

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF060723\  
 Data File : BF133625.D  
 Acq On : 07 Jun 2023 15:18  
 Operator : CG\JU  
 Sample : 03018-03  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 362

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 06/08/2023  
 Supervised By :mohammad ahmed 06/08/2023

Quant Time: Jun 07 16:52:17 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF052523.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 07 11:27:15 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.834  | 152  | 120882   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.116  | 136  | 441682   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.875  | 164  | 198216   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.363 | 188  | 317690   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 14.010 | 240  | 209479   | 20.000 | ng    | # 0.00   |
| 86) Perylene-d12            | 15.474 | 264  | 166882   | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.451  | 112  | 649989   | 89.714 | ng    | 0.00     |
| 7) Phenol-d6                | 6.463  | 99   | 788633   | 88.424 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.398  | 82   | 520952   | 78.752 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.663 | 330  | 184063   | 93.156 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.198  | 172  | 913439   | 71.126 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.957 | 244  | 781576   | 66.337 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 31) Naphthalene             | 8.139  | 128  | 77510    | 3.620  | ng    | 99       |
| 37) 2-Methylnaphthalene     | 8.833  | 142  | 57097    | 3.905  | ng    | 98       |
| 38) 1-Methylnaphthalene     | 8.928  | 142  | 36707    | 2.693  | ng    | 100      |
| 71) Phenanthrene            | 11.386 | 178  | 139259   | 8.655  | ng    | 99       |
| 75) Fluoranthene            | 12.580 | 202  | 231959   | 13.051 | ng    | 97       |
| 78) Pyrene                  | 12.810 | 202  | 217592   | 12.207 | ng    | 98       |
| 81) Benzo(a)anthracene      | 13.998 | 228  | 116142   | 8.323  | ng    | 97       |
| 83) Chrysene                | 14.033 | 228  | 133125   | 9.450  | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 16.927 | 276  | 56868    | 5.350  | ng    | 93       |
| 88) Benzo(b)fluoranthene    | 15.045 | 252  | 134531m  | 12.380 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.068 | 252  | 39715m   | 3.748  | ng    |          |
| 90) Benzo(a)pyrene          | 15.409 | 252  | 84873    | 8.583  | ng    | 97       |
| 92) Benzo(g,h,i)perylene    | 17.368 | 276  | 52281    | 6.016  | ng    | 95       |
| -----                       |        |      |          |        |       |          |

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

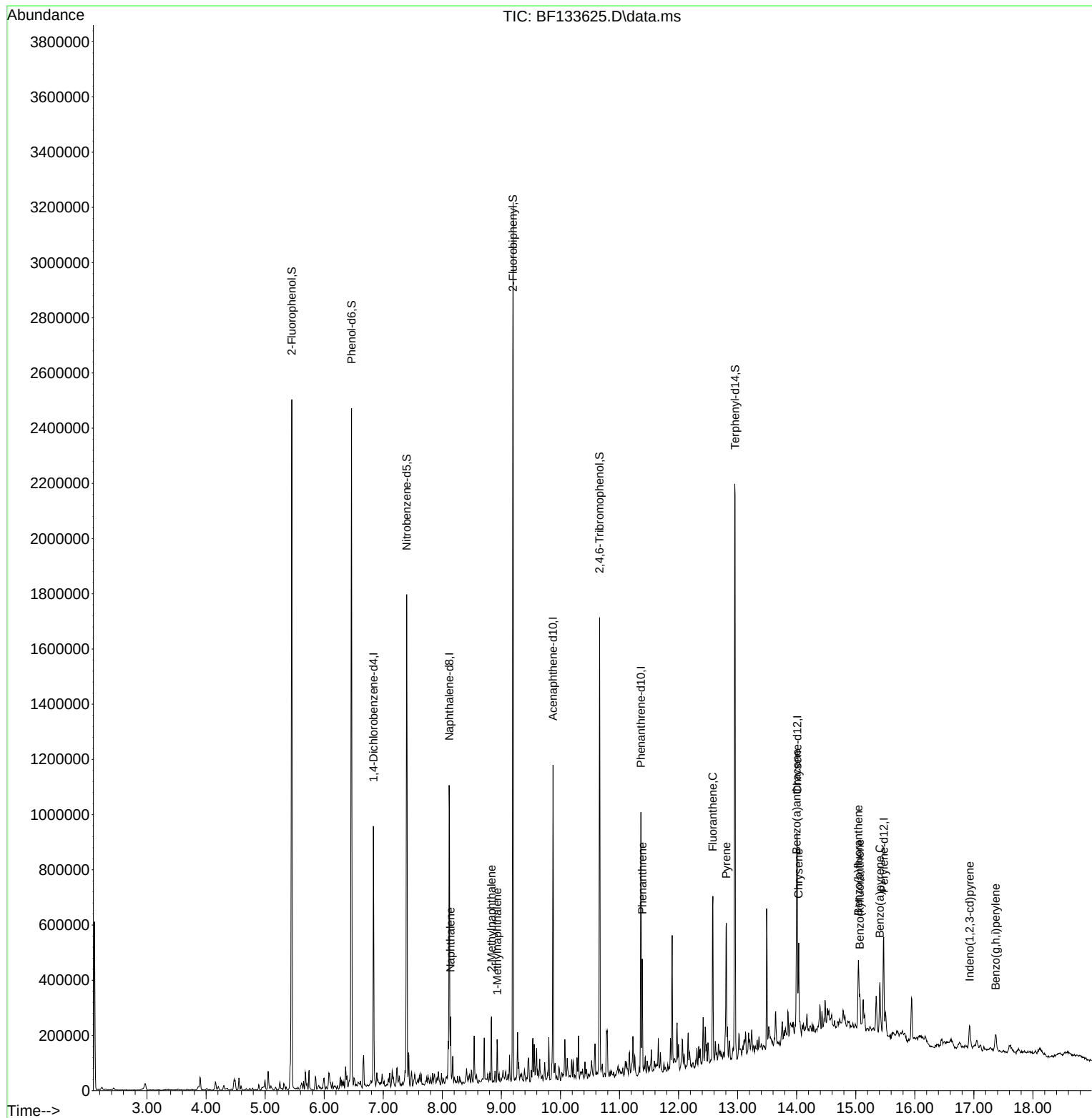
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF060723\  
Data File : BF133625.D  
Acq On : 07 Jun 2023 15:18  
Operator : CG\JU  
Sample : 03018-03  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

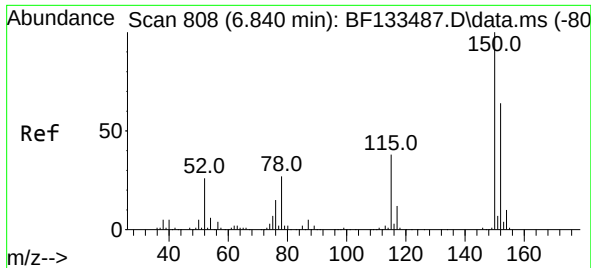
Instrument :  
BNA\_F  
ClientSampleId :  
362

Quant Time: Jun 07 16:52:17 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF052523.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jun 07 11:27:15 2023  
Response via : Initial Calibration

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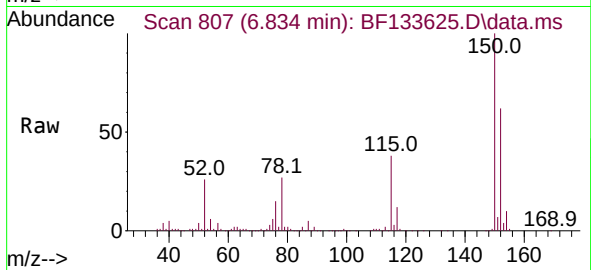
Reviewed By :Yogesh Patel 06/08/2023  
Supervised By :mohammad ahmed 06/08/2023





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.834 min Scan# 808  
Delta R.T. -0.005 min  
Lab File: BF133625.D  
Acq: 07 Jun 2023 15:18

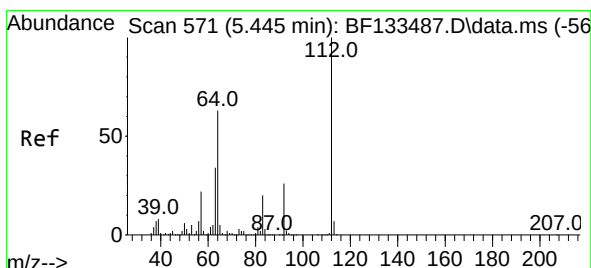
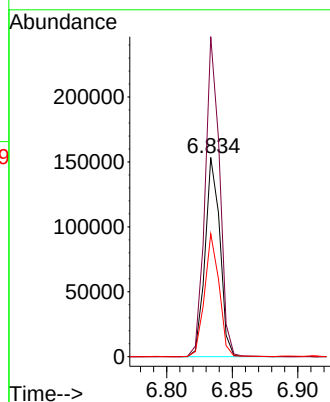
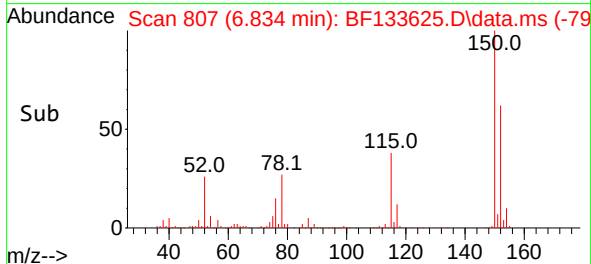
Instrument :  
BNA\_F  
ClientSampleId :  
362



