

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM080719\  
 Data File : BM021941.D  
 Acq On : 08 Aug 2019 19:56  
 Operator : HP/JU  
 Sample : K4029-14DL 5X  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BENY4DL

Manual Integrations  
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 8/9/2019 6:13:23 AM

Quant Time: Aug 09 01:55:08 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 09 01:29:50 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.62  | 152  | 986      | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.41 | 136  | 4240     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.28 | 164  | 2310     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.03 | 188  | 5078     | 0.40   | ng/ul  | -0.01    |
| 16) Chrysene-d12            | 21.23 | 240  | 4904     | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.45 | 264  | 5057m    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.03 | 152  | 267      | 0.04   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.07 | 212  | 655      | 0.04   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 7) Acenaphthylene           | 14.00 | 152  | 553      | 0.051  | ng/ul# | 71       |
| 12) Phenanthrene            | 17.07 | 178  | 3310     | 0.224  | ng/ul  | 98       |
| 13) Anthracene              | 17.17 | 178  | 741      | 0.059  | ng/ul# | 82       |
| 15) Fluoranthene            | 19.10 | 202  | 10367    | 0.524  | ng/ul  | 99       |
| 17) Pyrene                  | 19.46 | 202  | 9831     | 0.488  | ng/ul  | 96       |
| 18) Benzo(a)anthracene      | 21.22 | 228  | 5663     | 0.323  | ng/ul  | 96       |
| 19) Chrysene                | 21.27 | 228  | 5573     | 0.247  | ng/ul  | 96       |
| 21) Benzo(b)fluoranthene    | 22.78 | 252  | 8816m    | 0.517  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.83 | 252  | 3279m    | 0.170  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.35 | 252  | 5422     | 0.313  | ng/ul  | 94       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.66 | 276  | 4327     | 0.209  | ng/ul# | 96       |
| 25) Dibenzo(a,h)anthracene  | 25.67 | 278  | 987      | 0.059  | ng/ul# | 45       |
| 26) Benzo(g,h,i)perylene    | 26.35 | 276  | 3660     | 0.196  | ng/ul# | 94       |

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

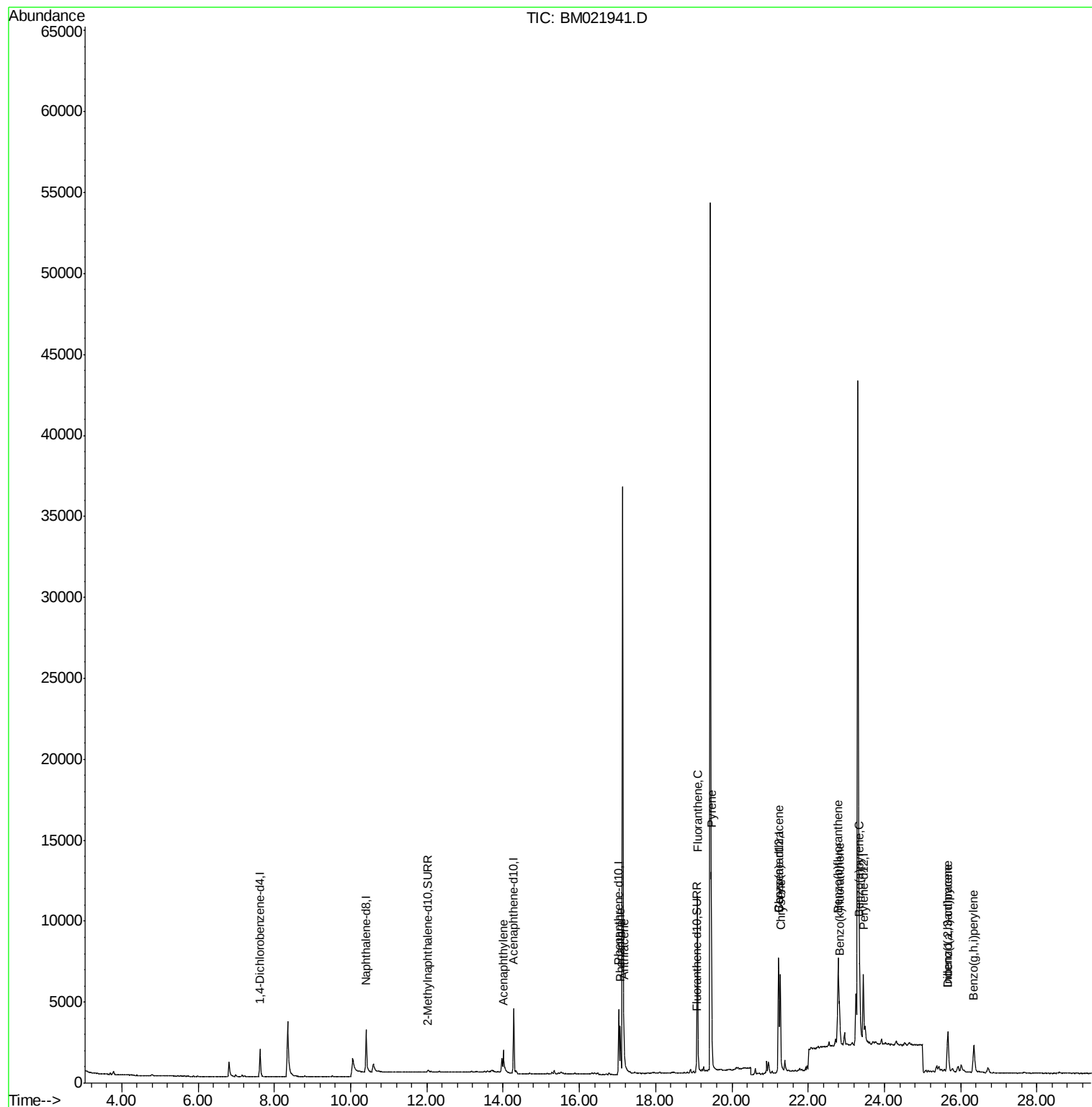
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM080719\  
Data File : BM021941.D  
Acq On : 08 Aug 2019 19:56  
Operator : HP/JU  
Sample : K4029-14DL 5X  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

