

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM020718\  
 Data File : BM014172.D  
 Acq On : 07 Feb 2018 21:55  
 Operator : SJ/JU  
 Sample : J1161-03  
 Misc : MDL 1 PPM  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 MDL-SOIL-03-QT1-2018

Manual Integrations  
 APPROVED

Sohil  
 2/8/2018 3:50:33 PM

Quant Time: Feb 08 11:29:21 2018  
 Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\8270-BM020718.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Feb 07 17:16:49 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|--------------------------------|-------|------|----------|--------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.55  | 152  | 82833    | 20.00  | ng    | 0.00     |
| 21) Naphthalene-d8             | 10.32 | 136  | 343843   | 20.00  | ng    | 0.00     |
| 38) Acenaphthene-d10           | 14.20 | 164  | 222643   | 20.00  | ng    | 0.00     |
| 63) Phenanthrene-d10           | 16.96 | 188  | 538348   | 20.00  | ng    | 0.00     |
| 75) Chrysene-d12               | 21.17 | 240  | 571931   | 20.00  | ng    | 0.00     |
| 86) Perylene-d12               | 23.34 | 264  | 511407   | 20.00  | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |       |          |
| 5) 2-Fluorophenol              | 5.16  | 112  | 622877   | 131.07 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.73  | 99   | 834068   | 123.92 | ng    | 0.00     |
| 23) Nitrobenzene-d5            | 8.70  | 82   | 707430   | 91.90  | ng    | 0.00     |
| 41) 2,4,6-Tribromophenol       | 15.70 | 330  | 407309   | 128.93 | ng    | 0.00     |
| 44) 2-Fluorobiphenyl           | 12.81 | 172  | 1594594  | 89.41  | ng    | 0.00     |
| 78) Terphenyl-d14              | 19.60 | 244  | 2546605  | 87.00  | ng    | 0.00     |
| Target Compounds               |       |      |          |        |       |          |
| 15) Benzyl Alcohol             | 7.86  | 79   | 17953m   | 2.88   | ng    | Qvalue   |
| 40) Hexachlorocyclopentadiene  | 12.33 | 237  | 653      | 6.30   | ng    | # 28     |
| 64) 4,6-Dinitro-2-methylphenol | 15.42 | 198  | 525      | 5.69   | ng    | # 28     |
| 69) Pentachlorophenol          | 16.66 | 266  | 1228     | 6.18   | ng    | # 65     |

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

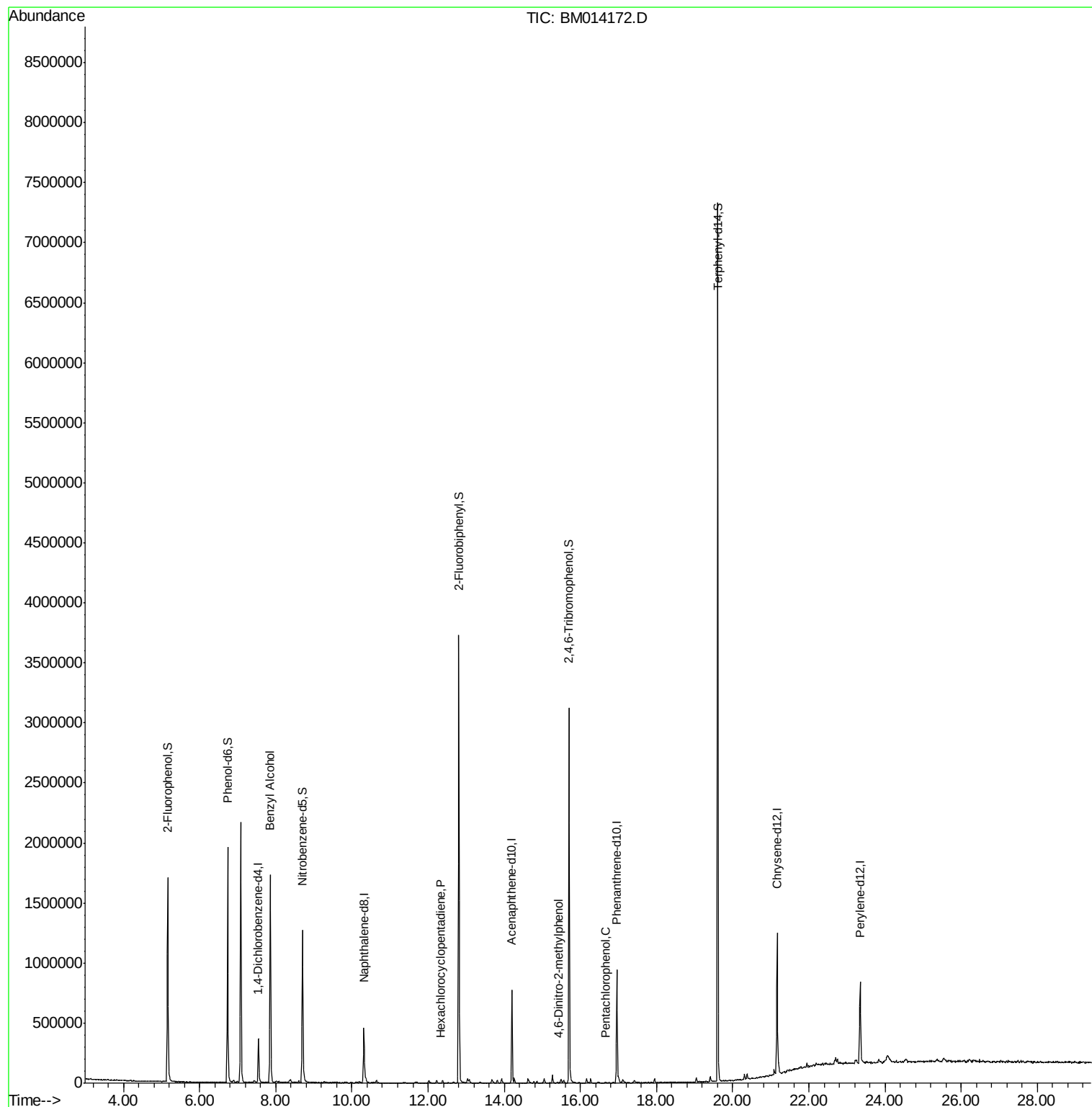
Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM020718\  
Data File : BM014172.D  
Acq On : 07 Feb 2018 21:55  
Operator : SJ/JU  
Sample : J1161-03  
Misc : MDL 1 PPM  
ALS Vial : 8 Sample Multiplier: 1

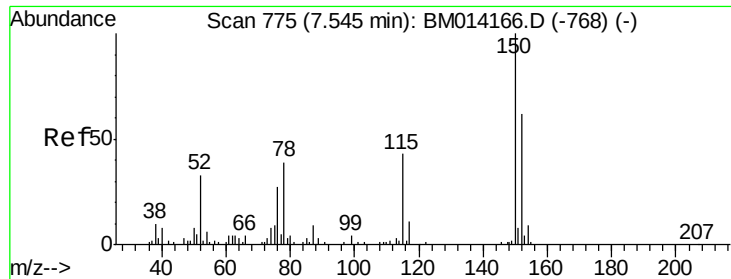
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT1-2018