Tgt Ion:152 Resp: 12088  
Ion Ratio Lower Upper  
152 100  
150 160.7 124.9 187.3  
115 61.7 48.1 72.1

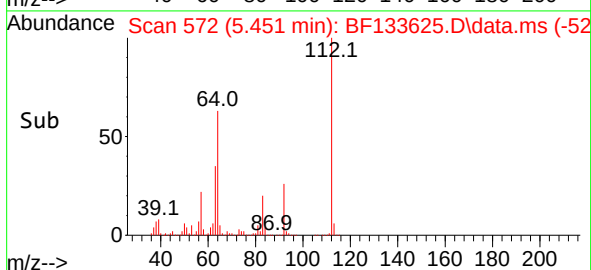
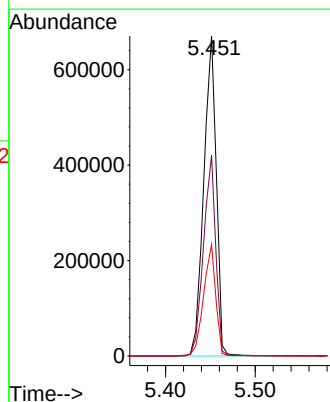
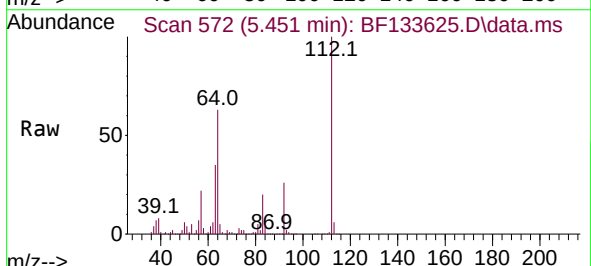
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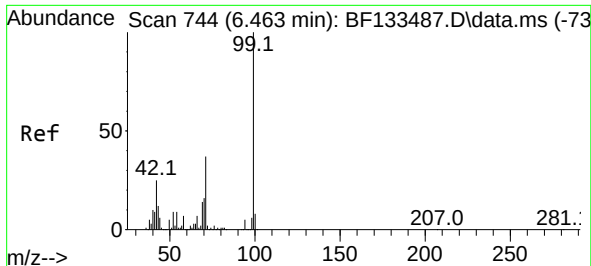
Reviewed By :Yogesh Patel 06/08/2023  
Supervised By :mohammad ahmed 06/08/2023



#5  
2-Fluorophenol  
Concen: 89.714 ng  
RT: 5.451 min Scan# 572  
Delta R.T. 0.006 min  
Lab File: BF133625.D  
Acq: 07 Jun 2023 15:18

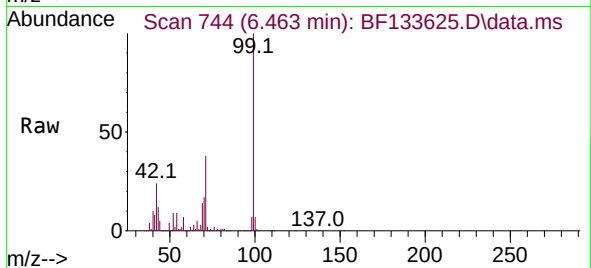
Tgt Ion:112 Resp: 649989  
Ion Ratio Lower Upper  
112 100  
64 62.6 50.1 75.1  
63 34.9 27.5 41.3





#7  
Phenol-d6  
Concen: 88.424 ng  
RT: 6.463 min Scan# 744  
Delta R.T. -0.006 min  
Lab File: BF133625.D  
Acq: 07 Jun 2023 15:18

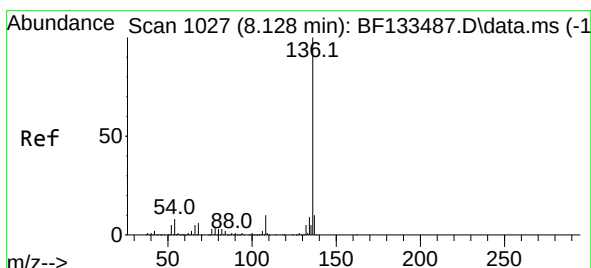
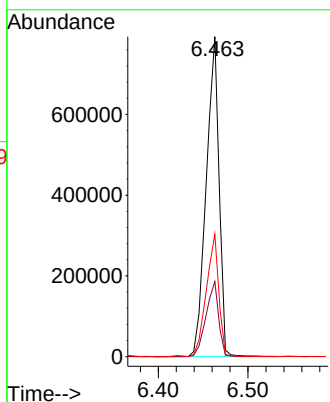
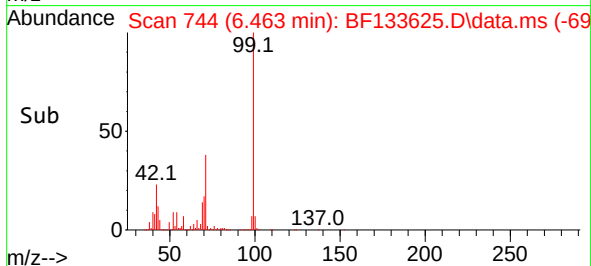
Instrument :  
BNA\_F  
ClientSampleId :  
362



Tgt Ion: 99 Resp: 78863  
Ion Ratio Lower Upper  
99 100  
42 23.5 19.7 29.5  
71 38.3 29.8 44.8

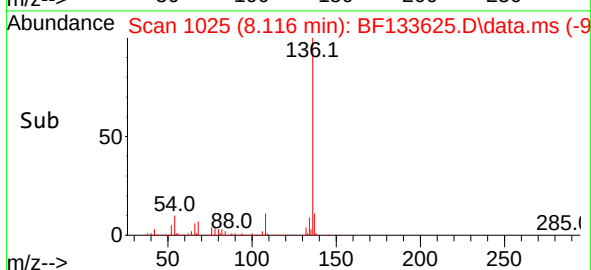
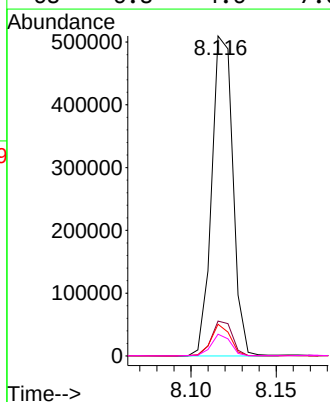
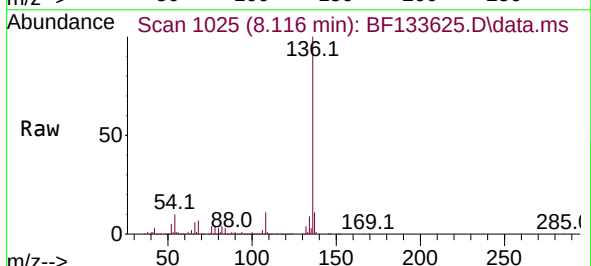
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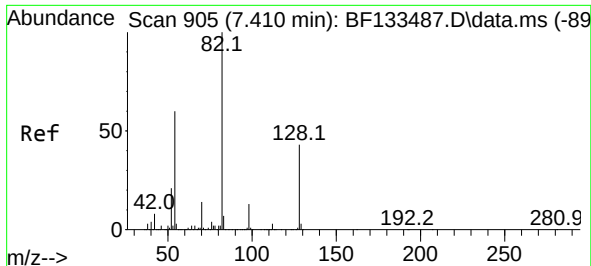
Reviewed By :Yogesh Patel 06/08/2023  
Supervised By :mohammad ahmed 06/08/2023



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.116 min Scan# 1025  
Delta R.T. -0.006 min  
Lab File: BF133625.D  
Acq: 07 Jun 2023 15:18

Tgt Ion:136 Resp: 441682  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.2 12.4  
54 9.9 6.6 10.0  
68 6.8 4.6 7.0





#23

Nitrobenzene-d5

Concen: 78.752 ng

RT: 7.398 min Scan# 90

Delta R.T. -0.006 min

Lab File: BF133625.D

Acq: 07 Jun 2023 15:18

Instrument :