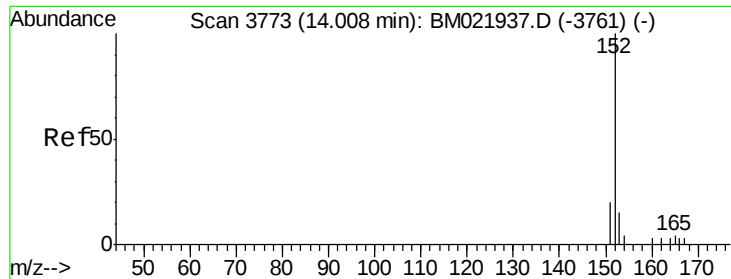
Instrument :  
BNA\_M  
ClientSampleId :  
BENY4DL

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Quant Time: Aug 09 01:55:08 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\SOM-EPA-SIM-BM080319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Aug 09 01:29:50 2019  
Response via : Initial Calibration





#7

Acenaphthylene

Concen: 0.051 ng/ul

RT: 14.00 min Scan# 3771

Delta R.T. -0.01 min

Lab File: BM021941.D

Acq: 08 Aug 2019 19:56

Instrument :

BNA\_M

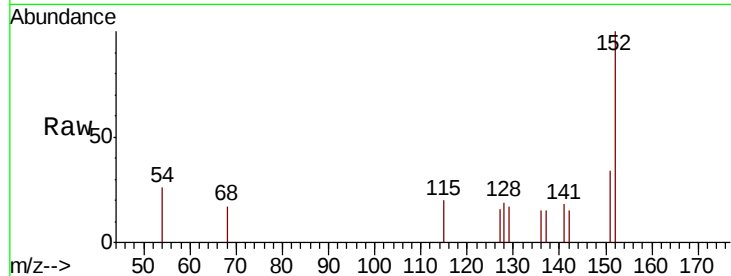
ClientSampleId :

BENY4DL

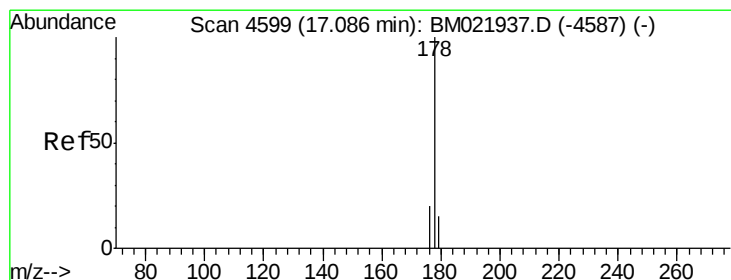
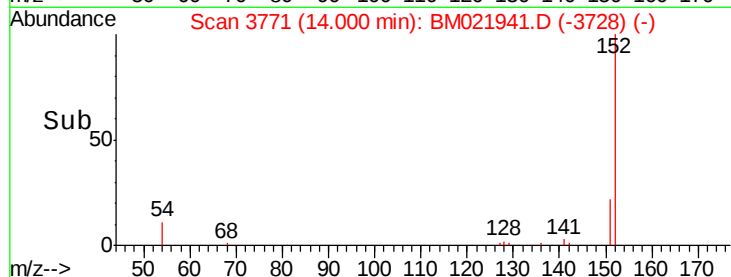
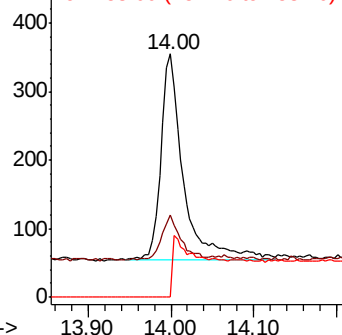
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 553   |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 33.8  | 18.3  | 27.5# |
| 153       | 0.0   | 12.8  | 19.2# |

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Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E



