

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM112020\  
 Data File : BM027891.D  
 Acq On : 21 Nov 2020 21:08  
 Operator : JU/CG  
 Sample : L4711-01  
 Misc :  
 ALS Vial : 45 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0B36

Manual Integrations  
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 11/24/2020 8:59:09 AM

Quant Time: Nov 23 04:44:41 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM112020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Nov 23 04:04:52 2020  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.33  | 152  | 1334     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 11.17 | 136  | 5334     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.95 | 164  | 3334     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.66 | 188  | 6065m    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.77 | 240  | 3272     | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 24.19 | 264  | 2960     | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.73 | 152  | 2051     | 0.23   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.65 | 212  | 3138     | 0.19   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          |        | Ovalue |          |
| 3) Naphthalene              | 11.22 | 128  | 5105     | 0.319  | ng/ul  | 99       |
| 5) 2-Methylnaphthalene      | 12.80 | 142  | 3618     | 0.333  | ng/ul  | 99       |
| 7) Acenaphthylene           | 14.67 | 152  | 5230     | 0.321  | ng/ul  | 99       |
| 8) Acenaphthene             | 15.01 | 153  | 17136    | 1.406  | ng/ul  | 98       |
| 9) Fluorene                 | 15.98 | 166  | 20913    | 1.479  | ng/ul  | 98       |
| 11) Pentachlorophenol       | 17.31 | 266  | 326      | 0.158  | ng/ul  | 96       |
| 12) Phenanthrene            | 17.70 | 178  | 389554   | 20.333 | ng/ul  | 97       |
| 13) Anthracene              | 17.79 | 178  | 50387    | 2.726  | ng/ul  | 98       |
| 15) Fluoranthene            | 19.68 | 202  | 598574   | 28.177 | ng/ul  | 100      |
| 17) Pyrene                  | 20.04 | 202  | 449673   | 27.060 | ng/ul  | 99       |
| 18) Benzo(a)anthracene      | 21.75 | 228  | 175731   | 13.311 | ng/ul  | 100      |
| 19) Chrysene                | 21.80 | 228  | 198571   | 15.442 | ng/ul  | 99       |
| 21) Benzo(b)fluoranthene    | 23.45 | 252  | 227159m  | 18.261 | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 23.49 | 252  | 74925m   | 6.150  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 24.08 | 252  | 146305   | 13.451 | ng/ul# | 83       |
| 24) Indeno(1,2,3-cd)pyrene  | 26.68 | 276  | 101131   | 8.588  | ng/ul# | 95       |
| 25) Dibenzo(a,h)anthracene  | 26.69 | 278  | 26082    | 2.660  | ng/ul  | 92       |
| 26) Benzo(g,h,i)perylene    | 27.46 | 276  | 95917    | 9.708  | ng/ul# | 92       |

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

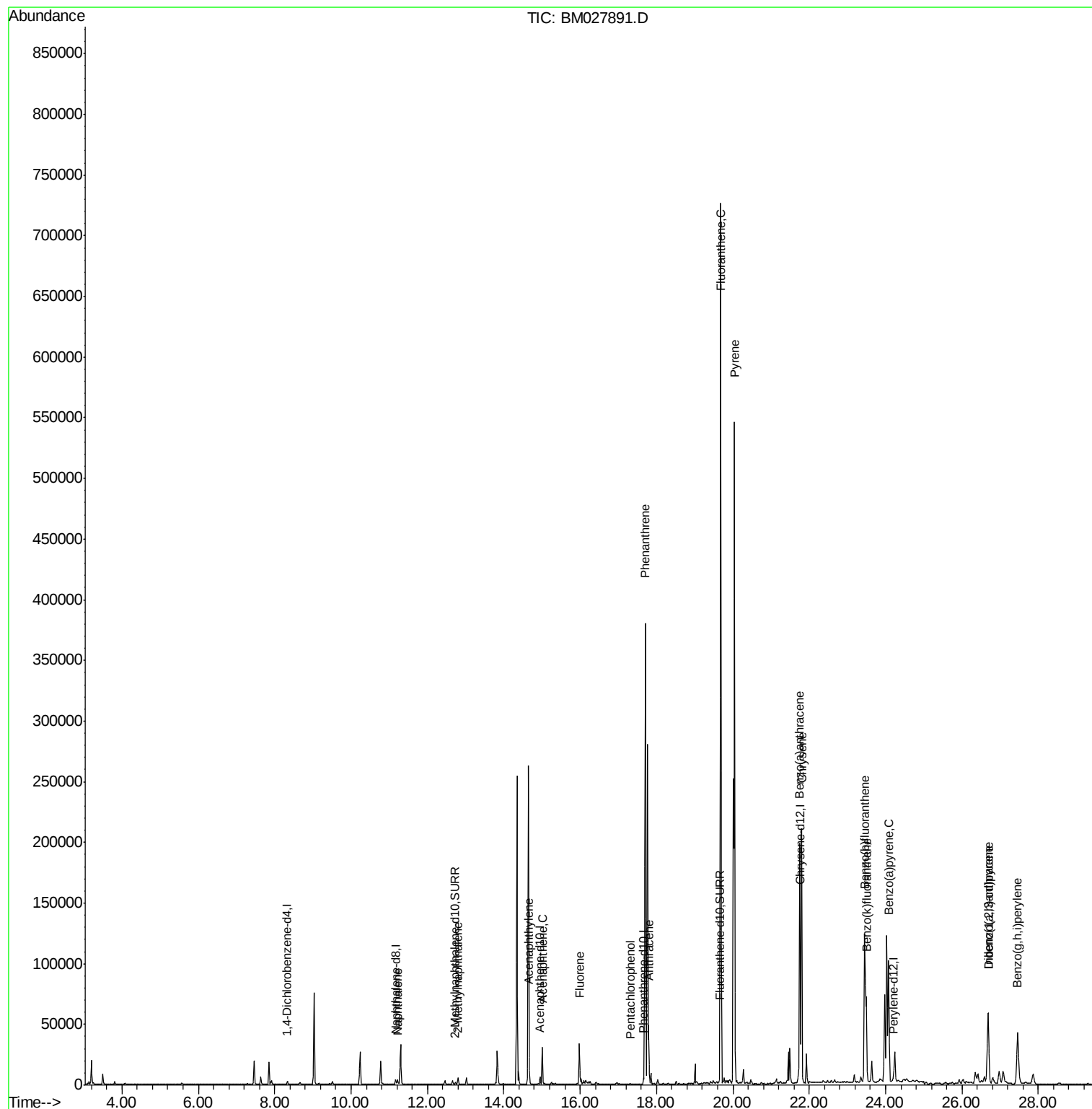
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM112020\  
Data File : BM027891.D  
Acq On : 21 Nov 2020 21:08  
Operator : JU/CG  
Sample : L4711-01  
Misc :  
ALS Vial : 45 Sample Multiplier: 1

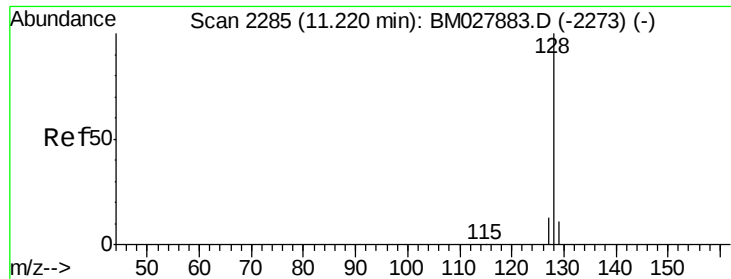
Instrument :  
BNA\_M  
ClientSampleId :  
C0B36

