

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF030323\  
 Data File : BF132629.D  
 Acq On : 03 Mar 2023 15:23  
 Operator : CG\JU  
 Sample : 01767-03  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CE-45-030123

Manual Integrations  
 APPROVED

Reviewed By : Christian Giraldo 03/06/2023  
 Supervised By : Jagrut Upadhyay 03/06/2023

Quant Time: Mar 04 02:17:18 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF022223.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Feb 24 23:17:30 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.998  | 152  | 172466   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.286  | 136  | 581532   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 10.045 | 164  | 250891   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.539 | 188  | 400787   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 14.210 | 240  | 343516   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 15.762 | 264  | 434182   | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.628  | 112  | 949780   | 89.378 | ng    | 0.00     |
| 7) Phenol-d6                | 6.622  | 99   | 1147286  | 82.725 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.563  | 82   | 724880   | 59.139 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.839 | 330  | 207220   | 76.479 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.357  | 172  | 1048994  | 63.664 | ng    | -0.01    |
| 79) Terphenyl-d14           | 13.133 | 244  | 875374   | 43.085 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 52) Acenaphthene            | 10.075 | 154  | 35688    | 2.346  | ng    | 97       |
| 71) Phenanthrene            | 11.569 | 178  | 721503   | 34.750 | ng    | 98       |
| 72) Anthracene              | 11.616 | 178  | 226400   | 10.589 | ng    | 99       |
| 75) Fluoranthene            | 12.768 | 202  | 1634912  | 72.029 | ng    | 99       |
| 78) Pyrene                  | 13.004 | 202  | 1642741  | 52.599 | ng    | 99       |
| 81) Benzo(a)anthracene      | 14.198 | 228  | 1009107  | 39.261 | ng    | 97       |
| 83) Chrysene                | 14.233 | 228  | 887814   | 36.938 | ng    | 98       |
| 87) Indeno(1,2,3-cd)pyrene  | 17.362 | 276  | 568208   | 19.972 | ng    | 96       |
| 88) Benzo(b)fluoranthene    | 15.304 | 252  | 1288347m | 44.278 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.327 | 252  | 487529m  | 17.120 | ng    |          |
| 90) Benzo(a)pyrene          | 15.698 | 252  | 1012635  | 37.185 | ng    | 97       |
| 91) Dibenzo(a,h)anthracene  | 17.368 | 278  | 144069m  | 6.215  | ng    |          |
| 92) Benzo(g,h,i)perylene    | 17.850 | 276  | 507451   | 20.334 | ng    | 99       |
| -----                       |        |      |          |        |       |          |

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

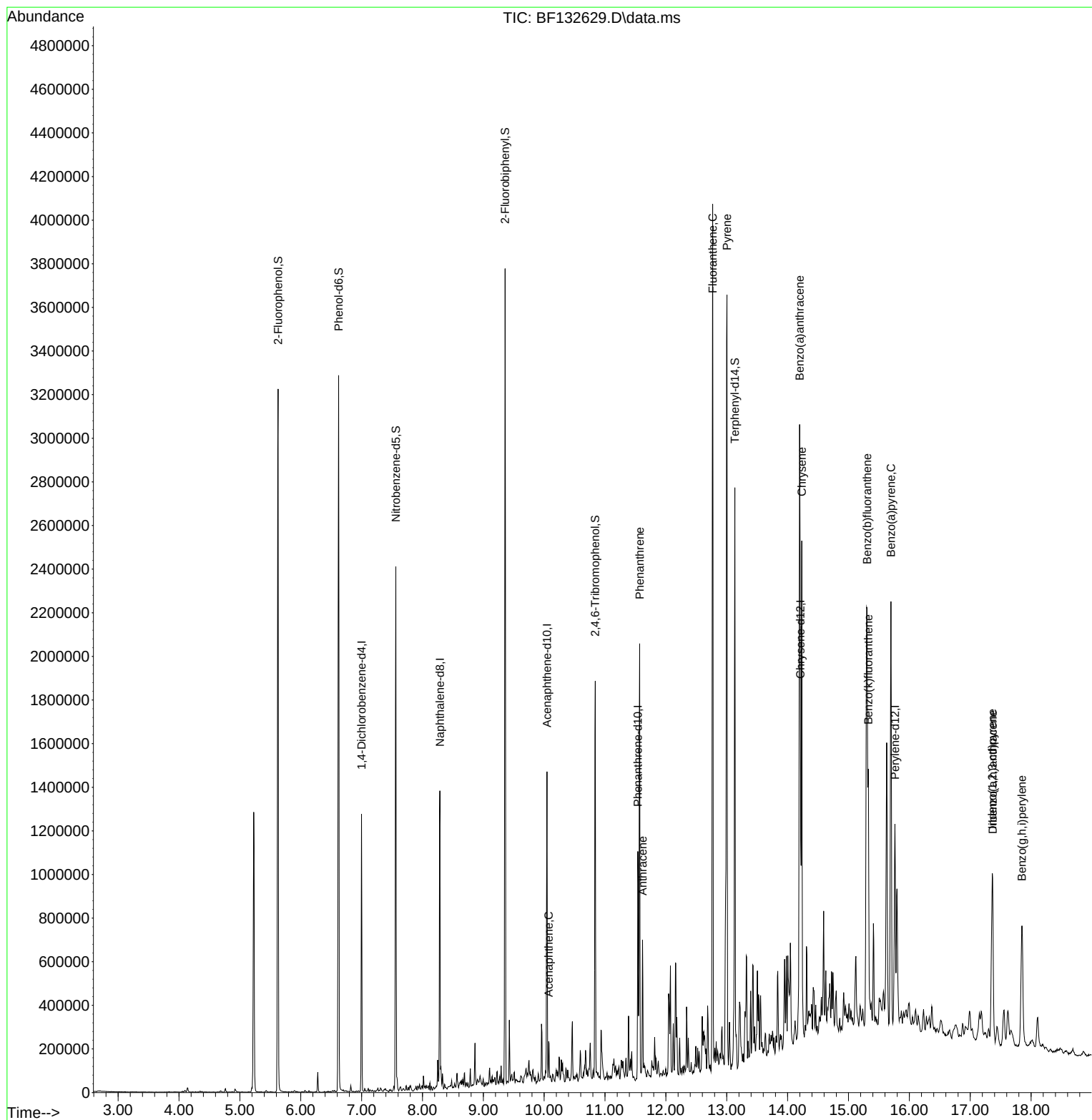
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF030323\  
Data File : BF132629.D  
Acq On : 03 Mar 2023 15:23  
Operator : CG\JU  
Sample : 01767-03  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

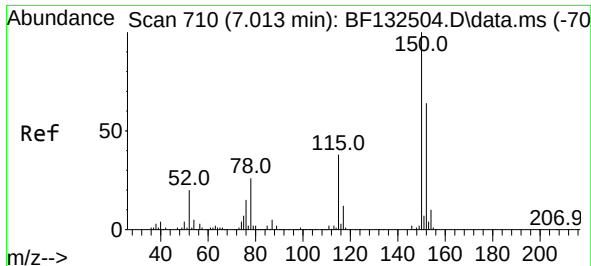
Instrument :  
BNA\_F  
ClientSampleId :  
CE-45-030123

Quant Time: Mar 04 02:17:18 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF022223.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Feb 24 23:17:30 2023  
Response via : Initial Calibration

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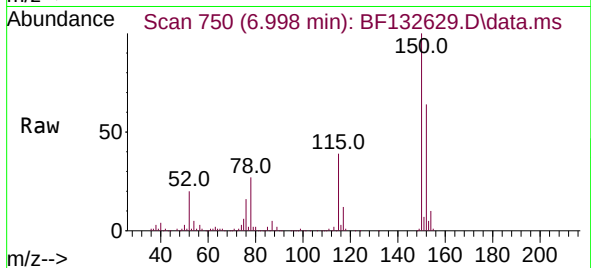
Reviewed By : Christian Giraldo 03/06/2023  
Supervised By : Jagrut Upadhyay 03/06/2023





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.998 min Scan# 710  
Delta R.T. -0.009 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23