Manual Integrations  
APPROVED

Sohil  
2/8/2018 3:50:33 PM

Quant Time: Feb 08 11:29:21 2018  
Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\8270-BM020718.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Feb 07 17:16:49 2018  
Response via : Initial Calibration





#1

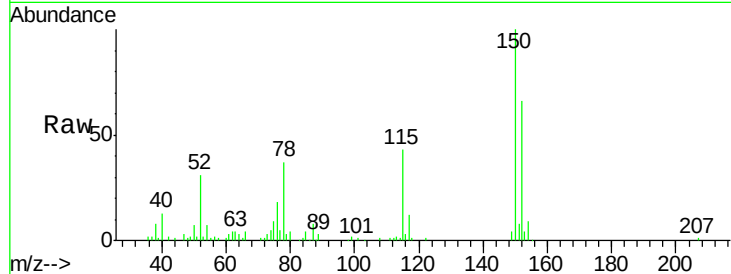
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 7.55 min Scan# 775  
Delta R.T. -0.00 min  
Lab File: BM014172.D  
Acq: 07 Feb 2018 21:55

Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT1-2018

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 152     | 100   | 82833 |       |       |
| 150     | 151.2 | 119.5 | 179.3 |       |
| 115     | 64.6  | 43.0  | 64.4# |       |

Manual Integrations  
APPROVED

Sohil  
2/8/2018 3:50:33 PM

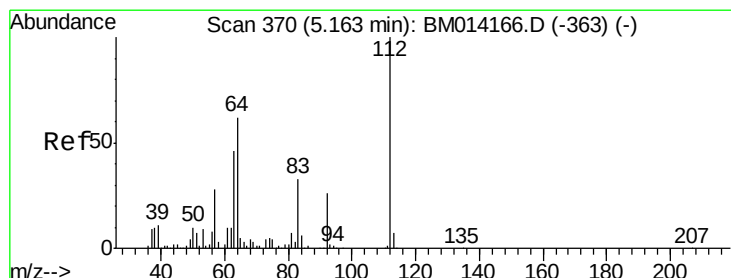
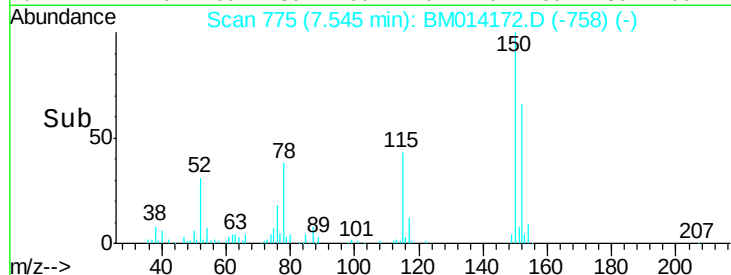
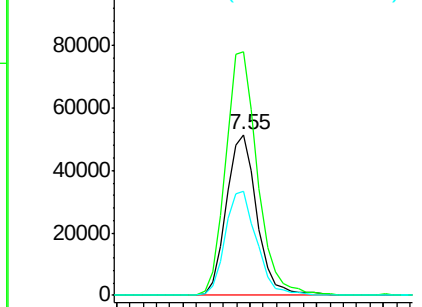


Abundance

Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

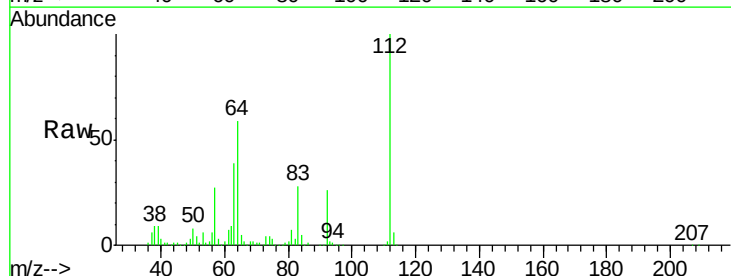
Ion 115.00 (114.70 to 115.70): E



#5

2-Fluorophenol  
Concen: 131.07 ng  
RT: 5.16 min Scan# 370  
Delta R.T. 0.00 min  
Lab File: BM014172.D  
Acq: 07 Feb 2018 21:55

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 112     | 100   | 622877 |       |       |
| 64      | 58.8  | 38.6   | 57.8# |       |
| 63      | 39.5  | 19.3   | 28.9# |       |

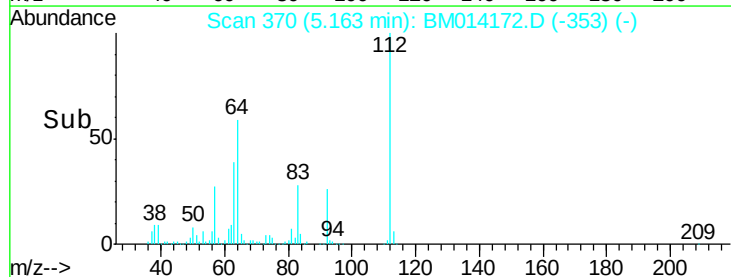
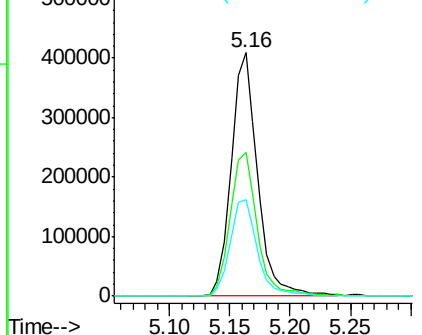


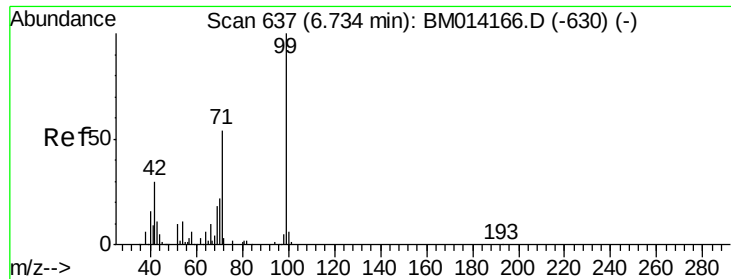
Abundance

Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BM0

Ion 63.00 (62.70 to 63.70): BM0





#7

Phenol-d6

Concen: 123.92 ng

RT: 6.73 min Scan# 637

Delta R.T. -0.01 min

Lab File: BM014172.D

Acq: 07 Feb 2018 21:55

Instrument :

BNA\_M

ClientSampleId :