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Quant Time: Nov 23 04:44:41 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM112020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Nov 23 04:04:52 2020  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.319 ng/ul

RT: 11.22 min Scan# 2284

Delta R.T. -0.00 min

Lab File: BM027891.D

Acq: 21 Nov 2020 21:08

Instrument :

BNA\_M

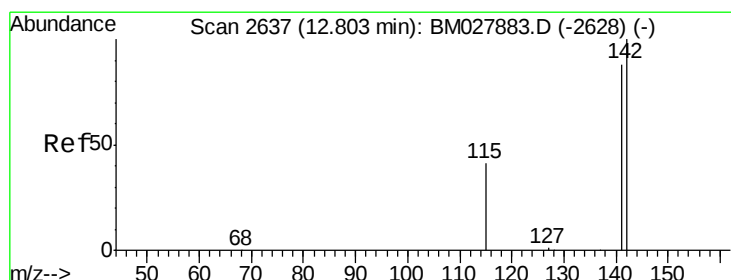
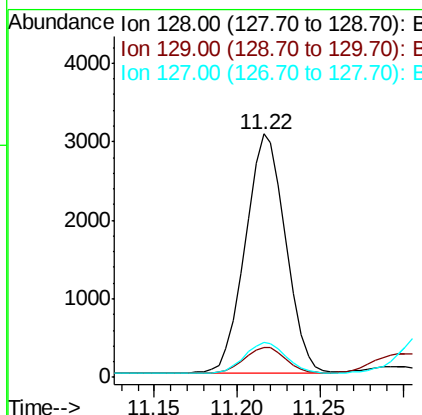
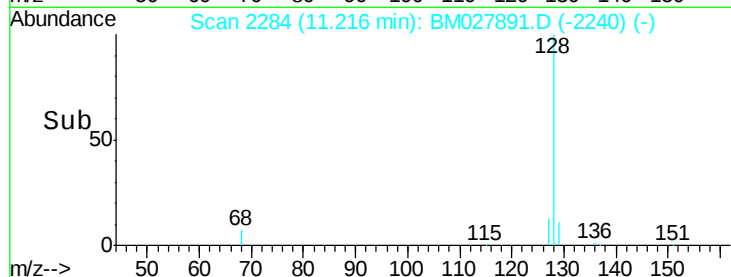
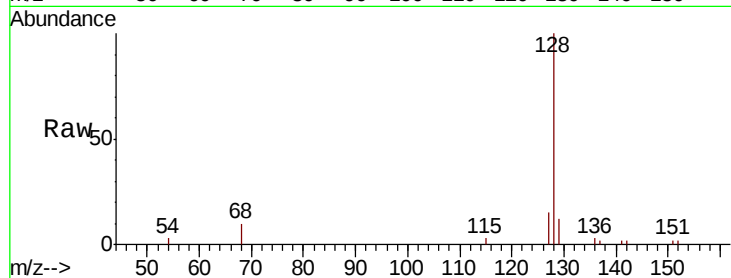
ClientSampleId :

C0B36

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 128   | Resp: | 5105  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 12.3  | 10.4  | 15.6  |
| 127      | 14.5  | 12.0  | 18.0  |

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#5

2-Methylnaphthalene

Concen: 0.333 ng/ul

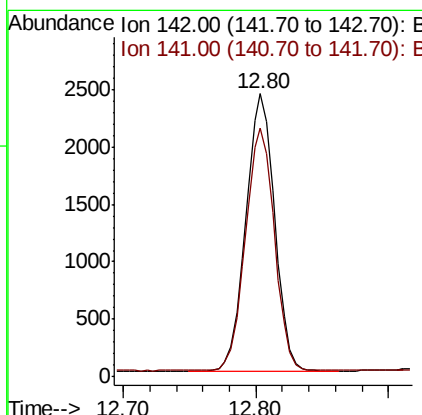
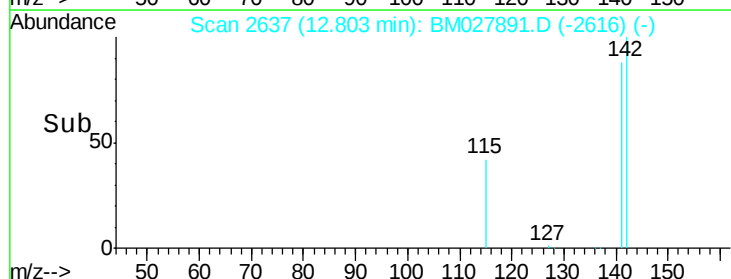
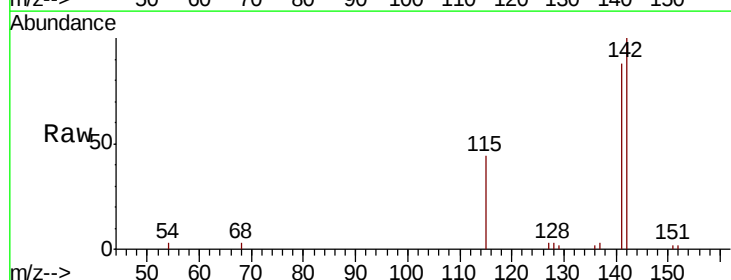
RT: 12.80 min Scan# 2637

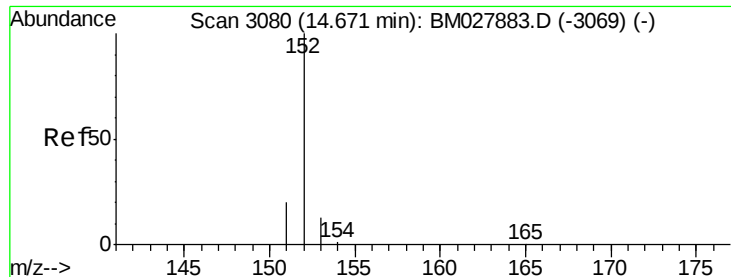
Delta R.T. -0.00 min

Lab File: BM027891.D

Acq: 21 Nov 2020 21:08

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 142   | Resp: | 3618  |
| Ion      | Ratio | Lower | Upper |
| 142      | 100   |       |       |
| 141      | 88.1  | 71.6  | 107.4 |





#7

Acenaphthylene

Concen: 0.321 ng/ul

RT: 14.67 min Scan# 3080

Delta R.T. -0.00 min

Lab File: BM027891.D

Acq: 21 Nov 2020 21:08

Instrument :

