

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM122118\  
 Data File : BM018369.D  
 Acq On : 21 Dec 2018 22:29  
 Operator : JU/SJ  
 Sample : J6493-01  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SOIL-DRUM

Manual Integrations  
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Quant Time: Dec 22 05:40:03 2018  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM121518.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Dec 15 21:39:37 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.48  | 152  | 115529   | 20.00  | ng    | -0.02    |
| 21) Naphthalene-d8          | 10.25 | 136  | 458842   | 20.00  | ng    | -0.02    |
| 39) Acenaphthene-d10        | 14.14 | 164  | 264129   | 20.00  | ng    | -0.02    |
| 64) Phenanthrene-d10        | 16.92 | 188  | 556141   | 20.00  | ng    | 0.00     |
| 76) Chrysene-d12            | 21.14 | 240  | 465061   | 20.00  | ng    | 0.00     |
| 87) Perylene-d12            | 23.31 | 264  | 509660   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds |       |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.13  | 112  | 806661   | 116.64 | ng    | 0.00     |
| 7) Phenol-d6                | 6.70  | 99   | 1089635  | 113.36 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 8.65  | 82   | 718489   | 80.32  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 15.66 | 330  | 376043   | 97.00  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 12.75 | 172  | 1334522  | 65.44  | ng    | -0.02    |
| 79) Terphenyl-d14           | 19.57 | 244  | 1635223  | 79.52  | ng    | 0.00     |
| Target Compounds            |       |      |          |        |       |          |
| 10) Phenol                  | 6.73  | 94   | 57596    | 5.658  | ng    | 88       |
| 50) Dimethylphthalate       | 13.62 | 163  | 136888   | 6.234  | ng    | 100      |
| 71) Phenanthrene            | 16.96 | 178  | 97650    | 3.233  | ng    | 96       |
| 75) Fluoranthene            | 18.99 | 202  | 208952   | 5.949  | ng    | 97       |
| 78) Pyrene                  | 19.36 | 202  | 178586   | 6.445  | ng    | 97       |
| 81) Benzo(a)anthracene      | 21.13 | 228  | 89199    | 3.283  | ng    | 94       |
| 83) Chrysene                | 21.17 | 228  | 90247m   | 3.454  | ng    |          |
| 86) Indeno(1,2,3-cd)pyrene  | 25.46 | 276  | 80088    | 3.077  | ng    | 93       |
| 88) Benzo(b)fluoranthene    | 22.67 | 252  | 145027   | 5.066  | ng    | # 91     |
| 90) Benzo(a)pyrene          | 23.21 | 252  | 97300    | 3.573  | ng    | # 91     |
| 92) Benzo(g,h,i)perylene    | 26.11 | 276  | 75873    | 3.182  | ng    | # 93     |

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

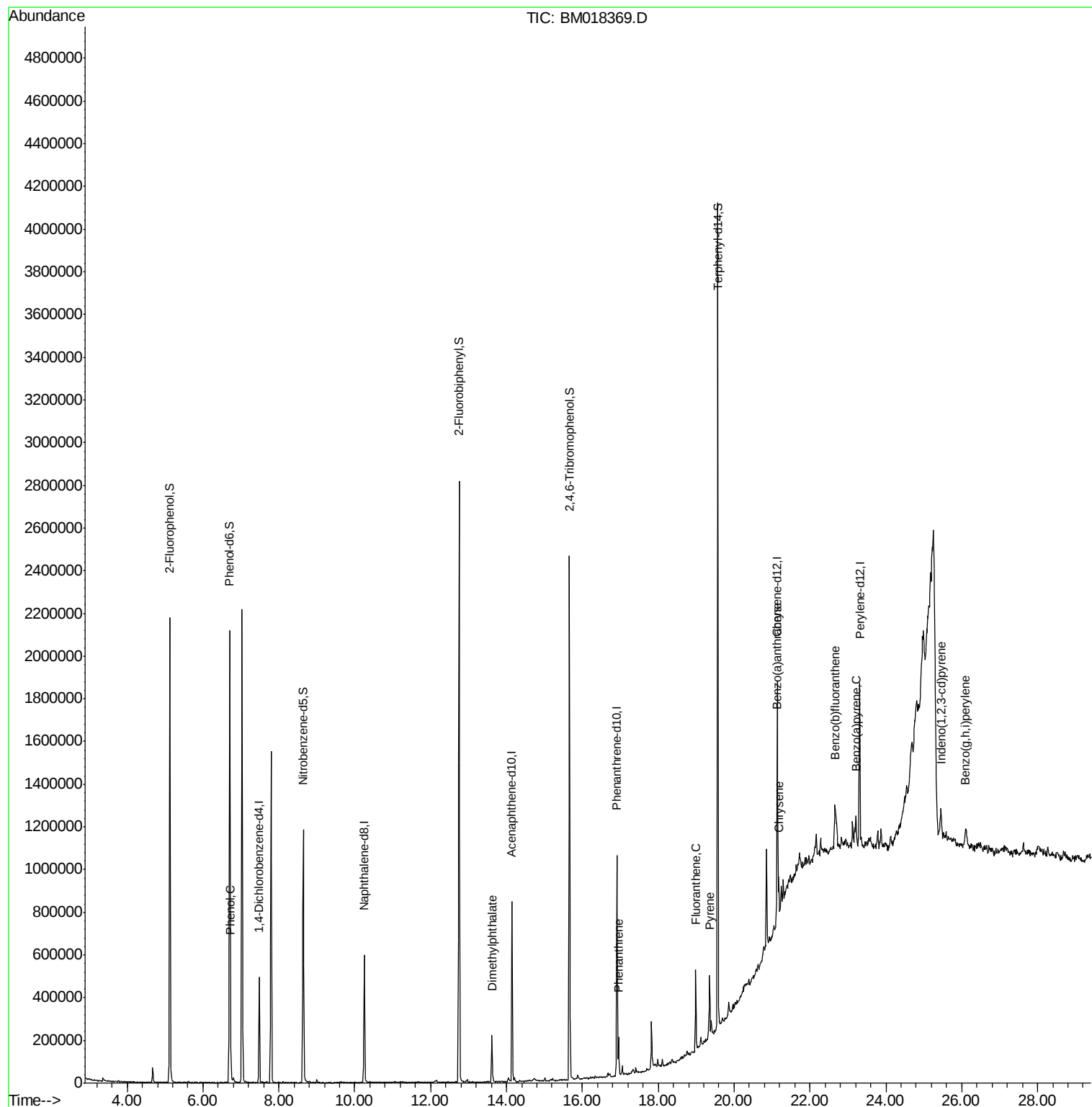
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM122118\  
Data File : BM018369.D  
Acq On : 21 Dec 2018 22:29  
Operator : JU/SJ  
Sample : J6493-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

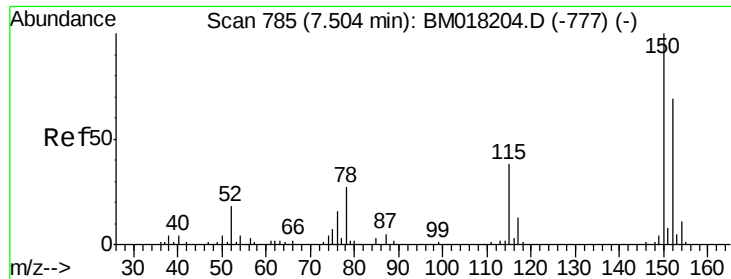
Instrument :  
BNA\_M  
ClientSampleId :  
SOIL-DRUM

Manual Integrations  
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Quant Time: Dec 22 05:40:03 2018  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA M\METHODS\8270-BM121518.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Dec 15 21:39:37 2018  
Response via : Initial Calibration





#1

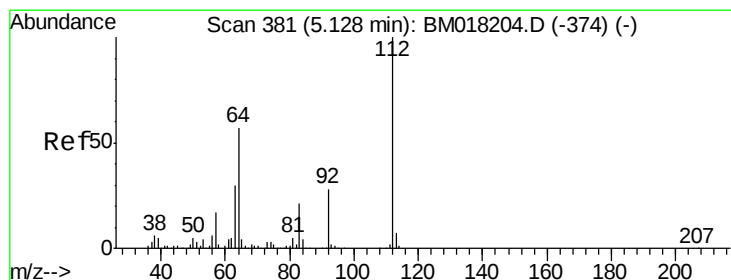
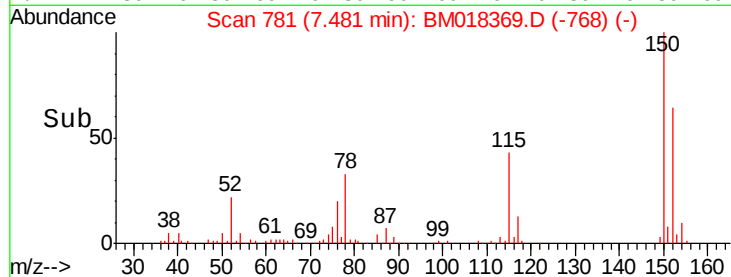
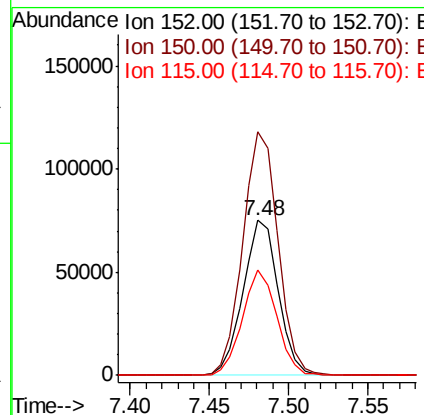
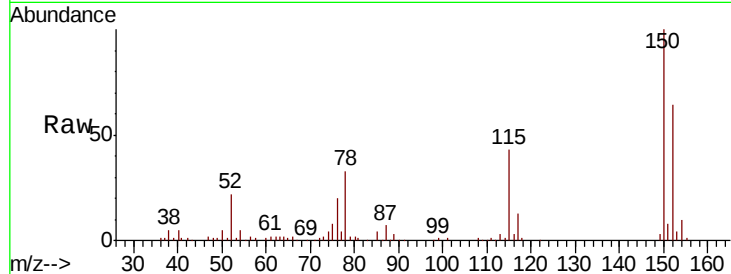
1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 7.48 min Scan# 781  
 Delta R.T. -0.02 min  
 Lab File: BM018369.D  
 Acq: 21 Dec 2018 22:29

