

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110122\  
 Data File : BF130905.D  
 Acq On : 01 Nov 2022 17:47  
 Operator : CG\JU  
 Sample : N5235-06  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 LSP-SS-02-03-05

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 11/02/2022  
 Supervised By : Jagrut Upadhyay 11/02/2022

Quant Time: Nov 02 08:22:14 2022  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF102722.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Nov 02 08:18:35 2022  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.934  | 152  | 88231    | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.216  | 136  | 340315   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.981  | 164  | 172975   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.475 | 188  | 245733   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 14.122 | 240  | 156058   | 20.000 | ng    | # 0.00   |
| 86) Perylene-d12            | 15.645 | 264  | 132197   | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.551  | 112  | 508788   | 99.969 | ng    | 0.00     |
| 7) Phenol-d6                | 6.551  | 99   | 647667   | 97.928 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.498  | 82   | 439153   | 77.811 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.775 | 330  | 135418   | 93.000 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.298  | 172  | 731031   | 63.896 | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.063 | 244  | 492779   | 57.863 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene            | 11.498 | 178  | 42592    | 3.358  | ng    | 98       |
| 75) Fluoranthene            | 12.686 | 202  | 63264    | 4.695  | ng    | 98       |
| 78) Pyrene                  | 12.922 | 202  | 93603    | 7.109  | ng    | 100      |
| 81) Benzo(a)anthracene      | 14.110 | 228  | 47556    | 4.596  | ng    | 96       |
| 83) Chrysene                | 14.145 | 228  | 50167    | 5.027  | ng    | 96       |
| 87) Indeno(1,2,3-cd)pyrene  | 17.180 | 276  | 19207    | 2.188  | ng    | 92       |
| 88) Benzo(b)fluoranthene    | 15.192 | 252  | 51185m   | 5.990  | ng    |          |
| 90) Benzo(a)pyrene          | 15.574 | 252  | 39639    | 5.770  | ng    | # 84     |
| 92) Benzo(g,h,i)perylene    | 17.645 | 276  | 20248    | 2.773  | ng    | # 92     |
| -----                       |        |      |          |        |       |          |

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

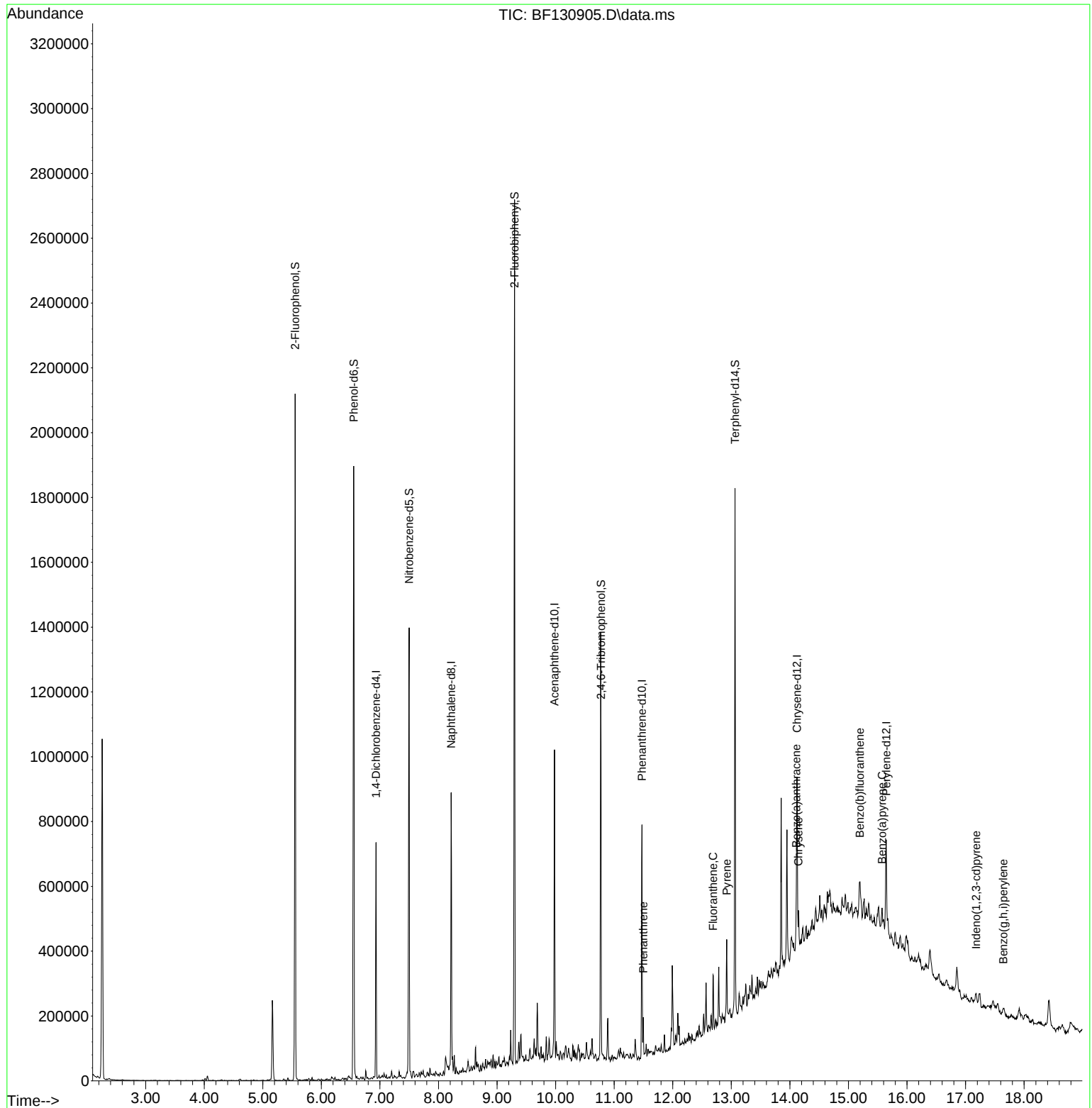
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110122\  
Data File : BF130905.D  
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LSP-SS-02-03-05

Quant Time: Nov 02 08:22:14 2022  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF102722.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Nov 02 08:18:35 2022  
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Manual Integrations  
APPROVED

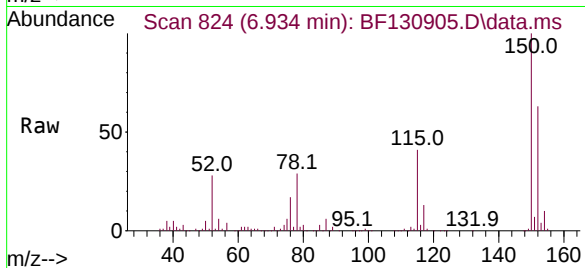
Reviewed By :Christian Giraldo 11/02/2022  
Supervised By :Jagrut Upadhyay 11/02/2022





#1  
 1,4-Dichlorobenzene-d4  
 Concen: 20.000 ng  
 RT: 6.934 min Scan# 81  
 Delta R.T. -0.005 min  
 Lab File: BF130905.D  
 Acq: 01 Nov 2022 17:47

