

Data Path : Z:\SVOASRV\HPCHEM1\BNA N\DATA\BN070220\  
 Data File : BN011084.D  
 Acq On : 02 Jul 2020 13:58  
 Operator : CG/JU  
 Sample : L1955-01  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 MDL-SOIL-01

Quant Time: Jul 02 14:29:08 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN063020.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jun 30 14:12:13 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.52  | 152  | 1990     | 0.40 | ng    | 0.00     |
| 7) Naphthalene-d8         | 10.27 | 136  | 6449     | 0.40 | ng    | 0.00     |
| 13) Acenaphthene-d10      | 14.14 | 164  | 3414     | 0.40 | ng    | 0.01     |
| 19) Phenanthrene-d10      | 16.90 | 188  | 6770     | 0.40 | ng    | 0.00     |
| 29) Chrysene-d12          | 21.11 | 240  | 5723     | 0.40 | ng    | 0.00     |
| 36) Perylene-d12          | 23.25 | 264  | 5778     | 0.40 | ng    | 0.00     |

|                             |       |     |      |      |    |      |
|-----------------------------|-------|-----|------|------|----|------|
| System Monitoring Compounds |       |     |      |      |    |      |
| 4) 2-Fluorophenol           | 5.19  | 112 | 1955 | 0.39 | ng | 0.00 |
| 5) Phenol-d6                | 6.73  | 99  | 2011 | 0.35 | ng | 0.00 |
| 8) Nitrobenzene-d5          | 8.67  | 82  | 1769 | 0.32 | ng | 0.01 |
| 11) 2-Methylnaphthalene-d10 | 11.87 | 152 | 3746 | 0.34 | ng | 0.00 |
| 14) 2,4,6-Tribromophenol    | 15.65 | 330 | 467  | 0.33 | ng | 0.00 |
| 15) 2-Fluorobiphenyl        | 12.76 | 172 | 5100 | 0.32 | ng | 0.00 |
| 27) Fluoranthene-d10        | 18.94 | 212 | 7253 | 0.35 | ng | 0.00 |
| 31) Terphenyl-d14           | 19.56 | 244 | 5628 | 0.38 | ng | 0.00 |

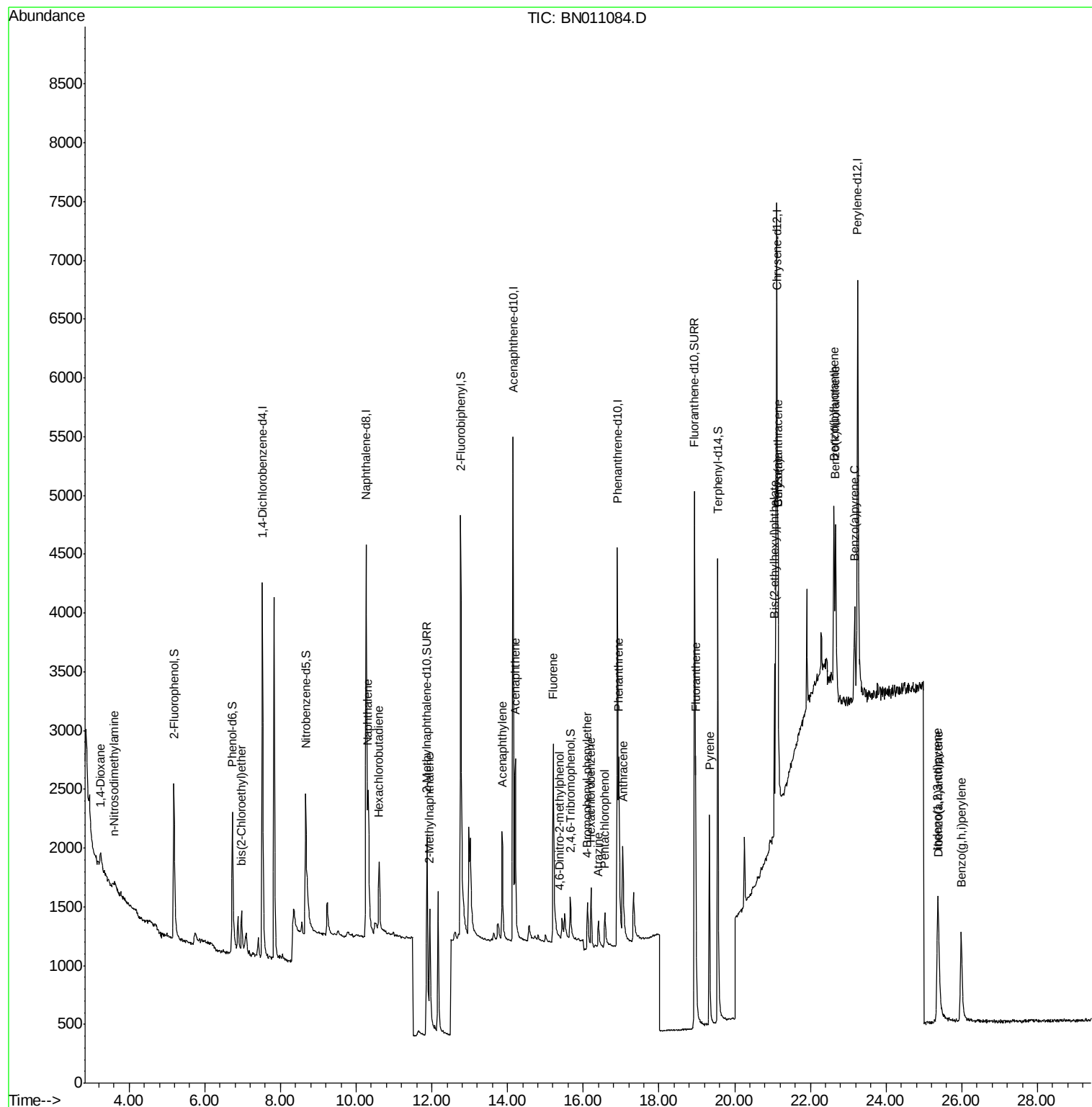
|                                |       |     |      |        |    |      |
|--------------------------------|-------|-----|------|--------|----|------|
| Target Compounds               |       |     |      | Qvalue |    |      |
| 2) 1,4-Dioxane                 | 3.24  | 88  | 229  | 0.082  | ng | 98   |
| 3) n-Nitrosodimethylamine      | 3.61  | 42  | 88   | 0.062  | ng | # 95 |
| 6) bis(2-Chloroethyl)ether     | 6.97  | 93  | 438  | 0.085  | ng | 98   |
| 9) Naphthalene                 | 10.32 | 128 | 1731 | 0.090  | ng | # 89 |
| 10) Hexachlorobutadiene        | 10.61 | 225 | 455  | 0.093  | ng | # 99 |
| 12) 2-Methylnaphthalene        | 11.95 | 142 | 1083 | 0.084  | ng | 95   |
| 16) Acenaphthylene             | 13.85 | 152 | 1431 | 0.084  | ng | 97   |
| 17) Acenaphthene               | 14.21 | 154 | 958  | 0.083  | ng | 99   |
| 18) Fluorene                   | 15.21 | 166 | 1191 | 0.082  | ng | 99   |
| 20) 4,6-Dinitro-2-methylphenol | 15.36 | 198 | 43   | 0.059  | ng | # 14 |
| 21) 4-Bromophenyl-phenylether  | 16.11 | 248 | 304  | 0.068  | ng | 99   |
| 22) Hexachlorobenzene          | 16.20 | 284 | 446  | 0.084  | ng | 95   |
| 23) Atrazine                   | 16.40 | 200 | 309  | 0.097  | ng | # 75 |
| 24) Pentachlorophenol          | 16.57 | 266 | 283  | 0.198  | ng | 88   |
| 25) Phenanthrene               | 16.93 | 178 | 1799 | 0.082  | ng | 99   |
| 26) Anthracene                 | 17.04 | 178 | 1454 | 0.080  | ng | 99   |
| 28) Fluoranthene               | 18.97 | 202 | 2094 | 0.085  | ng | 99   |
| 30) Pyrene                     | 19.33 | 202 | 2049 | 0.096  | ng | 99   |
| 32) Benzo(a)anthracene         | 21.15 | 228 | 2059 | 0.108  | ng | 92   |
| 33) Chrysene                   | 21.15 | 228 | 2051 | 0.093  | ng | 96   |
| 34) Bis(2-ethylhexyl)phthalate | 21.05 | 149 | 1062 | 0.137  | ng | # 97 |
| 35) Indeno(1,2,3-cd)pyrene     | 25.36 | 276 | 1916 | 0.084  | ng | # 86 |
| 37) Benzo(b)fluoranthene       | 22.62 | 252 | 1993 | 0.086  | ng | # 64 |
| 38) Benzo(k)fluoranthene       | 22.67 | 252 | 2158 | 0.087  | ng | # 62 |
| 39) Benzo(a)pyrene             | 23.16 | 252 | 1583 | 0.079  | ng | # 45 |
| 40) Dibenzo(a,h)anthracene     | 25.38 | 278 | 1482 | 0.072  | ng | # 50 |
| 41) Benzo(g,h,i)perylene       | 25.99 | 276 | 1888 | 0.084  | ng | # 84 |

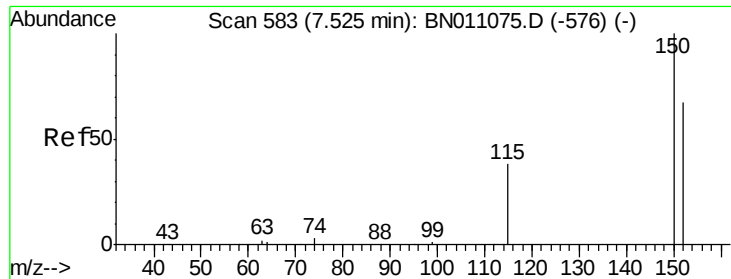
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
BNA\_N  
Client Sampled :  
MDL-SOIL-01

Quant Time: Jul 02 14:29:08 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA N\METHODS\8270-SIM-BN063020.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jun 30 14:12:13 2020  
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.52 min Scan# 583

Delta R.T. 0.00 min

Lab File: BN011084.D

Acq: 02 Jul 2020 13:58

Instrument :

BNA\_N

ClientSampleId :

MDL-SOIL-01

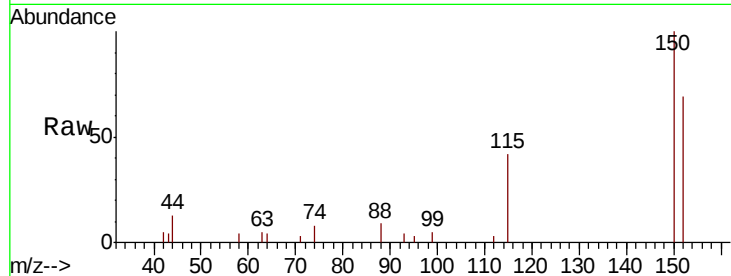
Tot Ion:152 Resp: 1990

Ion Ratio Lower Upper

152 100

150 143.9 117.4 176.0

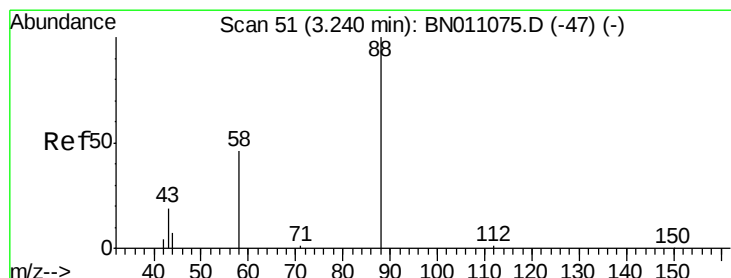
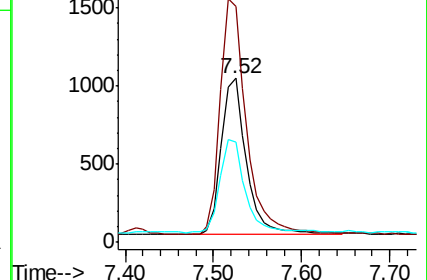
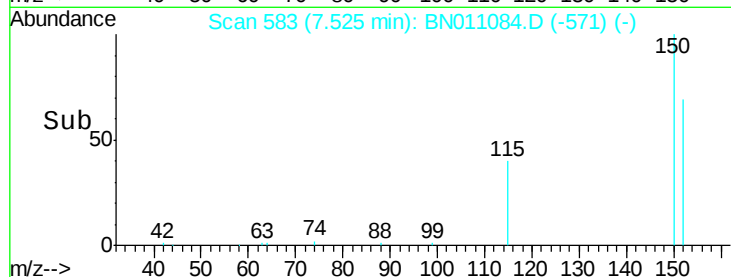
115 60.9 47.9 71.9



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



#2

1,4-Dioxane

Concen: 0.082 ng

RT: 3.24 min Scan# 51

Delta R.T. 0.00 min

Lab File: BN011084.D

Acq: 02 Jul 2020 13:58

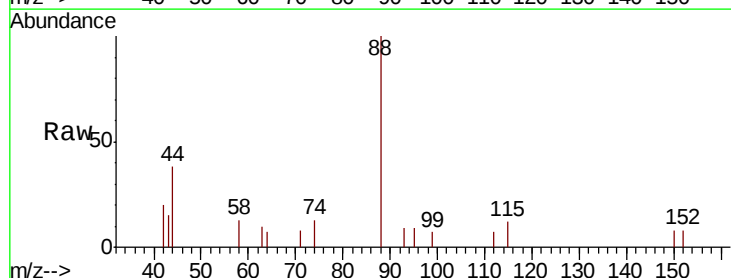
Tgt Ion: 88 Resp: 229

Ion Ratio Lower Upper

88 100

58 49.8 38.6 57.8

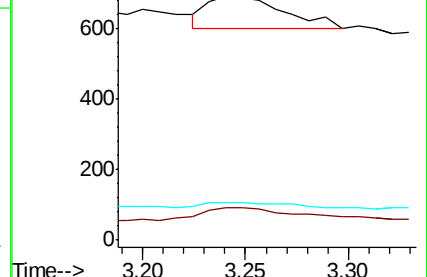
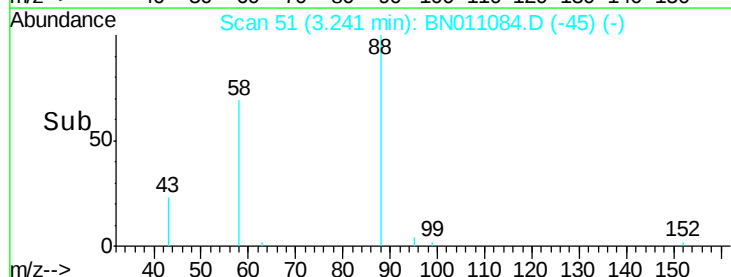
43 18.8 15.4 23.0