#12

Phenanthrene

Concen: 0.224 ng/ul

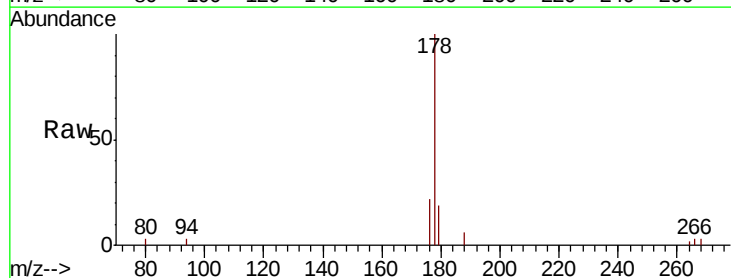
RT: 17.07 min Scan# 4595

Delta R.T. -0.01 min

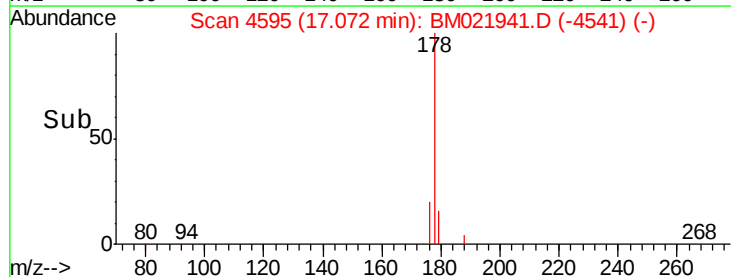
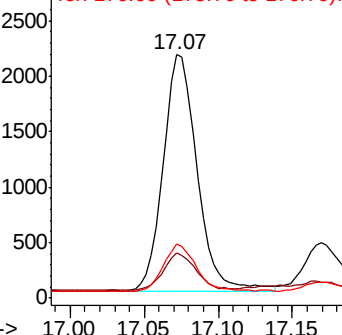
Lab File: BM021941.D

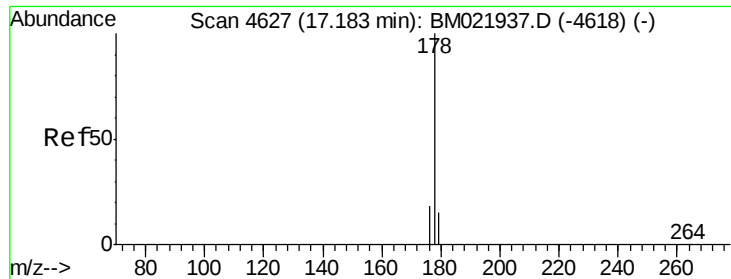
Acq: 08 Aug 2019 19:56

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 178   | Resp: | 3310 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 179       | 18.5  | 14.2  | 21.2 |
| 176       | 22.2  | 16.8  | 25.2 |



Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 179.00 (178.70 to 179.70): E  
Ion 176.00 (175.70 to 176.70): E





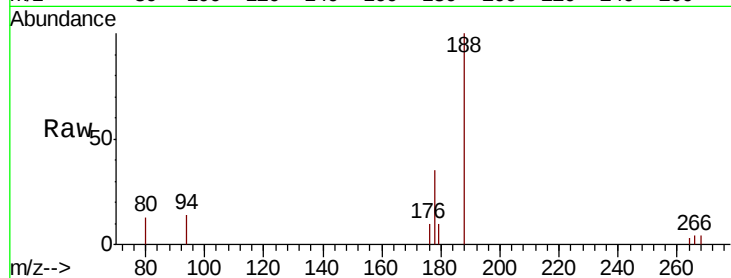
#13  
 Anthracene  
 Concen: 0.059 ng/ul  
 RT: 17.17 min Scan# 4623  
 Delta R.T. -0.01 min  
 Lab File: BM021941.D  
 Acq: 08 Aug 2019 19:56

Instrument :  
 BNA\_M  
 ClientSampled :  
 BENY4DL

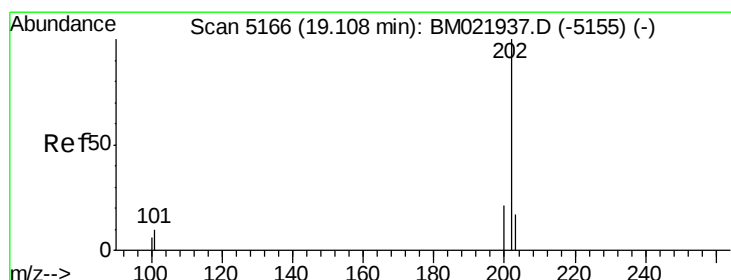
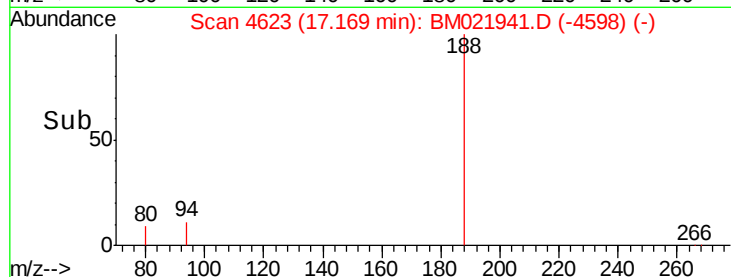
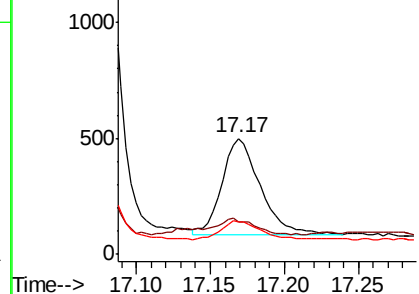
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 28.3  | 15.5  | 23.3# |
| 176     | 28.1  | 16.6  | 25.0# |

