

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF013120\  
 Data File : BF118778.D  
 Acq On : 31 Jan 2020 13:33  
 Operator : CG/JU  
 Sample : L1319-18  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RAINEY-PARK-BH-06-B

Manual Integrations  
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 2/3/2020 4:10:20 PM

Quant Time: Jan 31 22:32:03 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jan 27 14:24:10 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 6.83  | 152  | 309230   | 20.00  | ng    | -0.04    |
| 21) Naphthalene-d8          | 8.11  | 136  | 1168046  | 20.00  | ng    | -0.04    |
| 39) Acenaphthene-d10        | 9.86  | 164  | 640849   | 20.00  | ng    | -0.04    |
| 64) Phenanthrene-d10        | 11.35 | 188  | 1106335  | 20.00  | ng    | -0.04    |
| 76) Chrysene-d12            | 13.99 | 240  | 615739   | 20.00  | ng    | -0.04    |
| 87) Perylene-d12            | 15.44 | 264  | 676606   | 20.00  | ng    | -0.04    |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.45  | 112  | 1562934  | 93.87  | ng    | -0.03    |
| 7) Phenol-d6                | 6.46  | 99   | 2049127  | 94.69  | ng    | -0.04    |
| 23) Nitrobenzene-d5         | 7.39  | 82   | 1336093  | 63.98  | ng    | -0.04    |
| 42) 2,4,6-Tribromophenol    | 10.65 | 330  | 676511   | 91.27  | ng    | -0.04    |
| 45) 2-Fluorobiphenyl        | 9.19  | 172  | 2632729  | 67.52  | ng    | -0.04    |
| 79) Terphenyl-d14           | 12.93 | 244  | 2755496  | 97.61  | ng    | -0.03    |
| Target Compounds            |       |      |          |        |       |          |
| 10) Phenol                  | 6.47  | 94   | 51012    | 2.068  | ng    | 98       |
| 50) Dimethylphthalate       | 9.57  | 163  | 169099   | 4.050  | ng    | 100      |
| 71) Phenanthrene            | 11.37 | 178  | 917634   | 17.192 | ng    | 97       |
| 72) Anthracene              | 11.42 | 178  | 208793   | 3.953  | ng    | 97       |
| 75) Fluoranthene            | 12.56 | 202  | 1225558  | 21.770 | ng    | 96       |
| 78) Pyrene                  | 12.79 | 202  | 1057856  | 25.306 | ng    | 98       |
| 81) Benzo(a)anthracene      | 13.97 | 228  | 445881   | 12.038 | ng    | 100      |
| 83) Chrysene                | 14.01 | 228  | 404589   | 11.397 | ng    | 97       |
| 86) Indeno(1,2,3-cd)pyrene  | 16.87 | 276  | 325449   | 10.551 | ng    | 94       |
| 88) Benzo(b)fluoranthene    | 15.02 | 252  | 564613m  | 13.276 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.04 | 252  | 167699m  | 4.256  | ng    |          |
| 90) Benzo(a)pyrene          | 15.37 | 252  | 407277   | 11.101 | ng    | 100      |
| 91) Dibenzo(a,h)anthracene  | 16.88 | 278  | 75540m   | 2.328  | ng    |          |
| 92) Benzo(a,h,i)perylene    | 17.31 | 276  | 308059   | 9.777  | ng    | 99       |

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

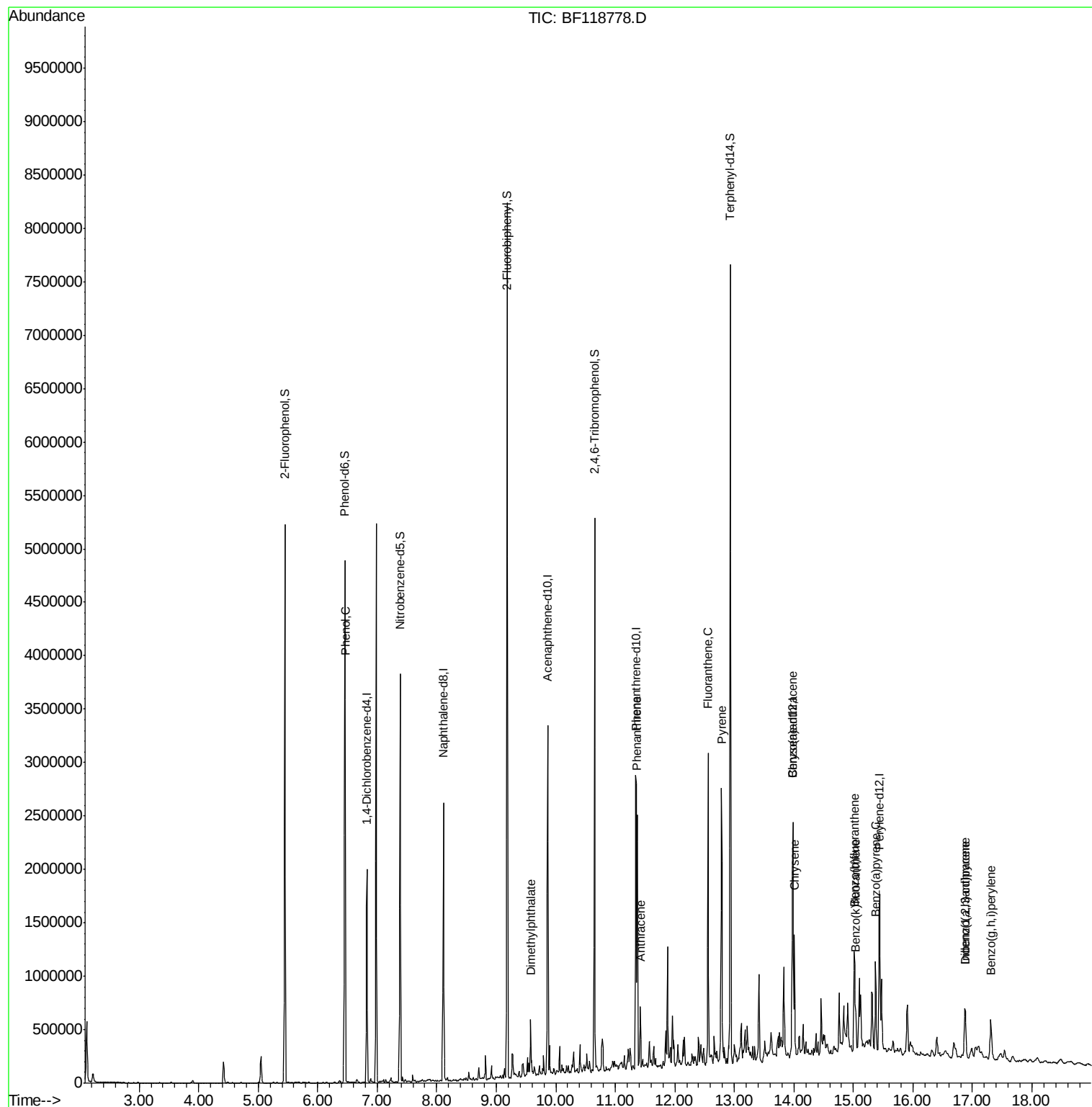
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF013120\  
Data File : BF118778.D  
Acq On : 31 Jan 2020 13:33  
Operator : CG/JU  
Sample : L1319-18  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

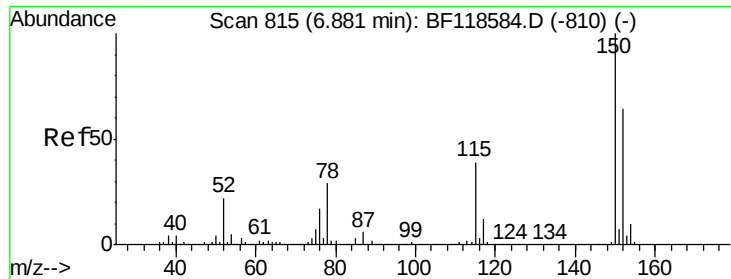
Instrument :  
BNA\_F  
ClientSampleId :  
RAINEY-PARK-BH-06-B

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Quant Time: Jan 31 22:32:03 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF012020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jan 27 14:24:10 2020  
Response via : Initial Calibration





#1

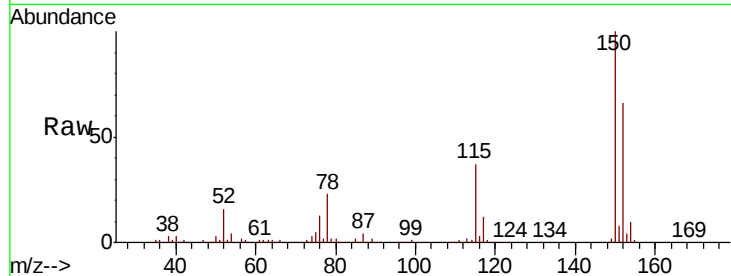
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.83 min Scan# 806  
Delta R.T. -0.04 min  
Lab File: BF118778.D  
Acq: 31 Jan 2020 13:33

Instrument :  
BNA\_F  
ClientSampleId :  
RAINEY-PARK-BH-06-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 152.7 | 123.7 | 185.5 |
| 115     | 56.2  | 45.1  | 67.7  |

Manual Integrations  
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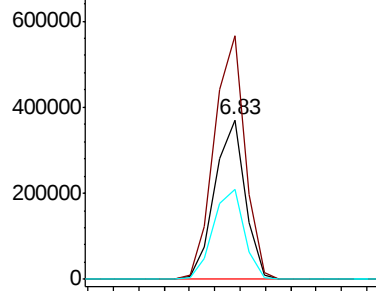


