

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM111720\  
 Data File : BM027812.D  
 Acq On : 17 Nov 2020 10:14  
 Operator : JU/CG  
 Sample : L4762-03  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0AB8

Manual Integrations  
 APPROVED

mohammad  
 11/19/2020 10:32:40 AM

Quant Time: Nov 17 10:50:07 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM111020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 17 09:19:02 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.38  | 152  | 869      | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 11.21 | 136  | 3568     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.99 | 164  | 5376     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.70 | 188  | 4583m    | 0.40   | ng/ul  | 0.01     |
| 16) Chrysene-d12            | 21.80 | 240  | 8974     | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 24.28 | 264  | 3850m    | 0.40   | ng/ul  | 0.05     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.77 | 152  | 3522m    | 0.53   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.69 | 212  | 3087     | 0.23   | ng/ul  | 0.01     |
| Target Compounds            |       |      |          |        | Ovalue |          |
| 3) Naphthalene              | 11.26 | 128  | 89360    | 7.838  | ng/ul  | 98       |
| 5) 2-Methylnaphthalene      | 12.85 | 142  | 300431   | 37.880 | ng/ul  | 99       |
| 7) Acenaphthylene           | 14.71 | 152  | 18129    | 0.685  | ng/ul# | 1        |
| 8) Acenaphthene             | 15.05 | 153  | 40927    | 2.019  | ng/ul# | 74       |
| 9) Fluorene                 | 16.02 | 166  | 49627    | 2.035  | ng/ul# | 81       |
| 11) Pentachlorophenol       | 17.35 | 266  | 834      | 0.505  | ng/ul# | 79       |
| 12) Phenanthrene            | 17.75 | 178  | 654965   | 43.901 | ng/ul  | 98       |
| 13) Anthracene              | 17.84 | 178  | 56768m   | 3.908  | ng/ul  |          |
| 15) Fluoranthene            | 19.72 | 202  | 67969    | 3.980  | ng/ul  | 93       |
| 17) Pyrene                  | 20.08 | 202  | 257682   | 6.475  | ng/ul# | 96       |
| 18) Benzo(a)anthracene      | 21.80 | 228  | 65371    | 1.823  | ng/ul# | 37       |
| 19) Chrysene                | 21.85 | 228  | 200678   | 5.493  | ng/ul# | 75       |
| 21) Benzo(b)fluoranthene    | 23.53 | 252  | 65758m   | 3.732  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 23.56 | 252  | 19487m   | 1.127  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 24.17 | 252  | 30338    | 1.958  | ng/ul# | 9        |
| 24) Indeno(1,2,3-cd)pyrene  | 26.82 | 276  | 19302    | 1.094  | ng/ul# | 80       |
| 25) Dibenzo(a,h)anthracene  | 26.82 | 278  | 9558     | 0.648  | ng/ul# | 1        |
| 26) Benzo(g,h,i)perylene    | 27.61 | 276  | 36830    | 2.466  | ng/ul# | 61       |

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

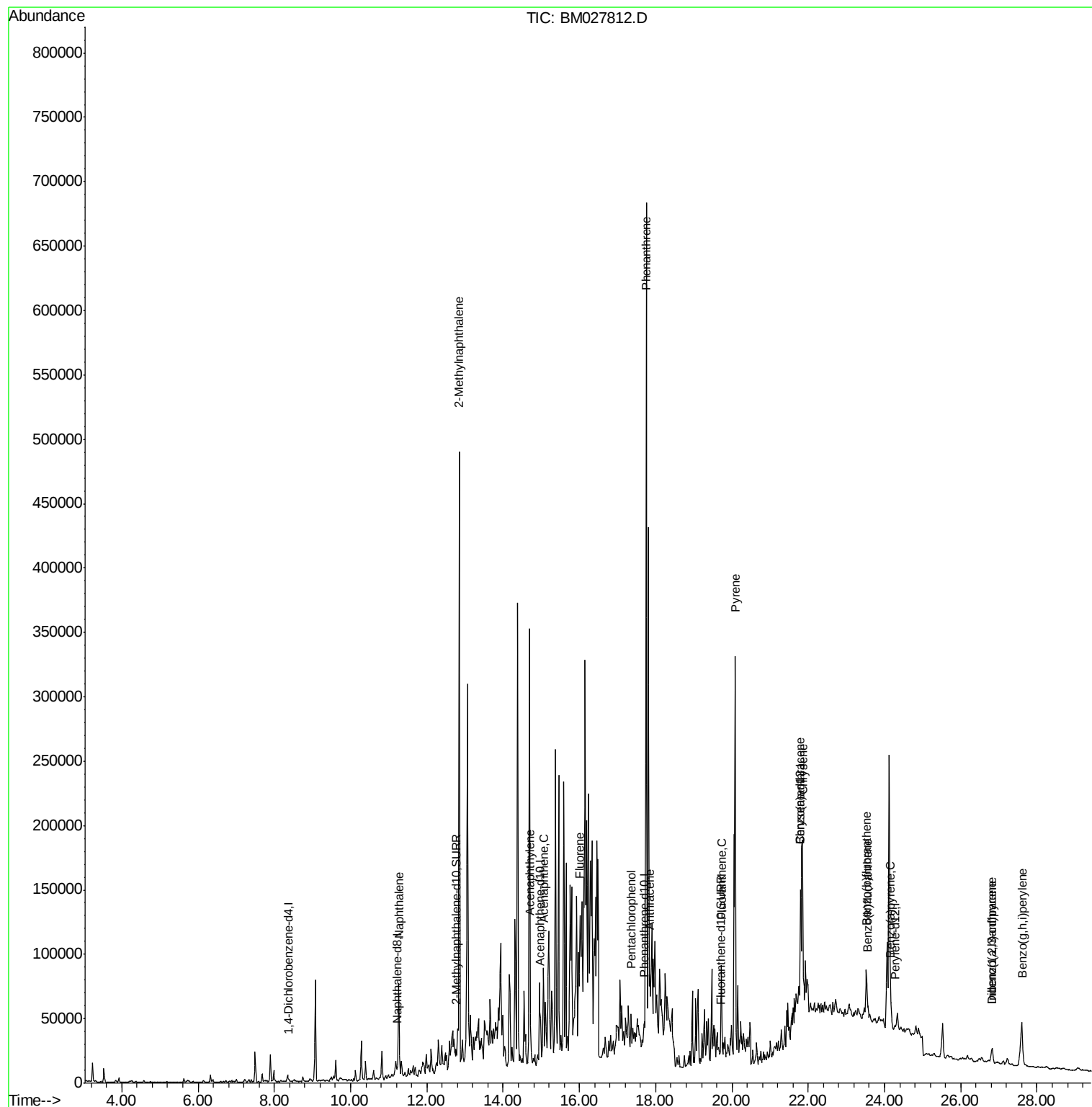
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM111720\  
Data File : BM027812.D  
Acq On : 17 Nov 2020 10:14  
Operator : JU/CG  
Sample : L4762-03  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

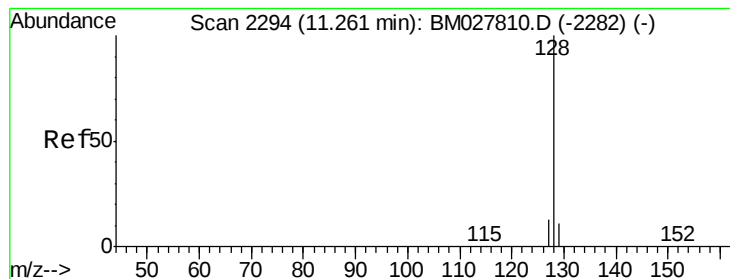
Instrument :  
BNA\_M  
ClientSampleId :  
C0AB8

