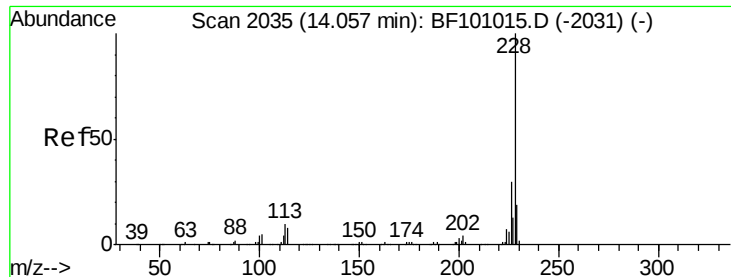
Sohil  
12/5/2017 3:24:07 PM



#78  
Terphenyl-d14  
Concen: 63.29 ng  
RT: 12.96 min Scan# 1848  
Delta R.T. -0.01 min  
Lab File: BF101091.D  
Acq: 4 Dec 2017 12:15

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 244     | 100   | 353881 |       |       |
| 212     | 6.5   |        | 5.4   | 8.0   |
| 122     | 10.6  |        | 11.0  | 16.4# |





#82

Chrysene

Concen: 2.51 ng/mL

RT: 14.04 min Scan# 2032

Delta R.T. -0.01 min

Lab File: BF101091.D

Acq: 4 Dec 2017 12:15

Instrument :

BNA\_F

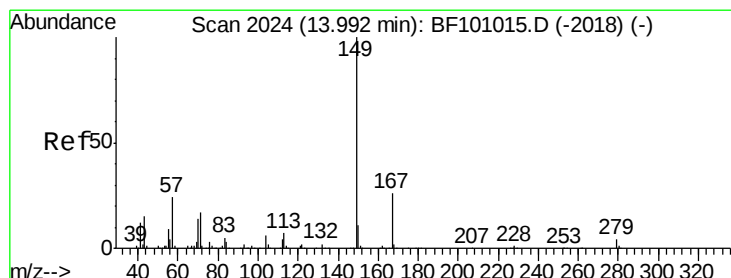
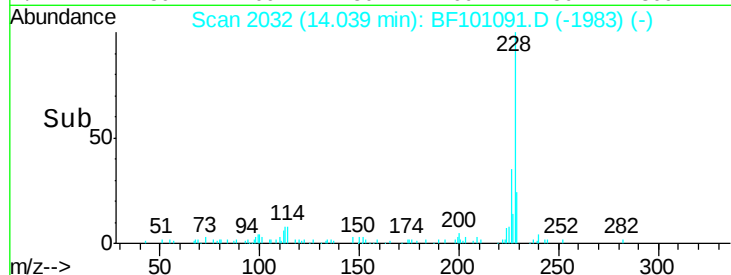
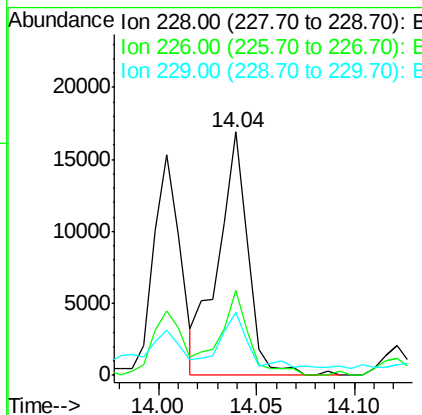
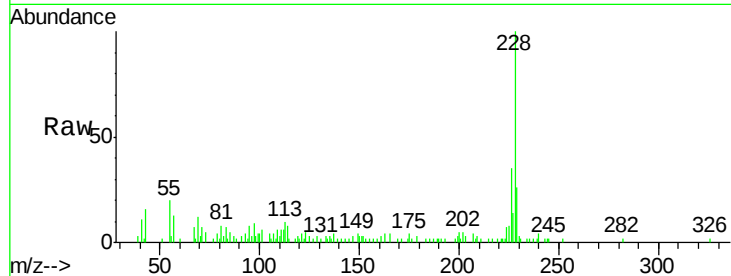
ClientSampleId :

P7-LOT-SP1-CRE

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 18000 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 35.1  | 25.0  | 37.6  |
| 229       | 25.9  | 16.2  | 24.4  |

