

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF011024\  
 Data File : BF137028.D  
 Acq On : 10 Jan 2024 19:31  
 Operator : CG\JU  
 Sample : P1067-04  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SP-B-COMP(0-8)

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 01/11/2024  
 Supervised By :mohammad ahmed 01/12/2024

Quant Time: Jan 11 00:02:38 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF122023.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Dec 21 01:54:25 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 6.781  | 152  | 44422    | 20.000 | ng    | -0.01    |
| 21) Naphthalene-d8            | 8.063  | 136  | 141049   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10          | 9.816  | 164  | 63308    | 20.000 | ng    | -0.01    |
| 64) Phenanthrene-d10          | 11.316 | 188  | 122086   | 20.000 | ng    | # 0.00   |
| 76) Chrysene-d12              | 14.015 | 240  | 79189    | 20.000 | ng    | # 0.05   |
| 86) Perylene-d12              | 15.527 | 264  | 81074    | 20.000 | ng    | 0.08     |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 5) 2-Fluorophenol             | 5.428  | 112  | 205796   | 72.284 | ng    | 0.00     |
| 7) Phenol-d6                  | 6.434  | 99   | 235338   | 63.793 | ng    | 0.00     |
| 23) Nitrobenzene-d5           | 7.345  | 82   | 136533   | 49.533 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol      | 10.616 | 330  | 56426    | 75.679 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl          | 9.139  | 172  | 256841   | 54.566 | ng    | -0.01    |
| 79) Terphenyl-d14             | 12.933 | 244  | 243757   | 43.016 | ng    | 0.02     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 31) Naphthalene               | 8.081  | 128  | 121456   | 15.674 | ng    | 99       |
| 37) 2-Methylnaphthalene       | 8.775  | 142  | 106911   | 21.438 | ng    | 98       |
| 38) 1-Methylnaphthalene       | 8.875  | 142  | 60116    | 12.287 | ng    | 95       |
| 58) Fluorene                  | 10.369 | 166  | 10087    | 2.192  | ng    | # 74     |
| 71) Phenanthrene              | 11.345 | 178  | 54436    | 8.690  | ng    | # 88     |
| 74) Di-n-butylphthalate       | 11.886 | 149  | 19825    | 2.716  | ng    | # 67     |
| 75) Fluoranthene              | 12.557 | 202  | 60887    | 9.087  | ng    | 81       |
| 78) Pyrene                    | 12.786 | 202  | 72668    | 9.348  | ng    | # 87     |
| 81) Benzo(a)anthracene        | 14.004 | 228  | 26084    | 4.744  | ng    | # 73     |
| 83) Chrysene                  | 14.045 | 228  | 25376    | 4.719  | ng    | # 64     |
| 84) Bis(2-ethylhexyl)phtha... | 13.980 | 149  | 68474    | 19.240 | ng    | # 86     |
| 87) Indeno(1,2,3-cd)pyrene    | 17.056 | 276  | 13302    | 2.272  | ng    | # 88     |
| 88) Benzo(b)fluoranthene      | 15.086 | 252  | 30858m   | 5.699  | ng    |          |
| 89) Benzo(k)fluoranthene      | 15.110 | 252  | 10831m   | 2.117  | ng    |          |
| 90) Benzo(a)pyrene            | 15.462 | 252  | 17905    | 3.917  | ng    | # 1      |
| 92) Benzo(g,h,i)perylene      | 17.515 | 276  | 14905    | 3.030  | ng    | # 63     |
| -----                         |        |      |          |        |       |          |

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

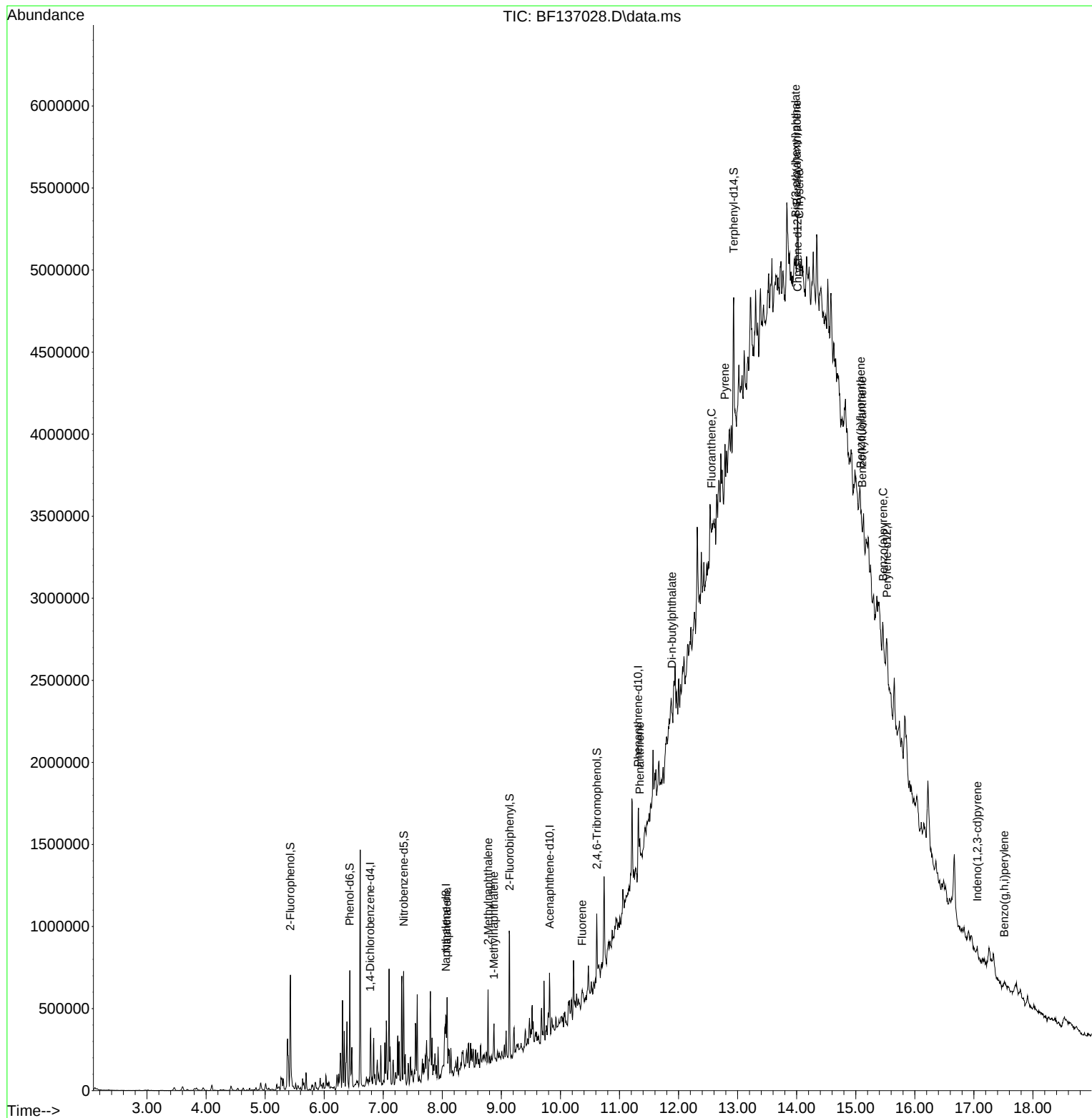
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF011024\  
Data File : BF137028.D  
Acq On : 10 Jan 2024 19:31  
Operator : CG\JU  
Sample : P1067-04  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SP-B-COMP(0-8)

Quant Time: Jan 11 00:02:38 2024  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF122023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Dec 21 01:54:25 2023  
Response via : Initial Calibration

Manual Integrations  
APPROVED

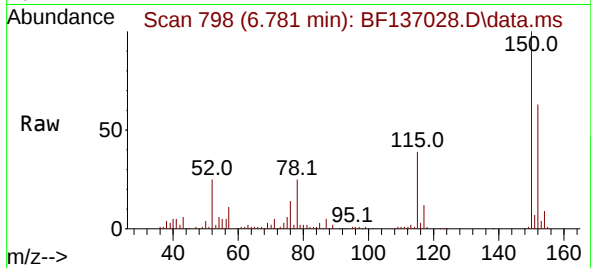
Reviewed By :Yogesh Patel 01/11/2024  
Supervised By :mohammad ahmed 01/12/2024





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.781 min Scan# 798  
Delta R.T. -0.011 min  
Lab File: BF137028.D  
Acq: 10 Jan 2024 19:31

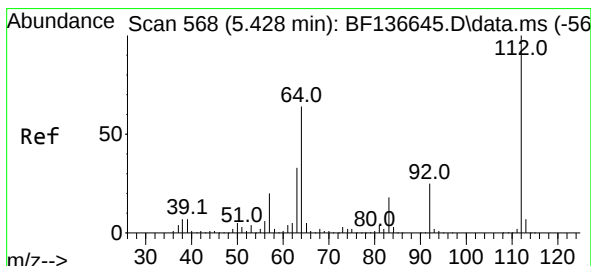
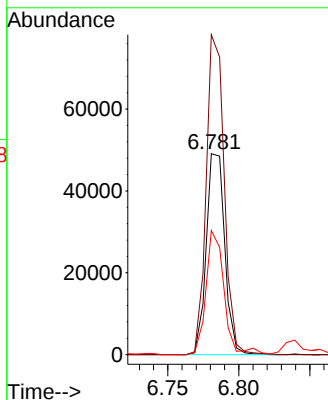
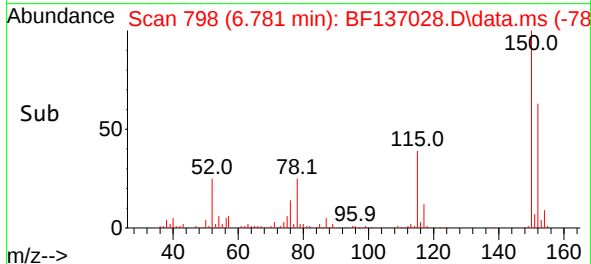
Instrument :  
BNA\_F  
ClientSampleId :  
SP-B-COMP(0-8)



