

Data Path : Z:\HPCHEM1\BNA E\DATA\BE122716\  
 Data File : BE092624.D  
 Acq On : 27 Dec 2016 15:59  
 Operator : UM/SJ  
 Sample : H6103-02  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 LOQ-SOIL-02-QT1-2017

Manual Integrations  
 APPROVED

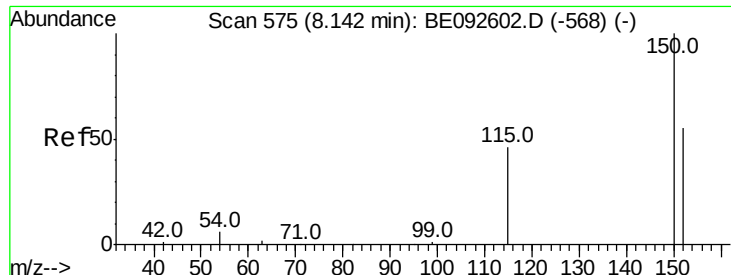
sohil  
 12/28/2016 9:49:35 AM

Quant Time: Dec 28 13:05:30 2016  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE121916.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Dec 19 16:16:32 2016  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|--------------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 8.14  | 152  | 11269    | 5.00 | ng    | 0.00     |
| 7) Naphthalene-d8              | 10.93 | 136  | 46322    | 5.00 | ng    | 0.00     |
| 12) Acenaphthene-d10           | 14.80 | 164  | 26795    | 5.00 | ng    | 0.00     |
| 18) Phenanthrene-d10           | 17.56 | 188  | 48333    | 5.00 | ng    | 0.00     |
| 24) Chrysene-d12               | 21.72 | 240  | 51585    | 5.00 | ng    | 0.00     |
| 31) Perylene-d12               | 24.08 | 264  | 48714    | 5.00 | ng    | 0.01     |
| System Monitoring Compounds    |       |      |          |      |       |          |
| 4) 2-Fluorophenol              | 5.65  | 112  | 20813    | 9.51 | ng    | -0.03    |
| 5) Phenol-d6                   | 7.31  | 99   | 27339    | 8.26 | ng    | -0.07    |
| 8) Nitrobenzene-d5             | 9.32  | 82   | 12535    | 3.95 | ng    | -0.04    |
| 13) 2,4,6-Tribromophenol       | 16.30 | 330  | 4115     | 5.38 | ng    | -0.01    |
| 14) 2-Fluorobiphenyl           | 13.42 | 172  | 28457    | 4.44 | ng    | -0.01    |
| 26) Terphenyl-d14              | 20.16 | 244  | 29105    | 4.60 | ng    | -0.02    |
| Target Compounds               |       |      |          |      |       | Qvalue   |
| 6) bis(2-Chloroethyl)ether     | 7.59  | 93   | 442      | 0.24 | ng    | # 26     |
| 9) Naphthalene                 | 10.97 | 128  | 1672     | 0.18 | ng    | # 86     |
| 10) Hexachlorobutadiene        | 11.26 | 225  | 262      | 0.18 | ng    | 96       |
| 11) 2-Methylnaphthalene        | 12.64 | 142  | 896      | 0.15 | ng    | 97       |
| 15) Acenaphthylene             | 14.51 | 152  | 6189     | 0.17 | ng    | 99       |
| 16) Acenaphthene               | 14.87 | 154  | 1109     | 0.18 | ng    | 92       |
| 17) Fluorene                   | 15.86 | 166  | 1154     | 0.15 | ng    | 99       |
| 19) Hexachlorobenzene          | 16.86 | 284  | 370m     | 0.18 | ng    |          |
| 20) Pentachlorophenol          | 17.26 | 266  | 47m      | 0.17 | ng    |          |
| 21) Phenanthrene               | 17.60 | 178  | 2000m    | 0.16 | ng    |          |
| 22) Anthracene                 | 17.72 | 178  | 1649     | 0.15 | ng    | 98       |
| 23) Fluoranthene               | 19.61 | 202  | 7159     | 0.14 | ng    | 99       |
| 25) Pyrene                     | 19.97 | 202  | 7232     | 0.16 | ng    | 99       |
| 27) Benzo(a)anthracene         | 21.70 | 228  | 6683m    | 0.14 | ng    |          |
| 28) Chrysene                   | 21.75 | 228  | 9380m    | 0.17 | ng    |          |
| 29) Bis(2-ethylhexyl)phthalate | 21.61 | 149  | 523      | 0.17 | ng    | # 78     |
| 30) Indeno(1,2,3-cd)pyrene     | 26.58 | 276  | 8889     | 0.18 | ng    | 99       |
| 32) Benzo(b)fluoranthene       | 23.36 | 252  | 1785     | 0.16 | ng    | # 87     |
| 33) Benzo(k)fluoranthene       | 23.41 | 252  | 2080     | 0.17 | ng    | # 87     |
| 34) Benzo(a)pyrene             | 23.97 | 252  | 1720     | 0.16 | ng    | # 83     |
| 35) Dibenzo(a,h)anthracene     | 26.62 | 278  | 1774     | 0.17 | ng    | # 77     |
| 36) Benzo(g,h,i)perylene       | 27.35 | 276  | 8154     | 0.19 | ng    | # 87     |

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





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.14 min Scan# 575

Delta R.T. 0.00 min

Lab File: BE092624.D

Acq: 27 Dec 2016 15:59

Instrument :

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ClientSampleId :

LOQ-SOIL-02-QT1-2017

Tot Ion:152 Resp: 11269

Ion Ratio Lower Upper

152 100

150 166.7 106.0 159.0#

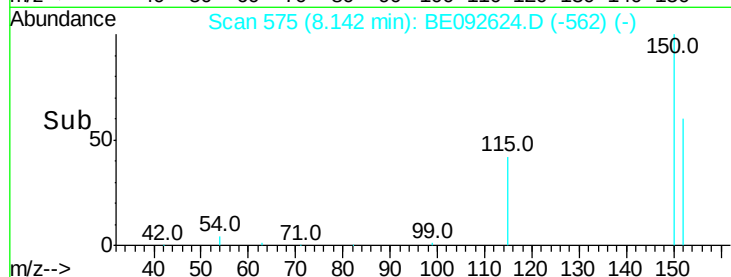
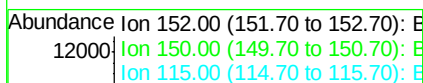
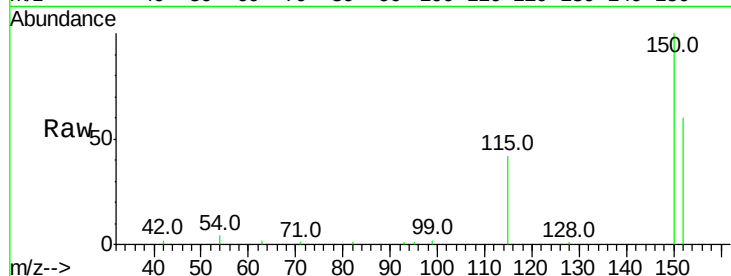
115 69.9 31.2 46.8#

Manual Integrations

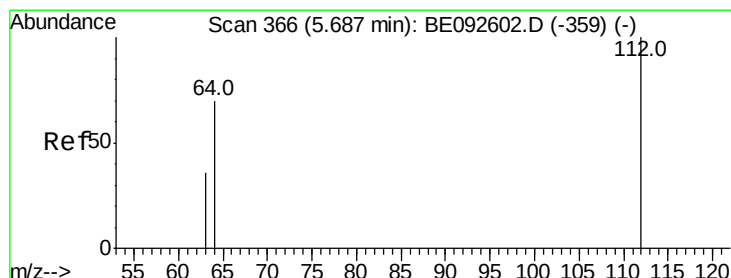
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Time-->



#4

2-Fluorophenol

Concen: 9.51 ng

RT: 5.65 min Scan# 360

Delta R.T. -0.03 min

Lab File: BE092624.D

Acq: 27 Dec 2016 15:59

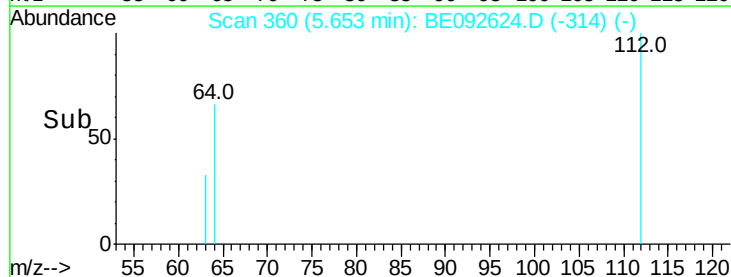
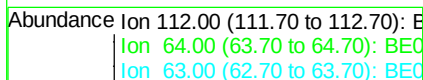
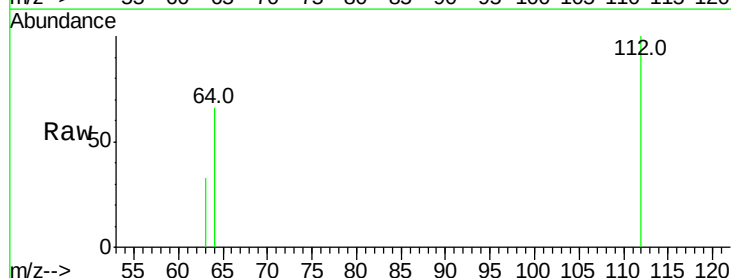
Tgt Ion:112 Resp: 20813

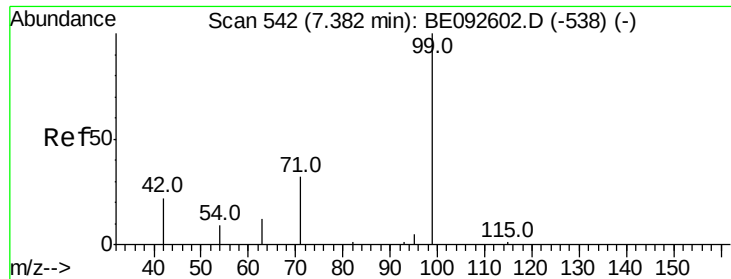
Ion Ratio Lower Upper

112 100

64 68.4 53.5 80.3

63 36.7 27.9 41.9





#5

Phenol-d6

Concen: 8.26 ng

RT: 7.31 min Scan# 539

Delta R.T. -0.07 min

Lab File: BE092624.D

Acq: 27 Dec 2016 15:59

Instrument :

BNA\_E

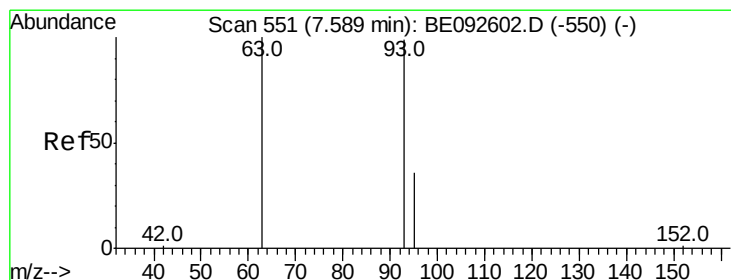
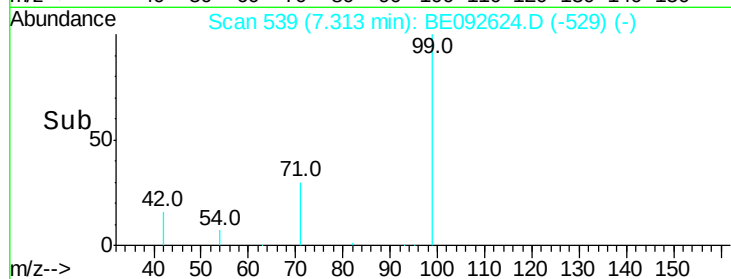
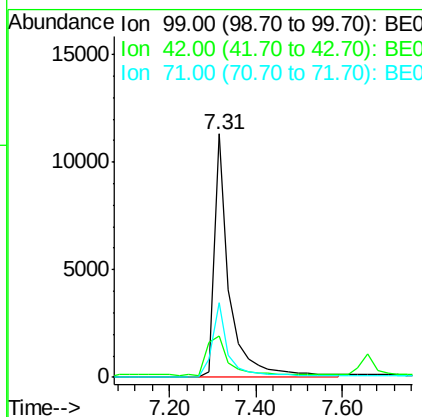
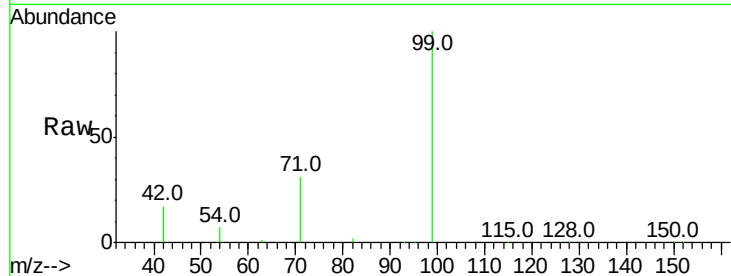
ClientSampleId :

