

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF030123\  
 Data File : BF132589.D  
 Acq On : 01 Mar 2023 14:04  
 Operator : CG\JU  
 Sample : 01724-01  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 RBR53-VNJ201

Manual Integrations  
 APPROVED

Reviewed By :Yogesh Patel 03/02/2023  
 Supervised By :Jagrut Upadhyay 03/02/2023

Quant Time: Mar 02 03:16:32 2023  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF022223.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Feb 24 23:17:30 2023  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|--------|------|----------|--------|-------|----------|
| -----                       |        |      |          |        |       |          |
| Internal Standards          |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.004  | 152  | 225398   | 20.000 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.286  | 136  | 827224   | 20.000 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 10.045 | 164  | 426402   | 20.000 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.545 | 188  | 713698   | 20.000 | ng    | 0.00     |
| 76) Chrysene-d12            | 14.198 | 240  | 414593   | 20.000 | ng    | # 0.00   |
| 86) Perylene-d12            | 15.751 | 264  | 490086   | 20.000 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| System Monitoring Compounds |        |      |          |        |       |          |
| 5) 2-Fluorophenol           | 5.634  | 112  | 1187916  | 85.535 | ng    | 0.00     |
| 7) Phenol-d6                | 6.628  | 99   | 1509071  | 83.259 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.563  | 82   | 974386   | 55.885 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.839 | 330  | 354375   | 76.955 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.363  | 172  | 1589305  | 56.753 | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.133 | 244  | 1456995  | 59.418 | ng    | 0.00     |
|                             |        |      |          |        |       |          |
| Target Compounds            |        |      |          |        |       | Qvalue   |
| 71) Phenanthrene            | 11.569 | 178  | 315342   | 8.529  | ng    | 97       |
| 75) Fluoranthene            | 12.763 | 202  | 590442   | 14.608 | ng    | 99       |
| 78) Pyrene                  | 12.998 | 202  | 549858   | 14.587 | ng    | 98       |
| 81) Benzo(a)anthracene      | 14.186 | 228  | 273996   | 8.833  | ng    | 97       |
| 83) Chrysene                | 14.227 | 228  | 254317   | 8.767  | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 17.345 | 276  | 169956   | 5.292  | ng    | 98       |
| 88) Benzo(b)fluoranthene    | 15.286 | 252  | 348790m  | 10.620 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.315 | 252  | 128988m  | 4.013  | ng    |          |
| 90) Benzo(a)pyrene          | 15.680 | 252  | 273071   | 8.884  | ng    | 97       |
| 92) Benzo(g,h,i)perylene    | 17.833 | 276  | 169710   | 7.161  | ng    | 98       |
| -----                       |        |      |          |        |       |          |

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

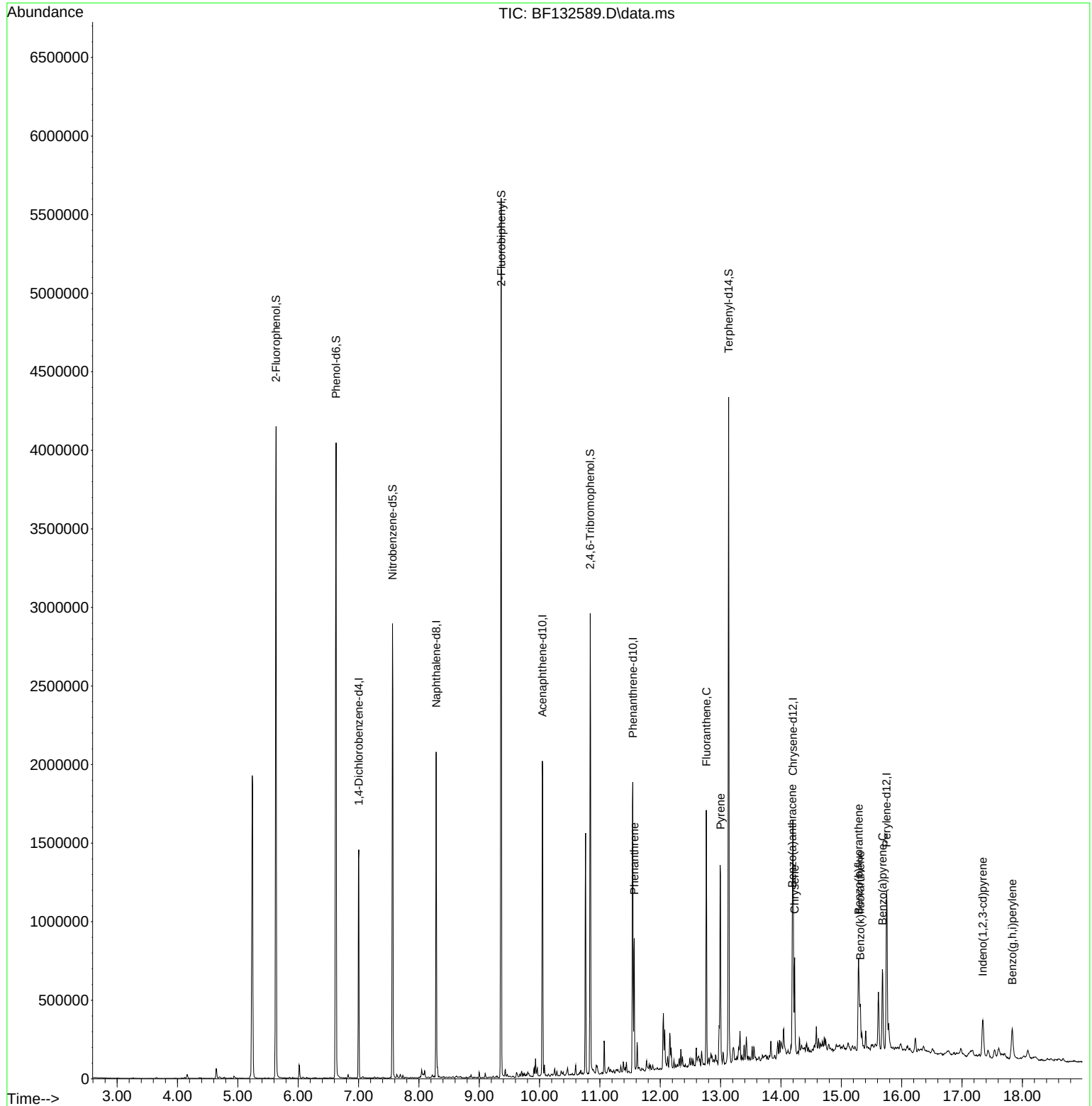
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF030123\  
Data File : BF132589.D  
Acq On : 01 Mar 2023 14:04  
Operator : CG\JU  
Sample : 01724-01  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

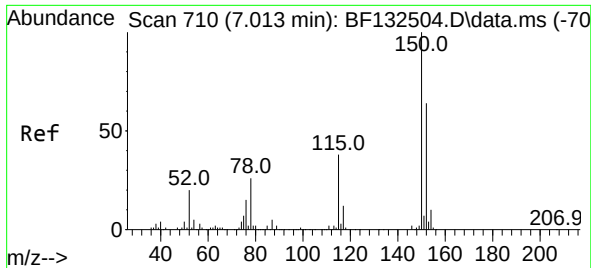
Instrument :  
BNA\_F  
ClientSampleId :  
RBR53-VNJ201