MDL-SOIL-03-QT1-2018

Tgt Ion: 99 Resp: 834068

Ion Ratio Lower Upper

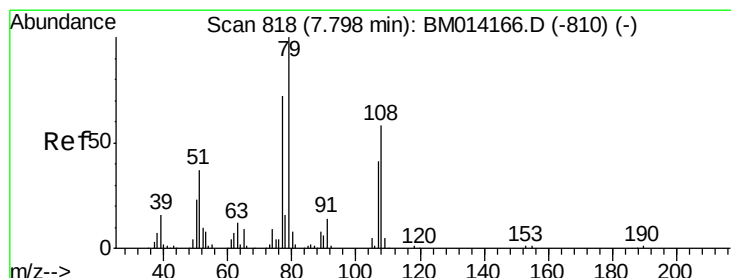
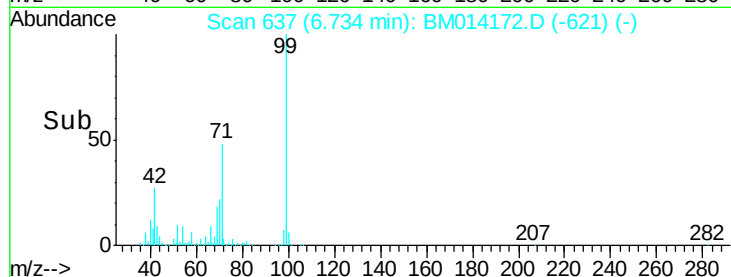
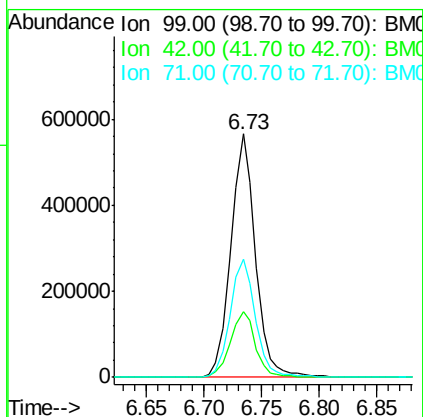
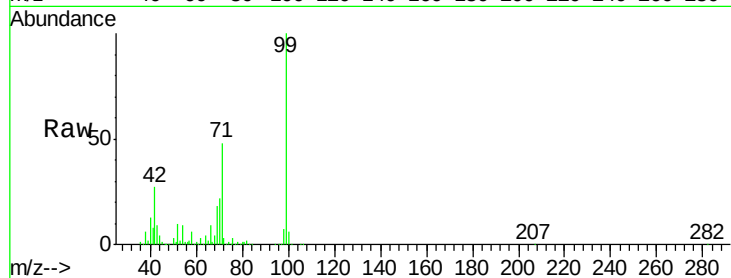
99 100

42 27.1 11.0 16.4#

71 48.3 23.4 35.2#

Manual Integrations  
APPROVED

Sohil  
2/8/2018 3:50:33 PM



#15

Benzyl Alcohol

Concen: 2.88 ng m

RT: 7.86 min Scan# 828

Delta R.T. 0.06 min

Lab File: BM014172.D

Acq: 07 Feb 2018 21:55

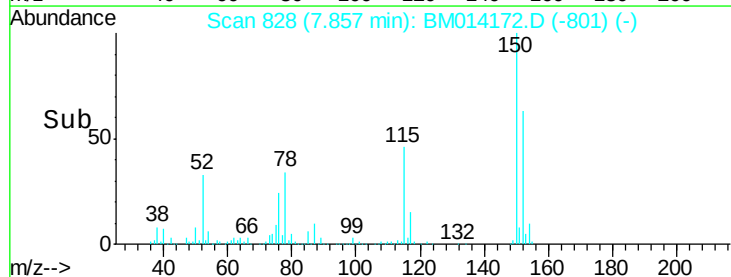
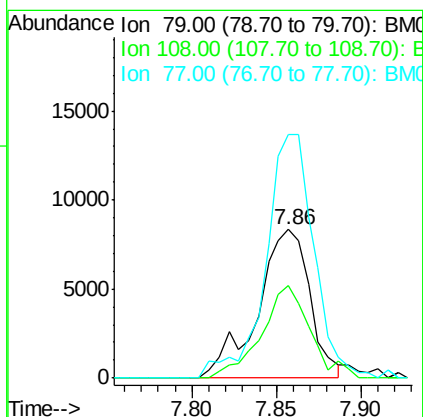
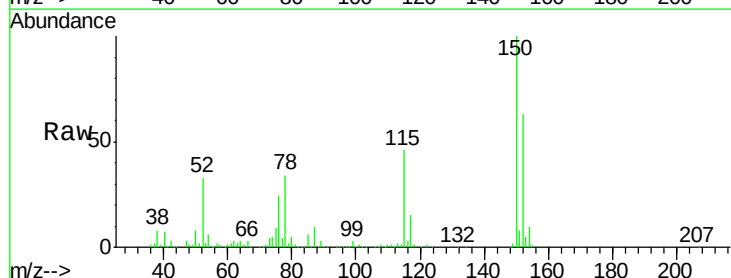
Tgt Ion: 79 Resp: 17953

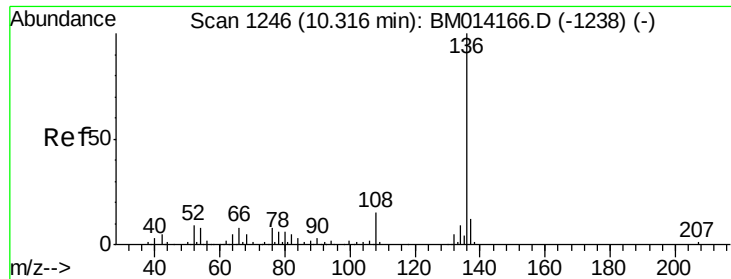
Ion Ratio Lower Upper

79 100

108 62.8 65.0 97.4#

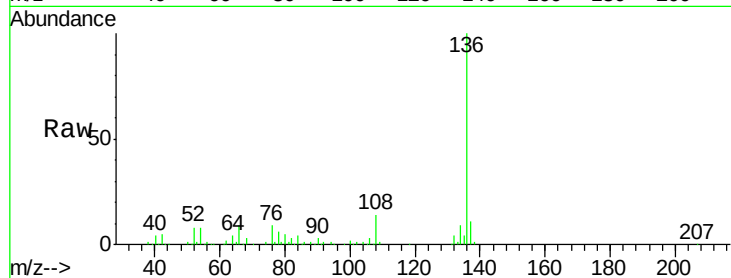
77 163.9 53.0 79.6#





#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 10.32 min Scan# 1246  
Delta R.T. -0.00 min  
Lab File: BM014172.D  
Acq: 07 Feb 2018 21:55