LOQ-SOIL-02-QT1-2017

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 99    | Resp: | 27339 |
| Ion Ratio | Lower | Upper |       |
| 99        | 100   |       |       |
| 42        | 24.1  | 16.0  | 24.0# |
| 71        | 32.7  | 30.6  | 45.8  |

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#6

bis(2-Chloroethyl)ether

Concen: 0.24 ng

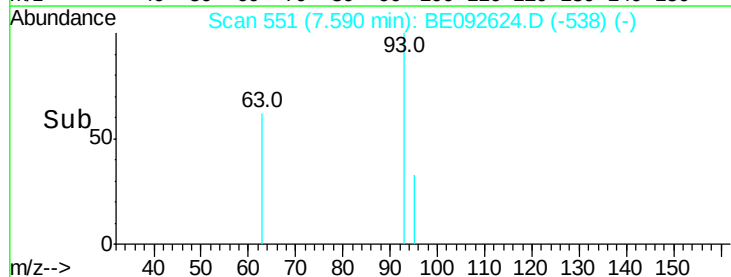
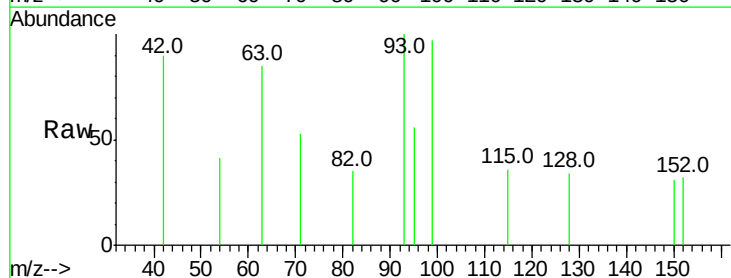
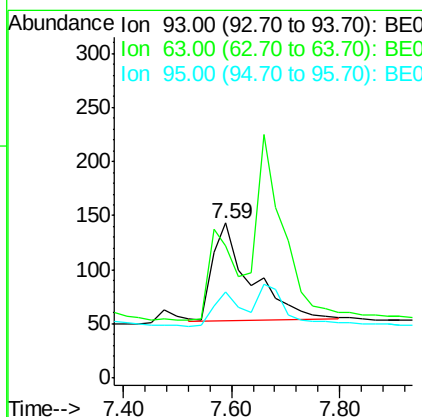
RT: 7.59 min Scan# 551

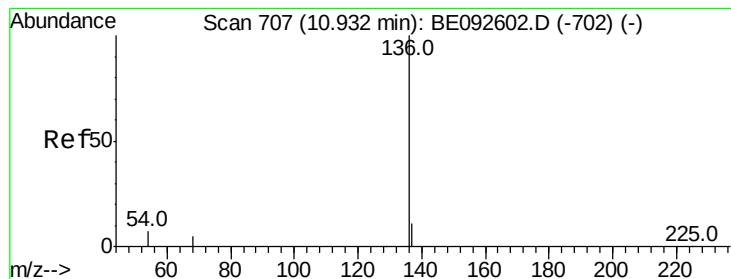
Delta R.T. 0.00 min

Lab File: BE092624.D

Acq: 27 Dec 2016 15:59

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 93    | Resp: | 442    |
| Ion Ratio | Lower | Upper |        |
| 93        | 100   |       |        |
| 63        | 0.0   | 71.6  | 107.4# |
| 95        | 25.3  | 24.0  | 36.0   |





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.93 min Scan# 707

Delta R.T. 0.00 min

Lab File: BE092624.D

Acq: 27 Dec 2016 15:59

Instrument :

BNA\_E

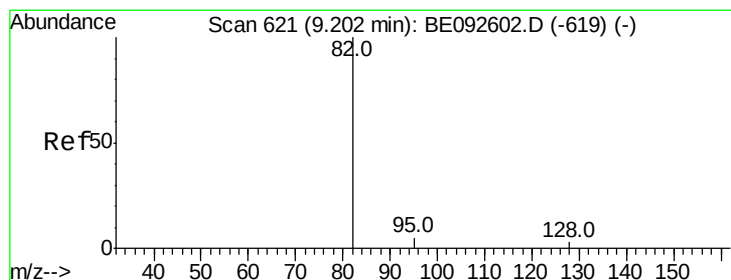
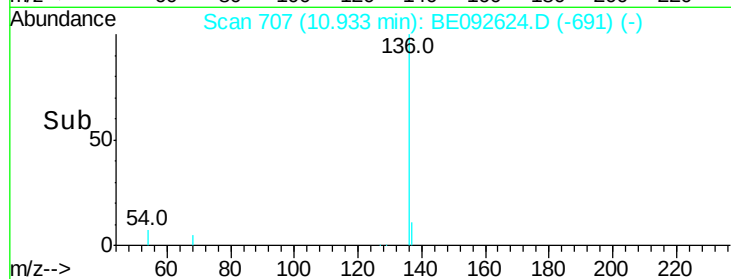
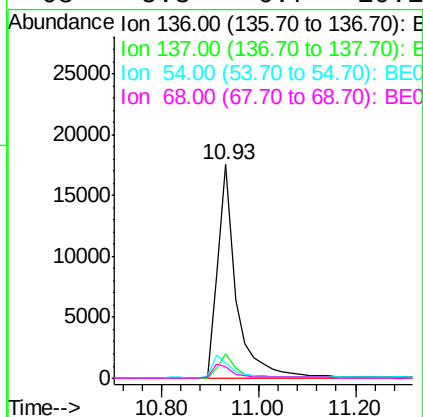
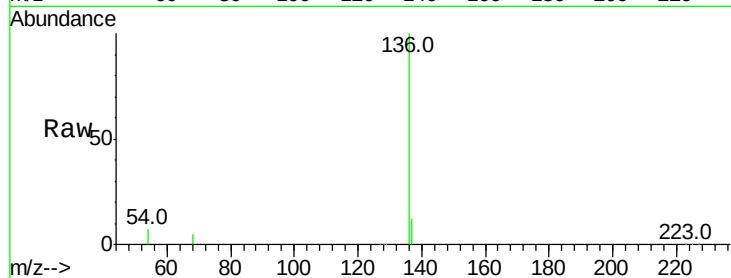
ClientSampleId :

LOQ-SOIL-02-QT1-2017

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 136     | 100   | 46322 |       |       |
| 137     | 11.5  |       | 8.2   | 12.4  |
| 54      | 7.4   |       | 9.6   | 14.4# |
| 68      | 5.3   |       | 6.7   | 10.1# |

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#8

Nitrobenzene-d5

Concen: 3.95 ng

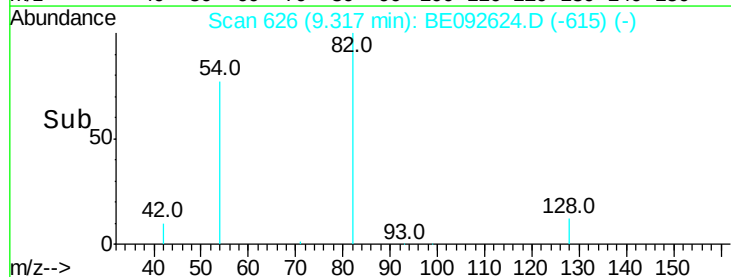
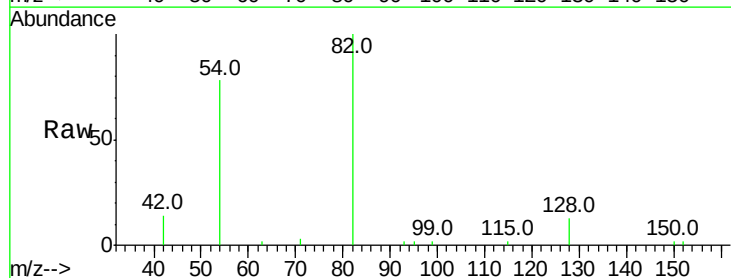
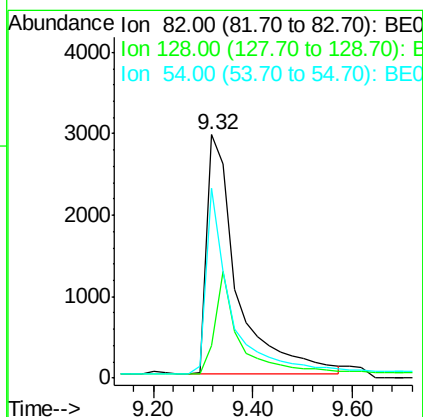
RT: 9.32 min Scan# 626

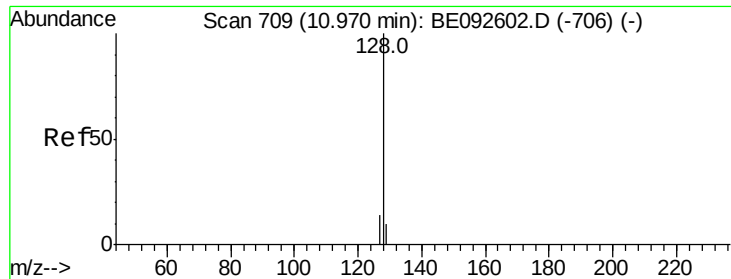
Delta R.T. -0.04 min

Lab File: BE092624.D

Acq: 27 Dec 2016 15:59

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 82      | 100   | 12535 |       |       |
| 128     | 13.2  |       | 39.0  | 58.4# |
| 54      | 77.8  |       | 44.8  | 67.2# |





#9

Naphthalene

Concen: 0.18 ng

RT: 10.97 min Scan# 709

Delta R.T. 0.00 min

Lab File: BE092624.D

Acq: 27 Dec 2016 15:59

Instrument :

BNA\_E

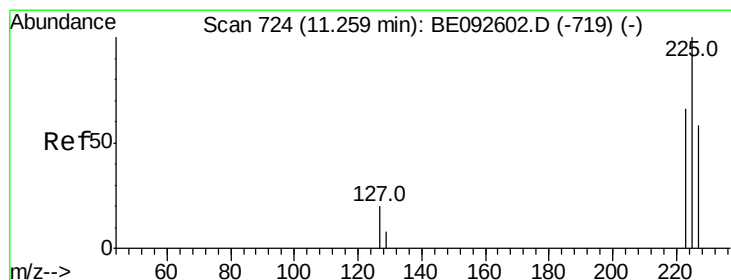
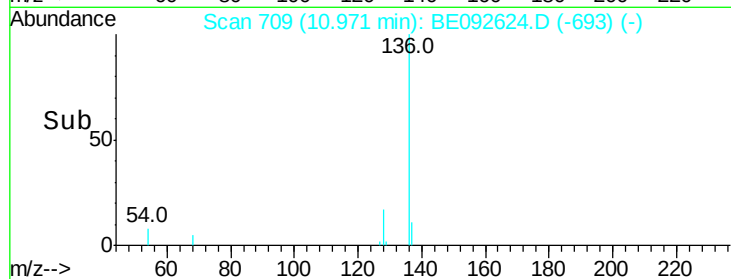
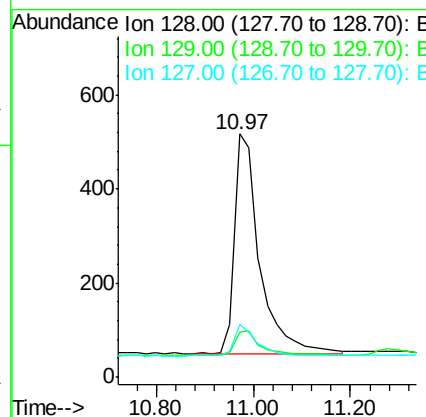
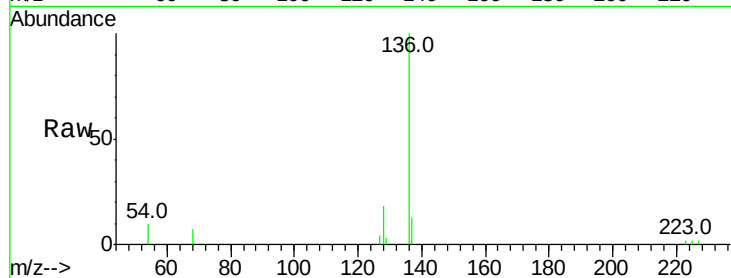
ClientSampleId :

LOQ-SOIL-02-QT1-2017

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 1672  |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 18.6  | 11.2  | 16.8# |
| 127       | 21.7  | 11.6  | 17.4# |

