

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF112923\  
 Data File : BF136291.D  
 Acq On : 29 Nov 2023 19:15  
 Operator : CG\JU  
 Sample : 05503-04  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 72-11998

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 11/30/2023  
 Supervised By :mohammad ahmed 12/01/2023

Quant Time: Nov 29 23:48:34 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF112723.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Nov 28 03:04:20 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.804  | 152  | 112172   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.081  | 136  | 455679   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.839  | 164  | 205637   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.327 | 188  | 294272   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 13.980 | 240  | 219236   | 20.000 | ng    | -0.01    |
| 86) Perylene-d12            | 15.462 | 264  | 226353   | 20.000 | ng    | -0.01    |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.439  | 112  | 596139   | 73.970 | ng    | 0.00     |
| 7) Phenol-d6                | 6.434  | 99   | 733504   | 72.790 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.363  | 82   | 441452   | 51.193 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.627 | 330  | 146566   | 58.298 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.157  | 172  | 752228   | 46.724 | ng    | -0.01    |
| 79) Terphenyl-d14           | 12.921 | 244  | 619341   | 32.586 | ng    | -0.01    |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene            | 11.351 | 178  | 69918    | 4.227  | ng    | 99       |
| 75) Fluoranthene            | 12.545 | 202  | 142376   | 8.480  | ng    | 95       |
| 78) Pyrene                  | 12.774 | 202  | 135196   | 5.631  | ng    | 96       |
| 81) Benzo(a)anthracene      | 13.968 | 228  | 71291    | 4.378  | ng    | 95       |
| 83) Chrysene                | 14.004 | 228  | 76672    | 4.876  | ng    | 95       |
| 85) Di-n-octyl phthalate    | 14.627 | 149  | 45437m   | 7.947  | ng    |          |
| 87) Indeno(1,2,3-cd)pyrene  | 16.951 | 276  | 27802    | 4.231  | ng    | # 92     |
| 88) Benzo(b)fluoranthene    | 15.027 | 252  | 114165m  | 7.189  | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.051 | 252  | 36704m   | 2.434  | ng    |          |
| 90) Benzo(a)pyrene          | 15.398 | 252  | 53349    | 4.109  | ng    | # 94     |
| 91) Dibenzo(a,h)anthracene  | 16.962 | 278  | 8057m    | 3.273  | ng    |          |
| 92) Benzo(g,h,i)perylene    | 17.409 | 276  | 25317    | 3.685  | ng    | 98       |
| -----                       |        |      |          |        |       |          |

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

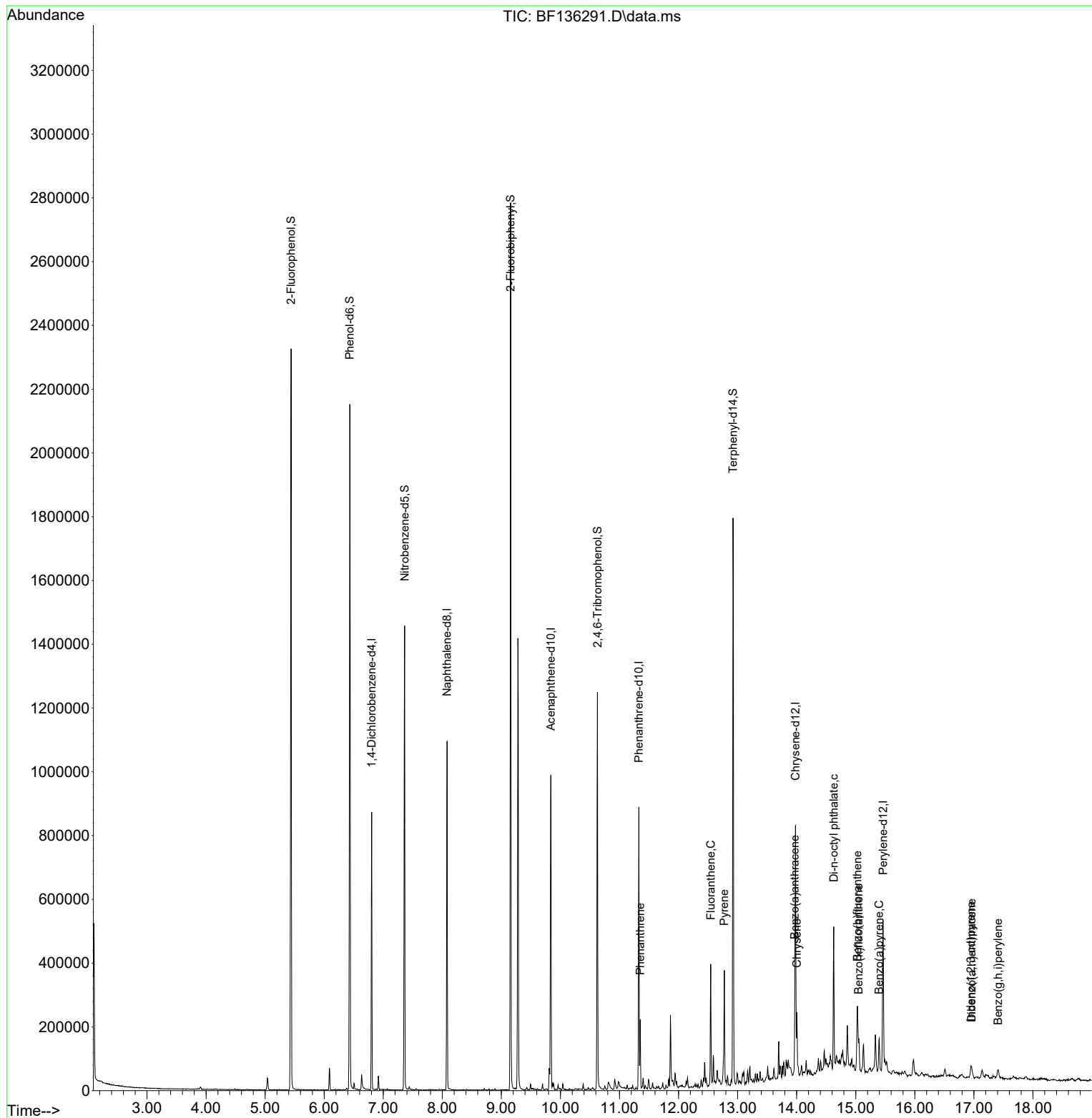
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF112923\  
Data File : BF136291.D  
Acq On : 29 Nov 2023 19:15  
Operator : CG\JU  
Sample : 05503-04  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

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Supervised By :mohammad ahmed 12/01/2023

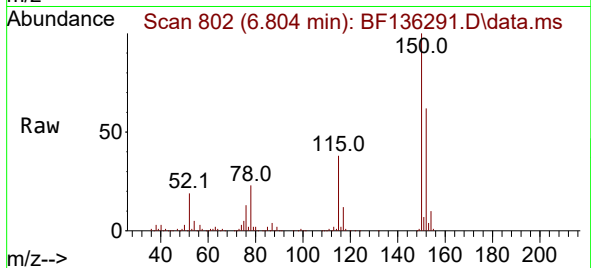
Quant Time: Nov 29 23:48:34 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF112723.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Nov 28 03:04:20 2023  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.804 min Scan# 803  
Delta R.T. -0.006 min  
Lab File: BF136291.D  
Acq: 29 Nov 2023 19:15

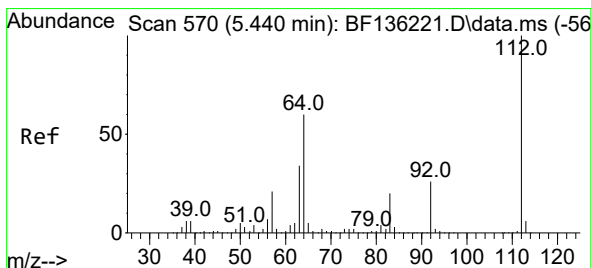
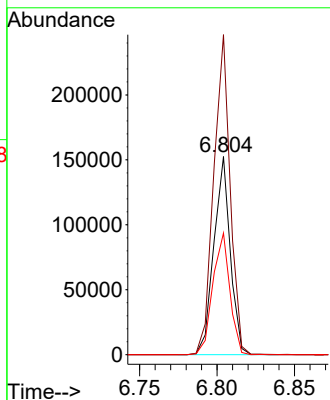
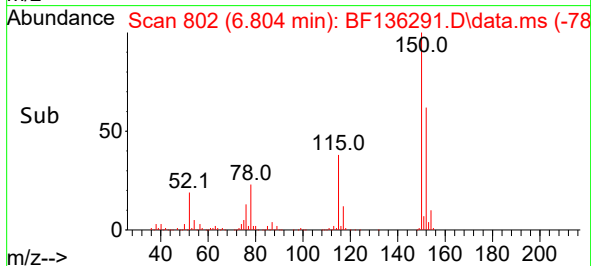
Instrument :  
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72-11998



