

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061322\  
 Data File : BF128780.D  
 Acq On : 13 Jun 2022 13:11  
 Operator : CG\JU  
 Sample : N3203-01DL 5X  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GATE-6-JET-GROUT-SPOILSDL

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 06/14/2022  
 Supervised By : Jagrut Upadhyay 06/14/2022

Quant Time: Jun 13 13:59:19 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060222.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 08 14:28:39 2022  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.804  | 152  | 88352    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.087  | 136  | 337318   | 20.000 | ng    | -0.01    |
| 39) Acenaphthene-d10        | 9.845  | 164  | 198328   | 20.000 | ng    | -0.01    |
| 64) Phenanthrene-d10        | 11.333 | 188  | 377197   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 13.980 | 240  | 282256   | 20.000 | ng    | # 0.00   |
| 86) Perylene-d12            | 15.445 | 264  | 200271   | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.457  | 112  | 7990     | 1.440  | ng    | 0.00     |
| 7) Phenol-d6                | 6.463  | 99   | 54183    | 8.002  | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.363  | 82   | 86709    | 11.968 | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.639 | 330  | 458      | 0.195  | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.163  | 172  | 185980   | 13.136 | ng    | -0.01    |
| 79) Terphenyl-d14           | 12.922 | 244  | 234338   | 14.426 | ng    | -0.01    |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 31) Naphthalene             | 8.110  | 128  | 628862   | 36.327 | ng    | 99       |
| 37) 2-Methylnaphthalene     | 8.804  | 142  | 276343   | 25.097 | ng    | 98       |
| 38) 1-Methylnaphthalene     | 8.898  | 142  | 200229   | 18.821 | ng    | 92       |
| 46) 1,1'-Biphenyl           | 9.263  | 154  | 34244    | 2.301  | ng    | 96       |
| 52) Acenaphthene            | 9.875  | 154  | 59384    | 5.246  | ng    | 94       |
| 58) Fluorene                | 10.392 | 166  | 96070    | 7.614  | ng    | 99       |
| 71) Phenanthrene            | 11.357 | 178  | 366003   | 19.345 | ng    | 98       |
| 72) Anthracene              | 11.410 | 178  | 116920   | 6.244  | ng    | 98       |
| 75) Fluoranthene            | 12.551 | 202  | 114341   | 5.782  | ng    | 95       |
| 78) Pyrene                  | 12.780 | 202  | 173712   | 8.272  | ng    | 99       |
| 81) Benzo(a)anthracene      | 13.969 | 228  | 62570m   | 3.556  | ng    |          |
| 83) Chrysene                | 14.004 | 228  | 52803    | 3.148  | ng    | 99       |
| 88) Benzo(b)fluoranthene    | 15.021 | 252  | 33781m   | 2.640  | ng    |          |
| 90) Benzo(a)pyrene          | 15.380 | 252  | 27956    | 2.779  | ng    | 97       |
| -----                       |        |      |          |        |       |          |

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

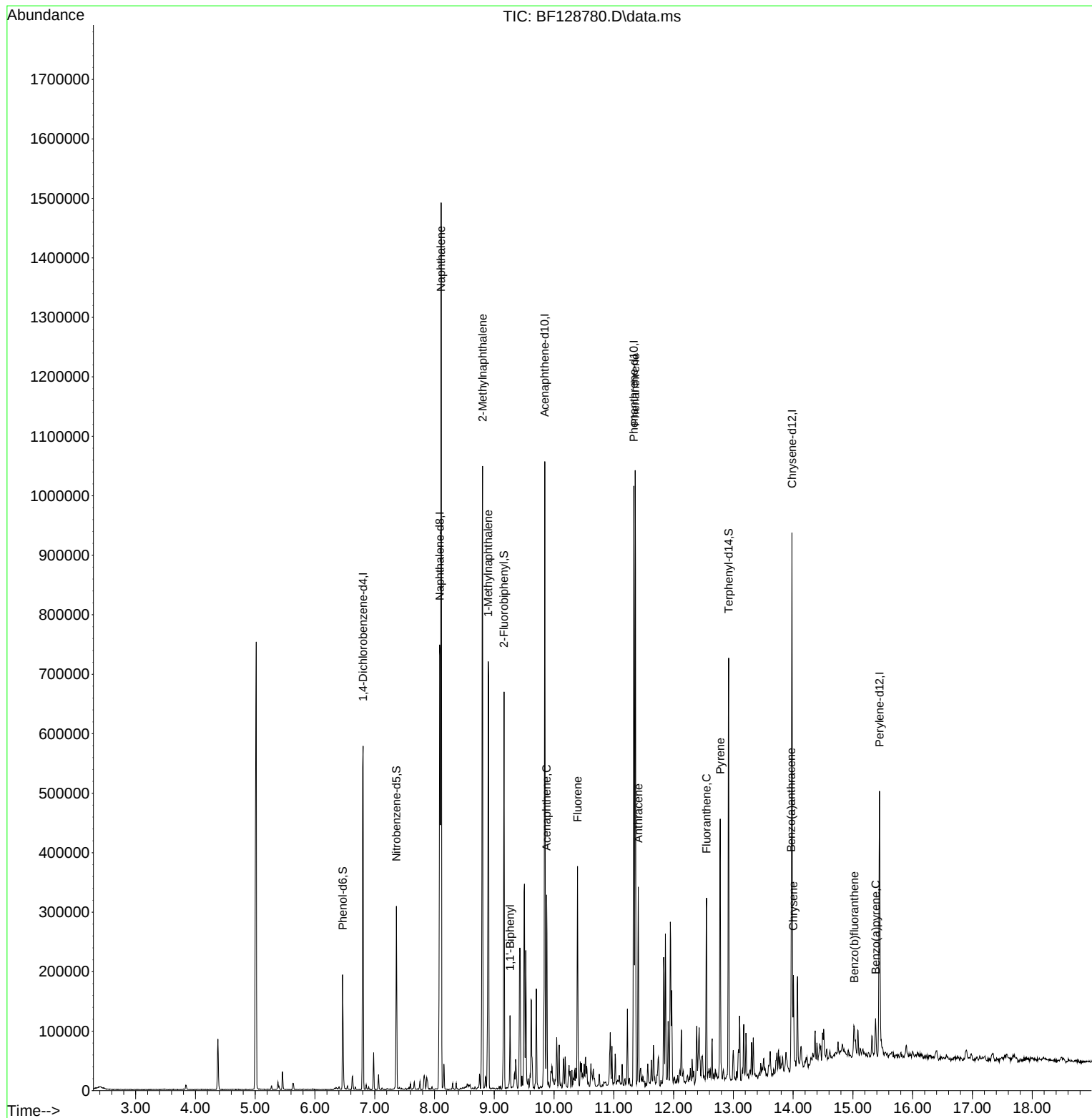
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061322\  
Data File : BF128780.D  
Acq On : 13 Jun 2022 13:11  
Operator : CG\JU  
Sample : N3203-01DL 5X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GATE-6-JET-GROUT-SPOILSDL

Quant Time: Jun 13 13:59:19 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060222.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jun 08 14:28:39 2022  
Response via : Initial Calibration

Manual Integrations  
APPROVED

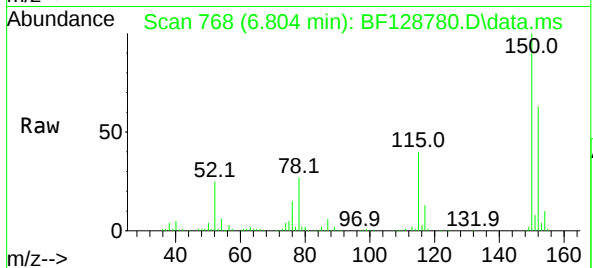
Reviewed By : Christian Giraldo 06/14/2022  
Supervised By : Jagrut Upadhyay 06/14/2022





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.804 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: BF128780.D  
Acq: 13 Jun 2022 13:11

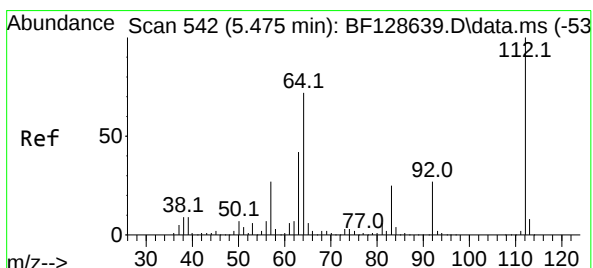
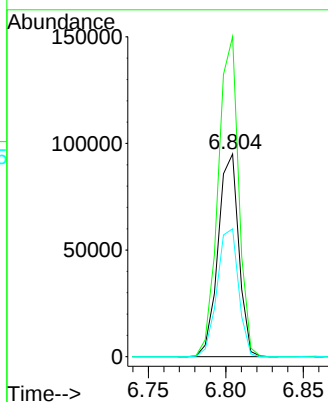
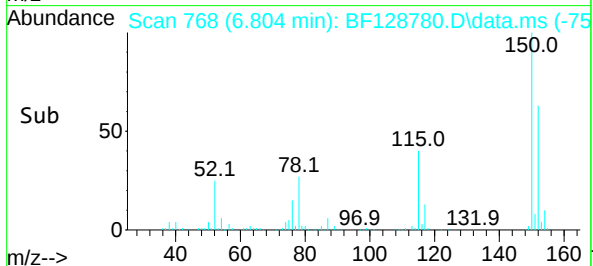
Instrument :  
BNA\_F  
ClientSampleId :  
GATE-6-JET-GROUT-SPOILSDL