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11/19/2020 10:32:40 AM

Quant Time: Nov 17 10:50:07 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM111020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 17 09:19:02 2020  
Response via : Initial Calibration





#3

Naphthalene

Concen: 7.838 ng/ul

RT: 11.26 min Scan# 2295

Delta R.T. 0.00 min

Lab File: BM027812.D

Acq: 17 Nov 2020 10:14

Instrument :

BNA\_M

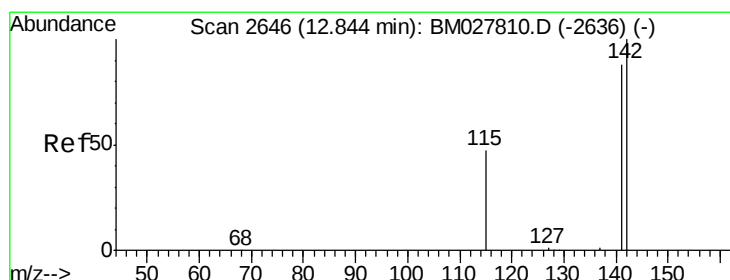
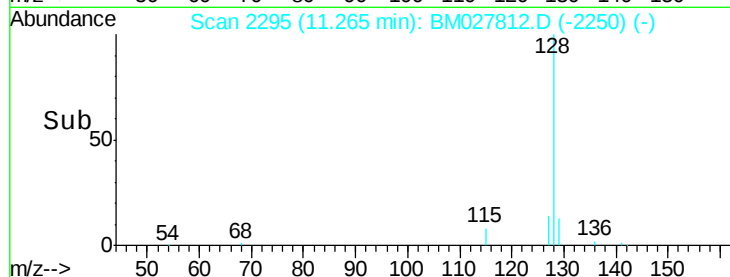
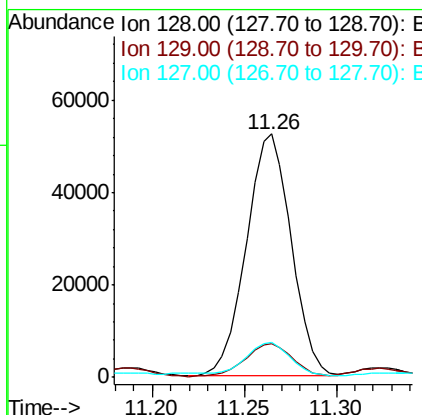
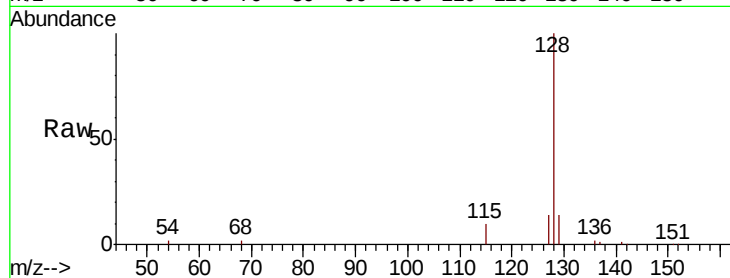
ClientSampleId :

C0AB8

| Tot Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 128     | 100  |       |       |       |
| 129     | 13.8 | 11.0  | 16.4  |       |
| 127     | 14.3 | 12.4  | 18.6  |       |

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#5

2-Methylnaphthalene

Concen: 37.880 ng/ul

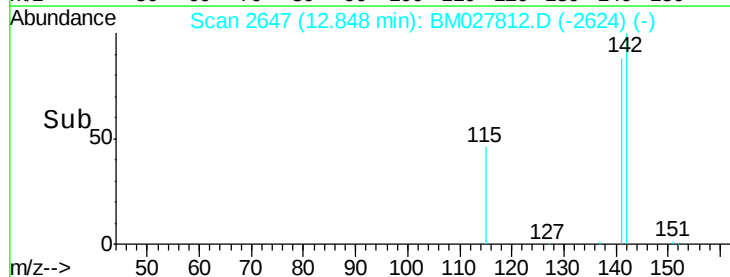
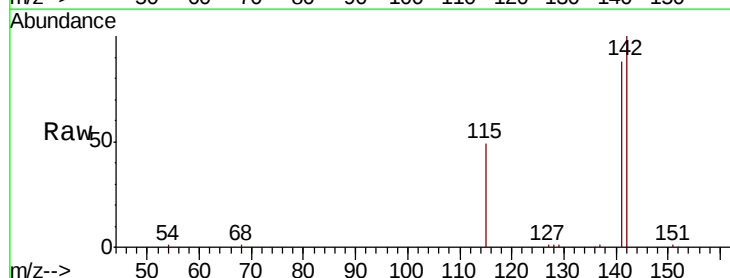
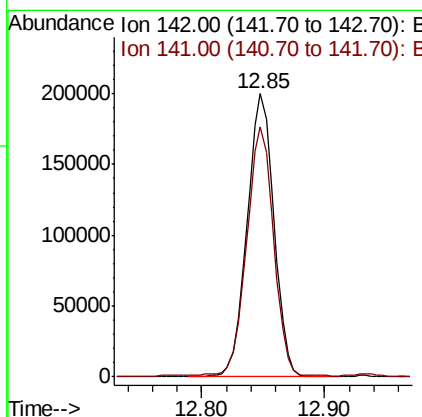
RT: 12.85 min Scan# 2647

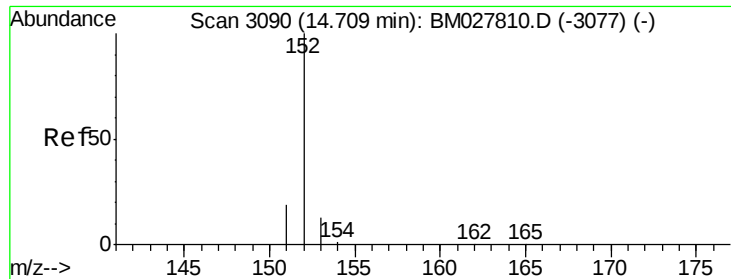
Delta R.T. 0.00 min

Lab File: BM027812.D

Acq: 17 Nov 2020 10:14

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 142     | 100  |       |       |       |
| 141     | 88.3 | 70.0  | 105.0 |       |





#7

Acenaphthylene

Concen: 0.685 ng/ul

RT: 14.71 min Scan# 3091

Delta R.T. 0.00 min

Lab File: BM027812.D

Acq: 17 Nov 2020 10:14

Instrument :

