

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF102124\  
 Data File : BF139905.D  
 Acq On : 21 Oct 2024 16:12  
 Operator : RC/JU  
 Sample : P4410-01RE 5X  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TR-04-101524RE

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 10/22/2024  
 Supervised By :mohammad ahmed 10/23/2024

Quant Time: Oct 21 16:35:32 2024  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF101824.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Oct 18 15:07:50 2024  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.886  | 152  | 168660   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.169  | 136  | 603283   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.927  | 164  | 275624   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.410 | 188  | 421175   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 14.051 | 240  | 327188   | 20.000 | ng    | 0.00     |
| 86) Perylene-d12            | 15.533 | 264  | 286832   | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.492  | 112  | 261899   | 24.309 | ng    | 0.00     |
| 7) Phenol-d6                | 6.498  | 99   | 321132   | 23.014 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.445  | 82   | 189794   | 17.436 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.710 | 330  | 51830    | 20.104 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.245  | 172  | 341057   | 20.450 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.998 | 244  | 300484   | 14.965 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene            | 11.433 | 178  | 45061    | 2.265  | ng    | 100      |
| 75) Fluoranthene            | 12.621 | 202  | 78918    | 3.924  | ng    | 99       |
| 78) Pyrene                  | 12.851 | 202  | 113084   | 3.948  | ng    | 97       |
| 81) Benzo(a)anthracene      | 14.039 | 228  | 54553    | 2.561  | ng    | # 89     |
| 83) Chrysene                | 14.074 | 228  | 50940    | 2.608  | ng    | # 95     |
| 88) Benzo(b)fluoranthene    | 15.098 | 252  | 51066m   | 2.923  | ng    |          |
| 90) Benzo(a)pyrene          | 15.462 | 252  | 37222    | 2.589  | ng    | # 85     |
| -----                       |        |      |          |        |       |          |

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

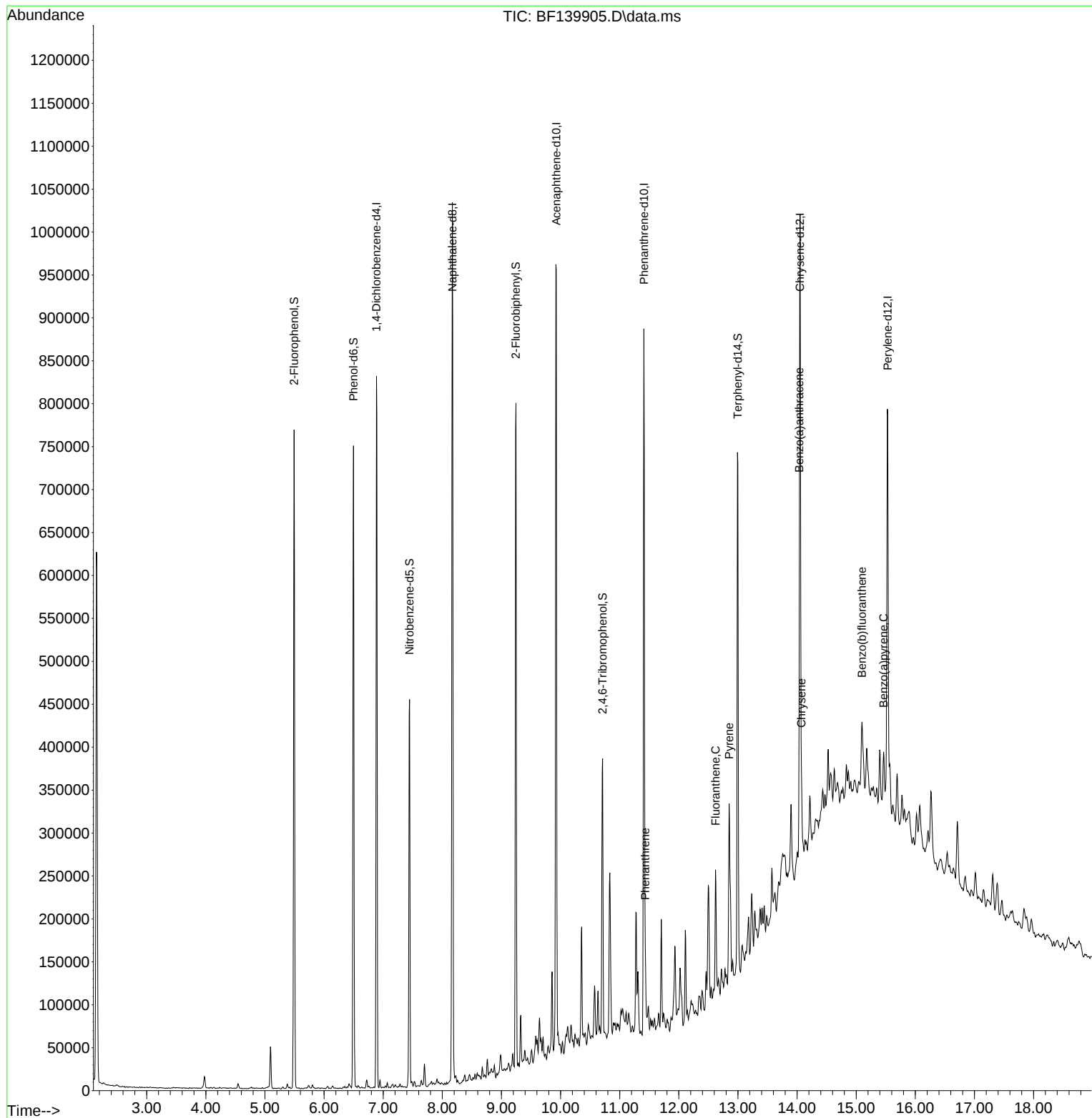
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF102124\  
Data File : BF139905.D  
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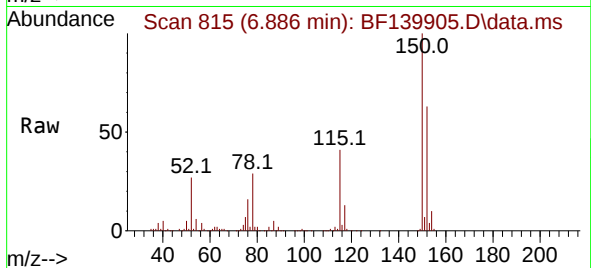
#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.886 min Scan# 816  
Delta R.T. -0.006 min  
Lab File: BF139905.D  
Acq: 21 Oct 2024 16:12

Instrument :

BNA\_F

ClientSampleId :

