

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120719\  
 Data File : BF118140.D  
 Acq On : 7 Dec 2019 20:21  
 Operator : JU  
 Sample : K6147-10  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 P001-WC010

Manual Integrations  
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mohammad  
 12/10/2019 11:49:48 AM

Quant Time: Dec 09 07:34:48 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Dec 06 17:34:43 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.87  | 152  | 137095   | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.15  | 136  | 536931   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10           | 9.92  | 164  | 273655   | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10           | 11.40 | 188  | 438895   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12               | 14.06 | 240  | 271943   | 20.00  | ng    | -0.01    |
| 87) Perylene-d12               | 15.56 | 264  | 268691   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.49  | 112  | 770144   | 98.39  | ng    | 0.00     |
| 7) Phenol-d6                   | 6.50  | 99   | 964282   | 101.85 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 7.43  | 82   | 583894   | 61.18  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol       | 10.71 | 330  | 277943   | 83.61  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl           | 9.23  | 172  | 1161054  | 64.56  | ng    | 0.00     |
| 79) Terphenyl-d14              | 13.00 | 244  | 951403   | 60.16  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 10) Phenol                     | 6.52  | 94   | 51524    | 4.772  | ng    | 98       |
| 50) Dimethylphthalate          | 9.63  | 163  | 151299   | 7.485  | ng    | 99       |
| 71) Phenanthrene               | 11.43 | 178  | 58566    | 2.510  | ng    | 99       |
| 75) Fluoranthene               | 12.62 | 202  | 49842    | 2.089  | ng    | 93       |
| 78) Pyrene                     | 12.86 | 202  | 60092    | 2.804  | ng    | 99       |
| 83) Chrysene                   | 14.08 | 228  | 49163    | 2.737  | ng    | # 86     |
| 84) Bis(2-ethylhexyl)phthalate | 14.03 | 149  | 299210   | 23.380 | ng    | # 99     |
| 88) Benzo(b)fluoranthene       | 15.12 | 252  | 43989m   | 2.475  | ng    |          |

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

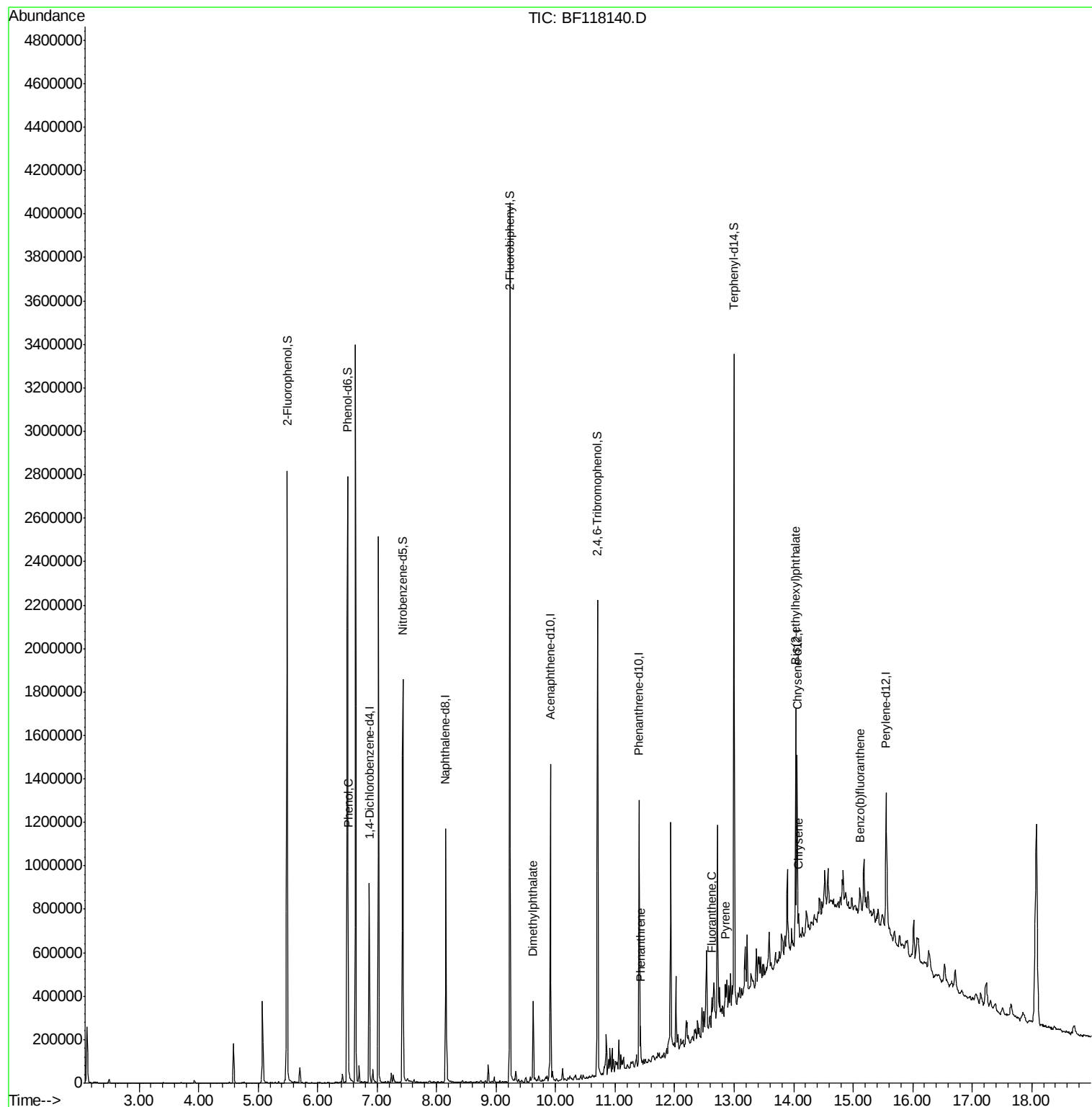
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120719\  
Data File : BF118140.D  
Acq On : 7 Dec 2019 20:21  
Operator : JU  
Sample : K6147-10  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
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Quant Time: Dec 09 07:34:48 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF120619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Dec 06 17:34:43 2019  
Response via : Initial Calibration





#1

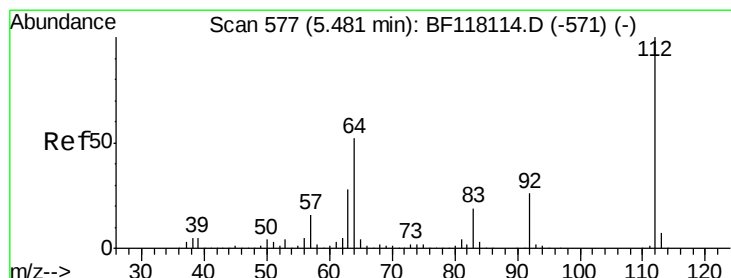
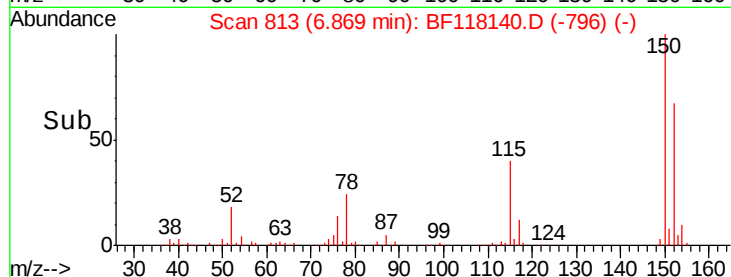
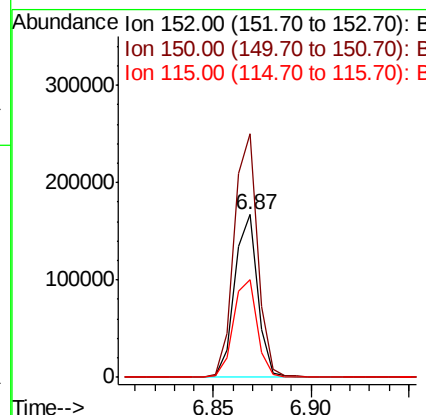
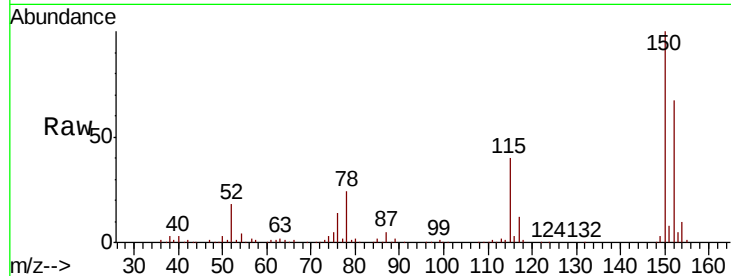
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.87 min Scan# 813  
Delta R.T. -0.00 min  
Lab File: BF118140.D  
Acq: 7 Dec 2019 20:21

