

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091919\  
 Data File : BF117181.D  
 Acq On : 19 Sep 2019 18:16  
 Operator : HP/JU  
 Sample : K4957-12  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-26-COMP

Manual Integrations  
 APPROVED

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 9/20/2019 1:06:52 PM

Quant Time: Sep 20 02:29:06 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Sep 13 16:23:17 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.82  | 152  | 28249    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.10  | 136  | 114934   | 20.00  | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.85  | 164  | 60817    | 20.00  | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.33 | 188  | 92747    | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12            | 13.96 | 240  | 55059    | 20.00  | ng    | -0.01    |
| 87) Perylene-d12            | 15.42 | 264  | 51294    | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.45  | 112  | 148784   | 82.23  | ng    | 0.00     |
| 7) Phenol-d6                | 6.46  | 99   | 207975   | 88.94  | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.38  | 82   | 131715   | 60.21  | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.64 | 330  | 44783    | 88.11  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.17  | 172  | 217901   | 56.02  | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.91 | 244  | 170195   | 57.78  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 10) Phenol                  | 6.47  | 94   | 8375     | 3.249  | ng    | 86       |
| 50) Dimethylphthalate       | 9.56  | 163  | 33033    | 7.671  | ng    | # 96     |
| 71) Phenanthrene            | 11.36 | 178  | 39482    | 7.495  | ng    | 99       |
| 72) Anthracene              | 11.41 | 178  | 12297m   | 2.286  | ng    |          |
| 75) Fluoranthene            | 12.54 | 202  | 72805    | 13.450 | ng    | 95       |
| 78) Pyrene                  | 12.77 | 202  | 67672    | 14.648 | ng    | 97       |
| 81) Benzo(a)anthracene      | 13.96 | 228  | 29517    | 8.024  | ng    | 96       |
| 83) Chrysene                | 13.99 | 228  | 27869    | 7.768  | ng    | 96       |
| 86) Indeno(1,2,3-cd)pyrene  | 16.86 | 276  | 11503    | 4.395  | ng    | 98       |
| 88) Benzo(b)fluoranthene    | 15.00 | 252  | 34012m   | 10.947 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.03 | 252  | 10318m   | 3.506  | ng    |          |
| 90) Benzo(a)pyrene          | 15.36 | 252  | 22966    | 8.423  | ng    | # 92     |
| 92) Benzo(a,h,i)perylene    | 17.30 | 276  | 10281    | 4.750  | ng    | # 92     |

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

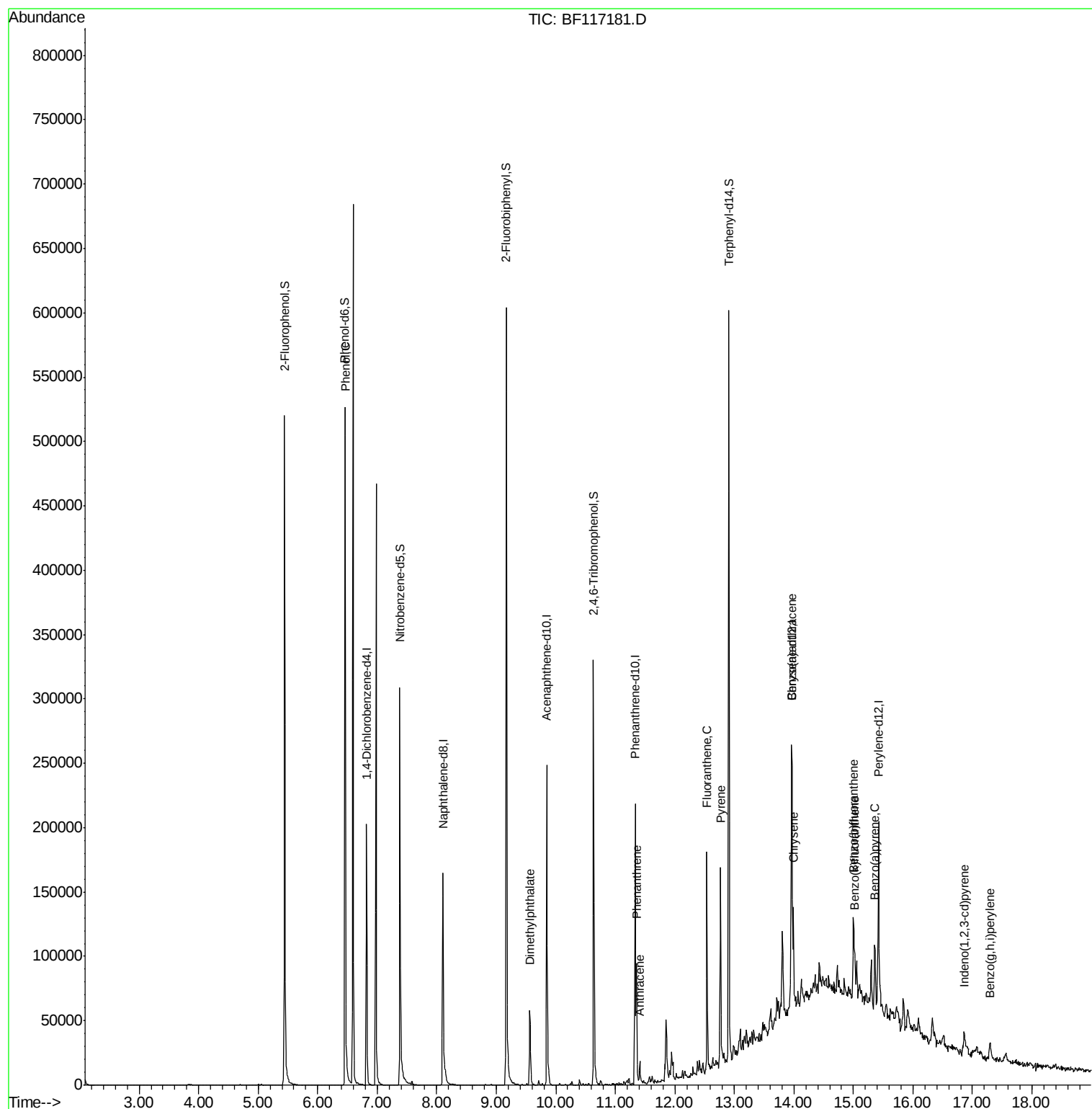
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF091919\  
Data File : BF117181.D  
Acq On : 19 Sep 2019 18:16  
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Sample : K4957-12  
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Quant Time: Sep 20 02:29:06 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Sep 13 16:23:17 2019  
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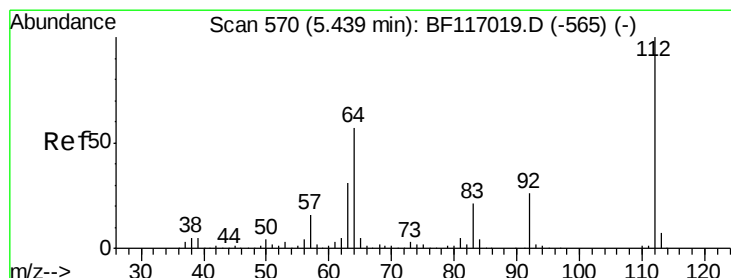
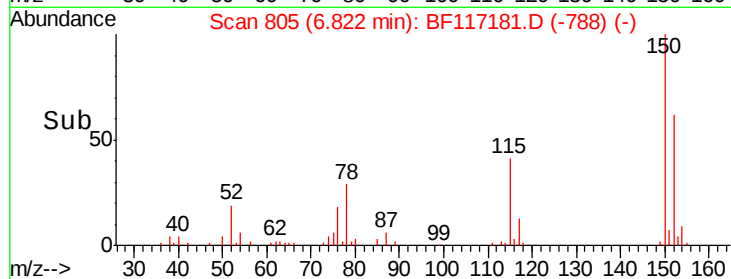
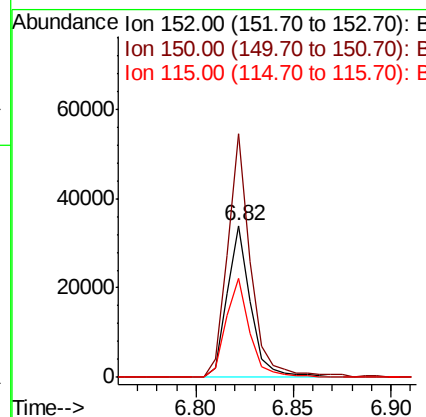
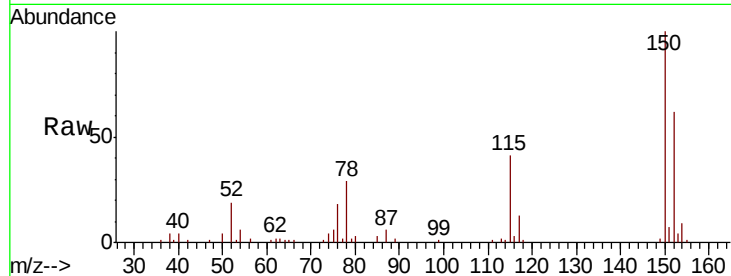
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.82 min Scan# 805  
 Delta R.T. 0.00 min  
 Lab File: BF117181.D  
 Acq: 19 Sep 2019 18:16

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-26-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 160.6 | 127.5 | 191.3 |
| 115     | 65.5  | 55.0  | 82.4  |

