

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF081523\  
 Data File : BF134779.D  
 Acq On : 15 Aug 2023 11:24  
 Operator : CG\JU  
 Sample : 03975-02DL 100X  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 NEVINS-SB03-Z10-12-QDL

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 08/16/2023  
 Supervised By :Sohil Jodhani 08/16/2023

Quant Time: Aug 16 03:09:31 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF080123.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Aug 04 09:29:15 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.798  | 152  | 150710   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.081  | 136  | 620027   | 20.000 | ng    | # 0.00   |
| 39) Acenaphthene-d10        | 9.833  | 164  | 334677   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.321 | 188  | 637039   | 20.000 | ng    | # 0.00   |
| 76) Chrysene-d12            | 13.968 | 240  | 407493   | 20.000 | ng    | # 0.00   |
| 86) Perylene-d12            | 15.439 | 264  | 365569   | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.422  | 112  | 5509     | 0.556  | ng    | 0.00     |
| 7) Phenol-d6                | 6.422  | 99   | 6836     | 0.539  | ng    | -0.02    |
| 23) Nitrobenzene-d5         | 7.351  | 82   | 4616     | 0.465  | ng    | -0.02    |
| 42) 2,4,6-Tribromophenol    | 10.622 | 330  | 1917     | 0.562  | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.151  | 172  | 12613    | 0.627  | ng    | -0.01    |
| 79) Terphenyl-d14           | 12.910 | 244  | 15255    | 0.660  | ng    | -0.01    |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 31) Naphthalene             | 8.104  | 128  | 2305382  | 73.982 | ng    | 98       |
| 37) 2-Methylnaphthalene     | 8.792  | 142  | 695891   | 33.691 | ng    | 98       |
| 38) 1-Methylnaphthalene     | 8.886  | 142  | 439230   | 22.868 | ng    | 99       |
| 46) 1,1'-Biphenyl           | 9.251  | 154  | 114362   | 4.394  | ng    | 96       |
| 52) Acenaphthene            | 9.863  | 154  | 337822   | 17.006 | ng    | 98       |
| 58) Fluorene                | 10.380 | 166  | 177510   | 8.618  | ng    | 95       |
| 71) Phenanthrene            | 11.345 | 178  | 773636   | 22.864 | ng    | 99       |
| 72) Anthracene              | 11.398 | 178  | 214138   | 6.196  | ng    | 100      |
| 75) Fluoranthene            | 12.539 | 202  | 281886   | 7.887  | ng    | 98       |
| 78) Pyrene                  | 12.768 | 202  | 433079   | 12.282 | ng    | 98       |
| 81) Benzo(a)anthracene      | 13.957 | 228  | 115253m  | 3.955  | ng    |          |
| 83) Chrysene                | 13.992 | 228  | 99488    | 3.505  | ng    | 99       |
| 88) Benzo(b)fluoranthene    | 15.015 | 252  | 60323m   | 2.706  | ng    |          |
| 90) Benzo(a)pyrene          | 15.374 | 252  | 78219    | 3.763  | ng    | # 95     |
| -----                       |        |      |          |        |       |          |

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

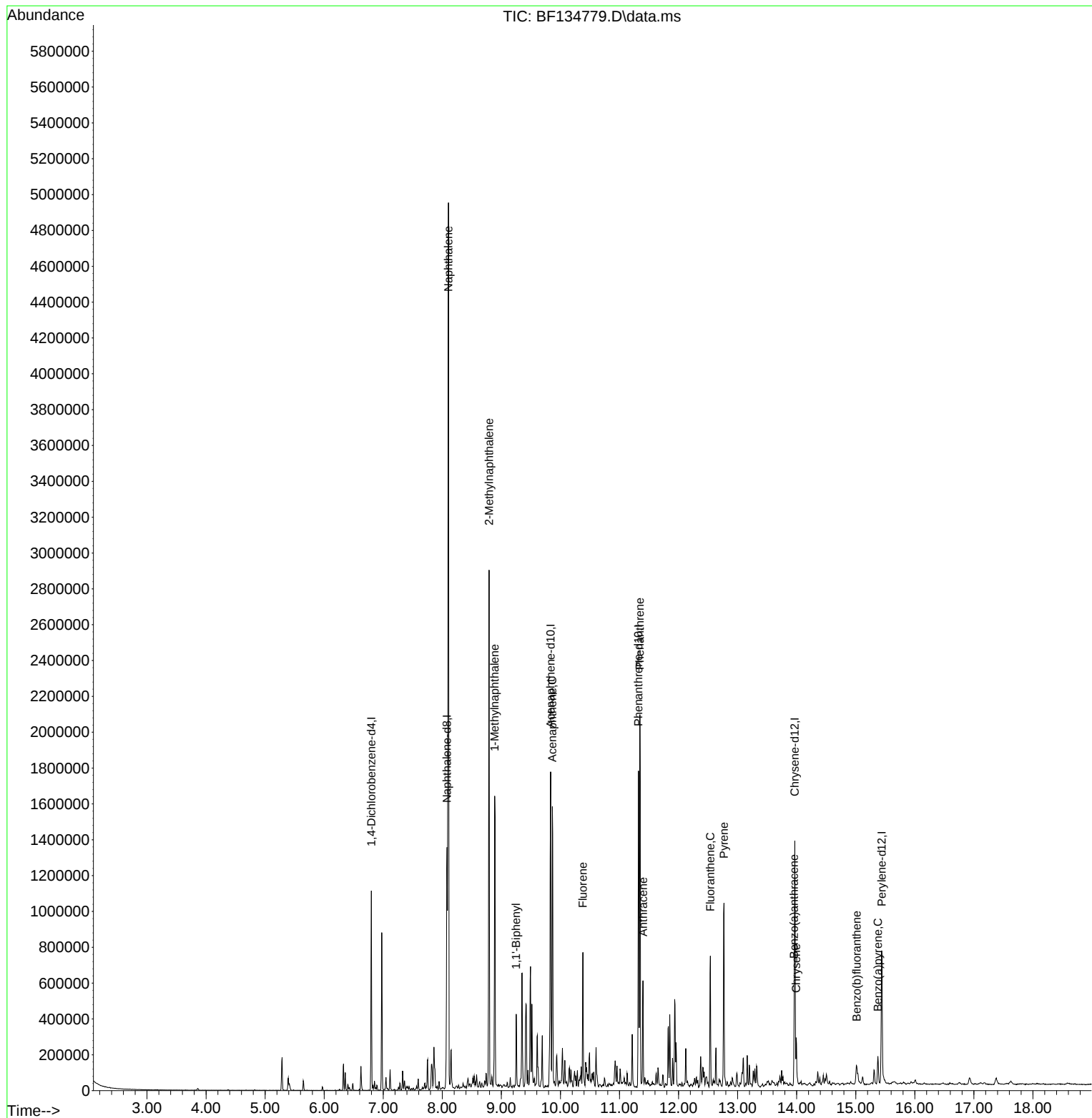
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF081523\  
Data File : BF134779.D  
Acq On : 15 Aug 2023 11:24  
Operator : CG\JU  
Sample : 03975-02DL 100X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

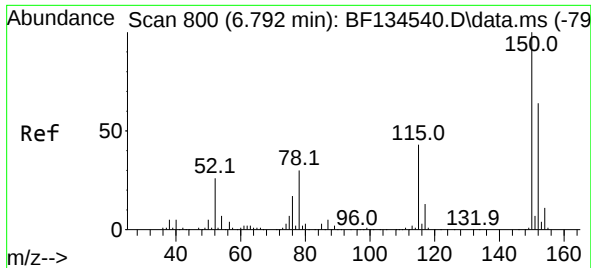
Instrument :  
BNA\_F  
ClientSampleId :  
NEVINS-SB03-Z10-12-QDL

Quant Time: Aug 16 03:09:31 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF080123.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Aug 04 09:29:15 2023  
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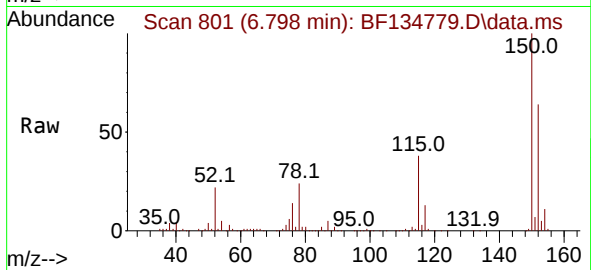
Reviewed By :Yogesh Patel 08/16/2023  
Supervised By :Sohil Jodhani 08/16/2023





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 6.798 min Scan# 800  
Delta R.T. 0.000 min  
Lab File: BF134779.D  
Acq: 15 Aug 2023 11:24

