

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF041823\  
 Data File : BF132911.D  
 Acq On : 18 Apr 2023 20:31  
 Operator : CG\JU  
 Sample : 02371-04  
 Misc :  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-23-COMP

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 04/19/2023  
 Supervised By :Jagrut Upadhyay 04/19/2023

Quant Time: Apr 19 03:29:25 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF041723.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Apr 18 04:51:21 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.763  | 152  | 233929   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.045  | 136  | 930311   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.798  | 164  | 473948   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.280 | 188  | 843331   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 13.916 | 240  | 565213   | 20.000 | ng    | -0.01    |
| 86) Perylene-d12            | 15.345 | 264  | 555478   | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.363  | 112  | 1125296  | 75.219 | ng    | 0.00     |
| 7) Phenol-d6                | 6.387  | 99   | 1450429  | 75.979 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.322  | 82   | 864070   | 48.413 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.586 | 330  | 332957   | 70.041 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.122  | 172  | 1571291  | 50.931 | ng    | -0.01    |
| 79) Terphenyl-d14           | 12.869 | 244  | 1743866  | 52.638 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene            | 11.304 | 178  | 459715   | 10.134 | ng    | 99       |
| 75) Fluoranthene            | 12.492 | 202  | 692982   | 15.362 | ng    | 96       |
| 78) Pyrene                  | 12.716 | 202  | 590367   | 12.774 | ng    | 98       |
| 81) Benzo(a)anthracene      | 13.904 | 228  | 302599   | 7.872  | ng    | 98       |
| 83) Chrysene                | 13.939 | 228  | 291974   | 7.642  | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 16.727 | 276  | 108972   | 3.433  | ng    | 96       |
| 88) Benzo(b)fluoranthene    | 14.933 | 252  | 342221m  | 9.891  | ng    |          |
| 89) Benzo(k)fluoranthene    | 14.963 | 252  | 120046m  | 3.483  | ng    |          |
| 90) Benzo(a)pyrene          | 15.280 | 252  | 222851   | 7.050  | ng    | 97       |
| 92) Benzo(g,h,i)perylene    | 17.145 | 276  | 102461   | 3.957  | ng    | 98       |
| -----                       |        |      |          |        |       |          |

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

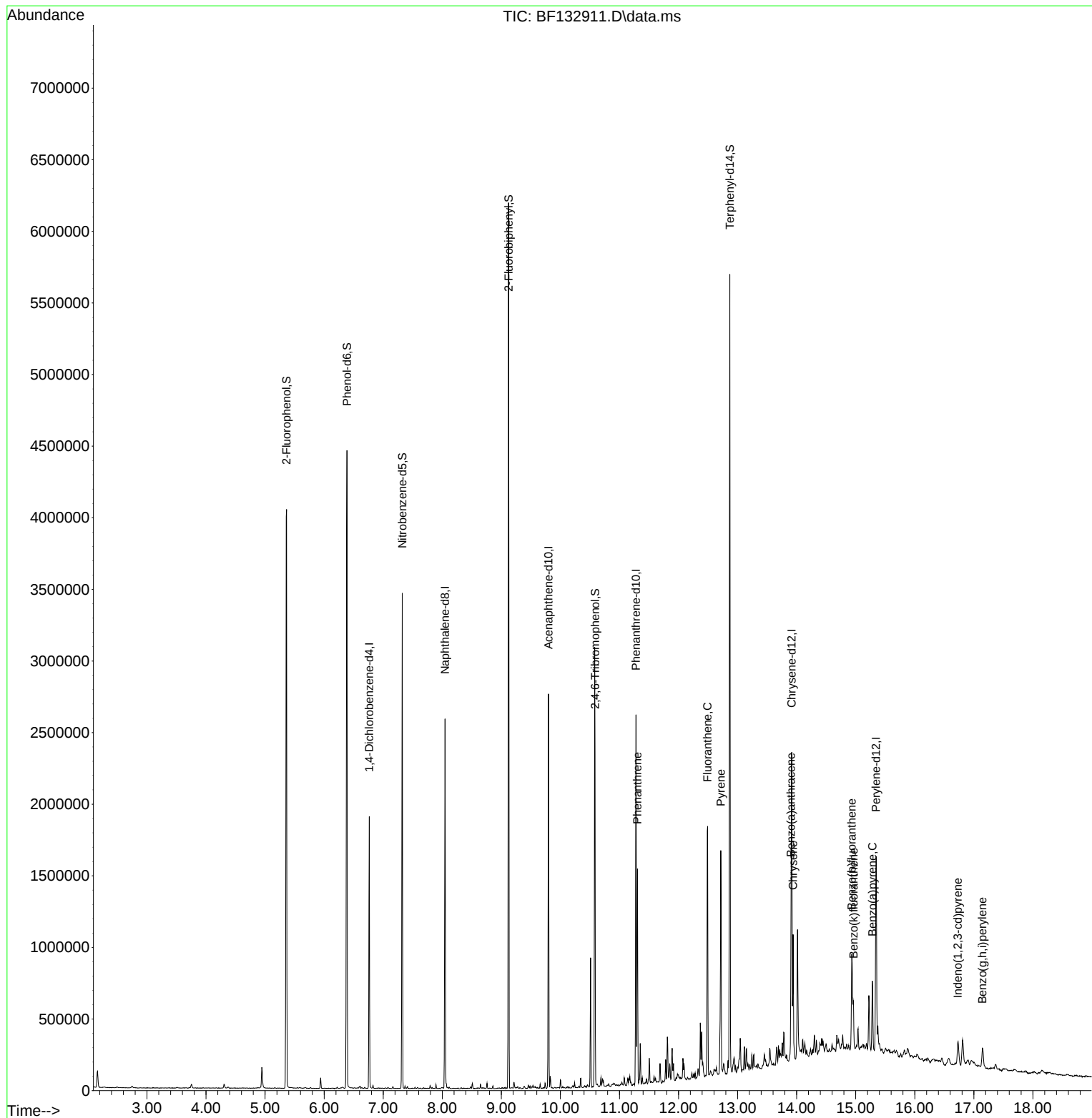
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF041823\  
Data File : BF132911.D  
Acq On : 18 Apr 2023 20:31  
Operator : CG\JU  
Sample : 02371-04  
Misc :  
ALS Vial : 18 Sample Multiplier: 1

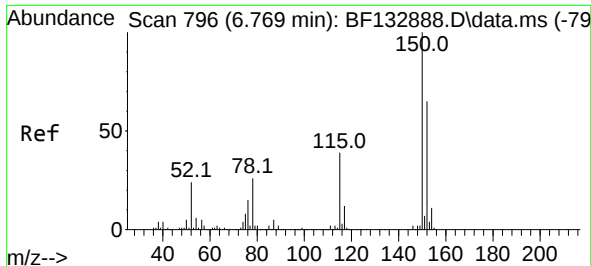
Instrument :  
BNA\_F  
ClientSampleId :  
SB-23-COMP

Quant Time: Apr 19 03:29:25 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF041723.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Apr 18 04:51:21 2023  
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Manual Integrations  
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Supervised By :Jagrut Upadhyay 04/19/2023





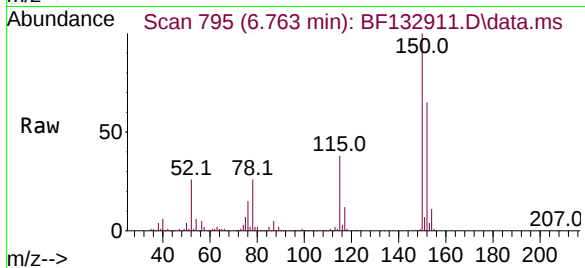
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.763 min Scan# 796  
Delta R.T. -0.006 min  
Lab File: BF132911.D  
Acq: 18 Apr 2023 20:31