BNA\_M

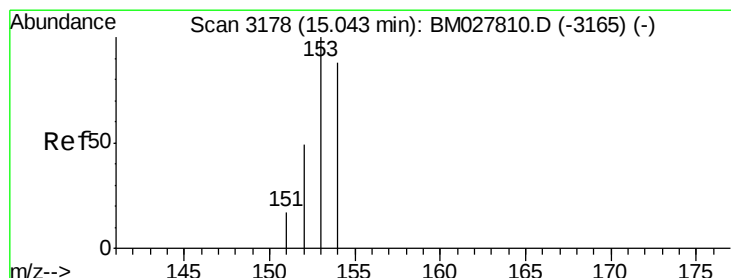
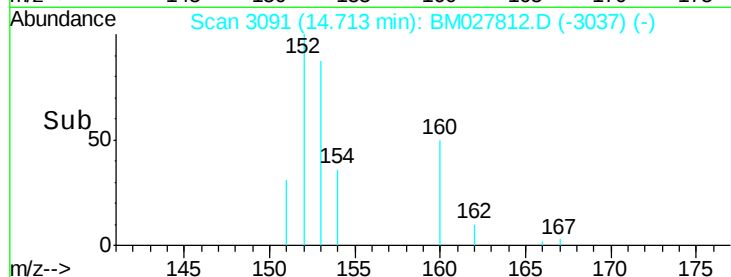
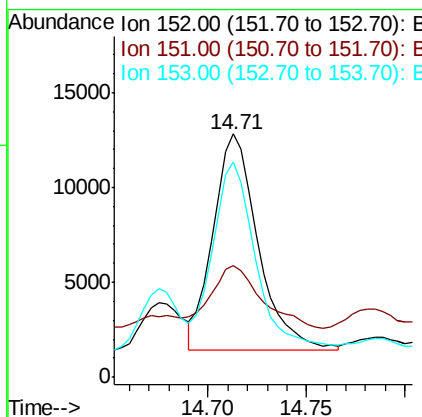
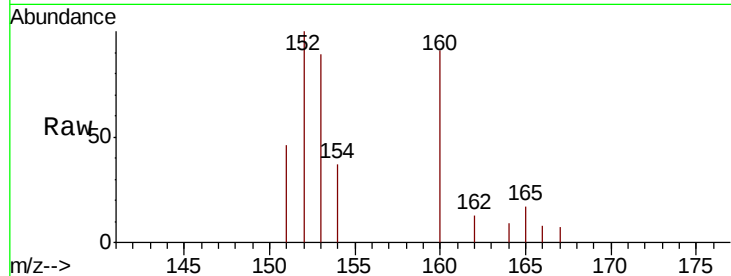
ClientSampleId :

C0AB8

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 18129 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 45.7  | 17.8  | 26.6# |
| 153       | 88.7  | 11.8  | 17.8# |

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#8

Acenaphthene

Concen: 2.019 ng/ul

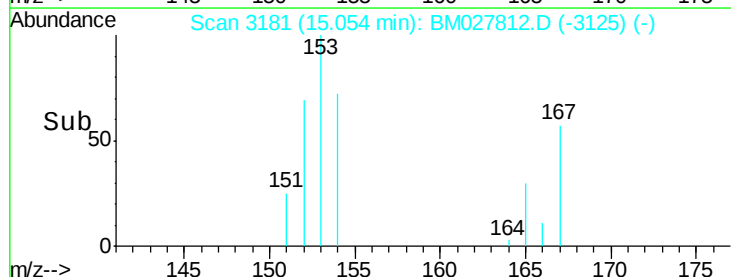
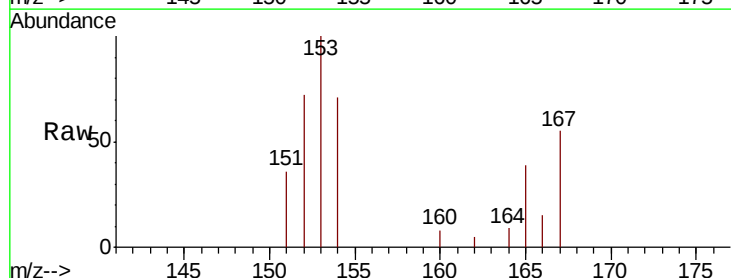
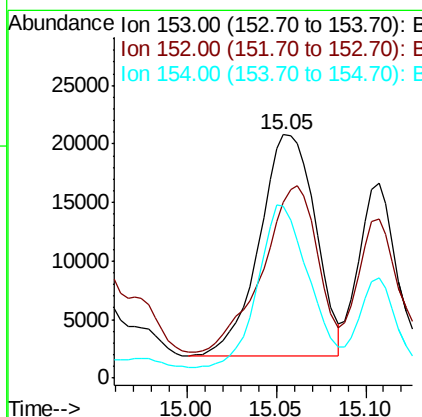
RT: 15.05 min Scan# 3181

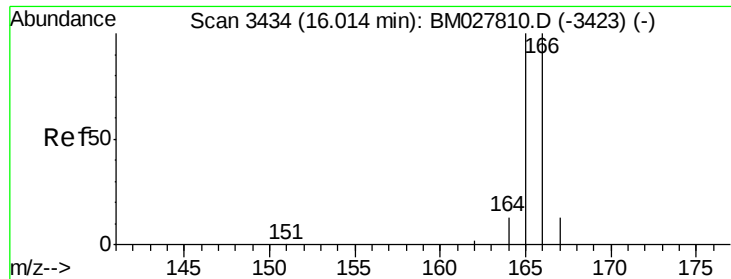
Delta R.T. 0.01 min

Lab File: BM027812.D

Acq: 17 Nov 2020 10:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 153   | Resp: | 40927  |
| Ion Ratio | Lower | Upper |        |
| 153       | 100   |       |        |
| 152       | 72.4  | 38.6  | 58.0#  |
| 154       | 70.8  | 72.0  | 108.0# |





#9

Fluorene

Concen: 2.035 ng/ul

RT: 16.02 min Scan# 3437

Delta R.T. 0.01 min

Lab File: BM027812.D

Acq: 17 Nov 2020 10:14

Instrument :

BNA\_M

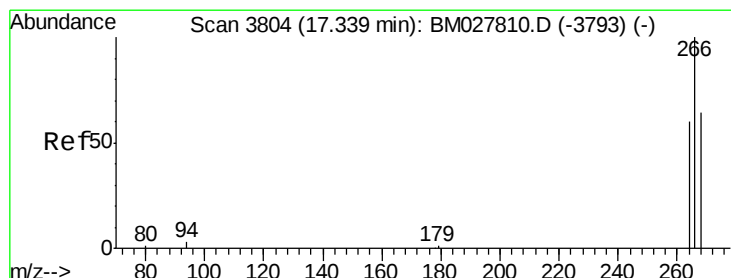
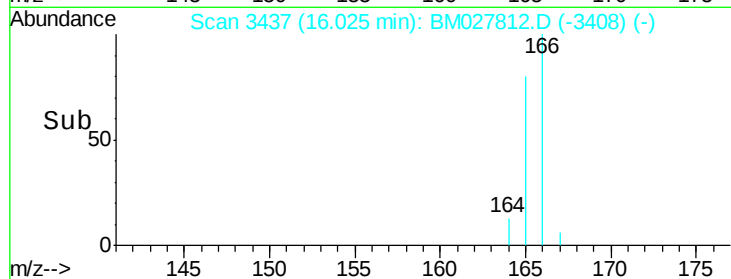
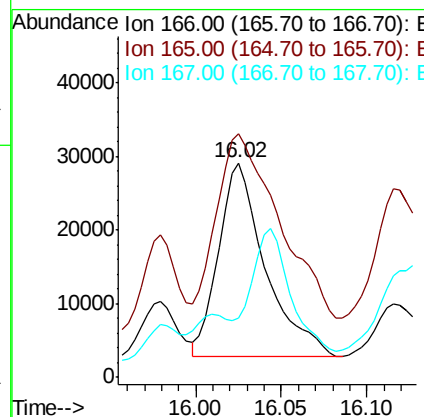
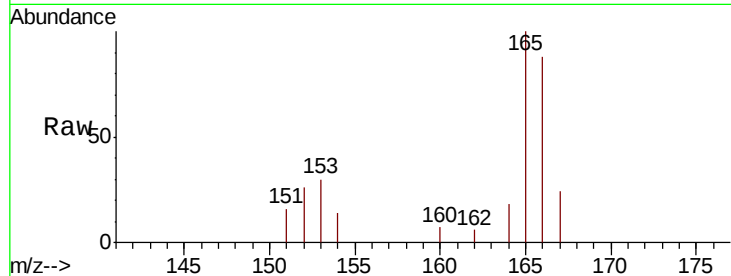
ClientSampleId :