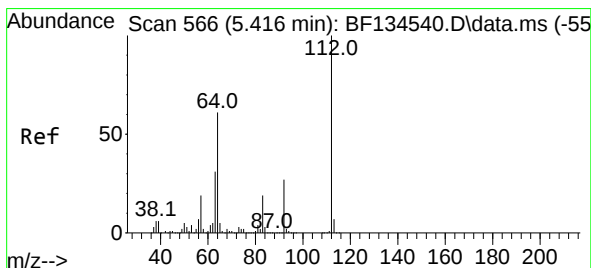
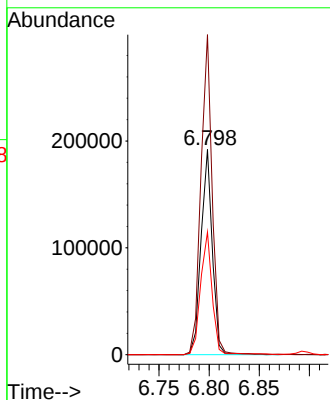
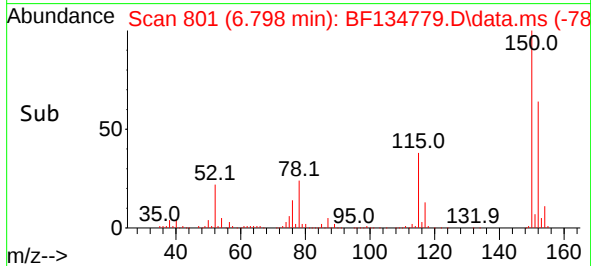
Instrument :  
BNA\_F  
ClientSampleId :  
NEVINS-SB03-Z10-12-QDL



Tgt Ion:152 Resp: 150710  
Ion Ratio Lower Upper  
152 100  
150 155.9 128.3 192.5  
115 59.8 52.4 78.6

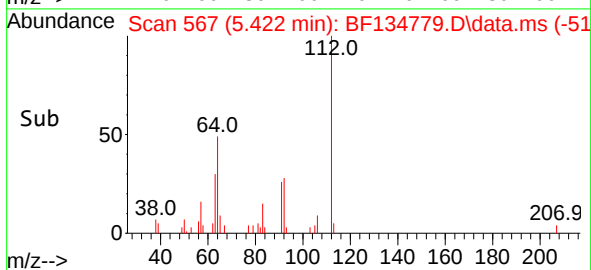
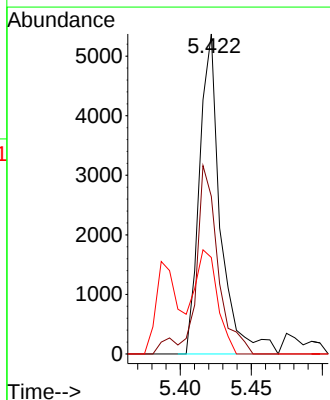
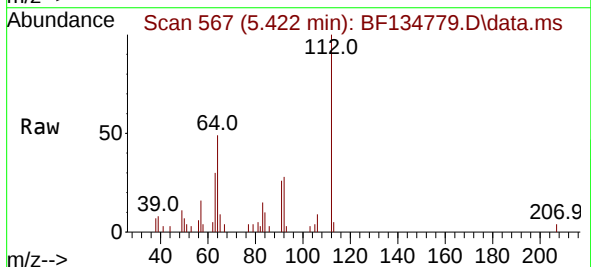
Manual Integrations  
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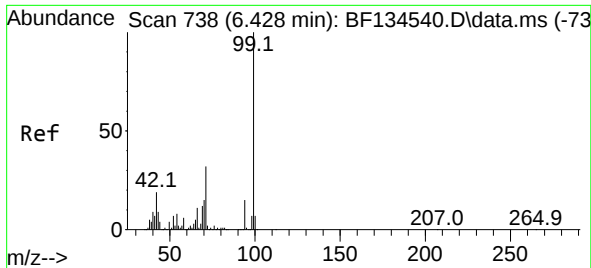
Reviewed By :Yogesh Patel 08/16/2023  
Supervised By :Sohil Jodhani 08/16/2023



#5  
2-Fluorophenol  
Concen: 0.556 ng  
RT: 5.422 min Scan# 567  
Delta R.T. -0.006 min  
Lab File: BF134779.D  
Acq: 15 Aug 2023 11:24

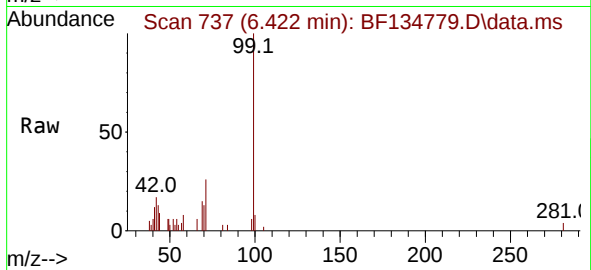
Tgt Ion:112 Resp: 5509  
Ion Ratio Lower Upper  
112 100  
64 49.3 44.9 67.3  
63 30.2 25.4 38.0





#7  
Phenol-d6  
Concen: 0.539 ng  
RT: 6.422 min Scan# 71  
Delta R.T. -0.018 min  
Lab File: BF134779.D  
Acq: 15 Aug 2023 11:24

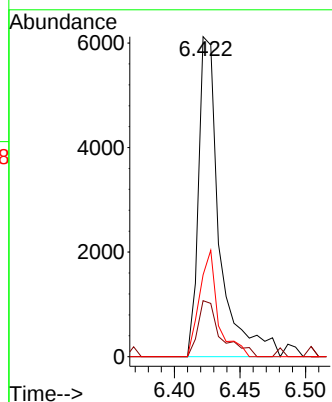
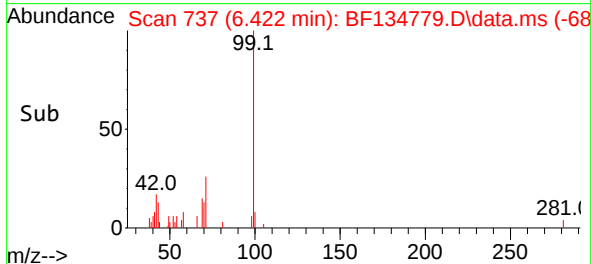
Instrument :  
BNA\_F  
ClientSampleId :  
NEVINS-SB03-Z10-12-QDL



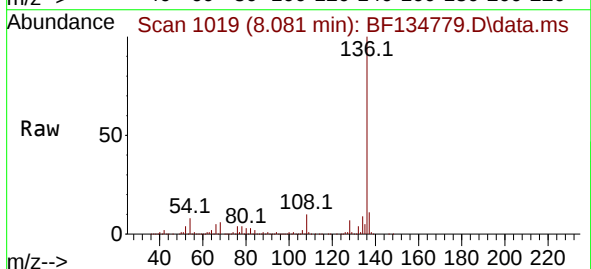
Tgt Ion: 99 Resp: 6830  
Ion Ratio Lower Upper  
99 100  
42 17.5 18.7 28.1  
71 25.5 36.4 54.6

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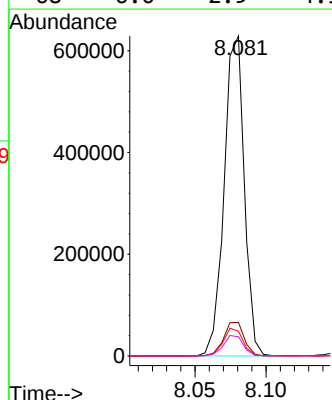
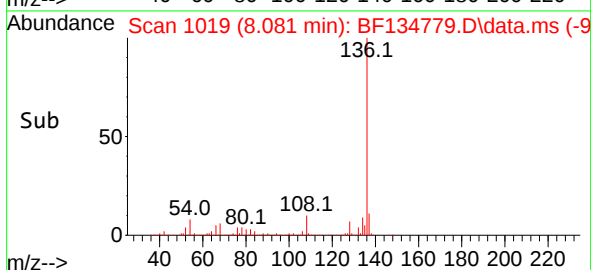
Reviewed By :Yogesh Patel 08/16/2023  
Supervised By :Sohil Jodhani 08/16/2023

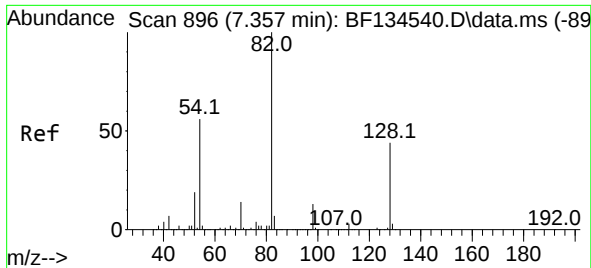


#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.081 min Scan# 1019  
Delta R.T. -0.000 min  
Lab File: BF134779.D  
Acq: 15 Aug 2023 11:24



Tgt Ion:136 Resp: 620027  
Ion Ratio Lower Upper  
136 100  
137 10.5 8.4 12.6  
54 7.8 5.2 7.8  
68 6.0 2.9 4.3





#23

Nitrobenzene-d5

Concen: 0.465 ng

RT: 7.351 min Scan# 896

Delta R.T. -0.018 min

Lab File: BF134779.D

Acq: 15 Aug 2023 11:24

Instrument :

BNA\_F

ClientSampleId :

