

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF083120\  
 Data File : BF121485.D  
 Acq On : 31 Aug 2020 19:02  
 Operator : JU/CG  
 Sample : L3847-27  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 LINDEN-JOP-BH-12-B

Quant Time: Sep 01 00:31:21 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF082720.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 28 09:25:49 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 6.86  | 152  | 285747   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8        | 8.15  | 136  | 1044917  | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10      | 9.90  | 164  | 534528   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10      | 11.39 | 188  | 925340   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12          | 14.03 | 240  | 641348   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12          | 15.51 | 264  | 668094   | 20.00 | ng    | 0.02     |

|                             |       |     |         |       |    |       |
|-----------------------------|-------|-----|---------|-------|----|-------|
| System Monitoring Compounds |       |     |         |       |    |       |
| 5) 2-Fluorophenol           | 5.47  | 112 | 1067907 | 62.70 | ng | 0.00  |
| 7) Phenol-d6                | 6.48  | 99  | 1382231 | 58.07 | ng | -0.01 |
| 23) Nitrobenzene-d5         | 7.42  | 82  | 894237  | 58.51 | ng | 0.00  |
| 42) 2,4,6-Tribromophenol    | 10.69 | 330 | 368883  | 68.32 | ng | 0.00  |
| 45) 2-Fluorobiphenyl        | 9.22  | 172 | 1632013 | 49.26 | ng | 0.00  |
| 79) Terphenyl-d14           | 12.97 | 244 | 1343101 | 44.08 | ng | 0.00  |

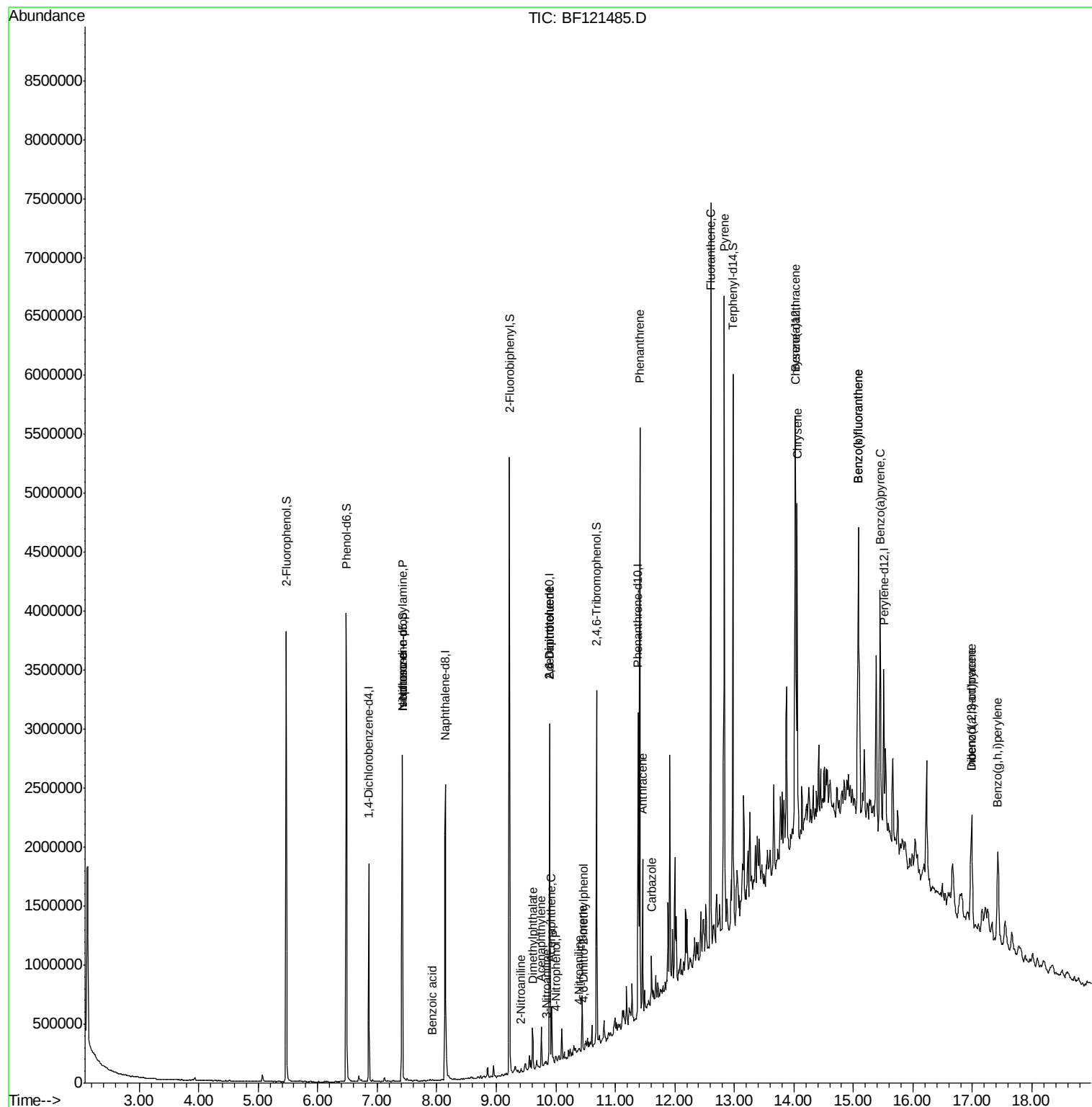
|                                |       |     |         |           |   |     |
|--------------------------------|-------|-----|---------|-----------|---|-----|
| Target Compounds               |       |     |         | Qvalue    |   |     |
| 9) Benzaldehyde                | 6.41  | 77  | 886     | Below Cal |   | 94  |
| 19) n-Nitroso-di-n-propylamine | 7.42  | 70  | 120000  | 9.022 ng  | # | 76  |
| 25) Isophorone                 | 7.42  | 82  | 883608  | 25.703 ng | # | 64  |
| 32) Benzoic acid               | 7.92  | 122 | 839     | 6.781 ng  | # | 68  |
| 48) 2-Nitroaniline             | 9.42  | 65  | 230     | 6.669 ng  | # | 67  |
| 49) Acenaphthylene             | 9.76  | 152 | 123046  | 2.474 ng  |   | 98  |
| 50) Dimethylphthalate          | 9.61  | 163 | 125233  | 3.411 ng  |   | 100 |
| 51) 2,6-Dinitrotoluene         | 9.90  | 165 | 73144   | 15.627 ng | # | 25  |
| 52) Acenaphthene               | 9.93  | 154 | 101500  | 3.232 ng  |   | 98  |
| 53) 3-Nitroaniline             | 9.85  | 138 | 478     | 5.500 ng  | # | 37  |
| 56) 4-Nitrophenol              | 10.00 | 139 | 1301    | 8.022 ng  | # | 1   |
| 57) 2,4-Dinitrotoluene         | 9.90  | 165 | 73144   | 14.601 ng | # | 21  |
| 58) Fluorene                   | 10.45 | 166 | 118387  | 3.443 ng  |   | 99  |
| 62) 4-Nitroaniline             | 10.37 | 138 | 1320    | 4.669 ng  |   | 83  |
| 65) 4,6-Dinitro-2-methylphenol | 10.47 | 198 | 118     | 5.456 ng  | # | 1   |
| 71) Phenanthrene               | 11.41 | 178 | 1846442 | 38.883 ng |   | 99  |
| 72) Anthracene                 | 11.46 | 178 | 513669  | 10.998 ng |   | 96  |
| 73) Carbazole                  | 11.61 | 167 | 175946  | 3.907 ng  |   | 99  |
| 75) Fluoranthene               | 12.60 | 202 | 2704813 | 52.851 ng |   | 100 |
| 78) Pvrene                     | 12.83 | 202 | 2481640 | 54.180 ng |   | 99  |
| 81) Benzo(a)anthracene         | 14.02 | 228 | 1374927 | 35.118 ng |   | 97  |
| 83) Chrysene                   | 14.06 | 228 | 1110910 | 28.362 ng |   | 96  |
| 87) Indeno(1,2,3-cd)pyrene     | 16.99 | 276 | 660428  | 16.066 ng |   | 96  |
| 88) Benzo(b)fluoranthene       | 15.08 | 252 | 1992416 | 45.846 ng |   | 97  |
| 89) Benzo(k)fluoranthene       | 15.08 | 252 | 1992416 | 49.289 ng |   | 96  |
| 90) Benzo(a)pyrene             | 15.45 | 252 | 1095512 | 28.033 ng |   | 97  |
| 91) Dibenzo(a,h)anthracene     | 16.99 | 278 | 167733  | 4.985 ng  | # | 88  |
| 92) Benzo(g,h,i)perylene       | 17.43 | 276 | 669891  | 20.667 ng |   | 97  |

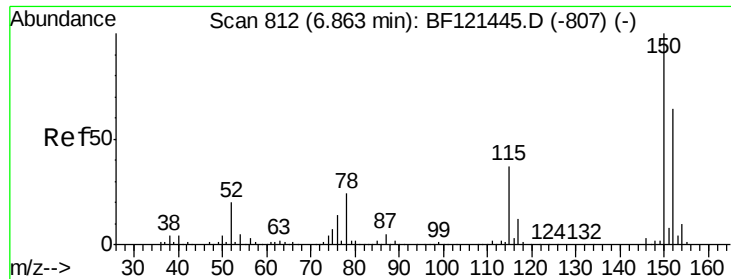
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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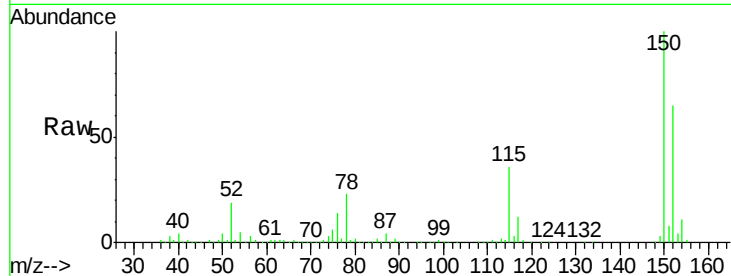


#1

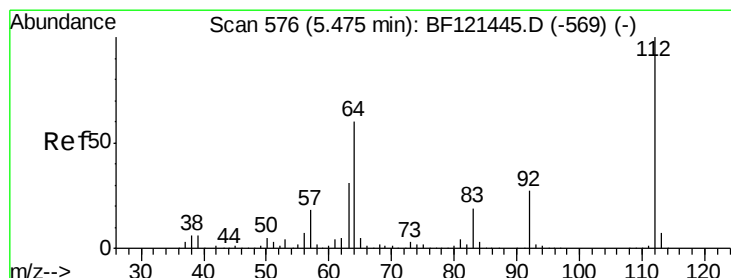
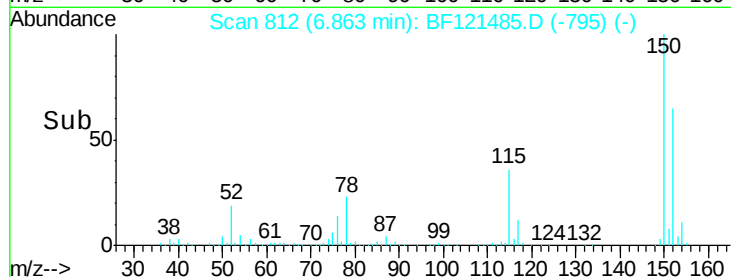
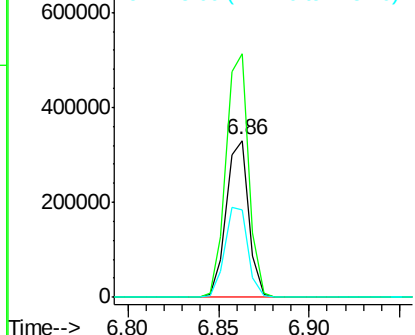
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.86 min Scan# 812  
Delta R.T. -0.00 min  
Lab File: BF121485.D  
Acq: 31 Aug 2020 19:02

Instrument :  
BNA\_F  
ClientSampleId :  
LINDEN-JOP-BH-12-B

Tot Ion:152 Resp: 285747  
Ion Ratio Lower Upper  
152 100  
150 155.0 125.8 188.6  
115 56.1 46.6 69.8



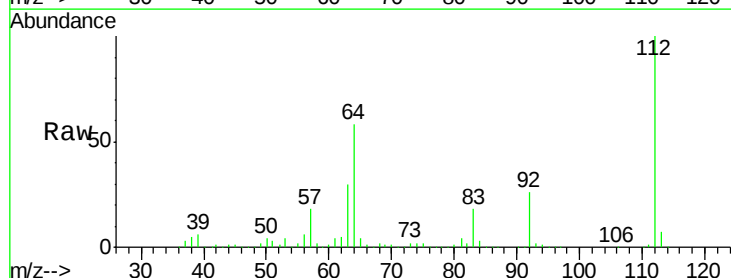
Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 150.00 (149.70 to 150.70): E  
Ion 115.00 (114.70 to 115.70): E



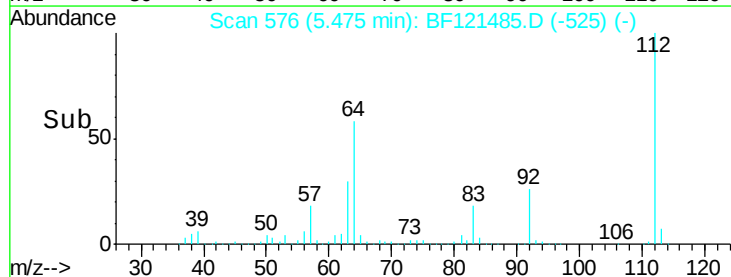
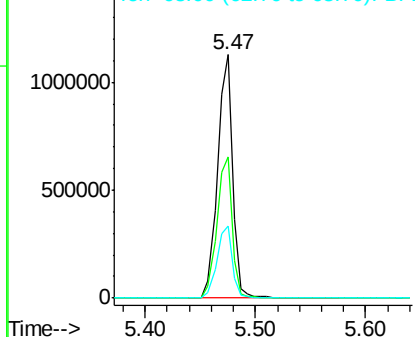
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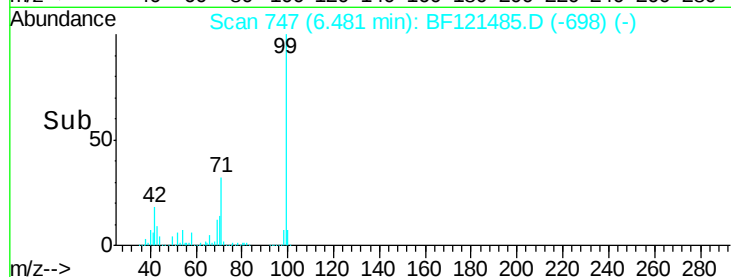
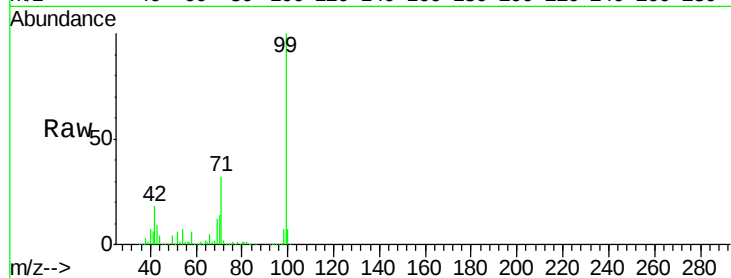
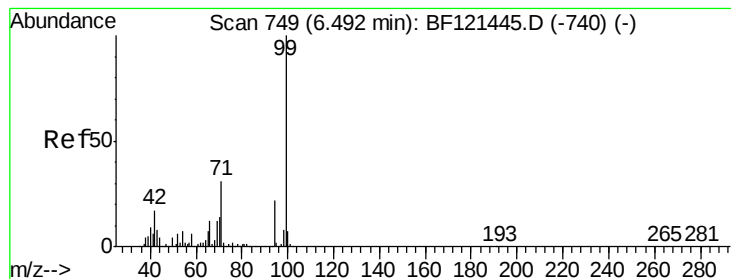
2-Fluorophenol  
Concen: 62.701 ng  
RT: 5.47 min Scan# 576  
Delta R.T. -0.00 min  
Lab File: BF121485.D  
Acq: 31 Aug 2020 19:02