TR-04-101524RE

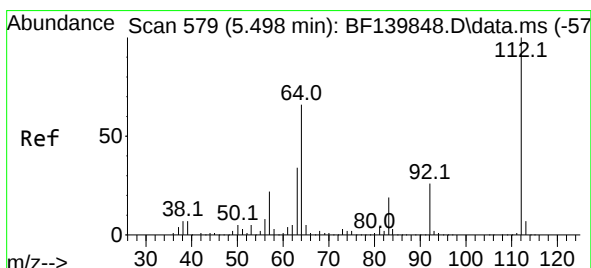
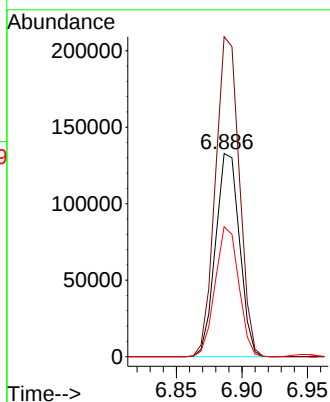
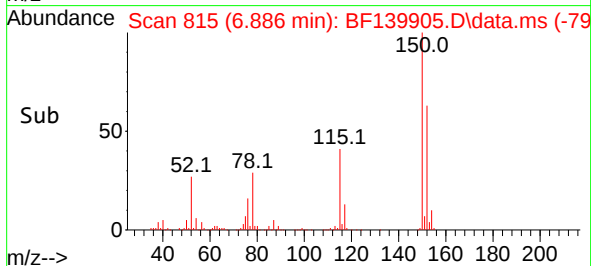


Tgt Ion:152 Resp: 168660  
Ion Ratio Lower Upper  
152 100  
150 157.5 130.2 195.2  
115 64.0 51.4 77.2

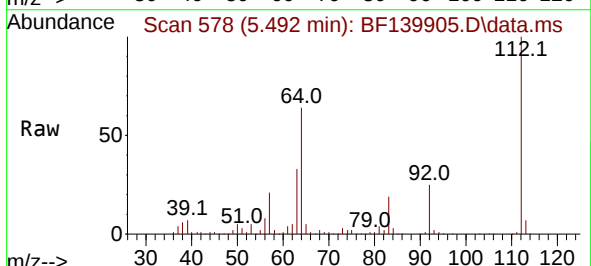
Manual Integrations

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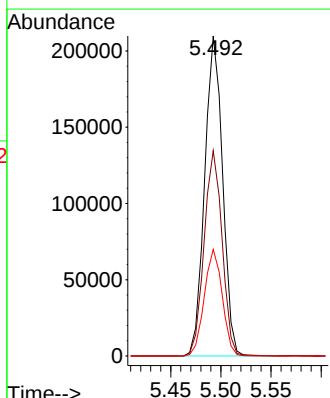
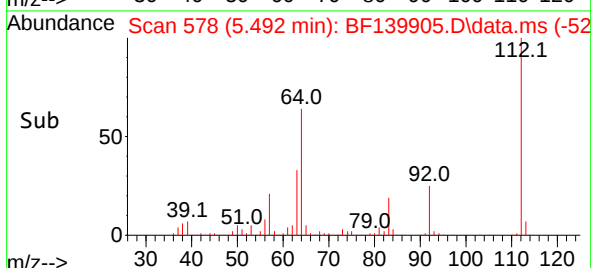
Reviewed By :Yogesh Patel 10/22/2024  
Supervised By :mohammad ahmed 10/23/2024



#5  
2-Fluorophenol  
Concen: 24.309 ng  
RT: 5.492 min Scan# 578  
Delta R.T. -0.006 min  
Lab File: BF139905.D  
Acq: 21 Oct 2024 16:12



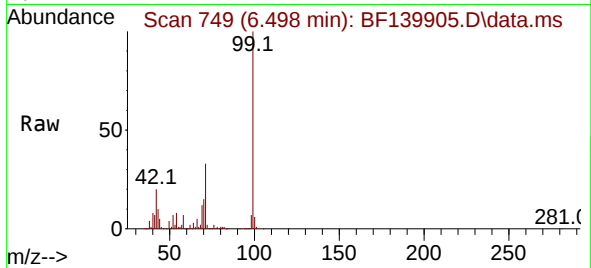
Tgt Ion:112 Resp: 261899  
Ion Ratio Lower Upper  
112 100  
64 64.2 53.0 79.6  
63 33.3 27.0 40.4





#7  
Phenol-d6  
Concen: 23.014 ng  
RT: 6.498 min Scan# 749  
Delta R.T. -0.012 min  
Lab File: BF139905.D  
Acq: 21 Oct 2024 16:12

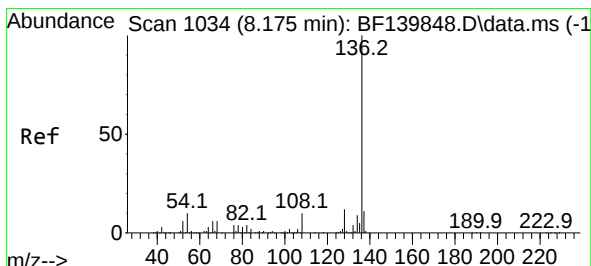
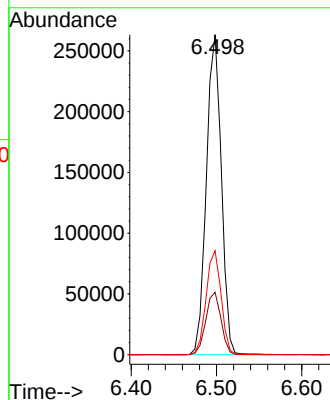
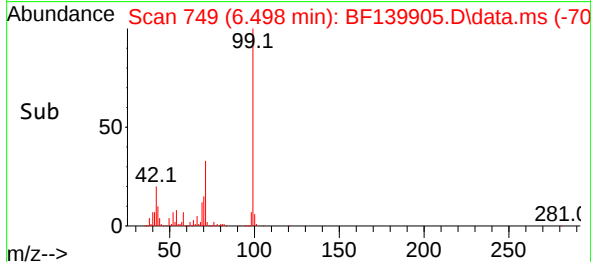
Instrument :  
BNA\_F  
ClientSampleId :  
TR-04-101524RE



Tgt Ion: 99 Resp: 321132  
Ion Ratio Lower Upper  
99 100  
42 19.5 16.7 25.1  
71 32.5 27.7 41.5

