

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021220\  
 Data File : BF118910.D  
 Acq On : 12 Feb 2020 11:30  
 Operator : CG/JU  
 Sample : L1468-04DL 5X  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP10-EP2-3DL

Manual Integrations  
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mohammad  
 2/13/2020 3:34:16 PM

Quant Time: Feb 13 00:18:16 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Feb 03 16:26:03 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)   |
|-----------------------------|-------|------|----------|--------|-------|------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.80  | 152  | 277935   | 20.00  | ng    | -0.01      |
| 21) Naphthalene-d8          | 8.09  | 136  | 825214   | 20.00  | ng    | -0.02      |
| 39) Acenaphthene-d10        | 9.84  | 164  | 420343   | 20.00  | ng    | -0.02      |
| 64) Phenanthrene-d10        | 11.33 | 188  | 691141   | 20.00  | ng    | -0.01      |
| 76) Chrysene-d12            | 13.97 | 240  | 462348   | 20.00  | ng    | -0.01      |
| 87) Perylene-d12            | 15.42 | 264  | 542116   | 20.00  | ng    | -0.01      |
| System Monitoring Compounds |       |      |          |        |       |            |
| 5) 2-Fluorophenol           | 5.43  | 112  | 304992   | 20.77  | ng    | 0.00       |
| 7) Phenol-d6                | 6.44  | 99   | 355793   | 19.52  | ng    | -0.01      |
| 23) Nitrobenzene-d5         | 7.36  | 82   | 176868   | 12.78  | ng    | -0.02      |
| 42) 2,4,6-Tribromophenol    | 10.63 | 330  | 72725    | 14.46  | ng    | -0.02      |
| 45) 2-Fluorobiphenyl        | 9.16  | 172  | 332208   | 14.13  | ng    | -0.02      |
| 79) Terphenyl-d14           | 12.90 | 244  | 312743   | 13.89  | ng    | -0.02      |
| Target Compounds            |       |      |          |        |       |            |
| 31) Naphthalene             | 8.11  | 128  | 1611583  | 42.700 | ng    | Qvalue 100 |
| 37) 2-Methylnaphthalene     | 8.80  | 142  | 323792   | 12.370 | ng    | 98         |
| 38) 1-Methylnaphthalene     | 8.90  | 142  | 340457   | 13.826 | ng    | 100        |
| 46) 1,1'-Biphenyl           | 9.26  | 154  | 144296   | 4.963  | ng    | 99         |
| 49) Acenaphthylene          | 9.70  | 152  | 324131   | 9.287  | ng    | 97         |
| 52) Acenaphthene            | 9.87  | 154  | 293791   | 12.774 | ng    | 99         |
| 55) Dibenzofuran            | 10.05 | 168  | 366808   | 11.036 | ng    | 95         |
| 58) Fluorene                | 10.39 | 166  | 552311   | 22.088 | ng    | 98         |
| 71) Phenanthrene            | 11.36 | 178  | 2146666  | 63.128 | ng    | 100        |
| 72) Anthracene              | 11.40 | 178  | 689801   | 20.391 | ng    | 97         |
| 73) Carbazole               | 11.55 | 167  | 166581   | 5.611  | ng    | 98         |
| 75) Fluoranthene            | 12.54 | 202  | 1767177  | 47.597 | ng    | 99         |
| 78) Pvrene                  | 12.77 | 202  | 1712634  | 53.995 | ng    | 99         |
| 81) Benzo(a)anthracene      | 13.96 | 228  | 786306m  | 28.580 | ng    |            |
| 83) Chrysene                | 13.99 | 228  | 699455   | 25.331 | ng    | 98         |
| 86) Indeno(1,2,3-cd)pyrene  | 16.86 | 276  | 514296   | 18.538 | ng    | 96         |
| 88) Benzo(b)fluoranthene    | 15.00 | 252  | 932578m  | 27.723 | ng    |            |
| 89) Benzo(k)fluoranthene    | 15.02 | 252  | 246628m  | 8.419  | ng    |            |
| 90) Benzo(a)pvrene          | 15.36 | 252  | 781230   | 27.137 | ng    | 98         |
| 91) Dibenzo(a,h)anthracene  | 16.86 | 278  | 140397m  | 5.494  | ng    |            |
| 92) Benzo(g,h,i)perylene    | 17.29 | 276  | 513864   | 20.907 | ng    | 99         |

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

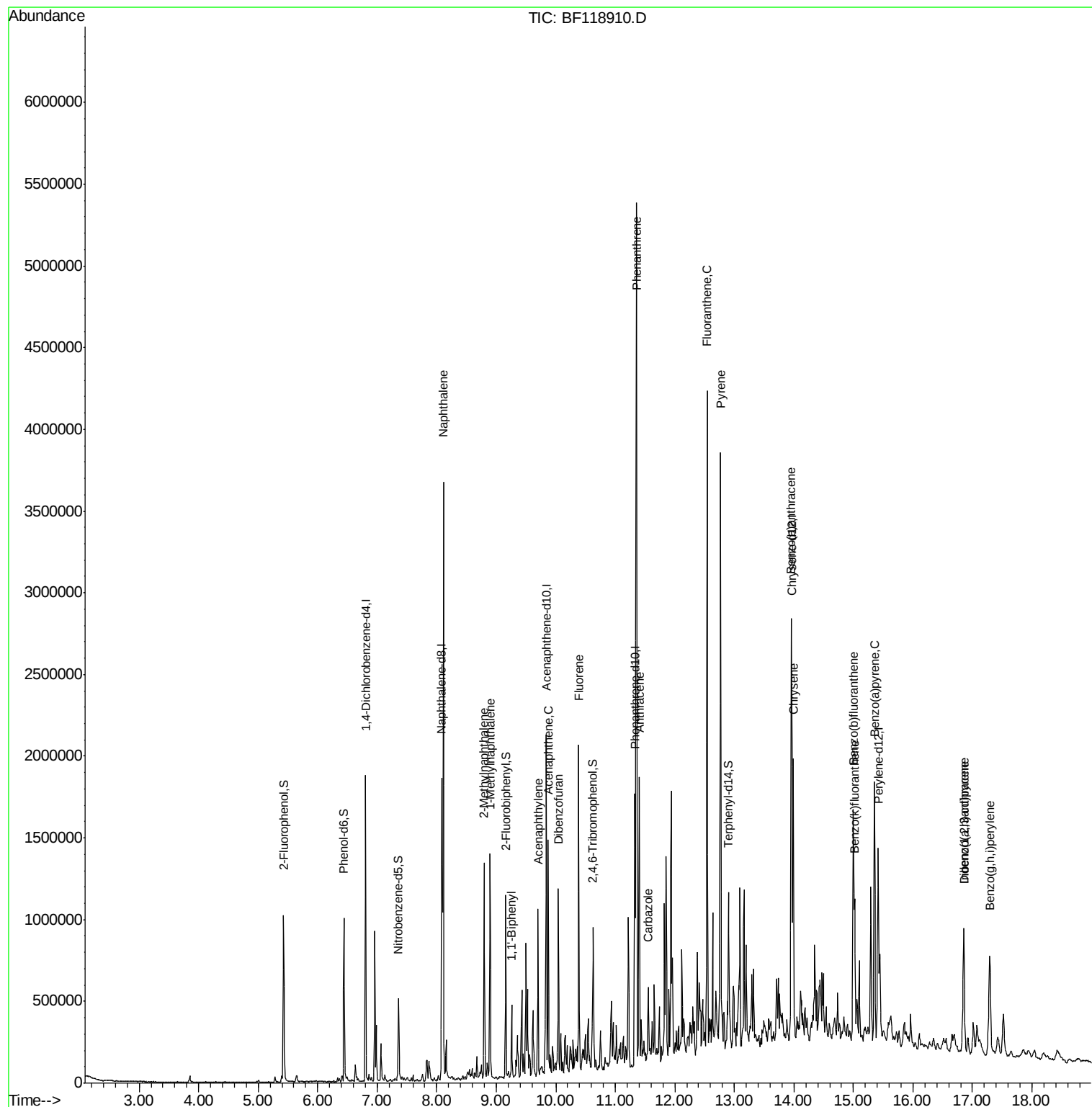
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF021220\  
Data File : BF118910.D  
Acq On : 12 Feb 2020 11:30  
Operator : CG/JU  
Sample : L1468-04DL 5X  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

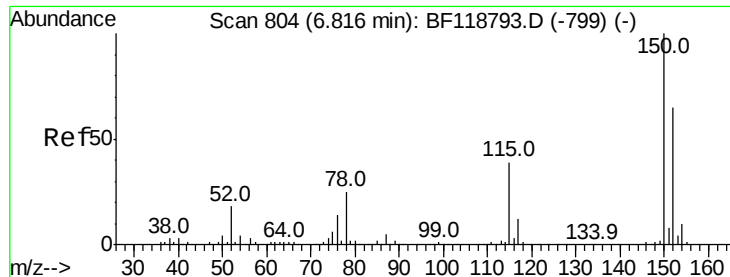
Instrument :  
BNA\_F  
ClientSampleId :  
TP10-EP2-3DL

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Quant Time: Feb 13 00:18:16 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF020320.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Feb 03 16:26:03 2020  
Response via : Initial Calibration





#1

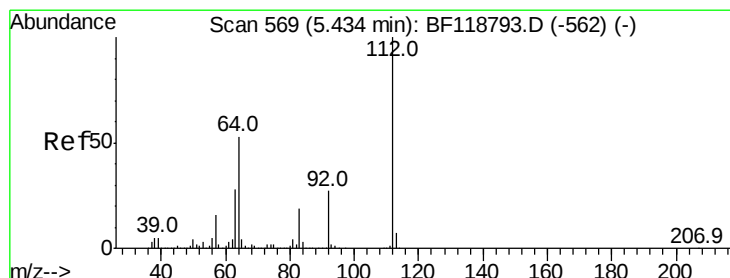
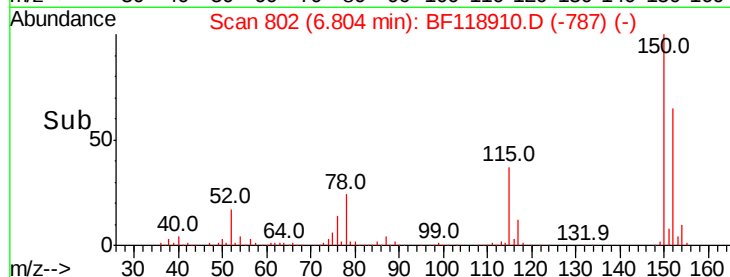
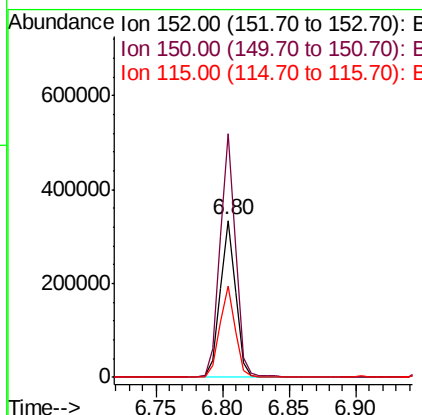
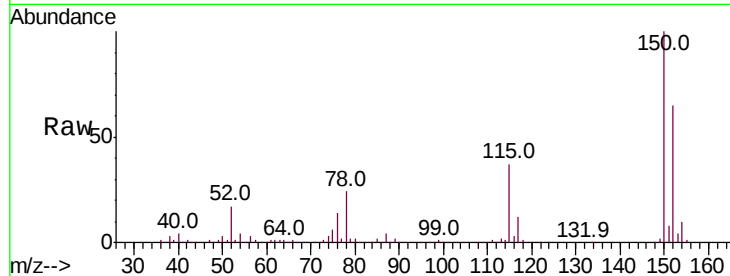
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.80 min Scan# 802  
Delta R.T. -0.01 min  
Lab File: BF118910.D  
Acq: 12 Feb 2020 11:30

Instrument :  
BNA\_F  
ClientSampleId :  
TP10-EP2-3DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 155.0 | 123.6 | 185.4 |
| 115     | 57.7  | 48.2  | 72.2  |