Tgt Ion:112 Resp: 1067907  
Ion Ratio Lower Upper  
112 100  
64 58.1 48.2 72.2  
63 29.5 24.8 37.2



Abundance Ion 112.00 (111.70 to 112.70): E  
Ion 64.00 (63.70 to 64.70): BF1  
Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 58.074 ng

RT: 6.48 min Scan# 747

Delta R.T. -0.01 min

Lab File: BF121485.D

Acq: 31 Aug 2020 19:02

Instrument :

BNA\_F

ClientSampleId :

LINDEN-JOP-BH-12-B

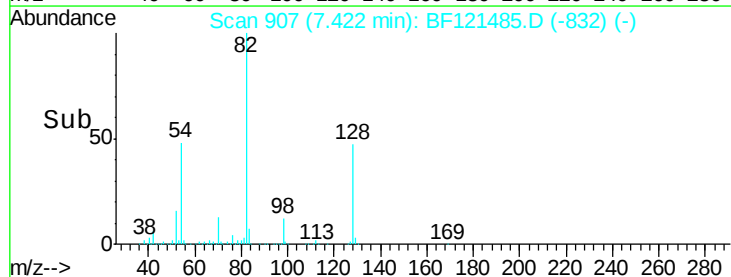
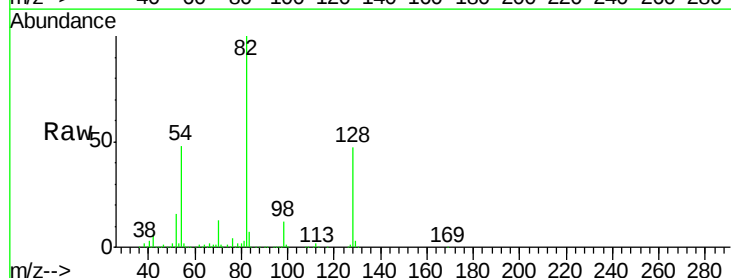
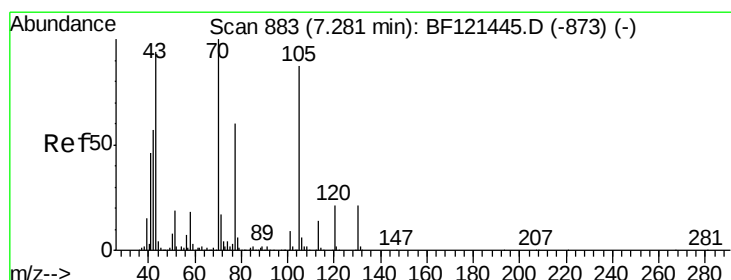
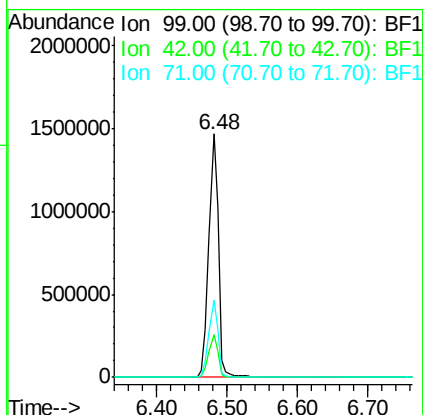
Tot Ion: 99 Resp: 1382231

Ion Ratio Lower Upper

99 100

42 17.6 13.5 20.3

71 31.5 24.6 37.0



#19

n-Nitroso-di-n-propylamine

Concen: 9.022 ng

RT: 7.42 min Scan# 907

Delta R.T. 0.14 min

Lab File: BF121485.D

Acq: 31 Aug 2020 19:02

Tgt Ion: 70 Resp: 120000

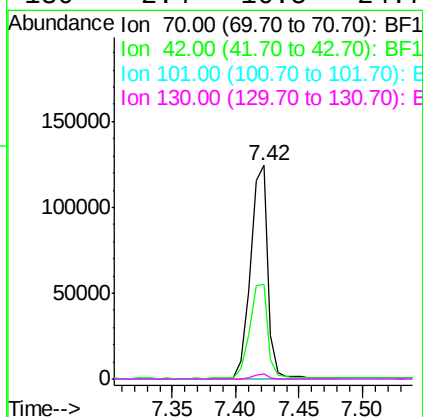
Ion Ratio Lower Upper

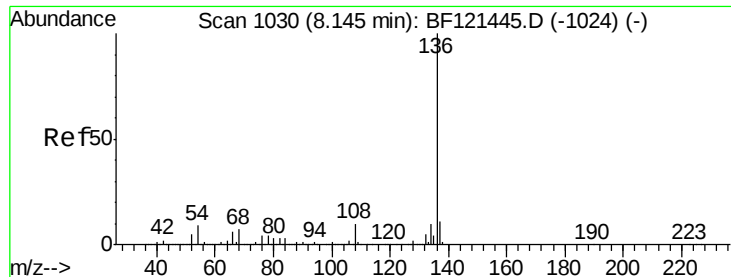
70 100

42 44.2 45.8 68.6#

101 0.0 7.5 11.3#

130 2.4 16.5 24.7#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.15 min Scan# 1030

Delta R.T. -0.00 min

Lab File: BF121485.D

Acq: 31 Aug 2020 19:02

Instrument :

BNA\_F

ClientSampleId :

LINDEN-JOP-BH-12-B

Tot Ion:136 Resp: 1044917

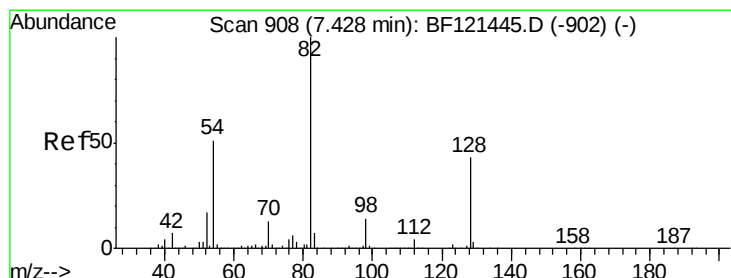
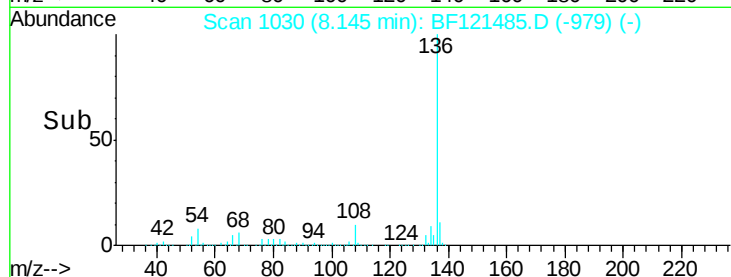
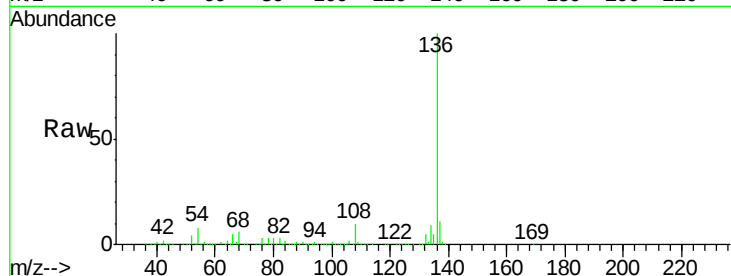
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 10.9  | 9.1   | 13.7  |
| 54  | 7.8   | 7.0   | 10.4  |
| 68  | 6.2   | 5.5   | 8.3   |

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): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 58.507 ng

RT: 7.42 min Scan# 907

Delta R.T. -0.01 min

Lab File: BF121485.D

Acq: 31 Aug 2020 19:02

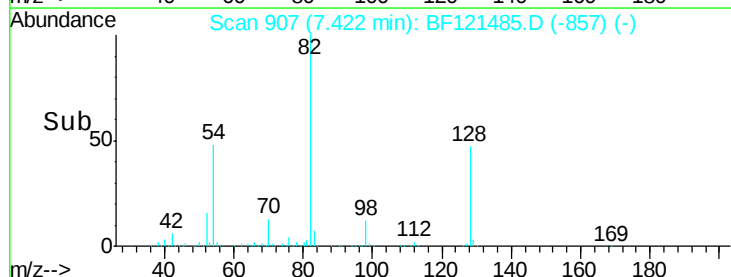
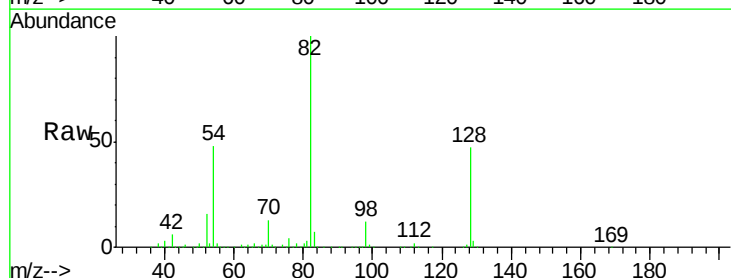
Tgt Ion: 82 Resp: 894237

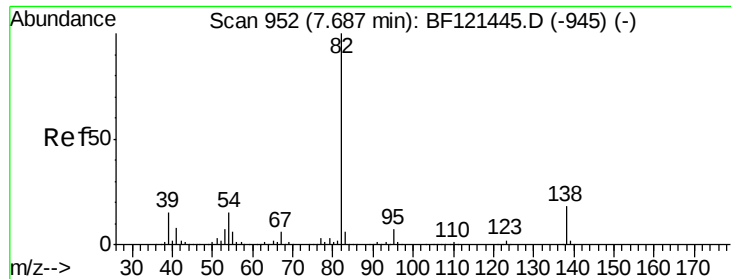
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 47.1  | 34.1  | 51.1  |
| 54  | 47.9  | 41.0  | 61.6  |

Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 25.703 ng

RT: 7.42 min Scan# 907

Delta R.T. -0.26 min

Lab File: BF121485.D

Acq: 31 Aug 2020 19:02

Instrument :

BNA\_F

ClientSampleId :

LINDEN-JOP-BH-12-B

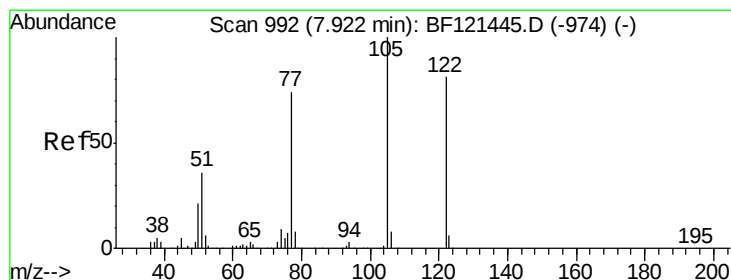
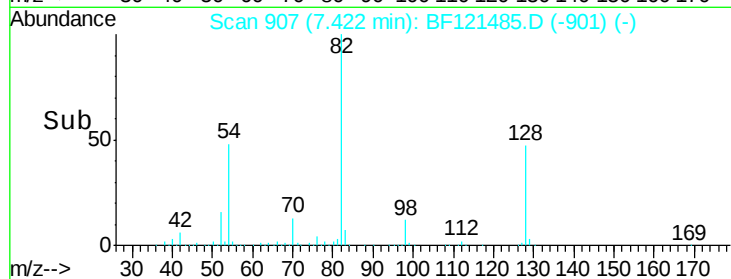
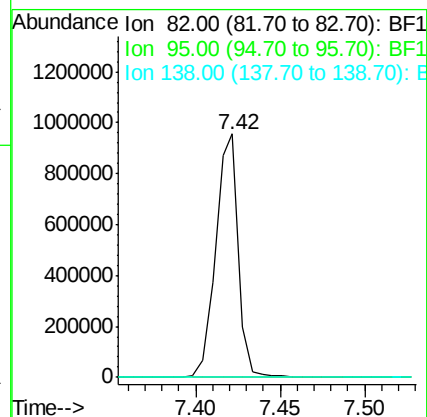
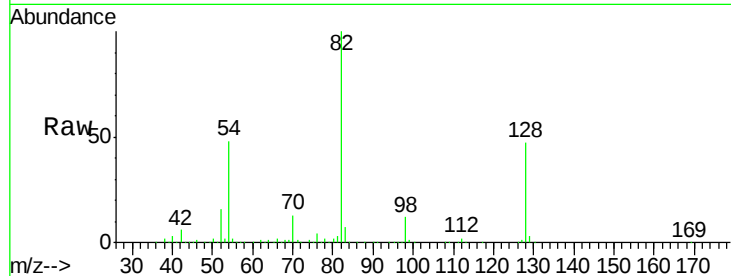
Tot Ion: 82 Resp: 883608

Ion Ratio Lower Upper

82 100

95 0.1 5.6 8.4#

138 0.0 14.8 22.2#



#32

Benzoic acid

Concen: 6.781 ng

RT: 7.92 min Scan# 992

Delta R.T. 0.00 min

Lab File: BF121485.D

Acq: 31 Aug 2020 19:02

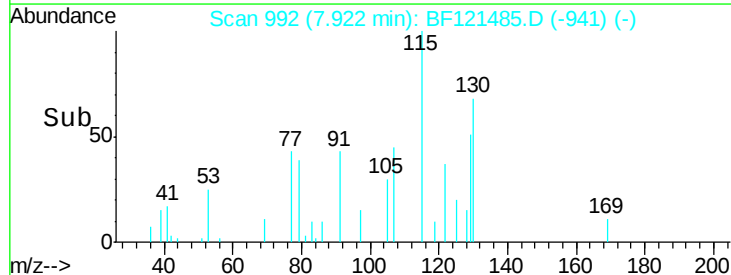
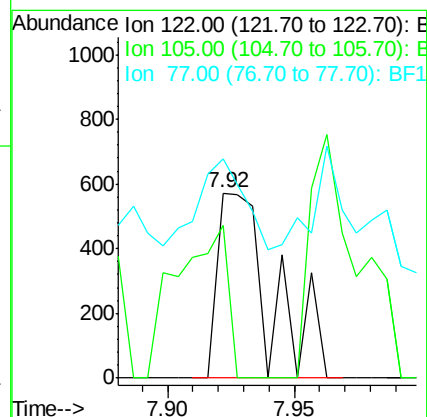
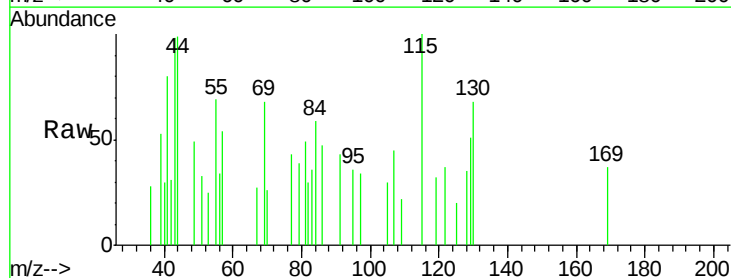
Tgt Ion: 122 Resp: 839

