

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF110719\  
 Data File : BF117712.D  
 Acq On : 7 Nov 2019 18:40  
 Operator : JU  
 Sample : K5723-05  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 8-B

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Quant Time: Nov 08 02:30:34 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF110619.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 06 17:27:10 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.93  | 152  | 294520   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.22  | 136  | 1152715  | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.98  | 164  | 605658   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.47 | 188  | 1112062  | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.12 | 240  | 715527   | 20.00 | ng    | -0.01    |
| 87) Perylene-d12          | 15.63 | 264  | 846340   | 20.00 | ng    | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|-------|------|----------|-------|-------|----------|
| 5) 2-Fluorophenol           | 5.55  | 112  | 1368769  | 84.13 | ng    | 0.00     |
| 7) Phenol-d6                | 6.55  | 99   | 1734720  | 86.47 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.49  | 82   | 1022966  | 52.39 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.77 | 330  | 474354   | 80.06 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.30  | 172  | 1790060  | 58.31 | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.06 | 244  | 1839114  | 52.91 | ng    | 0.00     |

| Target Compounds           | R.T.  | QIon | Response | Conc  | Units | Qvalue |
|----------------------------|-------|------|----------|-------|-------|--------|
| 10) Phenol                 | 6.56  | 94   | 86306    | 3.992 | ng    | 99     |
| 50) Dimethylphthalate      | 9.69  | 163  | 336679   | 8.223 | ng    | 97     |
| 71) Phenanthrene           | 11.49 | 178  | 128773   | 2.416 | ng    | 94     |
| 75) Fluoranthene           | 12.69 | 202  | 300703   | 5.525 | ng    | 94     |
| 78) Pyrene                 | 12.92 | 202  | 303825   | 5.817 | ng    | 95     |
| 81) Benzo(a)anthracene     | 14.10 | 228  | 155510   | 3.492 | ng    | 98     |
| 83) Chrysene               | 14.14 | 228  | 196858   | 4.476 | ng    | 99     |
| 86) Indeno(1,2,3-cd)pyrene | 17.15 | 276  | 91753    | 2.241 | ng    | 93     |
| 88) Benzo(b)fluoranthene   | 15.18 | 252  | 238763m  | 4.479 | ng    |        |
| 90) Benzo(a)pyrene         | 15.56 | 252  | 125832   | 2.723 | ng    | 98     |
| 92) Benzo(g,h,i)perylene   | 17.61 | 276  | 82528    | 2.055 | ng    | 99     |

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

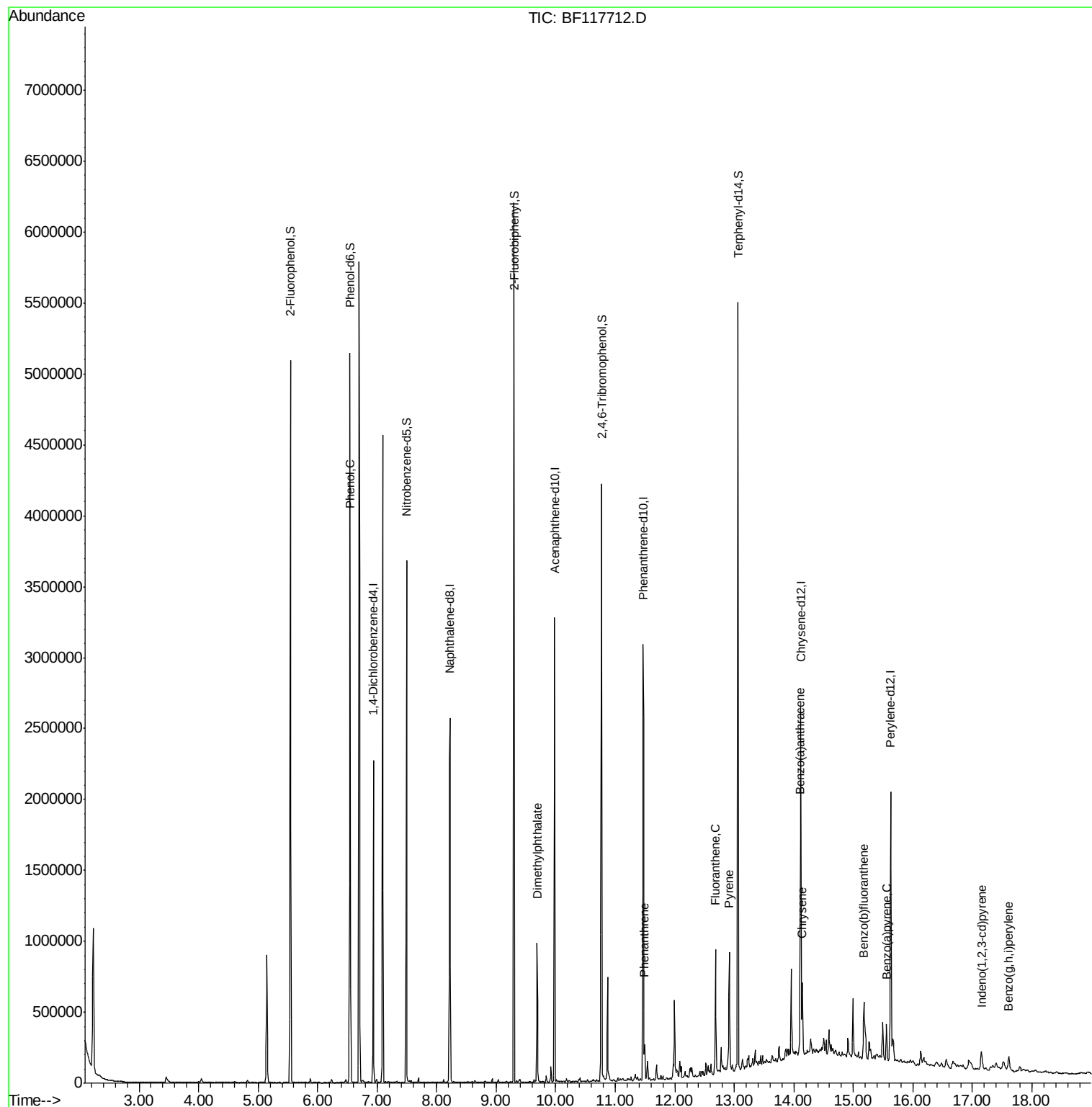
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF110719\  
Data File : BF117712.D  
Acq On : 7 Nov 2019 18:40  
Operator : JU  
Sample : K5723-05  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

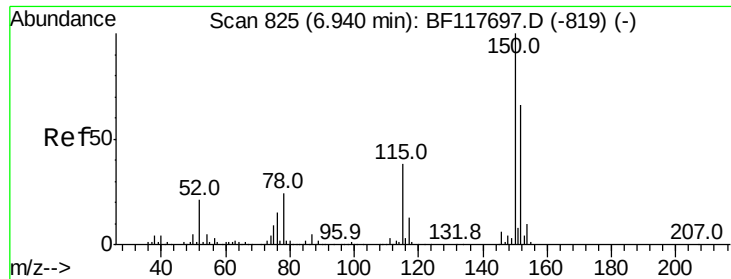
Instrument :  
BNA\_F  
ClientSampled :  
8-B

Quant Time: Nov 08 02:30:34 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF110619.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 06 17:27:10 2019  
Response via : Initial Calibration

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#1

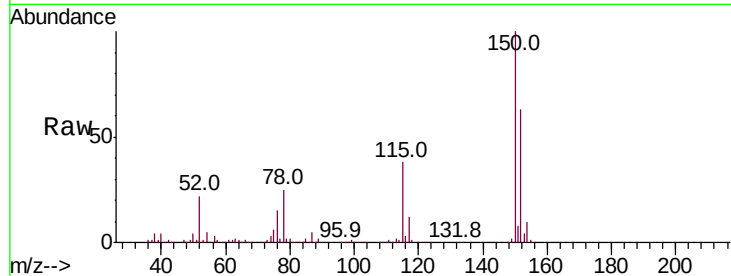
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.93 min Scan# 824  
Delta R.T. -0.01 min  
Lab File: BF117712.D  
Acq: 7 Nov 2019 18:40

Instrument :  
BNA\_F  
ClientSampleId :  
8-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 158.5 | 121.4 | 182.2 |
| 115     | 59.6  | 46.7  | 70.1  |