Tgt Ion:152 Resp: 112172  
Ion Ratio Lower Upper  
152 100  
150 161.6 137.8 206.8  
115 61.4 52.7 79.1

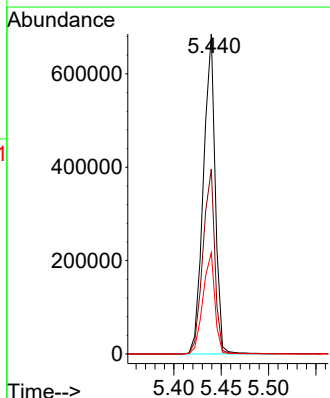
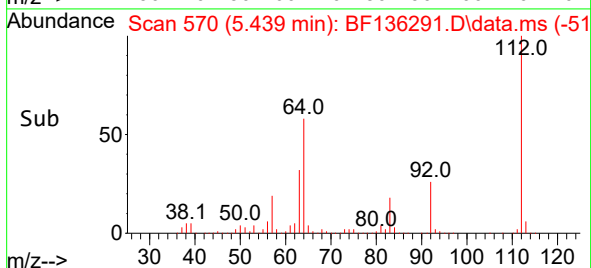
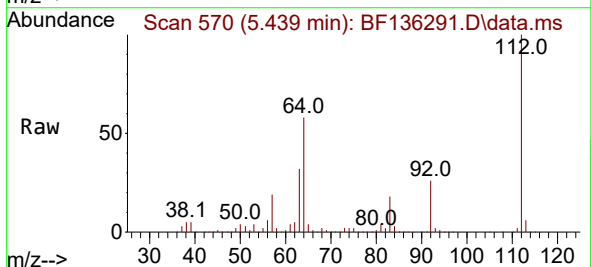
Manual Integrations  
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Supervised By :mohammad ahmed 12/01/2023



#5  
2-Fluorophenol  
Concen: 73.970 ng  
RT: 5.439 min Scan# 570  
Delta R.T. -0.000 min  
Lab File: BF136291.D  
Acq: 29 Nov 2023 19:15

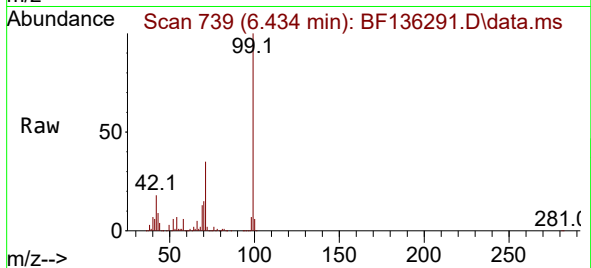
Tgt Ion:112 Resp: 596139  
Ion Ratio Lower Upper  
112 100  
64 57.8 48.2 72.4  
63 31.7 27.0 40.6





#7  
Phenol-d6  
Concen: 72.790 ng  
RT: 6.434 min Scan# 71  
Delta R.T. -0.012 min  
Lab File: BF136291.D  
Acq: 29 Nov 2023 19:15

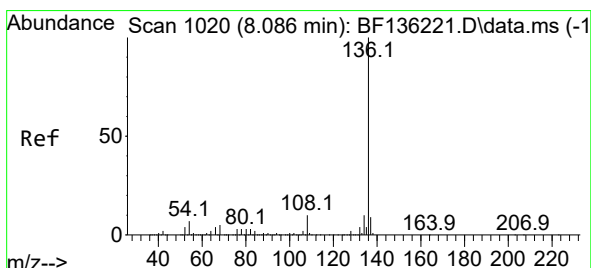
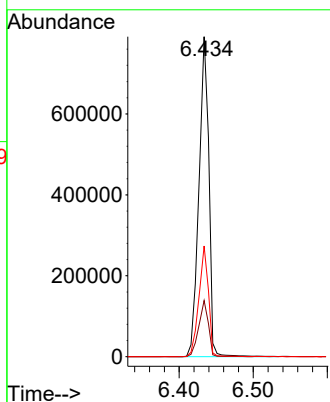
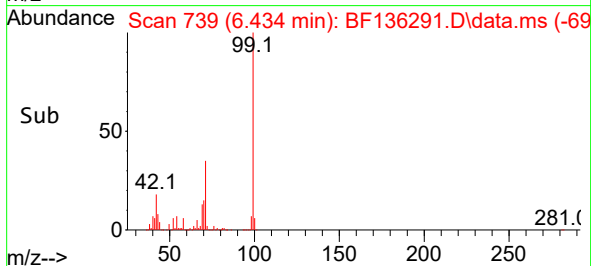
Instrument :  
BNA\_F  
ClientSampleId :  
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Tgt Ion: 99 Resp: 733504  
Ion Ratio Lower Upper  
99 100  
42 17.5 15.0 22.6  
71 34.6 28.9 43.3

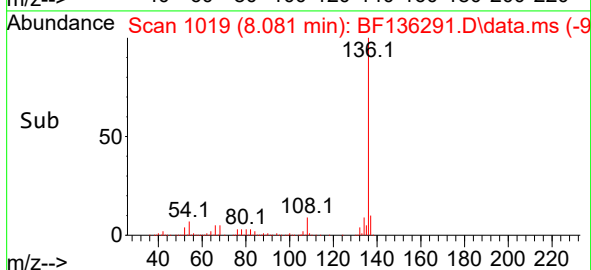
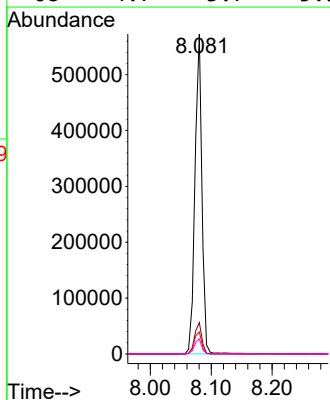
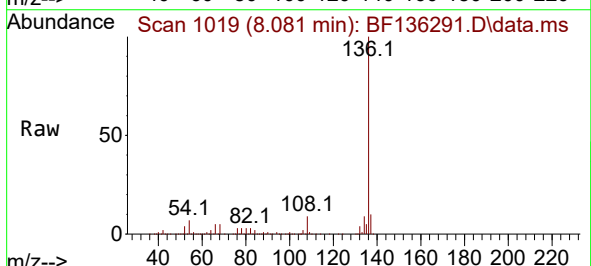
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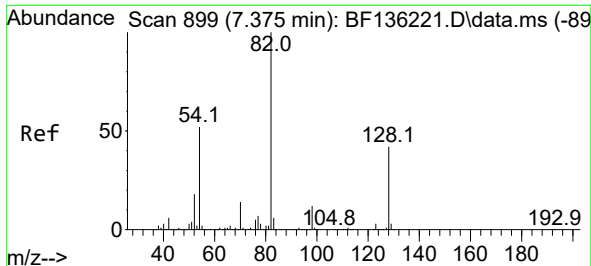
Reviewed By :Yogesh Patel 11/30/2023  
Supervised By :mohammad ahmed 12/01/2023



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.081 min Scan# 1019  
Delta R.T. -0.006 min  
Lab File: BF136291.D  
Acq: 29 Nov 2023 19:15

Tgt Ion:136 Resp: 455679  
Ion Ratio Lower Upper  
136 100  
137 9.8 7.4 11.2  
54 6.9 5.5 8.3  
68 4.7 3.7 5.5