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#83

Bis(2-ethylhexyl)phthalate

Concen: 3.07 ng/mL

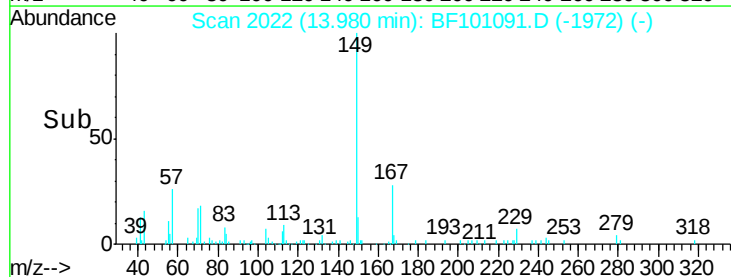
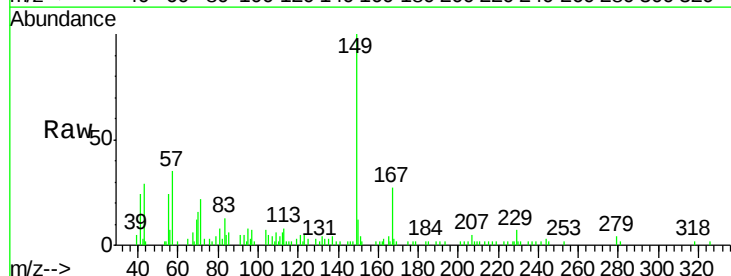
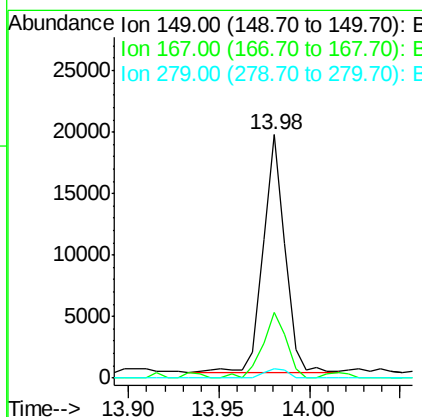
RT: 13.98 min Scan# 2022

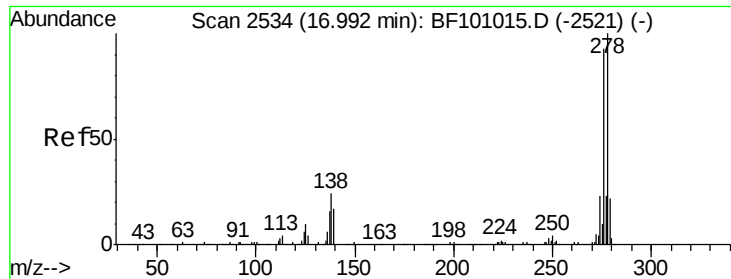
Delta R.T. -0.01 min

Lab File: BF101091.D

Acq: 4 Dec 2017 12:15

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 149   | Resp: | 16261 |
| Ion Ratio | Lower | Upper |       |
| 149       | 100   |       |       |
| 167       | 27.1  | 21.3  | 31.9  |
| 279       | 3.8   | 3.0   | 4.4   |





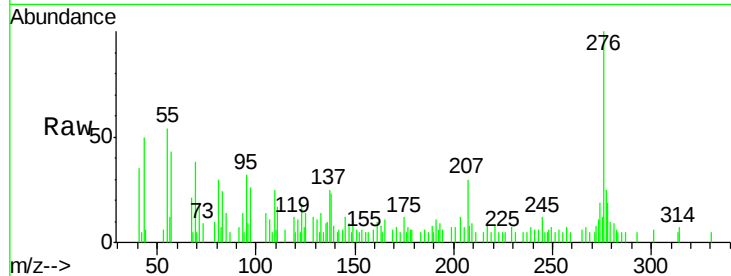
#85  
Indeno(1,2,3-cd)pyrene  
Concen: 2.08 ng  
RT: 16.96 min Scan# 2529  
Delta R.T. -0.01 min  
Lab File: BF101091.D  
Acq: 4 Dec 2017 12:15

Instrument :  
BNA\_F  
ClientSampleId :  
P7-LOT-SP1-CRE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 36.9  | 25.0  | 37.6  |
| 277     | 29.9  | 20.1  | 30.1  |