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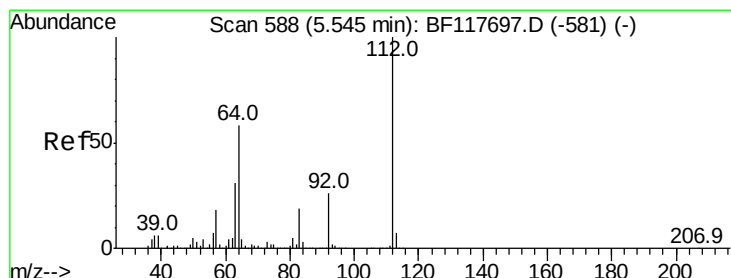
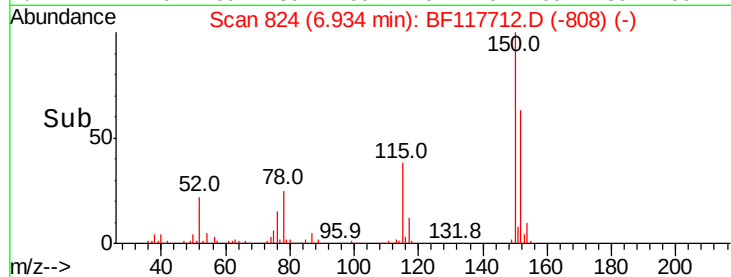
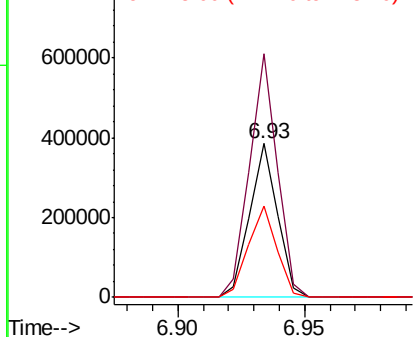


Abundance

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: 84.126 ng  
RT: 5.55 min Scan# 588  
Delta R.T. 0.00 min  
Lab File: BF117712.D  
Acq: 7 Nov 2019 18:40

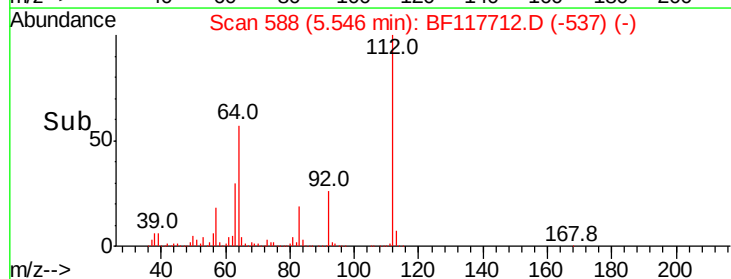
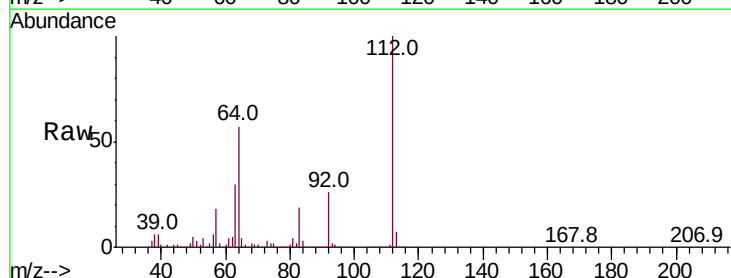
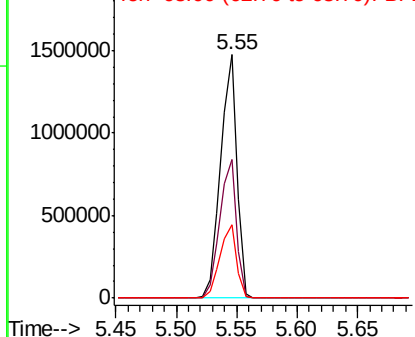
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 56.7  | 46.4  | 69.6  |
| 63      | 30.3  | 24.6  | 37.0  |

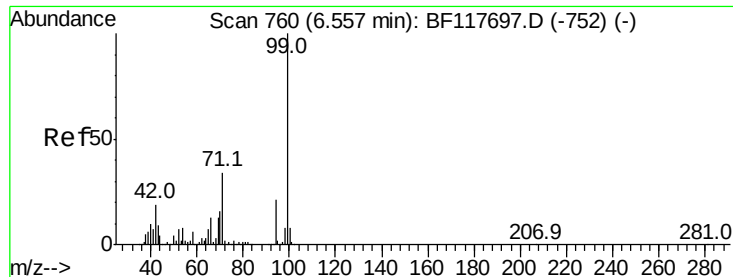
Abundance

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: 86.468 ng

RT: 6.55 min Scan# 758

Delta R.T. -0.01 min

Lab File: BF117712.D

Acq: 7 Nov 2019 18:40

Instrument :

BNA\_F

ClientSampleId :

8-B

Tot Ion: 99 Resp: 1734720

Ion Ratio Lower Upper

99 100

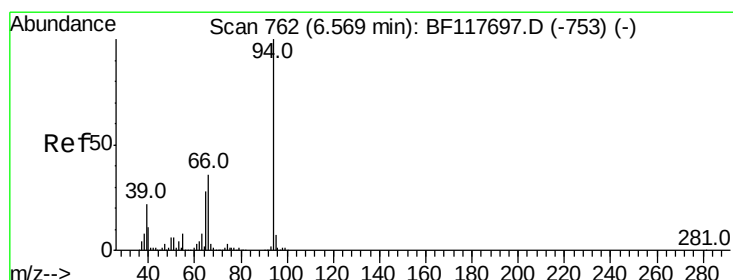
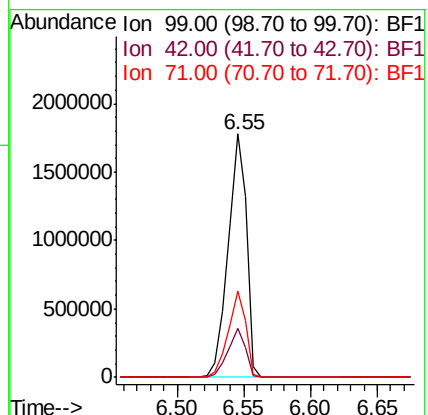
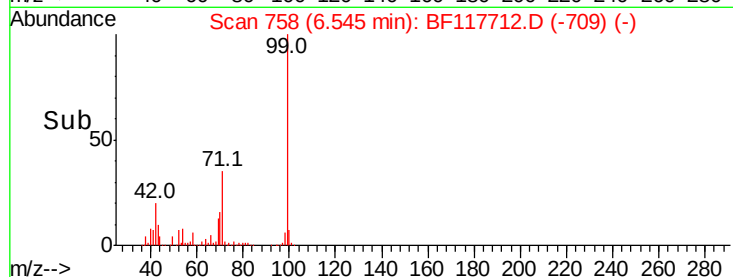
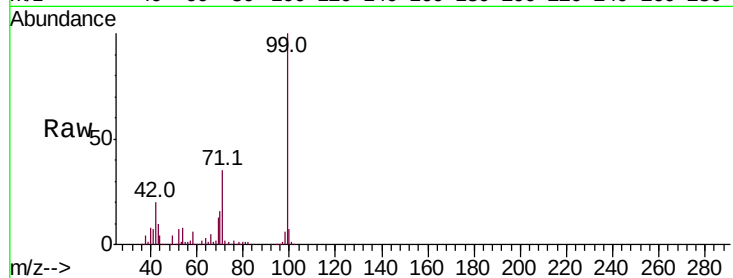
42 20.3 15.3 22.9

71 35.3 26.8 40.2

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#10

Phenol

Concen: 3.992 ng

RT: 6.56 min Scan# 760

Delta R.T. -0.01 min

Lab File: BF117712.D

Acq: 7 Nov 2019 18:40

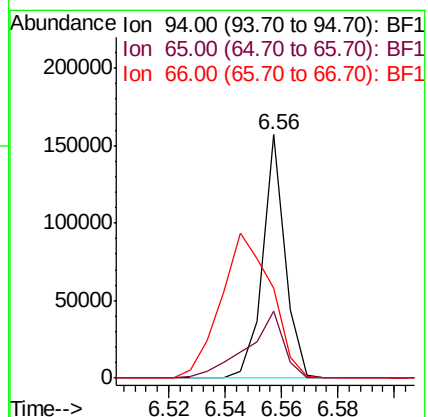
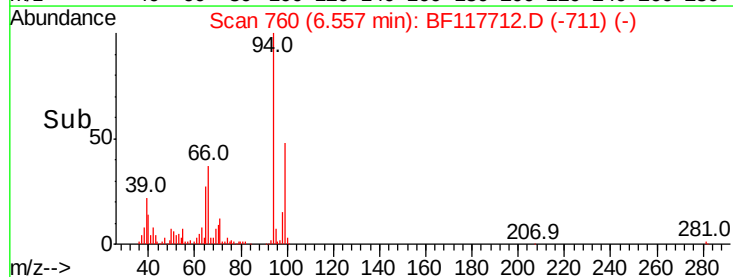
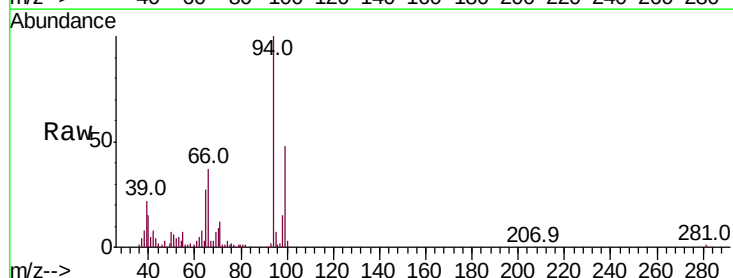
Tgt Ion: 94 Resp: 86306