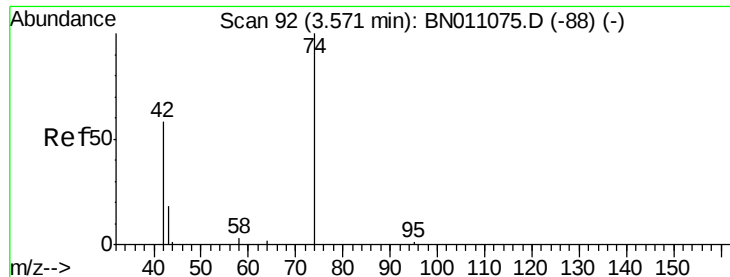


Abundance Ion 88.00 (87.70 to 88.70): BNC

Ion 58.00 (57.70 to 58.70): BNC

Ion 43.00 (42.70 to 43.70): BNC



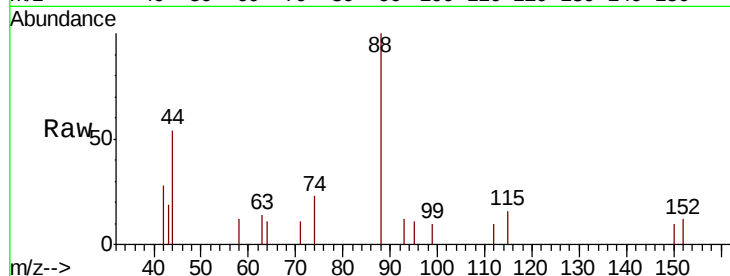


#3

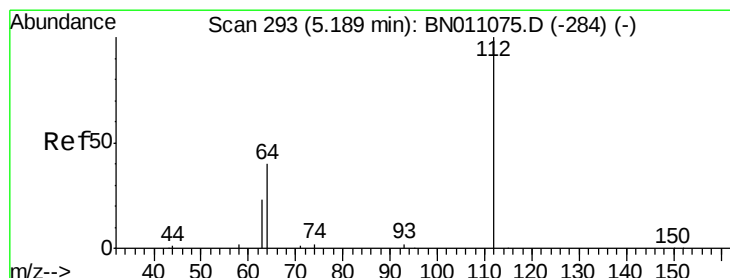
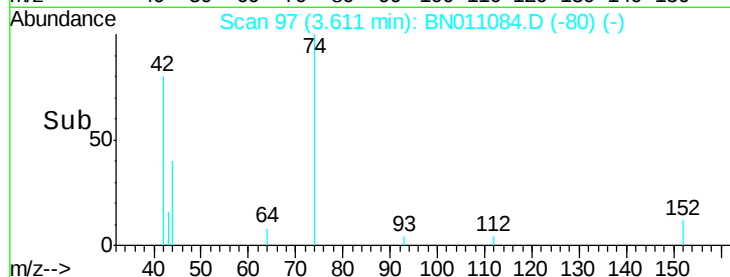
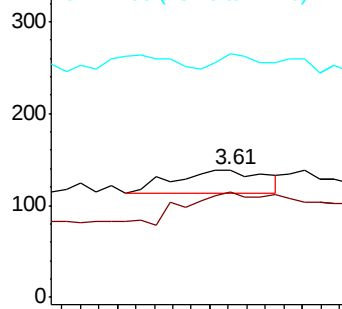
n-Nitrosodimethylamine  
 Concen: 0.062 ng  
 RT: 3.61 min Scan# 97  
 Delta R.T. 0.04 min  
 Lab File: BN011084.D  
 Acq: 02 Jul 2020 13:58

Instrument :  
 BNA\_N  
 ClientSampleId :  
 MDL-SOIL-01

Tot Ion: 42 Resp: 88  
 Ion Ratio Lower Upper  
 42 100  
 74 171.6 142.5 213.7  
 44 27.3 0.0 0.0#



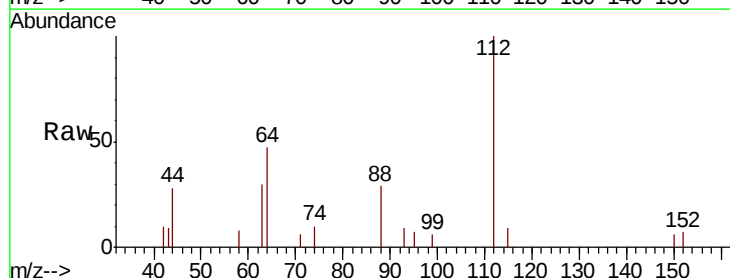
Abundance Ion 42.00 (41.70 to 42.70): BN0  
 Ion 74.00 (73.70 to 74.70): BN0  
 Ion 44.00 (43.70 to 44.70): BN0



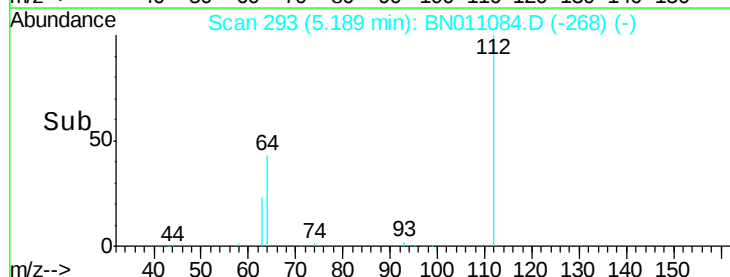
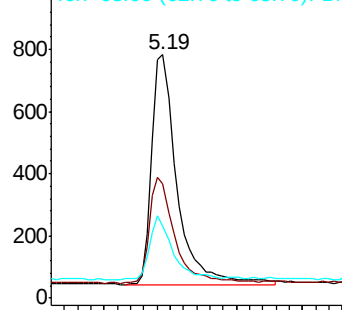
#4

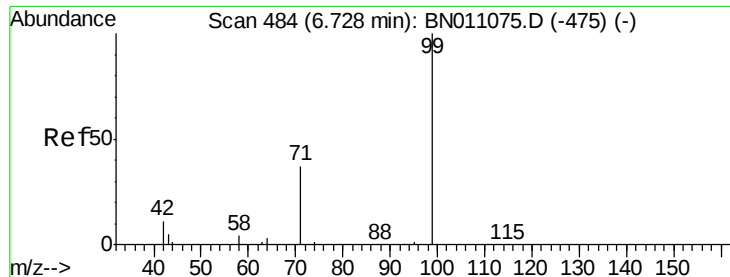
2-Fluorophenol  
 Concen: 0.395 ng  
 RT: 5.19 min Scan# 293  
 Delta R.T. 0.00 min  
 Lab File: BN011084.D  
 Acq: 02 Jul 2020 13:58

Tgt Ion: 112 Resp: 1955  
 Ion Ratio Lower Upper  
 112 100  
 64 45.6 36.5 54.7  
 63 26.0 20.6 30.8



Abundance Ion 112.00 (111.70 to 112.70): E  
 Ion 64.00 (63.70 to 64.70): BN0  
 Ion 63.00 (62.70 to 63.70): BN0





#5

Phenol-d6

Concen: 0.353 ng

RT: 6.73 min Scan# 484

Delta R.T. 0.00 min

Lab File: BN011084.D

Acq: 02 Jul 2020 13:58

Instrument :

BNA\_N

ClientSampled :

MDL-SOIL-01

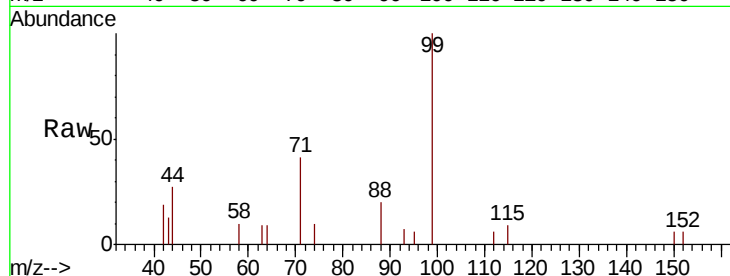
Tot Ion: 99 Resp: 2011

Ion Ratio Lower Upper

99 100

42 12.6 9.8 14.8

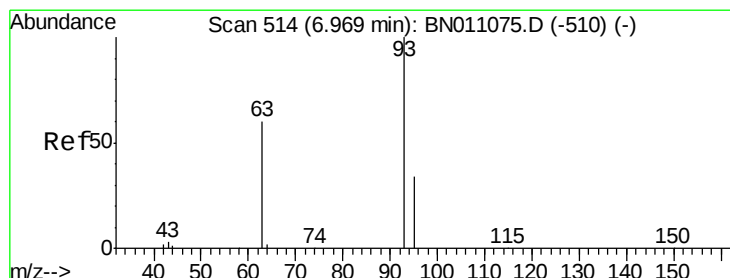
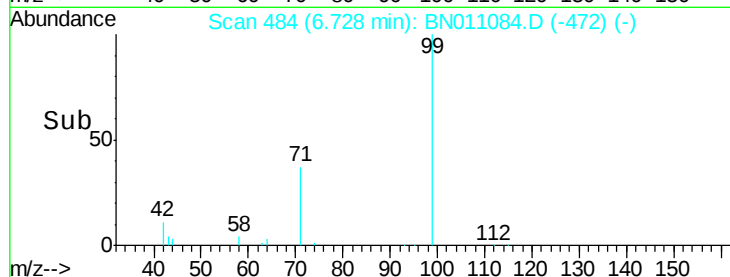
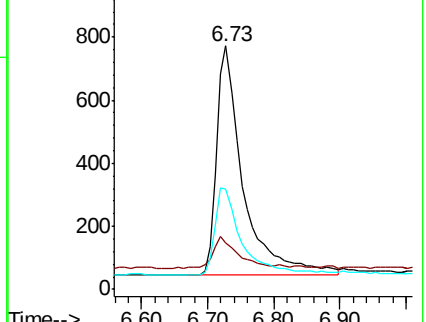
71 38.7 30.7 46.1



Abundance Ion 99.00 (98.70 to 99.70): BN011084.D (-472) (-)

Ion 42.00 (41.70 to 42.70): BN011084.D (-472) (-)

Ion 71.00 (70.70 to 71.70): BN011084.D (-472) (-)



#6

bis(2-Chloroethyl)ether

Concen: 0.085 ng

RT: 6.97 min Scan# 514

Delta R.T. 0.00 min

Lab File: BN011084.D

Acq: 02 Jul 2020 13:58

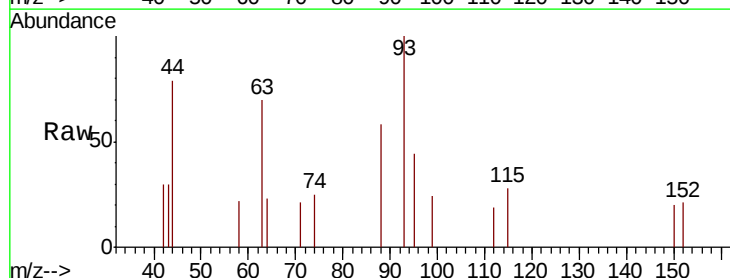
Tgt Ion: 93 Resp: 438

Ion Ratio Lower Upper

93 100

63 57.5 47.4 71.2

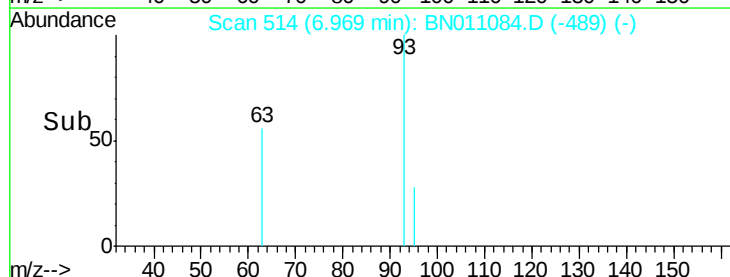
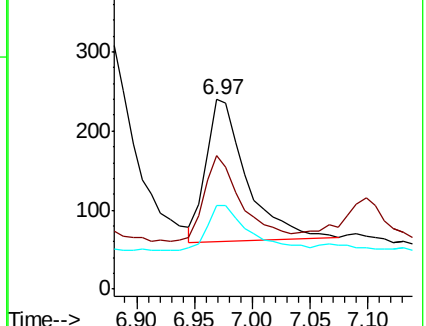
95 32.4 26.4 39.6

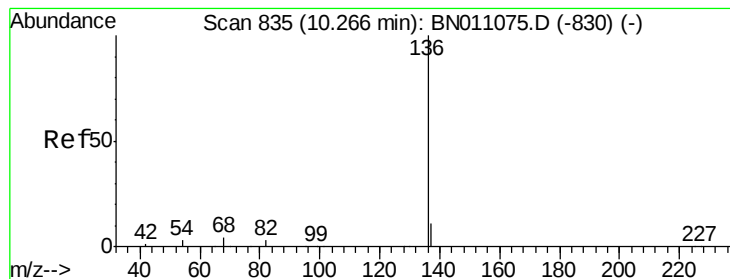


Abundance Ion 93.00 (92.70 to 93.70): BN011084.D (-489) (-)

Ion 63.00 (62.70 to 63.70): BN011084.D (-489) (-)

Ion 95.00 (94.70 to 95.70): BN011084.D (-489) (-)





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.27 min Scan# 835

Delta R.T. 0.00 min

Lab File: BN011084.D

Acq: 02 Jul 2020 13:58

Instrument :

BNA\_N

ClientSampleId :

MDL-SOIL-01

Tot Ion:136 Resp: 6449

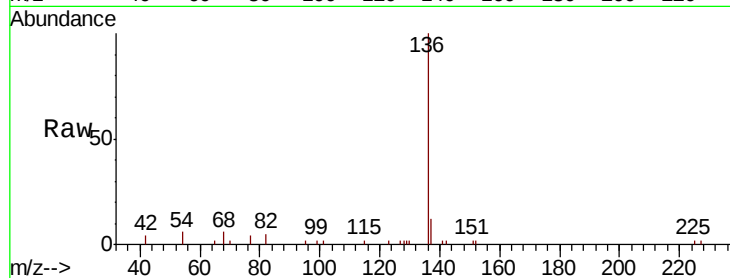
Ion Ratio Lower Upper

136 100

137 12.3 9.6 14.4

54 6.1 3.8 5.6#

68 5.7 4.3 6.5

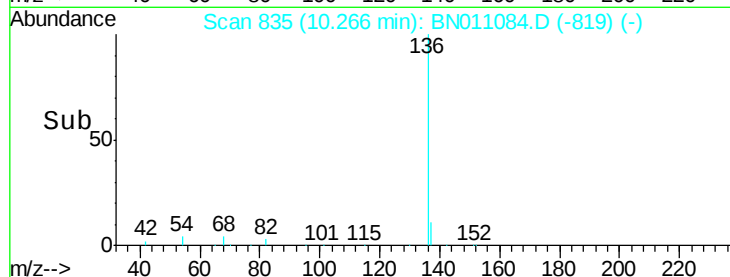


Abundance Ion 136.00 (135.70 to 136.70): E

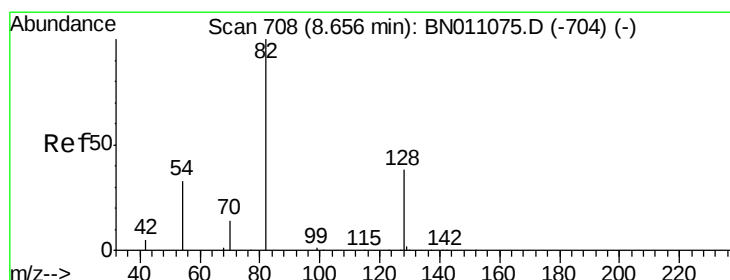
Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BNC