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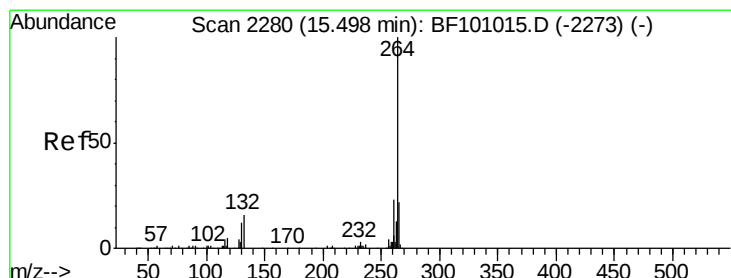
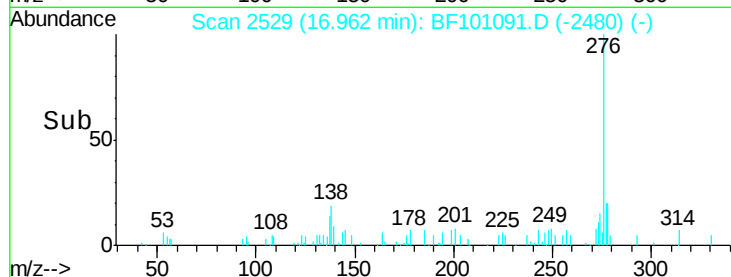
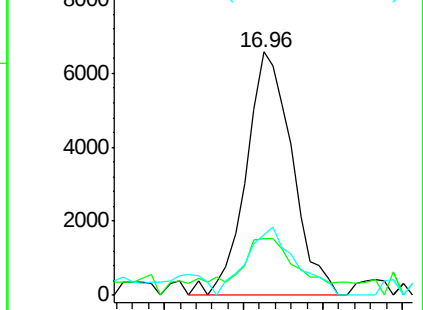


Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.49 min Scan# 2279  
Delta R.T. 0.00 min  
Lab File: BF101091.D  
Acq: 4 Dec 2017 12:15

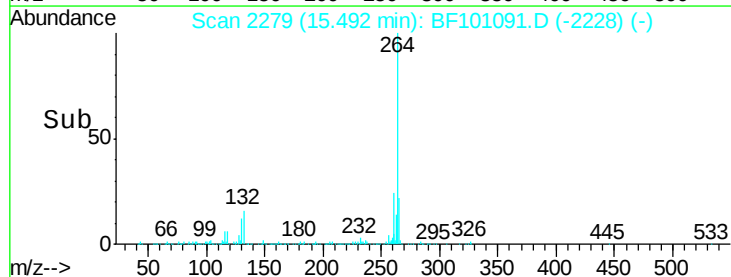
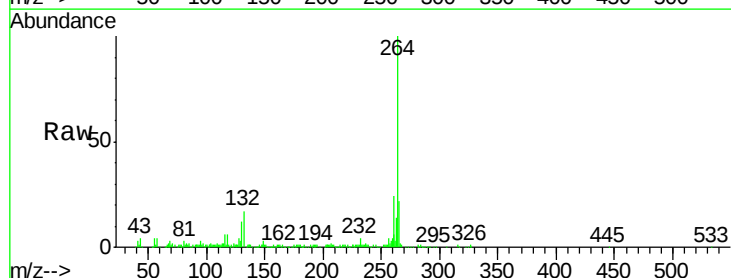
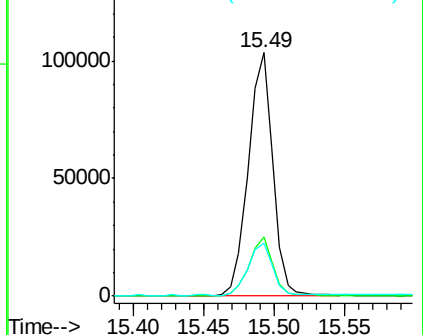
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.3  | 19.2  | 28.8  |
| 265     | 21.7  | 17.5  | 26.3  |