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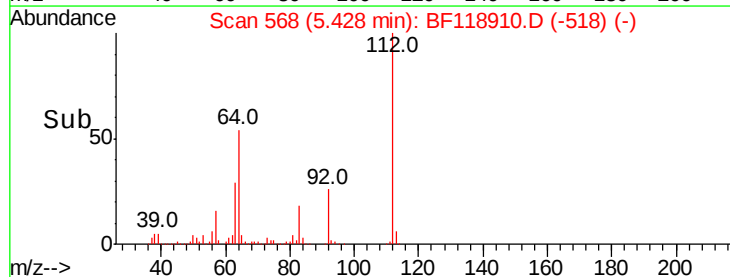
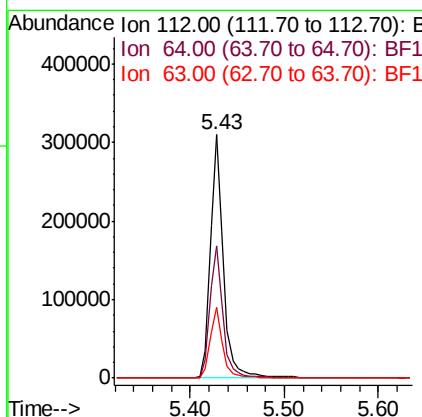
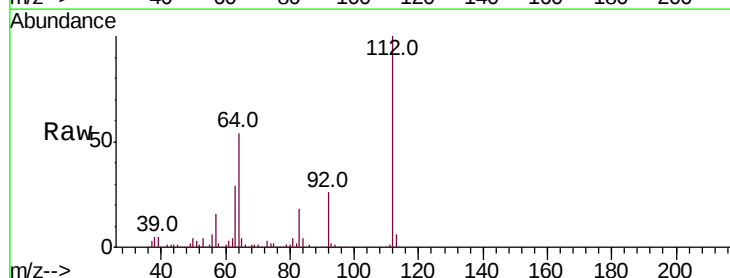
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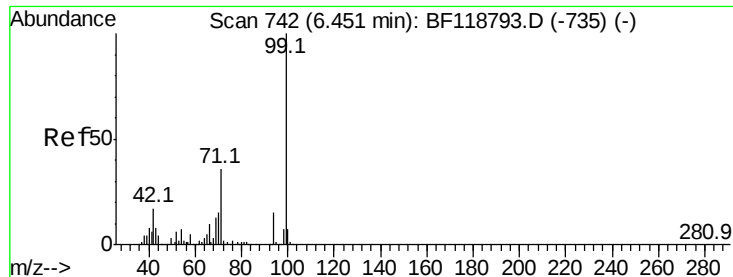


#5

2-Fluorophenol  
Concen: 20.772 ng  
RT: 5.43 min Scan# 568  
Delta R.T. -0.01 min  
Lab File: BF118910.D  
Acq: 12 Feb 2020 11:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 54.1  | 42.6  | 63.8  |
| 63      | 28.9  | 22.2  | 33.4  |





#7

Phenol-d6

Concen: 19.521 ng

RT: 6.44 min Scan# 740

Delta R.T. -0.01 min

Lab File: BF118910.D

Acq: 12 Feb 2020 11:30

Instrument :

BNA\_F

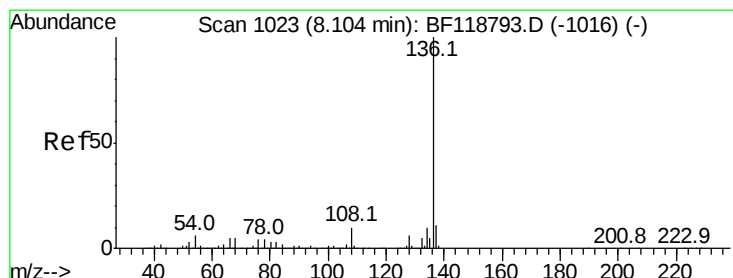
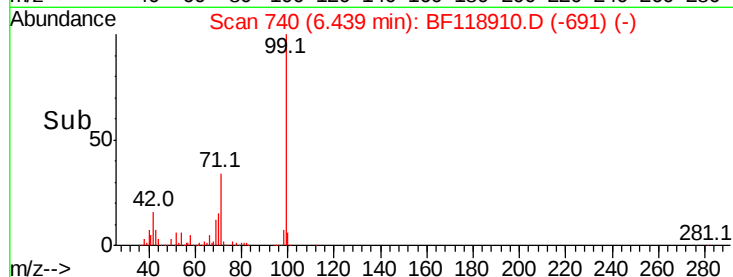
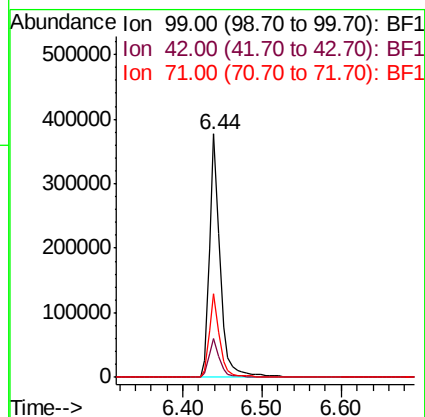
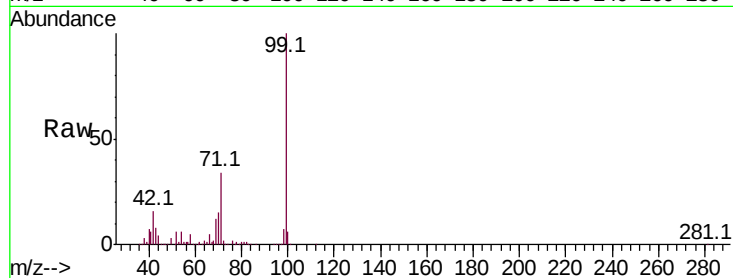
ClientSampleId :

TP10-EP2-3DL

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 99      | 100  |       | 355793 |       |       |
| 42      | 15.8 | 13.4  | 20.0   |       |       |
| 71      | 34.4 | 29.0  | 43.6   |       |       |

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#21

Naphthalene-d8

Concen: 20.000 ng

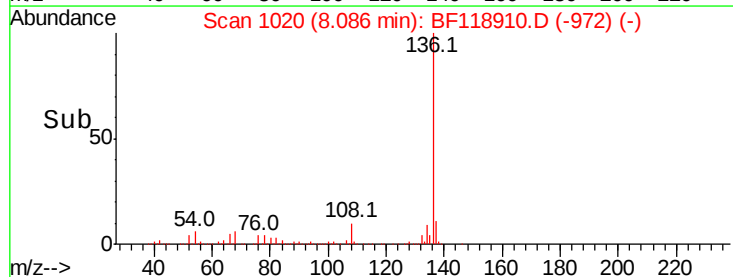
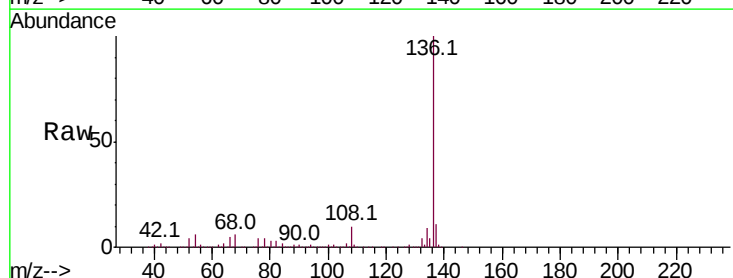
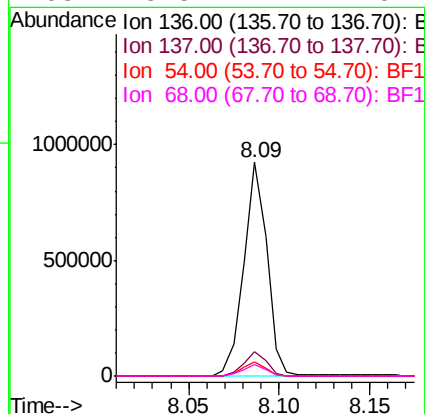
RT: 8.09 min Scan# 1020

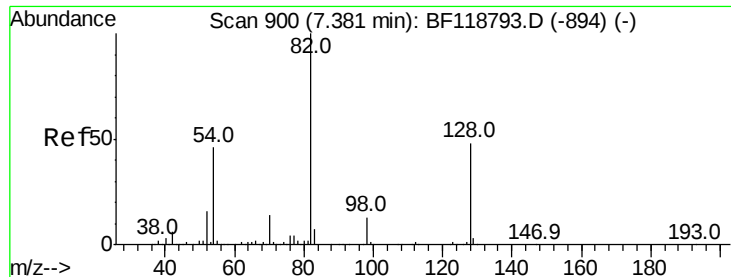
Delta R.T. -0.02 min

Lab File: BF118910.D

Acq: 12 Feb 2020 11:30

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 825214 |       |       |
| 137     | 11.5 | 8.7   | 13.1   |       |       |
| 54      | 6.4  | 5.0   | 7.6    |       |       |
| 68      | 5.5  | 4.2   | 6.4    |       |       |





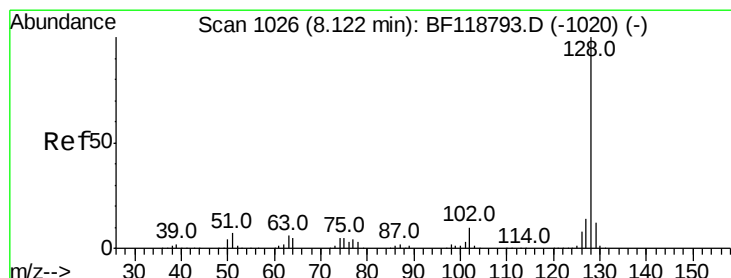
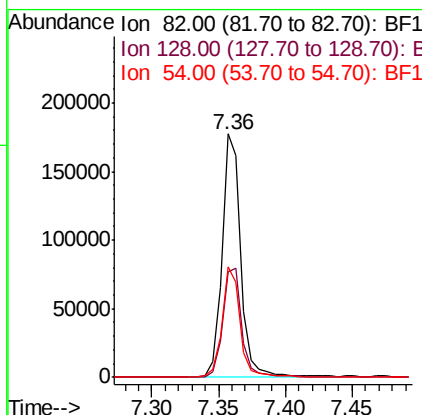
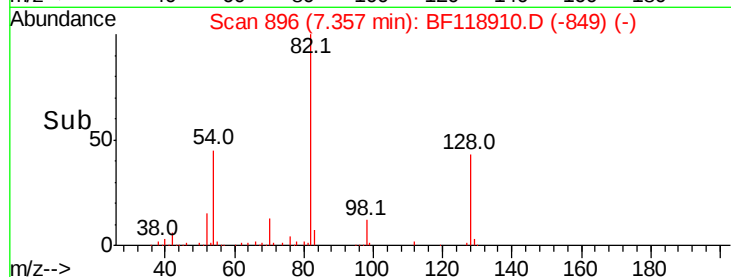
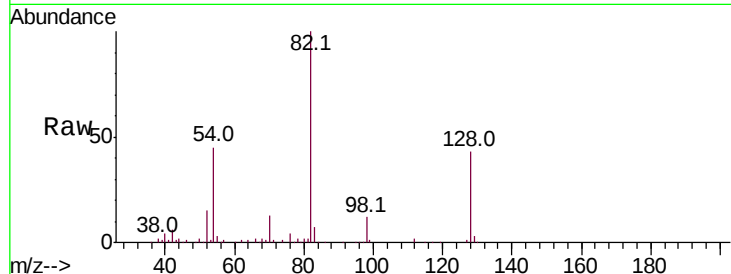
#23  
 Nitrobenzene-d5  
 Concen: 12.775 ng  
 RT: 7.36 min Scan# 896  
 Delta R.T. -0.02 min  
 Lab File: BF118910.D  
 Acq: 12 Feb 2020 11:30

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP10-EP2-3DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 43.3  | 38.5  | 57.7  |
| 54      | 45.3  | 36.7  | 55.1  |

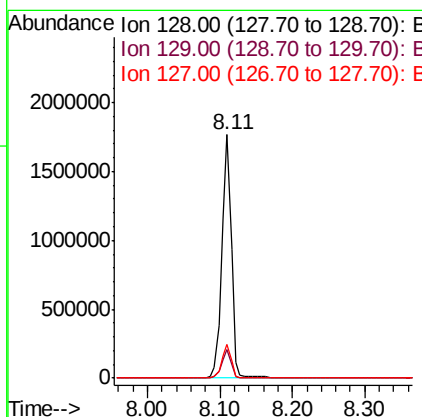
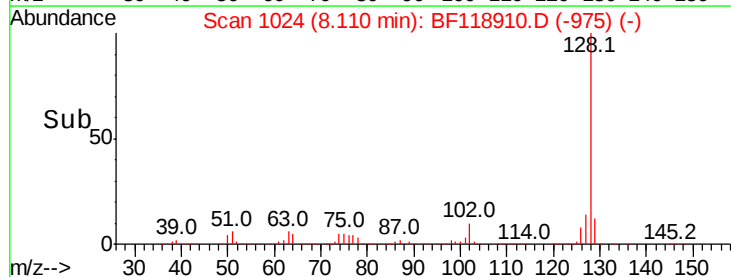
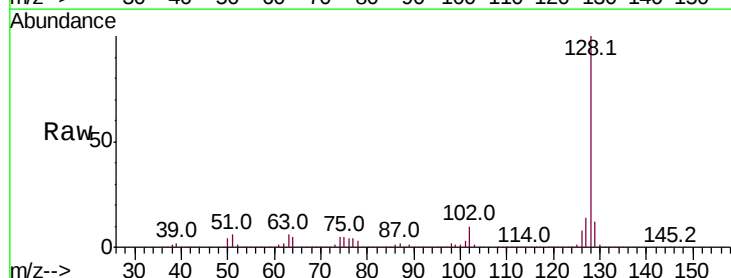
Manual Integrations  
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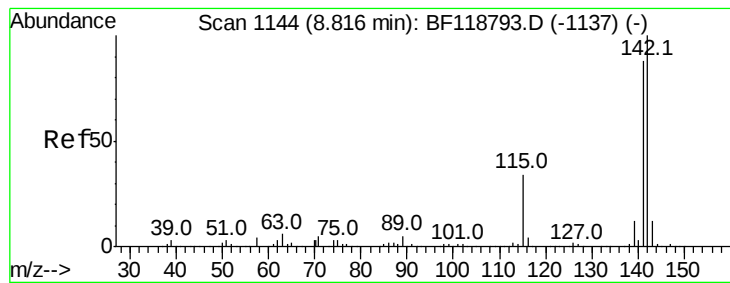
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#31  
 Naphthalene  
 Concen: 42.700 ng  
 RT: 8.11 min Scan# 1024  
 Delta R.T. -0.01 min  
 Lab File: BF118910.D  
 Acq: 12 Feb 2020 11:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.7  | 9.4   | 14.2  |
| 127     | 13.9  | 11.3  | 16.9  |