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SOIL-DRUM

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 157.0 | 116.1 | 174.1 |
| 115     | 68.0  | 44.6  | 67.0  |

Manual Integrations  
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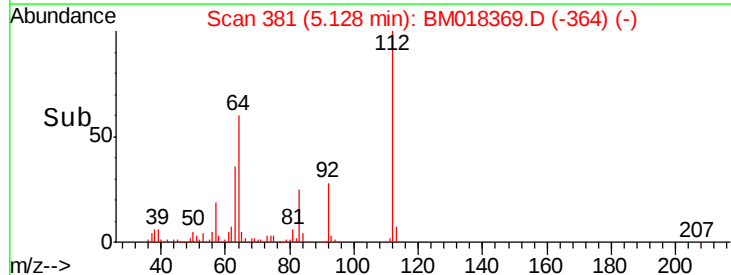
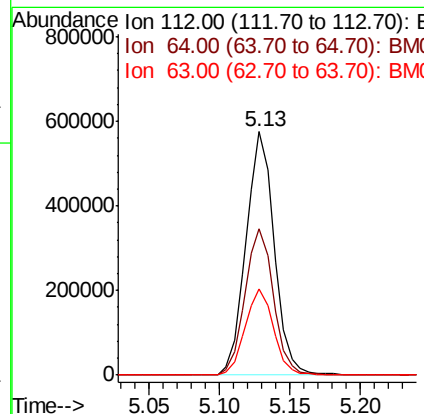
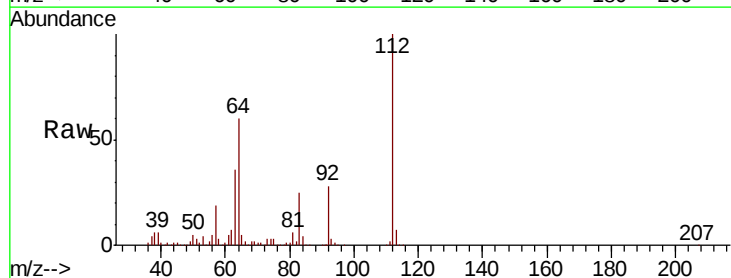
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#5

2-Fluorophenol  
 Concen: 116.639 ng  
 RT: 5.13 min Scan# 381  
 Delta R.T. -0.00 min  
 Lab File: BM018369.D  
 Acq: 21 Dec 2018 22:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 60.3  | 45.4  | 68.2  |
| 63      | 35.6  | 24.0  | 36.0  |





#7

Phenol-d6

Concen: 113.355 ng

RT: 6.70 min Scan# 649

Delta R.T. -0.00 min

Lab File: BM018369.D

Acq: 21 Dec 2018 22:29

Instrument :

BNA\_M

ClientSampleId :

SOIL-DRUM

Tot Ion: 99 Resp: 1089635

Ion Ratio Lower Upper

99 100

42 17.4 12.3 18.5

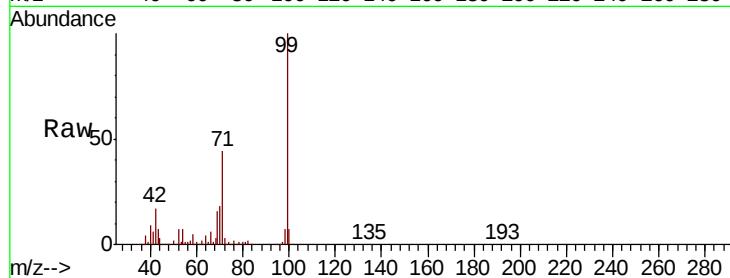
71 43.8 30.2 45.2

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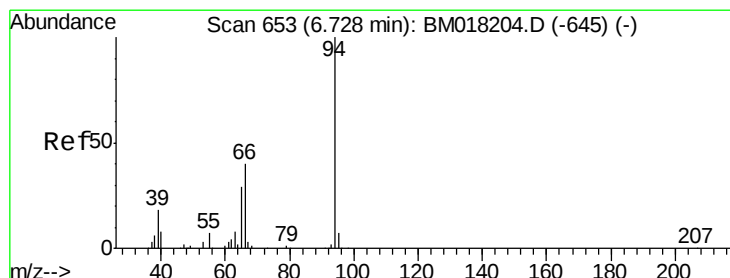
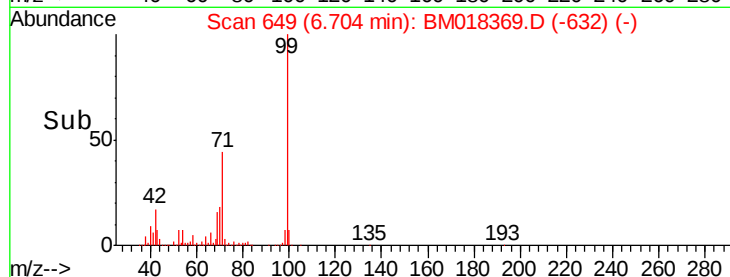
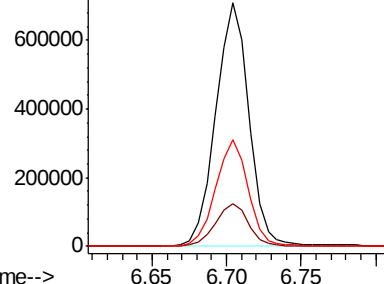
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Abundance Ion 99.00 (98.70 to 99.70): BM018369.D (-632) (-)

Ion 42.00 (41.70 to 42.70): BM018369.D (-632) (-)

Ion 71.00 (70.70 to 71.70): BM018369.D (-632) (-)



#10

Phenol

Concen: 5.658 ng

RT: 6.73 min Scan# 653

Delta R.T. -0.00 min

Lab File: BM018369.D

Acq: 21 Dec 2018 22:29

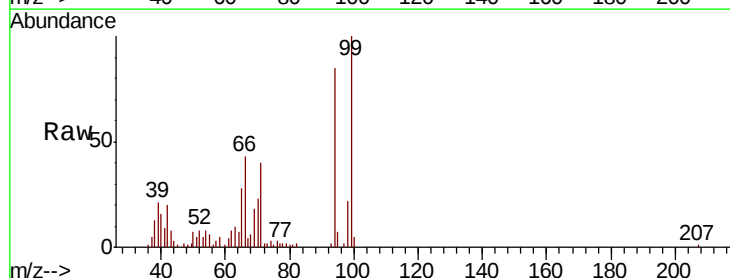
Tgt Ion: 94 Resp: 57596

Ion Ratio Lower Upper

94 100

65 33.4 9.5 49.5

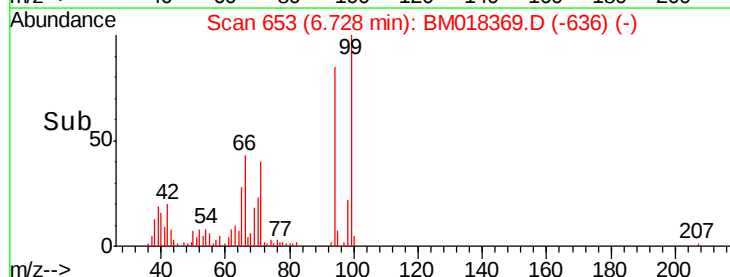
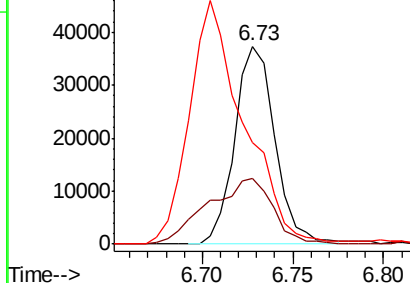
66 51.1 21.3 61.3

