

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF100523\  
 Data File : BF135615.D  
 Acq On : 05 Oct 2023 23:25  
 Operator : CG\JU  
 Sample : 04637-01DL 10X  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-1DL

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 10/06/2023  
 Supervised By :mohammad ahmed 10/07/2023

Quant Time: Oct 06 03:49:25 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF091123.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 04 17:06:20 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc    | Units | Dev(Min) |
|-------------------------------|--------|------|----------|---------|-------|----------|
| -----                         |        |      |          |         |       |          |
| Internal Standards            |        |      |          |         |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.739  | 152  | 124339   | 20.000  | ng    | 0.00     |
| 21) Naphthalene-d8            | 8.016  | 136  | 412411   | 20.000  | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.775  | 164  | 171100   | 20.000  | ng    | 0.00     |
| 64) Phenanthrene-d10          | 11.263 | 188  | 255682   | 20.000  | ng    | # 0.00   |
| 76) Chrysene-d12              | 13.927 | 240  | 217077   | 20.000  | ng    | 0.00     |
| 86) Perylene-d12              | 15.392 | 264  | 233632   | 20.000  | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| System Monitoring Compounds   |        |      |          |         |       |          |
| 5) 2-Fluorophenol             | 5.381  | 112  | 69264    | 9.060   | ng    | 0.01     |
| 7) Phenol-d6                  | 6.398  | 99   | 87552    | 9.007   | ng    | 0.01     |
| 23) Nitrobenzene-d5           | 7.304  | 82   | 51926    | 6.841   | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol      | 10.569 | 330  | 11597    | 6.820   | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.092  | 172  | 89937    | 7.930   | ng    | 0.00     |
| 79) Terphenyl-d14             | 12.857 | 244  | 69847    | 4.988   | ng    | 0.00     |
|                               |        |      |          |         |       |          |
| Target Compounds              |        |      |          |         |       | Qvalue   |
| 49) Acenaphthylene            | 9.633  | 152  | 35319    | 2.228   | ng    | 98       |
| 71) Phenanthrene              | 11.292 | 178  | 586649   | 48.513  | ng    | 99       |
| 72) Anthracene                | 11.345 | 178  | 72392    | 5.824   | ng    | 99       |
| 73) Carbazole                 | 11.510 | 167  | 82640    | 7.303   | ng    | 100      |
| 75) Fluoranthene              | 12.492 | 202  | 1607592  | 127.582 | ng    | 98       |
| 78) Pyrene                    | 12.721 | 202  | 1393570  | 67.428  | ng    | 100      |
| 81) Benzo(a)anthracene        | 13.921 | 228  | 771034   | 55.006  | ng    | 96       |
| 83) Chrysene                  | 13.957 | 228  | 944934   | 67.803  | ng    | 99       |
| 84) Bis(2-ethylhexyl)phtha... | 13.904 | 149  | 34376    | 4.604   | ng    | 99       |
| 87) Indeno(1,2,3-cd)pyrene    | 16.880 | 276  | 467080   | 30.491  | ng    | 98       |
| 88) Benzo(b)fluoranthene      | 14.974 | 252  | 1267908m | 100.251 | ng    |          |
| 89) Benzo(k)fluoranthene      | 14.998 | 252  | 371130m  | 29.706  | ng    |          |
| 90) Benzo(a)pyrene            | 15.339 | 252  | 717674   | 59.504  | ng    | 100      |
| 91) Dibenzo(a,h)anthracene    | 16.880 | 278  | 101559m  | 8.103   | ng    |          |
| 92) Benzo(g,h,i)perylene      | 17.327 | 276  | 452878   | 34.597  | ng    | 96       |
| -----                         |        |      |          |         |       |          |

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

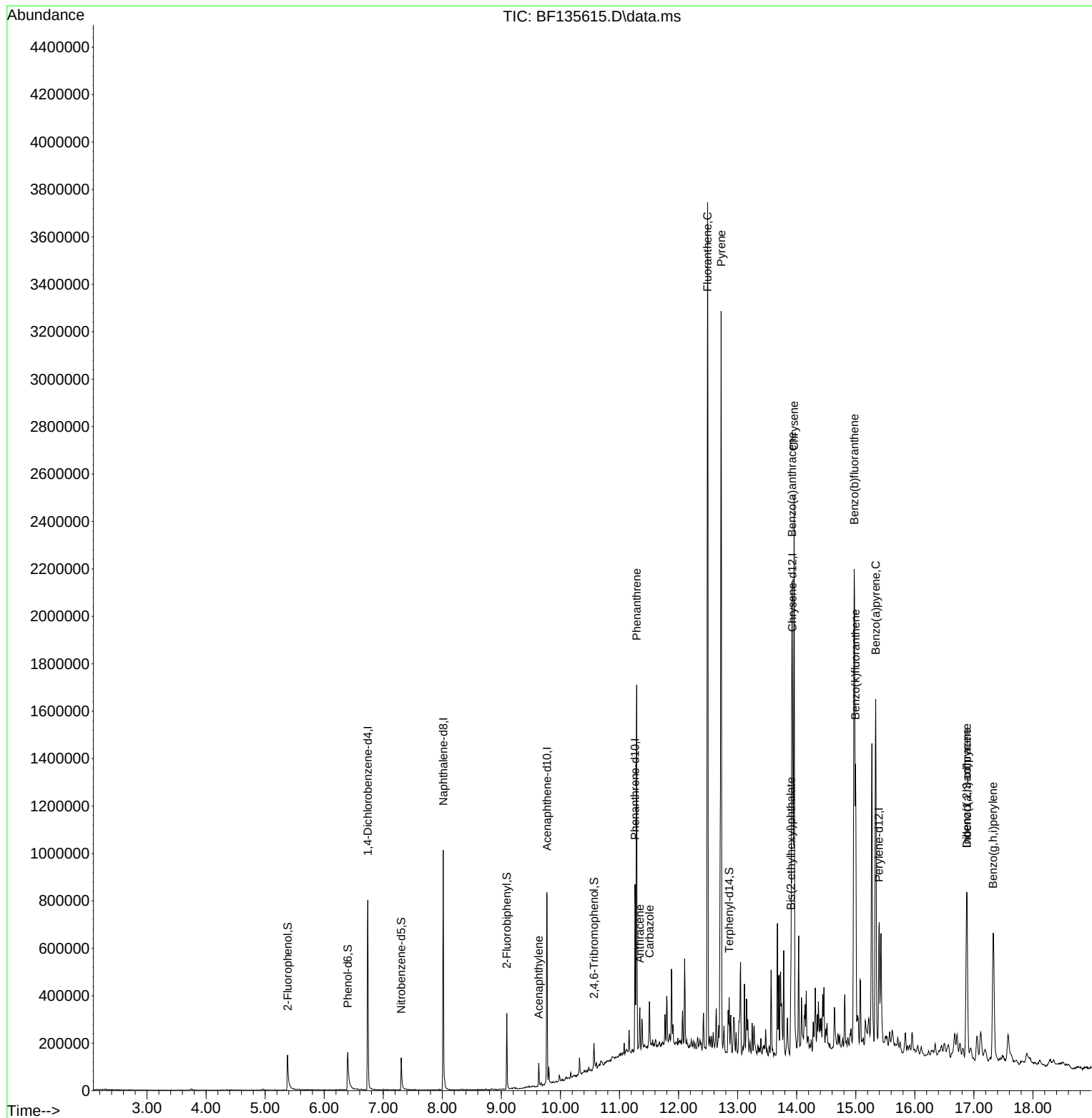
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF100523\  
Data File : BF135615.D  
Acq On : 05 Oct 2023 23:25  
Operator : CG\JU  
Sample : 04637-01DL 10X  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

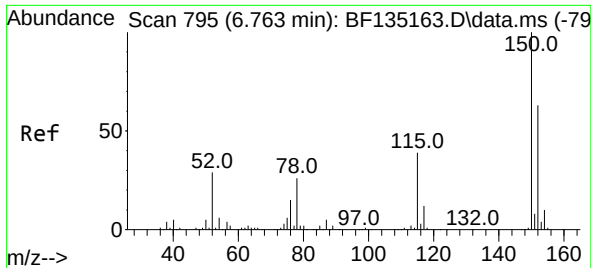
Instrument :  
BNA\_F  
ClientSampleId :  
WC-1DL

Quant Time: Oct 06 03:49:25 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF091123.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Oct 04 17:06:20 2023  
Response via : Initial Calibration

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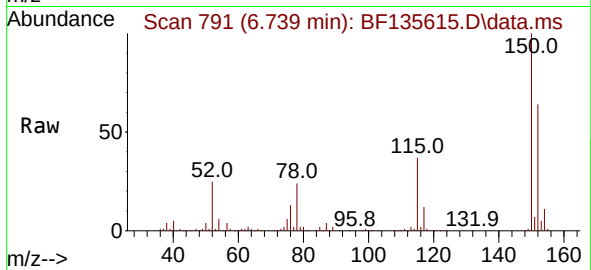
Reviewed By :Yogesh Patel 10/06/2023  
Supervised By :mohammad ahmed 10/07/2023





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.739 min Scan# 795  
Delta R.T. 0.000 min  
Lab File: BF135615.D  
Acq: 05 Oct 2023 23:25