Tgt Ion:152 Resp: 4442  
Ion Ratio Lower Upper  
152 100  
150 159.2 127.0 190.6  
115 61.8 49.0 73.4

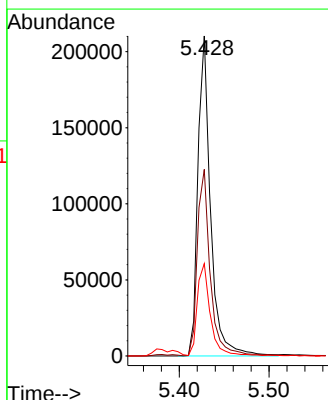
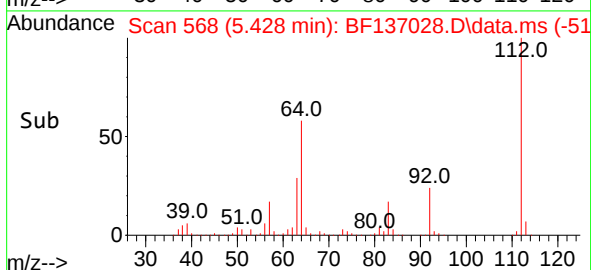
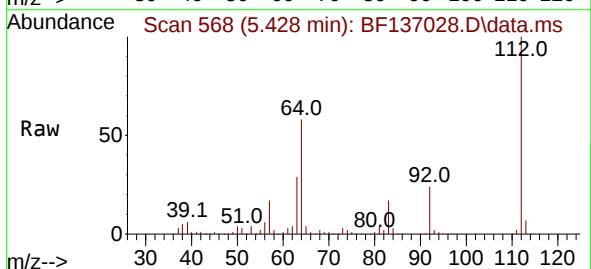
Manual Integrations  
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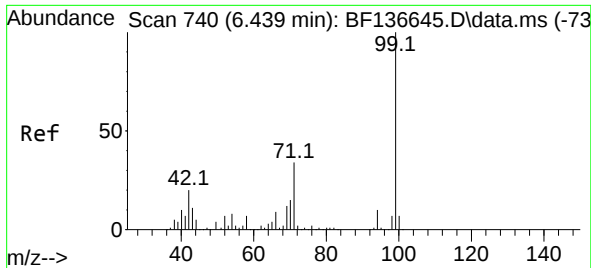
Reviewed By :Yogesh Patel 01/11/2024  
Supervised By :mohammad ahmed 01/12/2024



#5  
2-Fluorophenol  
Concen: 72.284 ng  
RT: 5.428 min Scan# 568  
Delta R.T. 0.000 min  
Lab File: BF137028.D  
Acq: 10 Jan 2024 19:31

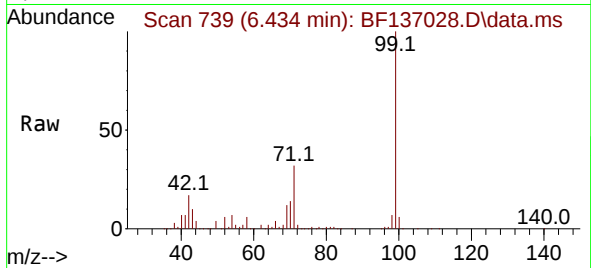
Tgt Ion:112 Resp: 205796  
Ion Ratio Lower Upper  
112 100  
64 58.3 51.1 76.7  
63 28.8 26.1 39.1





#7  
Phenol-d6  
Concen: 63.793 ng  
RT: 6.434 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: BF137028.D  
Acq: 10 Jan 2024 19:31

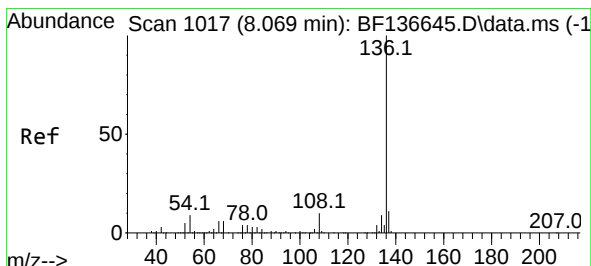
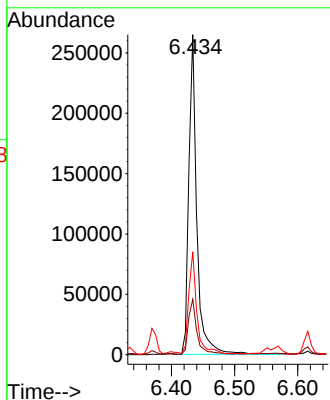
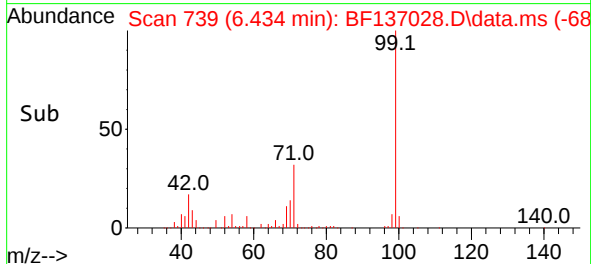
Instrument :  
BNA\_F  
ClientSampleId :  
SP-B-COMP(0-8)



Tgt Ion: 99 Resp: 235338  
Ion Ratio Lower Upper  
99 100  
42 17.3 16.1 24.1  
71 32.2 27.4 41.2

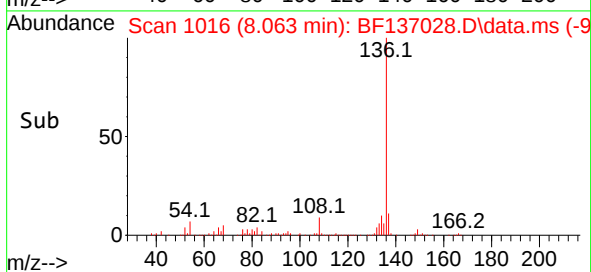
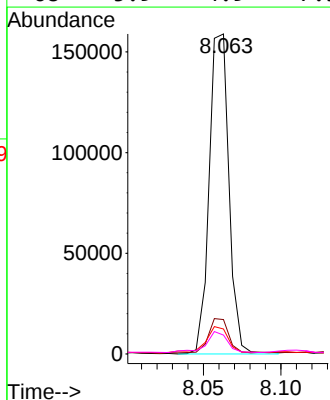
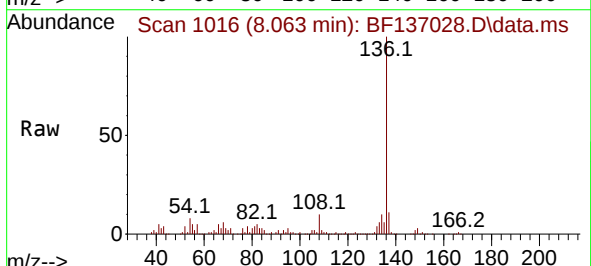
Manual Integrations  
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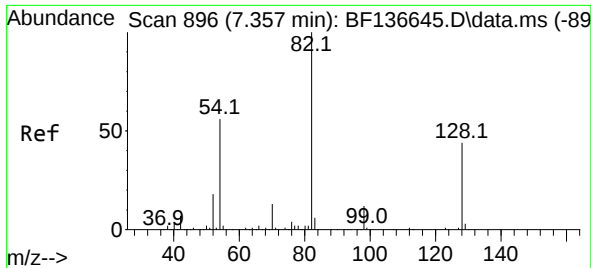
Reviewed By :Yogesh Patel 01/11/2024  
Supervised By :mohammad ahmed 01/12/2024



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.063 min Scan# 1016  
Delta R.T. -0.006 min  
Lab File: BF137028.D  
Acq: 10 Jan 2024 19:31

Tgt Ion:136 Resp: 141049  
Ion Ratio Lower Upper  
136 100  
137 10.8 9.0 13.4  
54 7.8 7.2 10.8  
68 5.9 4.9 7.3





#23  
Nitrobenzene-d5  
Concen: 49.533 ng  
RT: 7.345 min Scan# 896  
Delta R.T. -0.012 min  
Lab File: BF137028.D  
Acq: 10 Jan 2024 19:31

Instrument :

BNA\_F

ClientSampleId :