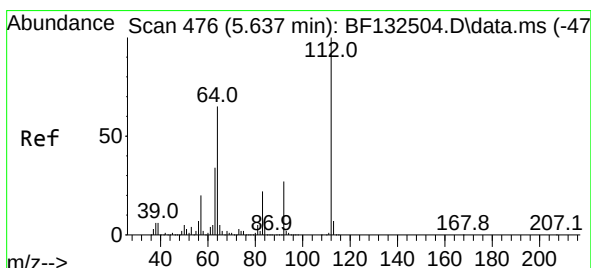
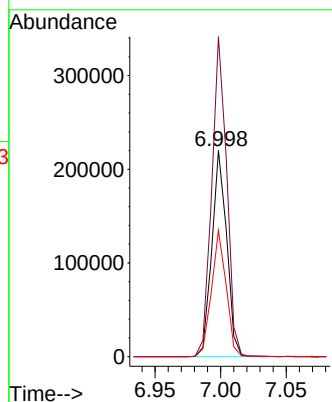
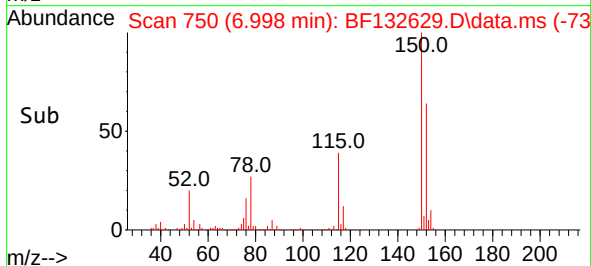
Instrument :  
BNA\_F  
ClientSampleId :  
CE-45-030123



Tgt Ion:152 Resp: 172466  
Ion Ratio Lower Upper  
152 100  
150 155.4 125.4 188.2  
115 61.3 47.8 71.6

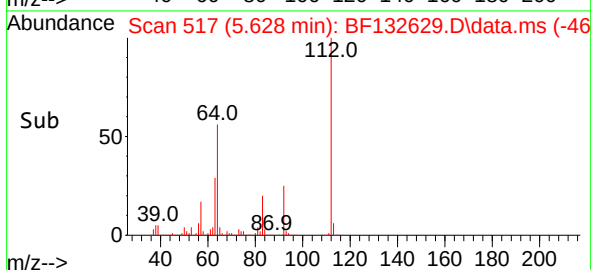
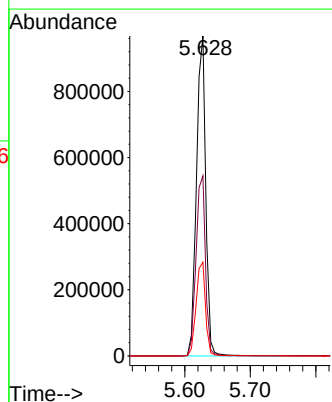
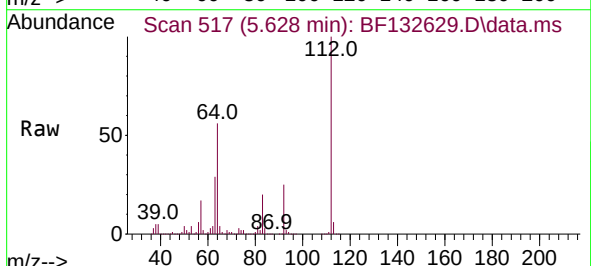
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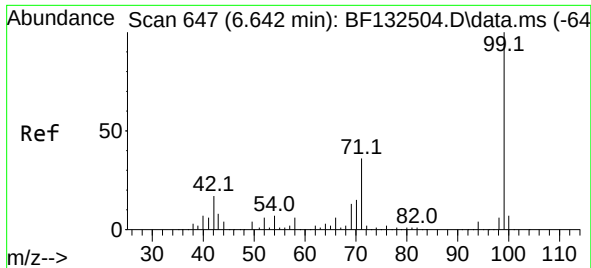
Reviewed By :Christian Giraldo 03/06/2023  
Supervised By :Jagrut Upadhyay 03/06/2023



#5  
2-Fluorophenol  
Concen: 89.378 ng  
RT: 5.628 min Scan# 517  
Delta R.T. -0.003 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23

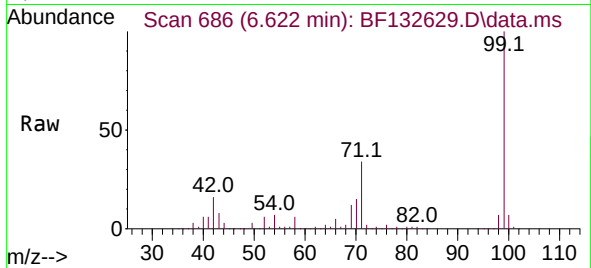
Tgt Ion:112 Resp: 949780  
Ion Ratio Lower Upper  
112 100  
64 56.3 51.6 77.4  
63 29.3 27.4 41.2





#7  
Phenol-d6  
Concen: 82.725 ng  
RT: 6.622 min Scan# 686  
Delta R.T. -0.015 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23

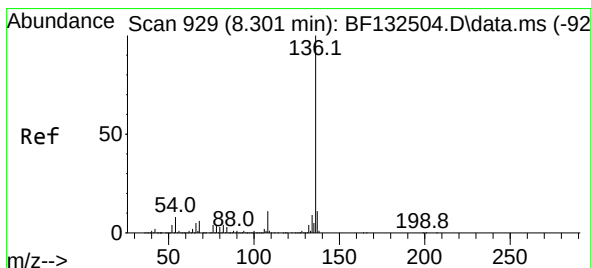
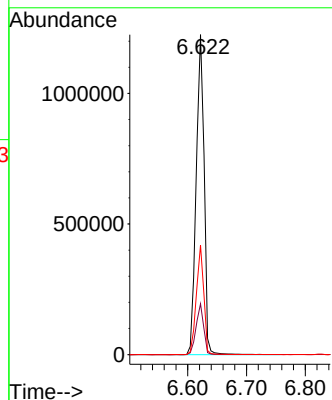
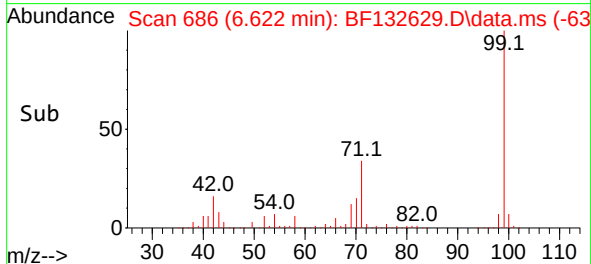
Instrument :  
BNA\_F  
ClientSampleId :  
CE-45-030123



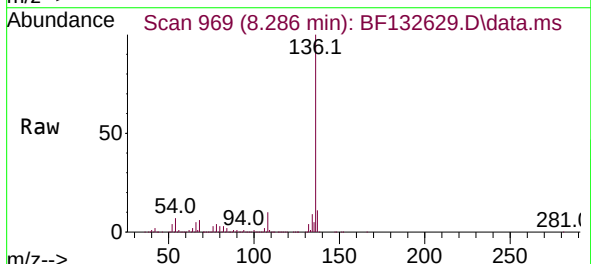
Tgt Ion: 99 Resp: 1147286  
Ion Ratio Lower Upper  
99 100  
42 15.9 13.9 20.9  
71 34.3 28.5 42.7

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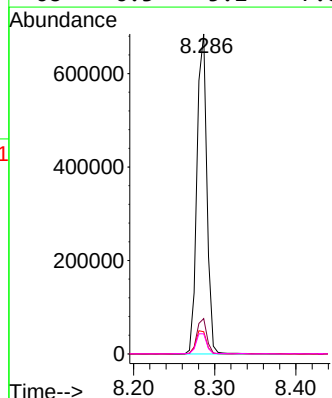
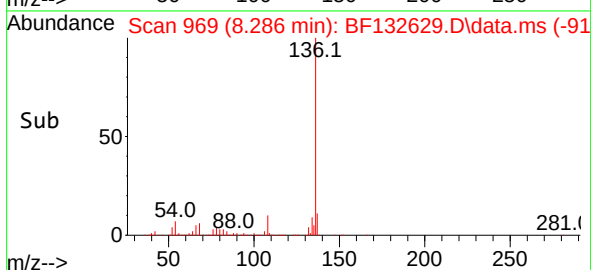
Reviewed By :Christian Giraldo 03/06/2023  
Supervised By :Jagrut Upadhyay 03/06/2023

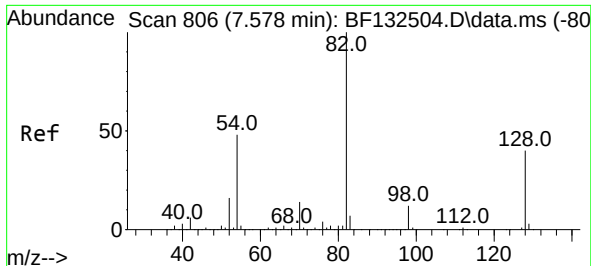


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.286 min Scan# 969  
Delta R.T. -0.003 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23