Abundance

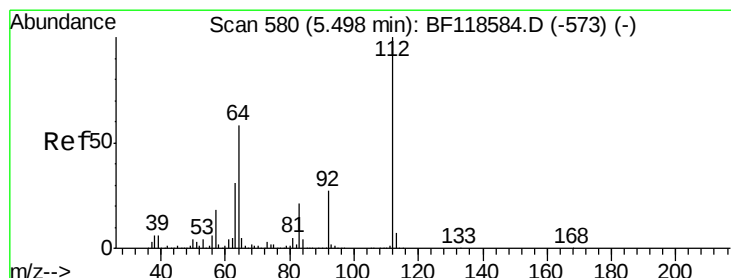
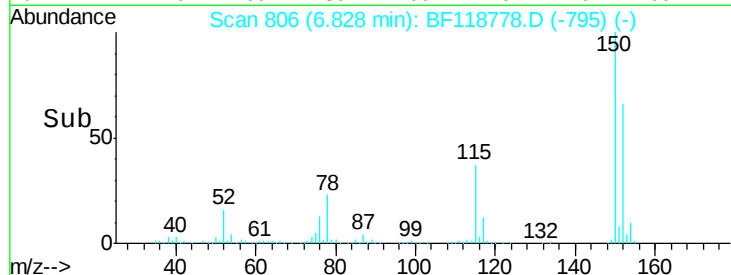
Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



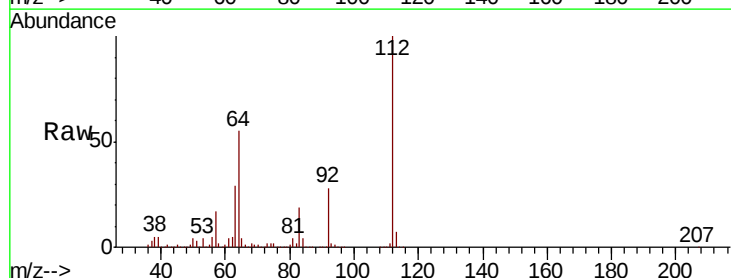
Time-->



#5

2-Fluorophenol  
Concen: 93.871 ng  
RT: 5.45 min Scan# 572  
Delta R.T. -0.03 min  
Lab File: BF118778.D  
Acq: 31 Jan 2020 13:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 55.2  | 42.4  | 63.6  |
| 63      | 28.7  | 21.7  | 32.5  |

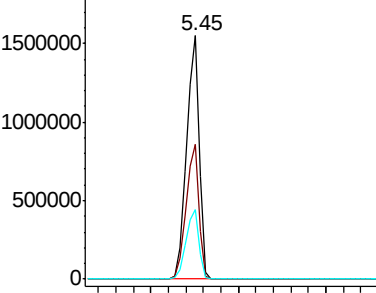


Abundance

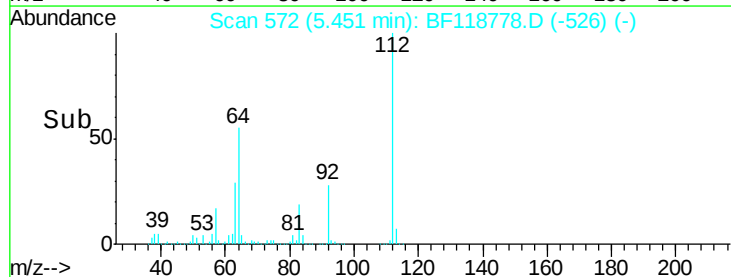
Ion 112.00 (111.70 to 112.70): E

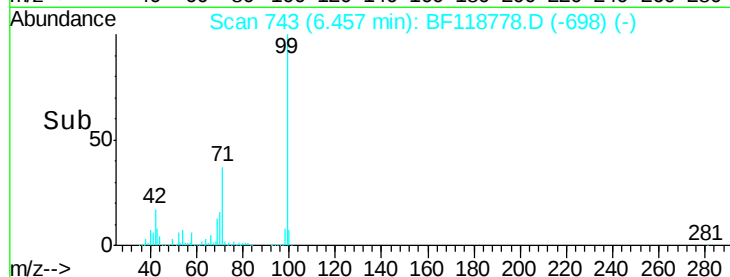
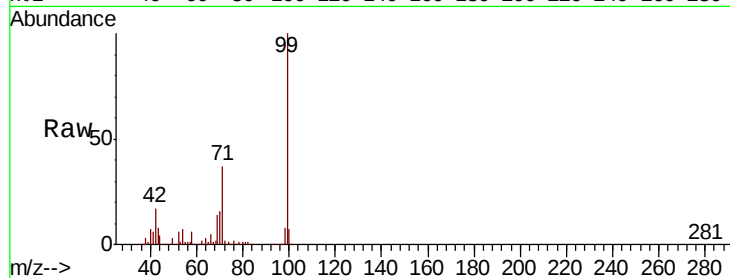
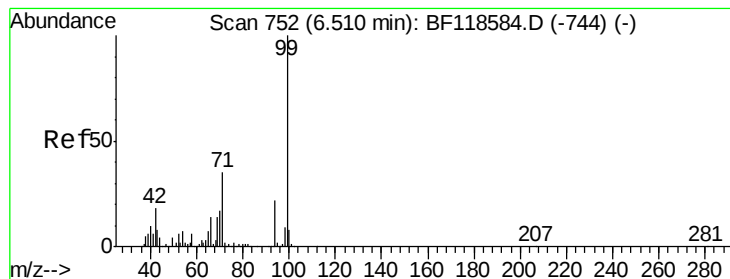
Ion 64.00 (63.70 to 64.70): BF1

Ion 63.00 (62.70 to 63.70): BF1



Time-->





#7

Phenol-d6

Concen: 94.689 ng

RT: 6.46 min Scan# 743

Delta R.T. -0.04 min

Lab File: BF118778.D

Acq: 31 Jan 2020 13:33

|          |       |       |         |
|----------|-------|-------|---------|
| Tot Ion: | 99    | Resp: | 2049127 |
| Ion      | Ratio | Lower | Upper   |
| 99       | 100   |       |         |
| 42       | 17.1  | 13.1  | 19.7    |
| 71       | 36.8  | 28.4  | 42.6    |

Instrument :

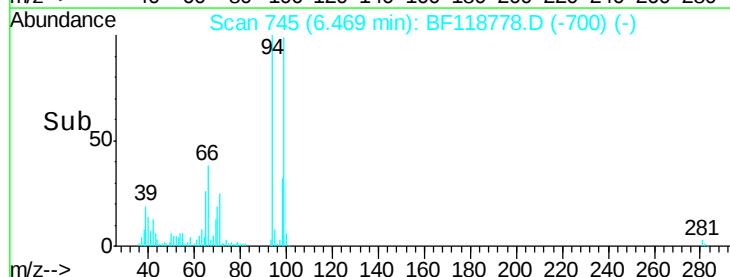
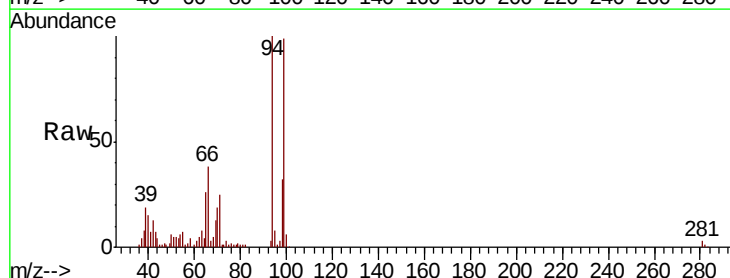
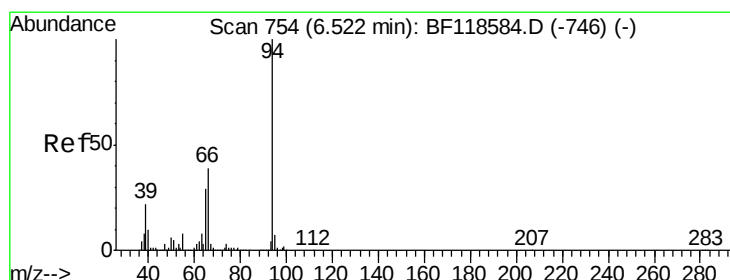
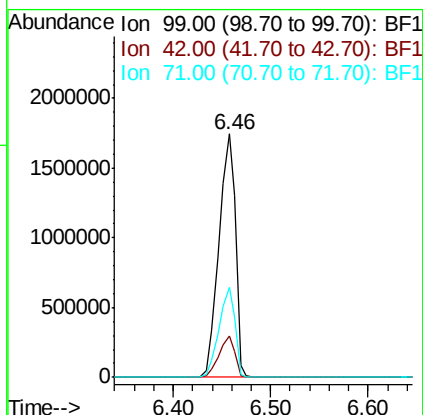
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ClientSampleId :

RAINEY-PARK-BH-06-B

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#10

Phenol

Concen: 2.068 ng

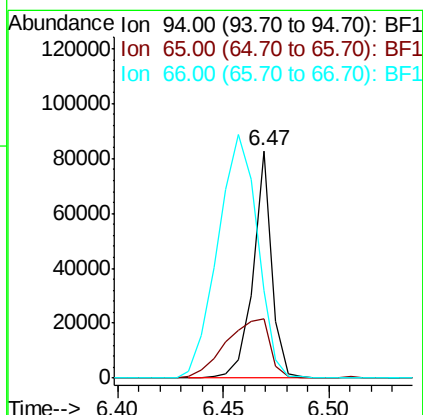
RT: 6.47 min Scan# 745

Delta R.T. -0.04 min

Lab File: BF118778.D

Acq: 31 Jan 2020 13:33

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 94    | Resp: | 51012 |
| Ion      | Ratio | Lower | Upper |
| 94       | 100   |       |       |
| 65       | 26.3  | 7.9   | 47.9  |
| 66       | 38.4  | 19.1  | 59.1  |





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.11 min Scan# 1024

Delta R.T. -0.04 min

Lab File: BF118778.D

Acq: 31 Jan 2020 13:33

Instrument :

BNA\_F

ClientSampleId :

RAINEY-PARK-BH-06-B

Tot Ion:136 Resp: 1168046

Ion Ratio Lower Upper

136 100

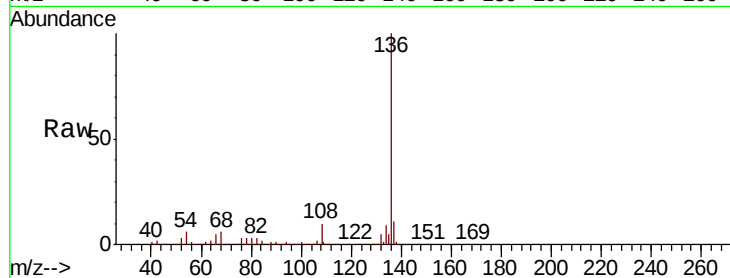
137 11.3 8.9 13.3

54 6.3 5.1 7.7

68 5.5 4.3 6.5

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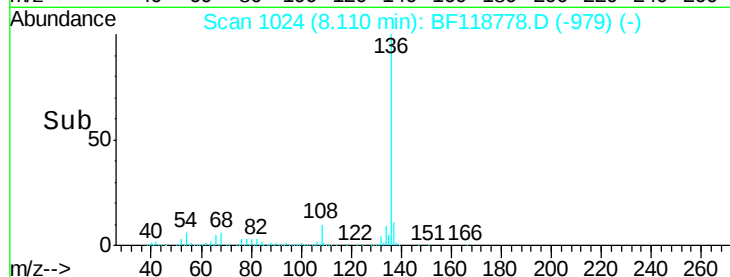