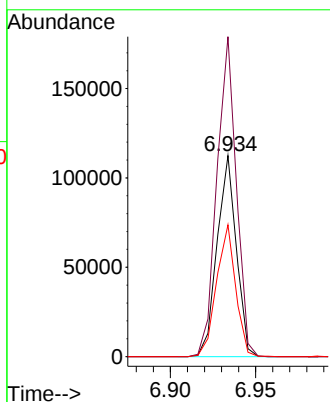
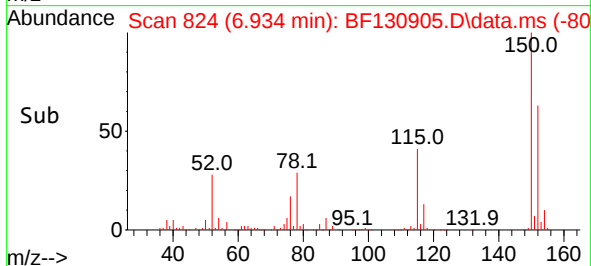
Instrument :  
 BNA\_F  
 ClientSampleId :  
 LSP-SS-02-03-05



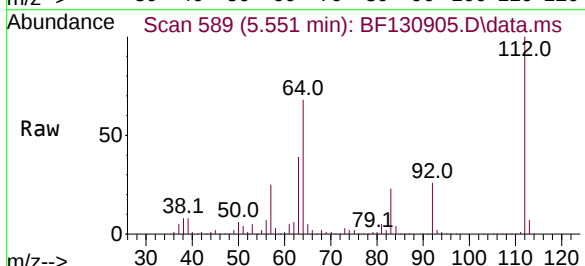
Tgt Ion:152 Resp: 88231  
 Ion Ratio Lower Upper  
 152 100  
 150 159.1 124.1 186.1  
 115 65.5 50.1 75.1

Manual Integrations  
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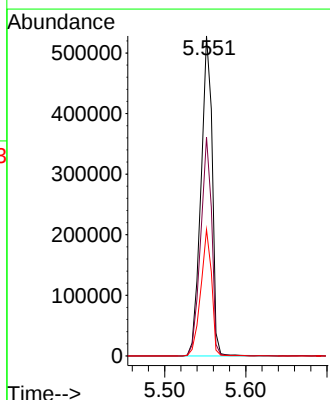
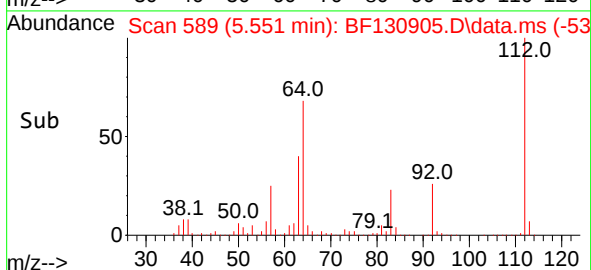
Reviewed By :Christian Giraldo 11/02/2022  
 Supervised By :Jagrut Upadhyay 11/02/2022



#5  
 2-Fluorophenol  
 Concen: 99.969 ng  
 RT: 5.551 min Scan# 589  
 Delta R.T. 0.000 min  
 Lab File: BF130905.D  
 Acq: 01 Nov 2022 17:47



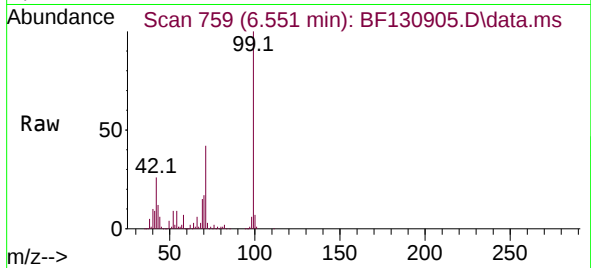
Tgt Ion:112 Resp: 508788  
 Ion Ratio Lower Upper  
 112 100  
 64 68.4 53.9 80.9  
 63 39.5 29.4 44.2





#7  
Phenol-d6  
Concen: 97.928 ng  
RT: 6.551 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: BF130905.D  
Acq: 01 Nov 2022 17:47

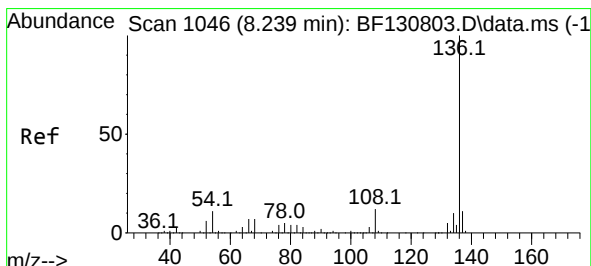
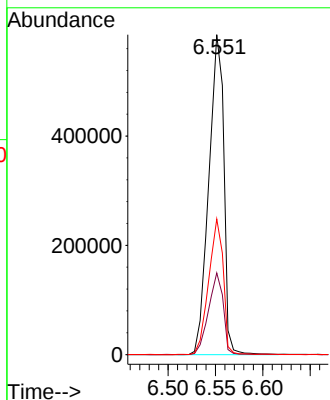
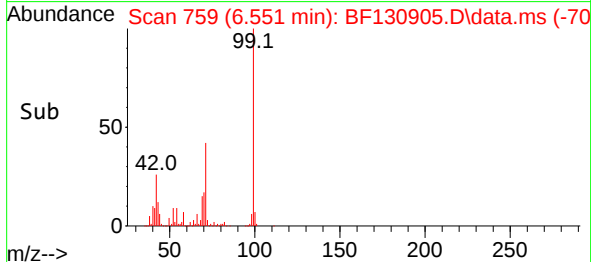
Instrument :  
BNA\_F  
ClientSampleId :  
LSP-SS-02-03-05



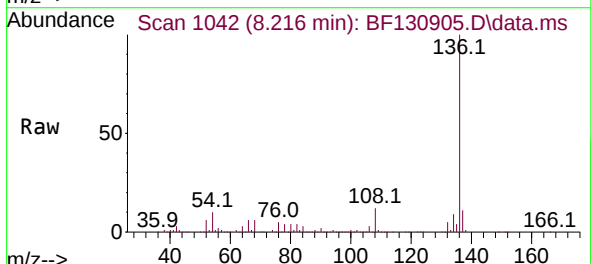
Tgt Ion: 99 Resp: 647662  
Ion Ratio Lower Upper  
99 100  
42 25.5 18.8 28.2  
71 42.4 31.4 47.0

Manual Integrations  
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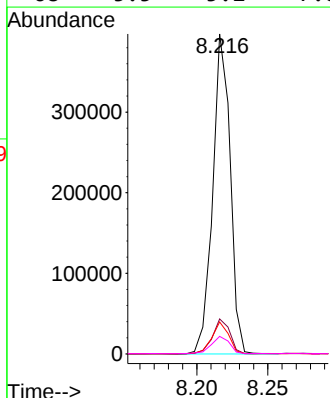
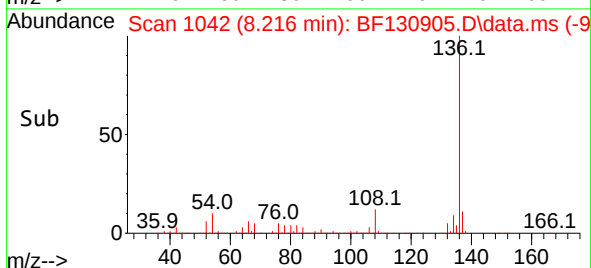
Reviewed By :Christian Giraldo 11/02/2022  
Supervised By :Jagrut Upadhyay 11/02/2022