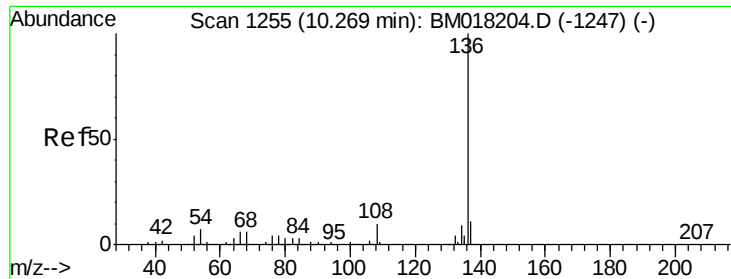


Abundance Ion 94.00 (93.70 to 94.70): BM018369.D (-636) (-)

Ion 65.00 (64.70 to 65.70): BM018369.D (-636) (-)

Ion 66.00 (65.70 to 66.70): BM018369.D (-636) (-)





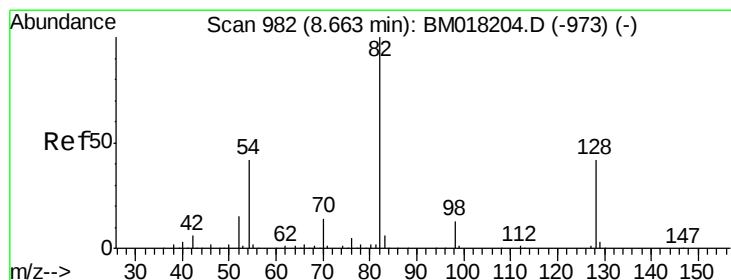
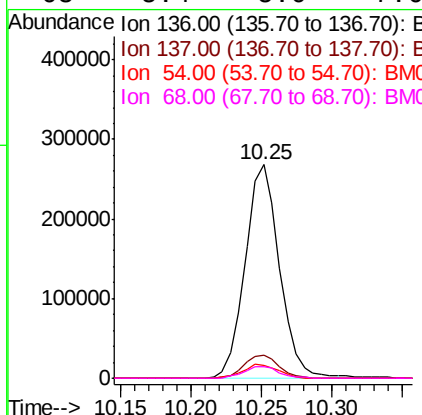
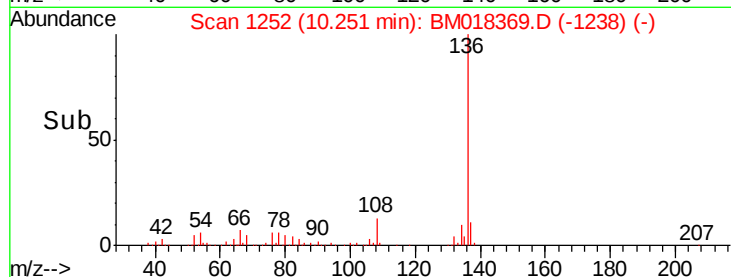
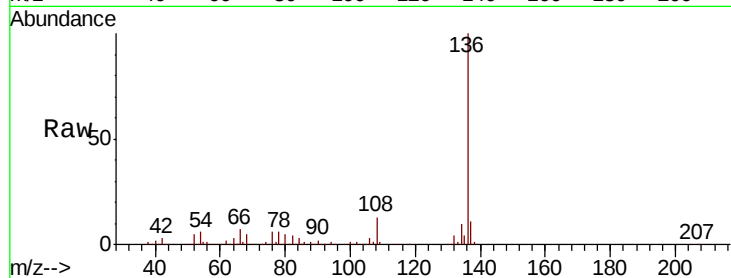
#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 10.25 min Scan# 1252  
Delta R.T. -0.02 min  
Lab File: BM018369.D  
Acq: 21 Dec 2018 22:29

Instrument :  
BNA\_M  
ClientSampleId :  
SOIL-DRUM

| Tot Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 136     | 100  |       | 458842 |       |       |
| 137     | 11.0 |       | 9.2    | 13.8  |       |
| 54      | 6.2  |       | 5.2    | 7.8   |       |
| 68      | 5.4  |       | 5.0    | 7.6   |       |

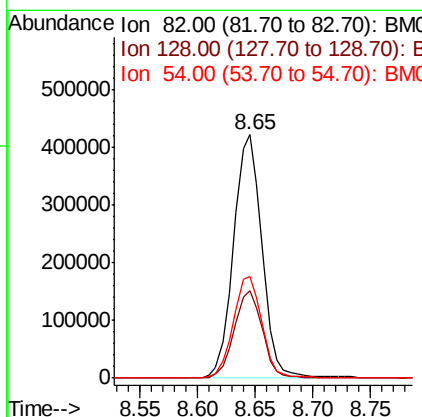
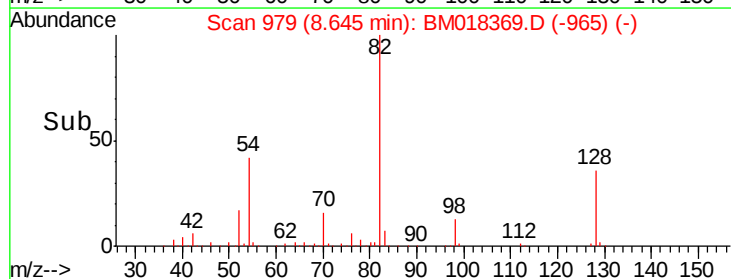
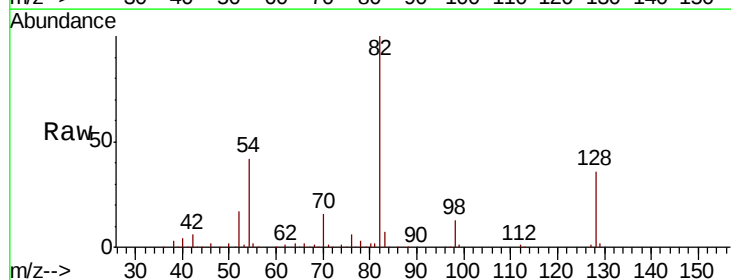
Manual Integrations  
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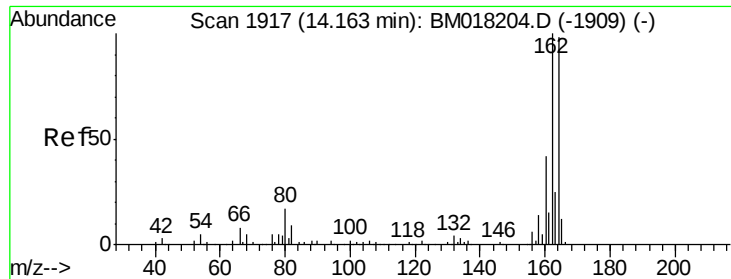
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#23  
Nitrobenzene-d5  
Concen: 80.319 ng  
RT: 8.65 min Scan# 979  
Delta R.T. -0.02 min  
Lab File: BM018369.D  
Acq: 21 Dec 2018 22:29

| Tgt Ion | Ion  | Ratio | Resp   | Lower | Upper |
|---------|------|-------|--------|-------|-------|
| 82      | 100  |       | 718489 |       |       |
| 128     | 36.0 |       | 33.4   | 50.2  |       |
| 54      | 41.8 |       | 33.4   | 50.2  |       |





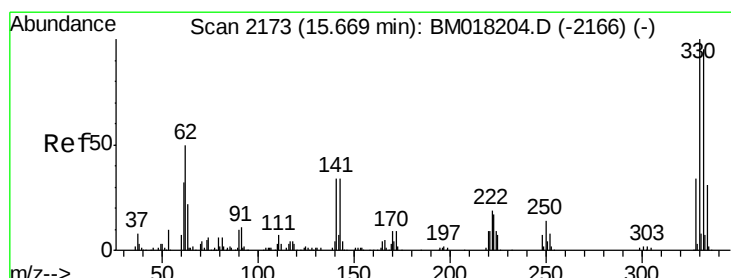
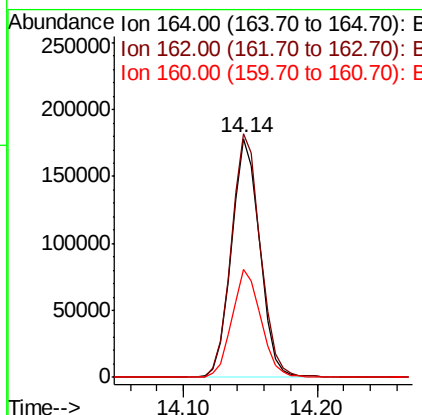
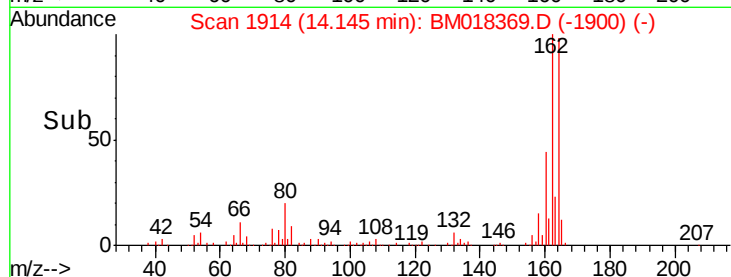
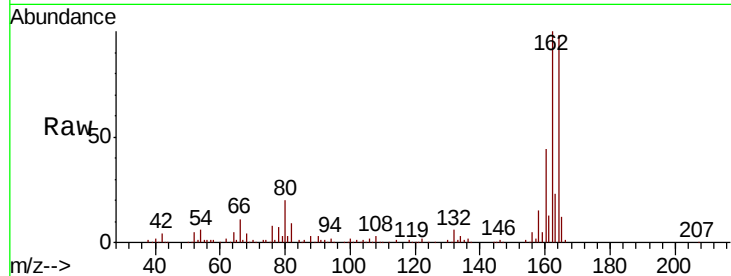
#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 14.14 min Scan# 1914  
Delta R.T. -0.02 min  
Lab File: BM018369.D  
Acq: 21 Dec 2018 22:29

