

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF040620\  
 Data File : BF119821.D  
 Acq On : 7 Apr 2020 14:49  
 Operator : MA/SJ  
 Sample : L2135-03  
 Misc :  
 ALS Vial : 54 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-2E-(0-2)

Manual Integrations  
 APPROVED

mohammad  
 4/8/2020 8:13:13 AM

Quant Time: Apr 07 15:33:50 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF031820.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 06 11:15:16 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min)    |
|-----------------------------|-------|------|----------|--------|-------|-------------|
| 1) 1,4-Dichlorobenzene-d4   | 6.79  | 152  | 127997   | 20.00  | ng    | 0.00        |
| 21) Naphthalene-d8          | 8.07  | 136  | 535610   | 20.00  | ng    | 0.00        |
| 39) Acenaphthene-d10        | 9.83  | 164  | 202278   | 20.00  | ng    | 0.00        |
| 64) Phenanthrene-d10        | 11.32 | 188  | 443740   | 20.00  | ng    | 0.00        |
| 76) Chrysene-d12            | 13.97 | 240  | 229521   | 20.00  | ng    | 0.01        |
| 87) Perylene-d12            | 15.42 | 264  | 203548   | 20.00  | ng    | 0.02        |
| System Monitoring Compounds |       |      |          |        |       |             |
| 5) 2-Fluorophenol           | 5.40  | 112  | 960070   | 119.40 | ng    | 0.02        |
| 7) Phenol-d6                | 6.43  | 99   | 1409786  | 137.26 | ng    | 0.01        |
| 23) Nitrobenzene-d5         | 7.35  | 82   | 846592   | 85.90  | ng    | 0.00        |
| 42) 2,4,6-Tribromophenol    | 10.63 | 330  | 266838   | 127.87 | ng    | 0.00        |
| 45) 2-Fluorobiphenyl        | 9.16  | 172  | 1439578  | 105.43 | ng    | 0.00        |
| 79) Terphenyl-d14           | 12.92 | 244  | 1265559  | 108.03 | ng    | 0.01        |
| Target Compounds            |       |      |          |        |       |             |
| 50) Dimethylphthalate       | 9.55  | 163  | 163072   | 11.350 | ng    | Qvalue # 98 |
| 52) Acenaphthene            | 9.87  | 154  | 32103    | 2.541  | ng    | 96          |
| 58) Fluorene                | 10.38 | 166  | 46185    | 3.448  | ng    | # 95        |
| 71) Phenanthrene            | 11.34 | 178  | 368915   | 16.033 | ng    | 97          |
| 72) Anthracene              | 11.40 | 178  | 128701   | 5.504  | ng    | 97          |
| 75) Fluoranthene            | 12.54 | 202  | 430441   | 17.286 | ng    | 97          |
| 78) Pyrene                  | 12.77 | 202  | 388280   | 20.613 | ng    | 98          |
| 81) Benzo(a)anthracene      | 13.96 | 228  | 108227   | 7.251  | ng    | # 95        |
| 83) Chrysene                | 13.99 | 228  | 98652    | 6.404  | ng    | # 92        |
| 88) Benzo(b)fluoranthene    | 15.00 | 252  | 75606m   | 5.561  | ng    |             |
| 89) Benzo(k)fluoranthene    | 15.03 | 252  | 28221m   | 2.180  | ng    |             |
| 90) Benzo(a)pyrene          | 15.36 | 252  | 56218    | 4.550  | ng    | # 76        |

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

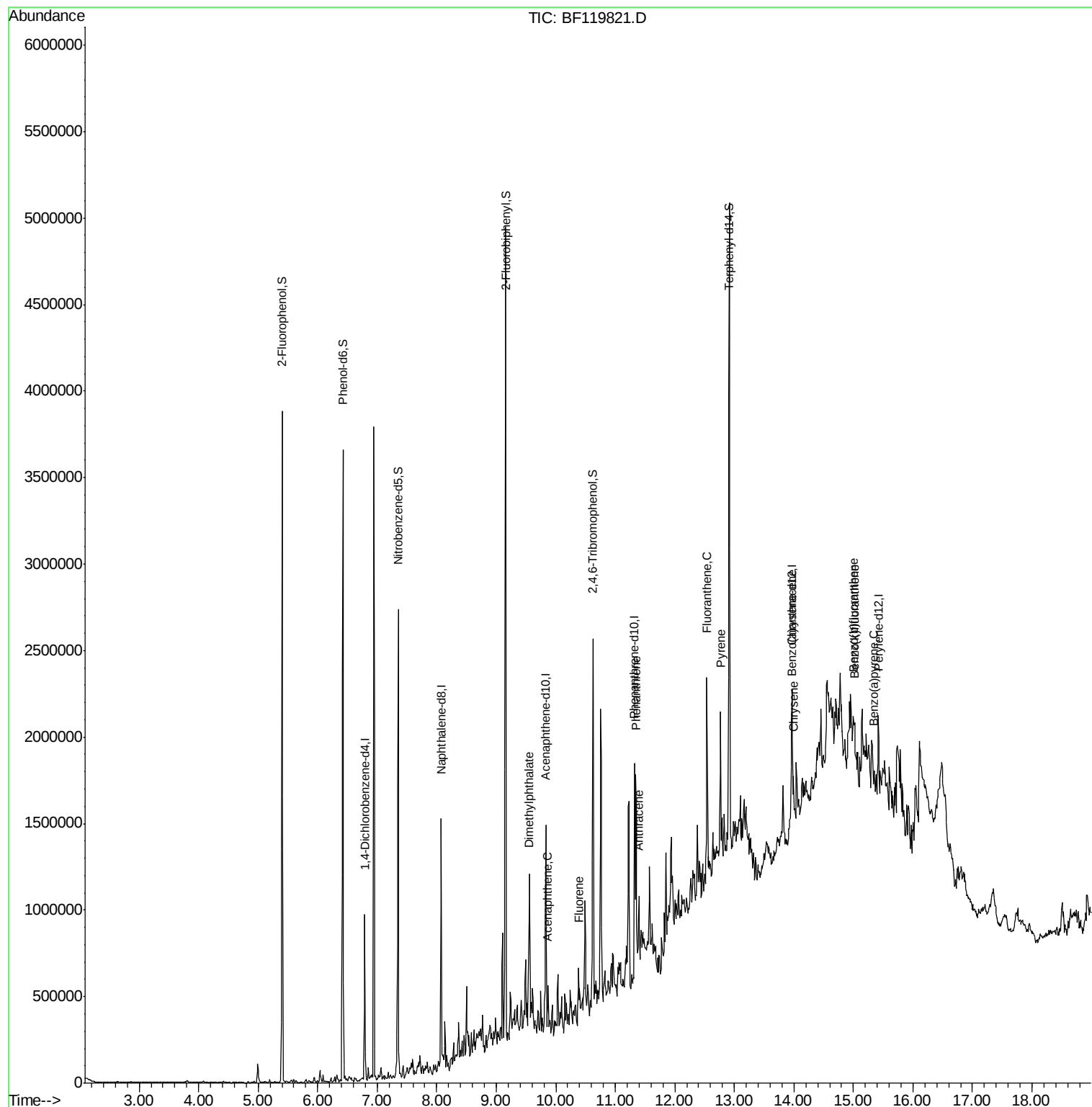
Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF040620\  
Data File : BF119821.D  
Acq On : 7 Apr 2020 14:49  
Operator : MA/SJ  
Sample : L2135-03  
Misc :  
ALS Vial : 54 Sample Multiplier: 1

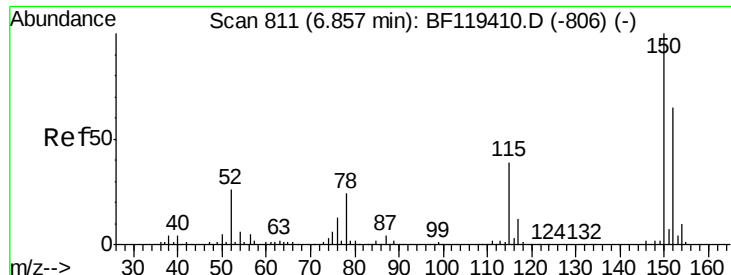
Instrument :  
BNA\_F  
ClientSampleId :  
SB-2E-(0-2)

Manual Integrations  
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Quant Time: Apr 07 15:33:50 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF031820.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Apr 06 11:15:16 2020  
Response via : Initial Calibration