Manual Integrations  
APPROVED

Reviewed By :Yogesh Patel 03/02/2023  
Supervised By :Jagrut Upadhyay 03/02/2023

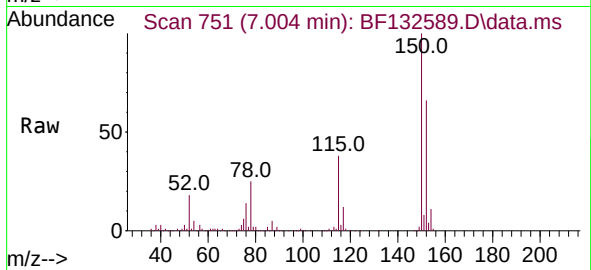
Quant Time: Mar 02 03:16:32 2023  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF022223.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Feb 24 23:17:30 2023  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.000 ng  
RT: 7.004 min Scan# 710  
Delta R.T. -0.003 min  
Lab File: BF132589.D  
Acq: 01 Mar 2023 14:04

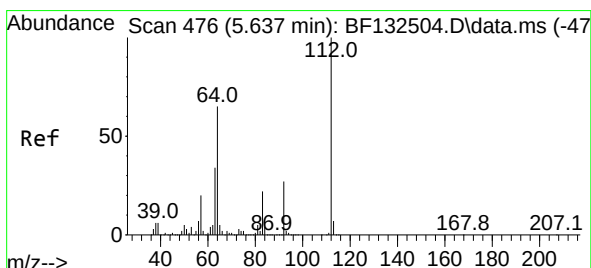
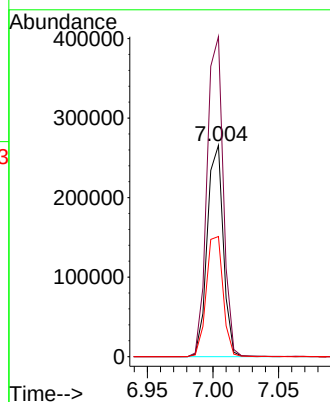
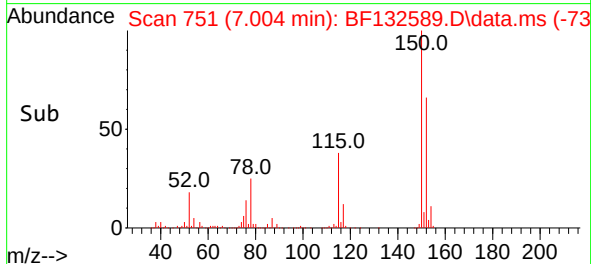
Instrument :  
BNA\_F  
ClientSampleId :  
RBR53-VNJ201



Tgt Ion:152 Resp: 225398  
Ion Ratio Lower Upper  
152 100  
150 151.5 125.4 188.2  
115 56.9 47.8 71.6

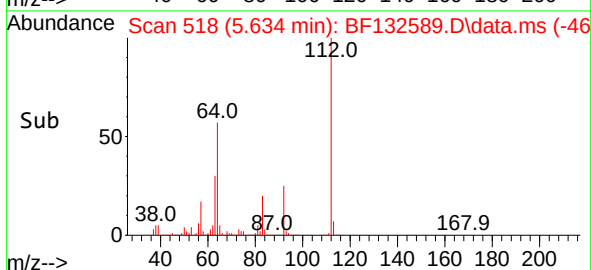
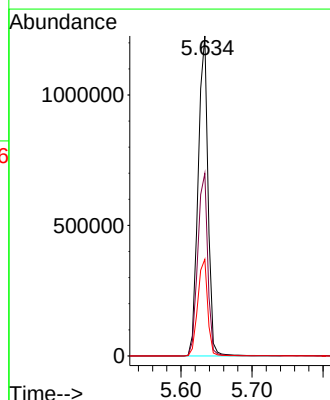
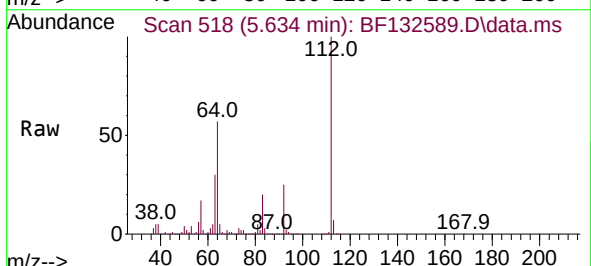
Manual Integrations  
APPROVED

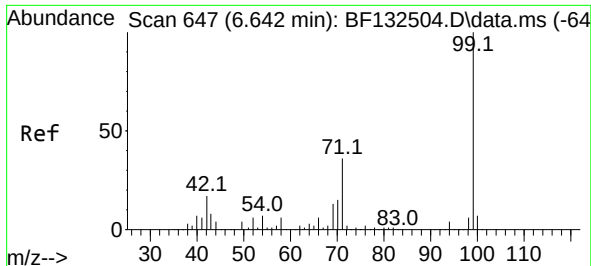
Reviewed By :Yogesh Patel 03/02/2023  
Supervised By :Jagrut Upadhyay 03/02/2023



#5  
2-Fluorophenol  
Concen: 85.535 ng  
RT: 5.634 min Scan# 518  
Delta R.T. 0.003 min  
Lab File: BF132589.D  
Acq: 01 Mar 2023 14:04

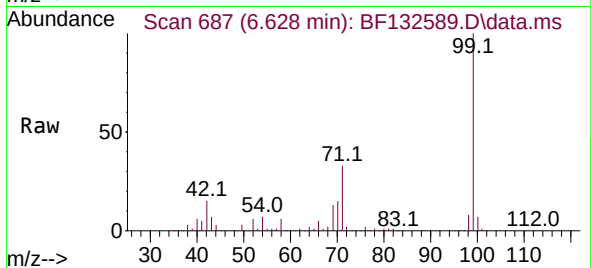
Tgt Ion:112 Resp: 1187916  
Ion Ratio Lower Upper  
112 100  
64 57.0 51.6 77.4  
63 30.2 27.4 41.2





#7  
Phenol-d6  
Concen: 83.259 ng  
RT: 6.628 min Scan# 687  
Delta R.T. -0.009 min  
Lab File: BF132589.D  
Acq: 01 Mar 2023 14:04

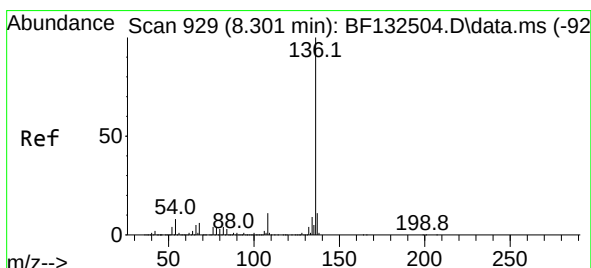
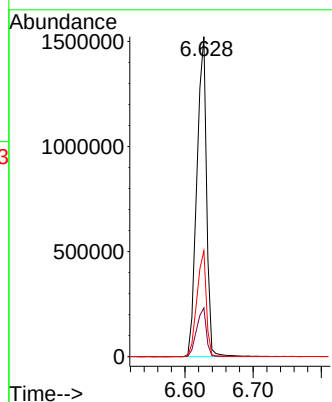
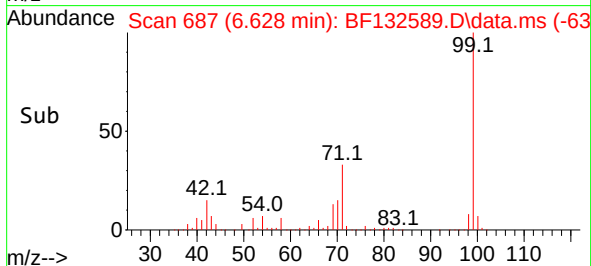
Instrument :  
BNA\_F  
ClientSampleId :  
RBR53-VNJ201



Tgt Ion: 99 Resp: 1509071  
Ion Ratio Lower Upper  
99 100  
42 15.2 13.9 20.9  
71 33.1 28.5 42.7