Ion 68.00 (67.70 to 68.70): BNC



Time-->



#8

Nitrobenzene-d5

Concen: 0.323 ng

RT: 8.67 min Scan# 709

Delta R.T. 0.01 min

Lab File: BN011084.D

Acq: 02 Jul 2020 13:58

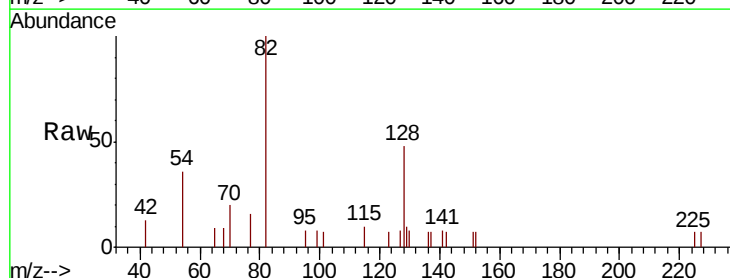
Tgt Ion: 82 Resp: 1769

Ion Ratio Lower Upper

82 100

128 48.3 34.2 51.2

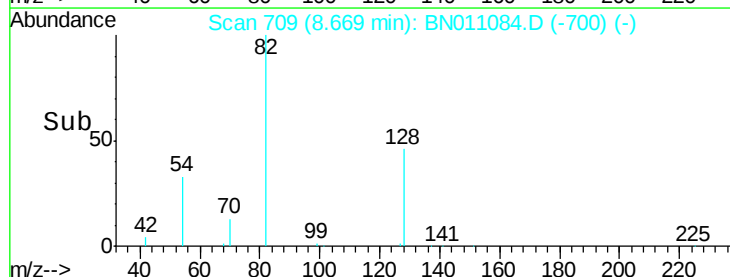
54 35.5 29.4 44.0



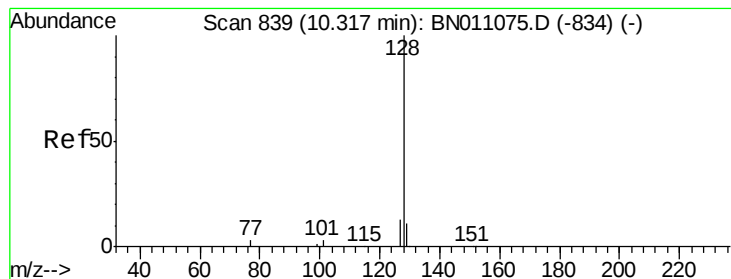
Abundance Ion 82.00 (81.70 to 82.70): BNC

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BNC



Time-->



#9

Naphthalene

Concen: 0.090 ng

RT: 10.32 min Scan# 839

Delta R.T. 0.00 min

Lab File: BN011084.D

Acq: 02 Jul 2020 13:58

Instrument :

BNA\_N

ClientSampleId :

MDL-SOIL-01

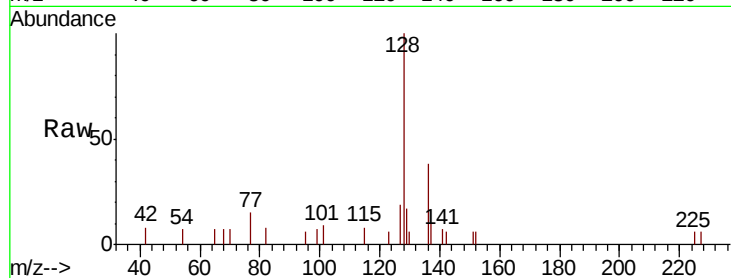
Tot Ion:128 Resp: 1731

Ion Ratio Lower Upper

128 100

129 17.1 9.8 14.8#

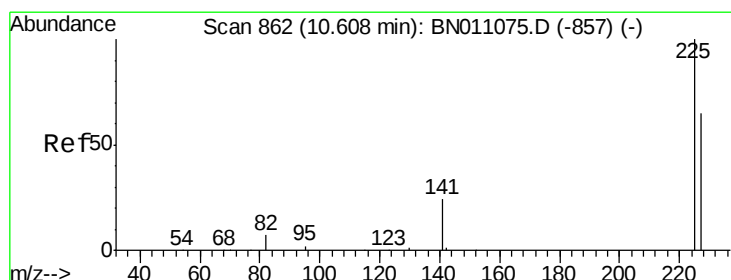
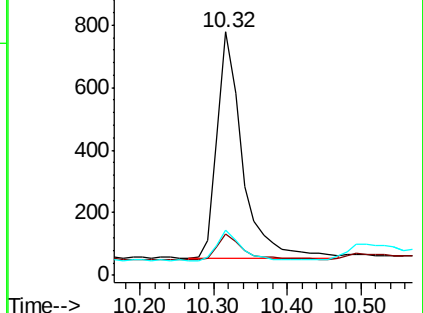
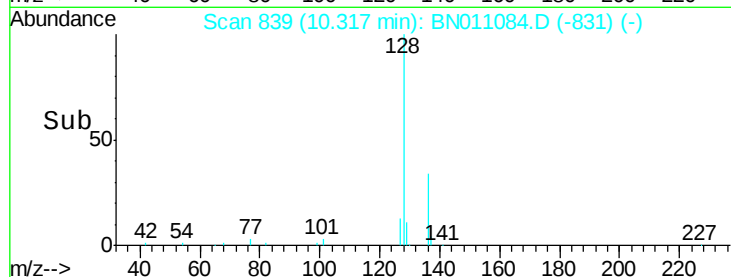
127 18.5 11.3 16.9#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#10

Hexachlorobutadiene

Concen: 0.093 ng

RT: 10.61 min Scan# 862

Delta R.T. 0.00 min

Lab File: BN011084.D

Acq: 02 Jul 2020 13:58

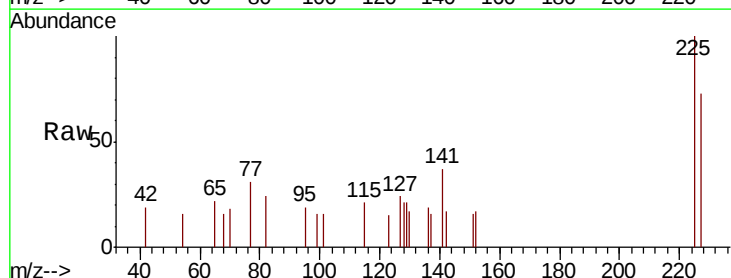
Tgt Ion:225 Resp: 455

Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

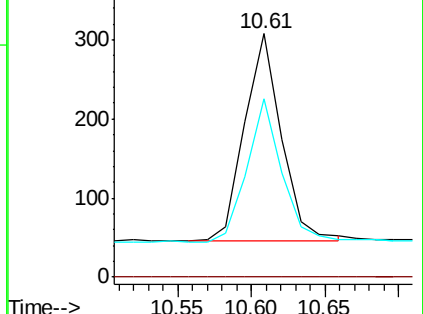
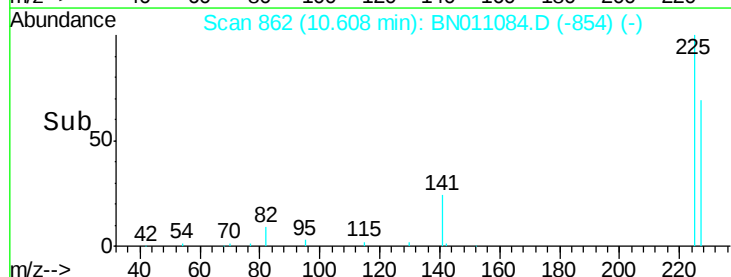
227 65.3 51.4 77.2

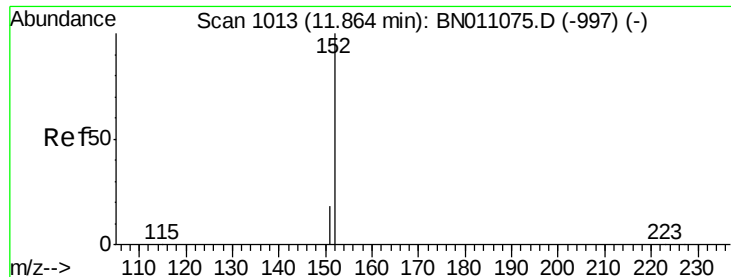


Abundance Ion 225.00 (224.70 to 225.70): E

Ion 223.00 (222.70 to 223.70): E

Ion 227.00 (226.70 to 227.70): E





#11

2-Methylnaphthalene-d10

Concen: 0.336 ng

RT: 11.87 min Scan# 1015

Delta R.T. 0.01 min

Lab File: BN011084.D

Acq: 02 Jul 2020 13:58

Instrument :

BNA\_N

ClientSampleId :

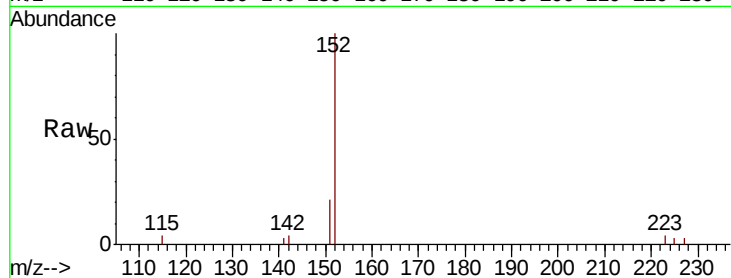
MDL-SOIL-01

Tot Ion:152 Resp: 3746

Ion Ratio Lower Upper

152 100

151 18.3 16.6 24.8



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

11.87

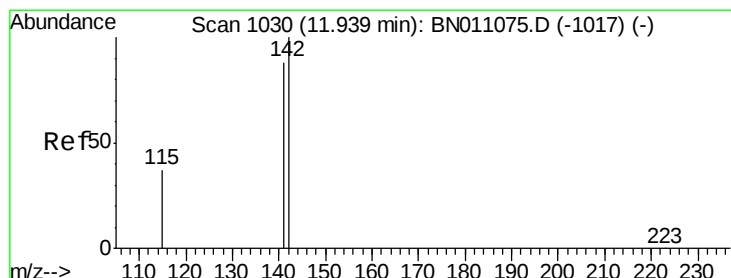
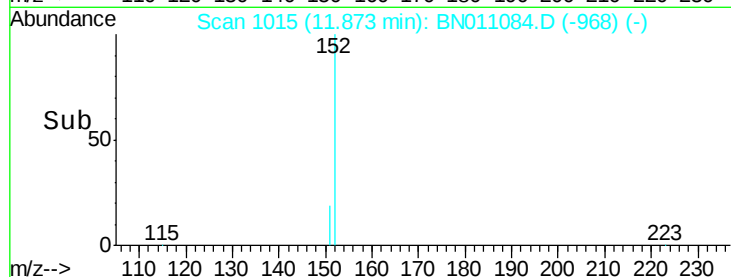
1500

1000

500

0

Time--> 11.80 12.00



#12

2-Methylnaphthalene

Concen: 0.084 ng

RT: 11.95 min Scan# 1032

Delta R.T. 0.01 min

Lab File: BN011084.D

Acq: 02 Jul 2020 13:58

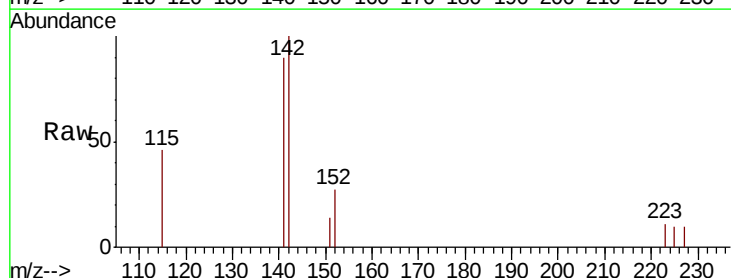
Tgt Ion:142 Resp: 1083

Ion Ratio Lower Upper

142 100

141 89.8 70.3 105.5

115 46.1 31.2 46.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

11.95

600

500

400

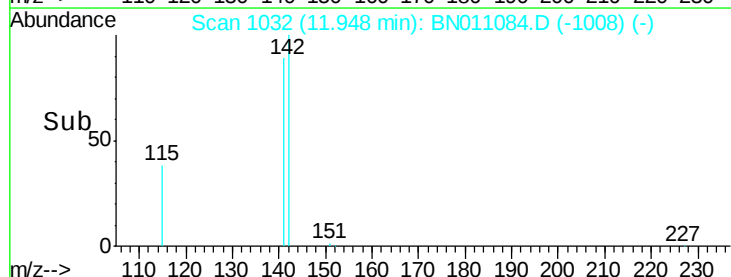
300

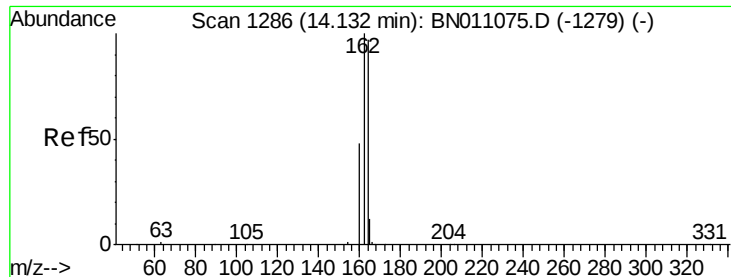
200

100

0

Time--> 11.90 12.00 12.10





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.14 min Scan# 1287

Delta R.T. 0.01 min

Lab File: BN011084.D

Acq: 02 Jul 2020 13:58

Instrument :

BNA\_N

ClientSampleId :

MDL-SOIL-01

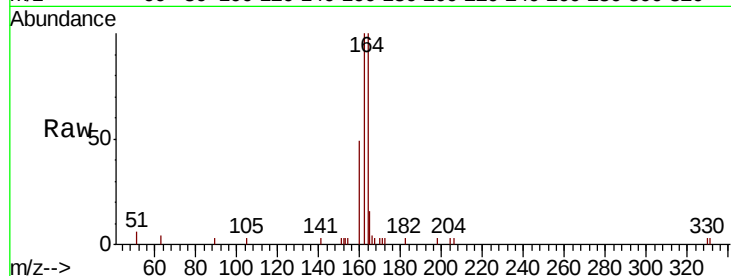
Tot Ion:164 Resp: 3414

Ion Ratio Lower Upper

164 100

162 99.8 82.3 123.5

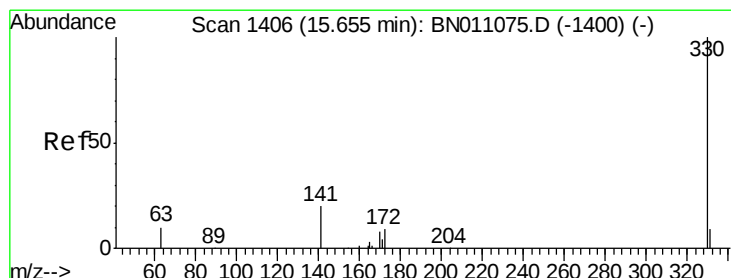
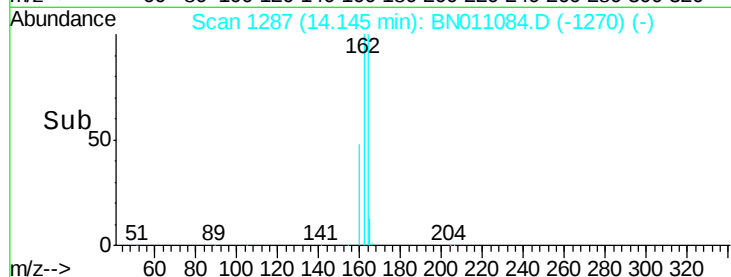
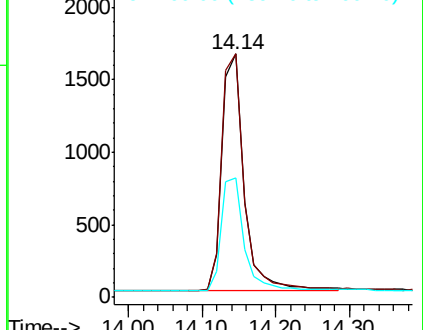
160 49.1 40.6 61.0