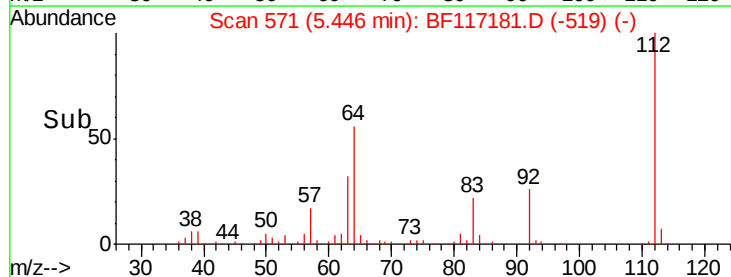
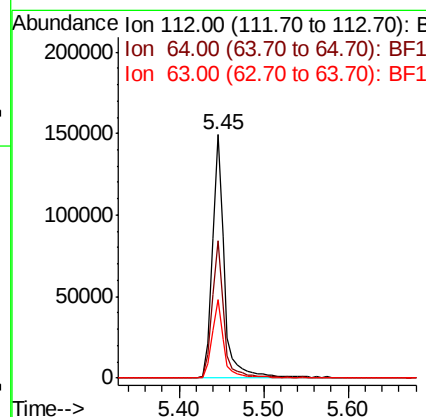
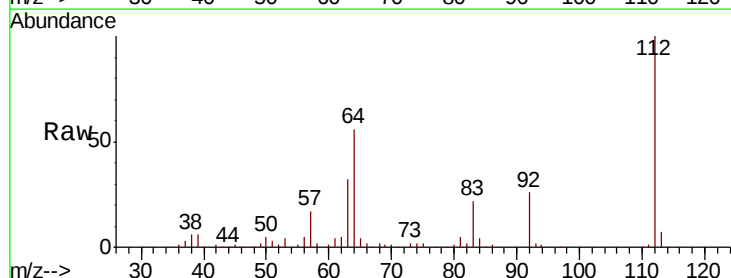
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#5  
 2-Fluorophenol  
 Concen: 82.229 ng  
 RT: 5.45 min Scan# 571  
 Delta R.T. 0.01 min  
 Lab File: BF117181.D  
 Acq: 19 Sep 2019 18:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 56.4  | 45.7  | 68.5  |
| 63      | 32.4  | 24.9  | 37.3  |





#7

Phenol-d6

Concen: 88.940 ng

RT: 6.46 min Scan# 743

Delta R.T. 0.00 min

Lab File: BF117181.D

Acq: 19 Sep 2019 18:16

Instrument :

BNA\_F

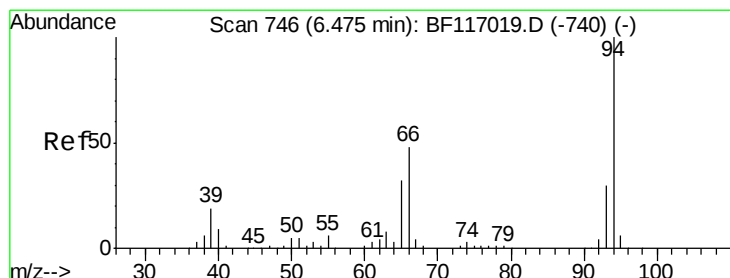
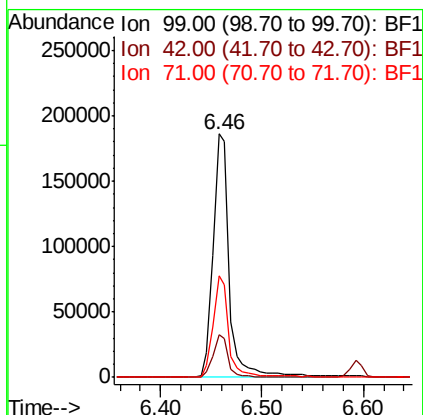
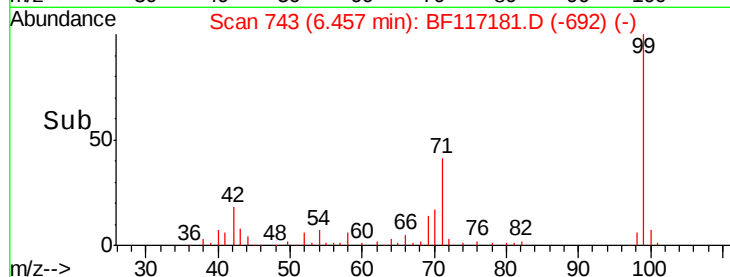
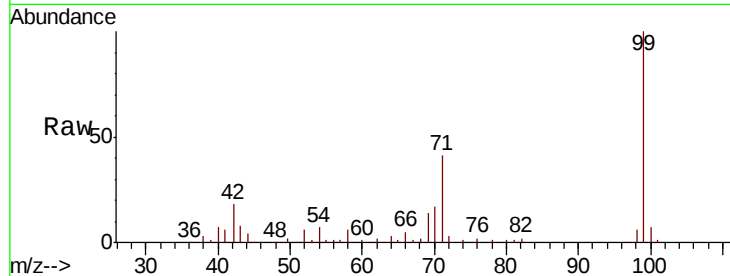
ClientSampleId :

SB-26-COMP

|          |       |       |        |
|----------|-------|-------|--------|
| Tot Ion: | 99    | Resp: | 207975 |
| Ion      | Ratio | Lower | Upper  |
| 99       | 100   |       |        |
| 42       | 17.7  | 12.2  | 18.2   |
| 71       | 41.5  | 29.8  | 44.8   |

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#10

Phenol

Concen: 3.249 ng

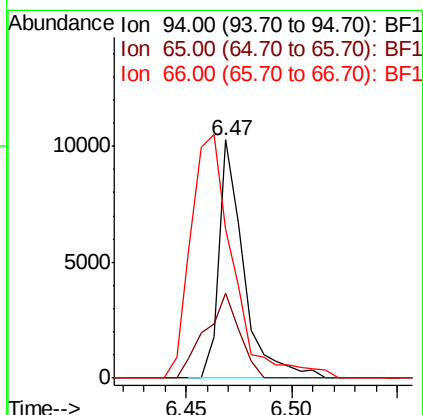
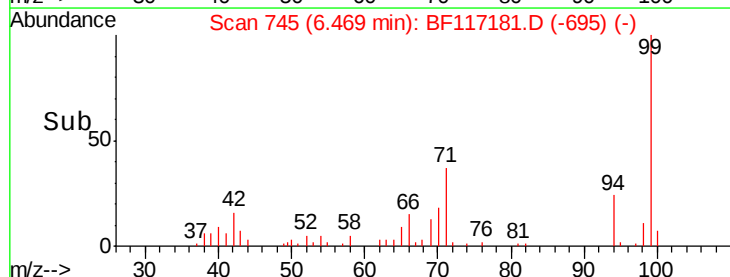
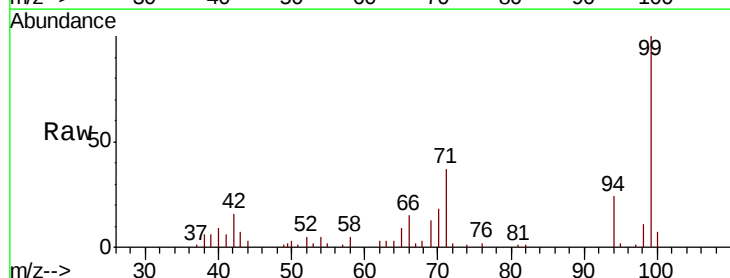
RT: 6.47 min Scan# 745

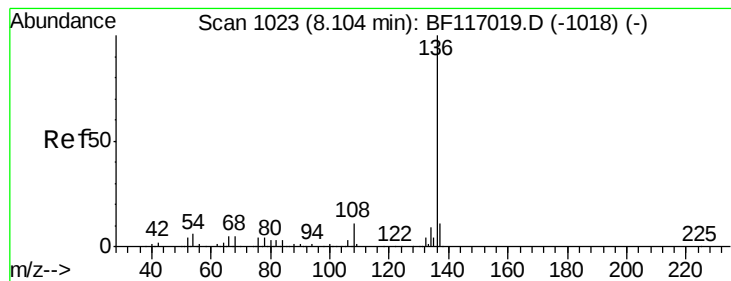
Delta R.T. -0.01 min

Lab File: BF117181.D

Acq: 19 Sep 2019 18:16

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 94    | Resp: | 8375  |
| Ion      | Ratio | Lower | Upper |
| 94       | 100   |       |       |
| 65       | 35.7  | 12.5  | 52.5  |
| 66       | 62.4  | 28.9  | 68.9  |





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.10 min Scan# 1023

Delta R.T. 0.00 min

Lab File: BF117181.D

Acq: 19 Sep 2019 18:16

Instrument :