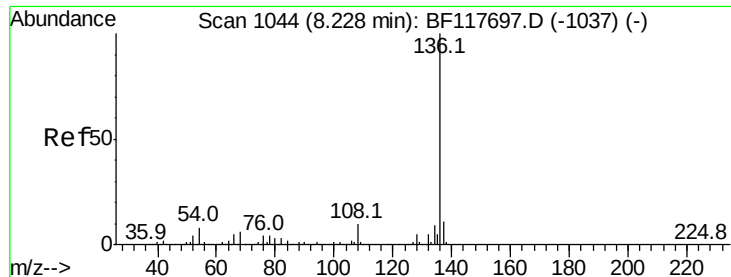
Ion Ratio Lower Upper

94 100

65 27.3 7.6 47.6

66 37.1 16.1 56.1





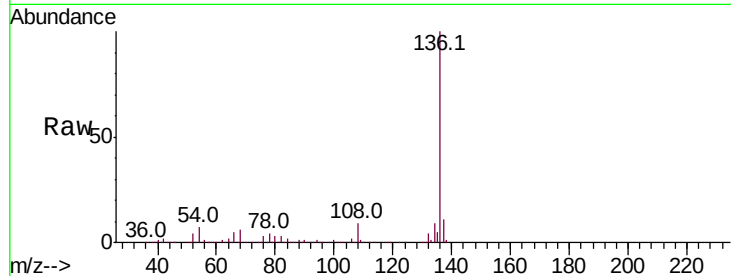
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.22 min Scan# 1043  
Delta R.T. -0.01 min  
Lab File: BF117712.D  
Acq: 7 Nov 2019 18:40

Instrument :  
BNA\_F  
ClientSampleId :  
8-B

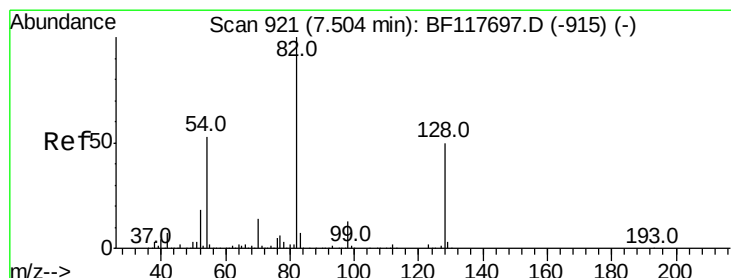
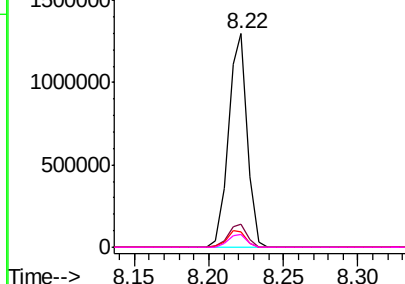
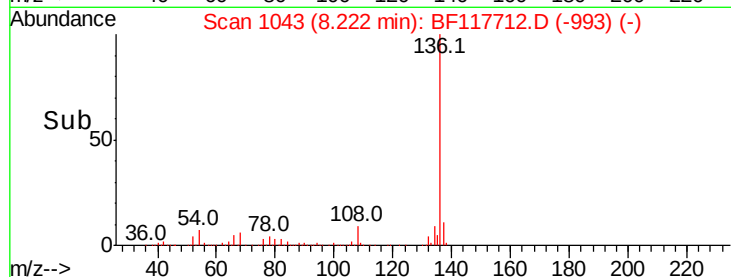
| Tot Ion | 136   | Resp  | 1152715 |
|---------|-------|-------|---------|
| Ion     | Ratio | Lower | Upper   |
| 136     | 100   |       |         |
| 137     | 11.0  | 8.8   | 13.2    |
| 54      | 7.5   | 6.0   | 9.0     |
| 68      | 5.9   | 4.8   | 7.2     |

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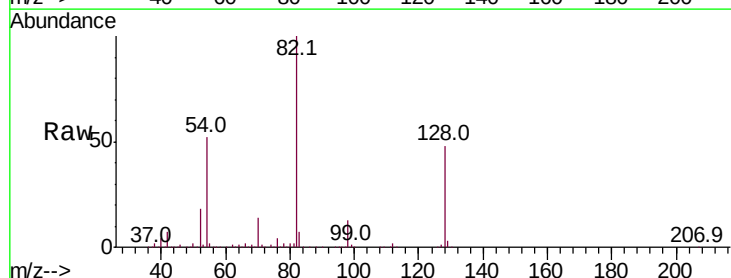


Abundance Ion 136.00 (135.70 to 136.70): E  
2000000  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF1  
Ion 68.00 (67.70 to 68.70): BF1

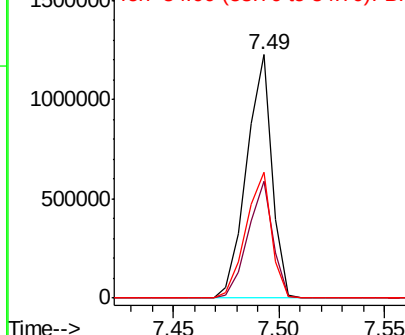
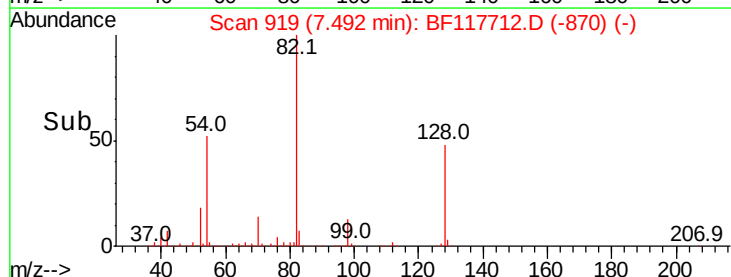


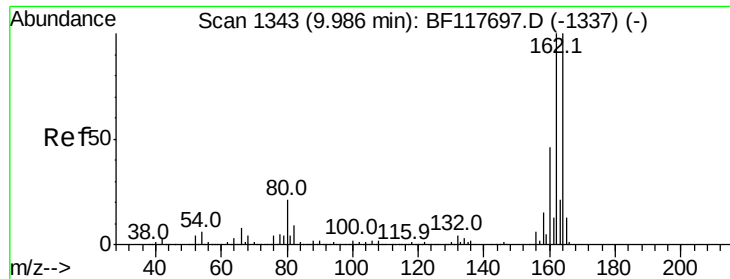
#23  
Nitrobenzene-d5  
Concen: 52.394 ng  
RT: 7.49 min Scan# 919  
Delta R.T. -0.01 min  
Lab File: BF117712.D  
Acq: 7 Nov 2019 18:40

| Tgt Ion | 82    | Resp  | 1022966 |
|---------|-------|-------|---------|
| Ion     | Ratio | Lower | Upper   |
| 82      | 100   |       |         |
| 128     | 47.8  | 40.2  | 60.2    |
| 54      | 51.5  | 42.0  | 63.0    |



Abundance Ion 82.00 (81.70 to 82.70): BF1  
1500000  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF1





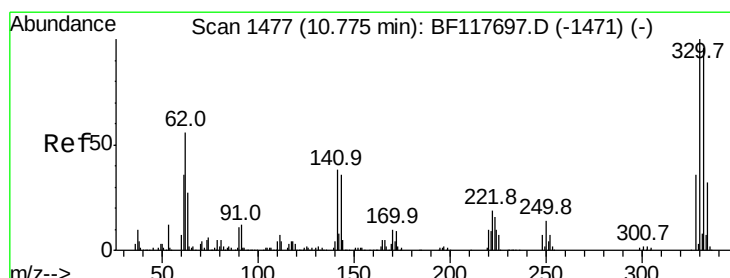
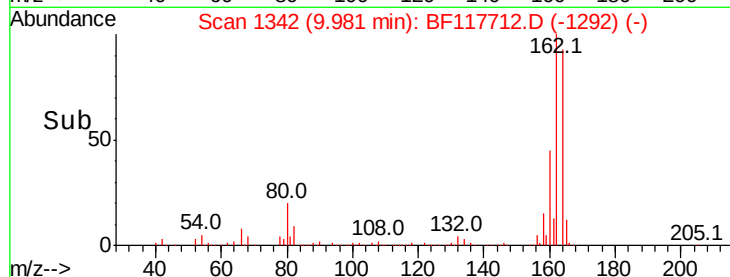
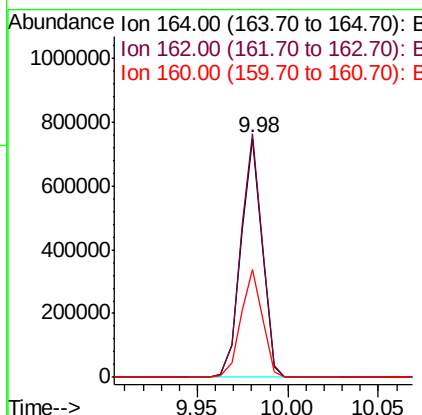
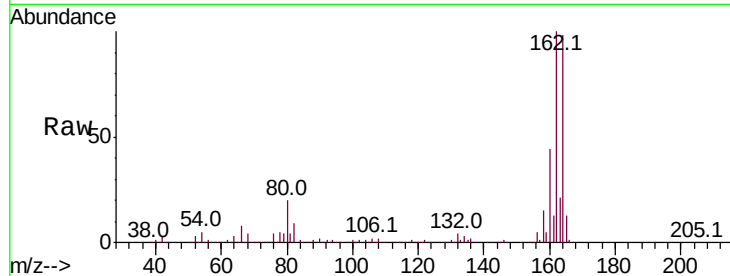
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.98 min Scan# 1342  
Delta R.T. -0.01 min  
Lab File: BF117712.D  
Acq: 7 Nov 2019 18:40

