

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF010821\  
 Data File : BF122955.D  
 Acq On : 8 Jan 2021 22:38  
 Operator : JU/CG  
 Sample : M1004-03 2X  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PE-2

Manual Integrations  
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 1/11/2021 10:27:43 AM

Quant Time: Jan 08 23:39:37 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF010721.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jan 08 16:17:19 2021  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|--------|------|----------|-------|-------|----------|
| -----                       |        |      |          |       |       |          |
| Internal Standards          |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.916  | 152  | 186217   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.198  | 136  | 676720   | 20.00 | ng    | 0.00     |
| 39) Acenaphthene-d10        | 9.957  | 164  | 333259   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.451 | 188  | 575800   | 20.00 | ng    | 0.00     |
| 76) Chrysene-d12            | 14.104 | 240  | 529341   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 15.598 | 264  | 520737   | 20.00 | ng    | 0.00     |
|                             |        |      |          |       |       |          |
| System Monitoring Compounds |        |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.522  | 112  | 457349   | 36.87 | ng    | -0.01    |
| 7) Phenol-d6                | 6.528  | 99   | 560763   | 33.31 | ng    | -0.01    |
| 23) Nitrobenzene-d5         | 7.469  | 82   | 313915   | 22.94 | ng    | -0.01    |
| 42) 2,4,6-Tribromophenol    | 10.745 | 330  | 126545   | 33.62 | ng    | -0.01    |
| 45) 2-Fluorobiphenyl        | 9.275  | 172  | 608346   | 25.88 | ng    | 0.00     |
| 79) Terphenyl-d14           | 13.039 | 244  | 553746   | 19.38 | ng    | -0.01    |
|                             |        |      |          |       |       |          |
| Target Compounds            |        |      |          |       |       | Qvalue   |
| 52) Acenaphthene            | 9.992  | 154  | 49913    | 2.36  | ng    | 99       |
| 58) Fluorene                | 10.510 | 166  | 64571    | 2.65  | ng    | 99       |
| 71) Phenanthrene            | 11.480 | 178  | 1401730  | 42.96 | ng    | 100      |
| 72) Anthracene              | 11.527 | 178  | 264941   | 8.19  | ng    | 98       |
| 73) Carbazole               | 11.675 | 167  | 112984   | 3.77  | ng    | 97       |
| 75) Fluoranthene            | 12.674 | 202  | 2594016  | 74.70 | ng    | 97       |
| 78) Pyrene                  | 12.904 | 202  | 2262940  | 55.00 | ng    | 97       |
| 81) Benzo(a)anthracene      | 14.092 | 228  | 1173693  | 33.04 | ng    | 98       |
| 83) Chrysene                | 14.133 | 228  | 1134655  | 33.14 | ng    | 97       |
| 87) Indeno(1,2,3-cd)pyrene  | 17.109 | 276  | 645101   | 19.17 | ng    | 96       |
| 88) Benzo(b)fluoranthene    | 15.163 | 252  | 1576024m | 43.06 | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.186 | 252  | 502934m  | 14.92 | ng    |          |
| 90) Benzo(a)pyrene          | 15.539 | 252  | 1043616  | 32.44 | ng    | 97       |
| 91) Dibenzo(a,h)anthracene  | 17.115 | 278  | 143462m  | 5.20  | ng    |          |
| 92) Benzo(g,h,i)perylene    | 17.568 | 276  | 591179   | 22.49 | ng    | 98       |
| -----                       |        |      |          |       |       |          |