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14

2,4,6-Tribromophenol

Concen: 0.326 ng

RT: 15.65 min Scan# 1406

Delta R.T. 0.00 min

Lab File: BN011084.D

Acq: 02 Jul 2020 13:58

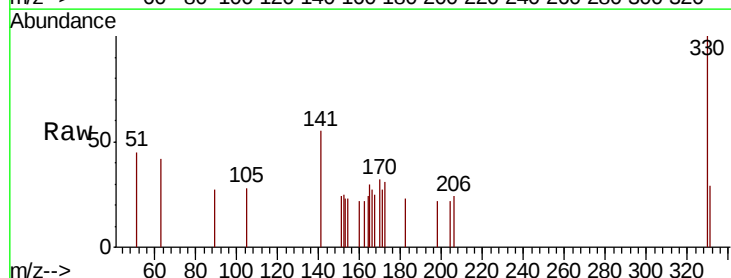
Tgt Ion:330 Resp: 467

Ion Ratio Lower Upper

330 100

332 0.0 0.0 0.0

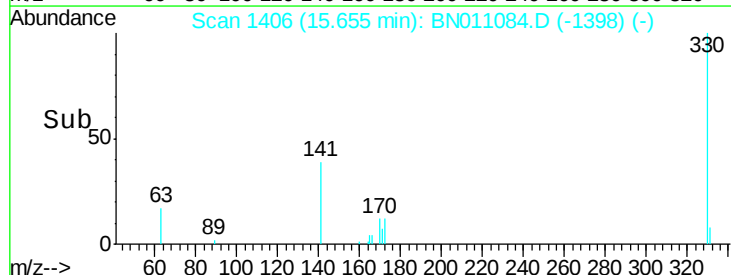
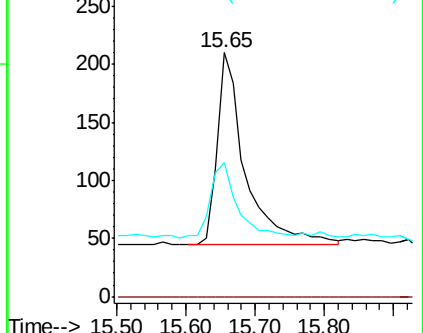
141 39.2 32.6 49.0

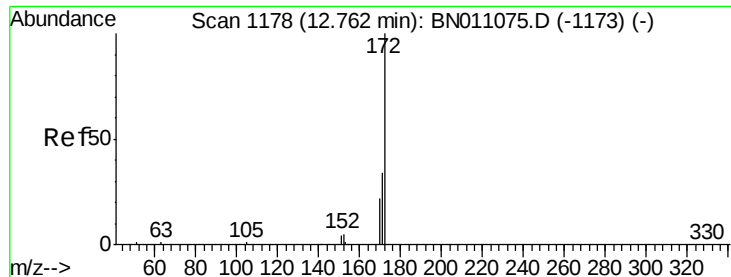


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

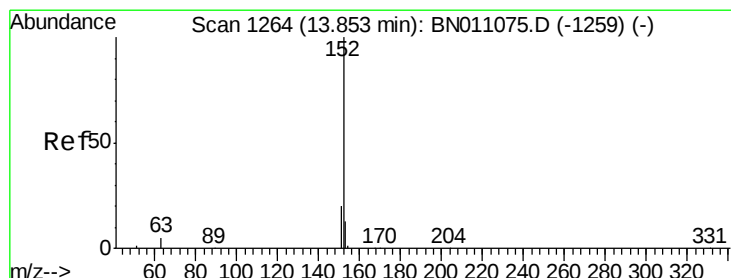
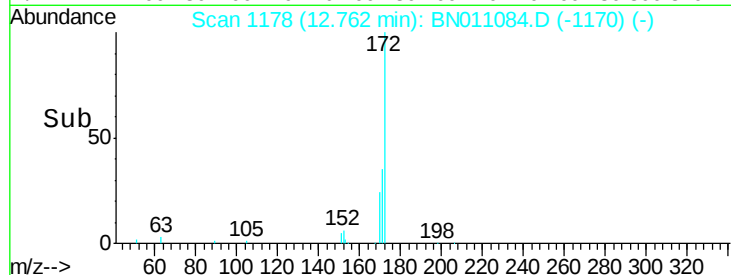
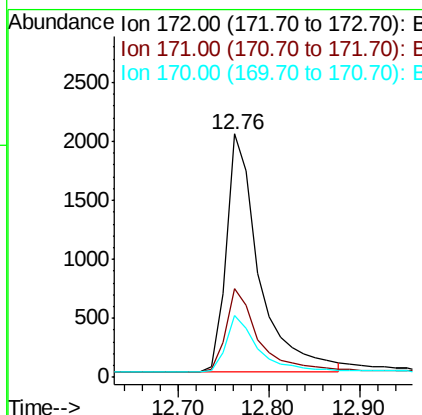
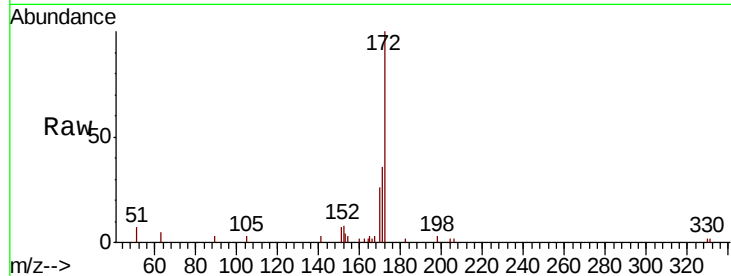




#15  
2-Fluorobiphenyl  
Concen: 0.317 ng  
RT: 12.76 min Scan# 1178  
Delta R.T. 0.00 min  
Lab File: BN011084.D  
Acq: 02 Jul 2020 13:58

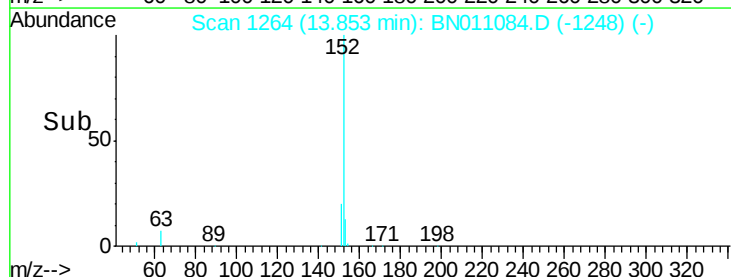
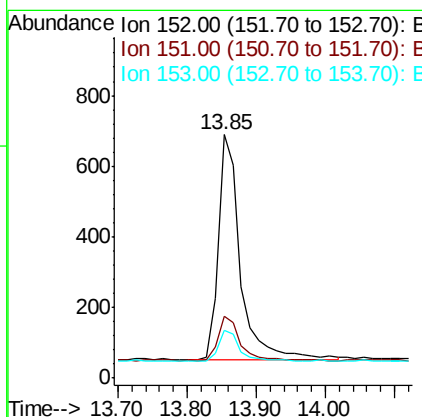
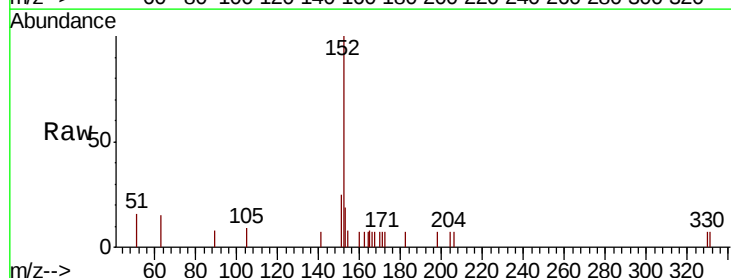
Instrument :  
BNA\_N  
ClientSampled :  
MDL-SOIL-01

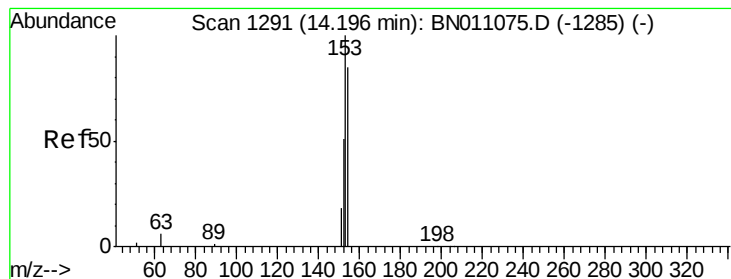
Tot Ion:172 Resp: 5100  
Ion Ratio Lower Upper  
172 100  
171 36.2 27.9 41.9  
170 25.6 18.7 28.1



#16  
Acenaphthylene  
Concen: 0.084 ng  
RT: 13.85 min Scan# 1264  
Delta R.T. 0.00 min  
Lab File: BN011084.D  
Acq: 02 Jul 2020 13:58

Tgt Ion:152 Resp: 1431  
Ion Ratio Lower Upper  
152 100  
151 21.5 15.8 23.8  
153 12.6 10.8 16.2





#17

Acenaphthene

Concen: 0.083 ng

RT: 14.21 min Scan# 1292

Delta R.T. 0.01 min

Lab File: BN011084.D

Acq: 02 Jul 2020 13:58

Instrument :

BNA\_N

ClientSampleId :

MDL-SOIL-01

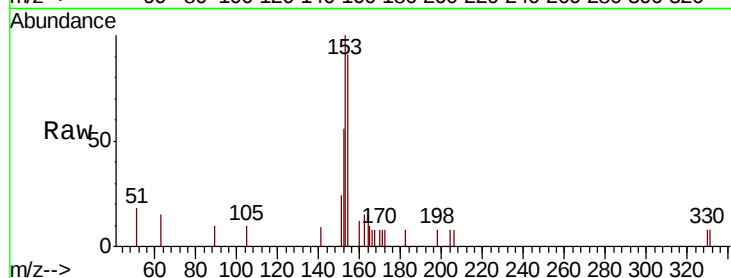
Tot Ion:154 Resp: 958

Ion Ratio Lower Upper

154 100

153 116.0 91.7 137.5

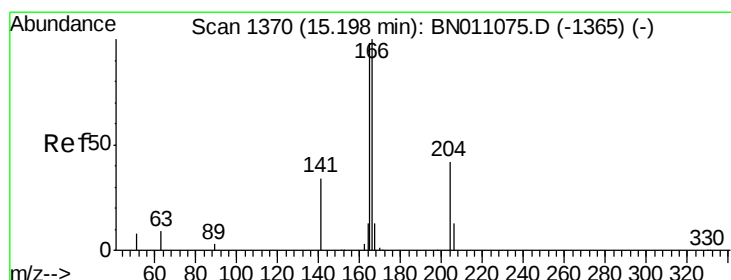
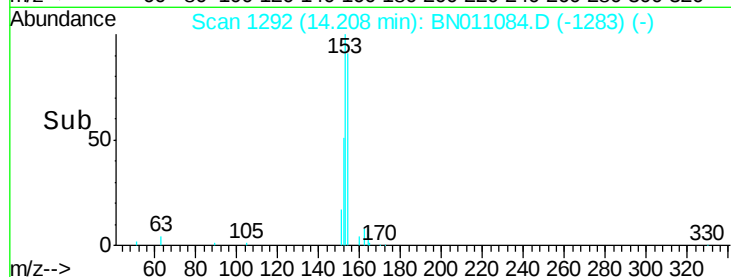
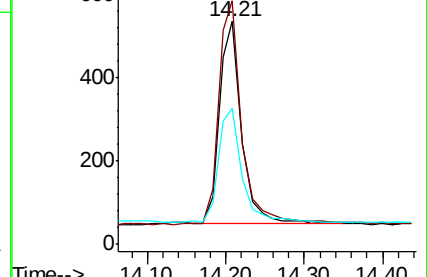
152 59.5 46.8 70.2



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#18

Fluorene

Concen: 0.082 ng

RT: 15.21 min Scan# 1371

Delta R.T. 0.01 min

Lab File: BN011084.D

Acq: 02 Jul 2020 13:58

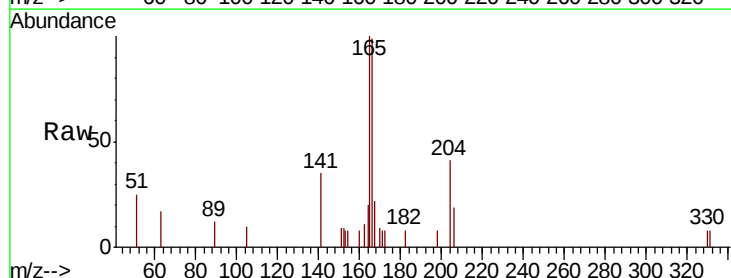
Tgt Ion:166 Resp: 1191

Ion Ratio Lower Upper

166 100

165 98.0 78.9 118.3

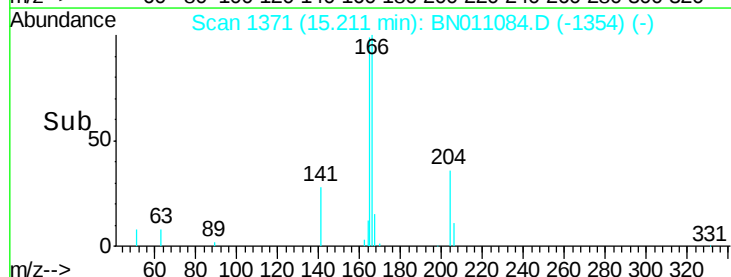
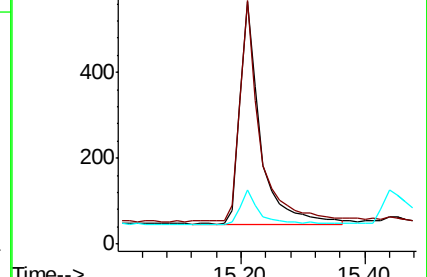
167 15.4 10.9 16.3

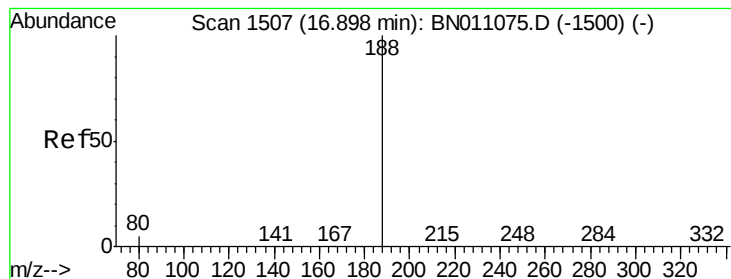


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.90 min Scan# 1507

Delta R.T. 0.00 min

Lab File: BN011084.D

Acq: 02 Jul 2020 13:58

Instrument :

BNA\_N

ClientSampleId :

MDL-SOIL-01

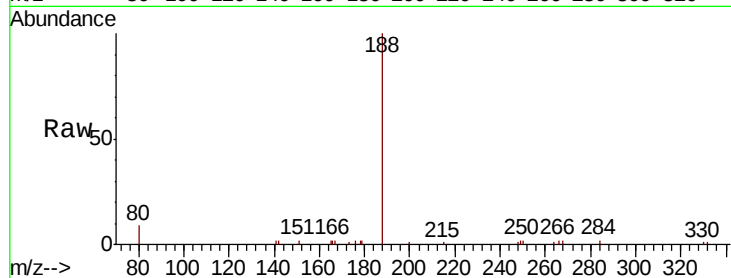
Tot Ion:188 Resp: 6770

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.8 5.3 7.9#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BNC