BNA\_F

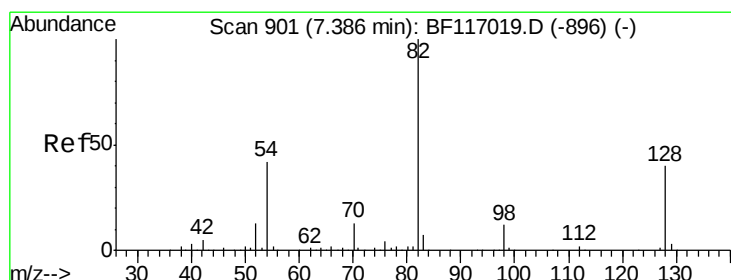
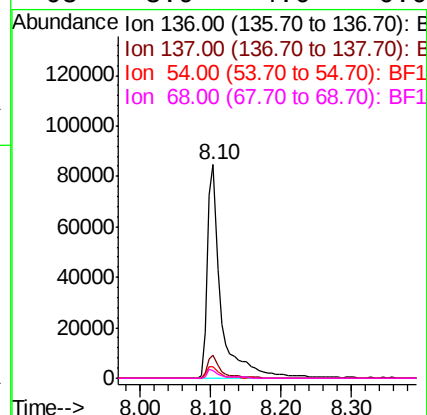
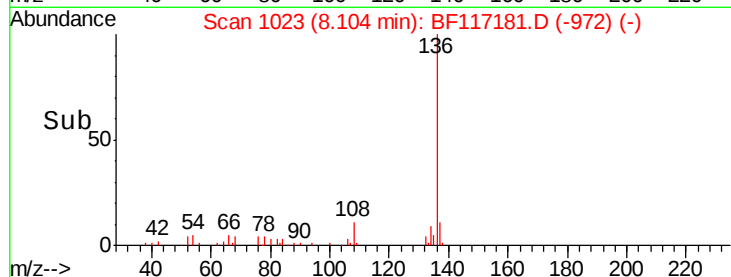
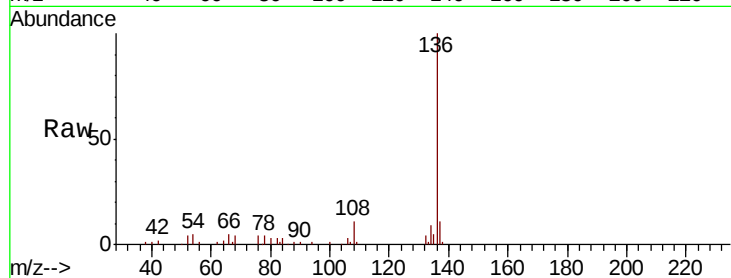
ClientSampleId :

SB-26-COMP

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 136     | 100   | 114934 |       |       |
| 137     | 10.9  |        | 9.0   | 13.4  |
| 54      | 5.2   |        | 4.5   | 6.7   |
| 68      | 3.9   |        | 4.0   | 6.0#  |

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#23

Nitrobenzene-d5

Concen: 60.214 ng

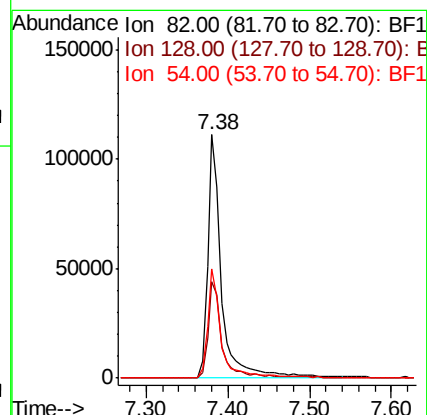
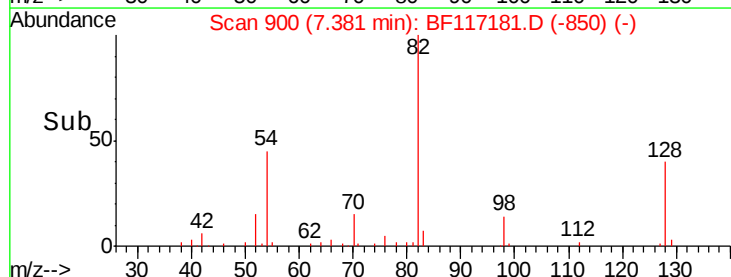
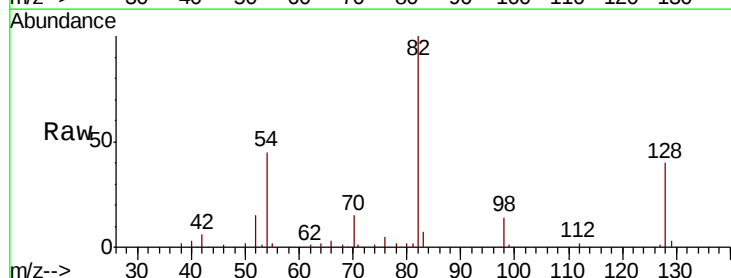
RT: 7.38 min Scan# 900

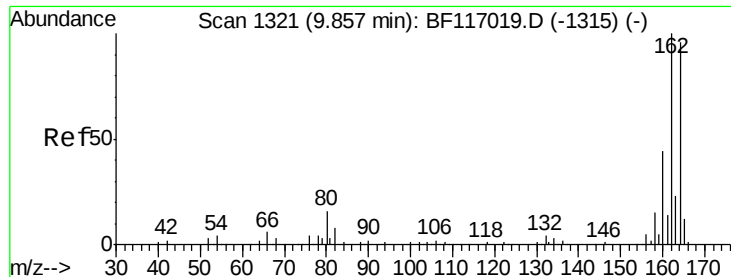
Delta R.T. -0.01 min

Lab File: BF117181.D

Acq: 19 Sep 2019 18:16

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 82      | 100   | 131715 |       |       |
| 128     | 39.6  |        | 32.3  | 48.5  |
| 54      | 45.0  |        | 33.3  | 49.9  |





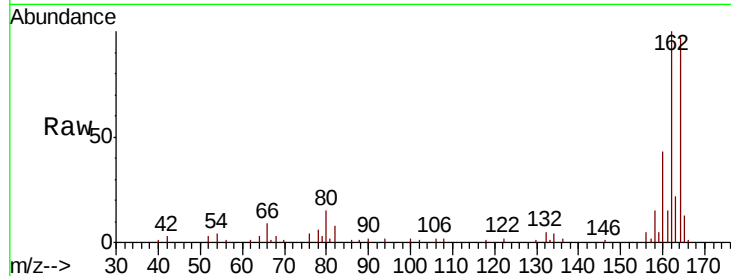
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.85 min Scan# 1320  
Delta R.T. -0.01 min  
Lab File: BF117181.D  
Acq: 19 Sep 2019 18:16

Instrument :  
BNA\_F  
ClientSampleId :  
SB-26-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 102.8 | 83.4  | 125.2 |
| 160     | 44.4  | 36.4  | 54.6  |

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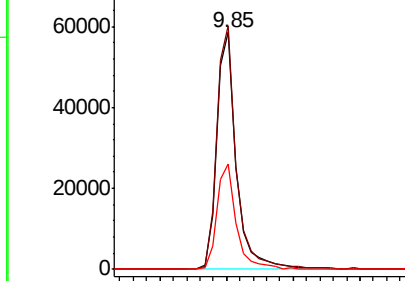


Abundance

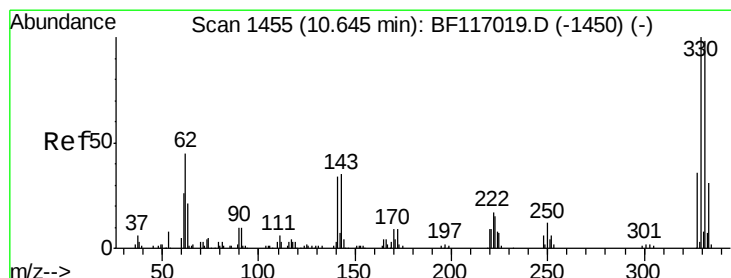
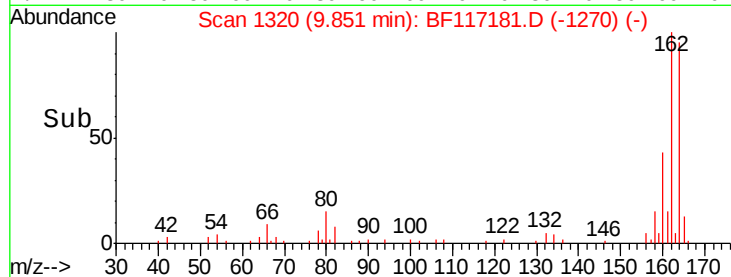
Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

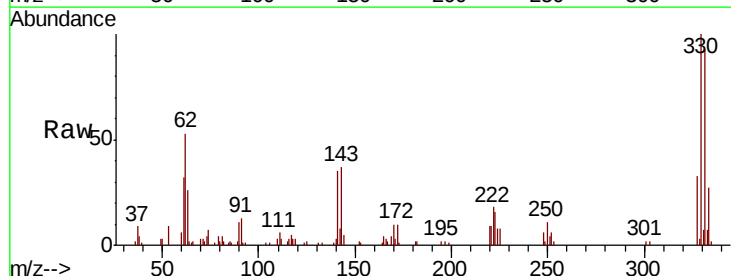


Time-->



#42  
2,4,6-Tribromophenol  
Concen: 88.105 ng  
RT: 10.64 min Scan# 1454  
Delta R.T. -0.01 min  
Lab File: BF117181.D  
Acq: 19 Sep 2019 18:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 93.3  | 78.0  | 117.0 |
| 141     | 44.6  | 35.8  | 53.6  |

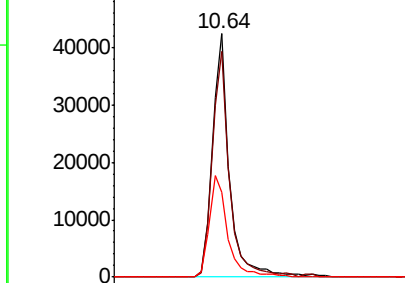


Abundance

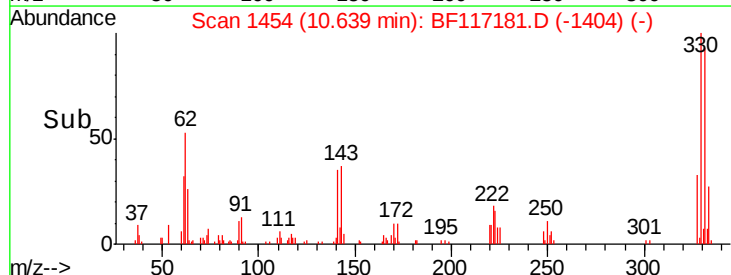
Ion 329.80 (329.50 to 330.50): E

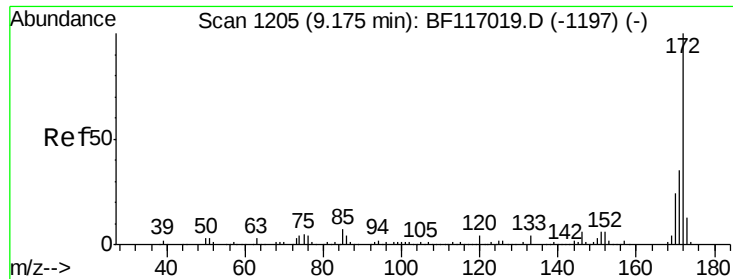
Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