Instrument :  
BNA\_M  
ClientSampleID :  
SOIL-DRUM

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 164     | 100   |      |       |       |
| 162     | 102.1 | 81.8 | 122.6 |       |
| 160     | 45.2  | 34.6 | 51.8  |       |

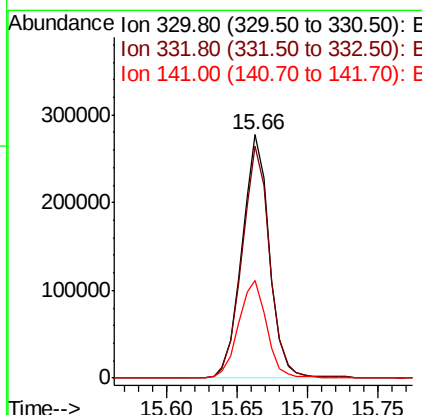
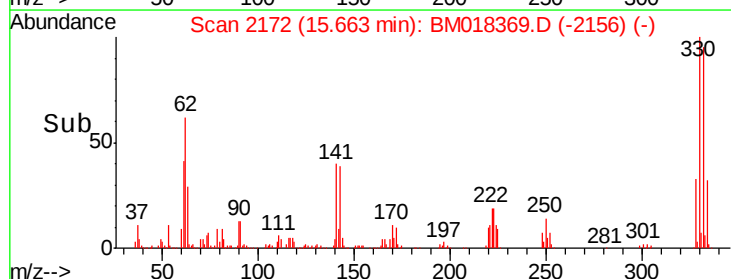
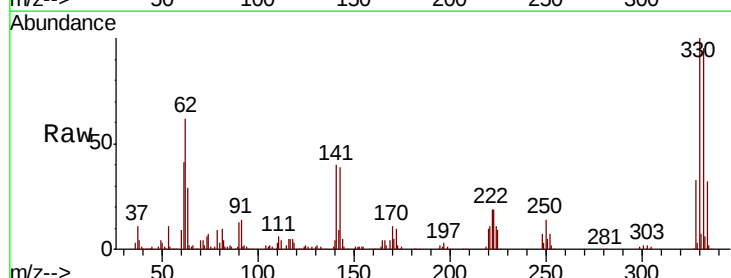
Manual Integrations  
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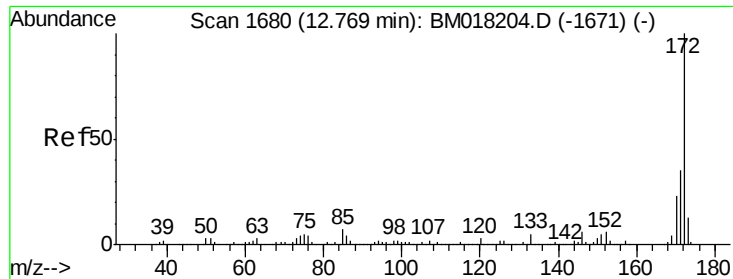
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#42  
2,4,6-Tribromophenol  
Concen: 97.001 ng  
RT: 15.66 min Scan# 2172  
Delta R.T. -0.01 min  
Lab File: BM018369.D  
Acq: 21 Dec 2018 22:29

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 330     | 100   |      |       |       |
| 332     | 96.4  | 78.6 | 118.0 |       |
| 141     | 41.2  | 27.1 | 40.7# |       |





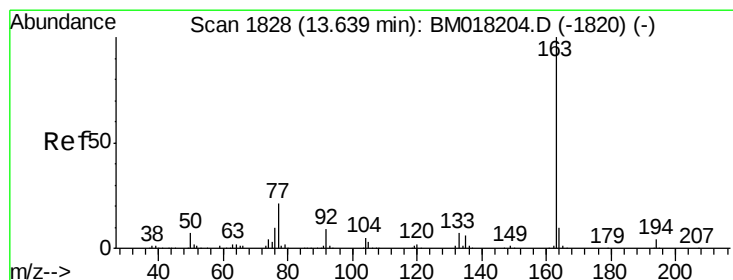
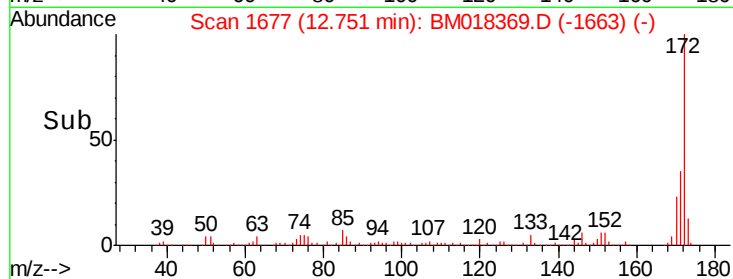
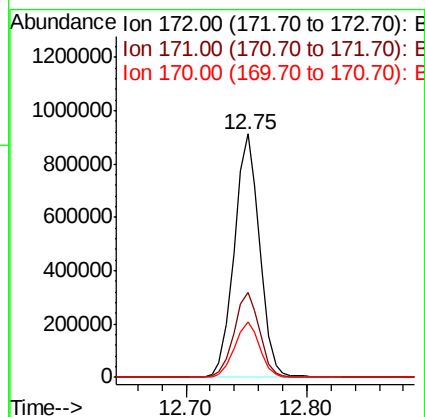
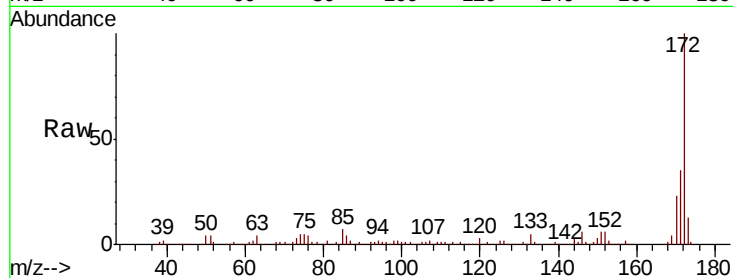
#45  
2-Fluorobiphenyl  
Concen: 65.442 ng  
RT: 12.75 min Scan# 1677  
Delta R.T. -0.02 min  
Lab File: BM018369.D  
Acq: 21 Dec 2018 22:29

Instrument :  
BNA\_M  
ClientSampleId :  
SOIL-DRUM

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.1  | 28.3  | 42.5  |
| 170     | 23.0  | 18.1  | 27.1  |

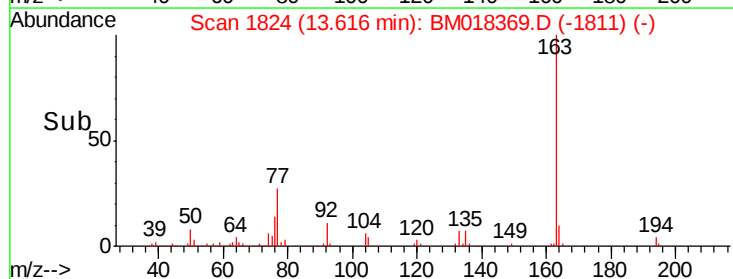
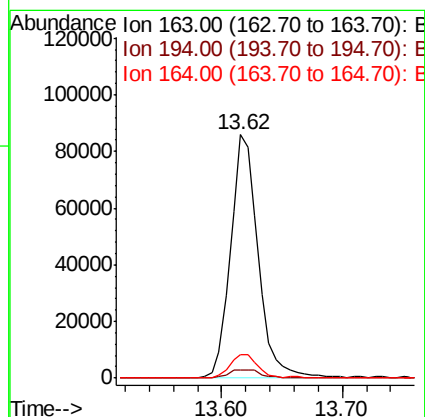
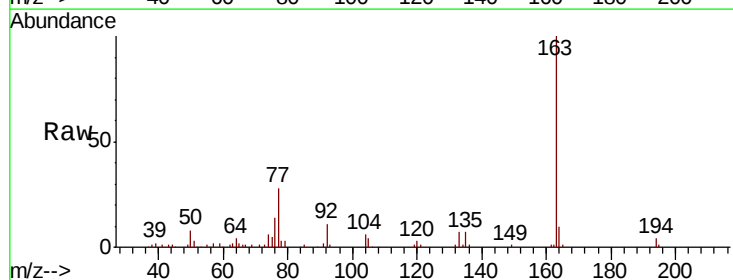
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#50  
Dimethylphthalate  
Concen: 6.234 ng  
RT: 13.62 min Scan# 1824  
Delta R.T. -0.02 min  
Lab File: BM018369.D  
Acq: 21 Dec 2018 22:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 3.5   | 3.1   | 4.7   |
| 164     | 9.8   | 7.9   | 11.9  |