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.216 min Scan# 1042  
Delta R.T. -0.006 min  
Lab File: BF130905.D  
Acq: 01 Nov 2022 17:47



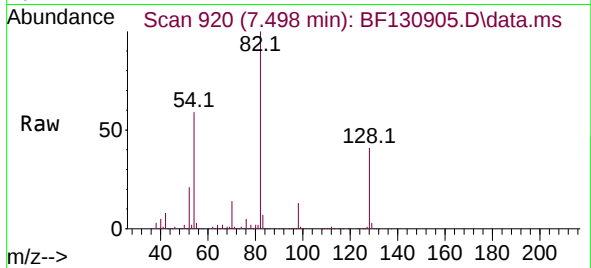
Tgt Ion:136 Resp: 340315  
Ion Ratio Lower Upper  
136 100  
137 10.9 9.2 13.8  
54 10.0 8.8 13.2  
68 5.5 5.2 7.8





#23  
Nitrobenzene-d5  
Concen: 77.811 ng  
RT: 7.498 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: BF130905.D  
Acq: 01 Nov 2022 17:47

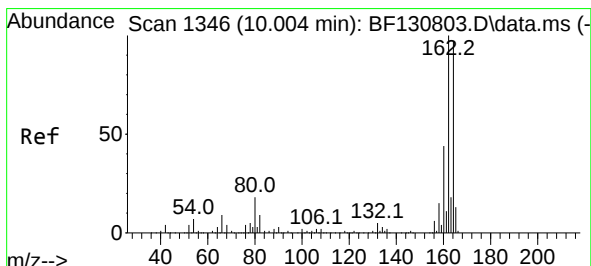
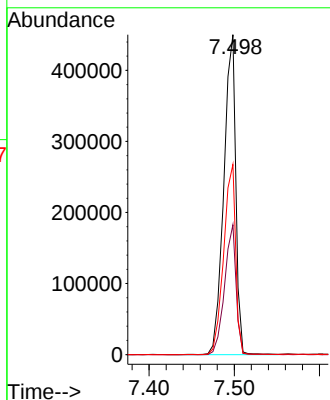
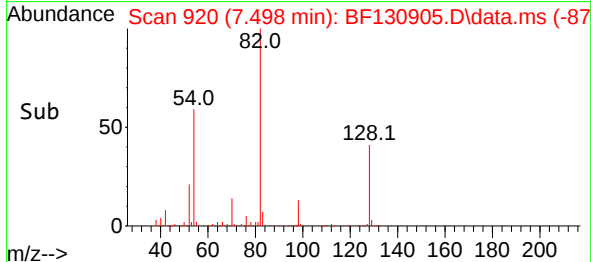
Instrument :  
BNA\_F  
ClientSampleId :  
LSP-SS-02-03-05



Tgt Ion: 82 Resp: 439153  
Ion Ratio Lower Upper  
82 100  
128 40.6 31.2 46.8  
54 59.4 48.0 72.0

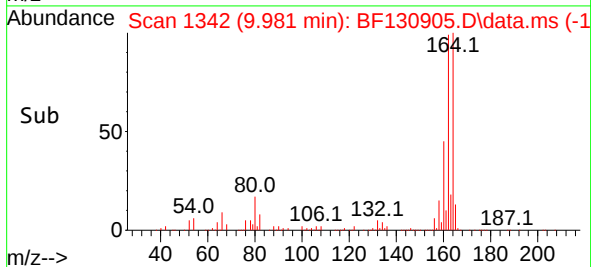
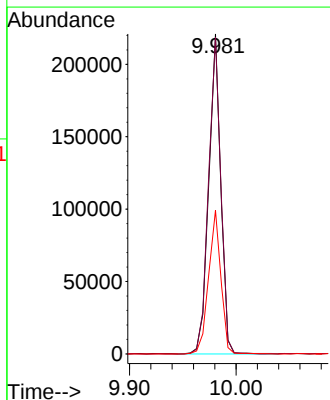
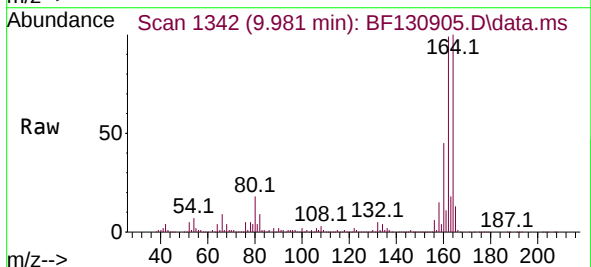
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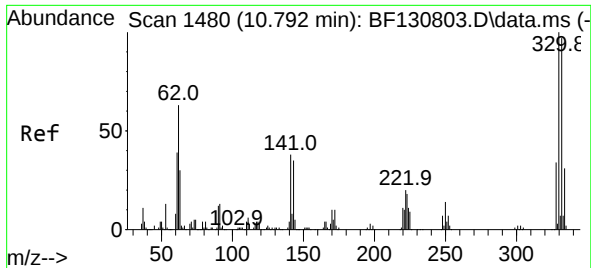
Reviewed By :Christian Giraldo 11/02/2022  
Supervised By :Jagrut Upadhyay 11/02/2022



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.981 min Scan# 1342  
Delta R.T. -0.006 min  
Lab File: BF130905.D  
Acq: 01 Nov 2022 17:47

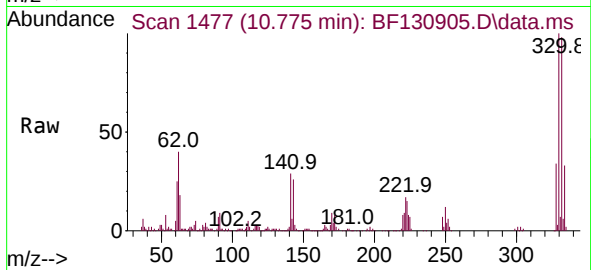
Tgt Ion:164 Resp: 172975  
Ion Ratio Lower Upper  
164 100  
162 98.9 82.2 123.2  
160 44.9 36.6 54.8





#42  
2,4,6-Tribromophenol  
Concen: 93.000 ng  
RT: 10.775 min Scan# 1480  
Delta R.T. -0.006 min  
Lab File: BF130905.D  
Acq: 01 Nov 2022 17:47