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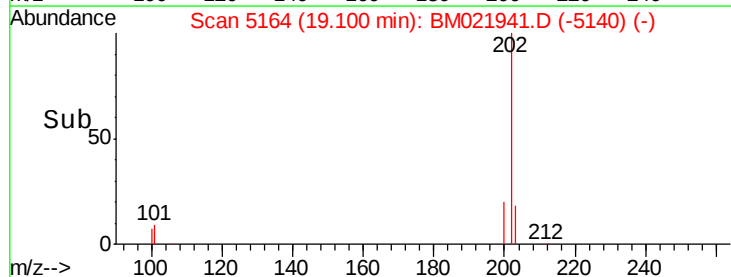
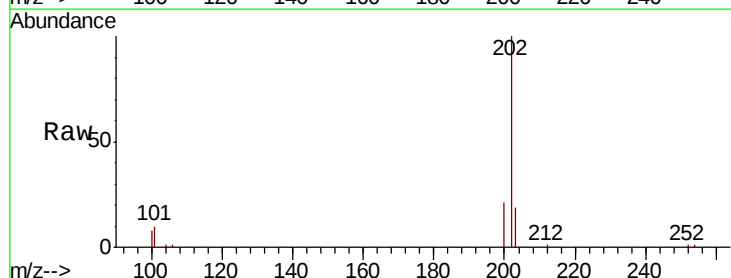
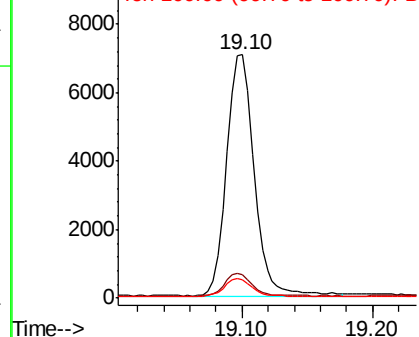
Abundance Ion 178.00 (177.70 to 178.70): E  
 Ion 179.00 (178.70 to 179.70): E  
 Ion 176.00 (175.70 to 176.70): E

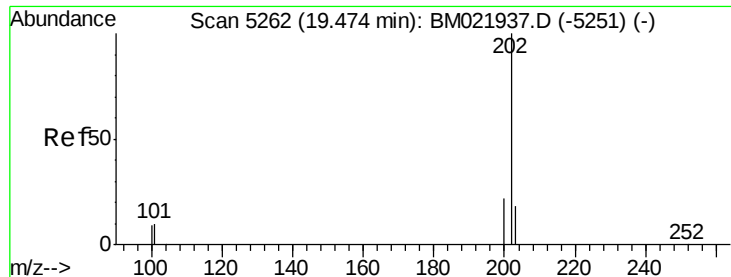


#15  
 Fluoranthene  
 Concen: 0.524 ng/ul  
 RT: 19.10 min Scan# 5164  
 Delta R.T. -0.01 min  
 Lab File: BM021941.D  
 Acq: 08 Aug 2019 19:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 9.8   | 0.0   | 30.2  |
| 100     | 7.5   | 0.0   | 28.1  |

Abundance Ion 202.00 (201.70 to 202.70): E  
 Ion 101.00 (100.70 to 101.70): E  
 Ion 100.00 (99.70 to 100.70): B





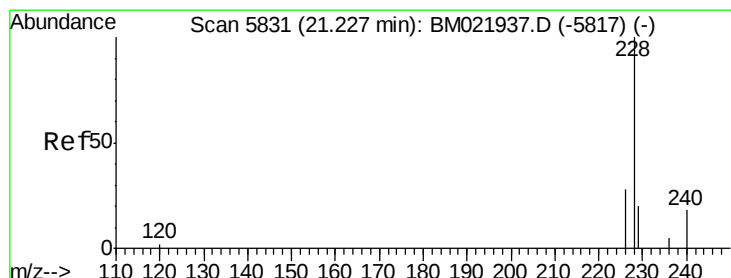
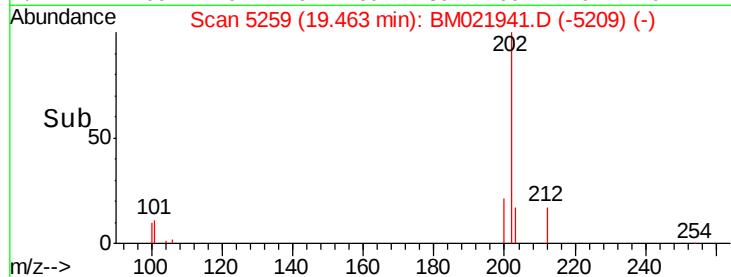
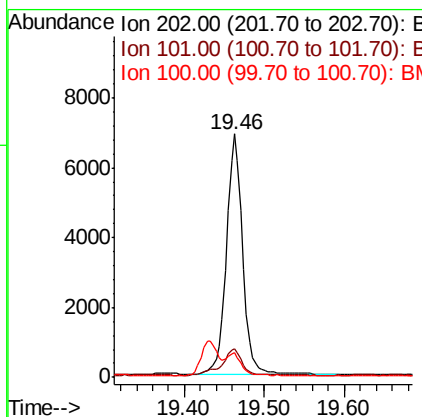
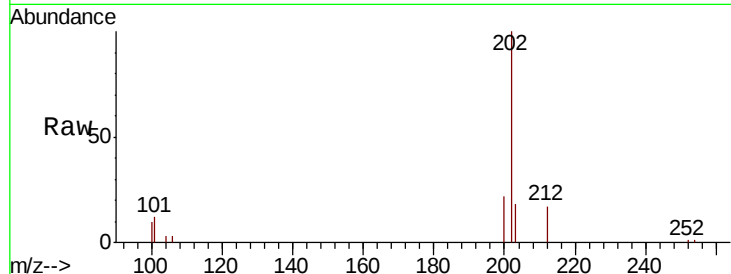
#17  
Pvrene  
Concen: 0.488 ng/ul  
RT: 19.46 min Scan# 5259  
Delta R.T. -0.01 min  
Lab File: BM021941.D  
Acq: 08 Aug 2019 19:56