Instrument :

BNA\_F

ClientSampleId :

SB-23-COMP

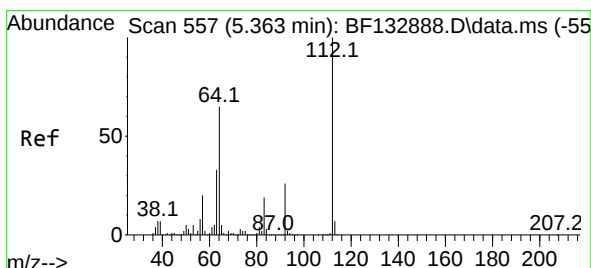
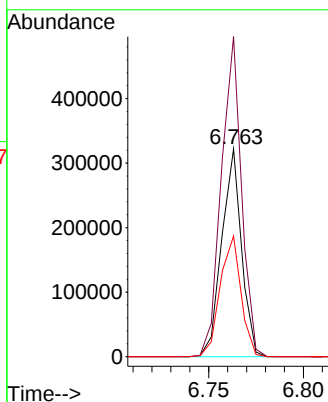
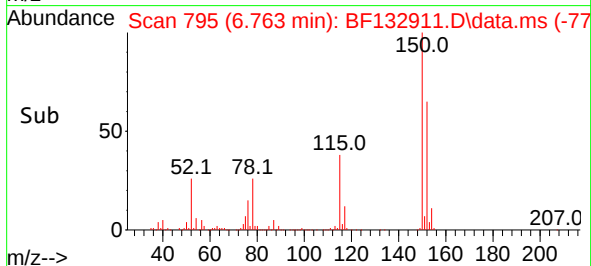


Tgt Ion:152 Resp: 233929  
Ion Ratio Lower Upper  
152 100  
150 154.0 122.8 184.2  
115 58.0 47.3 70.9

Manual Integrations

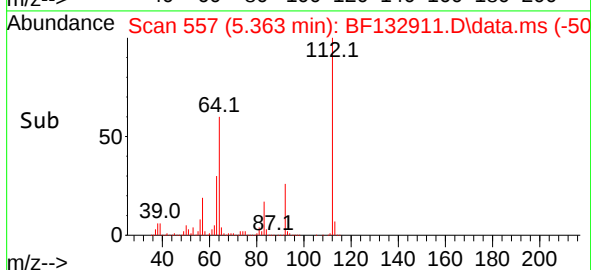
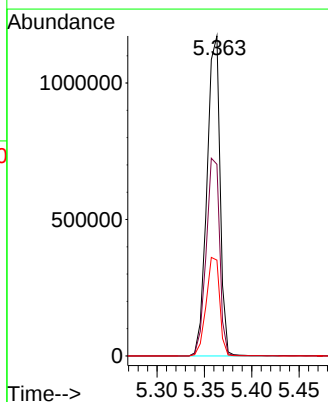
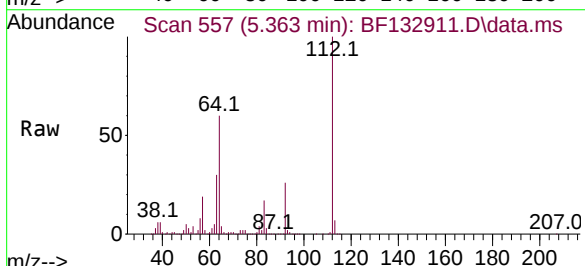
APPROVED

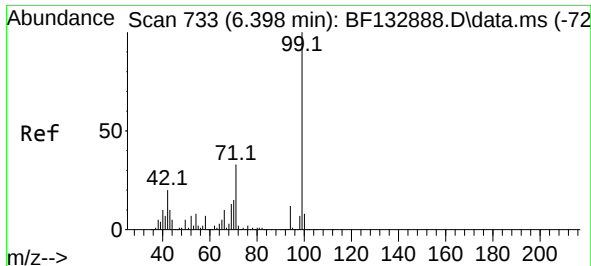
Reviewed By :Yogesh Patel 04/19/2023  
Supervised By :Jagrut Upadhyay 04/19/2023



#5  
2-Fluorophenol  
Concen: 75.219 ng  
RT: 5.363 min Scan# 557  
Delta R.T. 0.000 min  
Lab File: BF132911.D  
Acq: 18 Apr 2023 20:31

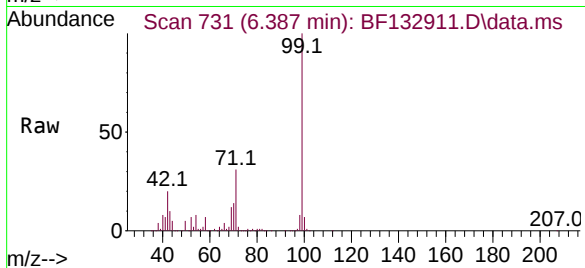
Tgt Ion:112 Resp: 1125296  
Ion Ratio Lower Upper  
112 100  
64 59.9 51.8 77.8  
63 29.9 26.3 39.5





#7  
Phenol-d6  
Concen: 75.979 ng  
RT: 6.387 min Scan# 71  
Delta R.T. -0.012 min  
Lab File: BF132911.D  
Acq: 18 Apr 2023 20:31

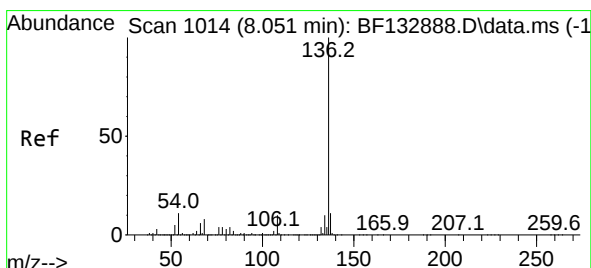
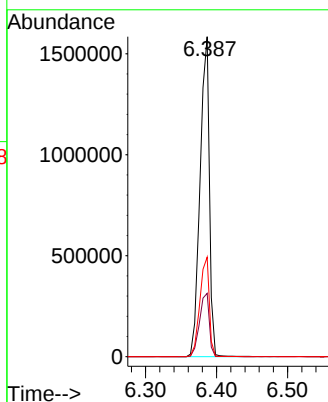
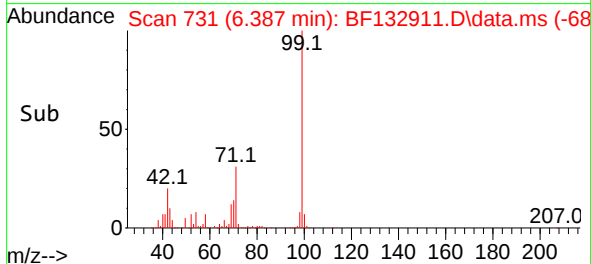
Instrument :  
BNA\_F  
ClientSampleId :  
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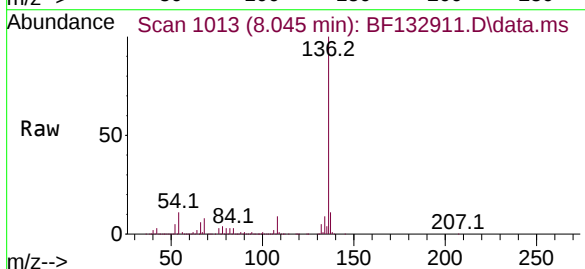
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Ion Ratio Lower Upper  
99 100  
42 19.8 16.1 24.1  
71 31.1 26.1 39.1