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

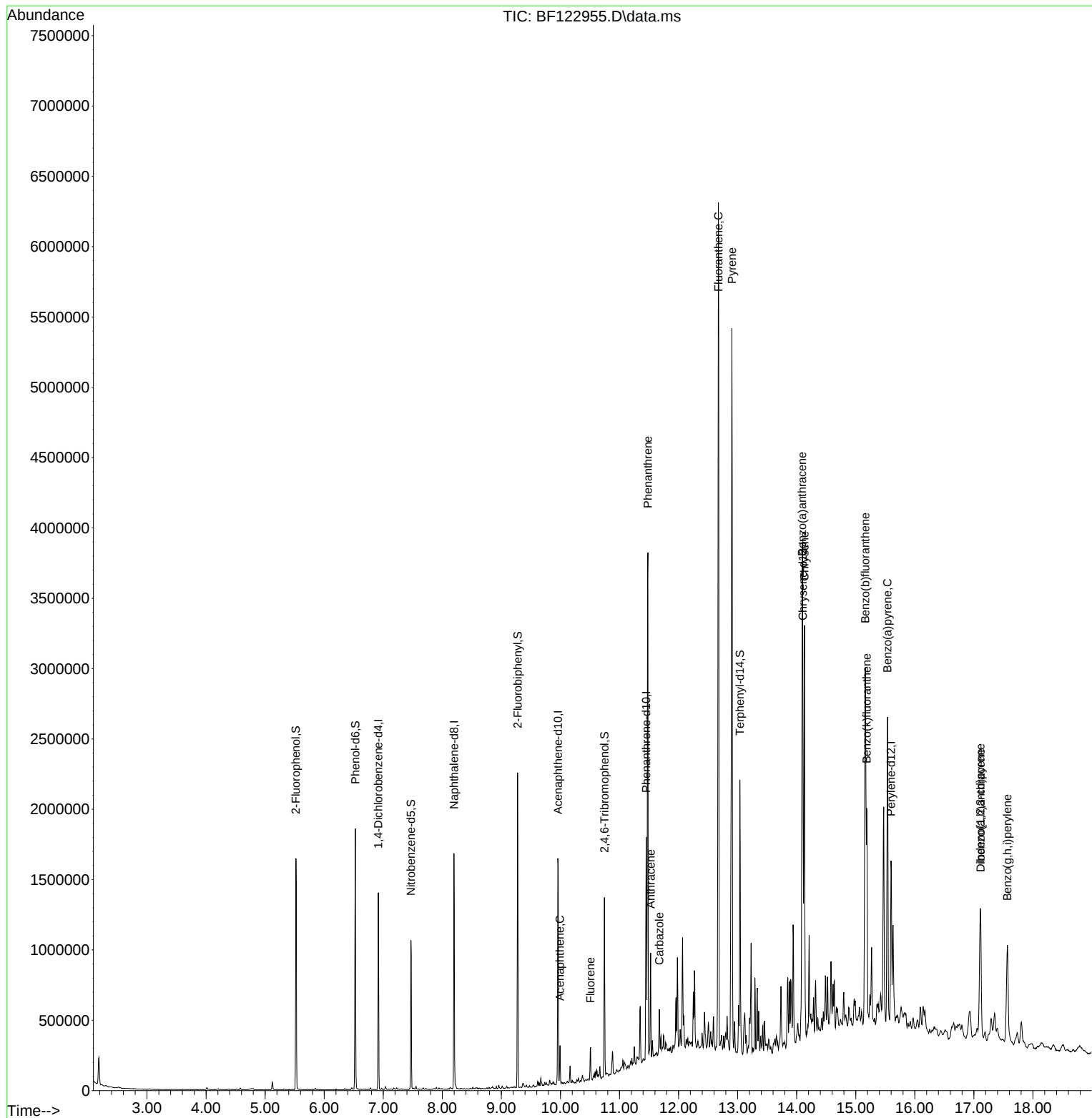
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF010821\  
Data File : BF122955.D  
Acq On : 8 Jan 2021 22:38  
Operator : JU/CG  
Sample : M1004-03 2X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

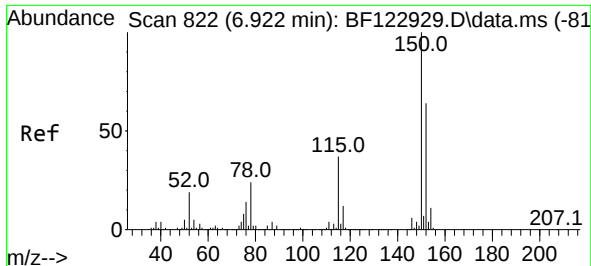
Instrument :  
BNA\_F  
ClientSampleId :  
PE-2

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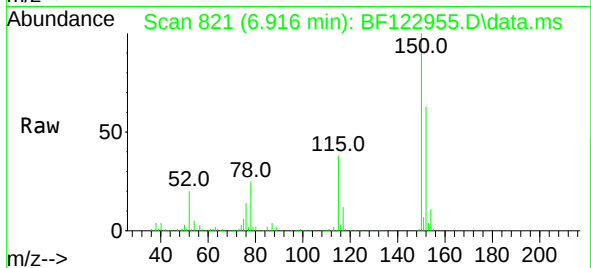
Quant Time: Jan 08 23:39:37 2021  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF010721.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jan 08 16:17:19 2021  
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.916 min Scan# 821  
Delta R.T. -0.006 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

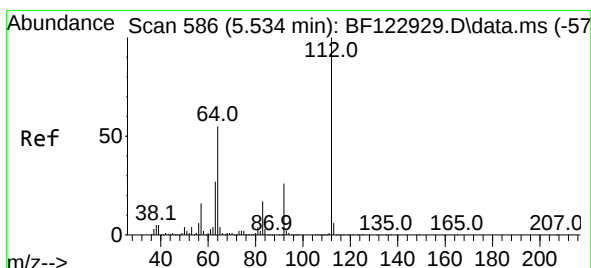
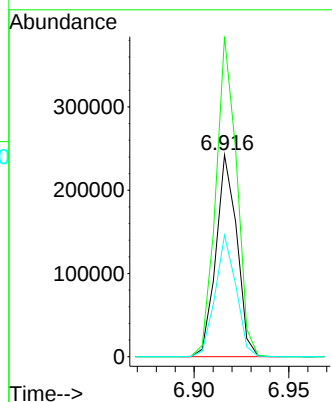
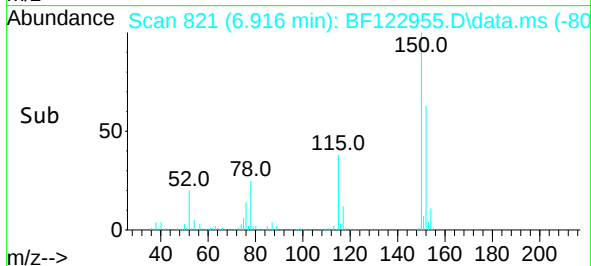
Instrument :  
BNA\_F  
ClientSampled :  
PE-2