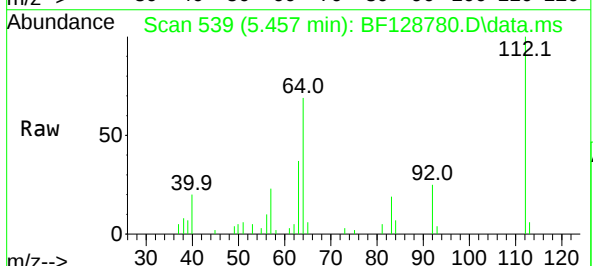
Tgt Ion:152 Resp: 88352  
Ion Ratio Lower Upper  
152 100  
150 157.8 123.7 185.5  
115 63.0 49.9 74.9

Manual Integrations  
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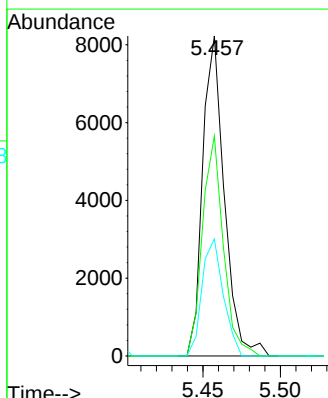
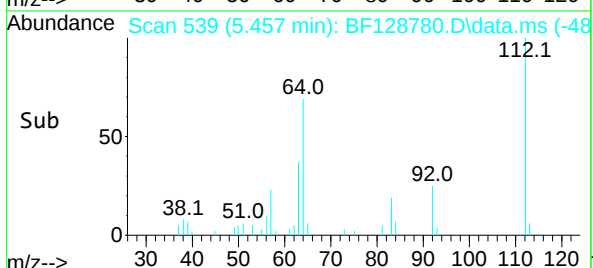
Reviewed By :Christian Giraldo 06/14/2022  
Supervised By :Jagrut Upadhyay 06/14/2022



#5  
2-Fluorophenol  
Concen: 1.440 ng  
RT: 5.457 min Scan# 539  
Delta R.T. -0.000 min  
Lab File: BF128780.D  
Acq: 13 Jun 2022 13:11



Tgt Ion:112 Resp: 7990  
Ion Ratio Lower Upper  
112 100  
64 68.7 53.3 79.9  
63 36.6 28.0 42.0





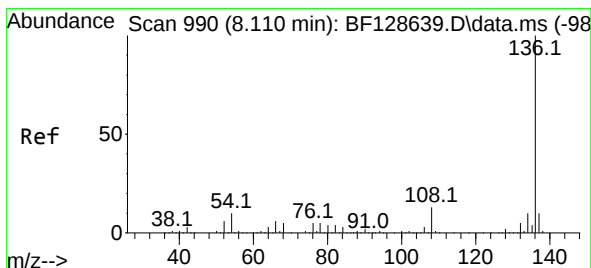
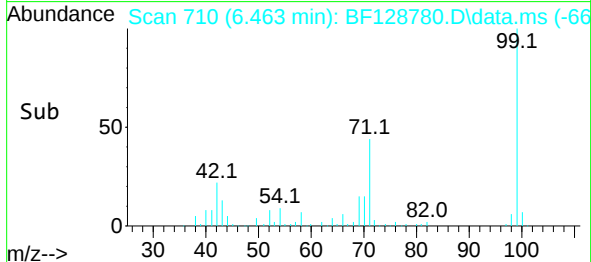
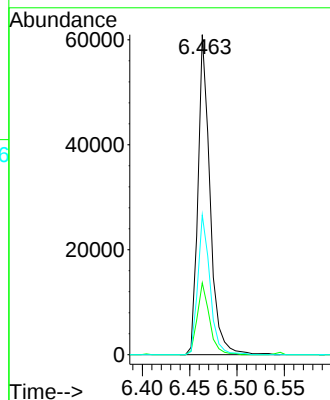
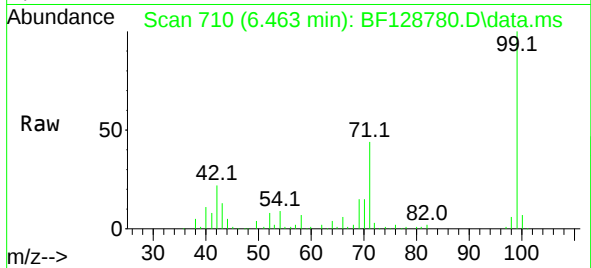
#7  
Phenol-d6  
Concen: 8.002 ng  
RT: 6.463 min Scan# 716  
Delta R.T. -0.018 min  
Lab File: BF128780.D  
Acq: 13 Jun 2022 13:11

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Tgt Ion: 99 Resp: 5418  
Ion Ratio Lower Upper  
99 100  
42 22.5 17.3 25.9  
71 43.6 28.9 43.3

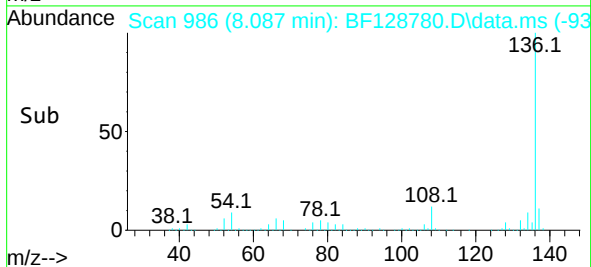
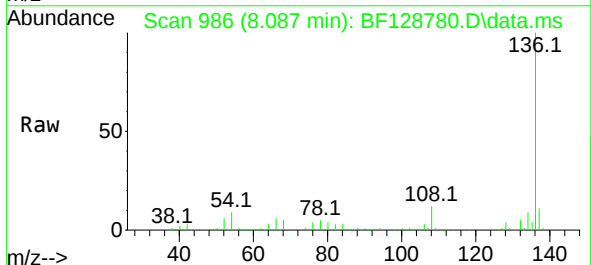
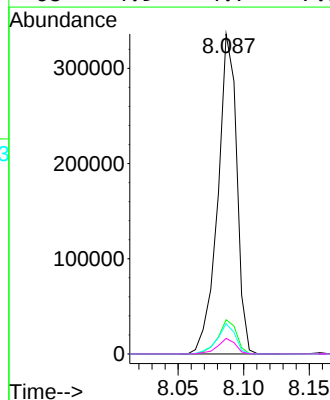
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Supervised By :Jagrut Upadhyay 06/14/2022



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.087 min Scan# 986  
Delta R.T. -0.012 min  
Lab File: BF128780.D  
Acq: 13 Jun 2022 13:11

Tgt Ion:136 Resp: 337318  
Ion Ratio Lower Upper  
136 100  
137 10.7 8.8 13.2  
54 9.5 7.5 11.3  
68 4.9 4.7 7.1





#23

Nitrobenzene-d5

Concen: 11.968 ng

RT: 7.363 min Scan# 80

Delta R.T. -0.018 min

Lab File: BF128780.D

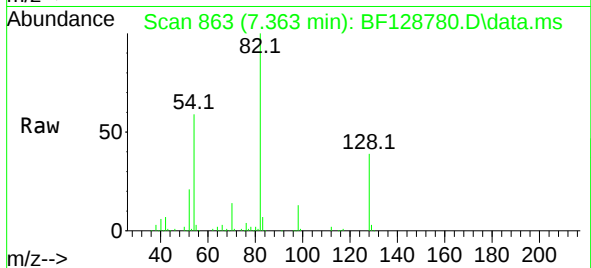
Acq: 13 Jun 2022 13:11

Instrument :

BNA\_F

ClientSampleId :