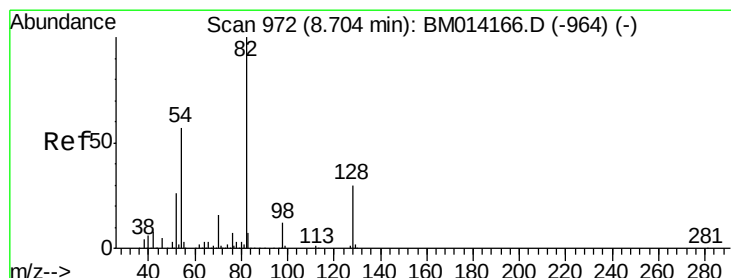
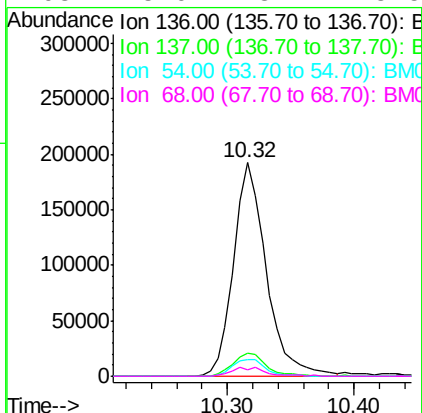
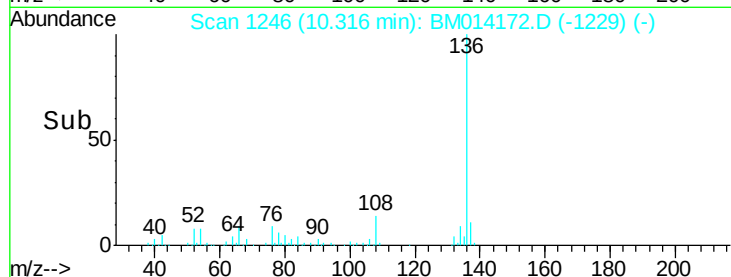
Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT1-2018



| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 136     | 100   |            |            |
| 137     | 10.7  | 8.7        | 13.1       |
| 54      | 7.9   | 4.6        | 6.8#       |
| 68      | 3.0   | 3.7        | 5.5#       |

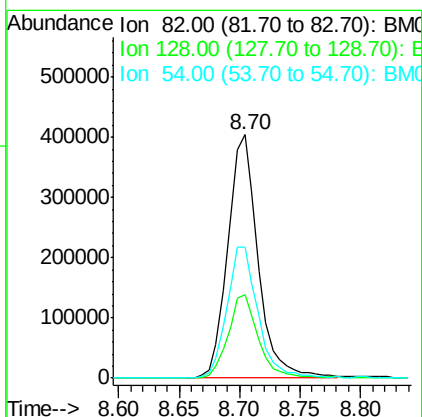
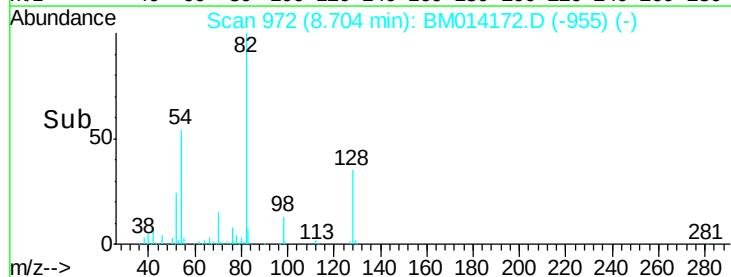
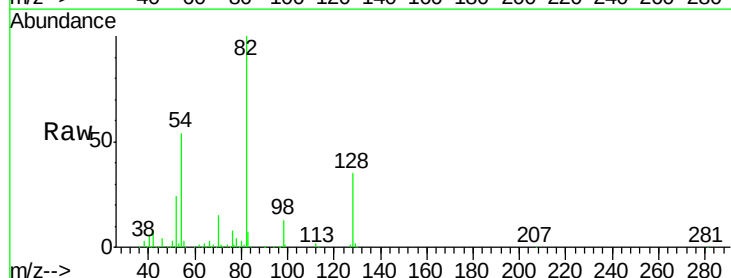
Manual Integrations  
APPROVED

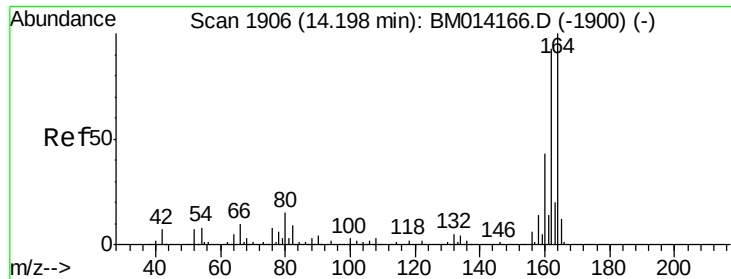
Sohil  
2/8/2018 3:50:33 PM



#23  
Nitrobenzene-d5  
Concen: 91.90 ng  
RT: 8.70 min Scan# 972  
Delta R.T. -0.00 min  
Lab File: BM014172.D  
Acq: 07 Feb 2018 21:55

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 82      | 100   |            |            |
| 128     | 34.5  | 32.8       | 49.2       |
| 54      | 54.0  | 40.6       | 60.8       |





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 14.20 min Scan# 1906

Delta R.T. -0.00 min

Lab File: BM014172.D

Acq: 07 Feb 2018 21:55

Instrument :

BNA\_M

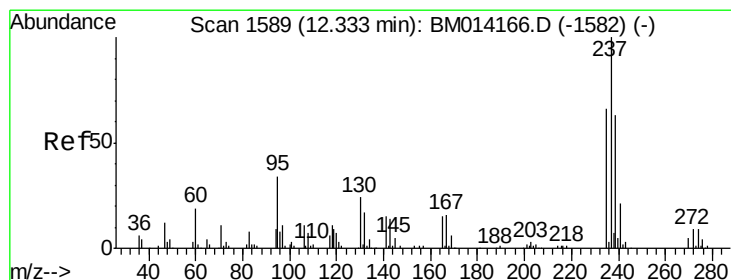
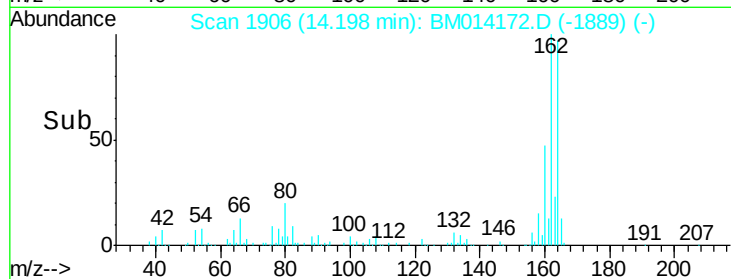
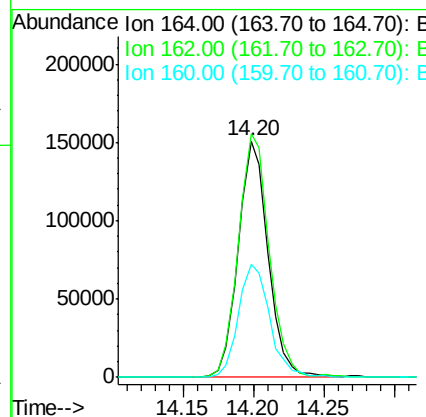
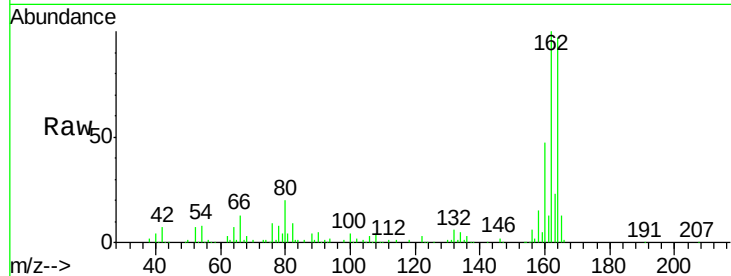
ClientSampleId :