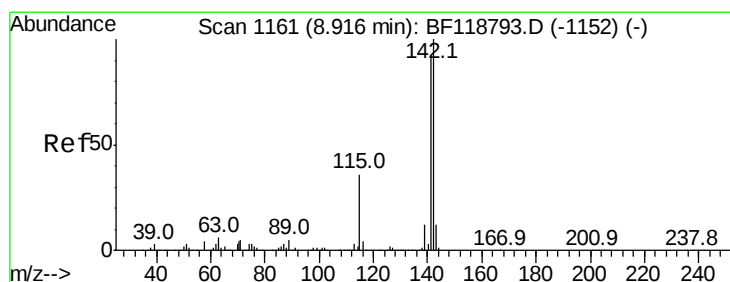
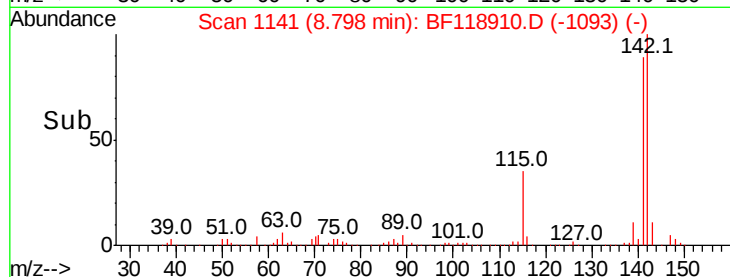
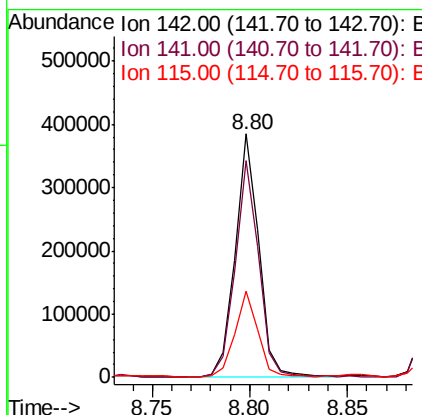
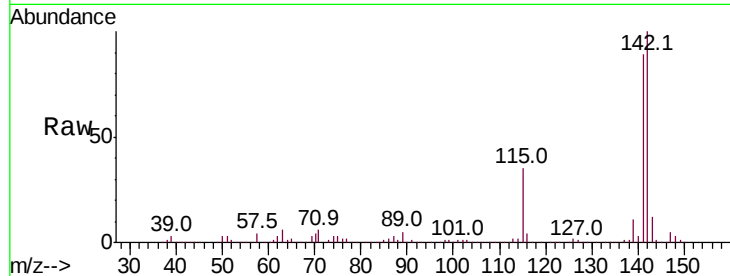
#37  
2-Methylnaphthalene  
Concen: 12.370 ng  
RT: 8.80 min Scan# 1141  
Delta R.T. -0.02 min  
Lab File: BF118910.D  
Acq: 12 Feb 2020 11:30

Instrument :  
BNA\_F  
ClientSampleId :  
TP10-EP2-3DL

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 142     | 100   | 323792 |       |       |
| 141     | 89.3  | 70.1   | 105.1 |       |
| 115     | 35.4  | 27.3   | 40.9  |       |

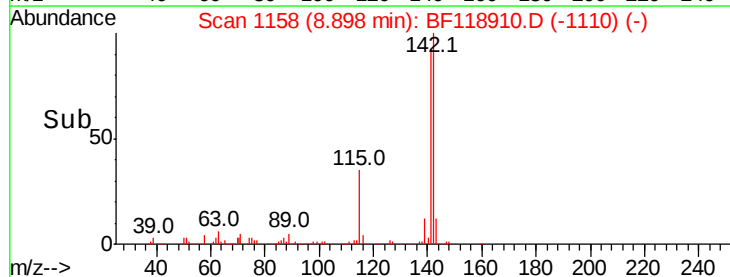
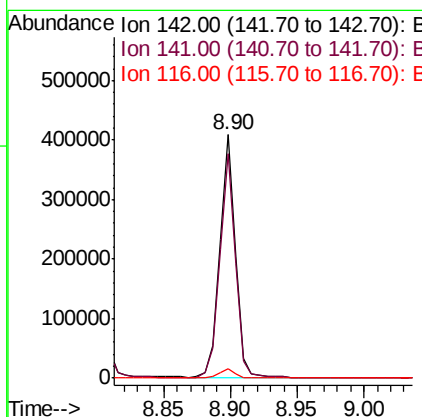
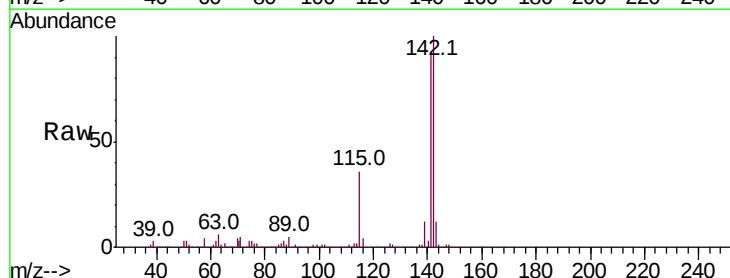
Manual Integrations  
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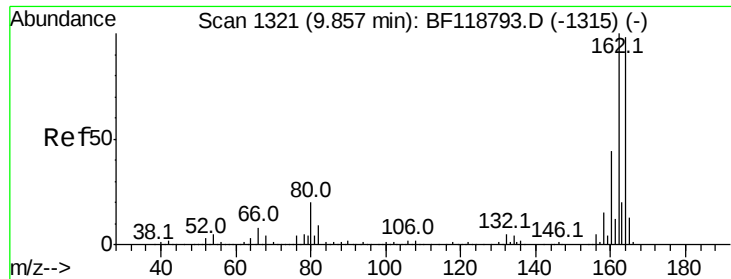
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#38  
1-Methylnaphthalene  
Concen: 13.826 ng  
RT: 8.90 min Scan# 1158  
Delta R.T. -0.02 min  
Lab File: BF118910.D  
Acq: 12 Feb 2020 11:30

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 142     | 100   | 340457 |       |       |
| 141     | 92.1  | 73.8   | 110.6 |       |
| 116     | 3.9   | 3.0    | 4.4   |       |





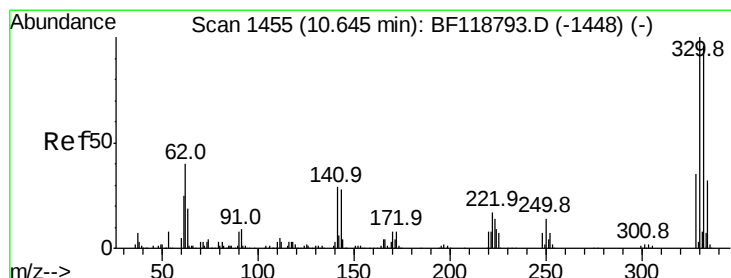
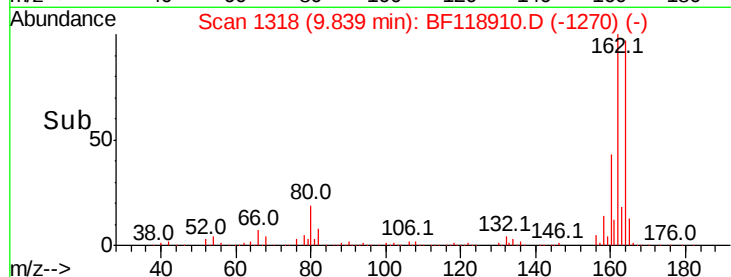
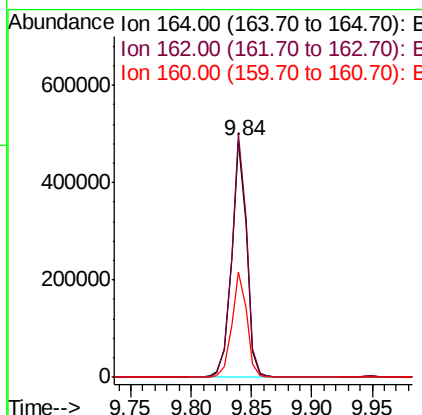
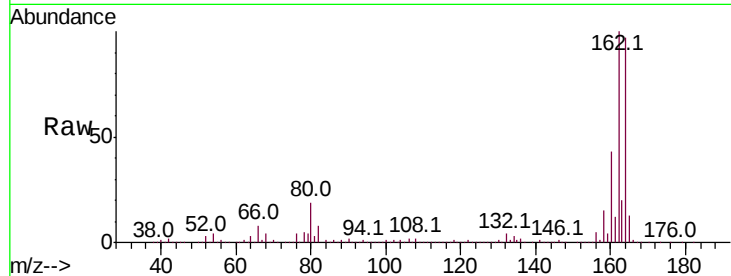
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Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.84 min Scan# 1318  
Delta R.T. -0.02 min  
Lab File: BF118910.D  
Acq: 12 Feb 2020 11:30

Instrument :  
BNA\_F  
ClientSampleId :  
TP10-EP2-3DL

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 103.1 | 81.4 | 122.2 |       |
| 160     | 44.5  | 35.6 | 53.4  |       |

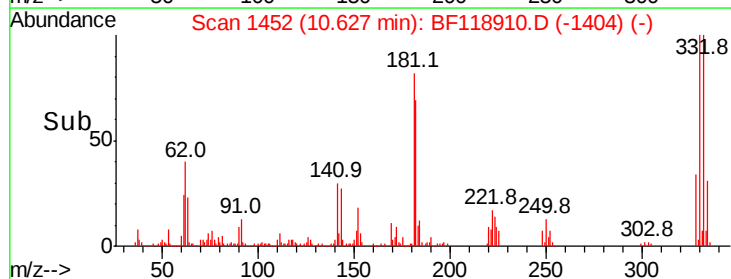
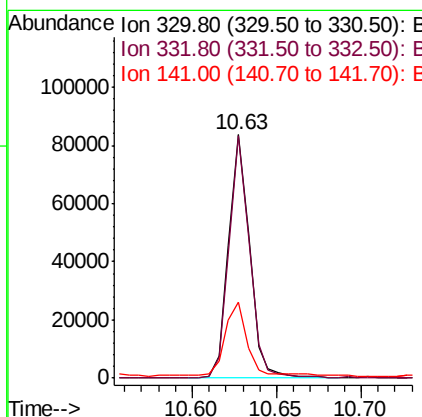
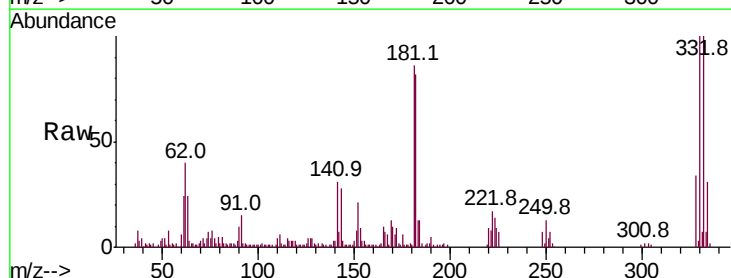
Manual Integrations  
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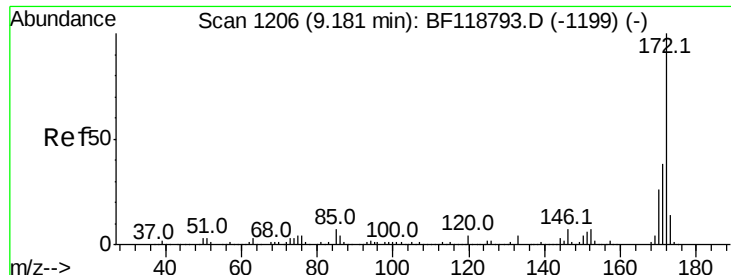
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#42  
2,4,6-Tribromophenol  
Concen: 14.460 ng  
RT: 10.63 min Scan# 1452  
Delta R.T. -0.02 min  
Lab File: BF118910.D  
Acq: 12 Feb 2020 11:30

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 97.4  | 77.3 | 115.9 |       |
| 141     | 30.3  | 22.4 | 33.6  |       |