Manual Integrations  
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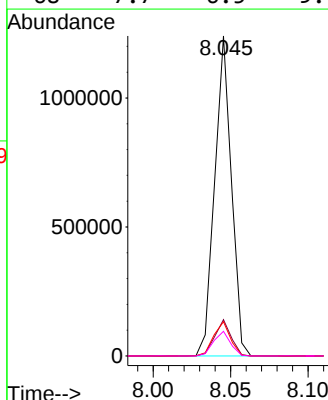
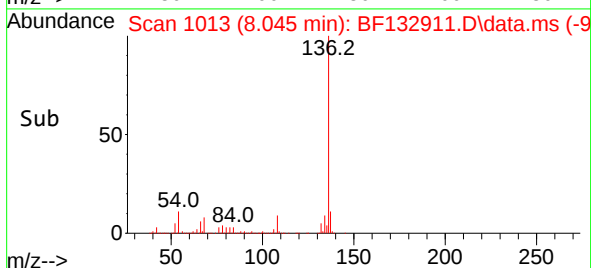
Reviewed By :Yogesh Patel 04/19/2023  
Supervised By :Jagrut Upadhyay 04/19/2023

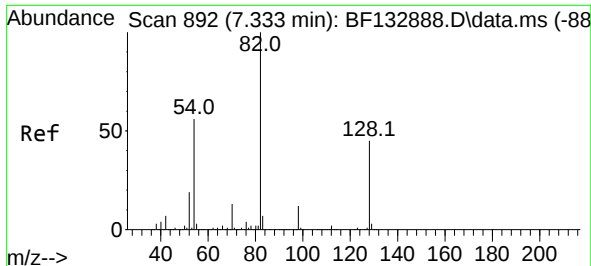


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.045 min Scan# 1013  
Delta R.T. -0.006 min  
Lab File: BF132911.D  
Acq: 18 Apr 2023 20:31



Tgt Ion:136 Resp: 930311  
Ion Ratio Lower Upper  
136 100  
137 11.3 9.0 13.4  
54 10.7 8.9 13.3  
68 7.7 6.5 9.7





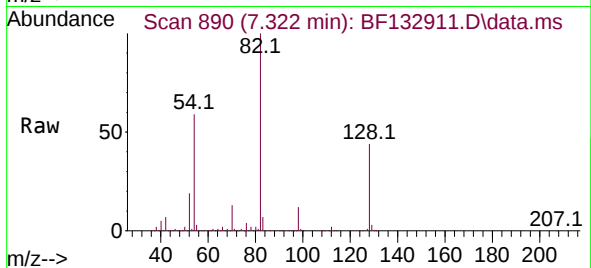
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Nitrobenzene-d5  
Concen: 48.413 ng  
RT: 7.322 min Scan# 892  
Delta R.T. -0.012 min  
Lab File: BF132911.D  
Acq: 18 Apr 2023 20:31

Instrument :

BNA\_F

ClientSampleId :

SB-23-COMP

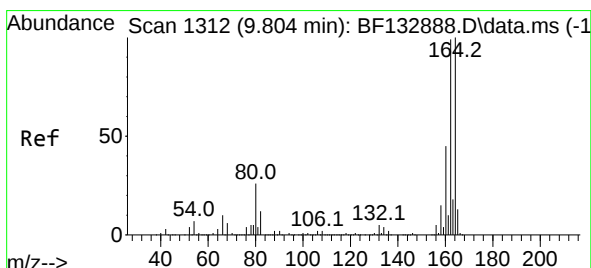
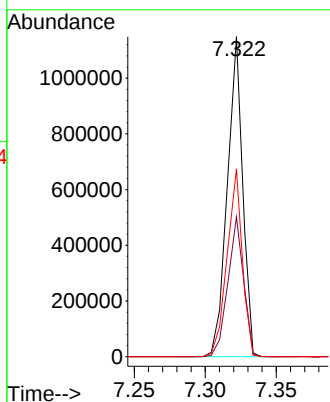
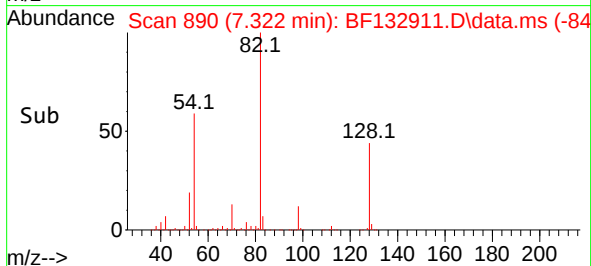


Tgt Ion: 82 Resp: 864070  
Ion Ratio Lower Upper  
82 100  
128 43.7 35.7 53.5  
54 58.7 44.7 67.1

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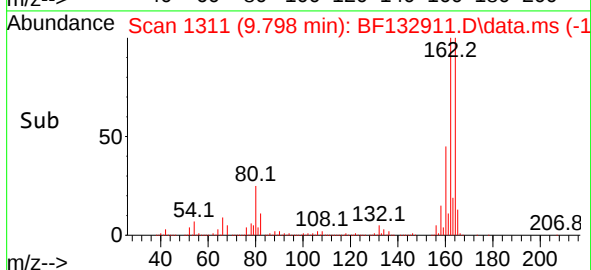
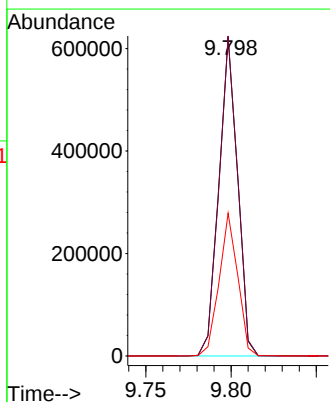
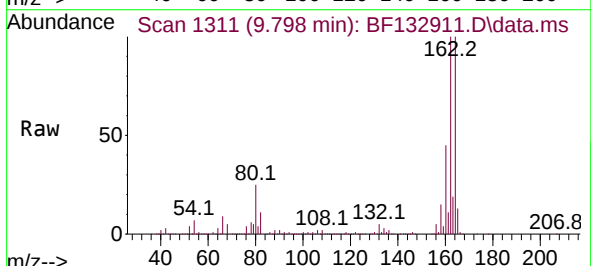
APPROVED

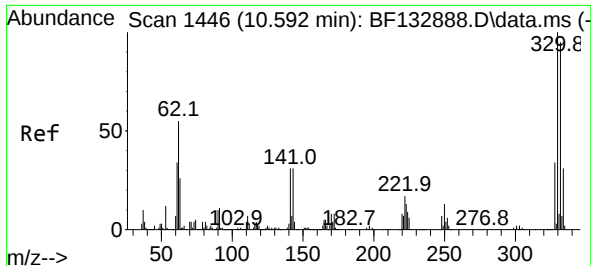
Reviewed By :Yogesh Patel 04/19/2023  
Supervised By :Jagrut Upadhyay 04/19/2023



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.798 min Scan# 1311  
Delta R.T. -0.006 min  
Lab File: BF132911.D  
Acq: 18 Apr 2023 20:31

Tgt Ion:164 Resp: 473948  
Ion Ratio Lower Upper  
164 100  
162 100.3 79.1 118.7  
160 44.7 35.6 53.4





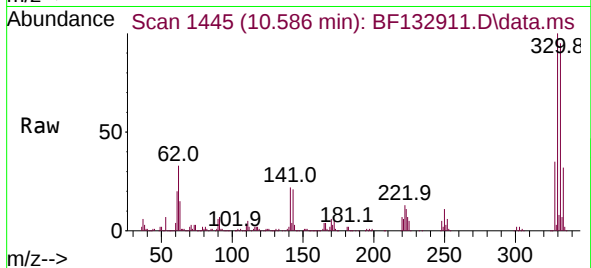
#42  
2,4,6-Tribromophenol  
Concen: 70.041 ng  
RT: 10.586 min Scan# 1445  
Delta R.T. -0.006 min  
Lab File: BF132911.D  
Acq: 18 Apr 2023 20:31