MDL-SOIL-03-QT1-2018

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 164   | Resp: | 222643 |
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 103.0 | 82.4  | 123.6  |
| 160       | 48.0  | 35.8  | 53.6   |

Manual Integrations  
APPROVED

Sohil  
2/8/2018 3:50:33 PM



#40

Hexachlorocyclopentadiene

Concen: 6.30 ng

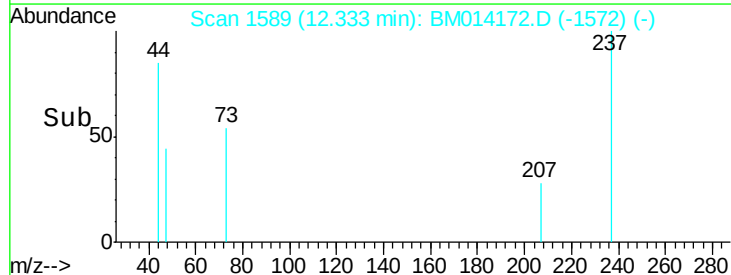
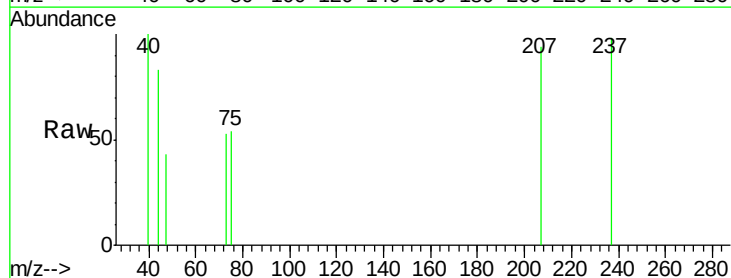
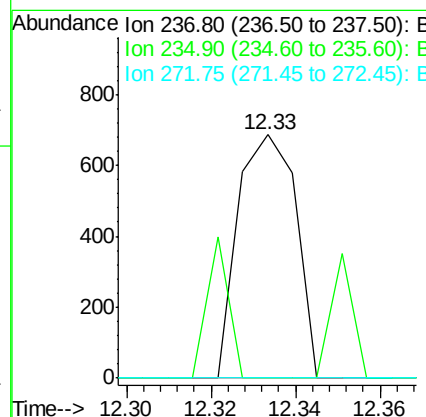
RT: 12.33 min Scan# 1589

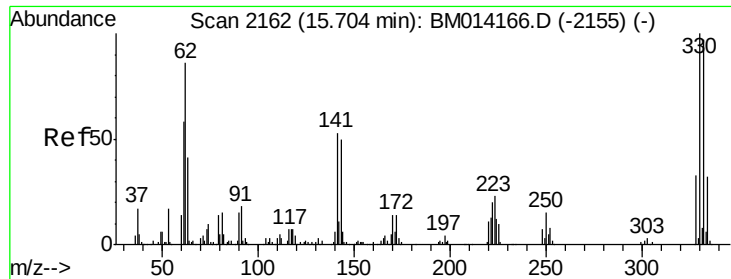
Delta R.T. 0.00 min

Lab File: BM014172.D

Acq: 07 Feb 2018 21:55

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 237   | Resp: | 653   |
| Ion Ratio | Lower | Upper |       |
| 237       | 100   |       |       |
| 235       | 0.0   | 42.0  | 82.0# |
| 272       | 0.0   | 0.0   | 33.4  |





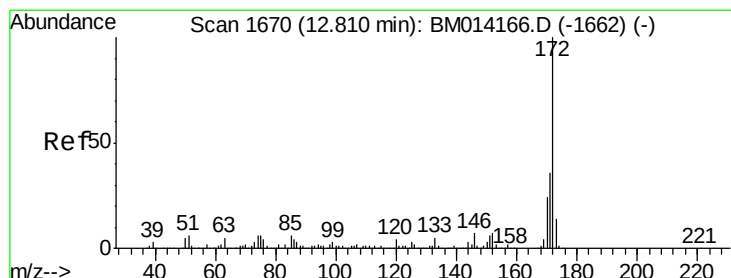
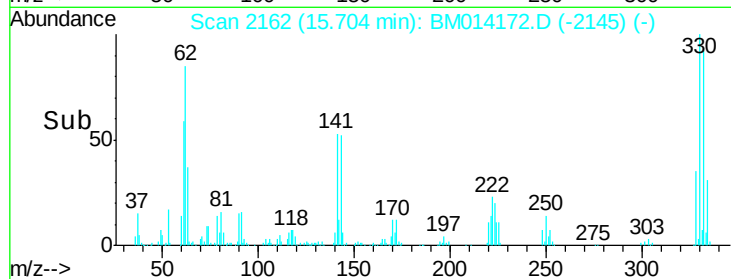
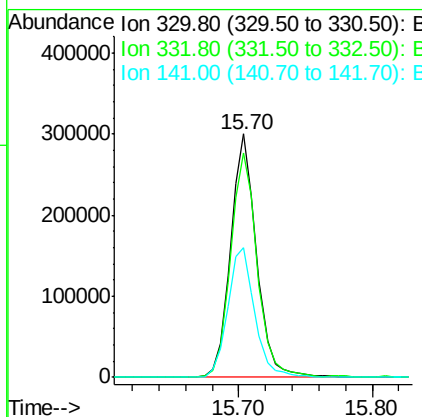
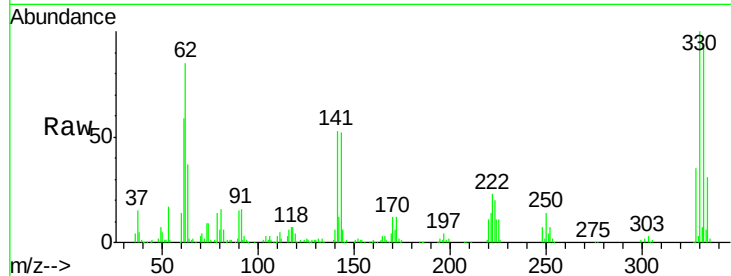
#41  
 2,4,6-Tribromophenol  
 Concen: 128.93 ng  
 RT: 15.70 min Scan# 2162  
 Delta R.T. -0.00 min  
 Lab File: BM014172.D  
 Acq: 07 Feb 2018 21:55