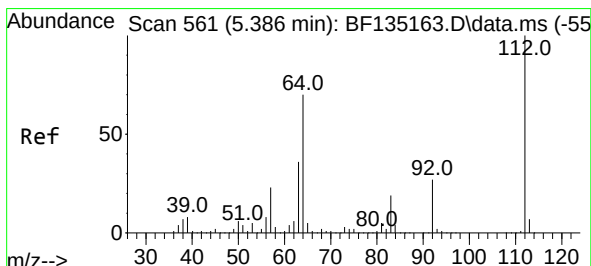
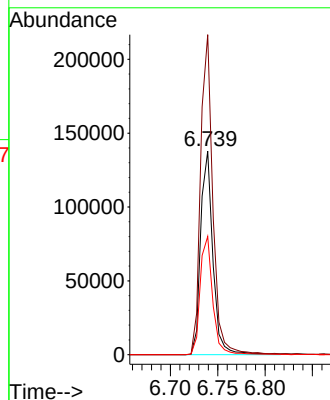
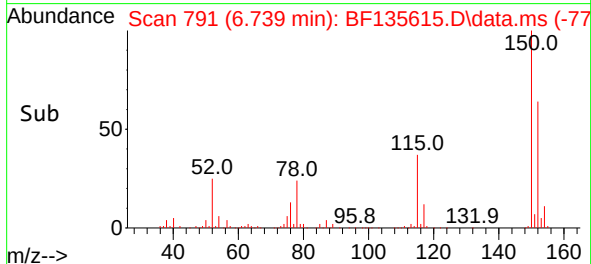
Instrument :  
BNA\_F  
ClientSampleId :  
WC-1DL



Tgt Ion:152 Resp: 124339  
Ion Ratio Lower Upper  
152 100  
150 157.3 127.8 191.6  
115 58.1 49.8 74.8

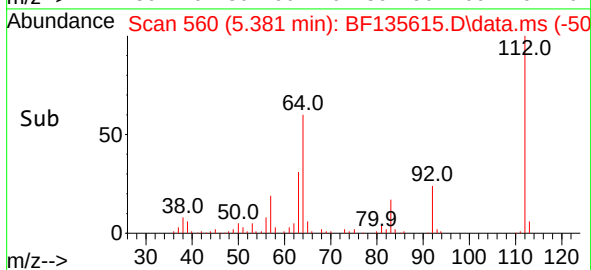
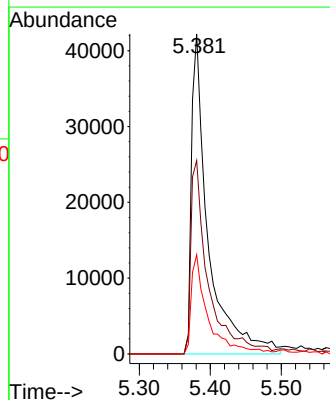
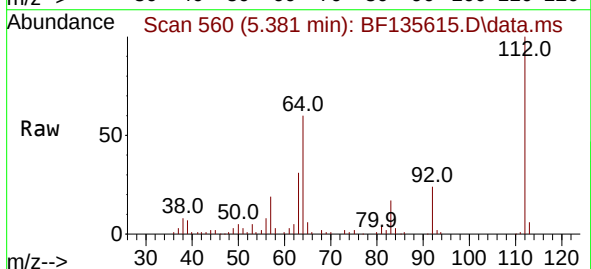
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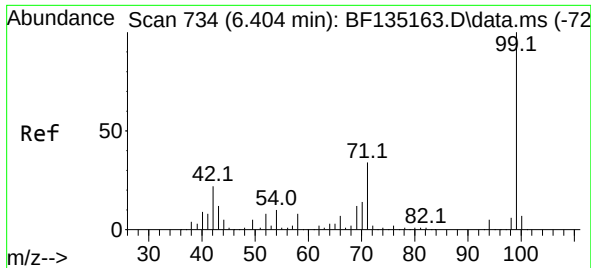
Reviewed By :Yogesh Patel 10/06/2023  
Supervised By :mohammad ahmed 10/07/2023



#5  
2-Fluorophenol  
Concen: 9.060 ng  
RT: 5.381 min Scan# 560  
Delta R.T. 0.012 min  
Lab File: BF135615.D  
Acq: 05 Oct 2023 23:25

Tgt Ion:112 Resp: 69264  
Ion Ratio Lower Upper  
112 100  
64 60.4 55.9 83.9  
63 31.0 29.0 43.6





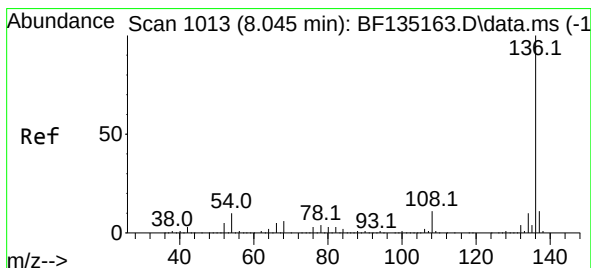
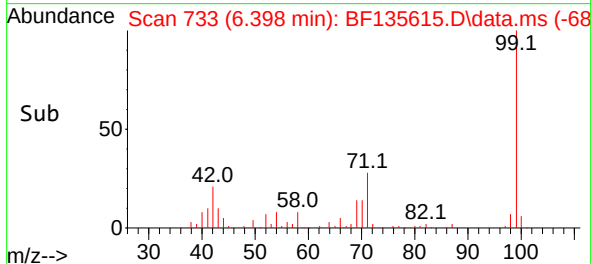
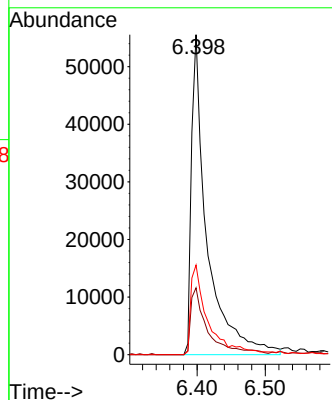
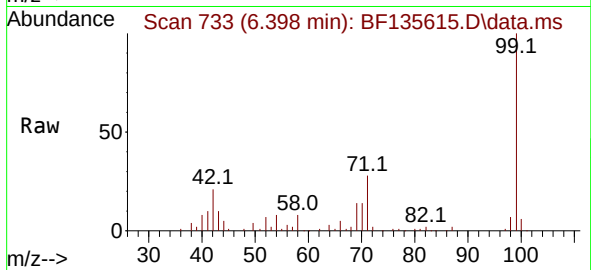
#7  
Phenol-d6  
Concen: 9.007 ng  
RT: 6.398 min Scan# 71  
Delta R.T. 0.012 min  
Lab File: BF135615.D  
Acq: 05 Oct 2023 23:25

Instrument :  
BNA\_F  
ClientSampleId :  
WC-1DL

Tgt Ion: 99 Resp: 87552  
Ion Ratio Lower Upper  
99 100  
42 20.9 17.9 26.9  
71 28.0 27.0 40.6

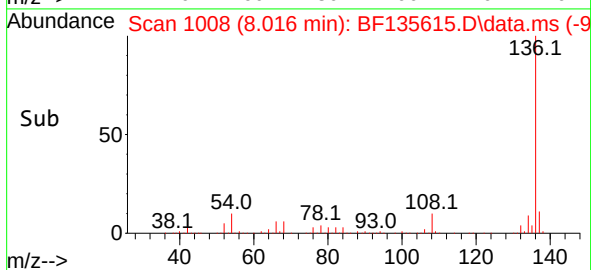
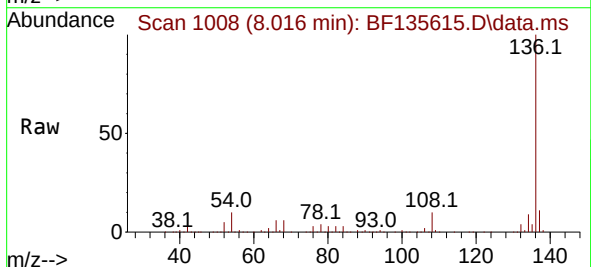
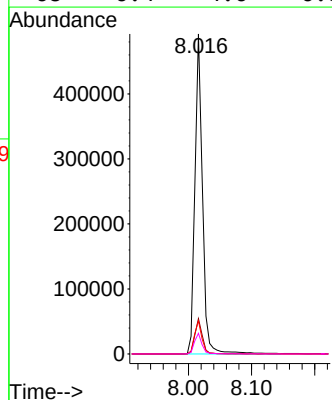
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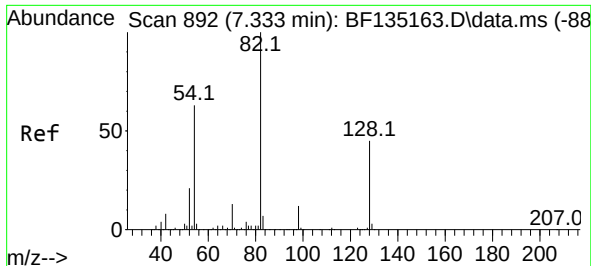
Reviewed By :Yogesh Patel 10/06/2023  
Supervised By :mohammad ahmed 10/07/2023



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.016 min Scan# 1008  
Delta R.T. 0.000 min  
Lab File: BF135615.D  
Acq: 05 Oct 2023 23:25

Tgt Ion:136 Resp: 412411  
Ion Ratio Lower Upper  
136 100  
137 11.1 8.8 13.2  
54 10.3 7.7 11.5  
68 6.4 4.6 6.8





#23

Nitrobenzene-d5

Concen: 6.841 ng

RT: 7.304 min Scan# 81

Delta R.T. -0.006 min

Lab File: BF135615.D

Acq: 05 Oct 2023 23:25

Instrument :

BNA\_F

ClientSampleId :