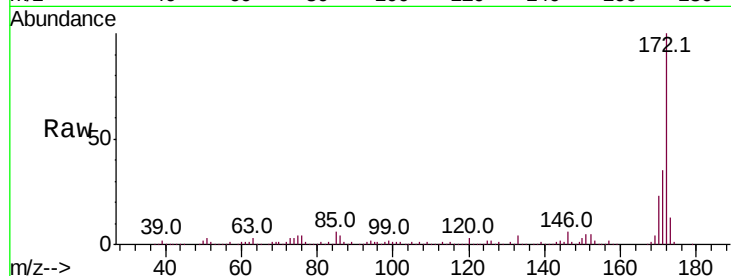
#45  
2-Fluorobiphenyl  
Concen: 14.129 ng  
RT: 9.16 min Scan# 1202  
Delta R.T. -0.02 min  
Lab File: BF118910.D  
Acq: 12 Feb 2020 11:30

Instrument :  
BNA\_F  
ClientSampleId :  
TP10-EP2-3DL

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 172     | 100   | 332208 |       |       |
| 171     | 34.9  |        | 30.8  | 46.2  |
| 170     | 22.6  |        | 20.5  | 30.7  |

Manual Integrations  
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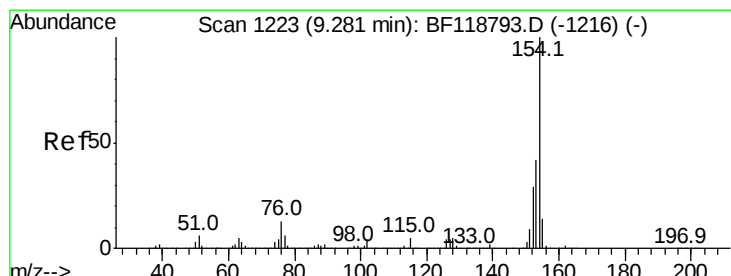
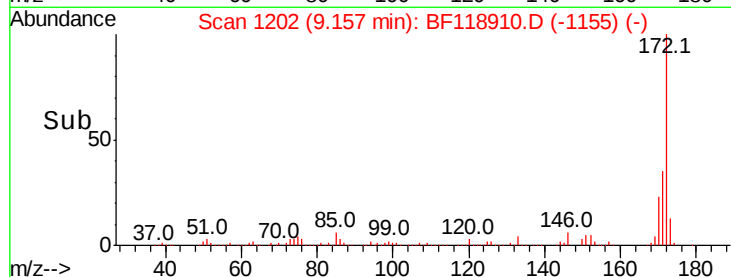
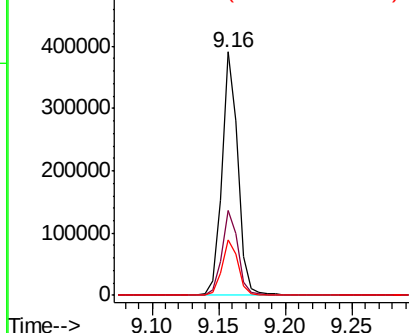


Abundance

Ion 172.00 (171.70 to 172.70): E

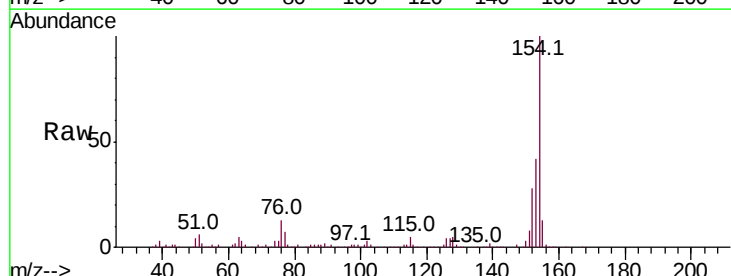
Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#46  
1,1'-Biphenyl  
Concen: 4.963 ng  
RT: 9.26 min Scan# 1219  
Delta R.T. -0.02 min  
Lab File: BF118910.D  
Acq: 12 Feb 2020 11:30

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 154     | 100   | 144296 |       |       |
| 153     | 41.6  |        | 22.4  | 62.4  |
| 76      | 12.6  |        | 0.0   | 32.7  |

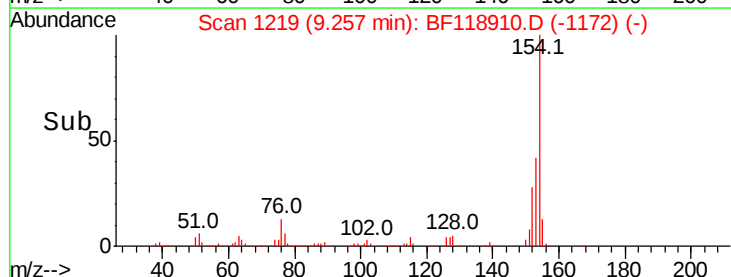
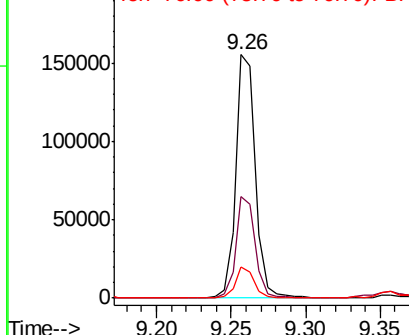


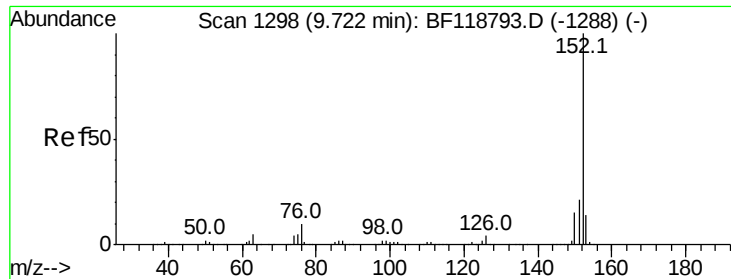
Abundance

Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 76.00 (75.70 to 76.70): BF1





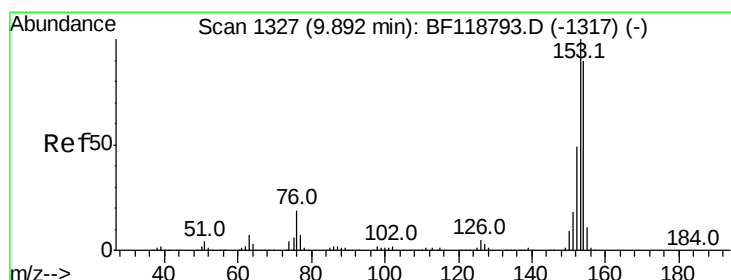
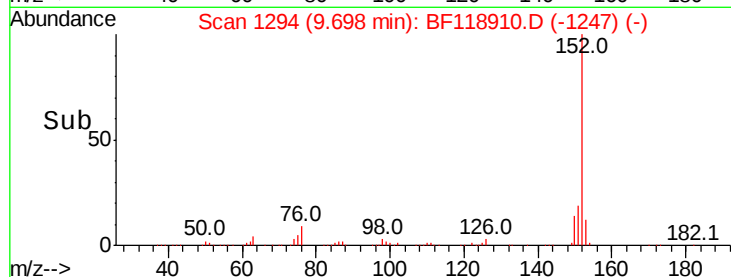
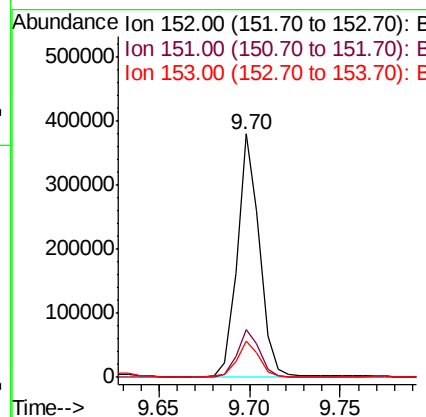
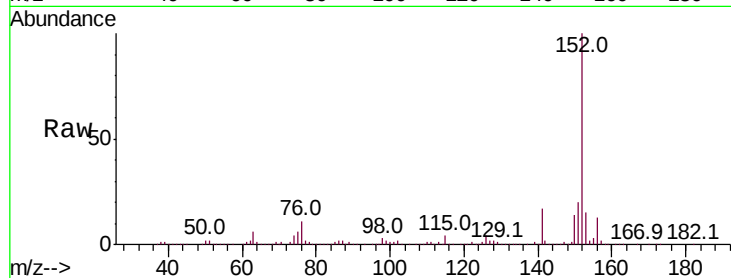
#49  
Acenaphthylene  
Concen: 9.287 ng  
RT: 9.70 min Scan# 1294  
Delta R.T. -0.02 min  
Lab File: BF118910.D  
Acq: 12 Feb 2020 11:30

Instrument :  
BNA\_F  
ClientSampleId :  
TP10-EP2-3DL

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 324131 |       |       |
| 151     | 19.8  |        | 17.1  | 25.7  |
| 153     | 14.9  |        | 11.0  | 16.4  |

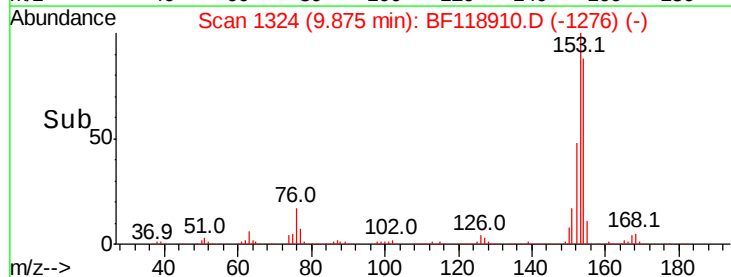
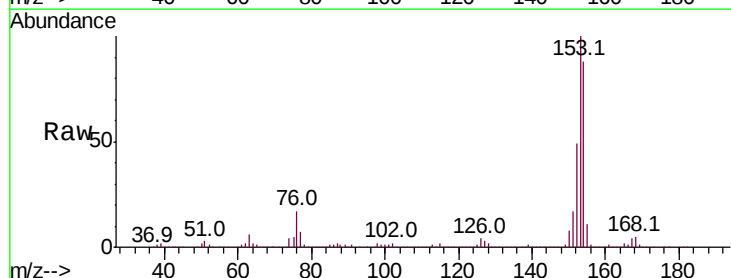
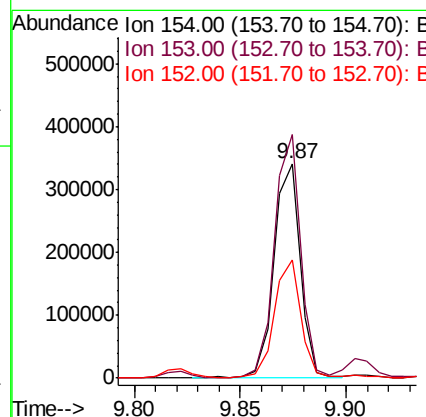
Manual Integrations  
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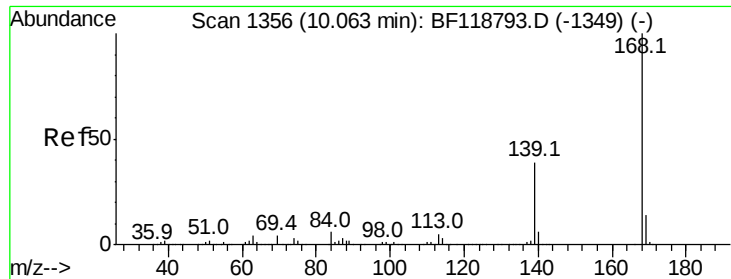
mohammad  
2/13/2020 3:34:16 PM



#52  
Acenaphthene  
Concen: 12.774 ng  
RT: 9.87 min Scan# 1324  
Delta R.T. -0.02 min  
Lab File: BF118910.D  
Acq: 12 Feb 2020 11:30

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 154     | 100   | 293791 |       |       |
| 153     | 113.4 |        | 89.4  | 134.0 |
| 152     | 55.0  |        | 43.6  | 65.4  |





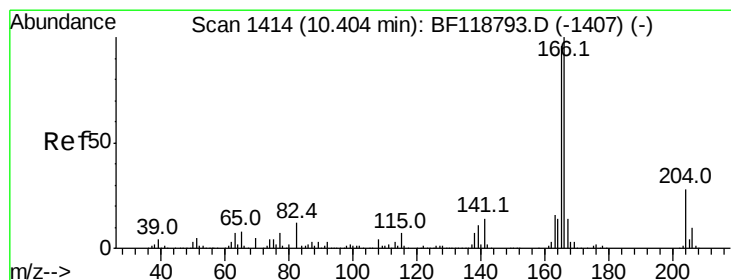
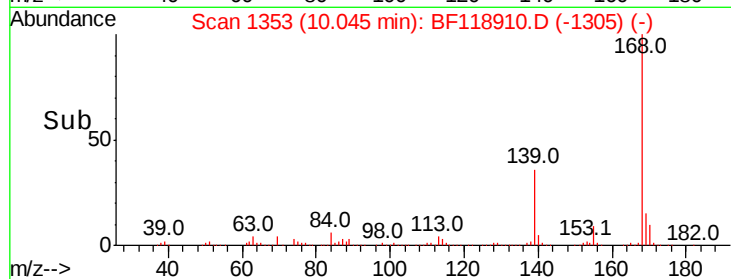
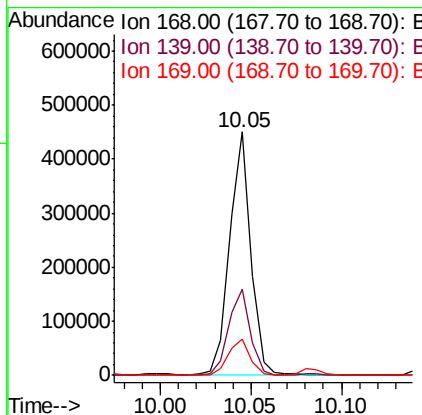
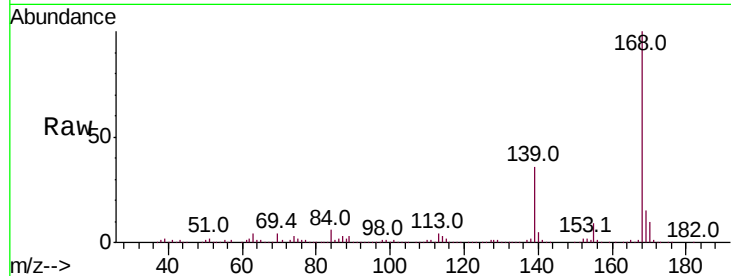
#55  
Dibenzenofuran  
Concen: 11.036 ng  
RT: 10.05 min Scan# 1353  
Delta R.T. -0.02 min  
Lab File: BF118910.D  
Acq: 12 Feb 2020 11:30