Tgt Ion:136 Resp: 581532  
Ion Ratio Lower Upper  
136 100  
137 11.0 8.9 13.3  
54 6.9 6.2 9.4  
68 6.3 5.2 7.8





#23

Nitrobenzene-d5

Concen: 59.139 ng

RT: 7.563 min Scan# 84

Delta R.T. -0.009 min

Lab File: BF132629.D

Acq: 03 Mar 2023 15:23

Instrument :

BNA\_F

ClientSampleId :

CE-45-030123

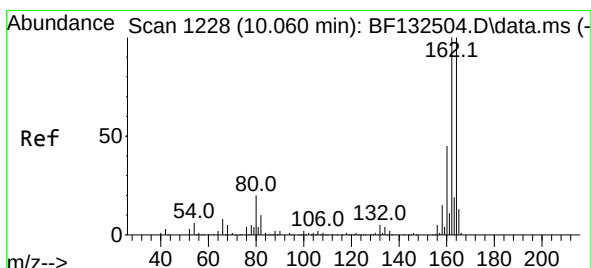
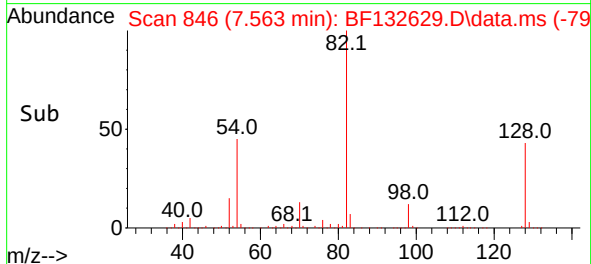
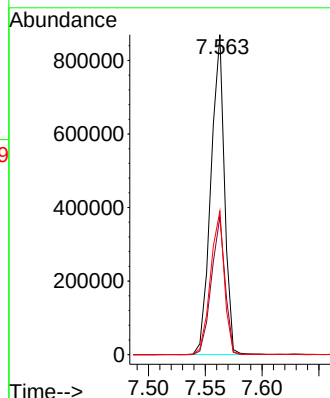
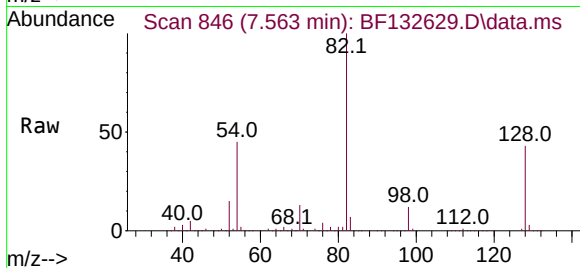
Tgt Ion: 82 Resp: 724886

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 43.1  | 32.2  | 48.2  |
| 54  | 44.9  | 38.4  | 57.6  |

Manual Integrations

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Supervised By :Jagrut Upadhyay 03/06/2023



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.045 min Scan# 1268

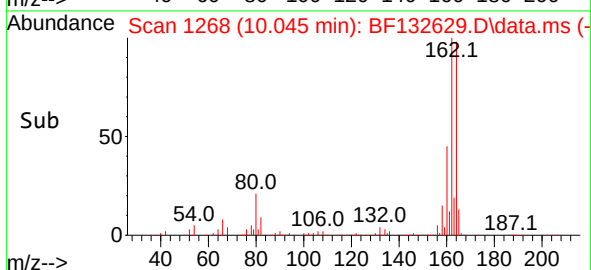
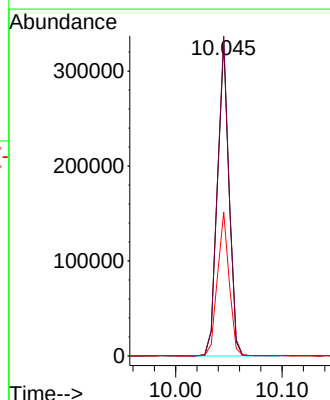
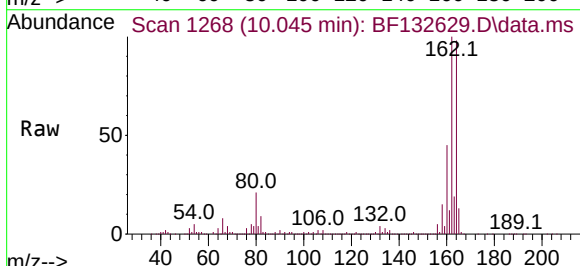
Delta R.T. -0.009 min

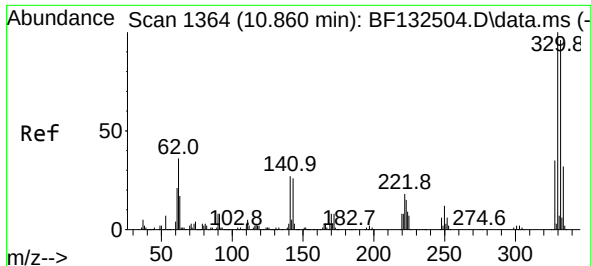
Lab File: BF132629.D

Acq: 03 Mar 2023 15:23

Tgt Ion:164 Resp: 250891

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 101.9 | 79.8  | 119.8 |
| 160 | 45.8  | 35.8  | 53.6  |





#42  
2,4,6-Tribromophenol  
Concen: 76.479 ng  
RT: 10.839 min Scan# 1403  
Delta R.T. -0.009 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23

Instrument :

BNA\_F

ClientSampleId :

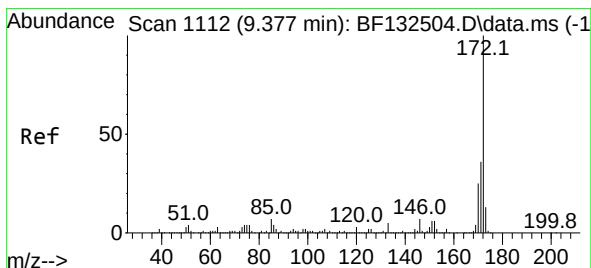
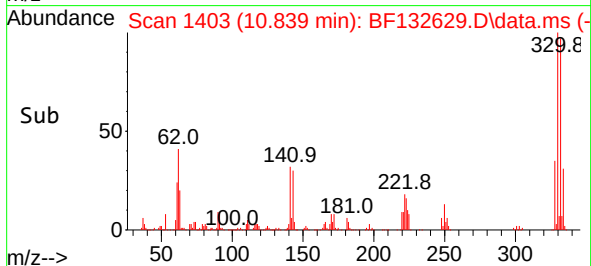
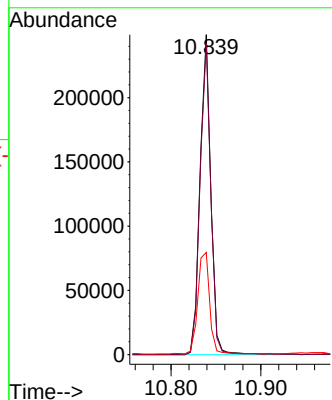
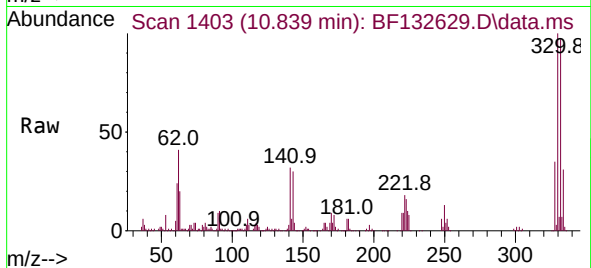
CE-45-030123

Tgt Ion:330 Resp: 207220  
Ion Ratio Lower Upper  
330 100  
332 96.9 76.2 114.4  
141 35.2 28.4 42.6