Time-->





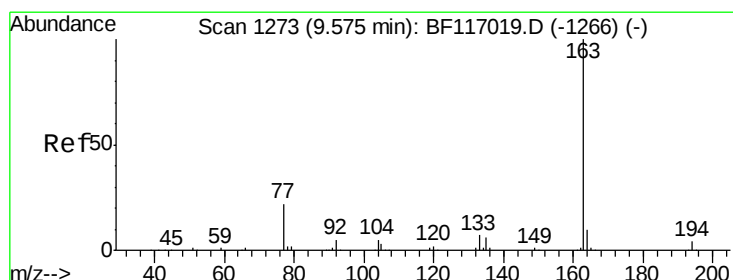
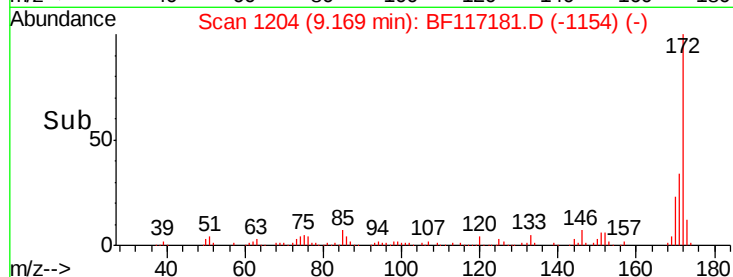
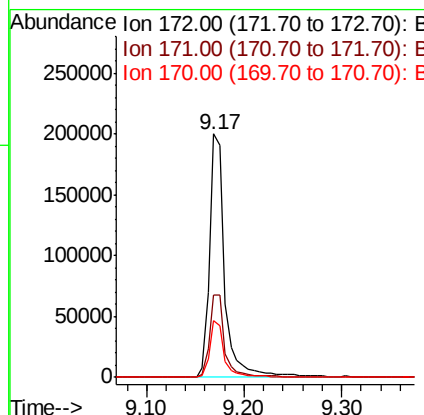
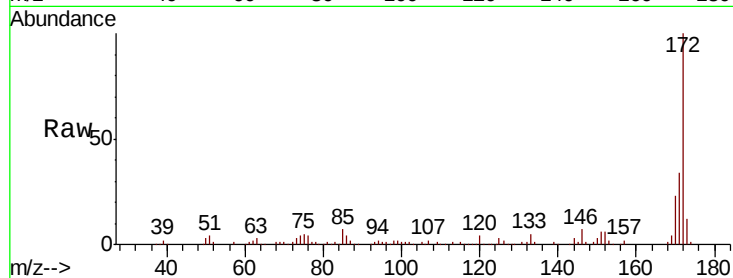
#45  
2-Fluorobiphenyl  
Concen: 56.021 ng  
RT: 9.17 min Scan# 1204  
Delta R.T. -0.01 min  
Lab File: BF117181.D  
Acq: 19 Sep 2019 18:16

Instrument :  
BNA\_F  
ClientSampleId :  
SB-26-COMP

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 217901 |       |       |
| 171     | 34.1  |        | 28.2  | 42.2  |
| 170     | 23.2  |        | 18.9  | 28.3  |

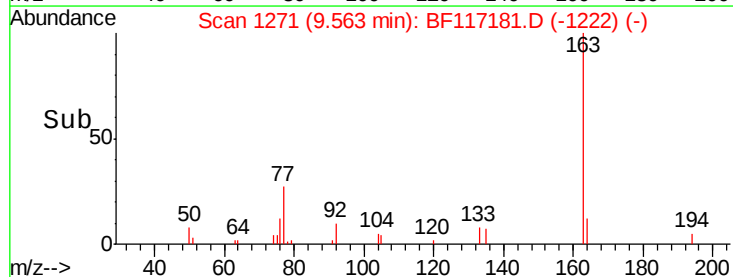
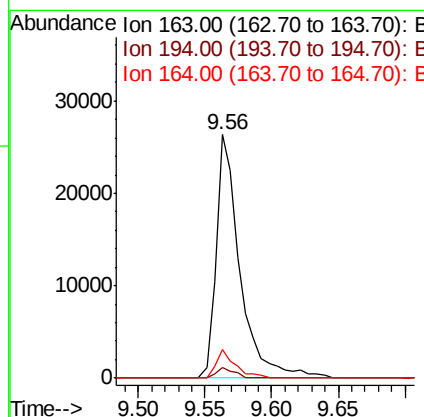
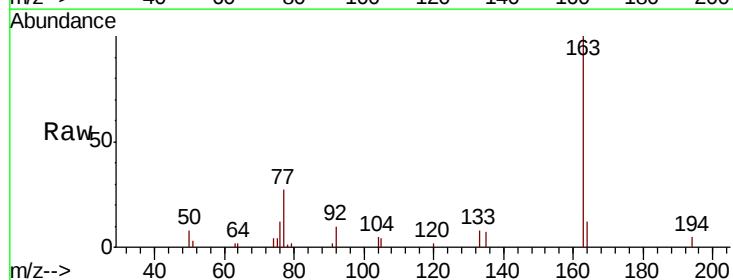
Manual Integrations  
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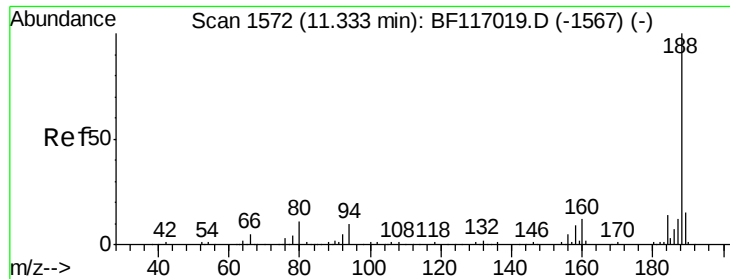
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#50  
Dimethylphthalate  
Concen: 7.671 ng  
RT: 9.56 min Scan# 1271  
Delta R.T. -0.01 min  
Lab File: BF117181.D  
Acq: 19 Sep 2019 18:16

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 163     | 100   | 33033 |       |       |
| 194     | 4.5   |       | 2.9   | 4.3#  |
| 164     | 11.9  |       | 8.2   | 12.4  |





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.33 min Scan# 1572

Delta R.T. 0.00 min

Lab File: BF117181.D

Acq: 19 Sep 2019 18:16

Instrument :

BNA\_F

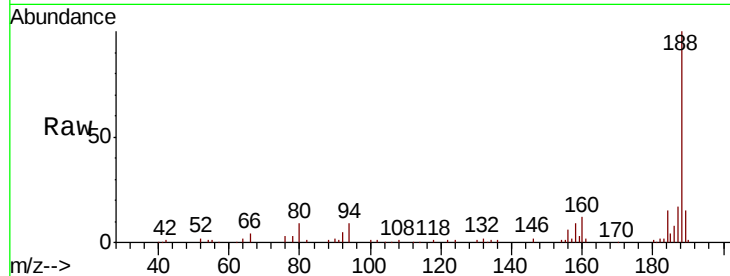
ClientSampleId :

SB-26-COMP

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 188   | Resp: | 92747 |
| Ion Ratio | Lower | Upper |       |
| 188       | 100   |       |       |
| 94        | 8.7   | 8.2   | 12.2  |
| 80        | 8.8   | 9.0   | 13.6  |

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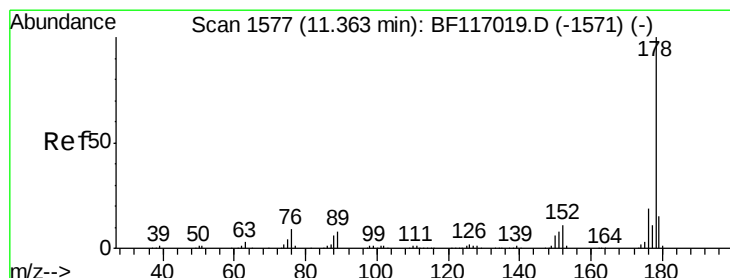
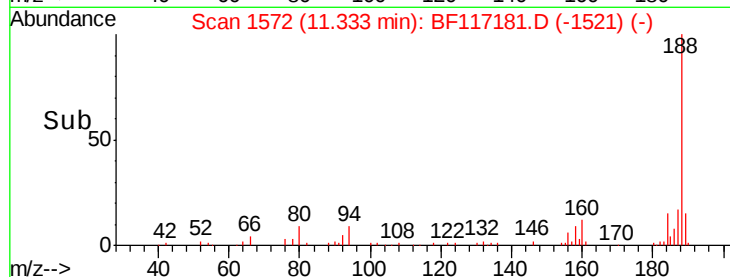
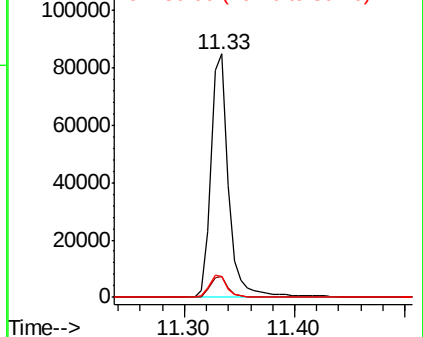
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Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#71