Instrument :  
BNA\_F  
ClientSampled :  
8-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 101.9 | 79.7  | 119.5 |
| 160     | 45.3  | 36.5  | 54.7  |

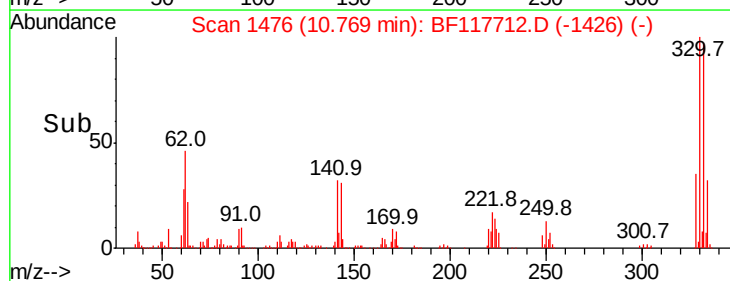
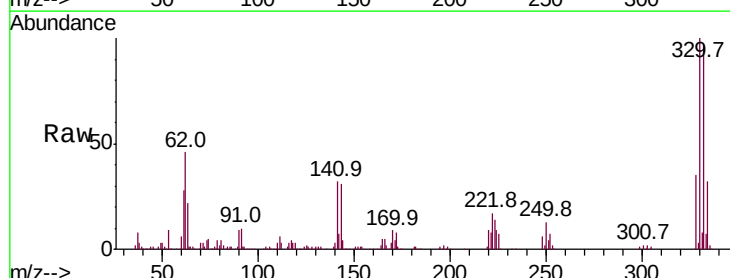
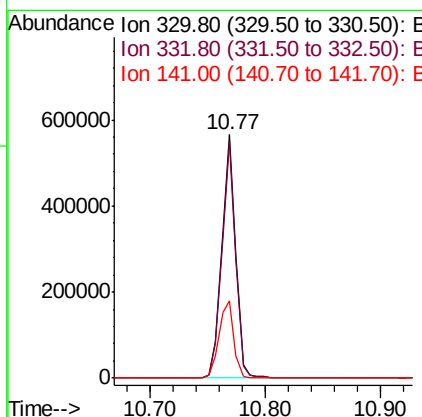
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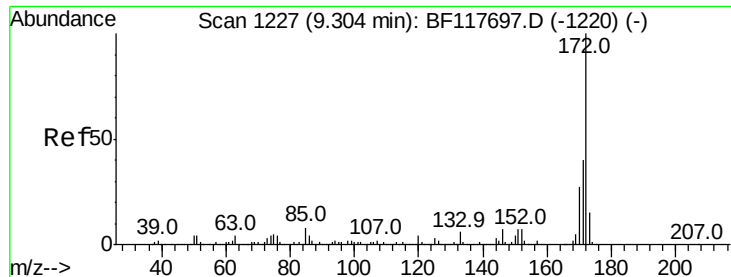
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#42  
2,4,6-Tribromophenol  
Concen: 80.064 ng  
RT: 10.77 min Scan# 1476  
Delta R.T. -0.01 min  
Lab File: BF117712.D  
Acq: 7 Nov 2019 18:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 95.8  | 77.4  | 116.0 |
| 141     | 33.9  | 28.0  | 42.0  |





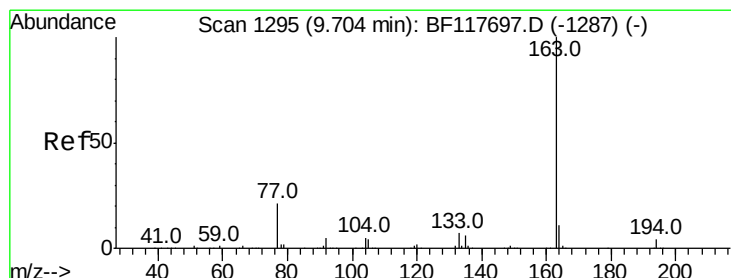
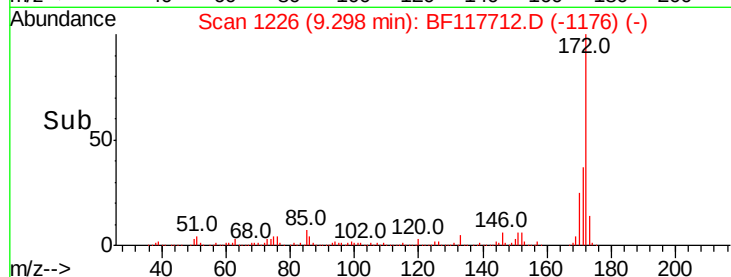
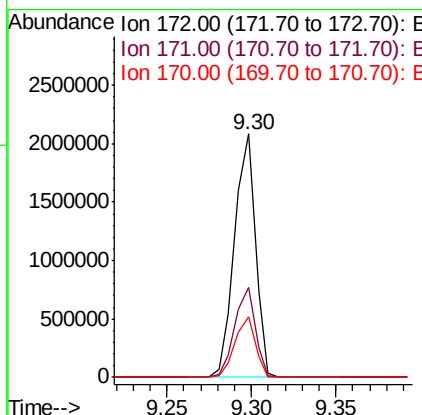
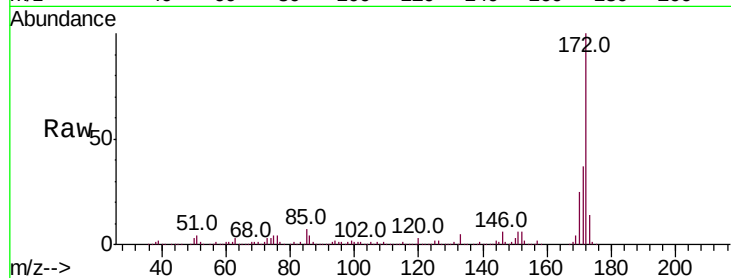
#45  
2-Fluorobiphenyl  
Concen: 58.314 ng  
RT: 9.30 min Scan# 1226  
Delta R.T. -0.01 min  
Lab File: BF117712.D  
Acq: 7 Nov 2019 18:40

Instrument :  
BNA\_F  
ClientSampled :  
8-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.8  | 31.8  | 47.8  |
| 170     | 24.9  | 21.6  | 32.4  |

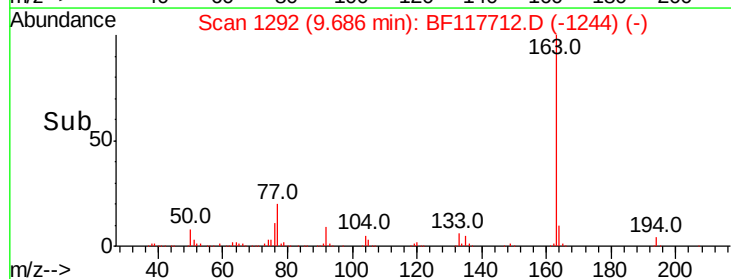
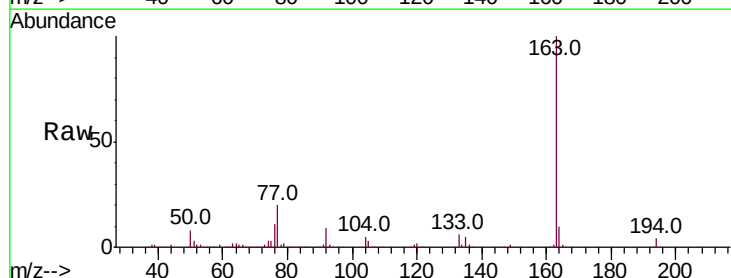
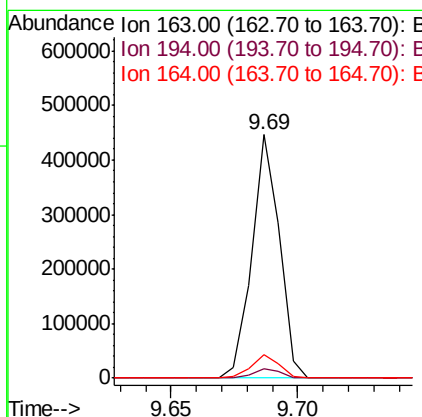
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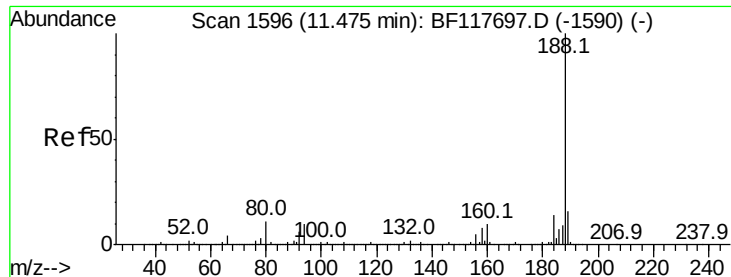
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#50  
Dimethylphthalate  
Concen: 8.223 ng  
RT: 9.69 min Scan# 1292  
Delta R.T. -0.02 min  
Lab File: BF117712.D  
Acq: 7 Nov 2019 18:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.9   | 3.4   | 5.0   |
| 164     | 9.9   | 8.9   | 13.3  |