Ion 80.00 (79.70 to 80.70): BNC

16.90

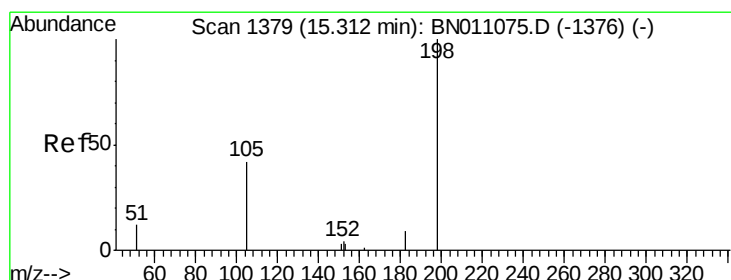
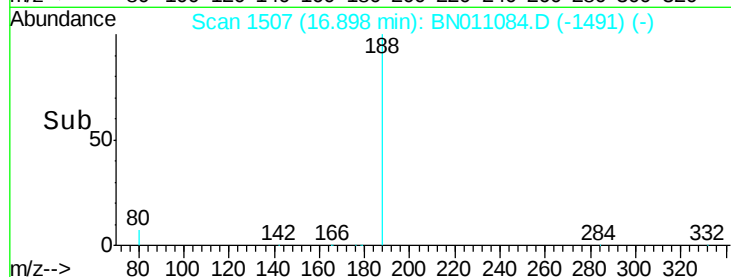
3000

2000

1000

0

Time-->



#20

4,6-Dinitro-2-methylphenol

Concen: 0.059 ng

RT: 15.36 min Scan# 1383

Delta R.T. 0.05 min

Lab File: BN011084.D

Acq: 02 Jul 2020 13:58

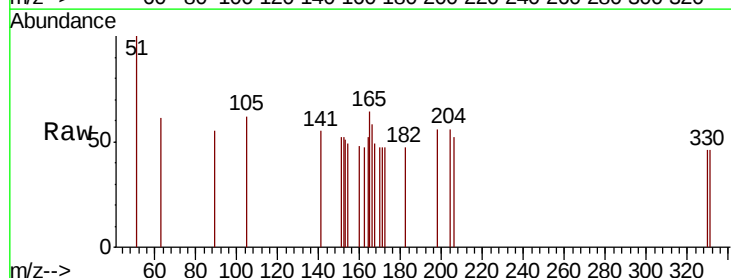
Tgt Ion:198 Resp: 43

Ion Ratio Lower Upper

198 100

51 179.6 58.2 87.4#

105 111.1 59.0 88.4#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BNC

Ion 105.00 (104.70 to 105.70): E

15.36

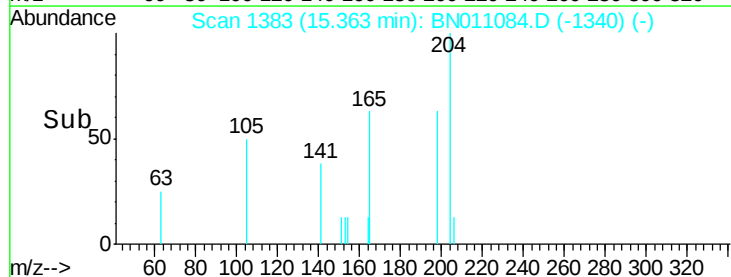
150

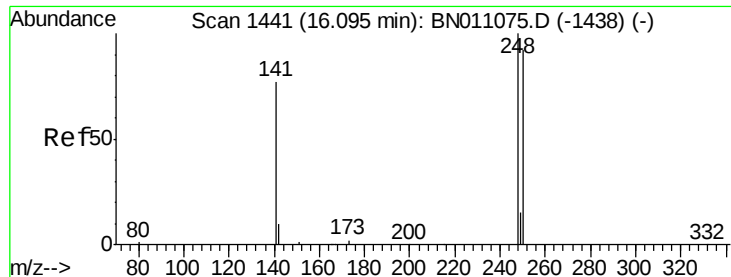
100

50

0

Time-->

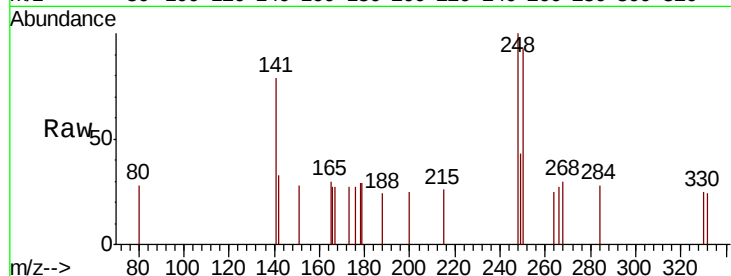




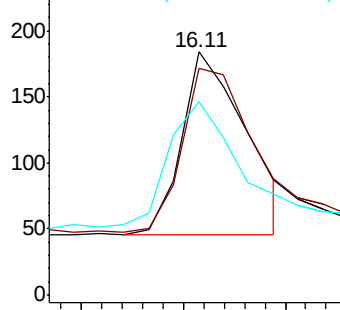
#21  
4-Bromophenyl-phenylether  
Concen: 0.068 ng  
RT: 16.11 min Scan# 1442  
Delta R.T. 0.01 min  
Lab File: BN011084.D  
Acq: 02 Jul 2020 13:58

Instrument :  
BNA\_N  
ClientSampled :  
MDL-SOIL-01

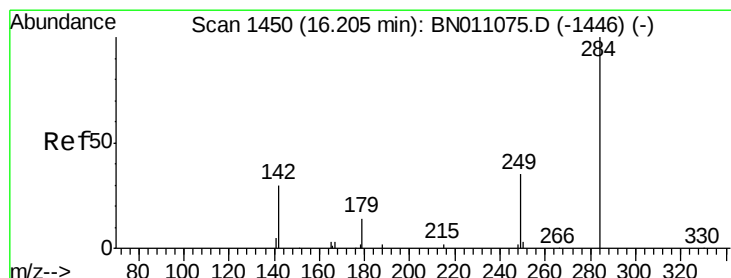
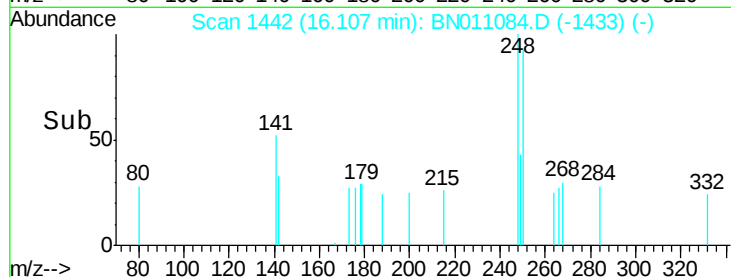
Tot Ion:248 Resp: 304  
Ion Ratio Lower Upper  
248 100  
250 93.5 73.8 110.8  
141 79.3 63.1 94.7



Abundance Ion 248.00 (247.70 to 248.70): E  
Ion 250.00 (249.70 to 250.70): E  
Ion 141.00 (140.70 to 141.70): E

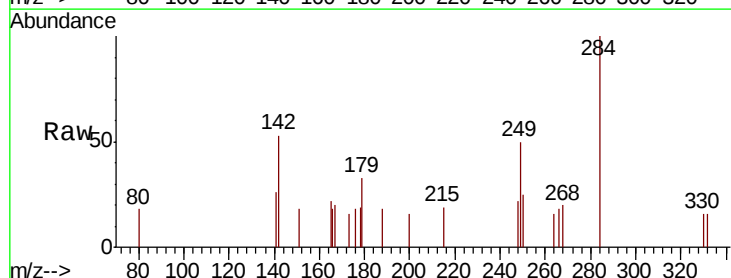


Time--> 16.05 16.10 16.15

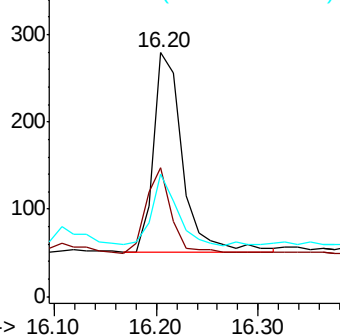


#22  
Hexachlorobenzene  
Concen: 0.084 ng  
RT: 16.20 min Scan# 1450  
Delta R.T. 0.00 min  
Lab File: BN011084.D  
Acq: 02 Jul 2020 13:58

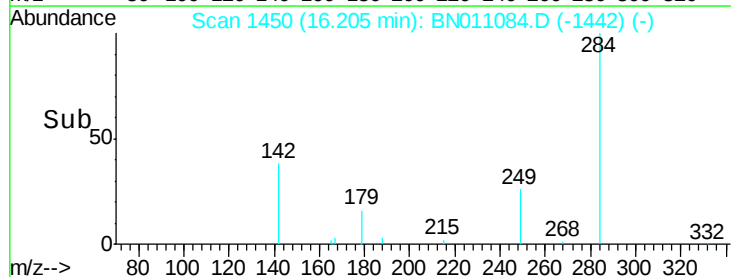
Tgt Ion:284 Resp: 446  
Ion Ratio Lower Upper  
284 100  
142 38.6 33.3 49.9  
249 31.2 27.4 41.2

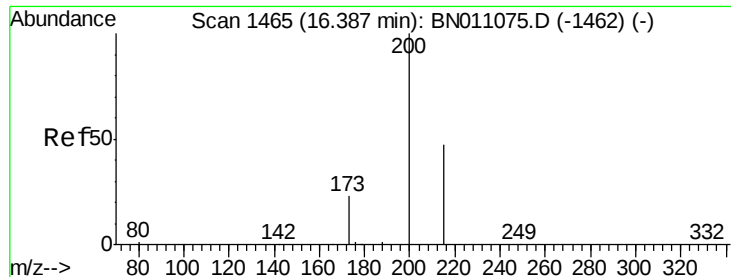


Abundance Ion 283.80 (283.50 to 284.50): E  
Ion 142.00 (141.70 to 142.70): E  
Ion 249.00 (248.70 to 249.70): E



Time--> 16.10 16.20 16.30





#23

Atrazine

Concen: 0.097 ng

RT: 16.40 min Scan# 1466

Delta R.T. 0.01 min

Lab File: BN011084.D

Acq: 02 Jul 2020 13:58

Instrument :

BNA\_N

ClientSampled :

MDL-SOIL-01

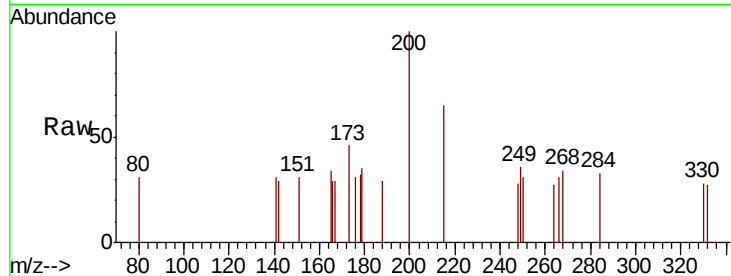
Tot Ion:200 Resp: 309

Ion Ratio Lower Upper

200 100

173 45.5 22.8 34.2#

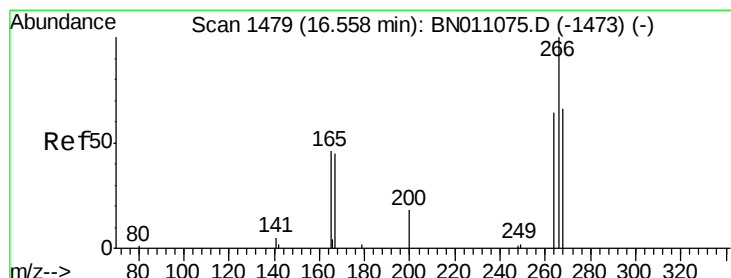
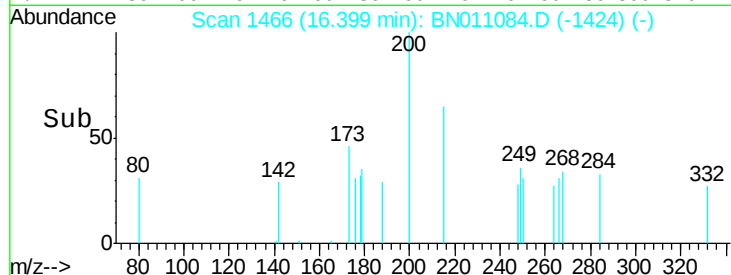
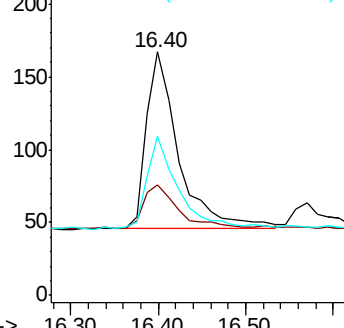
215 65.3 40.7 61.1#



Abundance Ion 200.00 (199.70 to 200.70): E

Ion 173.00 (172.70 to 173.70): E

Ion 215.00 (214.70 to 215.70): E



#24

Pentachlorophenol

Concen: 0.198 ng

RT: 16.57 min Scan# 1480

Delta R.T. 0.01 min

Lab File: BN011084.D

Acq: 02 Jul 2020 13:58

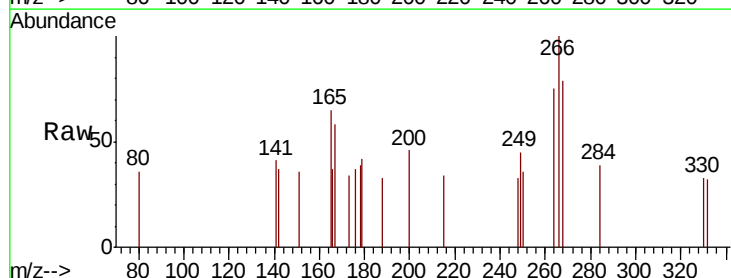
Tgt Ion:266 Resp: 283

Ion Ratio Lower Upper

266 100

264 64.0 47.4 71.0

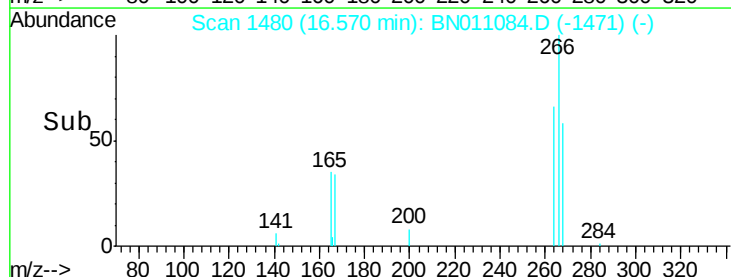
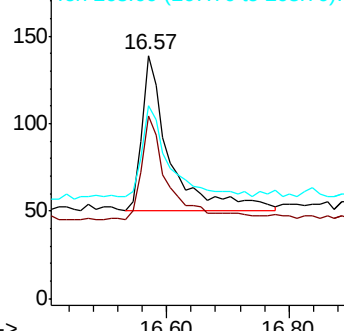
268 55.1 55.0 82.4

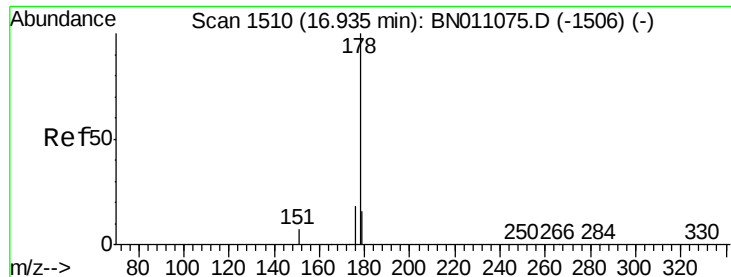


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#25

Phenanthrene

Concen: 0.082 ng

RT: 16.93 min Scan# 1510

Delta R.T. 0.00 min

Lab File: BN011084.D

Acq: 02 Jul 2020 13:58

Instrument :