Instrument :  
BNA\_F  
ClientSampleId :  
P001-WC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 149.7 | 128.3 | 192.5 |
| 115     | 60.2  | 51.1  | 76.7  |

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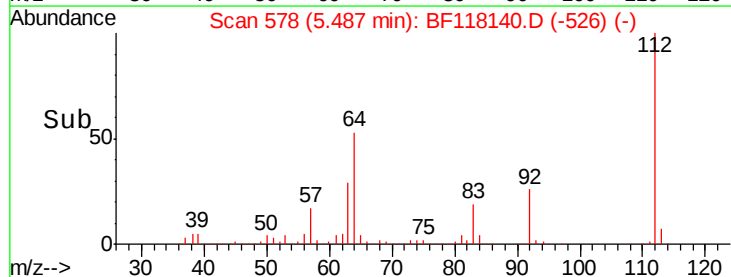
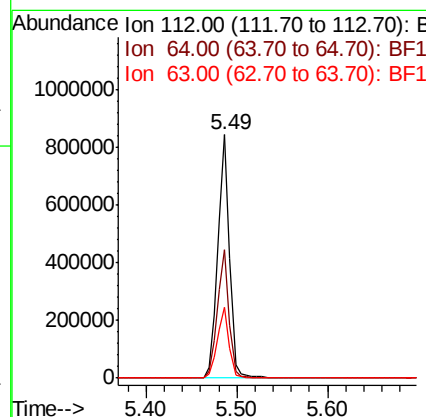
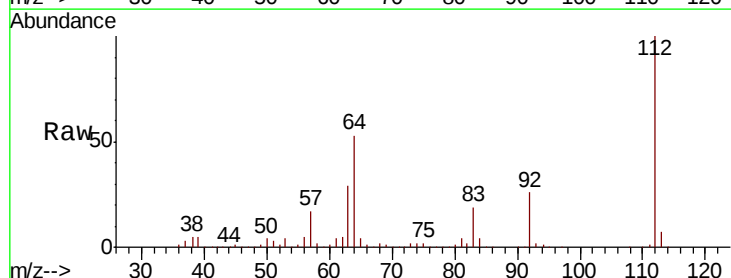
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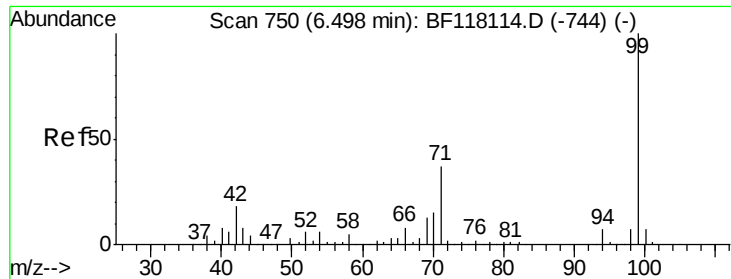


#5

2-Fluorophenol  
Concen: 98.390 ng  
RT: 5.49 min Scan# 578  
Delta R.T. 0.01 min  
Lab File: BF118140.D  
Acq: 7 Dec 2019 20:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 52.5  | 41.3  | 61.9  |
| 63      | 28.9  | 22.4  | 33.6  |





#7

Phenol-d6

Concen: 101.851 ng

RT: 6.50 min Scan# 751

Delta R.T. 0.01 min

Lab File: BF118140.D

Acq: 7 Dec 2019 20:21

Instrument :

BNA\_F

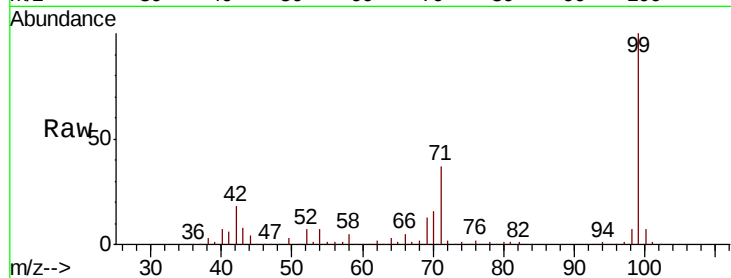
ClientSampleId :

P001-WC010

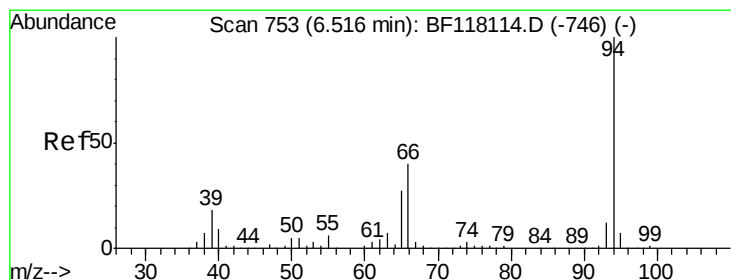
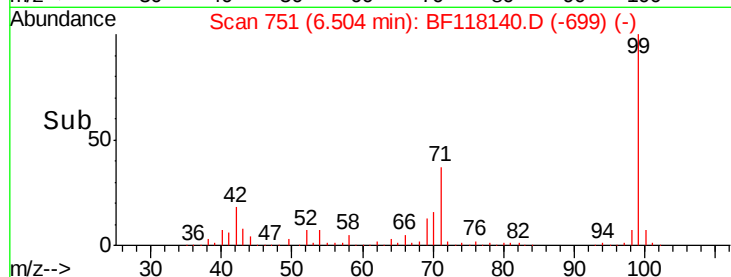
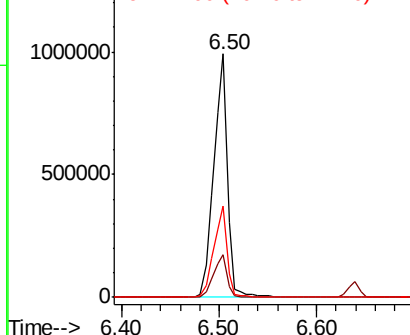
|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 99    | Resp: | 964282 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 17.6  | 14.1  | 21.1   |
| 71       | 37.3  | 29.7  | 44.5   |

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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