BNA\_M

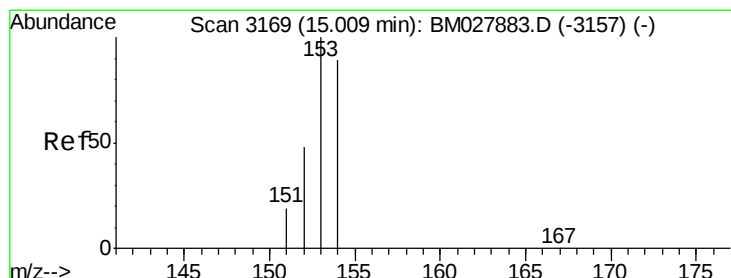
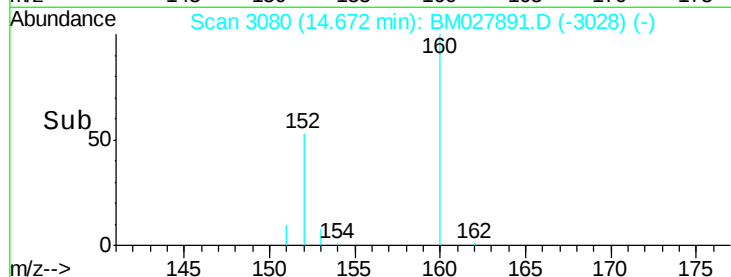
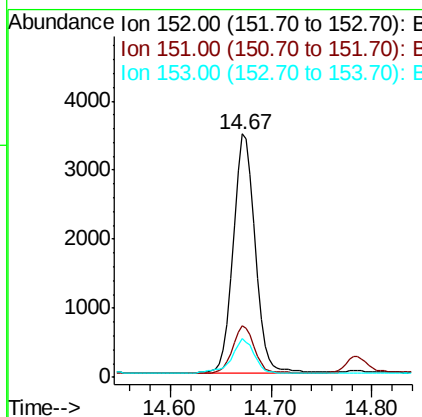
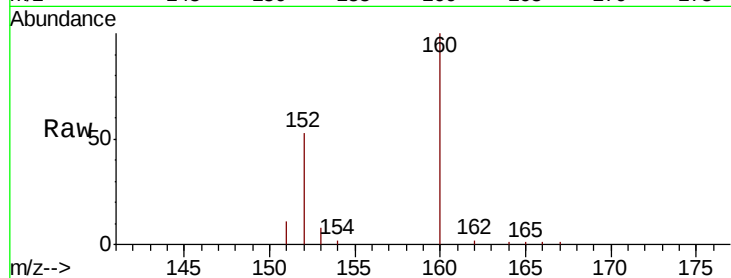
ClientSampleId :

C0B36

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 152   | Resp: | 5230  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 21.2  | 17.1  | 25.7  |
| 153      | 15.8  | 12.0  | 18.0  |

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#8

Acenaphthene

Concen: 1.406 ng/ul

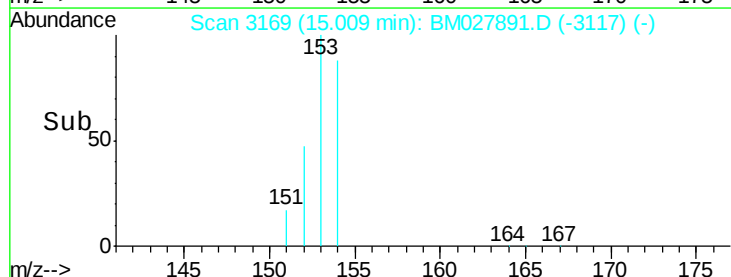
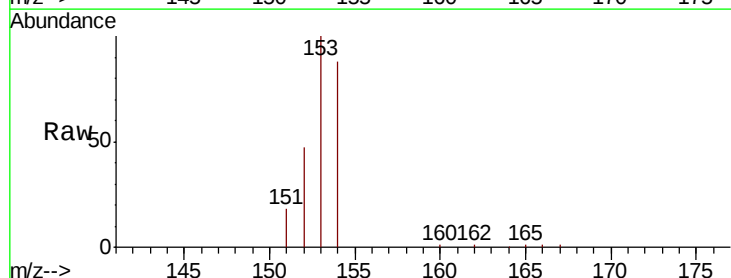
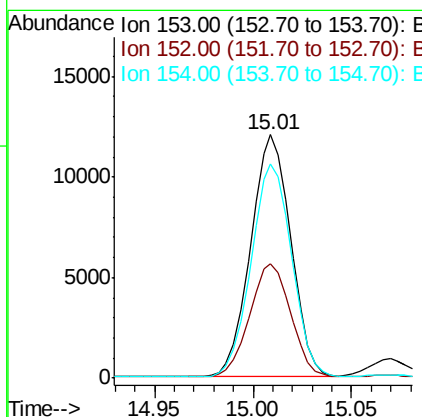
RT: 15.01 min Scan# 3169

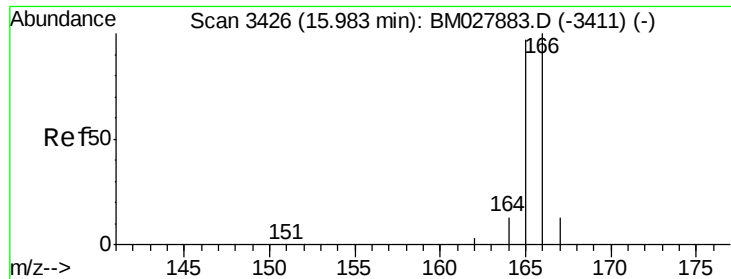
Delta R.T. -0.00 min

Lab File: BM027891.D

Acq: 21 Nov 2020 21:08

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 153   | Resp: | 17136 |
| Ion      | Ratio | Lower | Upper |
| 153      | 100   |       |       |
| 152      | 47.1  | 39.0  | 58.6  |
| 154      | 88.1  | 71.6  | 107.4 |





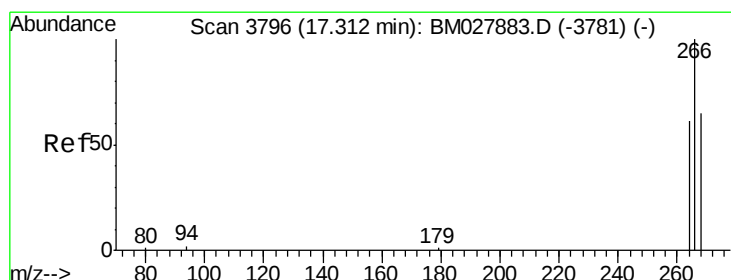
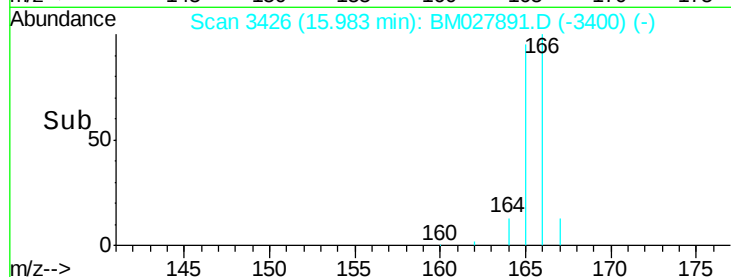
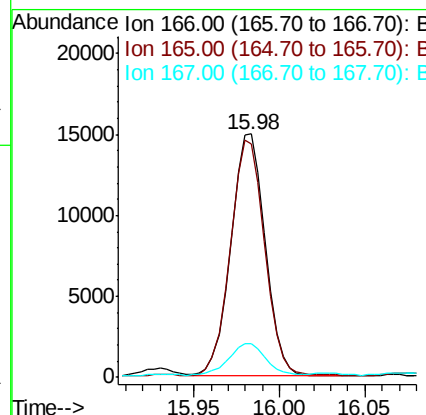
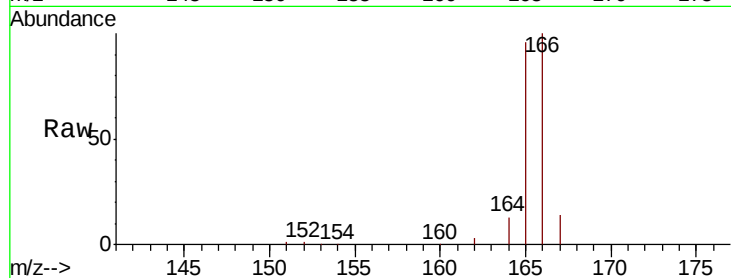
#9  
**Fluorene**  
 Concen: 1.479 ng/ul  
 RT: 15.98 min Scan# 3426  
 Delta R.T. 0.00 min  
 Lab File: BM027891.D  
 Acq: 21 Nov 2020 21:08