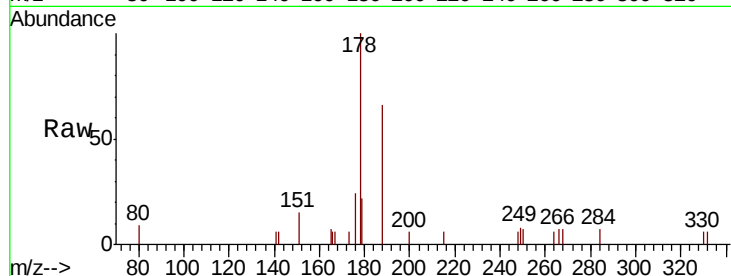
BNA\_N

ClientSampleId :

MDL-SOIL-01

Tot Ion:178 Resp: 1799

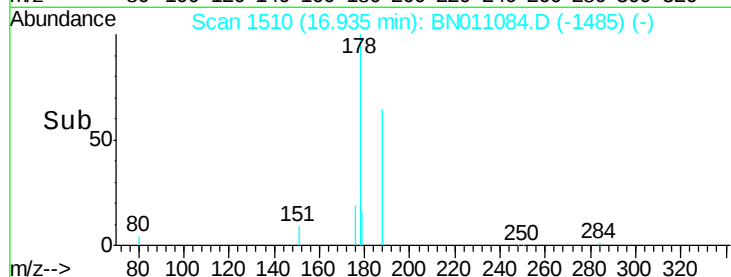
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 19.3  | 15.0  | 22.6  |
| 179 | 16.3  | 12.5  | 18.7  |



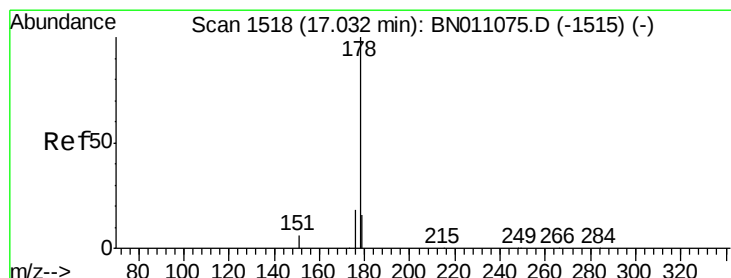
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



Time-->



#26

Anthracene

Concen: 0.080 ng

RT: 17.04 min Scan# 1519

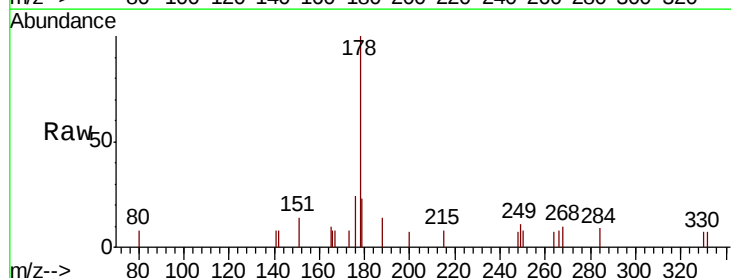
Delta R.T. 0.01 min

Lab File: BN011084.D

Acq: 02 Jul 2020 13:58

Tgt Ion:178 Resp: 1454

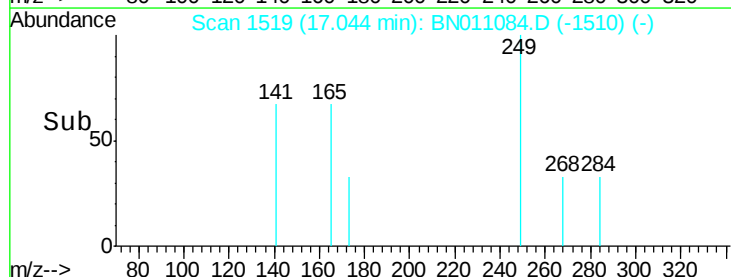
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 18.0  | 14.2  | 21.4  |
| 179 | 16.3  | 12.2  | 18.2  |



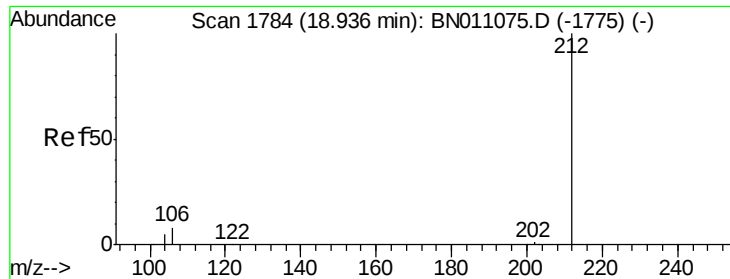
Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



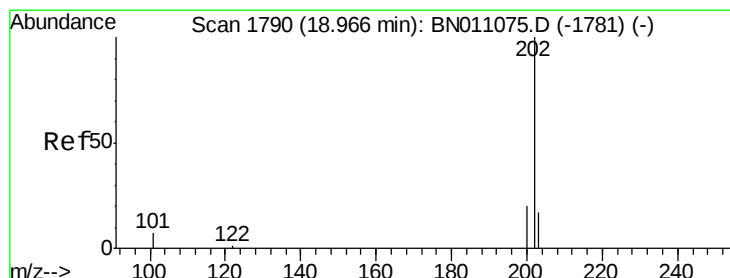
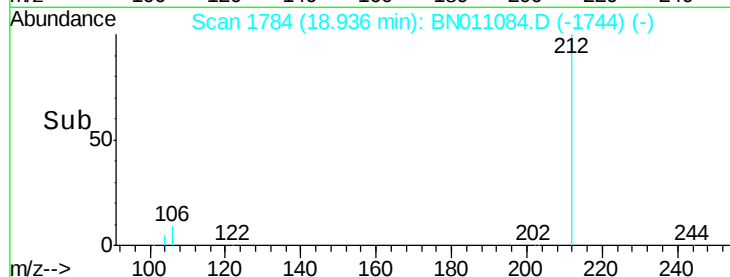
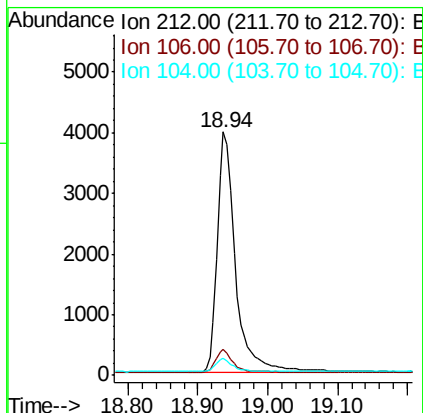
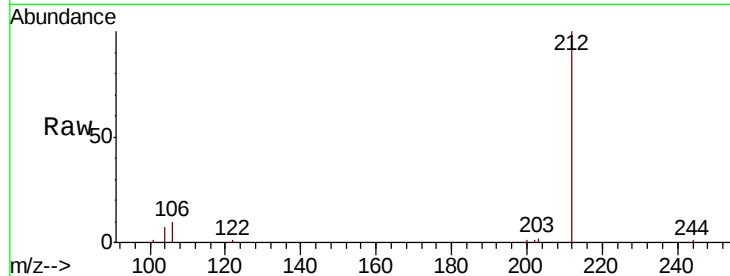
Time-->



#27  
 Fluoranthene-d10  
 Concen: 0.354 ng  
 RT: 18.94 min Scan# 1784  
 Delta R.T. 0.00 min  
 Lab File: BN011084.D  
 Acq: 02 Jul 2020 13:58

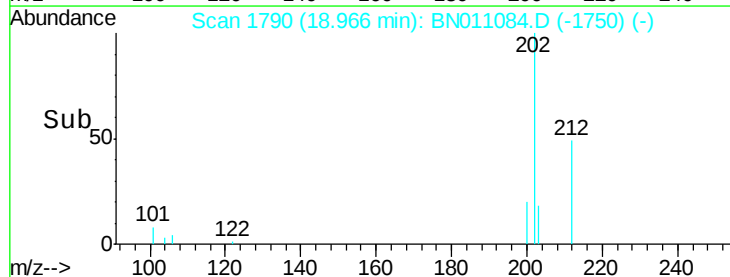
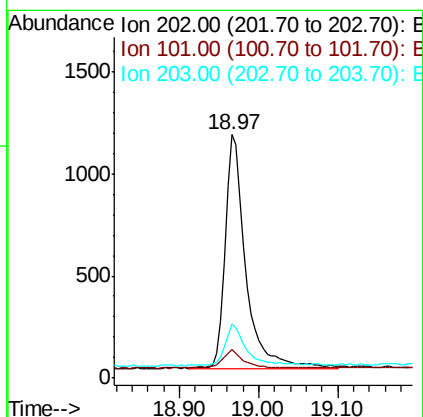
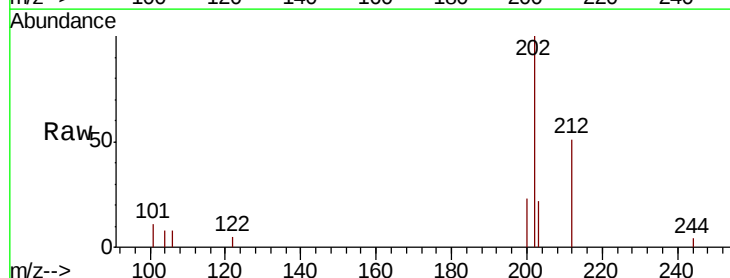
Instrument :  
 BNA\_N  
 ClientSampleId :  
 MDL-SOIL-01

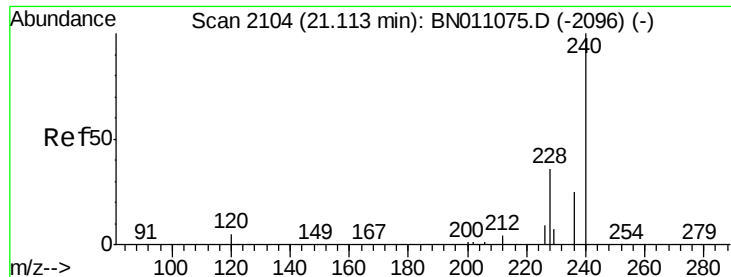
Tot Ion:212 Resp: 7253  
 Ion Ratio Lower Upper  
 212 100  
 106 9.1 7.1 10.7  
 104 4.7 4.2 6.4



#28  
 Fluoranthene  
 Concen: 0.085 ng  
 RT: 18.97 min Scan# 1790  
 Delta R.T. 0.00 min  
 Lab File: BN011084.D  
 Acq: 02 Jul 2020 13:58

Tgt Ion:202 Resp: 2094  
 Ion Ratio Lower Upper  
 202 100  
 101 8.5 6.3 9.5  
 203 17.1 13.5 20.3

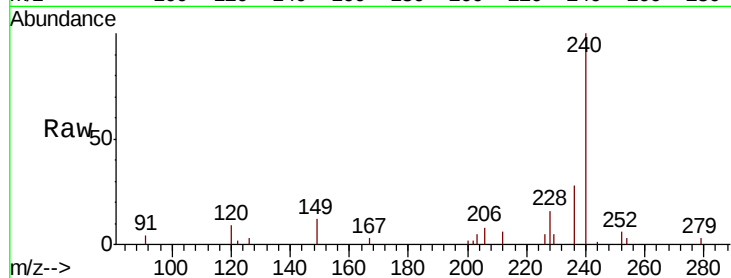




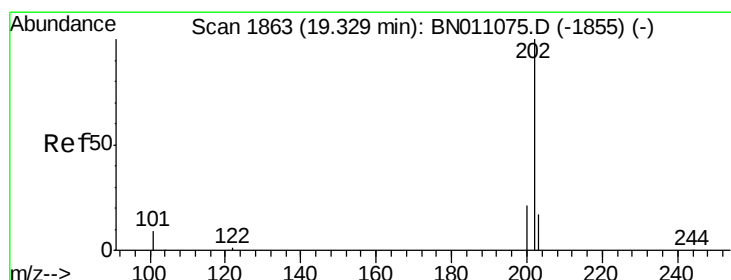
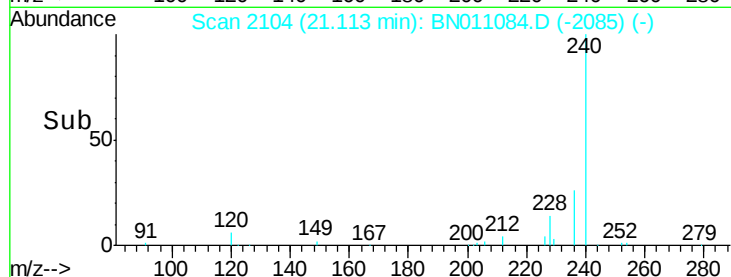
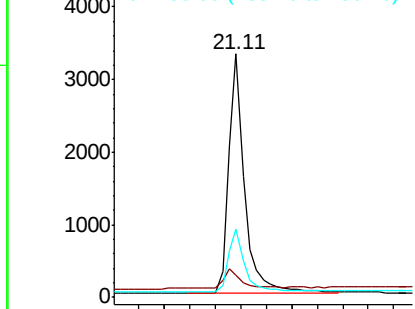
#29  
 Chrysene-d12  
 Concen: 0.400 ng  
 RT: 21.11 min Scan# 2104  
 Delta R.T. 0.00 min  
 Lab File: BN011084.D  
 Acq: 02 Jul 2020 13:58

Instrument :  
 BNA\_N  
 ClientSampleId :  
 MDL-SOIL-01

Tot Ion:240 Resp: 5723  
 Ion Ratio Lower Upper  
 240 100  
 120 9.1 6.5 9.7  
 236 28.1 21.9 32.9

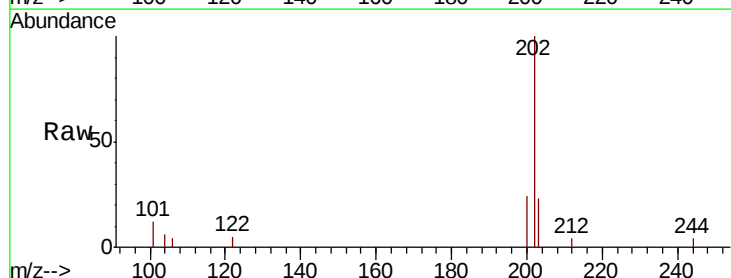


Abundance Ion 240.00 (239.70 to 240.70): E  
 Ion 120.00 (119.70 to 120.70): E  
 Ion 236.00 (235.70 to 236.70): E

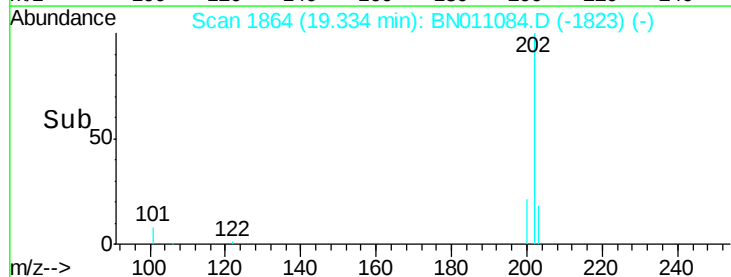
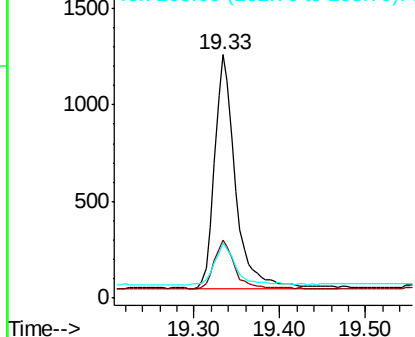