BNA\_F

ClientSampleId :

362

Tgt Ion: 82 Resp: 52095

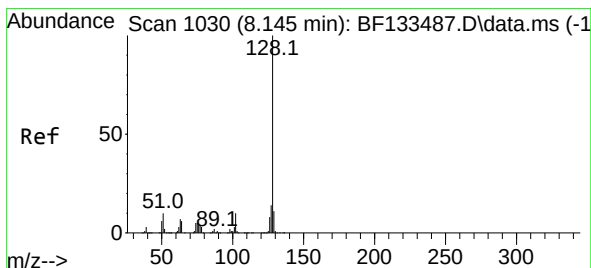
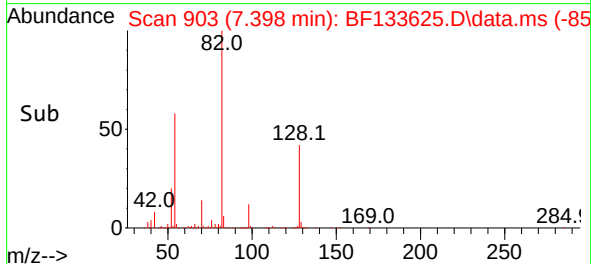
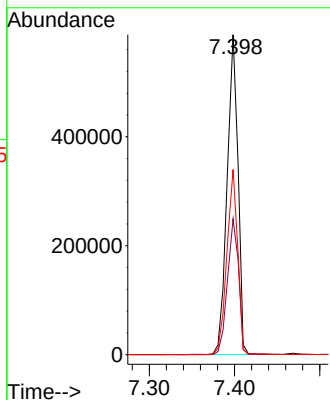
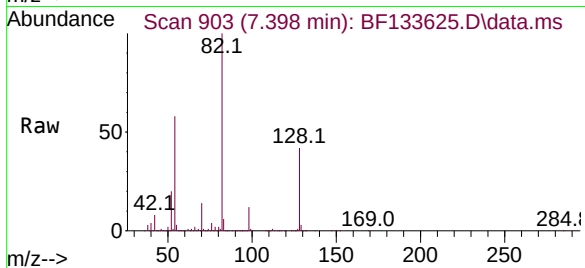
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 42.5  | 34.2  | 51.4  |
| 54  | 57.8  | 48.2  | 72.4  |

Manual Integrations

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Reviewed By :Yogesh Patel 06/08/2023

Supervised By :mohammad ahmed 06/08/2023



#31

Naphthalene

Concen: 3.620 ng

RT: 8.139 min Scan# 1029

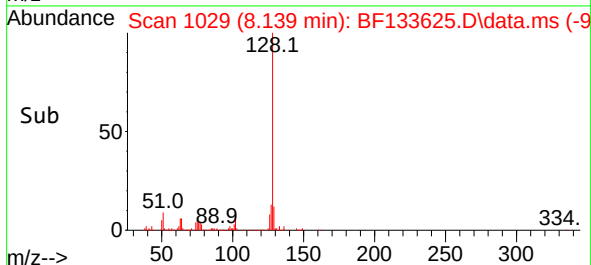
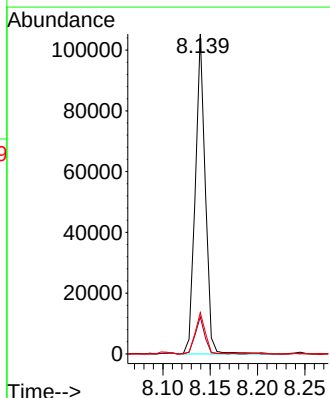
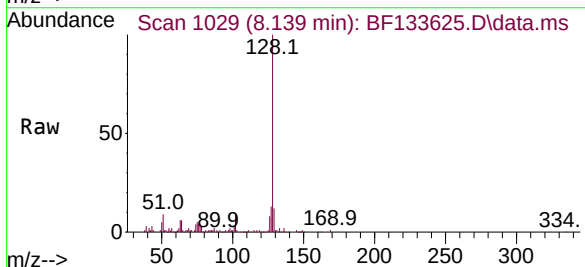
Delta R.T. -0.006 min

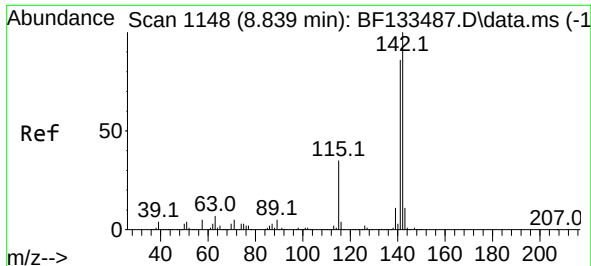
Lab File: BF133625.D

Acq: 07 Jun 2023 15:18

Tgt Ion:128 Resp: 77510

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 128 | 100   |       |       |
| 129 | 11.6  | 9.2   | 13.8  |
| 127 | 13.0  | 10.9  | 16.3  |





#37

2-Methylnaphthalene

Concen: 3.905 ng

RT: 8.833 min Scan# 1148

Delta R.T. 0.000 min

Lab File: BF133625.D

Acq: 07 Jun 2023 15:18

Instrument :

BNA\_F

ClientSampleId :

362

Tgt Ion:142 Resp: 5709

Ion Ratio Lower Upper

142 100

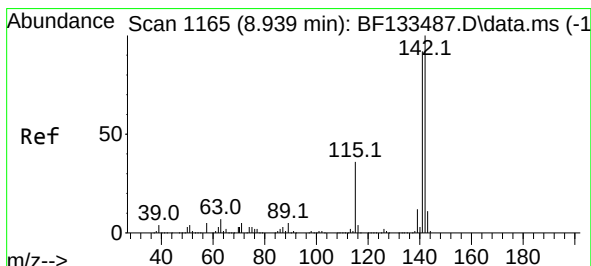
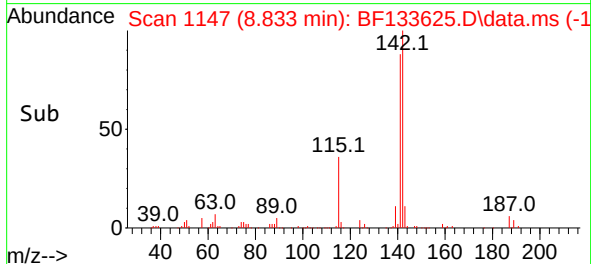
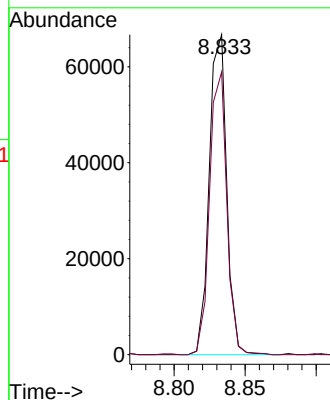
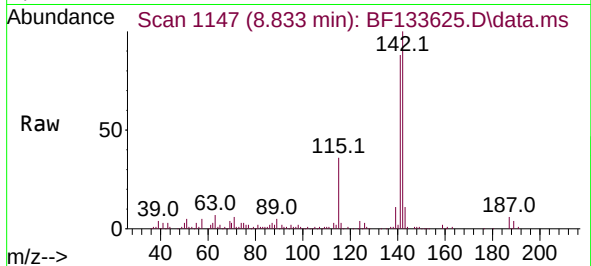
141 88.3 69.2 103.8

Manual Integrations

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Reviewed By :Yogesh Patel 06/08/2023

Supervised By :mohammad ahmed 06/08/2023



#38

1-Methylnaphthalene

Concen: 2.693 ng

RT: 8.928 min Scan# 1163

Delta R.T. -0.006 min

Lab File: BF133625.D

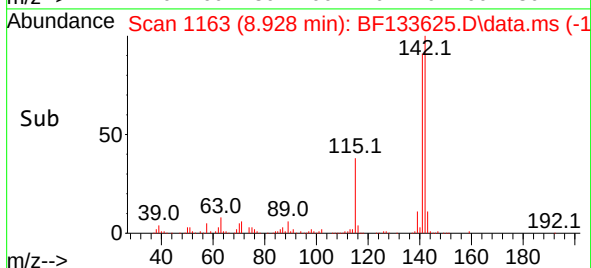
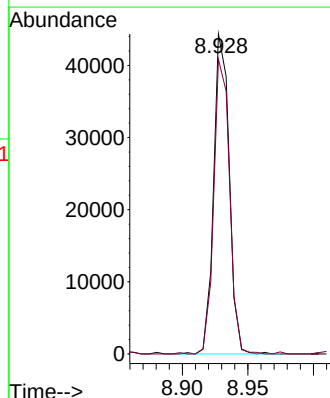
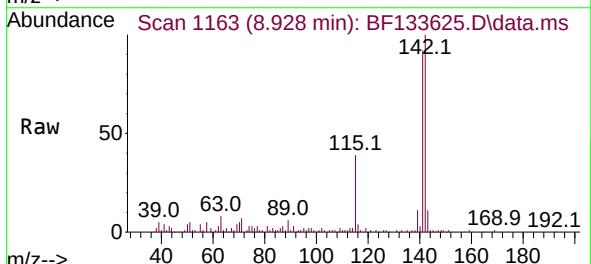
Acq: 07 Jun 2023 15:18