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C0B36

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 95.8  | 78.1  | 117.1 |
| 167     | 13.9  | 11.8  | 17.8  |

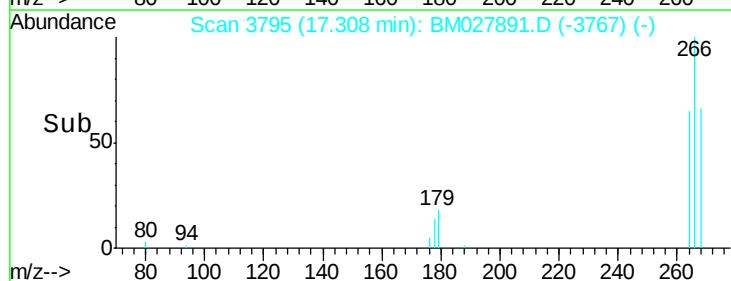
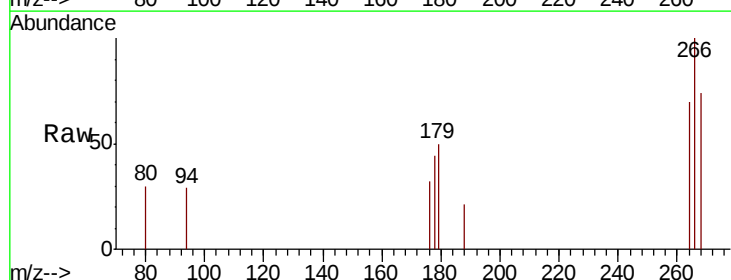
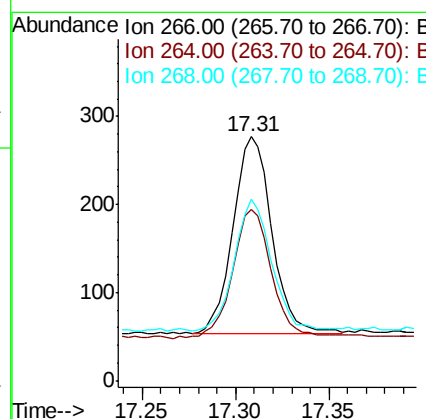
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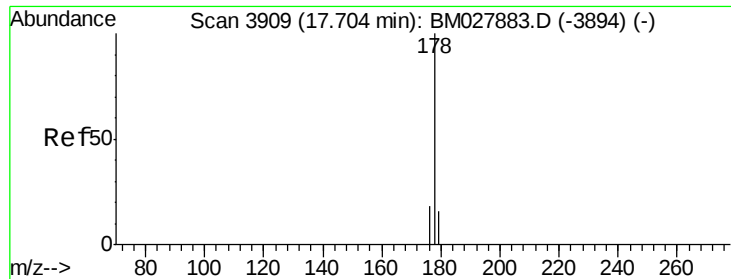
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#11  
**Pentachlorophenol**  
 Concen: 0.158 ng/ul  
 RT: 17.31 min Scan# 3795  
 Delta R.T. -0.00 min  
 Lab File: BM027891.D  
 Acq: 21 Nov 2020 21:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 68.1  | 49.6  | 74.4  |
| 268     | 64.7  | 52.1  | 78.1  |





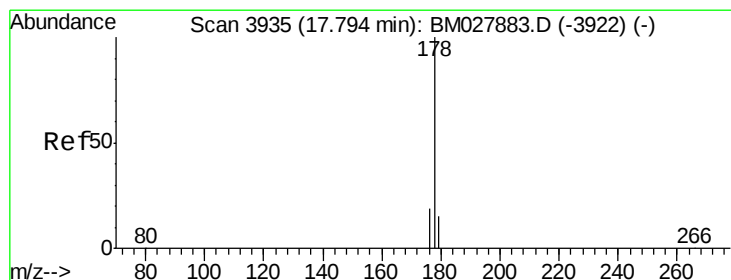
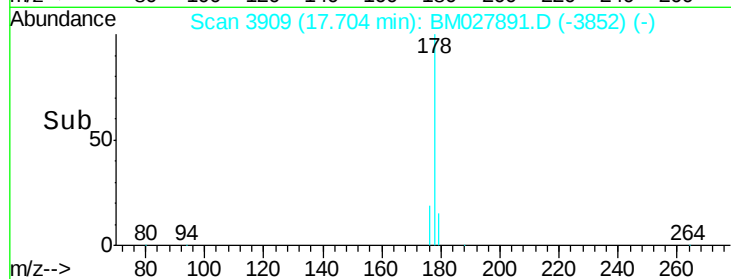
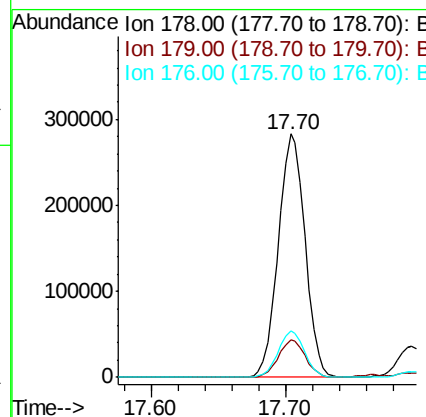
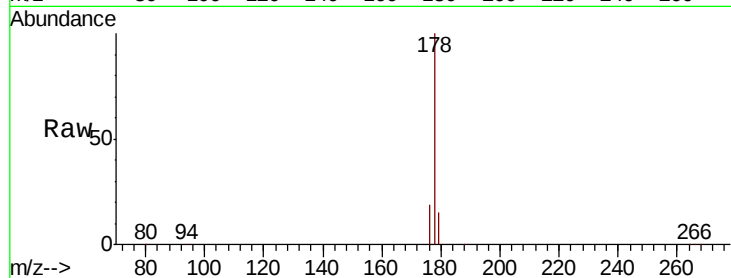
#12  
Phenanthrene  
Concen: 20.333 ng/ul  
RT: 17.70 min Scan# 3909  
Delta R.T. -0.00 min  
Lab File: BM027891.D  
Acq: 21 Nov 2020 21:08

Instrument :  
BNA\_M  
ClientSampleId :  
C0B36

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.3  | 13.6  | 20.4  |
| 176     | 19.0  | 16.1  | 24.1  |