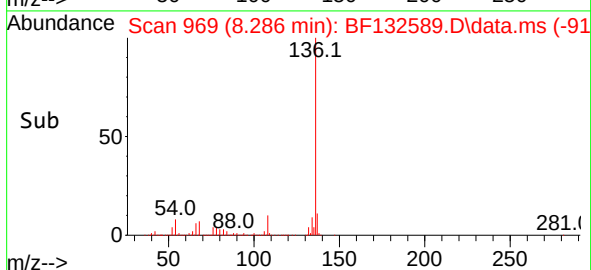
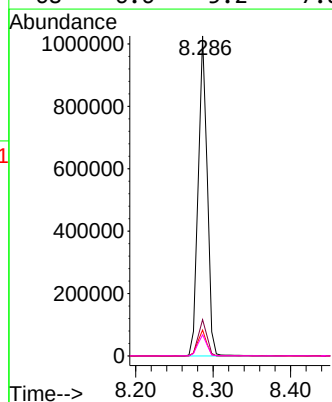
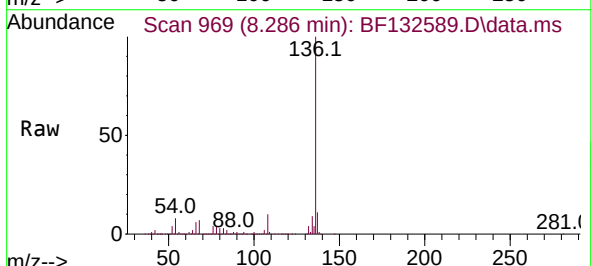
Manual Integrations  
APPROVED

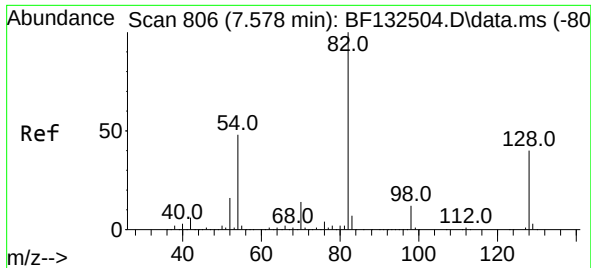
Reviewed By :Yogesh Patel 03/02/2023  
Supervised By :Jagrut Upadhyay 03/02/2023



#21  
Naphthalene-d8  
Concen: 20.000 ng  
RT: 8.286 min Scan# 969  
Delta R.T. -0.003 min  
Lab File: BF132589.D  
Acq: 01 Mar 2023 14:04

Tgt Ion:136 Resp: 827224  
Ion Ratio Lower Upper  
136 100  
137 11.3 8.9 13.3  
54 8.1 6.2 9.4  
68 6.6 5.2 7.8





#23

Nitrobenzene-d5

Concen: 55.885 ng

RT: 7.563 min Scan# 84

Delta R.T. -0.009 min

Lab File: BF132589.D

Acq: 01 Mar 2023 14:04

Instrument :

BNA\_F

ClientSampleId :

RBR53-VNJ201

Tgt Ion: 82 Resp: 974386

Ion Ratio Lower Upper

82 100

128 41.6 32.2 48.2

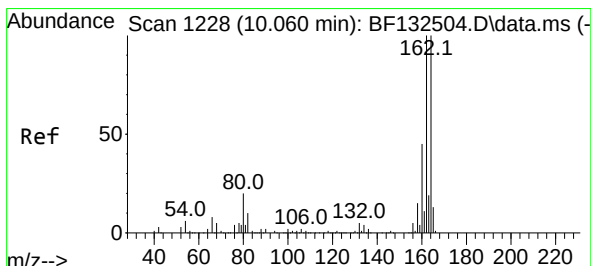
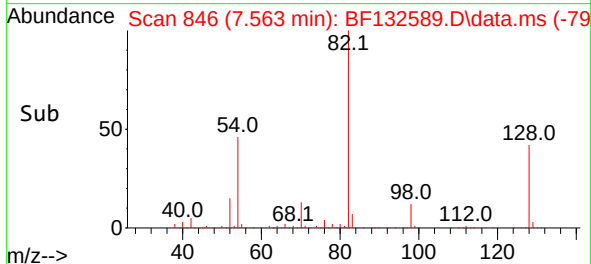
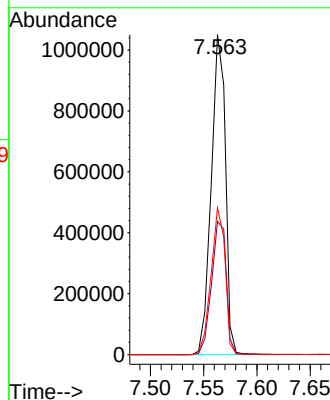
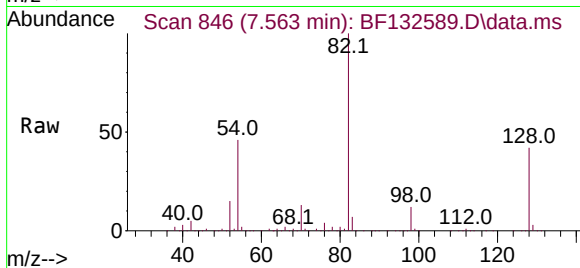
54 45.9 38.4 57.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 03/02/2023

Supervised By :Jagrut Upadhyay 03/02/2023



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.045 min Scan# 1268

Delta R.T. -0.009 min

Lab File: BF132589.D

Acq: 01 Mar 2023 14:04

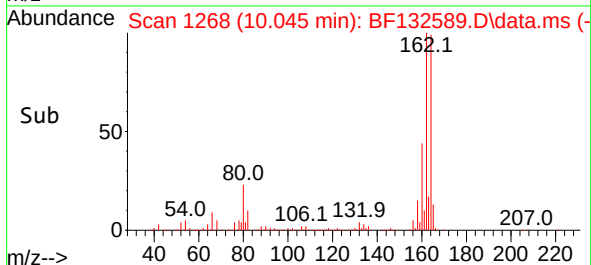
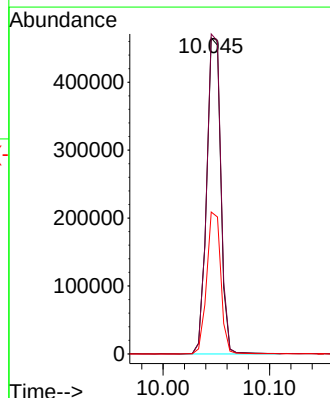
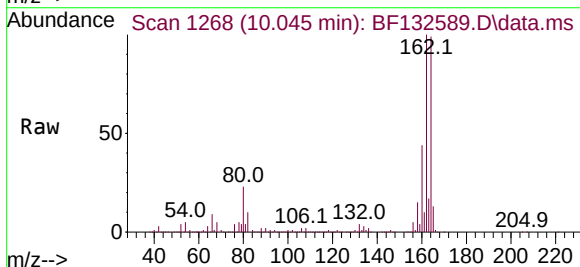
Tgt Ion:164 Resp: 426402

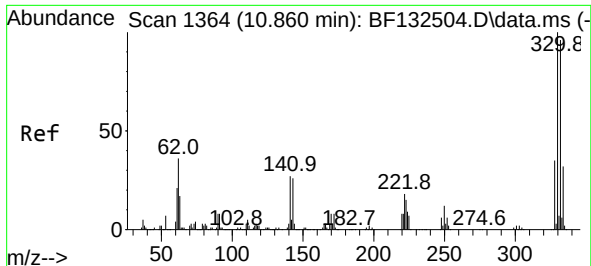
Ion Ratio Lower Upper

164 100

162 101.3 79.8 119.8

160 44.9 35.8 53.6





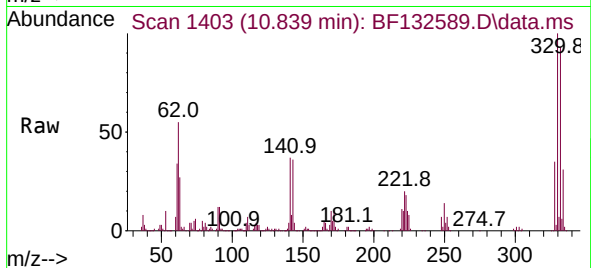
#42  
2,4,6-Tribromophenol  
Concen: 76.955 ng  
RT: 10.839 min Scan# 1403  
Delta R.T. -0.009 min  
Lab File: BF132589.D  
Acq: 01 Mar 2023 14:04