Instrument :

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ClientSampleId :

SB-23-COMP



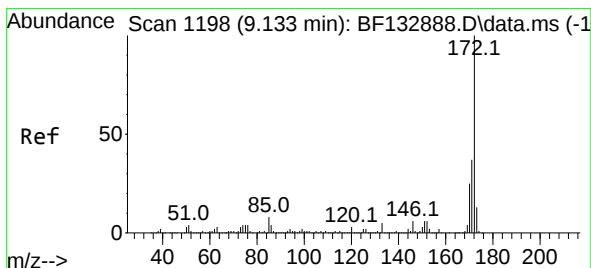
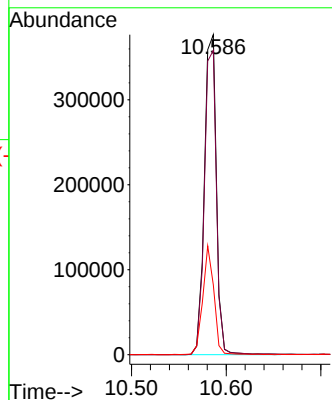
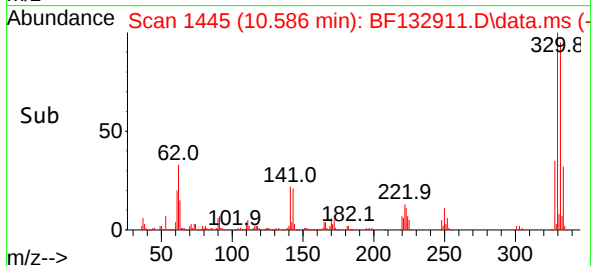
Tgt Ion:330 Resp: 33295  
Ion Ratio Lower Upper  
330 100  
332 95.3 76.3 114.5  
141 31.8 23.9 35.9

Manual Integrations

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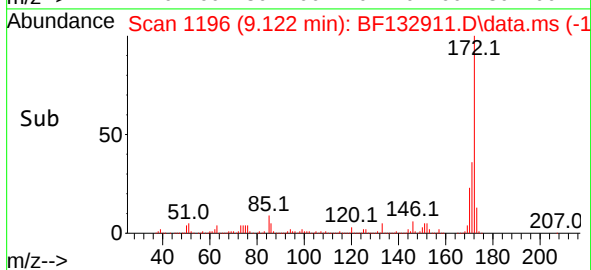
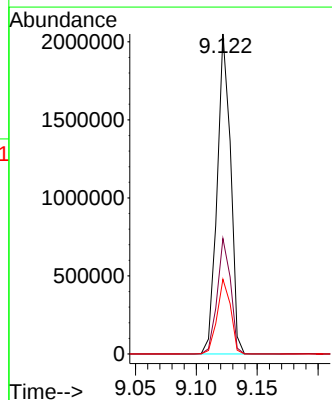
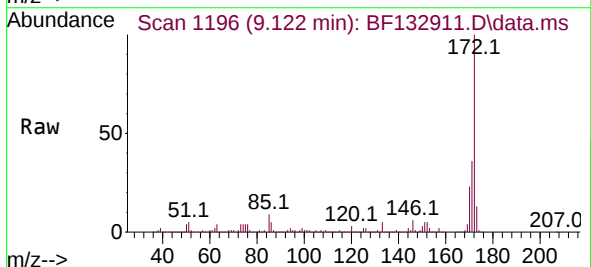
Reviewed By :Yogesh Patel 04/19/2023

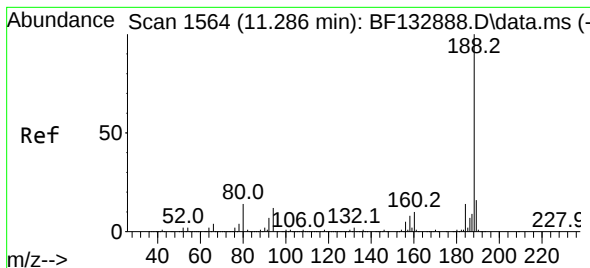
Supervised By :Jagrut Upadhyay 04/19/2023



#45  
2-Fluorobiphenyl  
Concen: 50.931 ng  
RT: 9.122 min Scan# 1196  
Delta R.T. -0.012 min  
Lab File: BF132911.D  
Acq: 18 Apr 2023 20:31

Tgt Ion:172 Resp: 1571291  
Ion Ratio Lower Upper  
172 100  
171 36.1 29.4 44.0  
170 23.4 20.1 30.1





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.280 min Scan# 1563

Delta R.T. -0.006 min

Lab File: BF132911.D

Acq: 18 Apr 2023 20:31

Instrument :

BNA\_F

ClientSampleId :

SB-23-COMP

Tgt Ion:188 Resp: 84333

Ion Ratio Lower Upper

188 100

94 11.8 9.9 14.9

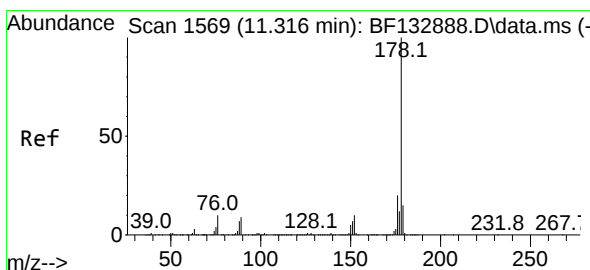
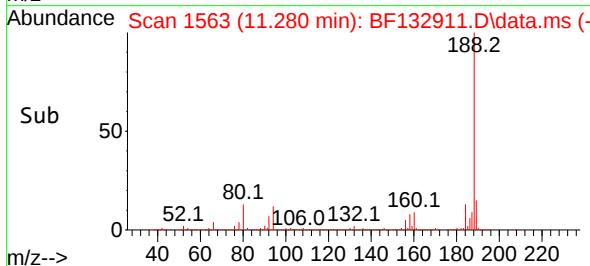
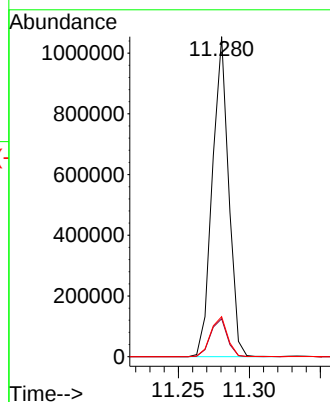
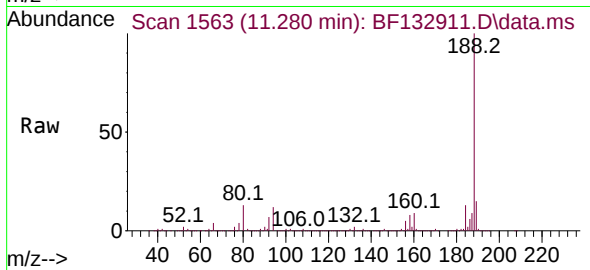
80 12.5 10.8 16.2

Manual Integrations

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Reviewed By :Yogesh Patel 04/19/2023