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#10

Hexachlorobutadiene

Concen: 0.18 ng

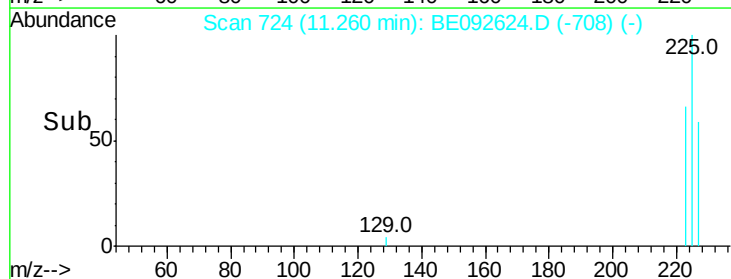
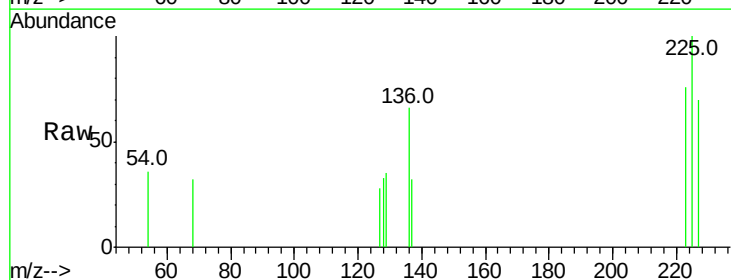
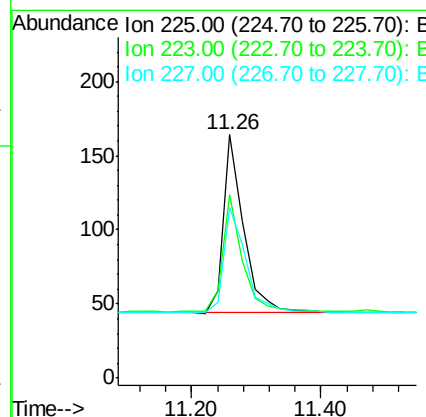
RT: 11.26 min Scan# 724

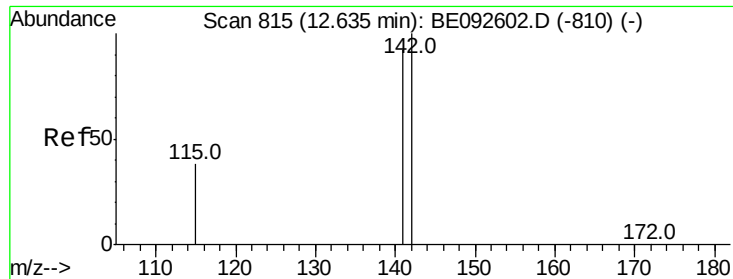
Delta R.T. 0.00 min

Lab File: BE092624.D

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|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 225   | Resp: | 262  |
| Ion Ratio | Lower | Upper |      |
| 225       | 100   |       |      |
| 223       | 69.1  | 50.6  | 76.0 |
| 227       | 64.5  | 51.4  | 77.0 |





#11

2-Methylnaphthalene

Concen: 0.15 ng

RT: 12.64 min Scan# 815

Delta R.T. 0.00 min

Lab File: BE092624.D

Acq: 27 Dec 2016 15:59

Instrument :

BNA\_E

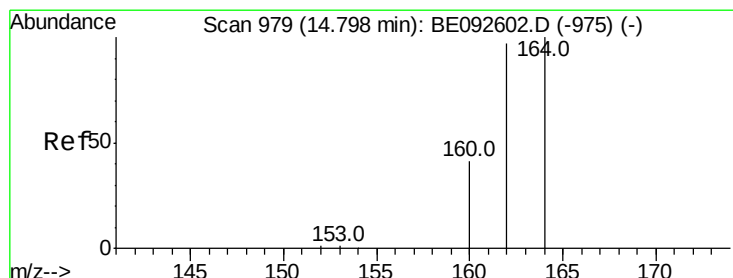
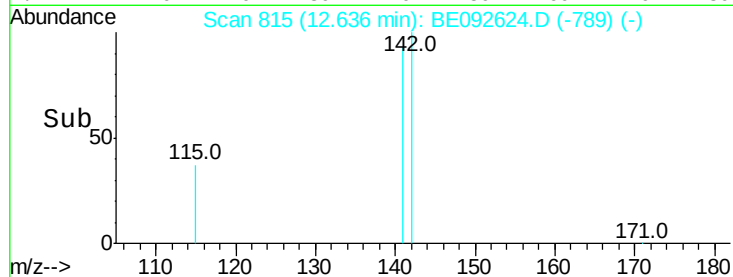
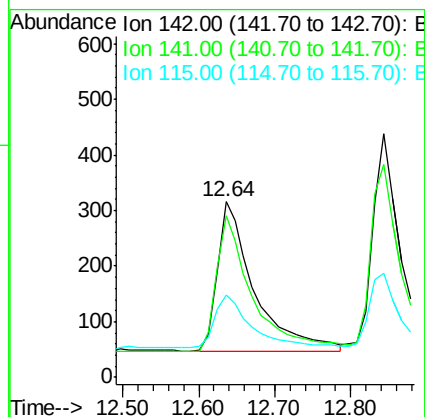
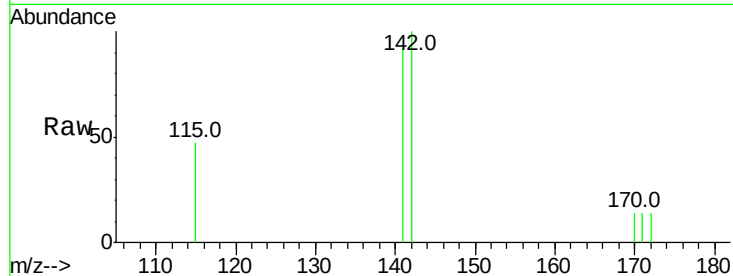
ClientSampleId :

LOQ-SOIL-02-QT1-2017

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 142   | Resp: | 896   |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 92.4  | 73.7  | 110.5 |
| 115       | 47.2  | 34.0  | 51.0  |

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#12

Acenaphthene-d10

Concen: 5.00 ng

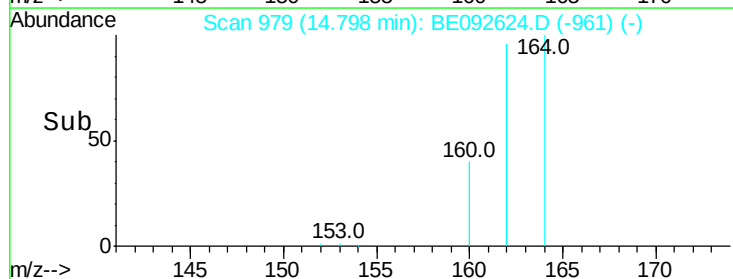
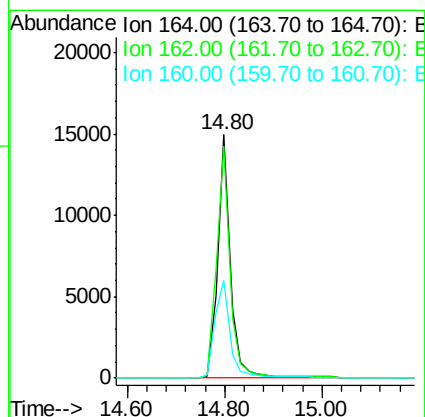
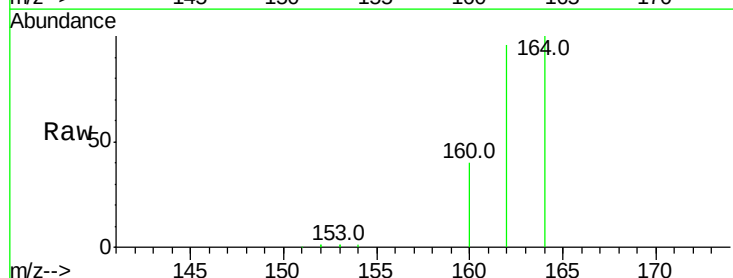
RT: 14.80 min Scan# 979

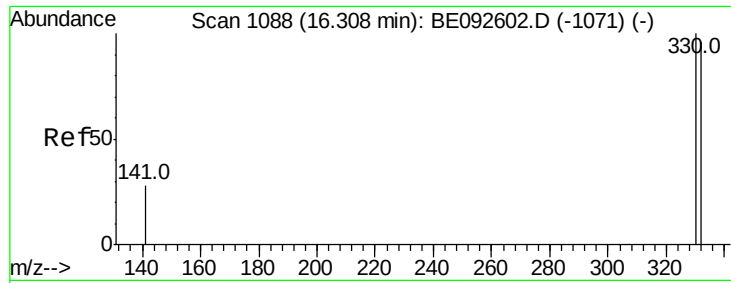
Delta R.T. 0.00 min

Lab File: BE092624.D

Acq: 27 Dec 2016 15:59

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 164   | Resp: | 26795 |
| Ion Ratio | Lower | Upper |       |
| 164       | 100   |       |       |
| 162       | 95.5  | 71.4  | 107.0 |
| 160       | 40.4  | 27.4  | 41.2  |





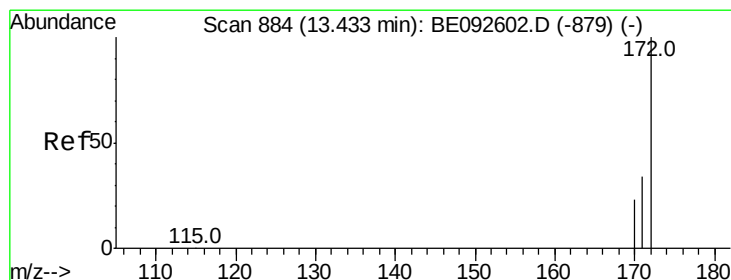
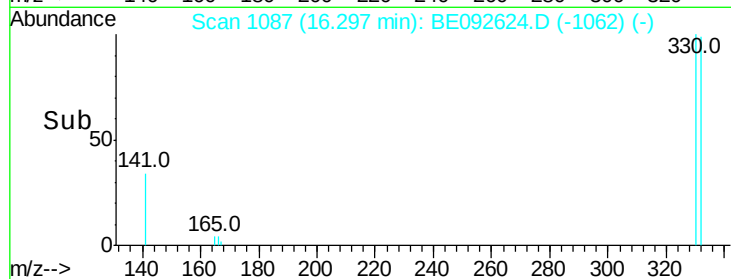
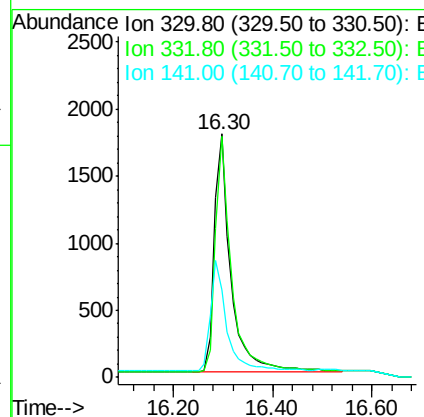
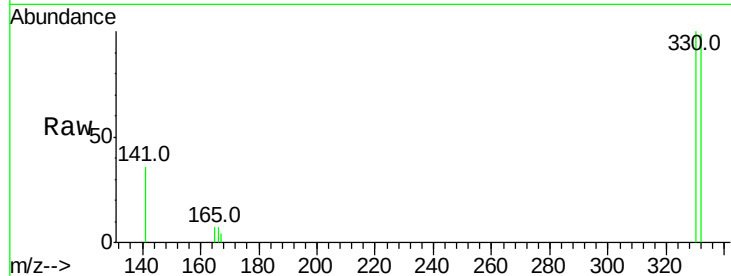
#13  
 2,4,6-Tribromophenol  
 Concen: 5.38 ng  
 RT: 16.30 min Scan# 1087  
 Delta R.T. -0.01 min  
 Lab File: BE092624.D  
 Acq: 27 Dec 2016 15:59

Instrument :  
 BNA\_E  
 ClientSampleId :  
 LOQ-SOIL-02-QT1-2017

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.3  | 75.4  | 113.0 |
| 141     | 45.6  | 31.0  | 46.6  |