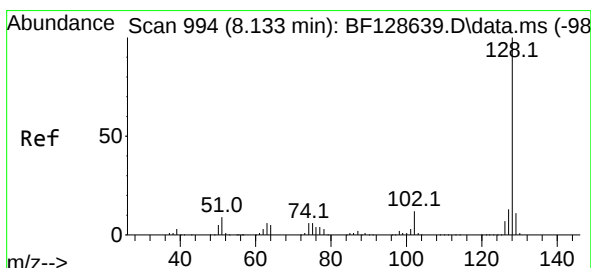
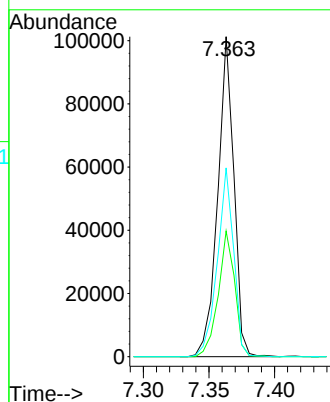
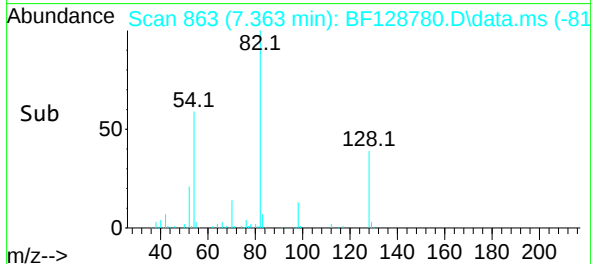
GATE-6-JET-GROUT-SPOILSDL



|             |                |
|-------------|----------------|
| Tgt Ion: 82 | Resp: 86709    |
| Ion Ratio   | Lower Upper    |
| 82          | 100            |
| 128         | 39.3 34.0 51.0 |
| 54          | 59.0 46.9 70.3 |

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Reviewed By :Christian Giraldo 06/14/2022  
Supervised By :Jagrut Upadhyay 06/14/2022



#31

Naphthalene

Concen: 36.327 ng

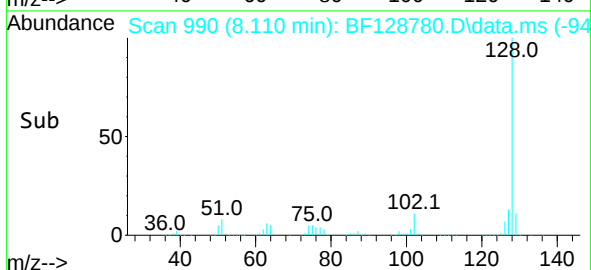
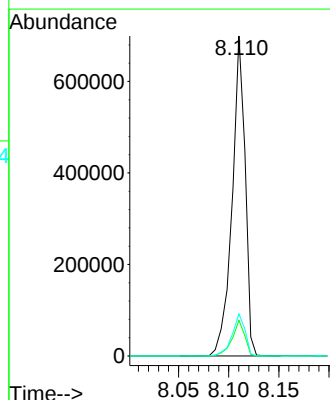
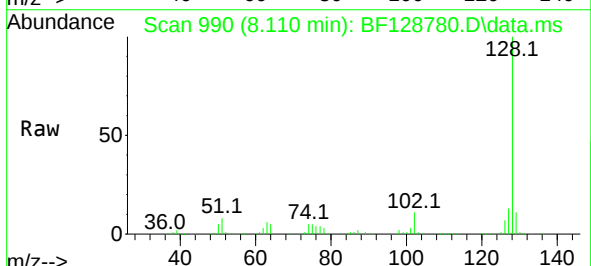
RT: 8.110 min Scan# 990

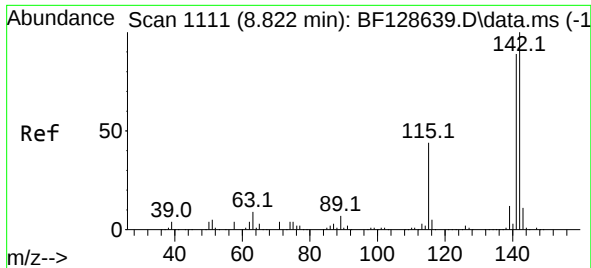
Delta R.T. -0.012 min

Lab File: BF128780.D

Acq: 13 Jun 2022 13:11

|             |                |
|-------------|----------------|
| Tgt Ion:128 | Resp: 628862   |
| Ion Ratio   | Lower Upper    |
| 128         | 100            |
| 129         | 11.2 9.2 13.8  |
| 127         | 13.2 10.5 15.7 |





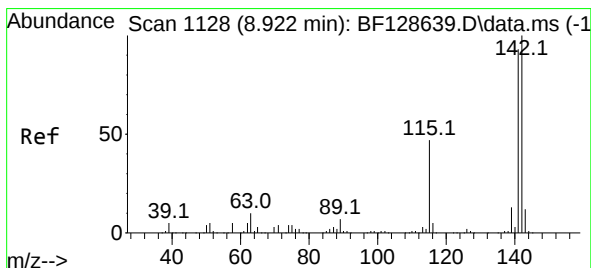
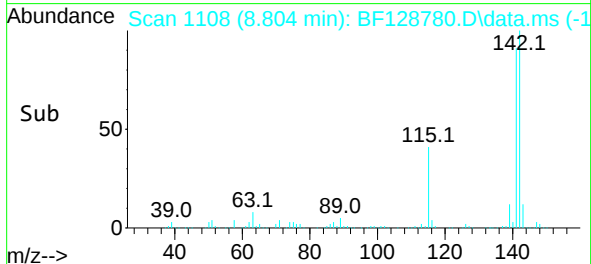
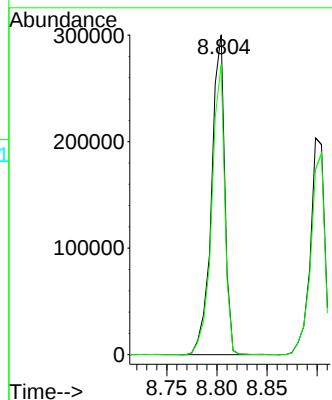
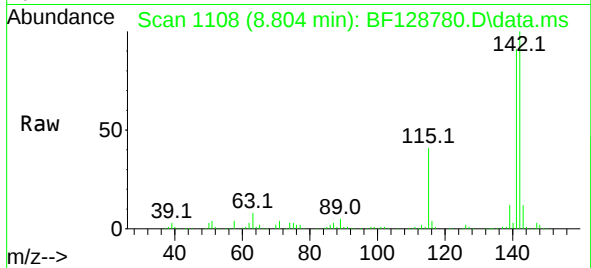
#37  
2-Methylnaphthalene  
Concen: 25.097 ng  
RT: 8.804 min Scan# 1108  
Delta R.T. -0.006 min  
Lab File: BF128780.D  
Acq: 13 Jun 2022 13:11

Instrument :  
BNA\_F  
ClientSampleId :  
GATE-6-JET-GROUT-SPOILSDL

Tgt Ion:142 Resp: 27634  
Ion Ratio Lower Upper  
142 100  
141 90.6 71.0 106.4

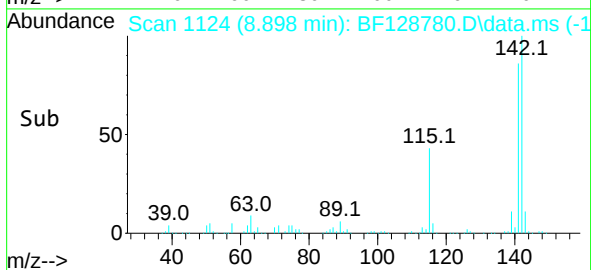
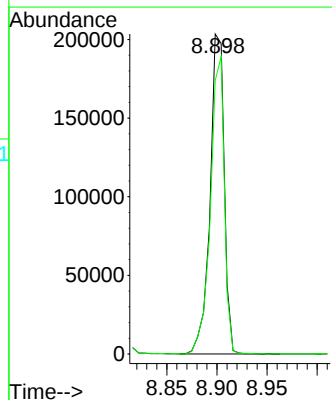
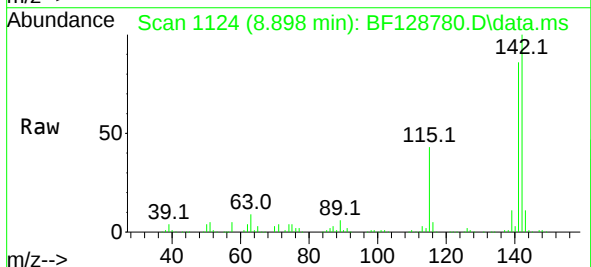
Manual Integrations  
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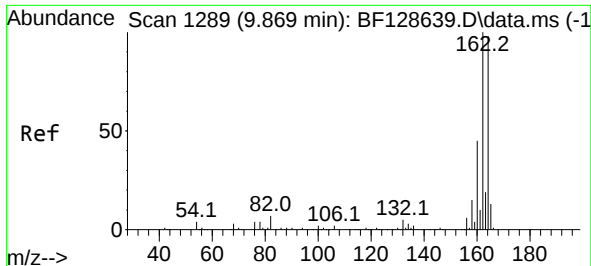
Reviewed By :Christian Giraldo 06/14/2022  
Supervised By :Jagrut Upadhyay 06/14/2022