#23

Nitrobenzene-d5

Concen: 51.193 ng

RT: 7.363 min Scan# 89

Delta R.T. -0.012 min

Lab File: BF136291.D

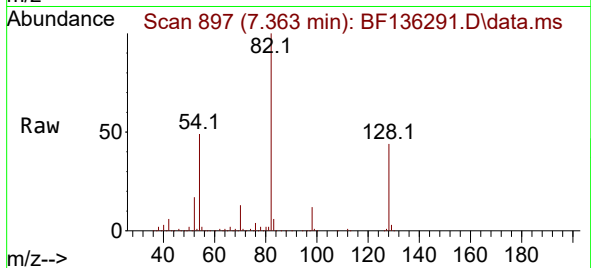
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Instrument :

BNA\_F

ClientSampleId :

72-11998

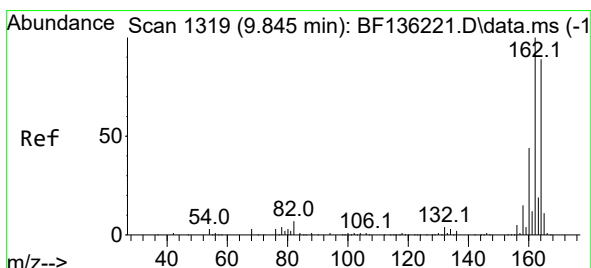
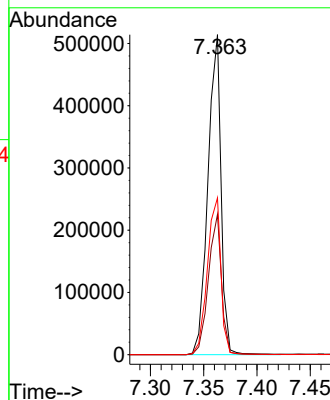
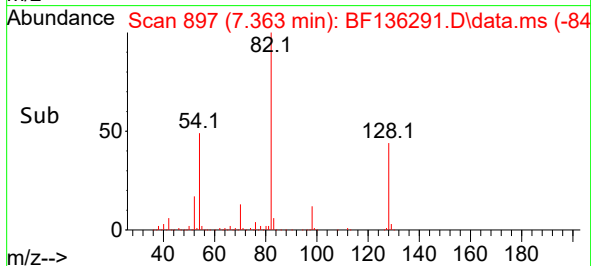


Tgt Ion: 82 Resp: 441452

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 43.9  | 33.4  | 50.2  |
| 54  | 49.0  | 41.7  | 62.5  |

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#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.839 min Scan# 1318

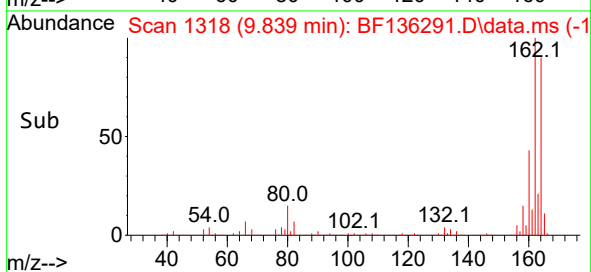
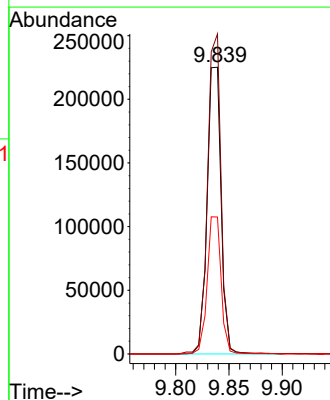
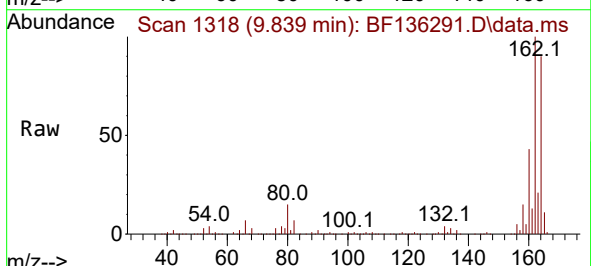
Delta R.T. -0.006 min

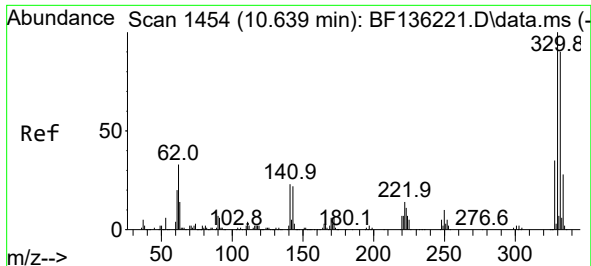
Lab File: BF136291.D

Acq: 29 Nov 2023 19:15

Tgt Ion:164 Resp: 205637

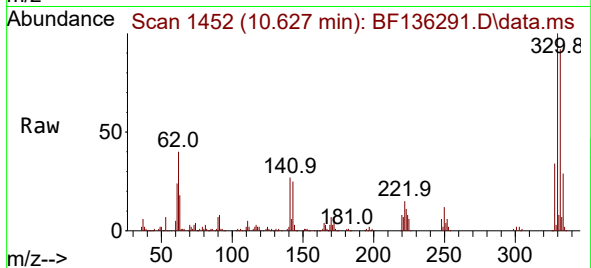
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 111.6 | 89.5  | 134.3 |
| 160 | 47.8  | 39.6  | 59.4  |





#42  
2,4,6-Tribromophenol  
Concen: 58.298 ng  
RT: 10.627 min Scan# 1454  
Delta R.T. -0.012 min  
Lab File: BF136291.D  
Acq: 29 Nov 2023 19:15

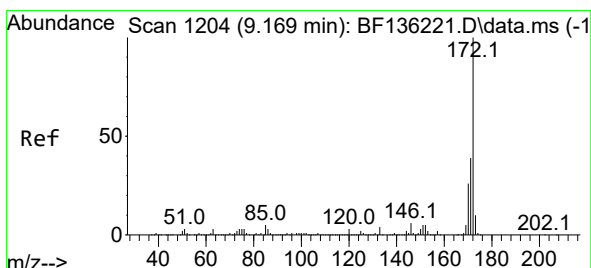
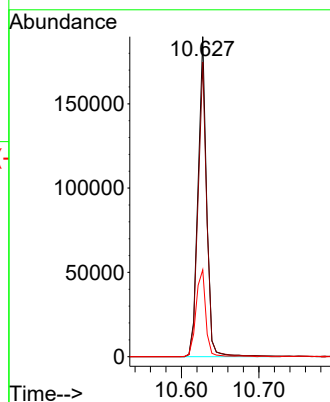
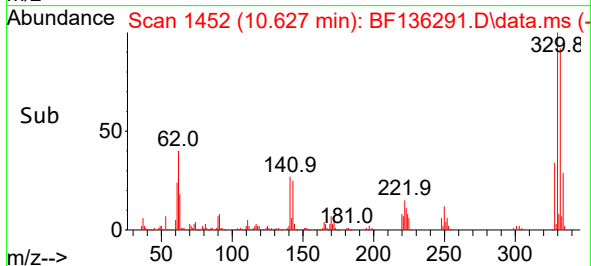
Instrument :  
BNA\_F  
ClientSampleId :  
72-11998



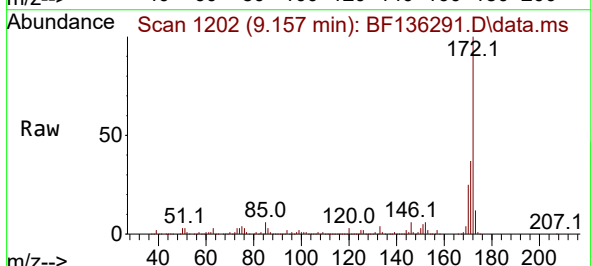
Tgt Ion:330 Resp: 146560  
Ion Ratio Lower Upper  
330 100  
332 94.0 73.0 109.6  
141 30.9 24.2 36.2