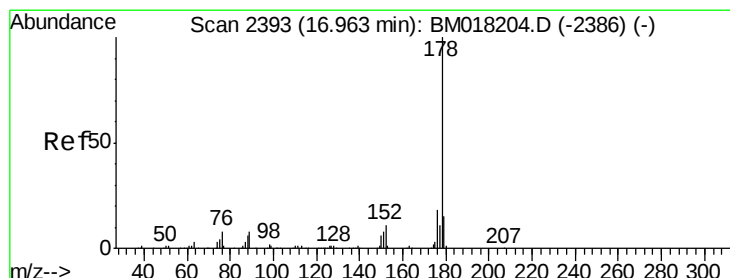
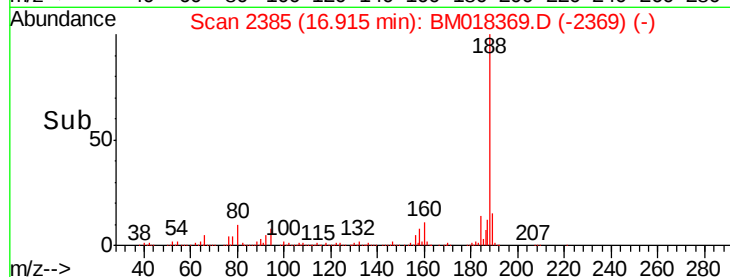
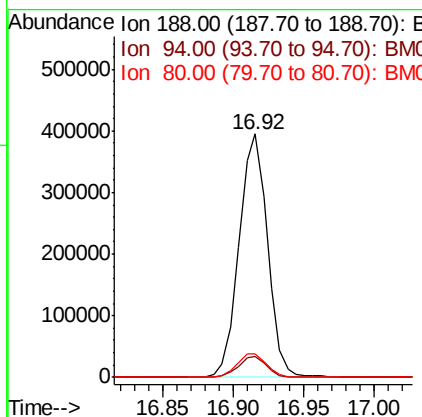
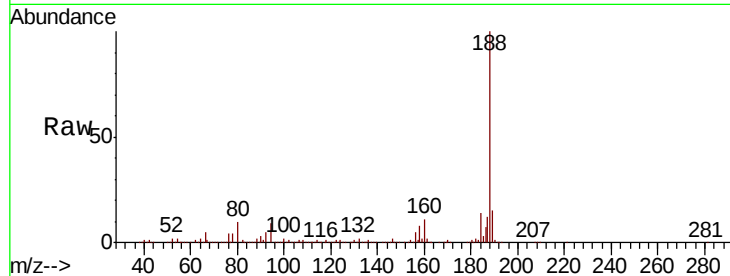
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 16.92 min Scan# 2385  
Delta R.T. -0.01 min  
Lab File: BM018369.D  
Acq: 21 Dec 2018 22:29

Instrument :  
BNA\_M  
ClientSampleId :  
SOIL-DRUM

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 8.6   | 8.0        | 12.0  |
| 80      | 9.8   | 9.0        | 13.6  |

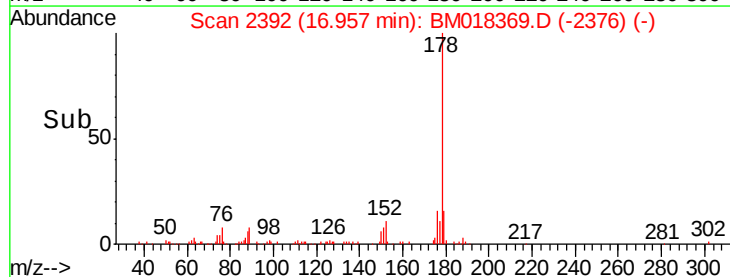
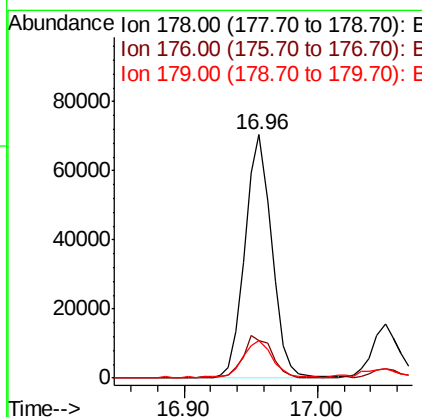
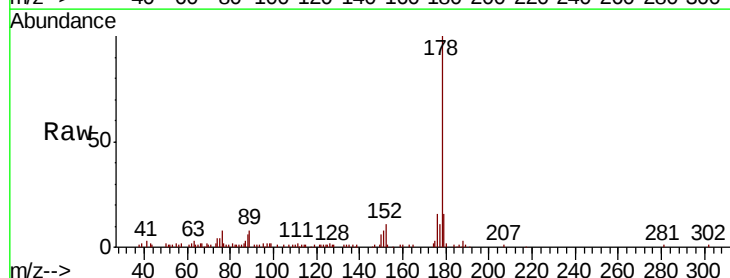
Manual Integrations  
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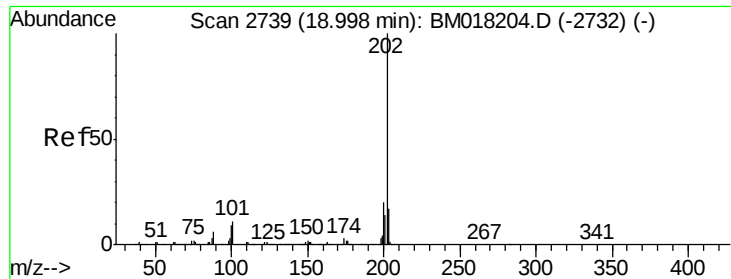
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#71  
Phenanthrene  
Concen: 3.233 ng  
RT: 16.96 min Scan# 2392  
Delta R.T. -0.01 min  
Lab File: BM018369.D  
Acq: 21 Dec 2018 22:29

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 178     | 100   |            |       |
| 176     | 15.7  | 14.7       | 22.1  |
| 179     | 15.6  | 12.0       | 18.0  |





#75

Fluoranthene

Concen: 5.949 ng

RT: 18.99 min Scan# 2738

Delta R.T. -0.01 min

Lab File: BM018369.D

Acq: 21 Dec 2018 22:29

Instrument :

BNA\_M

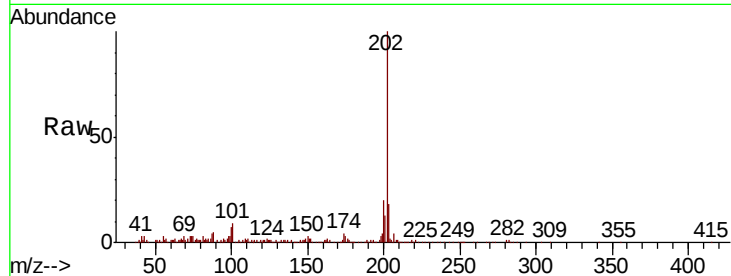
ClientSampleId :

SOIL-DRUM

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 8.7   | 0.0        | 30.5  |
| 203     | 18.4  | 0.0        | 37.5  |

Manual Integrations  
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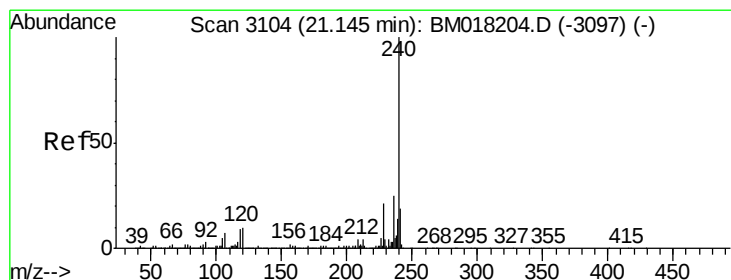
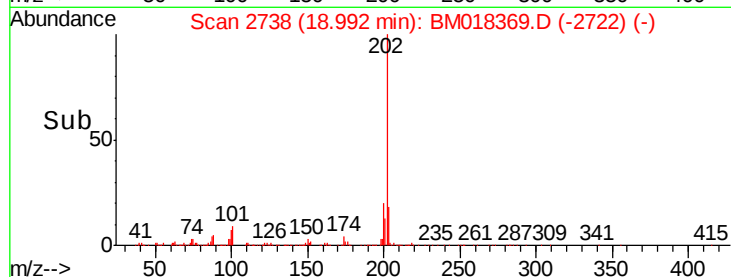
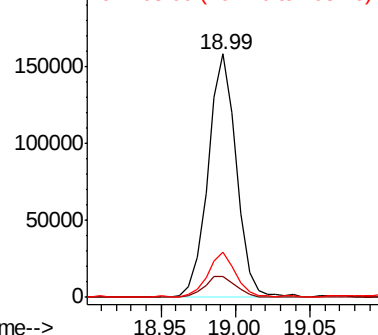