Abundance Ion 136.00 (135.70 to 136.70): E

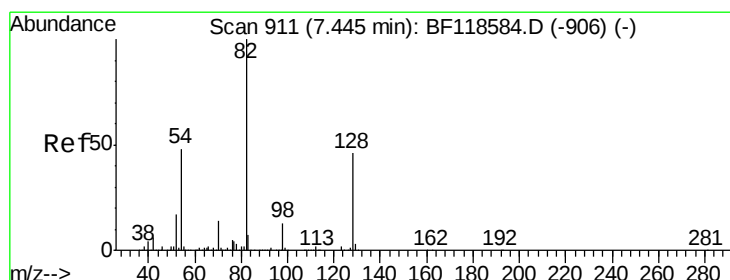
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



Time-->



#23

Nitrobenzene-d5

Concen: 63.981 ng

RT: 7.39 min Scan# 901

Delta R.T. -0.04 min

Lab File: BF118778.D

Acq: 31 Jan 2020 13:33

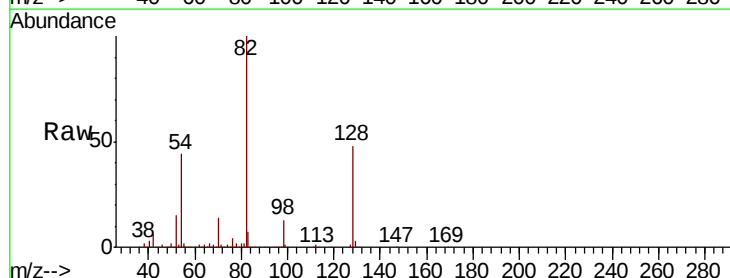
Tgt Ion: 82 Resp: 1336093

Ion Ratio Lower Upper

82 100

128 47.8 38.2 57.2

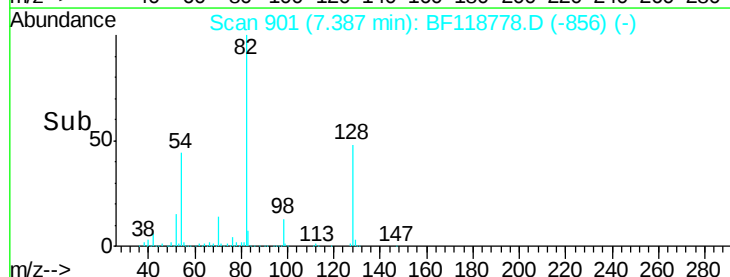
54 44.3 36.1 54.1



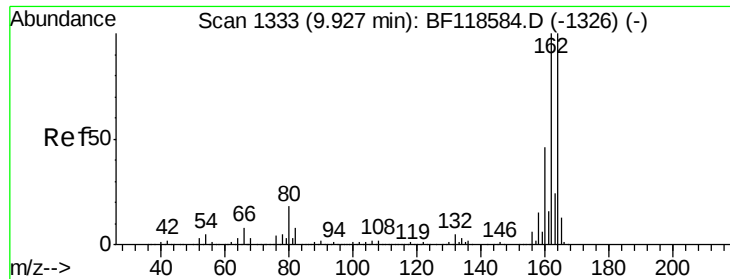
Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1



Time-->



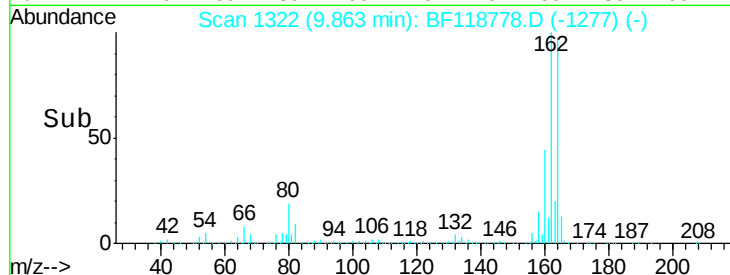
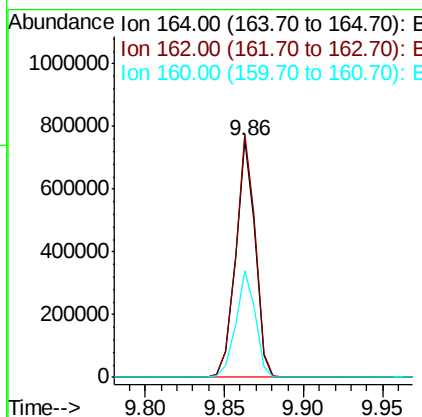
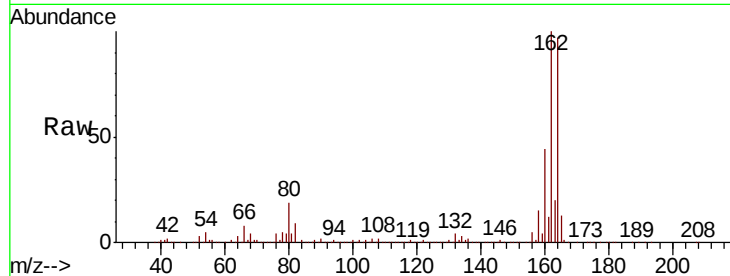
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.86 min Scan# 1322  
Delta R.T. -0.04 min  
Lab File: BF118778.D  
Acq: 31 Jan 2020 13:33

Instrument :  
BNA\_F  
ClientSampleId :  
RAINEY-PARK-BH-06-B

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 102.8 | 80.8 | 121.2 |       |
| 160     | 45.1  | 35.4 | 53.0  |       |

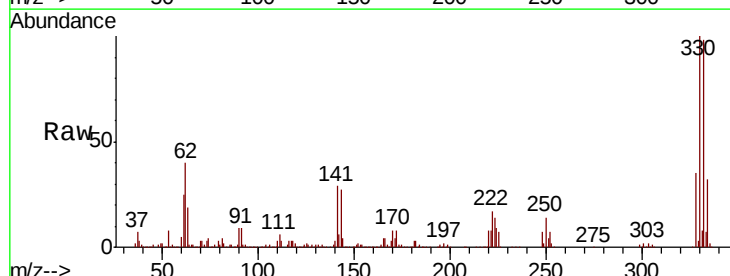
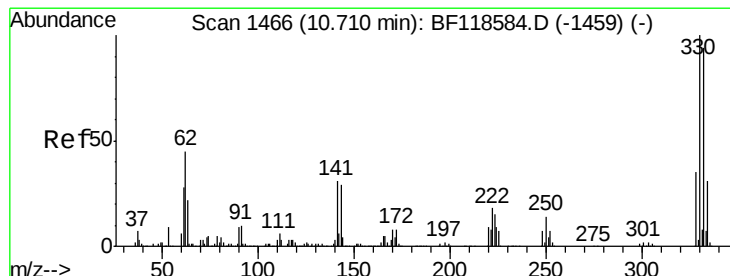
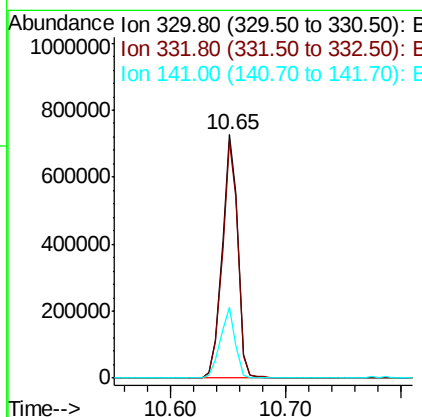
Manual Integrations  
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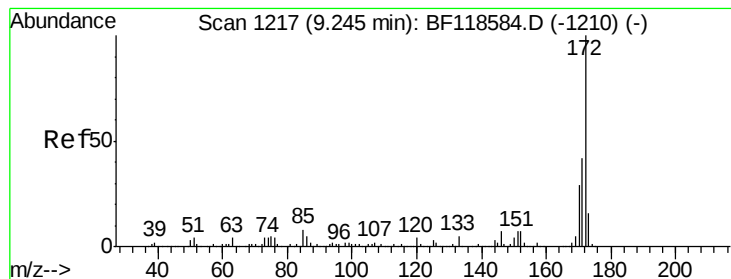
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2/3/2020 4:10:20 PM



#42  
2,4,6-Tribromophenol  
Concen: 91.269 ng  
RT: 10.65 min Scan# 1456  
Delta R.T. -0.04 min  
Lab File: BF118778.D  
Acq: 31 Jan 2020 13:33

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 97.1  | 77.6 | 116.4 |       |
| 141     | 28.5  | 22.2 | 33.2  |       |