Instrument :  
 BNA\_M  
 ClientSampleId :  
 MDL-SOIL-03-QT1-2018

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 330     | 100   | 407309 |       |       |
| 332     | 94.9  | 0.0    | 0.0   | 0.0   |
| 141     | 55.8  | 0.0    | 0.0   | 0.0   |

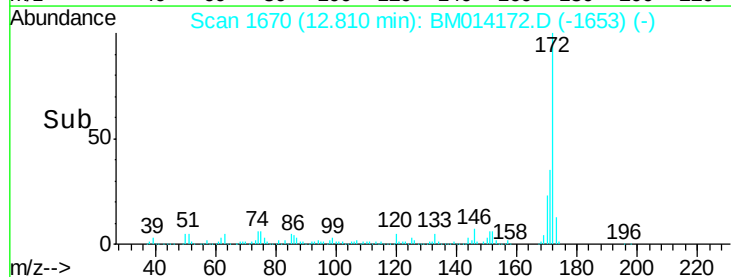
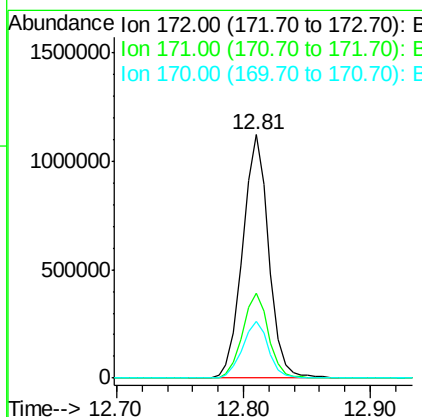
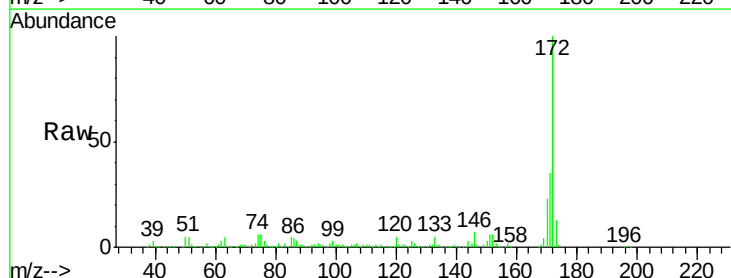
Manual Integrations  
 APPROVED

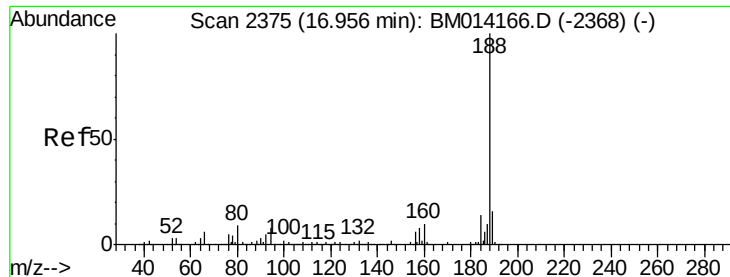
Sohil  
 2/8/2018 3:50:33 PM



#44  
 2-Fluorobiphenyl  
 Concen: 89.41 ng  
 RT: 12.81 min Scan# 1670  
 Delta R.T. -0.00 min  
 Lab File: BM014172.D  
 Acq: 07 Feb 2018 21:55

| Tgt Ion | Ratio | Resp    | Lower | Upper |
|---------|-------|---------|-------|-------|
| 172     | 100   | 1594594 |       |       |
| 171     | 35.0  | 28.5    | 42.7  |       |
| 170     | 23.4  | 18.8    | 28.2  |       |





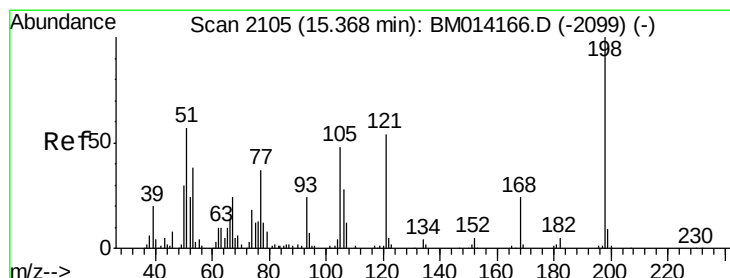
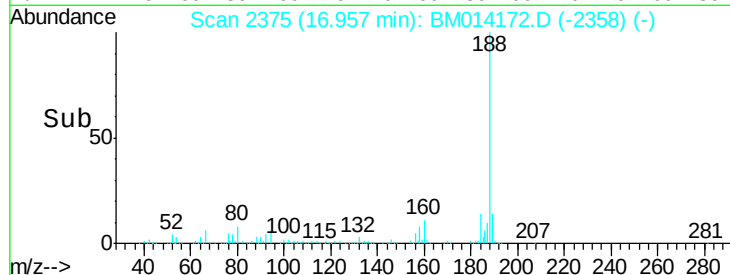
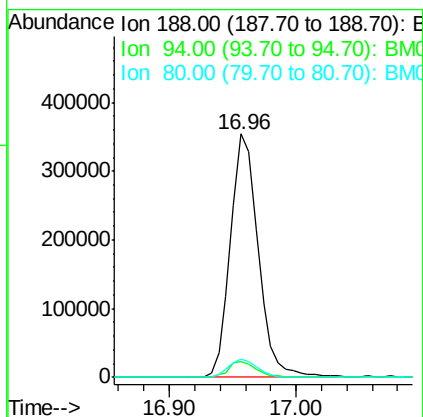
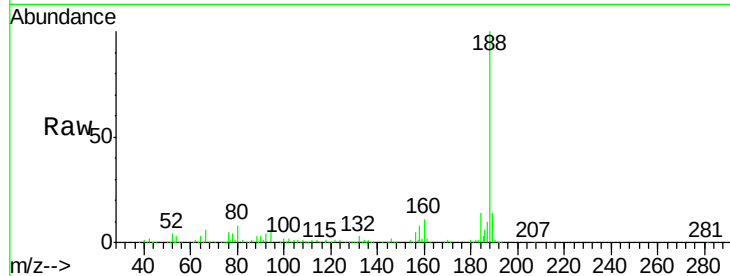
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 16.96 min Scan# 2375  
Delta R.T. -0.00 min  
Lab File: BM014172.D  
Acq: 07 Feb 2018 21:55

Instrument :  
BNA\_M  
ClientSampleId :  
MDL-SOIL-03-QT1-2018

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 188     | 100   |            |            |
| 94      | 6.5   | 8.7        | 13.1#      |
| 80      | 7.6   | 9.3        | 13.9#      |