#10

Phenol

Concen: 4.772 ng

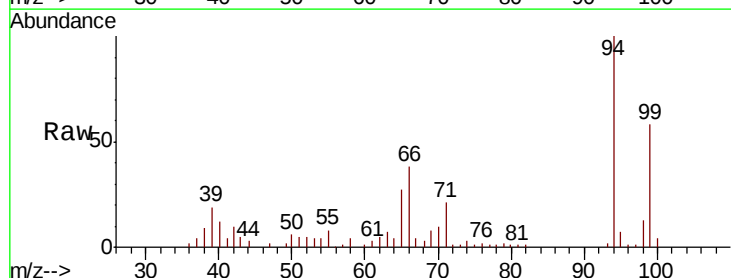
RT: 6.52 min Scan# 753

Delta R.T. -0.00 min

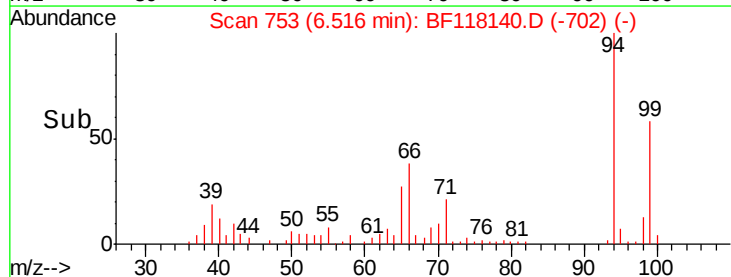
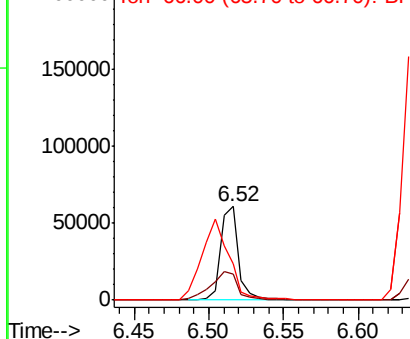
Lab File: BF118140.D

Acq: 7 Dec 2019 20:21

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 94    | Resp: | 51524 |
| Ion      | Ratio | Lower | Upper |
| 94       | 100   |       |       |
| 65       | 27.4  | 7.3   | 47.3  |
| 66       | 38.1  | 20.2  | 60.2  |



Abundance Ion 94.00 (93.70 to 94.70): BF1  
Ion 65.00 (64.70 to 65.70): BF1  
Ion 66.00 (65.70 to 66.70): BF1





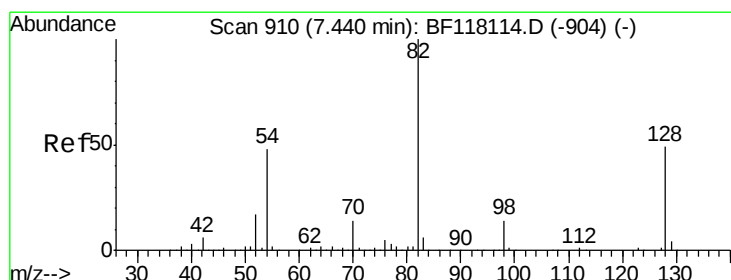
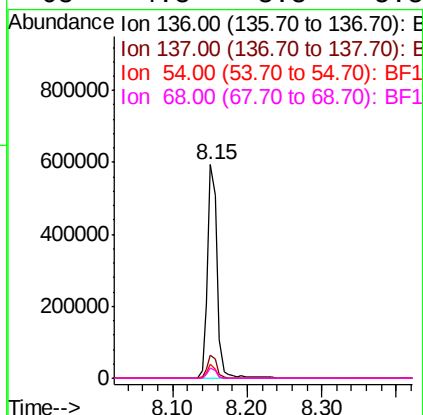
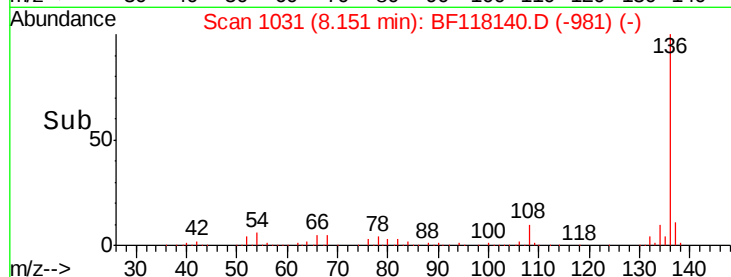
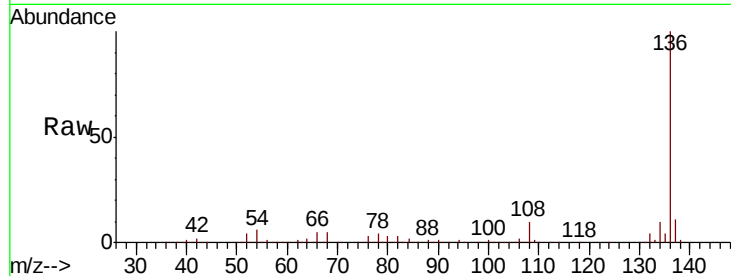
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.15 min Scan# 1031  
Delta R.T. -0.01 min  
Lab File: BF118140.D  
Acq: 7 Dec 2019 20:21

Instrument :  
BNA\_F  
ClientSampleId :  
P001-WC010

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 136     | 100   | 536931 |       |       |
| 137     | 10.9  |        | 9.0   | 13.6  |
| 54      | 6.4   |        | 5.0   | 7.6   |
| 68      | 4.8   |        | 3.8   | 5.8   |

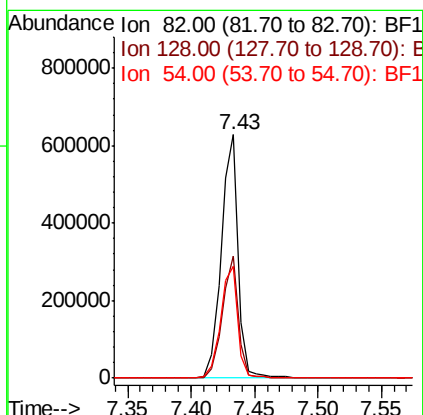
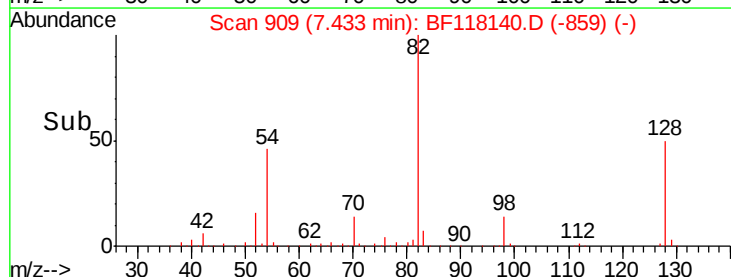
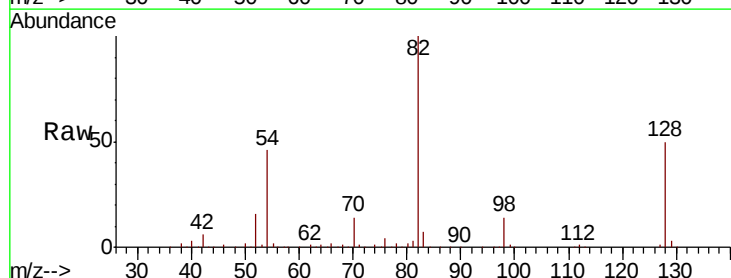
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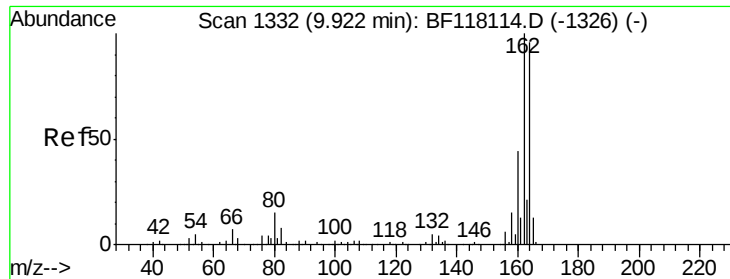
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#23  
Nitrobenzene-d5  
Concen: 61.178 ng  
RT: 7.43 min Scan# 909  
Delta R.T. -0.01 min  
Lab File: BF118140.D  
Acq: 7 Dec 2019 20:21