C0AB8

| Tot Ion | Ion   | Ratio | Lower | Upper |
|---------|-------|-------|-------|-------|
| 166     | 100   |       |       |       |
| 165     | 113.4 | 76.9  | 115.3 |       |
| 167     | 27.6  | 12.0  | 18.0  |       |

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#11

Pentachlorophenol

Concen: 0.505 ng/ul

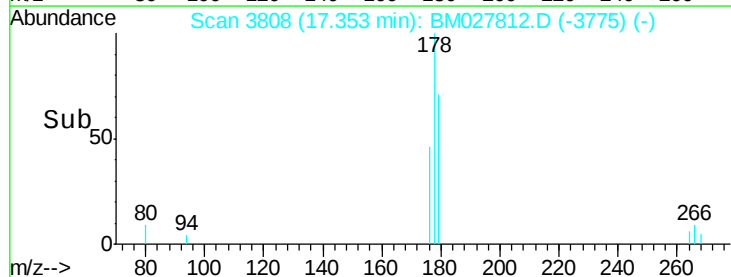
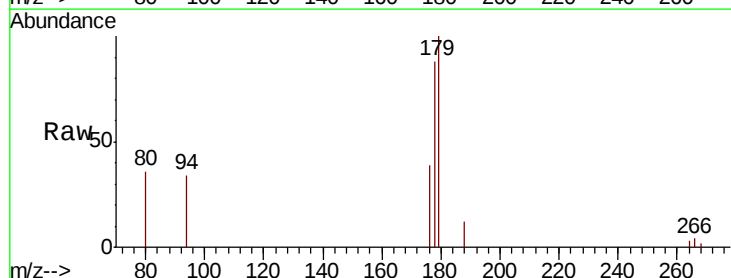
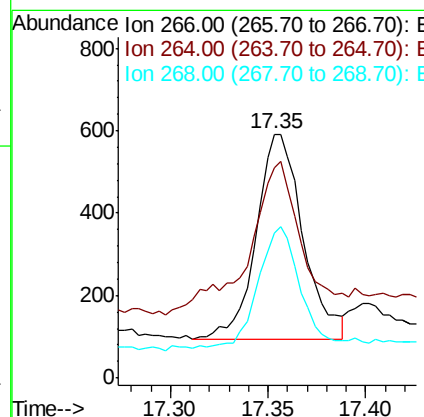
RT: 17.35 min Scan# 3808

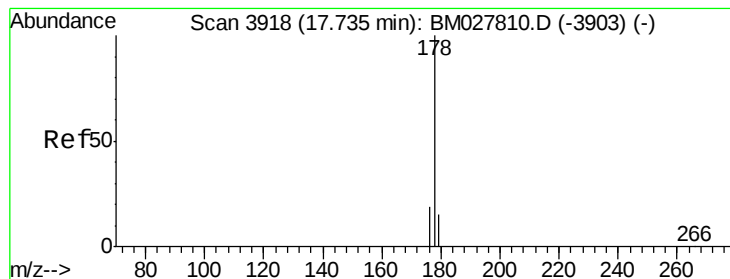
Delta R.T. 0.01 min

Lab File: BM027812.D

Acq: 17 Nov 2020 10:14

| Tgt Ion | Ion  | Ratio | Lower | Upper |
|---------|------|-------|-------|-------|
| 266     | 100  |       |       |       |
| 264     | 84.2 | 49.0  | 73.6  |       |
| 268     | 54.1 | 50.4  | 75.6  |       |





#12

Phenanthrene

Concen: 43.901 ng/ul

RT: 17.75 min Scan# 3922

Delta R.T. 0.01 min

Lab File: BM027812.D

Acq: 17 Nov 2020 10:14

Instrument :

BNA\_M

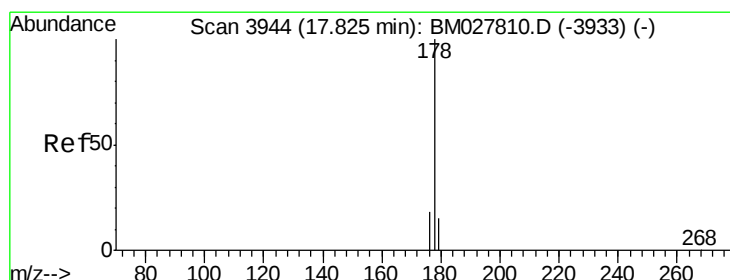
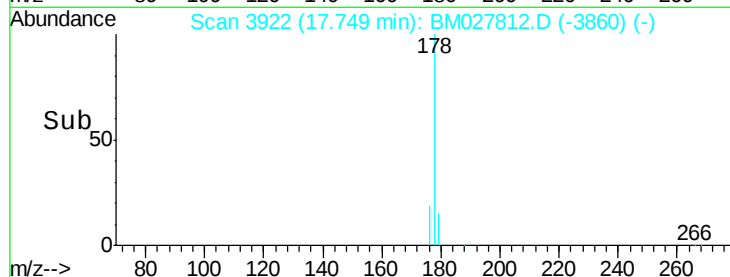
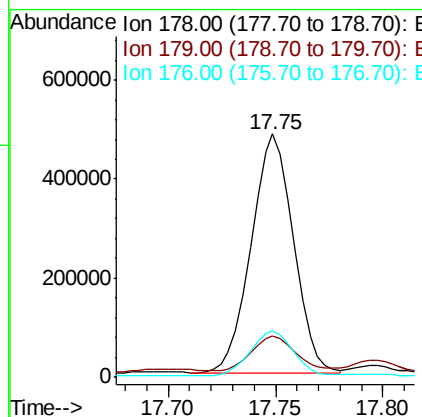
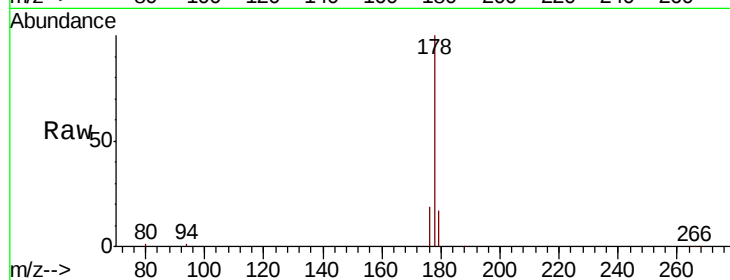
ClientSampleId :

C0AB8

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 178   | Resp: | 654965 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 17.2  | 13.5  | 20.3   |
| 176       | 19.3  | 16.5  | 24.7   |