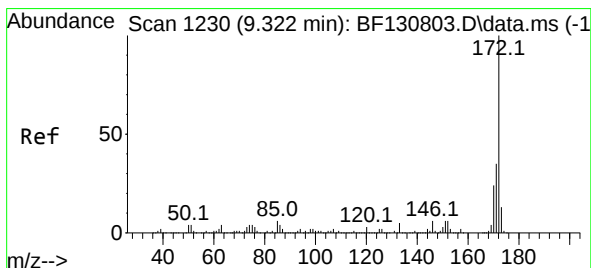
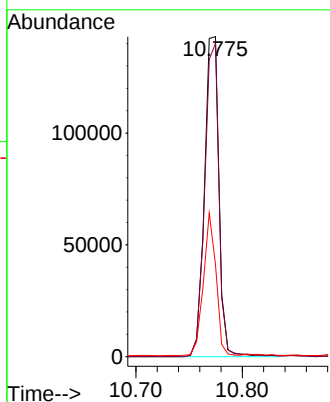
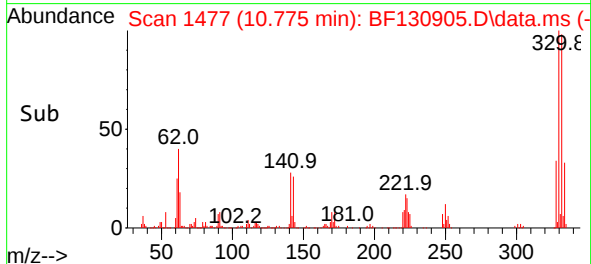
Instrument :  
BNA\_F  
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LSP-SS-02-03-05



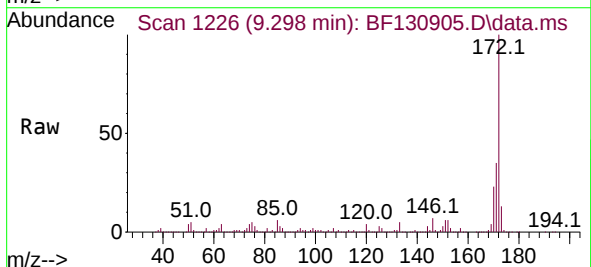
Tgt Ion: 330 Resp: 135418  
Ion Ratio Lower Upper  
330 100  
332 96.2 76.2 114.4  
141 38.7 31.4 47.0

Manual Integrations  
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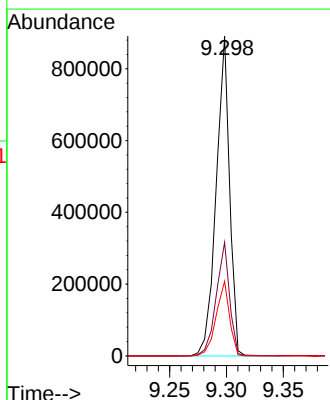
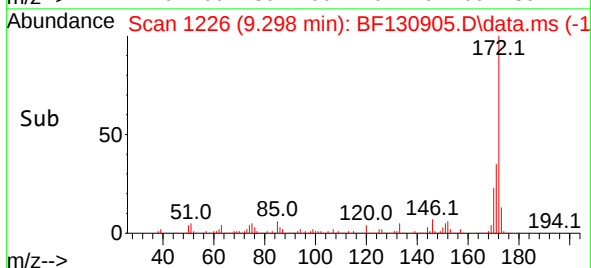
Reviewed By : Christian Giraldo 11/02/2022  
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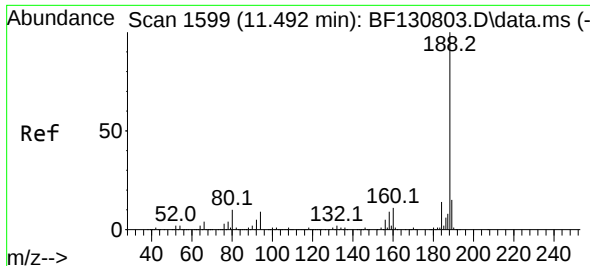


#45  
2-Fluorobiphenyl  
Concen: 63.896 ng  
RT: 9.298 min Scan# 1226  
Delta R.T. -0.006 min  
Lab File: BF130905.D  
Acq: 01 Nov 2022 17:47



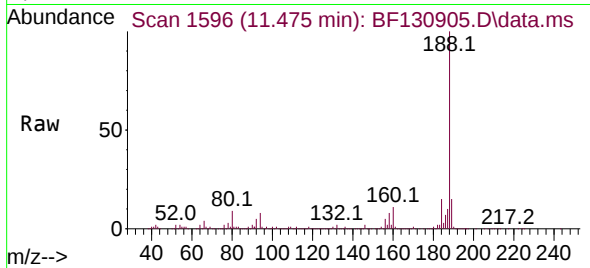
Tgt Ion: 172 Resp: 731031  
Ion Ratio Lower Upper  
172 100  
171 35.5 28.1 42.1  
170 23.3 19.0 28.4





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.475 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF130905.D  
Acq: 01 Nov 2022 17:47

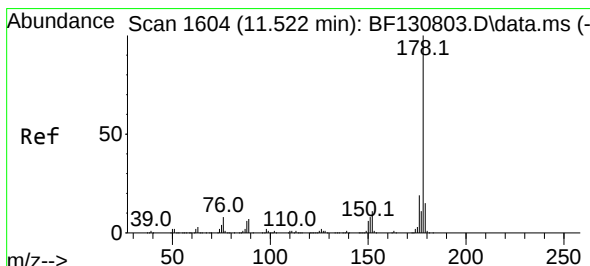
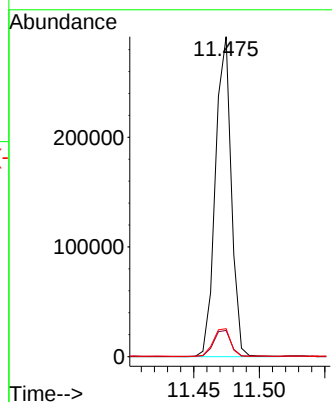
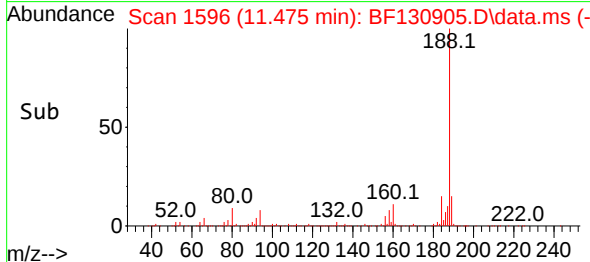
Instrument :  
BNA\_F  
ClientSampleId :  
LSP-SS-02-03-05



Tgt Ion:188 Resp: 245733  
Ion Ratio Lower Upper  
188 100  
94 8.2 7.4 11.2  
80 8.7 8.0 12.0