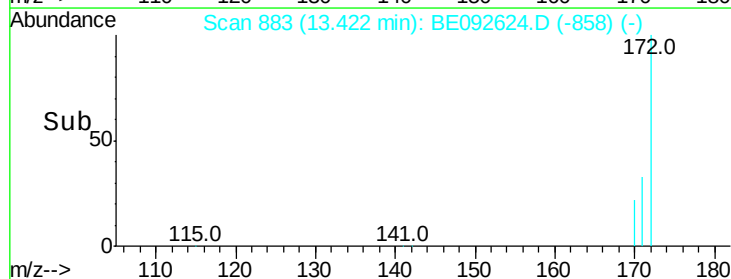
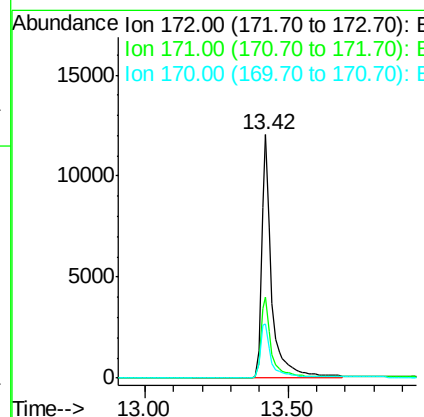
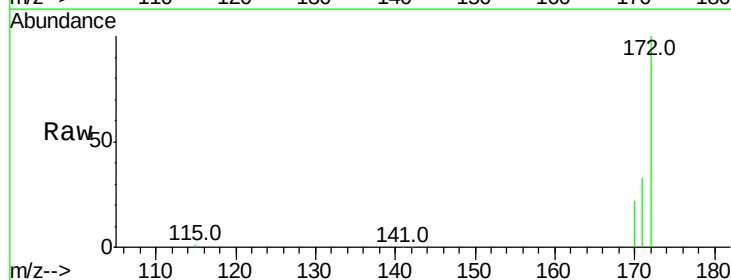
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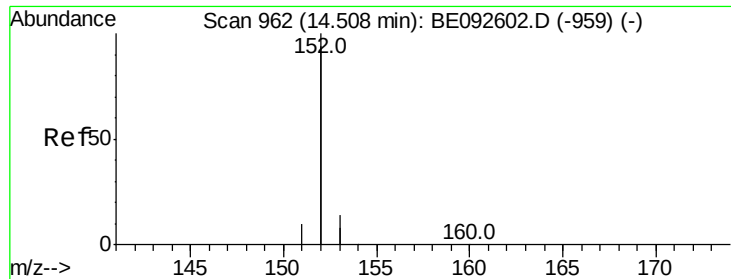


#14  
 2-Fluorobiphenyl  
 Concen: 4.44 ng  
 RT: 13.42 min Scan# 883  
 Delta R.T. -0.01 min  
 Lab File: BE092624.D  
 Acq: 27 Dec 2016 15:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 33.2  | 30.1  | 45.1  |
| 170     | 22.0  | 21.8  | 32.6  |







#15

Acenaphthylene

Concen: 0.17 ng

RT: 14.51 min Scan# 962

Delta R.T. 0.00 min

Lab File: BE092624.D

Acq: 27 Dec 2016 15:59

Instrument :

BNA\_E

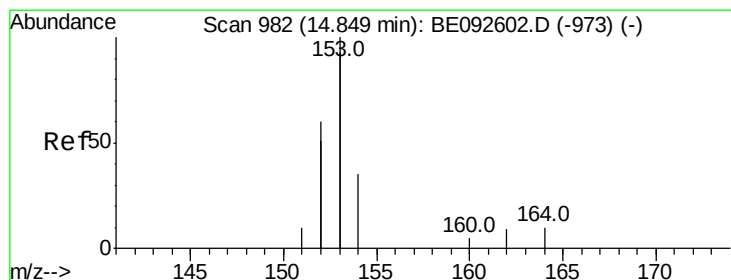
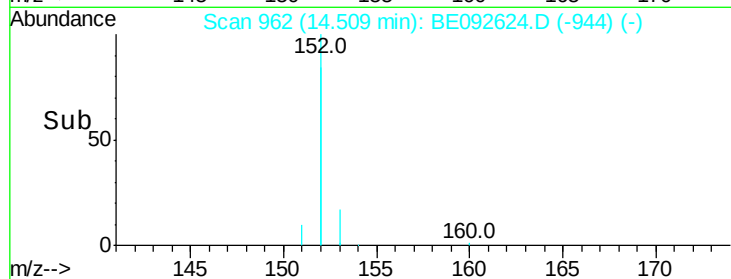
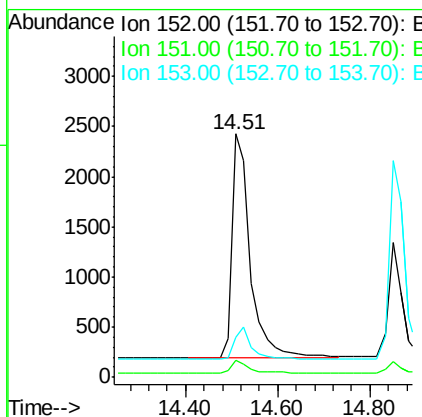
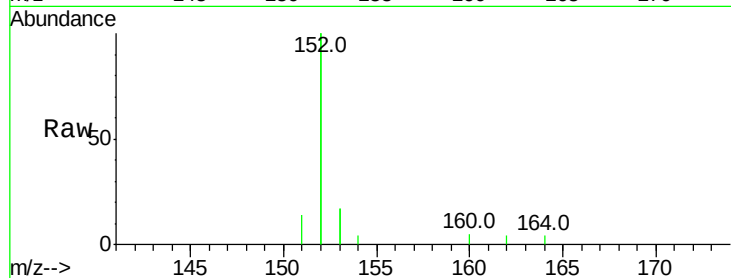
ClientSampleId :

LOQ-SOIL-02-QT1-2017

|             |       |       |
|-------------|-------|-------|
| Tot Ion:152 | Resp: | 6189  |
| Ion Ratio   | Lower | Upper |
| 152 100     |       |       |
| 151 5.0     | 3.9   | 5.9   |
| 153 13.3    | 10.4  | 15.6  |

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#16

Acenaphthene

Concen: 0.18 ng

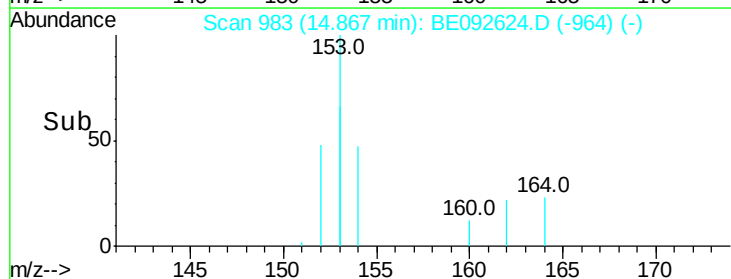
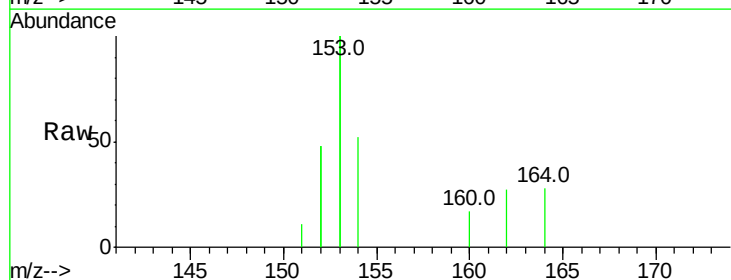
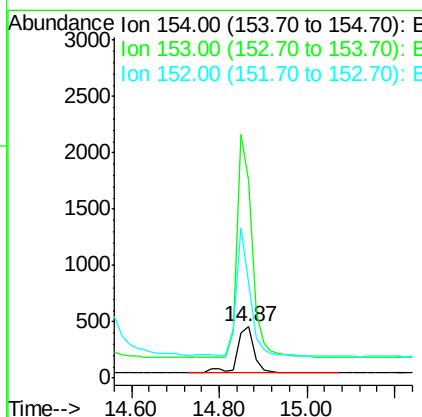
RT: 14.87 min Scan# 983

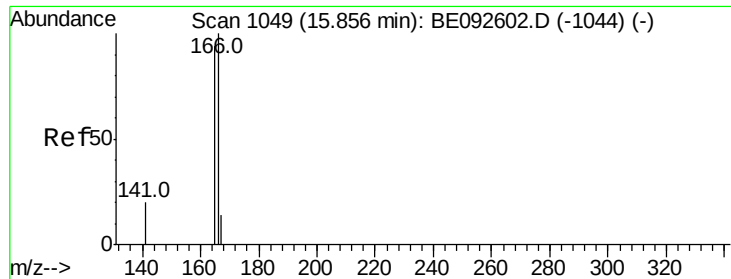
Delta R.T. 0.02 min

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|             |       |       |
|-------------|-------|-------|
| Tgt Ion:154 | Resp: | 1109  |
| Ion Ratio   | Lower | Upper |
| 154 100     |       |       |
| 153 409.2   | 350.8 | 526.2 |
| 152 216.2   | 171.1 | 256.7 |





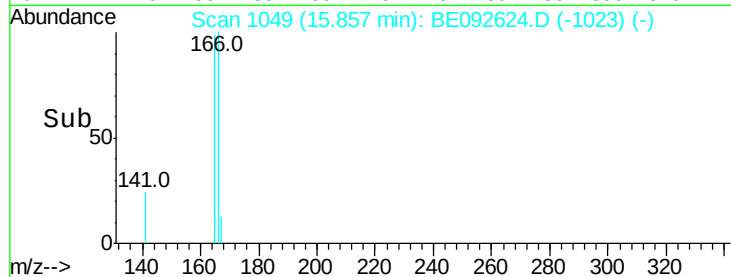
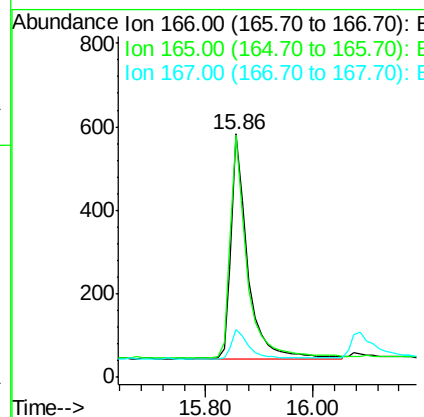
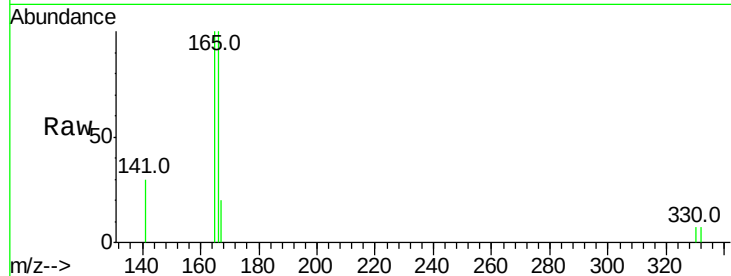
#17  
Fluorene  
Concen: 0.15 ng  
RT: 15.86 min Scan# 1049  
Delta R.T. 0.00 min  
Lab File: BE092624.D  
Acq: 27 Dec 2016 15:59

Instrument :  
BNA\_E  
ClientSampleId :  
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| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 98.4  | 78.2  | 117.4 |
| 167     | 13.3  | 11.0  | 16.4  |

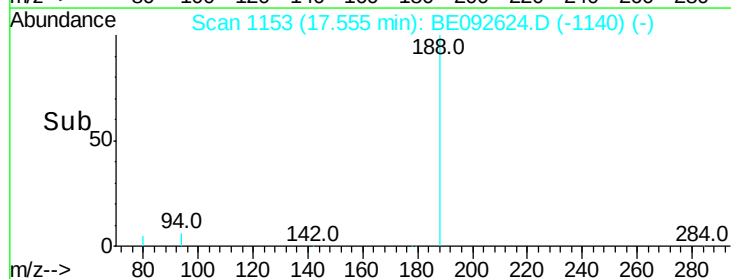
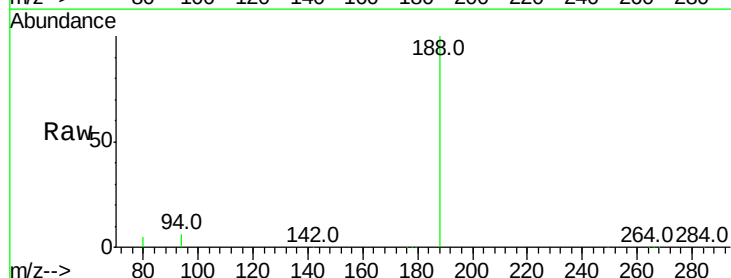
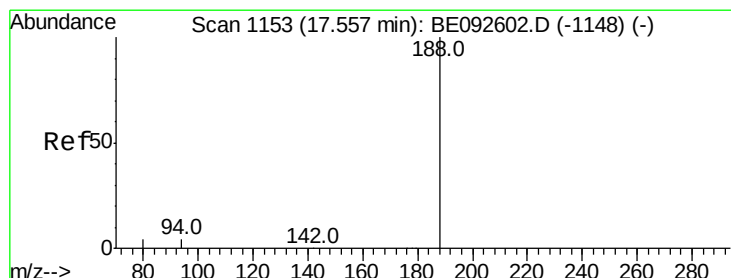
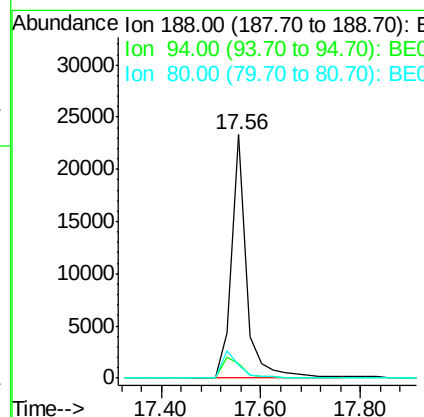
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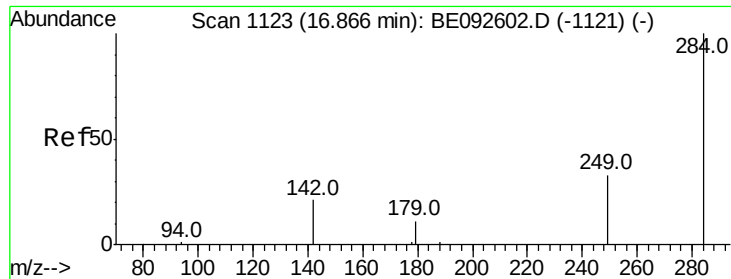
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#18  
Phenanthrene-d10  
Concen: 5.00 ng  
RT: 17.56 min Scan# 1153  
Delta R.T. -0.00 min  
Lab File: BE092624.D  
Acq: 27 Dec 2016 15:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 5.8   | 3.2   | 4.8#  |
| 80      | 5.5   | 2.6   | 3.8#  |