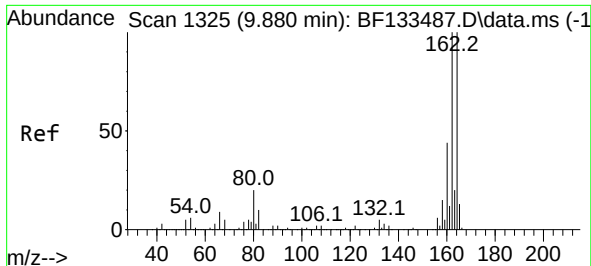
Tgt Ion:142 Resp: 36707

Ion Ratio Lower Upper

142 100

141 92.0 73.6 110.4





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.875 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF133625.D

Acq: 07 Jun 2023 15:18

Instrument :

BNA\_F

ClientSampleId :

362

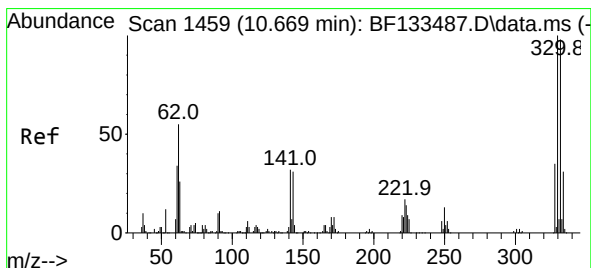
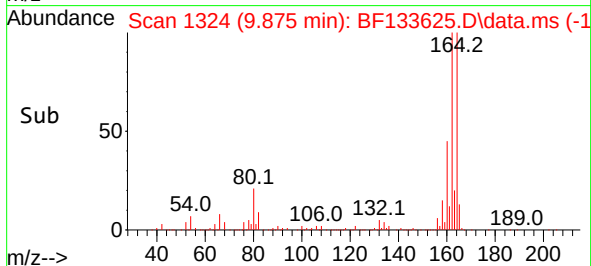
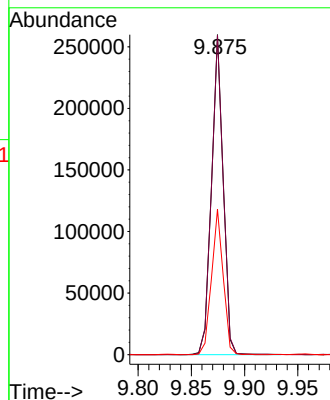
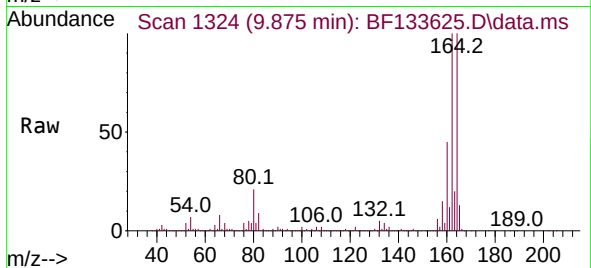
|             |                 |
|-------------|-----------------|
| Tgt Ion:164 | Resp: 198210    |
| Ion Ratio   | Lower Upper     |
| 164         | 100             |
| 162         | 99.8 79.7 119.5 |
| 160         | 45.5 35.4 53.0  |

Manual Integrations

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Reviewed By :Yogesh Patel 06/08/2023

Supervised By :mohammad ahmed 06/08/2023



#42

2,4,6-Tribromophenol

Concen: 93.156 ng

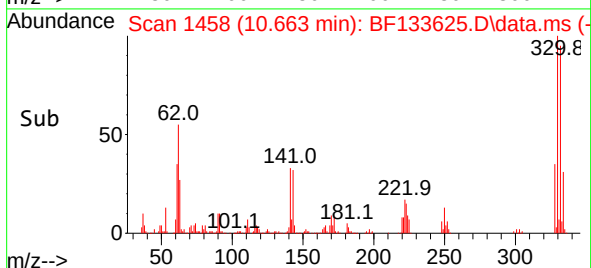
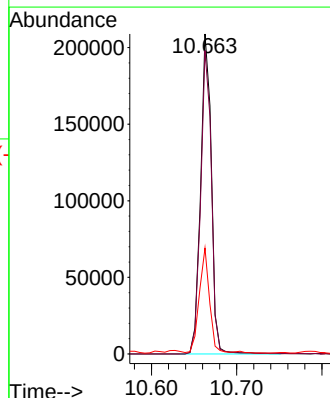
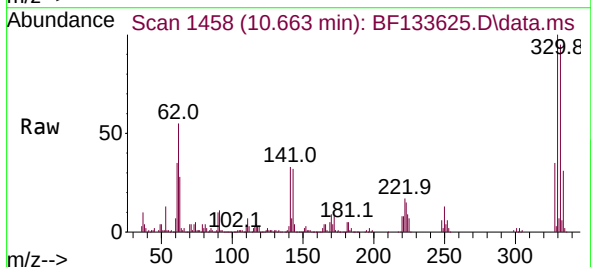
RT: 10.663 min Scan# 1458

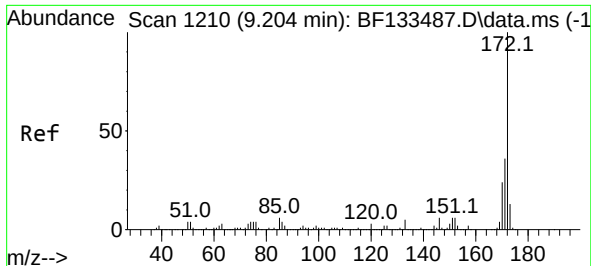
Delta R.T. -0.006 min

Lab File: BF133625.D

Acq: 07 Jun 2023 15:18

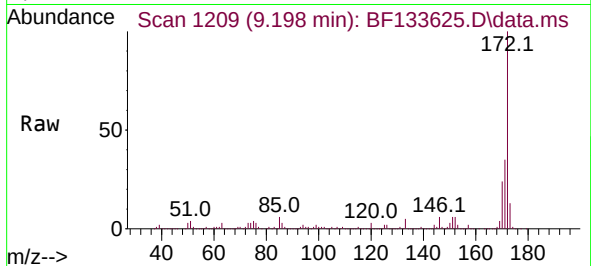
|             |                 |
|-------------|-----------------|
| Tgt Ion:330 | Resp: 184063    |
| Ion Ratio   | Lower Upper     |
| 330         | 100             |
| 332         | 94.7 77.8 116.6 |
| 141         | 30.6 26.6 40.0  |





#45  
2-Fluorobiphenyl  
Concen: 71.126 ng  
RT: 9.198 min Scan# 1209  
Delta R.T. 0.000 min  
Lab File: BF133625.D  
Acq: 07 Jun 2023 15:18

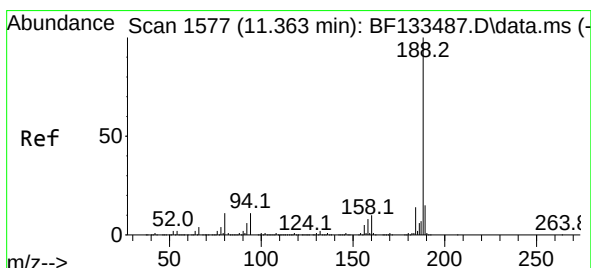
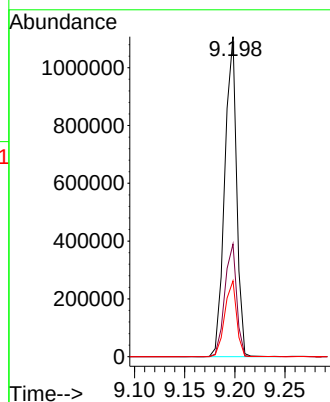
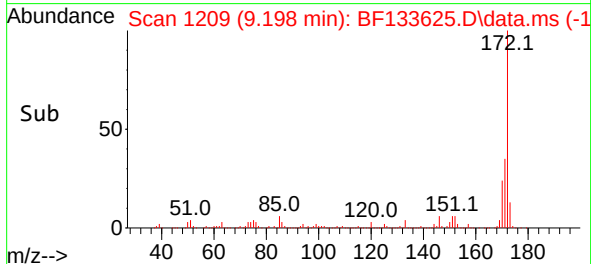
Instrument :  
BNA\_F  
ClientSampleId :  
362