Instrument :  
BNA\_F  
ClientSampleId :  
TP10-EP2-3DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 168     | 100   |       |       |
| 139     | 35.5  | 31.6  | 47.4  |
| 169     | 14.9  | 11.4  | 17.2  |

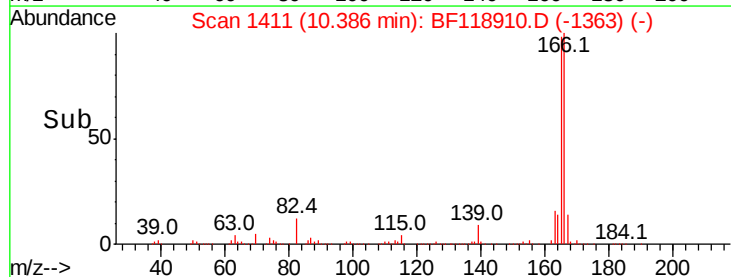
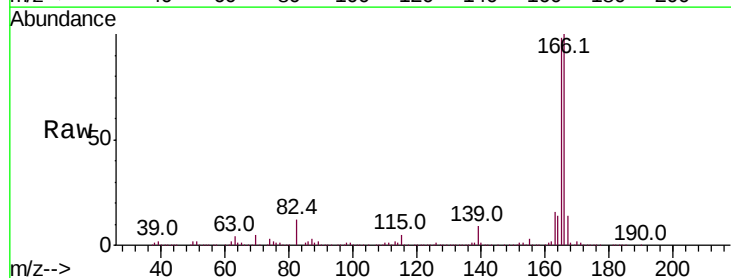
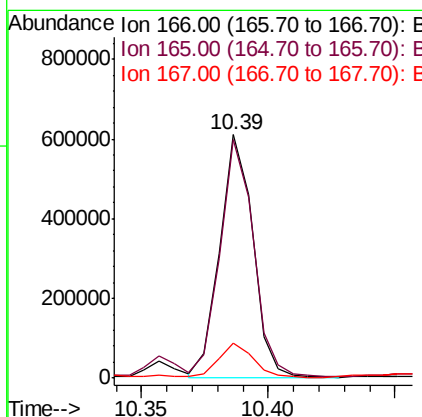
Manual Integrations  
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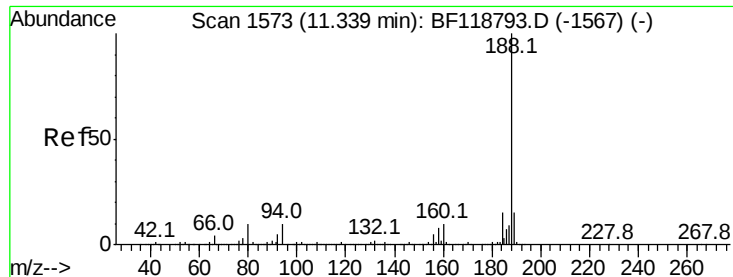
mohammad  
2/13/2020 3:34:16 PM



#58  
Fluorene  
Concen: 22.088 ng  
RT: 10.39 min Scan# 1411  
Delta R.T. -0.02 min  
Lab File: BF118910.D  
Acq: 12 Feb 2020 11:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 98.0  | 77.0  | 115.6 |
| 167     | 14.5  | 11.1  | 16.7  |





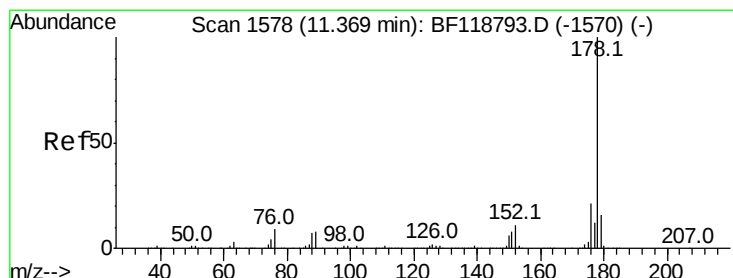
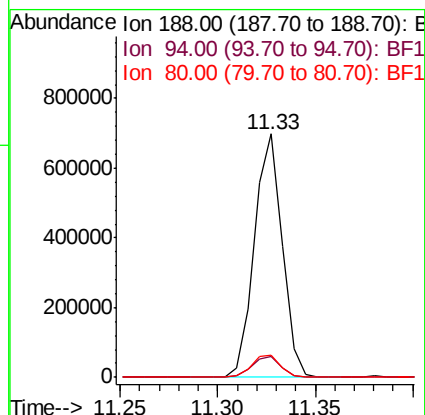
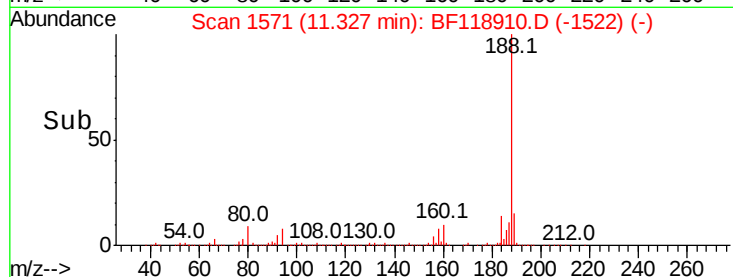
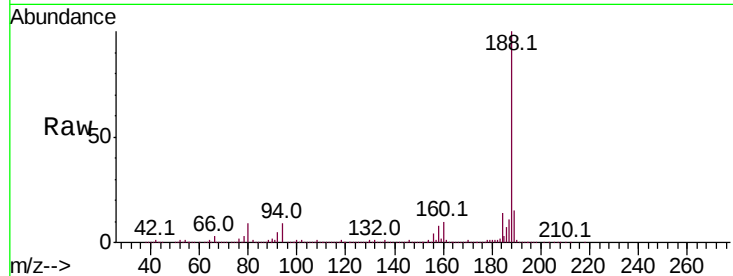
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.33 min Scan# 1571  
Delta R.T. -0.01 min  
Lab File: BF118910.D  
Acq: 12 Feb 2020 11:30

Instrument :  
BNA\_F  
ClientSampleId :  
TP10-EP2-3DL

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 188     | 100   | 691141 |       |       |
| 94      | 8.5   | 7.9    | 11.9  |       |
| 80      | 9.0   | 8.4    | 12.6  |       |

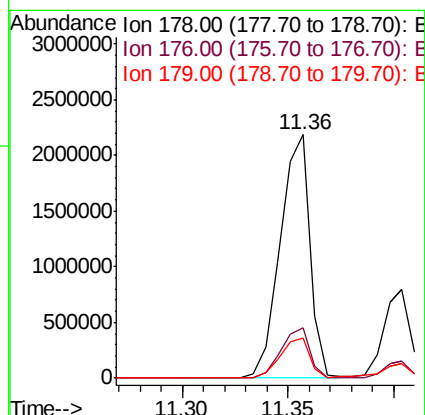
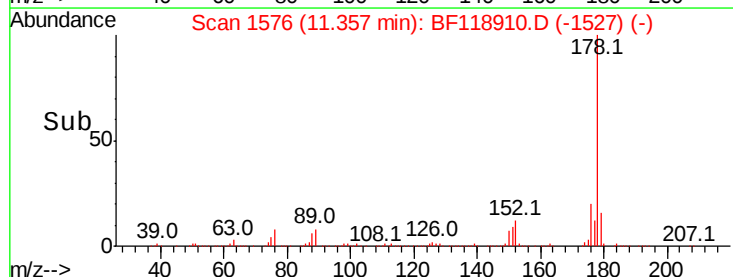
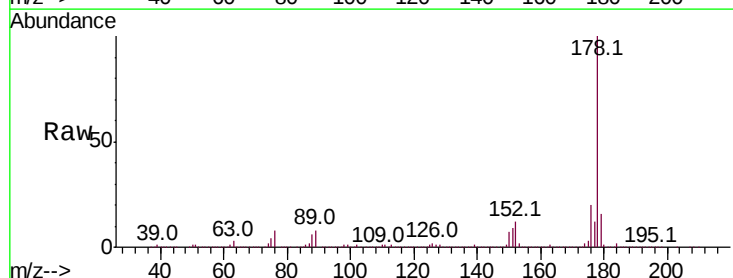
Manual Integrations  
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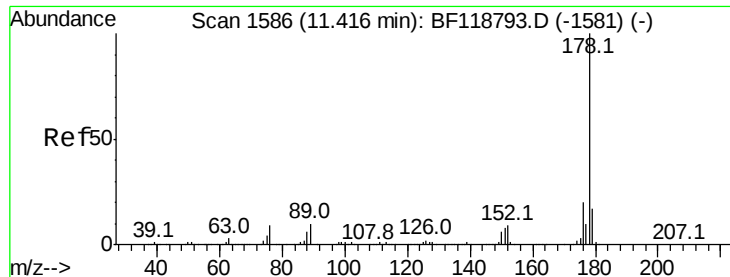
mohammad  
2/13/2020 3:34:16 PM



#71  
Phenanthrene  
Concen: 63.128 ng  
RT: 11.36 min Scan# 1576  
Delta R.T. -0.01 min  
Lab File: BF118910.D  
Acq: 12 Feb 2020 11:30

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 178     | 100   | 2146666 |       |       |
| 176     | 20.5  | 16.6    | 24.8  |       |
| 179     | 16.3  | 13.2    | 19.8  |       |





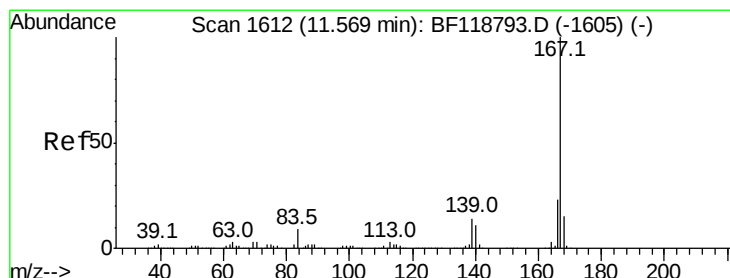
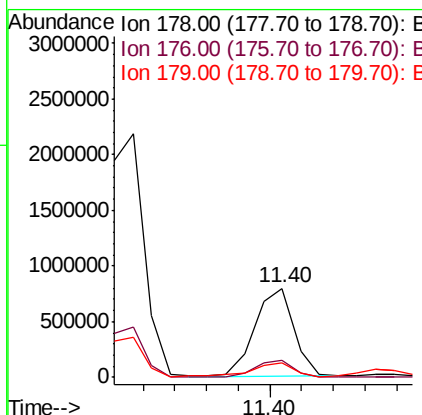
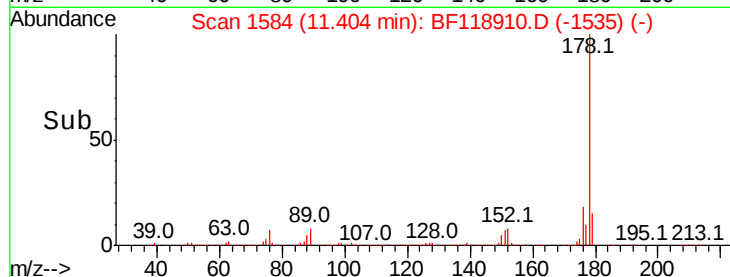
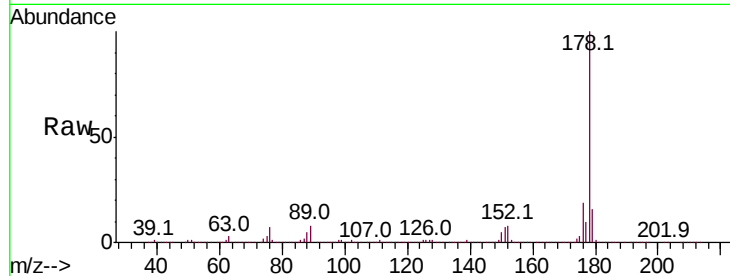
#72  
 Anthracene  
 Concen: 20.391 ng  
 RT: 11.40 min Scan# 1584  
 Delta R.T. -0.01 min  
 Lab File: BF118910.D  
 Acq: 12 Feb 2020 11:30