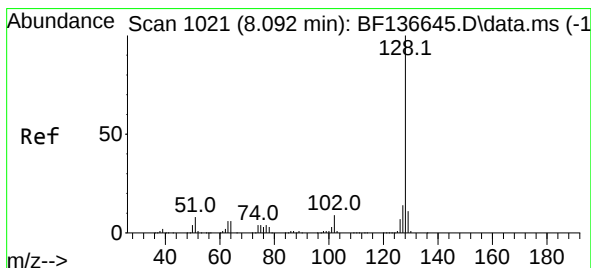
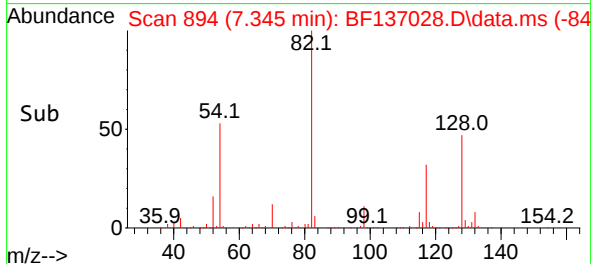
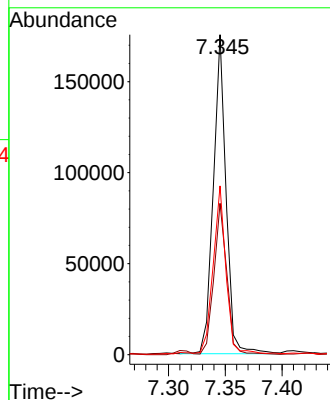
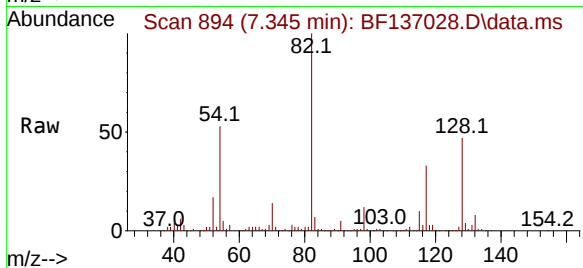
SP-B-COMP(0-8)

Tgt Ion: 82 Resp: 13653  
Ion Ratio Lower Upper  
82 100  
128 47.3 35.3 52.9  
54 52.8 44.5 66.7

Manual Integrations

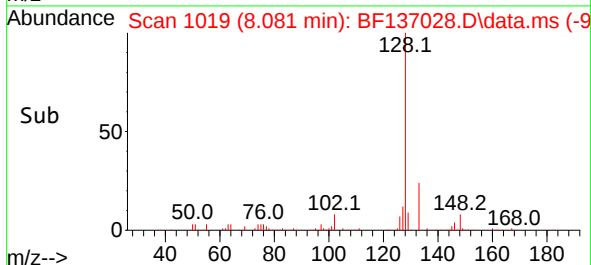
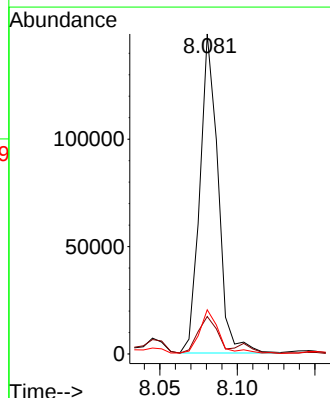
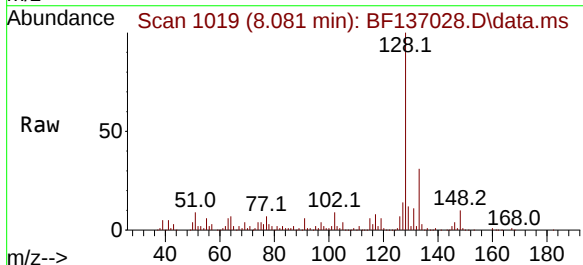
APPROVED

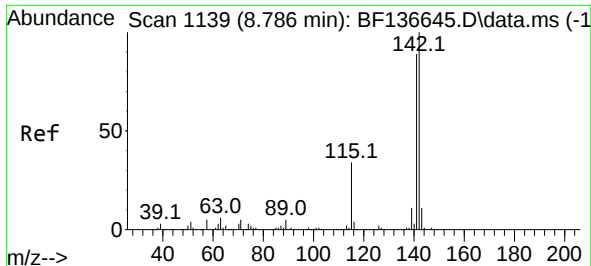
Reviewed By :Yogesh Patel 01/11/2024  
Supervised By :mohammad ahmed 01/12/2024



#31  
Naphthalene  
Concen: 15.674 ng  
RT: 8.081 min Scan# 1019  
Delta R.T. -0.012 min  
Lab File: BF137028.D  
Acq: 10 Jan 2024 19:31

Tgt Ion:128 Resp: 121456  
Ion Ratio Lower Upper  
128 100  
129 11.7 8.7 13.1  
127 13.8 10.8 16.2





#37  
2-Methylnaphthalene  
Concen: 21.438 ng  
RT: 8.775 min Scan# 1137  
Delta R.T. -0.012 min  
Lab File: BF137028.D  
Acq: 10 Jan 2024 19:31

Instrument :

BNA\_F

ClientSampleId :

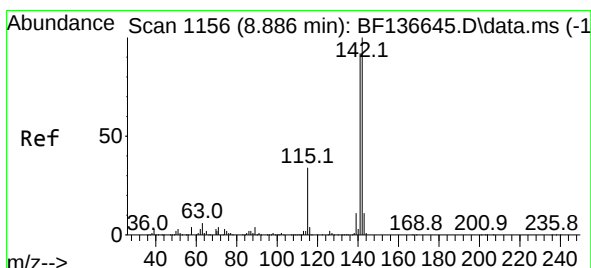
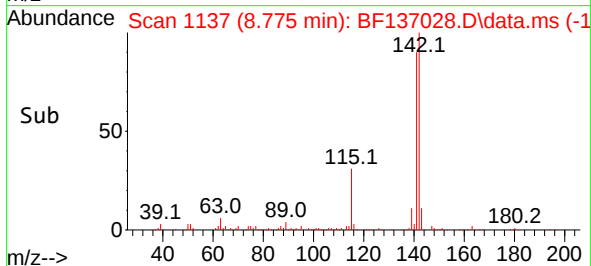
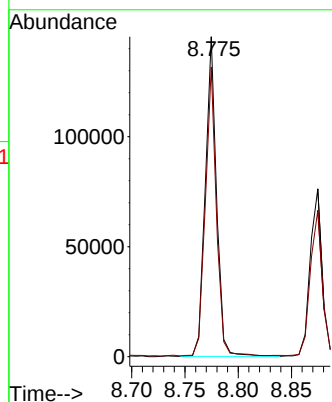
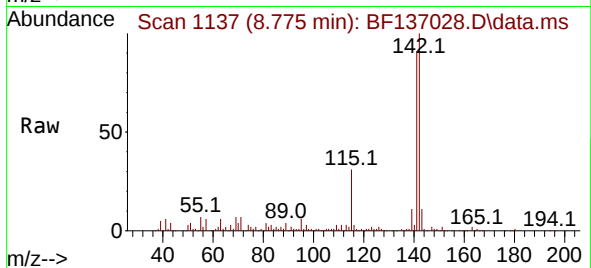
SP-B-COMP(0-8)

Tgt Ion:142 Resp: 10691  
Ion Ratio Lower Upper  
142 100  
141 90.5 71.1 106.7

Manual Integrations

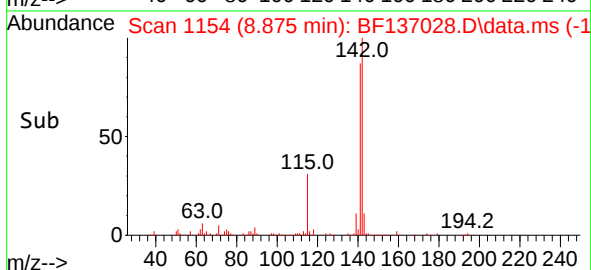
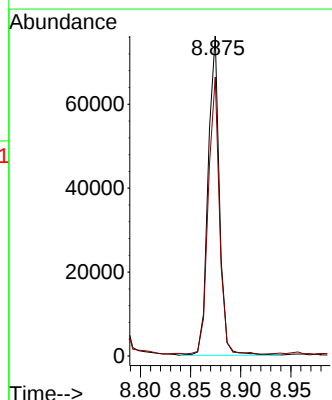
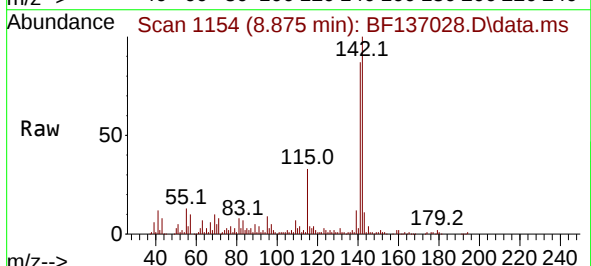
APPROVED

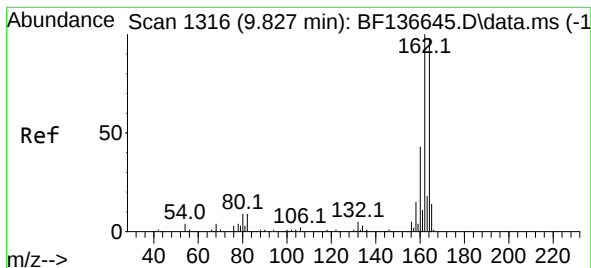
Reviewed By :Yogesh Patel 01/11/2024  
Supervised By :mohammad ahmed 01/12/2024



#38  
1-Methylnaphthalene  
Concen: 12.287 ng  
RT: 8.875 min Scan# 1154  
Delta R.T. -0.012 min  
Lab File: BF137028.D  
Acq: 10 Jan 2024 19:31

Tgt Ion:142 Resp: 60116  
Ion Ratio Lower Upper  
142 100  
141 87.1 73.6 110.4





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.816 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF137028.D

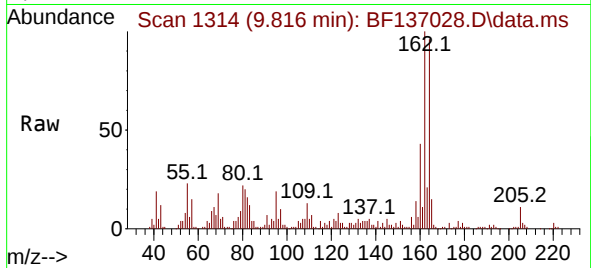
Acq: 10 Jan 2024 19:31

Instrument :

BNA\_F

ClientSampleId :