Phenanthrene

Concen: 7.495 ng

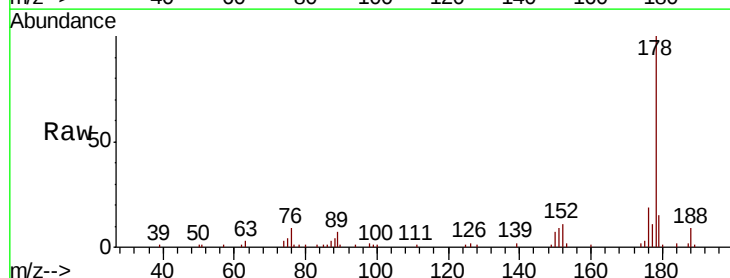
RT: 11.36 min Scan# 1576

Delta R.T. -0.01 min

Lab File: BF117181.D

Acq: 19 Sep 2019 18:16

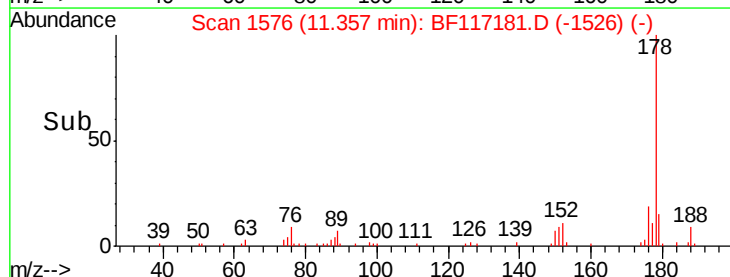
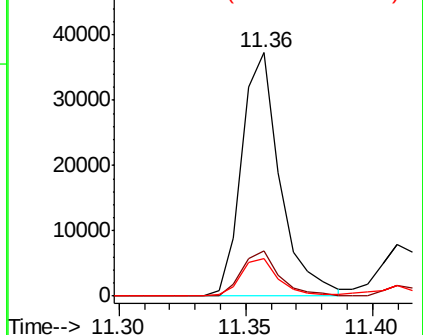
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 39482 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 18.6  | 15.4  | 23.2  |
| 179       | 15.3  | 12.4  | 18.6  |

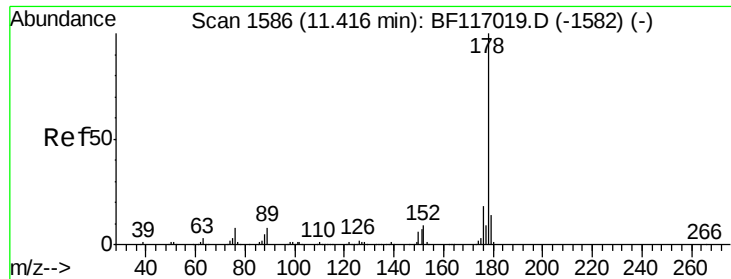


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 2.286 ng/mL

RT: 11.41 min Scan# 1585

Delta R.T. -0.01 min

Lab File: BF117181.D

Acq: 19 Sep 2019 18:16

Instrument :

BNA\_F

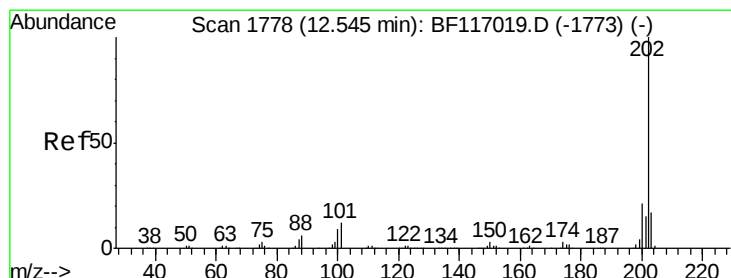
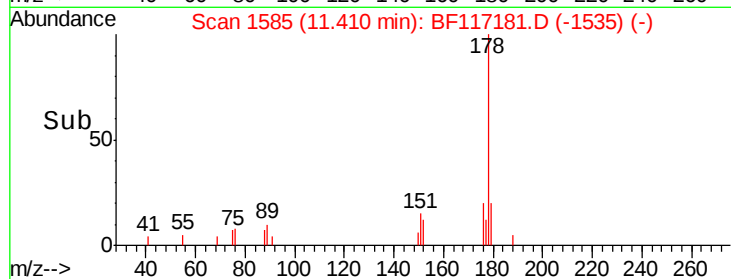
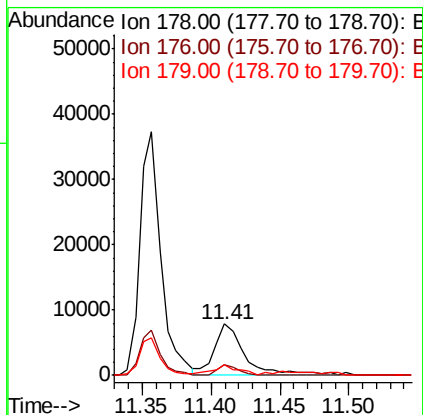
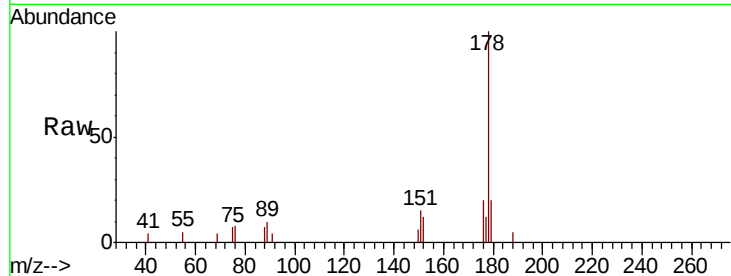
ClientSampleId :

SB-26-COMP

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 178   | Resp: | 12297 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 176       | 20.4  | 14.6  | 21.8  |
| 179       | 20.0  | 11.6  | 17.4  |

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#75

Fluoranthene

Concen: 13.450 ng/mL

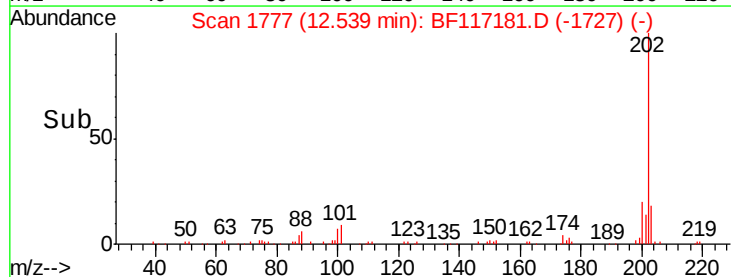
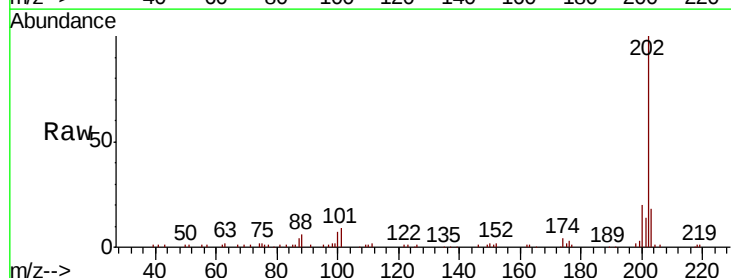
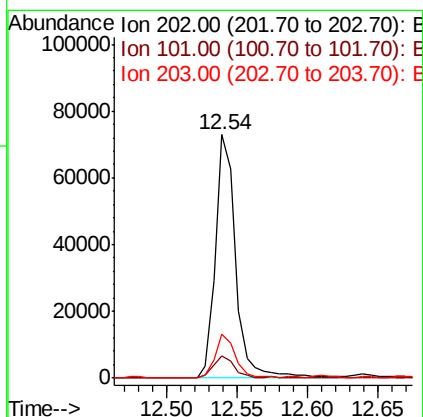
RT: 12.54 min Scan# 1777

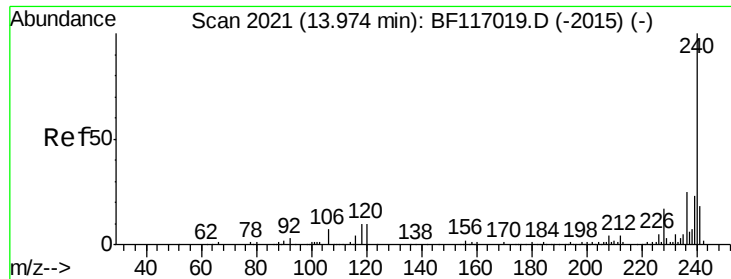
Delta R.T. -0.01 min

Lab File: BF117181.D

Acq: 19 Sep 2019 18:16

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 72805 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 9.3   | 0.0   | 32.3  |
| 203       | 18.3  | 0.0   | 37.1  |