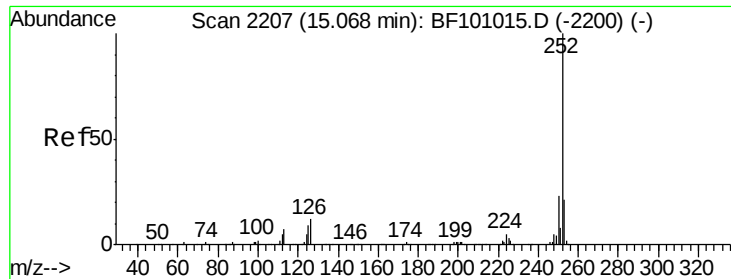
Abundance

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





#87

Benzo(b)fluoranthene

Concen: 3.61 ng

RT: 15.06 min Scan# 2205

Delta R.T. -0.01 min

Lab File: BF101091.D

Acq: 4 Dec 2017 12:15

Instrument :

BNA\_F

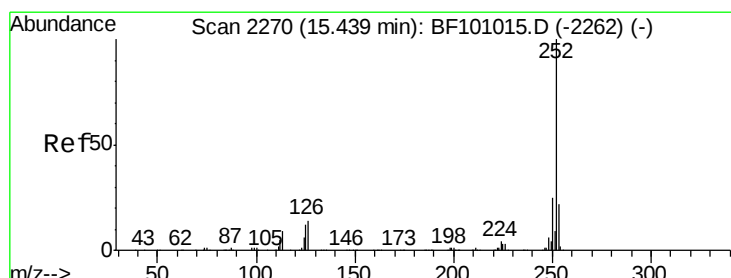
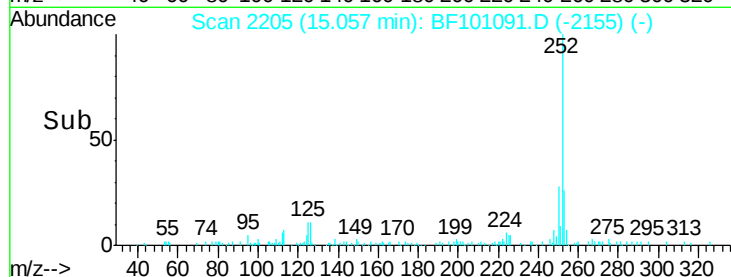
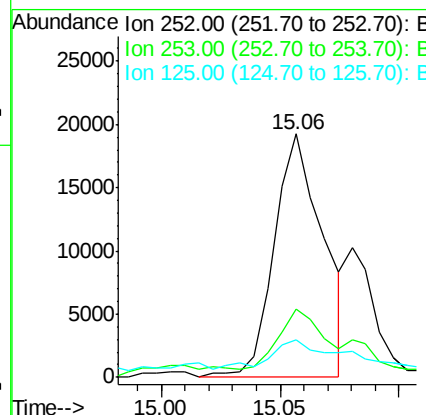
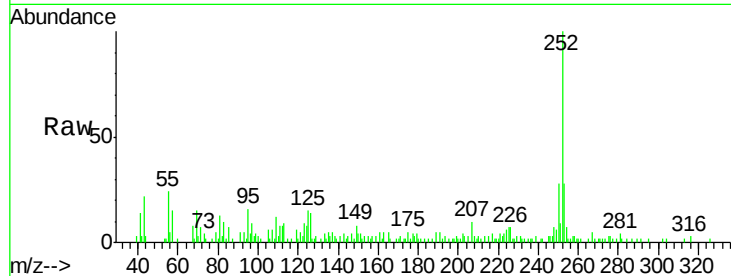
ClientSampleId :

P7-LOT-SP1-CRE

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 27421 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 28.0  | 17.0  | 25.6# |
| 125       | 15.4  | 9.0   | 13.6# |