SP-B-COMP(0-8)



Tgt Ion:164 Resp: 63308

Ion Ratio Lower Upper

164 100

162 103.6 81.6 122.4

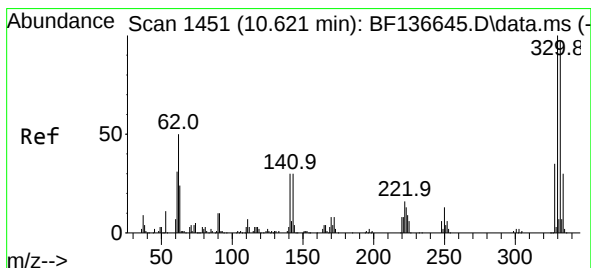
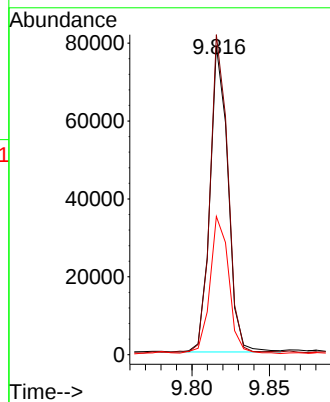
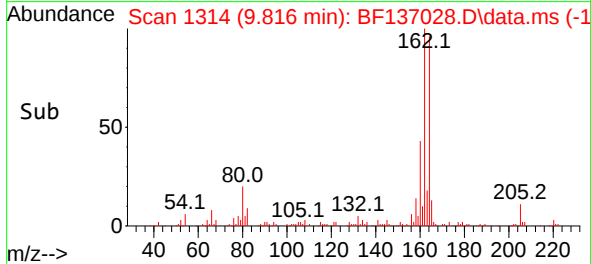
160 44.8 34.9 52.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/11/2024

Supervised By :mohammad ahmed 01/12/2024



#42

2,4,6-Tribromophenol

Concen: 75.679 ng

RT: 10.616 min Scan# 1450

Delta R.T. -0.006 min

Lab File: BF137028.D

Acq: 10 Jan 2024 19:31

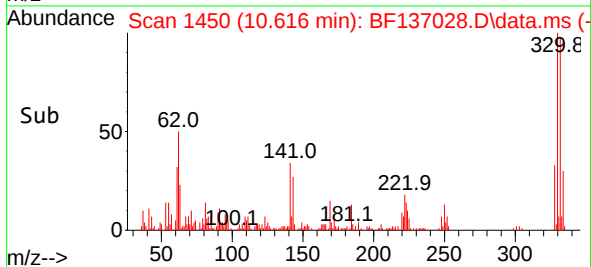
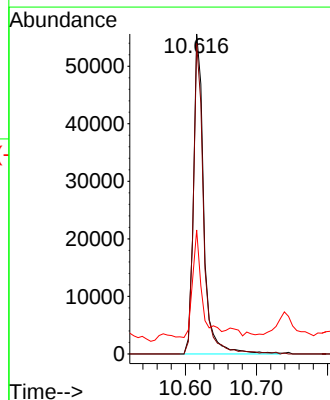
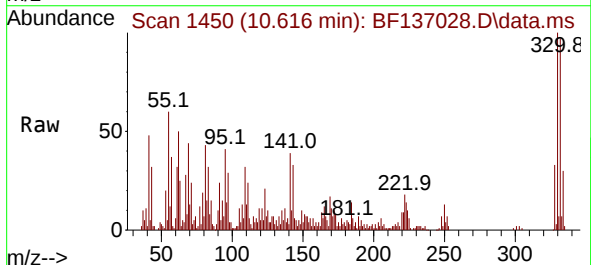
Tgt Ion:330 Resp: 56426

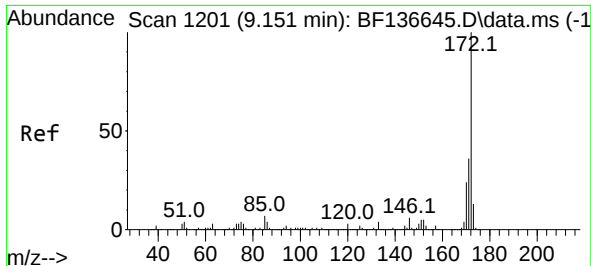
Ion Ratio Lower Upper

330 100

332 95.3 77.4 116.0

141 30.1 23.4 35.2





#45  
2-Fluorobiphenyl  
Concen: 54.566 ng  
RT: 9.139 min Scan# 1199  
Delta R.T. -0.012 min  
Lab File: BF137028.D  
Acq: 10 Jan 2024 19:31

Instrument :

BNA\_F

ClientSampleId :

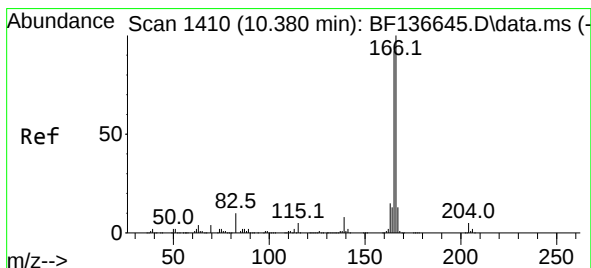
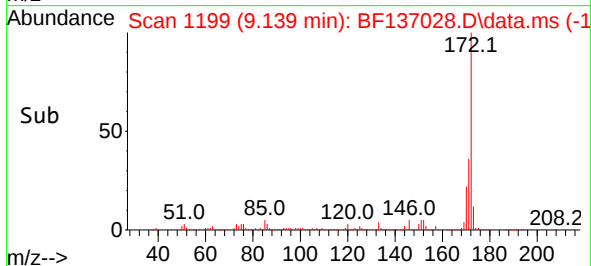
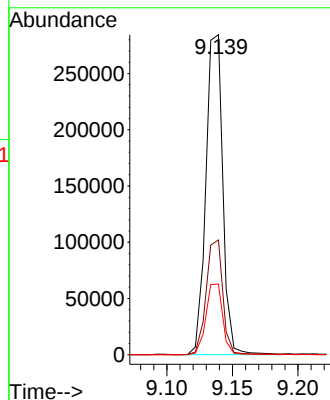
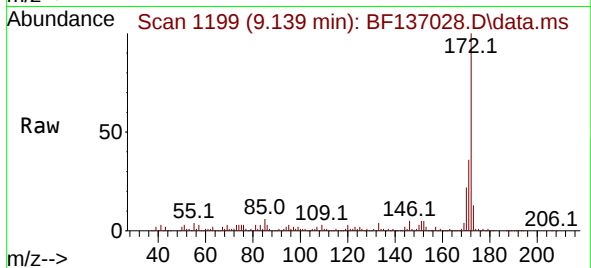
SP-B-COMP(0-8)

Tgt Ion:172 Resp: 25684  
Ion Ratio Lower Upper  
172 100  
171 35.8 29.0 43.6  
170 22.1 19.0 28.4

Manual Integrations

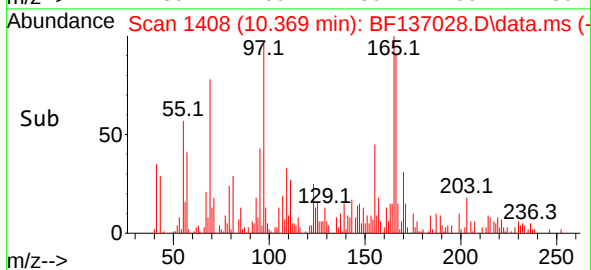
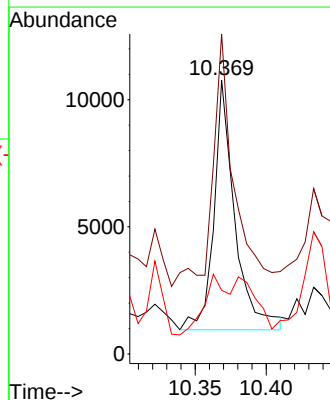
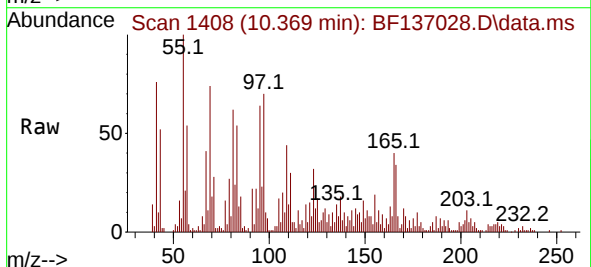
APPROVED

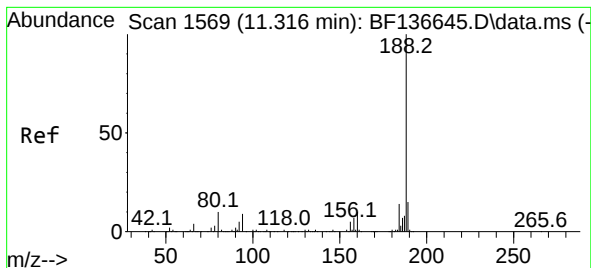
Reviewed By :Yogesh Patel 01/11/2024  
Supervised By :mohammad ahmed 01/12/2024



#58  
Fluorene  
Concen: 2.192 ng  
RT: 10.369 min Scan# 1408  
Delta R.T. -0.012 min  
Lab File: BF137028.D  
Acq: 10 Jan 2024 19:31

Tgt Ion:166 Resp: 10087  
Ion Ratio Lower Upper  
166 100  
165 116.8 73.7 110.5#  
167 23.2 10.4 15.6#





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.316 min Scan# 1569  
Delta R.T. 0.000 min  
Lab File: BF137028.D  
Acq: 10 Jan 2024 19:31