#38  
1-Methylnaphthalene  
Concen: 18.821 ng  
RT: 8.898 min Scan# 1124  
Delta R.T. -0.012 min  
Lab File: BF128780.D  
Acq: 13 Jun 2022 13:11

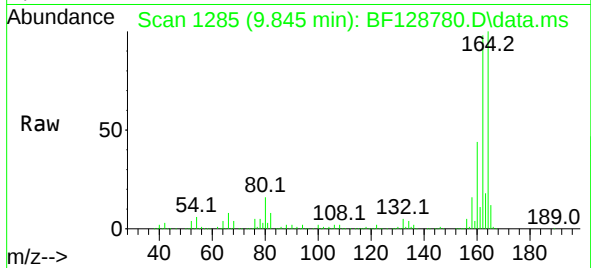
Tgt Ion:142 Resp: 200229  
Ion Ratio Lower Upper  
142 100  
141 85.5 74.2 111.4





#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.845 min Scan# 1289  
Delta R.T. -0.012 min  
Lab File: BF128780.D  
Acq: 13 Jun 2022 13:11

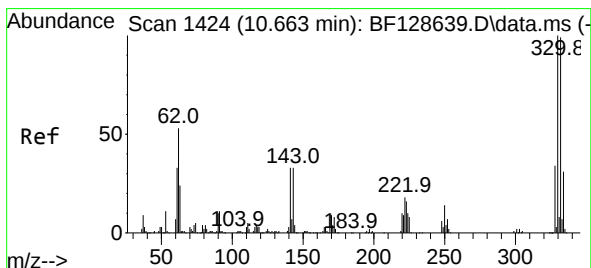
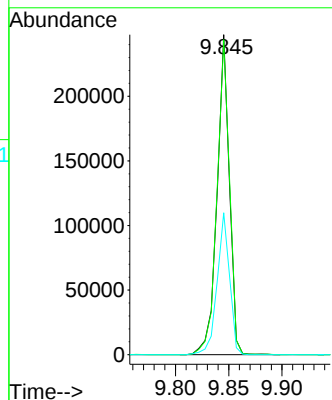
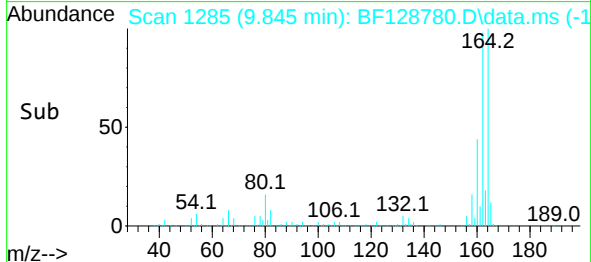
Instrument :  
BNA\_F  
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GATE-6-JET-GROUT-SPOILSDL



Tgt Ion:164 Resp: 198328  
Ion Ratio Lower Upper  
164 100  
162 98.5 79.5 119.3  
160 44.4 34.2 51.4

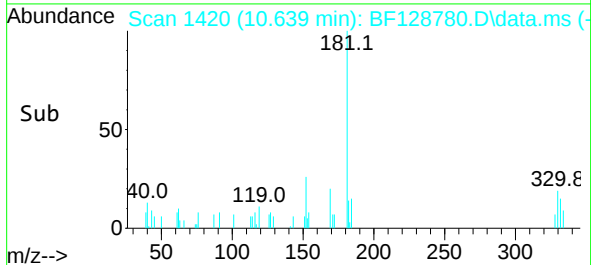
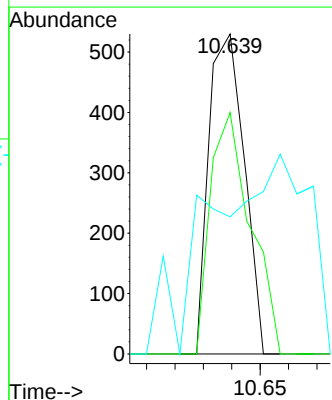
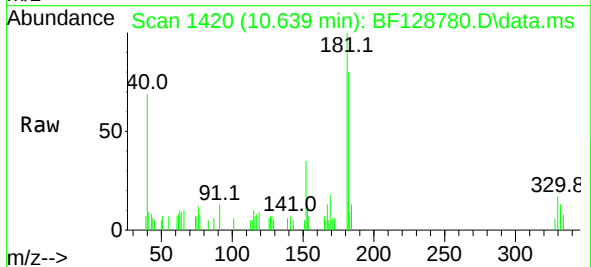
Manual Integrations  
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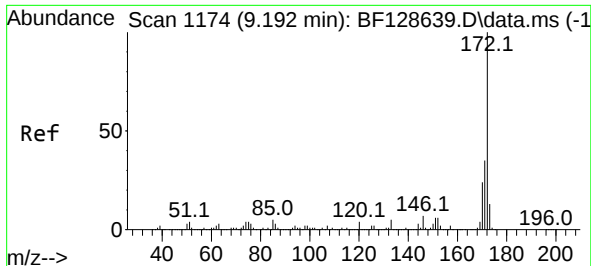
Reviewed By :Christian Giraldo 06/14/2022  
Supervised By :Jagrut Upadhyay 06/14/2022



#42  
2,4,6-Tribromophenol  
Concen: 0.195 ng  
RT: 10.639 min Scan# 1420  
Delta R.T. -0.012 min  
Lab File: BF128780.D  
Acq: 13 Jun 2022 13:11

Tgt Ion:330 Resp: 458  
Ion Ratio Lower Upper  
330 100  
332 85.8 76.8 115.2  
141 68.8 28.0 42.0#





#45

2-Fluorobiphenyl

Concen: 13.136 ng

RT: 9.163 min Scan# 1169

Delta R.T. -0.012 min

Lab File: BF128780.D

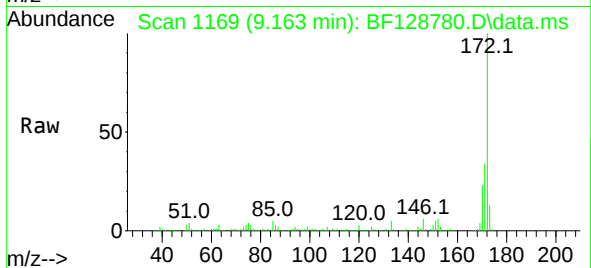
Acq: 13 Jun 2022 13:11

Instrument :

BNA\_F

ClientSampleId :

GATE-6-JET-GROUT-SPOILSDL



Tgt Ion:172 Resp: 185980

Ion Ratio Lower Upper

172 100

171 33.8 28.8 43.2

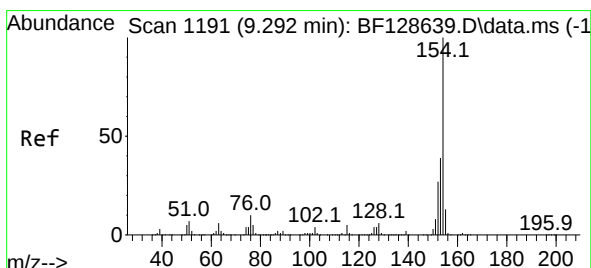
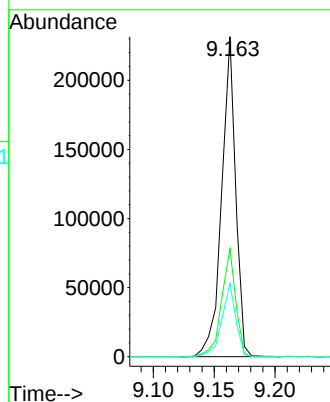
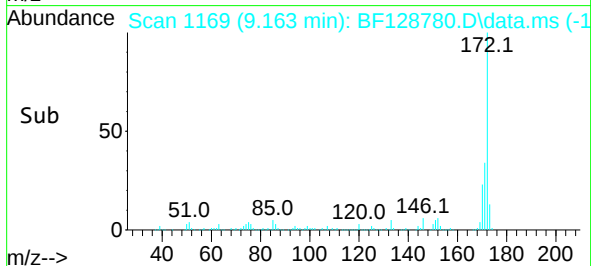
170 22.9 19.8 29.8

Manual Integrations

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Reviewed By :Christian Giraldo 06/14/2022