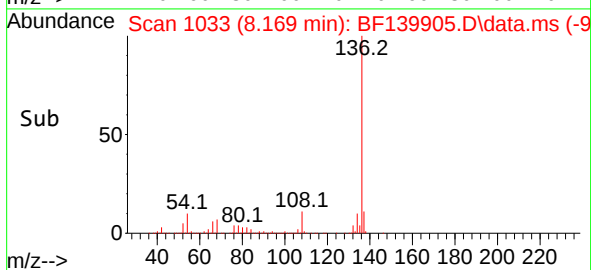
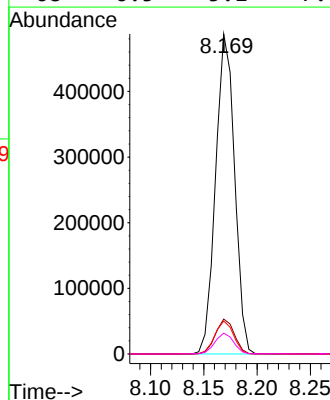
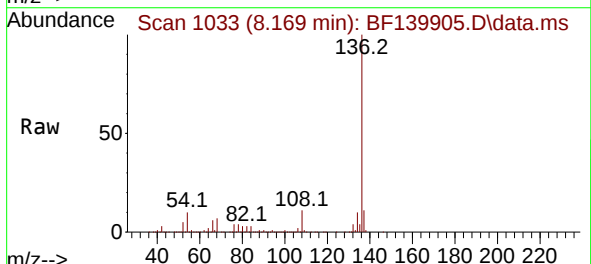
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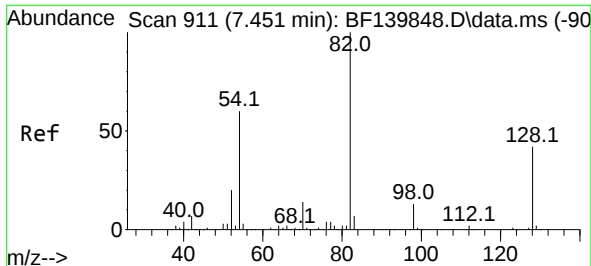
Reviewed By :Yogesh Patel 10/22/2024  
Supervised By :mohammad ahmed 10/23/2024



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.169 min Scan# 1033  
Delta R.T. -0.006 min  
Lab File: BF139905.D  
Acq: 21 Oct 2024 16:12

Tgt Ion:136 Resp: 603283  
Ion Ratio Lower Upper  
136 100  
137 10.9 8.6 12.8  
54 10.3 8.4 12.6  
68 6.5 5.1 7.7





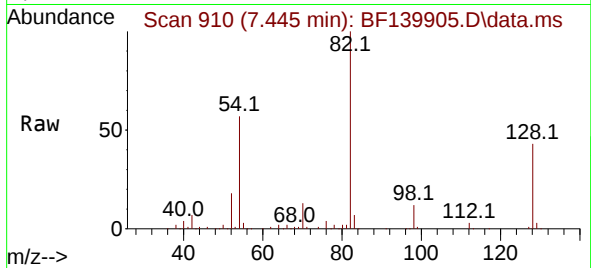
#23  
Nitrobenzene-d5  
Concen: 17.436 ng  
RT: 7.445 min Scan# 911  
Delta R.T. -0.006 min  
Lab File: BF139905.D  
Acq: 21 Oct 2024 16:12

Instrument :

BNA\_F

ClientSampleId :

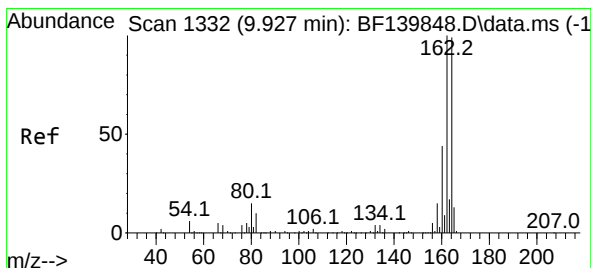
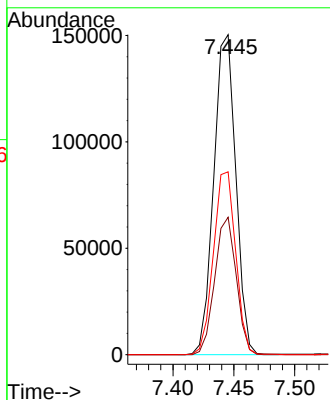
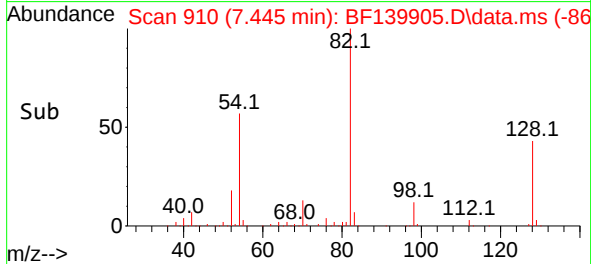
TR-04-101524RE



Tgt Ion: 82 Resp: 189794  
Ion Ratio Lower Upper  
82 100  
128 42.9 33.4 50.0  
54 57.2 47.8 71.8

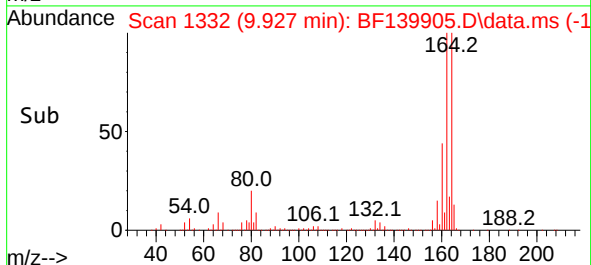
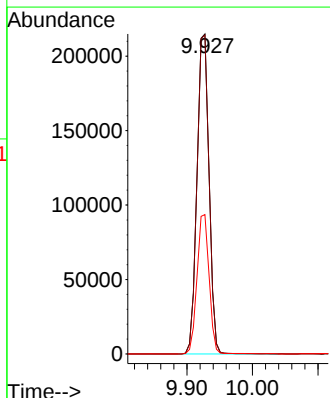
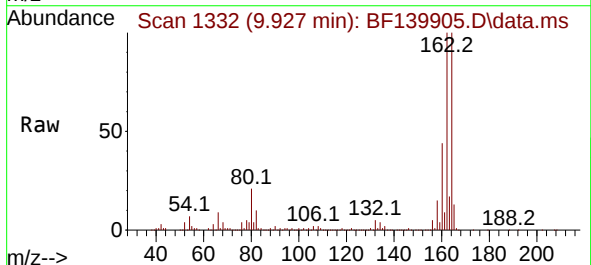
Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 10/22/2024  
Supervised By :mohammad ahmed 10/23/2024