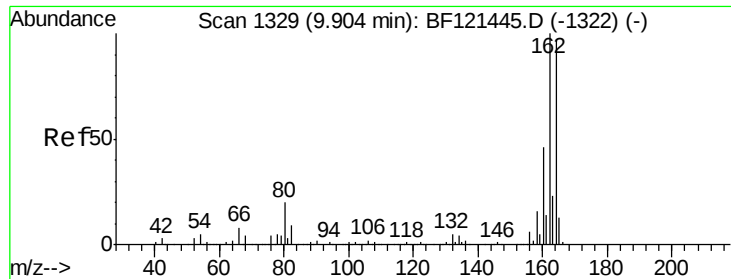
Ion Ratio Lower Upper

122 100

105 82.2 100.8 140.8#

77 118.2 71.5 111.5#

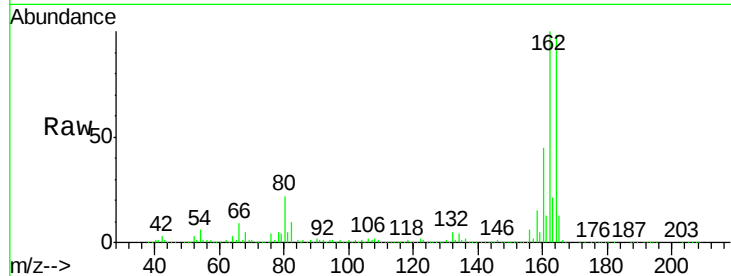




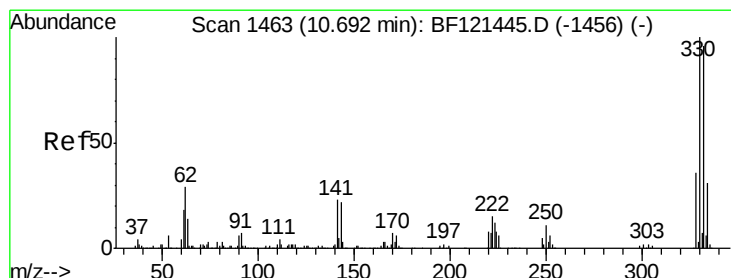
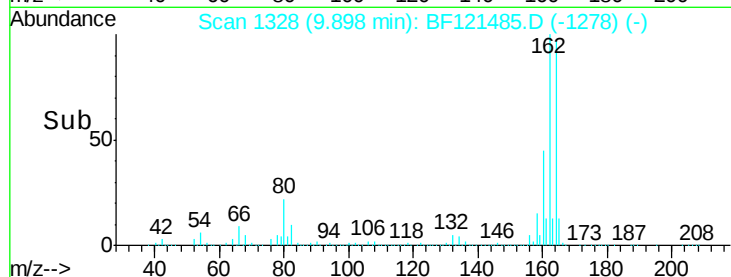
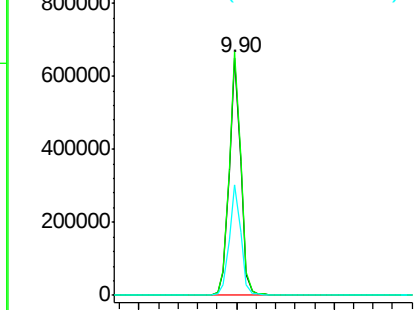
#39  
 Acenaphthene-d10  
 Concen: 20.000 ng  
 RT: 9.90 min Scan# 1328  
 Delta R.T. -0.01 min  
 Lab File: BF121485.D  
 Acq: 31 Aug 2020 19:02

Instrument :  
 BNA\_F  
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 LINDEN-JOP-BH-12-B

Tot Ion:164 Resp: 534528  
 Ion Ratio Lower Upper  
 164 100  
 162 102.5 82.4 123.6  
 160 46.3 37.6 56.4

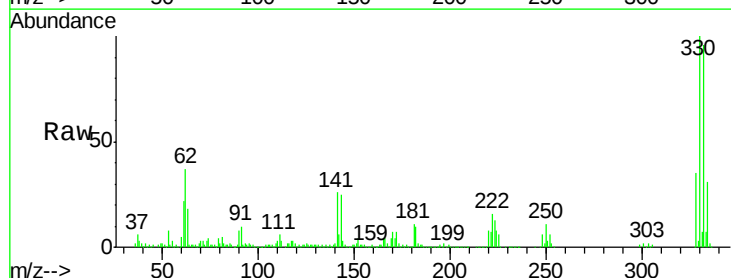


Abundance Ion 164.00 (163.70 to 164.70): E  
 Ion 162.00 (161.70 to 162.70): E  
 Ion 160.00 (159.70 to 160.70): E

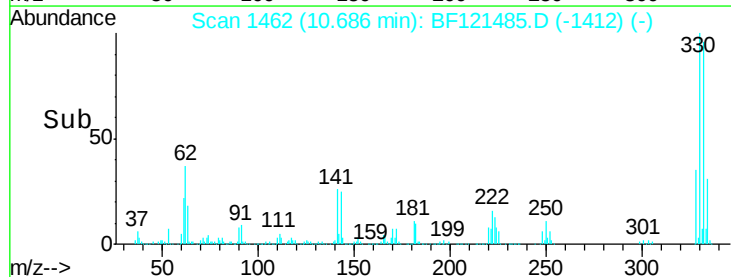
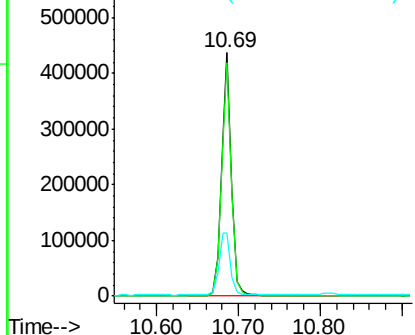


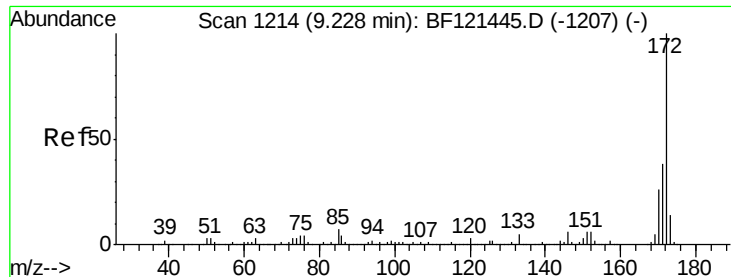
#42  
 2,4,6-Tribromophenol  
 Concen: 68.324 ng  
 RT: 10.69 min Scan# 1462  
 Delta R.T. -0.01 min  
 Lab File: BF121485.D  
 Acq: 31 Aug 2020 19:02

Tgt Ion:330 Resp: 368883  
 Ion Ratio Lower Upper  
 330 100  
 332 96.2 76.2 114.2  
 141 30.3 24.6 36.8



Abundance Ion 329.80 (329.50 to 330.50): E  
 Ion 331.80 (331.50 to 332.50): E  
 Ion 141.00 (140.70 to 141.70): E

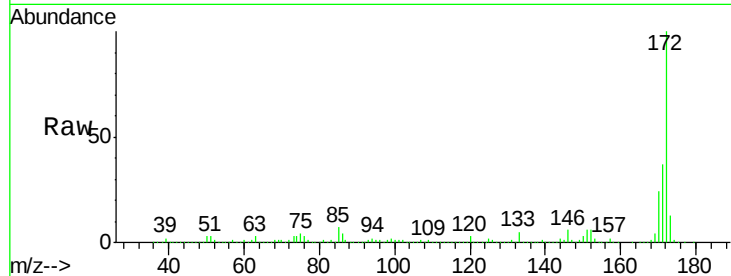




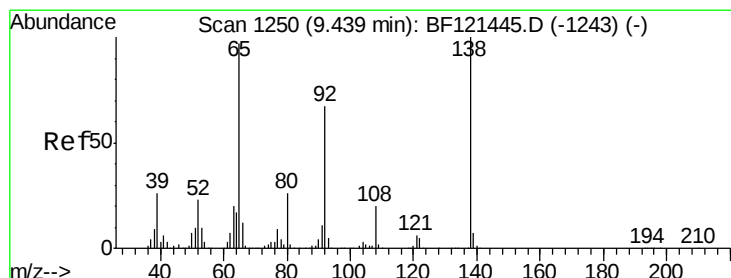
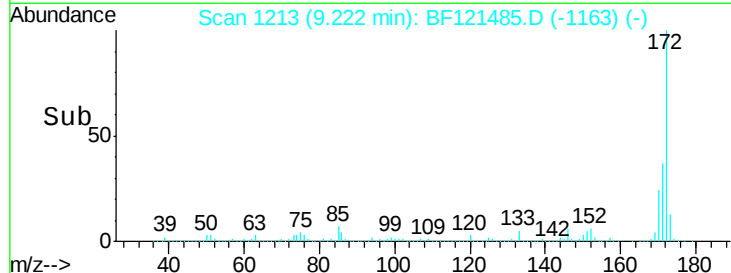
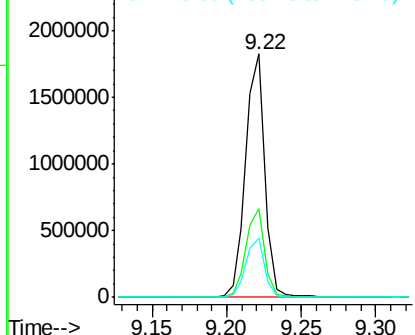
#45  
2-Fluorobiphenyl  
Concen: 49.264 ng  
RT: 9.22 min Scan# 1213  
Delta R.T. -0.01 min  
Lab File: BF121485.D  
Acq: 31 Aug 2020 19:02

Instrument :  
BNA\_F  
ClientSampleId :  
LINDEN-JOP-BH-12-B

Tot Ion:172 Resp: 1632013  
Ion Ratio Lower Upper  
172 100  
171 36.7 30.6 45.8  
170 24.4 20.6 31.0

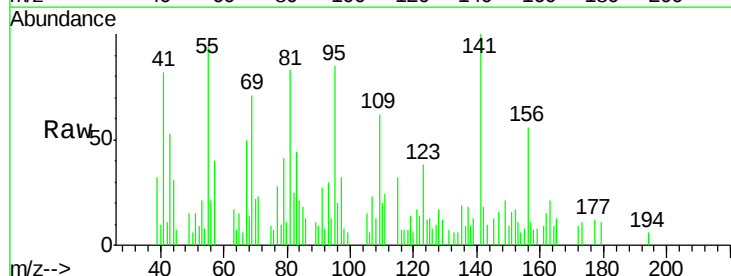


Abundance Ion 172.00 (171.70 to 172.70): E  
Ion 171.00 (170.70 to 171.70): E  
Ion 170.00 (169.70 to 170.70): E

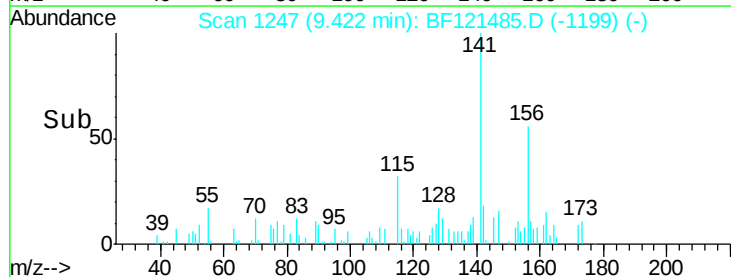
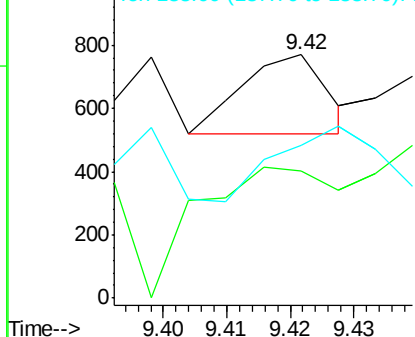


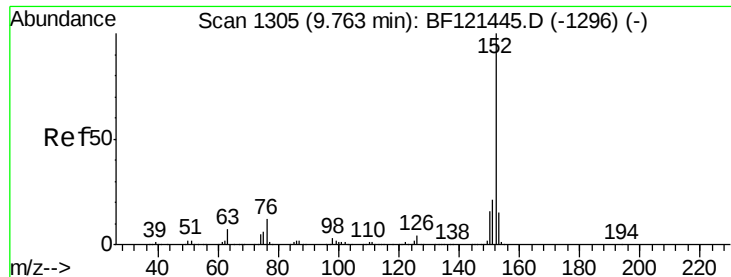
#48  
2-Nitroaniline  
Concen: 6.669 ng  
RT: 9.42 min Scan# 1247  
Delta R.T. -0.02 min  
Lab File: BF121485.D  
Acq: 31 Aug 2020 19:02

Tgt Ion: 65 Resp: 230  
Ion Ratio Lower Upper  
65 100  
92 52.1 55.6 83.4#  
138 62.6 82.9 124.3#



Abundance Ion 65.00 (64.70 to 65.70): BF1  
Ion 92.00 (91.70 to 92.70): BF1  
Ion 138.00 (137.70 to 138.70): E





#49

Acenaphthylene

Concen: 2.474 ng

RT: 9.76 min Scan# 1304

Delta R.T. -0.01 min

Lab File: BF121485.D

Acq: 31 Aug 2020 19:02

Instrument :

BNA\_F

ClientSampleId :

LINDEN-JOP-BH-12-B

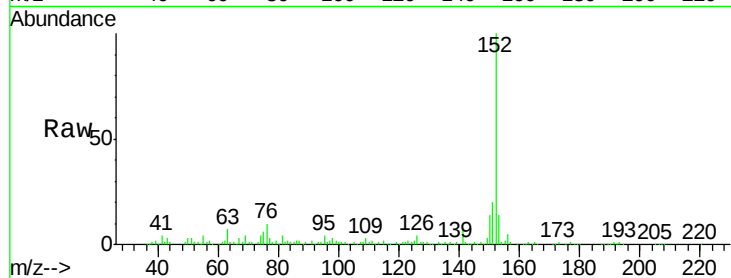
Tot Ion:152 Resp: 123046

Ion Ratio Lower Upper

152 100

151 20.0 17.2 25.8

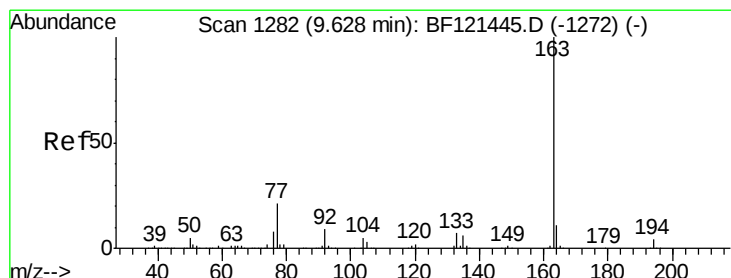
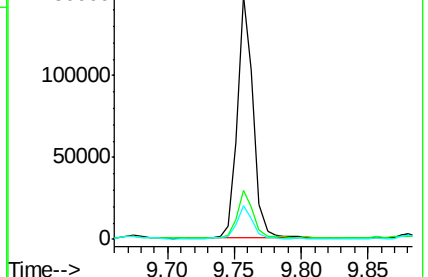
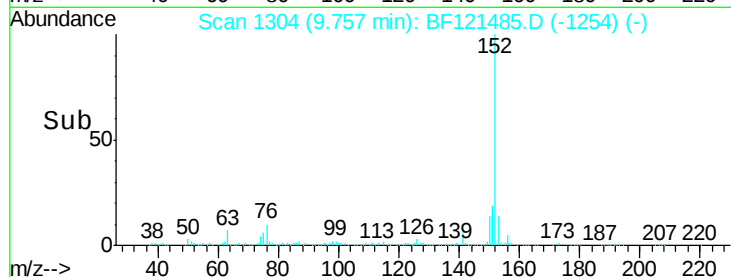
153 14.0 11.6 17.4