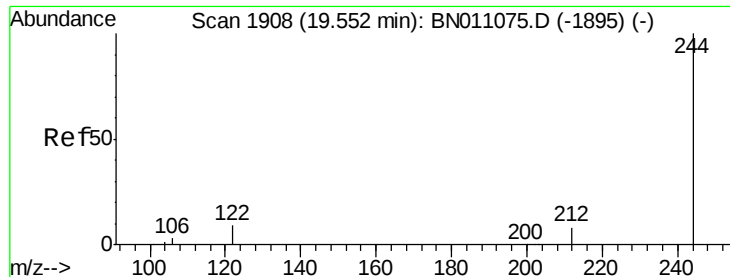
#30  
 Pyrene  
 Concen: 0.096 ng  
 RT: 19.33 min Scan# 1864  
 Delta R.T. 0.00 min  
 Lab File: BN011084.D  
 Acq: 02 Jul 2020 13:58

Tgt Ion:202 Resp: 2049  
 Ion Ratio Lower Upper  
 202 100  
 200 20.3 16.6 25.0  
 203 18.1 14.2 21.4



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





#31

Terphenyl-d14

Concen: 0.378 ng

RT: 19.56 min Scan# 1909

Delta R.T. 0.00 min

Lab File: BN011084.D

Acq: 02 Jul 2020 13:58

Instrument :

BNA\_N

ClientSampleId :

MDL-SOIL-01

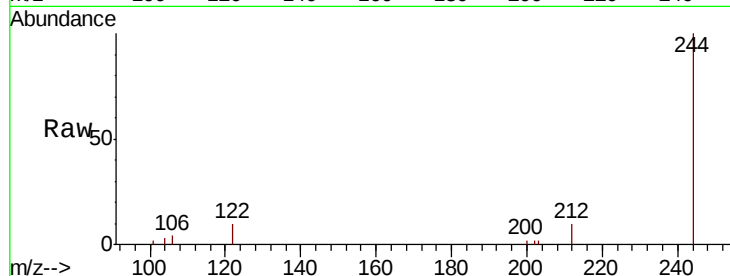
Tot Ion:244 Resp: 5628

Ion Ratio Lower Upper

244 100

212 9.8 7.5 11.3

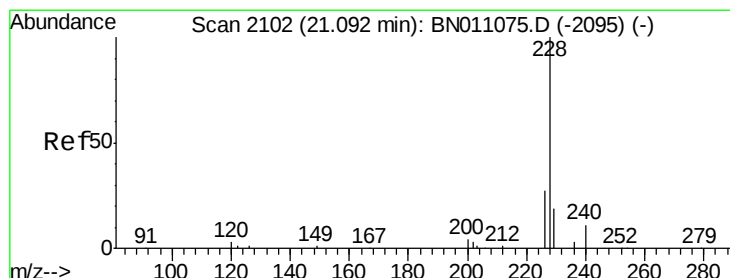
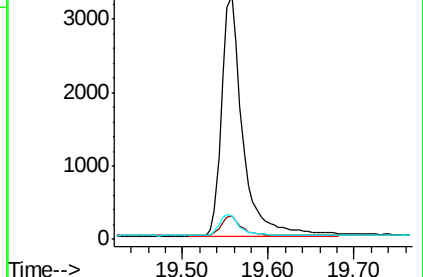
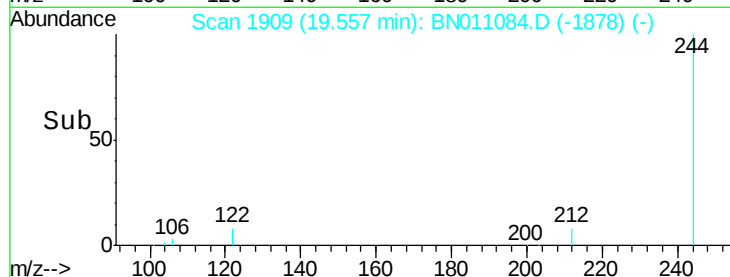
122 9.7 8.2 12.4



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



#32

Benzo(a)anthracene

Concen: 0.108 ng

RT: 21.15 min Scan# 2107

Delta R.T. 0.05 min

Lab File: BN011084.D

Acq: 02 Jul 2020 13:58

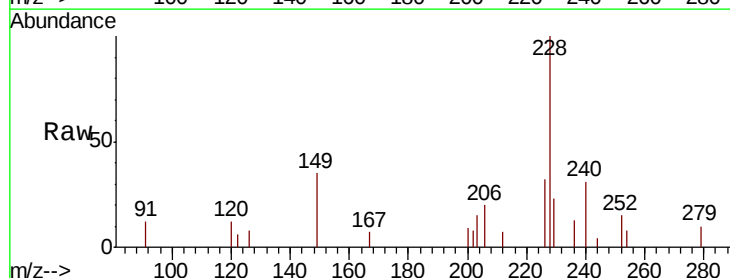
Tgt Ion:228 Resp: 2059

Ion Ratio Lower Upper

228 100

226 31.8 22.0 33.0

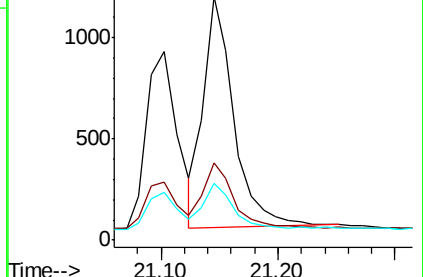
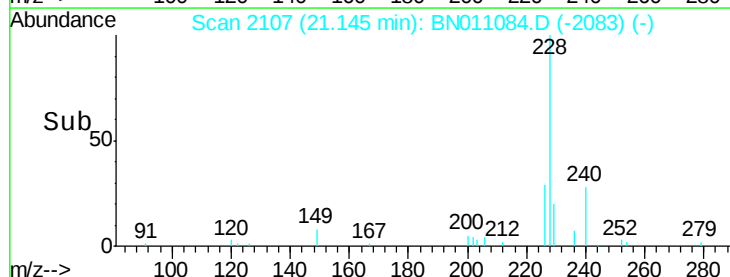
229 23.3 16.1 24.1

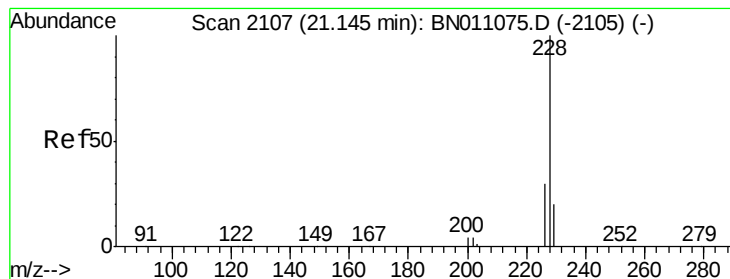


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#33

Chrysene

Concen: 0.093 ng

RT: 21.15 min Scan# 2107

Delta R.T. 0.00 min

Lab File: BN011084.D

Acq: 02 Jul 2020 13:58

Instrument :

BNA\_N

ClientSampleId :

MDL-SOIL-01

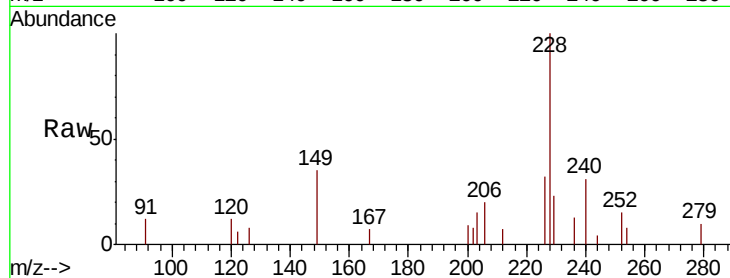
Tot Ion:228 Resp: 2051

Ion Ratio Lower Upper

228 100

226 31.8 24.0 36.0

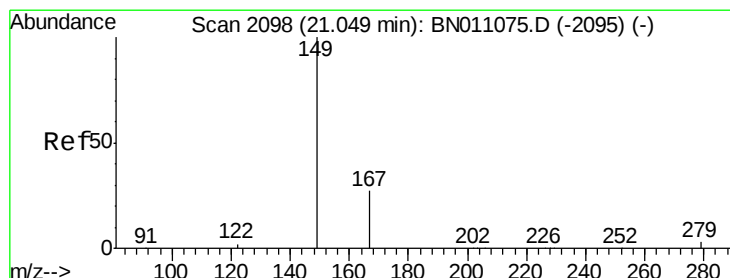
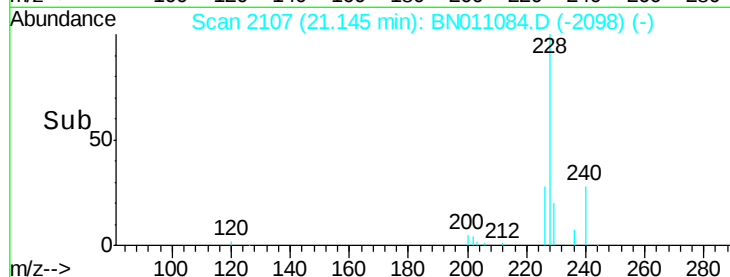
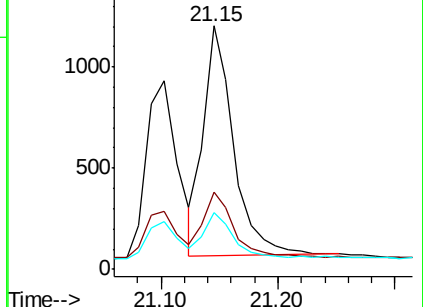
229 23.3 16.4 24.6



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



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.137 ng

RT: 21.05 min Scan# 2098

Delta R.T. 0.00 min

Lab File: BN011084.D

Acq: 02 Jul 2020 13:58

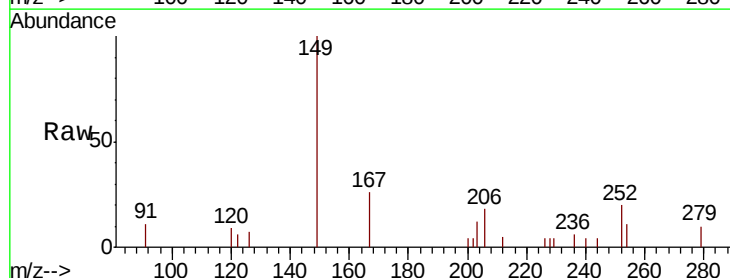
Tgt Ion:149 Resp: 1062

Ion Ratio Lower Upper

149 100

167 29.0 22.2 33.4

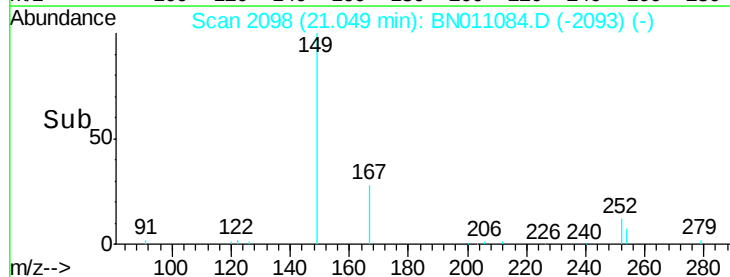
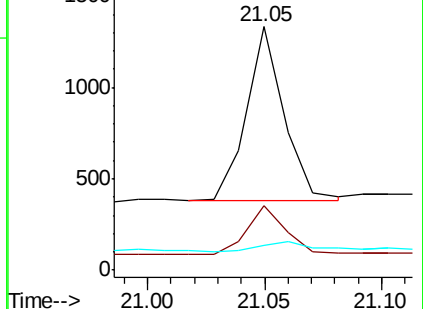
279 8.2 4.5 6.7#

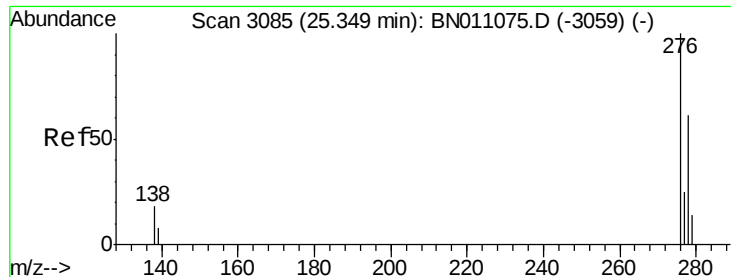


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#35

Indeno(1,2,3-cd)pyrene

Concen: 0.084 ng

RT: 25.36 min Scan# 3089

Delta R.T. 0.01 min

Lab File: BN011084.D

Acq: 02 Jul 2020 13:58

Instrument :

BNA\_N

ClientSampleId :

MDL-SOIL-01

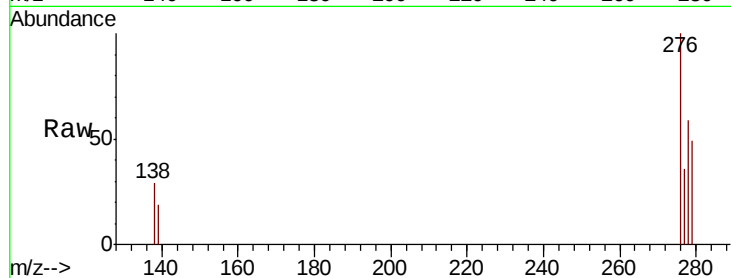
Tot Ion:276 Resp: 1916

Ion Ratio Lower Upper

276 100

138 7.6 15.4 23.0#

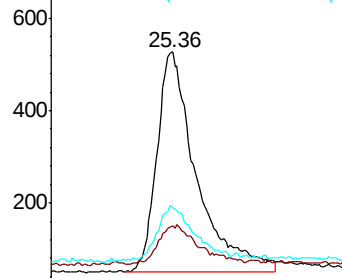
277 22.0 19.4 29.0



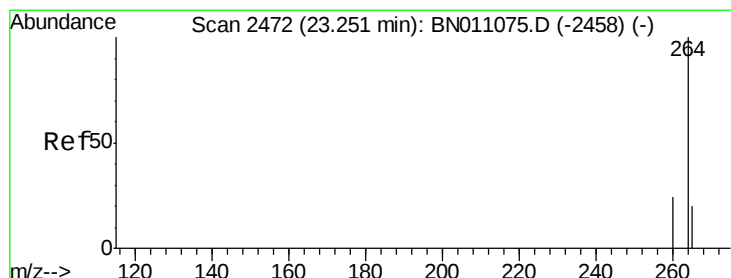
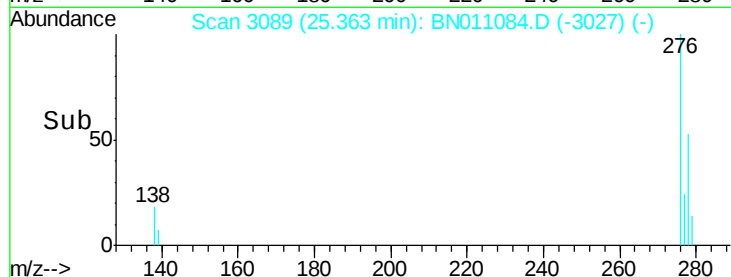
Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