#1

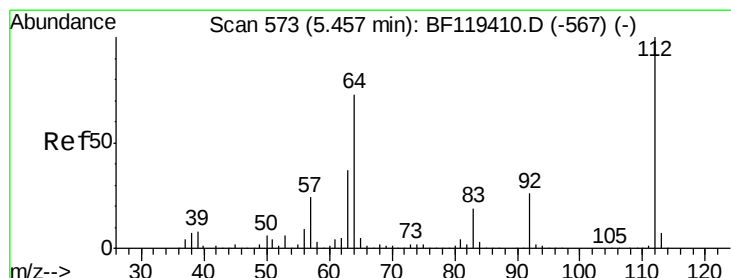
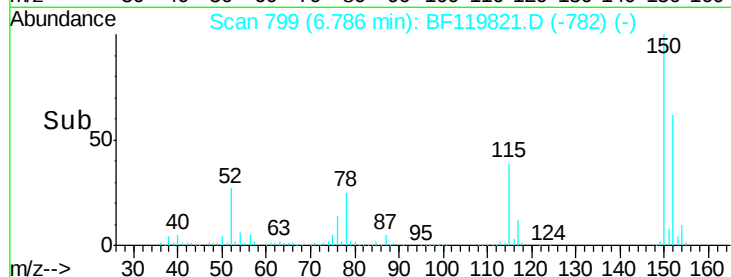
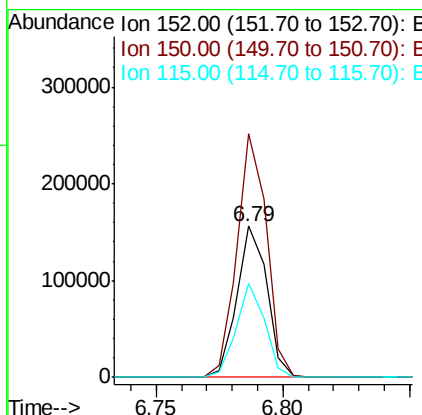
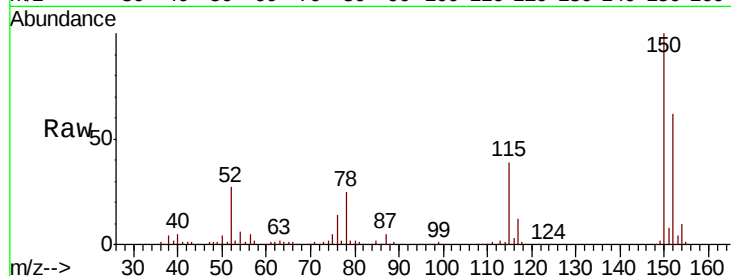
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.79 min Scan# 799  
Delta R.T. -0.00 min  
Lab File: BF119821.D  
Acq: 7 Apr 2020 14:49

Instrument :  
BNA\_F  
ClientSampleId :  
SB-2E-(0-2)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 161.2 | 124.5 | 186.7 |
| 115     | 62.3  | 49.6  | 74.4  |

Manual Integrations  
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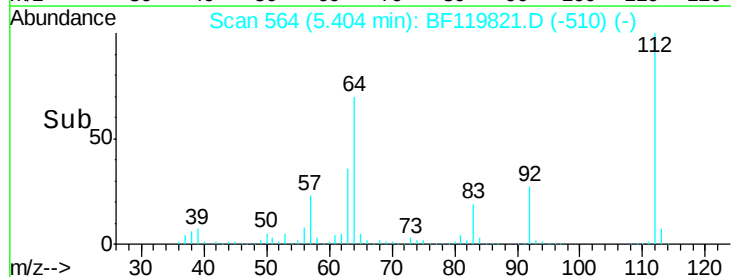
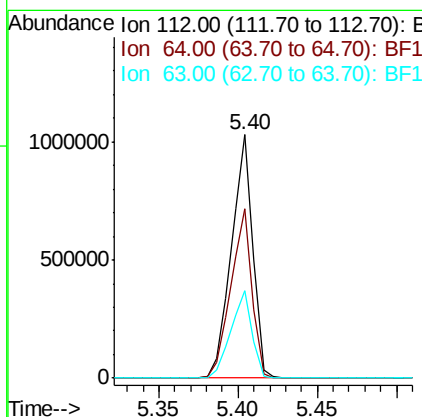
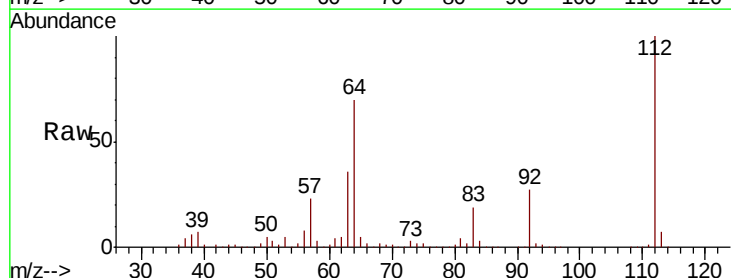
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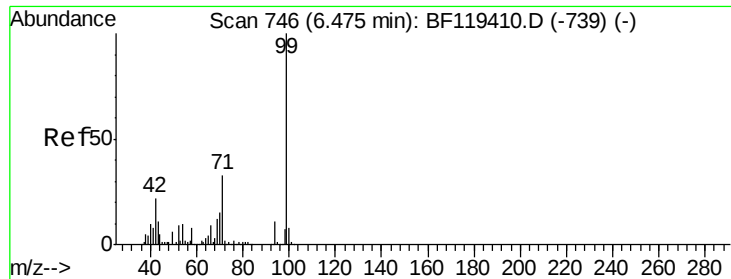


#5

2-Fluorophenol  
Concen: 119.404 ng  
RT: 5.40 min Scan# 564  
Delta R.T. 0.02 min  
Lab File: BF119821.D  
Acq: 7 Apr 2020 14:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 69.6  | 56.7  | 85.1  |
| 63      | 36.0  | 29.5  | 44.3  |





#7

Phenol-d6

Concen: 137.257 ng

RT: 6.43 min Scan# 738

Delta R.T. 0.01 min

Lab File: BF119821.D

Acq: 7 Apr 2020 14:49

Instrument :

BNA\_F

ClientSampleId :

SB-2E-(0-2)

Tot Ion: 99 Resp: 1409786

Ion Ratio Lower Upper

99 100

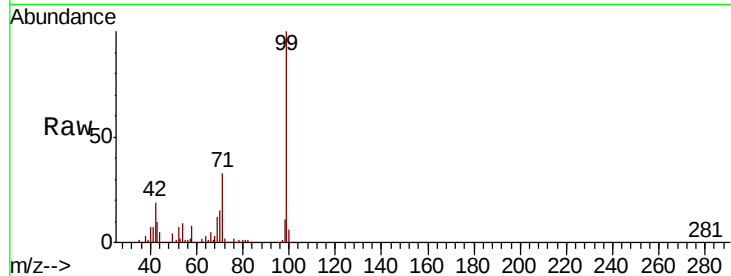
42 19.0 16.6 24.8

71 32.7 26.4 39.6

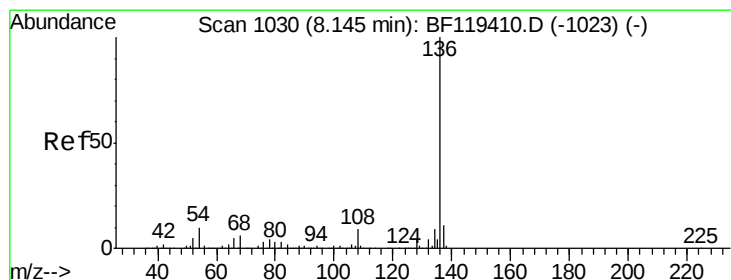
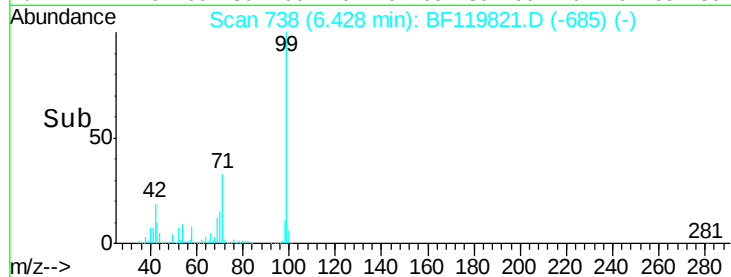
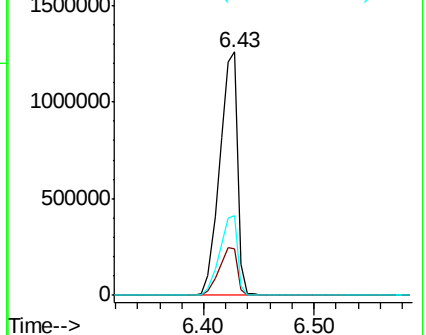
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Abundance Ion 99.00 (98.70 to 99.70): BF1  
Ion 42.00 (41.70 to 42.70): BF1  
Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.07 min Scan# 1018

Delta R.T. -0.00 min

Lab File: BF119821.D

Acq: 7 Apr 2020 14:49

Tgt Ion: 136 Resp: 535610

Ion Ratio Lower Upper

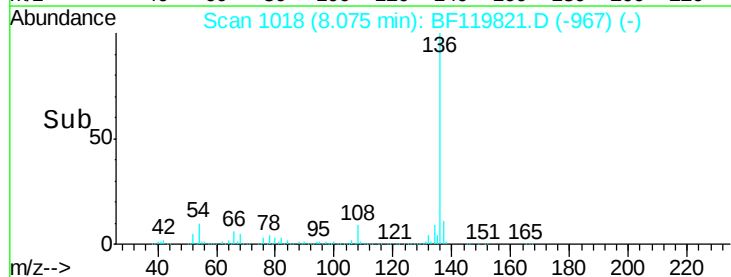
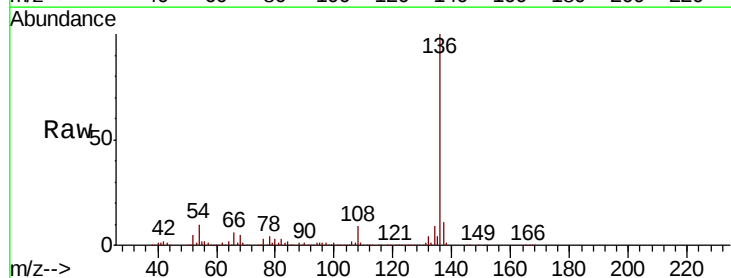
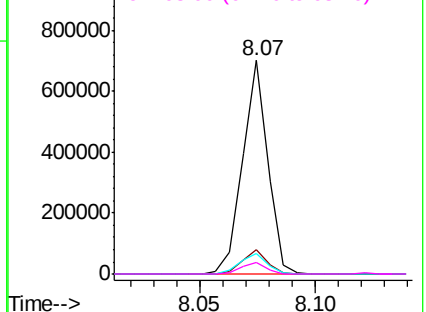
136 100