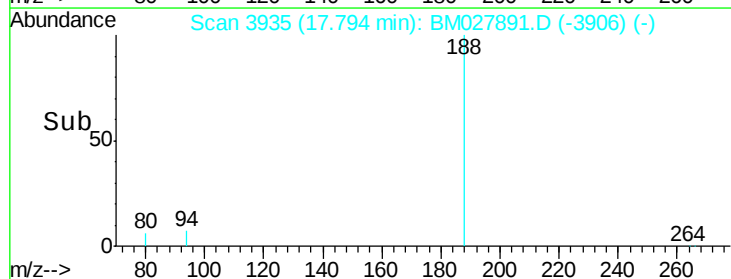
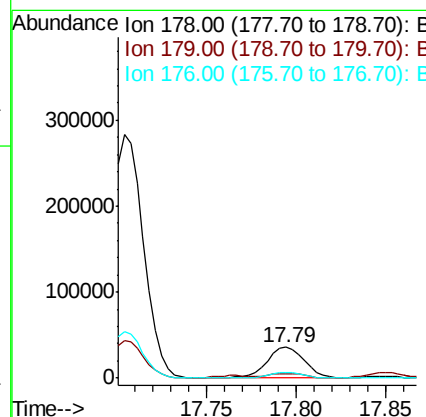
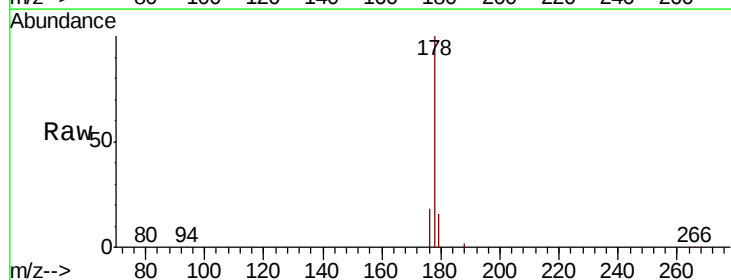
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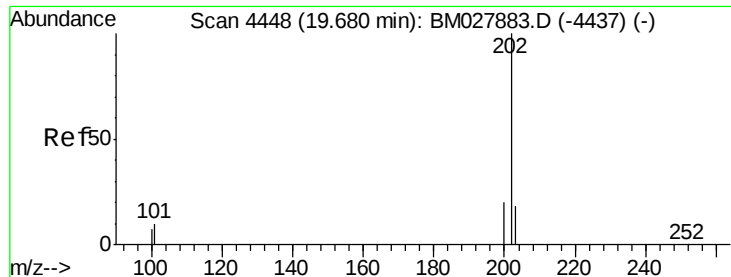
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#13  
Anthracene  
Concen: 2.726 ng/ul  
RT: 17.79 min Scan# 3935  
Delta R.T. 0.00 min  
Lab File: BM027891.D  
Acq: 21 Nov 2020 21:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.7  | 13.4  | 20.2  |
| 176     | 18.4  | 15.0  | 22.6  |





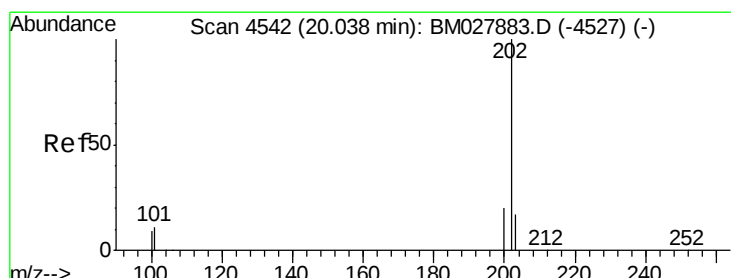
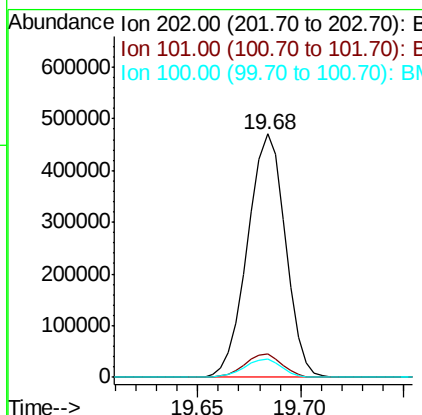
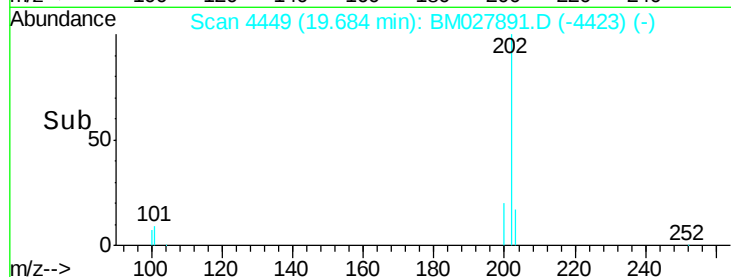
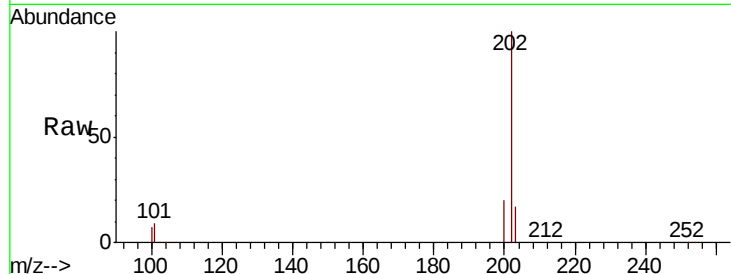
#15  
Fluoranthene  
Concen: 28.177 ng/ul  
RT: 19.68 min Scan# 4449  
Delta R.T. 0.00 min  
Lab File: BM027891.D  
Acq: 21 Nov 2020 21:08

Instrument :  
BNA\_M  
ClientSampleId :  
C0B36

| Tot Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 9.4   | 0.0        | 29.3       |
| 100     | 7.3   | 0.0        | 27.4       |

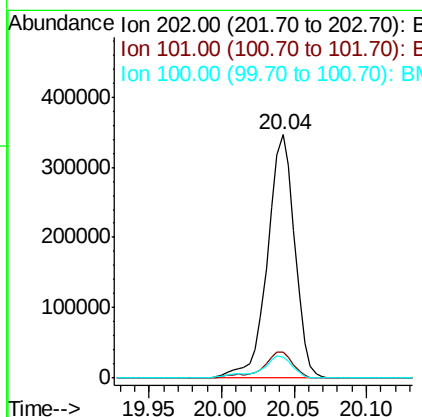
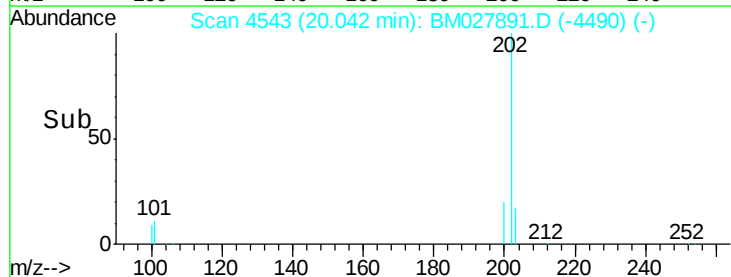
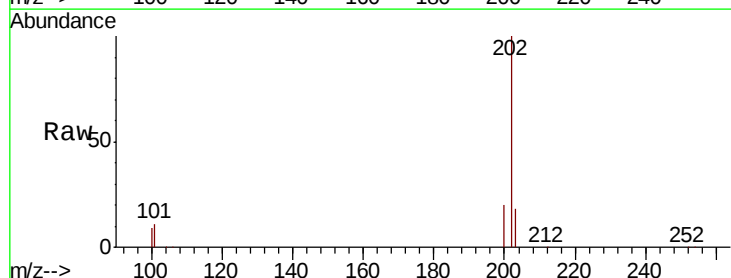
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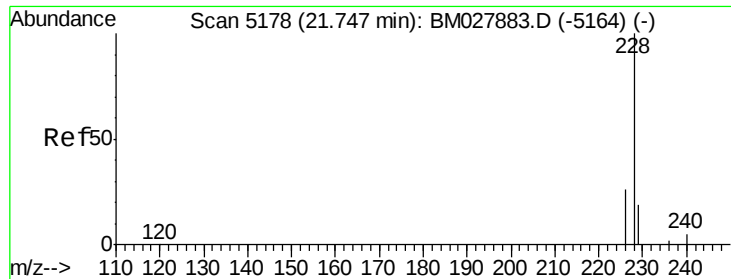
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#17  
Pyrene  
Concen: 27.060 ng/ul  
RT: 20.04 min Scan# 4543  
Delta R.T. 0.00 min  
Lab File: BM027891.D  
Acq: 21 Nov 2020 21:08