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

Dimethylphthalate

Concen: 3.411 ng

RT: 9.61 min Scan# 1279

Delta R.T. -0.02 min

Lab File: BF121485.D

Acq: 31 Aug 2020 19:02

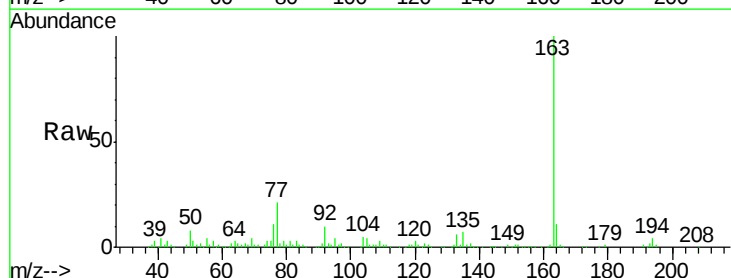
Tgt Ion:163 Resp: 125233

Ion Ratio Lower Upper

163 100

194 4.1 3.3 4.9

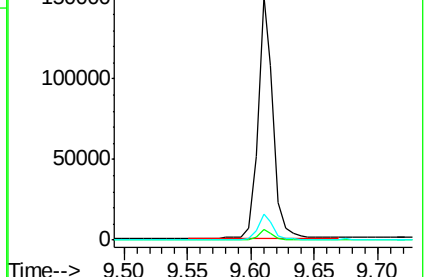
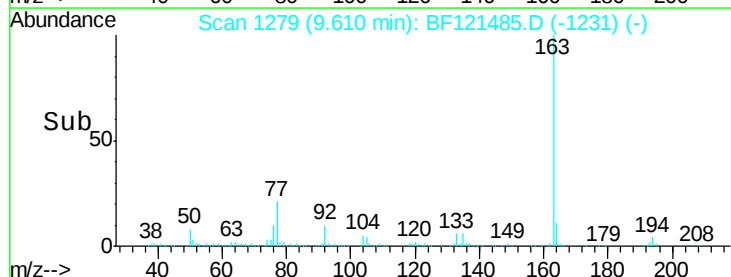
164 10.8 8.6 12.8

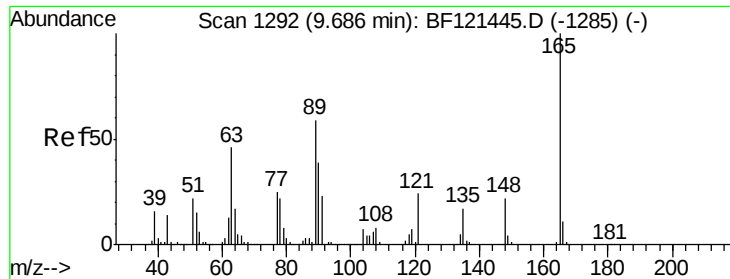


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E





#51

2,6-Dinitrotoluene

Concen: 15.627 ng

RT: 9.90 min Scan# 1328

Delta R.T. 0.21 min

Lab File: BF121485.D

Acq: 31 Aug 2020 19:02

Instrument :

BNA\_F

ClientSampleId :

LINDEN-JOP-BH-12-B

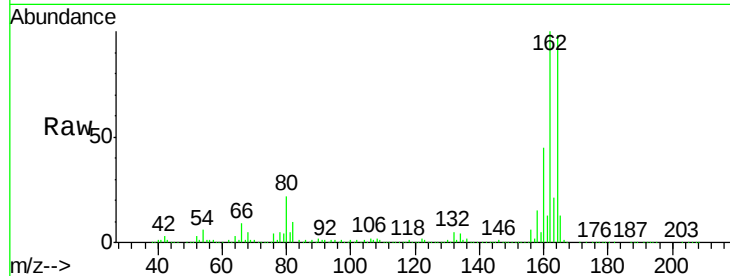
Tot Ion:165 Resp: 73144

Ion Ratio Lower Upper

165 100

63 1.4 43.6 65.4#

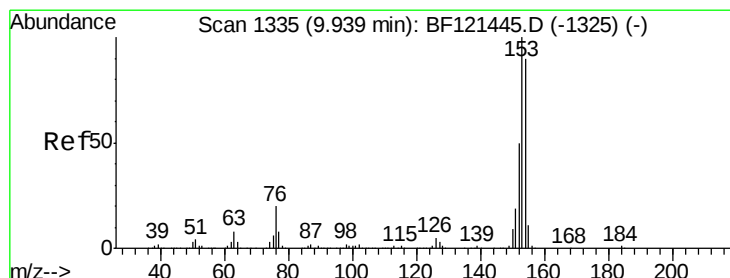
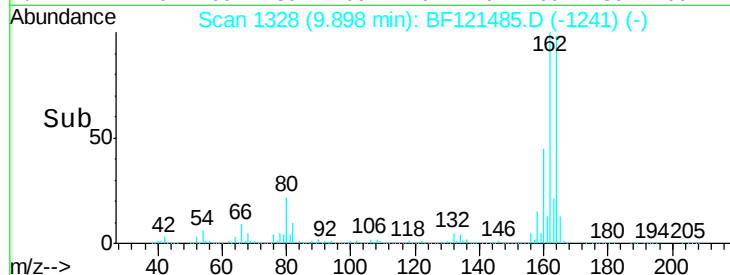
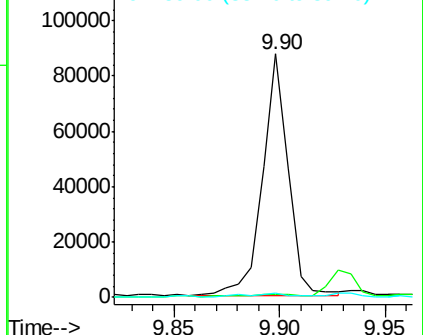
89 1.6 47.4 71.2#



Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1



#52

Acenaphthene

Concen: 3.232 ng

RT: 9.93 min Scan# 1333

Delta R.T. -0.01 min

Lab File: BF121485.D

Acq: 31 Aug 2020 19:02

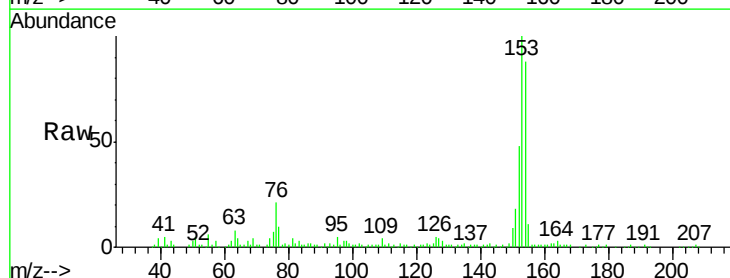
Tgt Ion:154 Resp: 101500

Ion Ratio Lower Upper

154 100

153 113.4 88.9 133.3

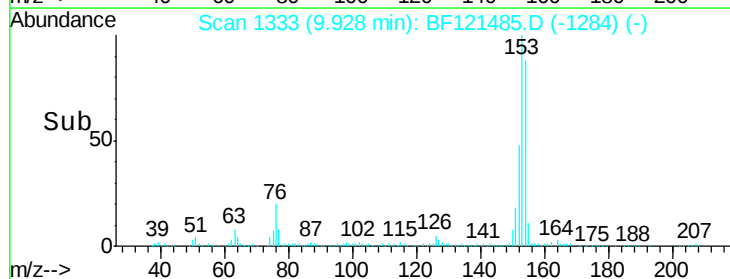
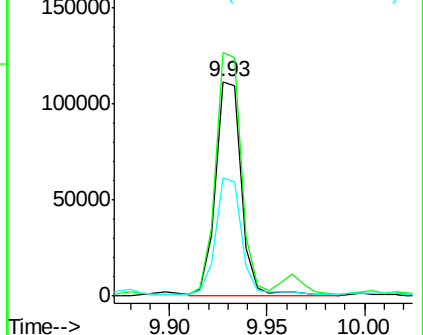
152 54.9 44.1 66.1

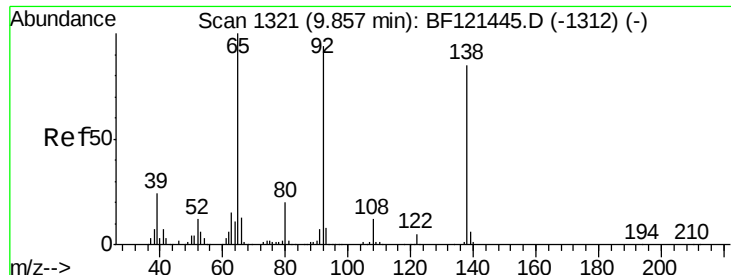


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

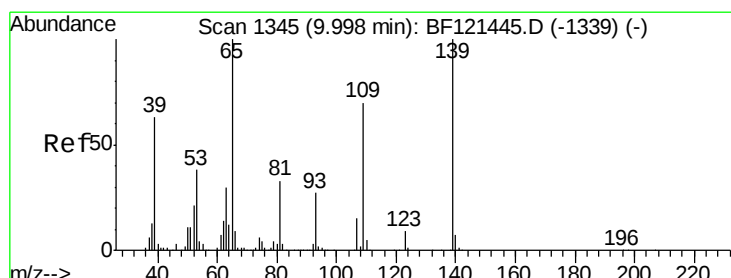
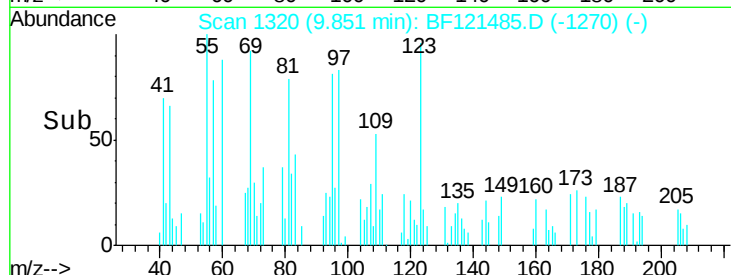
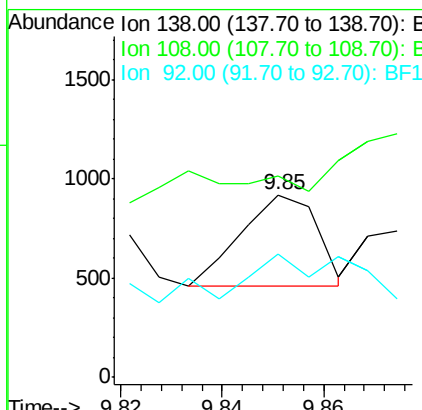
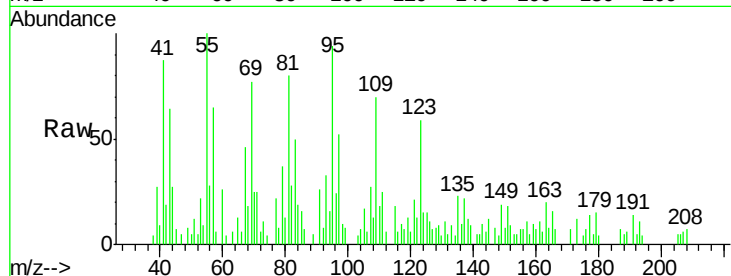




#53  
3-Nitroaniline  
Concen: 5.500 ng  
RT: 9.85 min Scan# 1320  
Delta R.T. -0.00 min  
Lab File: BF121485.D  
Acq: 31 Aug 2020 19:02

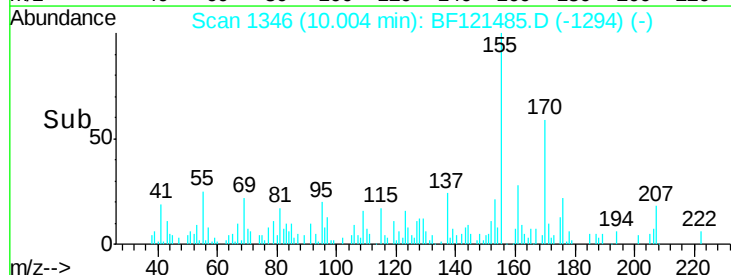
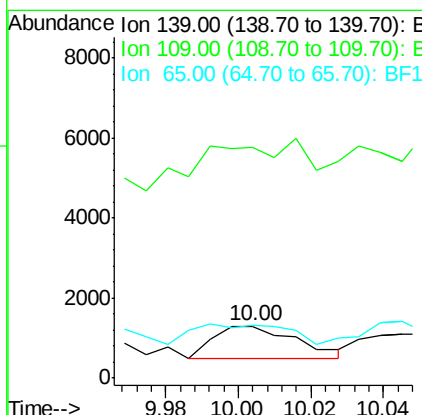
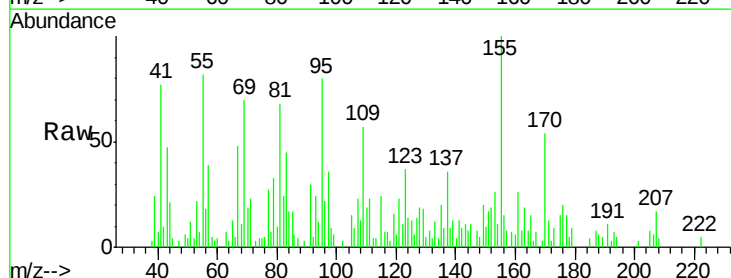
Instrument :  
BNA\_F  
ClientSampleId :  
LINDEN-JOP-BH-12-B

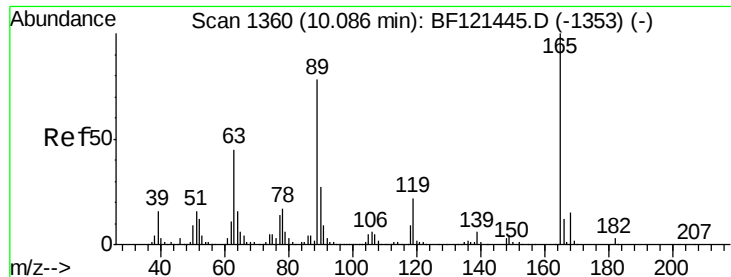
Tot Ion:138 Resp: 478  
Ion Ratio Lower Upper  
138 100  
108 110.4 11.6 17.4#  
92 67.5 88.6 132.8#