Time-->



#36

Perylene-d12

Concen: 0.400 ng

RT: 23.25 min Scan# 2472

Delta R.T. 0.00 min

Lab File: BN011084.D

Acq: 02 Jul 2020 13:58

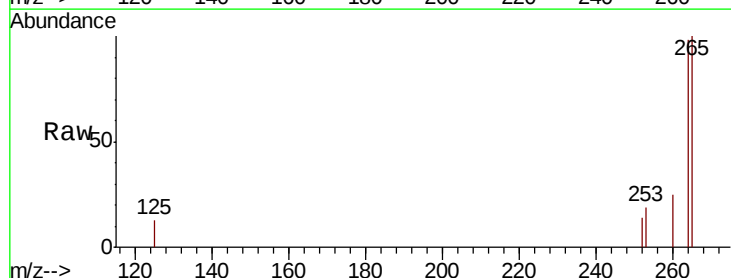
Tgt Ion:264 Resp: 5778

Ion Ratio Lower Upper

264 100

260 25.6 20.4 30.6

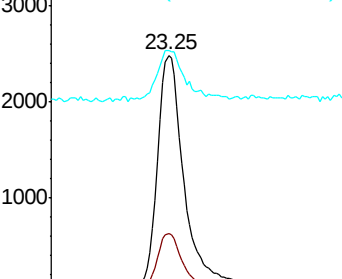
265 101.8 83.0 124.6



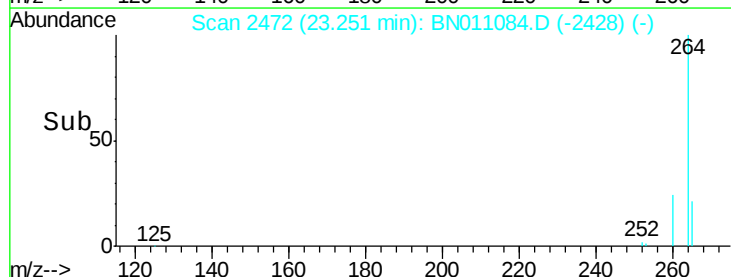
Abundance Ion 264.00 (263.70 to 264.70): E

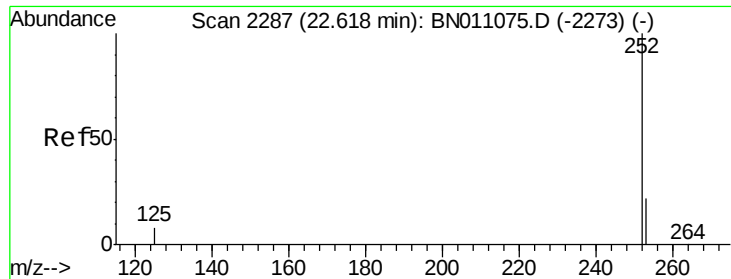
Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E



Time-->





#37

Benzo(b)fluoranthene

Concen: 0.086 ng

RT: 22.62 min Scan# 2289

Delta R.T. 0.01 min

Lab File: BN011084.D

Acq: 02 Jul 2020 13:58

Instrument :

BNA\_N

ClientSampleId :

MDL-SOIL-01

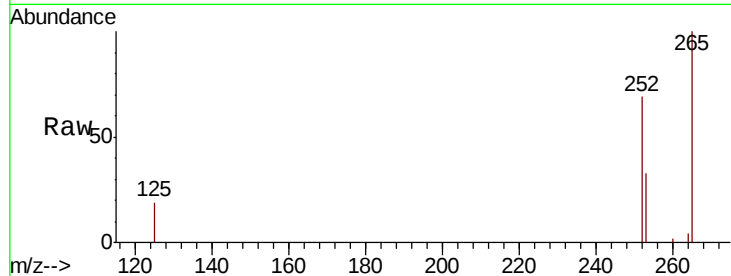
Tot Ion:252 Resp: 1993

Ion Ratio Lower Upper

252 100

253 47.8 22.7 34.1#

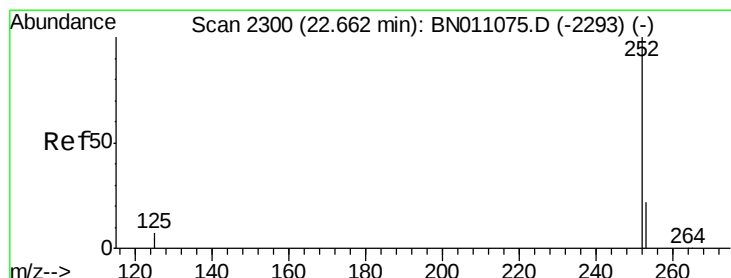
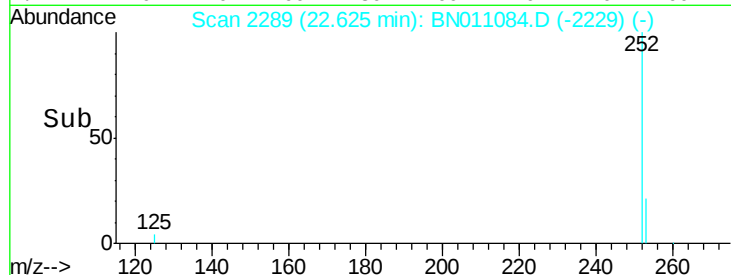
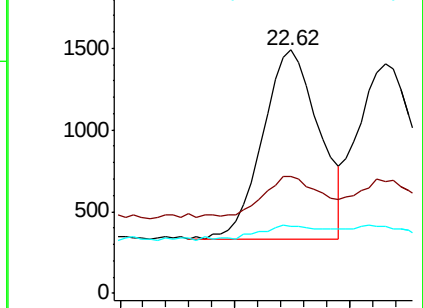
125 27.3 10.4 15.6#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#38

Benzo(k)fluoranthene

Concen: 0.087 ng

RT: 22.67 min Scan# 2301

Delta R.T. 0.00 min

Lab File: BN011084.D

Acq: 02 Jul 2020 13:58

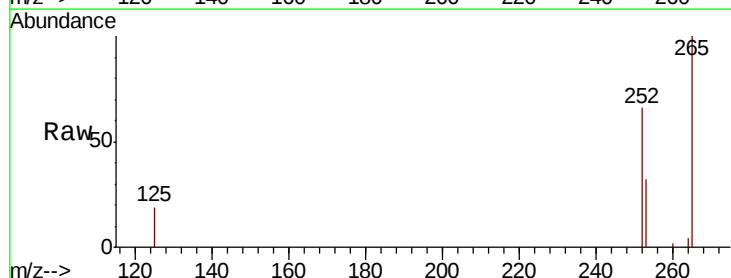
Tgt Ion:252 Resp: 2158

Ion Ratio Lower Upper

252 100

253 48.8 22.9 34.3#

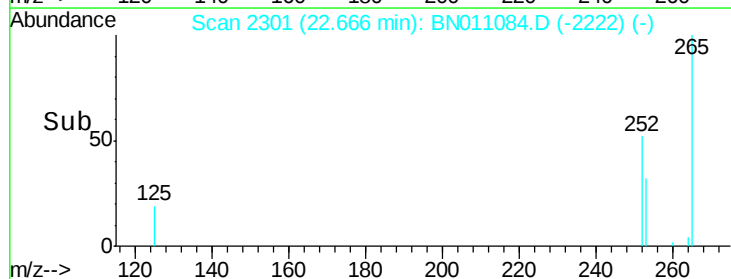
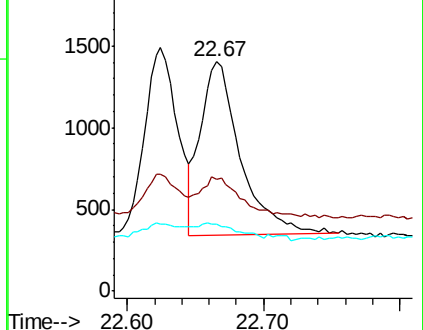
125 28.9 10.6 15.8#

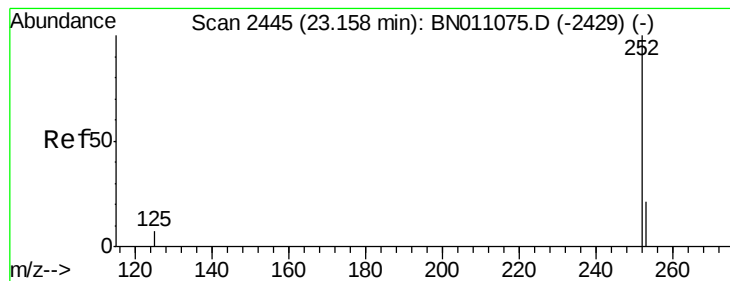


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#39

Benzo(a)pyrene

Concen: 0.079 ng

RT: 23.16 min Scan# 2446

Delta R.T. 0.00 min

Lab File: BN011084.D

Acq: 02 Jul 2020 13:58

Instrument :

BNA\_N

ClientSampleId :

MDL-SOIL-01

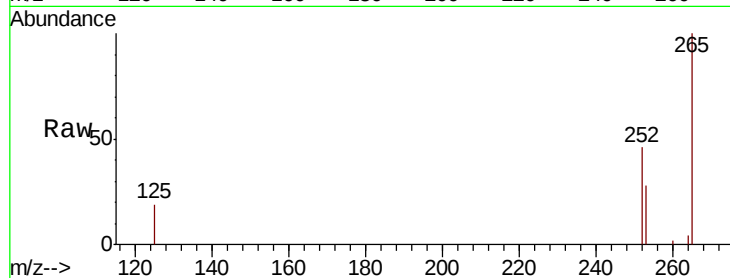
Tot Ion:252 Resp: 1583

Ion Ratio Lower Upper

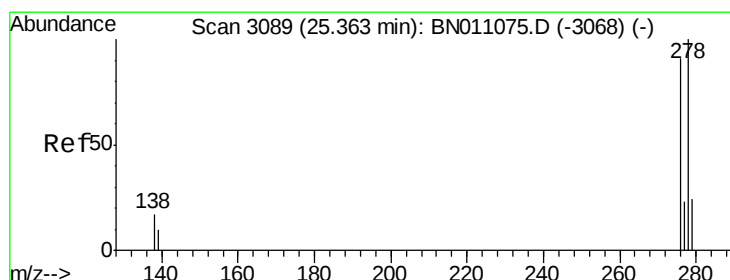
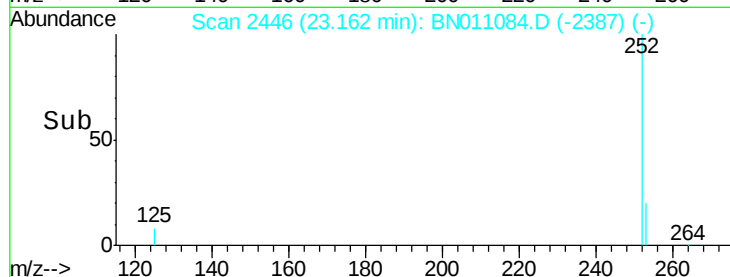
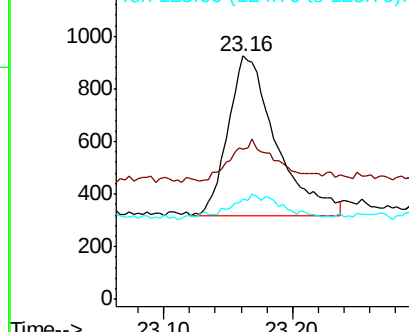
252 100

253 61.9 25.9 38.9#

125 41.1 12.5 18.7#



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#40

Dibenzo(a,h)anthracene

Concen: 0.072 ng

RT: 25.38 min Scan# 3095

Delta R.T. 0.02 min

Lab File: BN011084.D

Acq: 02 Jul 2020 13:58

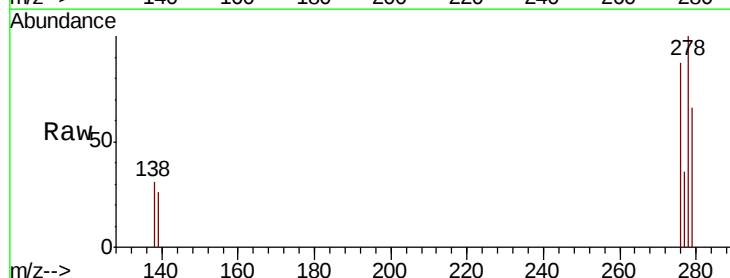
Tgt Ion:278 Resp: 1482

Ion Ratio Lower Upper

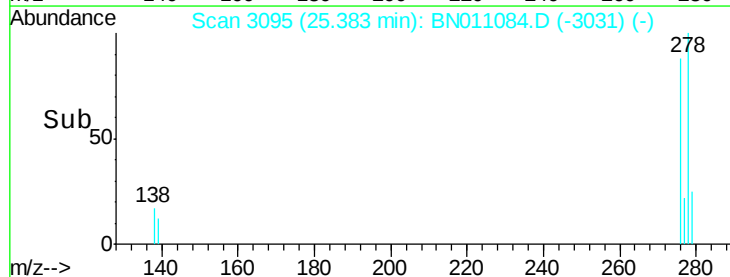
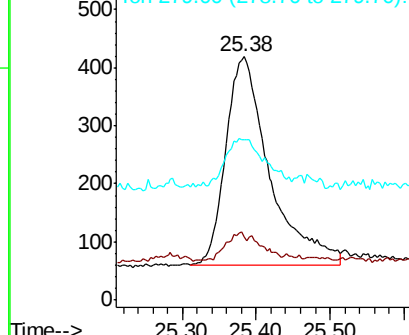
278 100

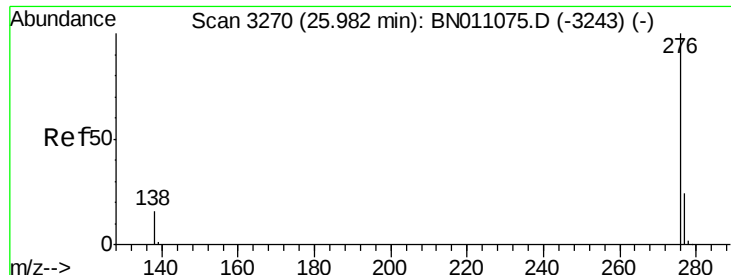
139 25.8 11.9 17.9#

279 65.9 25.5 38.3#



Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E





#41

Benzo(a,h,i)perylene

Concen: 0.084 ng

RT: 25.99 min Scan# 3271

Delta R.T. 0.00 min

Lab File: BN011084.D

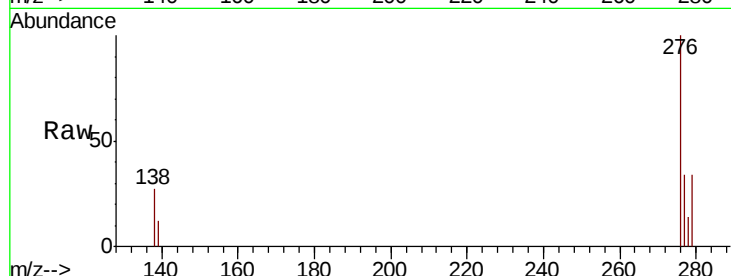
Acq: 02 Jul 2020 13:58

Instrument :

BNA\_N

ClientSampleId :

MDL-SOIL-01



Tot Ion: 276 Resp: 1888

Ion Ratio Lower Upper

276 100

277 33.8 21.1 31.7#

138 26.9 15.0 22.6#