Manual Integrations

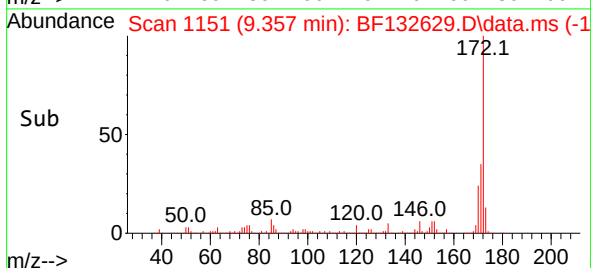
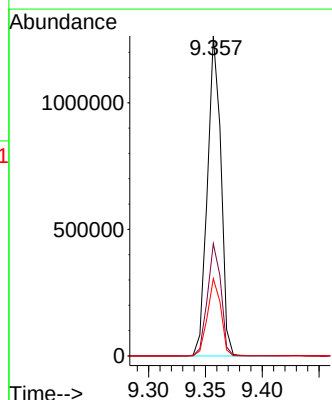
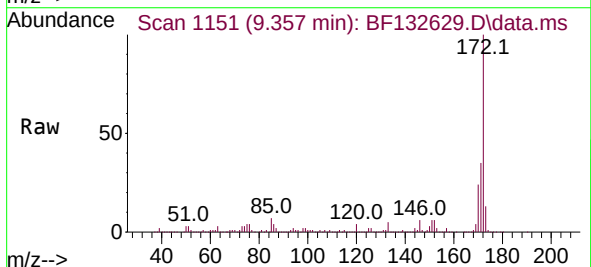
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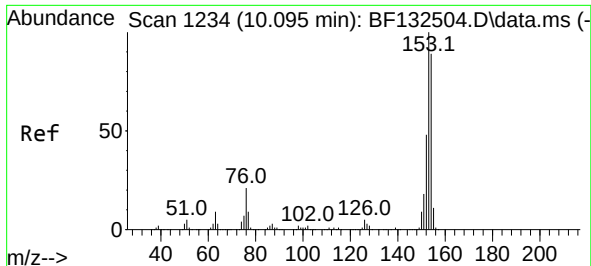
Reviewed By :Christian Giraldo 03/06/2023  
Supervised By :Jagrut Upadhyay 03/06/2023



#45  
2-Fluorobiphenyl  
Concen: 63.664 ng  
RT: 9.357 min Scan# 1151  
Delta R.T. -0.015 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23

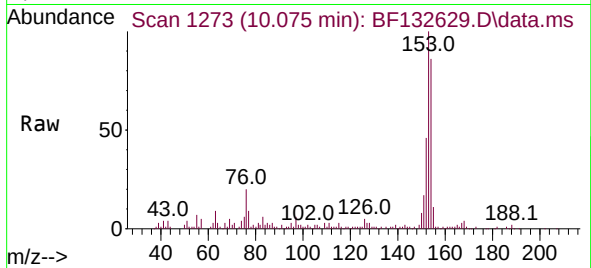
Tgt Ion:172 Resp: 1048994  
Ion Ratio Lower Upper  
172 100  
171 35.1 28.8 43.2  
170 24.1 19.7 29.5





#52  
Acenaphthene  
Concen: 2.346 ng  
RT: 10.075 min Scan# 11  
Delta R.T. -0.015 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23

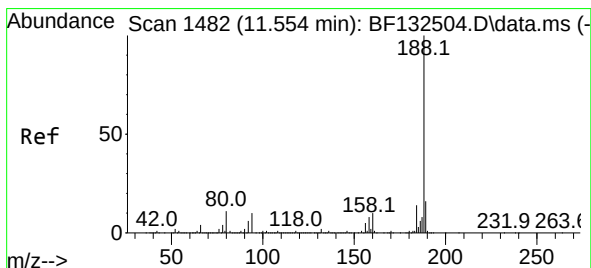
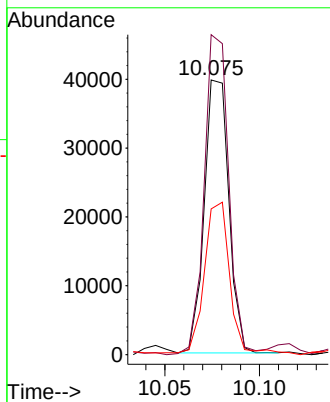
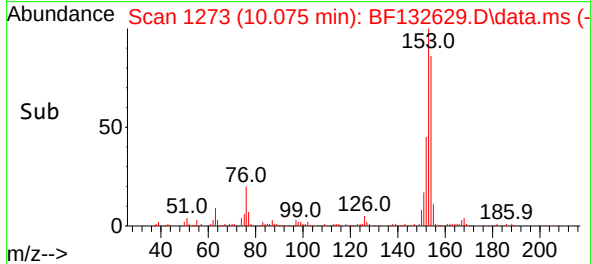
Instrument :  
BNA\_F  
ClientSampleId :  
CE-45-030123



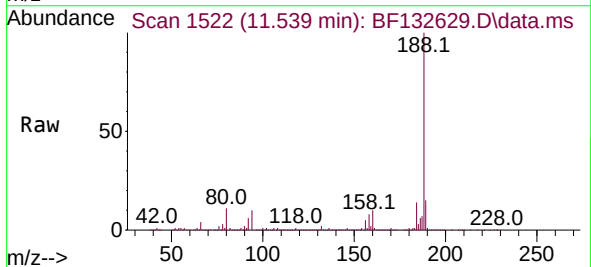
Tgt Ion:154 Resp: 35688  
Ion Ratio Lower Upper  
154 100  
153 116.5 89.8 134.8  
152 53.1 43.3 64.9

Manual Integrations  
APPROVED

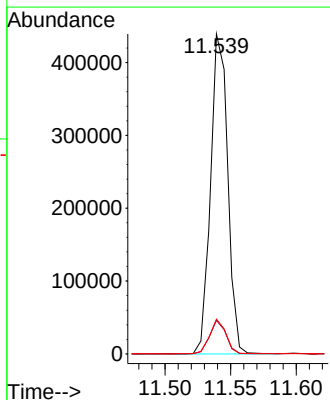
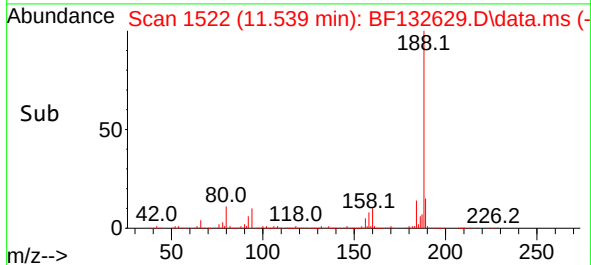
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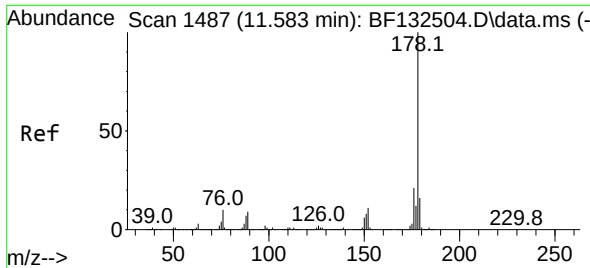


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.539 min Scan# 1522  
Delta R.T. -0.009 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23



Tgt Ion:188 Resp: 400787  
Ion Ratio Lower Upper  
188 100  
94 10.5 8.3 12.5  
80 10.9 8.7 13.1





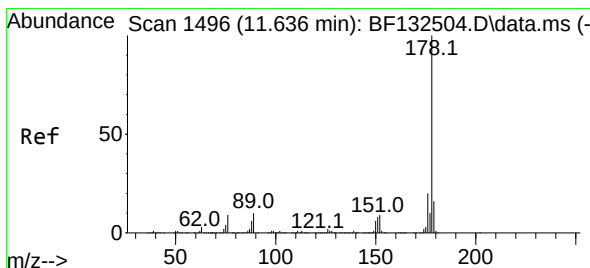
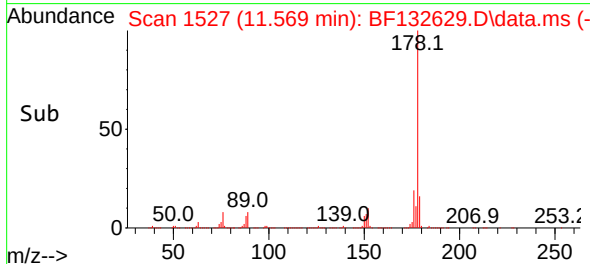
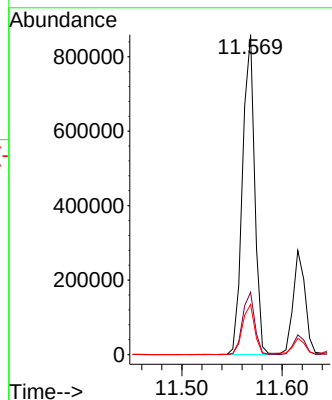
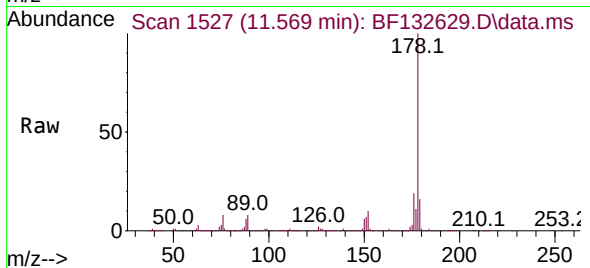
#71  
Phenanthrene  
Concen: 34.750 ng  
RT: 11.569 min Scan# 1153  
Delta R.T. -0.009 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23