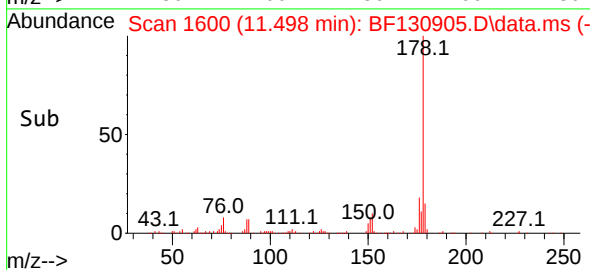
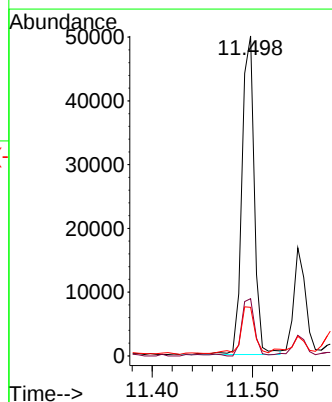
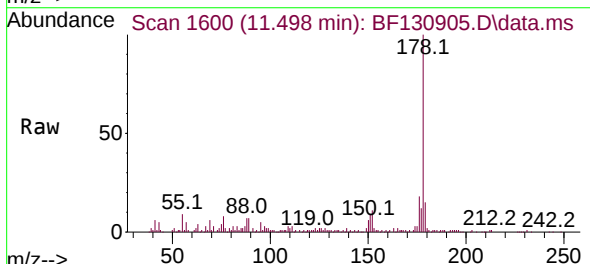
Manual Integrations  
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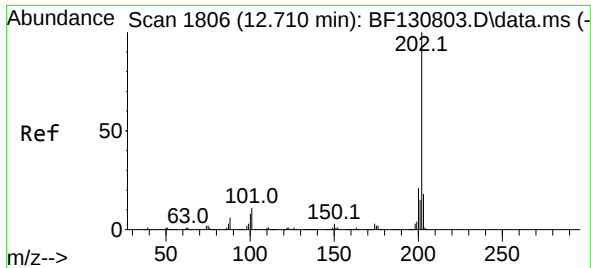
Reviewed By :Christian Giraldo 11/02/2022  
Supervised By :Jagrut Upadhyay 11/02/2022



#71  
Phenanthrene  
Concen: 3.358 ng  
RT: 11.498 min Scan# 1600  
Delta R.T. -0.006 min  
Lab File: BF130905.D  
Acq: 01 Nov 2022 17:47

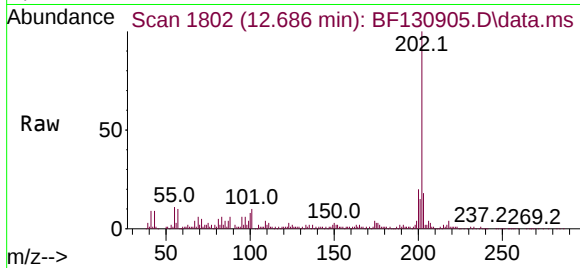
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Ion Ratio Lower Upper  
178 100  
176 17.9 15.5 23.3  
179 15.2 12.2 18.2





#75  
Fluoranthene  
Concen: 4.695 ng  
RT: 12.686 min Scan# 1806  
Delta R.T. -0.012 min  
Lab File: BF130905.D  
Acq: 01 Nov 2022 17:47

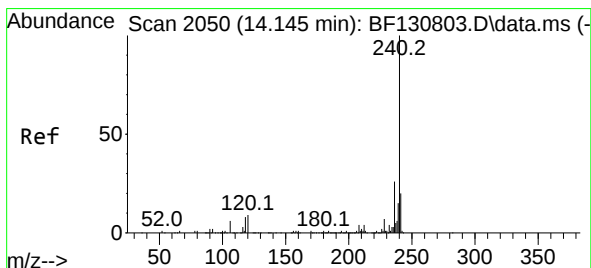
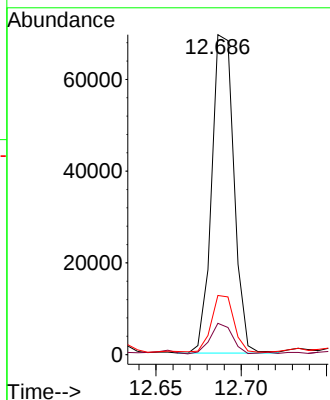
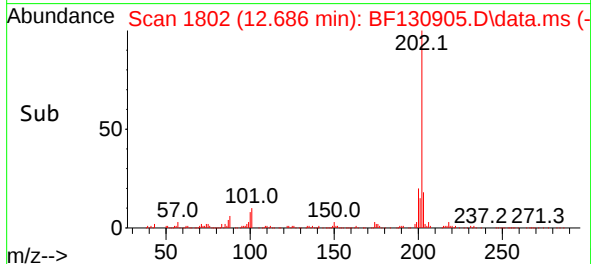
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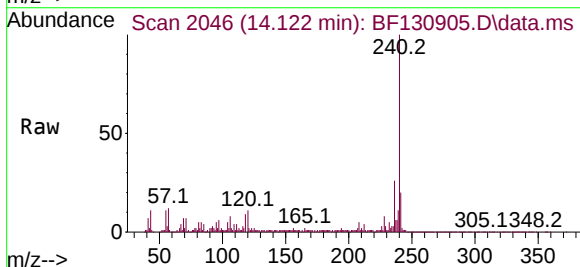
Tgt Ion:202 Resp: 63264  
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202 100  
101 9.8 0.0 30.9  
203 18.5 0.0 37.7

Manual Integrations  
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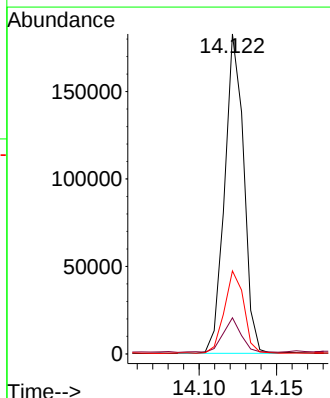
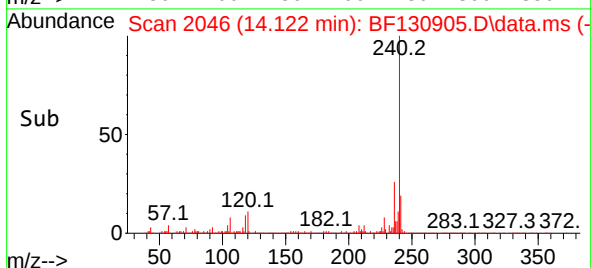
Reviewed By :Christian Giraldo 11/02/2022  
Supervised By :Jagrut Upadhyay 11/02/2022

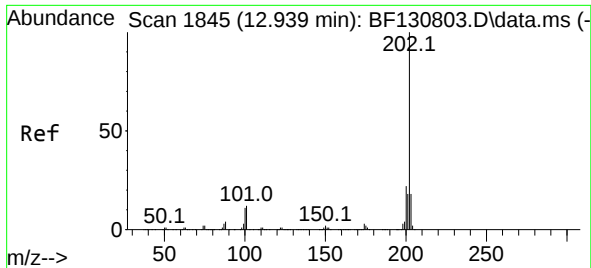


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.122 min Scan# 2046  
Delta R.T. -0.006 min  
Lab File: BF130905.D  
Acq: 01 Nov 2022 17:47



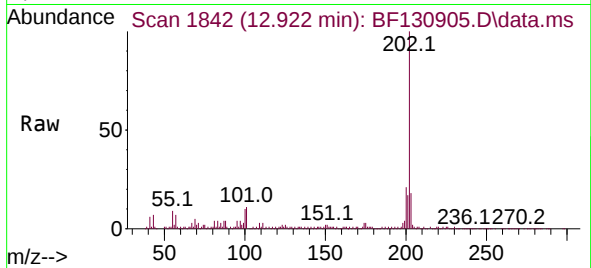
Tgt Ion:240 Resp: 156058  
Ion Ratio Lower Upper  
240 100  
120 11.3 7.0 10.4#  
236 25.9 20.5 30.7