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 583894 |       |       |
| 128     | 50.3  |        | 39.1  | 58.7  |
| 54      | 46.0  |        | 38.2  | 57.2  |





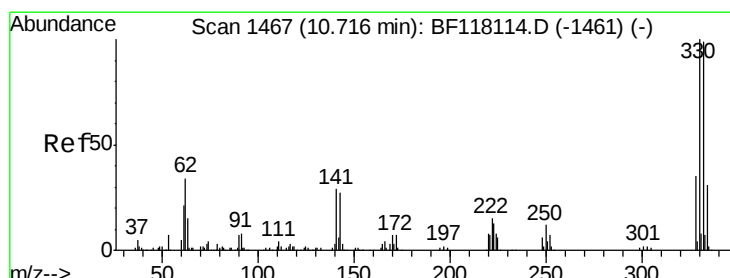
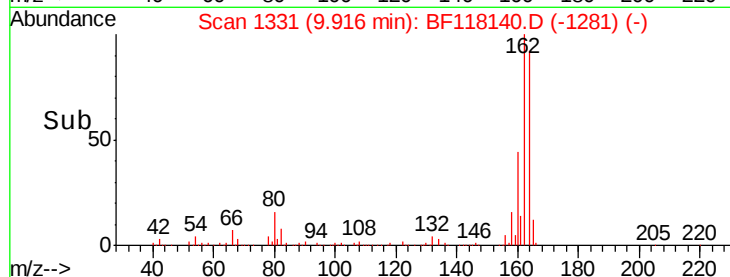
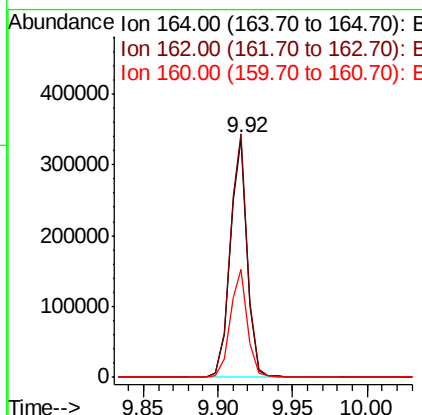
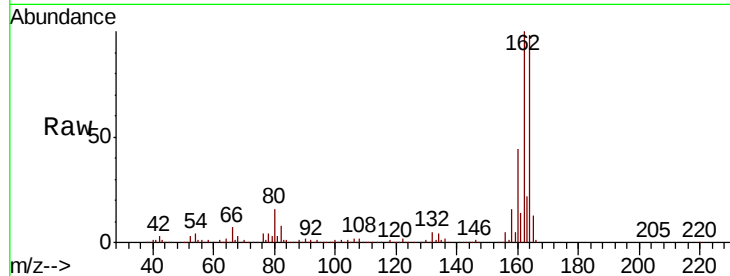
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.92 min Scan# 1331  
Delta R.T. -0.01 min  
Lab File: BF118140.D  
Acq: 7 Dec 2019 20:21

Instrument :  
BNA\_F  
ClientSampleId :  
P001-WC010

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 102.0 | 83.4 | 125.0 |       |
| 160     | 45.0  | 36.6 | 54.8  |       |

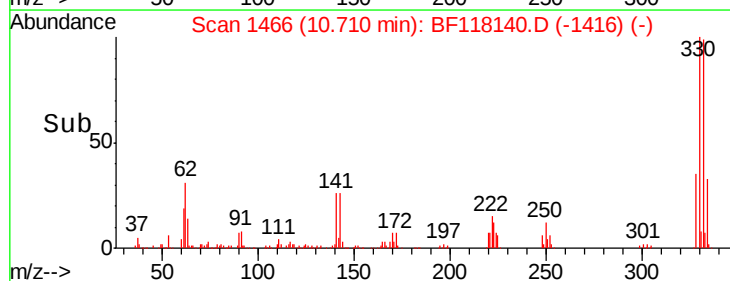
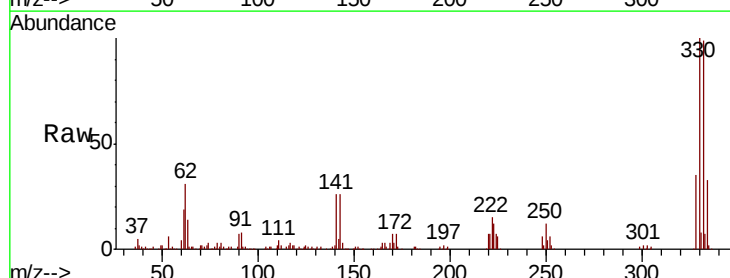
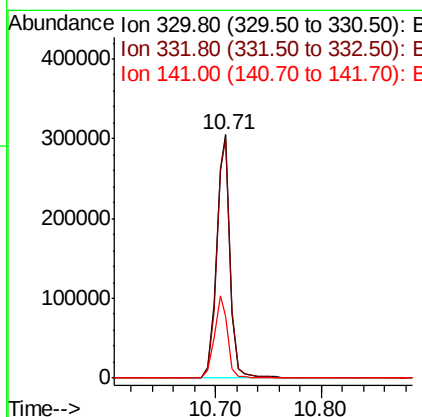
Manual Integrations  
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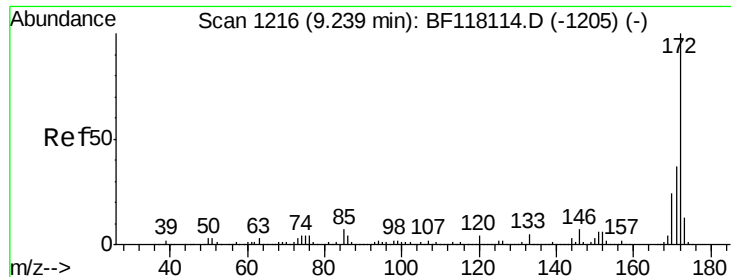
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#42  
2,4,6-Tribromophenol  
Concen: 83.607 ng  
RT: 10.71 min Scan# 1466  
Delta R.T. -0.01 min  
Lab File: BF118140.D  
Acq: 7 Dec 2019 20:21

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 98.4  | 78.1 | 117.1 |       |
| 141     | 33.9  | 26.9 | 40.3  |       |





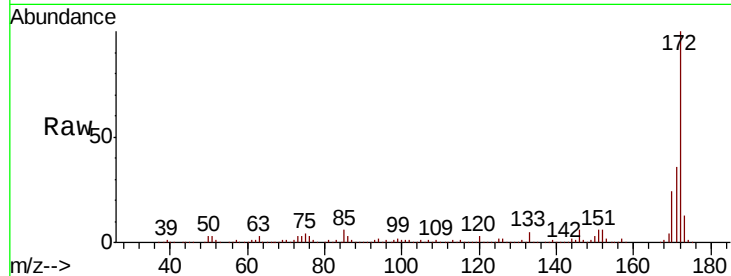
#45  
2-Fluorobiphenyl  
Concen: 64.560 ng  
RT: 9.23 min Scan# 1215  
Delta R.T. -0.01 min  
Lab File: BF118140.D  
Acq: 7 Dec 2019 20:21

Instrument :  
BNA\_F  
ClientSampleId :  
P001-WC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.9  | 29.2  | 43.8  |
| 170     | 24.0  | 19.4  | 29.2  |