Supervised By :Jagrut Upadhyay 06/14/2022



#46

1,1'-Biphenyl

Concen: 2.301 ng

RT: 9.263 min Scan# 1186

Delta R.T. -0.012 min

Lab File: BF128780.D

Acq: 13 Jun 2022 13:11

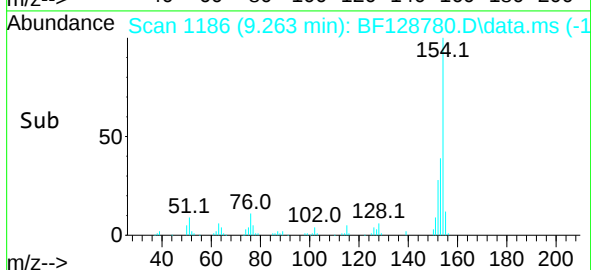
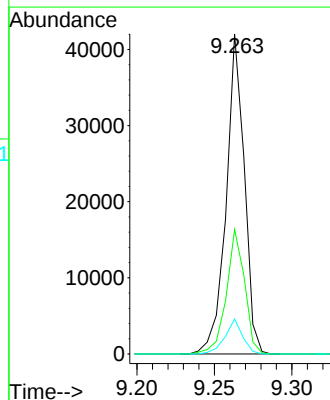
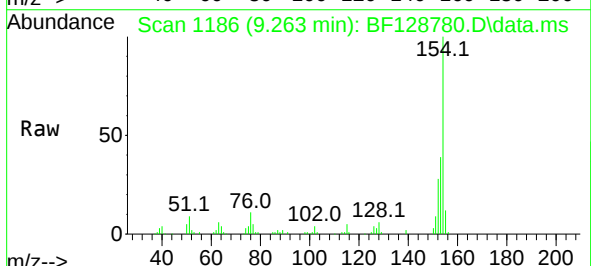
Tgt Ion:154 Resp: 34244

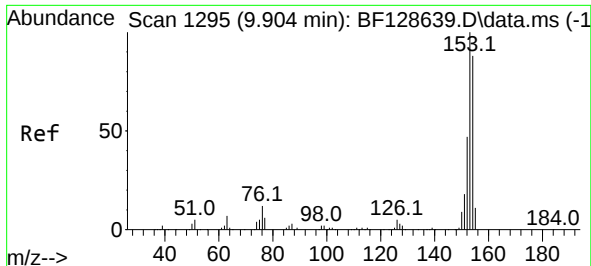
Ion Ratio Lower Upper

154 100

153 38.9 20.6 60.6

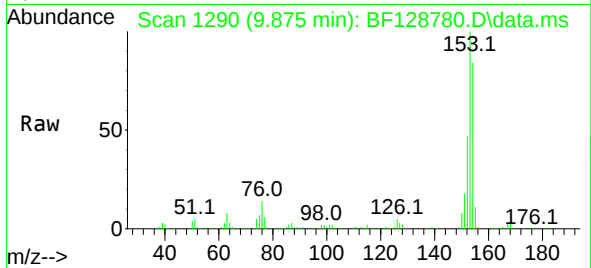
76 11.0 0.0 33.3





#52  
Acenaphthene  
Concen: 5.246 ng  
RT: 9.875 min Scan# 11  
Delta R.T. -0.018 min  
Lab File: BF128780.D  
Acq: 13 Jun 2022 13:11

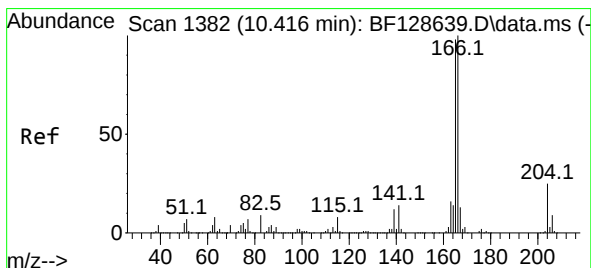
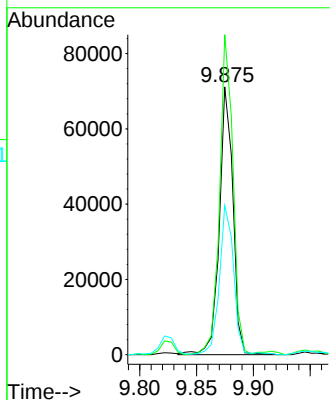
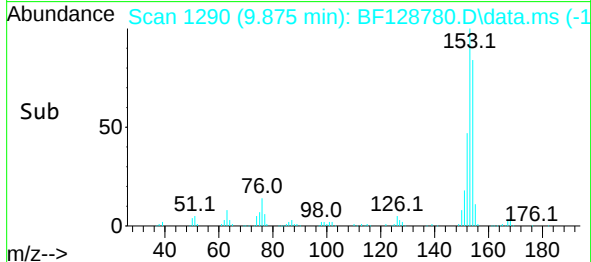
Instrument :  
BNA\_F  
ClientSampleId :  
GATE-6-JET-GROUT-SPOILSDL



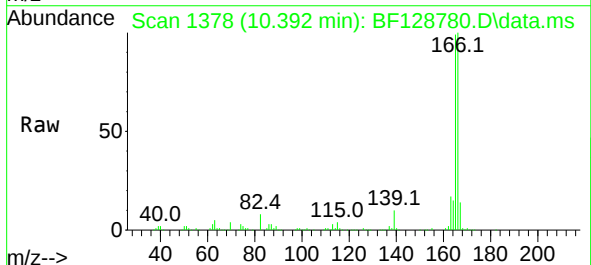
Tgt Ion:154 Resp: 59384  
Ion Ratio Lower Upper  
154 100  
153 119.4 89.6 134.4  
152 55.7 42.4 63.6

Manual Integrations  
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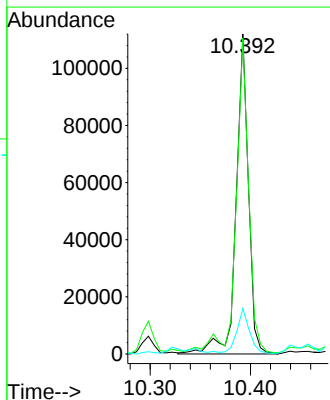
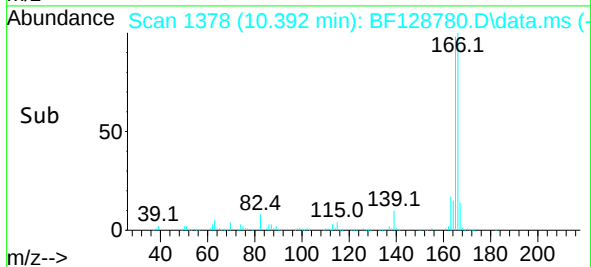
Reviewed By :Christian Giraldo 06/14/2022  
Supervised By :Jagrut Upadhyay 06/14/2022

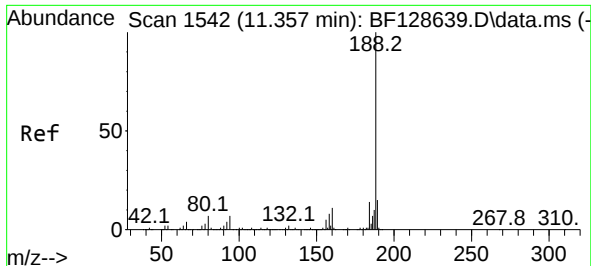


#58  
Fluorene  
Concen: 7.614 ng  
RT: 10.392 min Scan# 1378  
Delta R.T. -0.012 min  
Lab File: BF128780.D  
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Tgt Ion:166 Resp: 96070  
Ion Ratio Lower Upper  
166 100  
165 98.7 78.1 117.1  
167 14.2 10.5 15.7





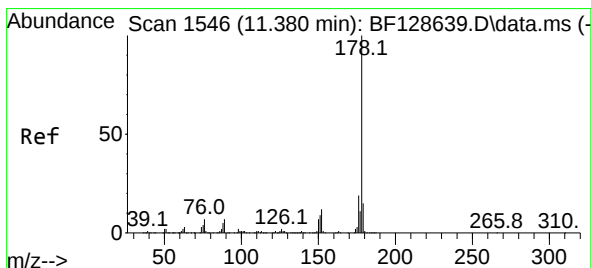
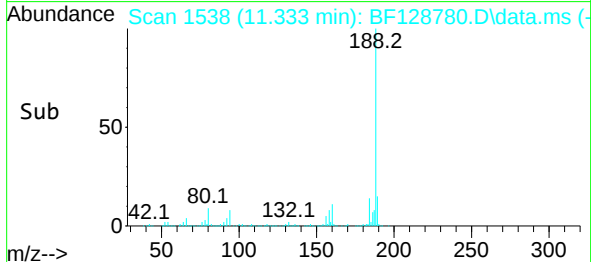
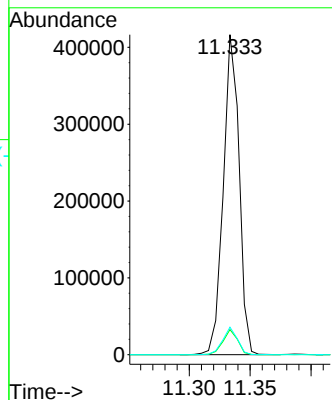
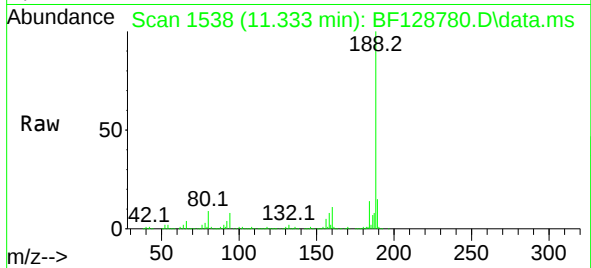
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.333 min Scan# 1538  
Delta R.T. -0.006 min  
Lab File: BF128780.D  
Acq: 13 Jun 2022 13:11