#78  
Pyrene  
Concen: 7.109 ng  
RT: 12.922 min Scan# 1845  
Delta R.T. -0.006 min  
Lab File: BF130905.D  
Acq: 01 Nov 2022 17:47

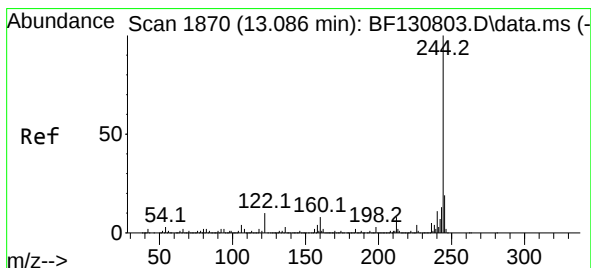
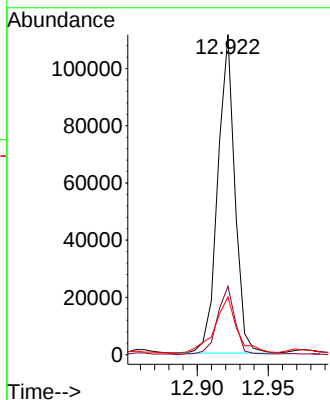
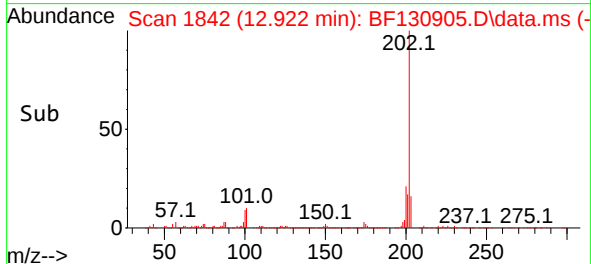
Instrument :  
BNA\_F  
ClientSampleId :  
LSP-SS-02-03-05



Tgt Ion:202 Resp: 93603  
Ion Ratio Lower Upper  
202 100  
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203 18.0 14.5 21.7

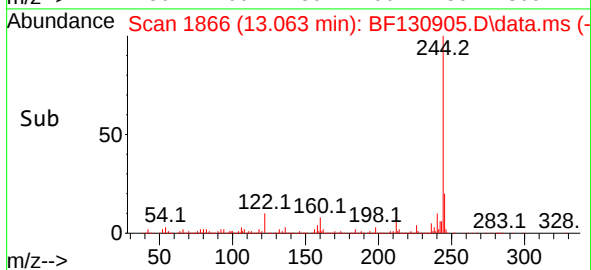
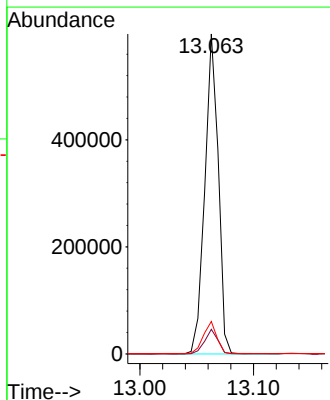
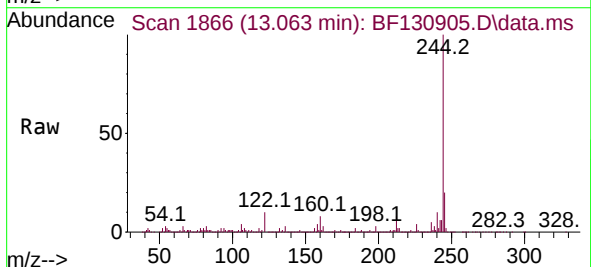
Manual Integrations  
APPROVED

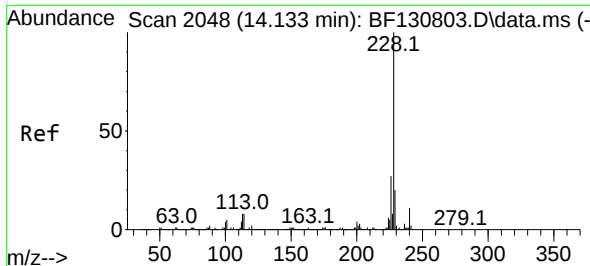
Reviewed By :Christian Giraldo 11/02/2022  
Supervised By :Jagrut Upadhyay 11/02/2022



#79  
Terphenyl-d14  
Concen: 57.863 ng  
RT: 13.063 min Scan# 1866  
Delta R.T. -0.006 min  
Lab File: BF130905.D  
Acq: 01 Nov 2022 17:47

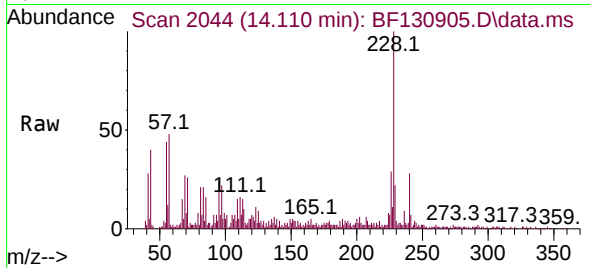
Tgt Ion:244 Resp: 492779  
Ion Ratio Lower Upper  
244 100  
212 7.7 6.2 9.2  
122 10.1 7.9 11.9





#81  
Benzo(a)anthracene  
Concen: 4.596 ng  
RT: 14.110 min Scan# 2044  
Delta R.T. -0.006 min  
Lab File: BF130905.D  
Acq: 01 Nov 2022 17:47

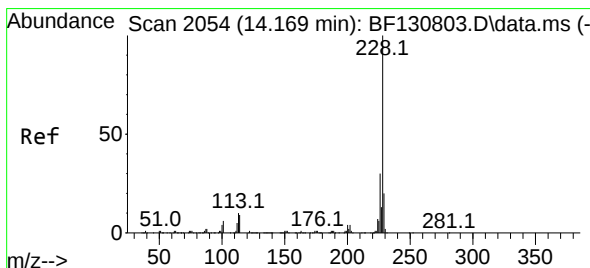
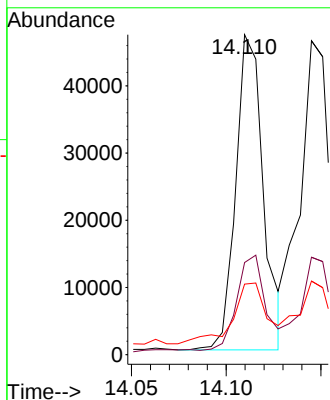
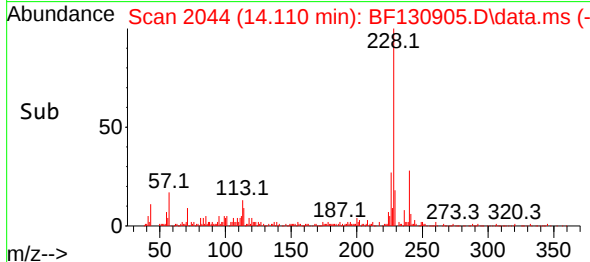
Instrument :  
BNA\_F  
ClientSampleId :  
LSP-SS-02-03-05