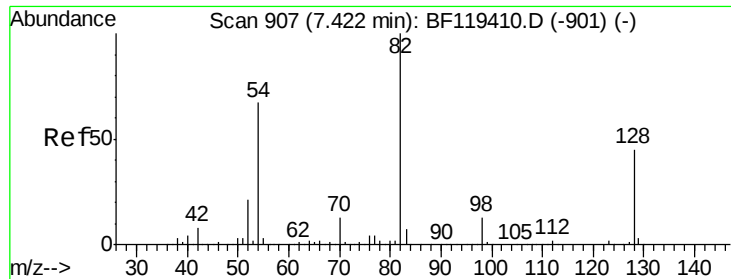
137 11.2 8.7 13.1

54 9.9 9.1 13.7

68 5.3 4.6 6.8

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





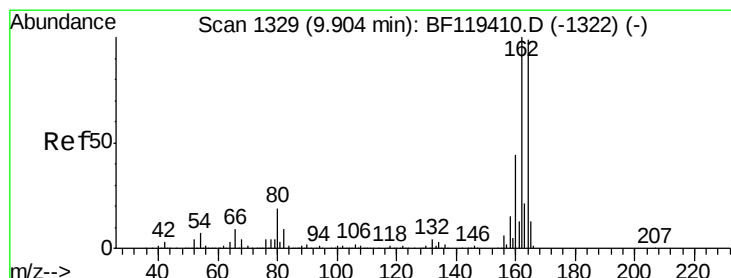
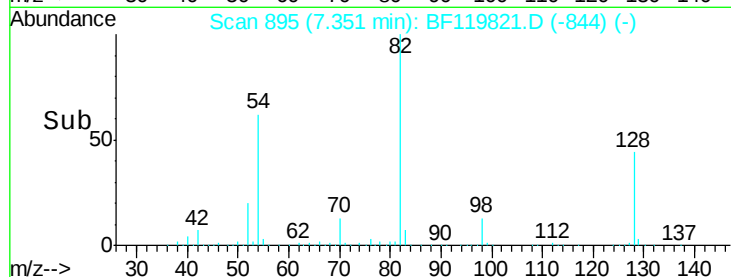
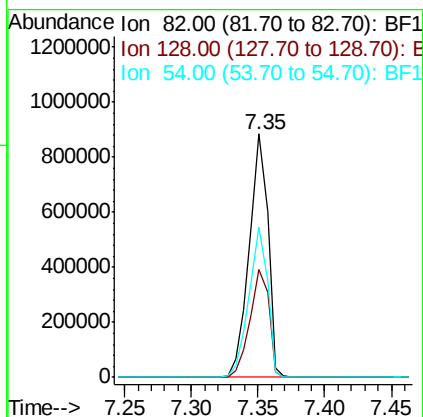
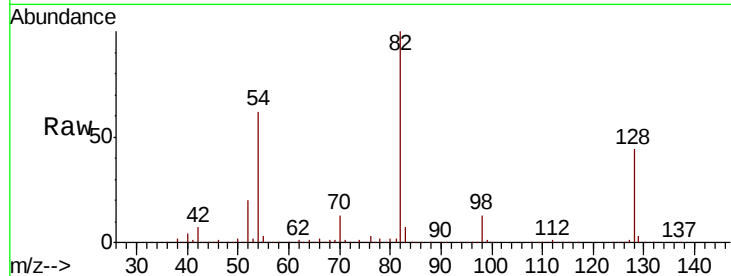
#23  
Nitrobenzene-d5  
Concen: 85.903 ng  
RT: 7.35 min Scan# 895  
Delta R.T. -0.00 min  
Lab File: BF119821.D  
Acq: 7 Apr 2020 14:49

Instrument :  
BNA\_F  
ClientSampleId :  
SB-2E-(0-2)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 44.5  | 36.3  | 54.5  |
| 54      | 61.9  | 50.6  | 75.8  |

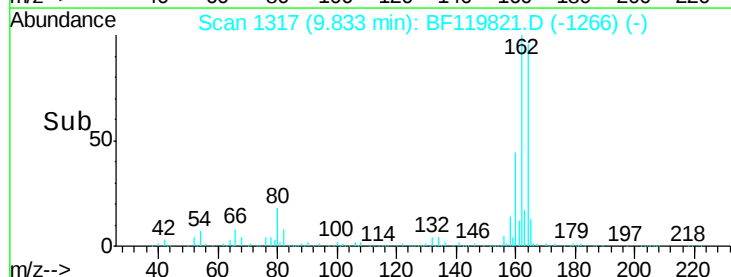
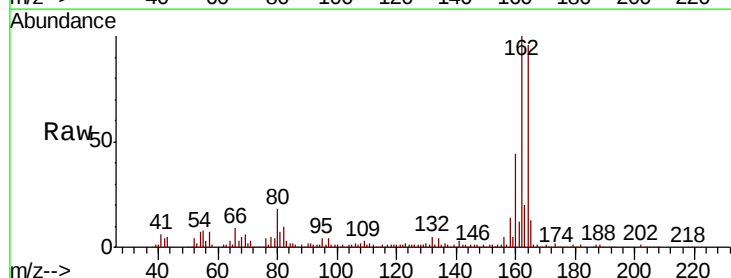
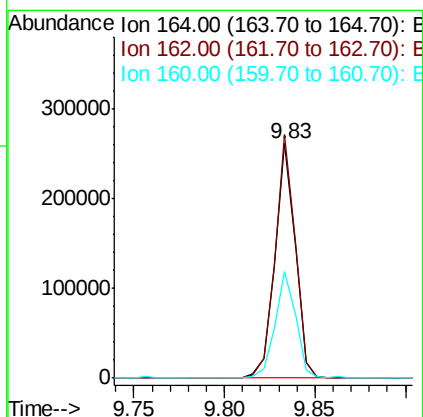
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#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.83 min Scan# 1317  
Delta R.T. -0.00 min  
Lab File: BF119821.D  
Acq: 7 Apr 2020 14:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 103.9 | 80.6  | 121.0 |
| 160     | 45.4  | 35.7  | 53.5  |





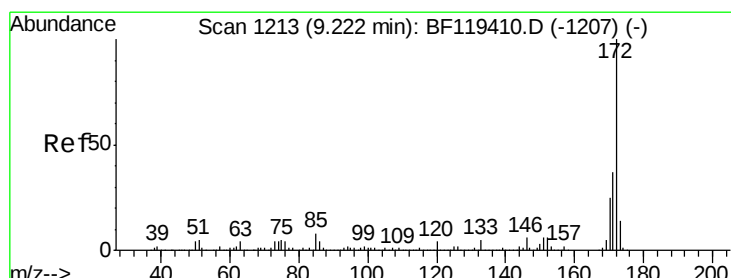
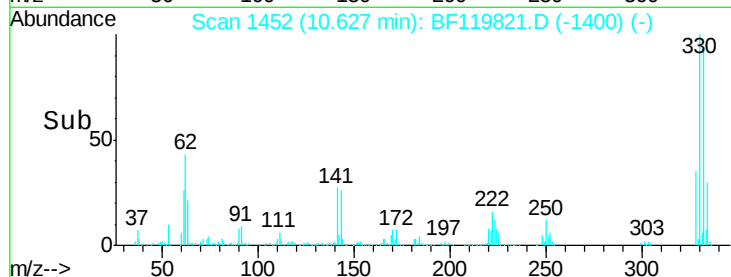
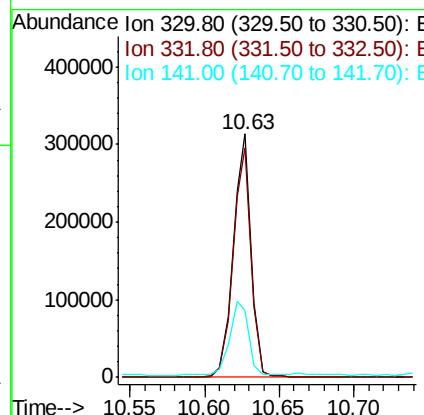
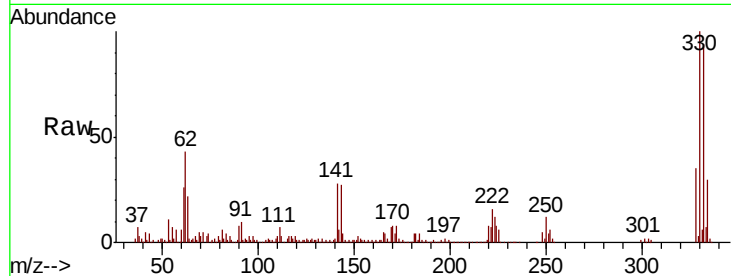
#42  
 2,4,6-Tribromophenol  
 Concen: 127.868 ng  
 RT: 10.63 min Scan# 1452  
 Delta R.T. 0.01 min  
 Lab File: BF119821.D  
 Acq: 7 Apr 2020 14:49

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-2E-(0-2)

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 266838 |       |       |
| 332     | 95.3  |        | 75.7  | 113.5 |
| 141     | 33.5  |        | 25.4  | 38.0  |