Instrument :

BNA\_F

ClientSampleId :

RBR53-VNJ201



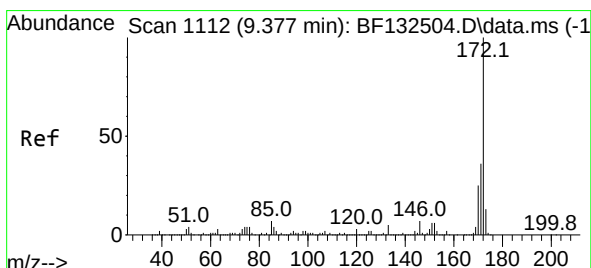
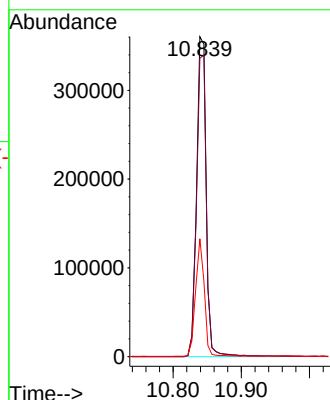
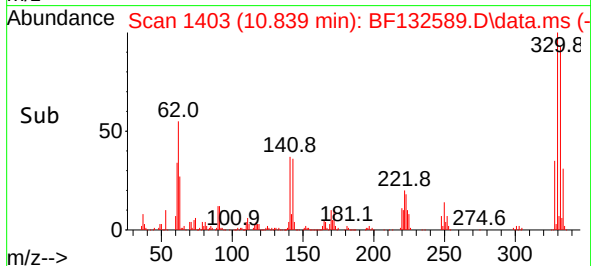
Tgt Ion:330 Resp: 354375  
Ion Ratio Lower Upper  
330 100  
332 95.6 76.2 114.4  
141 33.5 28.4 42.6

Manual Integrations

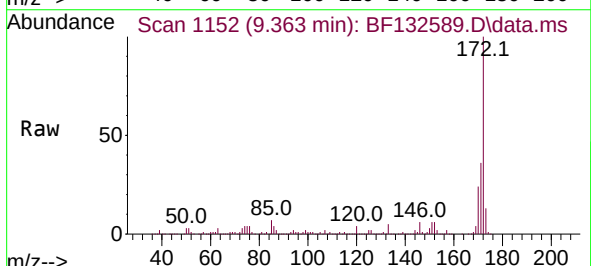
APPROVED

Reviewed By :Yogesh Patel 03/02/2023

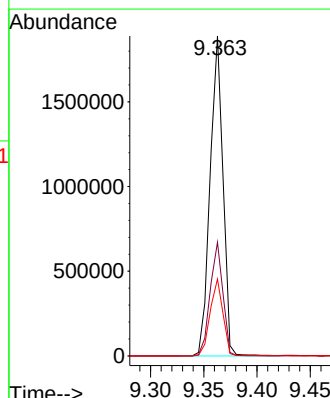
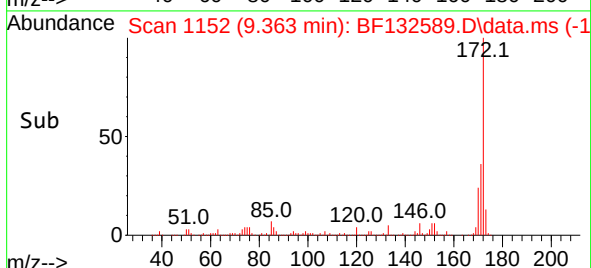
Supervised By :Jagrut Upadhyay 03/02/2023

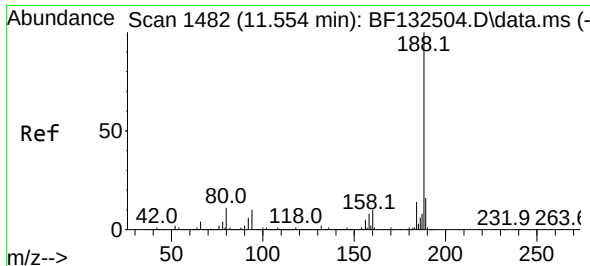


#45  
2-Fluorobiphenyl  
Concen: 56.753 ng  
RT: 9.363 min Scan# 1152  
Delta R.T. -0.009 min  
Lab File: BF132589.D  
Acq: 01 Mar 2023 14:04



Tgt Ion:172 Resp: 1589305  
Ion Ratio Lower Upper  
172 100  
171 35.6 28.8 43.2  
170 24.0 19.7 29.5





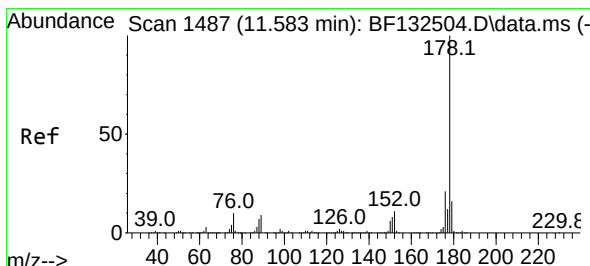
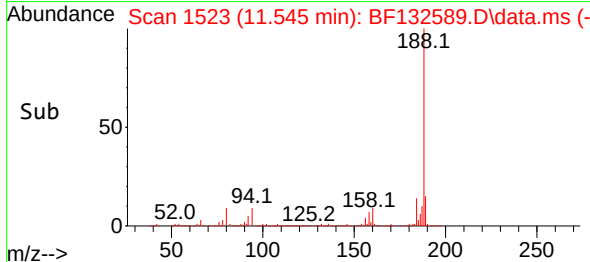
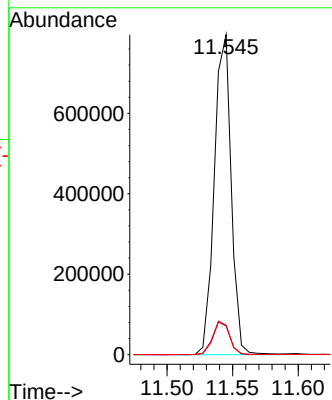
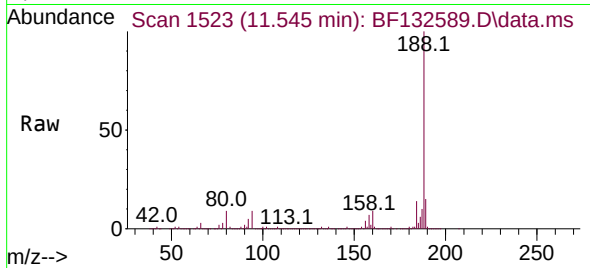
#64  
Phenanthrene-d10  
Concen: 20.000 ng  
RT: 11.545 min Scan# 11  
Delta R.T. -0.003 min  
Lab File: BF132589.D  
Acq: 01 Mar 2023 14:04

Instrument :  
BNA\_F  
ClientSampleId :  
RBR53-VNJ201

Tgt Ion:188 Resp: 713698  
Ion Ratio Lower Upper  
188 100  
94 8.9 8.3 12.5  
80 9.3 8.7 13.1