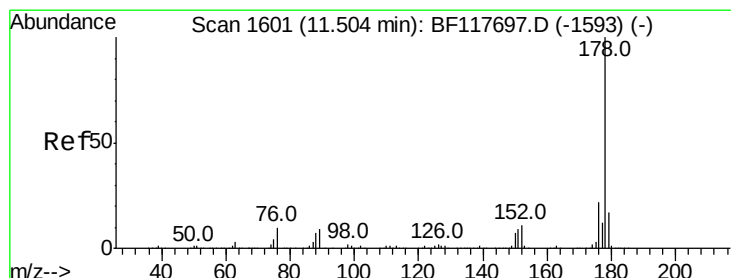
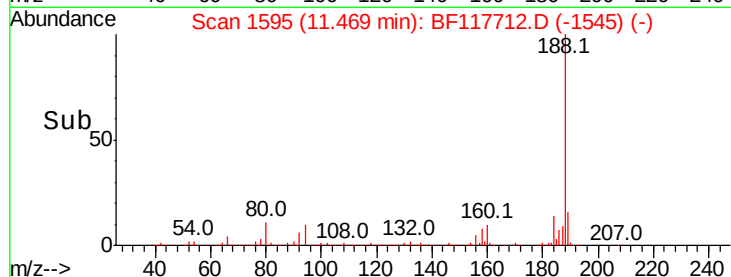
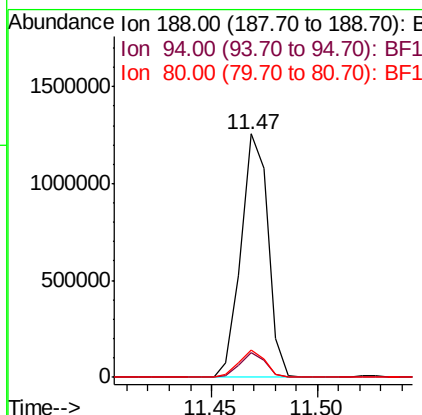
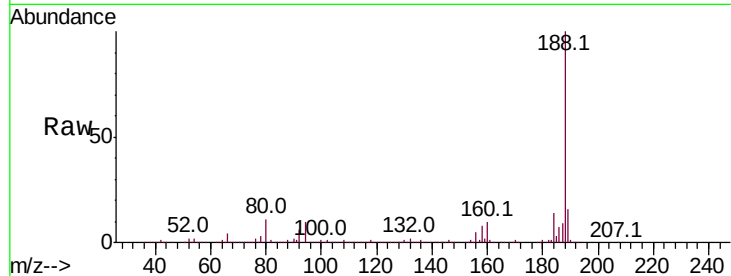
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.47 min Scan# 1595  
Delta R.T. -0.01 min  
Lab File: BF117712.D  
Acq: 7 Nov 2019 18:40

Instrument :  
BNA\_F  
ClientSampleId :  
8-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 10.3  | 8.2   | 12.4  |
| 80      | 11.0  | 8.6   | 13.0  |

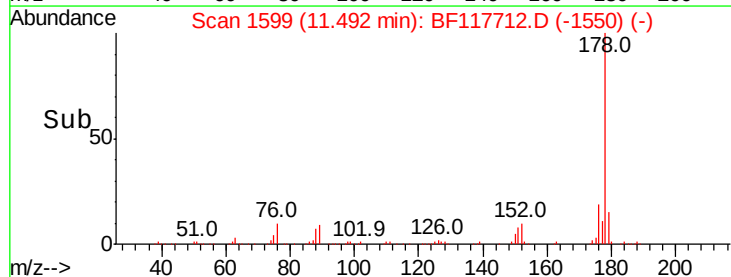
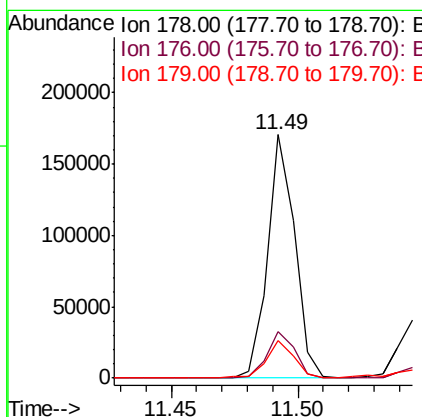
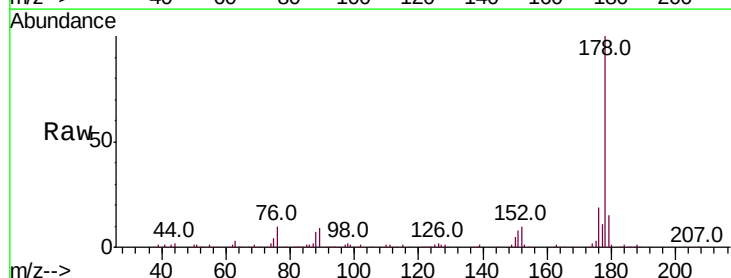
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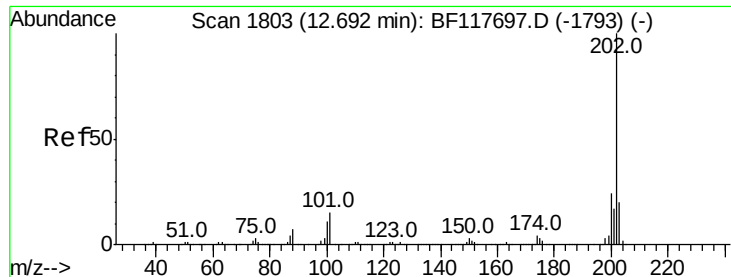


#71  
Phenanthrene  
Concen: 2.416 ng  
RT: 11.49 min Scan# 1599  
Delta R.T. -0.01 min  
Lab File: BF117712.D  
Acq: 7 Nov 2019 18:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.0  | 17.7  | 26.5  |
| 179     | 15.3  | 13.8  | 20.8  |







#75

Fluoranthene

Concen: 5.525 ng

RT: 12.69 min Scan# 1802

Delta R.T. -0.01 min

Lab File: BF117712.D

Acq: 7 Nov 2019 18:40

Instrument :

BNA\_F

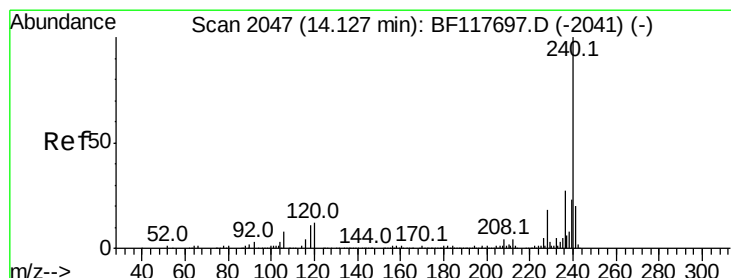
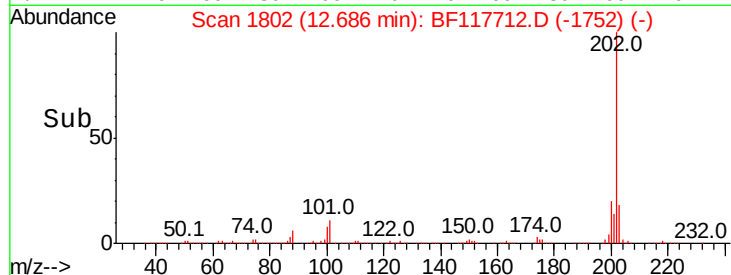
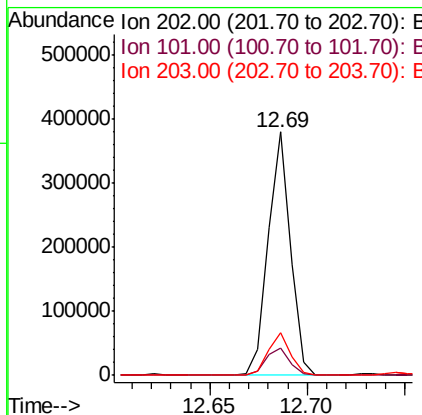
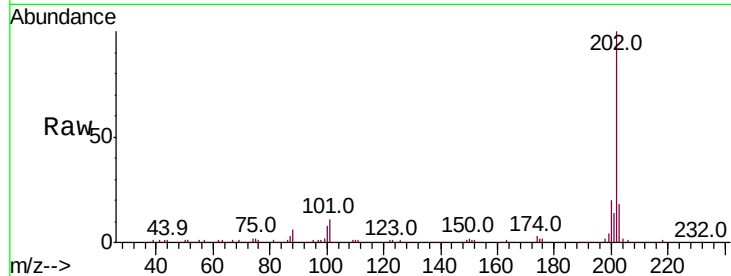
ClientSampled :