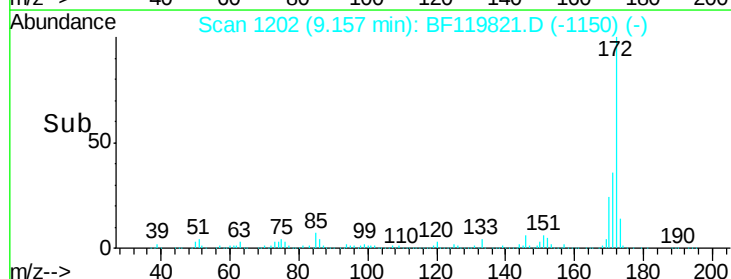
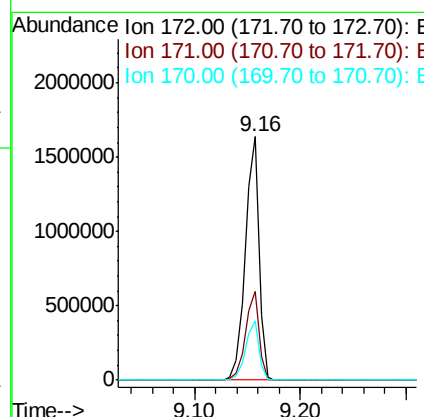
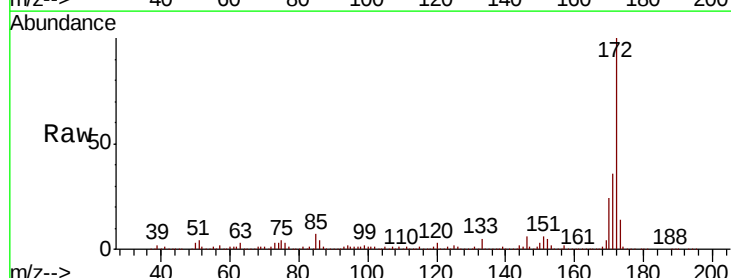
Manual Integrations  
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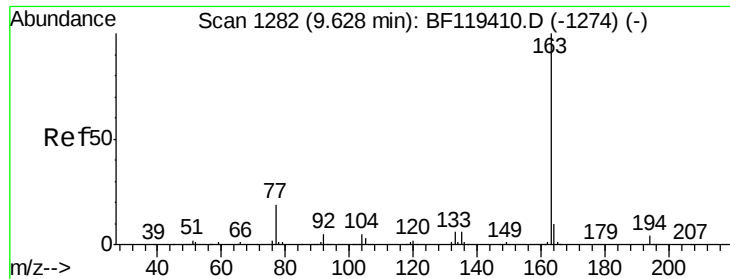
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#45  
 2-Fluorobiphenyl  
 Concen: 105.434 ng  
 RT: 9.16 min Scan# 1202  
 Delta R.T. 0.01 min  
 Lab File: BF119821.D  
 Acq: 7 Apr 2020 14:49

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 172     | 100   | 1439578 |       |       |
| 171     | 36.2  |         | 29.6  | 44.4  |
| 170     | 24.4  |         | 20.2  | 30.2  |





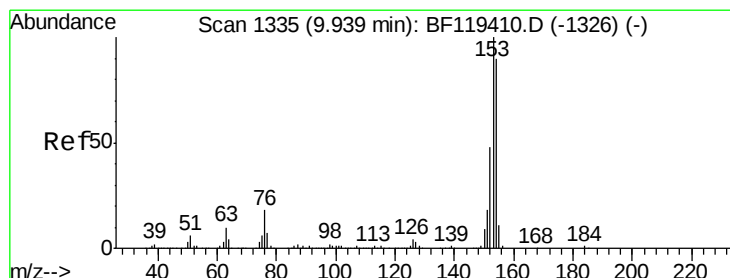
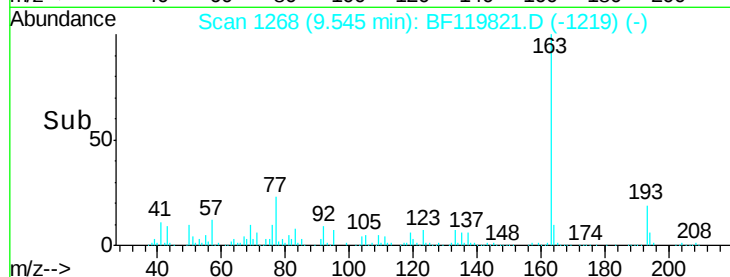
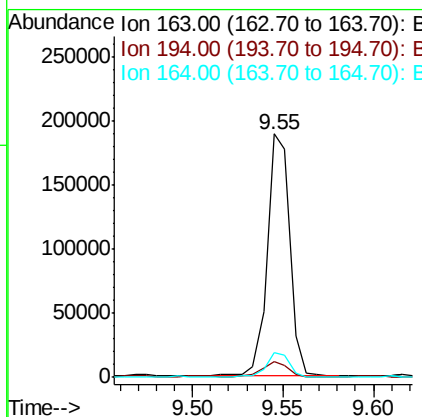
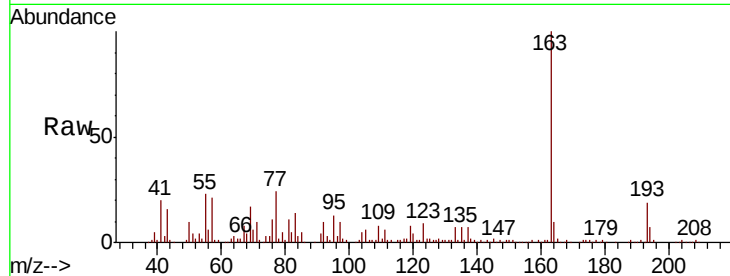
#50  
Dimethylphthalate  
Concen: 11.350 ng  
RT: 9.55 min Scan# 1268  
Delta R.T. -0.01 min  
Lab File: BF119821.D  
Acq: 7 Apr 2020 14:49

Instrument :  
BNA\_F  
ClientSampleId :  
SB-2E-(0-2)

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 163     | 100   | 163072 |       |       |
| 194     | 6.6   | 3.1    | 4.7#  |       |
| 164     | 10.3  | 8.2    | 12.2  |       |

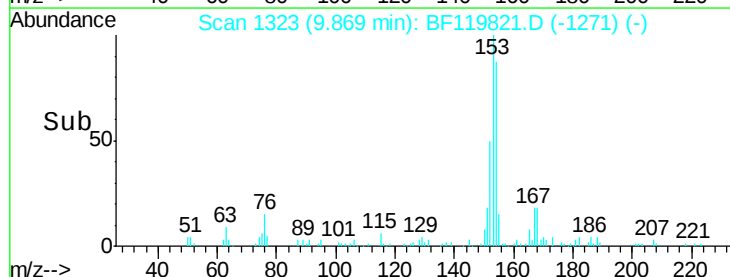
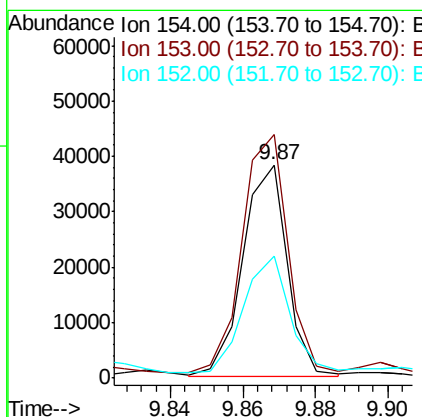
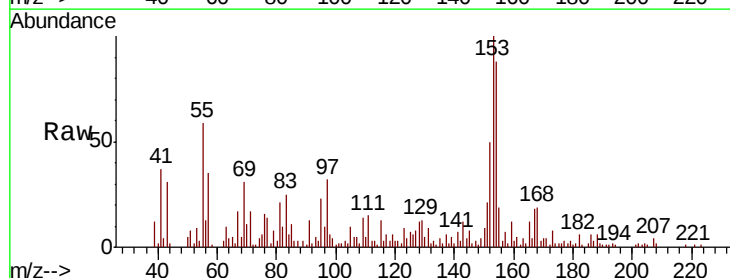
Manual Integrations  
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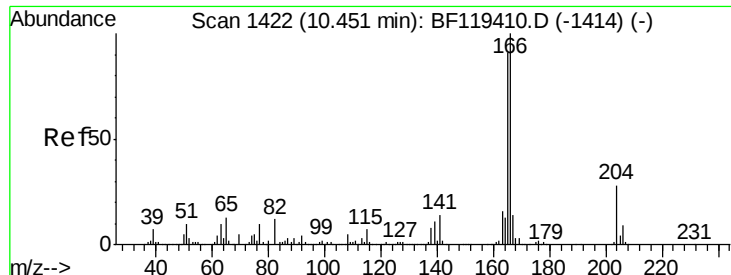
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4/8/2020 8:13:13 AM



#52  
Acenaphthene  
Concen: 2.541 ng  
RT: 9.87 min Scan# 1323  
Delta R.T. 0.01 min  
Lab File: BF119821.D  
Acq: 7 Apr 2020 14:49

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 154     | 100   | 32103 |       |       |
| 153     | 114.1 | 88.1  | 132.1 |       |
| 152     | 57.3  | 43.0  | 64.4  |       |