Manual Integrations  
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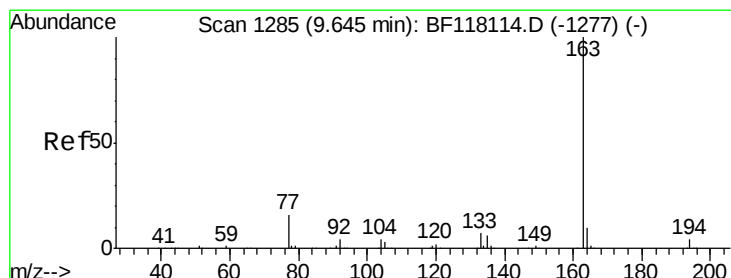
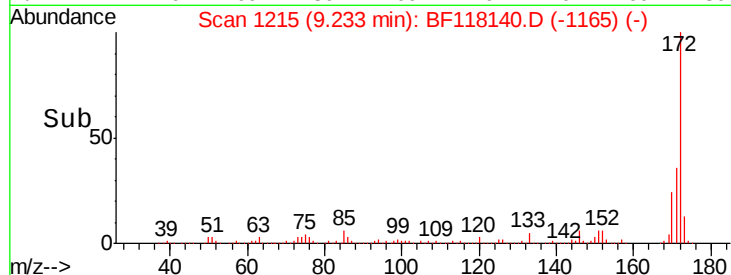
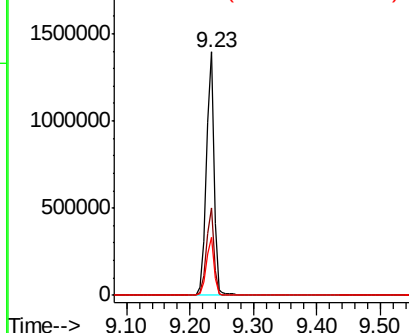


Abundance

Ion 172.00 (171.70 to 172.70): E

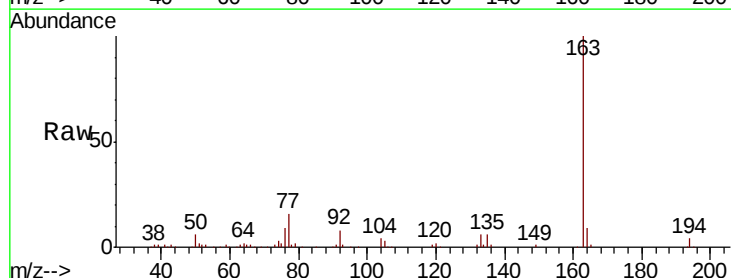
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#50  
Dimethylphthalate  
Concen: 7.485 ng  
RT: 9.63 min Scan# 1282  
Delta R.T. -0.02 min  
Lab File: BF118140.D  
Acq: 7 Dec 2019 20:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.9   | 3.1   | 4.7   |
| 164     | 9.1   | 7.7   | 11.5  |

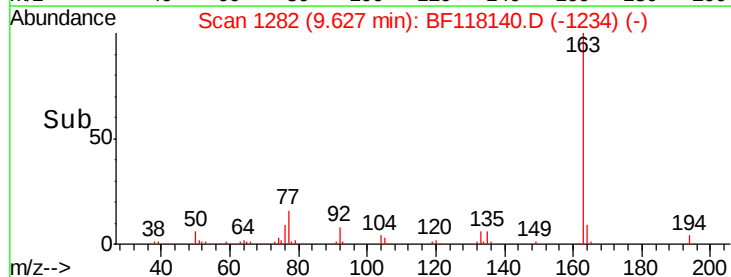
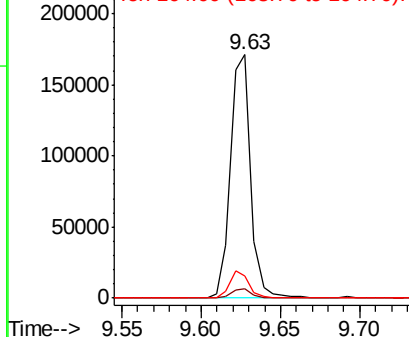


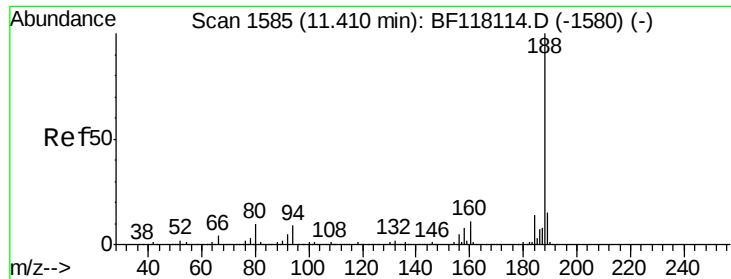
Abundance

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





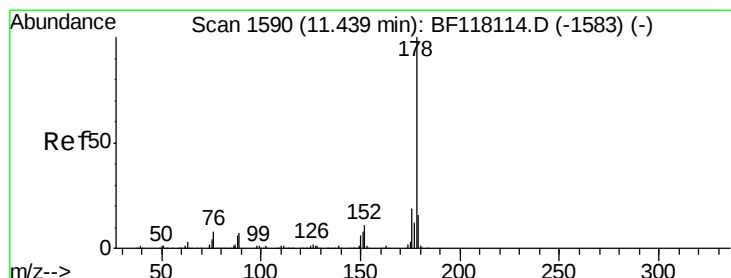
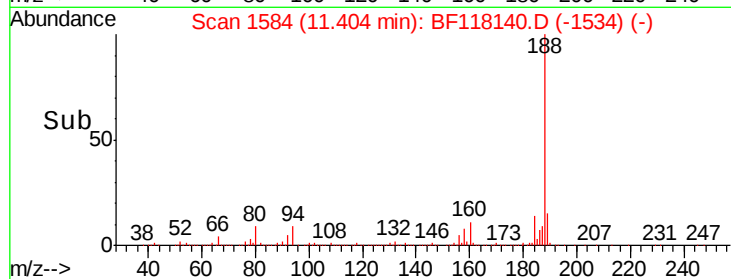
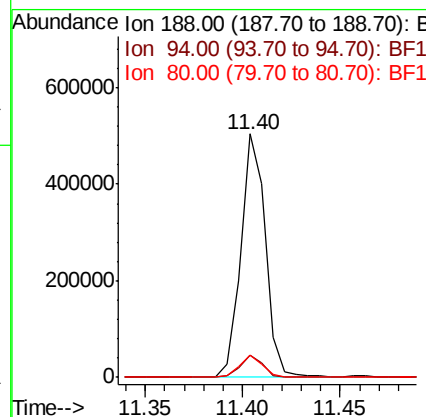
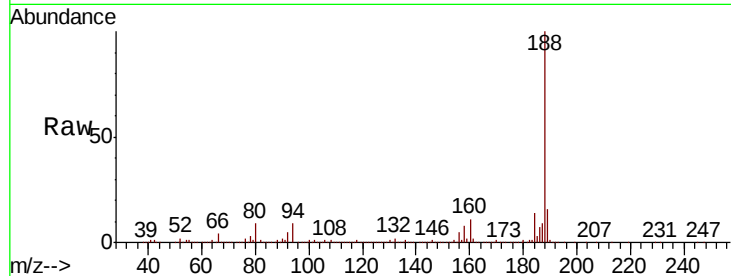
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.40 min Scan# 1584  
Delta R.T. -0.01 min  
Lab File: BF118140.D  
Acq: 7 Dec 2019 20:21

Instrument :  
BNA\_F  
ClientSampleId :  
P001-WC010

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 438895 |       |       |
| 94      | 9.1   |        | 7.1   | 10.7  |
| 80      | 9.0   |        | 7.9   | 11.9  |