8-B

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 300703 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 11.3  | 0.0   | 34.5   |
| 203       | 17.5  | 0.0   | 39.8   |

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#76

Chrysene-d12

Concen: 20.000 ng

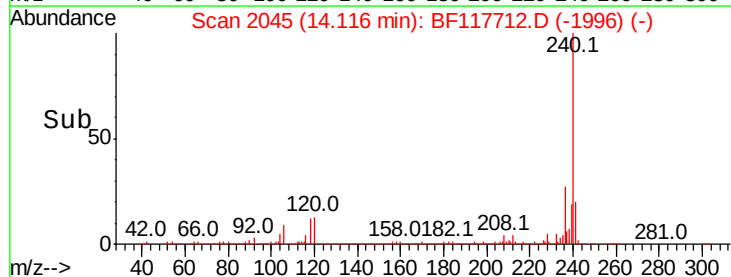
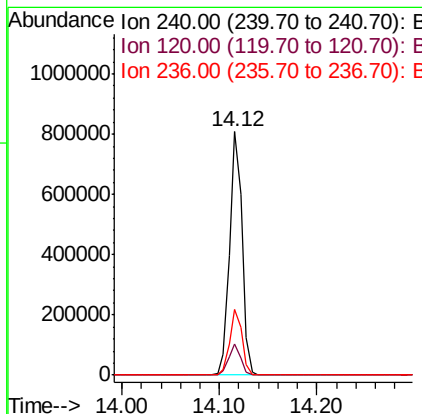
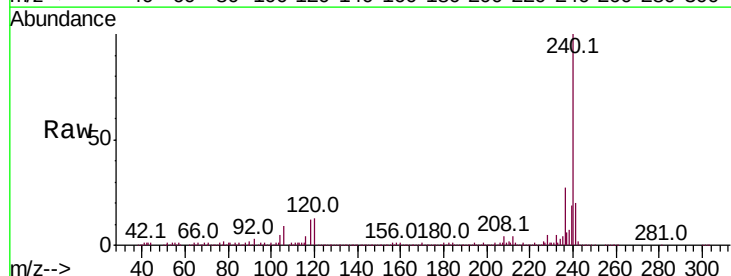
RT: 14.12 min Scan# 2045

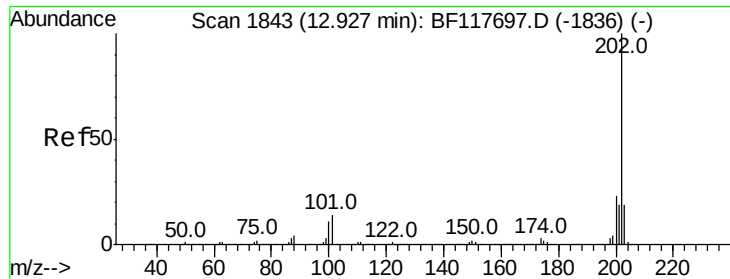
Delta R.T. -0.01 min

Lab File: BF117712.D

Acq: 7 Nov 2019 18:40

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 715527 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 13.0  | 9.7   | 14.5   |
| 236       | 27.1  | 21.9  | 32.9   |





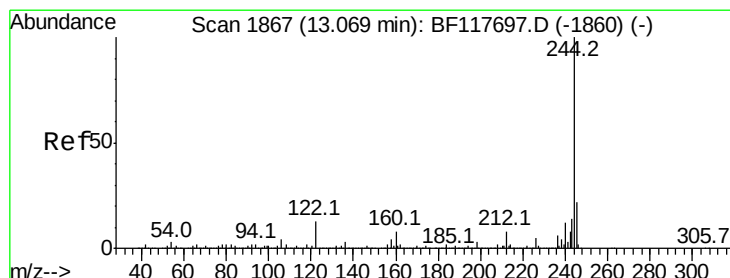
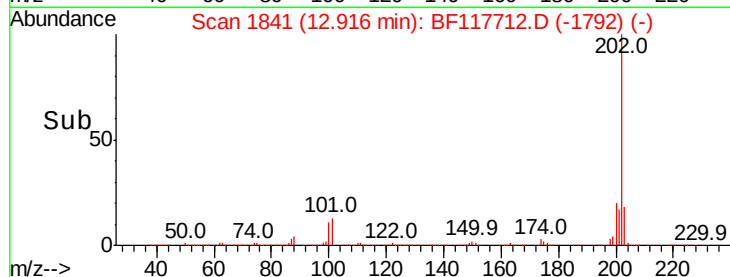
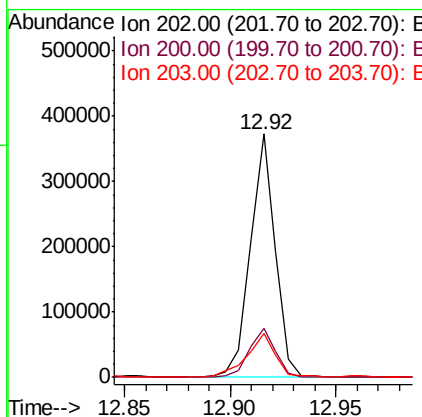
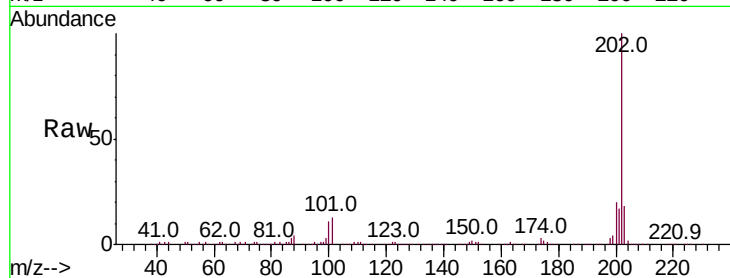
#78  
Pvrene  
Concen: 5.817 ng  
RT: 12.92 min Scan# 1841  
Delta R.T. -0.01 min  
Lab File: BF117712.D  
Acq: 7 Nov 2019 18:40

Instrument :  
BNA\_F  
ClientSampled :  
8-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.0  | 18.8  | 28.2  |
| 203     | 17.9  | 15.2  | 22.8  |

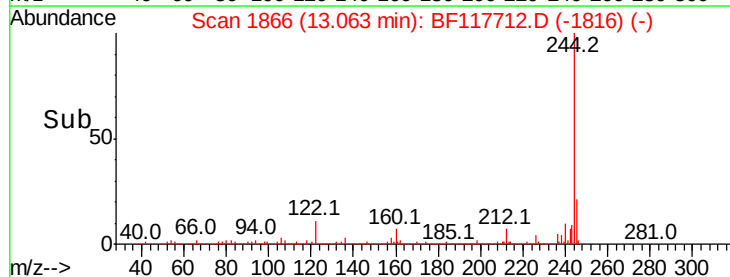
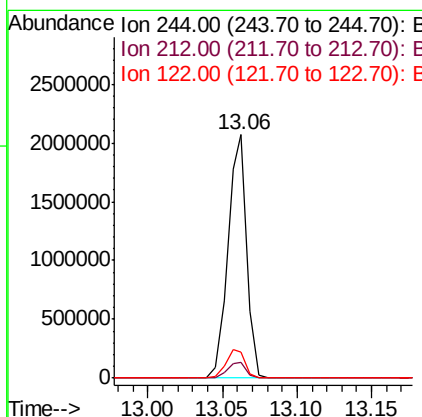
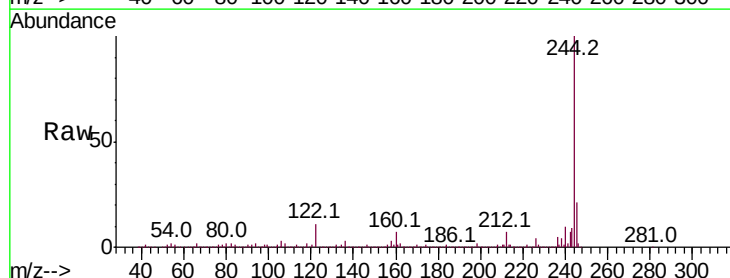
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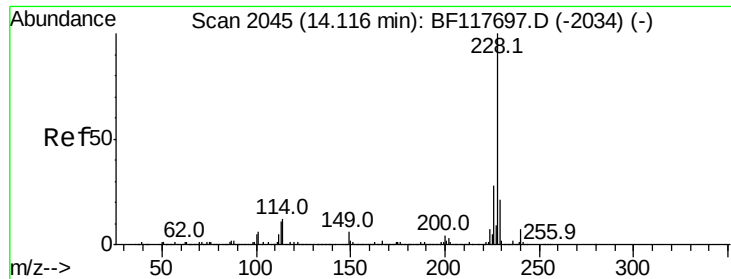
Sohil  
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#79  
Terphenyl-d14  
Concen: 52.912 ng  
RT: 13.06 min Scan# 1866  
Delta R.T. -0.01 min  
Lab File: BF117712.D  
Acq: 7 Nov 2019 18:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.7   | 6.4   | 9.6   |
| 122     | 10.9  | 10.0  | 15.0  |