Supervised By :Jagrut Upadhyay 04/19/2023



#71

Phenanthrene

Concen: 10.134 ng

RT: 11.304 min Scan# 1567

Delta R.T. -0.012 min

Lab File: BF132911.D

Acq: 18 Apr 2023 20:31

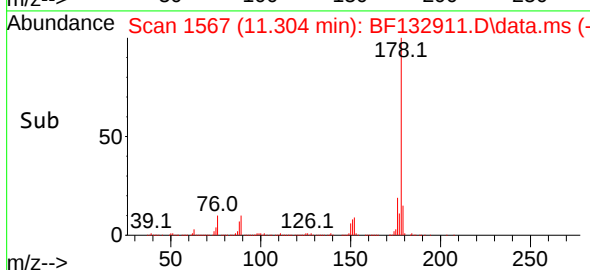
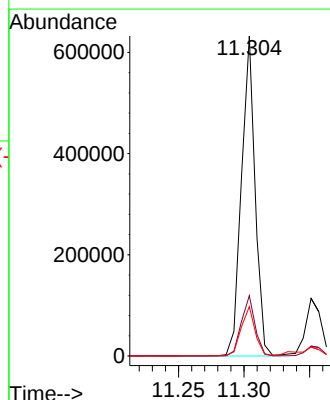
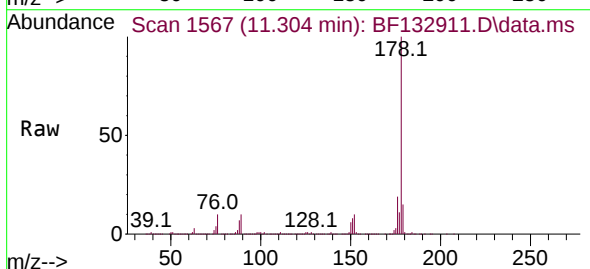
Tgt Ion:178 Resp: 459715

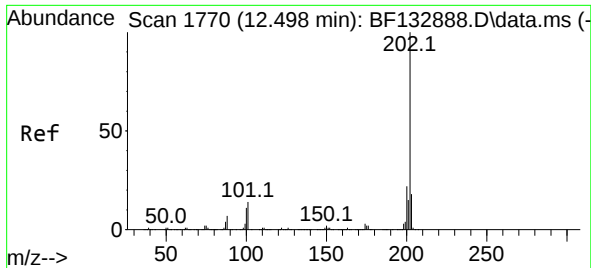
Ion Ratio Lower Upper

178 100

176 18.9 15.9 23.9

179 15.4 12.3 18.5





#75  
Fluoranthene  
Concen: 15.362 ng  
RT: 12.492 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: BF132911.D  
Acq: 18 Apr 2023 20:31

Instrument :

BNA\_F

ClientSampleId :

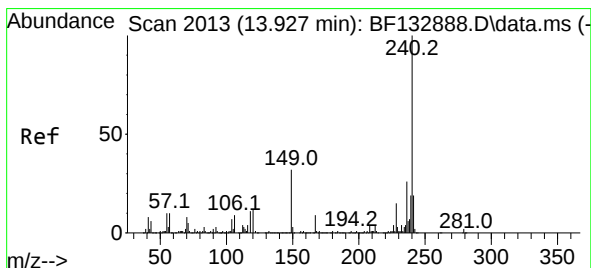
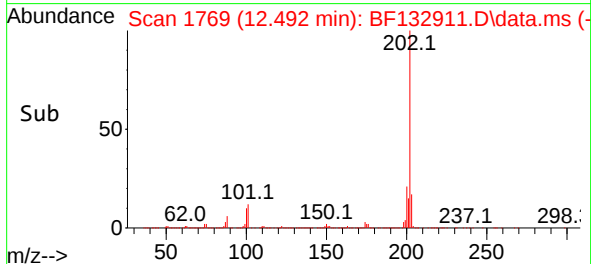
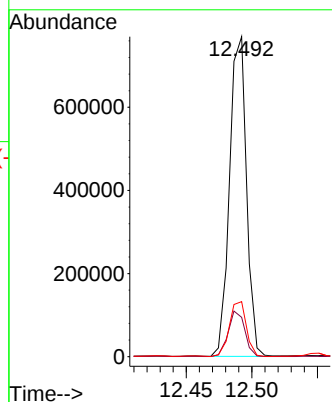
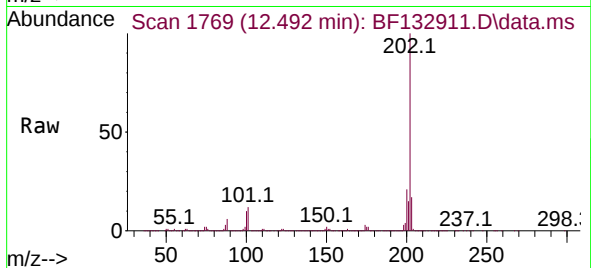
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Tgt Ion:202 Resp: 69298  
Ion Ratio Lower Upper  
202 100  
101 12.3 0.0 34.5  
203 17.2 0.0 38.2

Manual Integrations

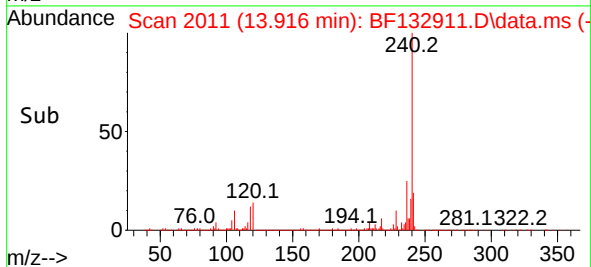
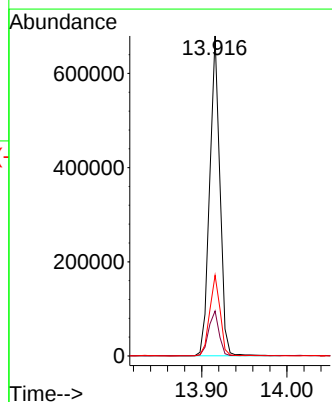
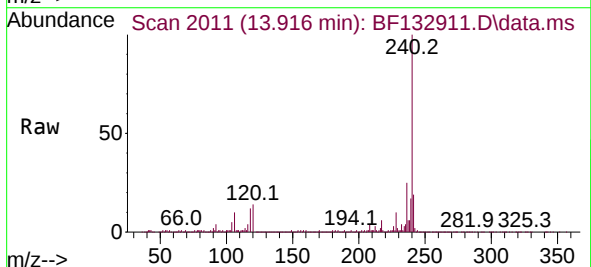
APPROVED

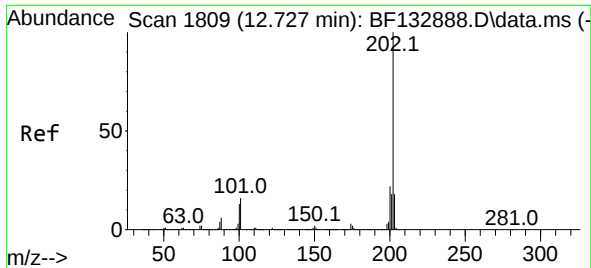
Reviewed By :Yogesh Patel 04/19/2023  
Supervised By :Jagrut Upadhyay 04/19/2023



#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.916 min Scan# 2011  
Delta R.T. -0.012 min  
Lab File: BF132911.D  
Acq: 18 Apr 2023 20:31

Tgt Ion:240 Resp: 565213  
Ion Ratio Lower Upper  
240 100  
120 14.1 10.0 15.0  
236 25.2 20.8 31.2