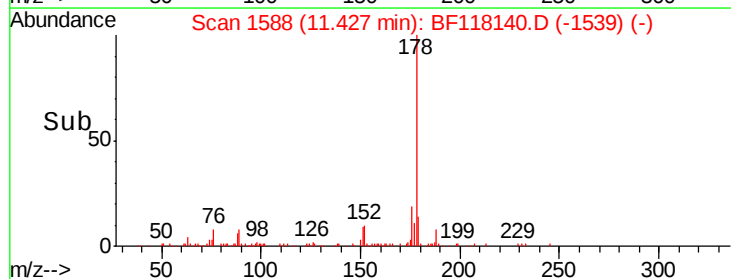
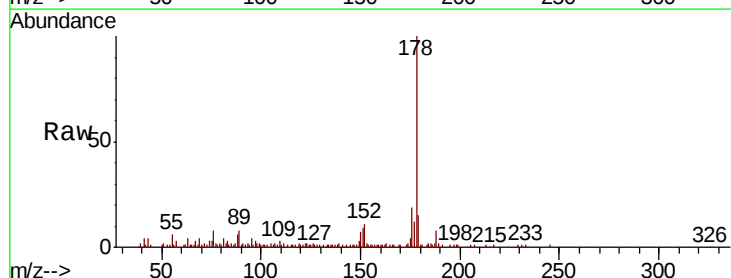
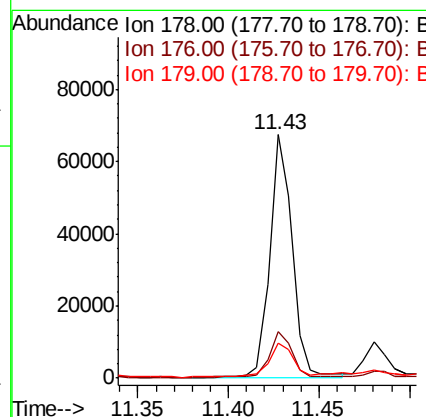
Manual Integrations  
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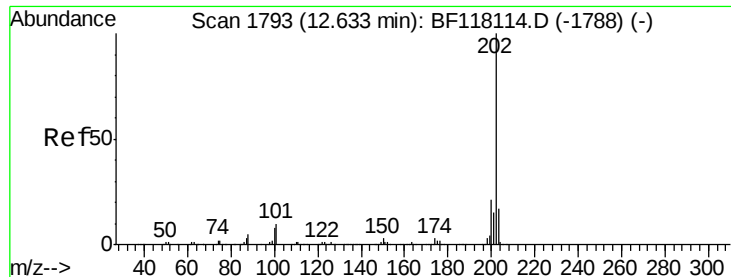
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#71  
Phenanthrene  
Concen: 2.510 ng  
RT: 11.43 min Scan# 1588  
Delta R.T. -0.01 min  
Lab File: BF118140.D  
Acq: 7 Dec 2019 20:21

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 178     | 100   | 58566 |       |       |
| 176     | 19.3  |       | 15.5  | 23.3  |
| 179     | 14.5  |       | 12.6  | 18.8  |





#75

Fluoranthene

Concen: 2.089 ng

RT: 12.62 min Scan# 1791

Delta R.T. -0.01 min

Lab File: BF118140.D

Acq: 7 Dec 2019 20:21

Instrument :

BNA\_F

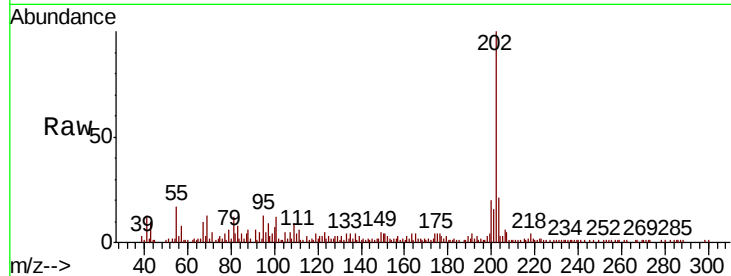
ClientSampleId :

P001-WC010

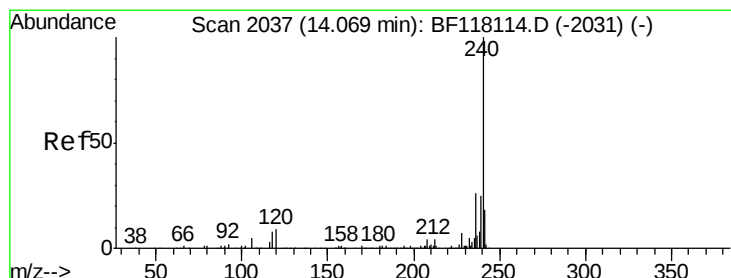
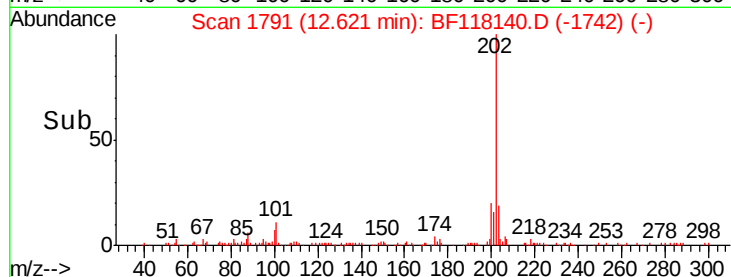
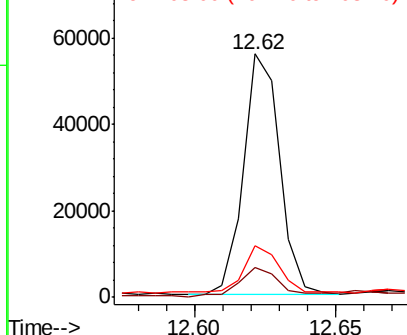
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 49842 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 12.1  | 0.0   | 30.4  |
| 203       | 21.0  | 0.0   | 37.2  |

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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: 14.06 min Scan# 2035

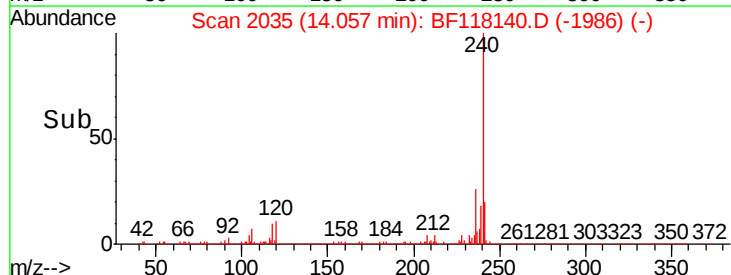
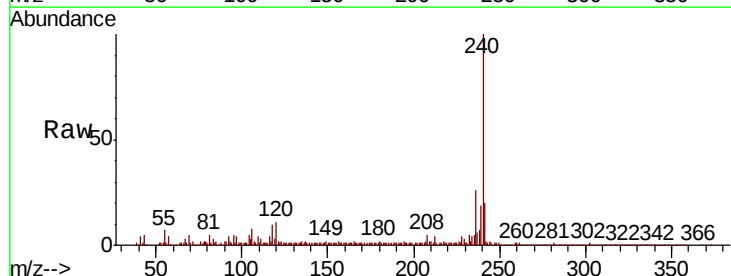
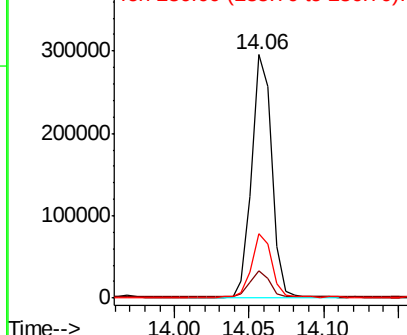
Delta R.T. -0.01 min

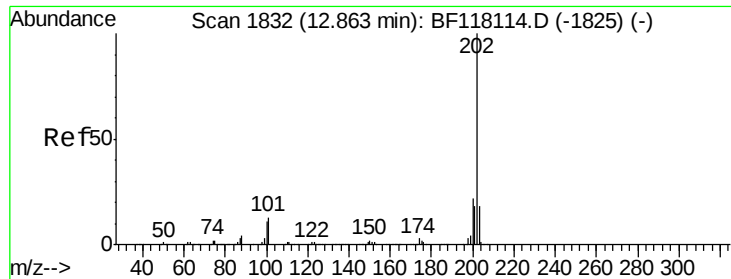
Lab File: BF118140.D

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|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 271943 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 11.1  | 7.1   | 10.7#  |
| 236       | 26.3  | 21.0  | 31.6   |