Instrument :  
BNA\_M  
ClientSampleId :  
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| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.8  | 8.3   | 12.5  |
| 100     | 10.3  | 7.2   | 10.8  |

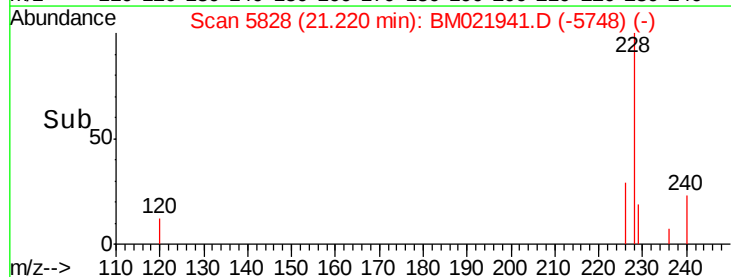
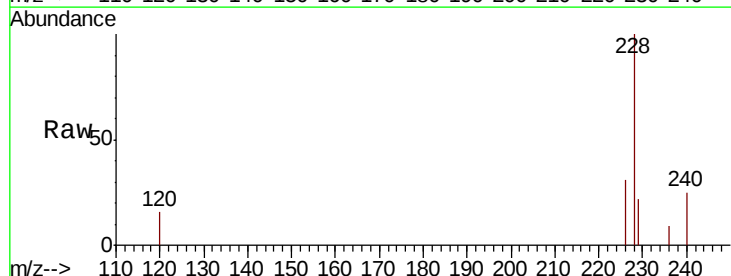
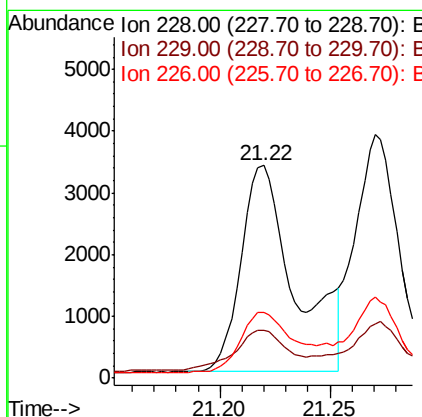
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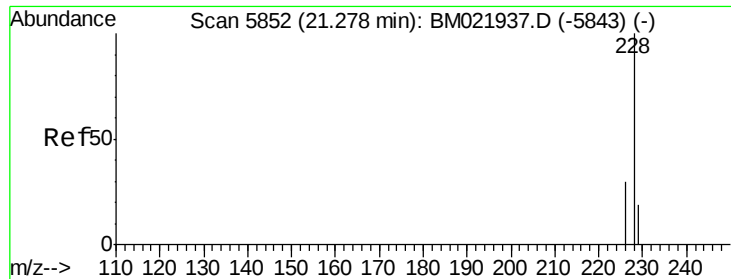
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#18  
Benzo(a)anthracene  
Concen: 0.323 ng/ul  
RT: 21.22 min Scan# 5828  
Delta R.T. -0.01 min  
Lab File: BM021941.D  
Acq: 08 Aug 2019 19:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 22.2  | 17.2  | 25.8  |
| 226     | 31.1  | 22.6  | 34.0  |





#19

Chrysene

Concen: 0.247 ng/ul

RT: 21.27 min Scan# 5849

Delta R.T. -0.01 min

Lab File: BM021941.D

Acq: 08 Aug 2019 19:56

Instrument :

BNA\_M

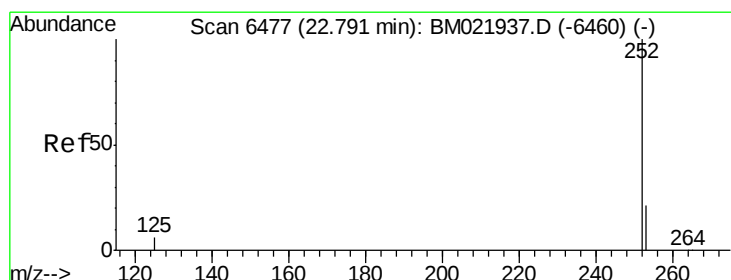
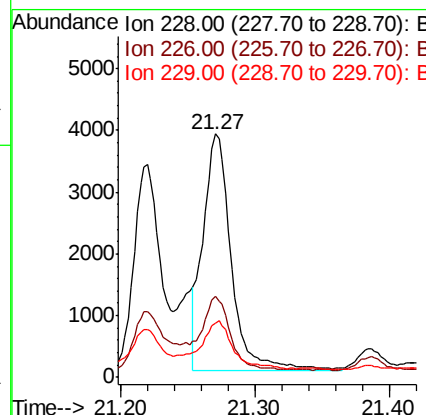
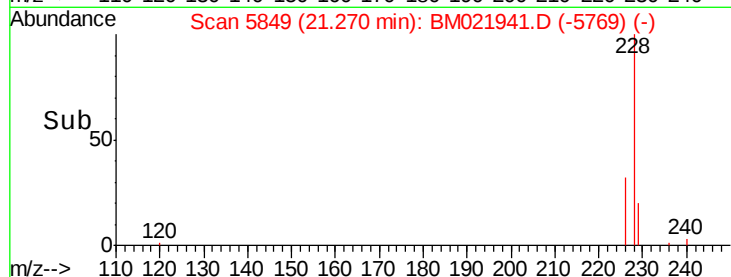
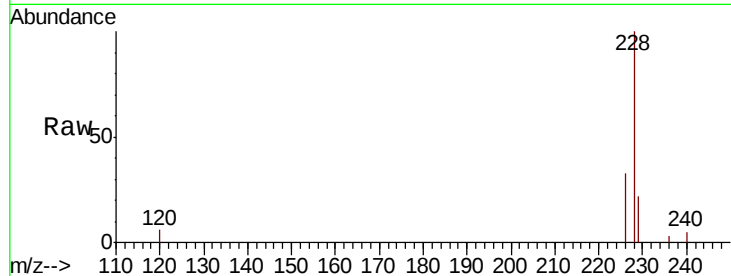
ClientSampled :