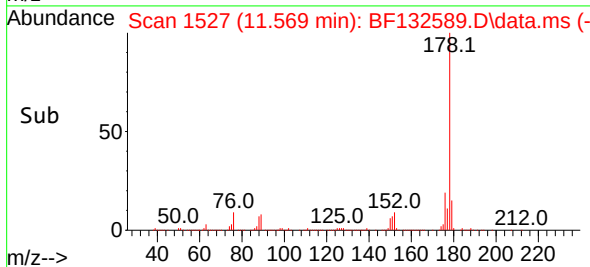
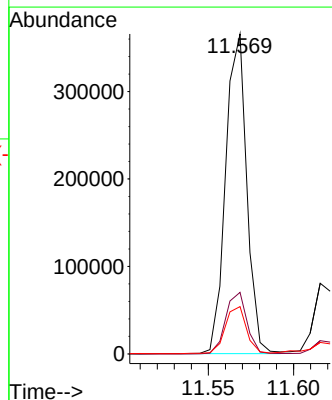
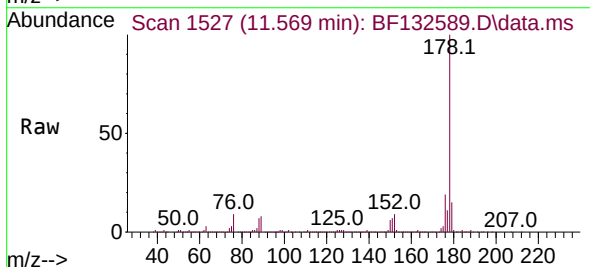
Manual Integrations  
APPROVED

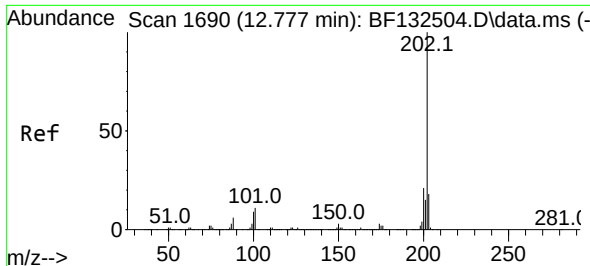
Reviewed By :Yogesh Patel 03/02/2023  
Supervised By :Jagrut Upadhyay 03/02/2023



#71  
Phenanthrene  
Concen: 8.529 ng  
RT: 11.569 min Scan# 1527  
Delta R.T. -0.009 min  
Lab File: BF132589.D  
Acq: 01 Mar 2023 14:04

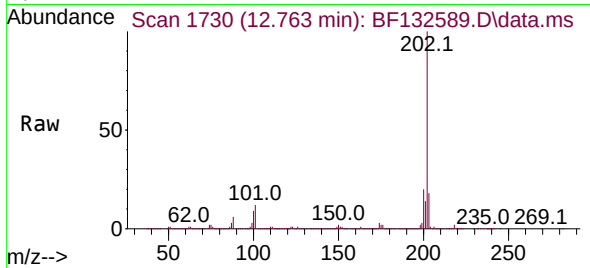
Tgt Ion:178 Resp: 315342  
Ion Ratio Lower Upper  
178 100  
176 19.2 16.5 24.7  
179 14.8 13.0 19.6





#75  
Fluoranthene  
Concen: 14.608 ng  
RT: 12.763 min Scan# 1730  
Delta R.T. -0.009 min  
Lab File: BF132589.D  
Acq: 01 Mar 2023 14:04

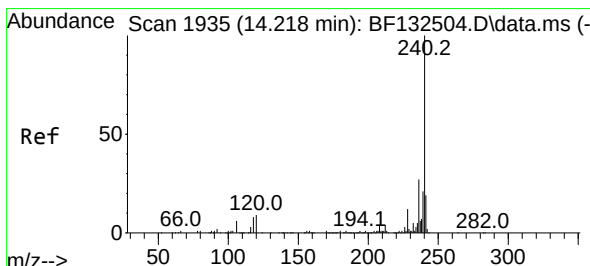
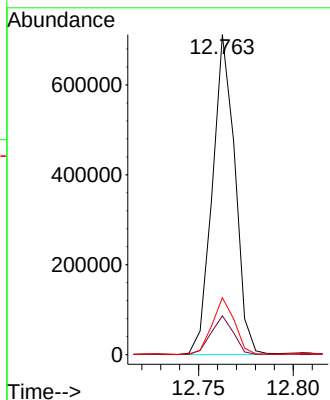
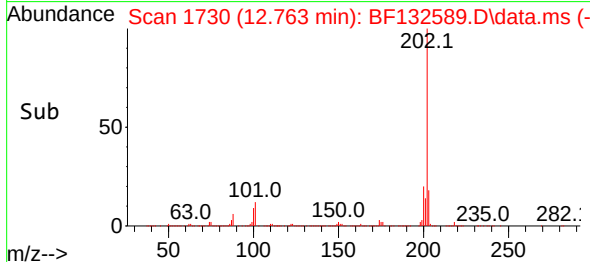
Instrument :  
BNA\_F  
ClientSampleId :  
RBR53-VNJ201



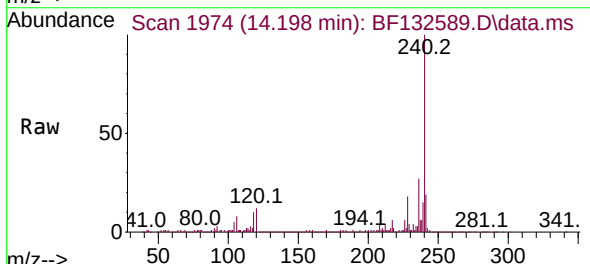
Tgt Ion:202 Resp: 590442  
Ion Ratio Lower Upper  
202 100  
101 12.2 0.0 31.4  
203 17.8 0.0 38.0

Manual Integrations  
APPROVED

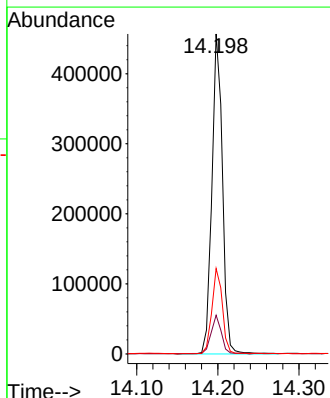
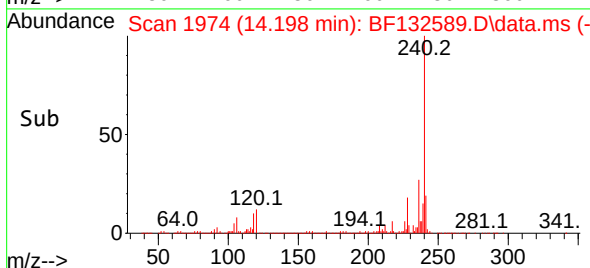
Reviewed By :Yogesh Patel 03/02/2023  
Supervised By :Jagrut Upadhyay 03/02/2023



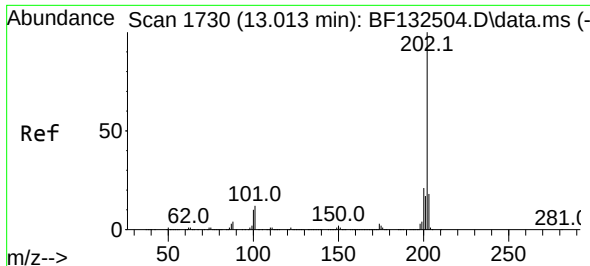
#76  
Chrysene-d12  
Concen: 20.000 ng  
RT: 14.198 min Scan# 1974  
Delta R.T. -0.009 min  
Lab File: BF132589.D  
Acq: 01 Mar 2023 14:04



Tgt Ion:240 Resp: 414593  
Ion Ratio Lower Upper  
240 100  
120 12.1 7.2 10.8  
236 26.7 21.8 32.6