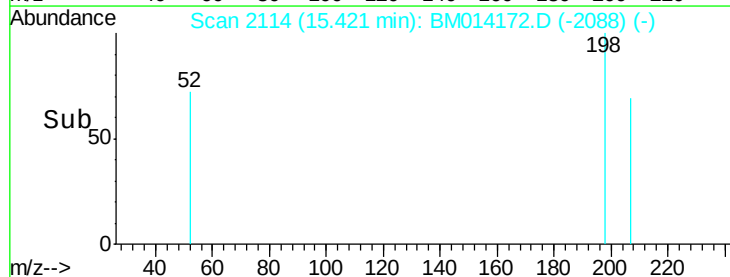
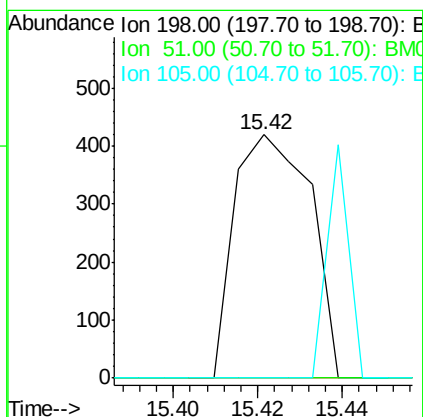
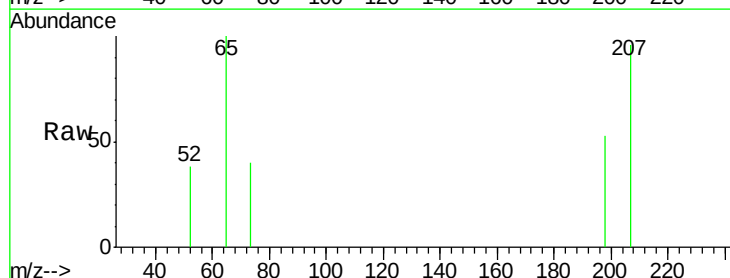
Manual Integrations  
APPROVED

Sohil  
2/8/2018 3:50:33 PM

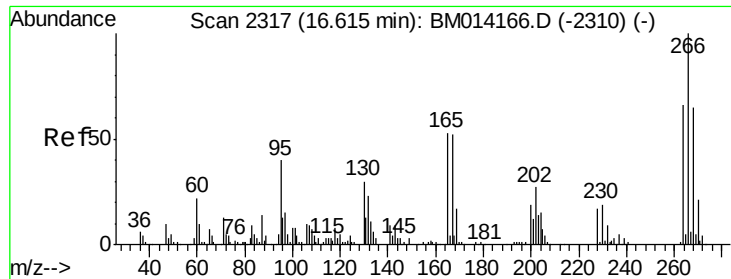


#64  
4,6-Dinitro-2-methylphenol  
Concen: 5.69 ng  
RT: 15.42 min Scan# 2114  
Delta R.T. 0.05 min  
Lab File: BM014172.D  
Acq: 07 Feb 2018 21:55

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 198     | 100   |            |            |
| 51      | 0.0   | 28.8       | 68.8#      |
| 105     | 0.0   | 30.5       | 70.5#      |







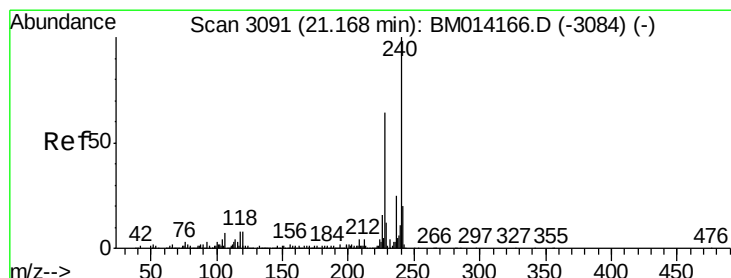
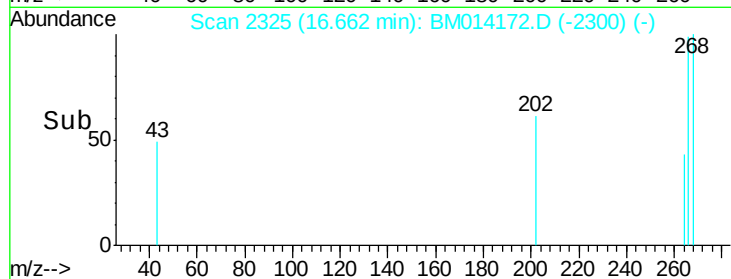
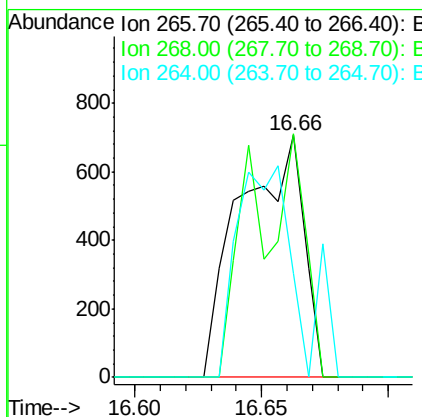
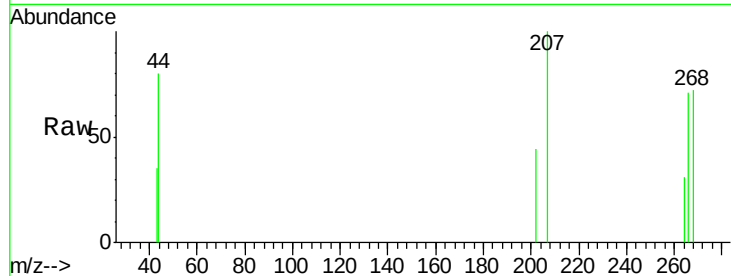
#69  
 Pentachlorophenol  
 Concen: 6.18 ng  
 RT: 16.66 min Scan# 2325  
 Delta R.T. 0.05 min  
 Lab File: BM014172.D  
 Acq: 07 Feb 2018 21:55

Instrument :  
 BNA\_M  
 ClientSampleId :  
 MDL-SOIL-03-QT1-2018

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 266     | 100   | 1228 |       |       |
| 268     | 100.7 | 52.0 | 78.0# |       |
| 264     | 43.1  | 49.0 | 73.4# |       |