WC-1DL

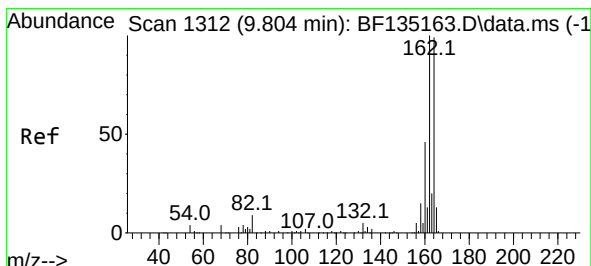
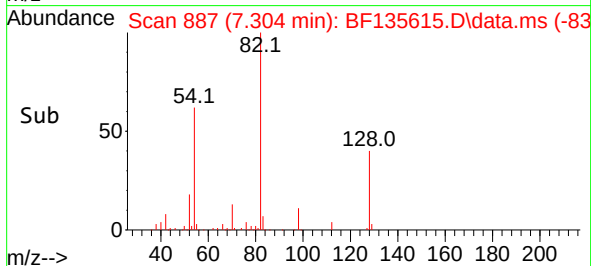
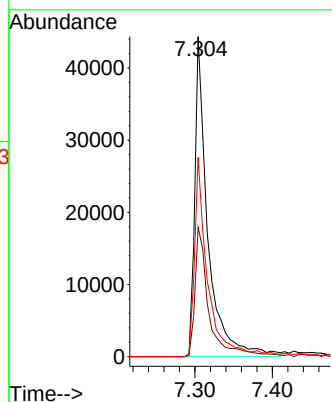
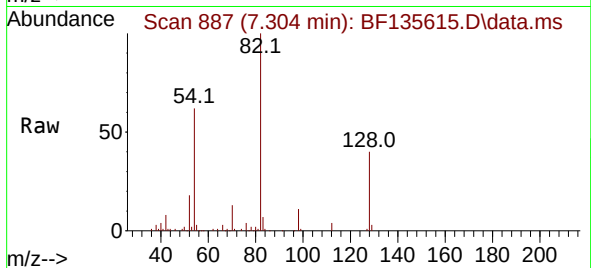
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 82    | Resp: | 51920 |
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 40.4  | 35.8  | 53.6  |
| 54        | 62.2  | 50.6  | 76.0  |

Manual Integrations

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Reviewed By :Yogesh Patel 10/06/2023

Supervised By :mohammad ahmed 10/07/2023



#39

Acenaphthene-d10

Concen: 20.000 ng

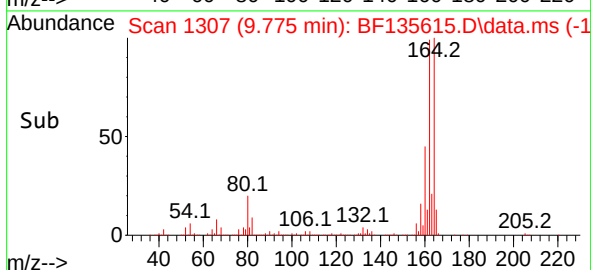
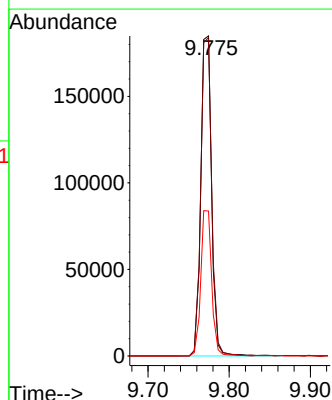
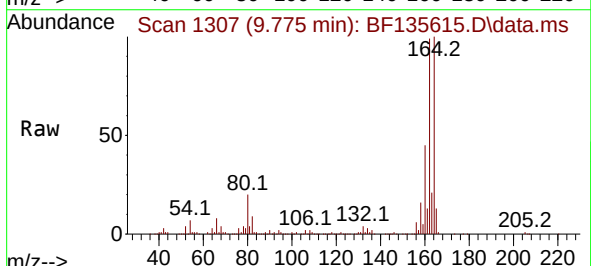
RT: 9.775 min Scan# 1307

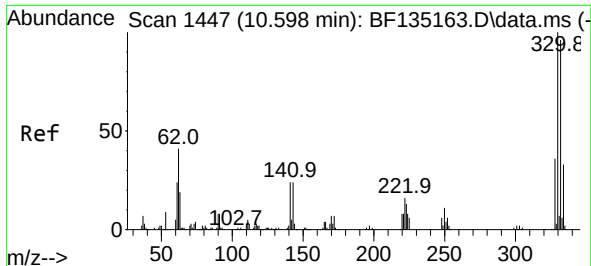
Delta R.T. 0.000 min

Lab File: BF135615.D

Acq: 05 Oct 2023 23:25

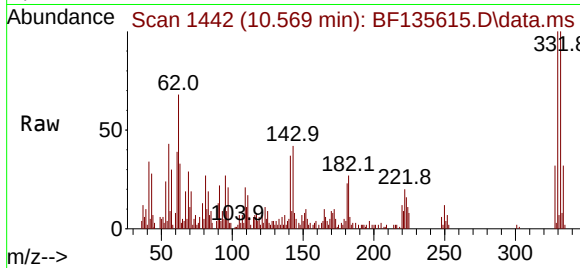
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 164   | Resp: | 171100 |
| Ion Ratio | Lower | Upper |        |
| 164       | 100   |       |        |
| 162       | 99.5  | 81.0  | 121.4  |
| 160       | 45.3  | 37.0  | 55.4   |





#42  
2,4,6-Tribromophenol  
Concen: 6.820 ng  
RT: 10.569 min Scan# 1447  
Delta R.T. 0.000 min  
Lab File: BF135615.D  
Acq: 05 Oct 2023 23:25

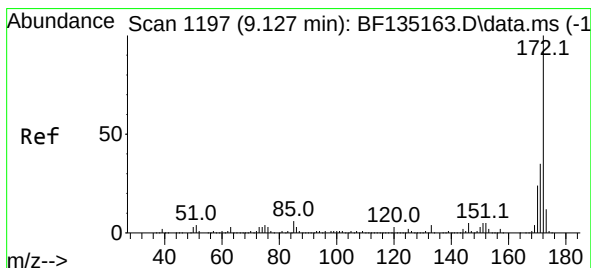
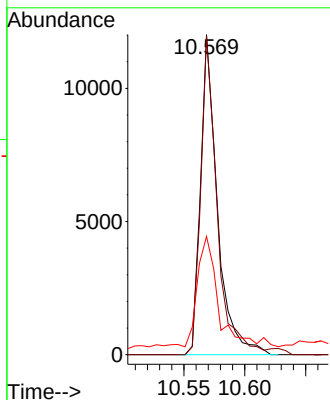
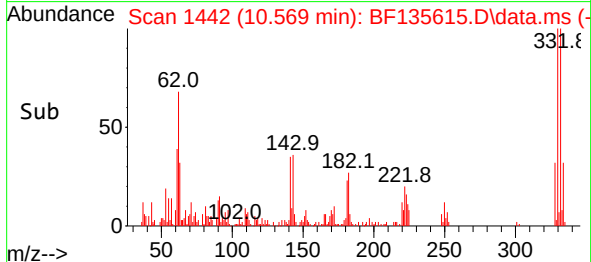
Instrument :  
BNA\_F  
ClientSampleId :  
WC-1DL



Tgt Ion: 330 Resp: 11597  
Ion Ratio Lower Upper  
330 100  
332 98.3 77.3 115.9  
141 47.8 25.8 38.8

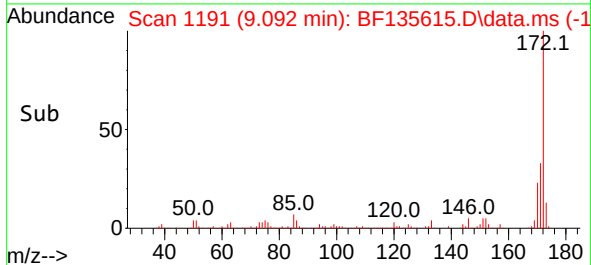
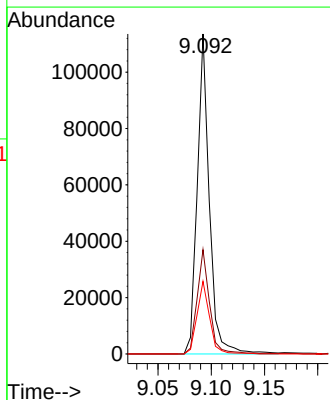
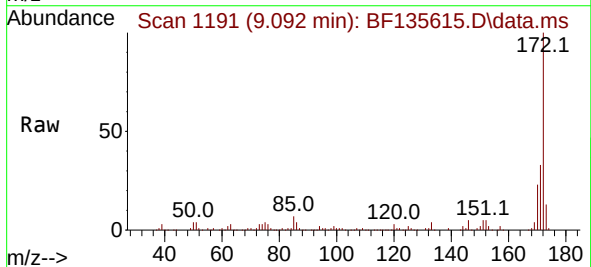
Manual Integrations  
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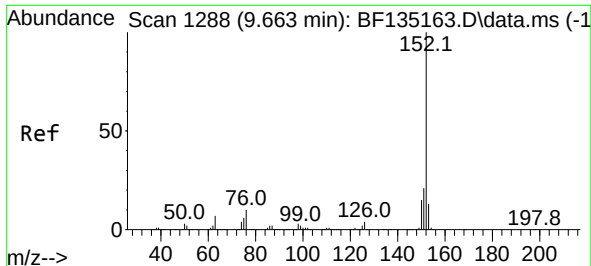
Reviewed By :Yogesh Patel 10/06/2023  
Supervised By :mohammad ahmed 10/07/2023