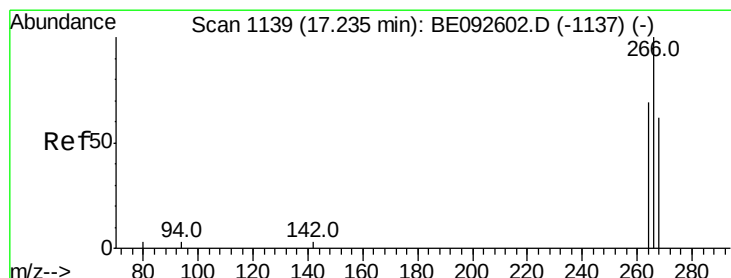
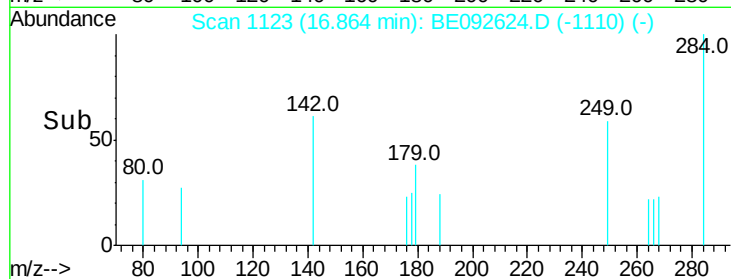
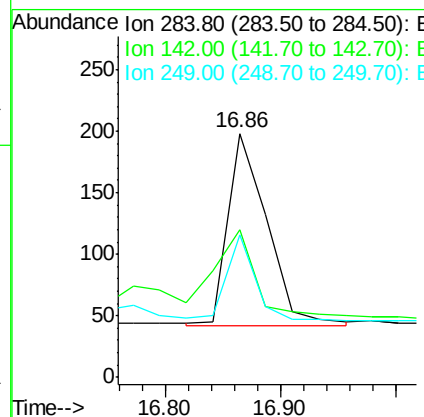
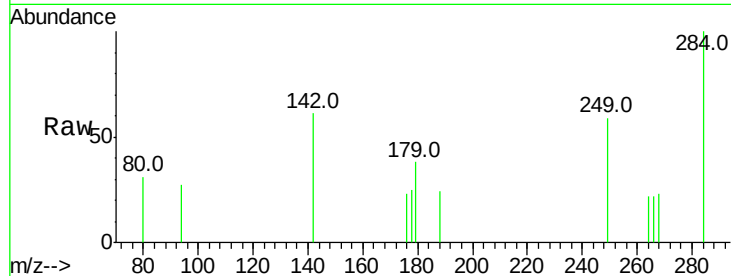
#19  
Hexachlorobenzene  
Concen: 0.18 ng m  
RT: 16.86 min Scan# 1123  
Delta R.T. -0.00 min  
Lab File: BE092624.D  
Acq: 27 Dec 2016 15:59

Instrument :  
BNA\_E  
ClientSampleId :  
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| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 417.6 | 29.1  | 43.7# |
| 249     | 60.3  | 27.9  | 41.9# |

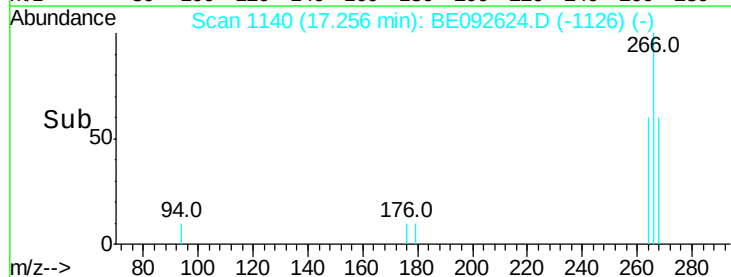
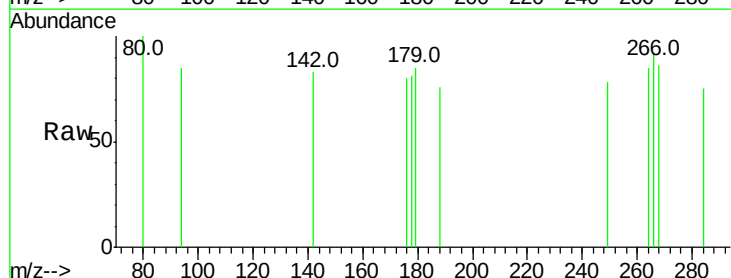
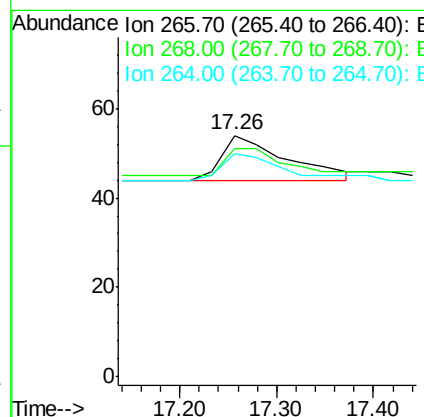
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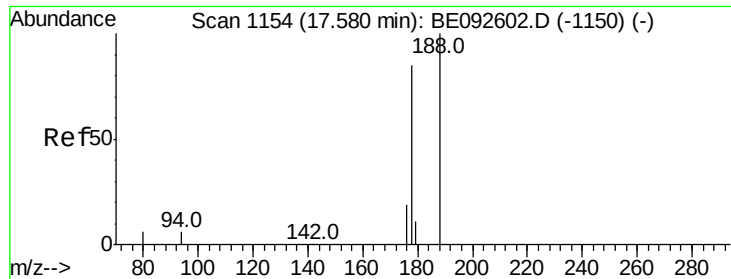
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#20  
Pentachlorophenol  
Concen: 0.17 ng m  
RT: 17.26 min Scan# 1140  
Delta R.T. 0.02 min  
Lab File: BE092624.D  
Acq: 27 Dec 2016 15:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 268     | 94.4  | 62.5  | 93.7# |
| 264     | 92.6  | 57.2  | 85.8# |





#21

Phenanthrene

Concen: 0.16 ng m

RT: 17.60 min Scan# 1155

Delta R.T. 0.02 min

Lab File: BE092624.D

Acq: 27 Dec 2016 15:59

Instrument :

BNA\_E

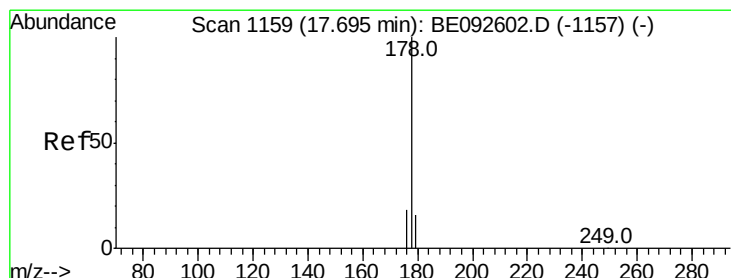
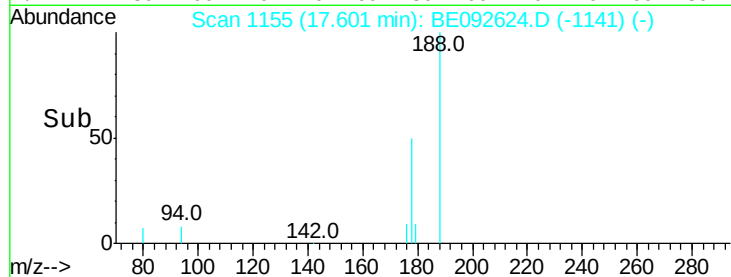
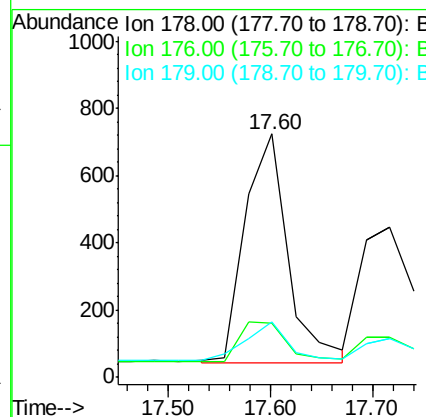
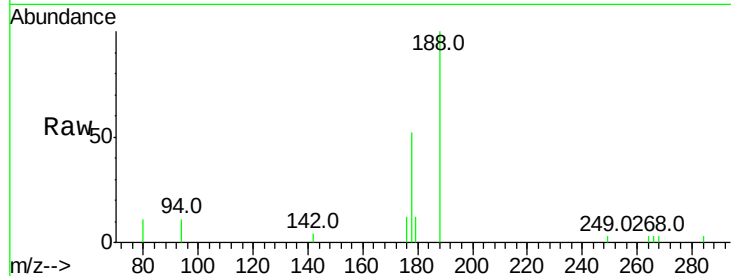
ClientSampleId :

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| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 12.9  | 15.8  | 23.8# |
| 179     | 11.1  | 16.0  | 24.0# |

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#22

Anthracene

Concen: 0.15 ng

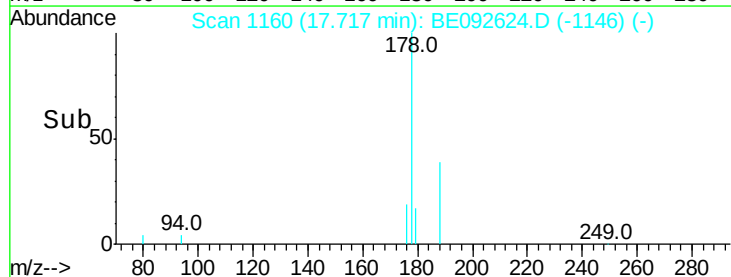
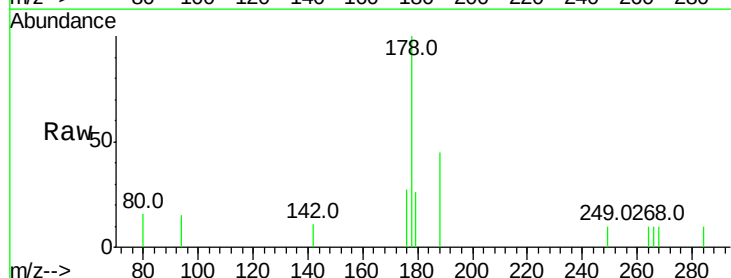
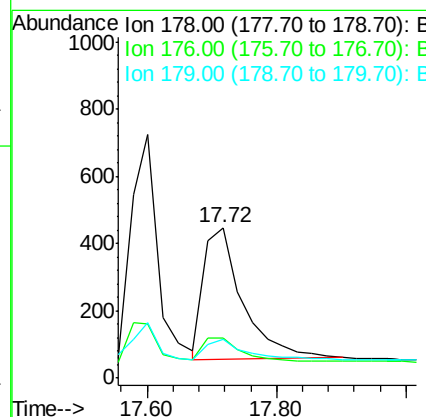
RT: 17.72 min Scan# 1160

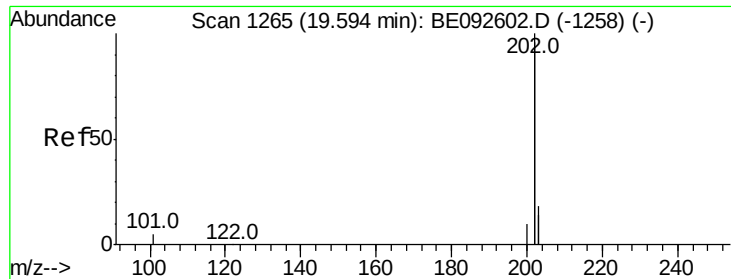
Delta R.T. 0.02 min

Lab File: BE092624.D

Acq: 27 Dec 2016 15:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.7  | 15.0  | 22.4  |
| 179     | 16.6  | 12.2  | 18.2  |





#23

Fluoranthene

Concen: 0.14 ng

RT: 19.61 min Scan# 1266

Delta R.T. 0.02 min

Lab File: BE092624.D

Acq: 27 Dec 2016 15:59

Instrument :