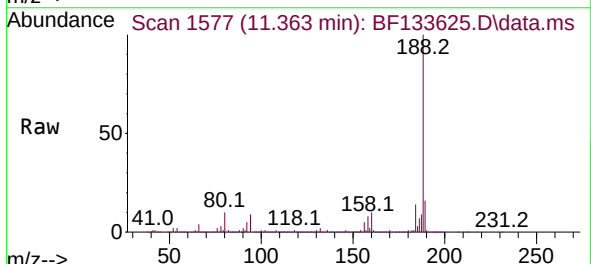
Tgt Ion:172 Resp: 913439  
Ion Ratio Lower Upper  
172 100  
171 35.2 28.4 42.6  
170 23.7 19.3 28.9

Manual Integrations  
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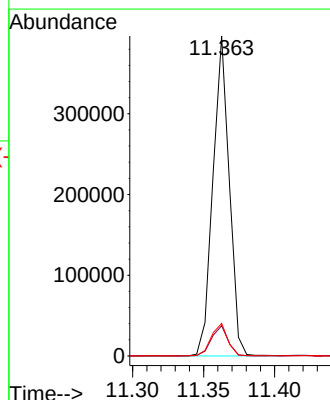
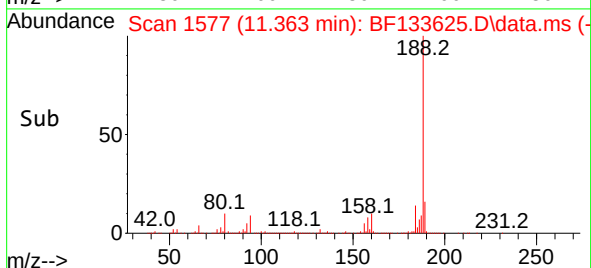
Reviewed By :Yogesh Patel 06/08/2023  
Supervised By :mohammad ahmed 06/08/2023



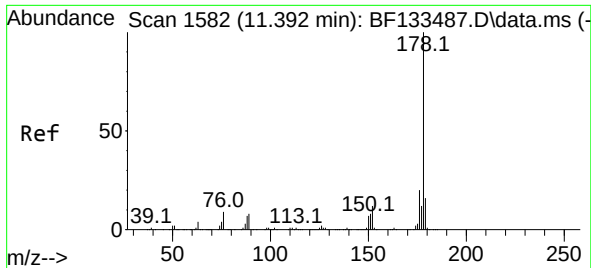
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.363 min Scan# 1577  
Delta R.T. -0.006 min  
Lab File: BF133625.D  
Acq: 07 Jun 2023 15:18



Tgt Ion:188 Resp: 317690  
Ion Ratio Lower Upper  
188 100  
94 9.4 8.6 12.8  
80 10.2 9.2 13.8

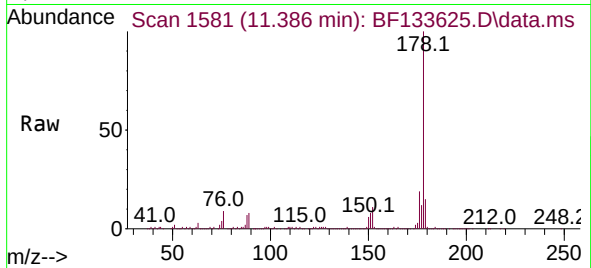






#71  
Phenanthrene  
Concen: 8.655 ng  
RT: 11.386 min Scan# 1582  
Delta R.T. -0.006 min  
Lab File: BF133625.D  
Acq: 07 Jun 2023 15:18

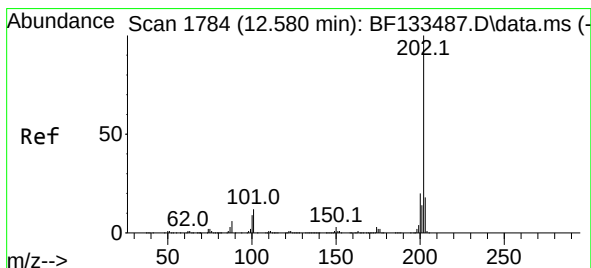
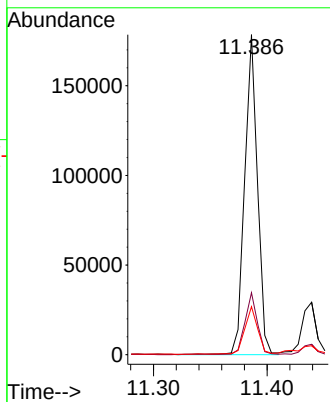
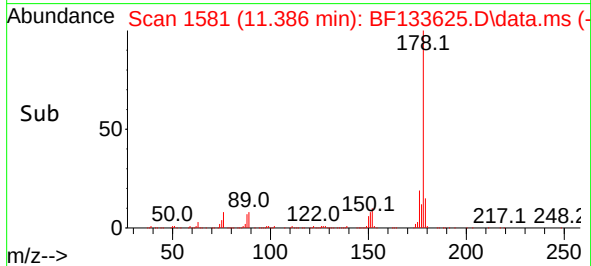
Instrument :  
BNA\_F  
ClientSampleId :  
362



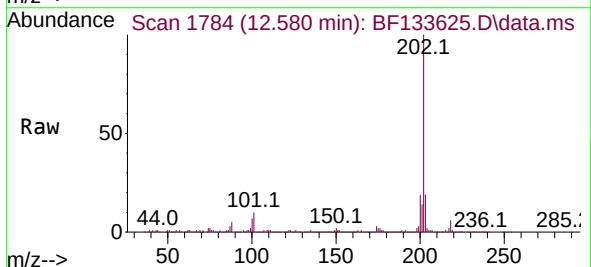
Tgt Ion:178 Resp: 139259  
Ion Ratio Lower Upper  
178 100  
176 19.3 15.6 23.4  
179 15.0 12.4 18.6

Manual Integrations  
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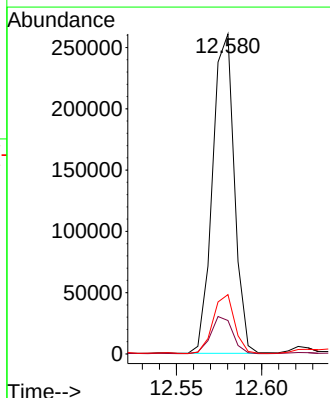
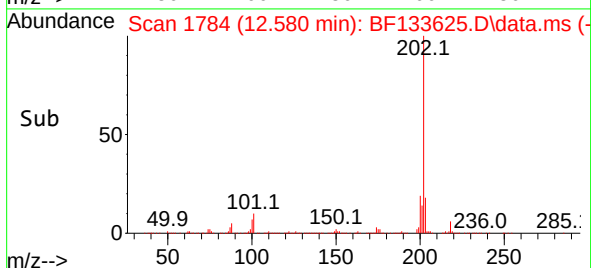
Reviewed By :Yogesh Patel 06/08/2023  
Supervised By :mohammad ahmed 06/08/2023

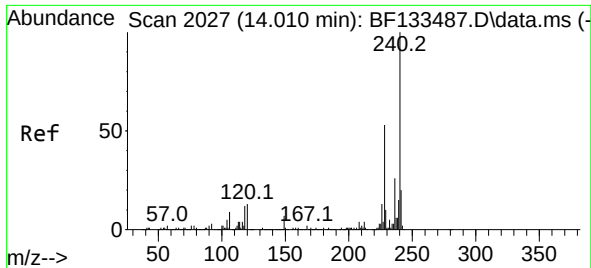


#75  
Fluoranthene  
Concen: 13.051 ng  
RT: 12.580 min Scan# 1784  
Delta R.T. -0.006 min  
Lab File: BF133625.D  
Acq: 07 Jun 2023 15:18



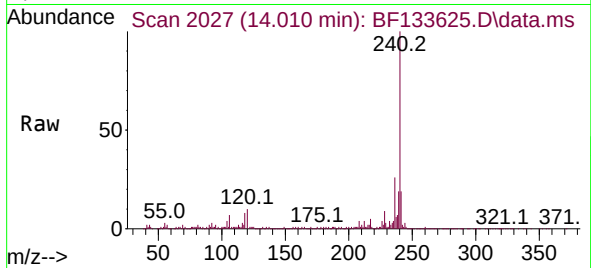
Tgt Ion:202 Resp: 231959  
Ion Ratio Lower Upper  
202 100  
101 10.5 0.0 32.2  
203 18.5 0.0 37.8





#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.010 min Scan# 2027  
Delta R.T. -0.006 min  
Lab File: BF133625.D  
Acq: 07 Jun 2023 15:18