#45  
2-Fluorobiphenyl  
Concen: 7.930 ng  
RT: 9.092 min Scan# 1191  
Delta R.T. -0.006 min  
Lab File: BF135615.D  
Acq: 05 Oct 2023 23:25

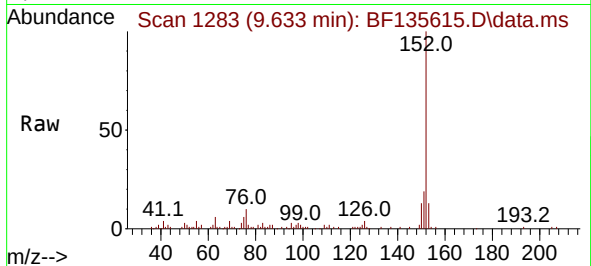
Tgt Ion: 172 Resp: 89937  
Ion Ratio Lower Upper  
172 100  
171 32.6 28.4 42.6  
170 22.7 19.0 28.4





#49  
Acenaphthylene  
Concen: 2.228 ng  
RT: 9.633 min Scan# 1560  
Delta R.T. -0.006 min  
Lab File: BF135615.D  
Acq: 05 Oct 2023 23:25

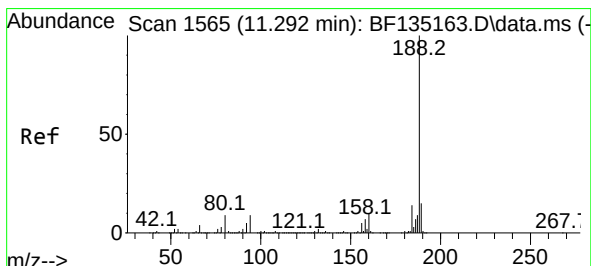
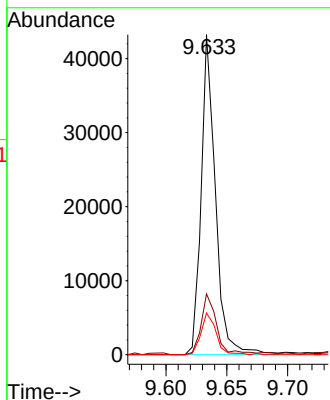
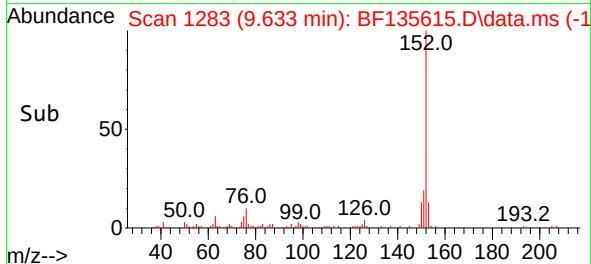
Instrument :  
BNA\_F  
ClientSampleId :  
WC-1DL



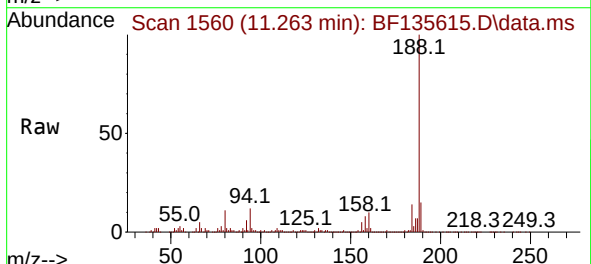
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Ion Ratio Lower Upper  
152 100  
151 19.0 16.4 24.6  
153 13.0 10.4 15.6

Manual Integrations  
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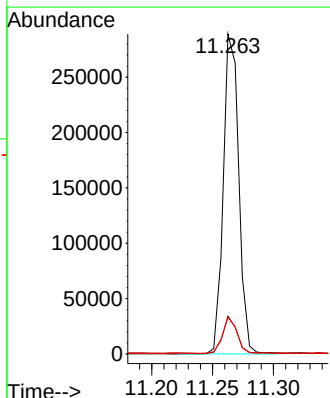
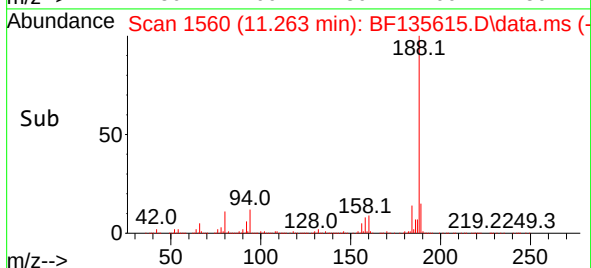
Reviewed By :Yogesh Patel 10/06/2023  
Supervised By :mohammad ahmed 10/07/2023

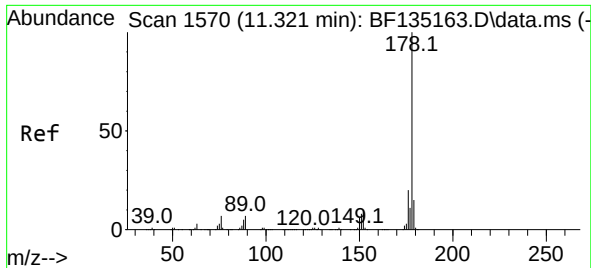


#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.263 min Scan# 1560  
Delta R.T. -0.006 min  
Lab File: BF135615.D  
Acq: 05 Oct 2023 23:25



Tgt Ion:188 Resp: 255682  
Ion Ratio Lower Upper  
188 100  
94 11.8 7.0 10.6#  
80 11.4 7.5 11.3#





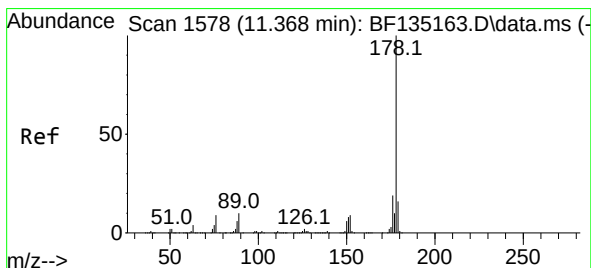
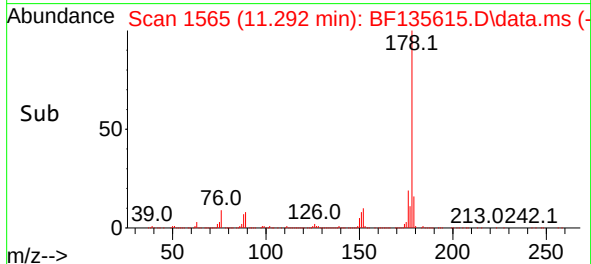
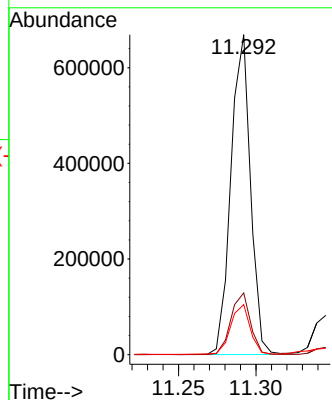
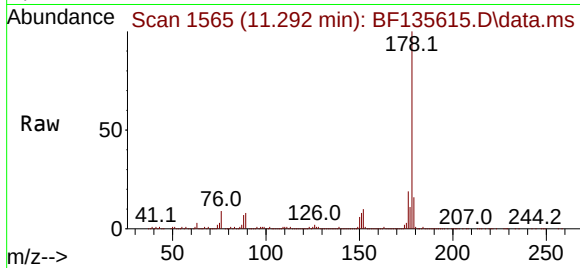
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Phenanthrene  
Concen: 48.513 ng  
RT: 11.292 min Scan# 1565  
Delta R.T. 0.000 min  
Lab File: BF135615.D  
Acq: 05 Oct 2023 23:25

Instrument :  
BNA\_F  
ClientSampleId :  
WC-1DL

Tgt Ion:178 Resp: 586649  
Ion Ratio Lower Upper  
178 100  
176 19.3 15.6 23.4  
179 15.7 12.0 18.0

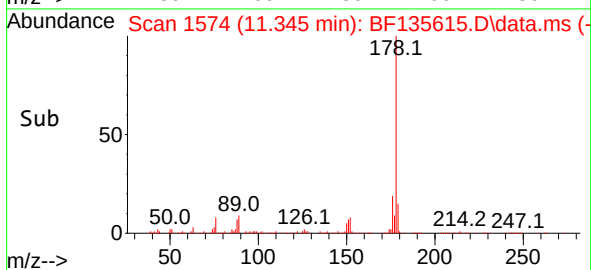
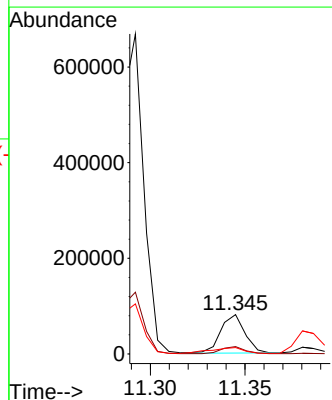
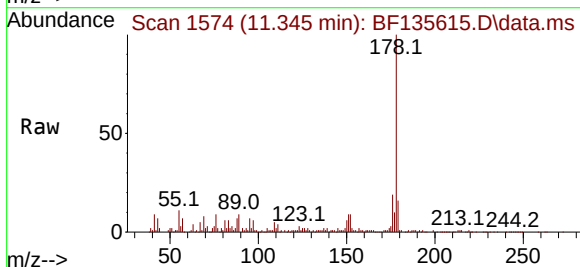
Manual Integrations  
APPROVED