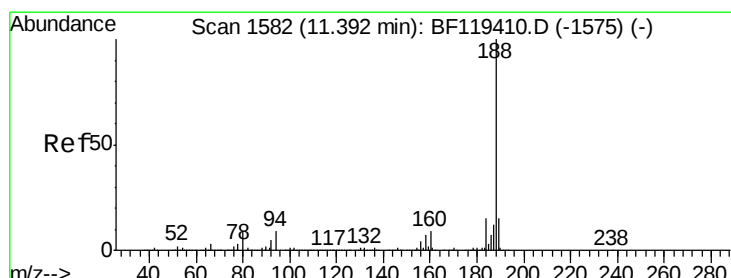
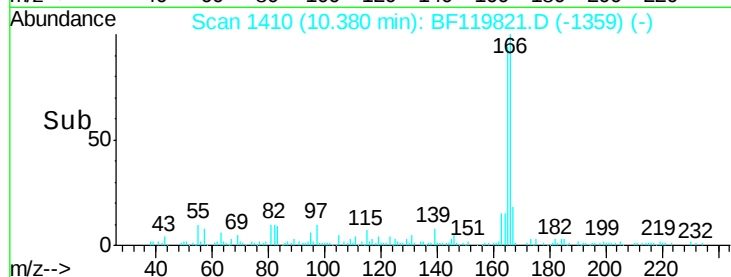
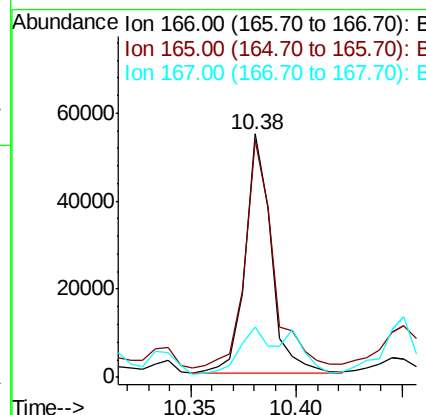
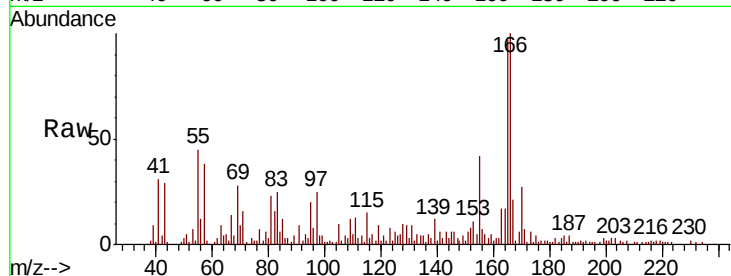
#58  
 Fluorene  
 Concen: 3.448 ng  
 RT: 10.38 min Scan# 1410  
 Delta R.T. -0.00 min  
 Lab File: BF119821.D  
 Acq: 7 Apr 2020 14:49

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-2E-(0-2)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 97.4  | 75.4  | 113.2 |
| 167     | 20.5  | 11.2  | 16.8# |

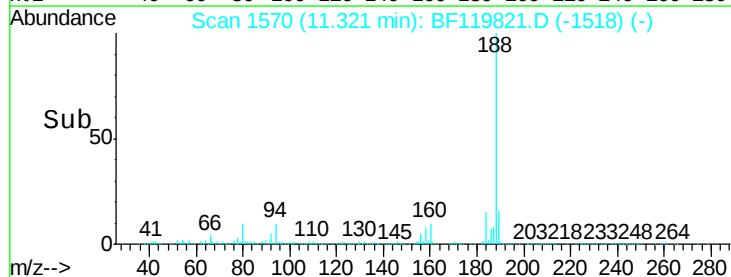
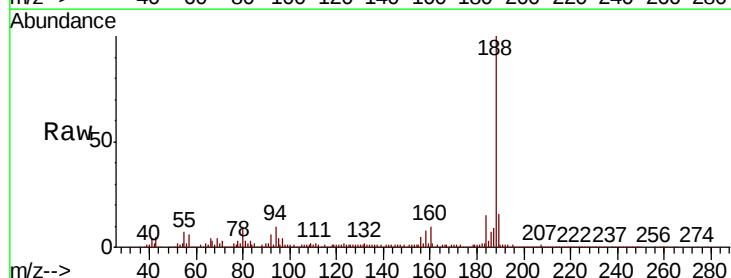
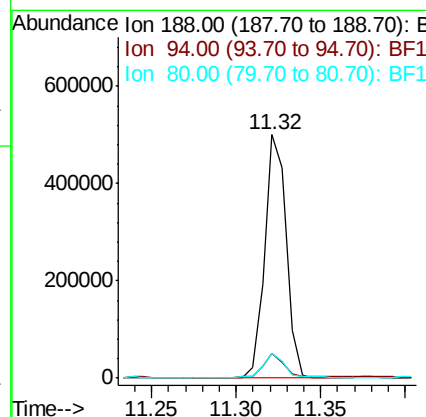
Manual Integrations  
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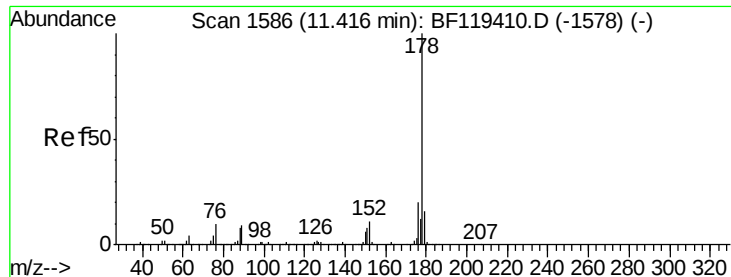
mohammad  
 4/8/2020 8:13:13 AM



#64  
 Phenanthrene-d10  
 Concen: 20.000 ng  
 RT: 11.32 min Scan# 1570  
 Delta R.T. 0.01 min  
 Lab File: BF119821.D  
 Acq: 7 Apr 2020 14:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 9.9   | 7.5   | 11.3  |
| 80      | 10.2  | 9.0   | 13.4  |





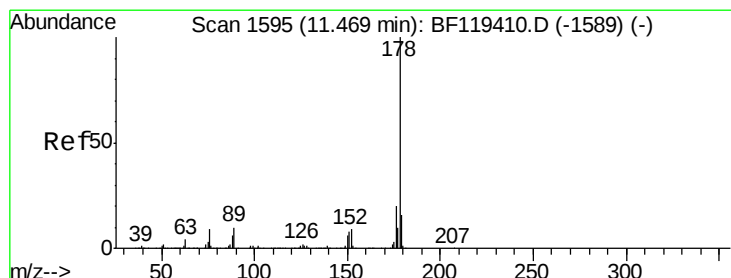
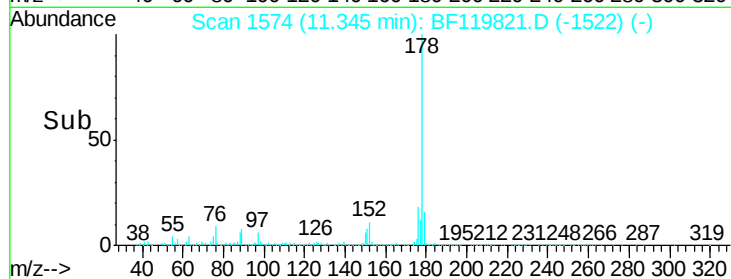
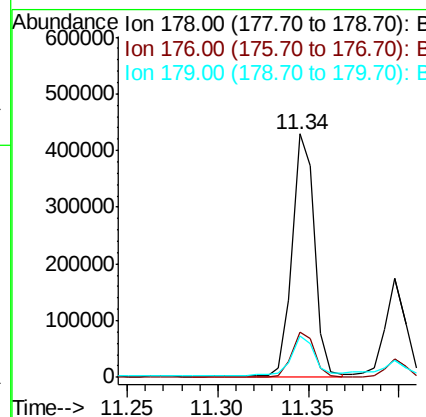
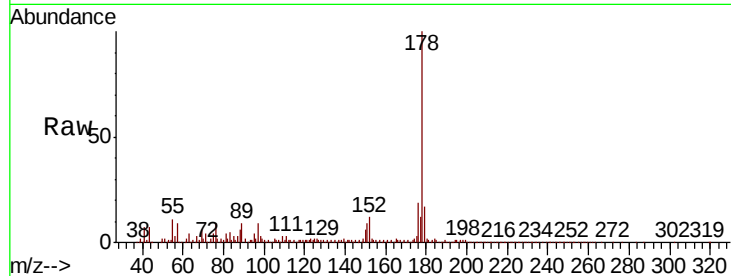
#71  
Phenanthrene  
Concen: 16.033 ng  
RT: 11.34 min Scan# 1574  
Delta R.T. 0.01 min  
Lab File: BF119821.D  
Acq: 7 Apr 2020 14:49

Instrument :  
BNA\_F  
ClientSampleId :  
SB-2E-(0-2)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.6  | 16.2  | 24.4  |
| 179     | 17.0  | 13.2  | 19.8  |

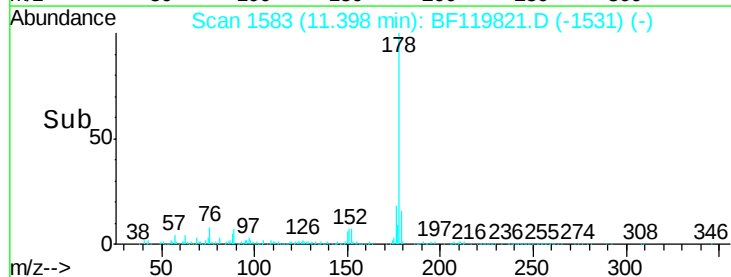
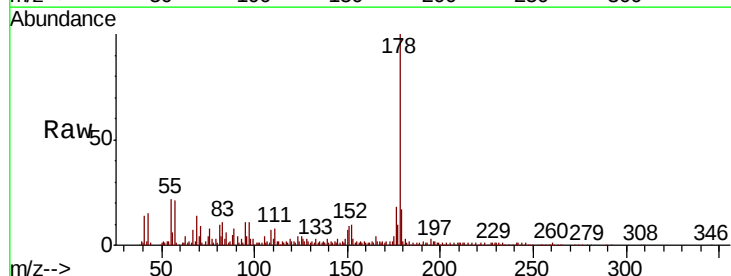
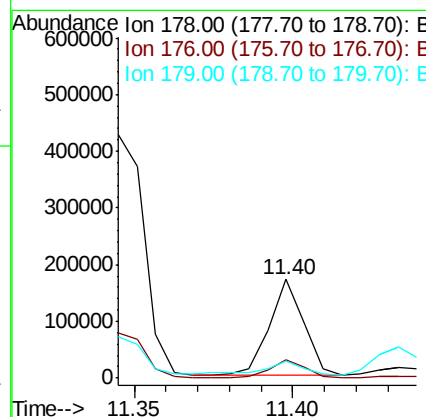
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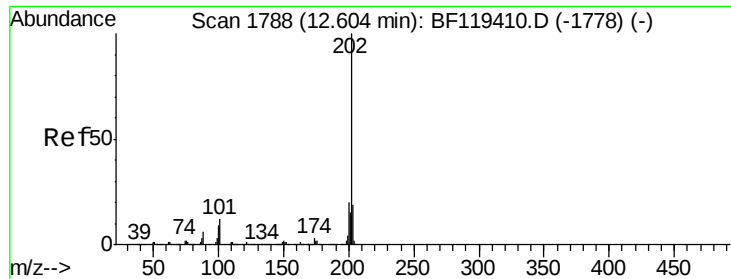
mohammad  
4/8/2020 8:13:13 AM