Manual Integrations  
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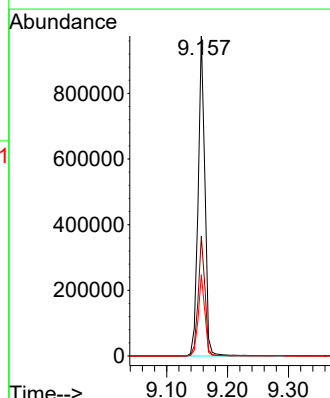
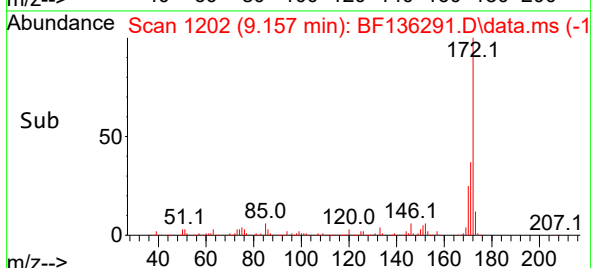
Reviewed By :Yogesh Patel 11/30/2023  
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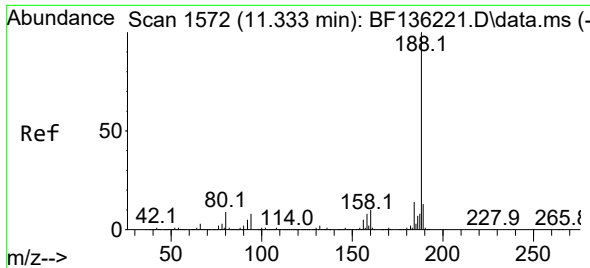


#45  
2-Fluorobiphenyl  
Concen: 46.724 ng  
RT: 9.157 min Scan# 1202  
Delta R.T. -0.012 min  
Lab File: BF136291.D  
Acq: 29 Nov 2023 19:15



Tgt Ion:172 Resp: 752228  
Ion Ratio Lower Upper  
172 100  
171 37.4 31.5 47.3  
170 25.4 20.8 31.2





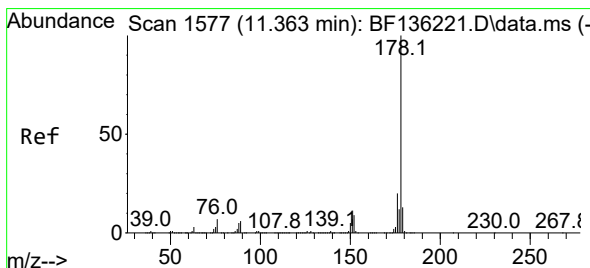
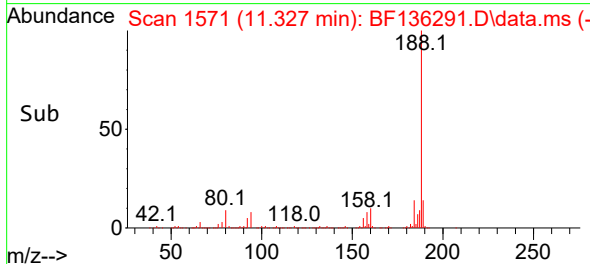
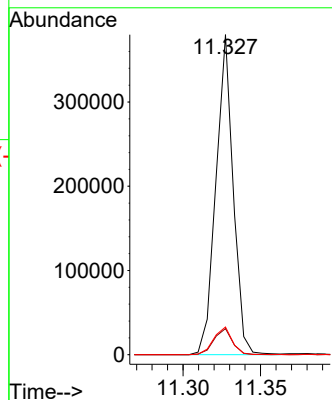
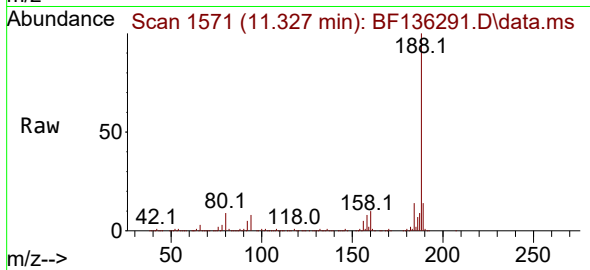
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Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.327 min Scan# 1571  
Delta R.T. -0.006 min  
Lab File: BF136291.D  
Acq: 29 Nov 2023 19:15

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Tgt Ion:188 Resp: 29427  
Ion Ratio Lower Upper  
188 100  
94 8.2 6.7 10.1  
80 8.6 7.2 10.8

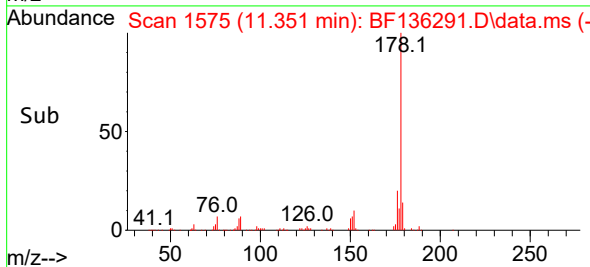
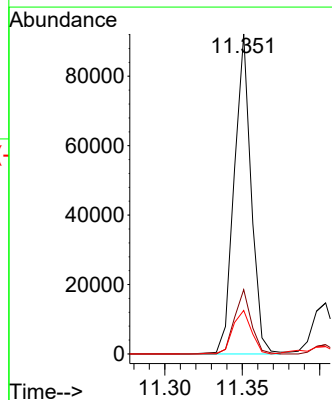
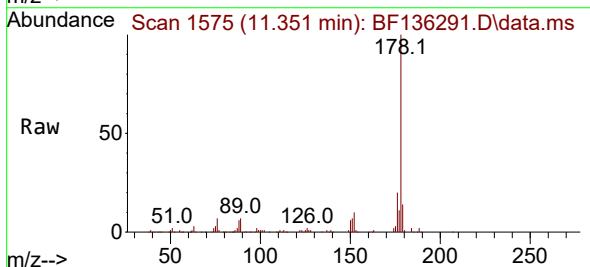
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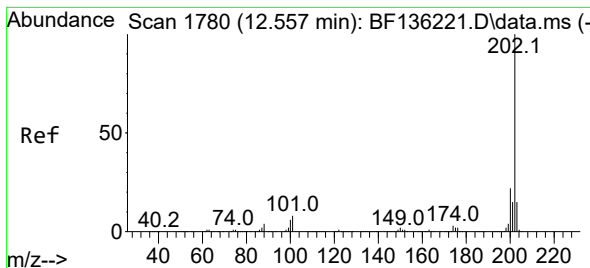
Reviewed By :Yogesh Patel 11/30/2023  
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#71  
Phenanthrene  
Concen: 4.227 ng  
RT: 11.351 min Scan# 1575  
Delta R.T. -0.012 min  
Lab File: BF136291.D  
Acq: 29 Nov 2023 19:15

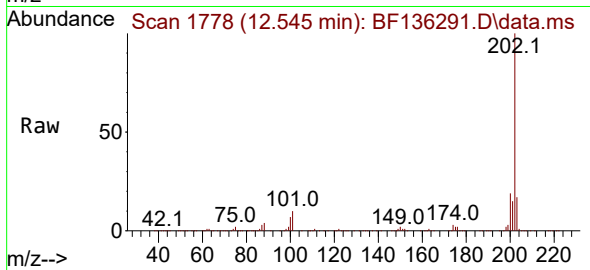
Tgt Ion:178 Resp: 69918  
Ion Ratio Lower Upper  
178 100  
176 20.1 16.2 24.2  
179 13.6 10.3 15.5





#75  
Fluoranthene  
Concen: 8.480 ng  
RT: 12.545 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: BF136291.D  
Acq: 29 Nov 2023 19:15