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 10.6  | 8.2        | 12.2       |
| 100     | 8.8   | 6.9        | 10.3       |





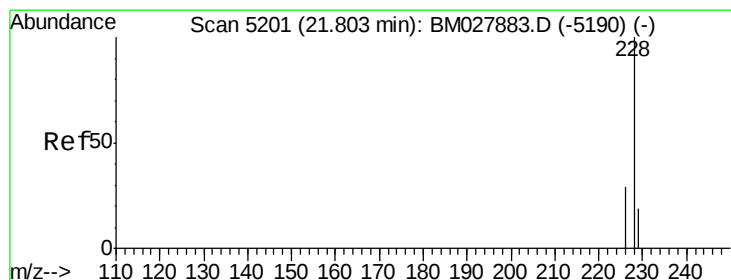
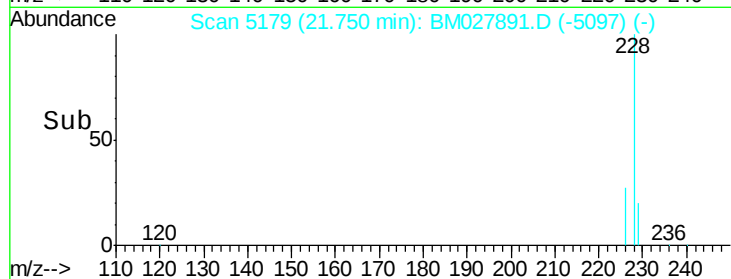
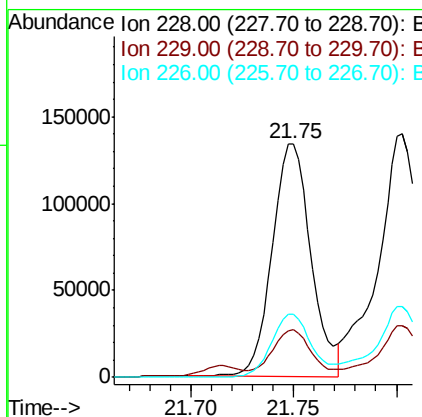
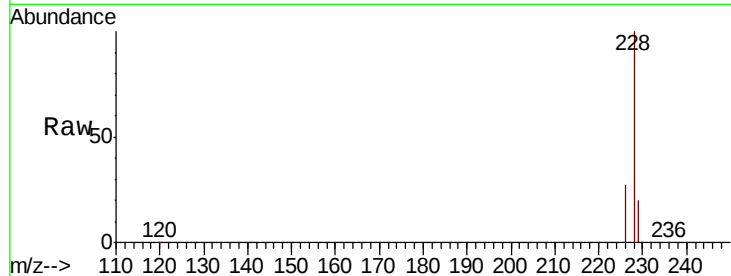
#18  
Benzo(a)anthracene  
Concen: 13.311 ng/ul  
RT: 21.75 min Scan# 5179  
Delta R.T. -0.00 min  
Lab File: BM027891.D  
Acq: 21 Nov 2020 21:08

Instrument :  
BNA\_M  
ClientSampleId :  
C0B36

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.4  | 16.2  | 24.4  |
| 226     | 26.7  | 21.5  | 32.3  |

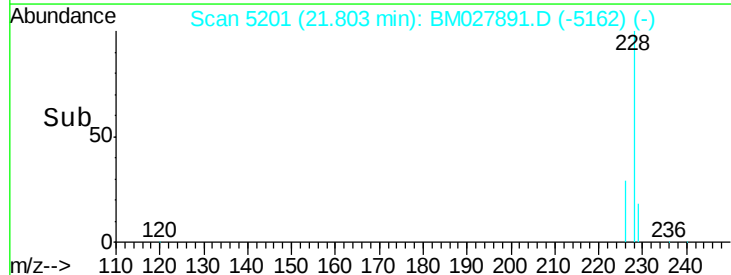
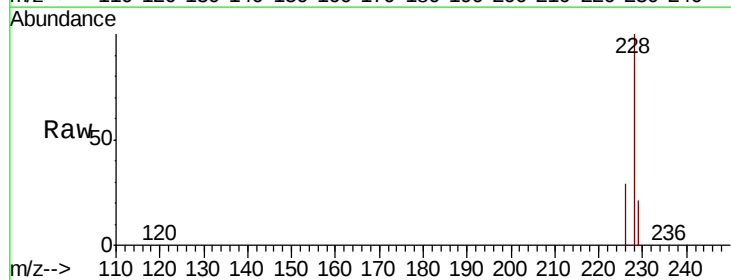
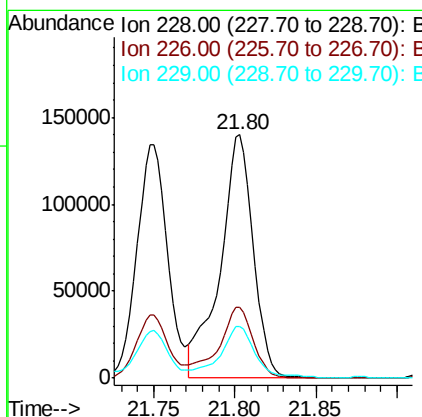
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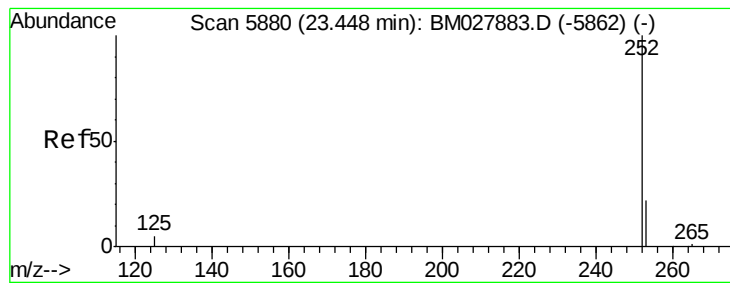
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#19  
Chrysene  
Concen: 15.442 ng/ul  
RT: 21.80 min Scan# 5201  
Delta R.T. -0.00 min  
Lab File: BM027891.D  
Acq: 21 Nov 2020 21:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.3  | 24.1  | 36.1  |
| 229     | 21.4  | 16.6  | 24.8  |





#21

Benzo(b)fluoranthene

Concen: 18.261 ng/ul m

RT: 23.45 min Scan# 5881

Delta R.T. 0.00 min

Lab File: BM027891.D

Acq: 21 Nov 2020 21:08

Instrument :