#56  
4-Nitrophenol  
Concen: 8.022 ng  
RT: 10.00 min Scan# 1346  
Delta R.T. 0.01 min  
Lab File: BF121485.D  
Acq: 31 Aug 2020 19:02

Tgt Ion:139 Resp: 1301  
Ion Ratio Lower Upper  
139 100  
109 443.5 50.5 90.5#  
65 102.8 80.2 120.2





#57

2,4-Dinitrotoluene

Concen: 14.601 ng

RT: 9.90 min Scan# 1328

Delta R.T. -0.19 min

Lab File: BF121485.D

Acq: 31 Aug 2020 19:02

Instrument :

BNA\_F

ClientSampleId :

LINDEN-JOP-BH-12-B

Tot Ion:165 Resp: 73144

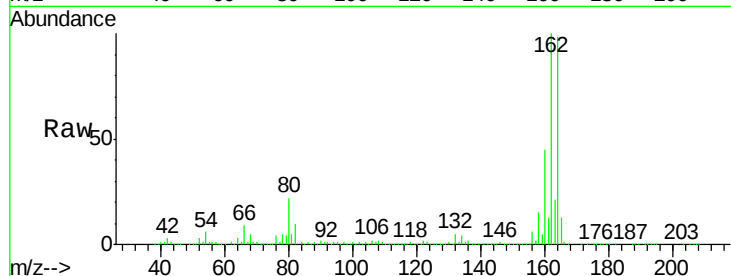
Ion Ratio Lower Upper

165 100

63 1.4 36.0 54.0#

89 1.6 62.6 93.8#

182 0.4 2.2 3.2#

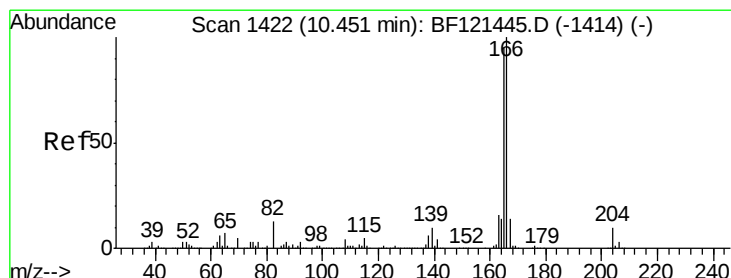
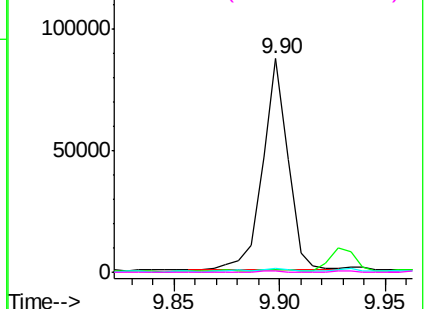
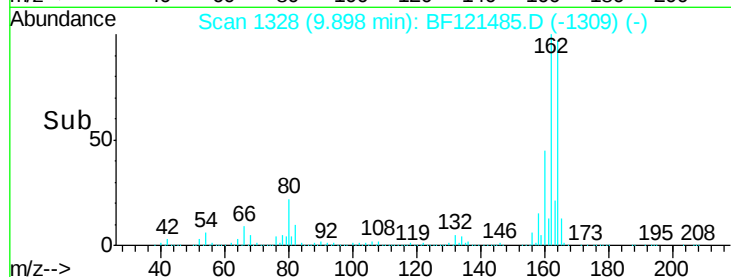


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#58

Fluorene

Concen: 3.443 ng

RT: 10.45 min Scan# 1421

Delta R.T. -0.01 min

Lab File: BF121485.D

Acq: 31 Aug 2020 19:02

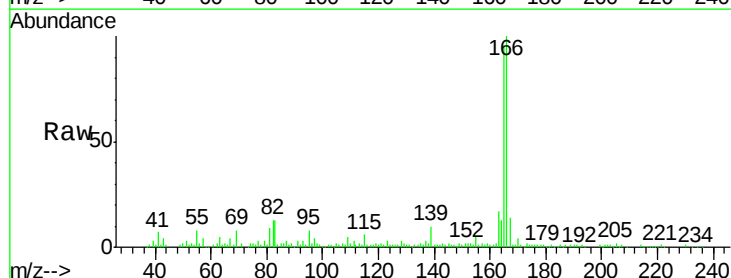
Tgt Ion:166 Resp: 118387

Ion Ratio Lower Upper

166 100

165 96.1 75.7 113.5

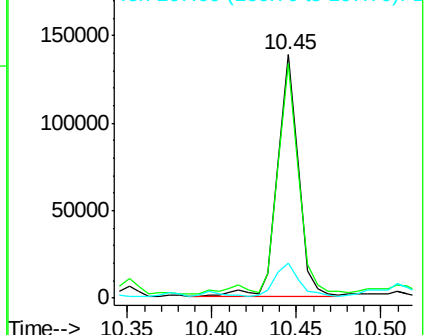
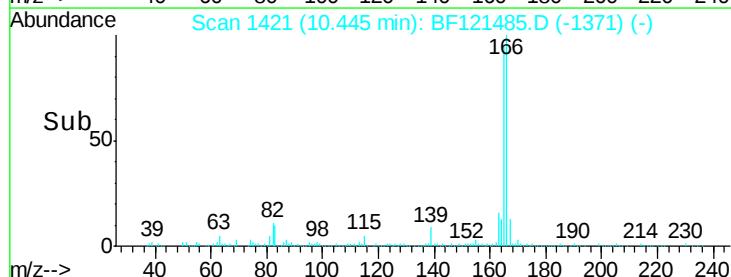
167 14.1 11.1 16.7

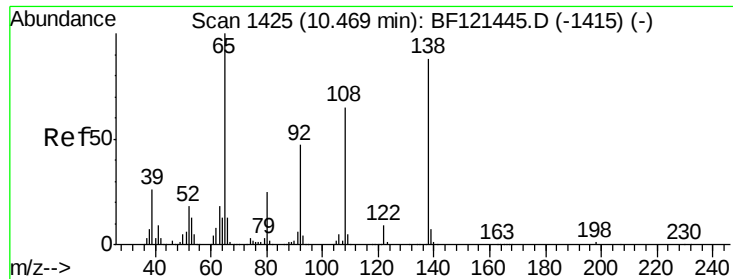


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

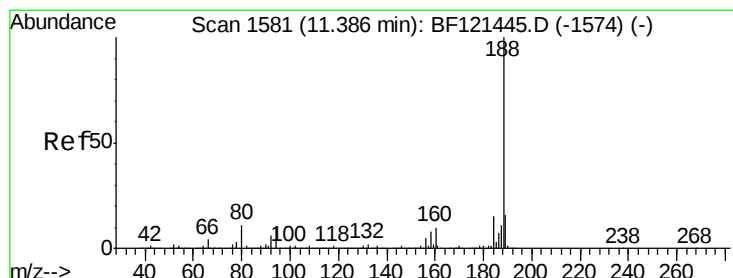
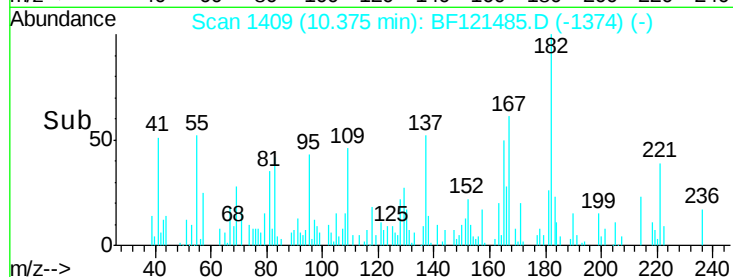
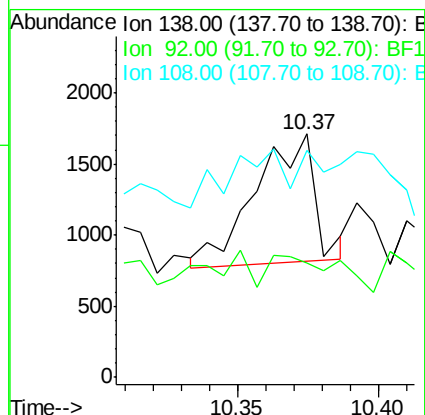
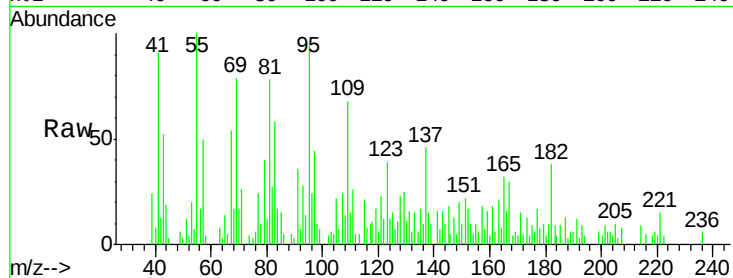




#62  
4-Nitroaniline  
Concen: 4.669 ng  
RT: 10.37 min Scan# 1409  
Delta R.T. -0.09 min  
Lab File: BF121485.D  
Acq: 31 Aug 2020 19:02

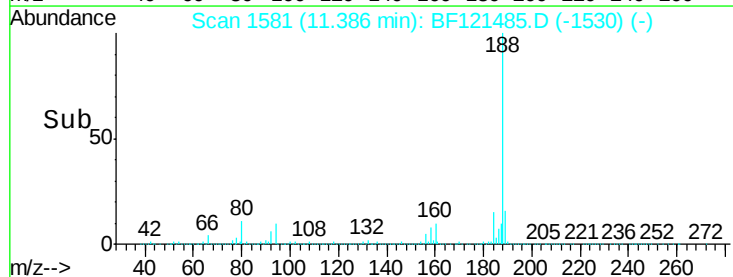
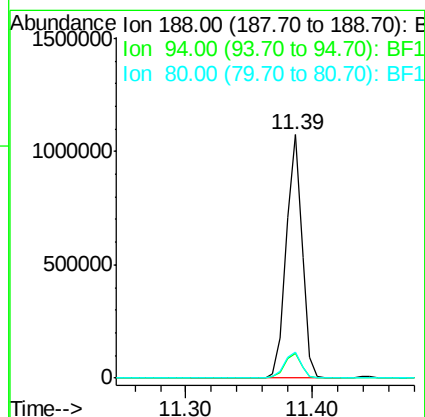
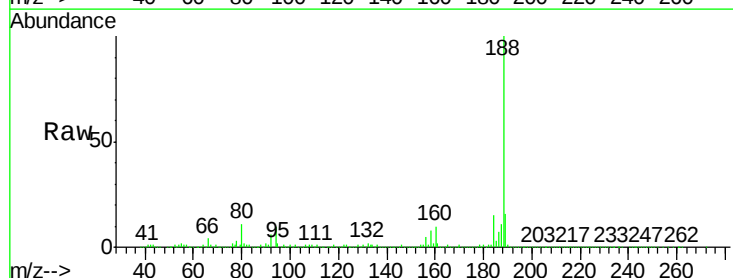
Instrument :  
BNA\_F  
ClientSampleId :  
LINDEN-JOP-BH-12-B

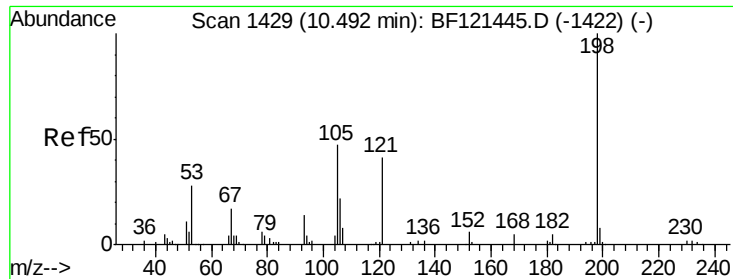
Tot Ion:138 Resp: 1320  
Ion Ratio Lower Upper  
138 100  
92 47.0 33.2 73.2  
108 93.5 53.6 93.6



#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.39 min Scan# 1581  
Delta R.T. -0.00 min  
Lab File: BF121485.D  
Acq: 31 Aug 2020 19:02

Tgt Ion:188 Resp: 925340  
Ion Ratio Lower Upper  
188 100  
94 10.4 8.3 12.5  
80 10.7 8.6 13.0

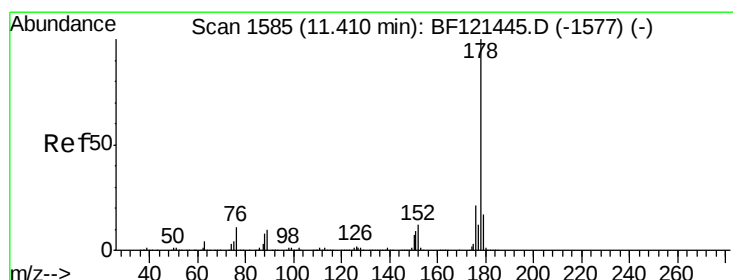
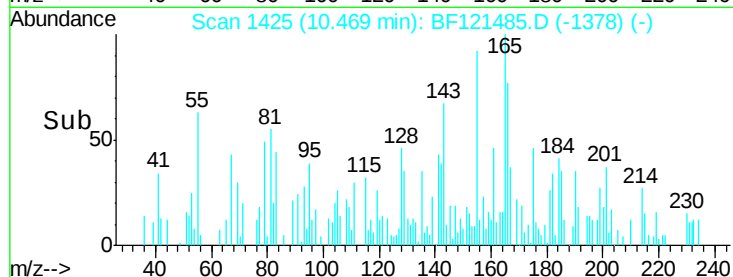
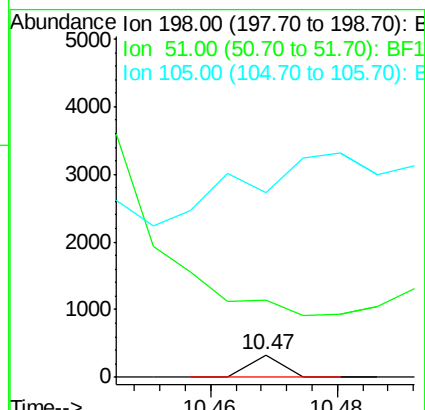
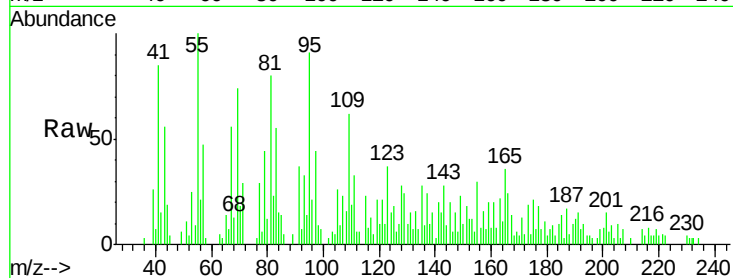




#65  
 4,6-Dinitro-2-methylphenol  
 Concen: 5.456 ng  
 RT: 10.47 min Scan# 1425  
 Delta R.T. -0.02 min  
 Lab File: BF121485.D  
 Acq: 31 Aug 2020 19:02