BNA\_E

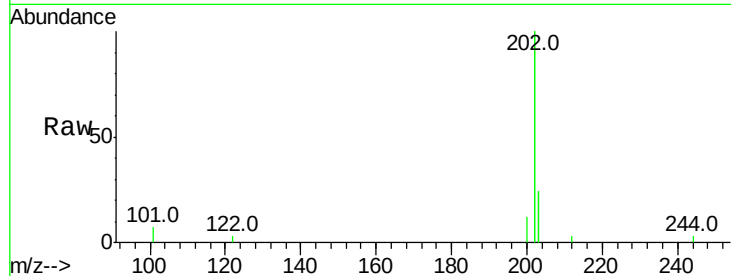
ClientSampleId :

LOQ-SOIL-02-QT1-2017

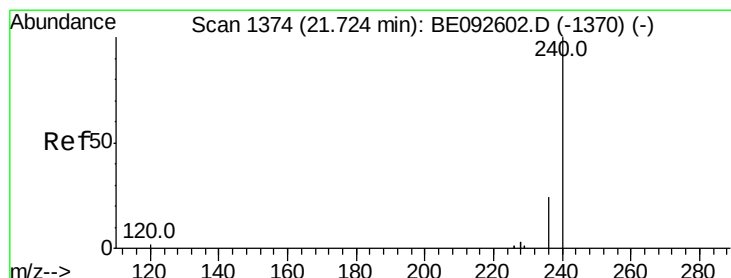
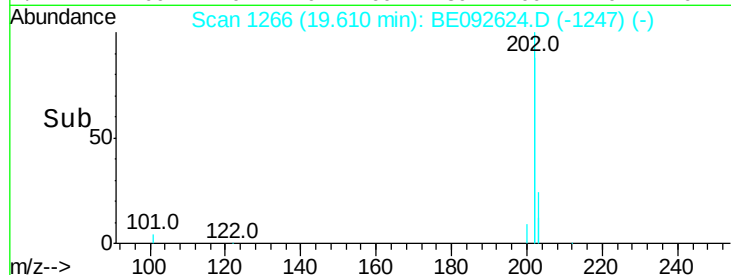
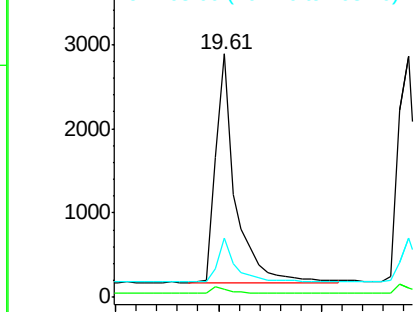
|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 202   | Resp: | 7159 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 101       | 3.0   | 2.2   | 3.4  |
| 203       | 17.3  | 13.7  | 20.5 |

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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



#24

Chrysene-d12

Concen: 5.00 ng

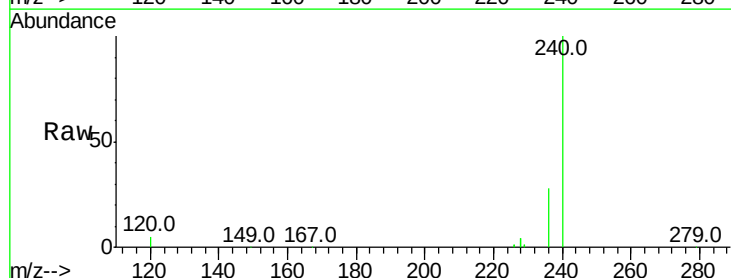
RT: 21.72 min Scan# 1374

Delta R.T. -0.00 min

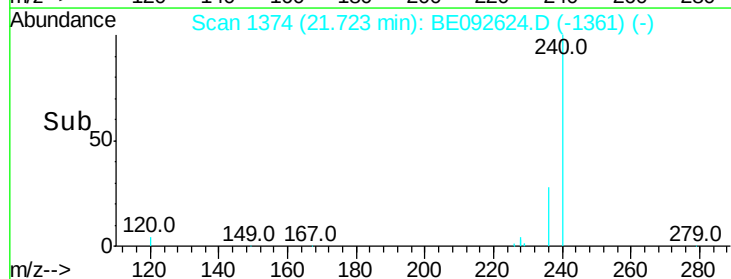
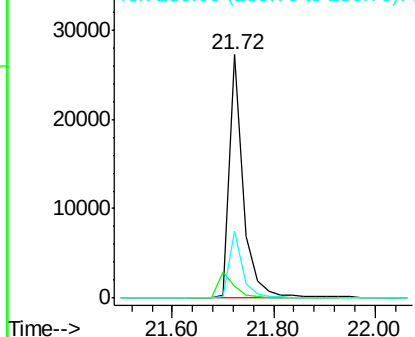
Lab File: BE092624.D

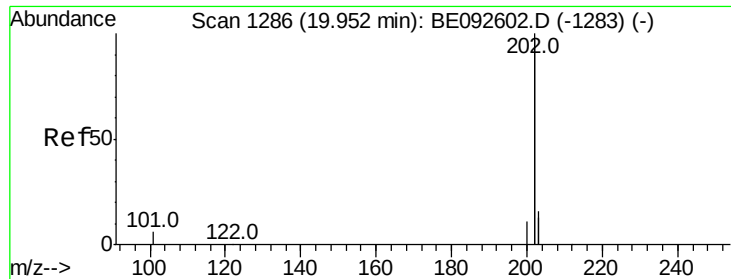
Acq: 27 Dec 2016 15:59

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 240   | Resp: | 51585 |
| Ion Ratio | Lower | Upper |       |
| 240       | 100   |       |       |
| 120       | 4.7   | 2.6   | 4.0#  |
| 236       | 27.6  | 24.6  | 37.0  |



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





#25

Pvrene

Concen: 0.16 ng

RT: 19.97 min Scan# 1287

Delta R.T. 0.02 min

Lab File: BE092624.D

Acq: 27 Dec 2016 15:59

Instrument :

BNA\_E

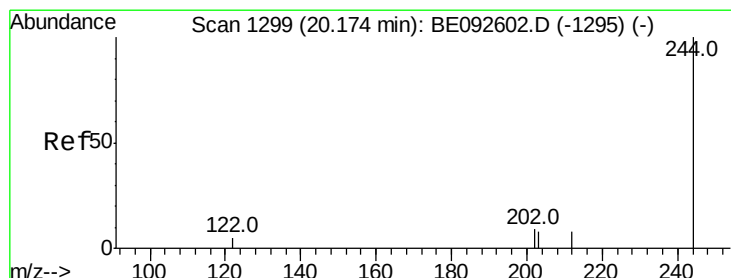
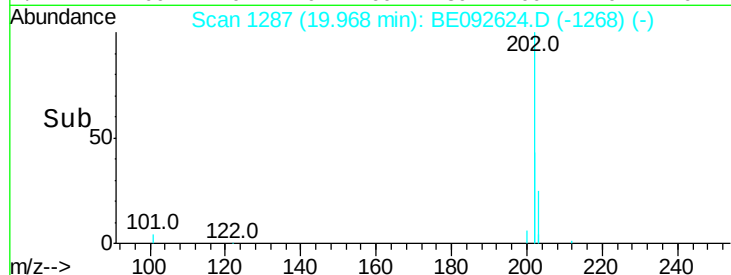
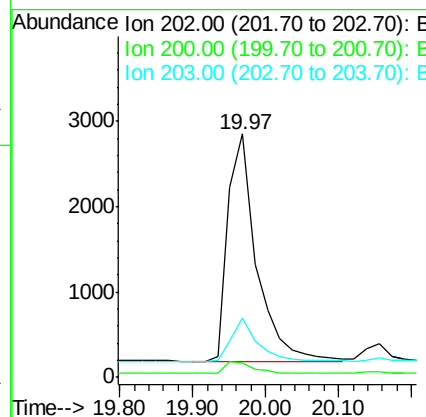
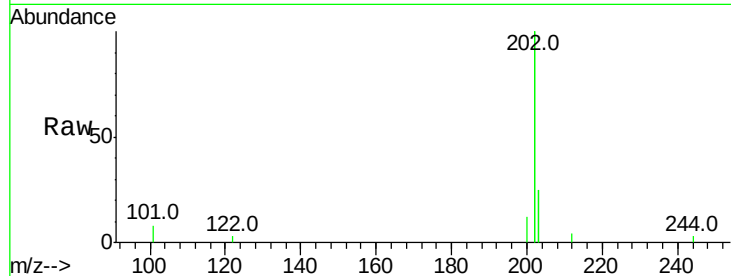
ClientSampleId :

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|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 202   | Resp: | 7232 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 200       | 5.3   | 4.2   | 6.4  |
| 203       | 17.9  | 13.9  | 20.9 |

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#26

Terphenyl-d14

Concen: 4.60 ng

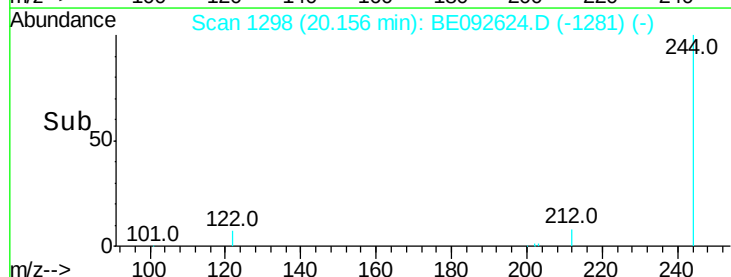
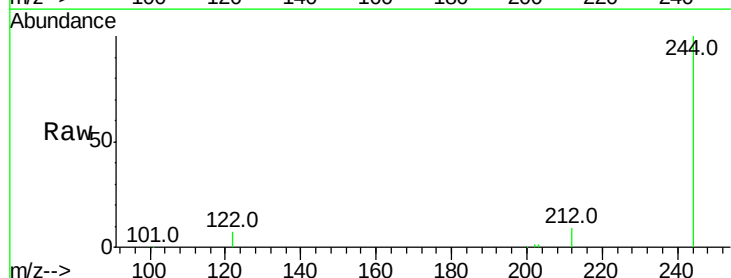
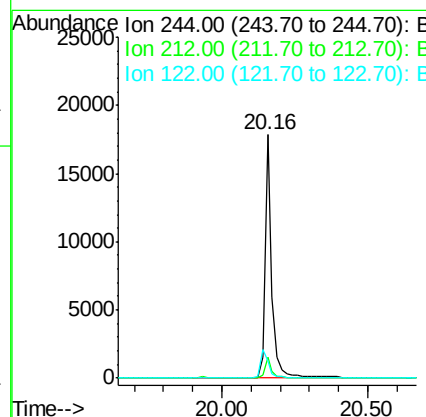
RT: 20.16 min Scan# 1298

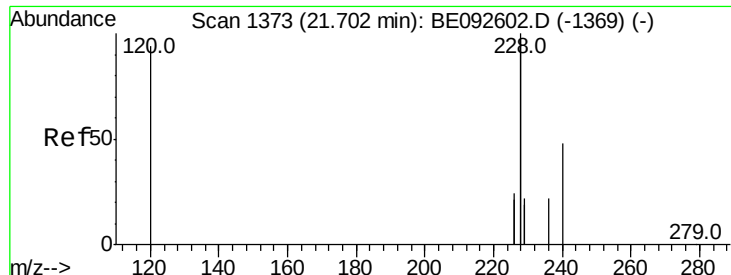
Delta R.T. -0.02 min

Lab File: BE092624.D

Acq: 27 Dec 2016 15:59

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 244   | Resp: | 29105 |
| Ion Ratio | Lower | Upper |       |
| 244       | 100   |       |       |
| 212       | 8.6   | 6.7   | 10.1  |
| 122       | 7.0   | 3.6   | 5.4#  |





#27

Benzo(a)anthracene

Concen: 0.14 ng m

RT: 21.70 min Scan# 1373

Delta R.T. -0.00 min

Lab File: BE092624.D

Acq: 27 Dec 2016 15:59

Instrument :

BNA\_E

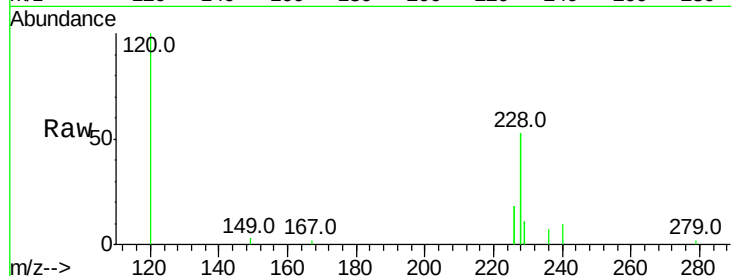
ClientSampleId :