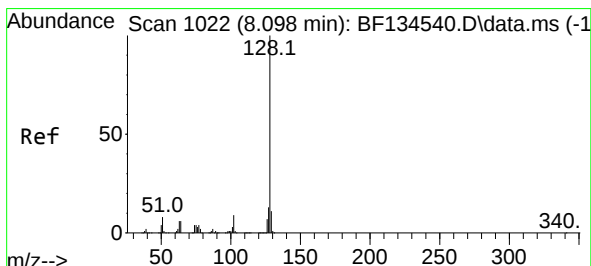
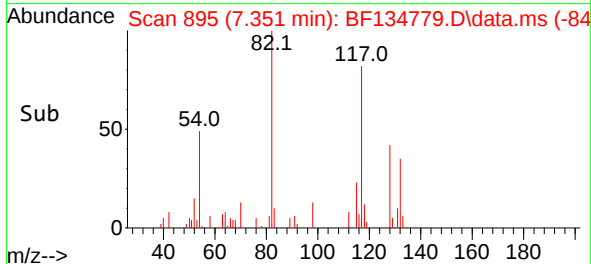
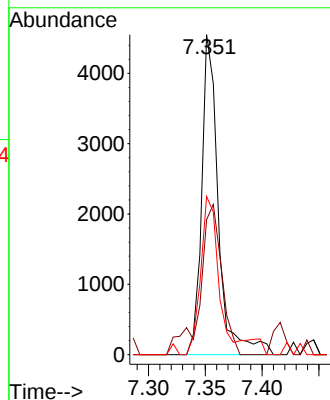
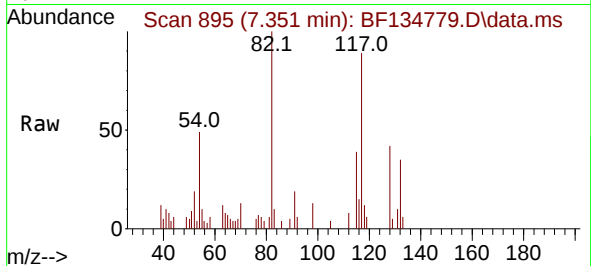
NEVINS-SB03-Z10-12-QDL

|             |                |
|-------------|----------------|
| Tgt Ion: 82 | Resp: 4610     |
| Ion Ratio   | Lower Upper    |
| 82          | 100            |
| 128         | 42.2 34.3 51.5 |
| 54          | 49.5 43.8 65.6 |

Manual Integrations

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Supervised By :Sohil Jodhani 08/16/2023



#31

Naphthalene

Concen: 73.982 ng

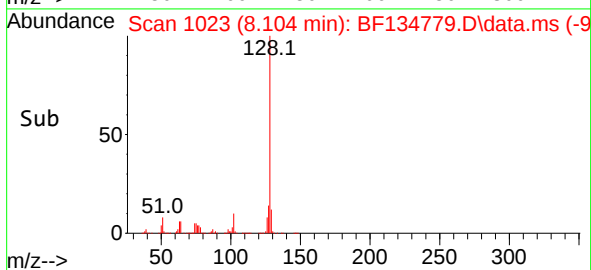
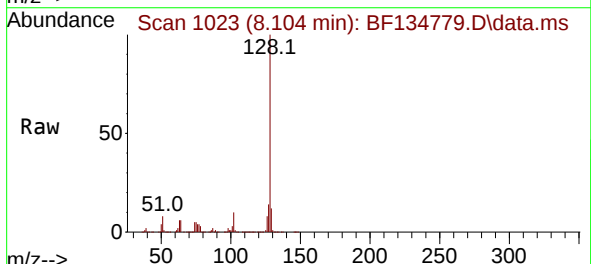
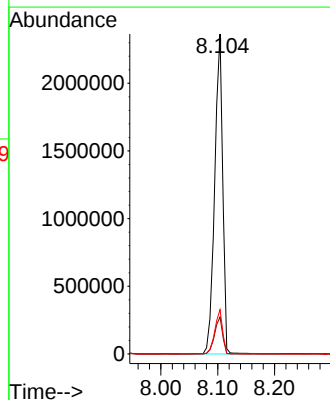
RT: 8.104 min Scan# 1023

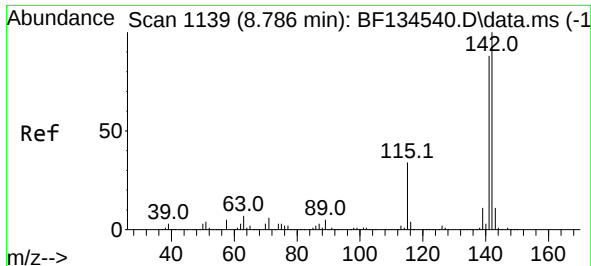
Delta R.T. -0.000 min

Lab File: BF134779.D

Acq: 15 Aug 2023 11:24

|             |                |
|-------------|----------------|
| Tgt Ion:128 | Resp: 2305382  |
| Ion Ratio   | Lower Upper    |
| 128         | 100            |
| 129         | 11.6 8.4 12.6  |
| 127         | 13.8 10.7 16.1 |





#37

2-Methylnaphthalene

Concen: 33.691 ng

RT: 8.792 min Scan# 1140

Delta R.T. -0.000 min

Lab File: BF134779.D

Acq: 15 Aug 2023 11:24

Instrument :

BNA\_F

ClientSampleId :

NEVINS-SB03-Z10-12-QDL

Tgt Ion:142 Resp: 69589

Ion Ratio Lower Upper

142 100

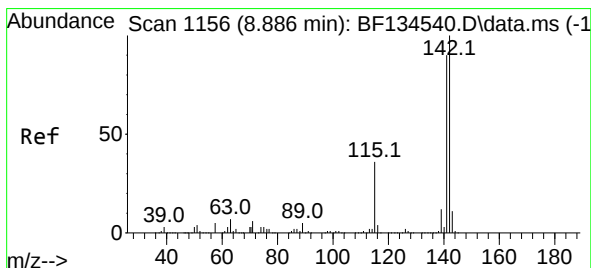
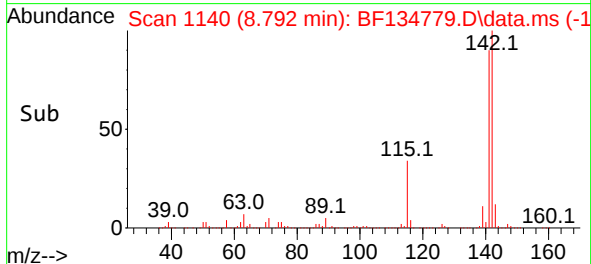
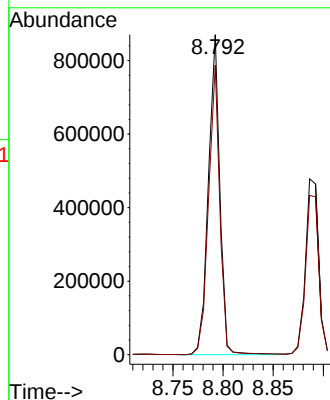
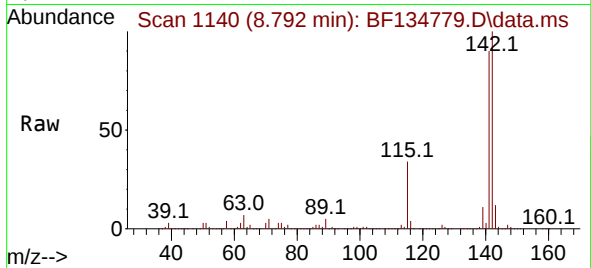
141 90.4 70.8 106.2

Manual Integrations

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#38

1-Methylnaphthalene

Concen: 22.868 ng

RT: 8.886 min Scan# 1156

Delta R.T. -0.006 min

Lab File: BF134779.D

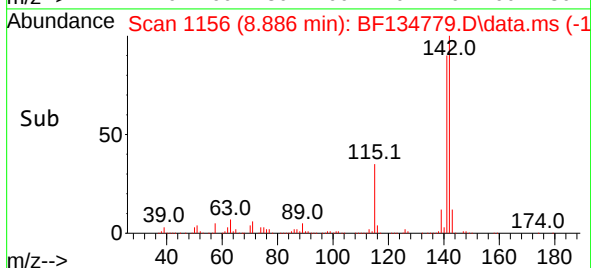
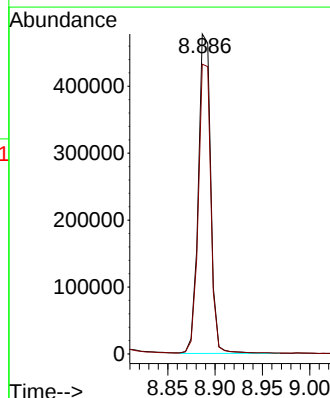
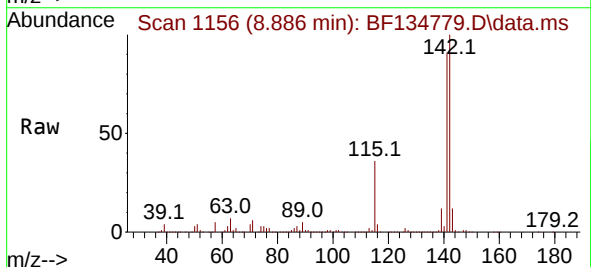
Acq: 15 Aug 2023 11:24