#72  
Anthracene  
Concen: 5.504 ng  
RT: 11.40 min Scan# 1583  
Delta R.T. 0.01 min  
Lab File: BF119821.D  
Acq: 7 Apr 2020 14:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.0  | 16.1  | 24.1  |
| 179     | 17.1  | 13.0  | 19.4  |





#75

Fluoranthene

Concen: 17.286 ng

RT: 12.54 min Scan# 1777

Delta R.T. 0.01 min

Lab File: BF119821.D

Acq: 7 Apr 2020 14:49

Instrument :

BNA\_F

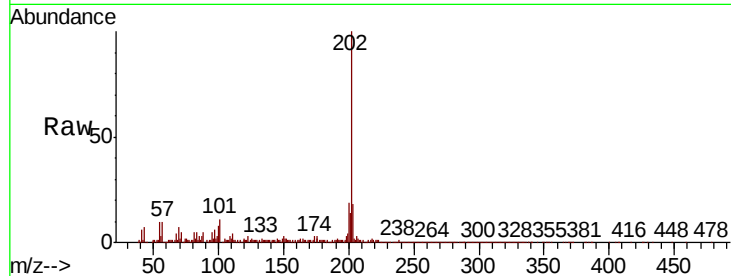
ClientSampleId :

SB-2E-(0-2)

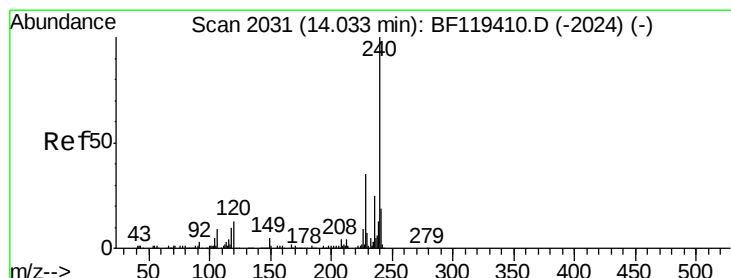
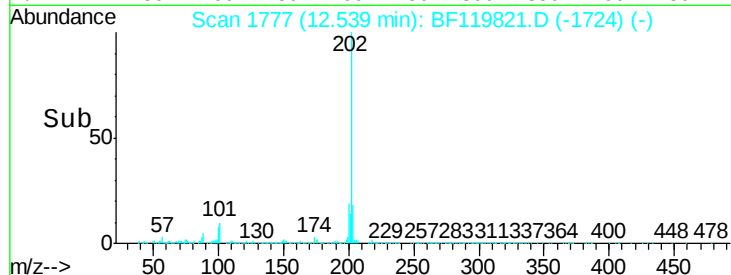
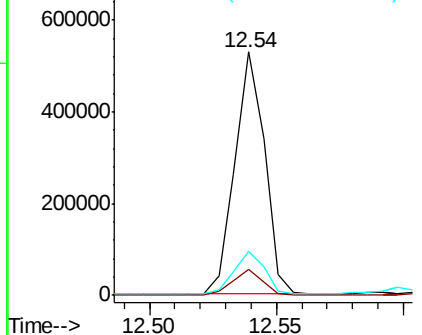
| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 430441 |       |       |
| 101     | 10.6  | 0.0    | 32.2  |       |
| 203     | 17.9  | 0.0    | 38.8  |       |

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



#76

Chrysene-d12

Concen: 20.000 ng

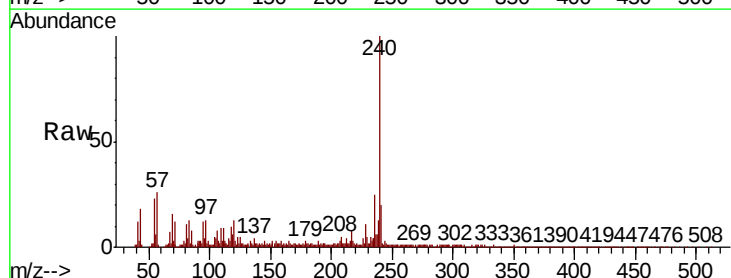
RT: 13.97 min Scan# 2020

Delta R.T. 0.01 min

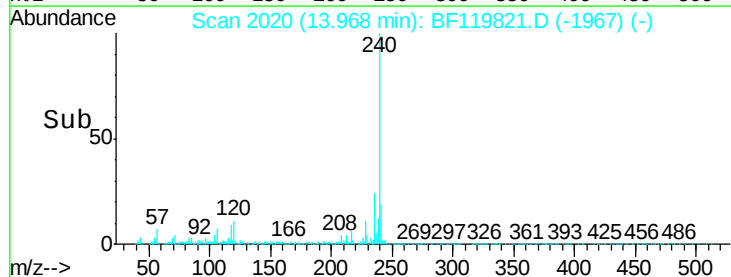
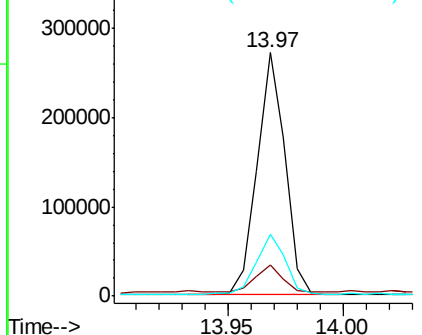
Lab File: BF119821.D

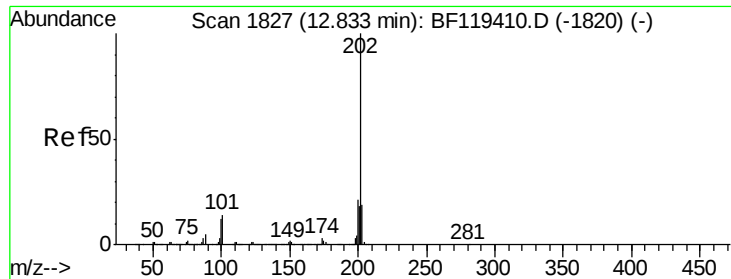
Acq: 7 Apr 2020 14:49

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 229521 |       |       |
| 120     | 12.7  | 10.6   | 15.8  |       |
| 236     | 25.4  | 20.2   | 30.2  |       |



Abundance Ion 240.00 (239.70 to 240.70): E  
Ion 120.00 (119.70 to 120.70): E  
Ion 236.00 (235.70 to 236.70): E





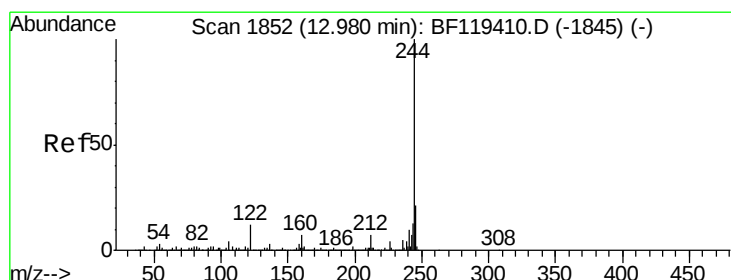
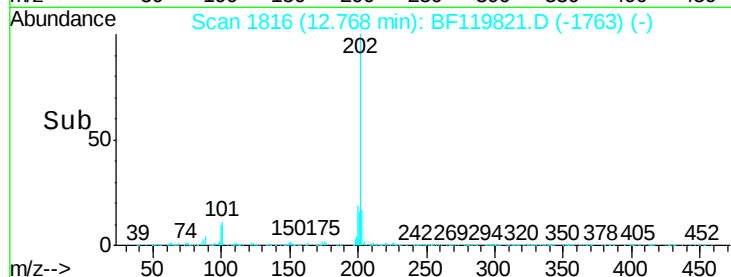
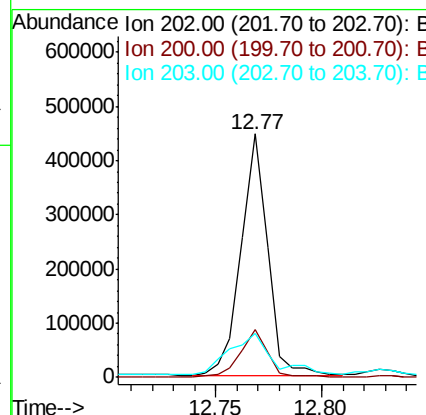
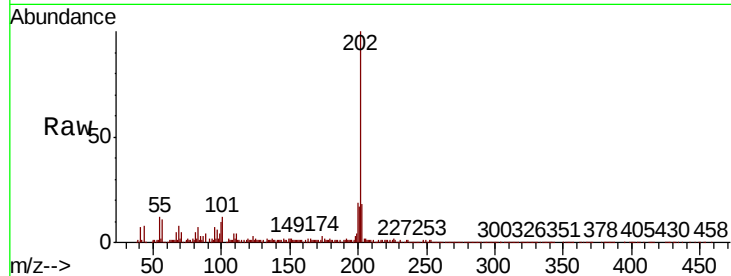
#78  
Pvrene  
Concen: 20.613 ng  
RT: 12.77 min Scan# 1816  
Delta R.T. 0.01 min  
Lab File: BF119821.D  
Acq: 7 Apr 2020 14:49