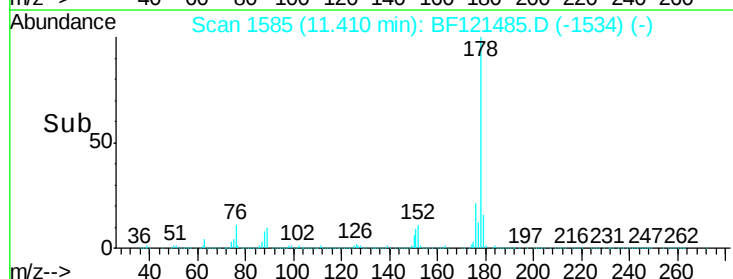
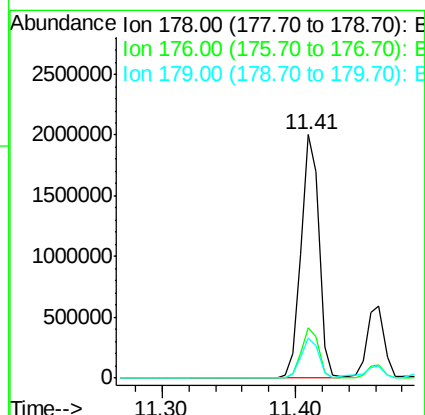
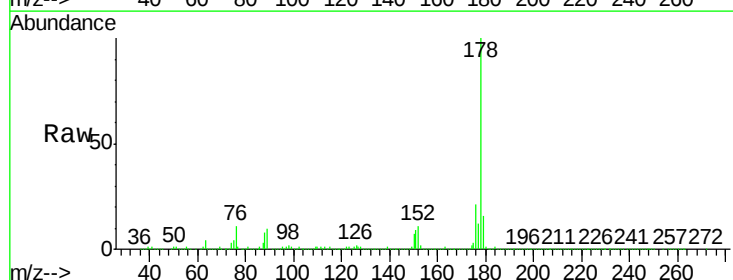
Instrument :  
 BNA\_F  
 ClientSampleId :  
 LINDEN-JOP-BH-12-B

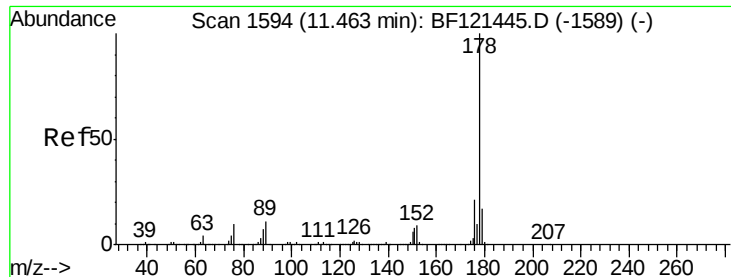
Tot Ion:198 Resp: 118  
 Ion Ratio Lower Upper  
 198 100  
 51 345.0 29.0 69.0#  
 105 819.5 29.1 69.1#



#71  
 Phenanthrene  
 Concen: 38.883 ng  
 RT: 11.41 min Scan# 1585  
 Delta R.T. -0.00 min  
 Lab File: BF121485.D  
 Acq: 31 Aug 2020 19:02

Tgt Ion:178 Resp: 1846442  
 Ion Ratio Lower Upper  
 178 100  
 176 20.7 16.9 25.3  
 179 16.5 13.4 20.0





#72

Anthracene

Concen: 10.998 ng

RT: 11.46 min Scan# 1594

Delta R.T. -0.00 min

Lab File: BF121485.D

Acq: 31 Aug 2020 19:02

Instrument :

BNA\_F

ClientSampleId :

LINDEN-JOP-BH-12-B

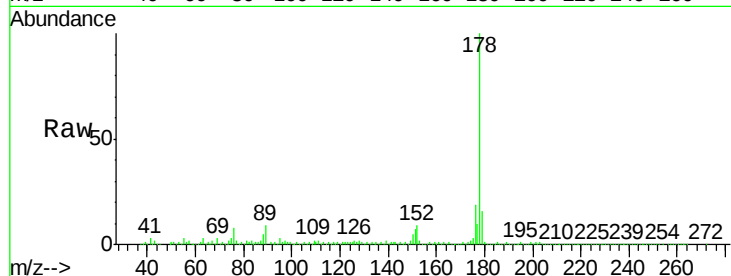
Tot Ion:178 Resp: 513669

Ion Ratio Lower Upper

178 100

176 18.7 16.7 25.1

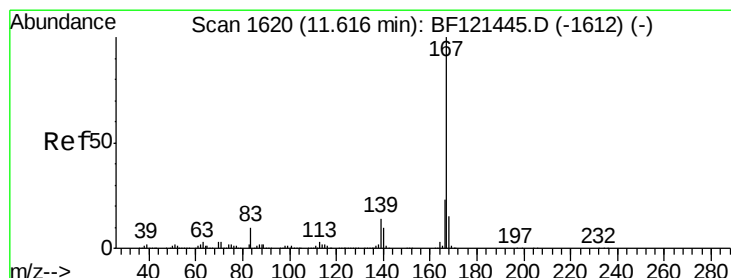
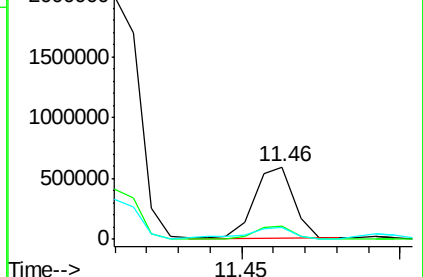
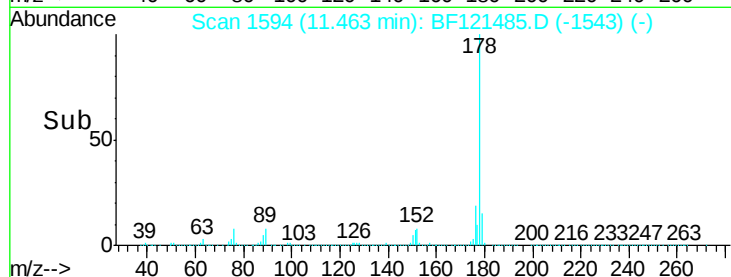
179 15.8 13.4 20.2



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



#73

Carbazole

Concen: 3.907 ng

RT: 11.61 min Scan# 1619

Delta R.T. -0.01 min

Lab File: BF121485.D

Acq: 31 Aug 2020 19:02

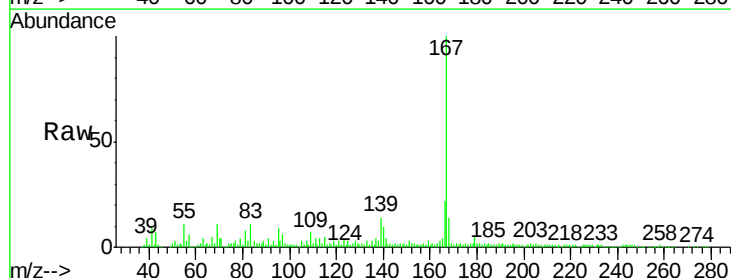
Tgt Ion:167 Resp: 175946

Ion Ratio Lower Upper

167 100

166 22.0 18.4 27.6

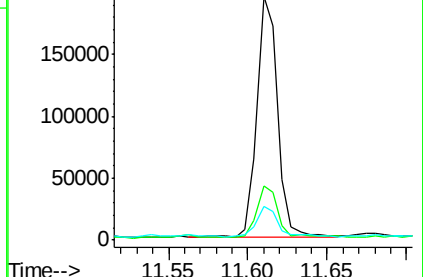
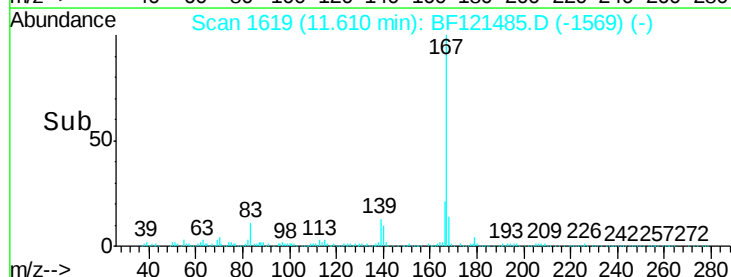
139 13.9 11.0 16.6

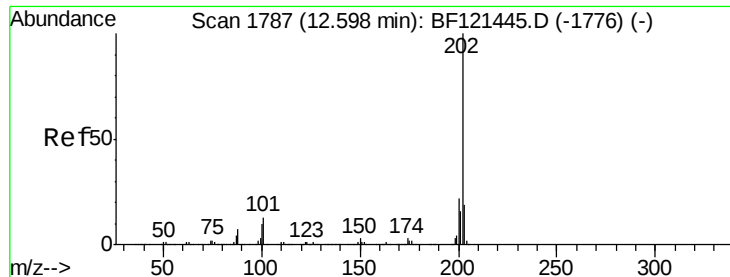


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E





#75

Fluoranthene

Concen: 52.851 ng

RT: 12.60 min Scan# 1788

Delta R.T. 0.01 min

Lab File: BF121485.D

Acq: 31 Aug 2020 19:02

Instrument :

BNA\_F

ClientSampleId :

LINDEN-JOP-BH-12-B

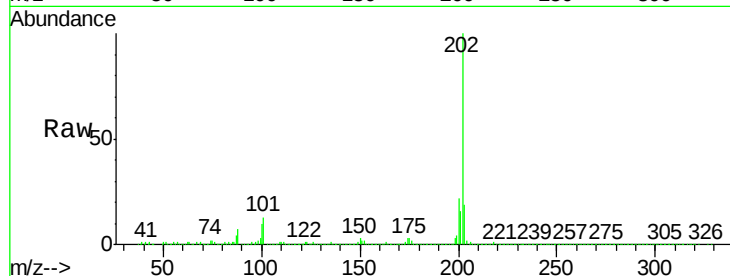
Tot Ion:202 Resp: 2704813

Ion Ratio Lower Upper

202 100

101 13.3 0.0 33.3

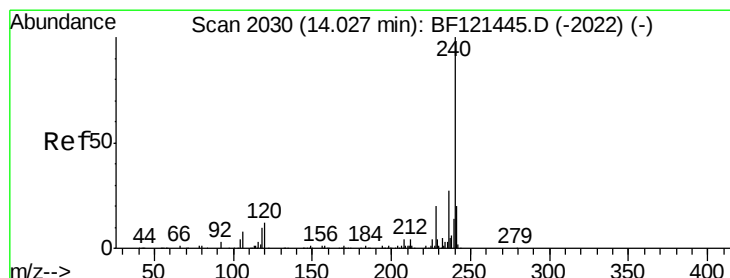
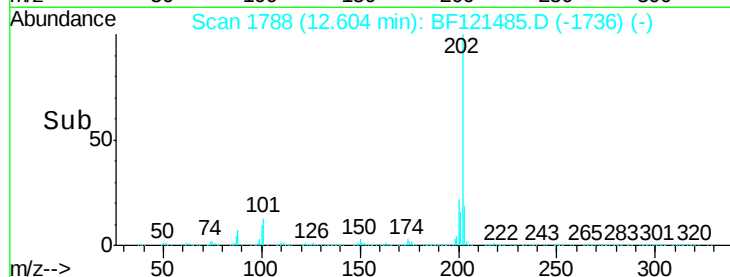
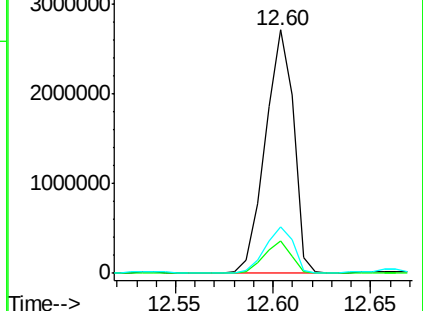
203 19.3 0.0 39.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.03 min Scan# 2031

Delta R.T. 0.01 min

Lab File: BF121485.D

Acq: 31 Aug 2020 19:02

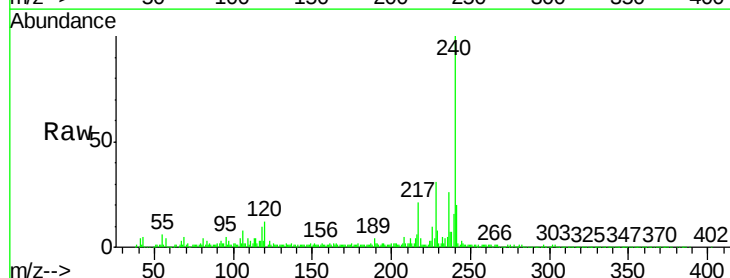
Tgt Ion:240 Resp: 641348

Ion Ratio Lower Upper

240 100

120 12.0 9.5 14.3

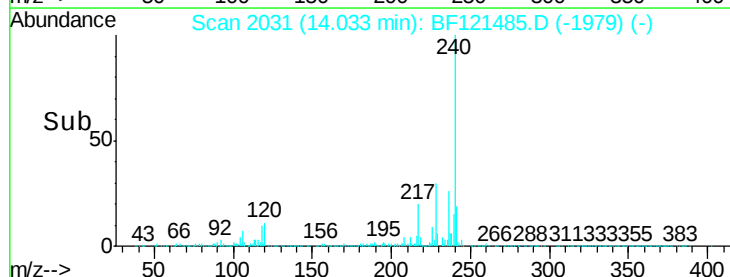
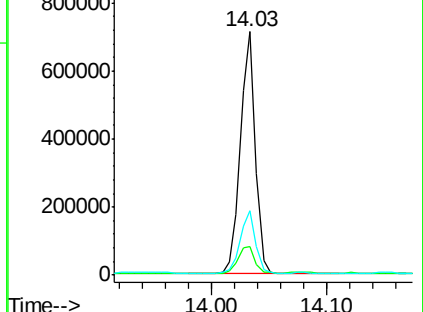
236 26.4 21.8 32.6