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





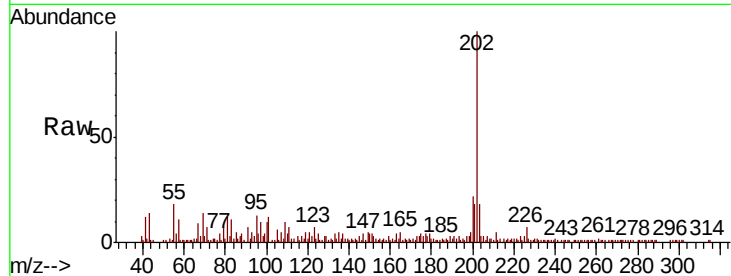
#78  
Pvrene  
Concen: 2.804 ng  
RT: 12.86 min Scan# 1831  
Delta R.T. -0.01 min  
Lab File: BF118140.D  
Acq: 7 Dec 2019 20:21

Instrument :  
BNA\_F  
ClientSampleId :  
P001-WC010

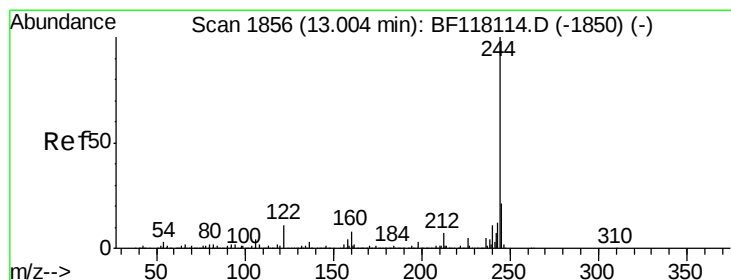
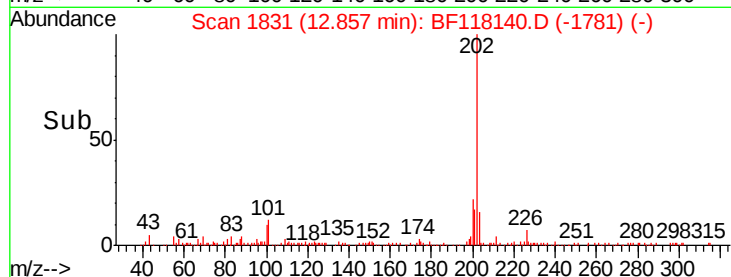
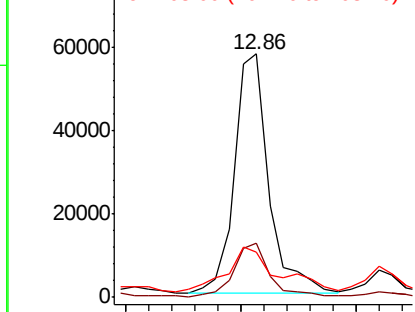
| Tot Ion | Ion  | Ratio | Resp  | Lower | Upper |
|---------|------|-------|-------|-------|-------|
| 202     | 100  |       | 60092 |       |       |
| 200     | 22.2 | 17.5  | 26.3  |       |       |
| 203     | 18.4 | 14.6  | 21.8  |       |       |

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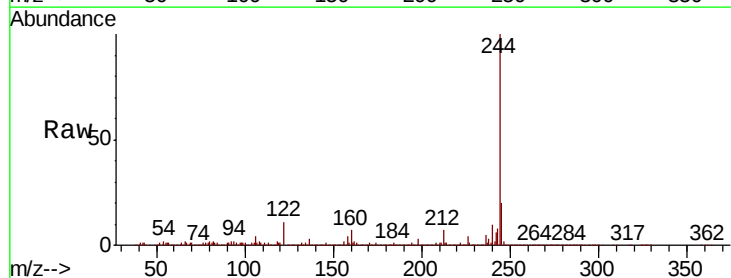


Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E

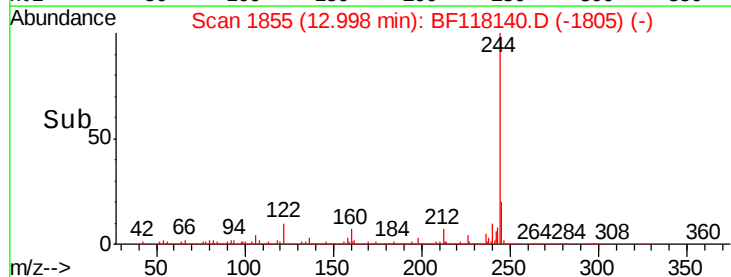
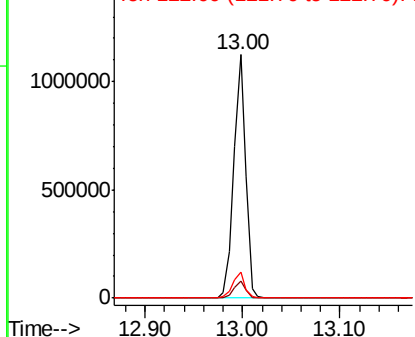


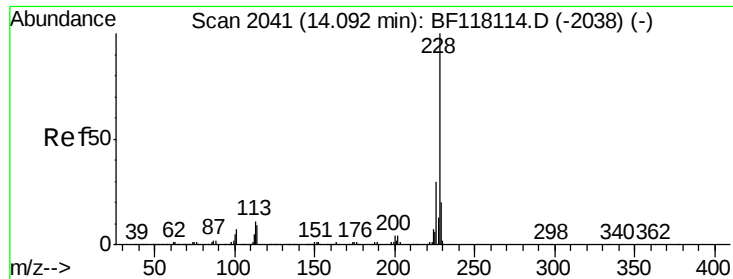
#79  
Terphenyl-d14  
Concen: 60.162 ng  
RT: 13.00 min Scan# 1855  
Delta R.T. -0.01 min  
Lab File: BF118140.D  
Acq: 7 Dec 2019 20:21

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 244     | 100  |       | 951403 |       |       |
| 212     | 7.1  | 5.9   | 8.9    |       |       |
| 122     | 10.6 | 9.0   | 13.6   |       |       |



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





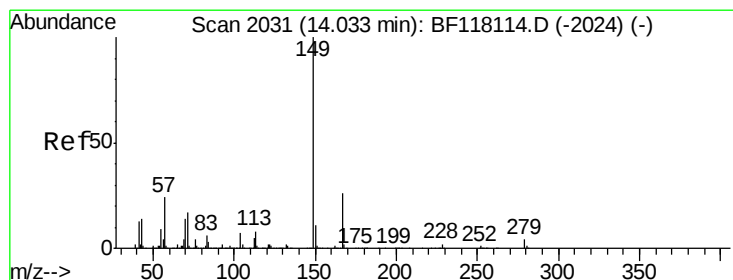
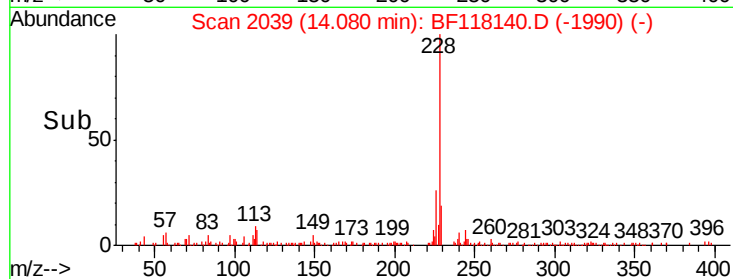
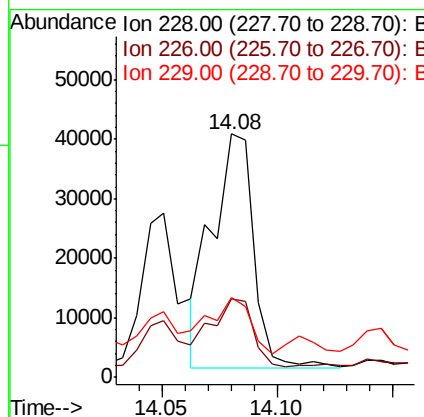
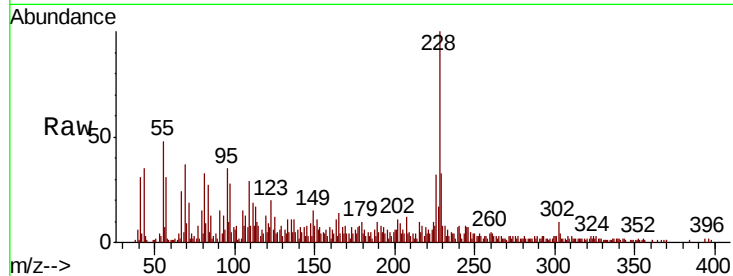
#83  
 Chrvsene  
 Concen: 2.737 ng  
 RT: 14.08 min Scan# 2039  
 Delta R.T. -0.01 min  
 Lab File: BF118140.D  
 Acq: 7 Dec 2019 20:21