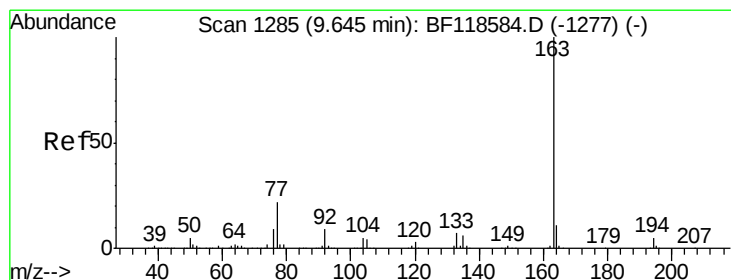
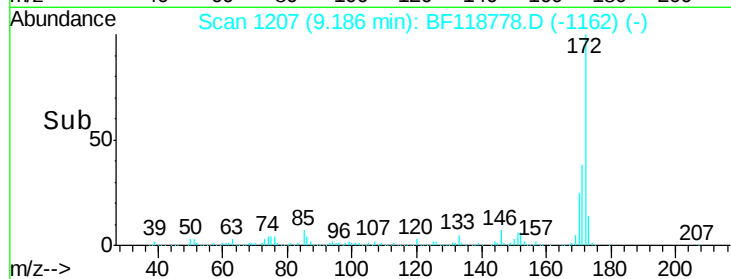
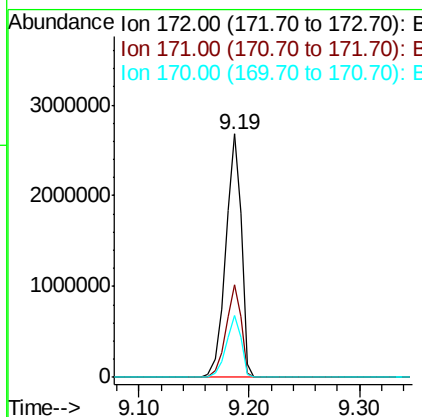
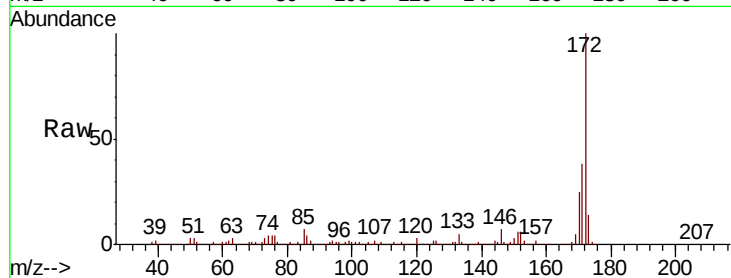
#45  
2-Fluorobiphenyl  
Concen: 67.523 ng  
RT: 9.19 min Scan# 1207  
Delta R.T. -0.04 min  
Lab File: BF118778.D  
Acq: 31 Jan 2020 13:33

Instrument :  
BNA\_F  
ClientSampleId :  
RAINEY-PARK-BH-06-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 38.0  | 31.0  | 46.4  |
| 170     | 25.3  | 20.7  | 31.1  |

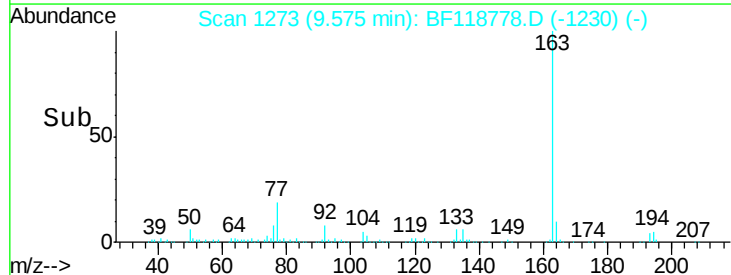
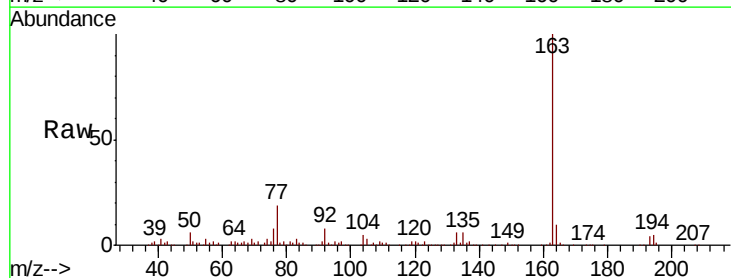
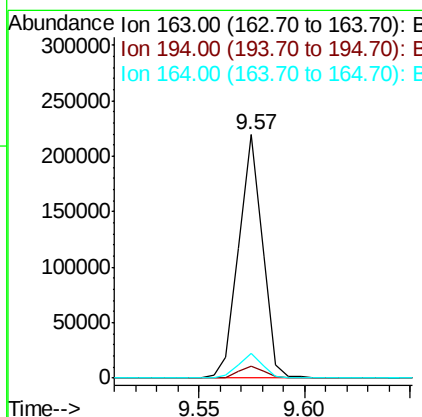
Manual Integrations  
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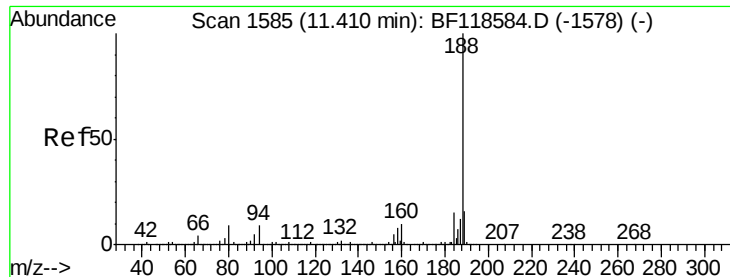
mohammad  
2/3/2020 4:10:20 PM



#50  
Dimethylphthalate  
Concen: 4.050 ng  
RT: 9.57 min Scan# 1273  
Delta R.T. -0.05 min  
Lab File: BF118778.D  
Acq: 31 Jan 2020 13:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 4.8   | 3.7   | 5.5   |
| 164     | 10.2  | 8.2   | 12.2  |





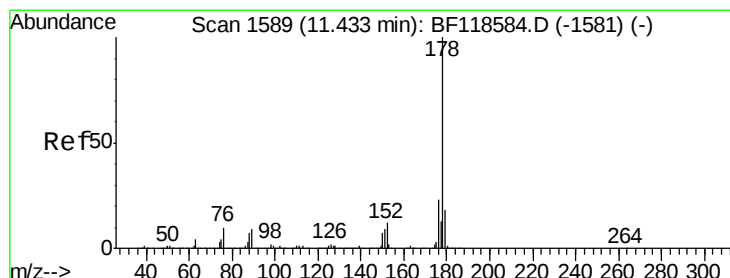
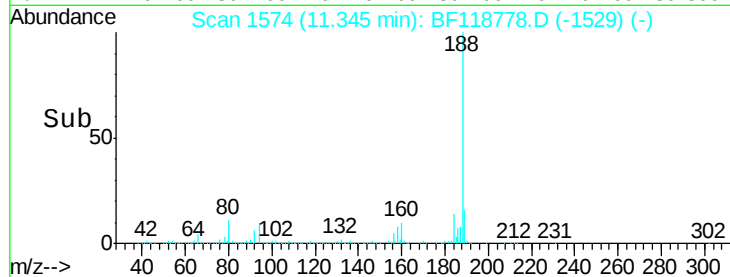
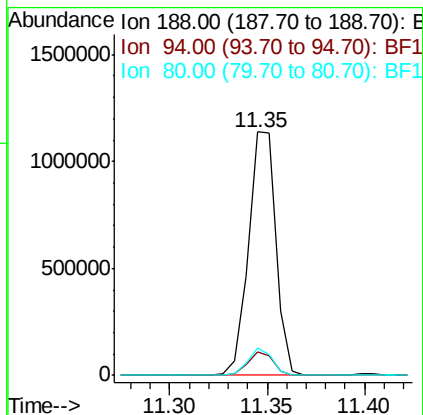
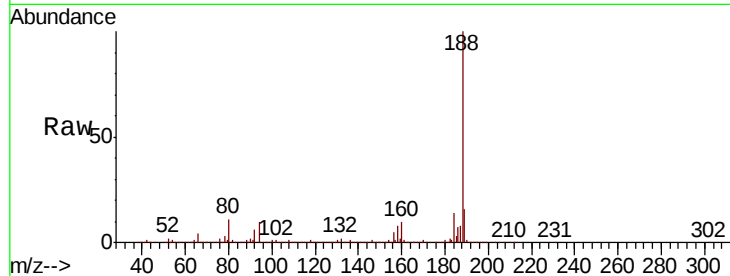
#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.35 min Scan# 1574  
 Delta R.T. -0.04 min  
 Lab File: BF118778.D  
 Acq: 31 Jan 2020 13:33

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RAINEY-PARK-BH-06-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.7   | 7.4   | 11.2  |
| 80      | 11.0  | 7.8   | 11.8  |

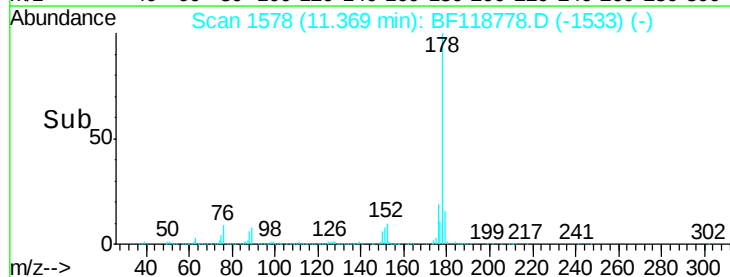
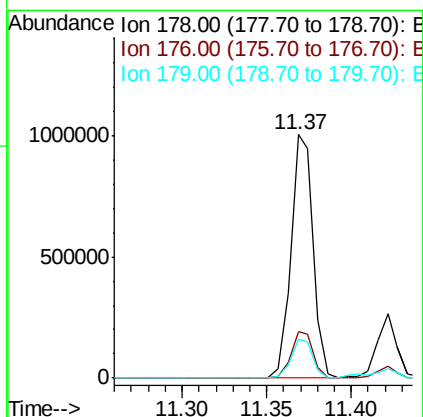
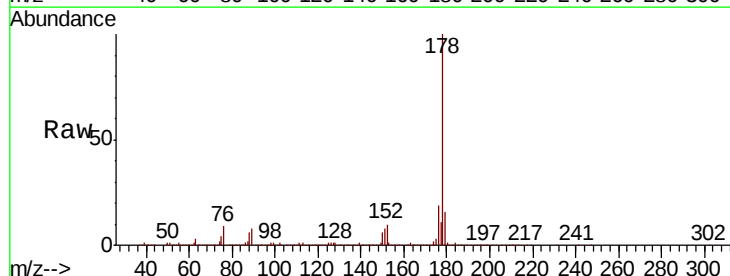
Manual Integrations  
 APPROVED