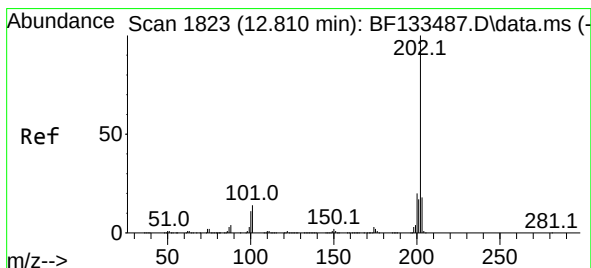
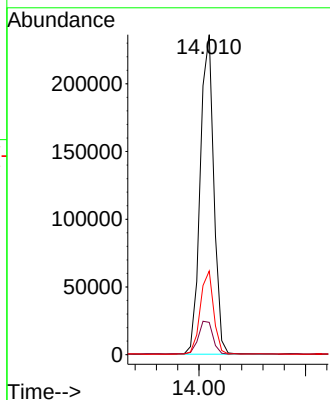
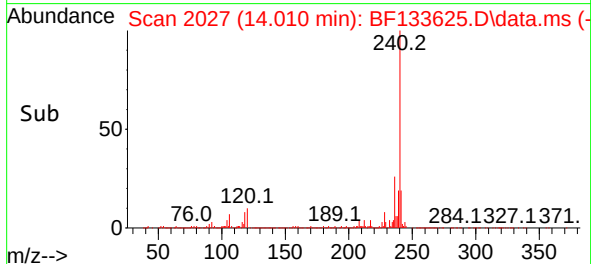
Instrument :  
BNA\_F  
ClientSampleId :  
362



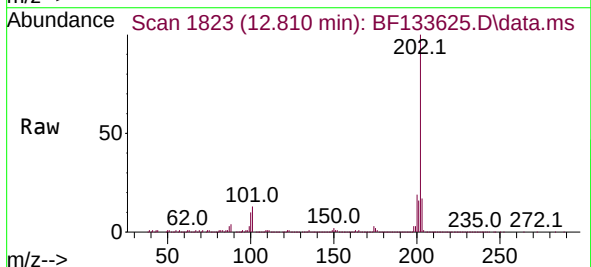
Tgt Ion:240 Resp: 209479  
Ion Ratio Lower Upper  
240 100  
120 10.1 10.3 15.5  
236 26.1 20.5 30.7

Manual Integrations  
APPROVED

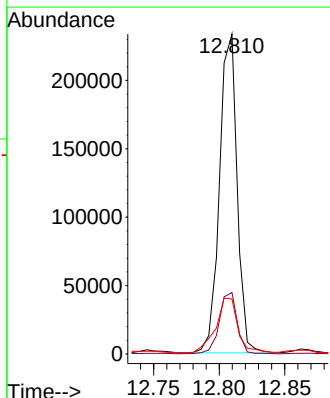
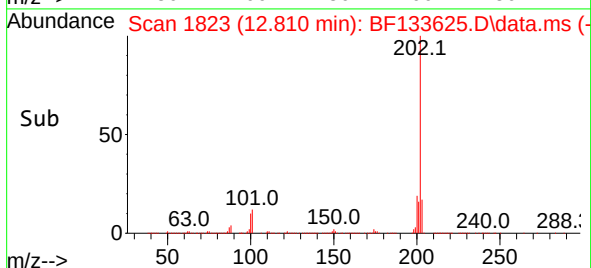
Reviewed By :Yogesh Patel 06/08/2023  
Supervised By :mohammad ahmed 06/08/2023

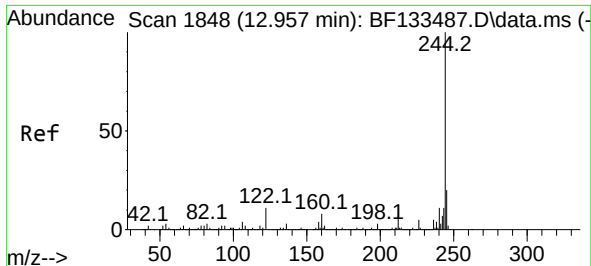


#78  
Pyrene  
Concen: 12.207 ng  
RT: 12.810 min Scan# 1823  
Delta R.T. -0.006 min  
Lab File: BF133625.D  
Acq: 07 Jun 2023 15:18



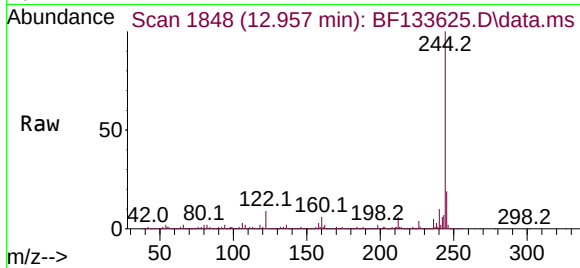
Tgt Ion:202 Resp: 217592  
Ion Ratio Lower Upper  
202 100  
200 19.2 16.3 24.5  
203 17.2 14.3 21.5





#79  
 Terphenyl-d14  
 Concen: 66.337 ng  
 RT: 12.957 min Scan# 1848  
 Delta R.T. 0.000 min  
 Lab File: BF133625.D  
 Acq: 07 Jun 2023 15:18

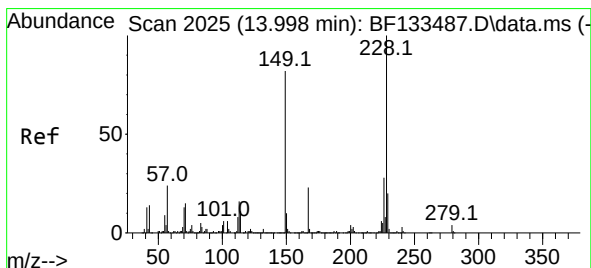
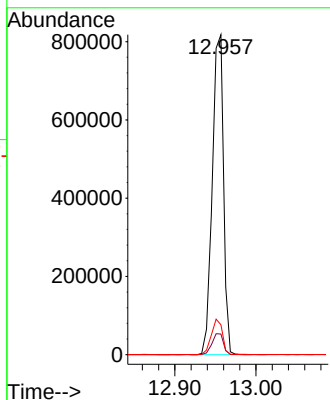
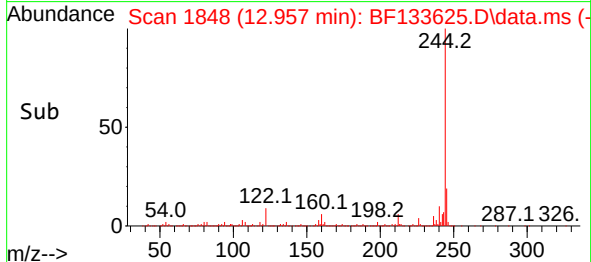
Instrument :  
 BNA\_F  
 ClientSampleId :  
 362



Tgt Ion:244 Resp: 781570  
 Ion Ratio Lower Upper  
 244 100  
 212 6.4 5.8 8.6  
 122 9.3 8.5 12.7

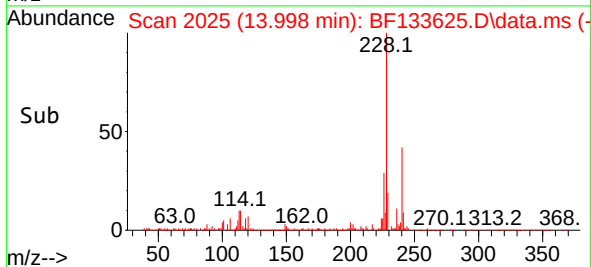
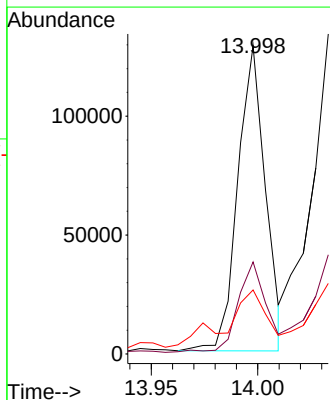
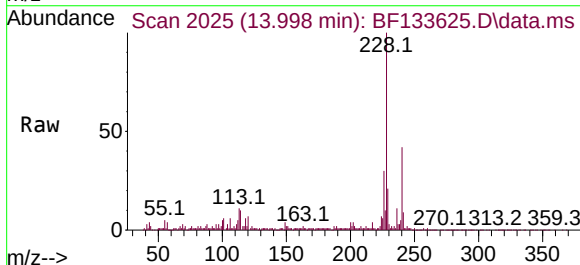
Manual Integrations  
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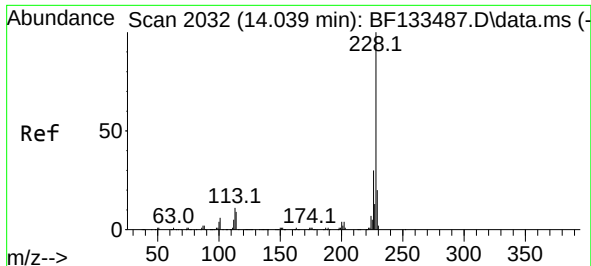
Reviewed By :Yogesh Patel 06/08/2023  
 Supervised By :mohammad ahmed 06/08/2023