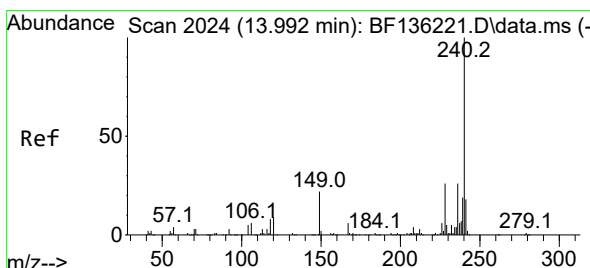
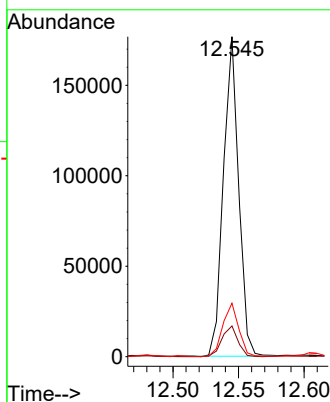
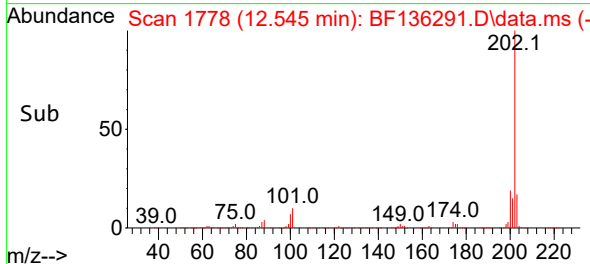
Instrument :  
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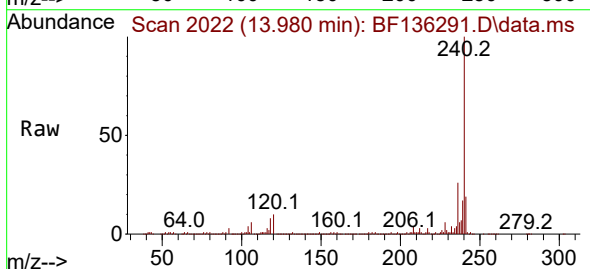
Tgt Ion:202 Resp: 142370  
Ion Ratio Lower Upper  
202 100  
101 9.6 0.0 27.8  
203 16.7 0.0 34.5

Manual Integrations  
APPROVED

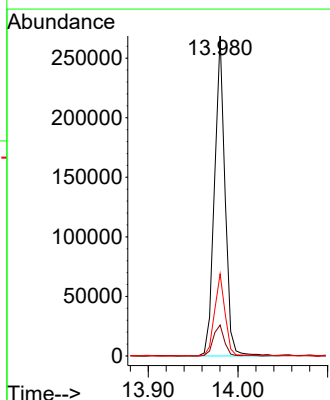
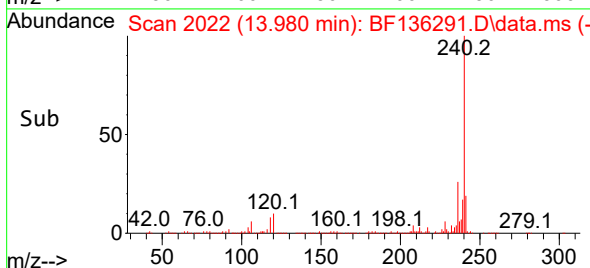
Reviewed By :Yogesh Patel 11/30/2023  
Supervised By :mohammad ahmed 12/01/2023

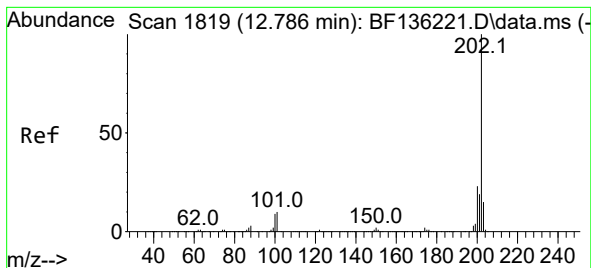


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.980 min Scan# 2022  
Delta R.T. -0.012 min  
Lab File: BF136291.D  
Acq: 29 Nov 2023 19:15



Tgt Ion:240 Resp: 219236  
Ion Ratio Lower Upper  
240 100  
120 9.7 7.4 11.2  
236 25.6 21.1 31.7





#78

Pyrene

Concen: 5.631 ng

RT: 12.774 min Scan# 1817

Delta R.T. -0.012 min

Lab File: BF136291.D

Acq: 29 Nov 2023 19:15

Instrument :

BNA\_F

ClientSampleId :

72-11998

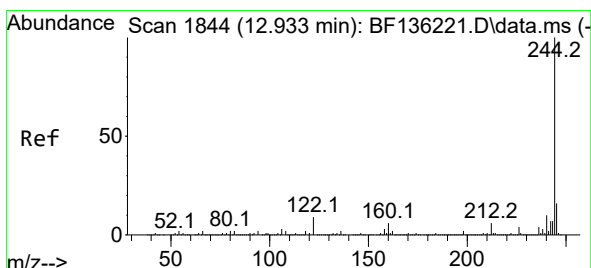
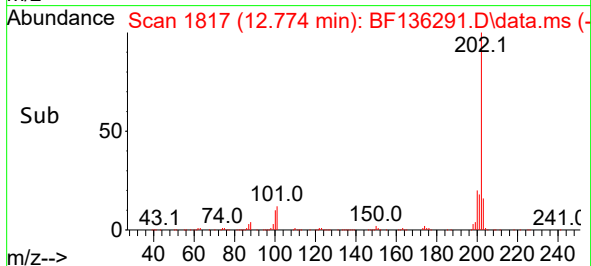
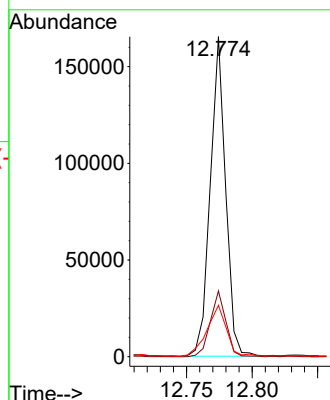
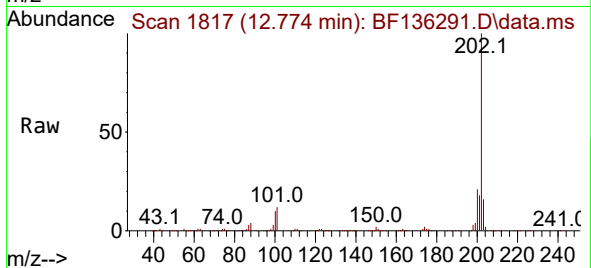
Tgt Ion:202 Resp: 135190  
 Ion Ratio Lower Upper  
 202 100  
 200 20.5 18.4 27.6  
 203 16.0 11.8 17.6

Manual Integrations

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Reviewed By :Yogesh Patel 11/30/2023

Supervised By :mohammad ahmed 12/01/2023



#79

Terphenyl-d14

Concen: 32.586 ng

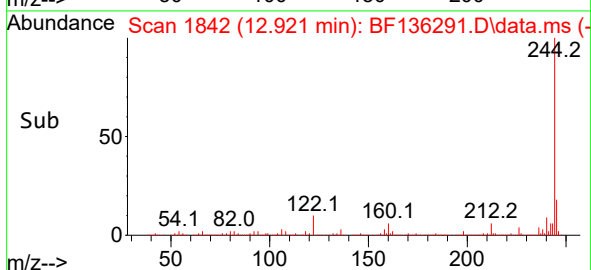
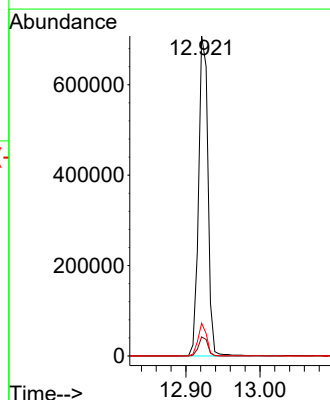
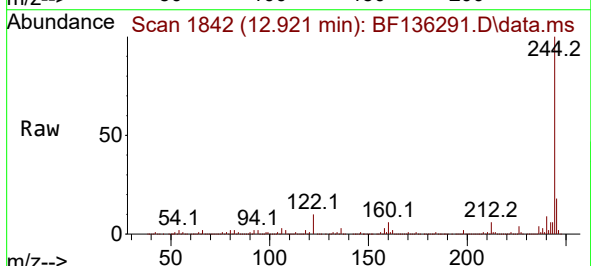
RT: 12.921 min Scan# 1842

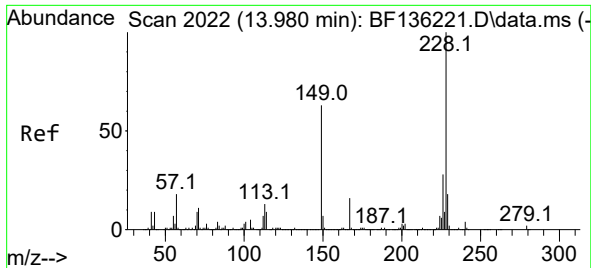
Delta R.T. -0.012 min

Lab File: BF136291.D

Acq: 29 Nov 2023 19:15

Tgt Ion:244 Resp: 619341  
 Ion Ratio Lower Upper  
 244 100  
 212 5.9 4.6 7.0  
 122 10.3 7.3 10.9