Instrument :

BNA\_F

ClientSampleId :

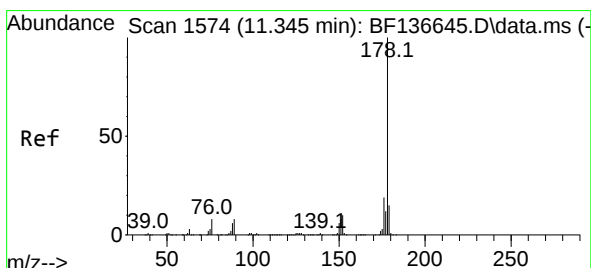
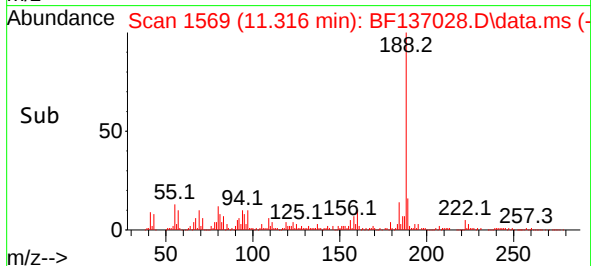
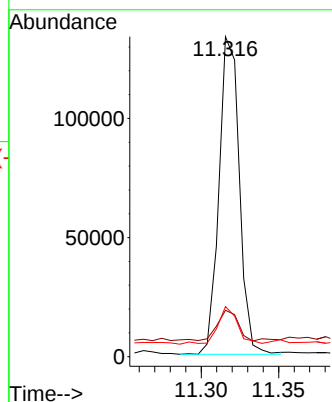
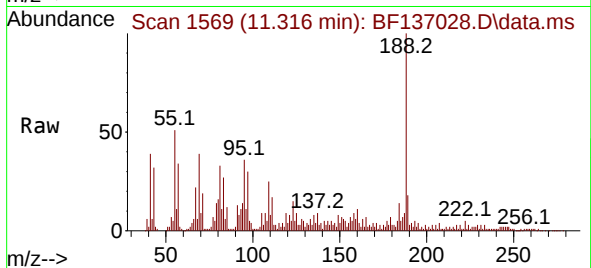
SP-B-COMP(0-8)

Tgt Ion:188 Resp: 122080  
Ion Ratio Lower Upper  
188 100  
94 14.5 7.5 11.3  
80 15.6 8.1 12.1

Manual Integrations

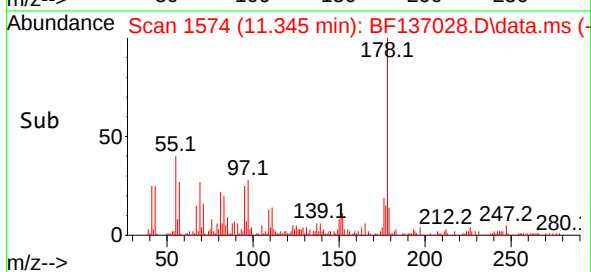
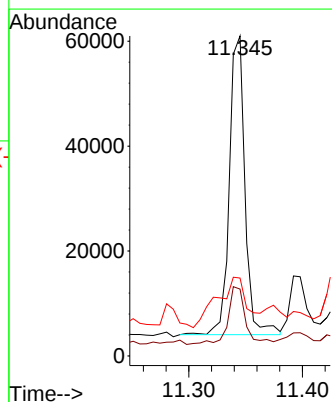
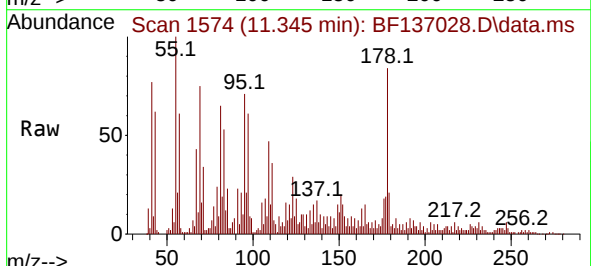
APPROVED

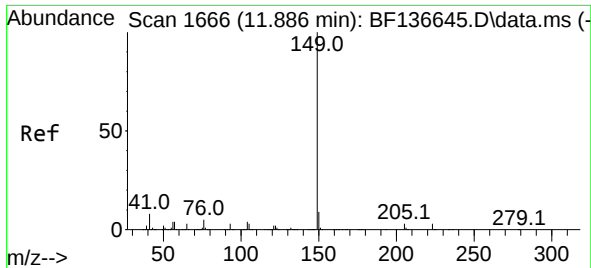
Reviewed By :Yogesh Patel 01/11/2024  
Supervised By :mohammad ahmed 01/12/2024



#71  
Phenanthrene  
Concen: 8.690 ng  
RT: 11.345 min Scan# 1574  
Delta R.T. 0.000 min  
Lab File: BF137028.D  
Acq: 10 Jan 2024 19:31

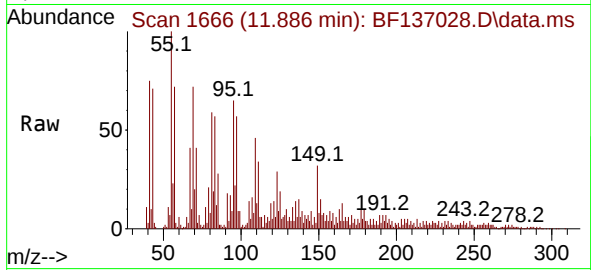
Tgt Ion:178 Resp: 54436  
Ion Ratio Lower Upper  
178 100  
176 20.9 15.3 22.9  
179 24.4 11.9 17.9





#74  
Di-n-butylphthalate  
Concen: 2.716 ng  
RT: 11.886 min Scan# 1666  
Delta R.T. 0.000 min  
Lab File: BF137028.D  
Acq: 10 Jan 2024 19:31

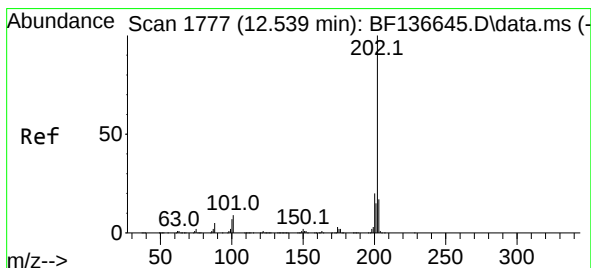
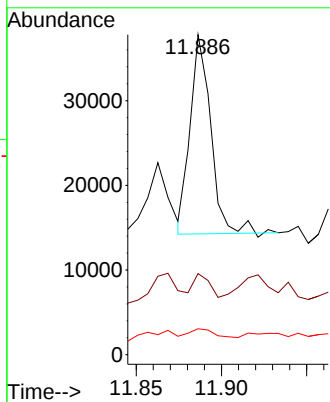
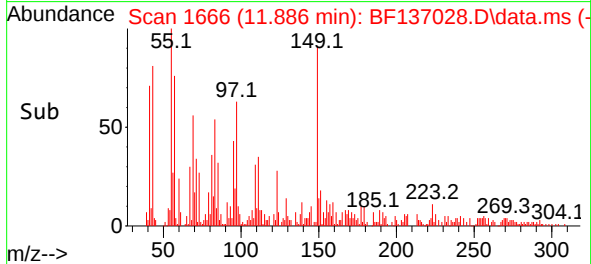
Instrument :  
BNA\_F  
ClientSampleId :  
SP-B-COMP(0-8)



Tgt Ion:149 Resp: 1982  
Ion Ratio Lower Upper  
149 100  
150 25.4 7.4 11.2  
104 8.1 3.6 5.4

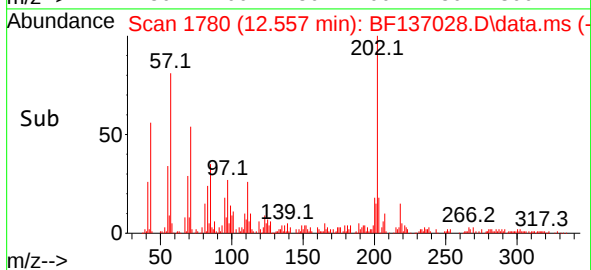
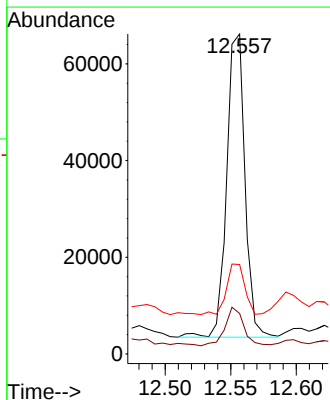
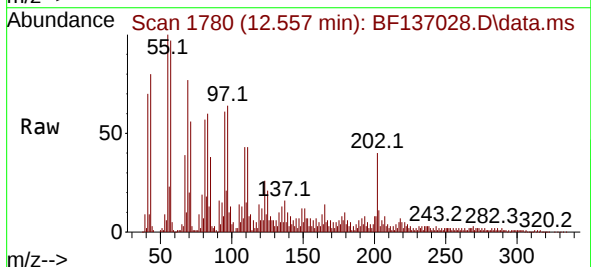
Manual Integrations  
APPROVED

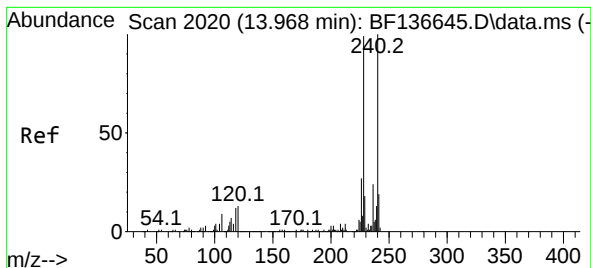
Reviewed By :Yogesh Patel 01/11/2024  
Supervised By :mohammad ahmed 01/12/2024