#39  
Acenaphthene-d10  
Concen: 20.000 ng  
RT: 9.927 min Scan# 1332  
Delta R.T. 0.000 min  
Lab File: BF139905.D  
Acq: 21 Oct 2024 16:12

Tgt Ion:164 Resp: 275624  
Ion Ratio Lower Upper  
164 100  
162 99.7 81.0 121.4  
160 43.5 35.4 53.0





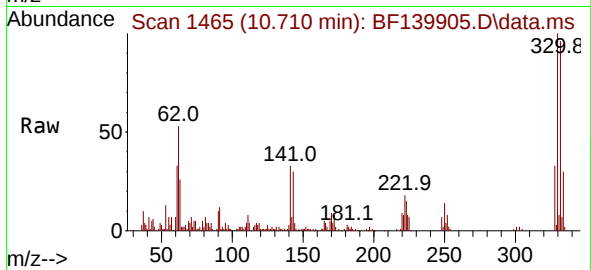
#42  
2,4,6-Tribromophenol  
Concen: 20.104 ng  
RT: 10.710 min Scan# 1465  
Delta R.T. -0.006 min  
Lab File: BF139905.D  
Acq: 21 Oct 2024 16:12

Instrument :

BNA\_F

ClientSampleId :

TR-04-101524RE



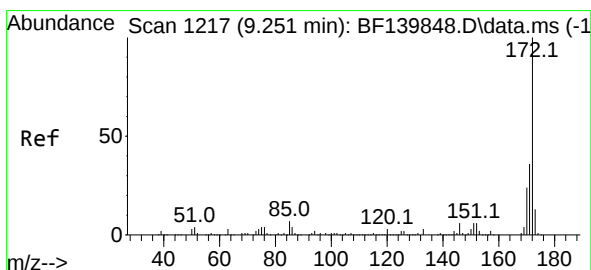
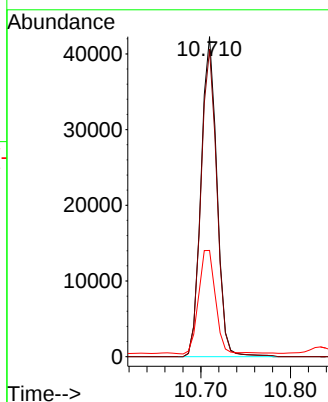
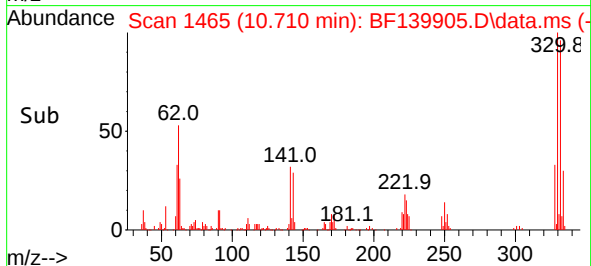
Tgt Ion: 330 Resp: 51830  
Ion Ratio Lower Upper  
330 100  
332 96.6 78.1 117.1  
141 34.3 26.6 39.8

Manual Integrations

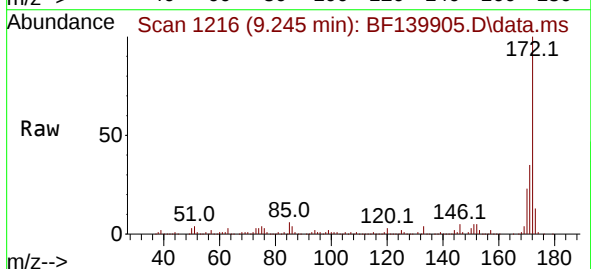
APPROVED

Reviewed By : Yogesh Patel 10/22/2024

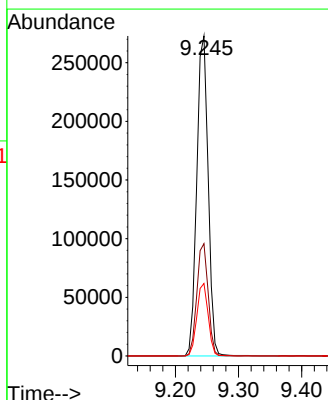
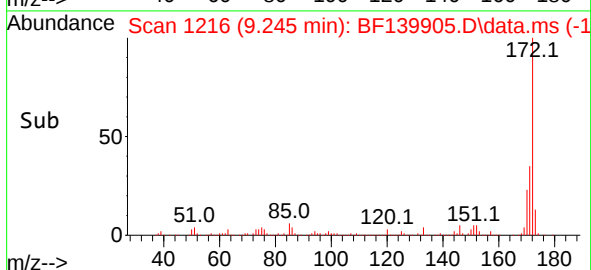
Supervised By : mohammad ahmed 10/23/2024

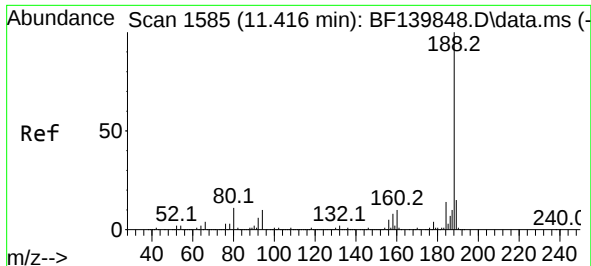


#45  
2-Fluorobiphenyl  
Concen: 20.450 ng  
RT: 9.245 min Scan# 1216  
Delta R.T. -0.006 min  
Lab File: BF139905.D  
Acq: 21 Oct 2024 16:12



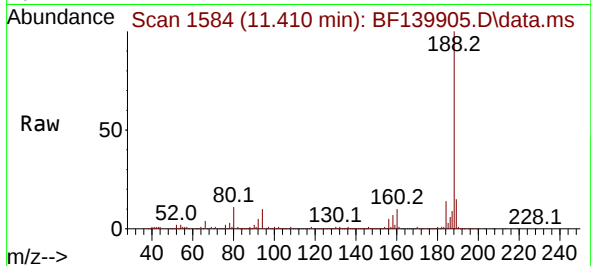
Tgt Ion: 172 Resp: 341057  
Ion Ratio Lower Upper  
172 100  
171 35.1 28.6 43.0  
170 22.6 19.1 28.7