Instrument :  
BNA\_F  
ClientSampleId :  
CE-45-030123

Tgt Ion:178 Resp: 721503  
Ion Ratio Lower Upper  
178 100  
176 19.5 16.5 24.7  
179 15.7 13.0 19.6

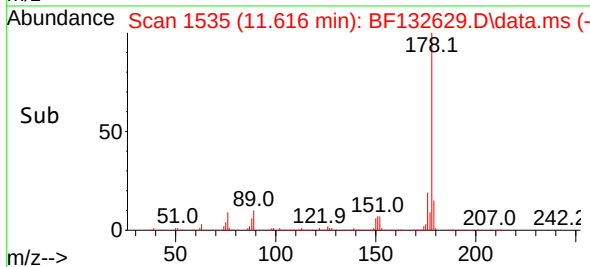
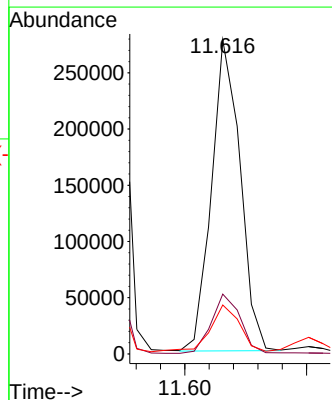
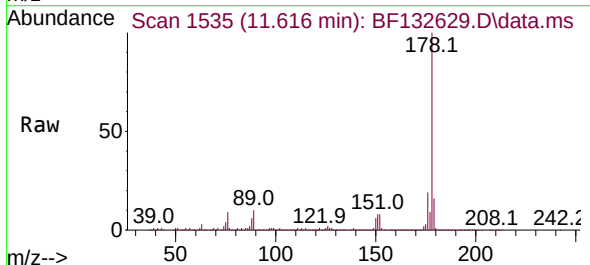
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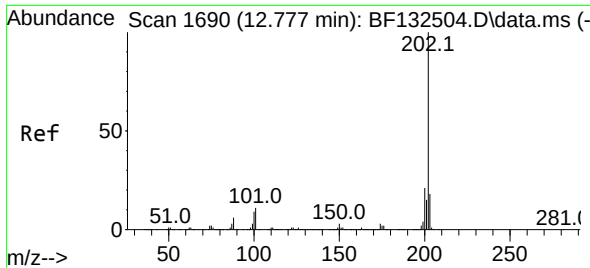


#72  
Anthracene  
Concen: 10.589 ng  
RT: 11.616 min Scan# 1535  
Delta R.T. -0.015 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23

Tgt Ion:178 Resp: 226400  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.6 23.4  
179 15.6 12.5 18.7

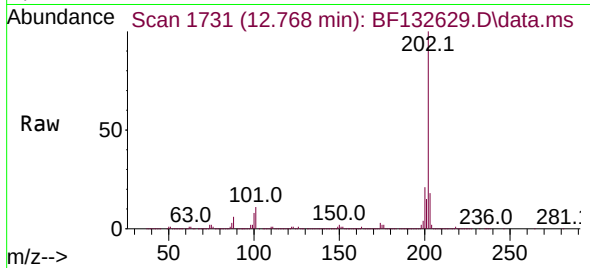






#75  
Fluoranthene  
Concen: 72.029 ng  
RT: 12.768 min Scan# 1731  
Delta R.T. -0.003 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23

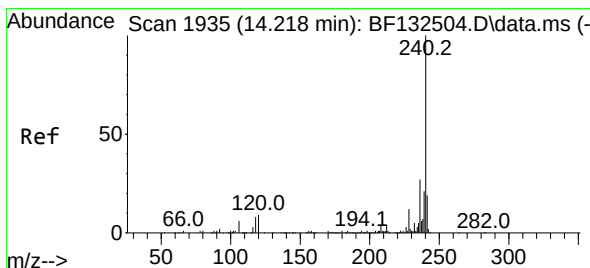
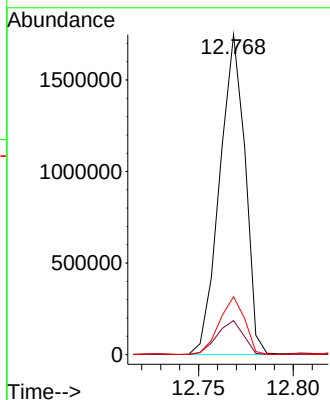
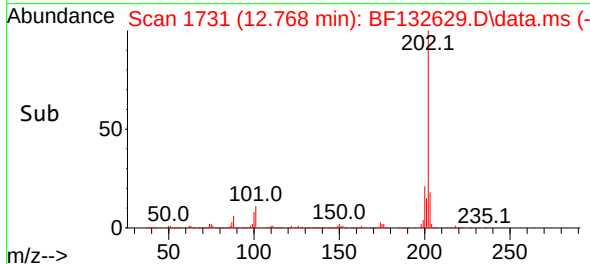
Instrument :  
BNA\_F  
ClientSampleId :  
CE-45-030123



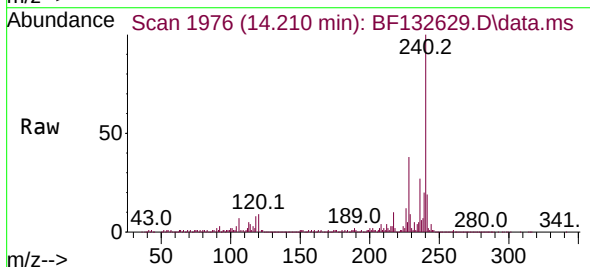
Tgt Ion:202 Resp: 1634912  
Ion Ratio Lower Upper  
202 100  
101 10.6 0.0 31.4  
203 18.1 0.0 38.0

Manual Integrations  
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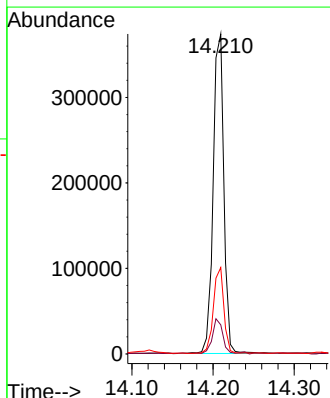
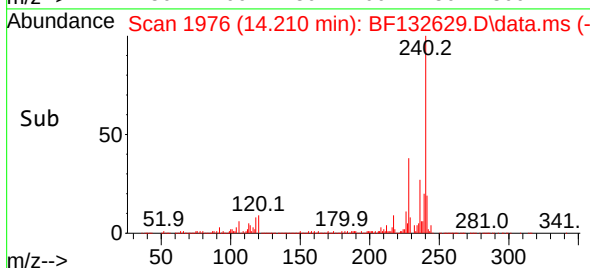
Reviewed By :Christian Giraldo 03/06/2023  
Supervised By :Jagrut Upadhyay 03/06/2023

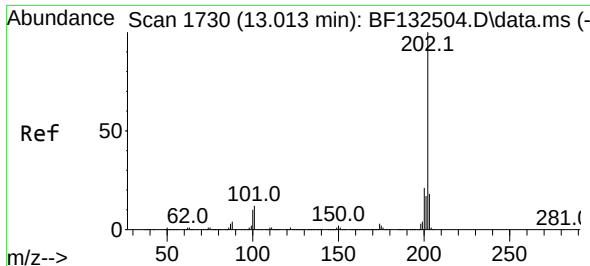


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.210 min Scan# 1976  
Delta R.T. 0.003 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23



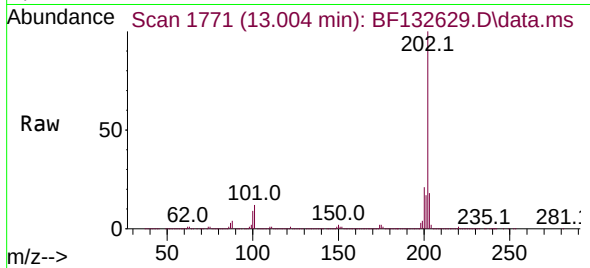
Tgt Ion:240 Resp: 343516  
Ion Ratio Lower Upper  
240 100  
120 9.1 7.2 10.8  
236 27.0 21.8 32.6





#78  
Pyrene  
Concen: 52.599 ng  
RT: 13.004 min Scan# 1771  
Delta R.T. 0.003 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23