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP10-EP2-3DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.6  | 16.2  | 24.2  |
| 179     | 15.6  | 13.4  | 20.2  |

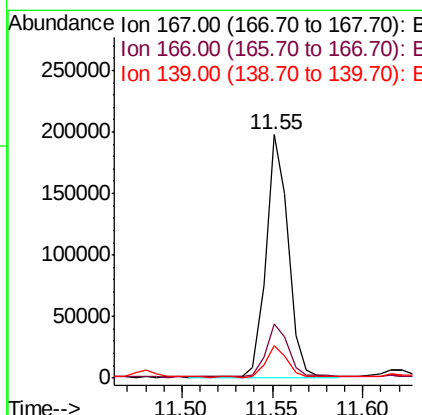
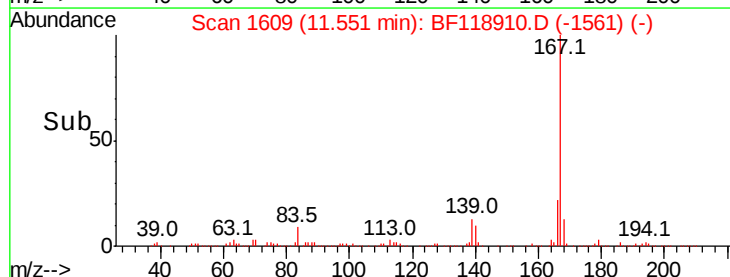
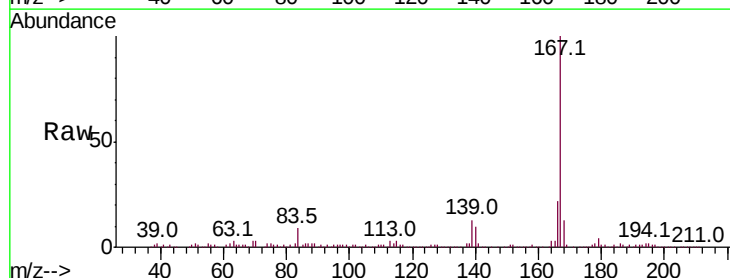
Manual Integrations  
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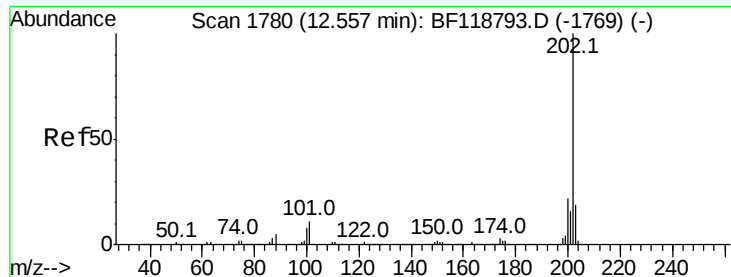
mohammad  
 2/13/2020 3:34:16 PM



#73  
 Carbazole  
 Concen: 5.611 ng  
 RT: 11.55 min Scan# 1609  
 Delta R.T. -0.02 min  
 Lab File: BF118910.D  
 Acq: 12 Feb 2020 11:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 22.4  | 18.4  | 27.6  |
| 139     | 13.1  | 11.1  | 16.7  |





#75

Fluoranthene

Concen: 47.597 ng

RT: 12.54 min Scan# 1778

Delta R.T. -0.01 min

Lab File: BF118910.D

Acq: 12 Feb 2020 11:30

Instrument :

BNA\_F

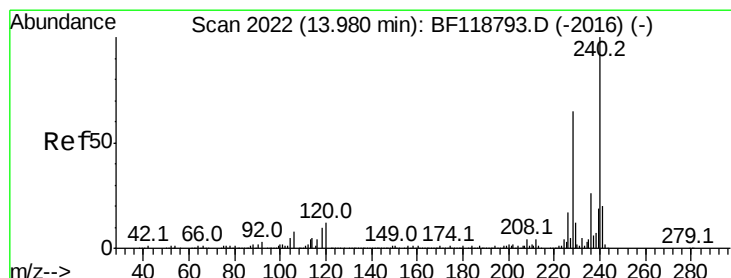
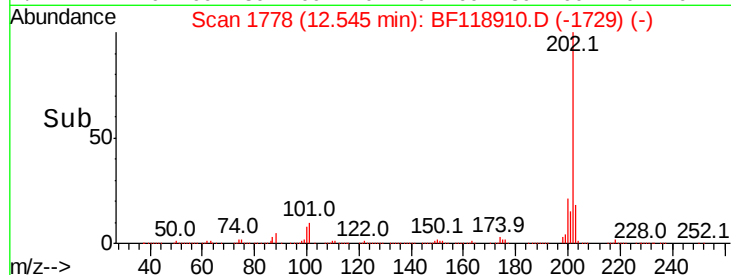
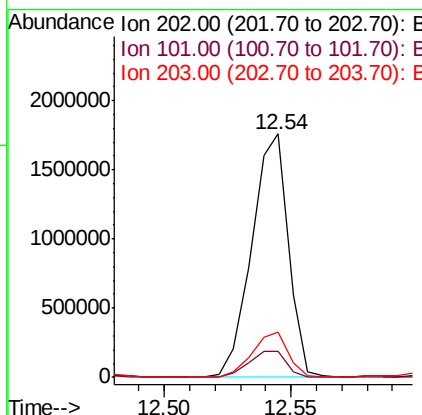
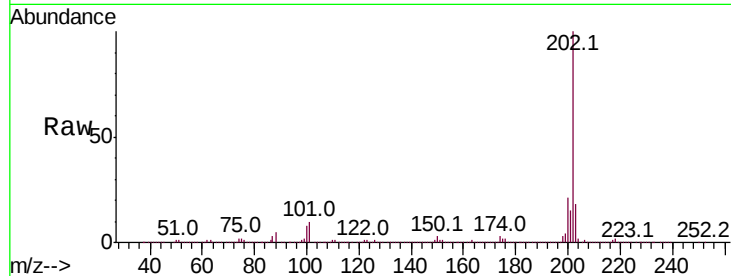
ClientSampleId :

TP10-EP2-3DL

|           |       |       |         |
|-----------|-------|-------|---------|
| Tot Ion:  | 202   | Resp: | 1767177 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 10.5  | 0.0   | 31.0    |
| 203       | 18.3  | 0.0   | 38.7    |

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#76

Chrysene-d12

Concen: 20.000 ng

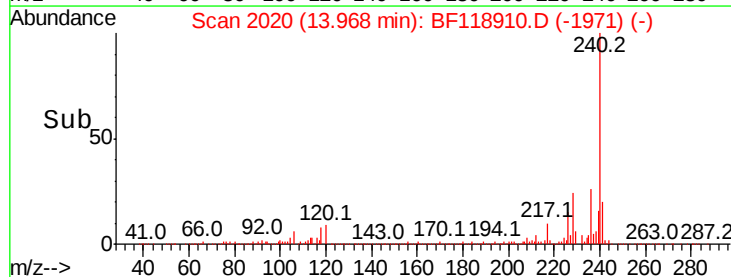
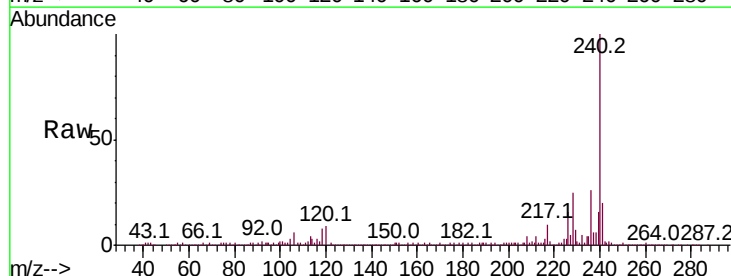
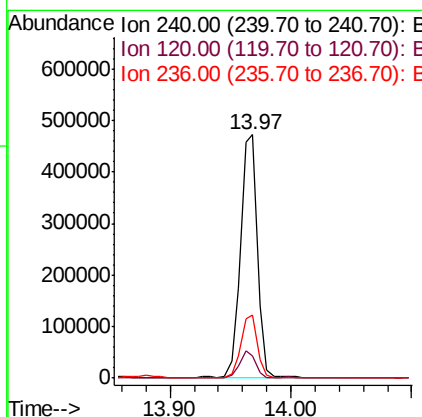
RT: 13.97 min Scan# 2020

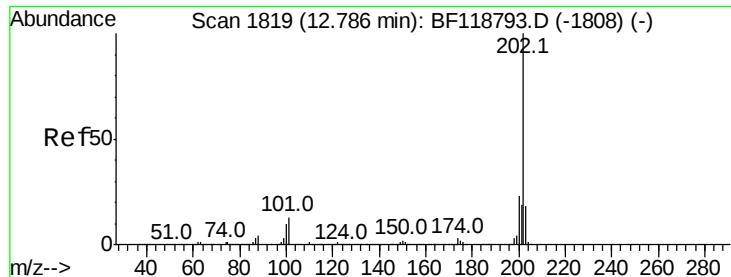
Delta R.T. -0.01 min

Lab File: BF118910.D

Acq: 12 Feb 2020 11:30

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 240   | Resp: | 462348 |
| Ion Ratio | Lower | Upper |        |
| 240       | 100   |       |        |
| 120       | 8.9   | 9.4   | 14.0#  |
| 236       | 25.9  | 21.0  | 31.6   |





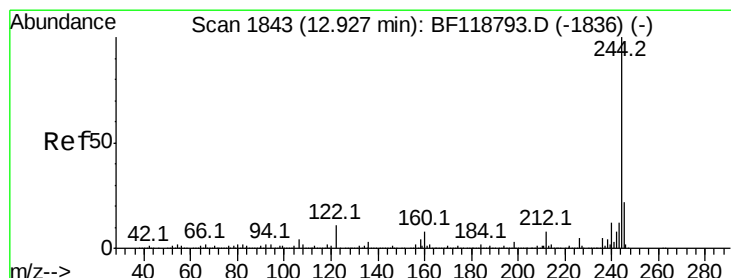
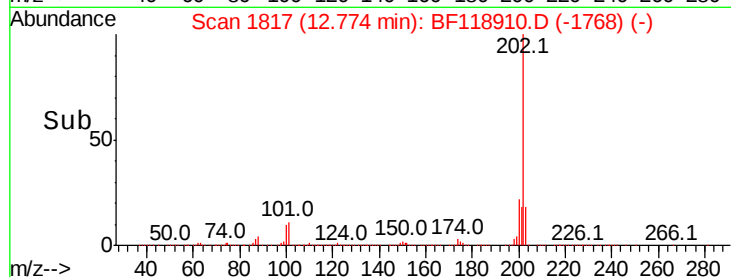
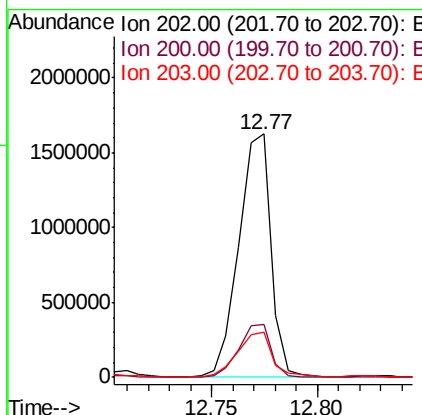
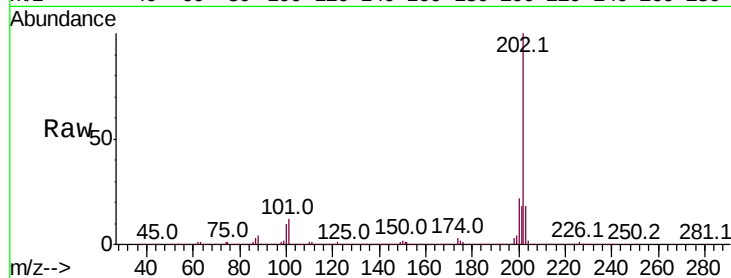
#78  
Pvrene  
Concen: 53.995 ng  
RT: 12.77 min Scan# 1817  
Delta R.T. -0.01 min  
Lab File: BF118910.D  
Acq: 12 Feb 2020 11:30

Instrument :  
BNA\_F  
ClientSampleId :  
TP10-EP2-3DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.9  | 18.2  | 27.2  |
| 203     | 18.3  | 14.8  | 22.2  |