BNA\_M

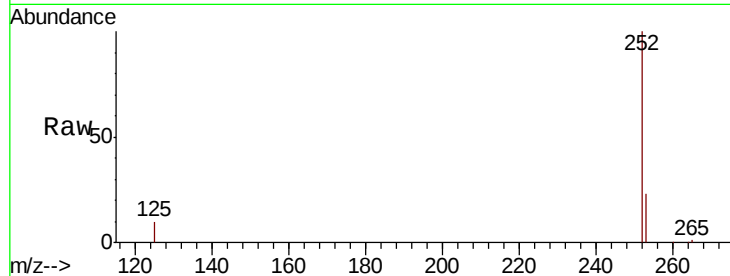
ClientSampleId :

C0B36

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.7  | 0.0   | 59.6  |
| 125     | 9.7   | 0.0   | 28.4  |

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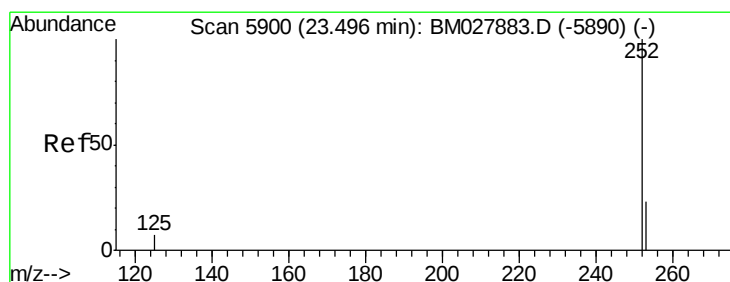
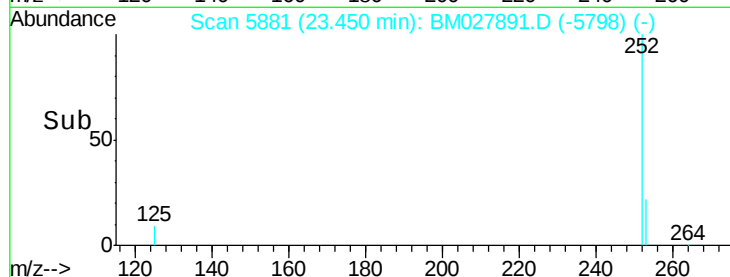
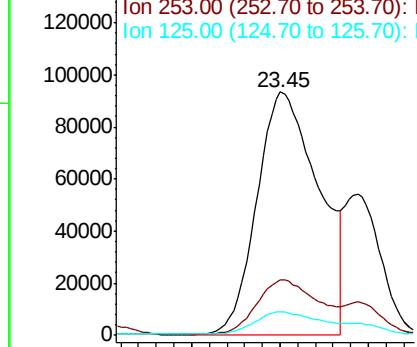


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#22

Benzo(k)fluoranthene

Concen: 6.150 ng/ul m

RT: 23.49 min Scan# 5899

Delta R.T. -0.00 min

Lab File: BM027891.D

Acq: 21 Nov 2020 21:08

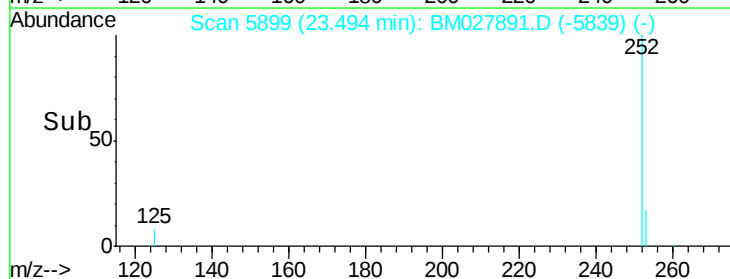
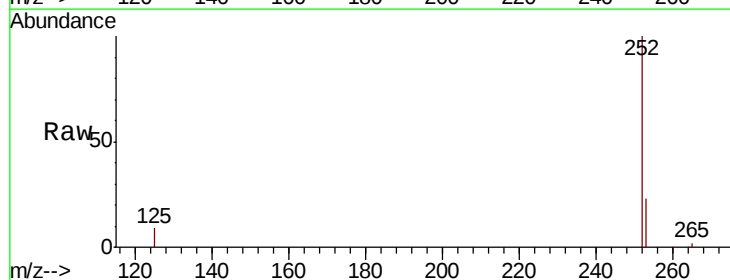
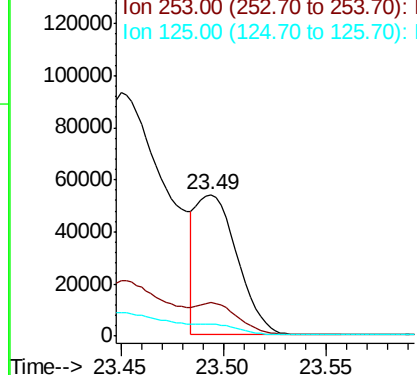
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.5  | 23.2  | 34.8  |
| 125     | 8.6   | 11.8  | 17.6# |

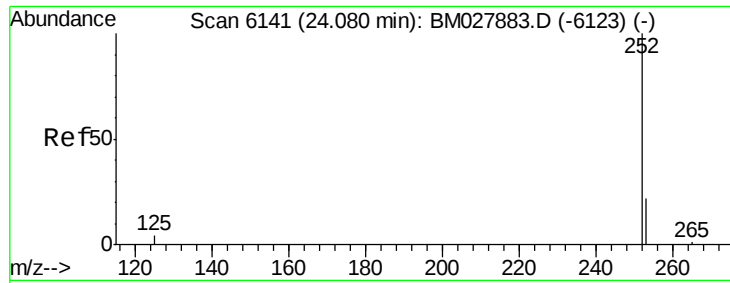
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#23

Benzo(a)pyrene

Concen: 13.451 ng/ul

RT: 24.08 min Scan# 6141

Delta R.T. 0.00 min

Lab File: BM027891.D

Acq: 21 Nov 2020 21:08

Instrument :

BNA\_M

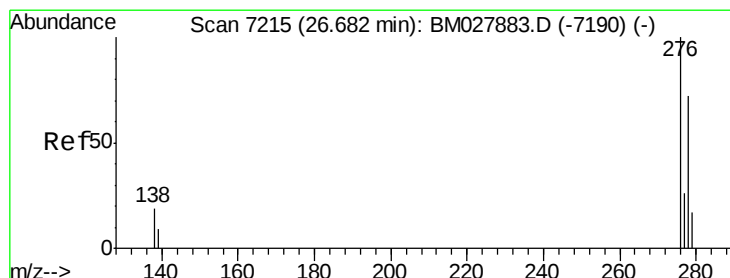
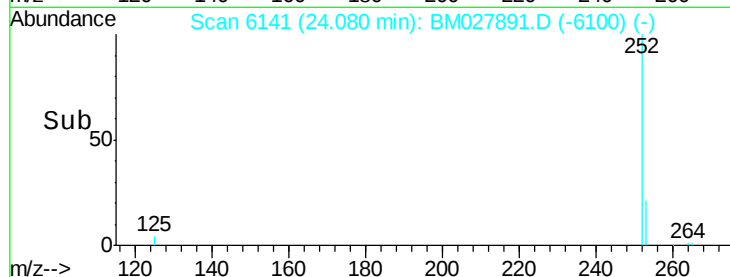
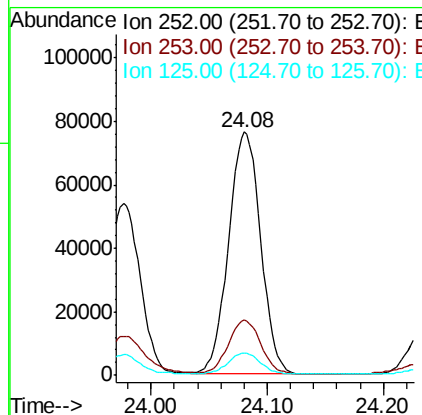
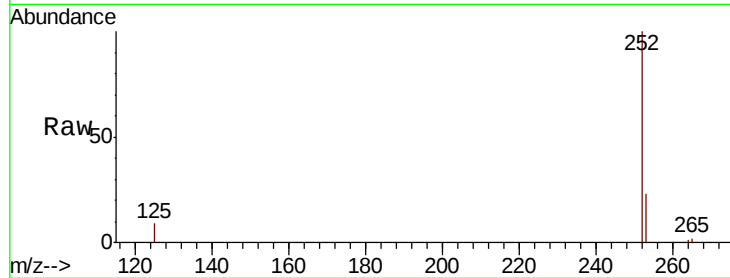
ClientSampleId :