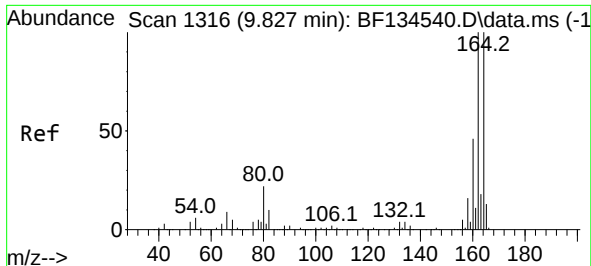
Tgt Ion:142 Resp: 439230

Ion Ratio Lower Upper

142 100

141 90.5 71.4 107.2





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.833 min Scan# 11

Delta R.T. -0.000 min

Lab File: BF134779.D

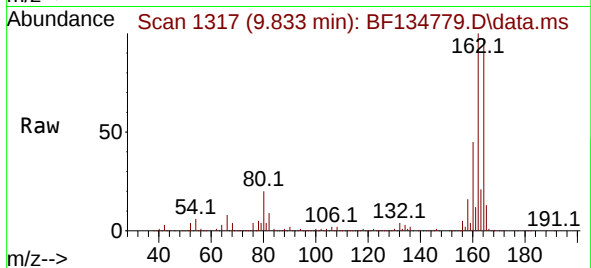
Acq: 15 Aug 2023 11:24

Instrument :

BNA\_F

ClientSampleId :

NEVINS-SB03-Z10-12-QDL



Tgt Ion:164 Resp: 33467

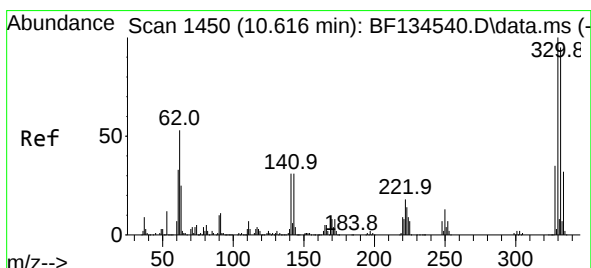
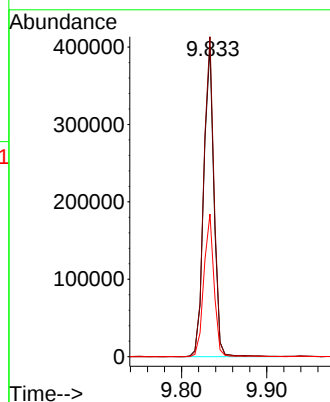
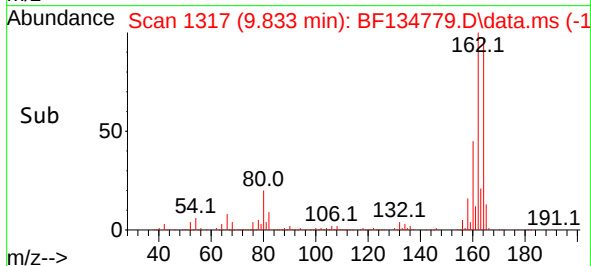
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 162 | 103.2 | 82.6  | 123.8 |
| 160 | 46.0  | 37.2  | 55.8  |

Manual Integrations

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#42

2,4,6-Tribromophenol

Concen: 0.562 ng

RT: 10.622 min Scan# 1451

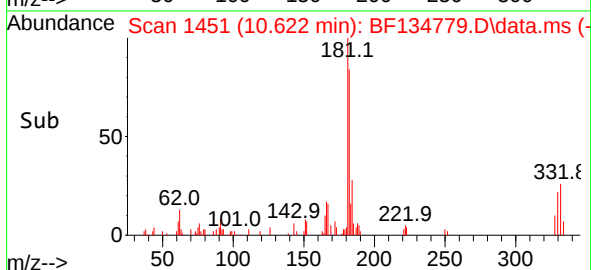
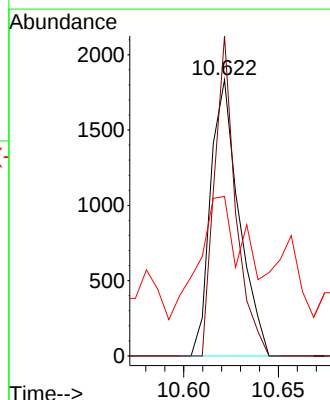
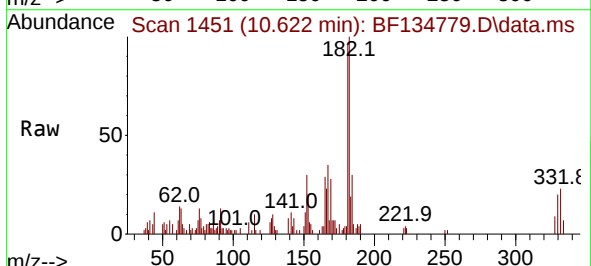
Delta R.T. -0.006 min

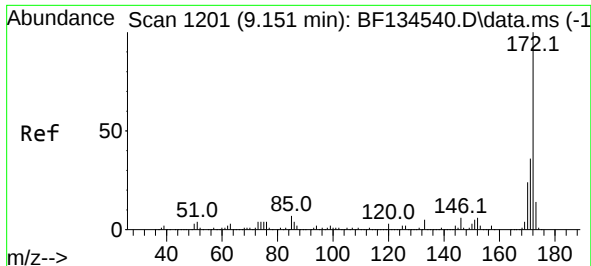
Lab File: BF134779.D

Acq: 15 Aug 2023 11:24

Tgt Ion:330 Resp: 1917

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 330 | 100   |       |       |
| 332 | 86.4  | 78.8  | 118.2 |
| 141 | 74.5  | 25.4  | 38.2  |





#45

2-Fluorobiphenyl

Concen: 0.627 ng

RT: 9.151 min Scan# 1201

Delta R.T. -0.012 min

Lab File: BF134779.D

Acq: 15 Aug 2023 11:24

Instrument :

BNA\_F

ClientSampleId :

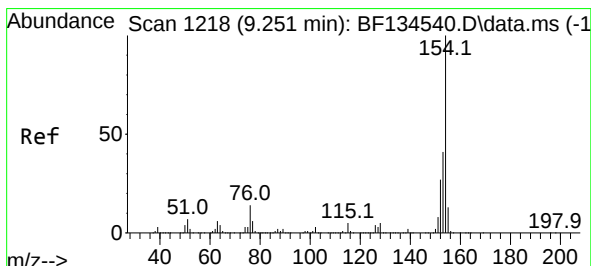
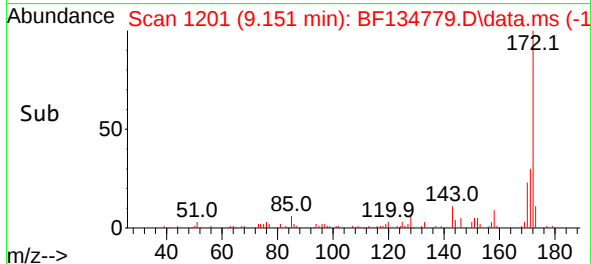
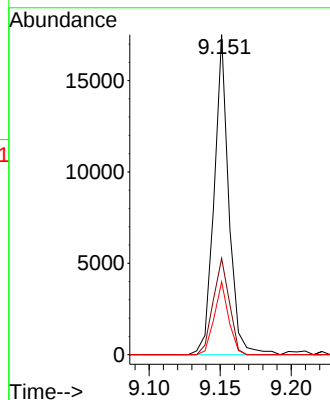
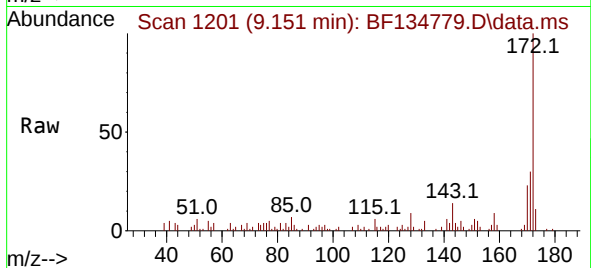
NEVINS-SB03-Z10-12-QDL

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:172 | Resp: | 1261      |
| Ion Ratio   | Lower | Upper     |
| 172         | 100   |           |
| 171         | 30.1  | 28.8 43.2 |
| 170         | 22.7  | 18.7 28.1 |

Manual Integrations

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Supervised By :Sohil Jodhani 08/16/2023



#46

1,1'-Biphenyl

Concen: 4.394 ng

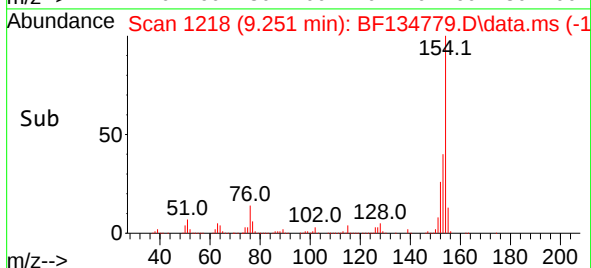
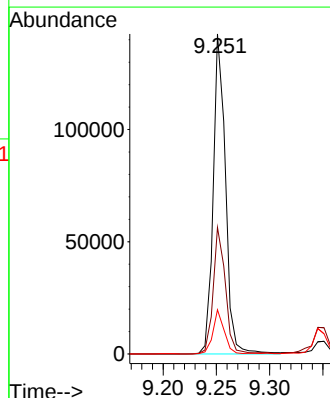
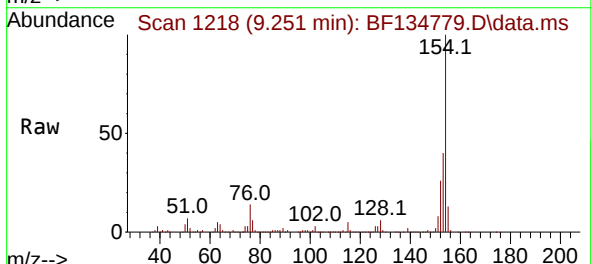
RT: 9.251 min Scan# 1218