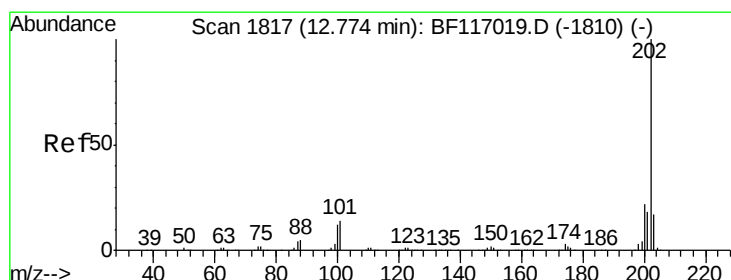
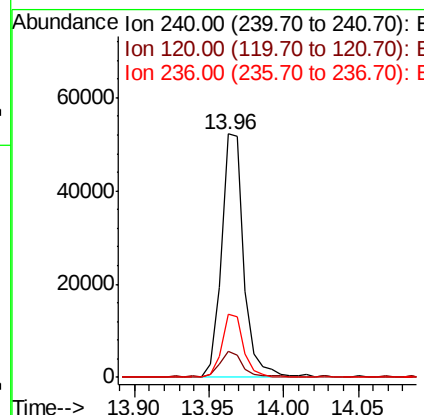
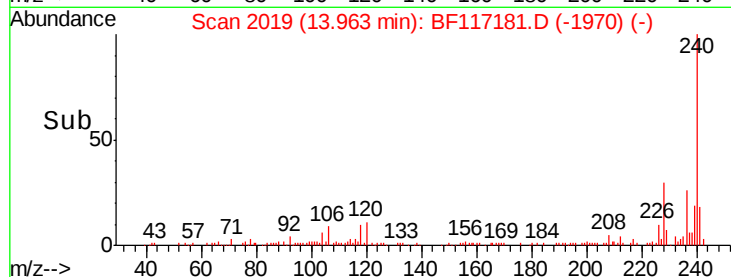
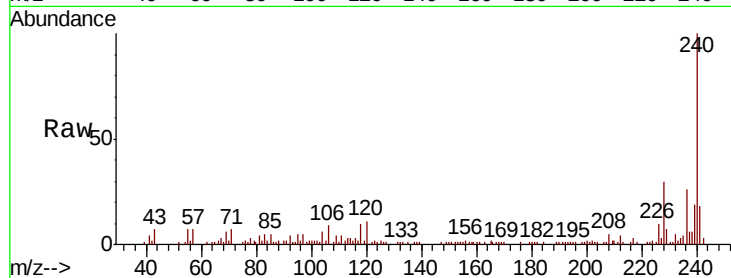
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.96 min Scan# 2019  
Delta R.T. -0.01 min  
Lab File: BF117181.D  
Acq: 19 Sep 2019 18:16

Instrument :  
BNA\_F  
ClientSampleId :  
SB-26-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 10.5  | 8.3   | 12.5  |
| 236     | 26.0  | 20.3  | 30.5  |

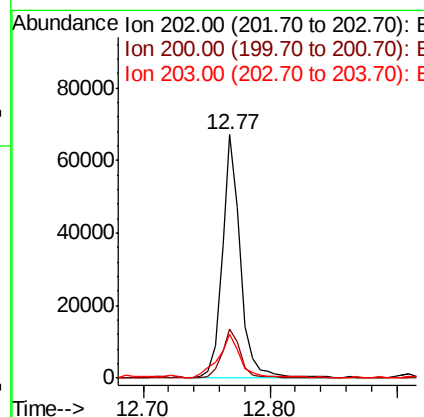
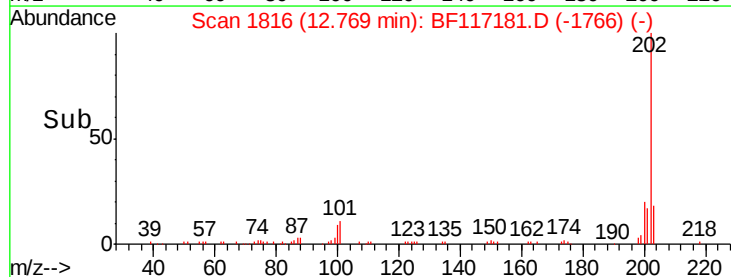
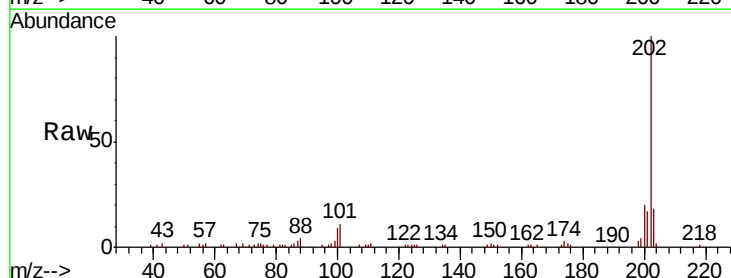
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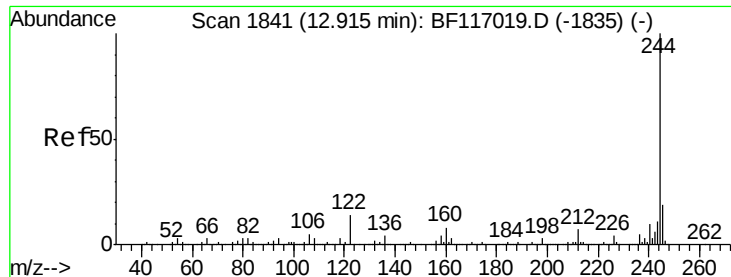
mohammad  
9/20/2019 1:06:52 PM



#78  
Pyrene  
Concen: 14.648 ng  
RT: 12.77 min Scan# 1816  
Delta R.T. -0.01 min  
Lab File: BF117181.D  
Acq: 19 Sep 2019 18:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 19.9  | 17.2  | 25.8  |
| 203     | 18.2  | 14.0  | 21.0  |





#79

Terphenyl-d14

Concen: 57.780 ng

RT: 12.91 min Scan# 1840

Delta R.T. -0.01 min

Lab File: BF117181.D

Acq: 19 Sep 2019 18:16

Instrument :

BNA\_F

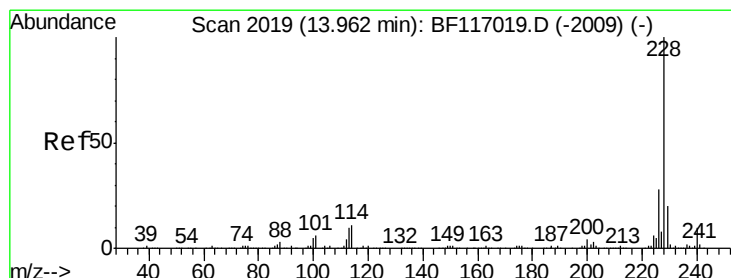
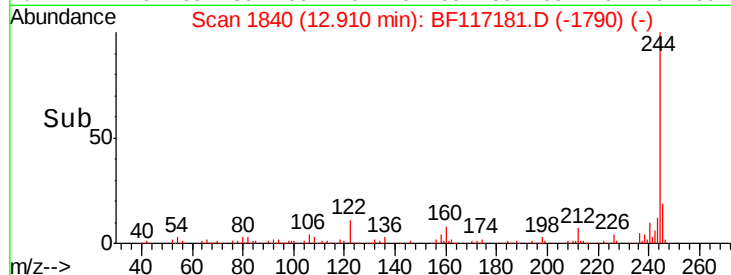
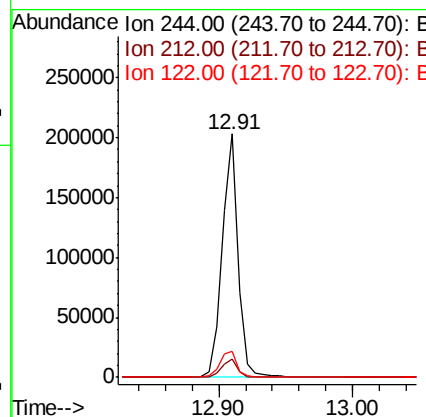
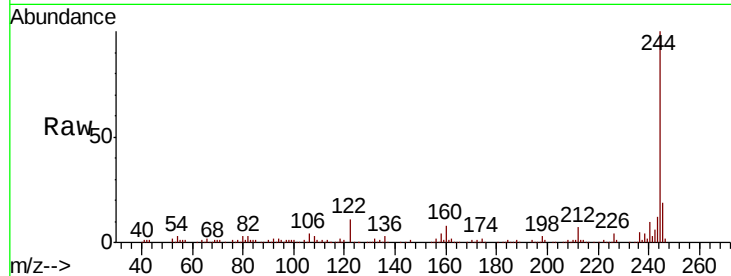
ClientSampled :

SB-26-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 7.5   | 5.8   | 8.8   |
| 122     | 10.7  | 11.3  | 16.9  |

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9/20/2019 1:06:52 PM



#81

Benzo(a)anthracene

Concen: 8.024 ng

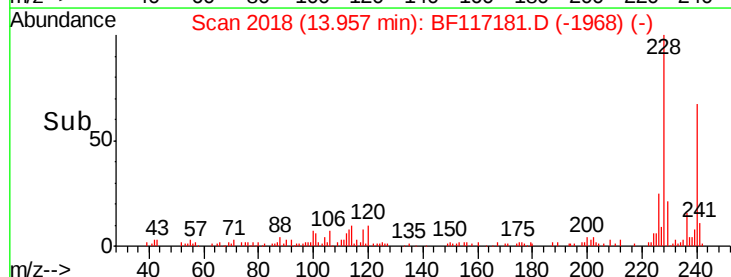
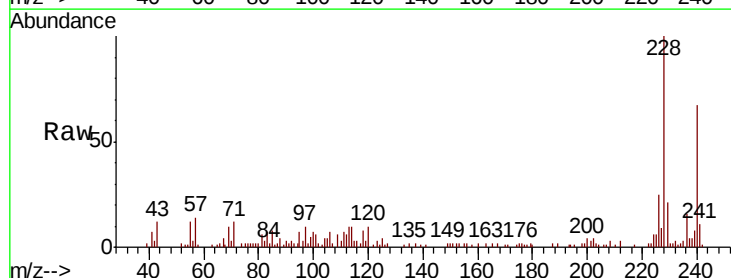
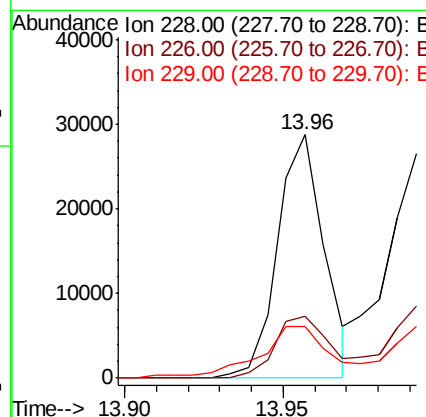
RT: 13.96 min Scan# 2018