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#13

Anthracene

Concen: 3.908 ng/ul m

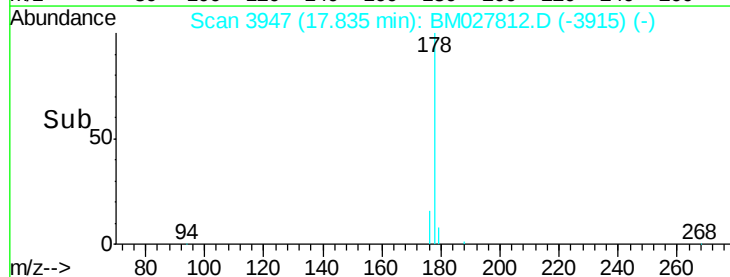
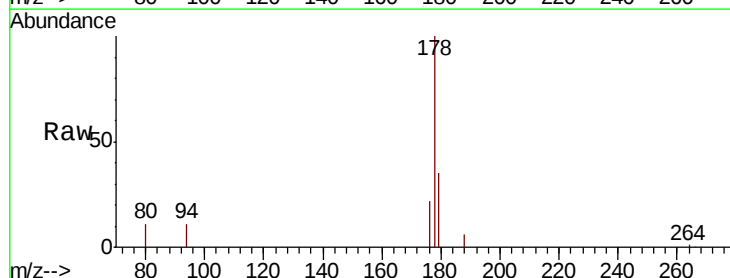
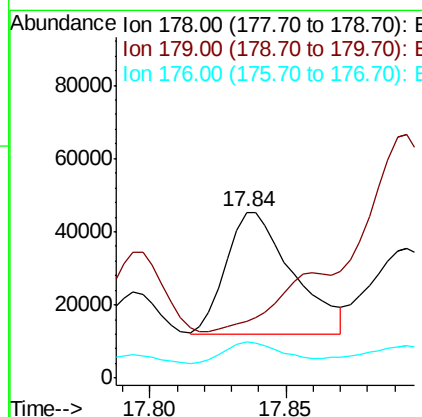
RT: 17.84 min Scan# 3947

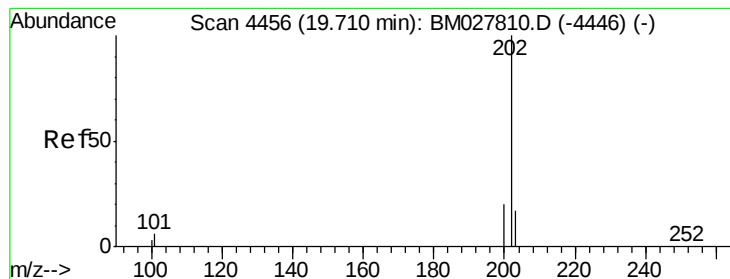
Delta R.T. 0.01 min

Lab File: BM027812.D

Acq: 17 Nov 2020 10:14

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 56768 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 34.5  | 13.6  | 20.4# |
| 176       | 21.9  | 15.4  | 23.2  |





#15

Fluoranthene

Concen: 3.980 ng/ul

RT: 19.72 min Scan# 4459

Delta R.T. 0.01 min

Lab File: BM027812.D

Acq: 17 Nov 2020 10:14

Instrument :

BNA\_M

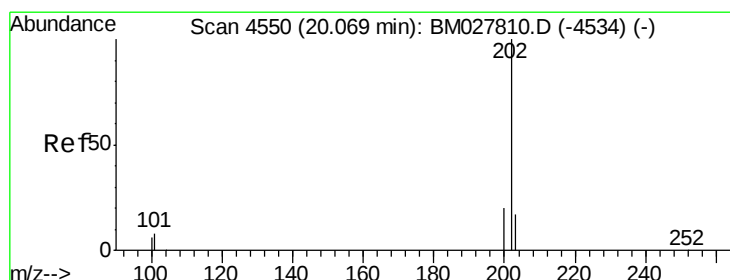
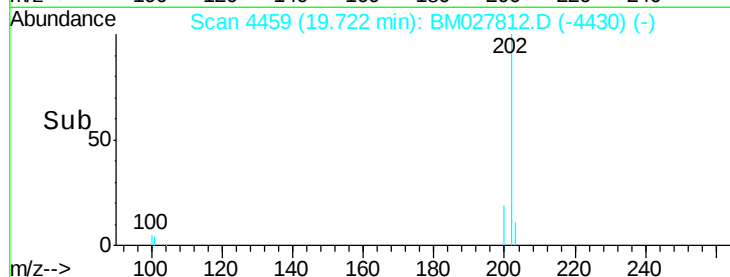
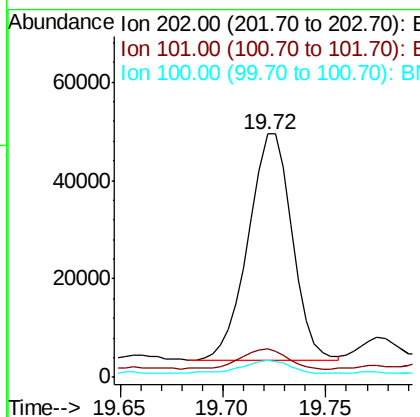
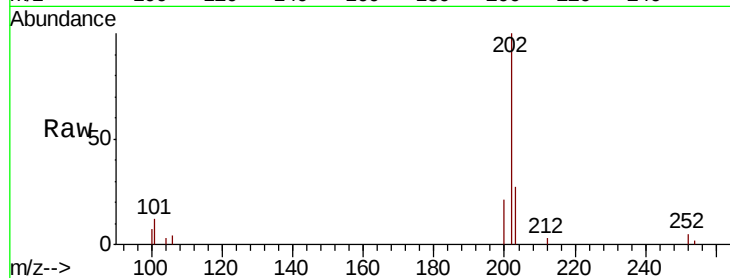
ClientSampleId :

C0AB8

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 67969 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 11.7  | 0.0   | 28.0  |
| 100       | 7.1   | 0.0   | 26.3  |

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#17

Pyrene

Concen: 6.475 ng/ul

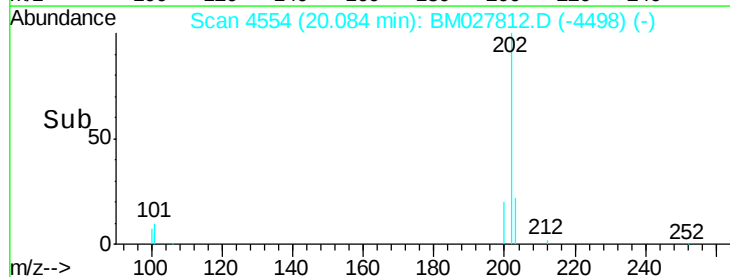
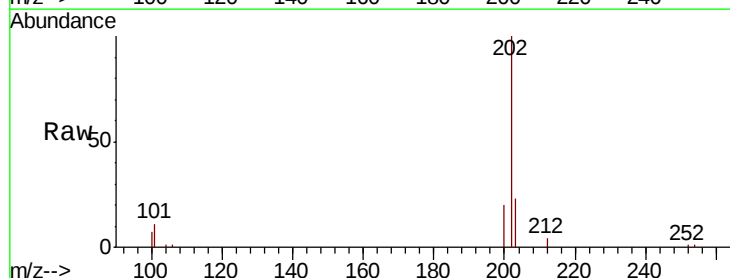
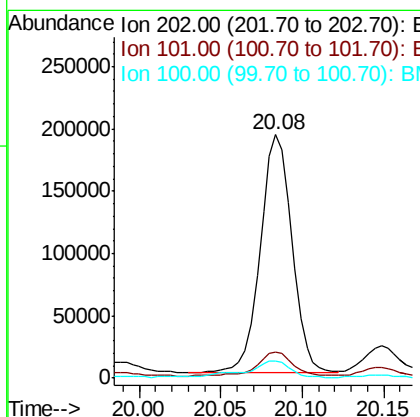
RT: 20.08 min Scan# 4554