BENY4DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 228   | Resp: | 5573  |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 33.3  | 24.9  | 37.3  |
| 229      | 22.3  | 16.6  | 25.0  |

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#21

Benzo(b)fluoranthene

Concen: 0.517 ng/ul m

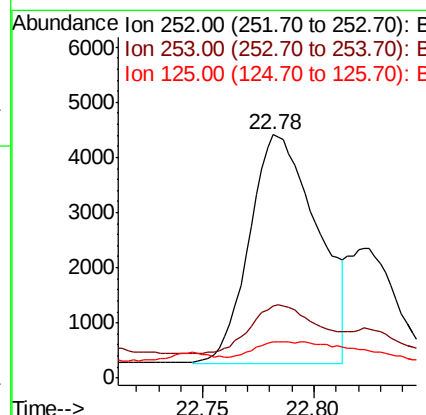
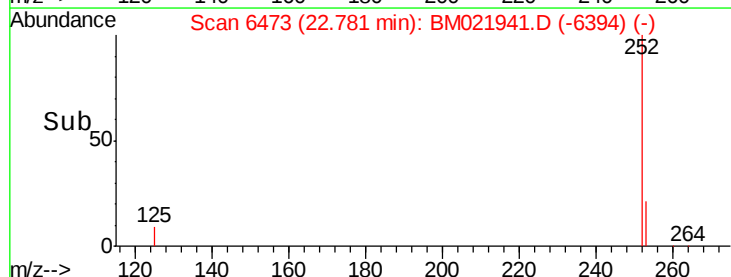
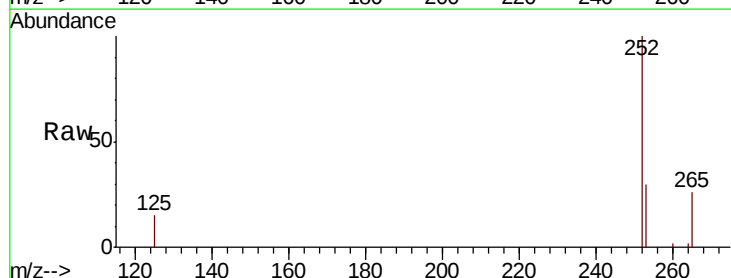
RT: 22.78 min Scan# 6473

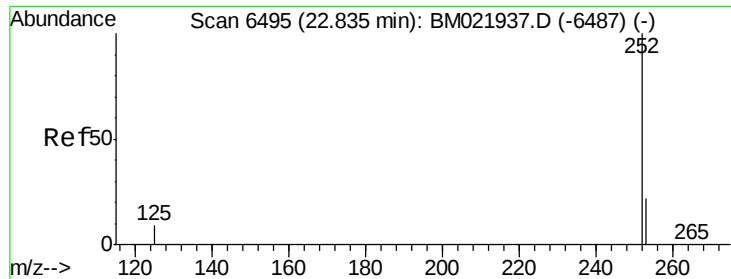
Delta R.T. -0.01 min

Lab File: BM021941.D

Acq: 08 Aug 2019 19:56

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 8816  |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 29.8  | 0.0   | 67.4  |
| 125      | 15.1  | 0.0   | 31.0  |





#22

Benzo(k)fluoranthene

Concen: 0.170 ng/ul

RT: 22.83 min Scan# 6491

Delta R.T. -0.01 min

Lab File: BM021941.D

Acq: 08 Aug 2019 19:56

Instrument :

BNA\_M

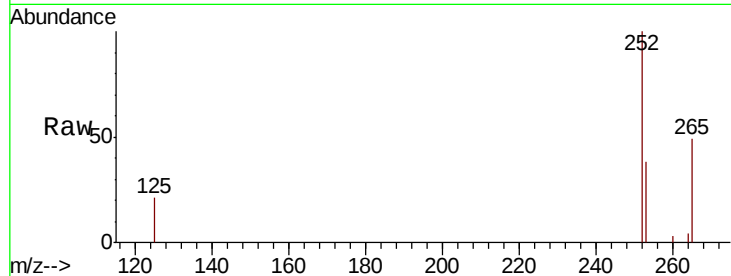
ClientSampleId :

BENY4DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 38.0  | 27.0  | 40.4  |
| 125     | 21.1  | 12.2  | 18.2  |