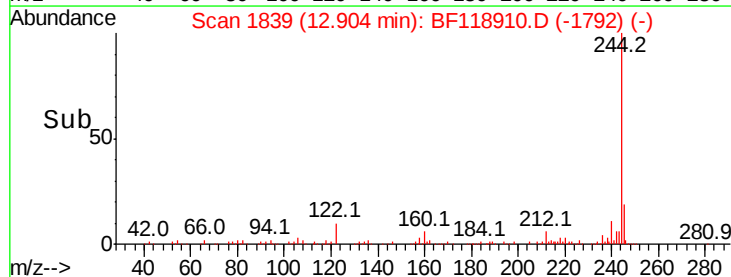
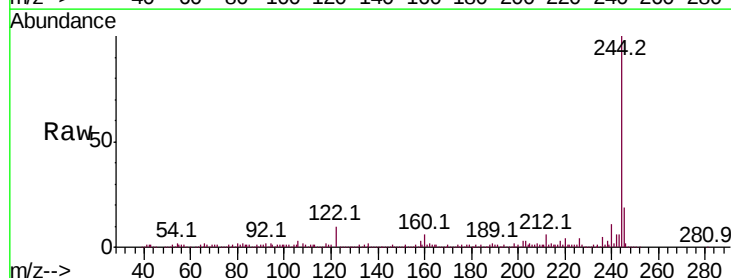
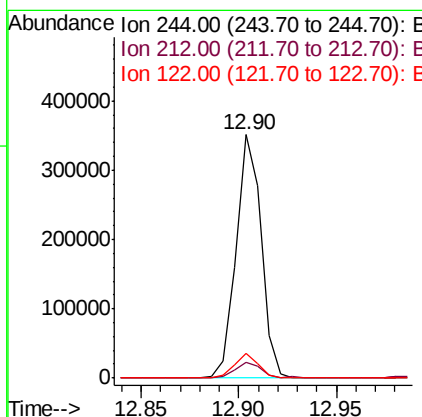
Manual Integrations  
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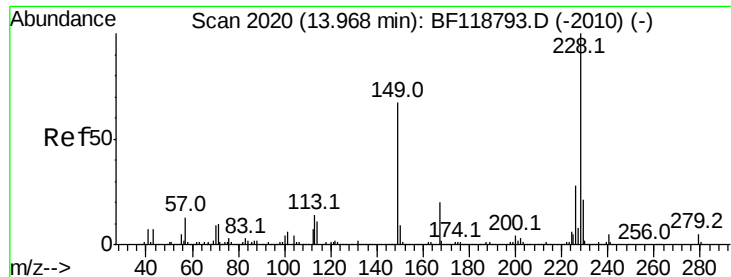
mohammad  
2/13/2020 3:34:16 PM



#79  
Terphenyl-d14  
Concen: 13.894 ng  
RT: 12.90 min Scan# 1839  
Delta R.T. -0.02 min  
Lab File: BF118910.D  
Acq: 12 Feb 2020 11:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 6.4   | 6.5   | 9.7#  |
| 122     | 10.3  | 8.9   | 13.3  |





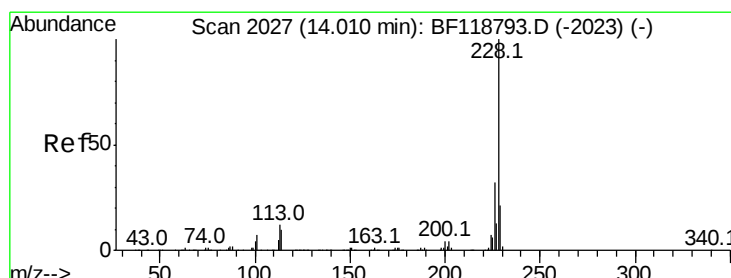
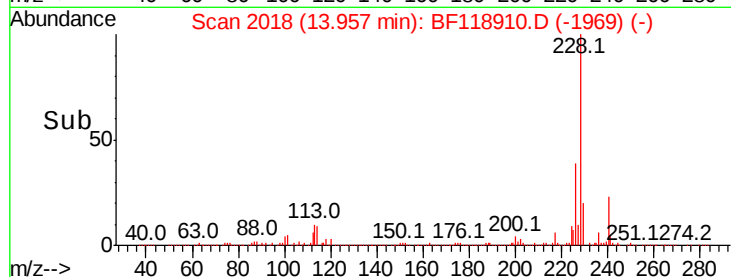
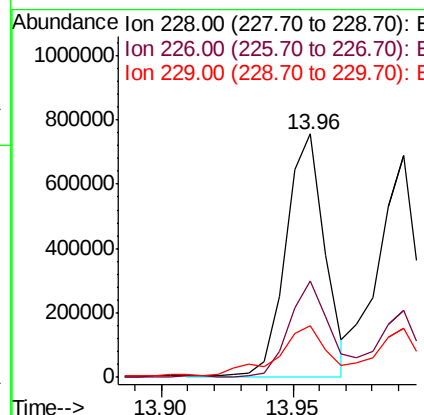
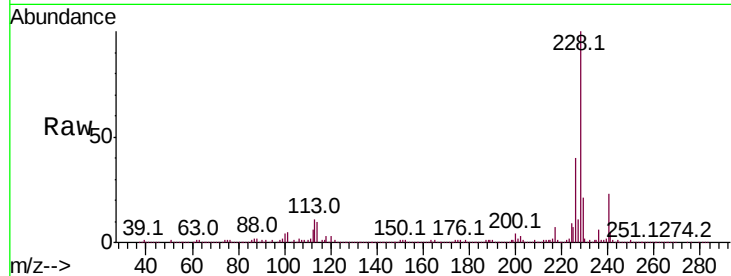
#81  
Benzo(a)anthracene  
Concen: 28.580 ng m  
RT: 13.96 min Scan# 2018  
Delta R.T. -0.01 min  
Lab File: BF118910.D  
Acq: 12 Feb 2020 11:30

Instrument :  
BNA\_F  
ClientSampleId :  
TP10-EP2-3DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 39.9  | 22.7  | 34.1# |
| 229     | 21.2  | 16.6  | 25.0  |

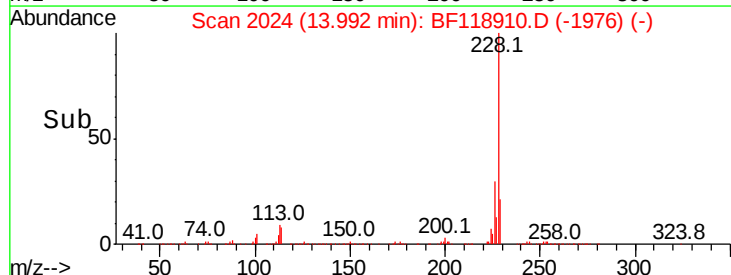
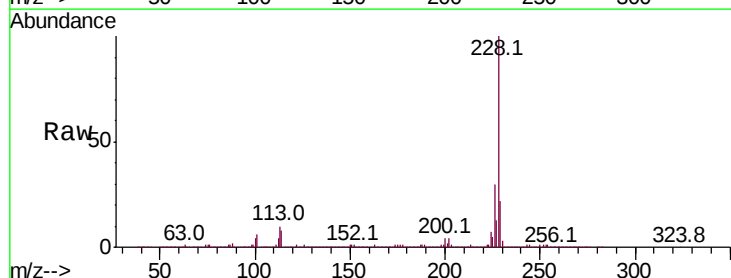
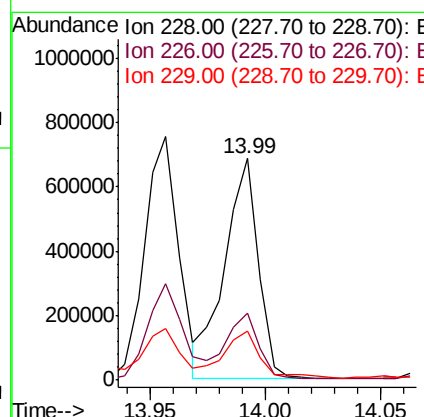
Manual Integrations  
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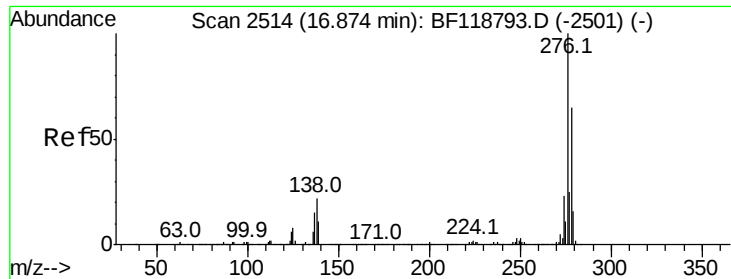
mohammad  
2/13/2020 3:34:16 PM



#83  
Chrysene  
Concen: 25.331 ng  
RT: 13.99 min Scan# 2024  
Delta R.T. -0.02 min  
Lab File: BF118910.D  
Acq: 12 Feb 2020 11:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.1  | 25.4  | 38.0  |
| 229     | 22.0  | 16.9  | 25.3  |





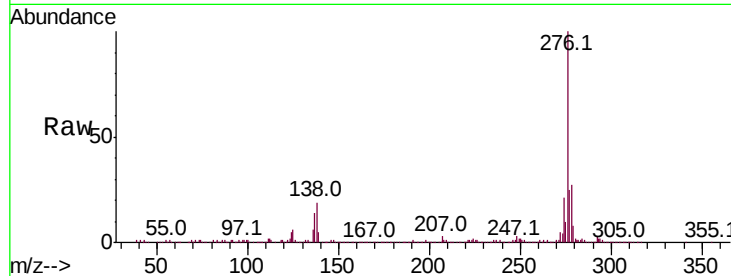
#86  
Indeno(1,2,3-cd)pyrene  
Concen: 18.538 ng  
RT: 16.86 min Scan# 2511  
Delta R.T. -0.02 min  
Lab File: BF118910.D  
Acq: 12 Feb 2020 11:30

Instrument :  
BNA\_F  
ClientSampleId :  
TP10-EP2-3DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 19.0  | 18.3  | 27.5  |
| 277     | 24.9  | 20.2  | 30.4  |

Manual Integrations  
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2/13/2020 3:34:16 PM

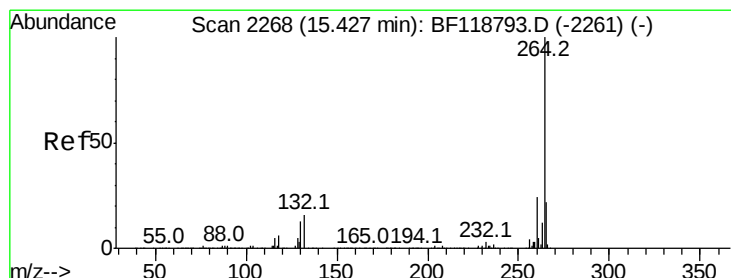
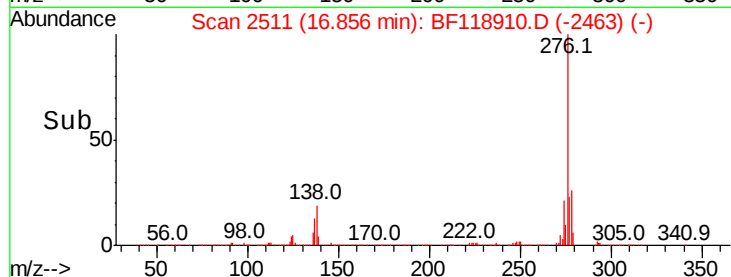
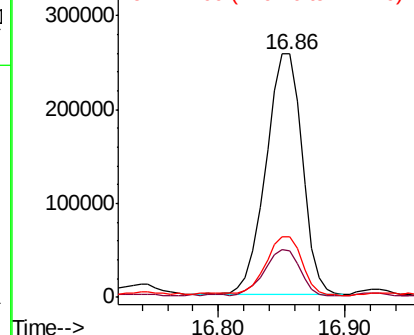


Abundance

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: 15.42 min Scan# 2266  
Delta R.T. -0.01 min  
Lab File: BF118910.D  
Acq: 12 Feb 2020 11:30

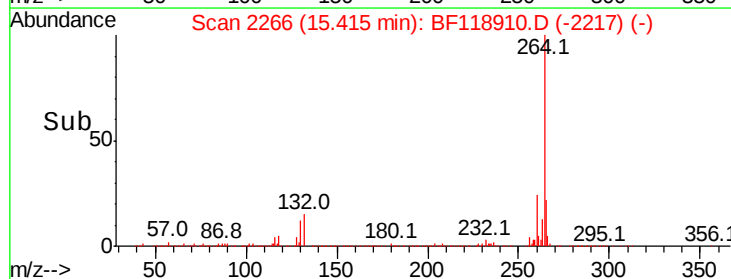
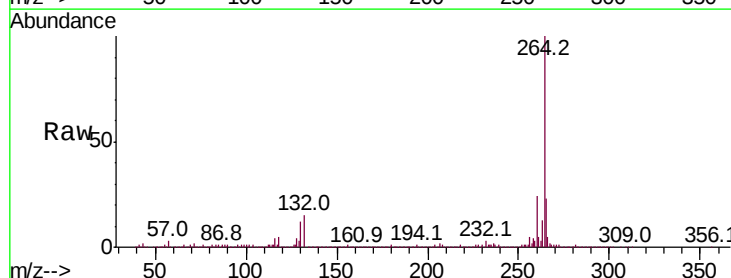
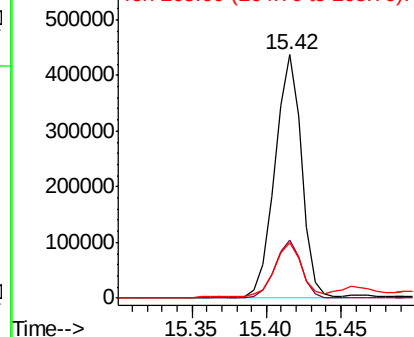
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.9  | 19.1  | 28.7  |
| 265     | 22.6  | 17.2  | 25.8  |