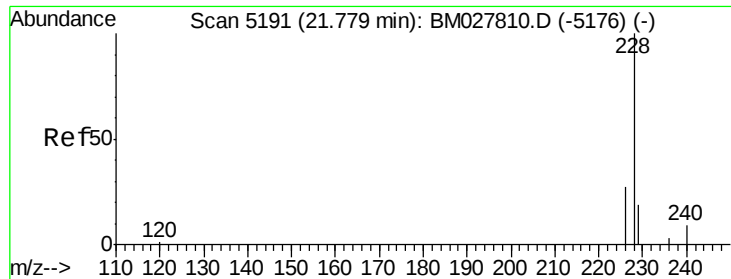
Delta R.T. 0.02 min

Lab File: BM027812.D

Acq: 17 Nov 2020 10:14

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 257682 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 10.8  | 6.4   | 9.6#   |
| 100       | 7.2   | 5.8   | 8.6    |





#18

Benzo(a)anthracene

Concen: 1.823 ng/ul

RT: 21.80 min Scan# 5199

Delta R.T. 0.02 min

Lab File: BM027812.D

Acq: 17 Nov 2020 10:14

Instrument :

BNA\_M

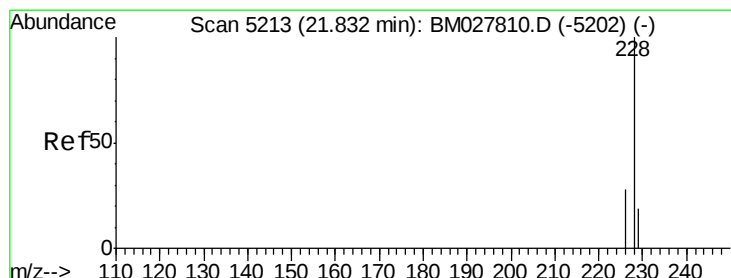
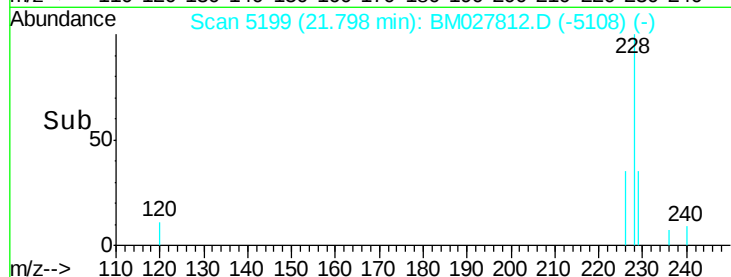
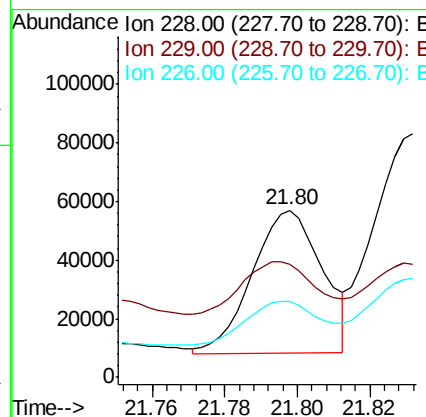
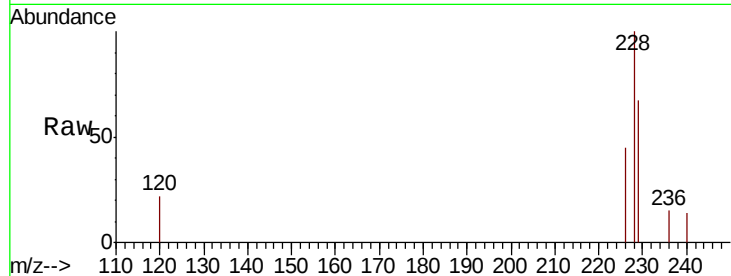
ClientSampleId :

C0AB8

|             |       |            |
|-------------|-------|------------|
| Tot Ion:228 | Resp: | 65371      |
| Ion Ratio   | Lower | Upper      |
| 228         | 100   |            |
| 229         | 67.3  | 15.9 23.9# |
| 226         | 45.1  | 22.0 33.0# |

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#19

Chrysene

Concen: 5.493 ng/ul

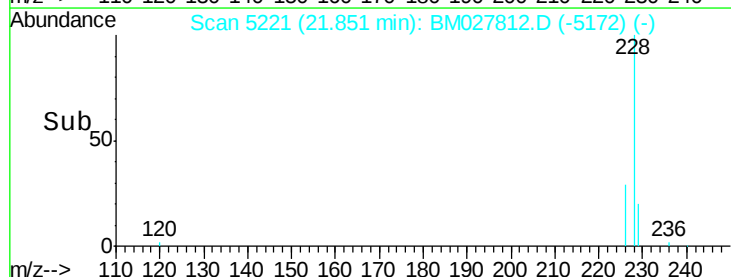
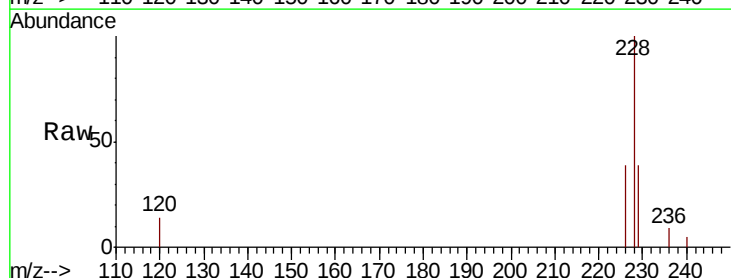
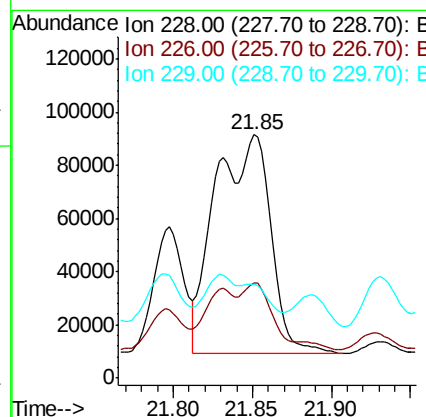
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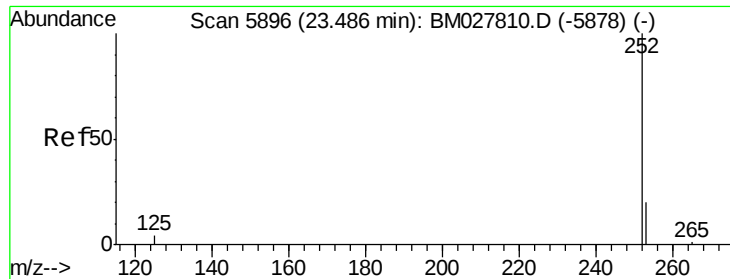
Delta R.T. 0.02 min

Lab File: BM027812.D

Acq: 17 Nov 2020 10:14

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:228 | Resp: | 200678     |
| Ion Ratio   | Lower | Upper      |
| 228         | 100   |            |
| 226         | 39.1  | 24.2 36.2# |
| 229         | 38.6  | 16.8 25.2# |