Abundance

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

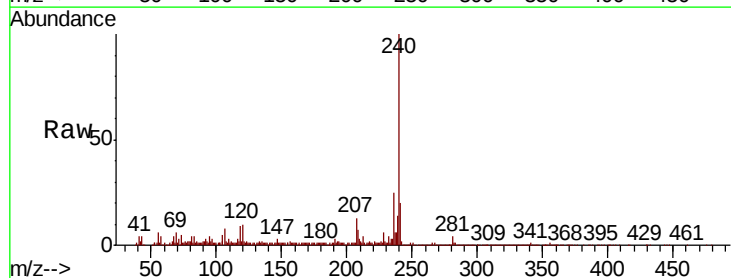
RT: 21.14 min Scan# 3103

Delta R.T. -0.01 min

Lab File: BM018369.D

Acq: 21 Dec 2018 22:29

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 240     | 100   |            |       |
| 120     | 9.8   | 8.2        | 12.2  |
| 236     | 25.1  | 20.3       | 30.5  |

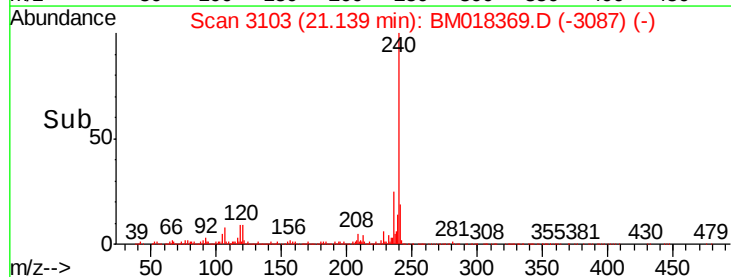
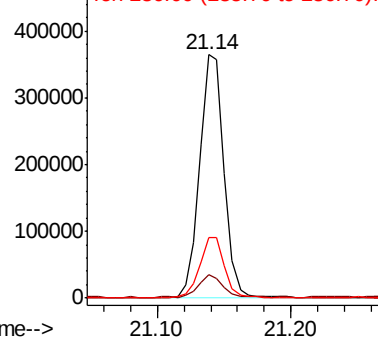


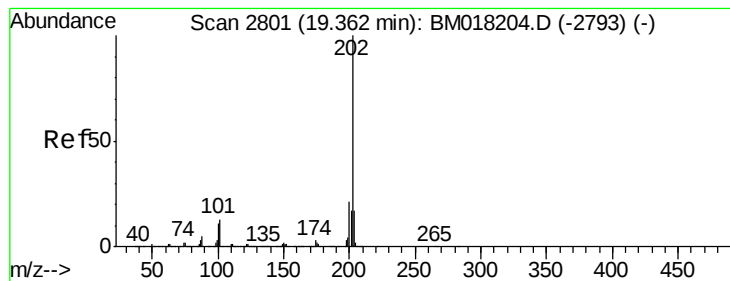
Abundance

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: 6.445 ng

RT: 19.36 min Scan# 2800

Delta R.T. -0.01 min

Lab File: BM018369.D

Acq: 21 Dec 2018 22:29

Instrument :

BNA\_M

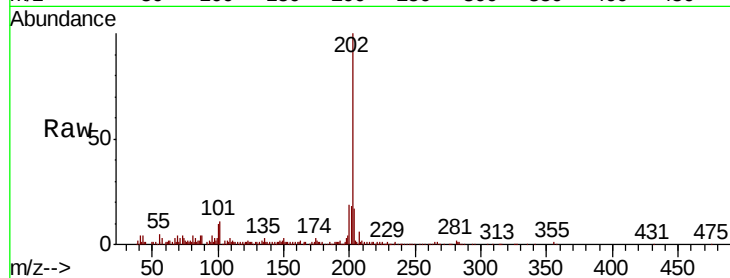
ClientSampleId :

SOIL-DRUM

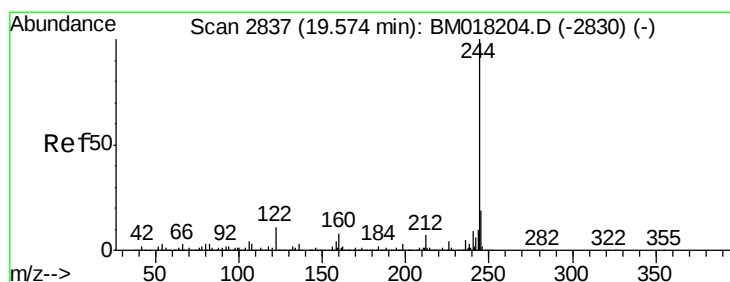
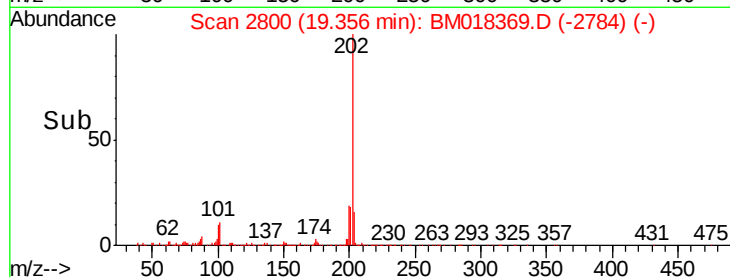
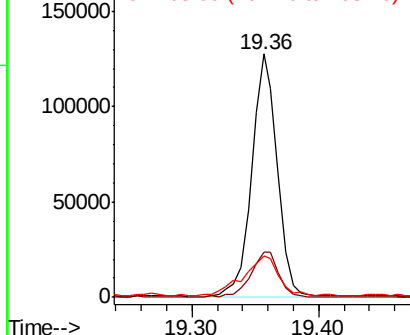
|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 202   | Resp: | 178586 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 18.7  | 16.5  | 24.7   |
| 203       | 16.8  | 14.0  | 21.0   |

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Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 200.00 (199.70 to 200.70): E  
Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 79.523 ng

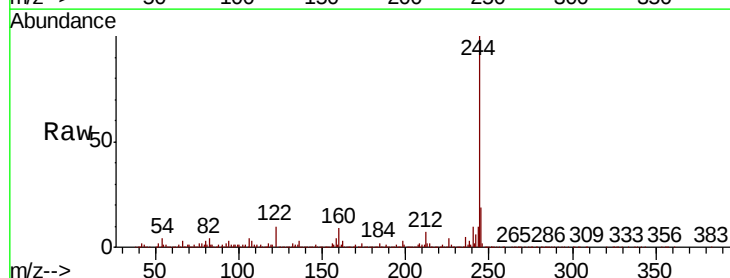
RT: 19.57 min Scan# 2836

Delta R.T. -0.01 min

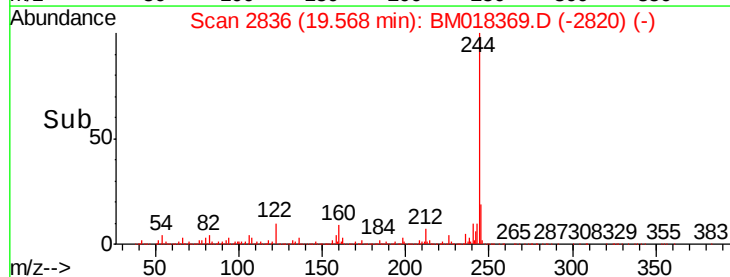
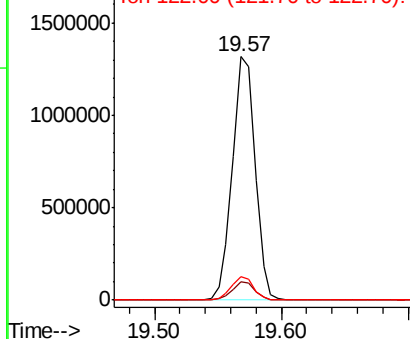
Lab File: BM018369.D

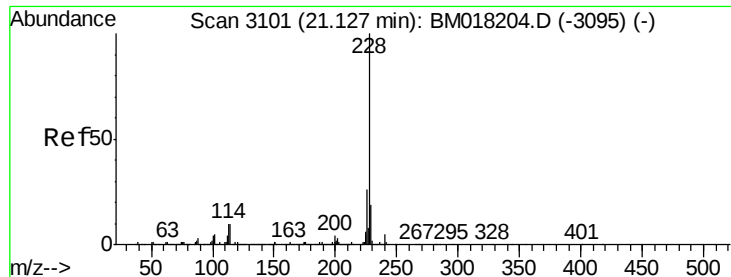
Acq: 21 Dec 2018 22:29

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 244   | Resp: | 1635223 |
| Ion Ratio | Lower | Upper |         |
| 244       | 100   |       |         |
| 212       | 7.4   | 5.8   | 8.8     |
| 122       | 9.9   | 9.0   | 13.6    |



Abundance Ion 244.00 (243.70 to 244.70): E  
Ion 212.00 (211.70 to 212.70): E  
Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 3.283 ng

RT: 21.13 min Scan# 3101

Delta R.T. -0.00 min

Lab File: BM018369.D

Acq: 21 Dec 2018 22:29

Instrument :