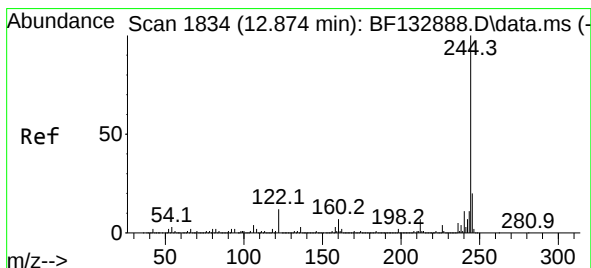
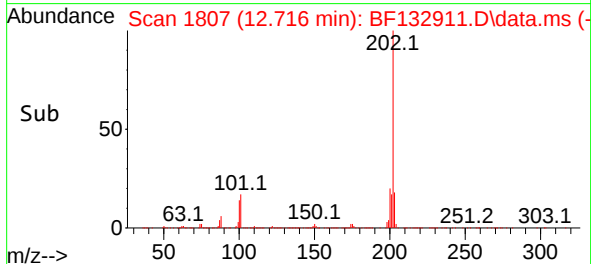
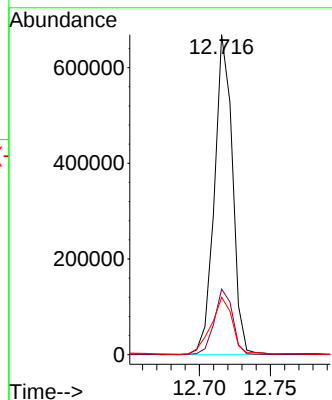
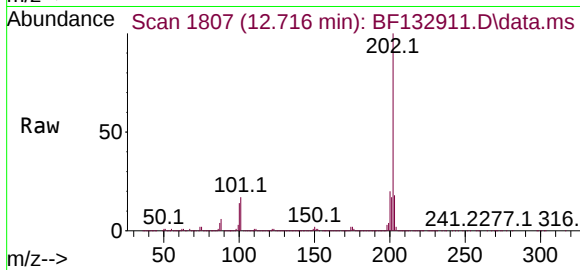
#78  
Pyrene  
Concen: 12.774 ng  
RT: 12.716 min Scan# 1807  
Delta R.T. -0.012 min  
Lab File: BF132911.D  
Acq: 18 Apr 2023 20:31

Instrument :  
BNA\_F  
ClientSampleId :  
SB-23-COMP

Tgt Ion:202 Resp: 59036  
Ion Ratio Lower Upper  
202 100  
200 20.5 17.6 26.4  
203 18.0 14.6 22.0

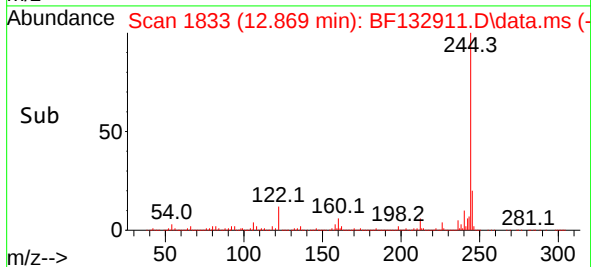
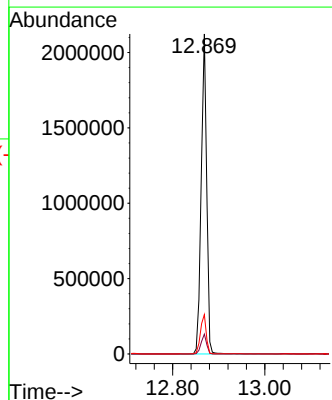
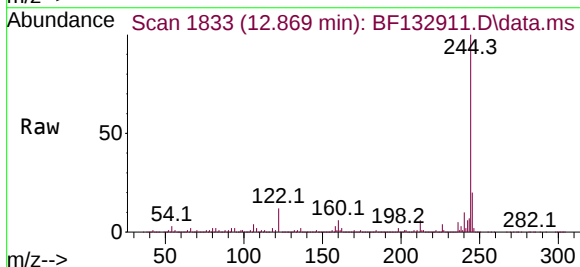
Manual Integrations  
APPROVED

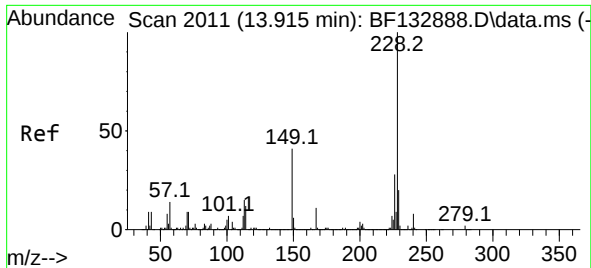
Reviewed By :Yogesh Patel 04/19/2023  
Supervised By :Jagrut Upadhyay 04/19/2023



#79  
Terphenyl-d14  
Concen: 52.638 ng  
RT: 12.869 min Scan# 1833  
Delta R.T. -0.006 min  
Lab File: BF132911.D  
Acq: 18 Apr 2023 20:31

Tgt Ion:244 Resp: 1743866  
Ion Ratio Lower Upper  
244 100  
212 6.2 5.4 8.0  
122 12.3 9.6 14.4





#81  
Benzo(a)anthracene  
Concen: 7.872 ng  
RT: 13.904 min Scan# 2011  
Delta R.T. -0.012 min  
Lab File: BF132911.D  
Acq: 18 Apr 2023 20:31

Instrument :

BNA\_F

ClientSampleId :

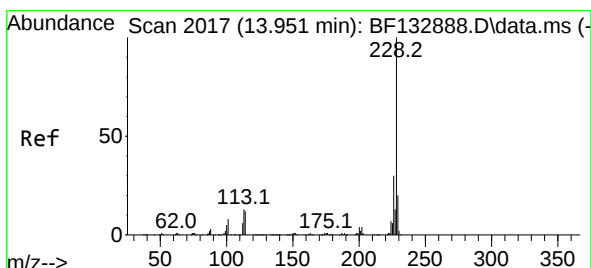
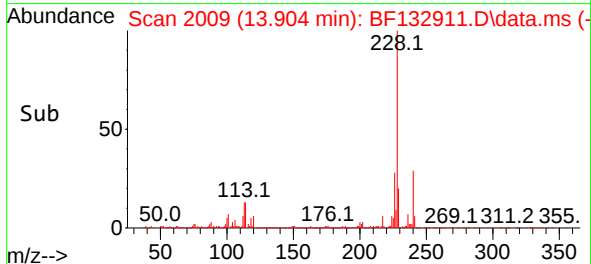
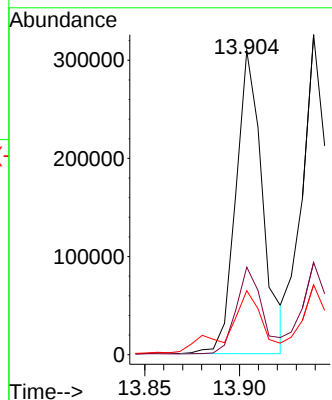
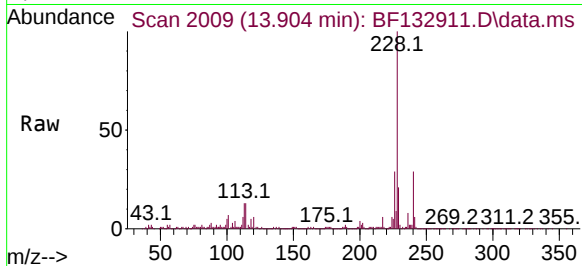
SB-23-COMP

Tgt Ion:228 Resp: 302599  
Ion Ratio Lower Upper  
228 100  
226 28.8 22.4 33.6  
229 21.1 16.2 24.2