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.410 min Scan# 1585  
Delta R.T. -0.006 min  
Lab File: BF139905.D  
Acq: 21 Oct 2024 16:12

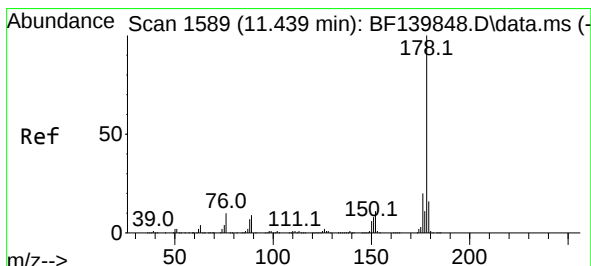
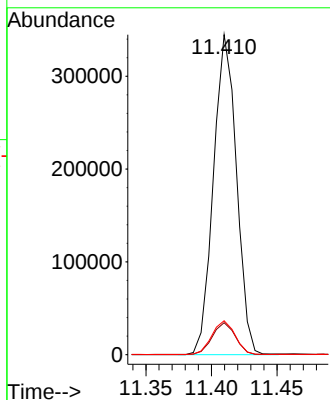
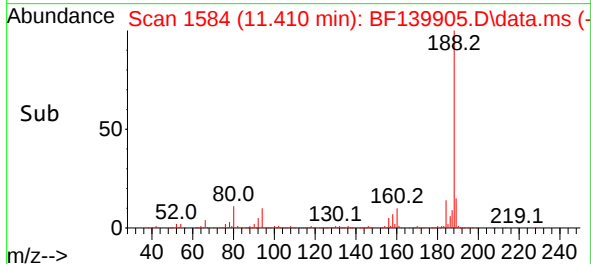
Instrument :  
BNA\_F  
ClientSampleId :  
TR-04-101524RE



Tgt Ion:188 Resp: 421179  
Ion Ratio Lower Upper  
188 100  
94 10.0 7.9 11.9  
80 10.6 9.0 13.4

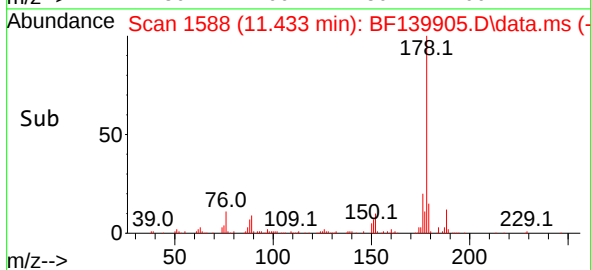
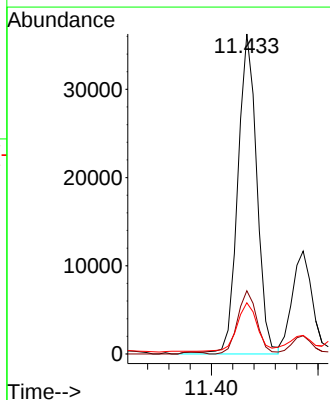
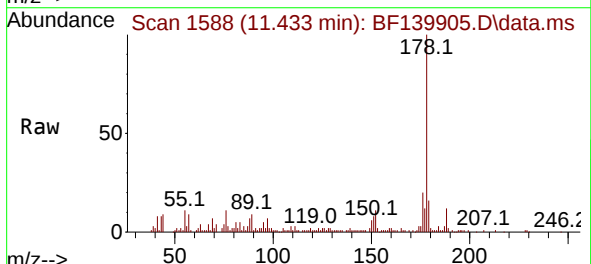
Manual Integrations  
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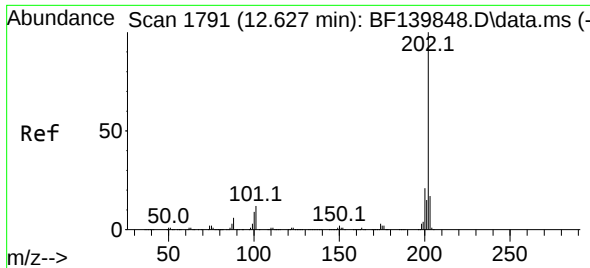
Reviewed By :Yogesh Patel 10/22/2024  
Supervised By :mohammad ahmed 10/23/2024



#71  
Phenanthrene  
Concen: 2.265 ng  
RT: 11.433 min Scan# 1588  
Delta R.T. -0.006 min  
Lab File: BF139905.D  
Acq: 21 Oct 2024 16:12

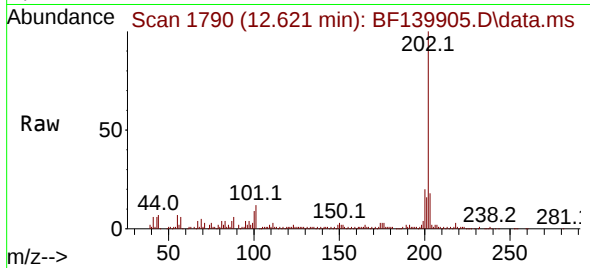
Tgt Ion:178 Resp: 45061  
Ion Ratio Lower Upper  
178 100  
176 19.7 15.8 23.6  
179 16.0 12.6 18.8





#75  
Fluoranthene  
Concen: 3.924 ng  
RT: 12.621 min Scan# 1791  
Delta R.T. -0.006 min  
Lab File: BF139905.D  
Acq: 21 Oct 2024 16:12