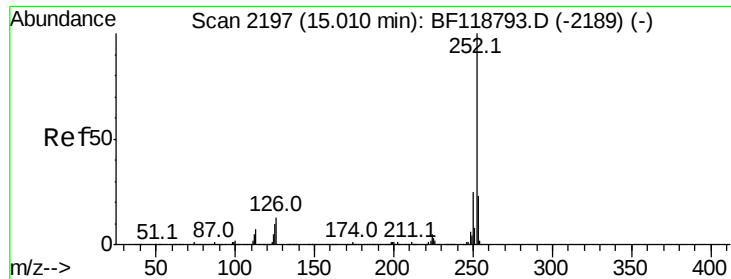
Abundance

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





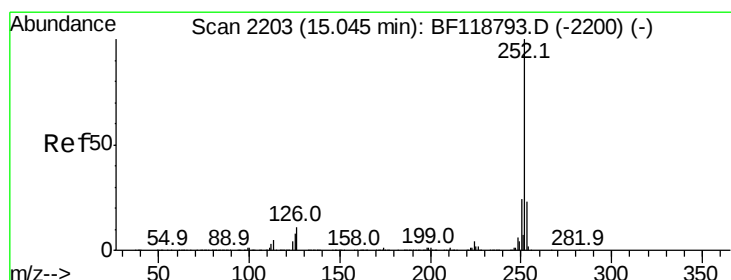
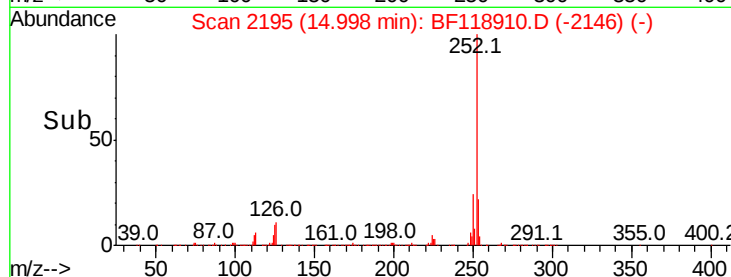
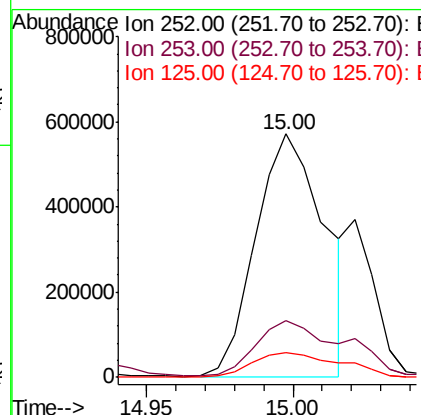
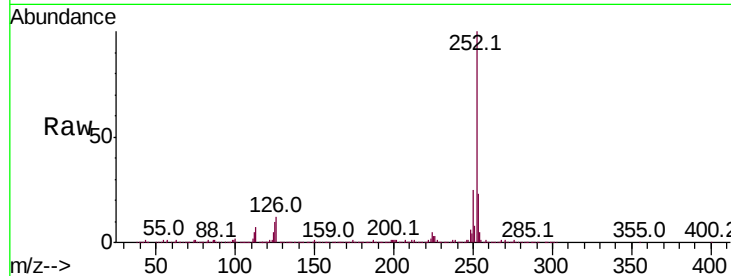
#88  
Benzo(b)fluoranthene  
Concen: 27.723 ng m  
RT: 15.00 min Scan# 2195  
Delta R.T. -0.01 min  
Lab File: BF118910.D  
Acq: 12 Feb 2020 11:30

Instrument :  
BNA\_F  
ClientSampleId :  
TP10-EP2-3DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.1  | 18.4  | 27.6  |
| 125     | 10.1  | 8.1   | 12.1  |

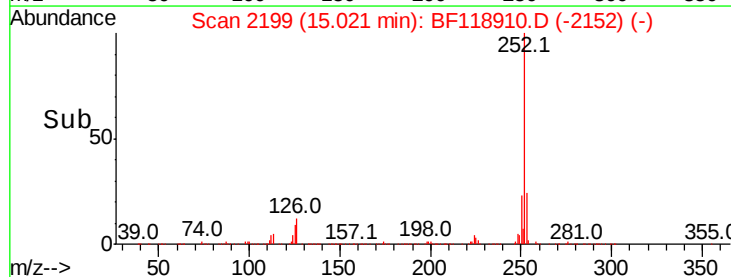
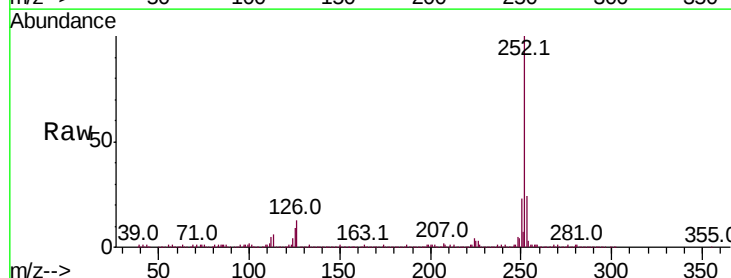
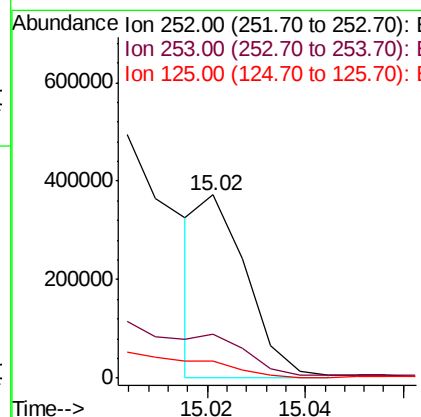
Manual Integrations  
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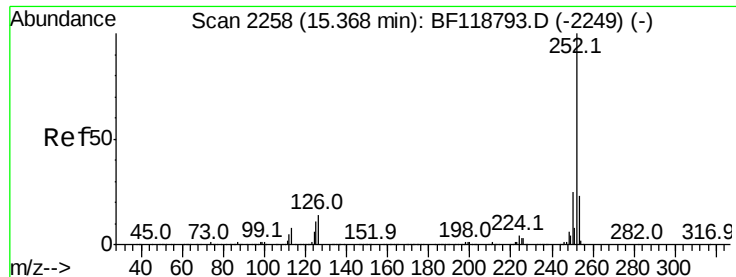
mohammad  
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#89  
Benzo(k)fluoranthene  
Concen: 8.419 ng m  
RT: 15.02 min Scan# 2199  
Delta R.T. -0.02 min  
Lab File: BF118910.D  
Acq: 12 Feb 2020 11:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.1  | 18.2  | 27.4  |
| 125     | 9.3   | 7.0   | 10.6  |





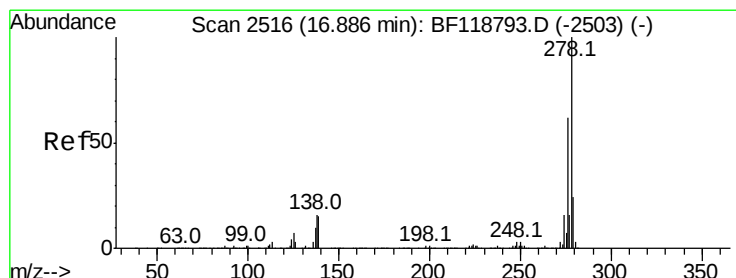
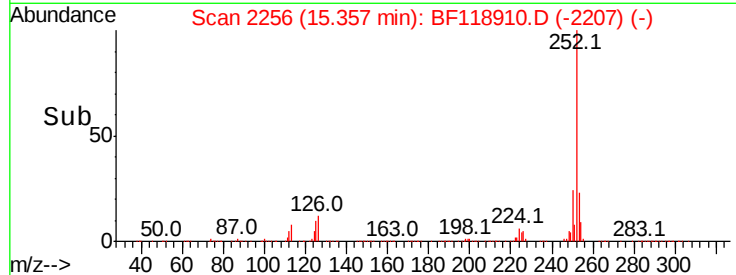
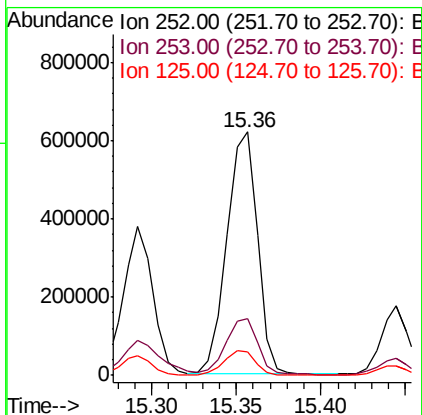
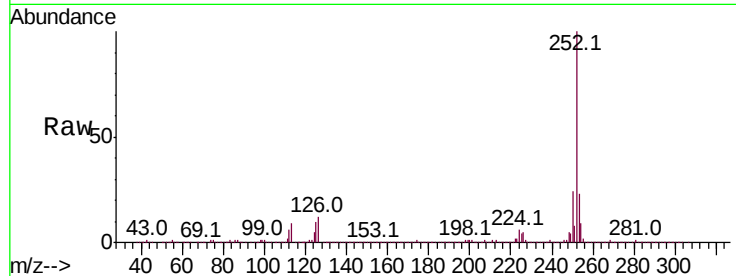
#90  
Benzo(a)pyrene  
Concen: 27.137 ng  
RT: 15.36 min Scan# 2256  
Delta R.T. -0.01 min  
Lab File: BF118910.D  
Acq: 12 Feb 2020 11:30

Instrument :  
BNA\_F  
ClientSampleId :  
TP10-EP2-3DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.1  | 18.1  | 27.1  |
| 125     | 9.8   | 8.7   | 13.1  |

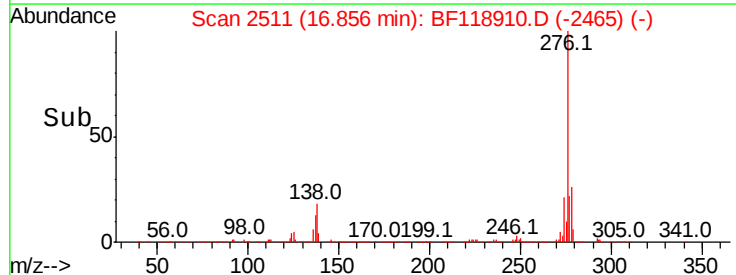
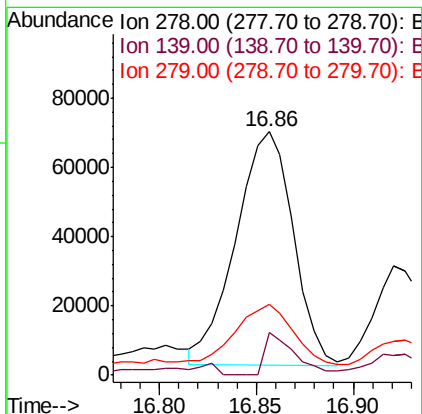
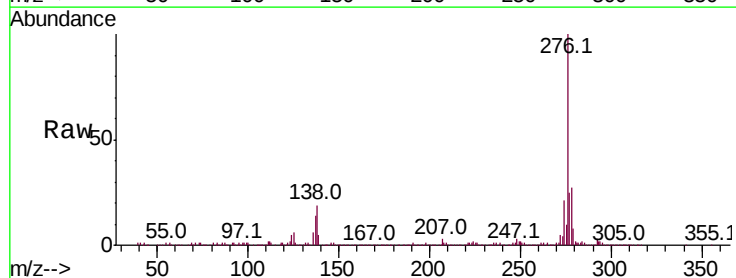
Manual Integrations  
APPROVED

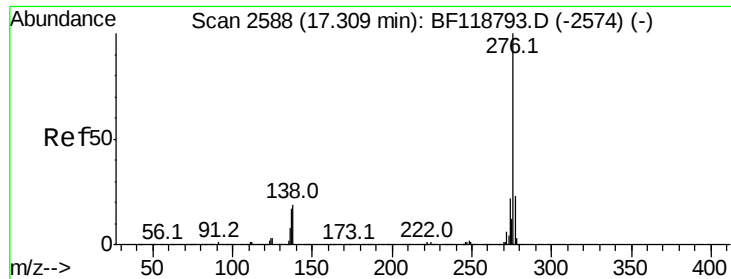
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#91  
Dibenzo(a,h)anthracene  
Concen: 5.494 ng m  
RT: 16.86 min Scan# 2511  
Delta R.T. -0.03 min  
Lab File: BF118910.D  
Acq: 12 Feb 2020 11:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 17.4  | 12.3  | 18.5  |
| 279     | 29.0  | 19.1  | 28.7# |





#92  
 Benzo(a,h,i)perylene  
 Concen: 20.907 ng  
 RT: 17.29 min Scan# 2585  
 Delta R.T. -0.02 min  
 Lab File: BF118910.D  
 Acq: 12 Feb 2020 11:30

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP10-EP2-3DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 276   | Resp: | 513864 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 277       | 23.9  | 18.7  | 28.1   |
| 138       | 19.7  | 15.4  | 23.2   |

Manual Integrations  
 APPROVED

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