BNA\_M

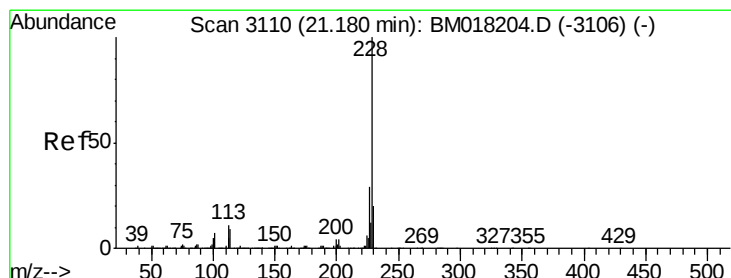
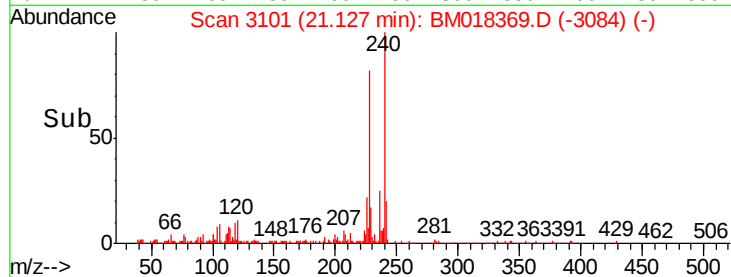
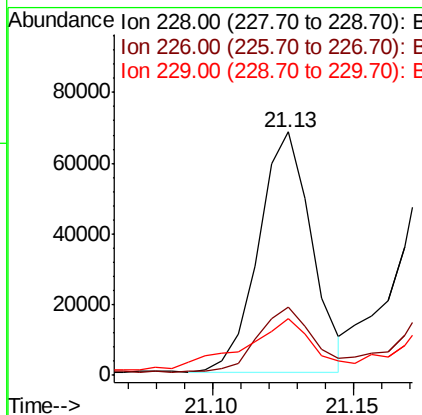
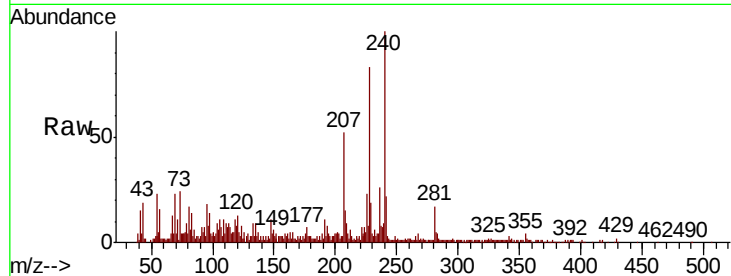
ClientSampleId :

SOIL-DRUM

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 89199 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 28.0  | 21.0  | 31.4  |
| 229       | 23.3  | 15.5  | 23.3  |

Manual Integrations  
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#83

Chrysene

Concen: 3.454 ng m

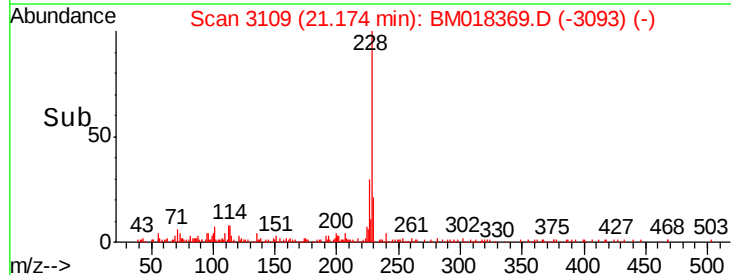
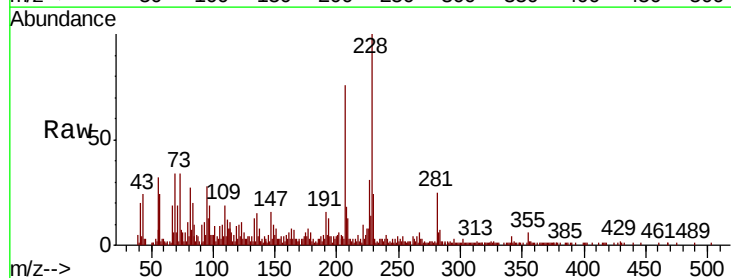
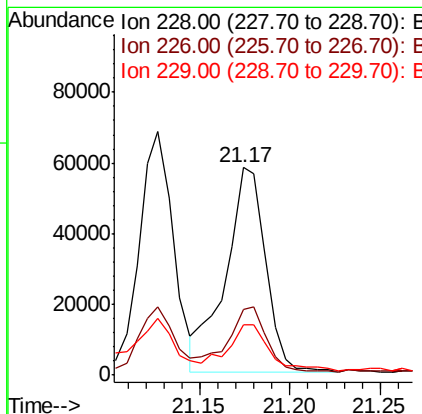
RT: 21.17 min Scan# 3109

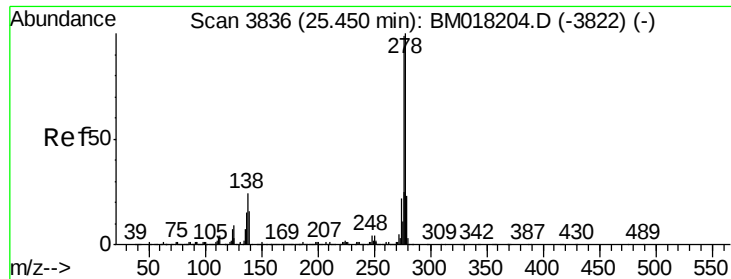
Delta R.T. -0.01 min

Lab File: BM018369.D

Acq: 21 Dec 2018 22:29

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 90247 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 31.5  | 23.1  | 34.7  |
| 229       | 24.1  | 15.8  | 23.6# |





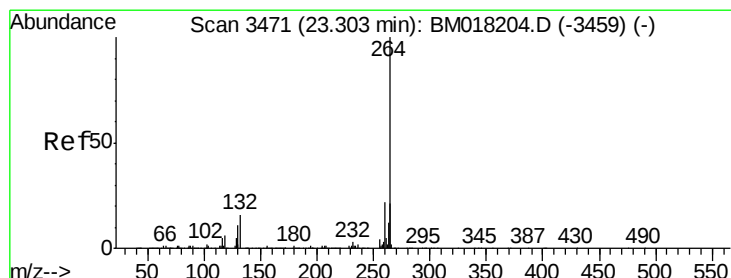
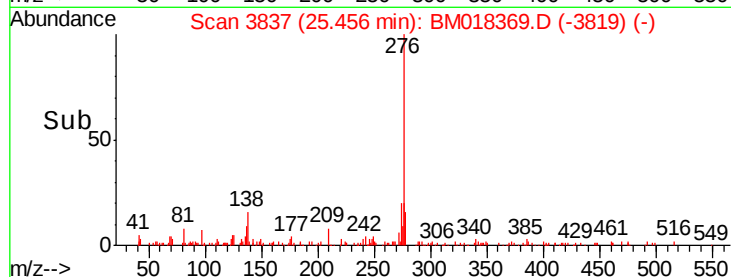
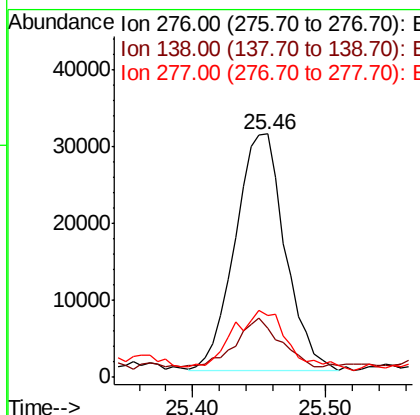
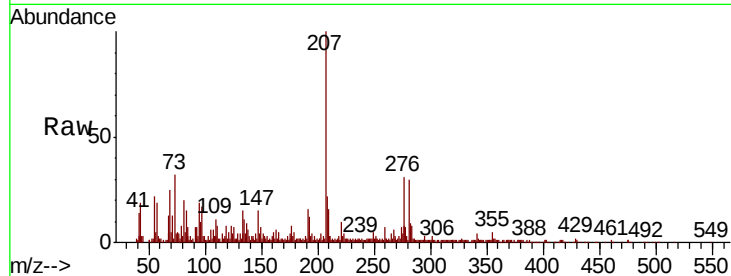
#86  
Indeno(1,2,3-cd)pyrene  
Concen: 3.077 ng  
RT: 25.46 min Scan# 3837  
Delta R.T. 0.01 min  
Lab File: BM018369.D  
Acq: 21 Dec 2018 22:29

Instrument :  
BNA\_M  
ClientSampleId :  
SOIL-DRUM

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 18.8  | 18.6  | 28.0  |
| 277     | 27.9  | 20.3  | 30.5  |