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Supervised By :mohammad ahmed 10/07/2023

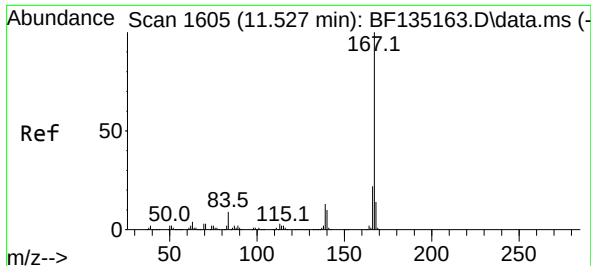


#72  
Anthracene  
Concen: 5.824 ng  
RT: 11.345 min Scan# 1574  
Delta R.T. 0.000 min  
Lab File: BF135615.D  
Acq: 05 Oct 2023 23:25

Tgt Ion:178 Resp: 72392  
Ion Ratio Lower Upper  
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176 18.8 15.4 23.2  
179 16.1 12.6 19.0

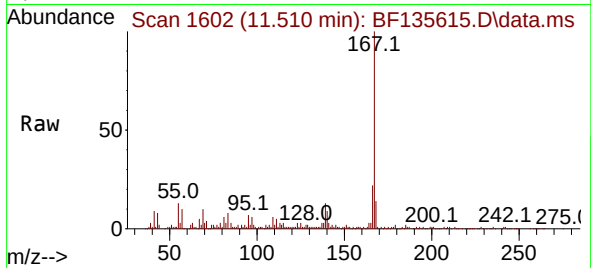






#73  
 Carbazole  
 Concen: 7.303 ng  
 RT: 11.510 min Scan# 11  
 Delta R.T. 0.000 min  
 Lab File: BF135615.D  
 Acq: 05 Oct 2023 23:25

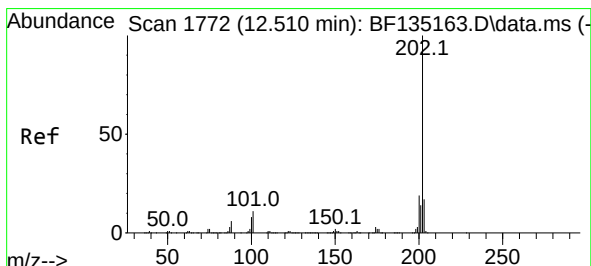
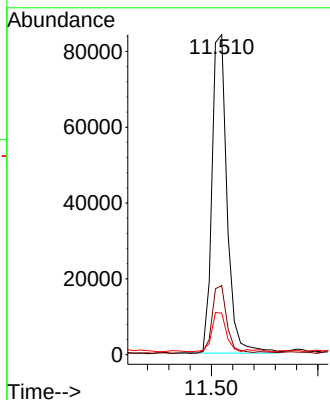
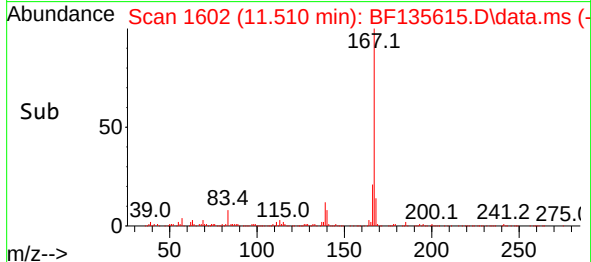
Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-1DL



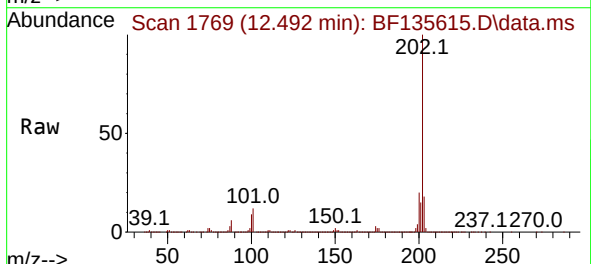
Tgt Ion:167 Resp: 82640  
 Ion Ratio Lower Upper  
 167 100  
 166 21.6 17.4 26.0  
 139 13.0 10.6 15.8

Manual Integrations  
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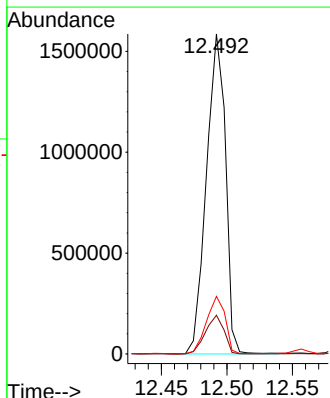
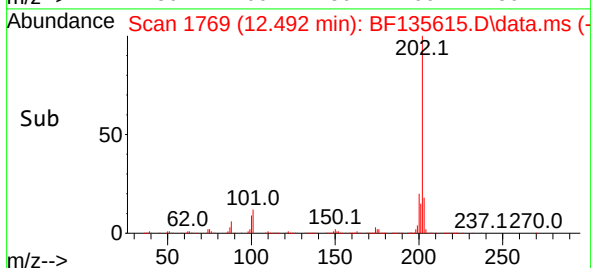
Reviewed By :Yogesh Patel 10/06/2023  
 Supervised By :mohammad ahmed 10/07/2023

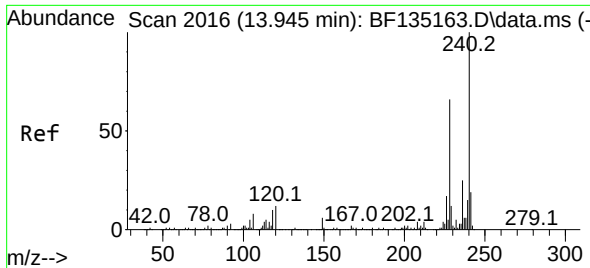


#75  
 Fluoranthene  
 Concen: 127.582 ng  
 RT: 12.492 min Scan# 1769  
 Delta R.T. 0.006 min  
 Lab File: BF135615.D  
 Acq: 05 Oct 2023 23:25



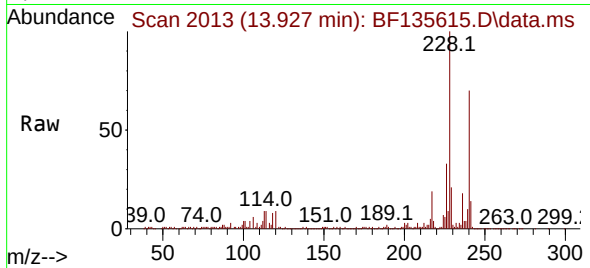
Tgt Ion:202 Resp: 1607592  
 Ion Ratio Lower Upper  
 202 100  
 101 12.1 0.0 31.3  
 203 18.0 0.0 37.4





#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.927 min Scan# 2016  
Delta R.T. 0.000 min  
Lab File: BF135615.D  
Acq: 05 Oct 2023 23:25

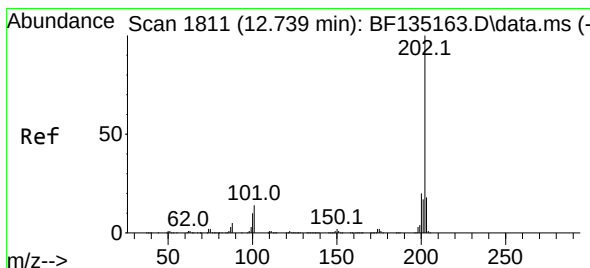
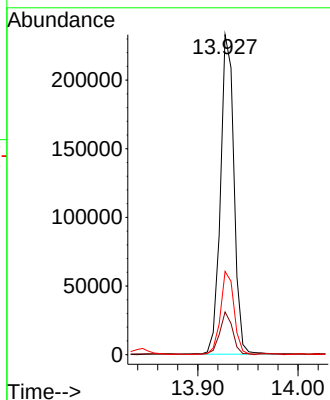
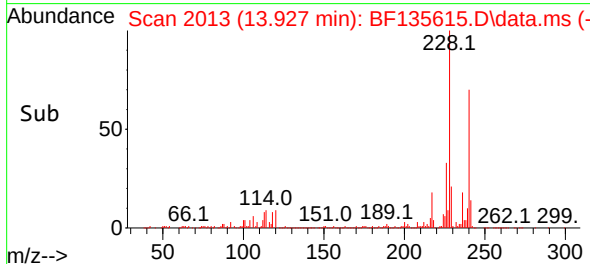
Instrument :  
BNA\_F  
ClientSampleId :  
WC-1DL



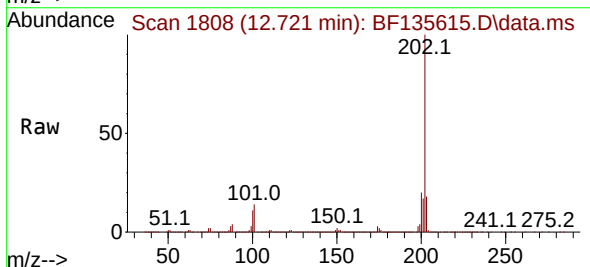
Tgt Ion:240 Resp: 21707  
Ion Ratio Lower Upper  
240 100  
120 13.4 9.4 14.2  
236 26.0 19.8 29.8