Instrument :  
BNA\_F  
ClientSampleId :  
SB-2E-(0-2)

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 200     | 19.5  | 16.8       | 25.2  |
| 203     | 18.3  | 15.1       | 22.7  |

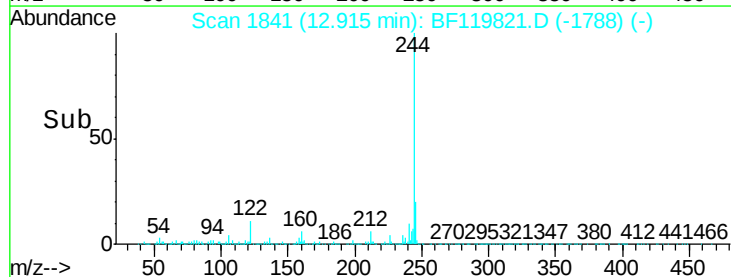
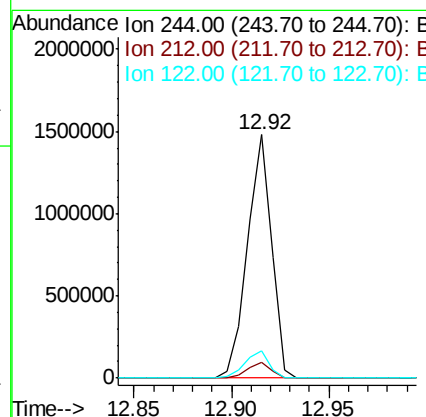
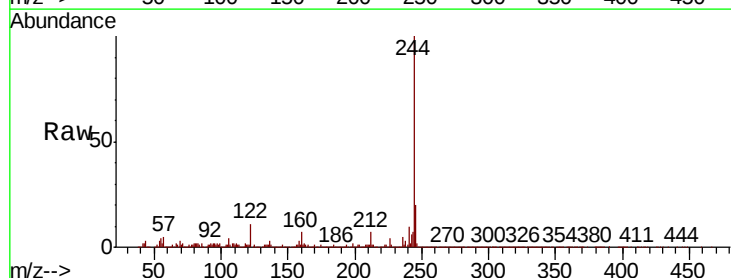
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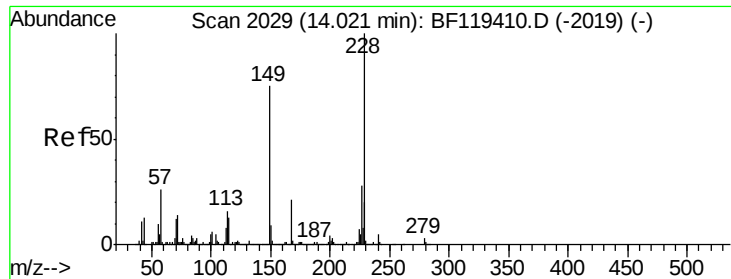
mohammad  
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#79  
Terphenyl-d14  
Concen: 108.029 ng  
RT: 12.92 min Scan# 1841  
Delta R.T. 0.01 min  
Lab File: BF119821.D  
Acq: 7 Apr 2020 14:49

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 244     | 100   |            |       |
| 212     | 6.5   | 5.8        | 8.8   |
| 122     | 11.0  | 10.3       | 15.5  |





#81

Benzo(a)anthracene

Concen: 7.251 ng

RT: 13.96 min Scan# 2018

Delta R.T. 0.01 min

Lab File: BF119821.D

Acq: 7 Apr 2020 14:49

Instrument :

BNA\_F

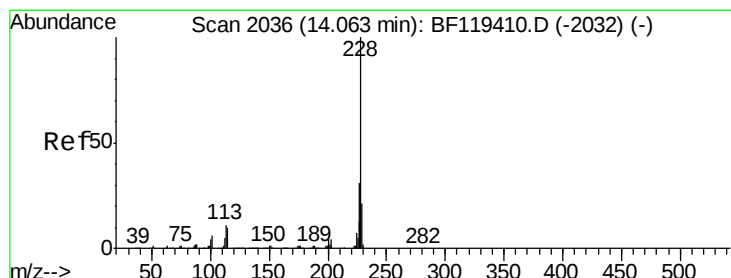
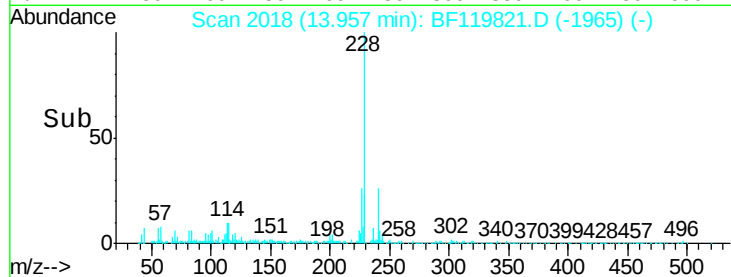
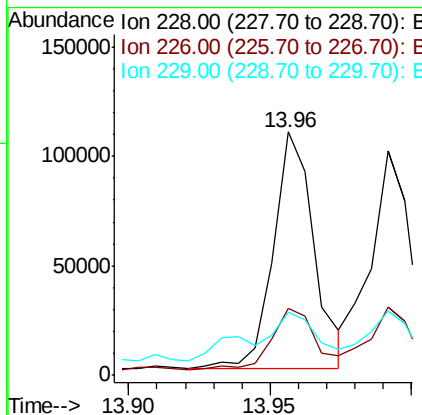
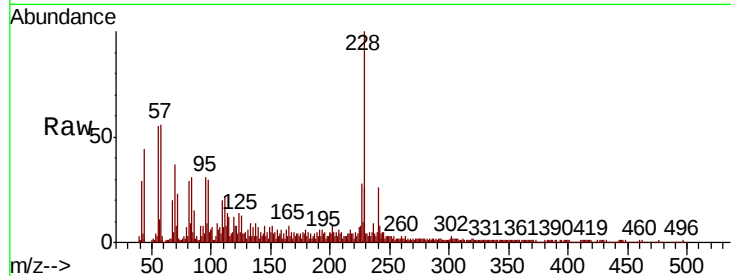
ClientSampleId :

SB-2E-(0-2)

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 108227 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 27.6  | 21.8  | 32.8   |
| 229       | 25.8  | 16.2  | 24.4   |

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#83

Chrysene

Concen: 6.404 ng

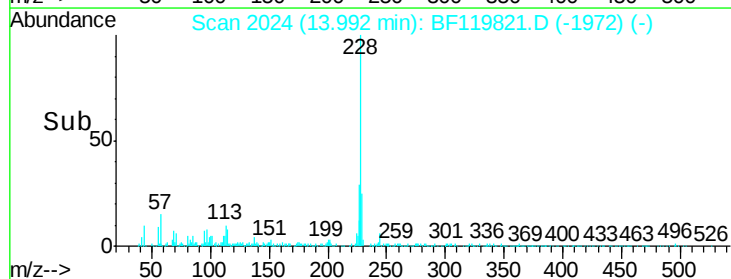
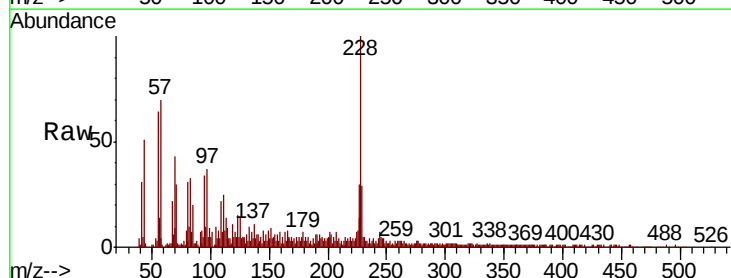
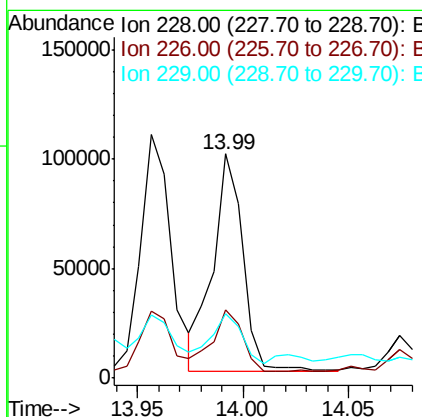
RT: 13.99 min Scan# 2024

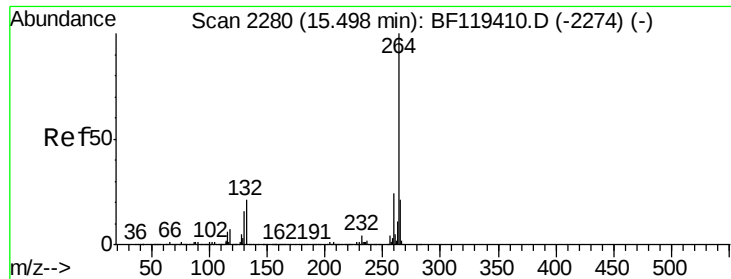
Delta R.T. 0.01 min

Lab File: BF119821.D

Acq: 7 Apr 2020 14:49

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 98652 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 30.3  | 25.4  | 38.0  |
| 229       | 28.9  | 16.6  | 24.8  |