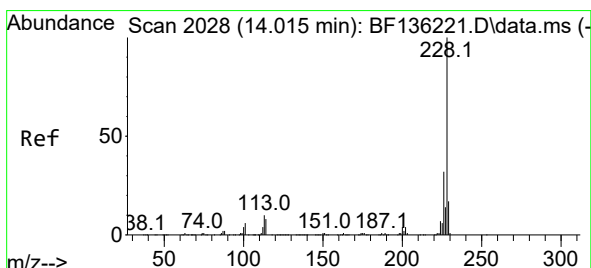
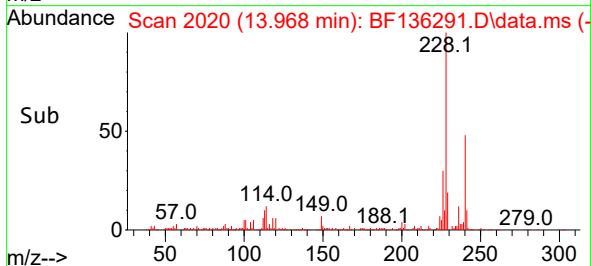
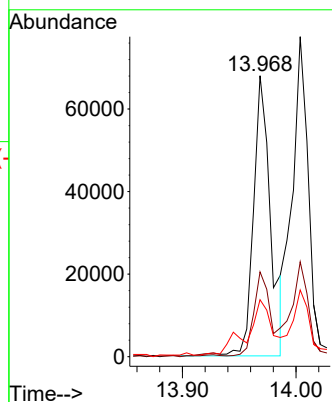
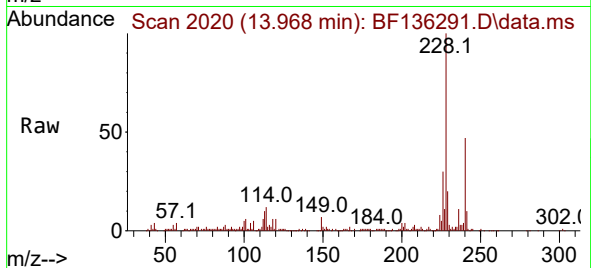
#81  
Benzo(a)anthracene  
Concen: 4.378 ng  
RT: 13.968 min Scan# 2020  
Delta R.T. -0.012 min  
Lab File: BF136291.D  
Acq: 29 Nov 2023 19:15

Instrument :  
BNA\_F  
ClientSampleId :  
72-11998

Tgt Ion:228 Resp: 7129  
Ion Ratio Lower Upper  
228 100  
226 30.2 22.6 34.0  
229 20.3 14.0 21.0

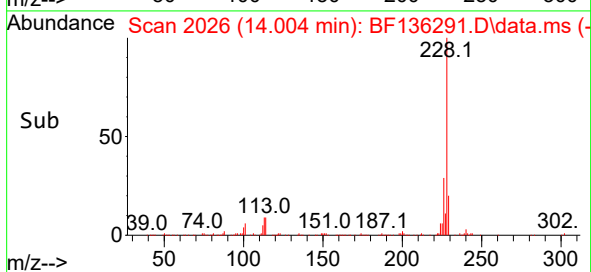
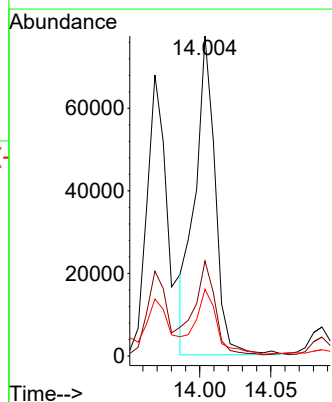
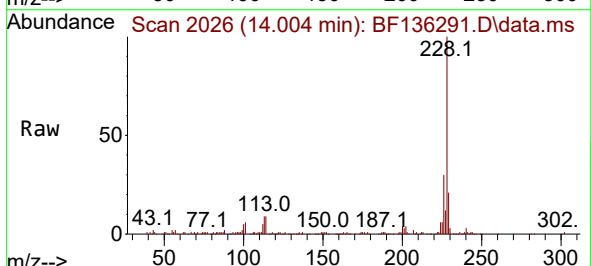
Manual Integrations  
APPROVED

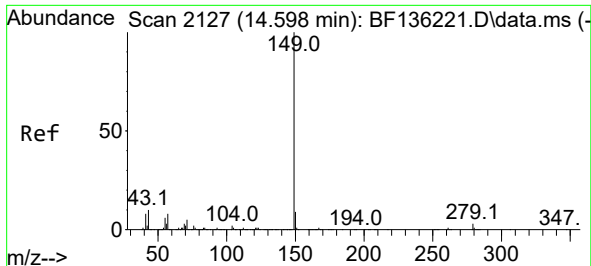
Reviewed By :Yogesh Patel 11/30/2023  
Supervised By :mohammad ahmed 12/01/2023



#83  
Chrysene  
Concen: 4.876 ng  
RT: 14.004 min Scan# 2026  
Delta R.T. -0.012 min  
Lab File: BF136291.D  
Acq: 29 Nov 2023 19:15

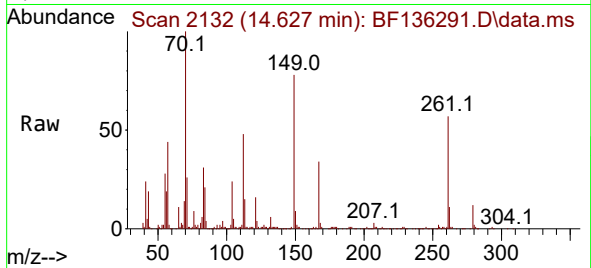
Tgt Ion:228 Resp: 76672  
Ion Ratio Lower Upper  
228 100  
226 29.7 25.5 38.3  
229 20.8 13.9 20.9





#85  
Di-n-octyl phthalate  
Concen: 7.947 ng m  
RT: 14.627 min Scan# 2127  
Delta R.T. 0.029 min  
Lab File: BF136291.D  
Acq: 29 Nov 2023 19:15

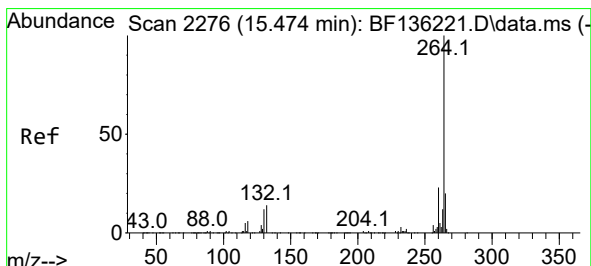
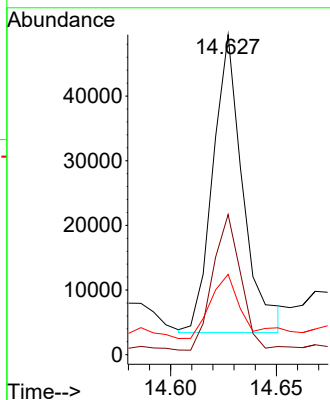
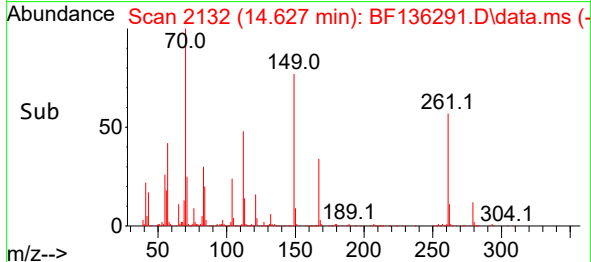
Instrument :  
BNA\_F  
ClientSampleId :  
72-11998



Tgt Ion:149 Resp: 4543  
Ion Ratio Lower Upper  
149 100  
167 1.5 1.0 1.6  
43 9.0 7.2 10.8