Manual Integrations  
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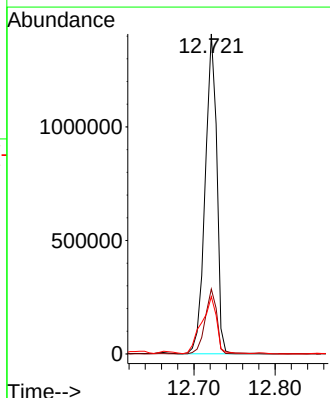
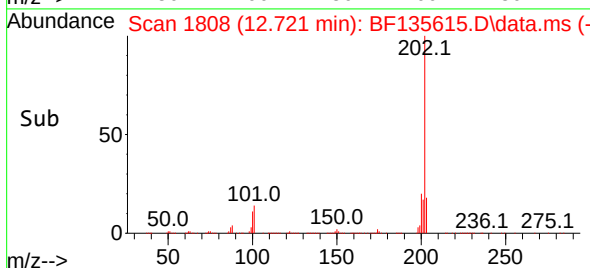
Reviewed By :Yogesh Patel 10/06/2023  
Supervised By :mohammad ahmed 10/07/2023

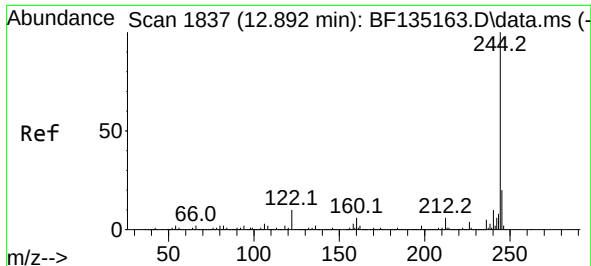


#78  
Pyrene  
Concen: 67.428 ng  
RT: 12.721 min Scan# 1808  
Delta R.T. 0.006 min  
Lab File: BF135615.D  
Acq: 05 Oct 2023 23:25



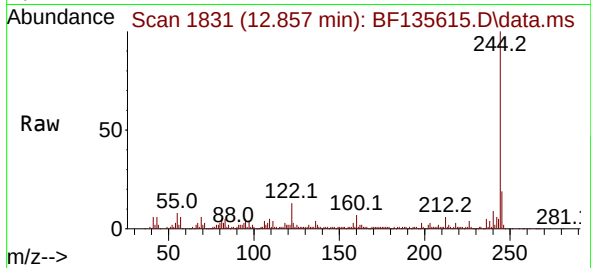
Tgt Ion:202 Resp: 1393570  
Ion Ratio Lower Upper  
202 100  
200 20.3 16.2 24.2  
203 17.9 14.2 21.4





#79  
 Terphenyl-d14  
 Concen: 4.988 ng  
 RT: 12.857 min Scan# 11  
 Delta R.T. -0.006 min  
 Lab File: BF135615.D  
 Acq: 05 Oct 2023 23:25

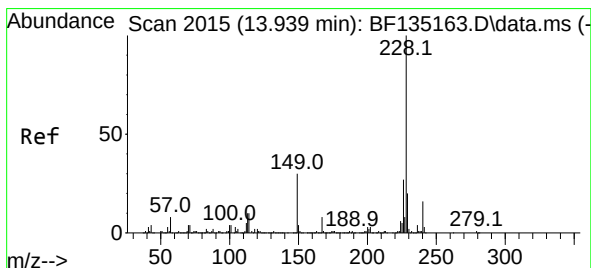
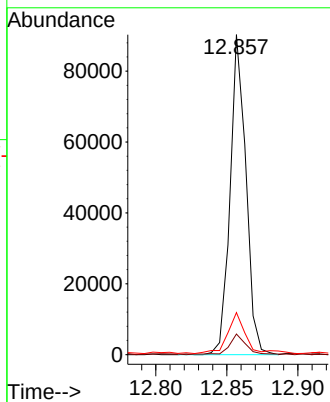
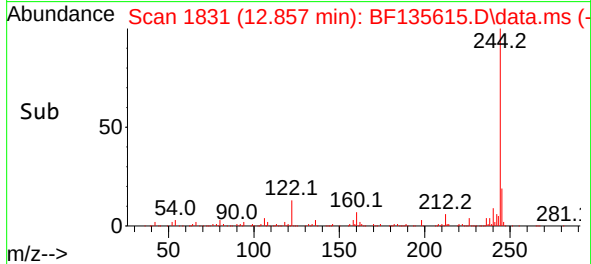
Instrument :  
 BNA\_F  
 ClientSampleId :  
 WC-1DL



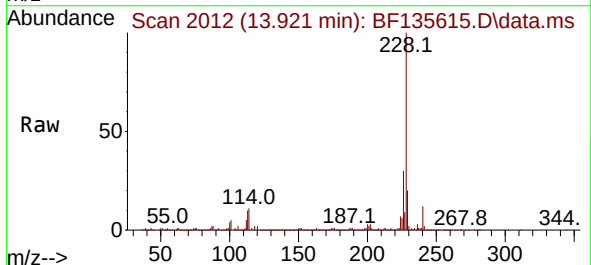
Tgt Ion:244 Resp: 6984  
 Ion Ratio Lower Upper  
 244 100  
 212 6.4 5.1 7.7  
 122 13.2 7.9 11.9

Manual Integrations  
 APPROVED

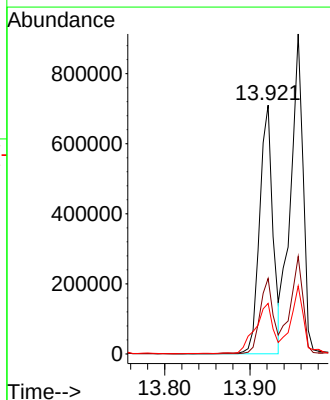
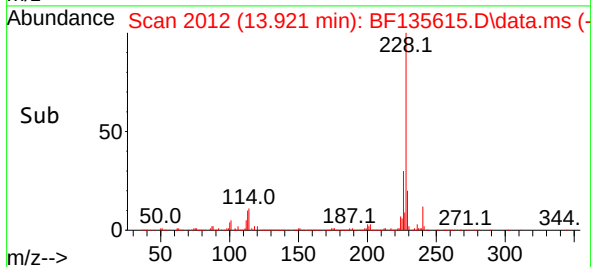
Reviewed By :Yogesh Patel 10/06/2023  
 Supervised By :mohammad ahmed 10/07/2023

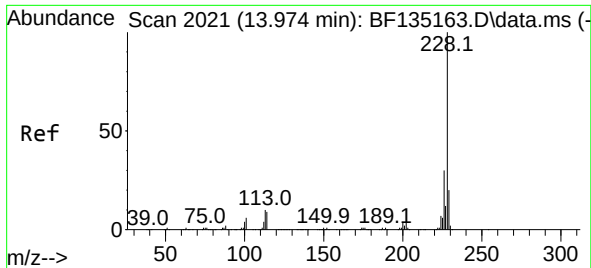


#81  
 Benzo(a)anthracene  
 Concen: 55.006 ng  
 RT: 13.921 min Scan# 2012  
 Delta R.T. 0.006 min  
 Lab File: BF135615.D  
 Acq: 05 Oct 2023 23:25



Tgt Ion:228 Resp: 771034  
 Ion Ratio Lower Upper  
 228 100  
 226 30.4 21.7 32.5  
 229 20.3 15.8 23.8





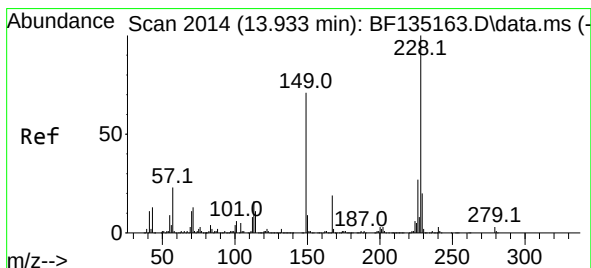
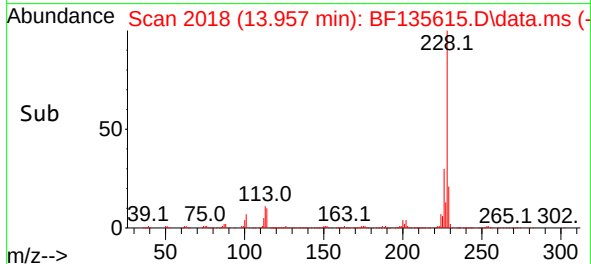
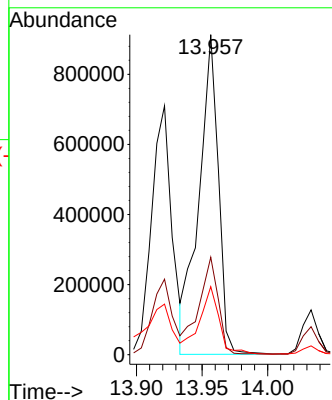
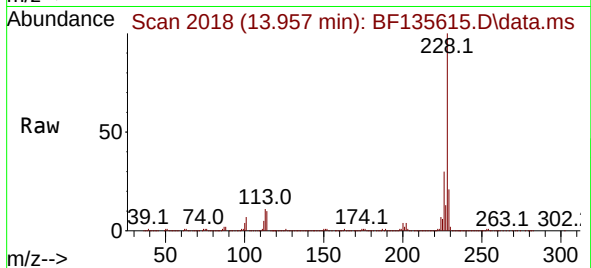
#83  
Chrysene  
Concen: 67.803 ng  
RT: 13.957 min Scan# 2009  
Delta R.T. 0.006 min  
Lab File: BF135615.D  
Acq: 05 Oct 2023 23:25