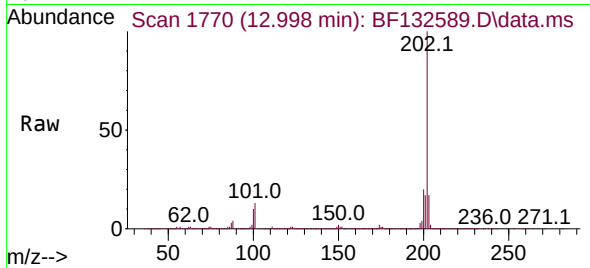






#78  
Pyrene  
Concen: 14.587 ng  
RT: 12.998 min Scan# 1770  
Delta R.T. -0.003 min  
Lab File: BF132589.D  
Acq: 01 Mar 2023 14:04

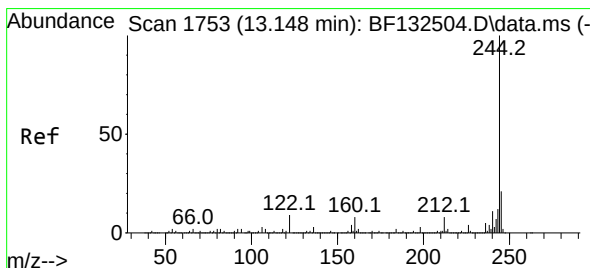
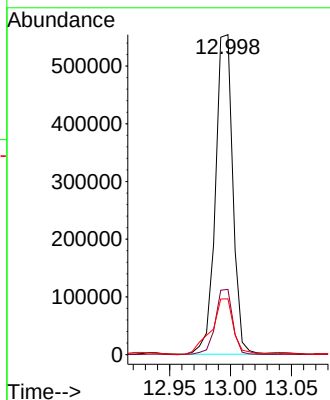
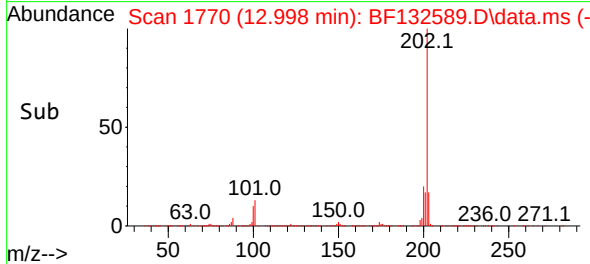
Instrument :  
BNA\_F  
ClientSampleId :  
RBR53-VNJ201



Tgt Ion:202 Resp: 549858  
Ion Ratio Lower Upper  
202 100  
200 20.4 17.1 25.7  
203 17.4 14.6 21.8

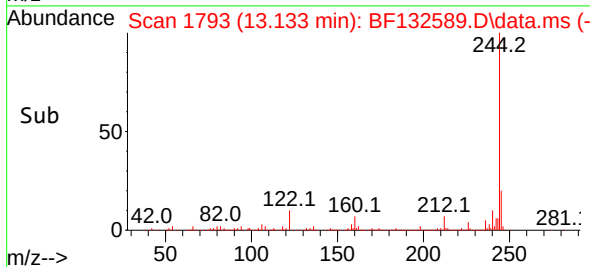
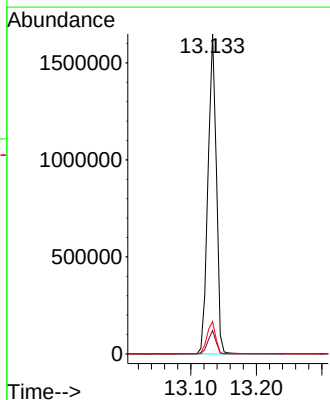
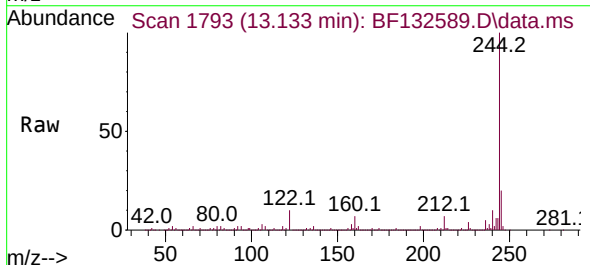
Manual Integrations  
APPROVED

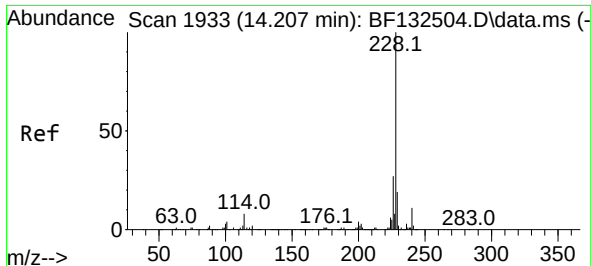
Reviewed By :Yogesh Patel 03/02/2023  
Supervised By :Jagrut Upadhyay 03/02/2023



#79  
Terphenyl-d14  
Concen: 59.418 ng  
RT: 13.133 min Scan# 1793  
Delta R.T. -0.009 min  
Lab File: BF132589.D  
Acq: 01 Mar 2023 14:04

Tgt Ion:244 Resp: 1456995  
Ion Ratio Lower Upper  
244 100  
212 7.3 6.5 9.7  
122 10.1 7.5 11.3





#81

Benzo(a)anthracene

Concen: 8.833 ng

RT: 14.186 min Scan# 1933

Delta R.T. -0.009 min

Lab File: BF132589.D

Acq: 01 Mar 2023 14:04

Instrument :

BNA\_F

ClientSampleId :

RBR53-VNJ201

Tgt Ion:228 Resp: 273996

Ion Ratio Lower Upper

228 100

226 27.3 21.7 32.5

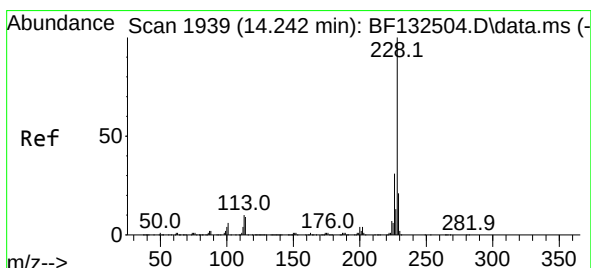
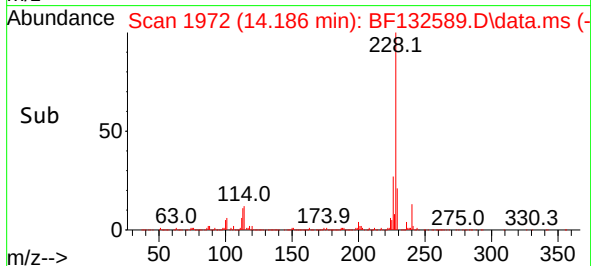
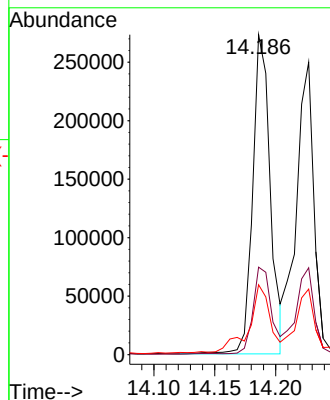
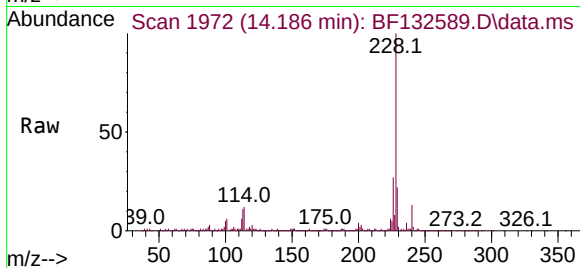
229 21.8 15.4 23.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 03/02/2023