Manual Integrations

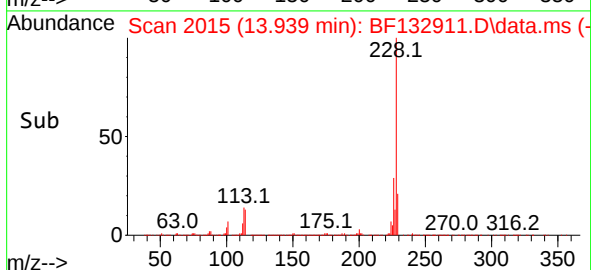
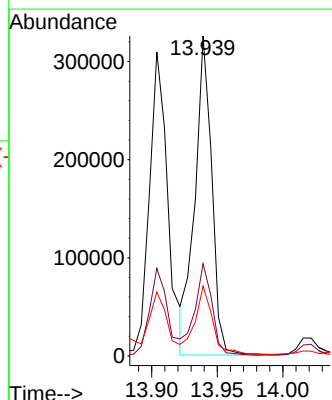
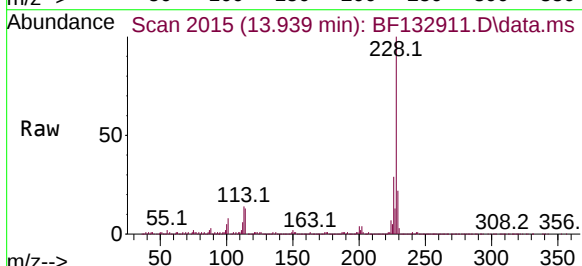
APPROVED

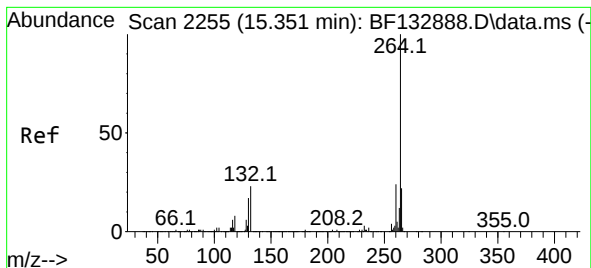
Reviewed By :Yogesh Patel 04/19/2023  
Supervised By :Jagrut Upadhyay 04/19/2023



#83  
Chrysene  
Concen: 7.642 ng  
RT: 13.939 min Scan# 2015  
Delta R.T. -0.012 min  
Lab File: BF132911.D  
Acq: 18 Apr 2023 20:31

Tgt Ion:228 Resp: 291974  
Ion Ratio Lower Upper  
228 100  
226 28.8 24.3 36.5  
229 21.9 16.2 24.4





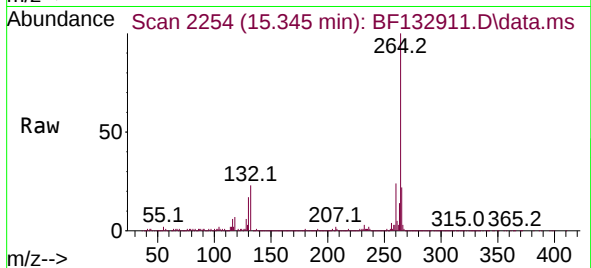
#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.345 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BF132911.D  
Acq: 18 Apr 2023 20:31

Instrument :

BNA\_F

ClientSampleId :

SB-23-COMP

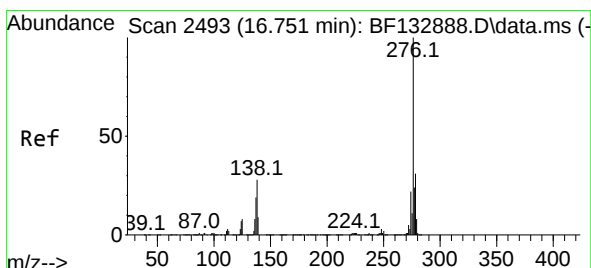
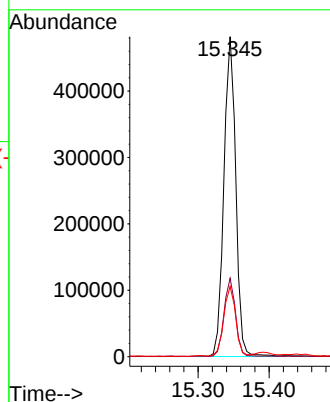
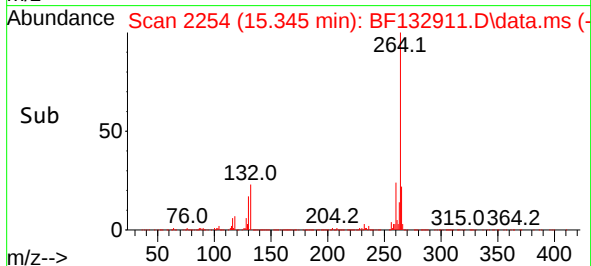


Tgt Ion:264 Resp: 555478  
Ion Ratio Lower Upper  
264 100  
260 24.5 19.0 28.6  
265 21.9 17.7 26.5

Manual Integrations

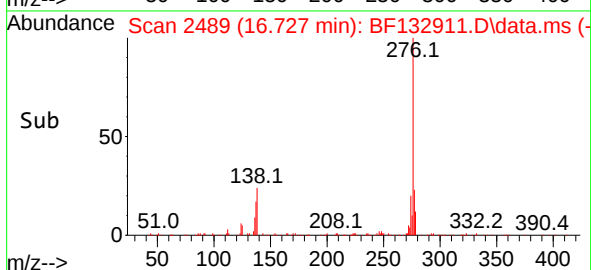
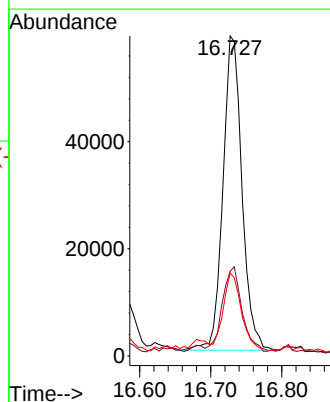
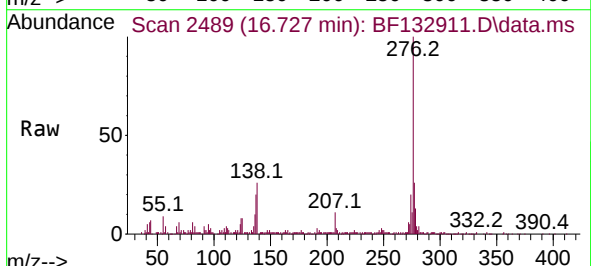
APPROVED

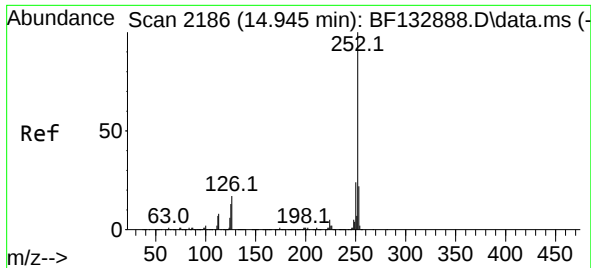
Reviewed By :Yogesh Patel 04/19/2023  
Supervised By :Jagrut Upadhyay 04/19/2023



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 3.433 ng  
RT: 16.727 min Scan# 2489  
Delta R.T. -0.024 min  
Lab File: BF132911.D  
Acq: 18 Apr 2023 20:31

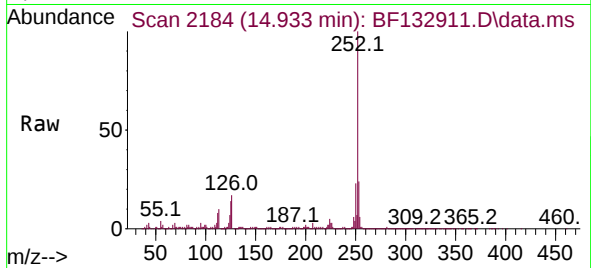
Tgt Ion:276 Resp: 108972  
Ion Ratio Lower Upper  
276 100  
138 28.1 25.5 38.3  
277 25.2 20.3 30.5