Instrument :  
 BNA\_F  
 ClientSampleId :  
 P001-WC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.3  | 23.8  | 35.8  |
| 229     | 33.0  | 15.7  | 23.5  |

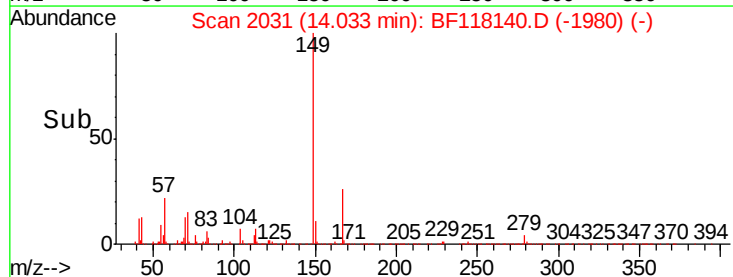
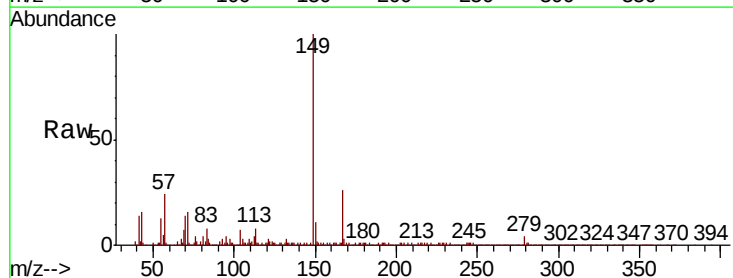
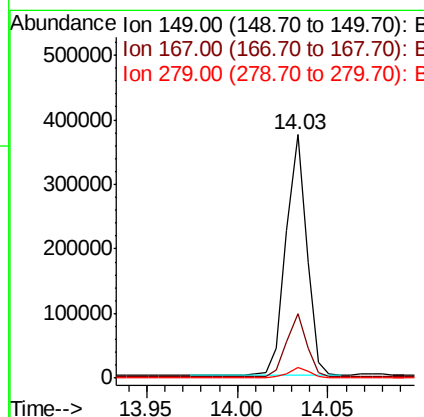
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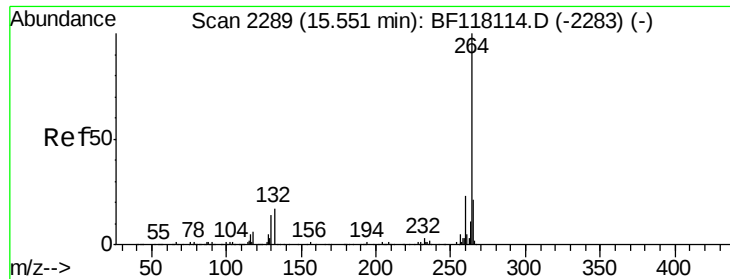
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#84  
 Bis(2-ethylhexyl)phthalate  
 Concen: 23.380 ng  
 RT: 14.03 min Scan# 2031  
 Delta R.T. -0.00 min  
 Lab File: BF118140.D  
 Acq: 7 Dec 2019 20:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 26.3  | 20.8  | 31.2  |
| 279     | 4.5   | 2.9   | 4.3   |





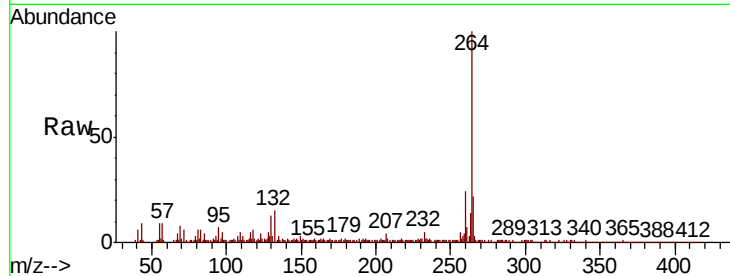
#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.56 min Scan# 2290  
Delta R.T. 0.01 min  
Lab File: BF118140.D  
Acq: 7 Dec 2019 20:21

Instrument :  
BNA\_F  
ClientSampleId :  
P001-WC010

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.1  | 18.6  | 28.0  |
| 265     | 22.0  | 16.8  | 25.2  |

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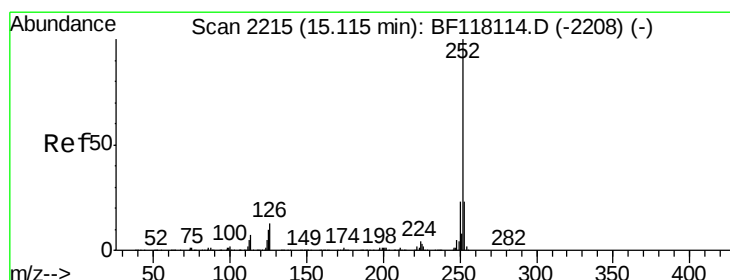
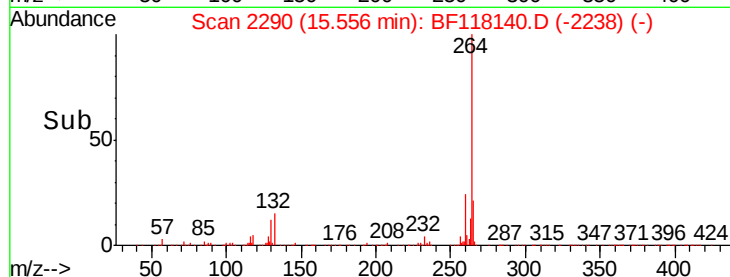
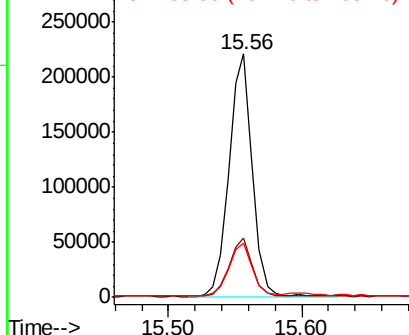


Abundance

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



#88  
Benzo(b)fluoranthene  
Concen: 2.475 ng m  
RT: 15.12 min Scan# 2215  
Delta R.T. -0.00 min  
Lab File: BF118140.D  
Acq: 7 Dec 2019 20:21

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 27.1  | 18.2  | 27.4  |
| 125     | 24.3  | 8.3   | 12.5# |

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