Supervised By :Jagrut Upadhyay 03/02/2023



#83

Chrysene

Concen: 8.767 ng

RT: 14.227 min Scan# 1979

Delta R.T. -0.009 min

Lab File: BF132589.D

Acq: 01 Mar 2023 14:04

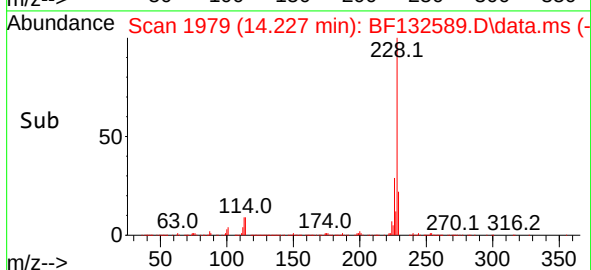
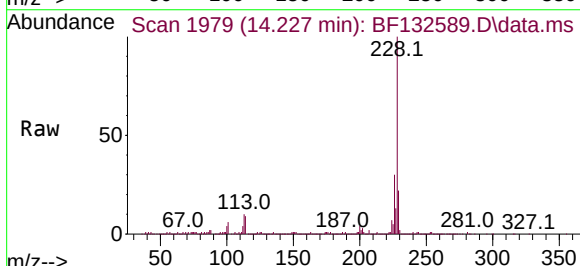
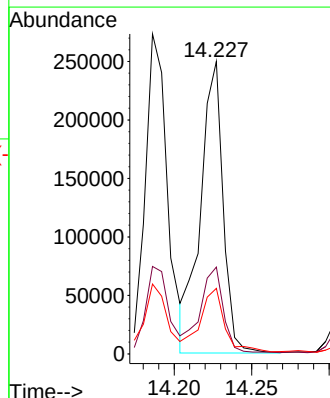
Tgt Ion:228 Resp: 254317

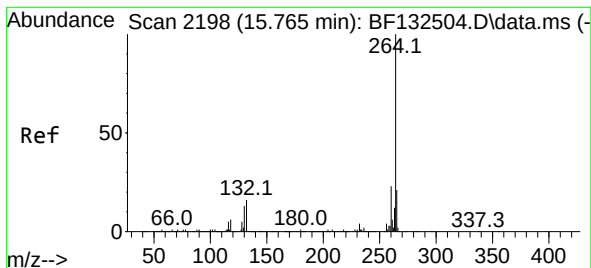
Ion Ratio Lower Upper

228 100

226 29.7 25.0 37.6

229 22.4 16.4 24.6





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.751 min Scan# 21

Delta R.T. -0.003 min

Lab File: BF132589.D

Acq: 01 Mar 2023 14:04

Instrument :

BNA\_F

ClientSampleId :

RBR53-VNJ201

Tgt Ion:264 Resp: 490086

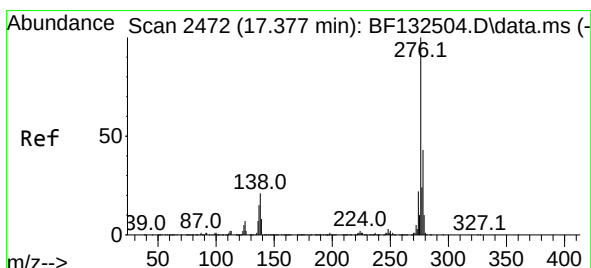
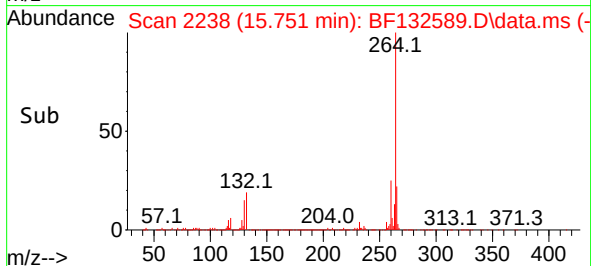
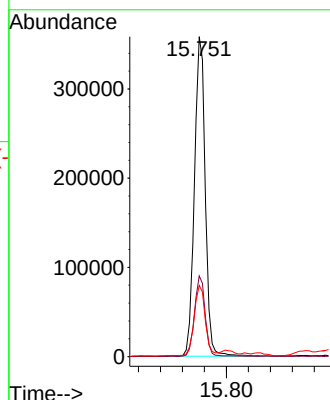
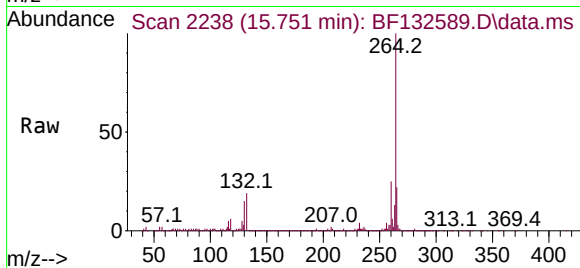
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 264 | 100   |       |       |
| 260 | 25.2  | 18.8  | 28.2  |
| 265 | 22.2  | 17.1  | 25.7  |

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 03/02/2023

Supervised By :Jagrut Upadhyay 03/02/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 5.292 ng

RT: 17.345 min Scan# 2509

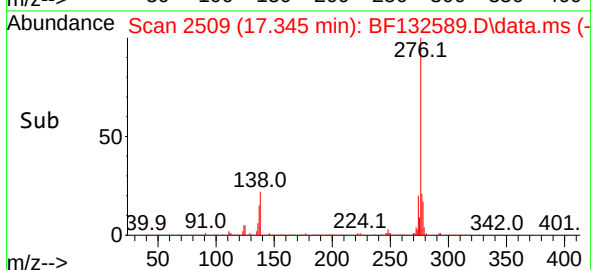
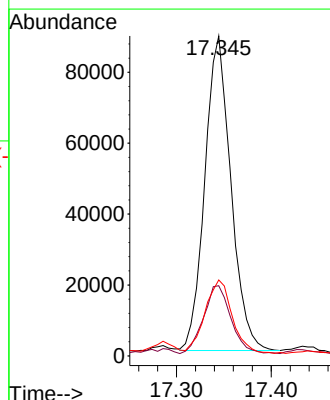
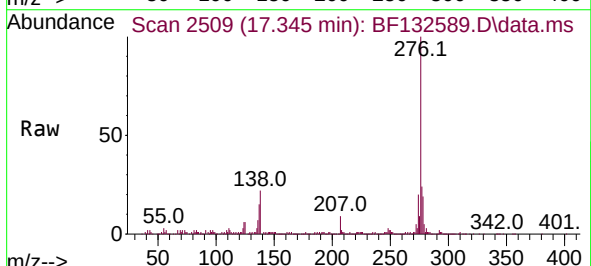
Delta R.T. -0.015 min

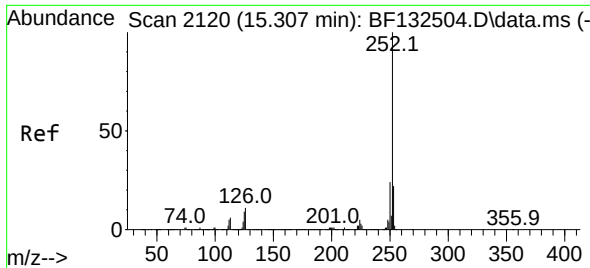
Lab File: BF132589.D

Acq: 01 Mar 2023 14:04

Tgt Ion:276 Resp: 169956

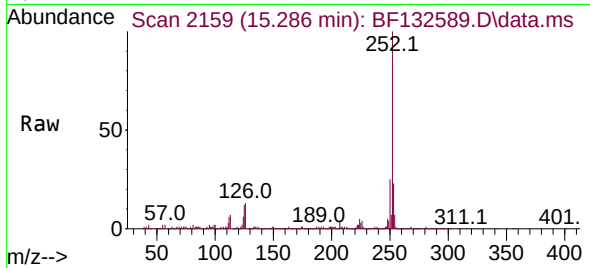
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 138 | 22.7  | 19.0  | 28.4  |
| 277 | 24.4  | 20.0  | 30.0  |