#75  
Fluoranthene  
Concen: 9.087 ng  
RT: 12.557 min Scan# 1780  
Delta R.T. 0.018 min  
Lab File: BF137028.D  
Acq: 10 Jan 2024 19:31

Tgt Ion:202 Resp: 60887  
Ion Ratio Lower Upper  
202 100  
101 12.7 0.0 29.3  
203 27.9 0.0 37.1





#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.015 min Scan# 2020

Delta R.T. 0.047 min

Lab File: BF137028.D

Acq: 10 Jan 2024 19:31

Instrument :

BNA\_F

ClientSampleId :

SP-B-COMP(0-8)

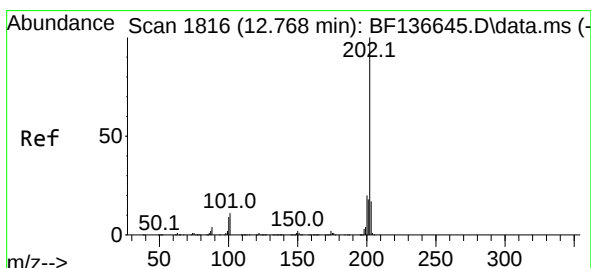
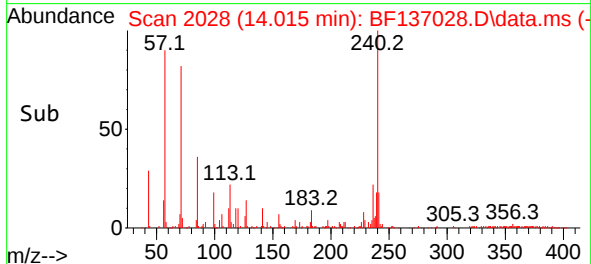
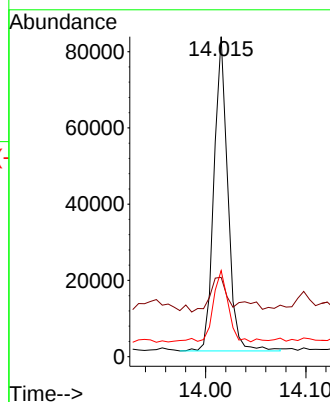
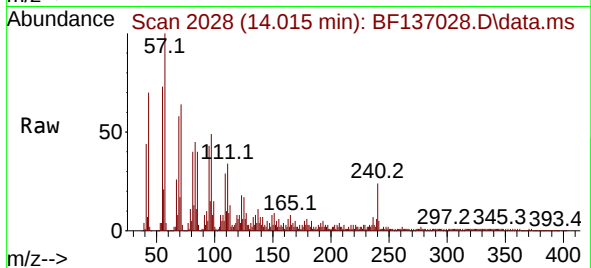
Tgt Ion:240 Resp: 79189  
 Ion Ratio Lower Upper  
 240 100  
 120 24.8 10.3 15.5  
 236 26.9 19.4 29.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/11/2024

Supervised By :mohammad ahmed 01/12/2024



#78

Pyrene

Concen: 9.348 ng

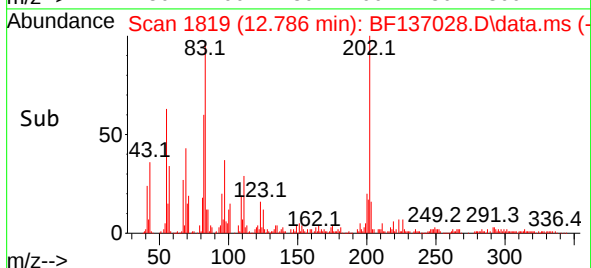
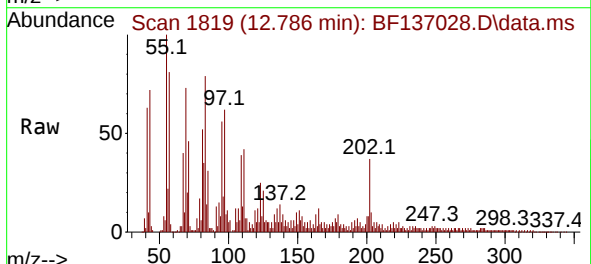
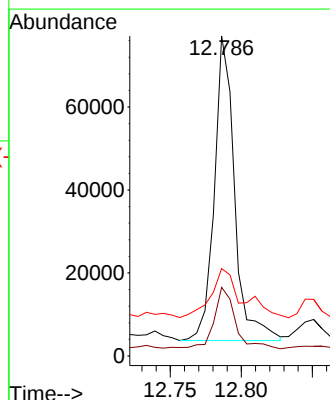
RT: 12.786 min Scan# 1819

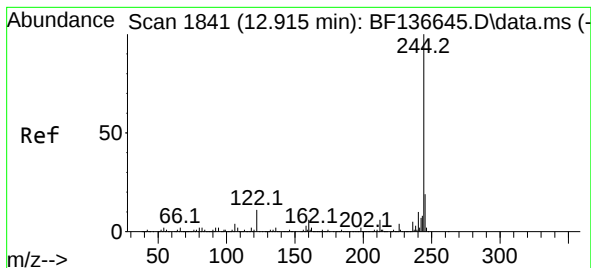
Delta R.T. 0.018 min

Lab File: BF137028.D

Acq: 10 Jan 2024 19:31

Tgt Ion:202 Resp: 72668  
 Ion Ratio Lower Upper  
 202 100  
 200 21.5 15.9 23.9  
 203 27.3 13.8 20.6





#79  
 Terphenyl-d14  
 Concen: 43.016 ng  
 RT: 12.933 min Scan# 1844  
 Delta R.T. 0.018 min  
 Lab File: BF137028.D  
 Acq: 10 Jan 2024 19:31

Instrument :

BNA\_F

ClientSampleId :

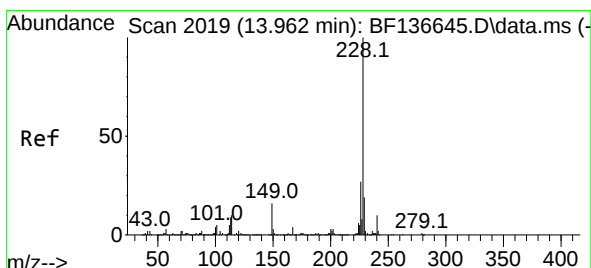
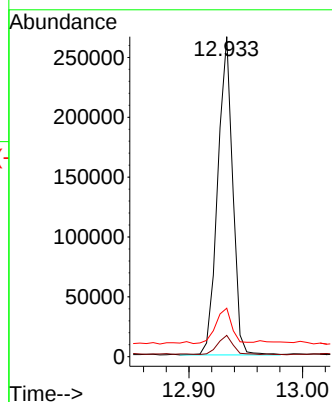
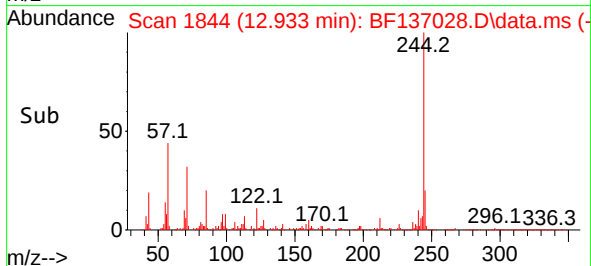
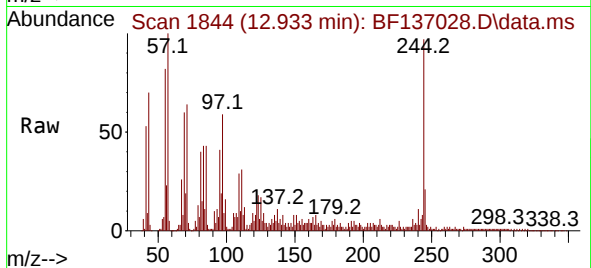
SP-B-COMP(0-8)

Tgt Ion:244 Resp: 24375  
 Ion Ratio Lower Upper  
 244 100  
 212 6.7 5.0 7.4  
 122 15.1 9.0 13.4

Manual Integrations

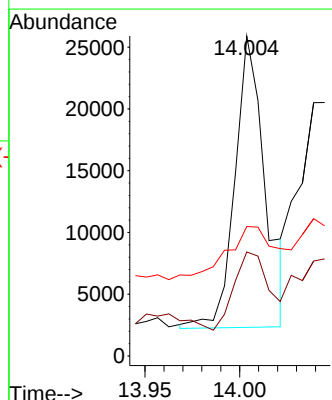
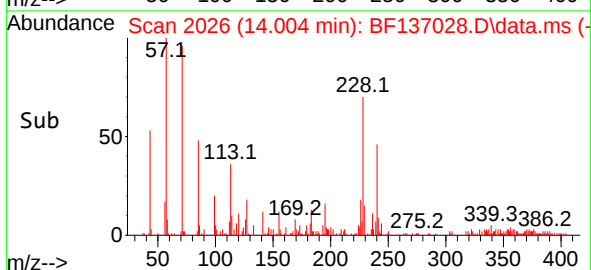
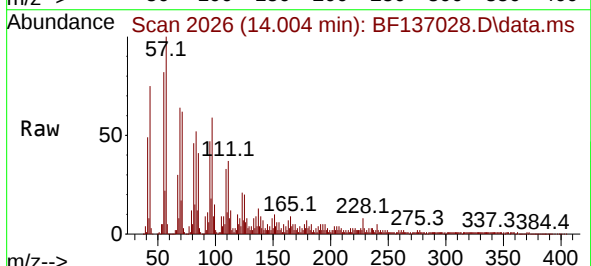
APPROVED