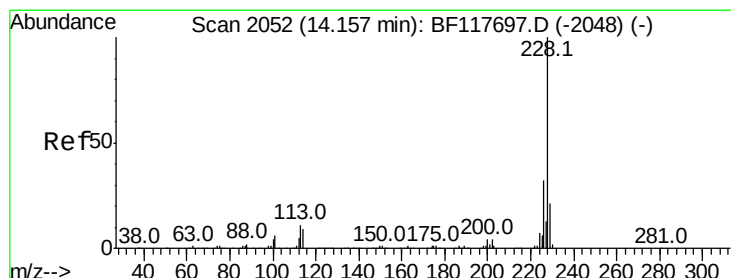
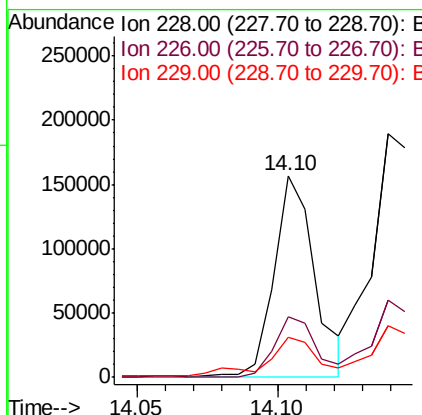
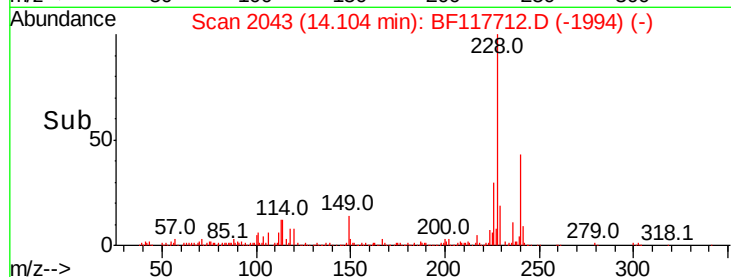
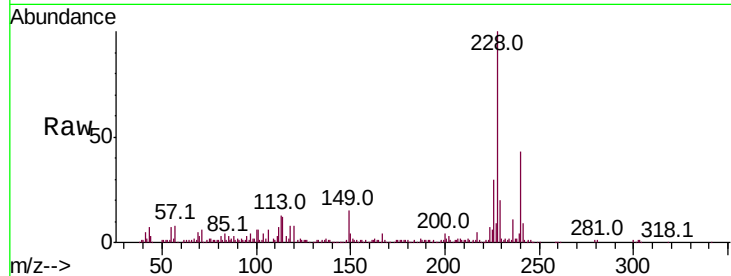
#81  
Benzo(a)anthracene  
Concen: 3.492 ng  
RT: 14.10 min Scan# 2043  
Delta R.T. -0.01 min  
Lab File: BF117712.D  
Acq: 7 Nov 2019 18:40

Instrument :  
BNA\_F  
ClientSampled :  
8-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.9  | 22.8  | 34.2  |
| 229     | 20.2  | 16.9  | 25.3  |

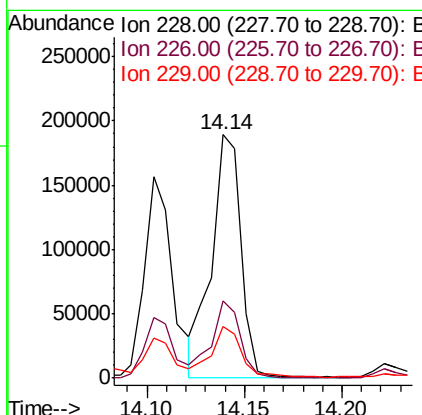
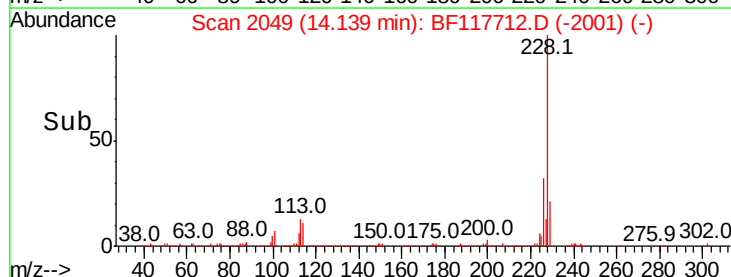
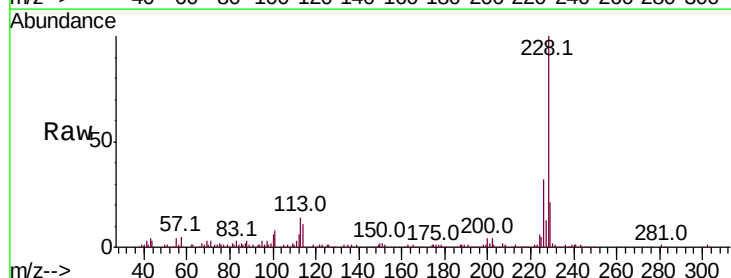
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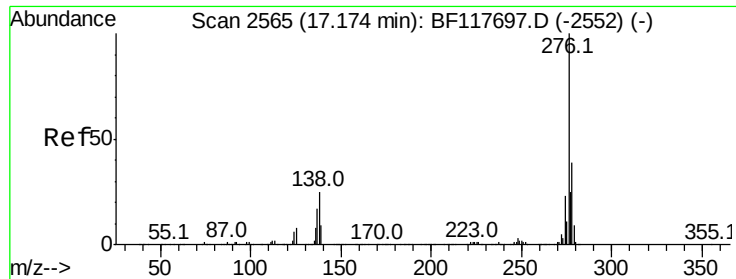
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#83  
Chrysene  
Concen: 4.476 ng  
RT: 14.14 min Scan# 2049  
Delta R.T. -0.02 min  
Lab File: BF117712.D  
Acq: 7 Nov 2019 18:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 32.0  | 25.4  | 38.2  |
| 229     | 21.3  | 16.6  | 24.8  |





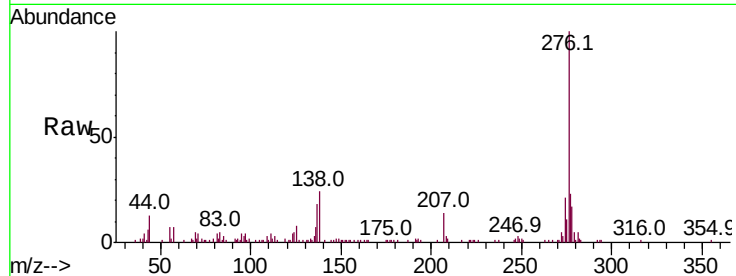
#86  
Indeno(1,2,3-cd)pyrene  
Concen: 2.241 ng  
RT: 17.15 min Scan# 2561  
Delta R.T. -0.02 min  
Lab File: BF117712.D  
Acq: 7 Nov 2019 18:40

Instrument :  
BNA\_F  
ClientSampleId :  
8-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 23.8  | 22.4  | 33.6  |
| 277     | 22.2  | 20.6  | 30.8  |

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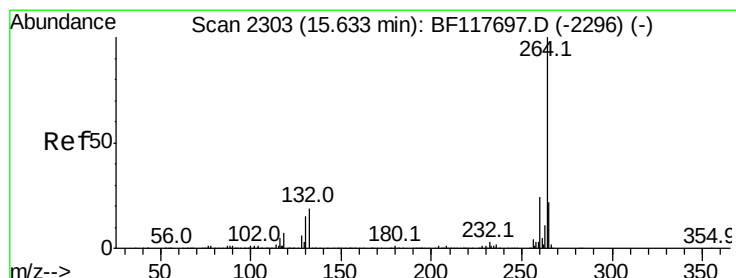
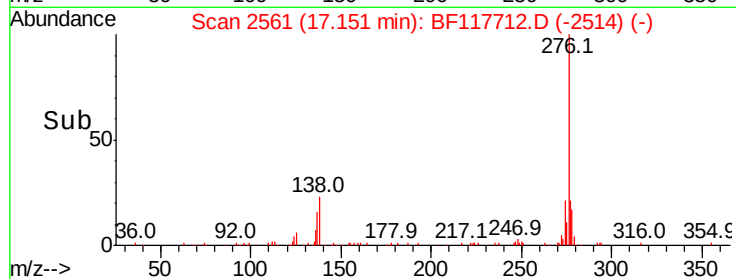
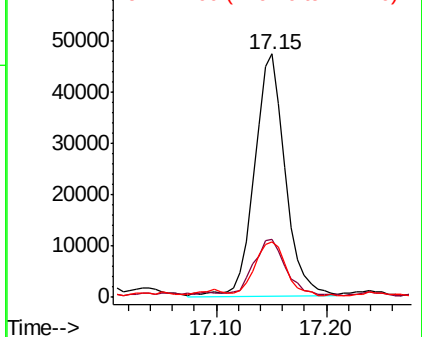