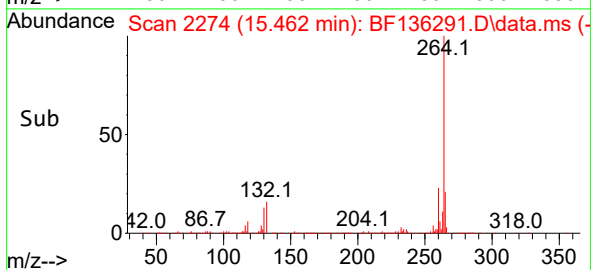
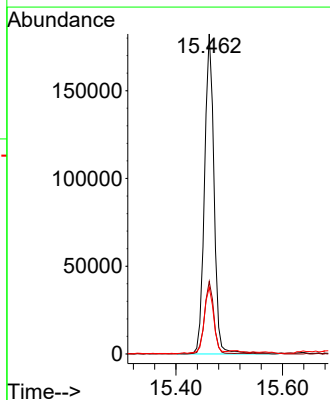
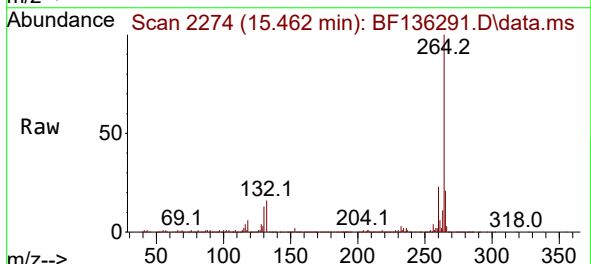
Manual Integrations  
APPROVED

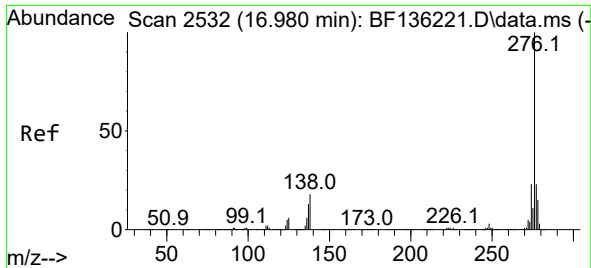
Reviewed By :Yogesh Patel 11/30/2023  
Supervised By :mohammad ahmed 12/01/2023



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.462 min Scan# 2274  
Delta R.T. -0.012 min  
Lab File: BF136291.D  
Acq: 29 Nov 2023 19:15

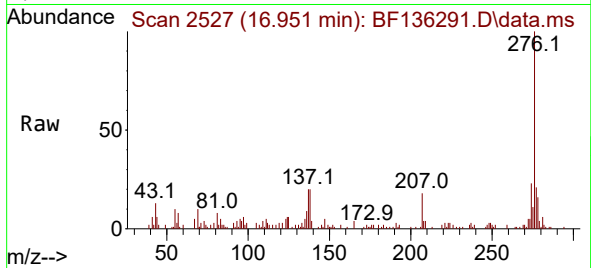
Tgt Ion:264 Resp: 226353  
Ion Ratio Lower Upper  
264 100  
260 22.7 18.6 27.8  
265 20.8 15.7 23.5





#87  
Indeno(1,2,3-cd)pyrene  
Concen: 4.231 ng  
RT: 16.951 min Scan# 21  
Delta R.T. -0.029 min  
Lab File: BF136291.D  
Acq: 29 Nov 2023 19:15

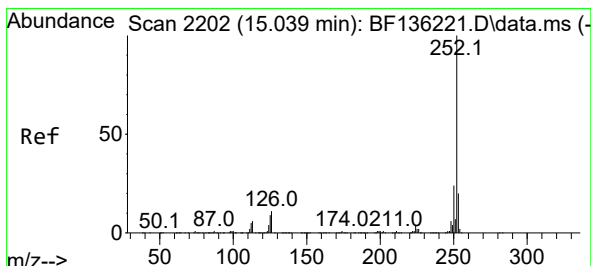
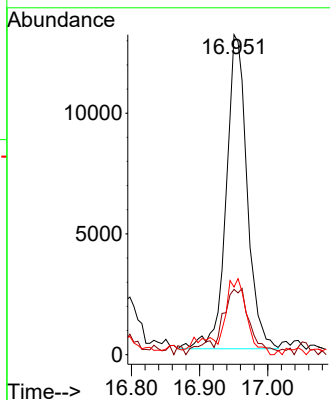
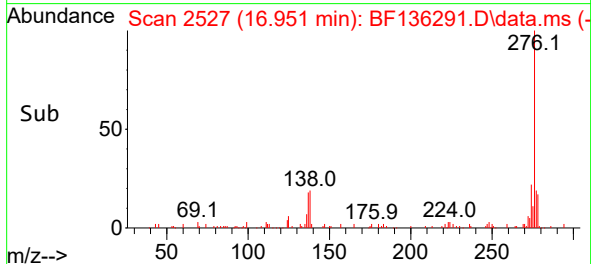
Instrument :  
BNA\_F  
ClientSampleId :  
72-11998



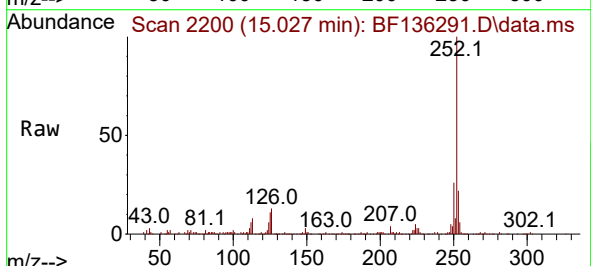
Tgt Ion: 276 Resp: 2780  
Ion Ratio Lower Upper  
276 100  
138 29.3 17.7 26.5  
277 23.6 19.6 29.4

Manual Integrations  
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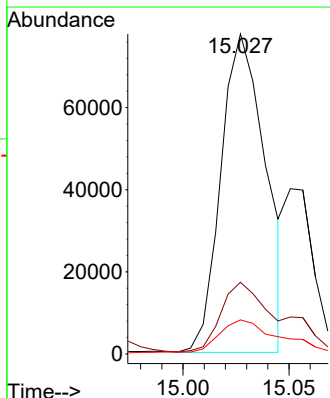
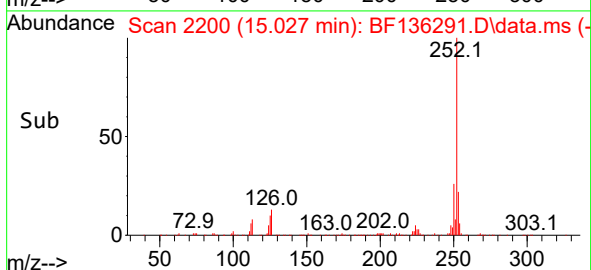
Reviewed By :Yogesh Patel 11/30/2023  
Supervised By :mohammad ahmed 12/01/2023

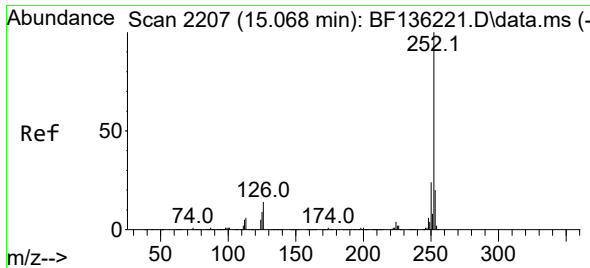


#88  
Benzo(b)fluoranthene  
Concen: 7.189 ng m  
RT: 15.027 min Scan# 2200  
Delta R.T. -0.012 min  
Lab File: BF136291.D  
Acq: 29 Nov 2023 19:15



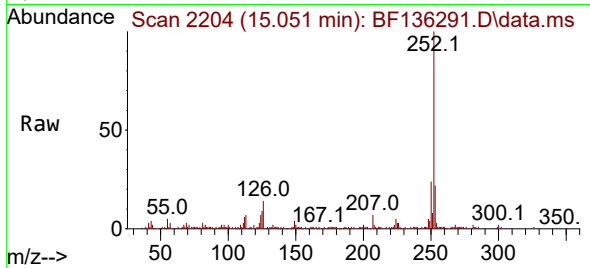
Tgt Ion: 252 Resp: 114165  
Ion Ratio Lower Upper  
252 100  
253 22.4 16.2 24.2  
125 10.6 6.9 10.3#