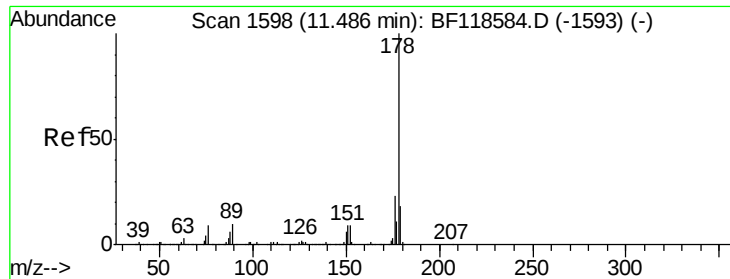
mohammad  
 2/3/2020 4:10:20 PM



#71  
 Phenanthrene  
 Concen: 17.192 ng  
 RT: 11.37 min Scan# 1578  
 Delta R.T. -0.04 min  
 Lab File: BF118778.D  
 Acq: 31 Jan 2020 13:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 19.1  | 16.5  | 24.7  |
| 179     | 15.9  | 13.3  | 19.9  |





#72

Anthracene

Concen: 3.953 ng

RT: 11.42 min Scan# 1587

Delta R.T. -0.04 min

Lab File: BF118778.D

Acq: 31 Jan 2020 13:33

Instrument :

BNA\_F

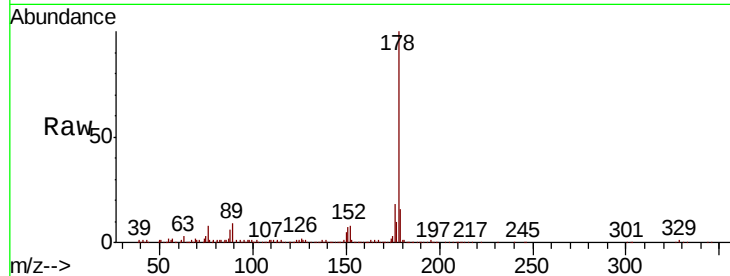
ClientSampleId :

RAINEY-PARK-BH-06-B

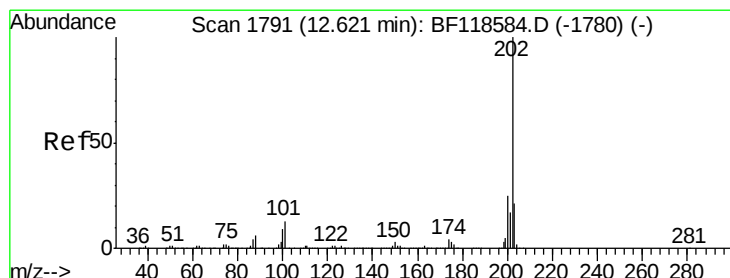
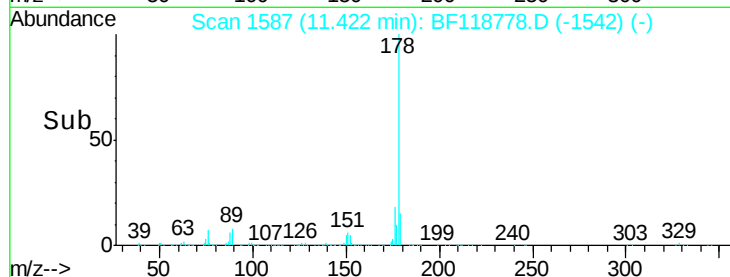
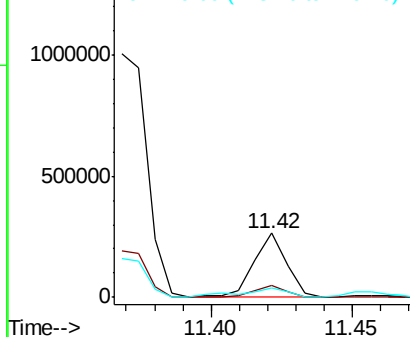
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 208793 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 176       | 18.3  | 15.8  | 23.8   |
| 179       | 15.6  | 13.3  | 19.9   |

Manual Integrations  
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2/3/2020 4:10:20 PM



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



#75

Fluoranthene

Concen: 21.770 ng

RT: 12.56 min Scan# 1781

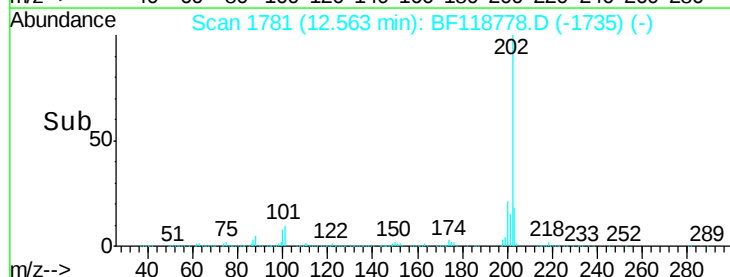
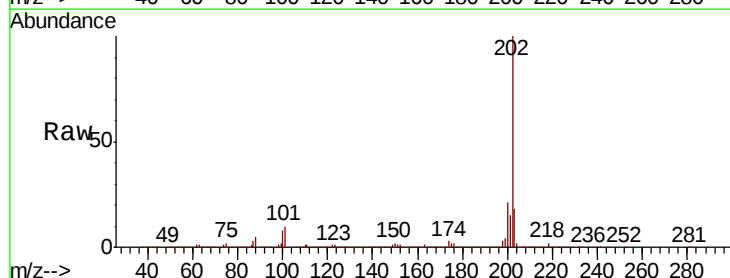
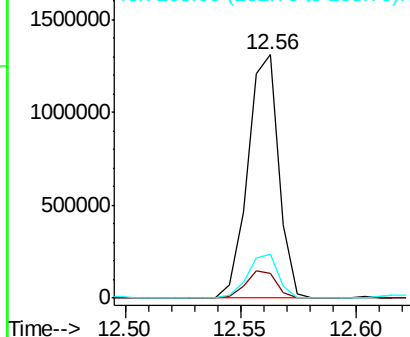
Delta R.T. -0.03 min

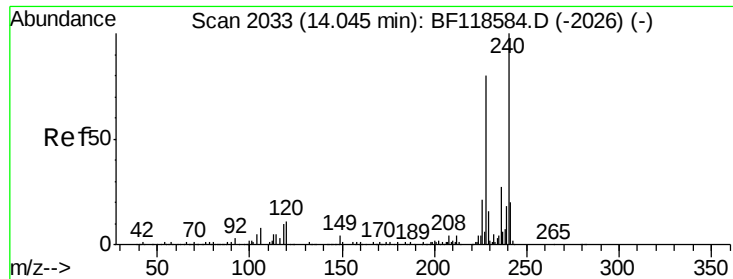
Lab File: BF118778.D

Acq: 31 Jan 2020 13:33

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 202   | Resp: | 1225558 |
| Ion Ratio | Lower | Upper |         |
| 202       | 100   |       |         |
| 101       | 9.9   | 0.0   | 32.1    |
| 203       | 17.8  | 0.0   | 38.9    |

Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E





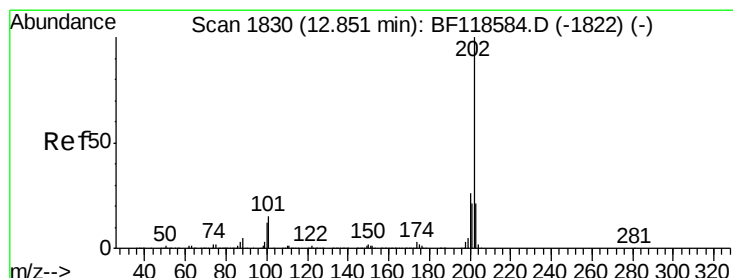
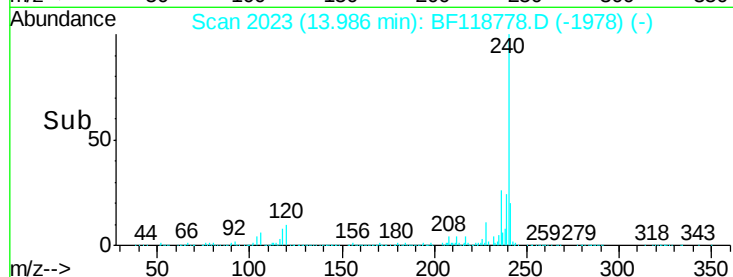
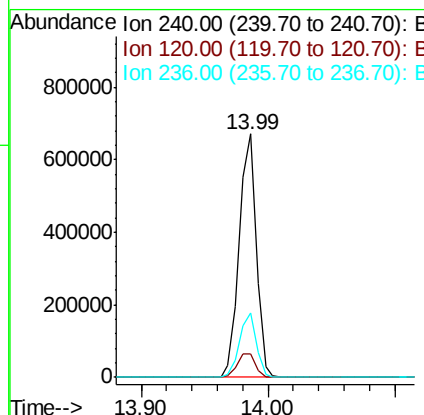
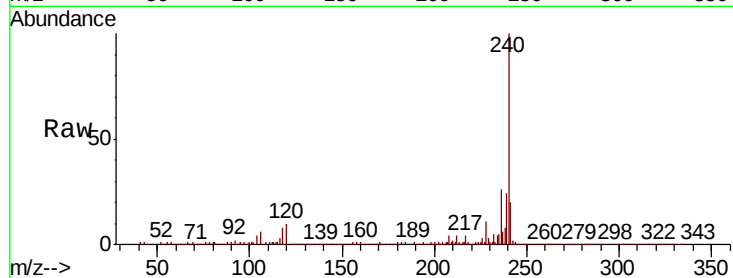
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.99 min Scan# 2033  
Delta R.T. -0.04 min  
Lab File: BF118778.D  
Acq: 31 Jan 2020 13:33

Instrument :  
BNA\_F  
ClientSampleId :  
RAINEY-PARK-BH-06-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 9.6   | 7.6   | 11.4  |
| 236     | 26.4  | 21.0  | 31.4  |