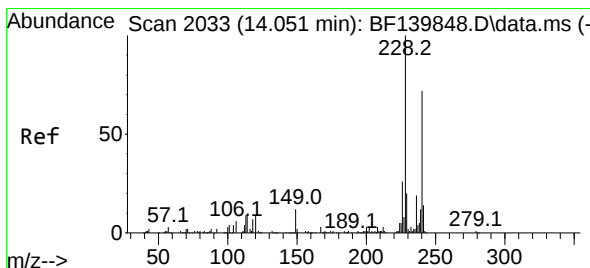
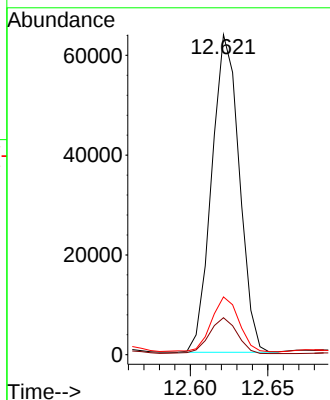
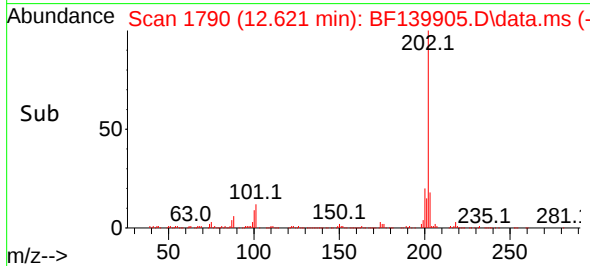
Instrument :  
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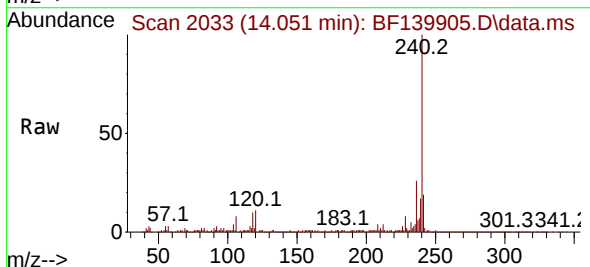
Tgt Ion:202 Resp: 78918  
Ion Ratio Lower Upper  
202 100  
101 11.5 0.0 31.9  
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Manual Integrations  
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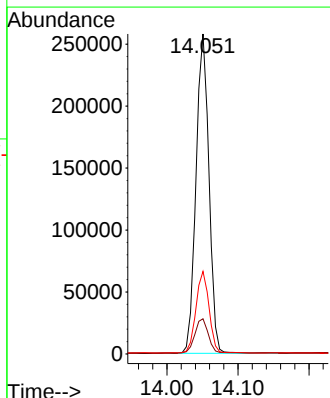
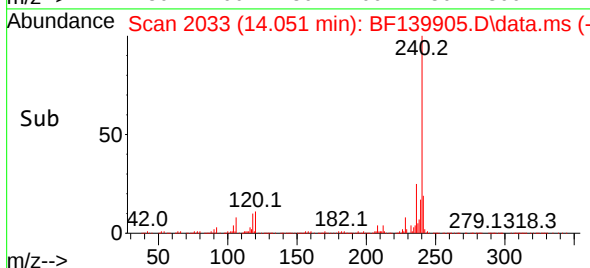
Reviewed By :Yogesh Patel 10/22/2024  
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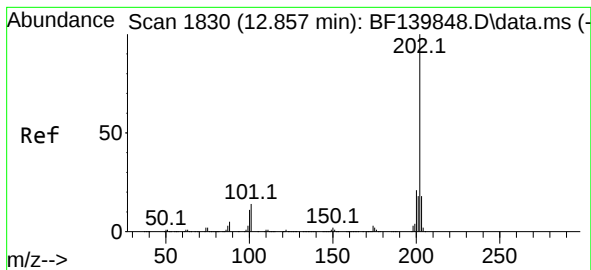


#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.051 min Scan# 2033  
Delta R.T. -0.000 min  
Lab File: BF139905.D  
Acq: 21 Oct 2024 16:12



Tgt Ion:240 Resp: 327188  
Ion Ratio Lower Upper  
240 100  
120 11.0 9.4 14.2  
236 25.8 20.9 31.3





#78

Pyrene

Concen: 3.948 ng

RT: 12.851 min Scan# 1829

Delta R.T. -0.006 min

Lab File: BF139905.D

Acq: 21 Oct 2024 16:12

Instrument :

BNA\_F

ClientSampleId :

TR-04-101524RE

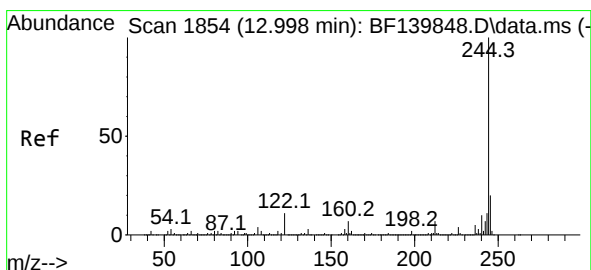
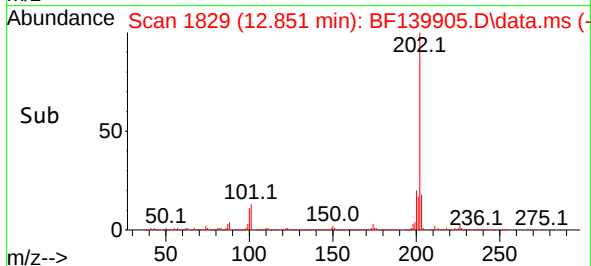
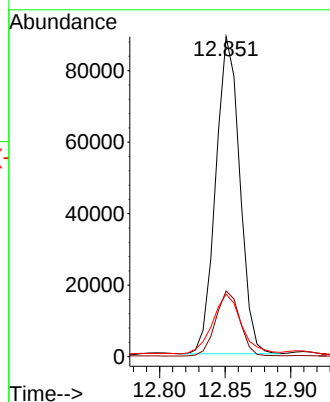
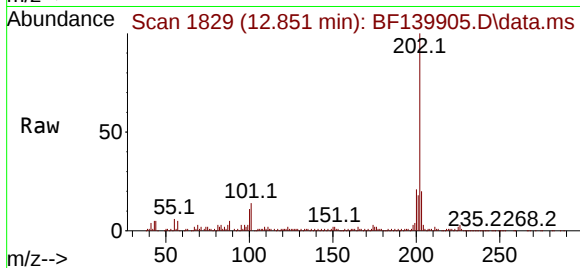
Tgt Ion:202 Resp: 113084  
 Ion Ratio Lower Upper  
 202 100  
 200 20.5 17.2 25.8  
 203 19.5 14.2 21.4

Manual Integrations

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Supervised By :mohammad ahmed 10/23/2024