Instrument :  
BNA\_F  
ClientSampleId :  
GATE-6-JET-GROUT-SPOILSDL

Tgt Ion:188 Resp: 37719  
Ion Ratio Lower Upper  
188 100  
94 7.9 7.0 10.6  
80 8.6 7.6 11.4

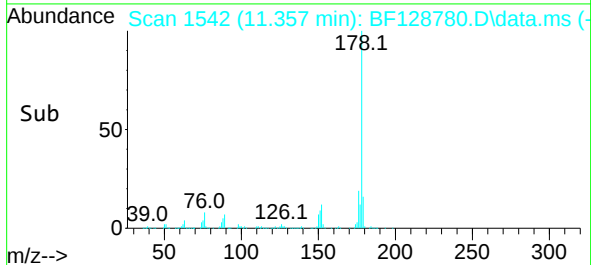
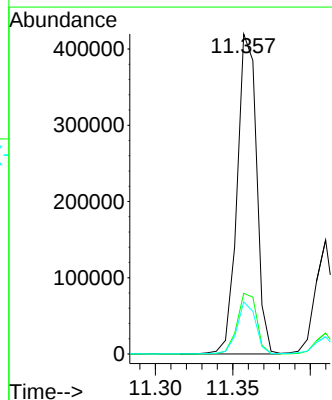
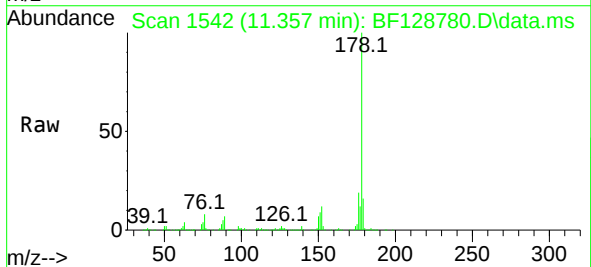
Manual Integrations  
APPROVED

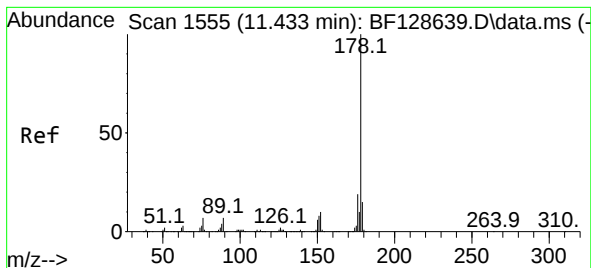
Reviewed By :Christian Giraldo 06/14/2022  
Supervised By :Jagrut Upadhyay 06/14/2022



#71  
Phenanthrene  
Concen: 19.345 ng  
RT: 11.357 min Scan# 1542  
Delta R.T. -0.012 min  
Lab File: BF128780.D  
Acq: 13 Jun 2022 13:11

Tgt Ion:178 Resp: 366003  
Ion Ratio Lower Upper  
178 100  
176 19.0 16.0 24.0  
179 16.2 12.6 19.0





#72

Anthracene

Concen: 6.244 ng

RT: 11.410 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF128780.D

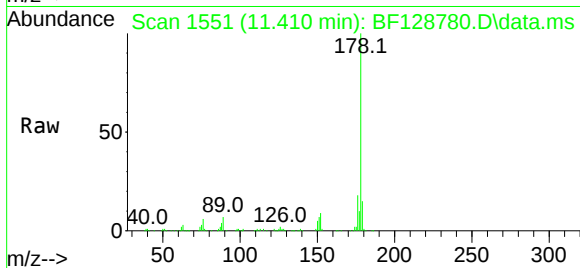
Acq: 13 Jun 2022 13:11

Instrument :

BNA\_F

ClientSampleId :

GATE-6-JET-GROUT-SPOILSDL



Tgt Ion:178 Resp: 116920

Ion Ratio Lower Upper

178 100

176 18.4 15.4 23.2

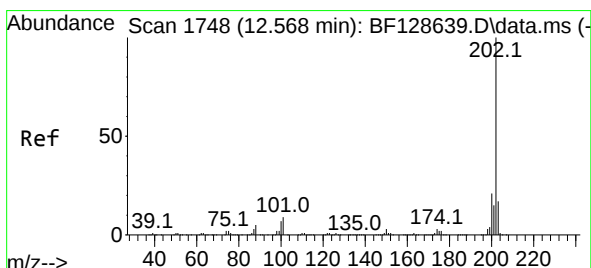
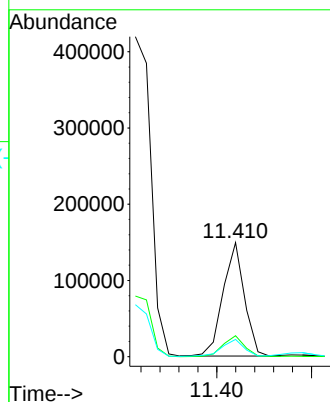
179 15.2 12.6 19.0

Manual Integrations

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Reviewed By :Christian Giraldo 06/14/2022

Supervised By :Jagrut Upadhyay 06/14/2022



#75

Fluoranthene

Concen: 5.782 ng

RT: 12.551 min Scan# 1745

Delta R.T. -0.006 min

Lab File: BF128780.D

Acq: 13 Jun 2022 13:11

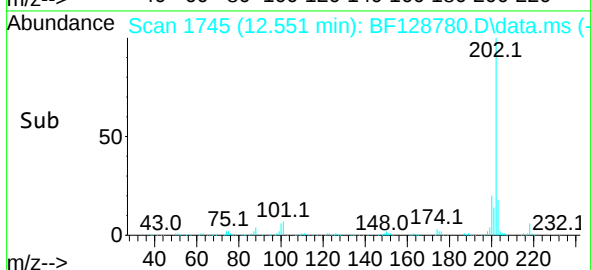
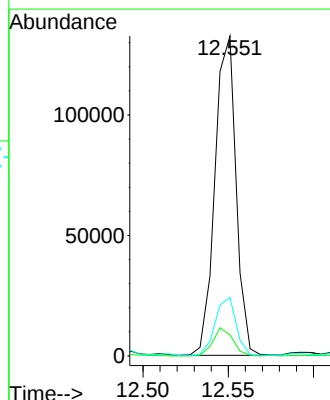
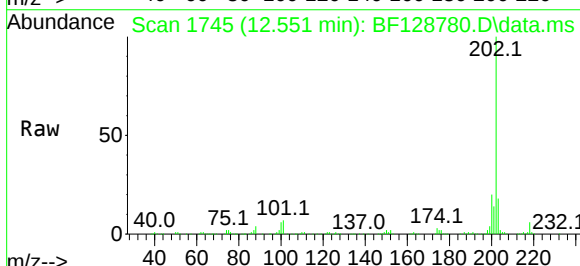
Tgt Ion:202 Resp: 114341

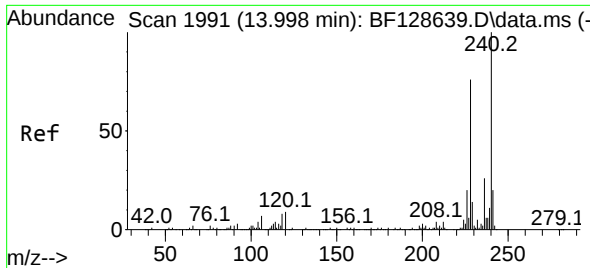
Ion Ratio Lower Upper

202 100

101 6.6 0.0 31.4

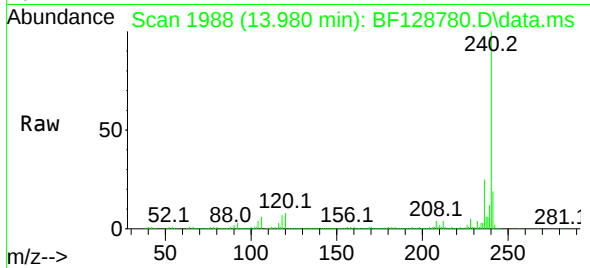
203 18.3 0.0 38.0





#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.980 min Scan# 1991  
Delta R.T. -0.006 min  
Lab File: BF128780.D  
Acq: 13 Jun 2022 13:11