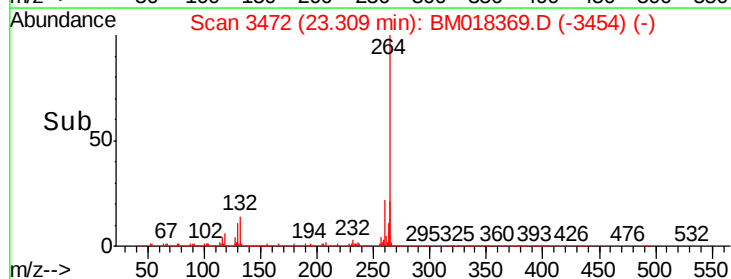
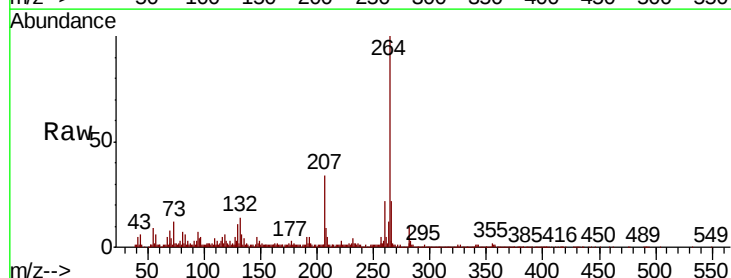
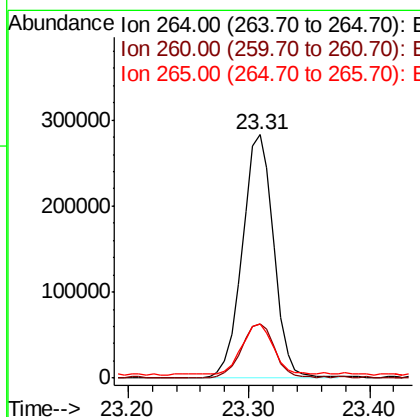
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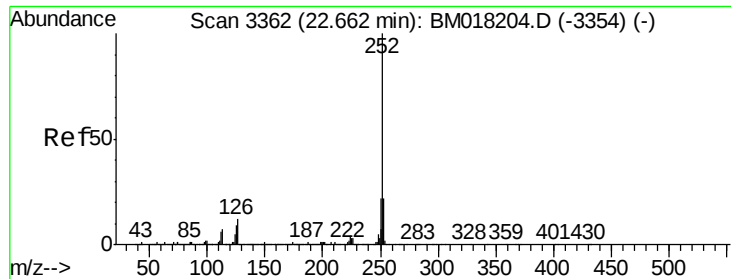
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#87  
Perylene-d12  
Concen: 20.000 ng  
RT: 23.31 min Scan# 3472  
Delta R.T. 0.01 min  
Lab File: BM018369.D  
Acq: 21 Dec 2018 22:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 22.2  | 17.5  | 26.3  |
| 265     | 22.5  | 17.3  | 25.9  |





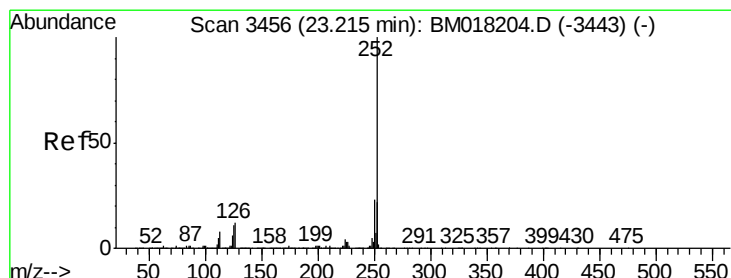
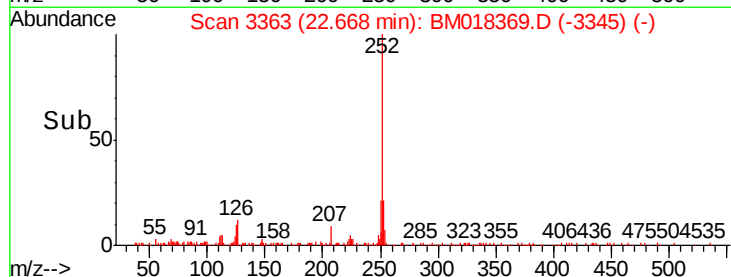
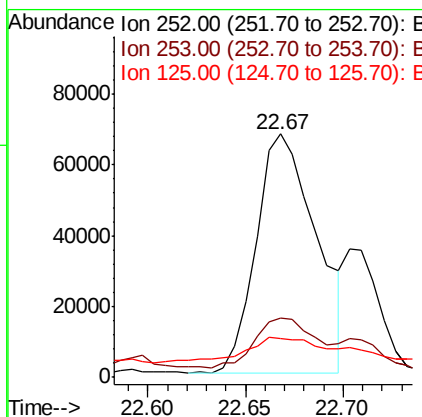
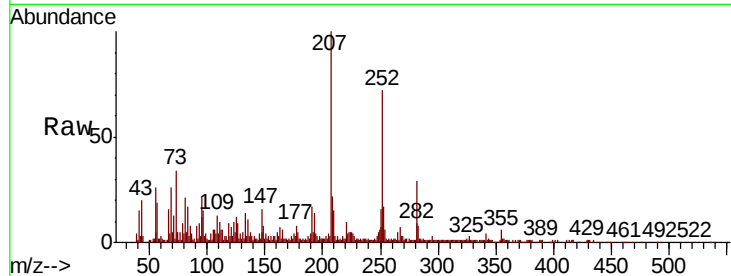
#88  
Benzo(b)fluoranthene  
Concen: 5.066 ng  
RT: 22.67 min Scan# 3363  
Delta R.T. 0.01 min  
Lab File: BM018369.D  
Acq: 21 Dec 2018 22:29

Instrument :  
BNA\_M  
ClientSampleId :  
SOIL-DRUM

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.2  | 17.6  | 26.4  |
| 125     | 16.1  | 7.4   | 11.0  |

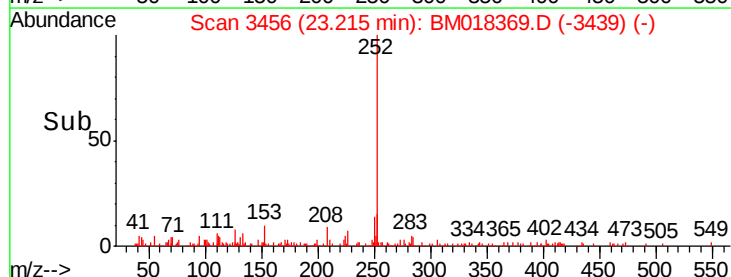
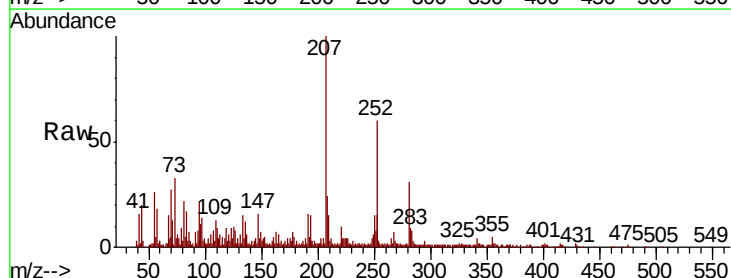
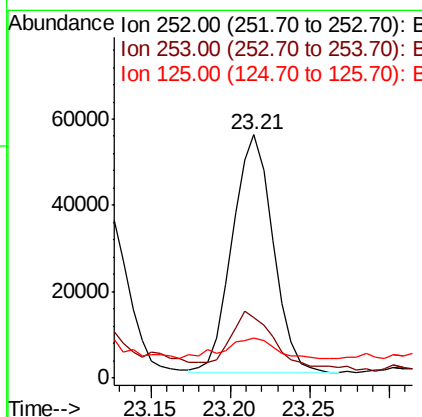
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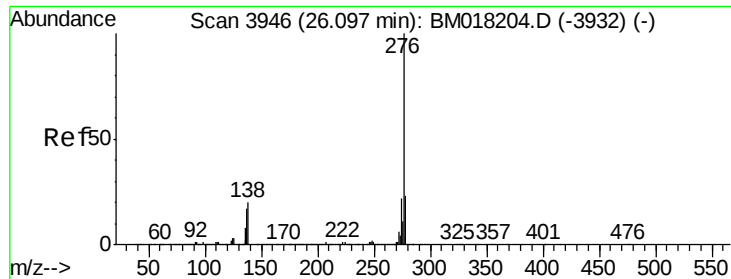
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#90  
Benzo(a)pyrene  
Concen: 3.573 ng  
RT: 23.21 min Scan# 3456  
Delta R.T. -0.00 min  
Lab File: BM018369.D  
Acq: 21 Dec 2018 22:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.7  | 17.6  | 26.4  |
| 125     | 16.5  | 8.6   | 12.8  |





#92  
 Benzo(a,h,i)perylene  
 Concen: 3.182 ng  
 RT: 26.11 min Scan# 3948  
 Delta R.T. 0.01 min  
 Lab File: BM018369.D  
 Acq: 21 Dec 2018 22:29

Instrument :  
 BNA\_M  
 ClientSampleId :  
 SOIL-DRUM

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 26.0  | 18.7  | 28.1  |
| 138     | 24.3  | 15.8  | 23.8  |

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