Abundance

Ion 276.00 (275.70 to 276.70): E

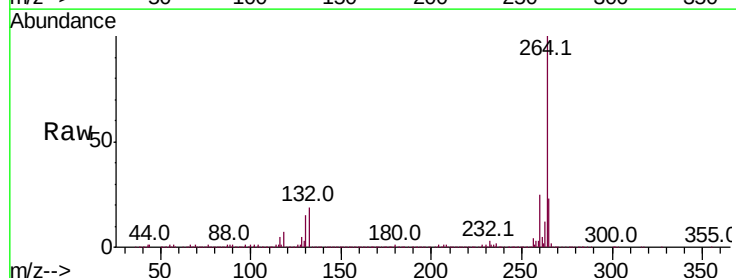
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.63 min Scan# 2302  
Delta R.T. -0.01 min  
Lab File: BF117712.D  
Acq: 7 Nov 2019 18:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 24.6  | 18.8  | 28.2  |
| 265     | 22.8  | 17.7  | 26.5  |

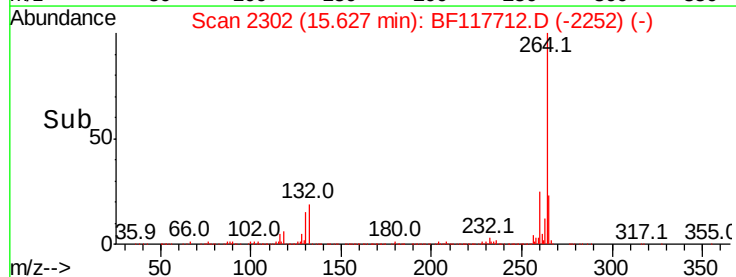
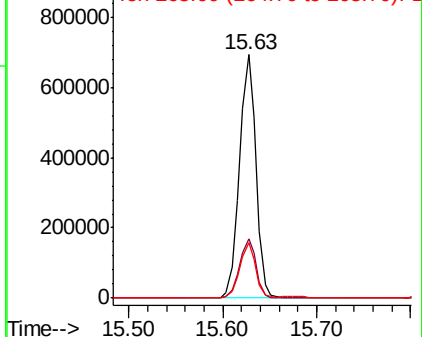


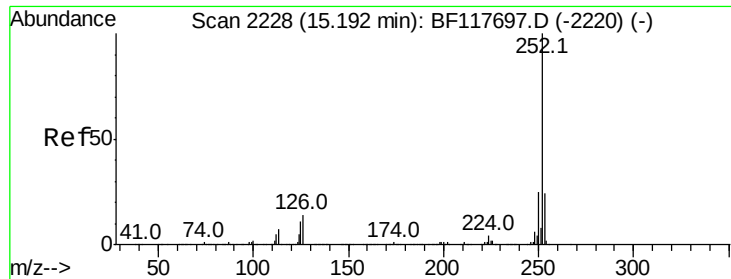
Abundance

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





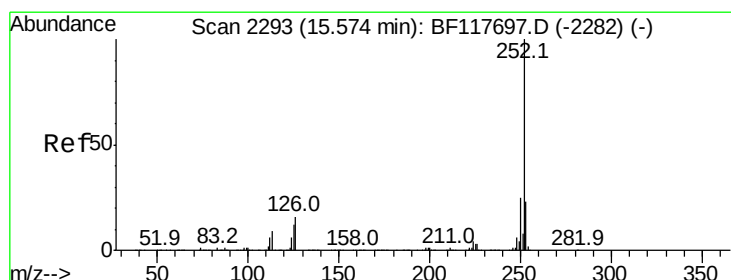
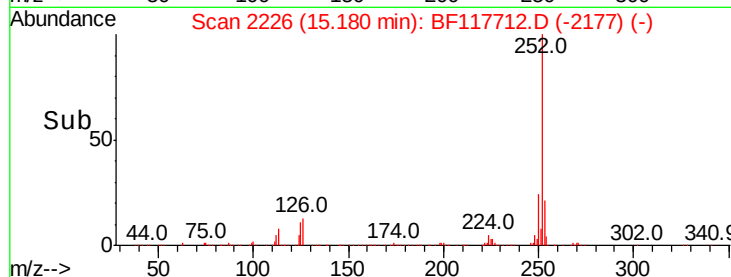
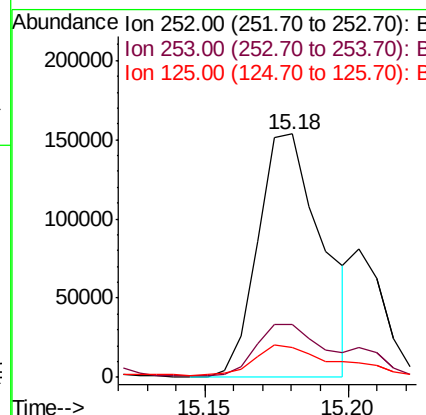
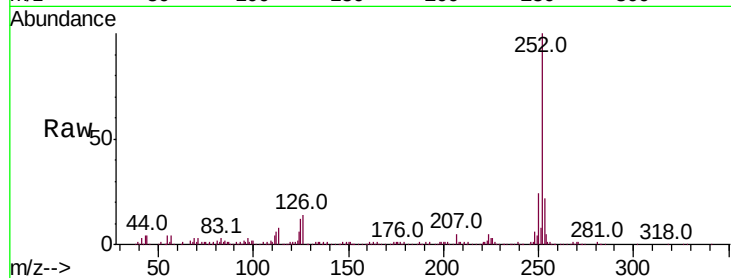
#88  
Benzo(b)fluoranthene  
Concen: 4.479 ng m  
RT: 15.18 min Scan# 2226  
Delta R.T. -0.01 min  
Lab File: BF117712.D  
Acq: 7 Nov 2019 18:40

Instrument :  
BNA\_F  
ClientSampleId :  
8-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.7  | 18.9  | 28.3  |
| 125     | 12.3  | 8.5   | 12.7  |

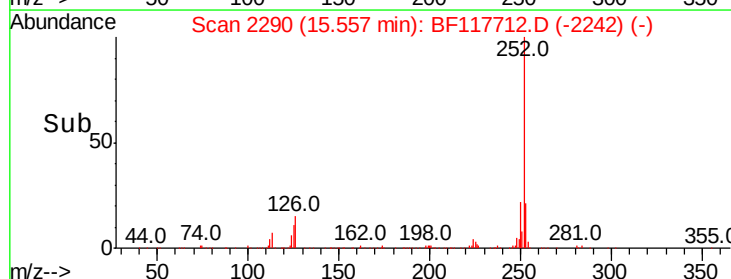
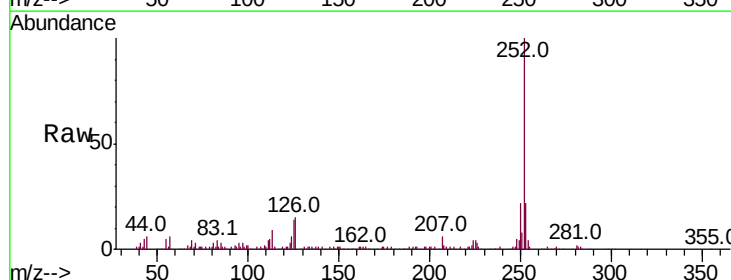
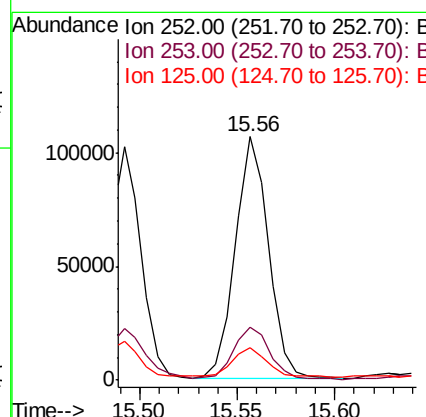
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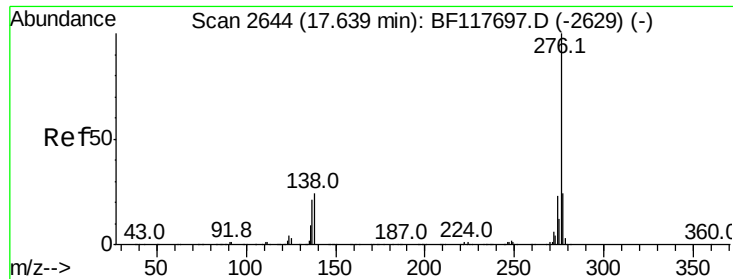
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#90  
Benzo(a)pyrene  
Concen: 2.723 ng  
RT: 15.56 min Scan# 2290  
Delta R.T. -0.02 min  
Lab File: BF117712.D  
Acq: 7 Nov 2019 18:40

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 21.9  | 18.0  | 27.0  |
| 125     | 13.5  | 9.5   | 14.3  |





#92  
 Benzo(a,h,i)perylene  
 Concen: 2.055 ng  
 RT: 17.61 min Scan# 2639  
 Delta R.T. -0.03 min  
 Lab File: BF117712.D  
 Acq: 7 Nov 2019 18:40

Instrument :  
 BNA\_F  
 ClientSampleId :  
 8-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 23.0  | 19.4  | 29.0  |
| 138     | 24.2  | 19.2  | 28.8  |

Manual Integrations  
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