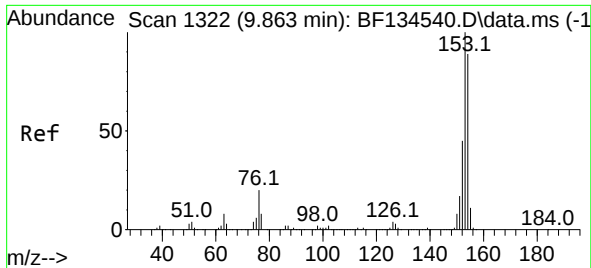
Delta R.T. -0.012 min

Lab File: BF134779.D

Acq: 15 Aug 2023 11:24

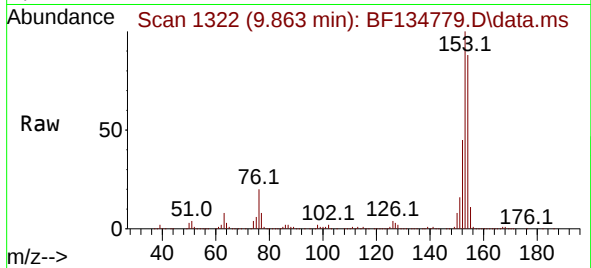
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:154 | Resp: | 114362    |
| Ion Ratio   | Lower | Upper     |
| 154         | 100   |           |
| 153         | 39.5  | 20.8 60.8 |
| 76          | 13.8  | 0.0 30.2  |





#52  
Acenaphthene  
Concen: 17.006 ng  
RT: 9.863 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: BF134779.D  
Acq: 15 Aug 2023 11:24

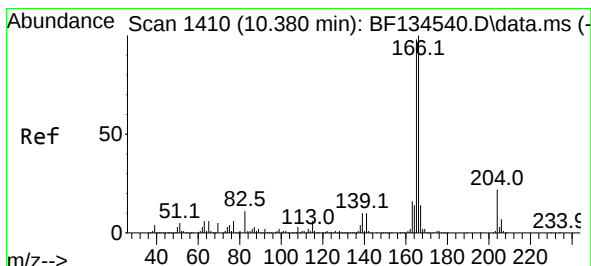
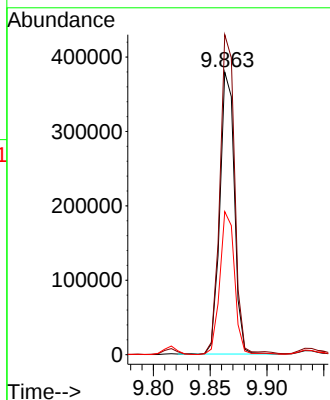
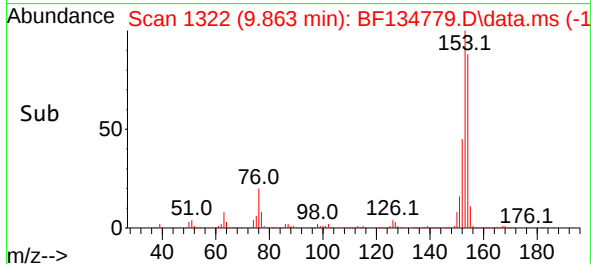
Instrument :  
BNA\_F  
ClientSampleId :  
NEVINS-SB03-Z10-12-QDL



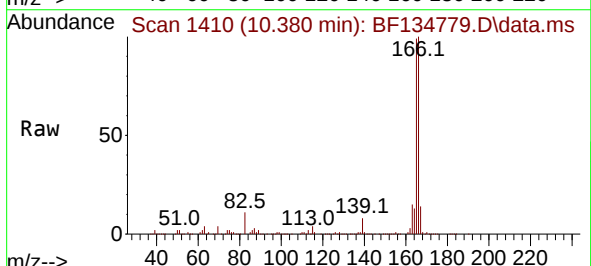
Tgt Ion:154 Resp: 33782  
Ion Ratio Lower Upper  
154 100  
153 113.2 90.0 135.0  
152 50.6 42.4 63.6

Manual Integrations  
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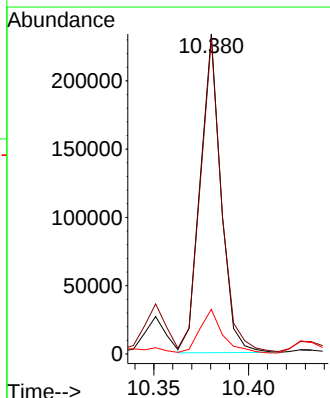
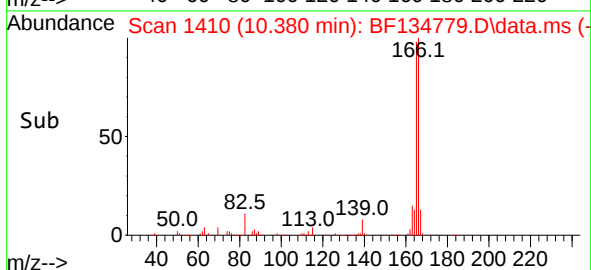
Reviewed By :Yogesh Patel 08/16/2023  
Supervised By :Sohil Jodhani 08/16/2023

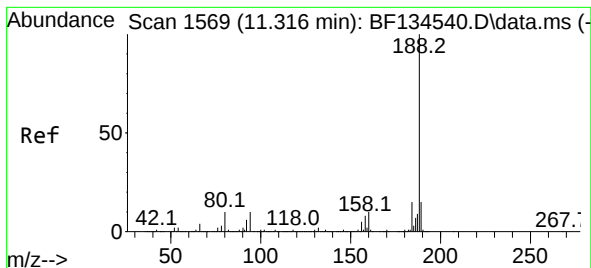


#58  
Fluorene  
Concen: 8.618 ng  
RT: 10.380 min Scan# 1410  
Delta R.T. -0.006 min  
Lab File: BF134779.D  
Acq: 15 Aug 2023 11:24



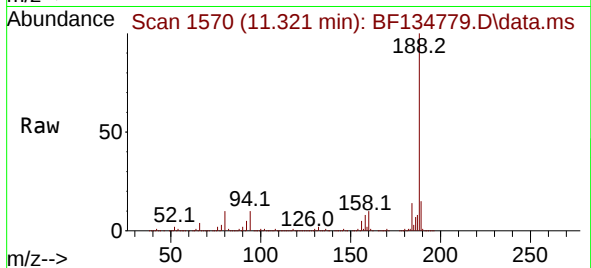
Tgt Ion:166 Resp: 177510  
Ion Ratio Lower Upper  
166 100  
165 98.5 74.5 111.7  
167 13.9 10.6 16.0





#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.321 min Scan# 1569  
Delta R.T. -0.000 min  
Lab File: BF134779.D  
Acq: 15 Aug 2023 11:24

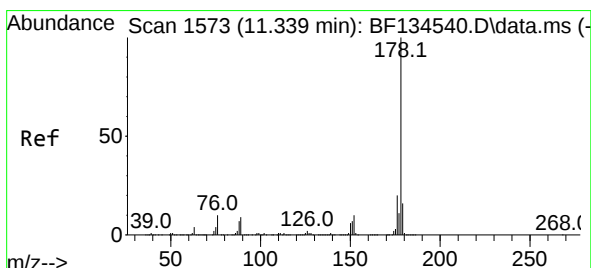
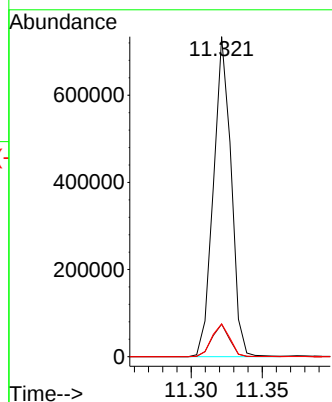
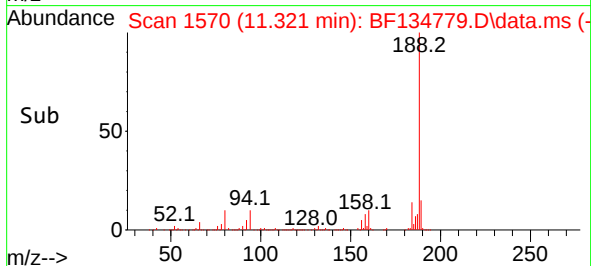
Instrument :  
BNA\_F  
ClientSampleId :  
NEVINS-SB03-Z10-12-QDL