LOQ-SOIL-02-QT1-2017

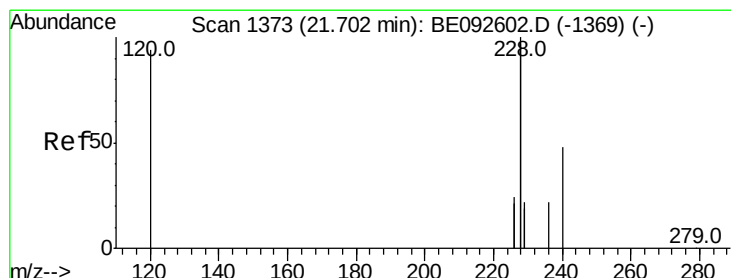
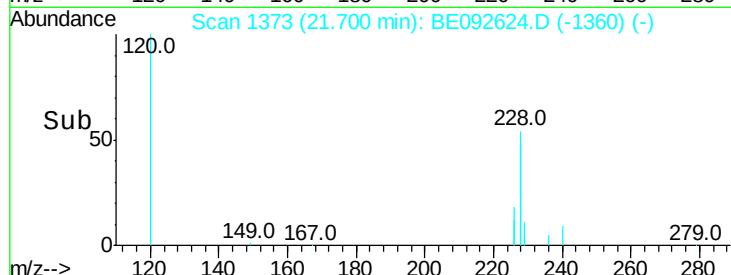
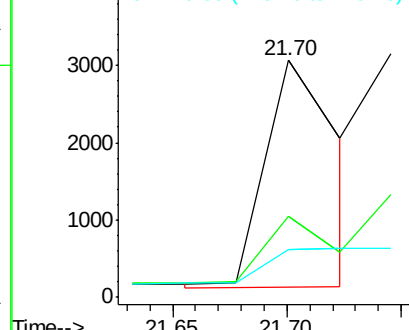
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 6683  |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 34.0  | 23.6  | 35.4  |
| 229       | 20.0  | 13.3  | 19.9# |

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Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E



#28

Chrysene

Concen: 0.17 ng m

RT: 21.75 min Scan# 1375

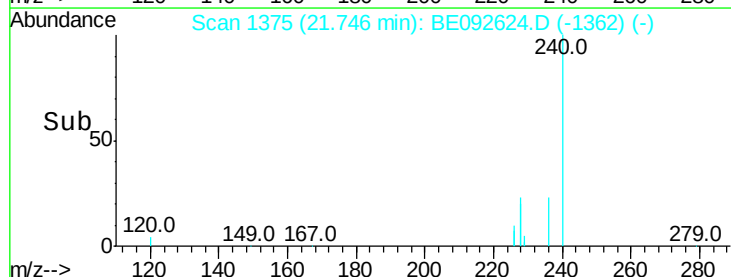
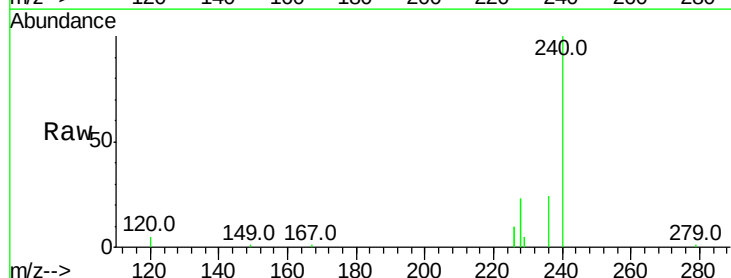
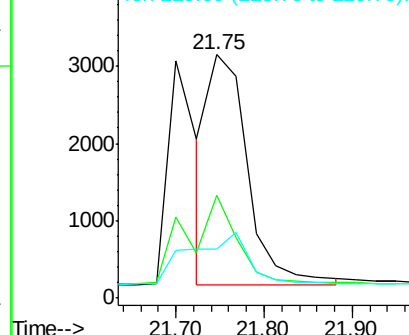
Delta R.T. -0.00 min

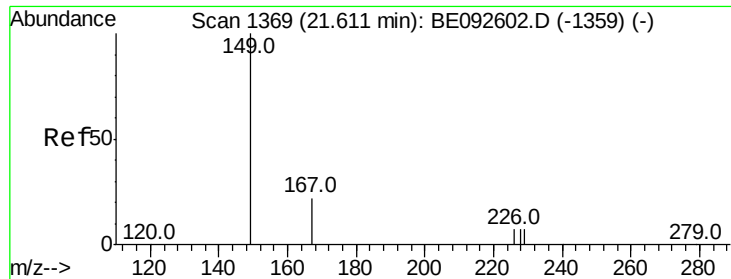
Lab File: BE092624.D

Acq: 27 Dec 2016 15:59

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 9380  |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 42.0  | 36.3  | 54.5  |
| 229       | 20.0  | 10.6  | 16.0# |

Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E





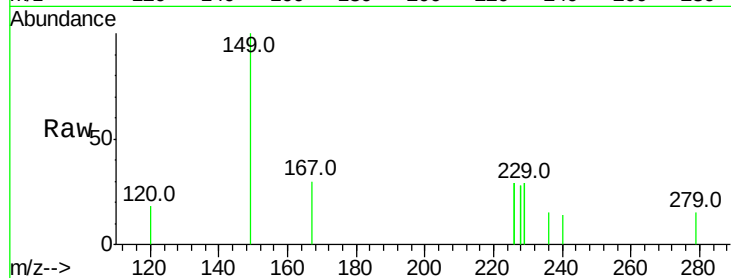
#29  
Bis(2-ethylhexyl)phthalate  
Concen: 0.17 ng  
RT: 21.61 min Scan# 1369  
Delta R.T. -0.00 min  
Lab File: BE092624.D  
Acq: 27 Dec 2016 15:59

Instrument :  
BNA\_E  
ClientSampleId :  
LOQ-SOIL-02-QT1-2017

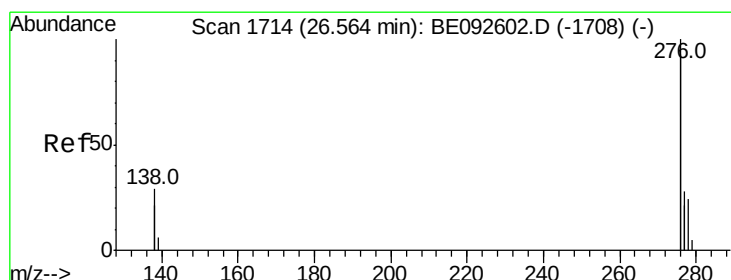
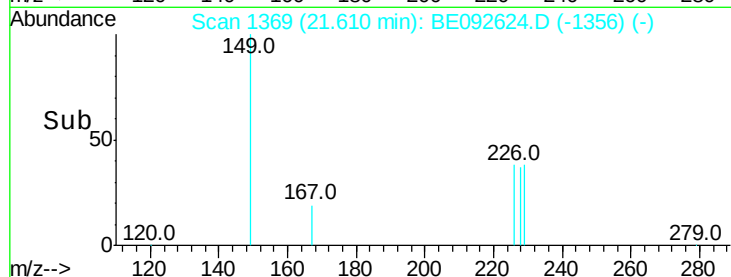
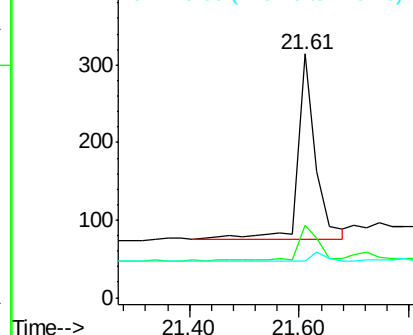
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 20.3  | 16.0  | 24.0  |
| 279     | 0.0   | 16.0  | 24.0  |

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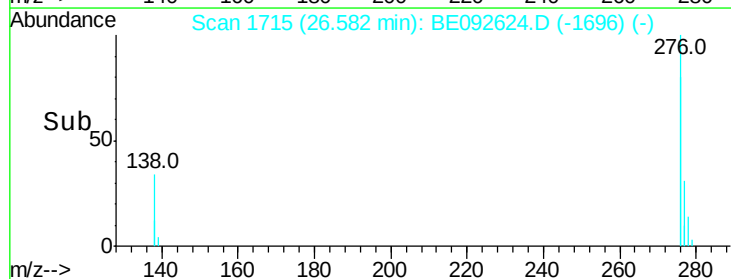
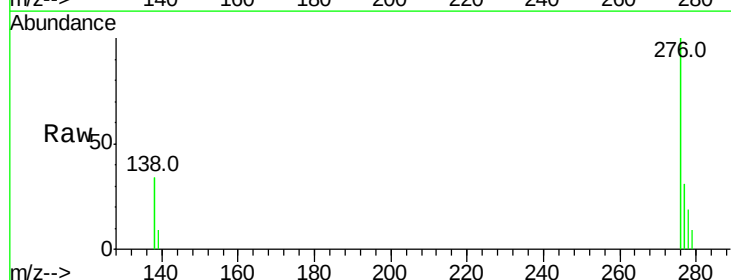
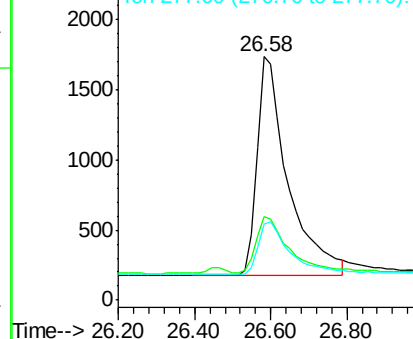
Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 167.00 (166.70 to 167.70): E  
Ion 279.00 (278.70 to 279.70): E



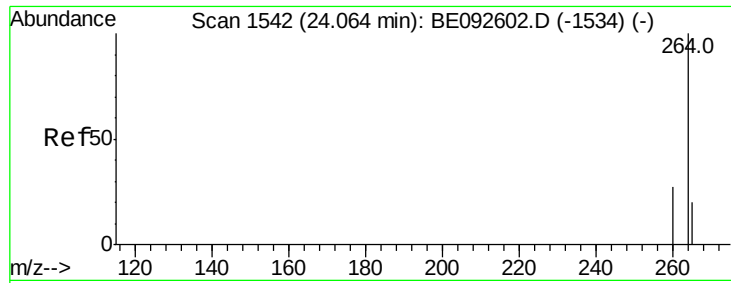
#30  
Indeno(1,2,3-cd)pyrene  
Concen: 0.18 ng  
RT: 26.58 min Scan# 1715  
Delta R.T. 0.02 min  
Lab File: BE092624.D  
Acq: 27 Dec 2016 15:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 26.6  | 20.3  | 30.5  |
| 277     | 24.4  | 19.7  | 29.5  |

Abundance Ion 276.00 (275.70 to 276.70): E  
Ion 138.00 (137.70 to 138.70): E  
Ion 277.00 (276.70 to 277.70): E







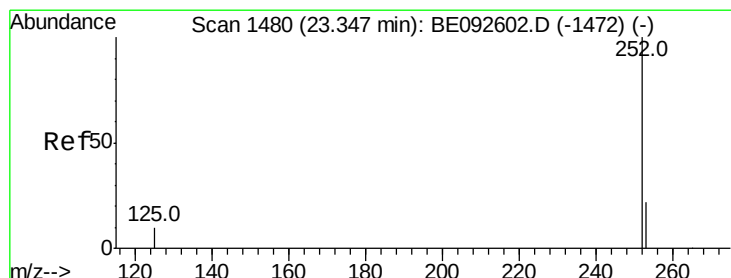
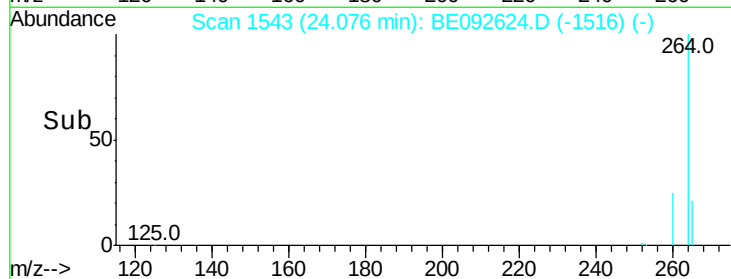
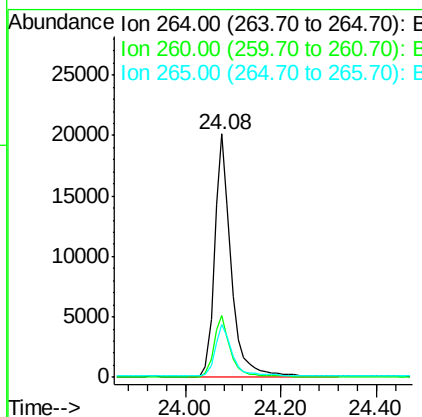
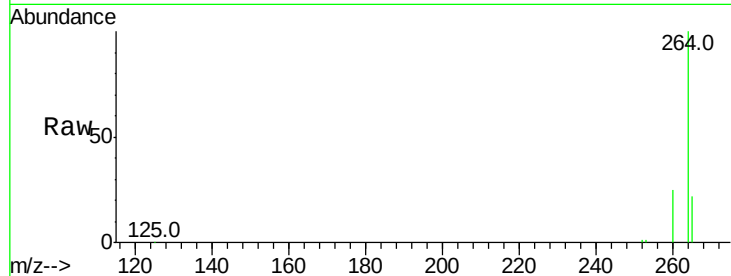
#31  
Pervlene-d12  
Concen: 5.00 ng  
RT: 24.08 min Scan# 1543  
Delta R.T. 0.01 min  
Lab File: BE092624.D  
Acq: 27 Dec 2016 15:59