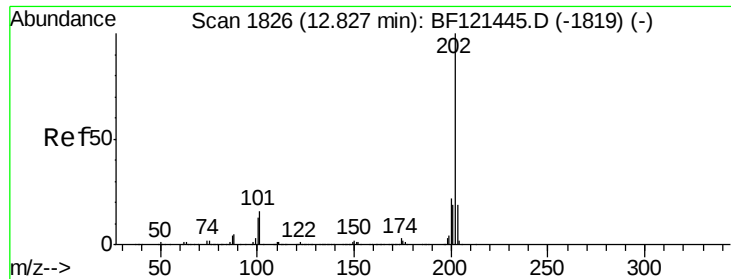


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

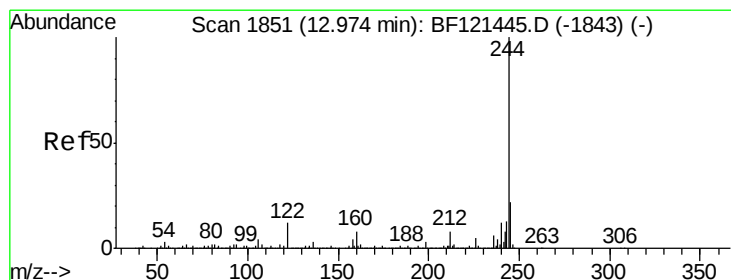
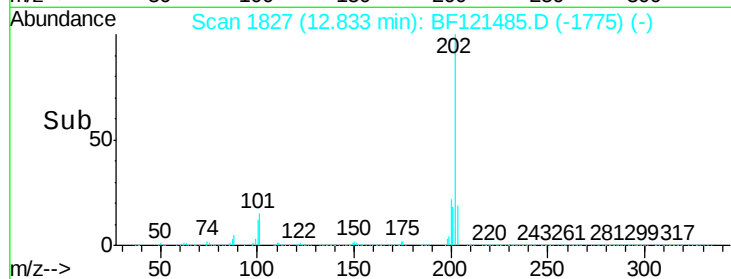
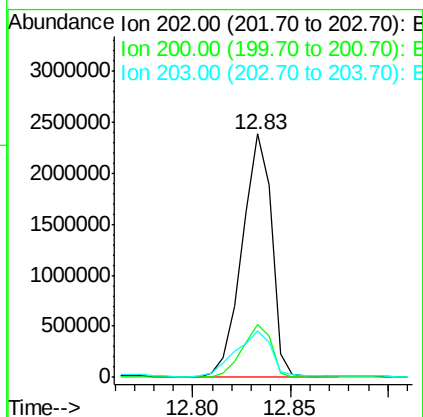
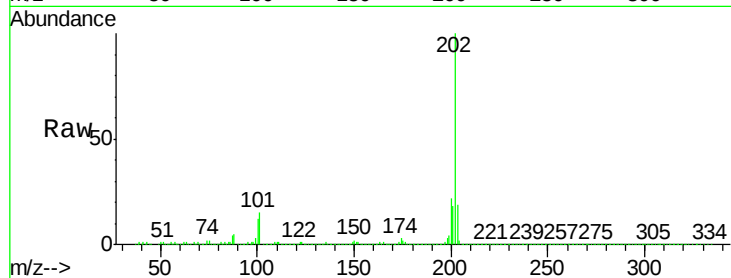




#78  
Pvrene  
Concen: 54.180 ng  
RT: 12.83 min Scan# 1827  
Delta R.T. 0.01 min  
Lab File: BF121485.D  
Acq: 31 Aug 2020 19:02

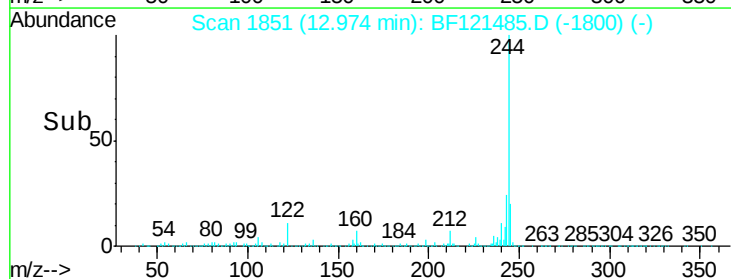
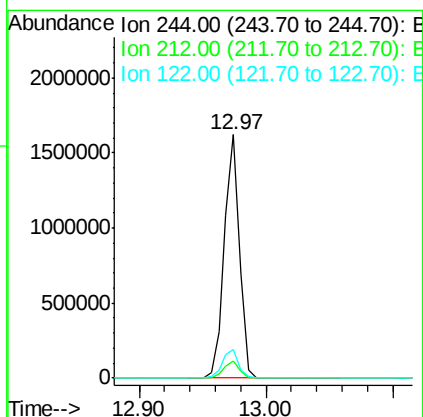
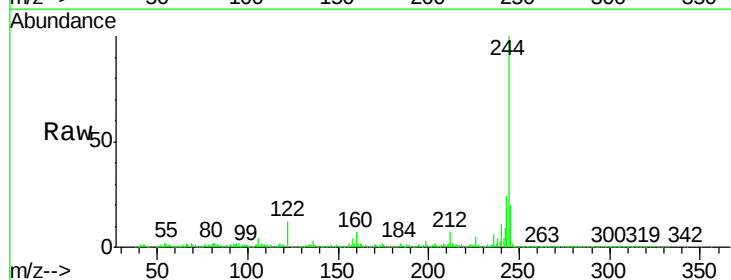
Instrument :  
BNA\_F  
ClientSampleId :  
LINDEN-JOP-BH-12-B

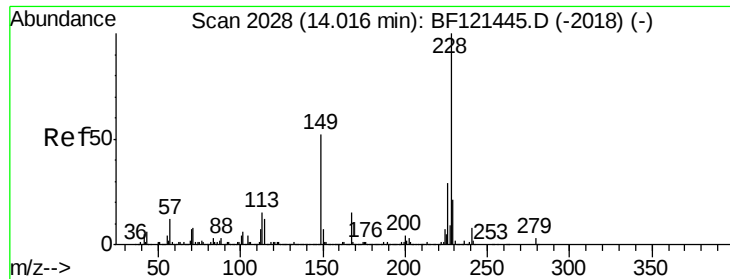
Tot Ion:202 Resp: 2481640  
Ion Ratio Lower Upper  
202 100  
200 21.9 18.0 27.0  
203 19.0 15.3 22.9



#79  
Terphenyl-d14  
Concen: 44.082 ng  
RT: 12.97 min Scan# 1851  
Delta R.T. -0.00 min  
Lab File: BF121485.D  
Acq: 31 Aug 2020 19:02

Tgt Ion:244 Resp: 1343101  
Ion Ratio Lower Upper  
244 100  
212 7.3 6.3 9.5  
122 11.6 9.5 14.3

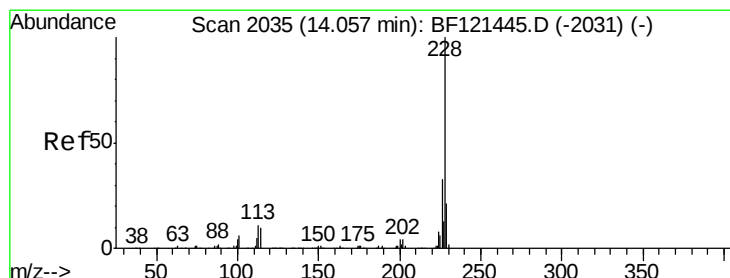
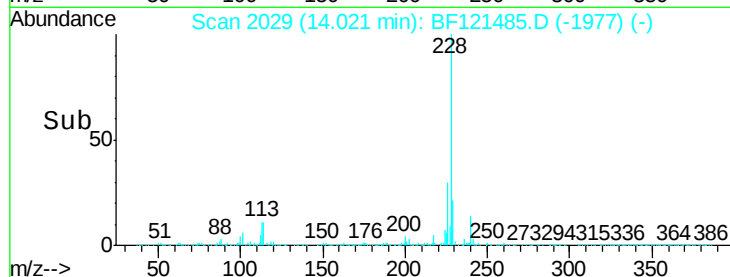
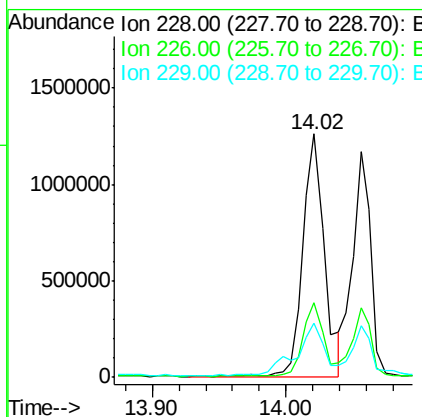
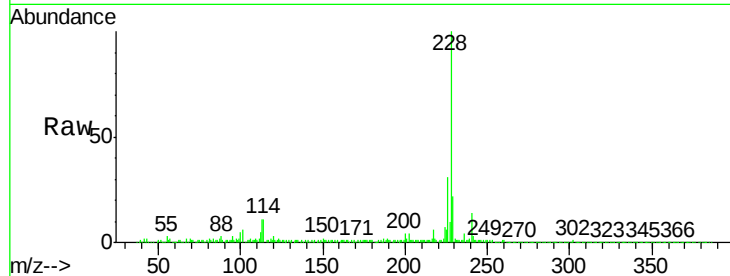




#81  
Benzo(a)anthracene  
Concen: 35.118 ng  
RT: 14.02 min Scan# 2029  
Delta R.T. 0.01 min  
Lab File: BF121485.D  
Acq: 31 Aug 2020 19:02

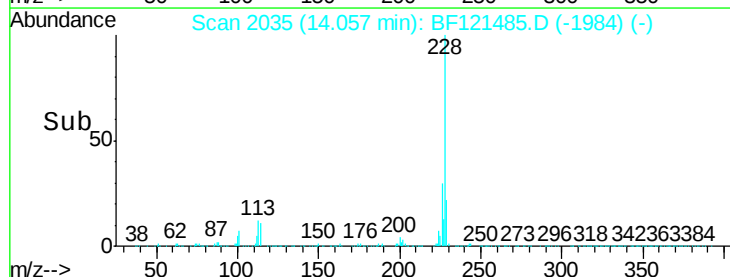
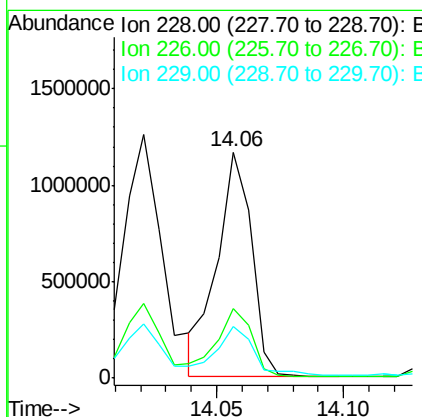
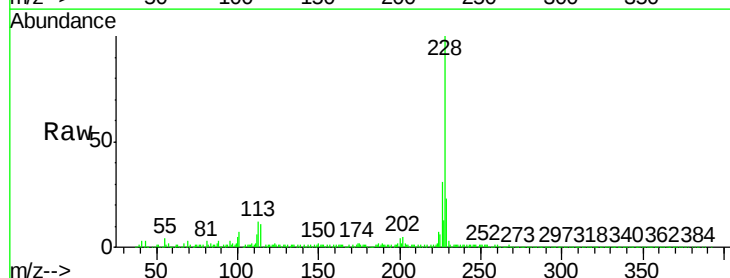
Instrument :  
BNA\_F  
ClientSampleId :  
LINDEN-JOP-BH-12-B

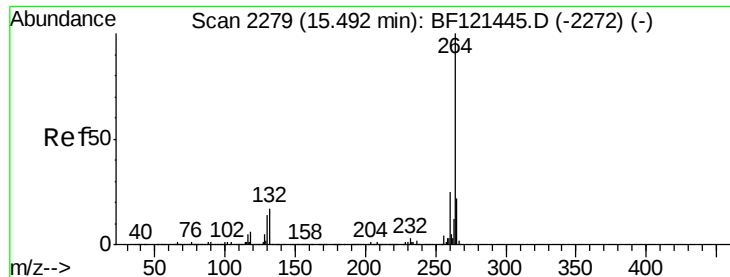
Tot Ion:228 Resp: 1374927  
Ion Ratio Lower Upper  
228 100  
226 30.8 23.0 34.4  
229 22.0 16.6 24.8



#83  
Chrysene  
Concen: 28.362 ng  
RT: 14.06 min Scan# 2035  
Delta R.T. -0.00 min  
Lab File: BF121485.D  
Acq: 31 Aug 2020 19:02

Tgt Ion:228 Resp: 1110910  
Ion Ratio Lower Upper  
228 100  
226 30.8 26.2 39.2  
229 23.1 16.6 25.0

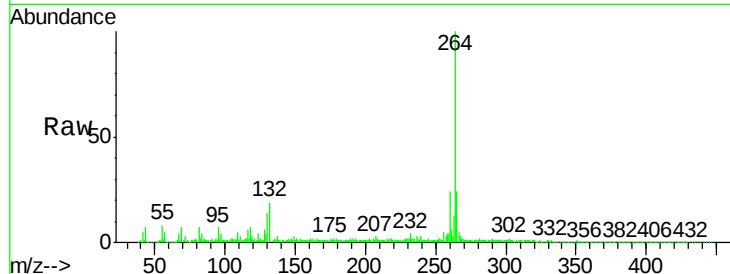




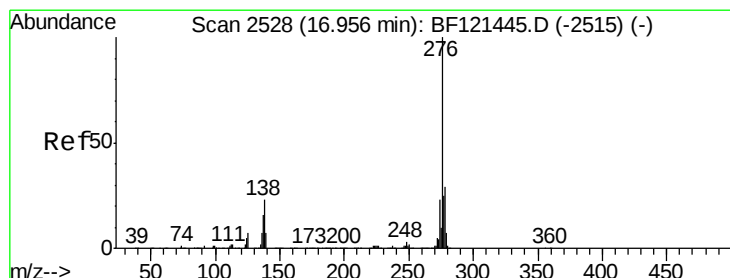
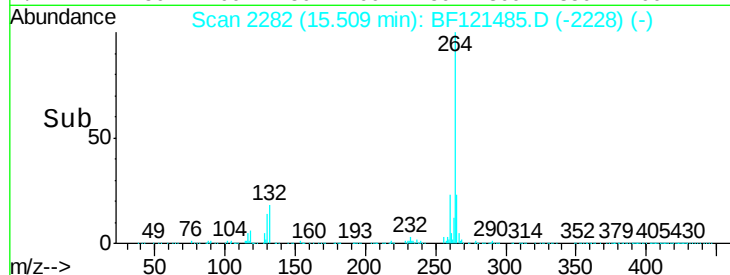
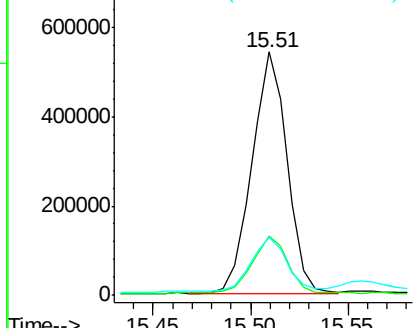
#86  
Pervlene-d12  
Concen: 20.000 ng  
RT: 15.51 min Scan# 2282  
Delta R.T. 0.02 min  
Lab File: BF121485.D  
Acq: 31 Aug 2020 19:02

Instrument :  
BNA\_F  
ClientSampleId :  
LINDEN-JOP-BH-12-B

|             |              |
|-------------|--------------|
| Tot Ion:264 | Resp: 668094 |
| Ion Ratio   | Lower Upper  |
| 264 100     |              |
| 260 24.2    | 19.6 29.4    |
| 265 23.7    | 17.8 26.6    |

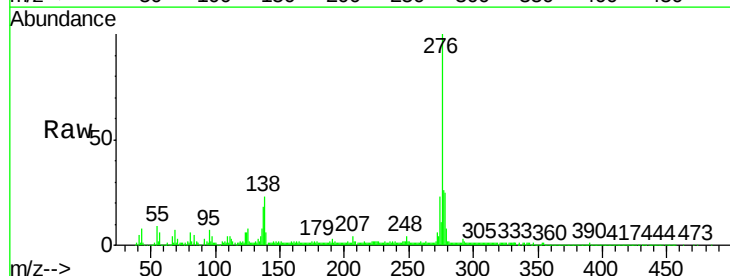


Abundance Ion 264.00 (263.70 to 264.70): E  
Ion 260.00 (259.70 to 260.70): E  
Ion 265.00 (264.70 to 265.70): E