Tgt Ion:188 Resp: 637035  
Ion Ratio Lower Upper  
188 100  
94 10.1 5.1 7.7  
80 10.2 6.6 9.8

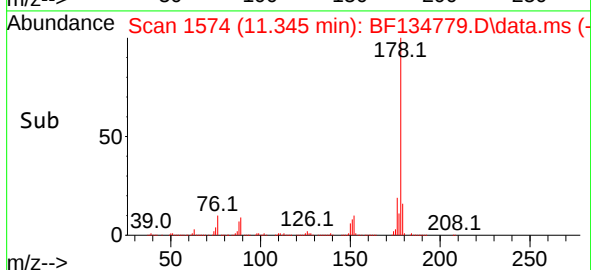
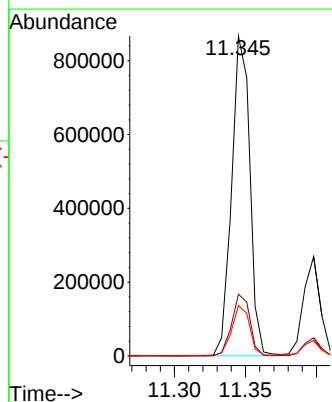
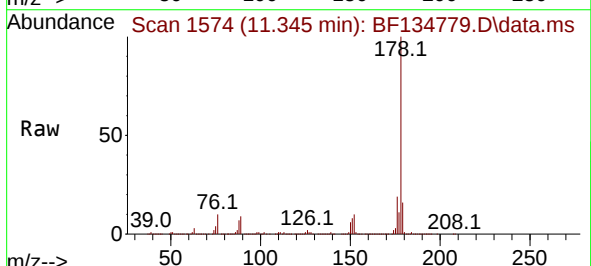
Manual Integrations  
APPROVED

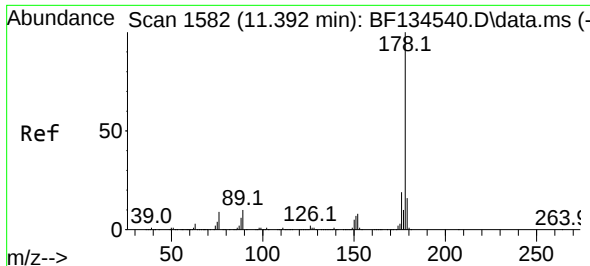
Reviewed By :Yogesh Patel 08/16/2023  
Supervised By :Sohil Jodhani 08/16/2023



#71  
Phenanthrene  
Concen: 22.864 ng  
RT: 11.345 min Scan# 1574  
Delta R.T. -0.006 min  
Lab File: BF134779.D  
Acq: 15 Aug 2023 11:24

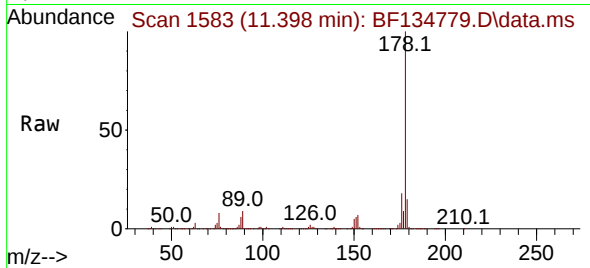
Tgt Ion:178 Resp: 773636  
Ion Ratio Lower Upper  
178 100  
176 19.3 15.8 23.6  
179 15.7 12.7 19.1





#72  
 Anthracene  
 Concen: 6.196 ng  
 RT: 11.398 min Scan# 1582  
 Delta R.T. -0.006 min  
 Lab File: BF134779.D  
 Acq: 15 Aug 2023 11:24

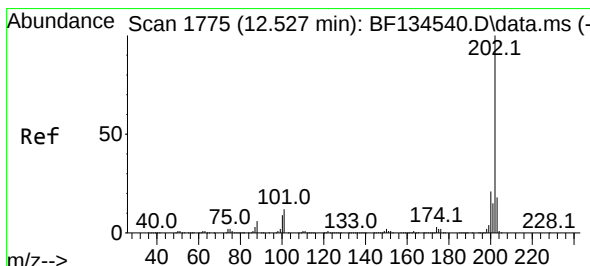
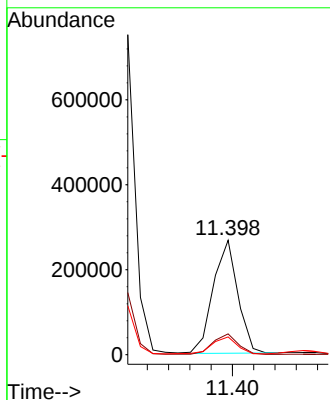
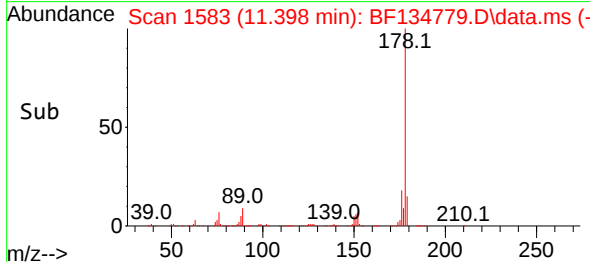
Instrument :  
 BNA\_F  
 ClientSampleId :  
 NEVINS-SB03-Z10-12-QDL



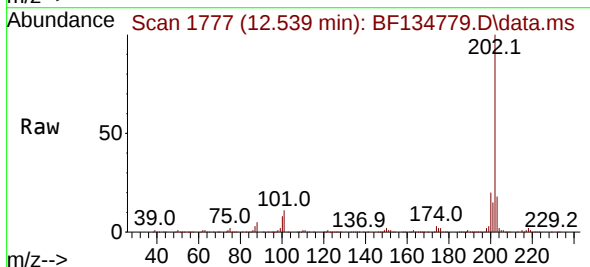
Tgt Ion:178 Resp: 214138  
 Ion Ratio Lower Upper  
 178 100  
 176 18.2 14.6 21.8  
 179 15.5 12.3 18.5

Manual Integrations  
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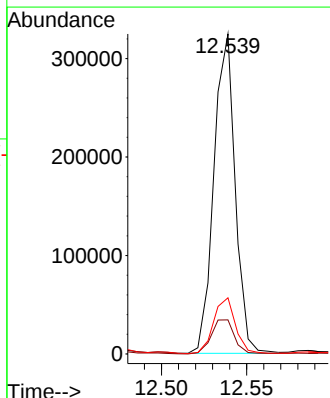
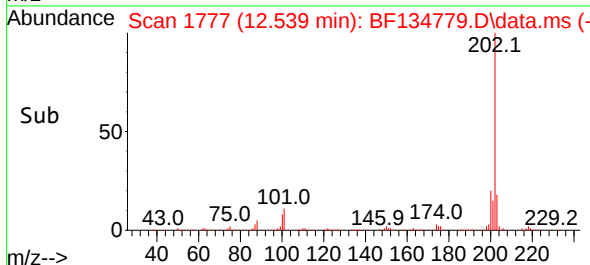
Reviewed By :Yogesh Patel 08/16/2023  
 Supervised By :Sohil Jodhani 08/16/2023

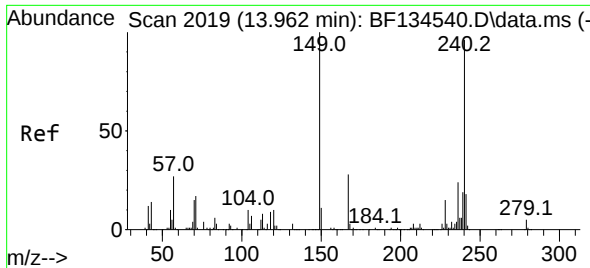


#75  
 Fluoranthene  
 Concen: 7.887 ng  
 RT: 12.539 min Scan# 1777  
 Delta R.T. -0.000 min  
 Lab File: BF134779.D  
 Acq: 15 Aug 2023 11:24



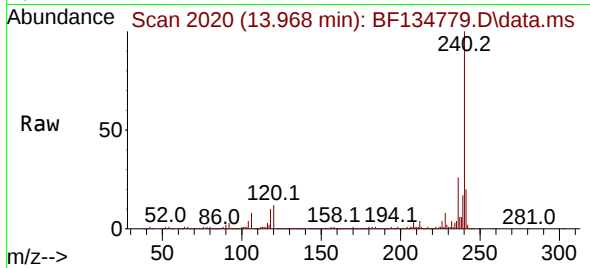
Tgt Ion:202 Resp: 281886  
 Ion Ratio Lower Upper  
 202 100  
 101 10.7 0.0 28.5  
 203 17.6 0.0 37.5





#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 13.968 min Scan# 2019  
Delta R.T. -0.006 min  
Lab File: BF134779.D  
Acq: 15 Aug 2023 11:24