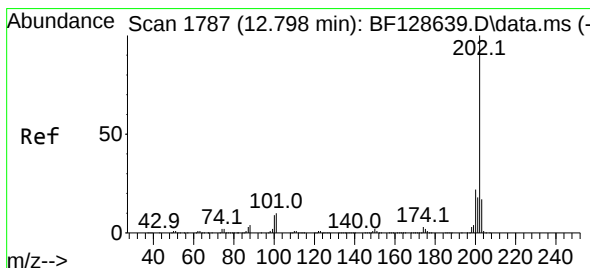
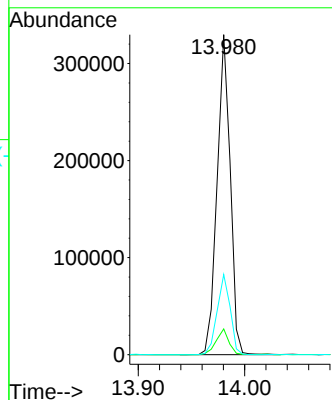
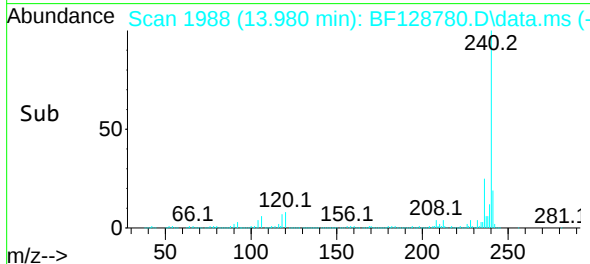
Instrument :  
BNA\_F  
ClientSampleId :  
GATE-6-JET-GROUT-SPOILSDL



Tgt Ion:240 Resp: 282250  
Ion Ratio Lower Upper  
240 100  
120 8.0 8.9 13.3  
236 25.0 20.8 31.2

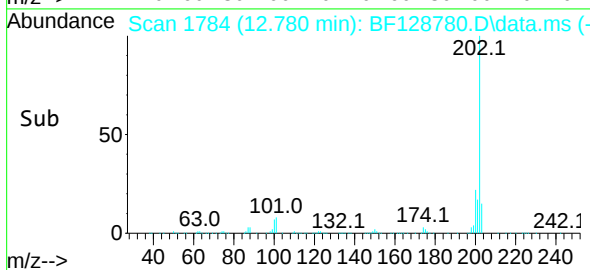
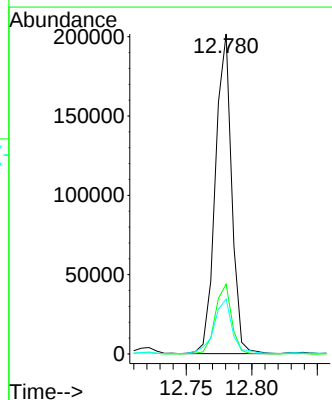
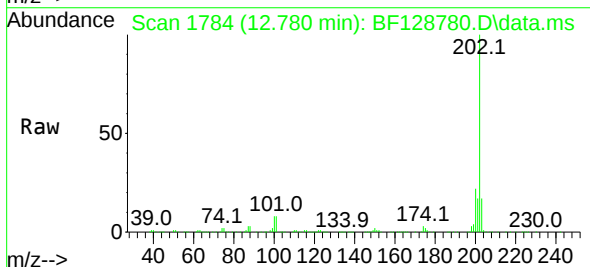
Manual Integrations  
APPROVED

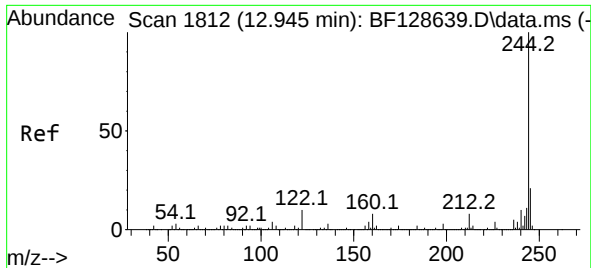
Reviewed By :Christian Giraldo 06/14/2022  
Supervised By :Jagrut Upadhyay 06/14/2022



#78  
Pyrene  
Concen: 8.272 ng  
RT: 12.780 min Scan# 1784  
Delta R.T. -0.006 min  
Lab File: BF128780.D  
Acq: 13 Jun 2022 13:11

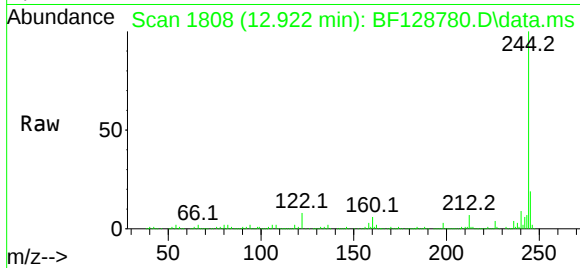
Tgt Ion:202 Resp: 173712  
Ion Ratio Lower Upper  
202 100  
200 21.8 17.7 26.5  
203 17.2 14.6 21.8





#79  
Terphenyl-d14  
Concen: 14.426 ng  
RT: 12.922 min Scan# 1808  
Delta R.T. -0.012 min  
Lab File: BF128780.D  
Acq: 13 Jun 2022 13:11

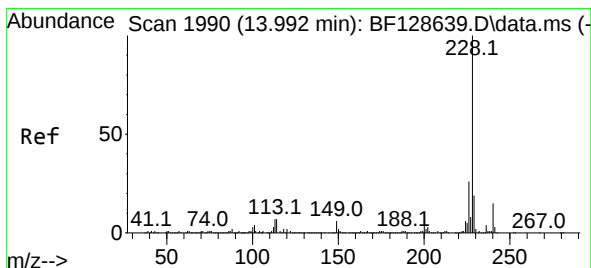
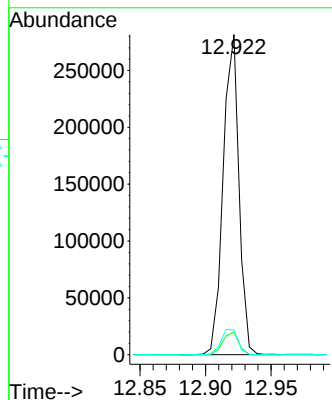
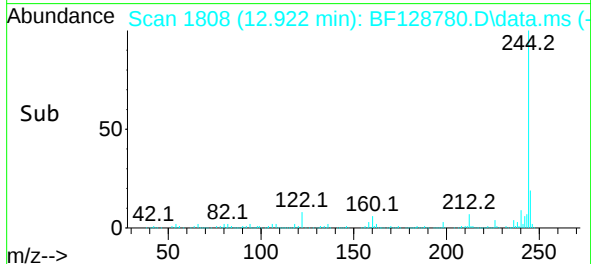
Instrument :  
BNA\_F  
ClientSampleId :  
GATE-6-JET-GROUT-SPOILSDL



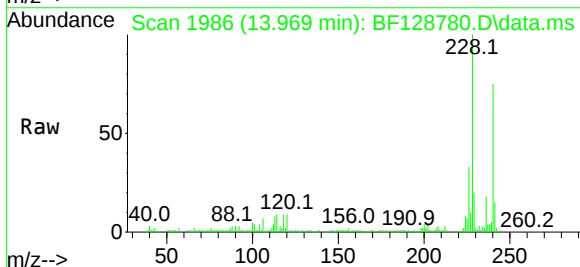
Tgt Ion:244 Resp: 234338  
Ion Ratio Lower Upper  
244 100  
212 7.1 6.1 9.1  
122 7.7 8.8 13.2

Manual Integrations  
APPROVED

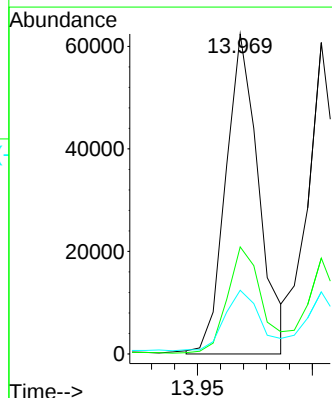
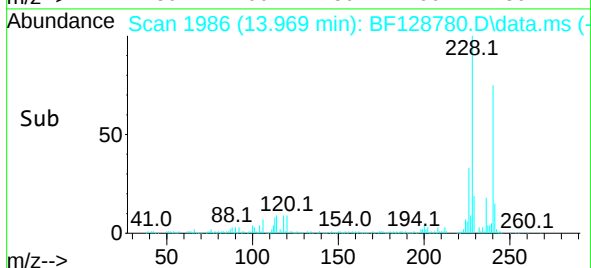
Reviewed By :Christian Giraldo 06/14/2022  
Supervised By :Jagrut Upadhyay 06/14/2022

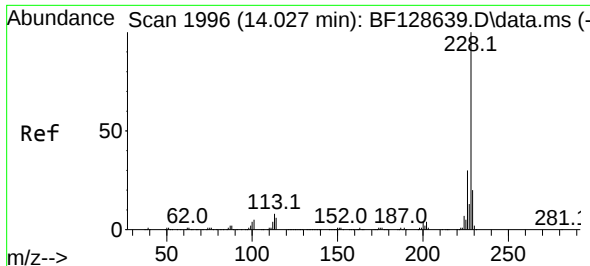


#81  
Benzo(a)anthracene  
Concen: 3.556 ng m  
RT: 13.969 min Scan# 1986  
Delta R.T. -0.006 min  
Lab File: BF128780.D  
Acq: 13 Jun 2022 13:11