#89  
Benzo(k)fluoranthene  
Concen: 2.434 ng m  
RT: 15.051 min Scan# 21  
Delta R.T. -0.017 min  
Lab File: BF136291.D  
Acq: 29 Nov 2023 19:15

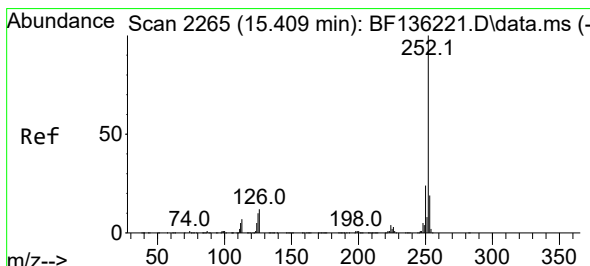
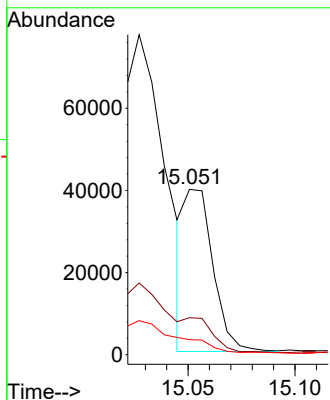
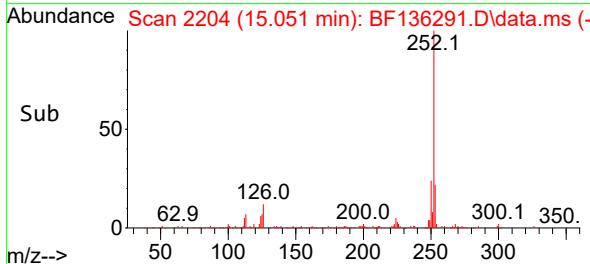
Instrument :  
BNA\_F  
ClientSampleId :  
72-11998



Tgt Ion:252 Resp: 36704  
Ion Ratio Lower Upper  
252 100  
253 22.4 15.6 23.4  
125 9.1 7.0 10.4

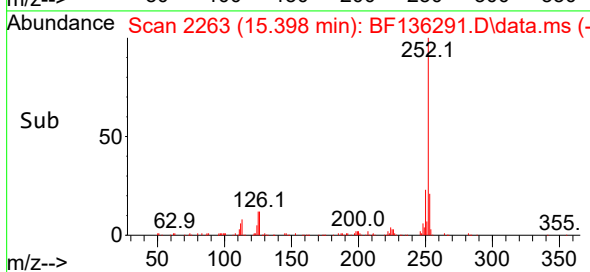
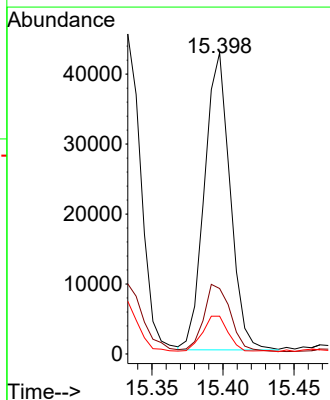
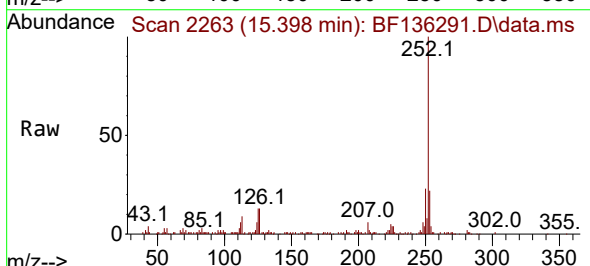
Manual Integrations  
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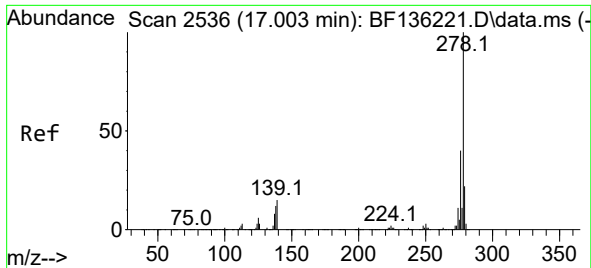
Reviewed By :Yogesh Patel 11/30/2023  
Supervised By :mohammad ahmed 12/01/2023



#90  
Benzo(a)pyrene  
Concen: 4.109 ng  
RT: 15.398 min Scan# 2263  
Delta R.T. -0.011 min  
Lab File: BF136291.D  
Acq: 29 Nov 2023 19:15

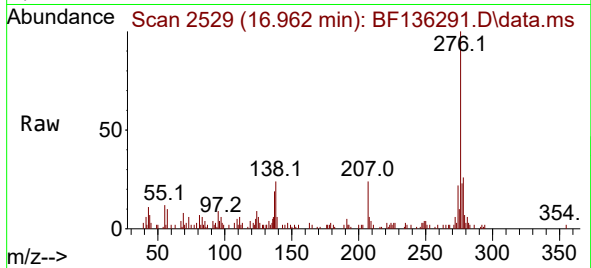
Tgt Ion:252 Resp: 53349  
Ion Ratio Lower Upper  
252 100  
253 21.7 15.5 23.3  
125 12.5 7.9 11.9#





#91  
Dibenzo(a,h)anthracene  
Concen: 3.273 ng m  
RT: 16.962 min Scan# 21  
Delta R.T. -0.041 min  
Lab File: BF136291.D  
Acq: 29 Nov 2023 19:15

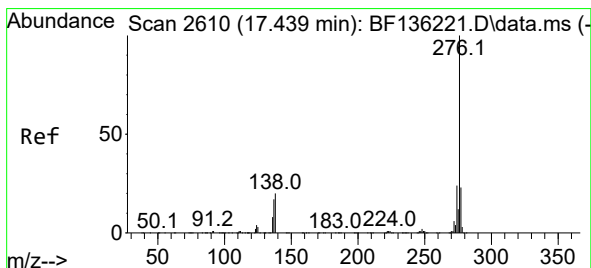
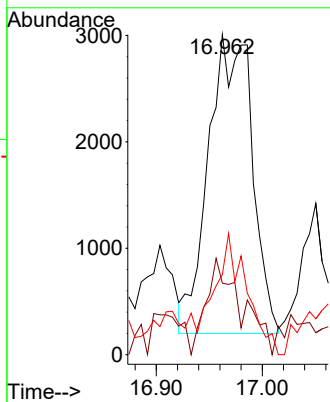
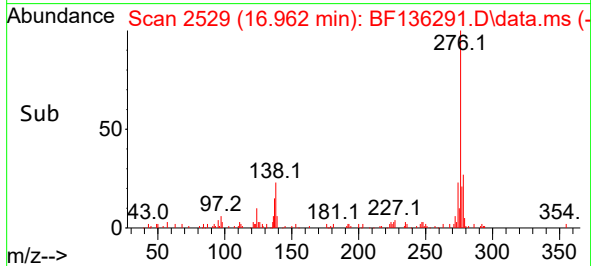
Instrument :  
BNA\_F  
ClientSampleId :  
72-11998



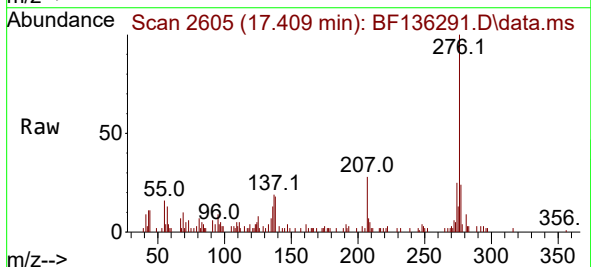
Tgt Ion:278 Resp: 805  
Ion Ratio Lower Upper  
278 100  
139 22.4 11.7 17.5  
279 25.0 17.8 26.8

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 11/30/2023  
Supervised By :mohammad ahmed 12/01/2023



#92  
Benzo(g,h,i)perylene  
Concen: 3.685 ng  
RT: 17.409 min Scan# 2605  
Delta R.T. -0.030 min  
Lab File: BF136291.D  
Acq: 29 Nov 2023 19:15



Tgt Ion:276 Resp: 25317  
Ion Ratio Lower Upper  
276 100  
277 23.7 18.6 27.8  
138 18.4 15.8 23.8