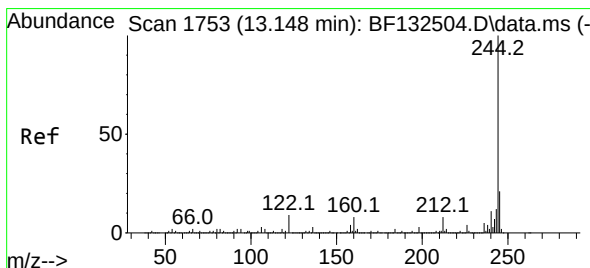
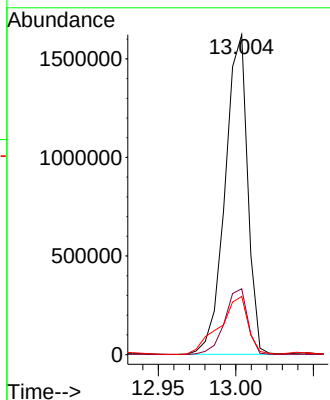
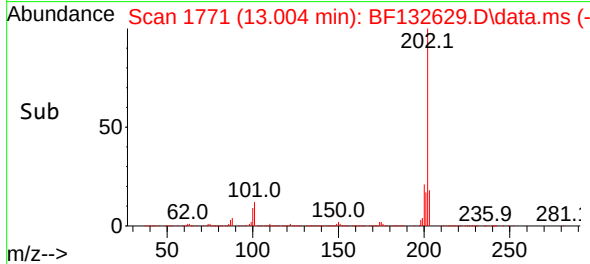
Instrument :  
BNA\_F  
ClientSampleId :  
CE-45-030123



Tgt Ion:202 Resp: 164274  
Ion Ratio Lower Upper  
202 100  
200 20.6 17.1 25.7  
203 18.2 14.6 21.8

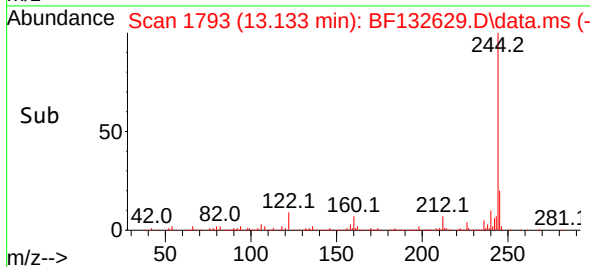
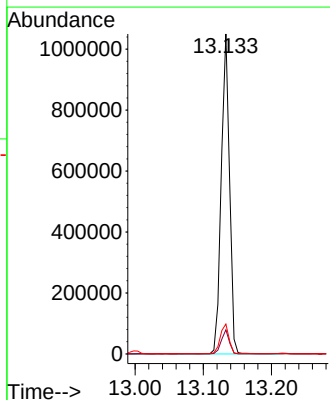
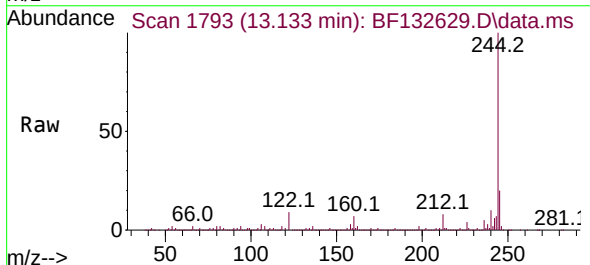
Manual Integrations  
APPROVED

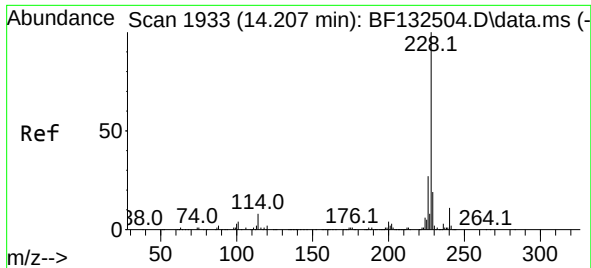
Reviewed By :Christian Giraldo 03/06/2023  
Supervised By :Jagrut Upadhyay 03/06/2023



#79  
Terphenyl-d14  
Concen: 43.085 ng  
RT: 13.133 min Scan# 1793  
Delta R.T. -0.009 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23

Tgt Ion:244 Resp: 875374  
Ion Ratio Lower Upper  
244 100  
212 7.5 6.5 9.7  
122 9.3 7.5 11.3





#81  
Benzo(a)anthracene  
Concen: 39.261 ng  
RT: 14.198 min Scan# 1933  
Delta R.T. 0.003 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23

Instrument :

BNA\_F

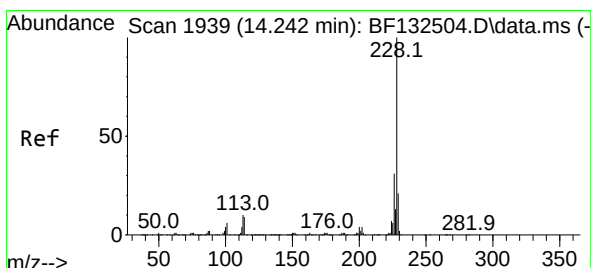
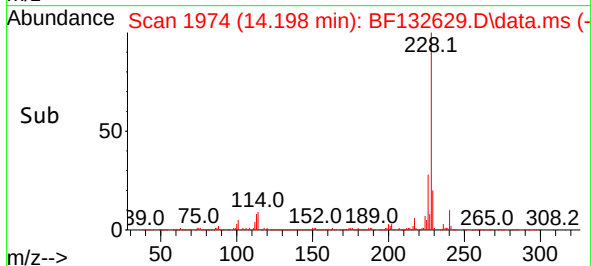
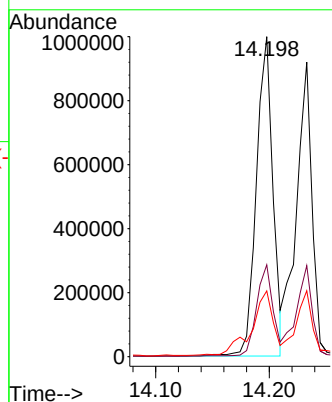
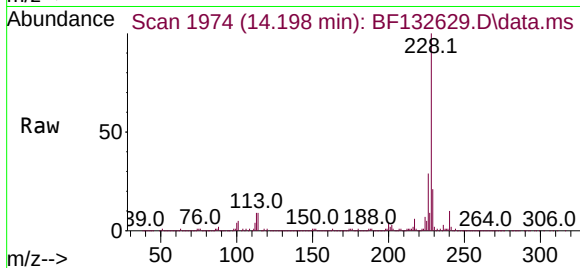
ClientSampleId :

CE-45-030123

Tgt Ion:228 Resp: 100910  
Ion Ratio Lower Upper  
228 100  
226 28.7 21.7 32.5  
229 20.5 15.4 23.2

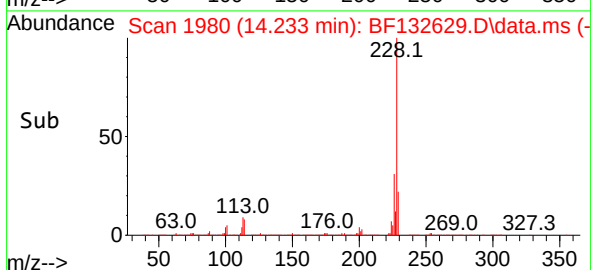
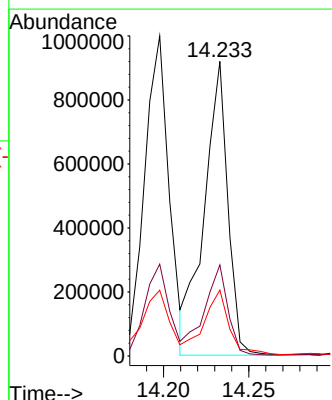
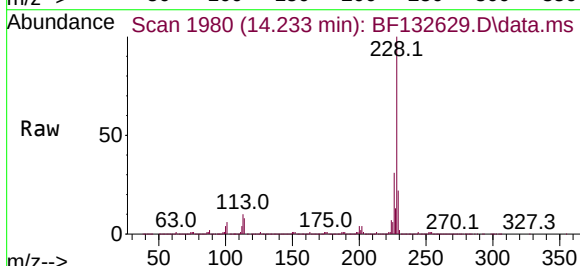
Manual Integrations  
APPROVED