Instrument :  
BNA\_F  
ClientSampleId :  
WC-1DL

Tgt Ion:228 Resp: 944934  
Ion Ratio Lower Upper  
228 100  
226 30.5 24.3 36.5  
229 21.2 16.0 24.0

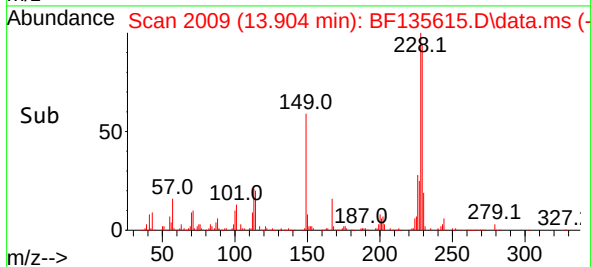
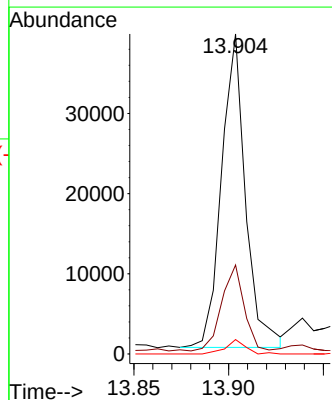
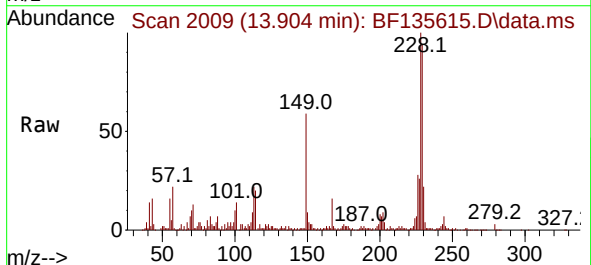
Manual Integrations  
APPROVED

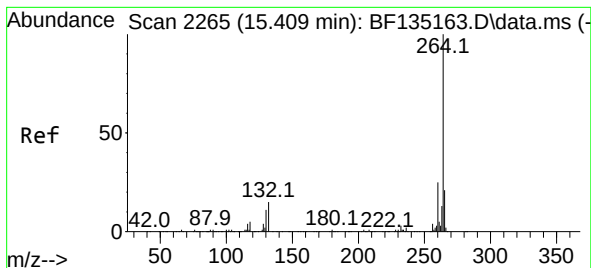
Reviewed By :Yogesh Patel 10/06/2023  
Supervised By :mohammad ahmed 10/07/2023



#84  
Bis(2-ethylhexyl)phthalate  
Concen: 4.604 ng  
RT: 13.904 min Scan# 2009  
Delta R.T. 0.000 min  
Lab File: BF135615.D  
Acq: 05 Oct 2023 23:25

Tgt Ion:149 Resp: 34376  
Ion Ratio Lower Upper  
149 100  
167 27.8 21.9 32.9  
279 4.5 3.3 4.9





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.392 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF135615.D

Acq: 05 Oct 2023 23:25

Instrument :

BNA\_F

ClientSampleId :

WC-1DL

Tgt Ion:264 Resp: 23363

Ion Ratio Lower Upper

264 100

260 23.1 19.8 29.6

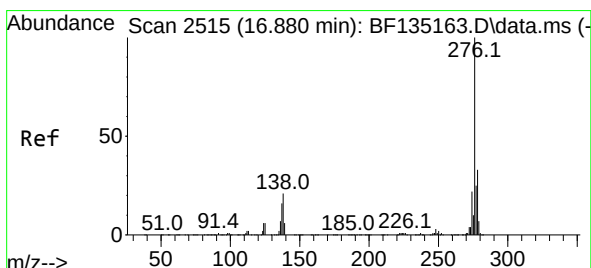
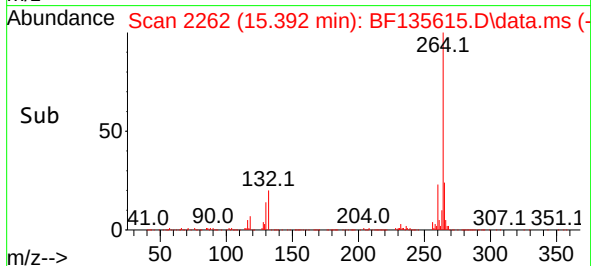
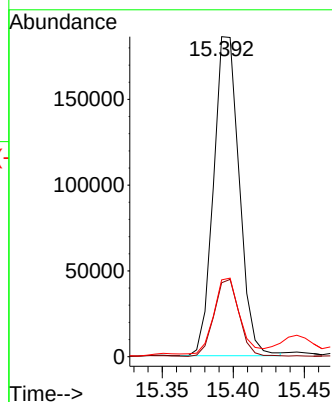
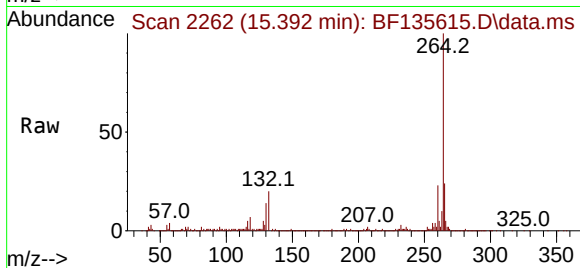
265 24.0 17.0 25.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/06/2023

Supervised By :mohammad ahmed 10/07/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 30.491 ng

RT: 16.880 min Scan# 2515

Delta R.T. 0.012 min

Lab File: BF135615.D

Acq: 05 Oct 2023 23:25

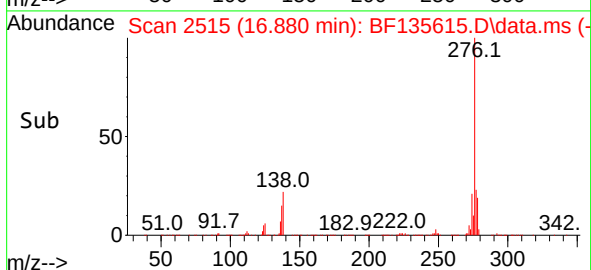
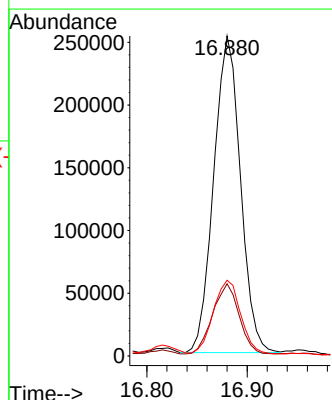
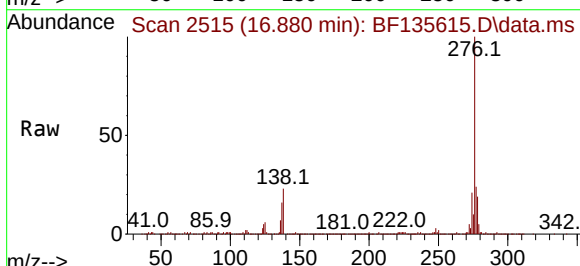
Tgt Ion:276 Resp: 467080

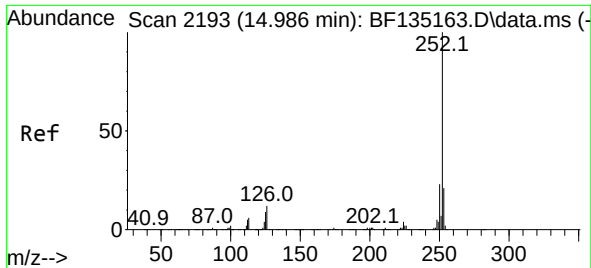
Ion Ratio Lower Upper

276 100

138 22.8 19.2 28.8

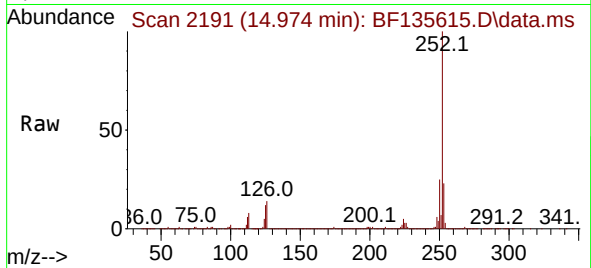
277 23.7 19.7 29.5





#88  
Benzo(b)fluoranthene  
Concen: 100.251 ng m  
RT: 14.974 min Scan# 2191  
Delta R.T. 0.012 min  
Lab File: BF135615.D  
Acq: 05 Oct 2023 23:25

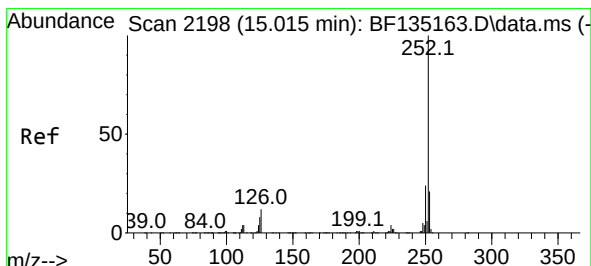
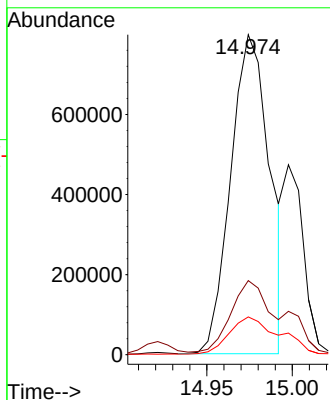
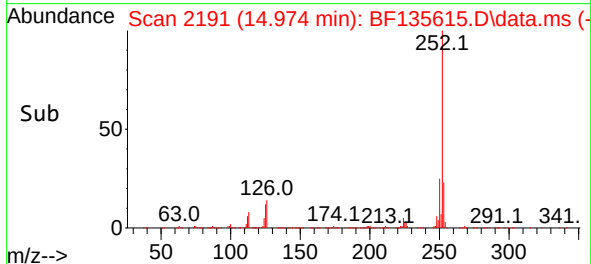
Instrument :  
BNA\_F  
Client SampleId :  
WC-1DL