#79

Terphenyl-d14

Concen: 14.965 ng

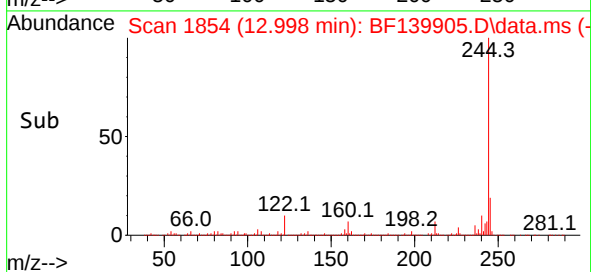
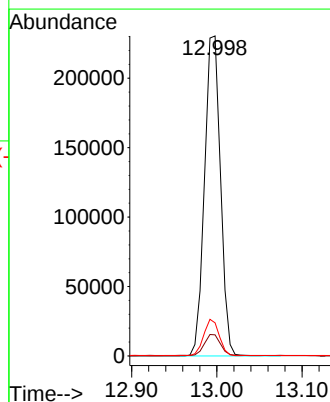
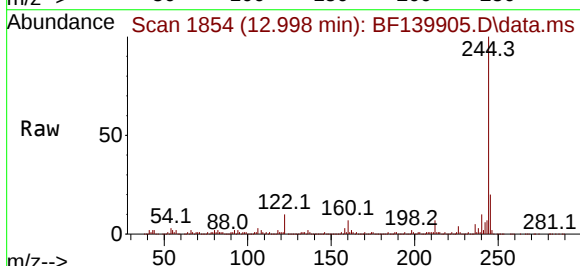
RT: 12.998 min Scan# 1854

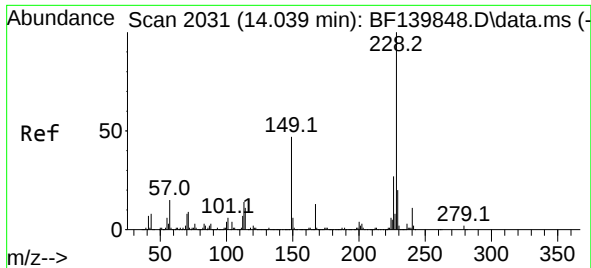
Delta R.T. -0.000 min

Lab File: BF139905.D

Acq: 21 Oct 2024 16:12

Tgt Ion:244 Resp: 300484  
 Ion Ratio Lower Upper  
 244 100  
 212 6.6 5.7 8.5  
 122 10.3 8.6 13.0





#81  
Benzo(a)anthracene  
Concen: 2.561 ng  
RT: 14.039 min Scan# 2031  
Delta R.T. -0.000 min  
Lab File: BF139905.D  
Acq: 21 Oct 2024 16:12

Instrument :

BNA\_F

ClientSampleId :

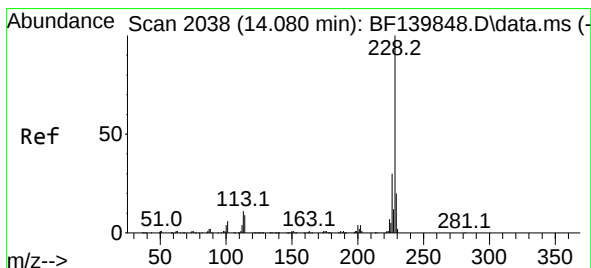
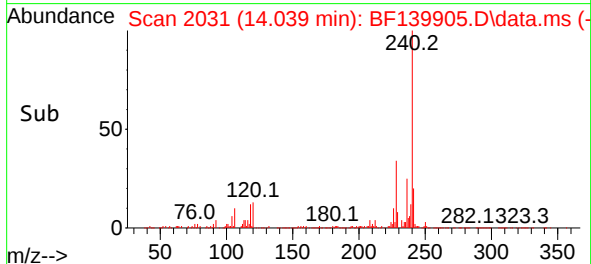
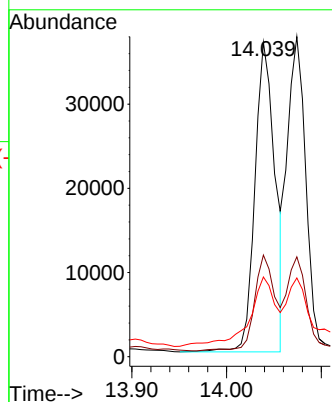
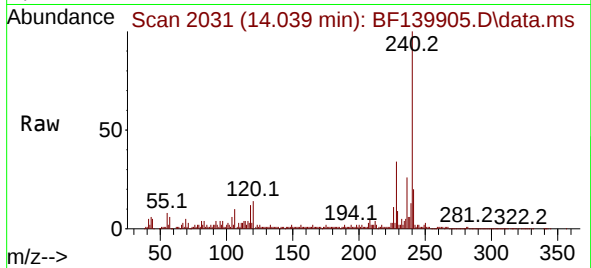
TR-04-101524RE

Tgt Ion:228 Resp: 5455  
Ion Ratio Lower Upper  
228 100  
226 32.3 21.6 32.4  
229 25.3 16.1 24.1

Manual Integrations

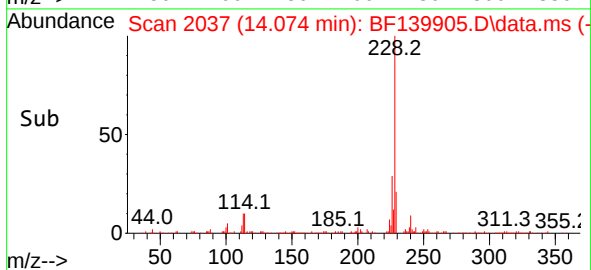
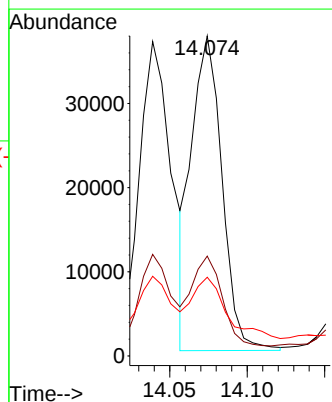
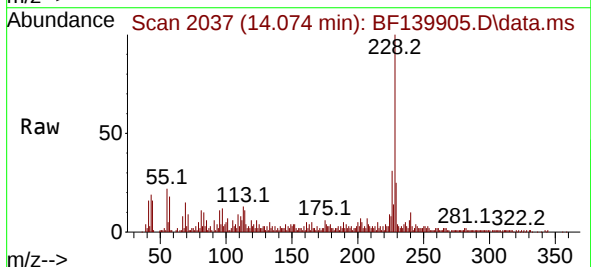
APPROVED

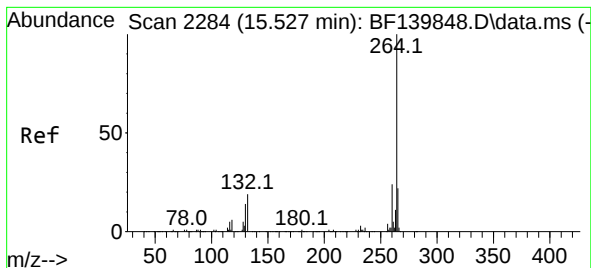
Reviewed By :Yogesh Patel 10/22/2024  
Supervised By :mohammad ahmed 10/23/2024