#81  
 Benzo(a)anthracene  
 Concen: 8.323 ng  
 RT: 13.998 min Scan# 2025  
 Delta R.T. -0.006 min  
 Lab File: BF133625.D  
 Acq: 07 Jun 2023 15:18

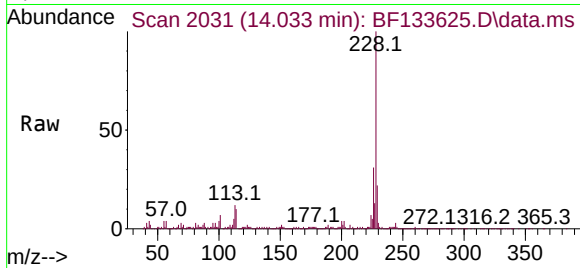
Tgt Ion:228 Resp: 116142  
 Ion Ratio Lower Upper  
 228 100  
 226 29.9 22.3 33.5  
 229 20.8 16.1 24.1





#83  
Chrysene  
Concen: 9.450 ng  
RT: 14.033 min Scan# 2032  
Delta R.T. -0.012 min  
Lab File: BF133625.D  
Acq: 07 Jun 2023 15:18

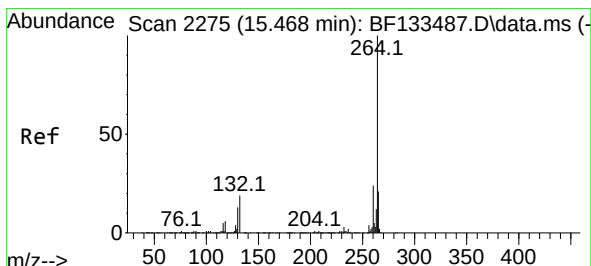
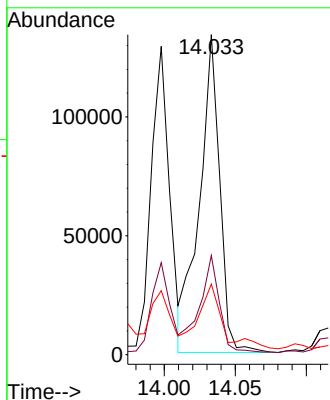
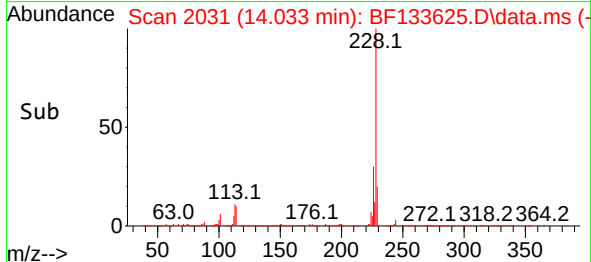
Instrument :  
BNA\_F  
ClientSampleId :  
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Tgt Ion:228 Resp: 13312  
Ion Ratio Lower Upper  
228 100  
226 31.0 24.1 36.1  
229 22.0 15.8 23.8

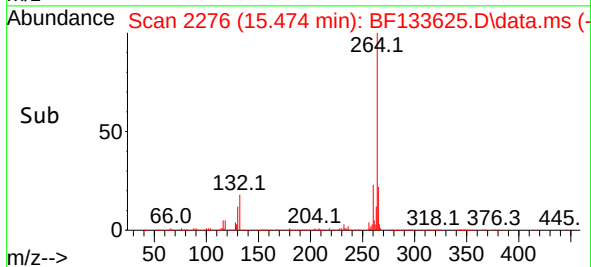
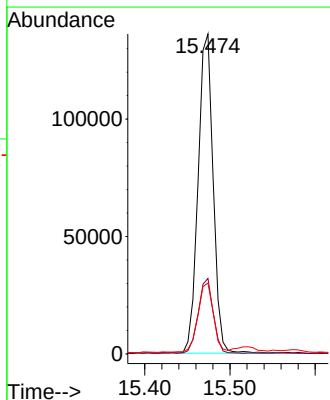
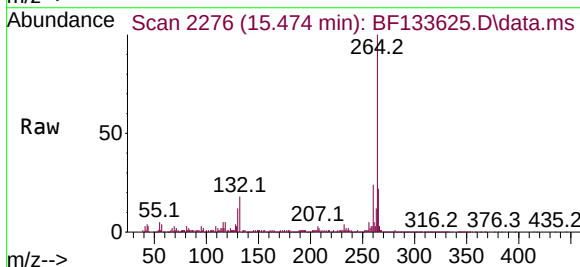
Manual Integrations  
APPROVED

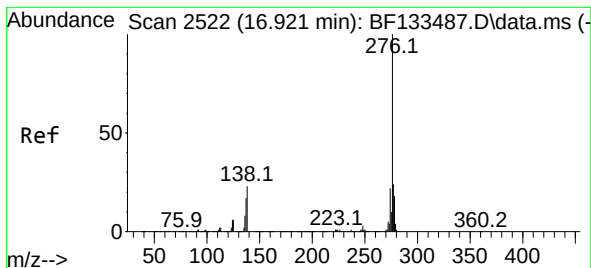
Reviewed By :Yogesh Patel 06/08/2023  
Supervised By :mohammad ahmed 06/08/2023



#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.474 min Scan# 2276  
Delta R.T. -0.006 min  
Lab File: BF133625.D  
Acq: 07 Jun 2023 15:18

Tgt Ion:264 Resp: 166882  
Ion Ratio Lower Upper  
264 100  
260 23.6 19.0 28.4  
265 22.2 16.8 25.2





#87

Indeno(1,2,3-cd)pyrene

Concen: 5.350 ng

RT: 16.927 min Scan# 21

Delta R.T. -0.018 min

Lab File: BF133625.D

Acq: 07 Jun 2023 15:18

Instrument :

BNA\_F

ClientSampleId :

362

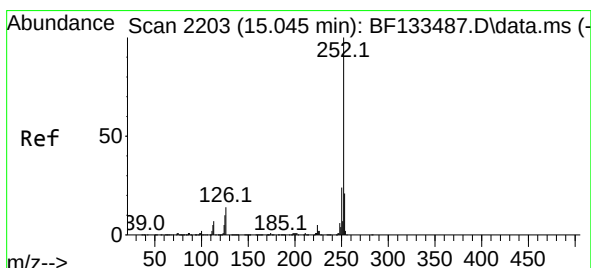
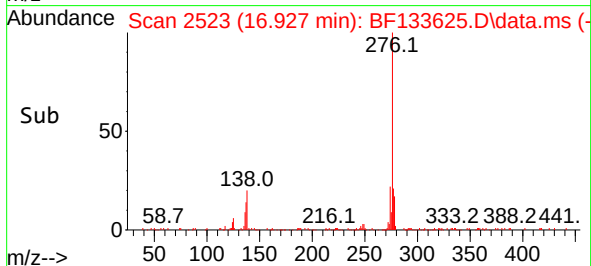
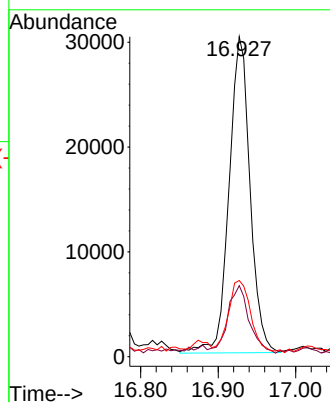
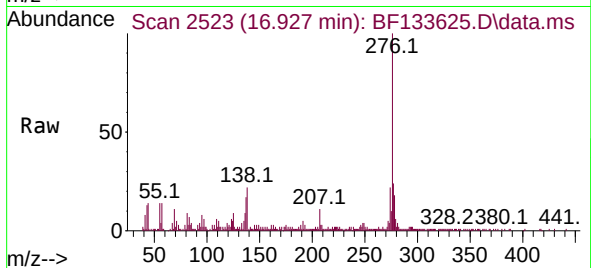
Tgt Ion:276 Resp: 5686  
 Ion Ratio Lower Upper  
 276 100  
 138 22.0 21.4 32.2  
 277 23.0 20.0 30.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/08/2023