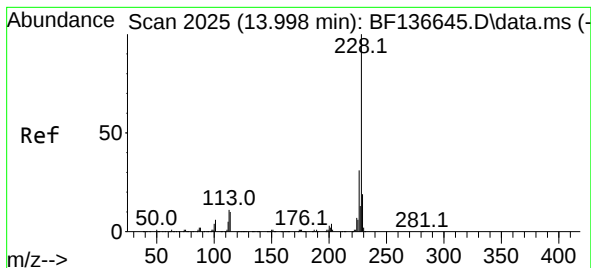
Reviewed By :Yogesh Patel 01/11/2024  
 Supervised By :mohammad ahmed 01/12/2024



#81  
 Benzo(a)anthracene  
 Concen: 4.744 ng  
 RT: 14.004 min Scan# 2026  
 Delta R.T. 0.041 min  
 Lab File: BF137028.D  
 Acq: 10 Jan 2024 19:31

Tgt Ion:228 Resp: 26084  
 Ion Ratio Lower Upper  
 228 100  
 226 32.5 21.4 32.0#  
 229 40.5 14.9 22.3#





#83

Chrysene

Concen: 4.719 ng

RT: 14.045 min Scan# 2022

Delta R.T. 0.047 min

Lab File: BF137028.D

Acq: 10 Jan 2024 19:31

Instrument :

BNA\_F

ClientSampleId :

SP-B-COMP(0-8)

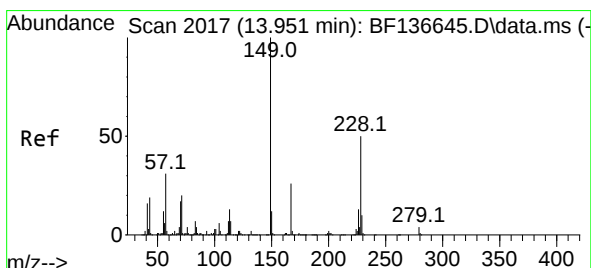
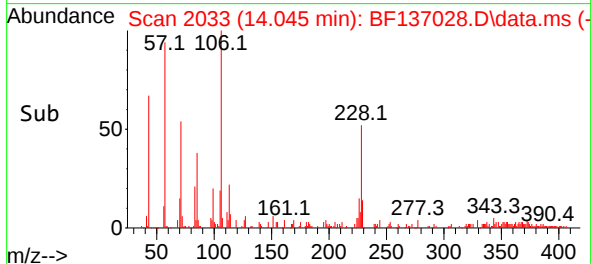
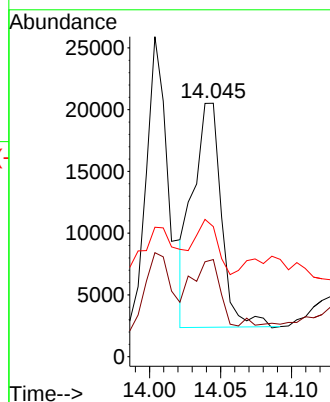
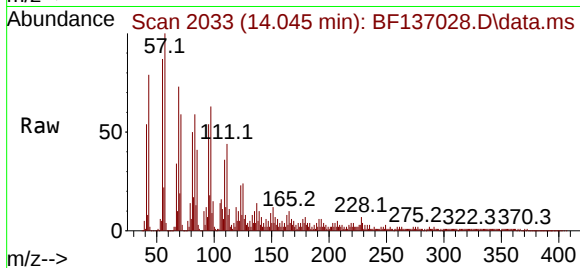
Tgt Ion:228 Resp: 25370  
 Ion Ratio Lower Upper  
 228 100  
 226 38.3 24.7 37.1#  
 229 51.3 15.4 23.0#

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/11/2024

Supervised By :mohammad ahmed 01/12/2024



#84

Bis(2-ethylhexyl)phthalate

Concen: 19.240 ng

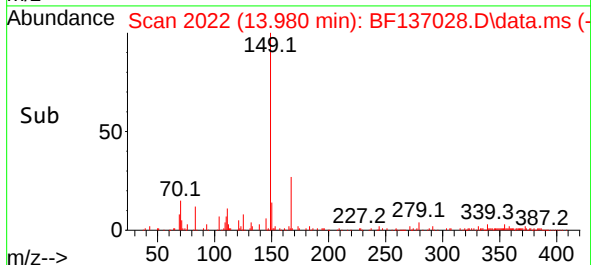
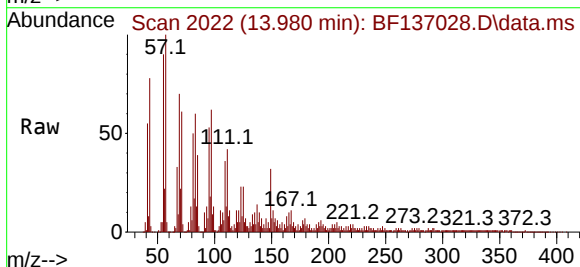
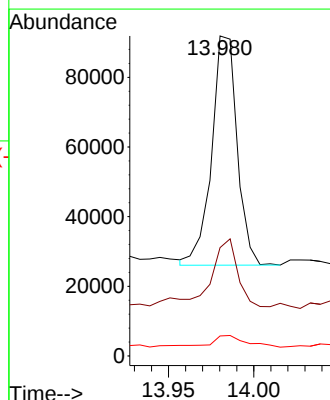
RT: 13.980 min Scan# 2022

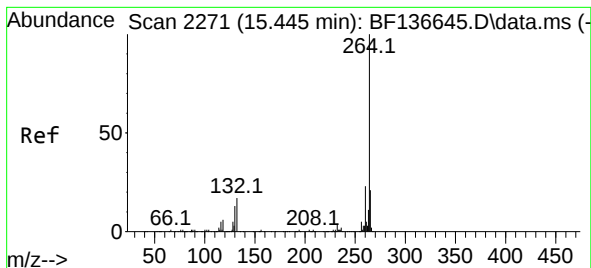
Delta R.T. 0.029 min

Lab File: BF137028.D

Acq: 10 Jan 2024 19:31

Tgt Ion:149 Resp: 68474  
 Ion Ratio Lower Upper  
 149 100  
 167 33.9 20.9 31.3#  
 279 6.2 2.9 4.3#





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.527 min Scan# 21

Delta R.T. 0.082 min

Lab File: BF137028.D

Acq: 10 Jan 2024 19:31

Instrument :

BNA\_F

ClientSampleId :

SP-B-COMP(0-8)

Tgt Ion:264 Resp: 81074

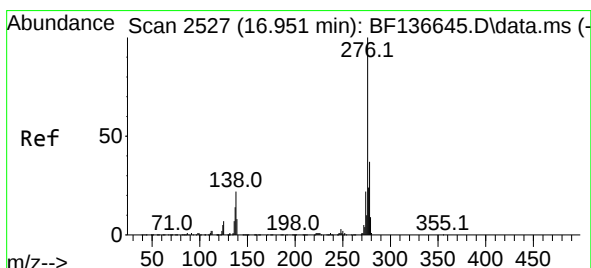
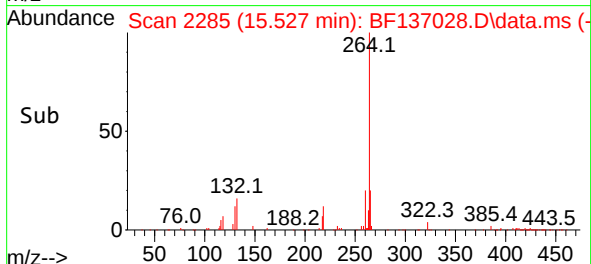
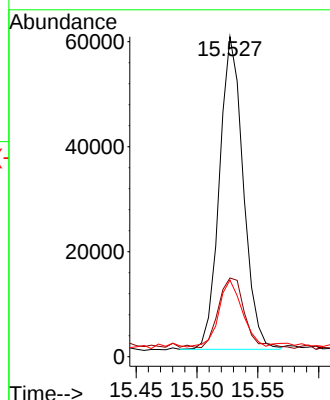
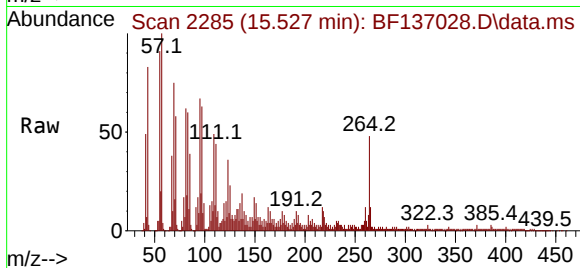
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 24.6  | 18.3  | 27.5  |
| 265 | 24.0  | 17.0  | 25.6  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/11/2024

Supervised By :mohammad ahmed 01/12/2024



#87

Indeno(1,2,3-cd)pyrene

Concen: 2.272 ng

RT: 17.056 min Scan# 2545

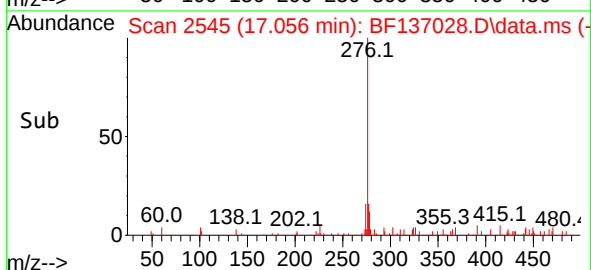
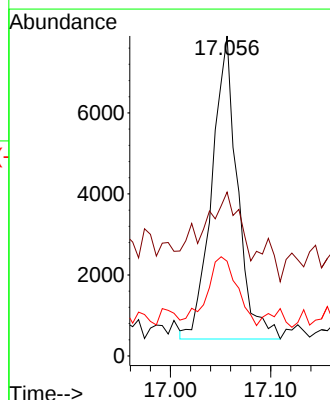
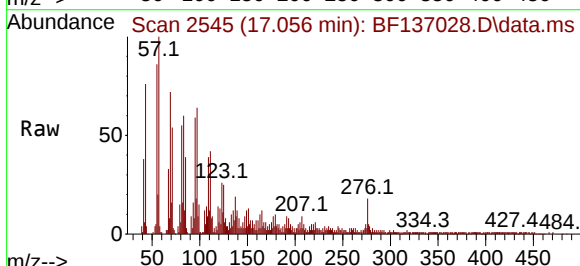
Delta R.T. 0.106 min