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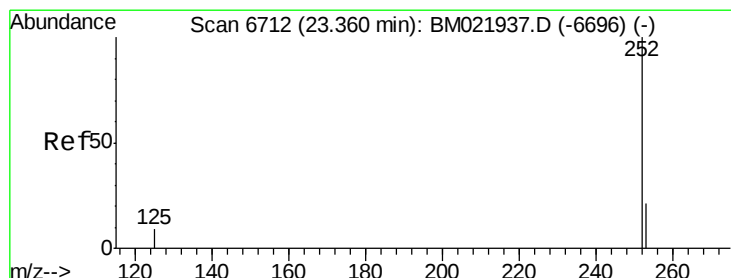
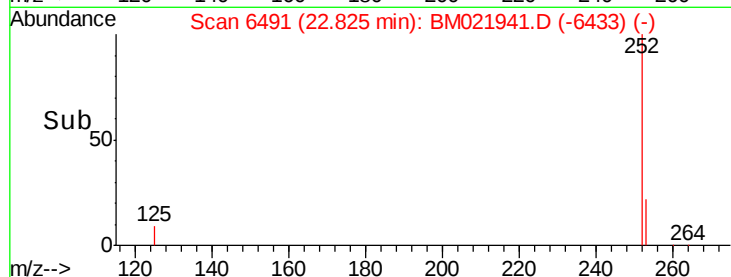
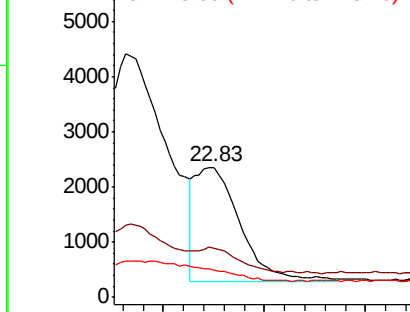


Abundance

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



#23

Benzo(a)pyrene

Concen: 0.313 ng/ul

RT: 23.35 min Scan# 6707

Delta R.T. -0.01 min

Lab File: BM021941.D

Acq: 08 Aug 2019 19:56

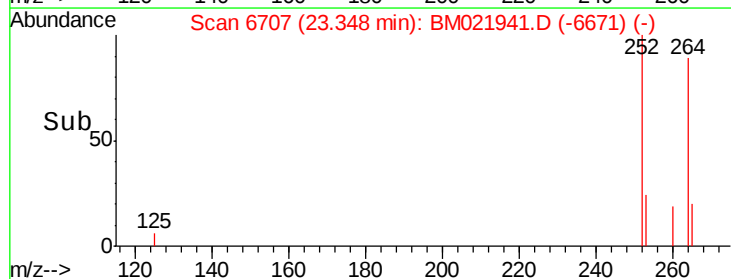
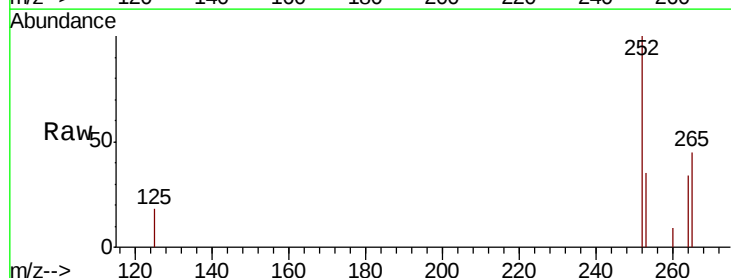
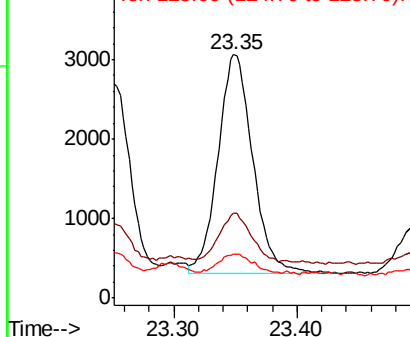
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 34.6  | 31.7  | 47.5  |
| 125     | 18.0  | 14.6  | 21.8  |