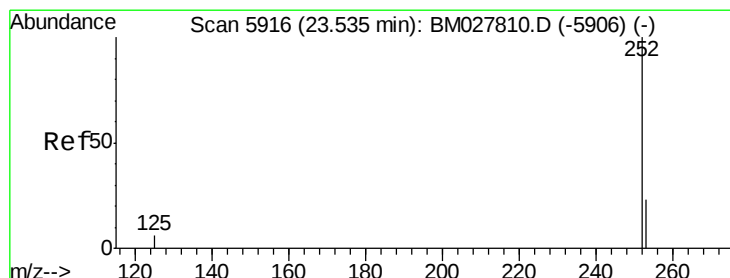
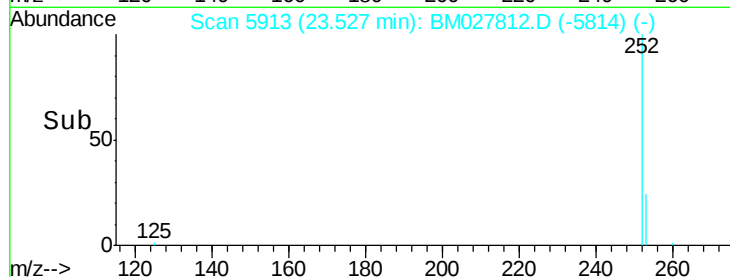
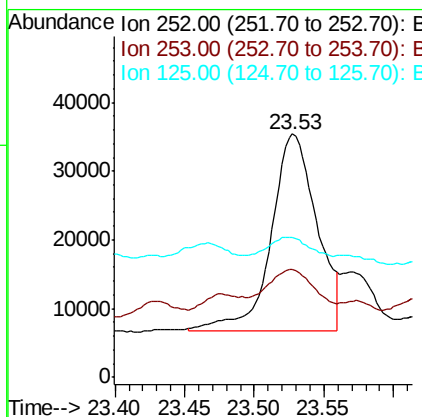
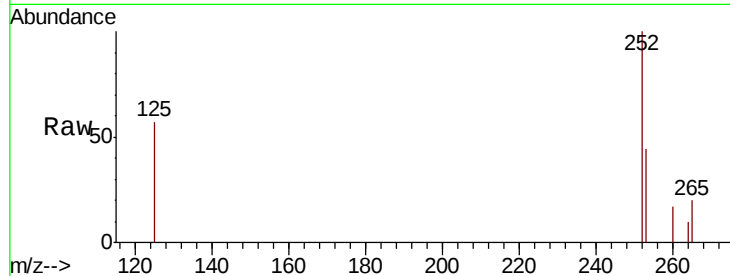
#21  
Benzo(b)fluoranthene  
Concen: 3.732 ng/ul m  
RT: 23.53 min Scan# 5913  
Delta R.T. 0.04 min  
Lab File: BM027812.D  
Acq: 17 Nov 2020 10:14

Instrument :  
BNA\_M  
ClientSampleId :  
C0AB8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 44.2  | 0.0   | 52.2  |
| 125     | 57.3  | 0.0   | 17.6  |

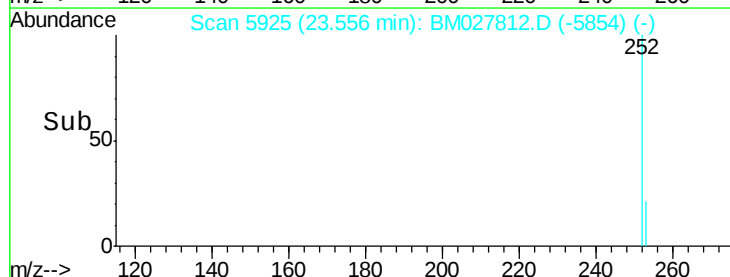
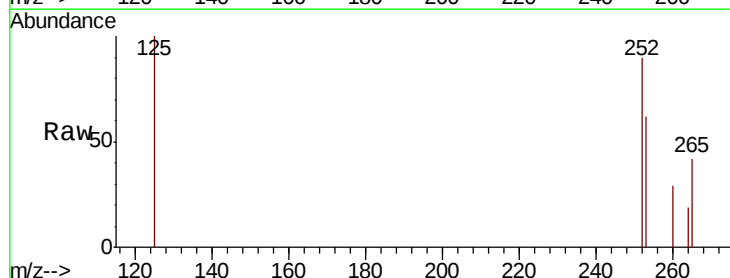
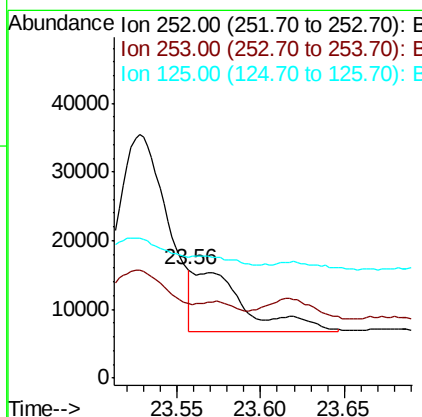
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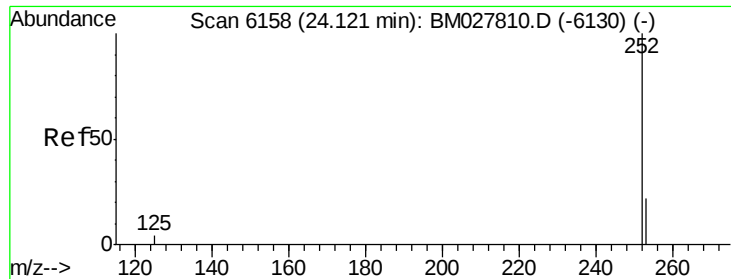
mohammad  
11/19/2020 10:32:40 AM



#22  
Benzo(k)fluoranthene  
Concen: 1.127 ng/ul m  
RT: 23.56 min Scan# 5925  
Delta R.T. 0.02 min  
Lab File: BM027812.D  
Acq: 17 Nov 2020 10:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 69.1  | 20.4  | 30.6  |
| 125     | 111.5 | 7.0   | 10.4  |





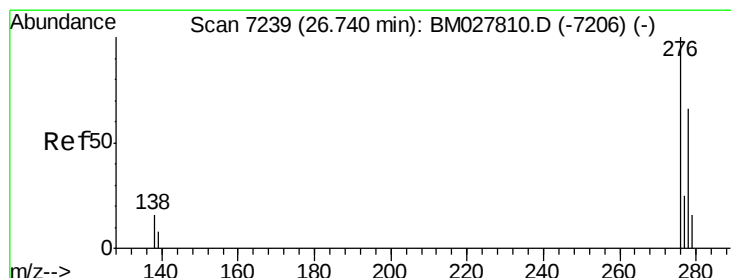
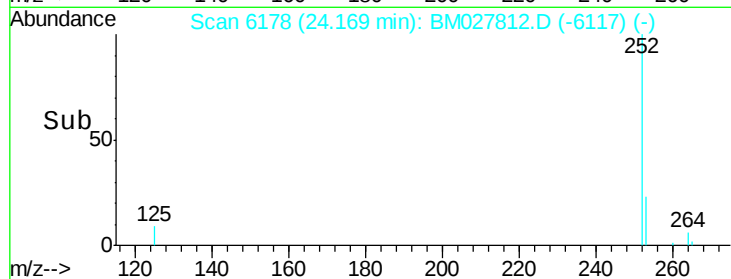
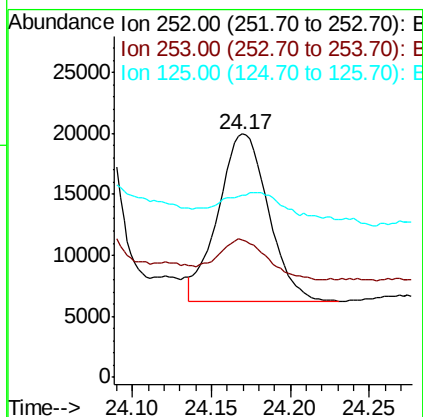
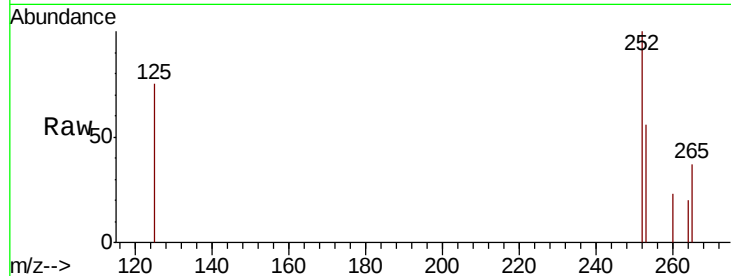
#23  
Benzo(a)pyrene  
Concen: 1.958 ng/ul  
RT: 24.17 min Scan# 6178  
Delta R.T. 0.05 min  
Lab File: BM027812.D  
Acq: 17 Nov 2020 10:14