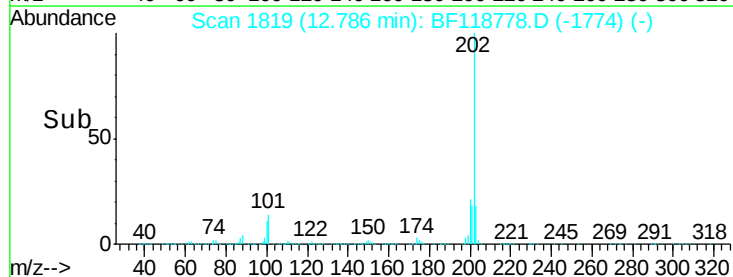
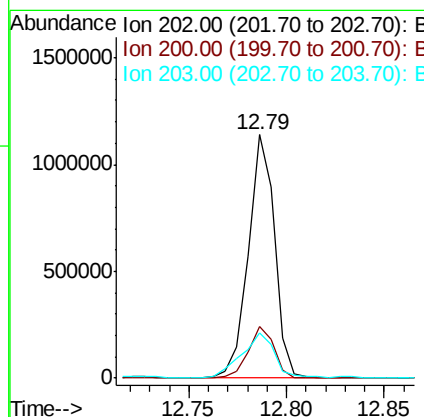
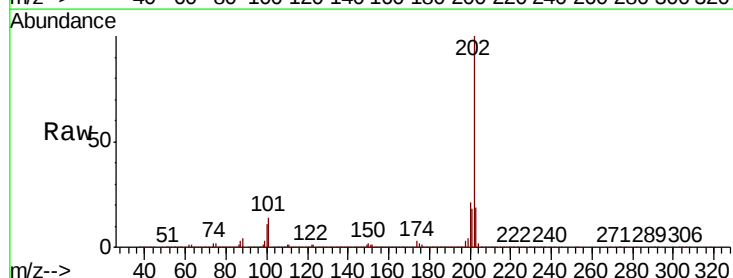
Manual Integrations  
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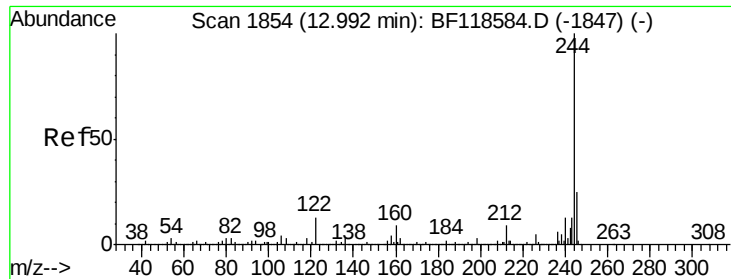
mohammad  
2/3/2020 4:10:20 PM



#78  
Pyrene  
Concen: 25.306 ng  
RT: 12.79 min Scan# 1819  
Delta R.T. -0.04 min  
Lab File: BF118778.D  
Acq: 31 Jan 2020 13:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.4  | 18.1  | 27.1  |
| 203     | 18.6  | 15.2  | 22.8  |





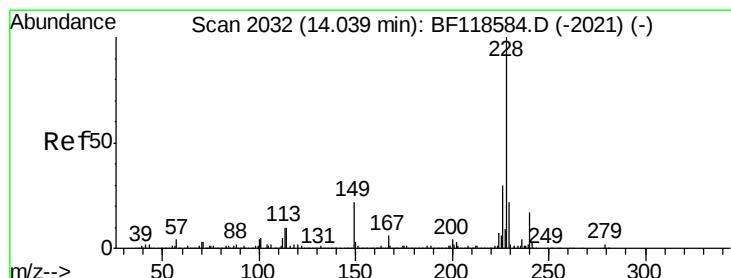
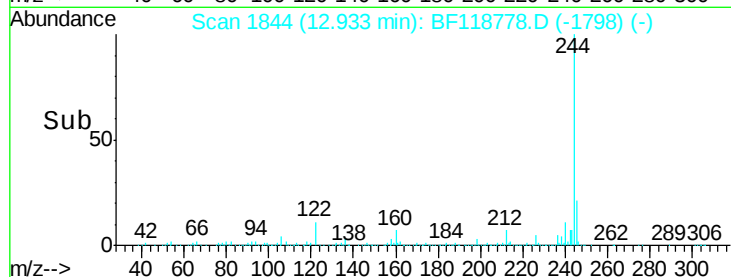
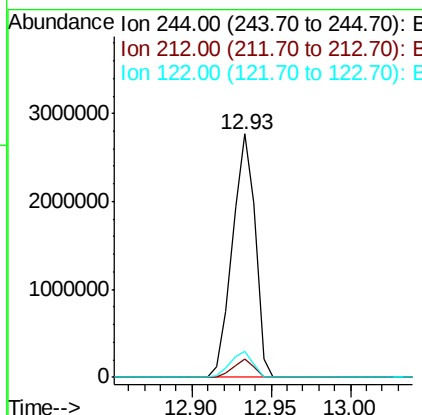
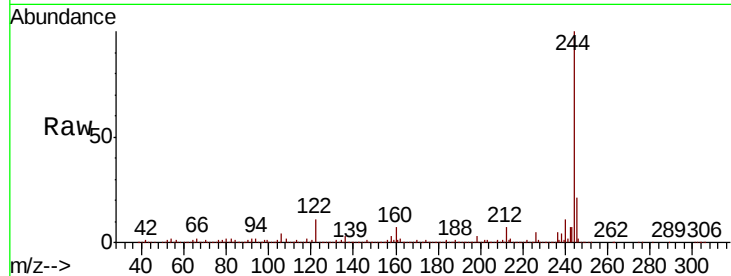
#79  
 Terphenyl-d14  
 Concen: 97.606 ng  
 RT: 12.93 min Scan# 1844  
 Delta R.T. -0.03 min  
 Lab File: BF118778.D  
 Acq: 31 Jan 2020 13:33

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RAINEY-PARK-BH-06-B

Tot Ion:244 Resp: 2755496  
 Ion Ratio Lower Upper  
 244 100  
 212 7.5 6.3 9.5  
 122 10.9 9.2 13.8

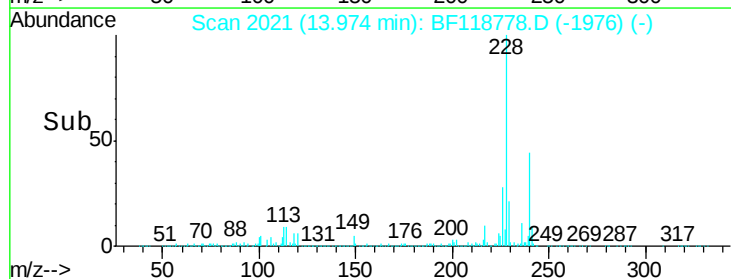
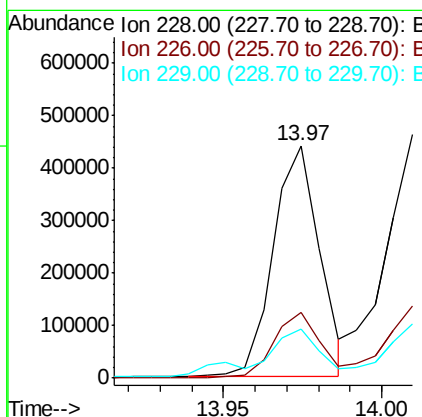
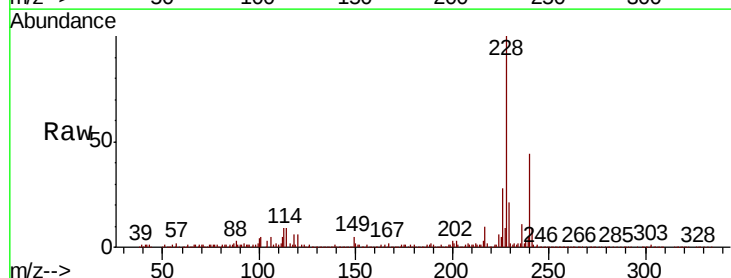
Manual Integrations  
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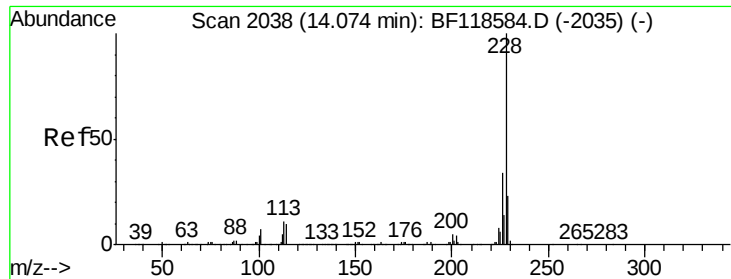
mohammad  
 2/3/2020 4:10:20 PM



#81  
 Benzo(a)anthracene  
 Concen: 12.038 ng  
 RT: 13.97 min Scan# 2021  
 Delta R.T. -0.04 min  
 Lab File: BF118778.D  
 Acq: 31 Jan 2020 13:33

Tgt Ion:228 Resp: 445881  
 Ion Ratio Lower Upper  
 228 100  
 226 28.4 22.6 34.0  
 229 20.9 16.6 25.0





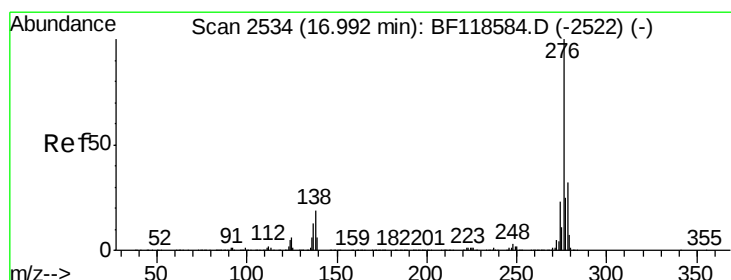
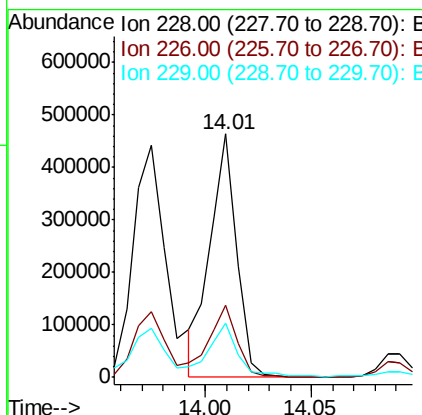
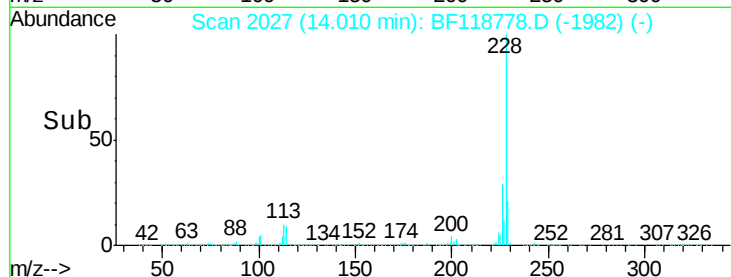
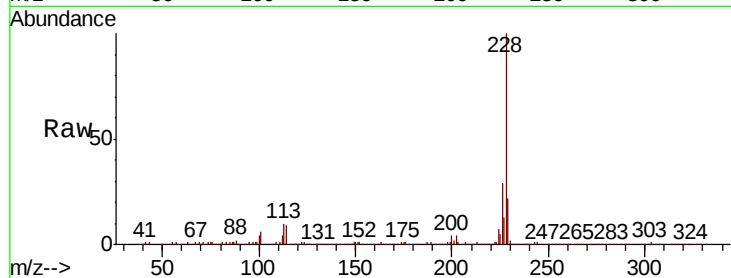
#83  
Chrysene  
Concen: 11.397 ng  
RT: 14.01 min Scan# 2027  
Delta R.T. -0.04 min  
Lab File: BF118778.D  
Acq: 31 Jan 2020 13:33