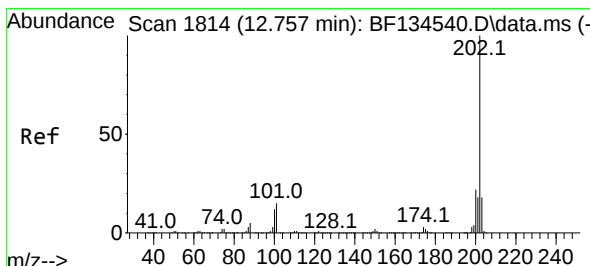
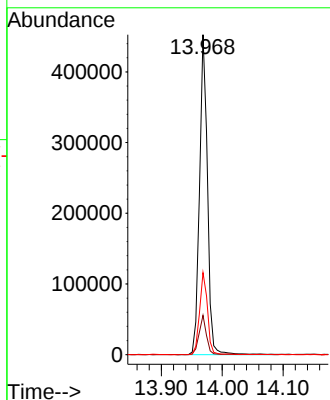
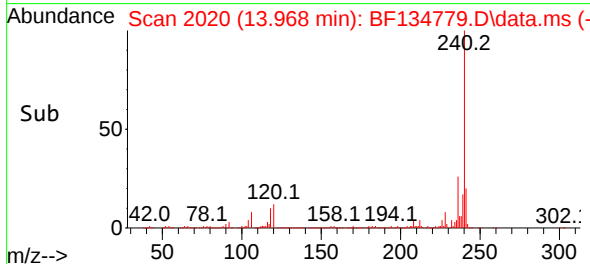
Instrument :  
BNA\_F  
ClientSampleId :  
NEVINS-SB03-Z10-12-QDL



Tgt Ion:240 Resp: 407493  
Ion Ratio Lower Upper  
240 100  
120 12.3 6.6 10.0  
236 25.6 20.2 30.2

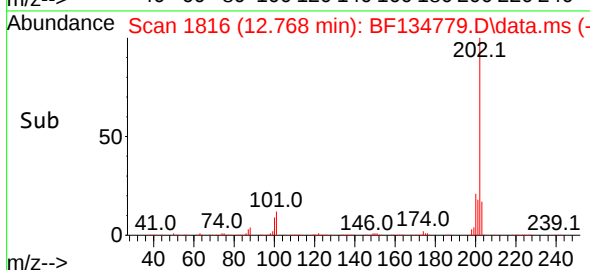
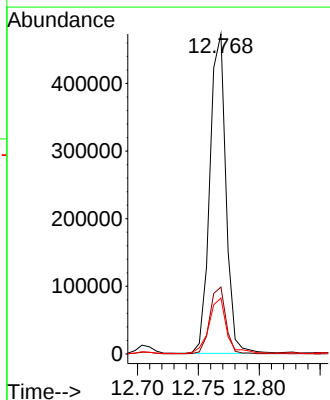
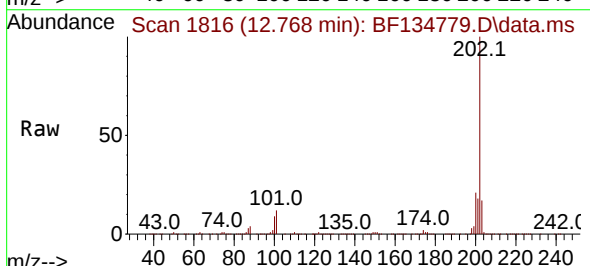
Manual Integrations  
APPROVED

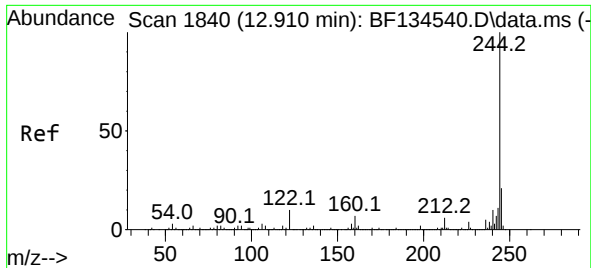
Reviewed By :Yogesh Patel 08/16/2023  
Supervised By :Sohil Jodhani 08/16/2023



#78  
Pyrene  
Concen: 12.282 ng  
RT: 12.768 min Scan# 1816  
Delta R.T. -0.000 min  
Lab File: BF134779.D  
Acq: 15 Aug 2023 11:24

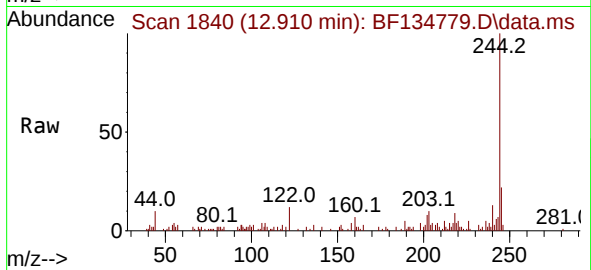
Tgt Ion:202 Resp: 433079  
Ion Ratio Lower Upper  
202 100  
200 20.9 15.8 23.8  
203 17.5 13.5 20.3





#79  
 Terphenyl-d14  
 Concen: 0.660 ng  
 RT: 12.910 min Scan# 11  
 Delta R.T. -0.012 min  
 Lab File: BF134779.D  
 Acq: 15 Aug 2023 11:24

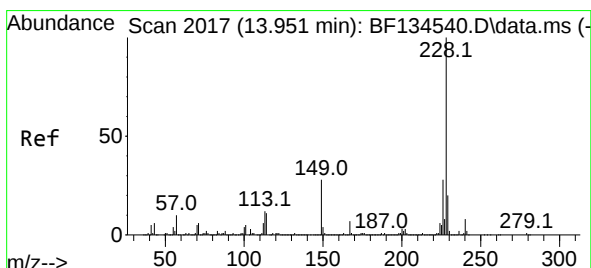
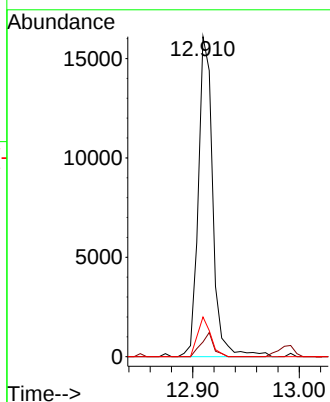
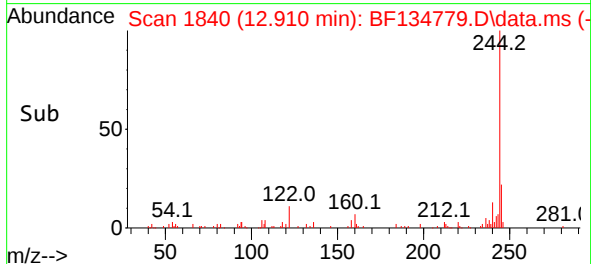
Instrument :  
 BNA\_F  
 ClientSampleId :  
 NEVINS-SB03-Z10-12-QDL



Tgt Ion:244 Resp: 1525  
 Ion Ratio Lower Upper  
 244 100  
 212 4.6 5.6 8.4  
 122 12.4 8.0 12.0

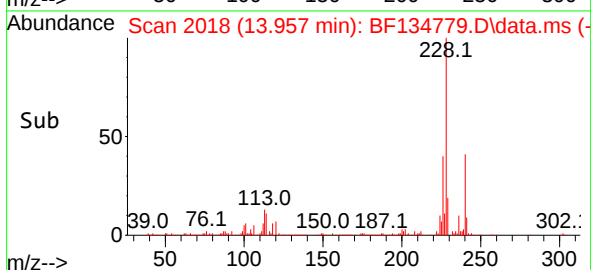
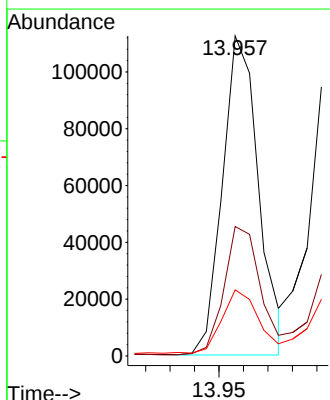
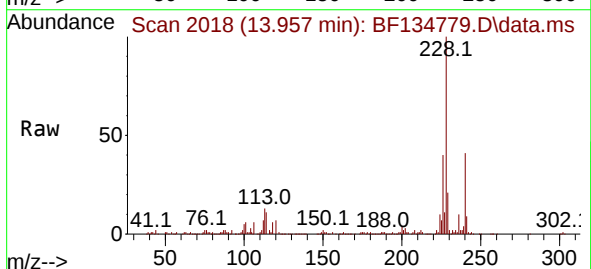
Manual Integrations  
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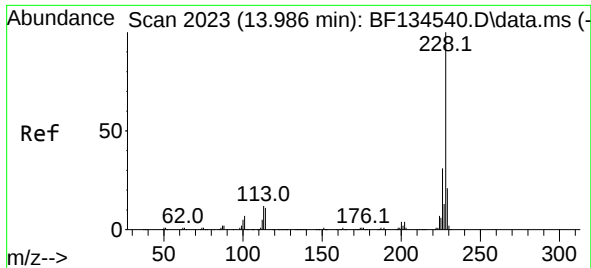
Reviewed By :Yogesh Patel 08/16/2023  
 Supervised By :Sohil Jodhani 08/16/2023



#81  
 Benzo(a)anthracene  
 Concen: 3.955 ng m  
 RT: 13.957 min Scan# 2018  
 Delta R.T. -0.006 min  
 Lab File: BF134779.D  
 Acq: 15 Aug 2023 11:24