Tgt Ion:228 Resp: 47556  
Ion Ratio Lower Upper  
228 100  
226 28.8 21.4 32.2  
229 22.0 15.8 23.6

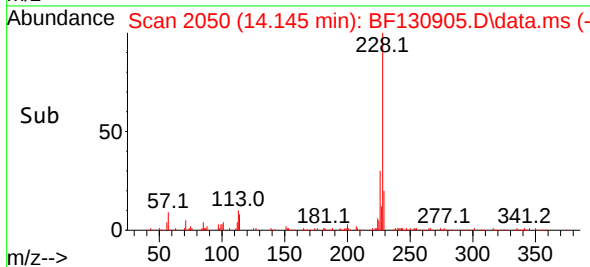
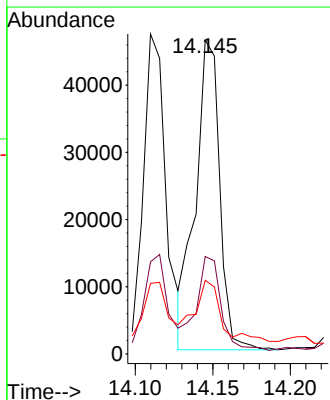
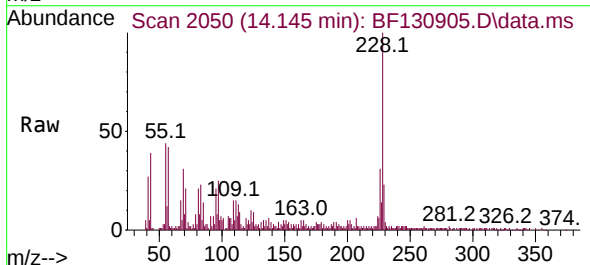
Manual Integrations  
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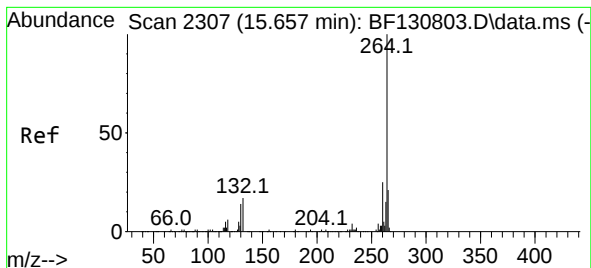
Reviewed By :Christian Giraldo 11/02/2022  
Supervised By :Jagrut Upadhyay 11/02/2022



#83  
Chrysene  
Concen: 5.027 ng  
RT: 14.145 min Scan# 2050  
Delta R.T. -0.012 min  
Lab File: BF130905.D  
Acq: 01 Nov 2022 17:47

Tgt Ion:228 Resp: 50167  
Ion Ratio Lower Upper  
228 100  
226 31.0 23.9 35.9  
229 23.4 15.8 23.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.645 min Scan# 2307

Delta R.T. 0.000 min

Lab File: BF130905.D

Acq: 01 Nov 2022 17:47

Instrument :

BNA\_F

ClientSampleId :

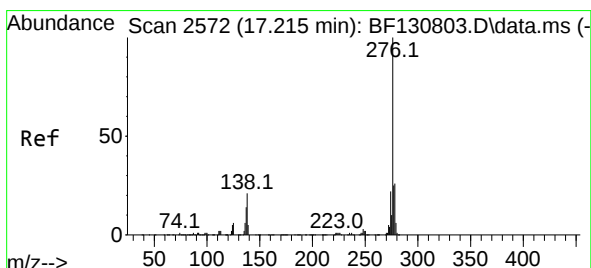
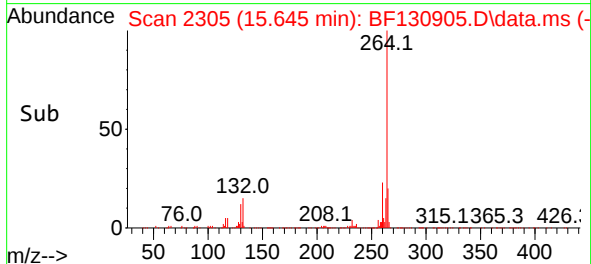
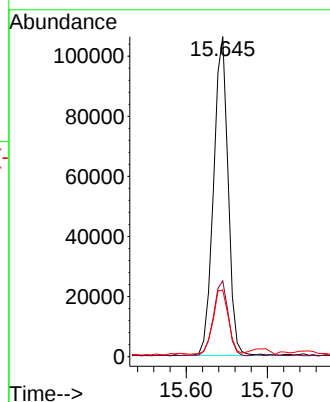
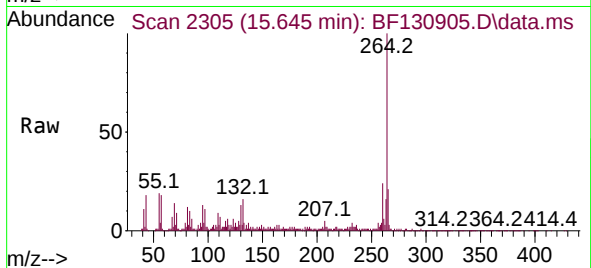
LSP-SS-02-03-05

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 264   | Resp: | 13219 |
| Ion Ratio | Lower | Upper |       |
| 264       | 100   |       |       |
| 260       | 23.7  | 19.9  | 29.9  |
| 265       | 20.8  | 17.0  | 25.6  |

Manual Integrations

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Reviewed By :Christian Giraldo 11/02/2022  
Supervised By :Jagrut Upadhyay 11/02/2022



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.188 ng

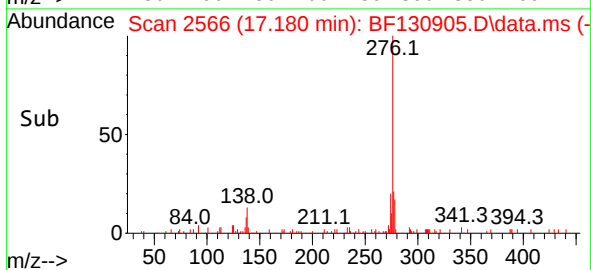
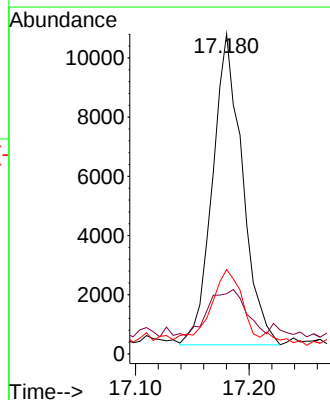
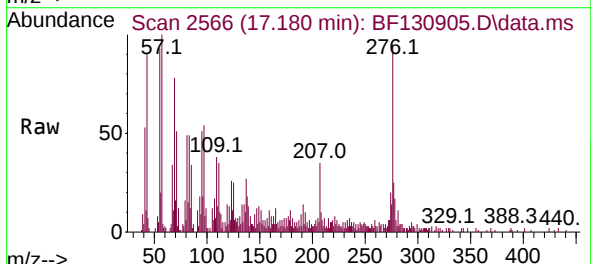
RT: 17.180 min Scan# 2566