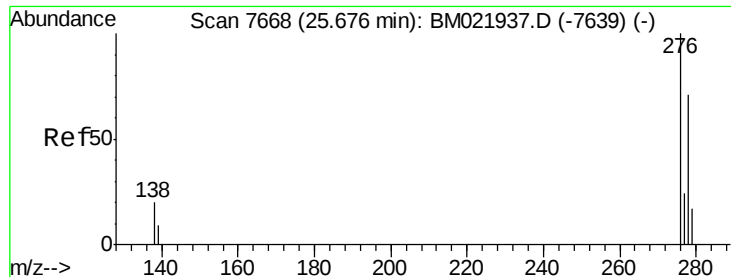
Abundance

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





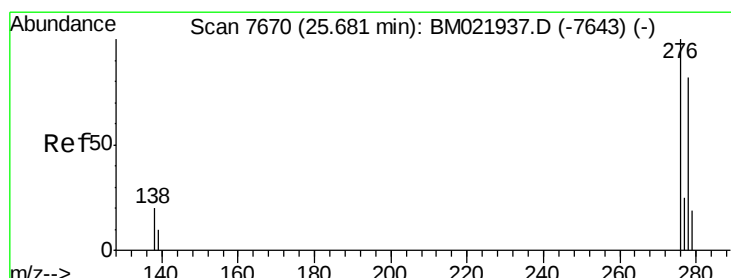
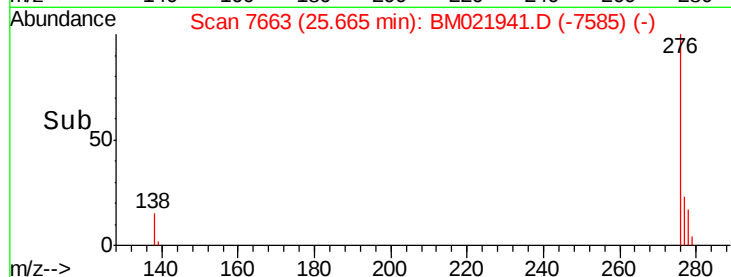
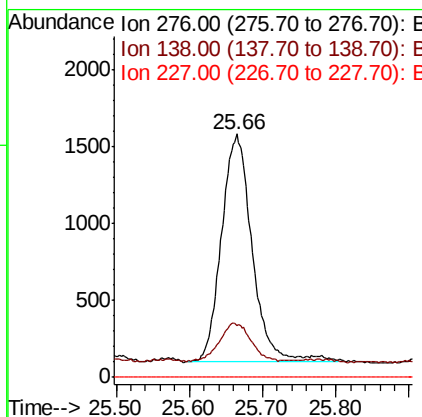
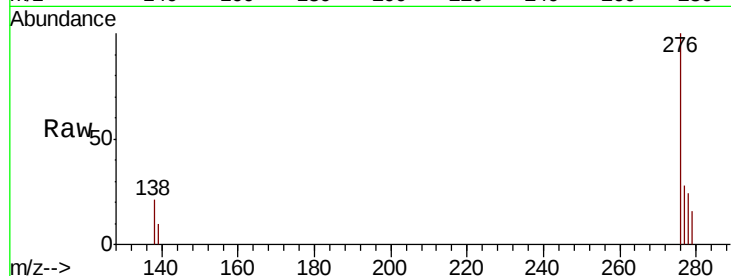
#24  
Indeno(1,2,3-cd)pyrene  
Concen: 0.209 ng/u1  
RT: 25.66 min Scan# 7663  
Delta R.T. -0.01 min  
Lab File: BM021941.D  
Acq: 08 Aug 2019 19:56

Instrument :  
BNA\_M  
ClientSampleId :  
BENY4DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 17.1  | 15.1  | 22.7  |
| 227     | 0.0   | 0.0   | 0.0   |

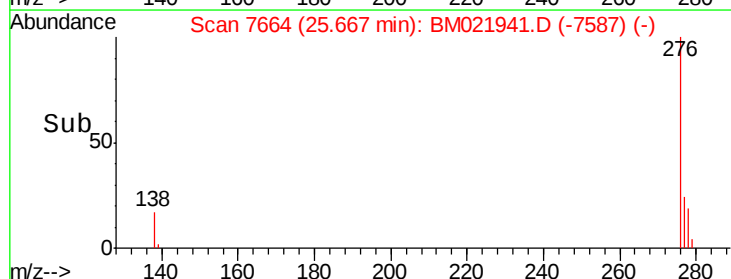
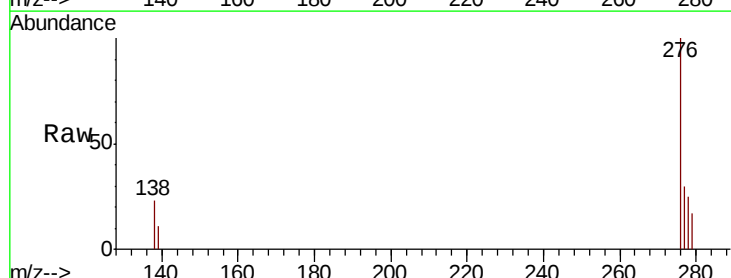
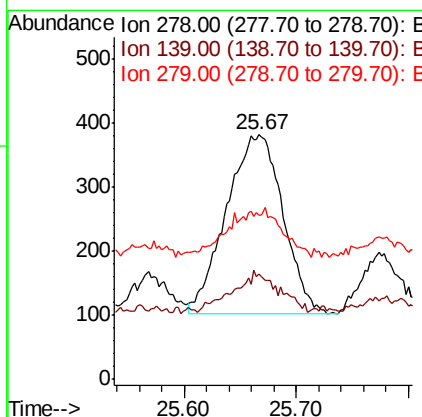
Manual Integrations  
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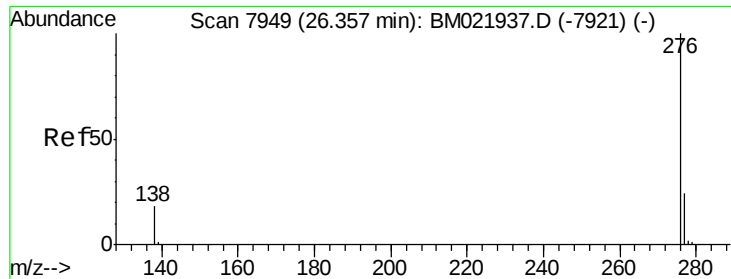
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#25  
Dibenzo(a,h)anthracene  
Concen: 0.059 ng/u1  
RT: 25.67 min Scan# 7664  
Delta R.T. -0.01 min  
Lab File: BM021941.D  
Acq: 08 Aug 2019 19:56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 42.8  | 14.2  | 21.2# |
| 279     | 67.2  | 28.3  | 42.5# |





#26  
Benzo(a,h,i)perylene  
Concen: 0.196 ng/ul  
RT: 26.35 min Scan# 7944  
Delta R.T. -0.01 min  
Lab File: BM021941.D  
Acq: 08 Aug 2019 19:56

Instrument :  
BNA\_M  
ClientSampleId :  
BENY4DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 23.6  | 15.5  | 23.3# |
| 277     | 28.4  | 21.4  | 32.2  |

Manual Integrations  
APPROVED

mohammad  
8/9/2019 6:13:23 AM