Instrument :  
BNA\_E  
ClientSampleId :  
LOQ-SOIL-02-QT1-2017

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 25.2  | 20.1  | 30.1  |
| 265     | 21.6  | 17.9  | 26.9  |

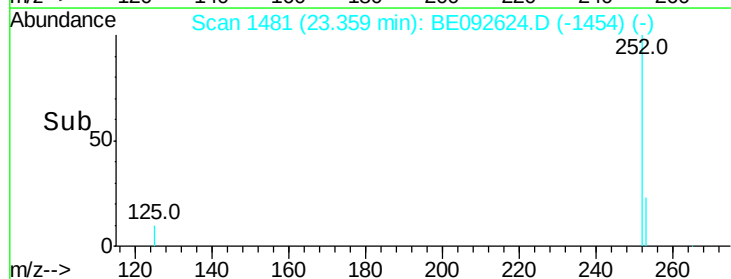
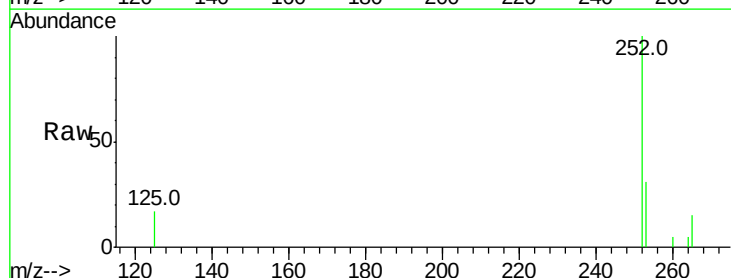
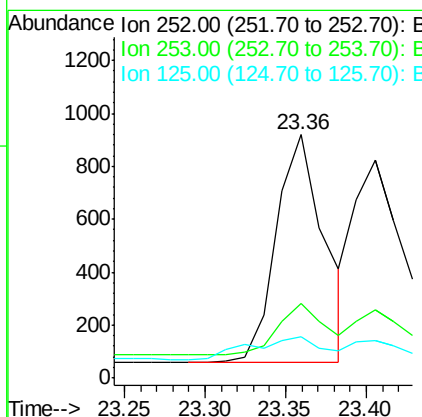
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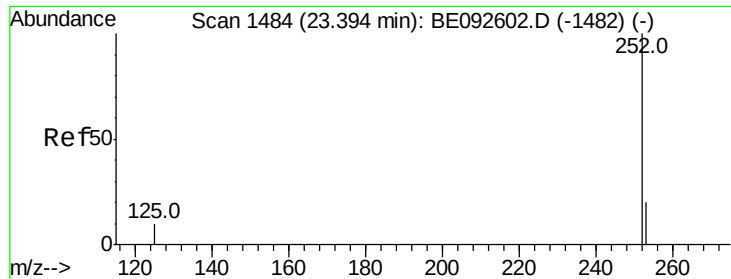
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#32  
Benzo(b)fluoranthene  
Concen: 0.16 ng  
RT: 23.36 min Scan# 1481  
Delta R.T. 0.01 min  
Lab File: BE092624.D  
Acq: 27 Dec 2016 15:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 30.7  | 18.7  | 28.1# |
| 125     | 16.7  | 10.5  | 15.7# |





#33

Benzo(k)fluoranthene

Concen: 0.17 ng

RT: 23.41 min Scan# 1485

Delta R.T. 0.01 min

Lab File: BE092624.D

Acq: 27 Dec 2016 15:59

Instrument :

BNA\_E

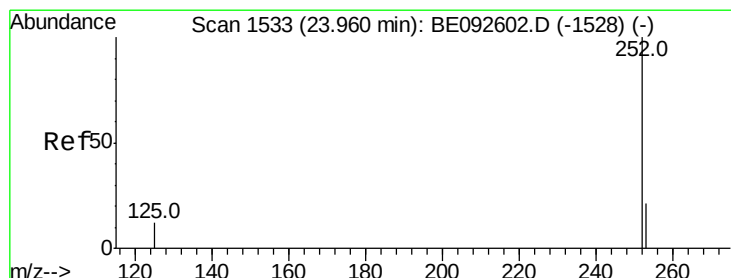
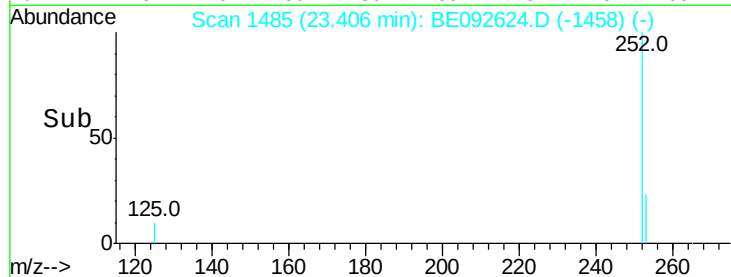
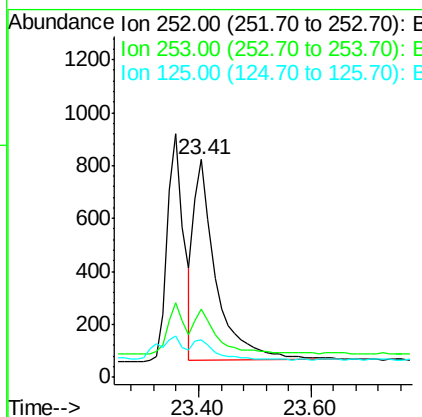
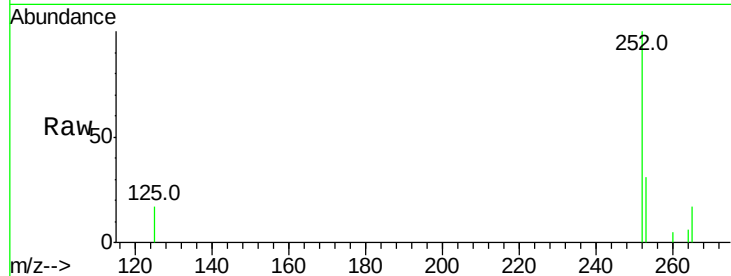
ClientSampleId :

LOQ-SOIL-02-QT1-2017

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 31.4  | 20.3  | 30.5# |
| 125     | 17.4  | 9.6   | 14.4# |

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#34

Benzo(a)pyrene

Concen: 0.16 ng

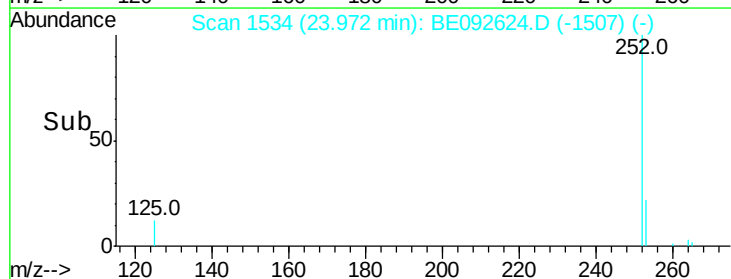
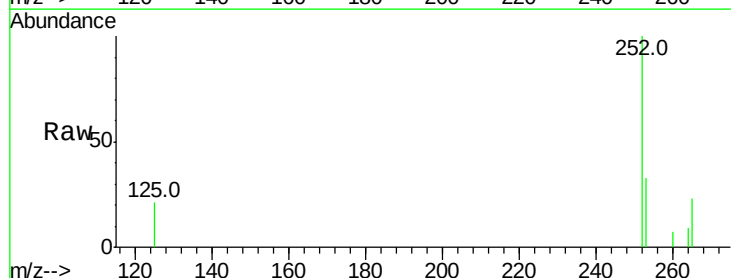
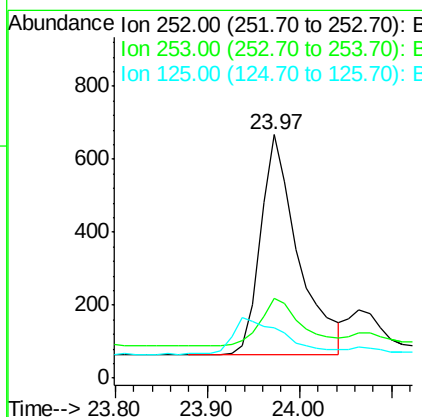
RT: 23.97 min Scan# 1534

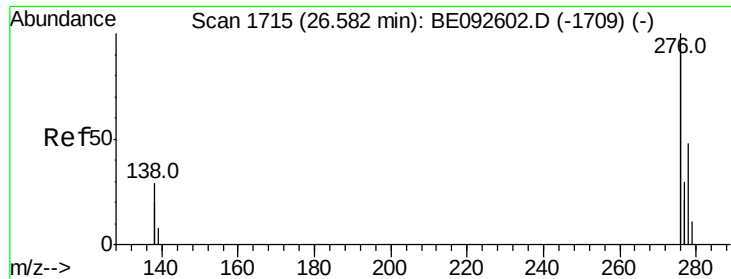
Delta R.T. 0.01 min

Lab File: BE092624.D

Acq: 27 Dec 2016 15:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 32.9  | 19.0  | 28.6# |
| 125     | 20.8  | 11.8  | 17.8# |





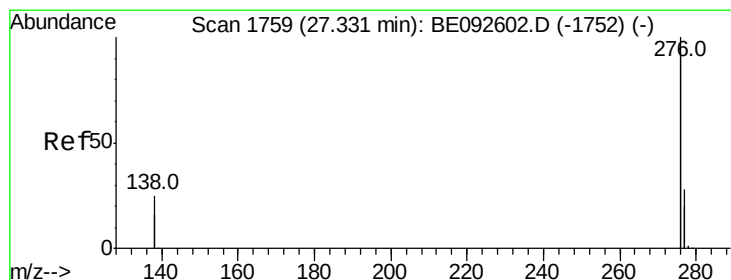
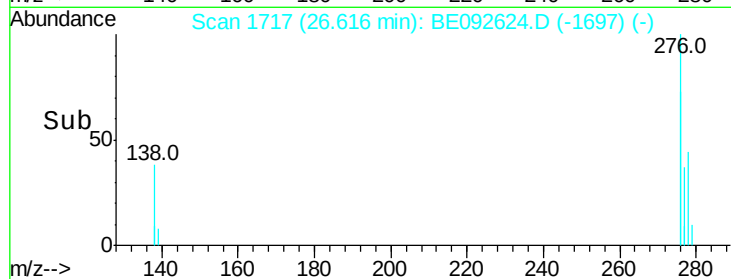
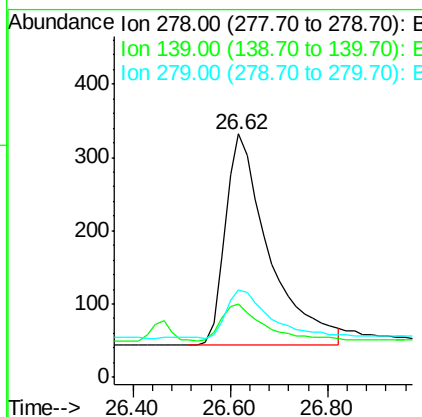
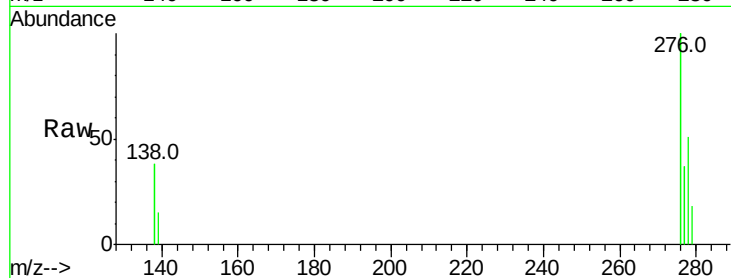
#35  
Dibenzo(a,h)anthracene  
Concen: 0.17 ng  
RT: 26.62 min Scan# 1717  
Delta R.T. 0.03 min  
Lab File: BE092624.D  
Acq: 27 Dec 2016 15:59

Instrument :  
BNA\_E  
ClientSampleId :  
LOQ-SOIL-02-QT1-2017

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 30.1  | 13.8  | 20.8# |
| 279     | 36.1  | 21.4  | 32.2# |

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#36  
Benzo(g,h,i)perylene  
Concen: 0.19 ng  
RT: 27.35 min Scan# 1760  
Delta R.T. 0.02 min  
Lab File: BE092624.D  
Acq: 27 Dec 2016 15:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 31.6  | 19.8  | 29.8# |
| 138     | 30.6  | 19.8  | 29.6# |