#88  
Benzo(b)fluoranthene  
Concen: 10.620 ng m  
RT: 15.286 min Scan# 2119  
Delta R.T. -0.009 min  
Lab File: BF132589.D  
Acq: 01 Mar 2023 14:04

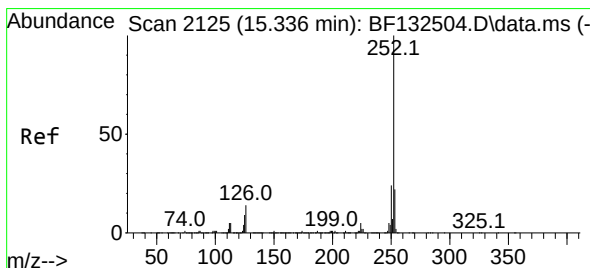
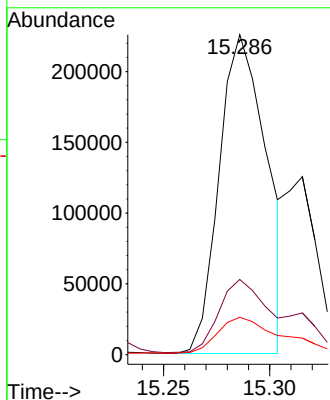
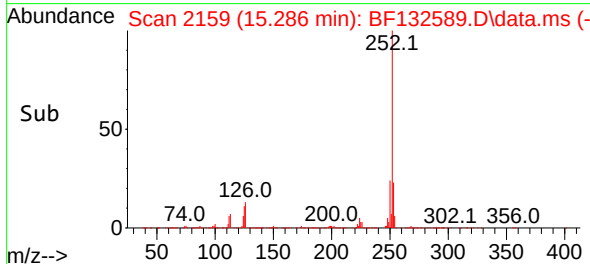
Instrument :  
BNA\_F  
ClientSampleId :  
RBR53-VNJ201



Tgt Ion:252 Resp: 348790  
Ion Ratio Lower Upper  
252 100  
253 23.5 17.4 26.0  
125 11.7 7.0 10.6

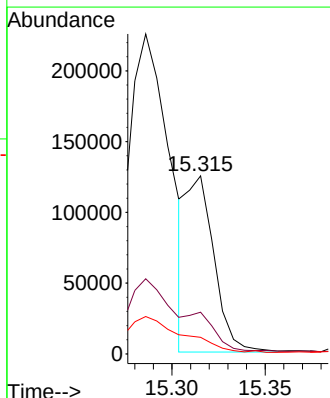
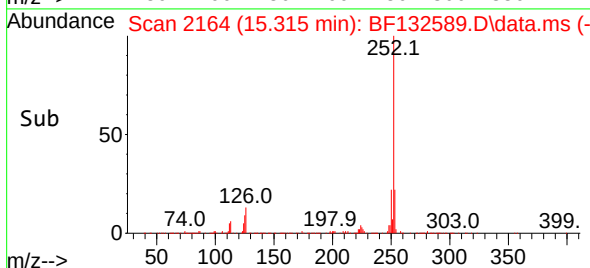
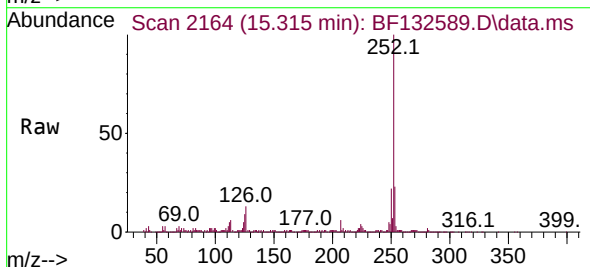
Manual Integrations  
APPROVED

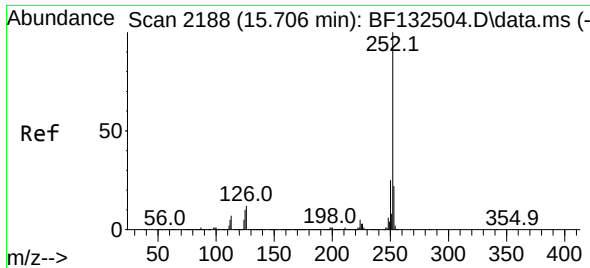
Reviewed By :Yogesh Patel 03/02/2023  
Supervised By :Jagrut Upadhyay 03/02/2023



#89  
Benzo(k)fluoranthene  
Concen: 4.013 ng m  
RT: 15.315 min Scan# 2164  
Delta R.T. -0.009 min  
Lab File: BF132589.D  
Acq: 01 Mar 2023 14:04

Tgt Ion:252 Resp: 128988  
Ion Ratio Lower Upper  
252 100  
253 23.4 17.5 26.3  
125 9.3 7.2 10.8





#90  
Benzo(a)pyrene  
Concen: 8.884 ng  
RT: 15.680 min Scan# 2188  
Delta R.T. -0.009 min  
Lab File: BF132589.D  
Acq: 01 Mar 2023 14:04

Instrument :

BNA\_F

ClientSampleId :

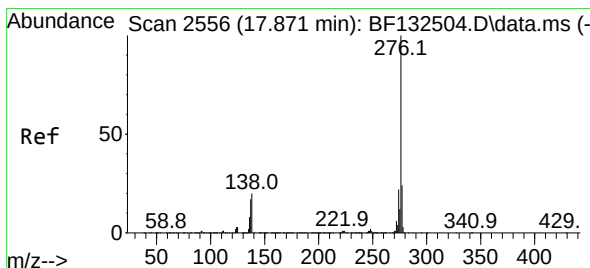
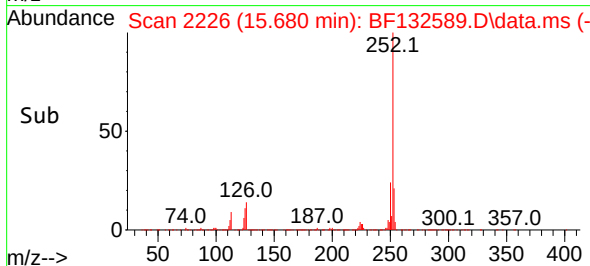
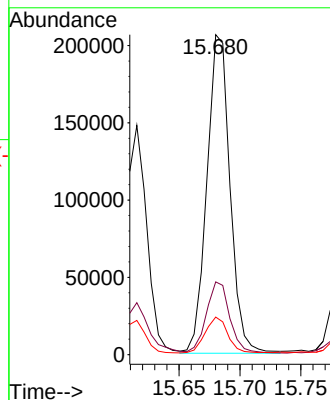
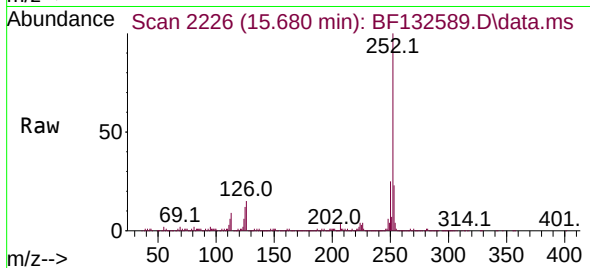
RBR53-VNJ201

Tgt Ion:252 Resp: 27307  
Ion Ratio Lower Upper  
252 100  
253 22.7 17.2 25.8  
125 11.7 8.0 12.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 03/02/2023  
Supervised By :Jagrut Upadhyay 03/02/2023



#92  
Benzo(g,h,i)perylene  
Concen: 7.161 ng  
RT: 17.833 min Scan# 2592  
Delta R.T. -0.021 min  
Lab File: BF132589.D  
Acq: 01 Mar 2023 14:04

Tgt Ion:276 Resp: 169710  
Ion Ratio Lower Upper  
276 100  
277 23.8 18.9 28.3  
138 21.8 16.2 24.4