Instrument :  
BNA\_F  
ClientSampleId :  
RAINEY-PARK-BH-06-B

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 228     | 100  |       | 404589 |       |       |
| 226     | 29.5 | 25.6  | 38.4   |       |       |
| 229     | 22.2 | 17.1  | 25.7   |       |       |

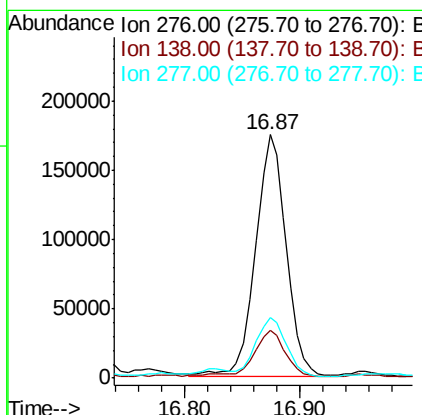
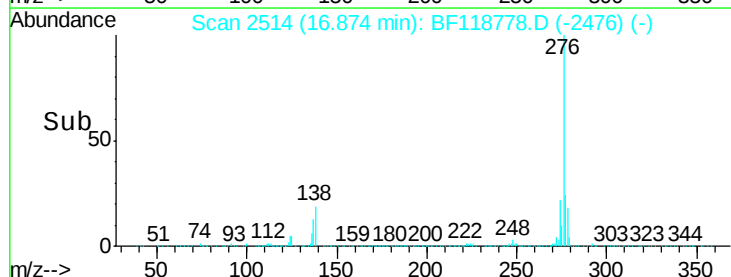
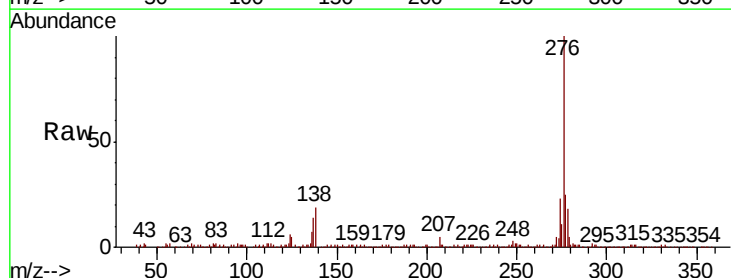
Manual Integrations  
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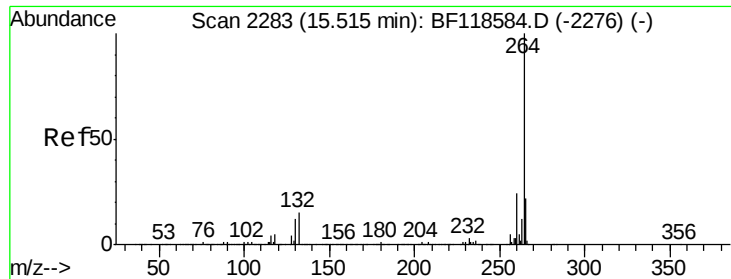
mohammad  
2/3/2020 4:10:20 PM



#86  
Indeno(1,2,3-cd)pyrene  
Concen: 10.551 ng  
RT: 16.87 min Scan# 2514  
Delta R.T. -0.08 min  
Lab File: BF118778.D  
Acq: 31 Jan 2020 13:33

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 276     | 100  |       | 325449 |       |       |
| 138     | 18.4 | 18.2  | 27.4   |       |       |
| 277     | 24.2 | 20.4  | 30.6   |       |       |





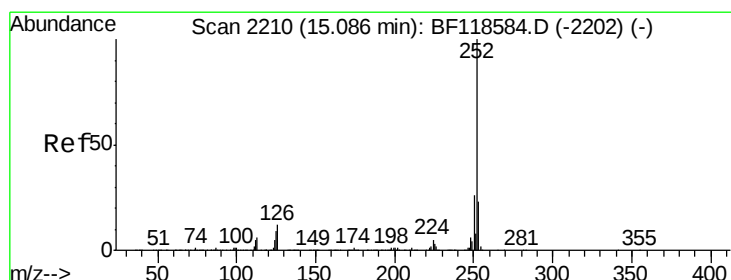
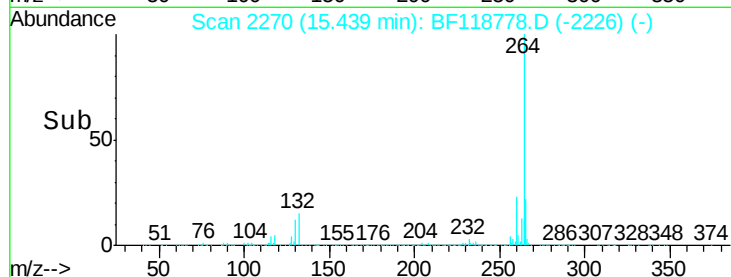
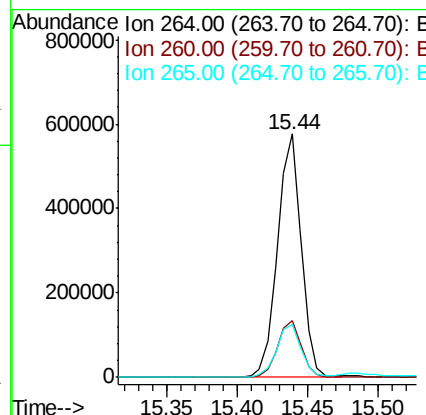
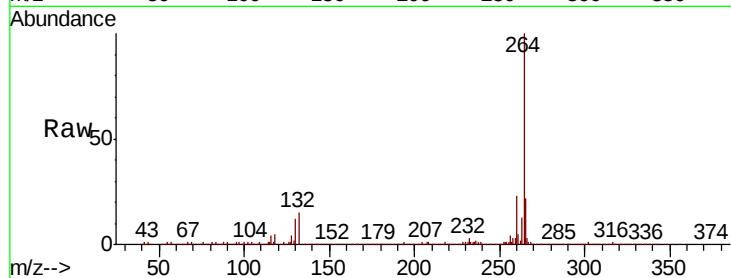
#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.44 min Scan# 2270  
Delta R.T. -0.04 min  
Lab File: BF118778.D  
Acq: 31 Jan 2020 13:33

Instrument :  
BNA\_F  
ClientSampleId :  
RAINEY-PARK-BH-06-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.1  | 18.6  | 28.0  |
| 265     | 21.8  | 17.0  | 25.6  |

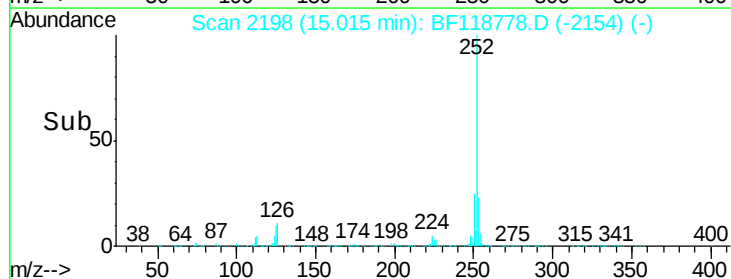
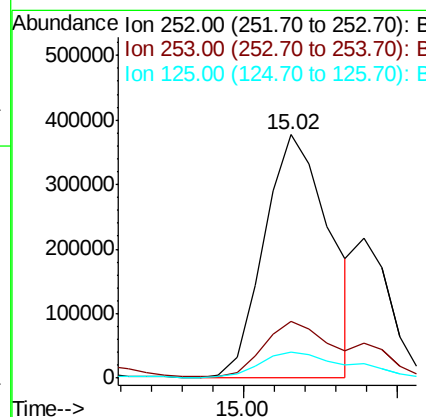
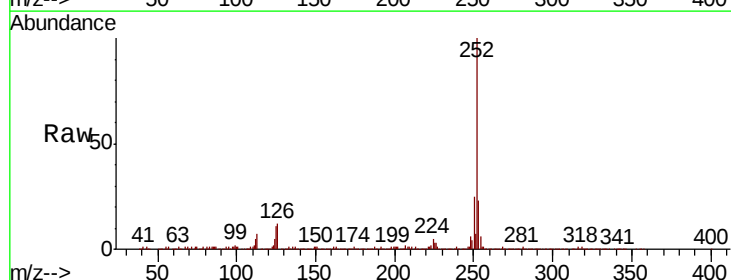
Manual Integrations  
APPROVED

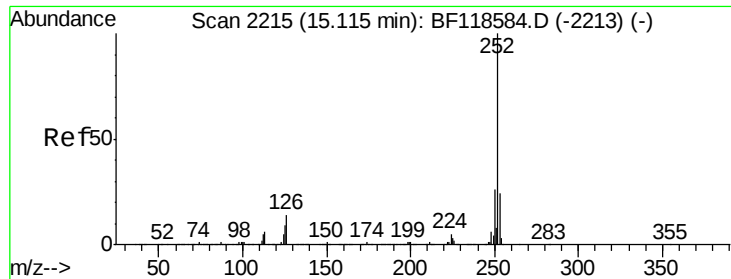
mohammad  
2/3/2020 4:10:20 PM



#88  
Benzo(b)fluoranthene  
Concen: 13.276 ng m  
RT: 15.02 min Scan# 2198  
Delta R.T. -0.04 min  
Lab File: BF118778.D  
Acq: 31 Jan 2020 13:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.1  | 18.2  | 27.4  |
| 125     | 10.5  | 7.7   | 11.5  |