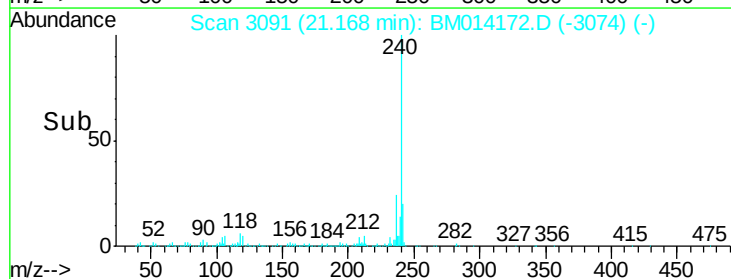
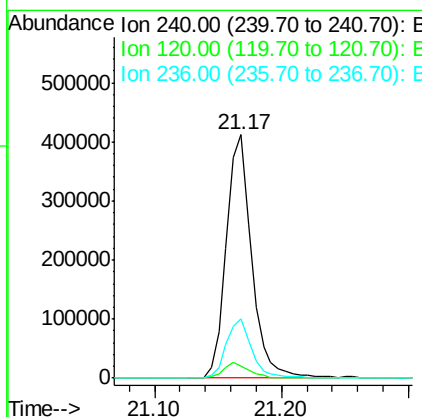
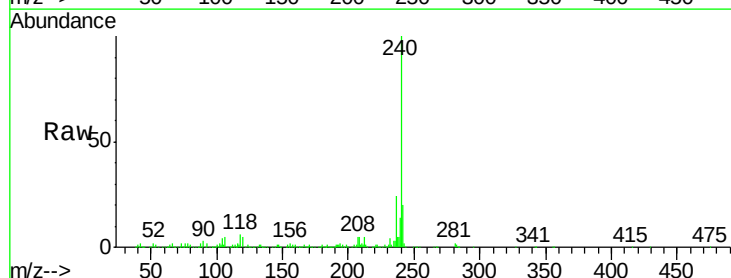
Manual Integrations  
 APPROVED

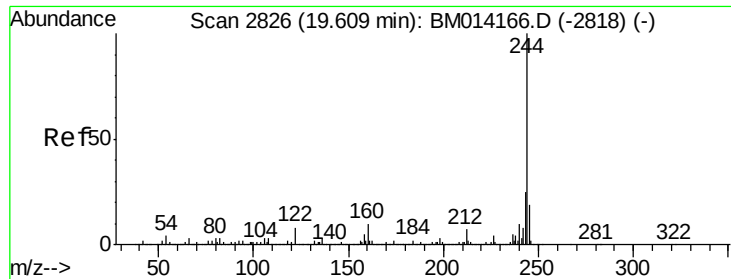
Sohil  
 2/8/2018 3:50:33 PM



#75  
 Chrysene-d12  
 Concen: 20.00 ng  
 RT: 21.17 min Scan# 3091  
 Delta R.T. -0.00 min  
 Lab File: BM014172.D  
 Acq: 07 Feb 2018 21:55

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 240     | 100   | 571931 |       |       |
| 120     | 4.8   | 8.2    | 12.2# |       |
| 236     | 24.4  | 20.0   | 30.0  |       |





#78

Terphenyl-d14

Concen: 87.00 ng

RT: 19.60 min Scan# 2825

Delta R.T. -0.00 min

Lab File: BM014172.D

Acq: 07 Feb 2018 21:55

Instrument :

BNA\_M

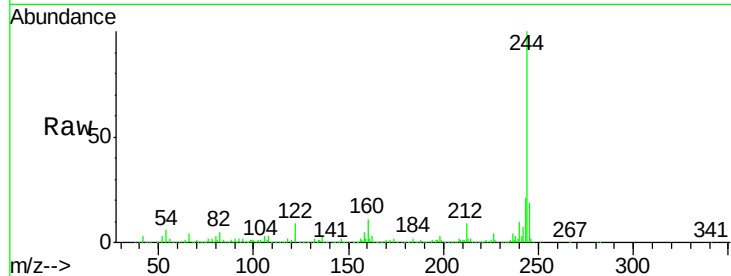
ClientSampleId :

MDL-SOIL-03-QT1-2018

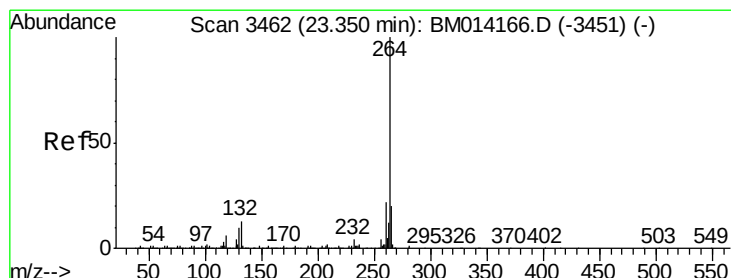
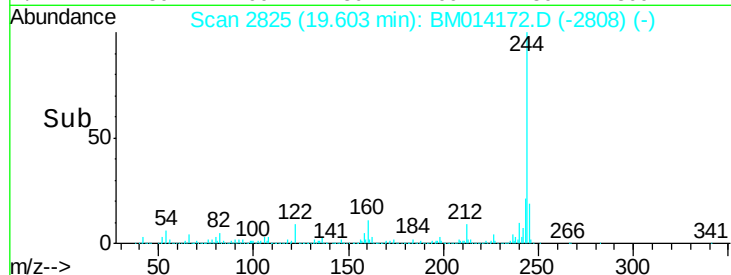
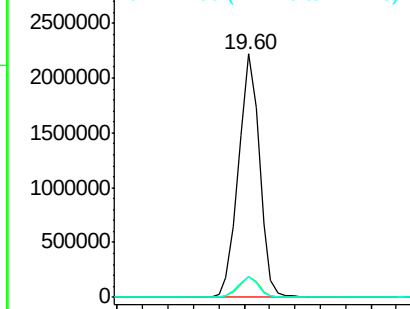
|           |     |       |         |
|-----------|-----|-------|---------|
| Tgt Ion:  | 244 | Resp: | 2546605 |
| Ion Ratio |     | Lower | Upper   |
| 244       | 100 |       |         |
| 212       | 8.5 | 4.9   | 7.3#    |
| 122       | 8.6 | 6.2   | 9.4     |

Manual Integrations  
APPROVED

Sohil  
2/8/2018 3:50:33 PM



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



#86

Perylene-d12

Concen: 20.00 ng

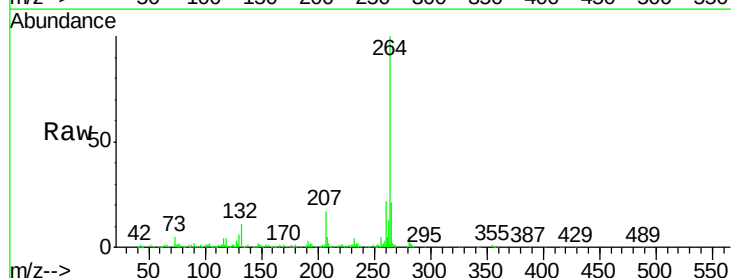
RT: 23.34 min Scan# 3461

Delta R.T. -0.00 min

Lab File: BM014172.D

Acq: 07 Feb 2018 21:55

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 264  | Resp: | 511407 |
| Ion Ratio |      | Lower | Upper  |
| 264       | 100  |       |        |
| 260       | 21.6 | 18.6  | 27.8   |
| 265       | 21.4 | 17.3  | 25.9   |



Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