#83  
Chrysene  
Concen: 2.608 ng  
RT: 14.074 min Scan# 2037  
Delta R.T. -0.006 min  
Lab File: BF139905.D  
Acq: 21 Oct 2024 16:12

Tgt Ion:228 Resp: 50940  
Ion Ratio Lower Upper  
228 100  
226 31.2 24.1 36.1  
229 24.6 15.8 23.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.533 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF139905.D

Acq: 21 Oct 2024 16:12

Instrument :

BNA\_F

ClientSampleId :

TR-04-101524RE

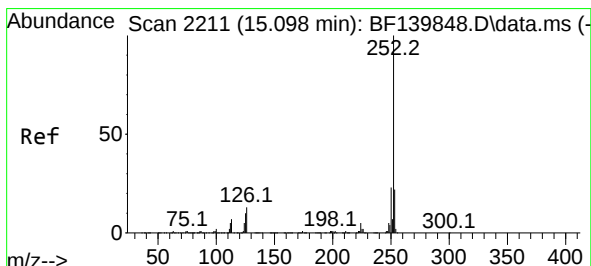
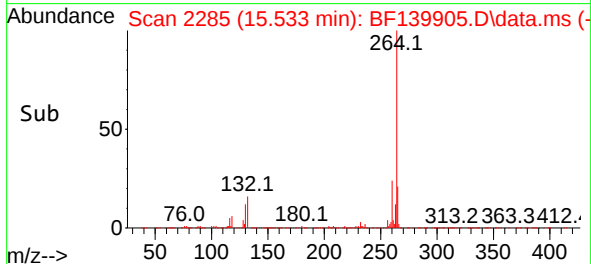
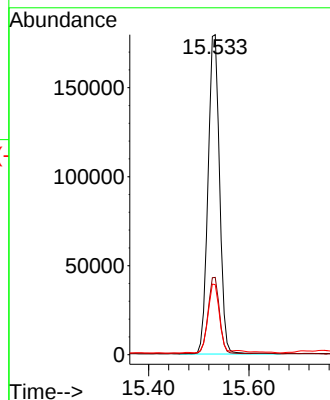
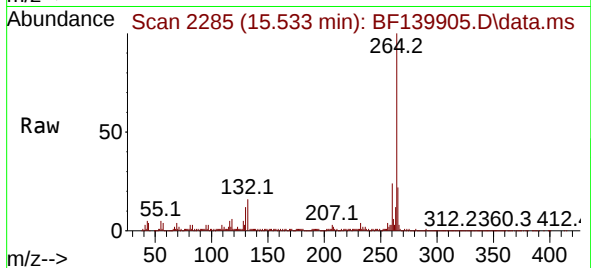
Tgt Ion:264 Resp: 28683  
 Ion Ratio Lower Upper  
 264 100  
 260 24.1 19.4 29.2  
 265 21.9 17.4 26.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/22/2024

Supervised By :mohammad ahmed 10/23/2024



#88

Benzo(b)fluoranthene

Concen: 2.923 ng m

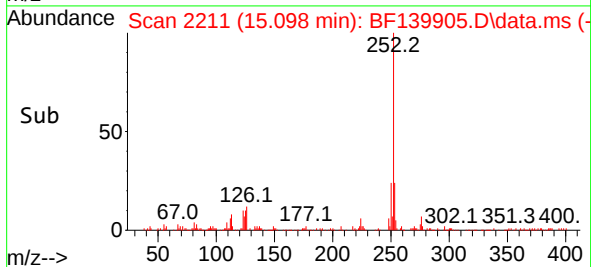
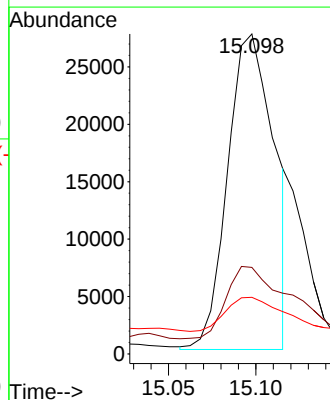
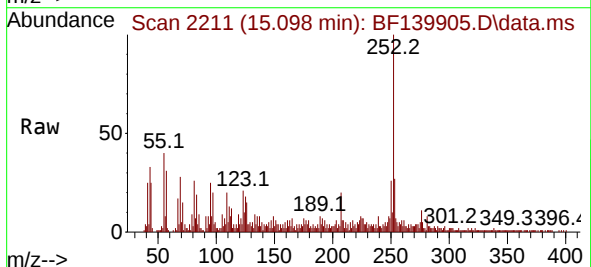
RT: 15.098 min Scan# 2211

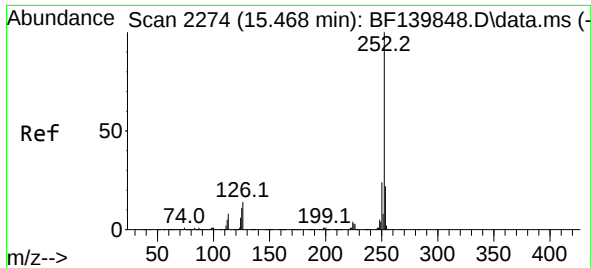
Delta R.T. -0.000 min

Lab File: BF139905.D

Acq: 21 Oct 2024 16:12

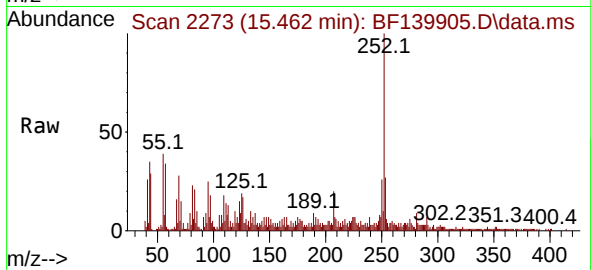
Tgt Ion:252 Resp: 51066  
 Ion Ratio Lower Upper  
 252 100  
 253 27.0 17.6 26.4#  
 125 17.7 7.9 11.9#





#90  
Benzo(a)pyrene  
Concen: 2.589 ng  
RT: 15.462 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BF139905.D  
Acq: 21 Oct 2024 16:12

Instrument :  
BNA\_F  
ClientSampleId :  
TR-04-101524RE



Tgt Ion:252 Resp: 3722  
Ion Ratio Lower Upper  
252 100  
253 27.0 17.3 25.9  
125 19.1 8.7 13.1

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 10/22/2024  
Supervised By :mohammad ahmed 10/23/2024