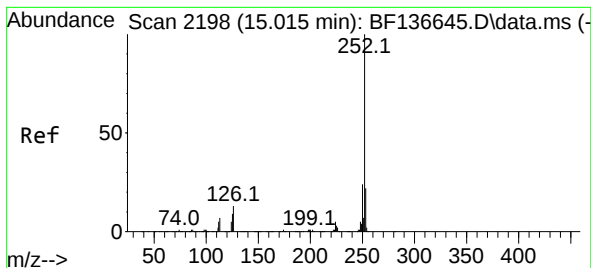
Lab File: BF137028.D

Acq: 10 Jan 2024 19:31

Tgt Ion:276 Resp: 13302

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 34.2  | 18.7  | 28.1# |
| 277 | 26.6  | 20.2  | 30.2  |





#88

Benzo(b)fluoranthene

Concen: 5.699 ng m

RT: 15.086 min Scan# 2198

Delta R.T. 0.071 min

Lab File: BF137028.D

Acq: 10 Jan 2024 19:31

Instrument :

BNF

ClientSampleId :

SP-B-COMP(0-8)

Tgt Ion:252 Resp: 30858

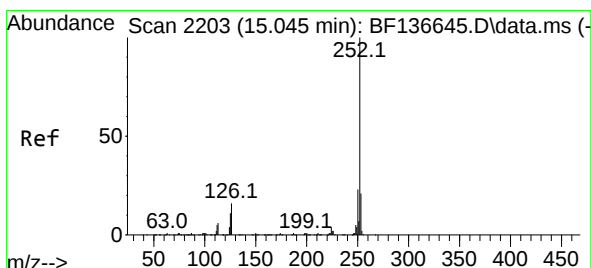
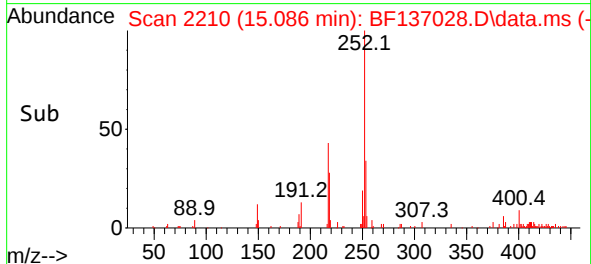
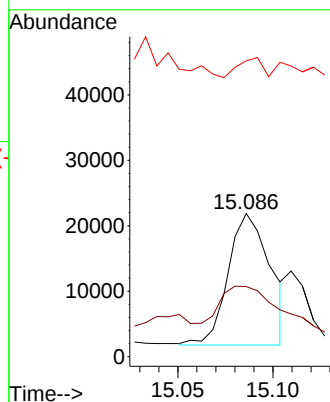
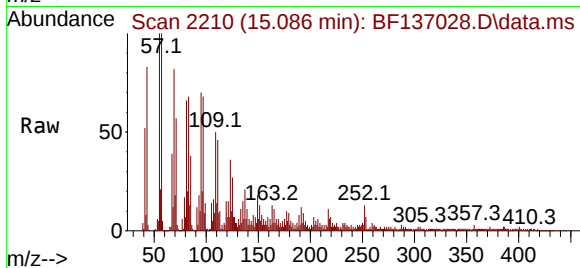
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 48.9  | 17.4  | 26.0  |
| 125 | 206.6 | 7.4   | 11.2  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/11/2024

Supervised By :mohammad ahmed 01/12/2024



#89

Benzo(k)fluoranthene

Concen: 2.117 ng m

RT: 15.110 min Scan# 2214

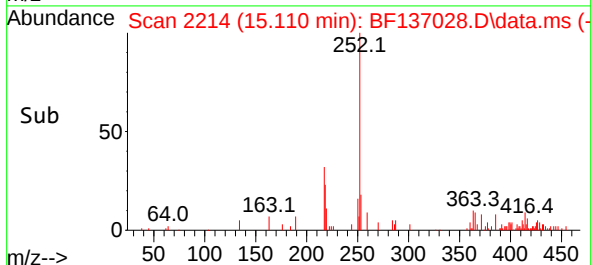
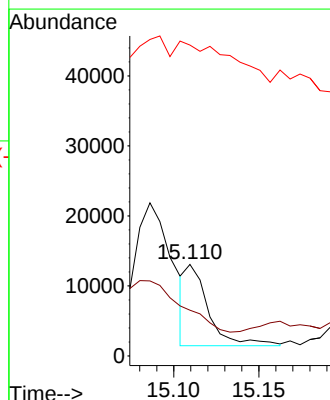
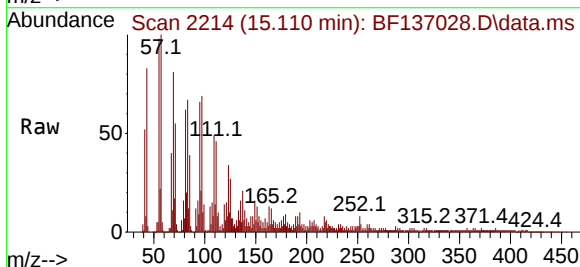
Delta R.T. 0.065 min

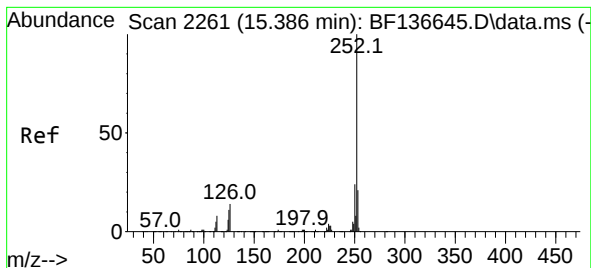
Lab File: BF137028.D

Acq: 10 Jan 2024 19:31

Tgt Ion:252 Resp: 10831

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 49.9  | 17.0  | 25.6  |
| 125 | 339.7 | 8.2   | 12.4  |





#90

Benzo(a)pyrene

Concen: 3.917 ng

RT: 15.462 min Scan# 21

Delta R.T. 0.077 min

Lab File: BF137028.D

Acq: 10 Jan 2024 19:31

Instrument :

BNA\_F

ClientSampleId :

SP-B-COMP(0-8)

Tgt Ion:252 Resp: 1790

Ion Ratio Lower Upper

252 100

253 42.4 17.0 25.6

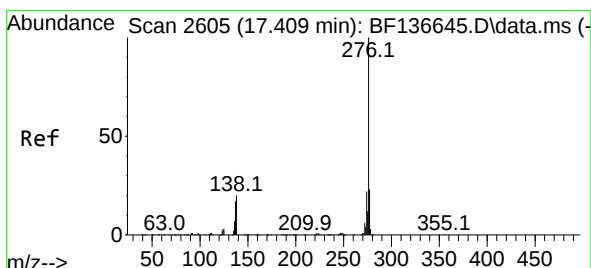
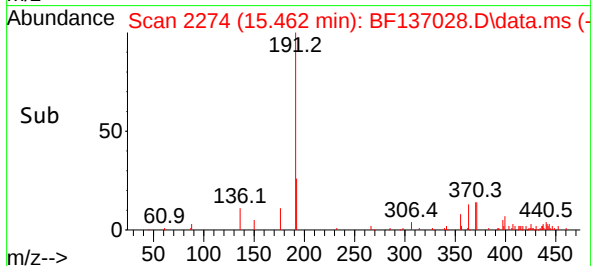
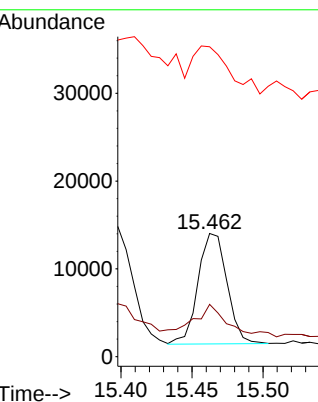
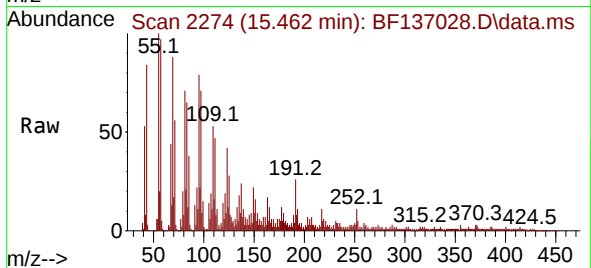
125 251.5 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/11/2024

Supervised By :mohammad ahmed 01/12/2024



#92

Benzo(g,h,i)perylene

Concen: 3.030 ng

RT: 17.515 min Scan# 2623

Delta R.T. 0.106 min

Lab File: BF137028.D

Acq: 10 Jan 2024 19:31

Tgt Ion:276 Resp: 14905

Ion Ratio Lower Upper

276 100

277 32.1 18.3 27.5#

138 46.1 15.6 23.4#