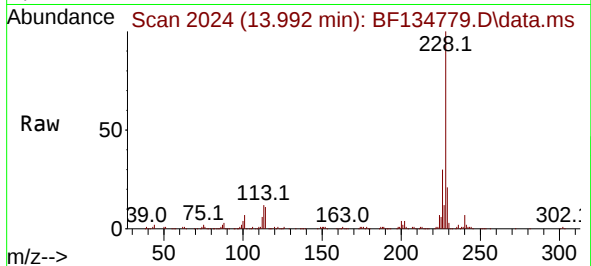
Tgt Ion:228 Resp: 115253  
 Ion Ratio Lower Upper  
 228 100  
 226 40.5 22.3 33.5  
 229 20.7 15.8 23.6





#83  
Chrysene  
Concen: 3.505 ng  
RT: 13.992 min Scan# 20  
Delta R.T. -0.006 min  
Lab File: BF134779.D  
Acq: 15 Aug 2023 11:24

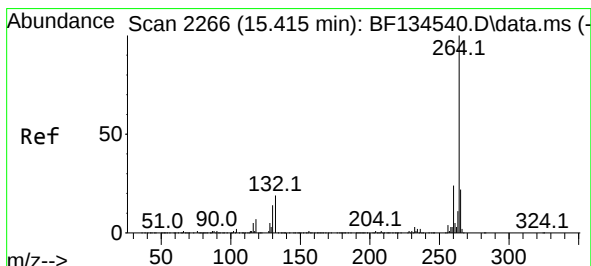
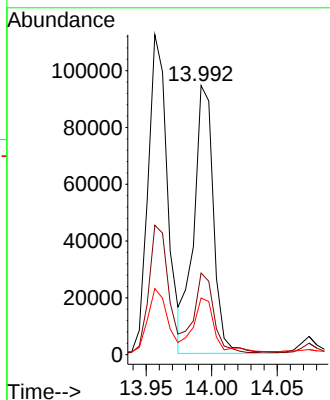
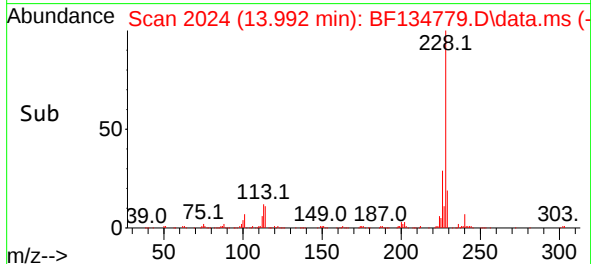
Instrument :  
BNA\_F  
ClientSampleId :  
NEVINS-SB03-Z10-12-QDL



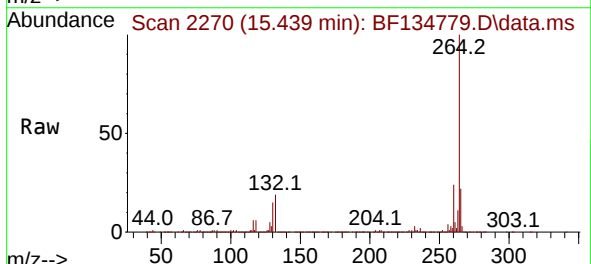
Tgt Ion:228 Resp: 9948  
Ion Ratio Lower Upper  
228 100  
226 30.3 24.5 36.7  
229 21.1 15.8 23.8

Manual Integrations  
APPROVED

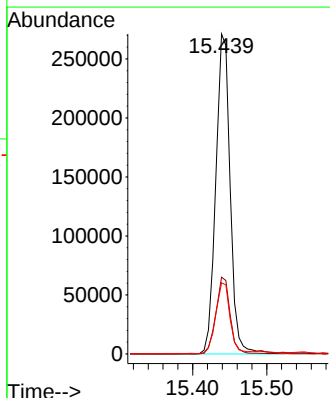
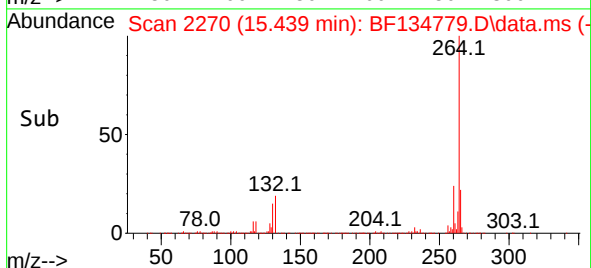
Reviewed By :Yogesh Patel 08/16/2023  
Supervised By :Sohil Jodhani 08/16/2023

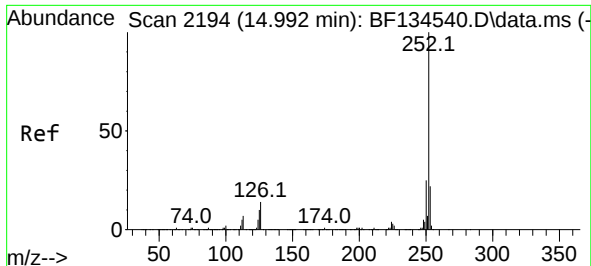


#86  
Perylene-d12  
Concen: 20.000 ng  
RT: 15.439 min Scan# 2270  
Delta R.T. -0.000 min  
Lab File: BF134779.D  
Acq: 15 Aug 2023 11:24



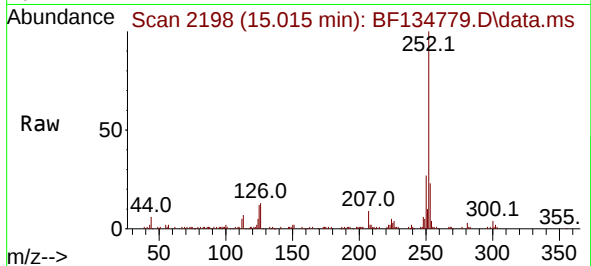
Tgt Ion:264 Resp: 365569  
Ion Ratio Lower Upper  
264 100  
260 24.0 18.4 27.6  
265 22.2 15.8 23.8





#88  
Benzo(b)fluoranthene  
Concen: 2.706 ng m  
RT: 15.015 min Scan# 2194  
Delta R.T. 0.006 min  
Lab File: BF134779.D  
Acq: 15 Aug 2023 11:24

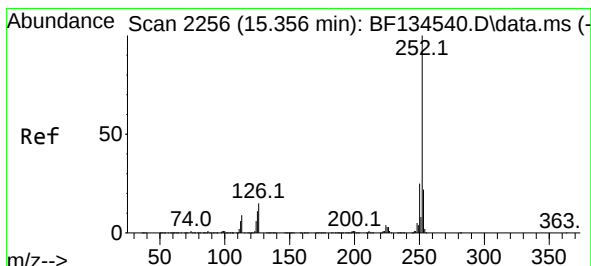
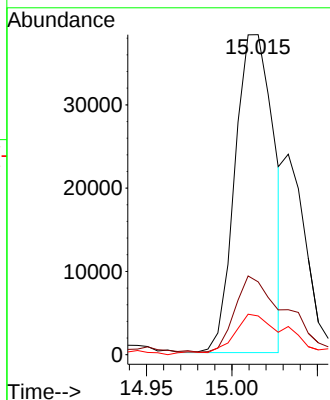
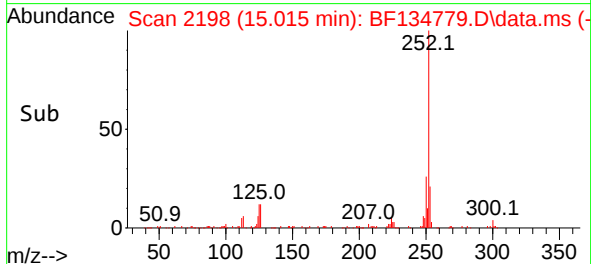
Instrument :  
BNA\_F  
ClientSampleId :  
NEVINS-SB03-Z10-12-QDL



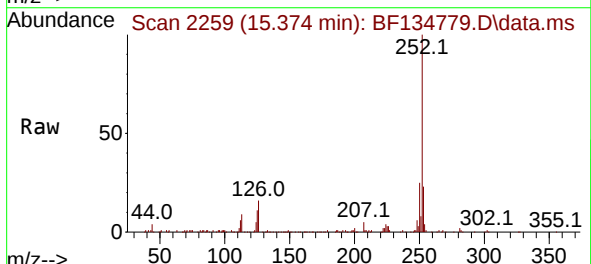
Tgt Ion:252 Resp: 6032  
Ion Ratio Lower Upper  
252 100  
253 22.8 17.3 25.9  
125 12.1 6.0 9.0

Manual Integrations  
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Reviewed By :Yogesh Patel 08/16/2023  
Supervised By :Sohil Jodhani 08/16/2023



#90  
Benzo(a)pyrene  
Concen: 3.763 ng  
RT: 15.374 min Scan# 2259  
Delta R.T. -0.006 min  
Lab File: BF134779.D  
Acq: 15 Aug 2023 11:24



Tgt Ion:252 Resp: 78219  
Ion Ratio Lower Upper  
252 100  
253 22.9 17.0 25.4  
125 10.8 6.2 9.4