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#89

Benzo(a)pyrene

Concen: 2.49 ng

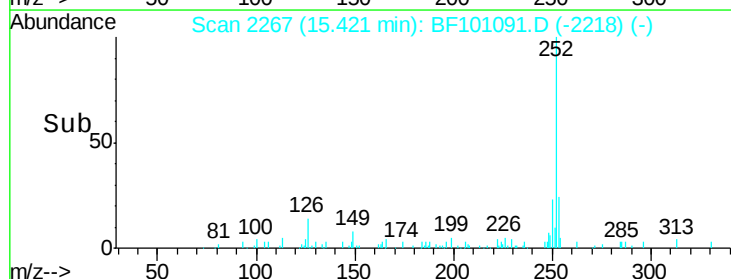
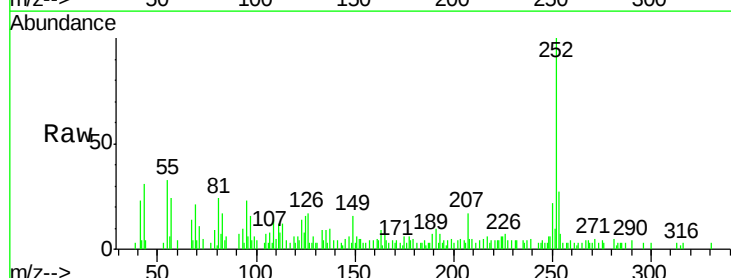
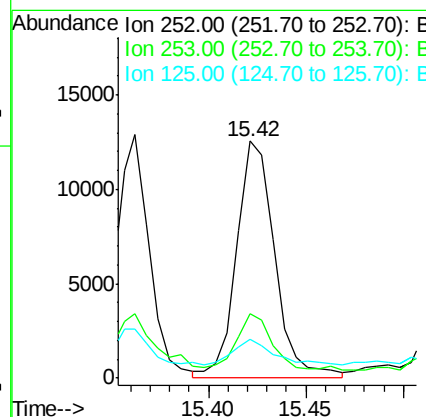
RT: 15.42 min Scan# 2267

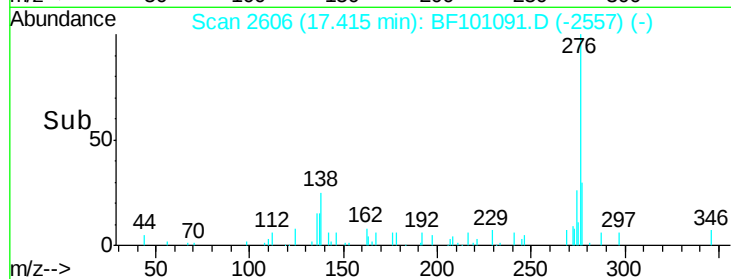
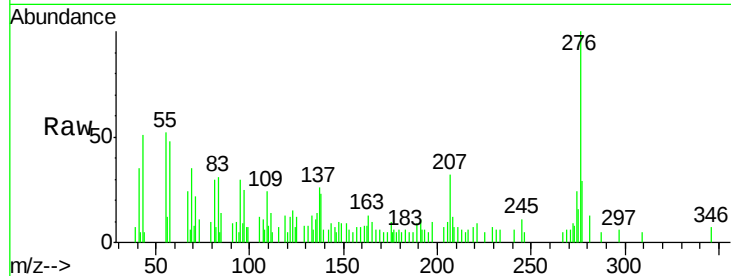
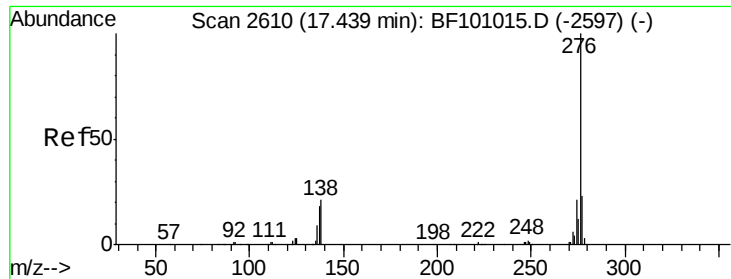
Delta R.T. -0.01 min

Lab File: BF101091.D

Acq: 4 Dec 2017 12:15

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 17160 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 27.1  | 17.1  | 25.7# |
| 125       | 16.3  | 9.8   | 14.6# |





#91  
 Benzo(a,h,i)perylene  
 Concen: 2.29 ng  
 RT: 17.42 min Scan# 2606  
 Delta R.T. -0.01 min  
 Lab File: BF101091.D  
 Acq: 4 Dec 2017 12:15

Instrument :  
 BNA\_F  
 ClientSampleId :  
 P7-LOT-SP1-CRE

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 28.7  | 17.9  | 26.9# |
| 138     | 23.5  | 21.8  | 32.8  |

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