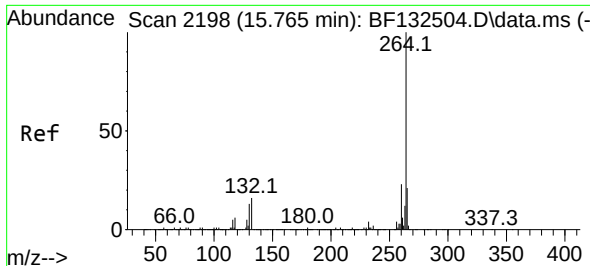
Reviewed By :Christian Giraldo 03/06/2023  
Supervised By :Jagrut Upadhyay 03/06/2023



#83  
Chrysene  
Concen: 36.938 ng  
RT: 14.233 min Scan# 1980  
Delta R.T. -0.003 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23

Tgt Ion:228 Resp: 887814  
Ion Ratio Lower Upper  
228 100  
226 30.9 25.0 37.6  
229 22.4 16.4 24.6





#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.762 min Scan# 2198  
Delta R.T. 0.009 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23

Instrument :

BNA\_F

ClientSampleId :

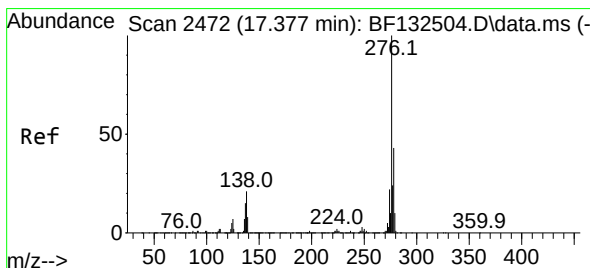
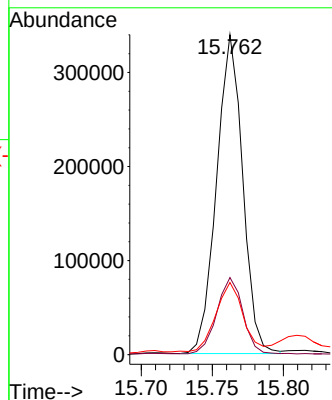
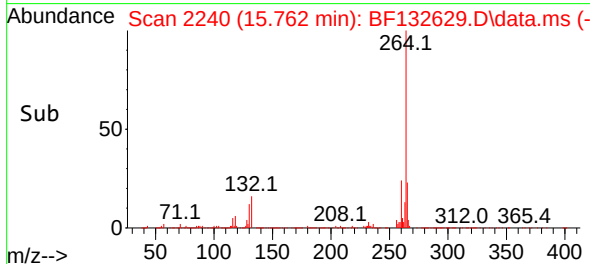
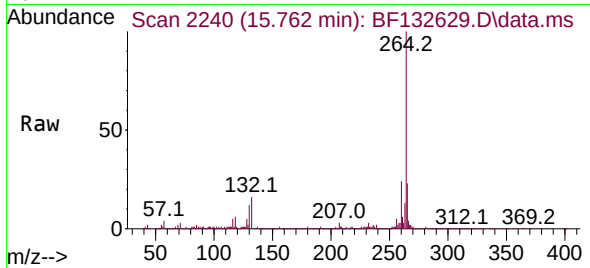
CE-45-030123

Tgt Ion:264 Resp: 434182  
Ion Ratio Lower Upper  
264 100  
260 24.1 18.8 28.2  
265 22.5 17.1 25.7

Manual Integrations

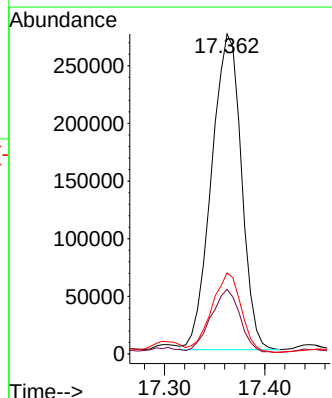
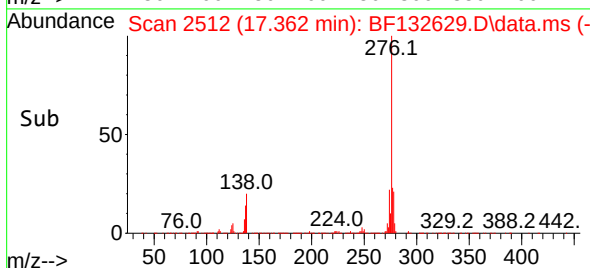
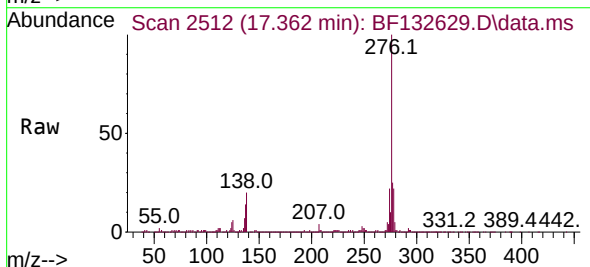
APPROVED

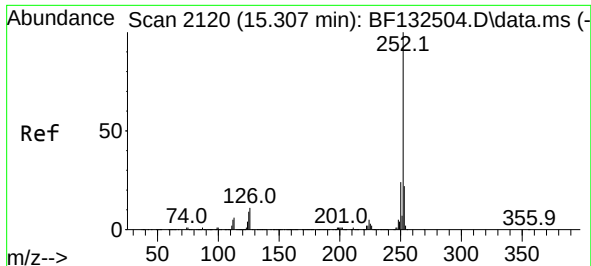
Reviewed By :Christian Giraldo 03/06/2023  
Supervised By :Jagrut Upadhyay 03/06/2023



#87  
Indeno(1,2,3-cd)pyrene  
Concen: 19.972 ng  
RT: 17.362 min Scan# 2512  
Delta R.T. 0.003 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23

Tgt Ion:276 Resp: 568208  
Ion Ratio Lower Upper  
276 100  
138 19.4 19.0 28.4  
277 25.0 20.0 30.0





#88  
Benzo(b)fluoranthene  
Concen: 44.278 ng m  
RT: 15.304 min Scan# 2116  
Delta R.T. 0.009 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23

Instrument :

BNA\_F

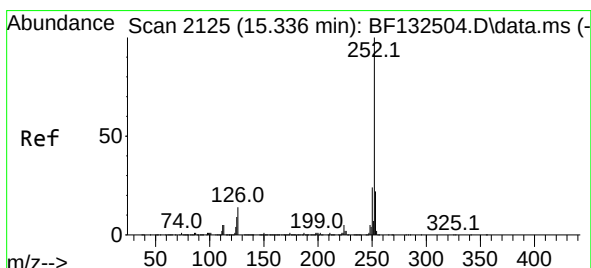
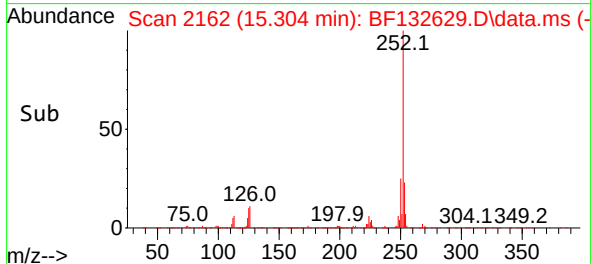
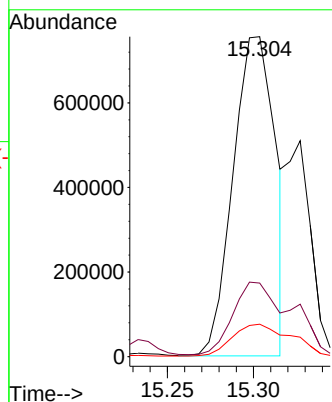
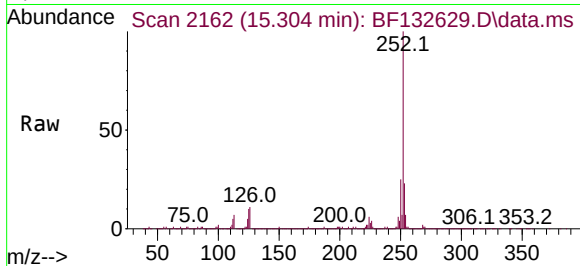
ClientSampleId :

CE-45-030123

Tgt Ion:252 Resp: 128834  
Ion Ratio Lower Upper  
252 100  
253 23.0 17.4 26.0  
125 10.1 7.0 10.6