Supervised By :mohammad ahmed 06/08/2023



#88

Benzo(b)fluoranthene

Concen: 12.380 ng m

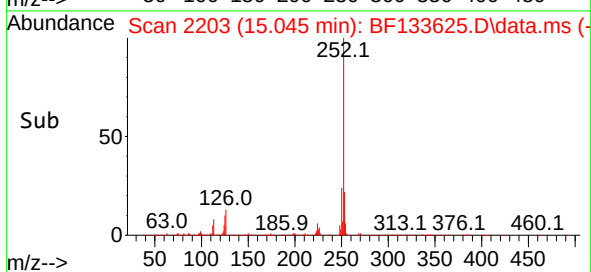
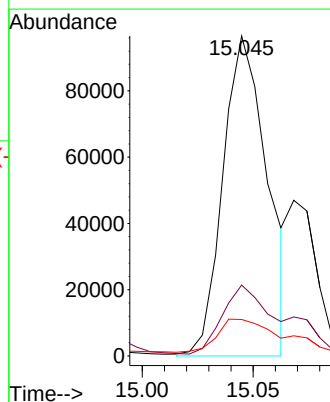
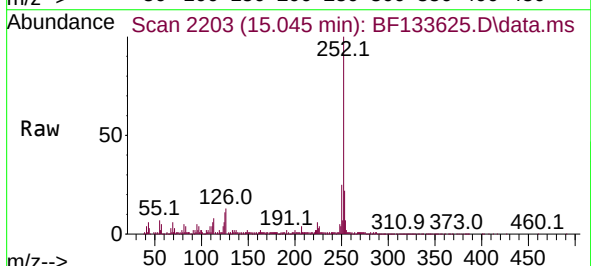
RT: 15.045 min Scan# 2203

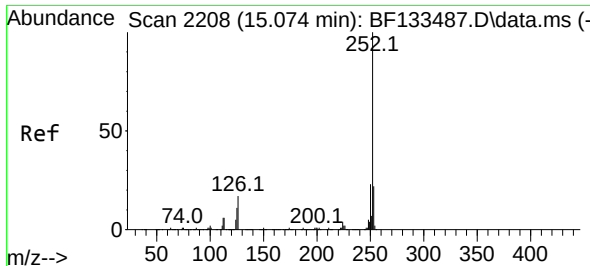
Delta R.T. -0.006 min

Lab File: BF133625.D

Acq: 07 Jun 2023 15:18

Tgt Ion:252 Resp: 134531  
 Ion Ratio Lower Upper  
 252 100  
 253 22.1 17.2 25.8  
 125 11.4 8.1 12.1





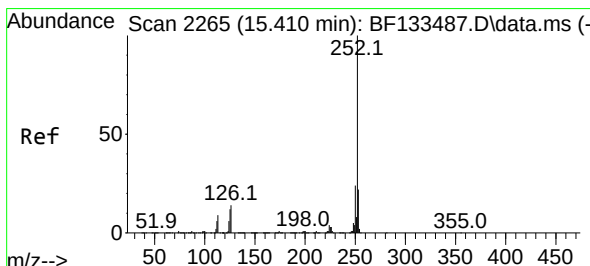
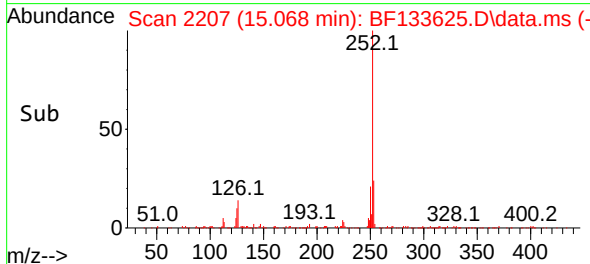
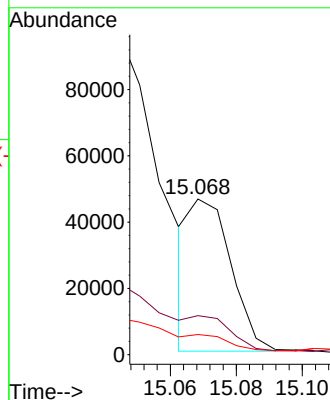
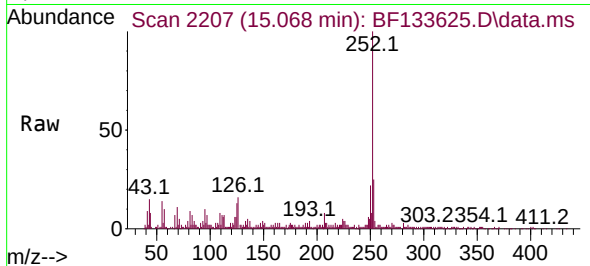
#89  
Benzo(k)fluoranthene  
Concen: 3.748 ng m  
RT: 15.068 min Scan# 2208  
Delta R.T. -0.018 min  
Lab File: BF133625.D  
Acq: 07 Jun 2023 15:18

Instrument :  
BNA\_F  
ClientSampleId :  
362

Tgt Ion:252 Resp: 39715  
Ion Ratio Lower Upper  
252 100  
253 25.1 17.4 26.2  
125 13.0 8.3 12.5

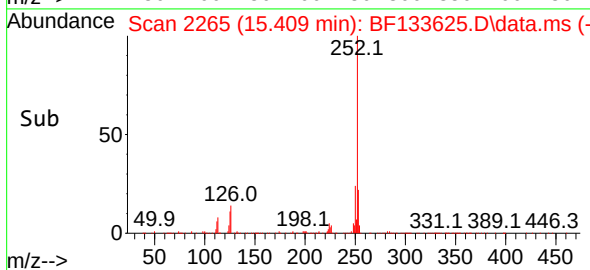
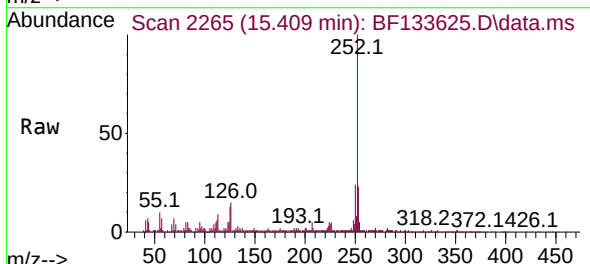
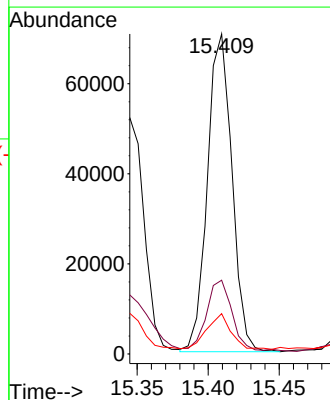
Manual Integrations  
APPROVED

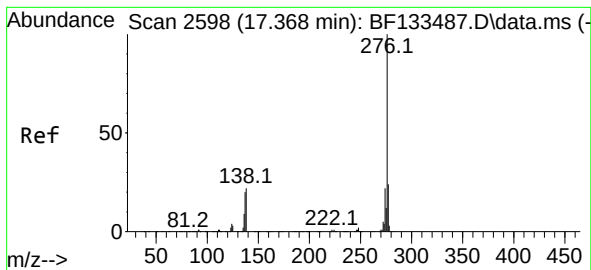
Reviewed By :Yogesh Patel 06/08/2023  
Supervised By :mohammad ahmed 06/08/2023



#90  
Benzo(a)pyrene  
Concen: 8.583 ng  
RT: 15.409 min Scan# 2265  
Delta R.T. -0.006 min  
Lab File: BF133625.D  
Acq: 07 Jun 2023 15:18

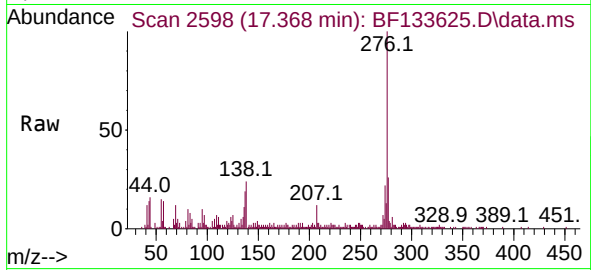
Tgt Ion:252 Resp: 84873  
Ion Ratio Lower Upper  
252 100  
253 23.1 17.4 26.0  
125 12.6 9.4 14.0





#92  
 Benzo(g,h,i)perylene  
 Concen: 6.016 ng  
 RT: 17.368 min Scan# 21  
 Delta R.T. -0.024 min  
 Lab File: BF133625.D  
 Acq: 07 Jun 2023 15:18

Instrument :  
 BNA\_F  
 ClientSampleId :  
 362



Tgt Ion:276 Resp: 5228  
 Ion Ratio Lower Upper  
 276 100  
 277 26.3 18.8 28.2  
 138 24.4 17.8 26.6

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 06/08/2023  
 Supervised By :mohammad ahmed 06/08/2023