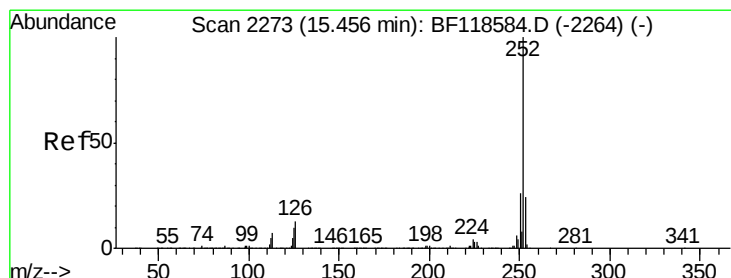
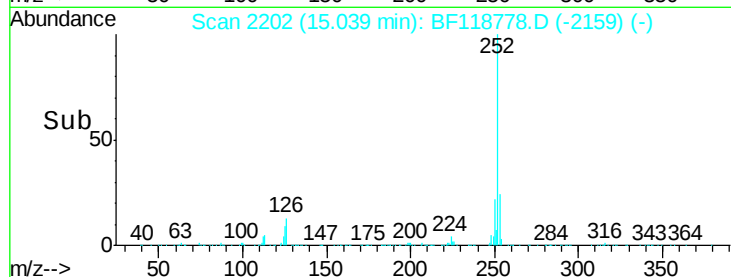
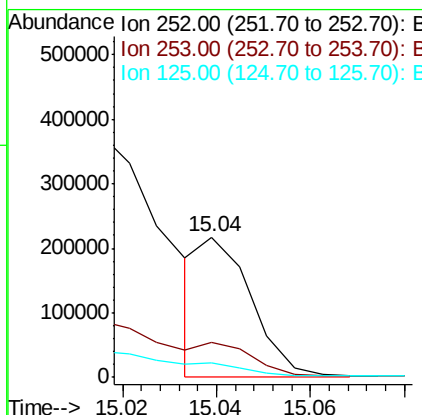
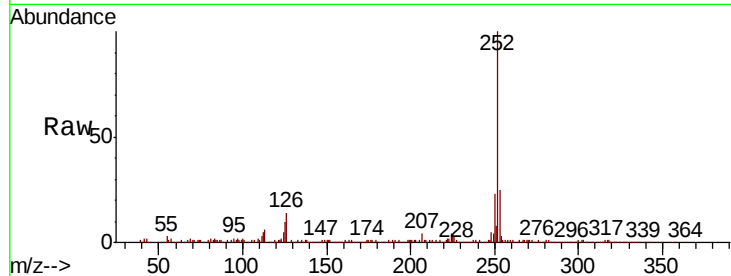
#89  
Benzo(k)fluoranthene  
Concen: 4.256 ng m  
RT: 15.04 min Scan# 2202  
Delta R.T. -0.05 min  
Lab File: BF118778.D  
Acq: 31 Jan 2020 13:33

Instrument :  
BNA\_F  
ClientSampleId :  
RAINEY-PARK-BH-06-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.7  | 18.4  | 27.6  |
| 125     | 10.1  | 8.1   | 12.1  |

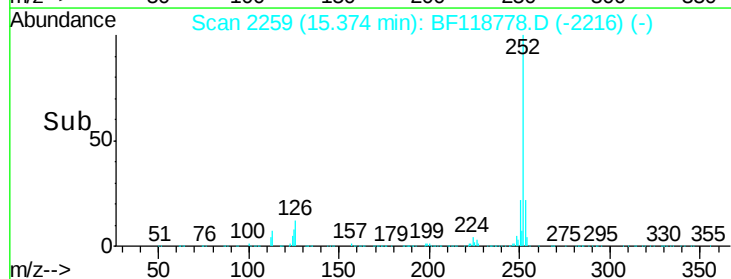
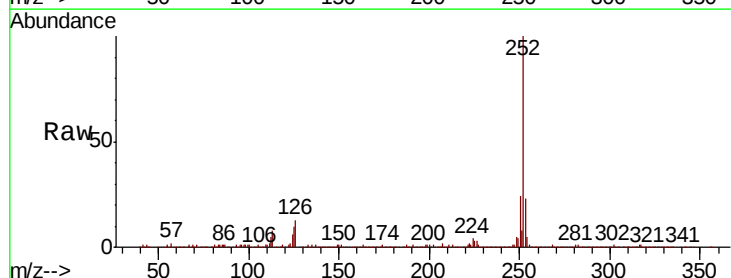
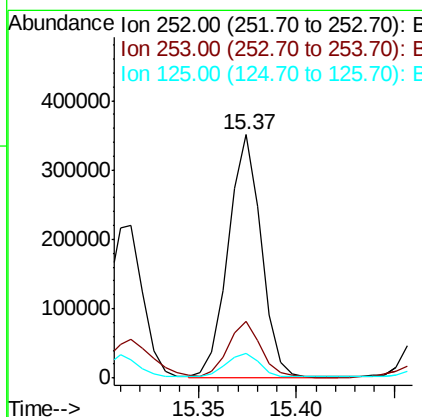
Manual Integrations  
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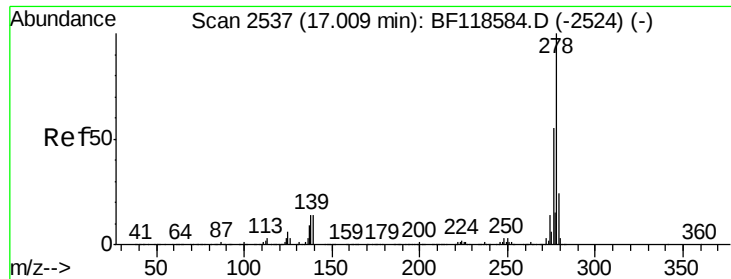
mohammad  
2/3/2020 4:10:20 PM



#90  
Benzo(a)pyrene  
Concen: 11.101 ng  
RT: 15.37 min Scan# 2259  
Delta R.T. -0.05 min  
Lab File: BF118778.D  
Acq: 31 Jan 2020 13:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.1  | 18.2  | 27.4  |
| 125     | 10.3  | 8.3   | 12.5  |





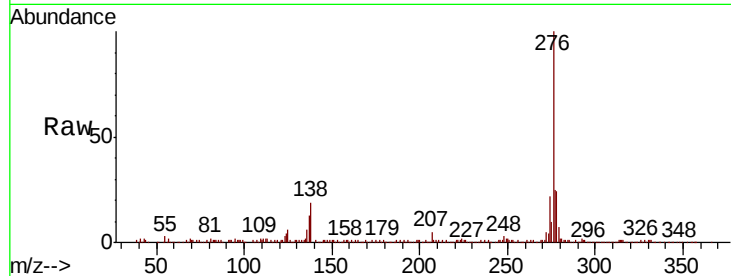
#91  
Dibenzo(a,h)anthracene  
Concen: 2.328 ng  
RT: 16.88 min Scan# 2515  
Delta R.T. -0.09 min  
Lab File: BF118778.D  
Acq: 31 Jan 2020 13:33

Instrument :  
BNA\_F  
ClientSampleId :  
RAINEY-PARK-BH-06-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 0.0   | 11.8  | 17.6  |
| 279     | 27.3  | 19.1  | 28.7  |

Manual Integrations  
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2/3/2020 4:10:20 PM

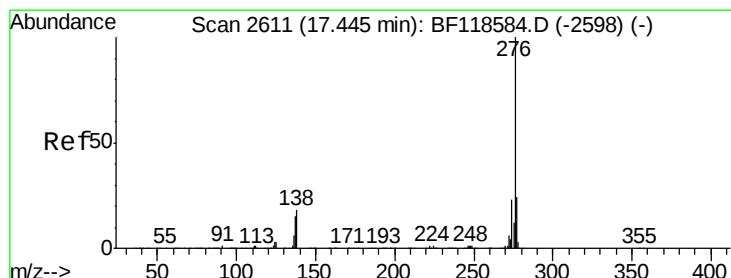
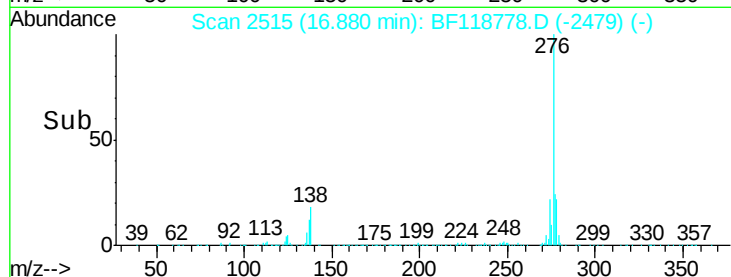
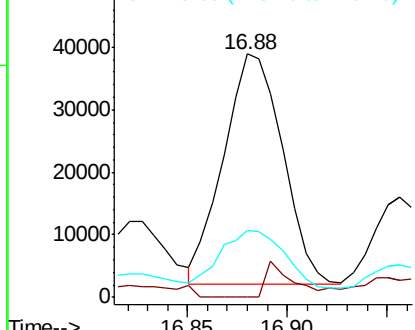


Abundance

Ion 278.00 (277.70 to 278.70): E

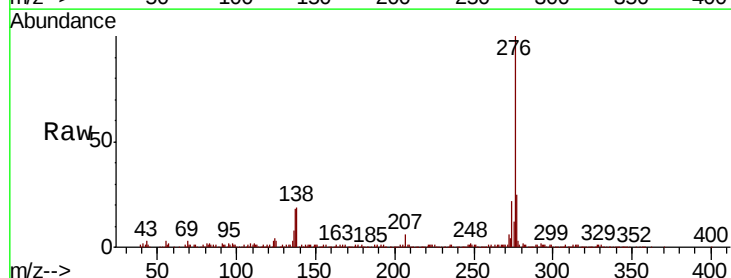
Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#92  
Benzo(g,h,i)perylene  
Concen: 9.777 ng  
RT: 17.31 min Scan# 2588  
Delta R.T. -0.08 min  
Lab File: BF118778.D  
Acq: 31 Jan 2020 13:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.8  | 19.0  | 28.6  |
| 138     | 19.3  | 15.4  | 23.2  |



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