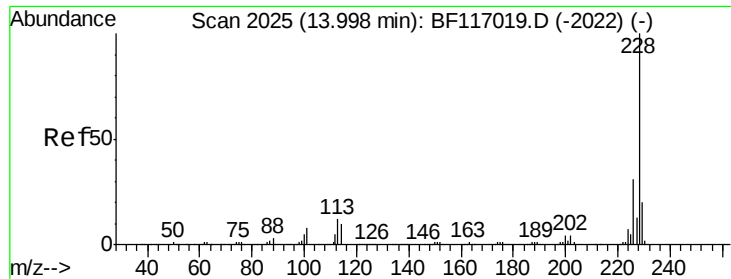
Delta R.T. -0.01 min

Lab File: BF117181.D

Acq: 19 Sep 2019 18:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 25.4  | 22.3  | 33.5  |
| 229     | 21.0  | 15.9  | 23.9  |





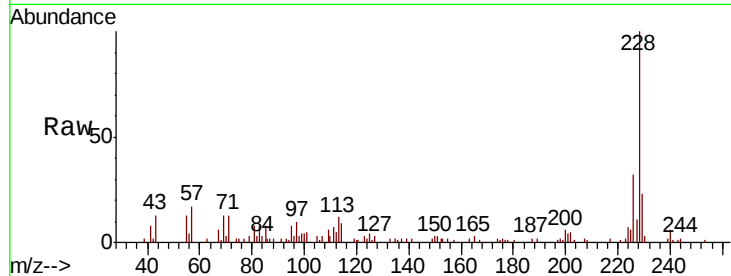
#83  
Chrysene  
Concen: 7.768 ng  
RT: 13.99 min Scan# 2024  
Delta R.T. -0.01 min  
Lab File: BF117181.D  
Acq: 19 Sep 2019 18:16

Instrument :  
BNA\_F  
ClientSampleId :  
SB-26-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.0  | 24.8  | 37.2  |
| 229     | 23.2  | 15.8  | 23.8  |

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9/20/2019 1:06:52 PM

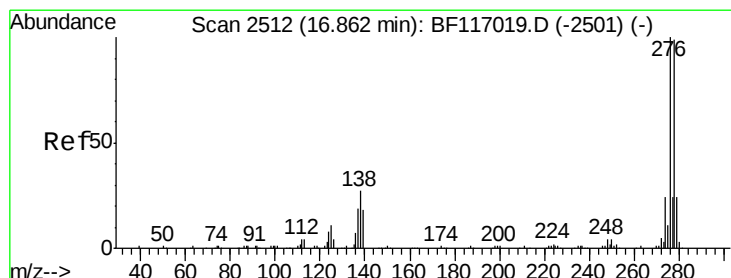
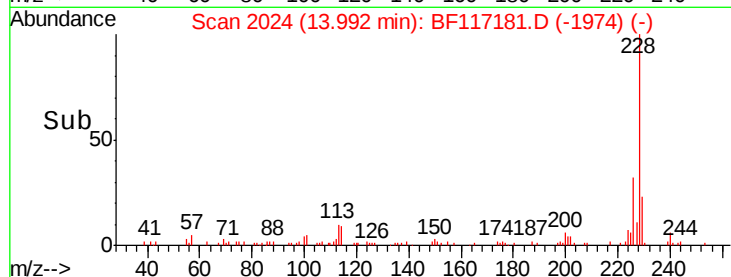
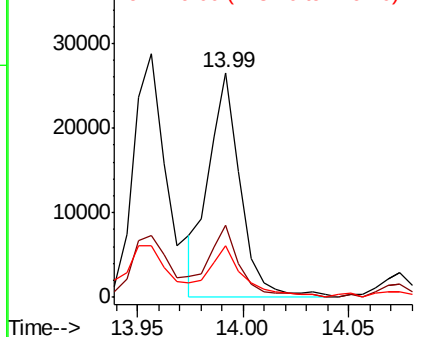


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#86  
Indeno(1,2,3-cd)pyrene  
Concen: 4.395 ng  
RT: 16.86 min Scan# 2512  
Delta R.T. 0.00 min  
Lab File: BF117181.D  
Acq: 19 Sep 2019 18:16

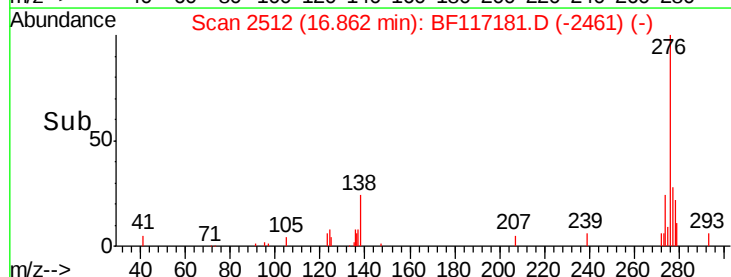
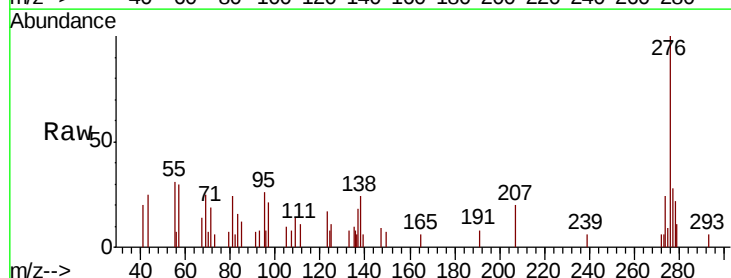
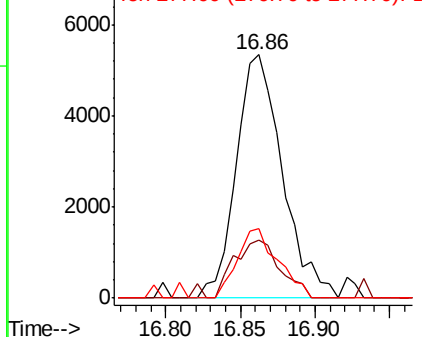
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 23.9  | 20.7  | 31.1  |
| 277     | 25.1  | 19.8  | 29.8  |

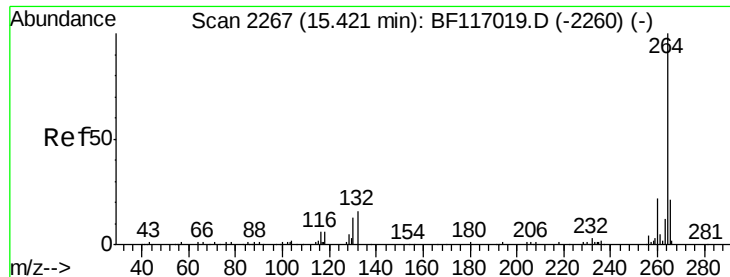
Abundance

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





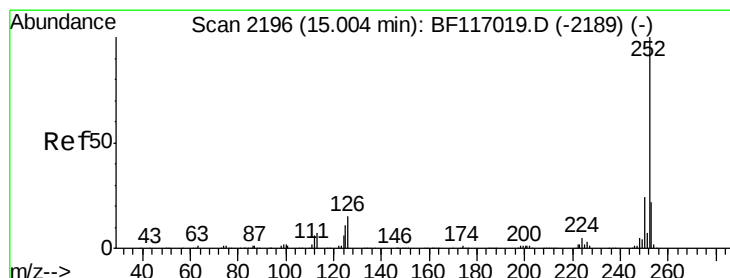
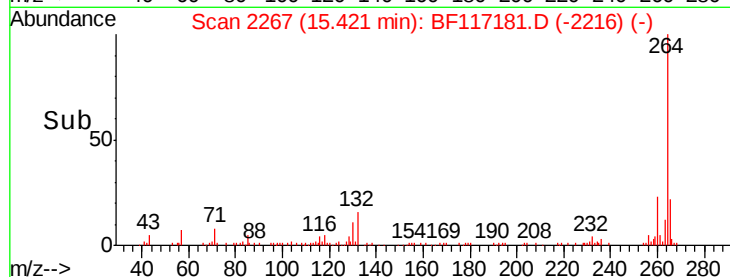
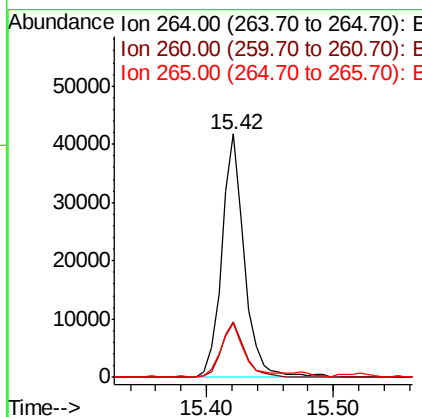
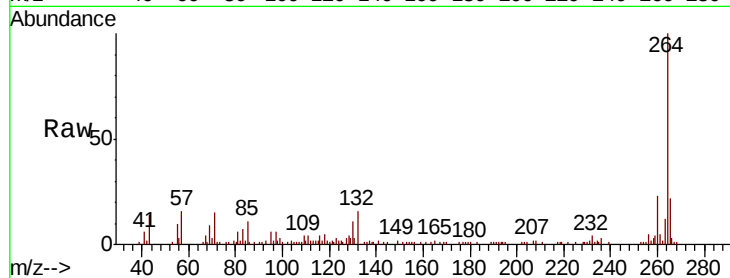
#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.42 min Scan# 2267  
Delta R.T. 0.00 min  
Lab File: BF117181.D  
Acq: 19 Sep 2019 18:16