#88  
Benzo(b)fluoranthene  
Concen: 9.891 ng m  
RT: 14.933 min Scan# 2184  
Delta R.T. -0.012 min  
Lab File: BF132911.D  
Acq: 18 Apr 2023 20:31

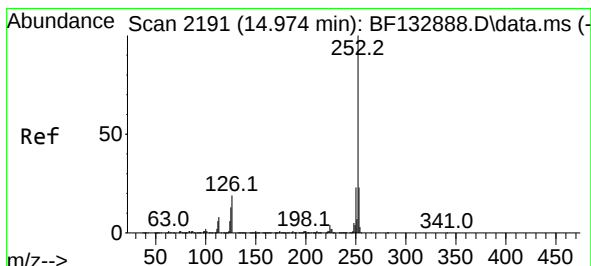
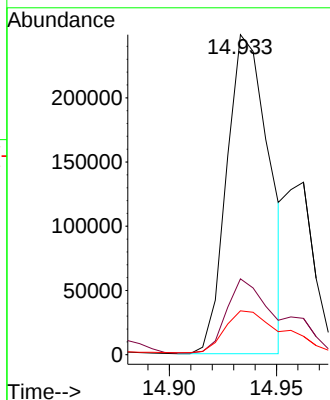
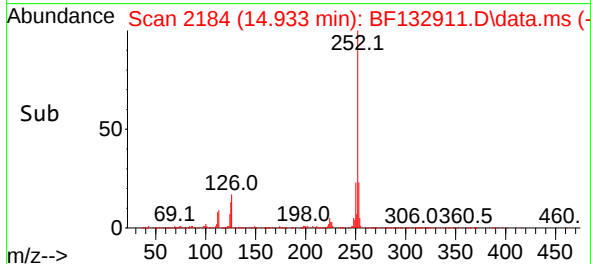
Instrument :  
BNA\_F  
ClientSampleId :  
SB-23-COMP



Tgt Ion:252 Resp: 34222  
Ion Ratio Lower Upper  
252 100  
253 23.7 17.9 26.9  
125 13.7 10.0 15.0

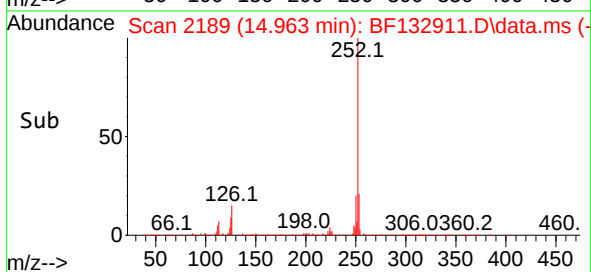
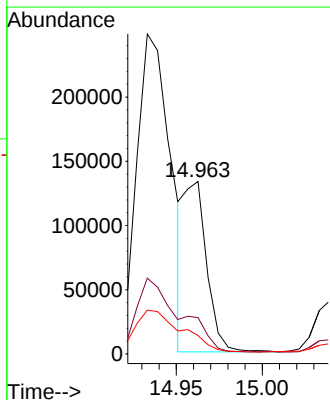
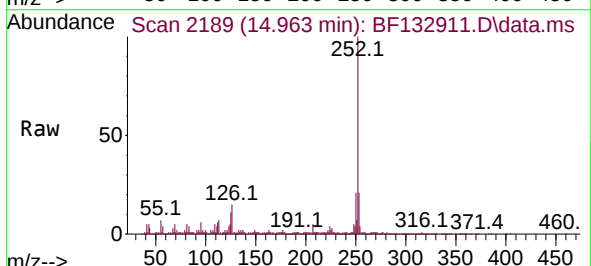
Manual Integrations  
APPROVED

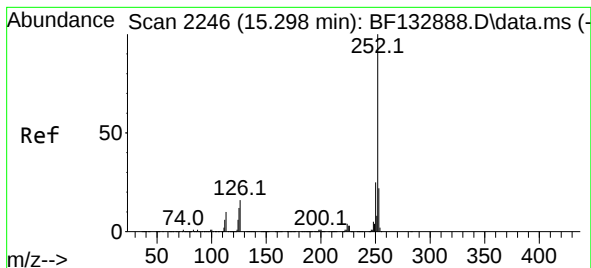
Reviewed By :Yogesh Patel 04/19/2023  
Supervised By :Jagrut Upadhyay 04/19/2023



#89  
Benzo(k)fluoranthene  
Concen: 3.483 ng m  
RT: 14.963 min Scan# 2189  
Delta R.T. -0.012 min  
Lab File: BF132911.D  
Acq: 18 Apr 2023 20:31

Tgt Ion:252 Resp: 120046  
Ion Ratio Lower Upper  
252 100  
253 21.1 18.0 27.0  
125 10.7 10.0 15.0





#90

Benzo(a)pyrene

Concen: 7.050 ng

RT: 15.280 min Scan# 21

Delta R.T. -0.017 min

Lab File: BF132911.D

Acq: 18 Apr 2023 20:31

Instrument :

BNA\_F

ClientSampleId :

SB-23-COMP

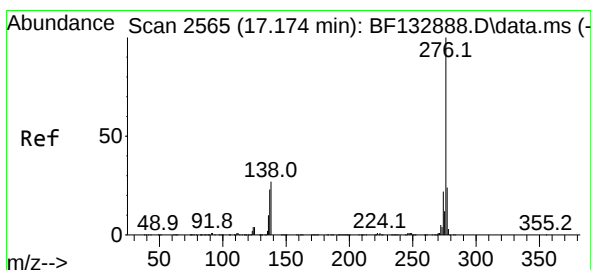
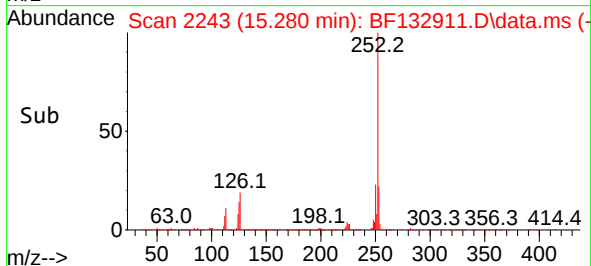
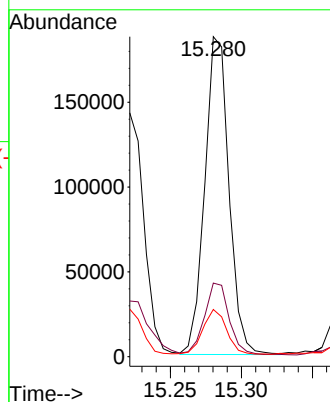
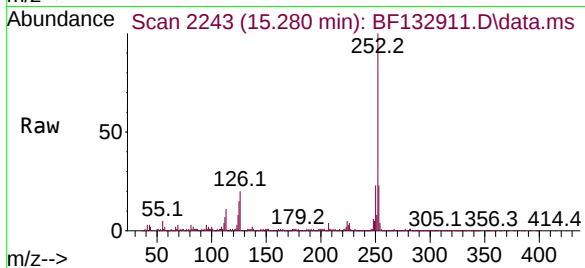
Tgt Ion:252 Resp: 22285  
 Ion Ratio Lower Upper  
 252 100  
 253 23.0 17.7 26.5  
 125 14.8 9.9 14.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 04/19/2023

Supervised By :Jagrut Upadhyay 04/19/2023



#92

Benzo(g,h,i)perylene

Concen: 3.957 ng

RT: 17.145 min Scan# 2560

Delta R.T. -0.029 min

Lab File: BF132911.D

Acq: 18 Apr 2023 20:31

Tgt Ion:276 Resp: 102461  
 Ion Ratio Lower Upper  
 276 100  
 277 22.9 18.9 28.3  
 138 28.4 21.7 32.5