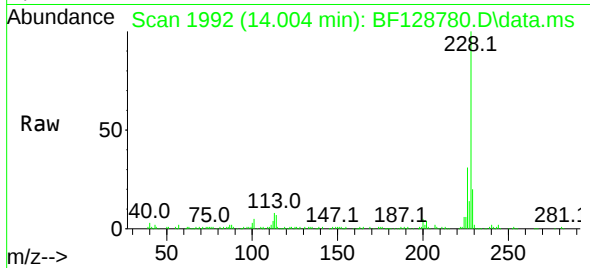
Tgt Ion:228 Resp: 62570  
Ion Ratio Lower Upper  
228 100  
226 33.5 22.1 33.1#  
229 19.9 15.8 23.8





#83  
Chrysene  
Concen: 3.148 ng  
RT: 14.004 min Scan# 1996  
Delta R.T. -0.012 min  
Lab File: BF128780.D  
Acq: 13 Jun 2022 13:11

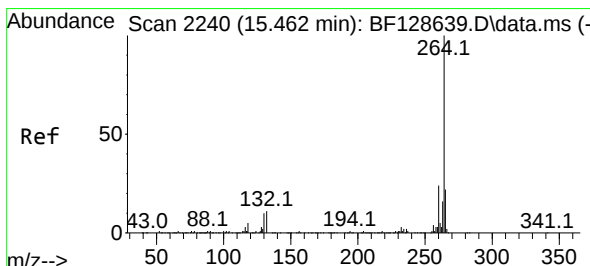
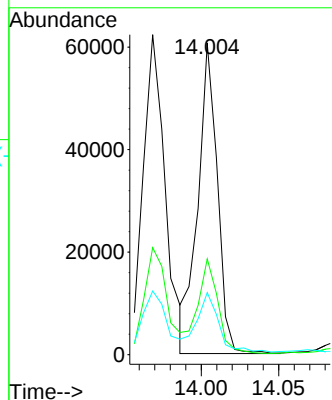
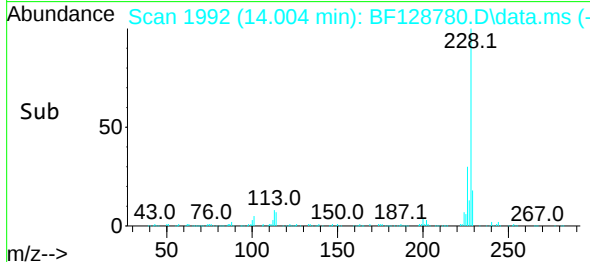
Instrument :  
BNA\_F  
ClientSampleId :  
GATE-6-JET-GROUT-SPOILSDL



Tgt Ion:228 Resp: 52800  
Ion Ratio Lower Upper  
228 100  
226 30.8 24.3 36.5  
229 20.0 15.9 23.9

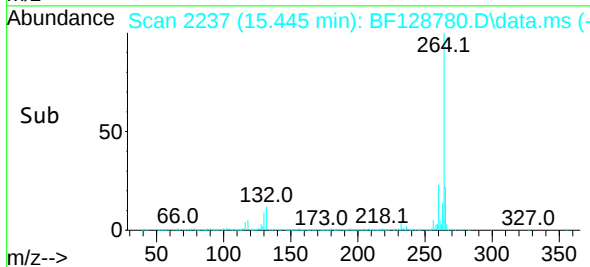
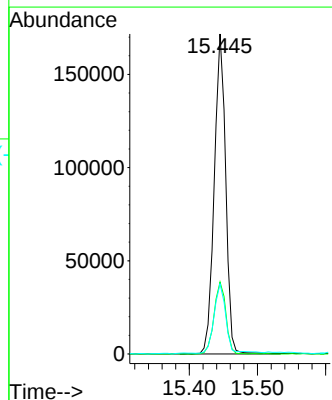
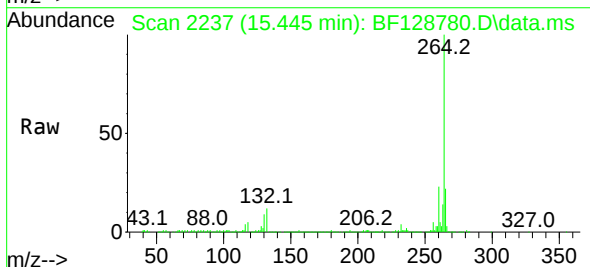
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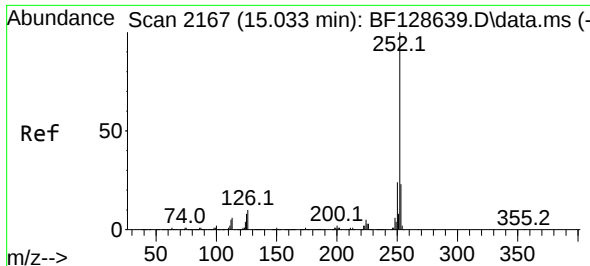
Reviewed By :Christian Giraldo 06/14/2022  
Supervised By :Jagrut Upadhyay 06/14/2022



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.445 min Scan# 2237  
Delta R.T. -0.000 min  
Lab File: BF128780.D  
Acq: 13 Jun 2022 13:11

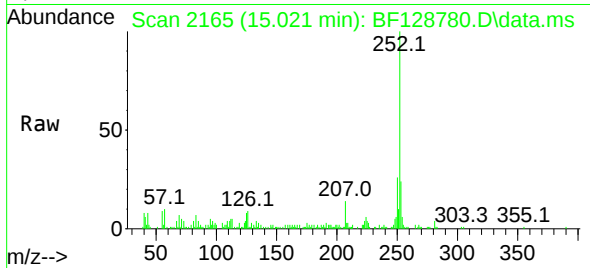
Tgt Ion:264 Resp: 200271  
Ion Ratio Lower Upper  
264 100  
260 22.5 18.4 27.6  
265 21.9 17.2 25.8





#88  
Benzo(b)fluoranthene  
Concen: 2.640 ng m  
RT: 15.021 min Scan# 2165  
Delta R.T. -0.000 min  
Lab File: BF128780.D  
Acq: 13 Jun 2022 13:11

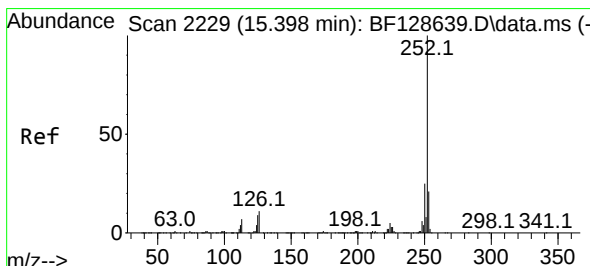
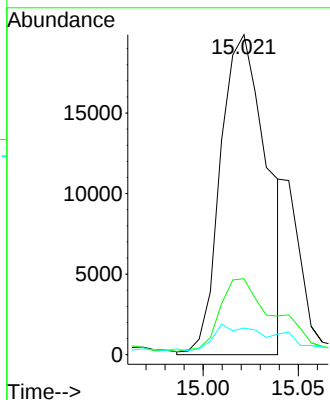
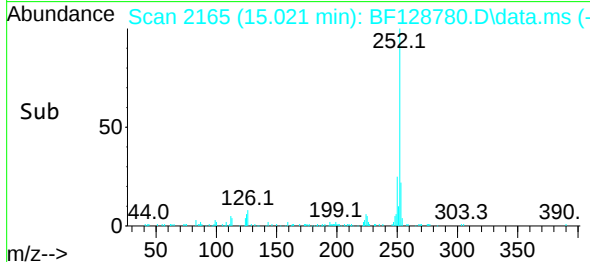
Instrument :  
BNA\_F  
ClientSampleId :  
GATE-6-JET-GROUT-SPOILSDL



Tgt Ion:252 Resp: 3378  
Ion Ratio Lower Upper  
252 100  
253 23.7 17.7 26.5  
125 8.3 8.0 12.0

Manual Integrations  
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Reviewed By :Christian Giraldo 06/14/2022  
Supervised By :Jagrut Upadhyay 06/14/2022



#90  
Benzo(a)pyrene  
Concen: 2.779 ng  
RT: 15.380 min Scan# 2226  
Delta R.T. -0.006 min  
Lab File: BF128780.D  
Acq: 13 Jun 2022 13:11

Tgt Ion:252 Resp: 27956  
Ion Ratio Lower Upper  
252 100  
253 22.4 17.0 25.6  
125 9.6 8.8 13.2