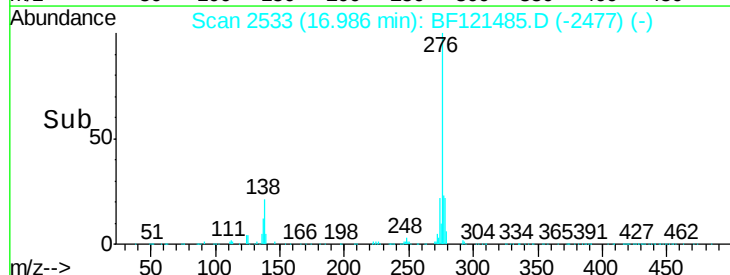
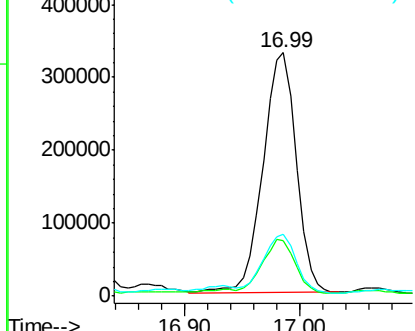


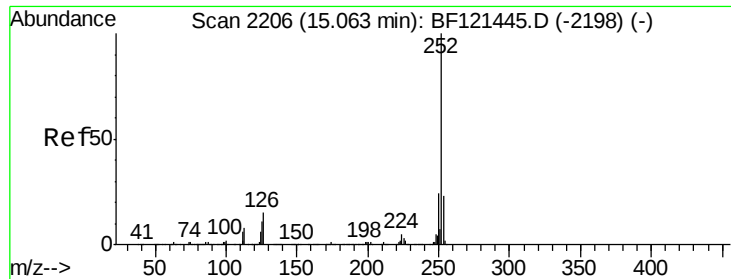
#87  
Indeno(1,2,3-cd)pyrene  
Concen: 16.066 ng  
RT: 16.99 min Scan# 2533  
Delta R.T. 0.03 min  
Lab File: BF121485.D  
Acq: 31 Aug 2020 19:02

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion:276 | Resp: | 660428 |
| Ion | Ratio   | Lower | Upper  |
| 276 | 100     |       |        |
| 138 | 23.0    | 20.6  | 31.0   |
| 277 | 24.5    | 20.5  | 30.7   |



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

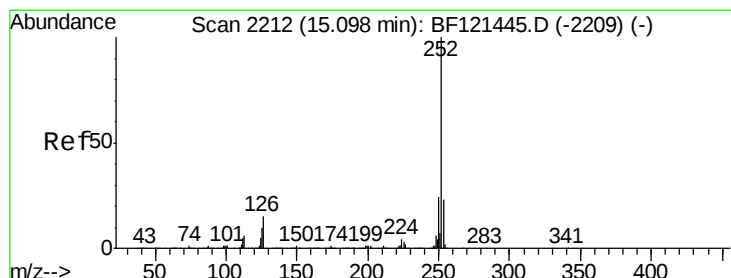
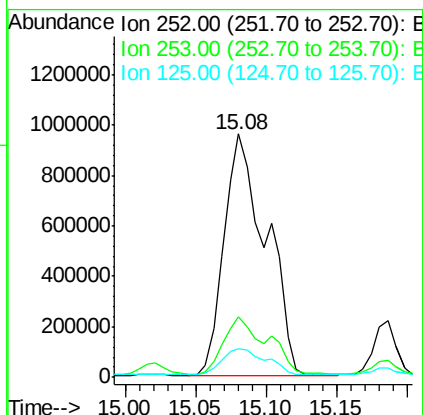
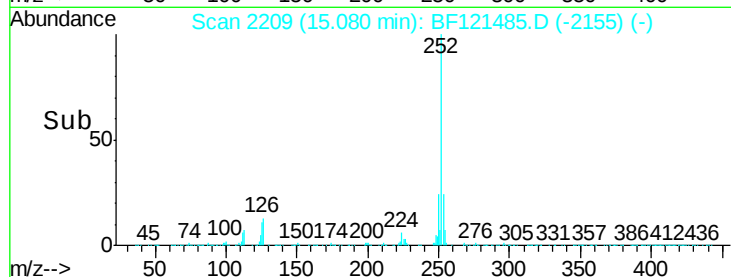
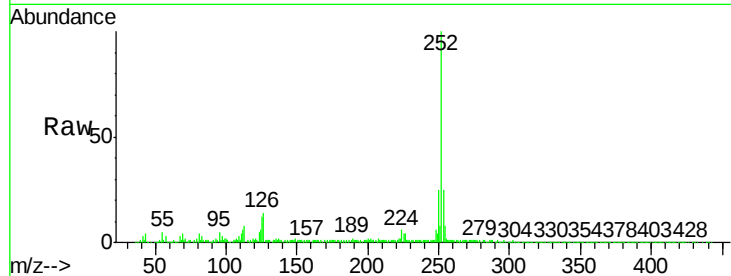




#88  
Benzo(b)fluoranthene  
Concen: 45.846 ng  
RT: 15.08 min Scan# 2209  
Delta R.T. 0.02 min  
Lab File: BF121485.D  
Acq: 31 Aug 2020 19:02

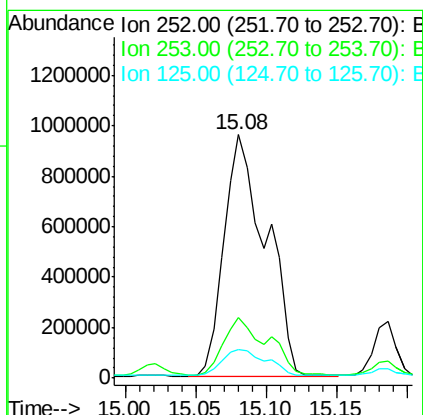
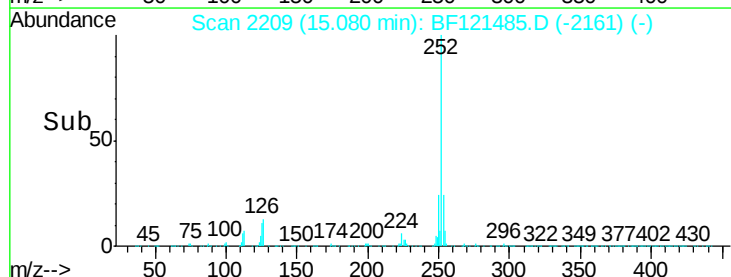
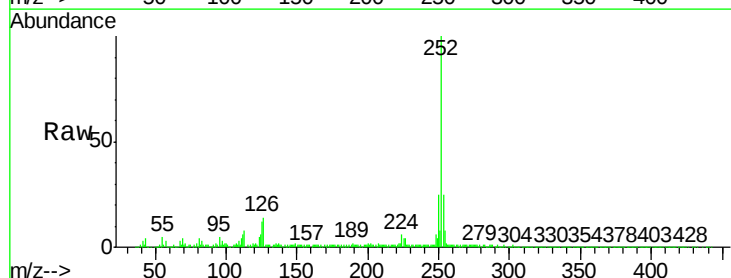
Instrument :  
BNA\_F  
ClientSampleId :  
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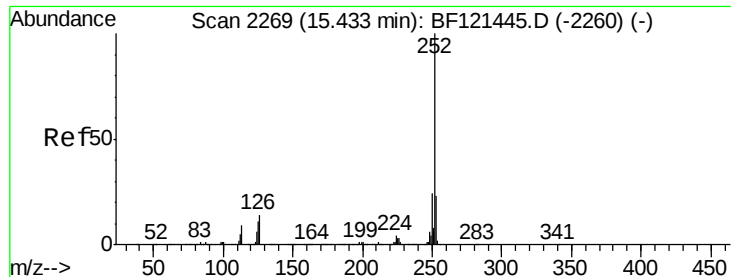
Tot Ion:252 Resp: 1992416  
Ion Ratio Lower Upper  
252 100  
253 24.7 18.3 27.5  
125 12.0 9.2 13.8



#89  
Benzo(k)fluoranthene  
Concen: 49.289 ng  
RT: 15.08 min Scan# 2209  
Delta R.T. -0.02 min  
Lab File: BF121485.D  
Acq: 31 Aug 2020 19:02

Tgt Ion:252 Resp: 1992416  
Ion Ratio Lower Upper  
252 100  
253 24.7 18.3 27.5  
125 12.0 8.5 12.7

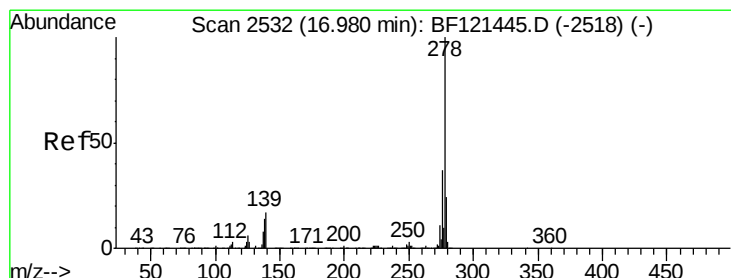
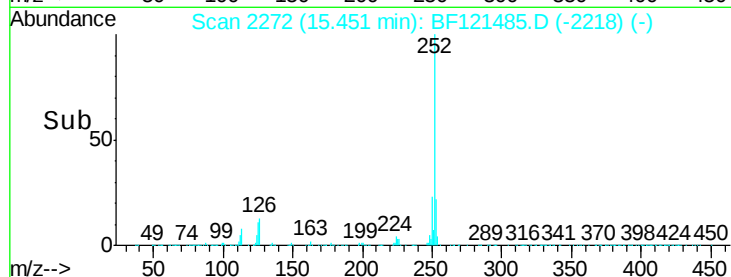
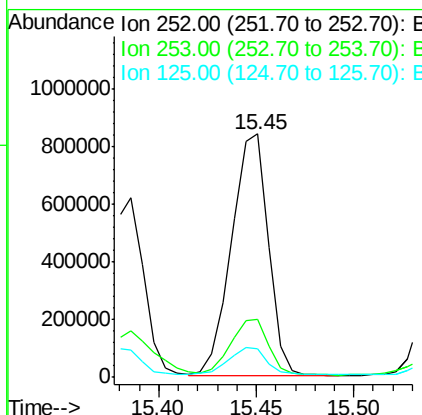
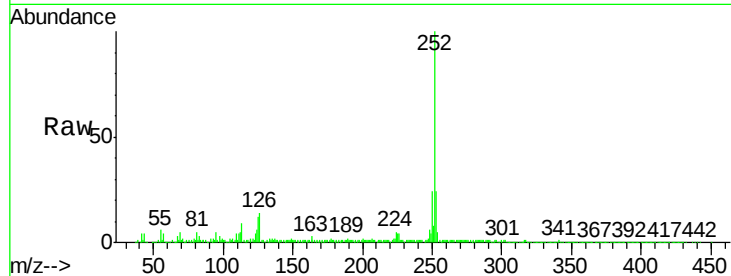




#90  
Benzo(a)pyrene  
Concen: 28.033 ng  
RT: 15.45 min Scan# 2272  
Delta R.T. 0.02 min  
Lab File: BF121485.D  
Acq: 31 Aug 2020 19:02

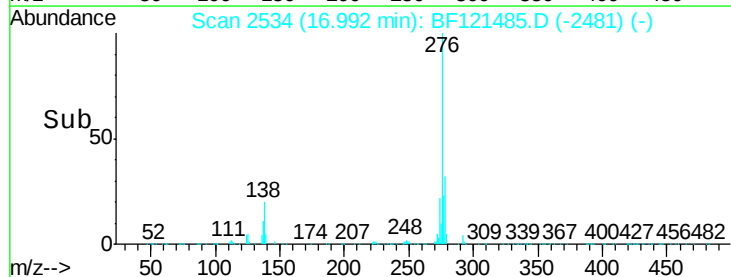
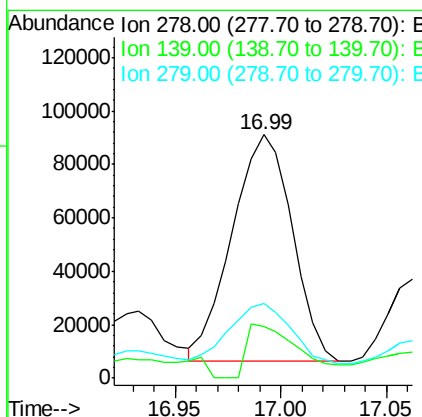
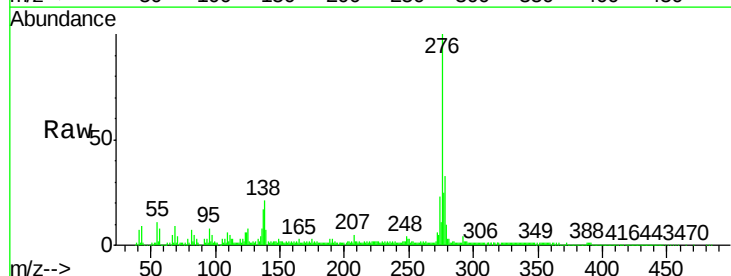
Instrument :  
BNA\_F  
ClientSampleId :  
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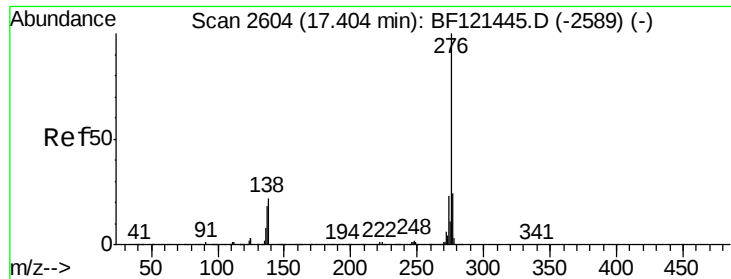
Tot Ion:252 Resp: 1095512  
Ion Ratio Lower Upper  
252 100  
253 23.9 18.0 27.0  
125 11.9 9.0 13.4



#91  
Dibenzo(a,h)anthracene  
Concen: 4.985 ng  
RT: 16.99 min Scan# 2534  
Delta R.T. 0.01 min  
Lab File: BF121485.D  
Acq: 31 Aug 2020 19:02

Tgt Ion:278 Resp: 167733  
Ion Ratio Lower Upper  
278 100  
139 21.1 13.3 19.9#  
279 30.5 19.4 29.0#

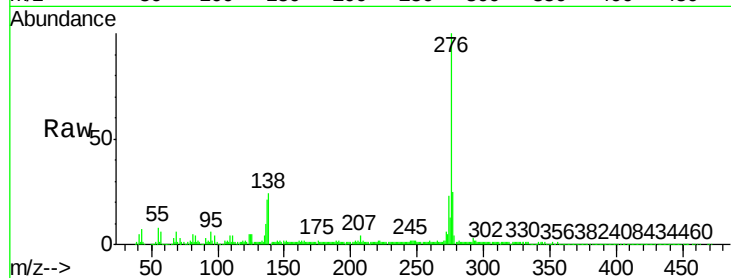




#92  
 Benzo(a,h,i)perylene  
 Concen: 20.667 ng  
 RT: 17.43 min Scan# 2608  
 Delta R.T. 0.02 min  
 Lab File: BF121485.D  
 Acq: 31 Aug 2020 19:02

Instrument :  
 BNA\_F  
 ClientSampleId :  
 LINDEN-JOP-BH-12-B

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 24.6  | 18.9  | 28.3  |
| 138     | 23.7  | 17.4  | 26.0  |



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