Tgt Ion:252 Resp: 1267908  
Ion Ratio Lower Upper  
252 100  
253 23.1 17.2 25.8  
125 11.8 7.1 10.7

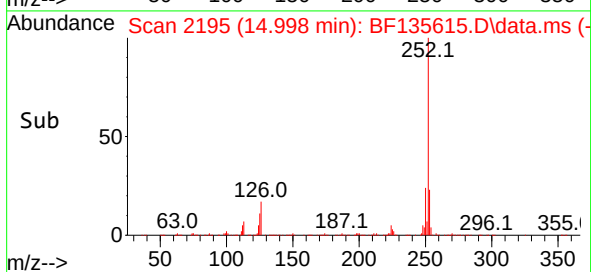
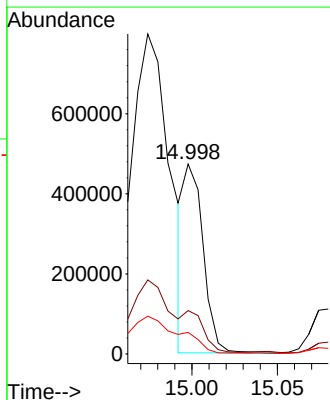
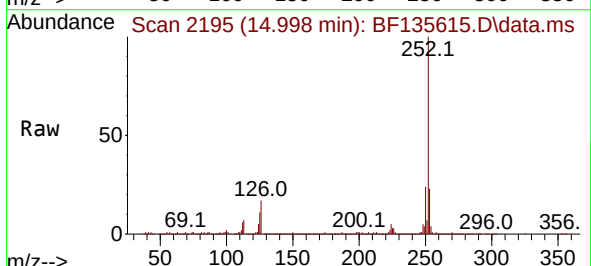
Manual Integrations  
APPROVED

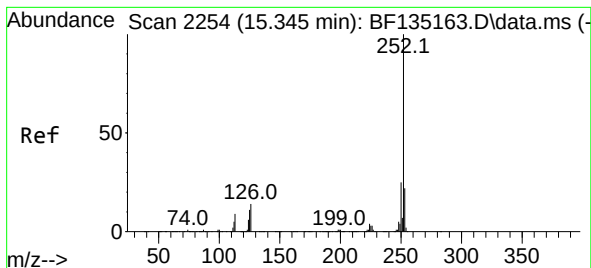
Reviewed By :Yogesh Patel 10/06/2023  
Supervised By :mohammad ahmed 10/07/2023



#89  
Benzo(k)fluoranthene  
Concen: 29.706 ng m  
RT: 14.998 min Scan# 2195  
Delta R.T. 0.006 min  
Lab File: BF135615.D  
Acq: 05 Oct 2023 23:25

Tgt Ion:252 Resp: 371130  
Ion Ratio Lower Upper  
252 100  
253 22.8 17.4 26.0  
125 11.4 7.2 10.8





#90

Benzo(a)pyrene

Concen: 59.504 ng

RT: 15.339 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF135615.D

Acq: 05 Oct 2023 23:25

Instrument :

BNA\_F

ClientSampleId :

WC-1DL

Tgt Ion:252 Resp: 717674

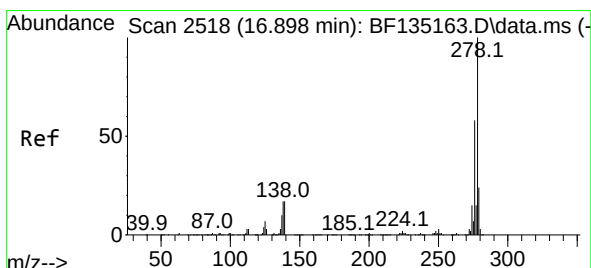
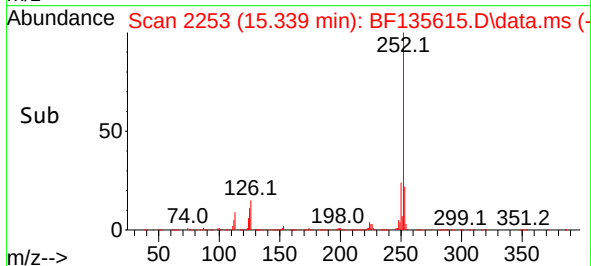
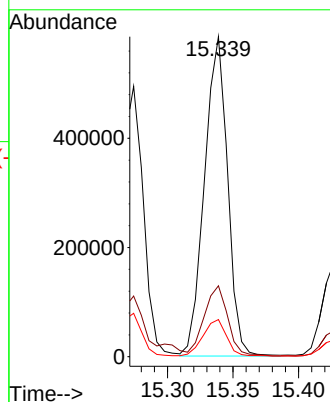
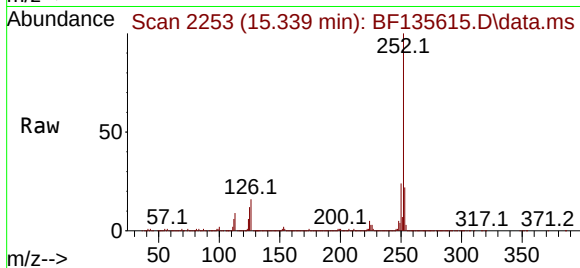
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 22.2  | 17.5  | 26.3  |
| 125 | 11.6  | 9.2   | 13.8  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/06/2023

Supervised By :mohammad ahmed 10/07/2023



#91

Dibenzo(a,h)anthracene

Concen: 8.103 ng m

RT: 16.880 min Scan# 2515

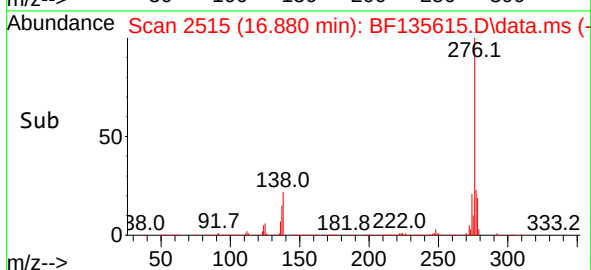
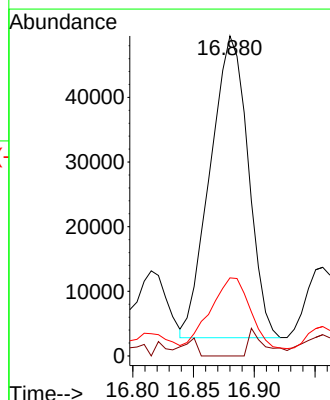
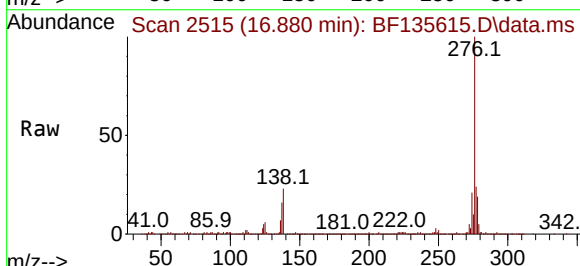
Delta R.T. 0.000 min

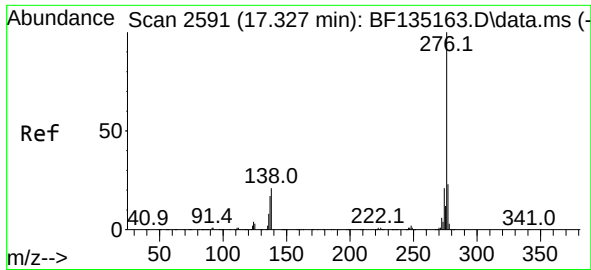
Lab File: BF135615.D

Acq: 05 Oct 2023 23:25

Tgt Ion:278 Resp: 101559

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 278 | 100   |       |       |
| 139 | 0.0   | 13.4  | 20.0# |
| 279 | 24.4  | 19.0  | 28.6  |





#92

Benzo(g,h,i)perylene

Concen: 34.597 ng

RT: 17.327 min Scan# 2591

Delta R.T. 0.012 min

Lab File: BF135615.D

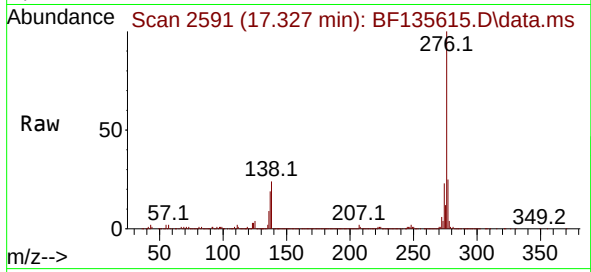
Acq: 05 Oct 2023 23:25

Instrument :

BNA\_F

ClientSampleId :

WC-1DL



Tgt Ion:276 Resp: 452878

Ion Ratio Lower Upper

276 100

277 24.7 18.8 28.2

138 24.0 16.9 25.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/06/2023

Supervised By :mohammad ahmed 10/07/2023