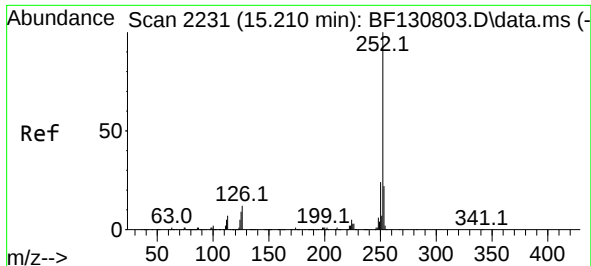
Delta R.T. -0.012 min

Lab File: BF130905.D

Acq: 01 Nov 2022 17:47

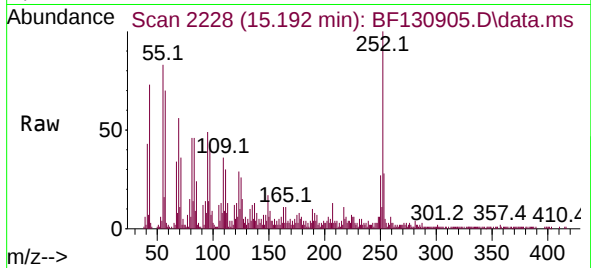
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 19207 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 19.8  | 19.1  | 28.7  |
| 277       | 29.3  | 20.1  | 30.1  |





#88  
Benzo(b)fluoranthene  
Concen: 5.990 ng m  
RT: 15.192 min Scan# 2228  
Delta R.T. 0.000 min  
Lab File: BF130905.D  
Acq: 01 Nov 2022 17:47

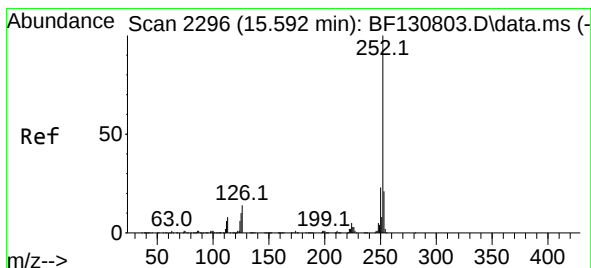
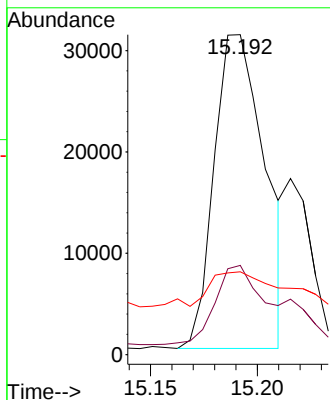
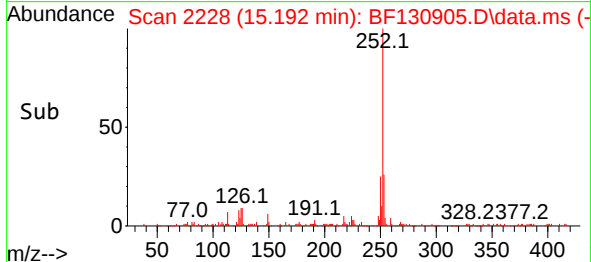
Instrument :  
BNA\_F  
ClientSampleId :  
LSP-SS-02-03-05



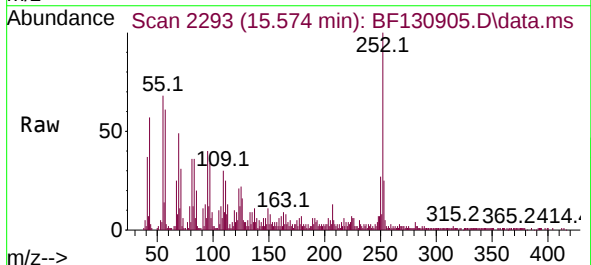
Tgt Ion:252 Resp: 51185  
Ion Ratio Lower Upper  
252 100  
253 27.9 17.5 26.3  
125 25.9 7.0 10.4

Manual Integrations  
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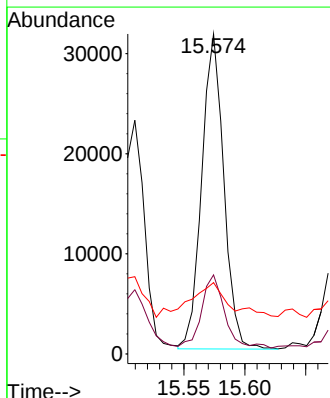
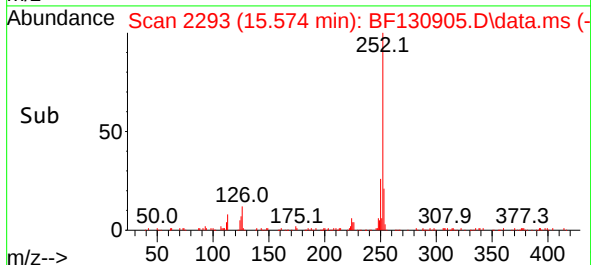
Reviewed By :Christian Giraldo 11/02/2022  
Supervised By :Jagrut Upadhyay 11/02/2022

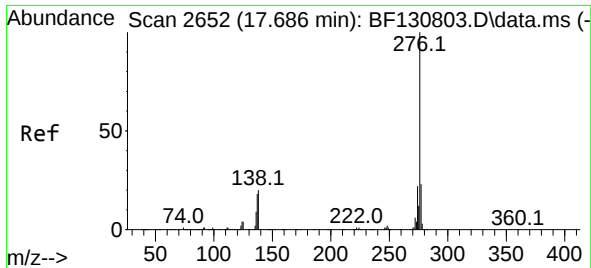


#90  
Benzo(a)pyrene  
Concen: 5.770 ng  
RT: 15.574 min Scan# 2293  
Delta R.T. -0.006 min  
Lab File: BF130905.D  
Acq: 01 Nov 2022 17:47



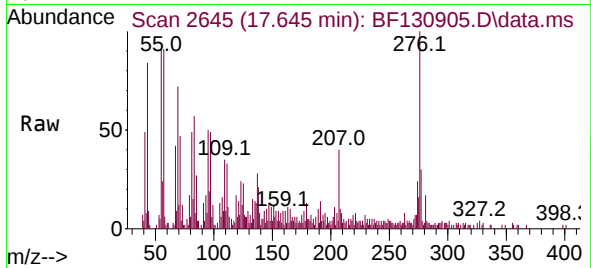
Tgt Ion:252 Resp: 39639  
Ion Ratio Lower Upper  
252 100  
253 24.7 16.8 25.2  
125 22.3 8.3 12.5





#92  
 Benzo(g,h,i)perylene  
 Concen: 2.773 ng  
 RT: 17.645 min Scan# 20  
 Delta R.T. -0.023 min  
 Lab File: BF130905.D  
 Acq: 01 Nov 2022 17:47

Instrument :  
 BNA\_F  
 ClientSampleId :  
 LSP-SS-02-03-05



Tgt Ion: 276 Resp: 20248

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 277 | 30.5  | 18.8  | 28.2  |
| 138 | 20.9  | 16.3  | 24.5  |

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 11/02/2022  
 Supervised By : Jagrut Upadhyay 11/02/2022