Instrument :  
BNA\_F  
ClientSampleId :  
SB-26-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.0  | 17.6  | 26.4  |
| 265     | 22.4  | 16.6  | 24.8  |

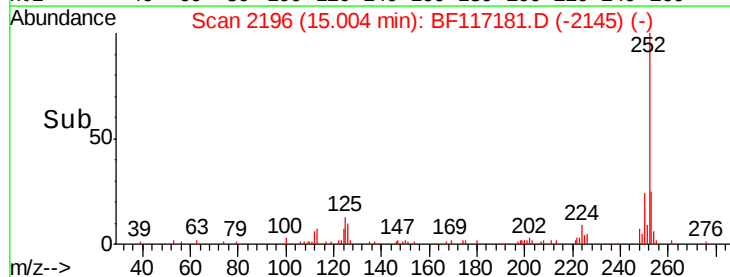
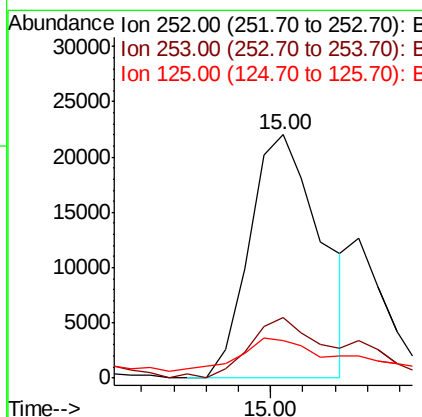
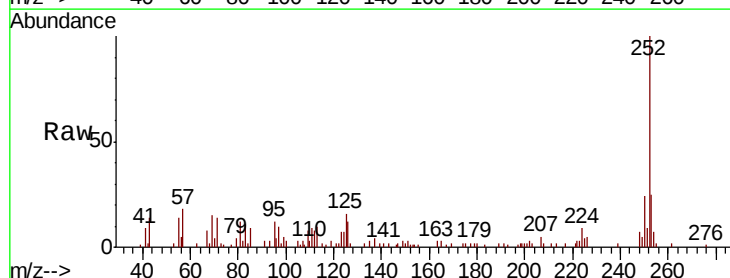
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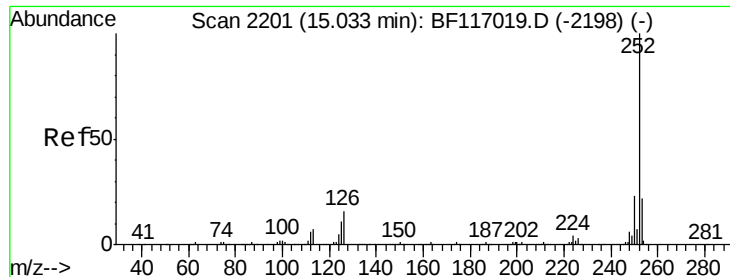
mohammad  
9/20/2019 1:06:52 PM



#88  
Benzo(b)fluoranthene  
Concen: 10.947 ng m  
RT: 15.00 min Scan# 2196  
Delta R.T. 0.00 min  
Lab File: BF117181.D  
Acq: 19 Sep 2019 18:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.9  | 17.6  | 26.4  |
| 125     | 15.6  | 8.6   | 12.8# |





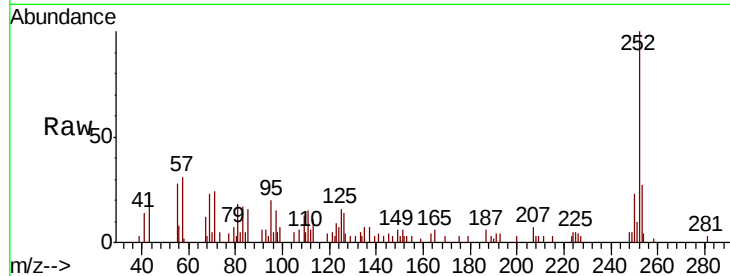
#89  
Benzo(k)fluoranthene  
Concen: 3.506 ng m  
RT: 15.03 min Scan# 2200  
Delta R.T. -0.01 min  
Lab File: BF117181.D  
Acq: 19 Sep 2019 18:16

Instrument :  
BNA\_F  
ClientSampleId :  
SB-26-COMP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 26.9  | 17.4  | 26.2# |
| 125     | 15.8  | 8.8   | 13.2# |

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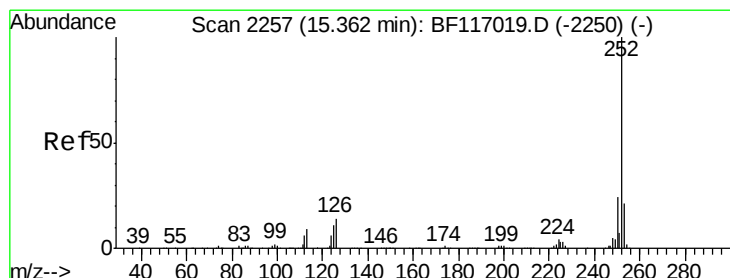
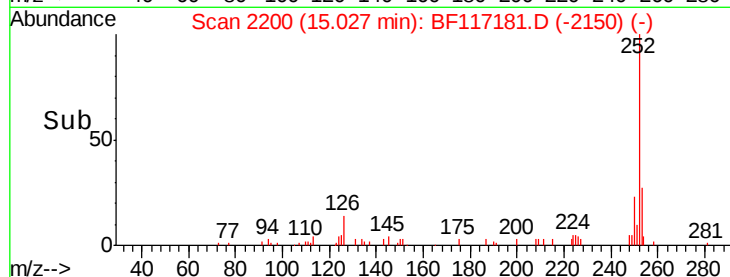
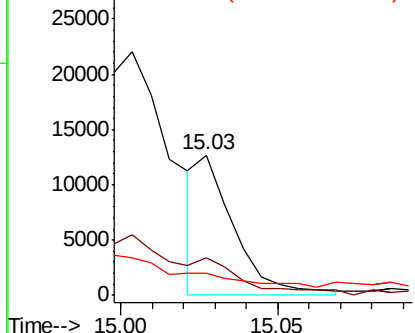


Abundance

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



#90  
Benzo(a)pyrene  
Concen: 8.423 ng  
RT: 15.36 min Scan# 2256  
Delta R.T. -0.01 min  
Lab File: BF117181.D  
Acq: 19 Sep 2019 18:16

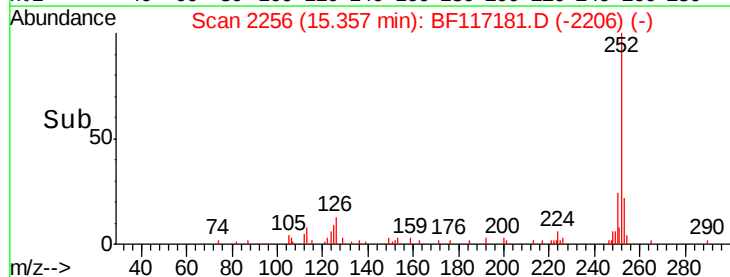
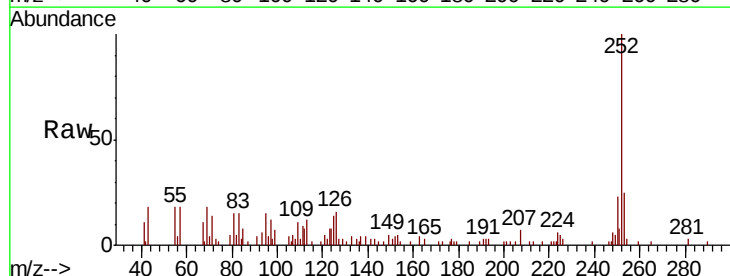
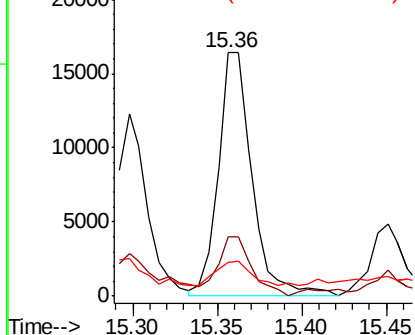
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.6  | 16.6  | 25.0  |
| 125     | 13.8  | 8.9   | 13.3# |

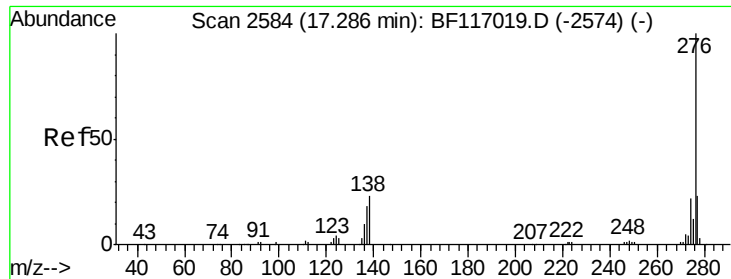
Abundance

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





#92  
 Benzo(a,h,i)perylene  
 Concen: 4.750 ng  
 RT: 17.30 min Scan# 2586  
 Delta R.T. 0.01 min  
 Lab File: BF117181.D  
 Acq: 19 Sep 2019 18:16

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-26-COMP

| Tot Ion | Ion | Ratio | Lower | Upper |
|---------|-----|-------|-------|-------|
| 10281   | 276 | 100   |       |       |
|         | 277 | 24.8  | 18.6  | 27.8  |
|         | 138 | 16.2  | 18.0  | 27.0  |

Manual Integrations  
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