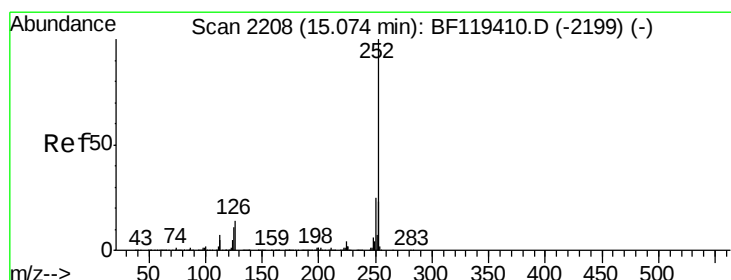
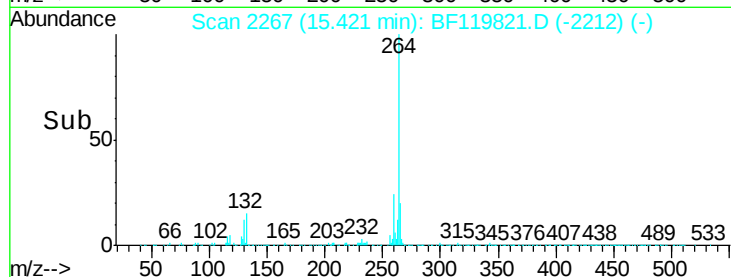
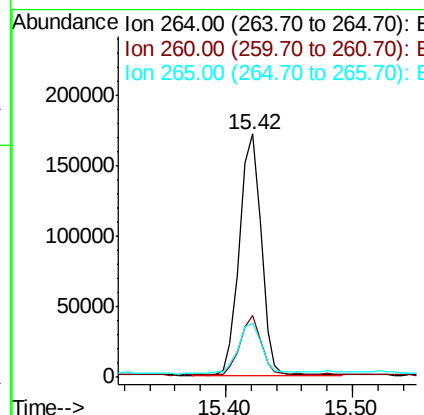
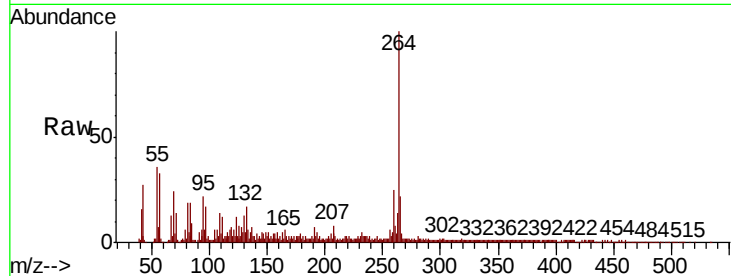
#87  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.42 min Scan# 2267  
Delta R.T. 0.02 min  
Lab File: BF119821.D  
Acq: 7 Apr 2020 14:49

Instrument :  
BNA\_F  
ClientSampleId :  
SB-2E-(0-2)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.2  | 18.7  | 28.1  |
| 265     | 22.2  | 17.7  | 26.5  |

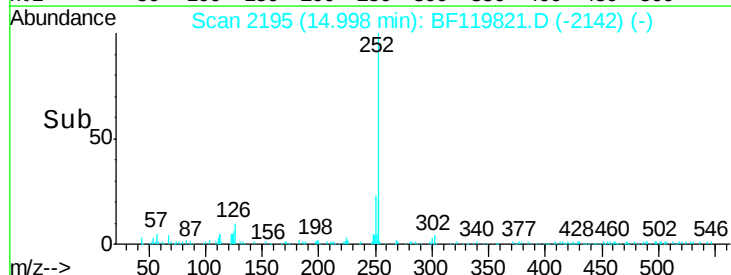
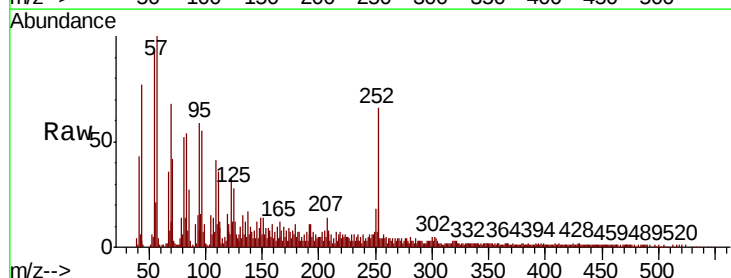
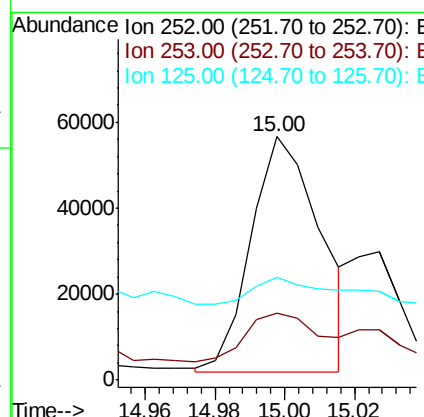
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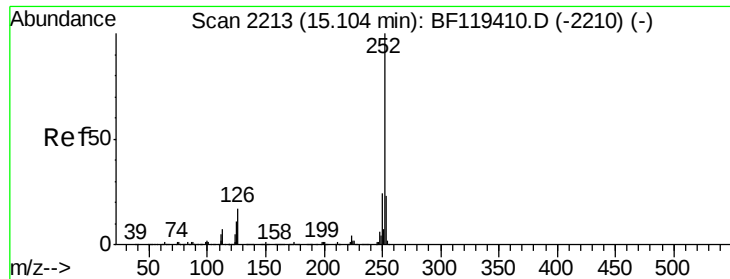
mohammad  
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#88  
Benzo(b)fluoranthene  
Concen: 5.561 ng m  
RT: 15.00 min Scan# 2195  
Delta R.T. 0.01 min  
Lab File: BF119821.D  
Acq: 7 Apr 2020 14:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 27.4  | 17.4  | 26.0# |
| 125     | 42.3  | 7.9   | 11.9# |





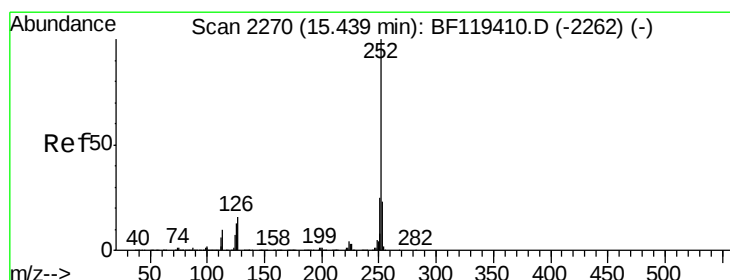
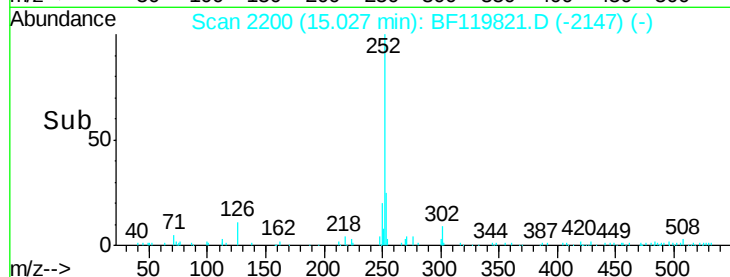
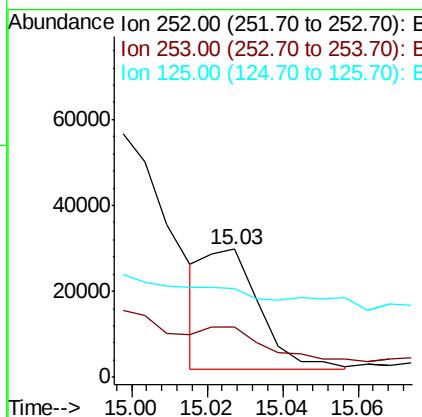
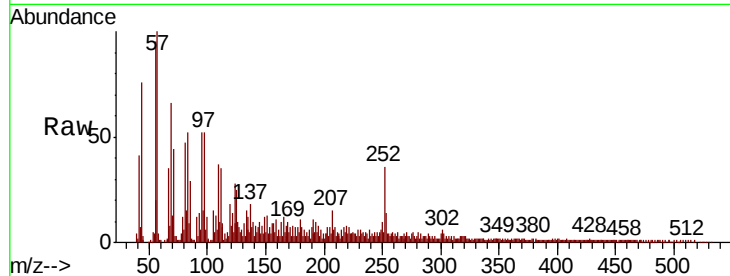
#89  
Benzo(k)fluoranthene  
Concen: 2.180 ng m  
RT: 15.03 min Scan# 2200  
Delta R.T. 0.01 min  
Lab File: BF119821.D  
Acq: 7 Apr 2020 14:49

Instrument :  
BNA\_F  
ClientSampleId :  
SB-2E-(0-2)

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 39.3  | 17.8  | 26.6# |
| 125     | 69.4  | 8.4   | 12.6# |

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#90  
Benzo(a)pyrene  
Concen: 4.550 ng  
RT: 15.36 min Scan# 2256  
Delta R.T. 0.01 min  
Lab File: BF119821.D  
Acq: 7 Apr 2020 14:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.8  | 18.2  | 27.2  |
| 125     | 34.1  | 9.4   | 14.2# |