Instrument :  
BNA\_M  
ClientSampleId :  
C0AB8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 56.3  | 21.0  | 31.6# |
| 125     | 74.9  | 7.8   | 11.8# |

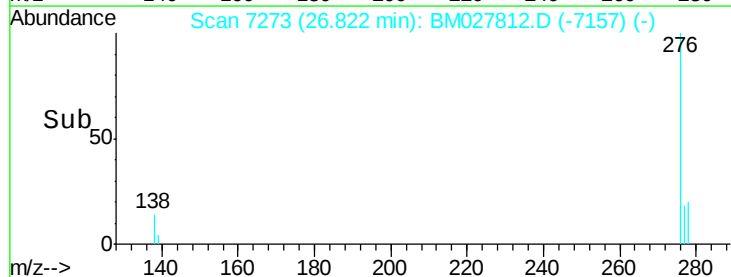
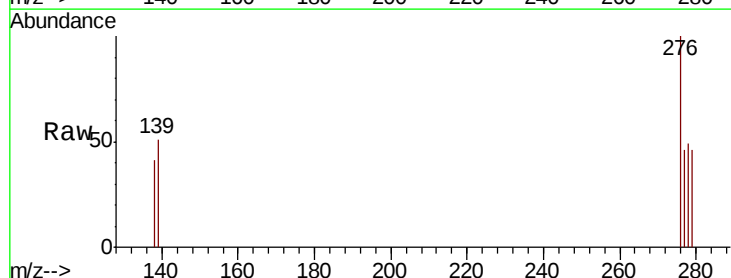
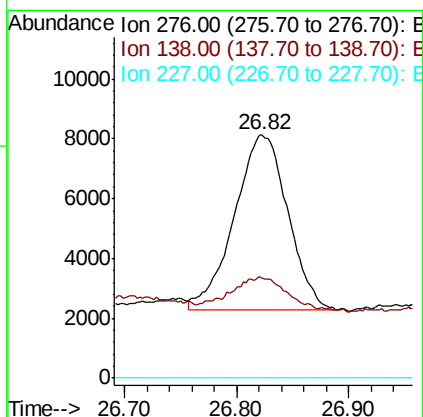
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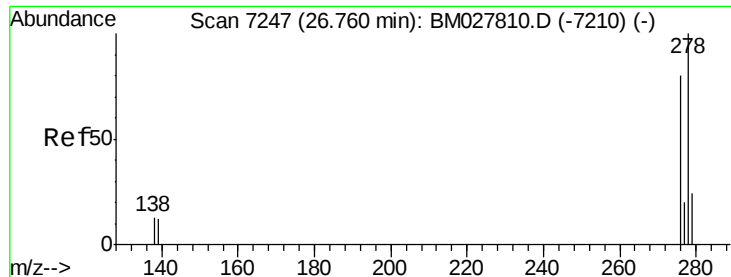
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#24  
Indeno(1,2,3-cd)pyrene  
Concen: 1.094 ng/ul  
RT: 26.82 min Scan# 7273  
Delta R.T. 0.08 min  
Lab File: BM027812.D  
Acq: 17 Nov 2020 10:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 23.3  | 12.1  | 18.1# |
| 227     | 0.0   | 0.0   | 0.0   |





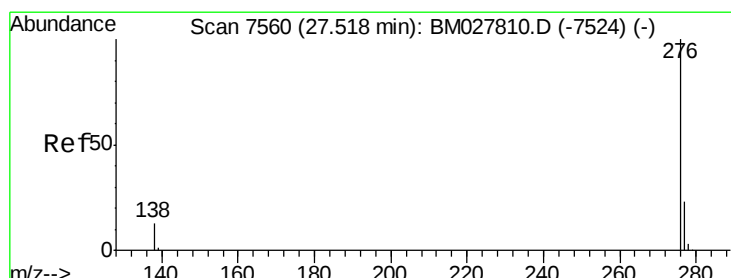
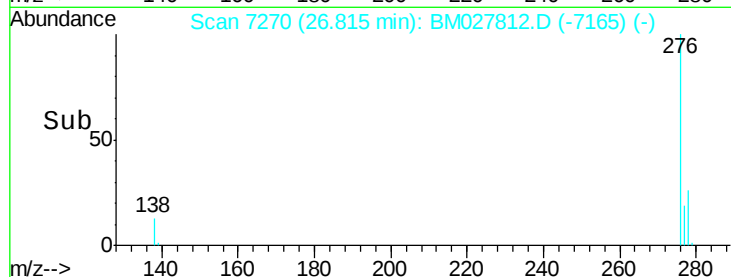
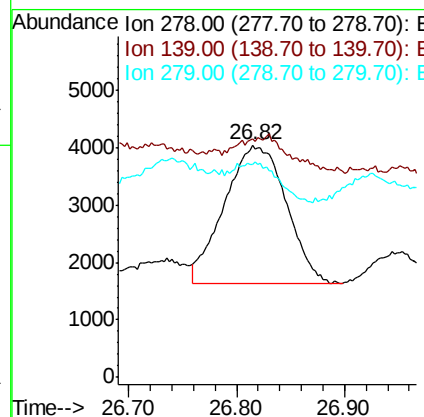
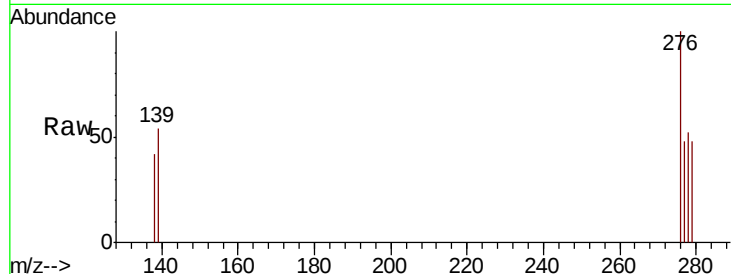
#25  
Dibenzo(a,h)anthracene  
Concen: 0.648 ng/ul  
RT: 26.82 min Scan# 7270  
Delta R.T. 0.06 min  
Lab File: BM027812.D  
Acq: 17 Nov 2020 10:14

Instrument :  
BNA\_M  
ClientSampleId :  
C0AB8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 102.5 | 10.2  | 15.4# |
| 279     | 91.3  | 21.9  | 32.9# |

Manual Integrations  
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11/19/2020 10:32:40 AM



#26  
Benzo(g,h,i)perylene  
Concen: 2.466 ng/ul  
RT: 27.61 min Scan# 7599  
Delta R.T. 0.09 min  
Lab File: BM027812.D  
Acq: 17 Nov 2020 10:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 43.6  | 12.8  | 19.2# |
| 277     | 38.7  | 21.5  | 32.3# |