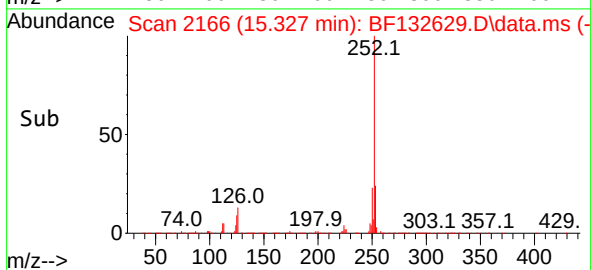
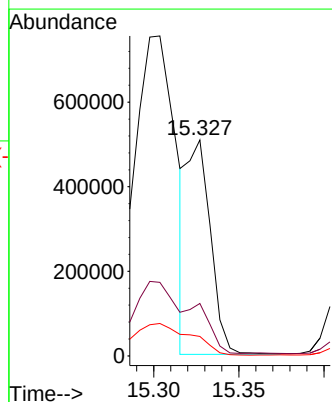
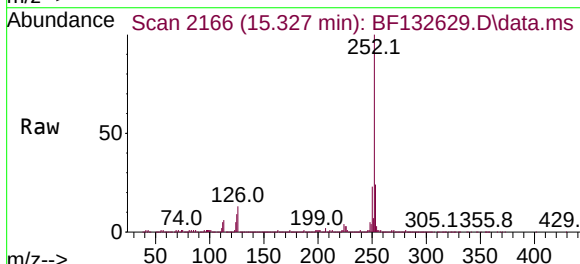
Manual Integrations  
APPROVED

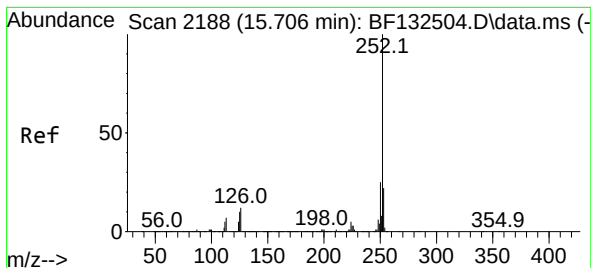
Reviewed By :Christian Giraldo 03/06/2023  
Supervised By :Jagrut Upadhyay 03/06/2023



#89  
Benzo(k)fluoranthene  
Concen: 17.120 ng m  
RT: 15.327 min Scan# 2166  
Delta R.T. 0.003 min  
Lab File: BF132629.D  
Acq: 03 Mar 2023 15:23

Tgt Ion:252 Resp: 487529  
Ion Ratio Lower Upper  
252 100  
253 24.2 17.5 26.3  
125 9.0 7.2 10.8





#90

Benzo(a)pyrene

Concen: 37.185 ng

RT: 15.698 min Scan# 21

Delta R.T. 0.009 min

Lab File: BF132629.D

Acq: 03 Mar 2023 15:23

Instrument :

BNA\_F

ClientSampleId :

CE-45-030123

Tgt Ion:252 Resp: 1012635

Ion Ratio Lower Upper

252 100

253 23.5 17.2 25.8

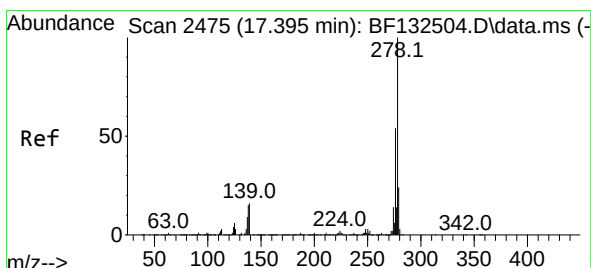
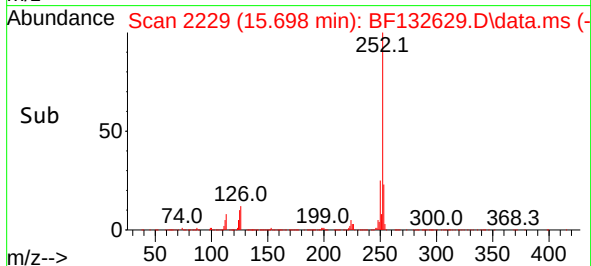
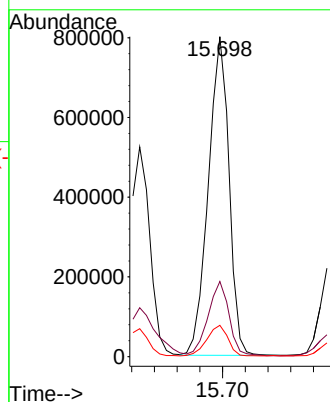
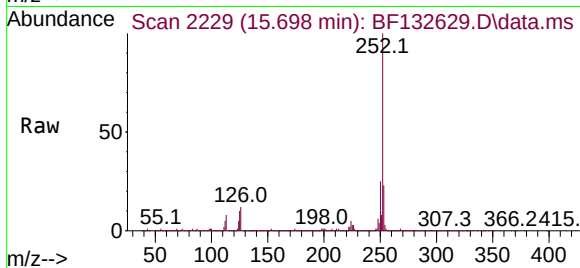
125 9.8 8.0 12.0

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 03/06/2023

Supervised By :Jagrut Upadhyay 03/06/2023



#91

Dibenzo(a,h)anthracene

Concen: 6.215 ng m

RT: 17.368 min Scan# 2513

Delta R.T. -0.009 min

Lab File: BF132629.D

Acq: 03 Mar 2023 15:23

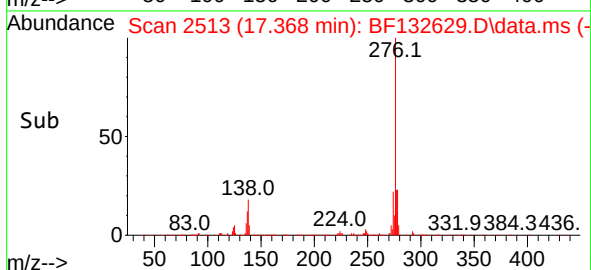
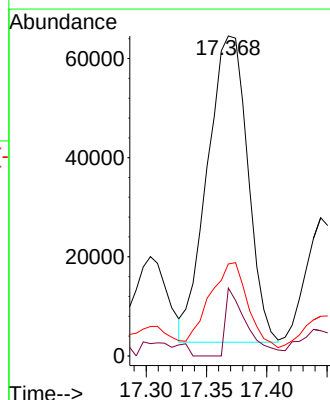
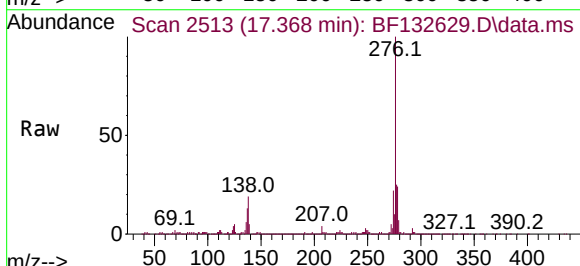
Tgt Ion:278 Resp: 144069

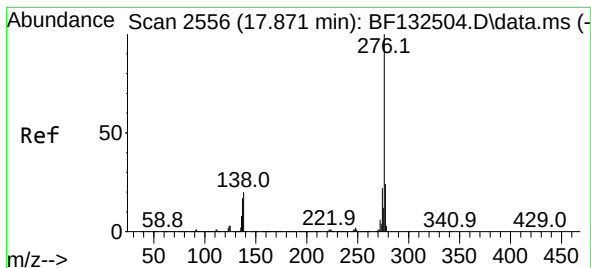
Ion Ratio Lower Upper

278 100

139 21.2 13.0 19.4#

279 28.7 19.0 28.4#





#92

Benzo(g,h,i)perylene

Concen: 20.334 ng

RT: 17.850 min Scan# 2595

Delta R.T. -0.003 min

Lab File: BF132629.D

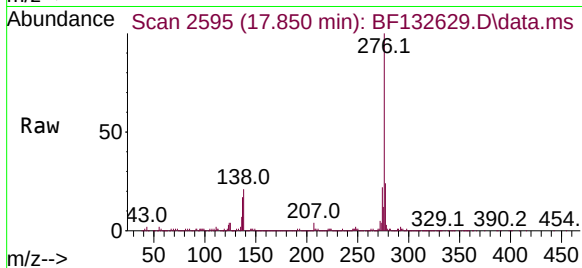
Acq: 03 Mar 2023 15:23

Instrument :

BNA\_F

ClientSampleId :

CE-45-030123



Tgt Ion:276 Resp: 50745

Ion Ratio Lower Upper

276 100

277 23.9 18.9 28.3

138 20.8 16.2 24.4

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 03/06/2023

Supervised By :Jagrut Upadhyay 03/06/2023