C0B36

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.7  | 25.2  | 37.8# |
| 125     | 9.2   | 13.8  | 20.6# |

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#24

Indeno(1,2,3-cd)pyrene

Concen: 8.588 ng/ul

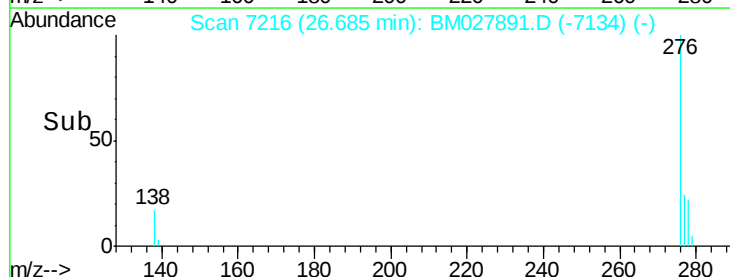
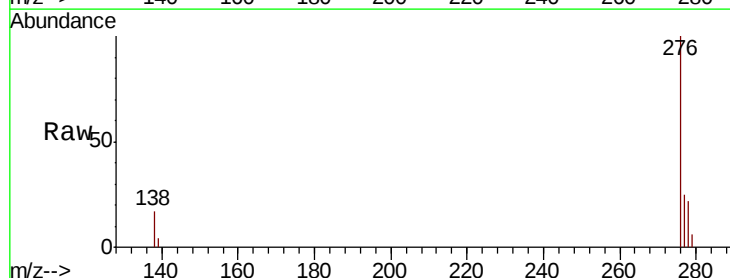
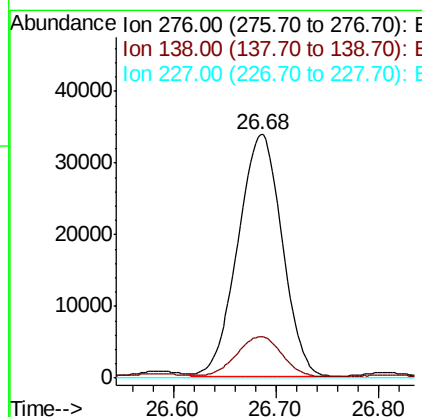
RT: 26.68 min Scan# 7216

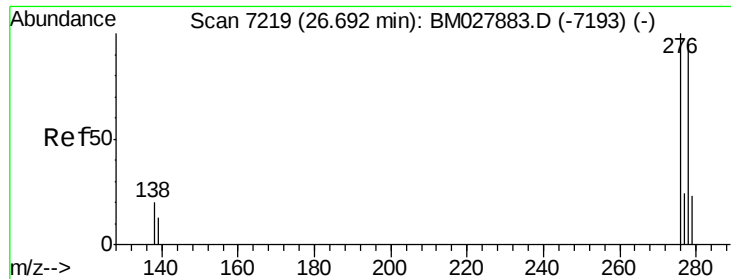
Delta R.T. -0.00 min

Lab File: BM027891.D

Acq: 21 Nov 2020 21:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 17.1  | 15.7  | 23.5  |
| 227     | 0.0   | 0.0   | 0.0   |





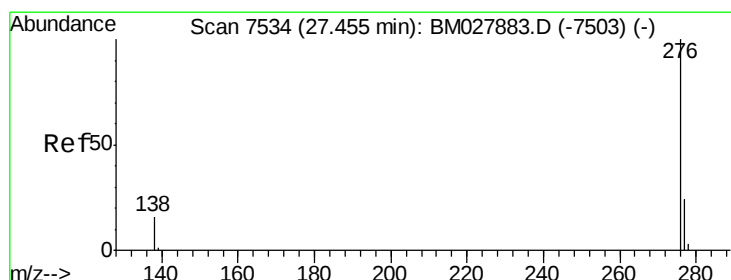
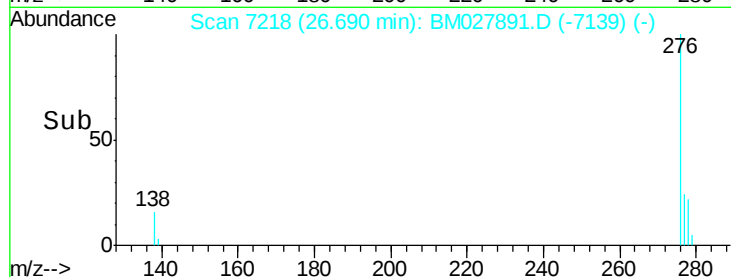
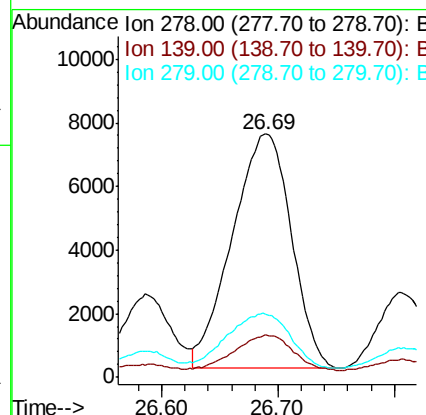
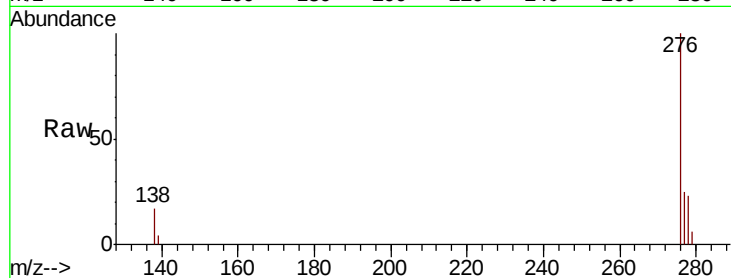
#25  
Dibenzo(a,h)anthracene  
Concen: 2.660 ng/ul  
RT: 26.69 min Scan# 7218  
Delta R.T. -0.01 min  
Lab File: BM027891.D  
Acq: 21 Nov 2020 21:08

Instrument :  
BNA\_M  
ClientSampleId :  
C0B36

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 17.5  | 14.8  | 22.2  |
| 279     | 25.9  | 25.8  | 38.6  |

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#26  
Benzo(g,h,i)perylene  
Concen: 9.708 ng/ul  
RT: 27.46 min Scan# 7535  
Delta R.T. -0.00 min  
Lab File: BM027891.D  
Acq: 21 Nov 2020 21:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 17.4  | 17.4  | 26.2# |
| 277     | 24.1  | 22.5  | 33.7  |