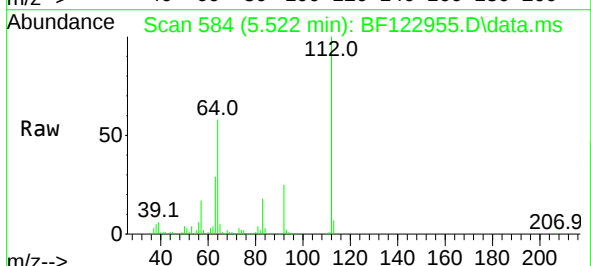
Tgt Ion:152 Resp: 186217  
Ion Ratio Lower Upper  
152 100  
150 158.6 125.8 188.6  
115 60.3 49.3 73.9

Manual Integrations  
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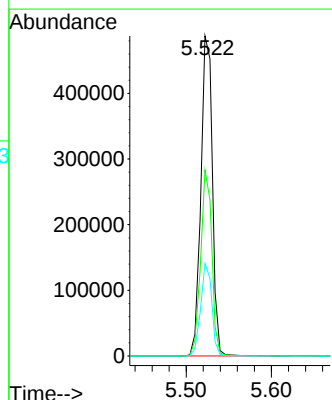
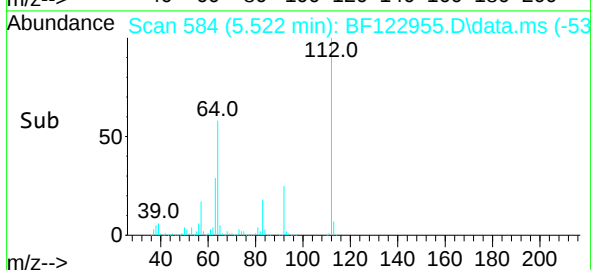
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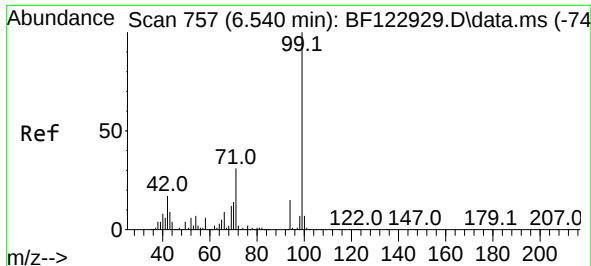


#5  
2-Fluorophenol  
Concen: 36.87 ng  
RT: 5.522 min Scan# 584  
Delta R.T. -0.012 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38



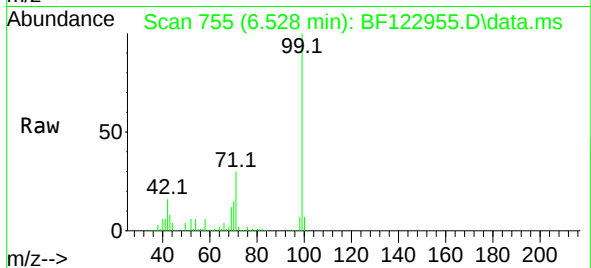
Tgt Ion:112 Resp: 457349  
Ion Ratio Lower Upper  
112 100  
64 58.1 46.9 70.3  
63 28.9 24.5 36.7





#7  
Phenol-d6  
Concen: 33.31 ng  
RT: 6.528 min Scan# 755  
Delta R.T. -0.012 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

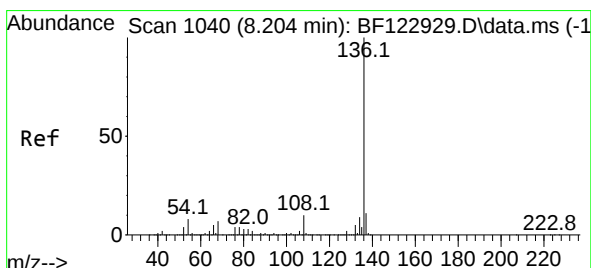
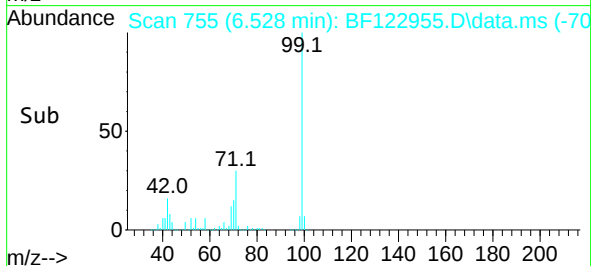
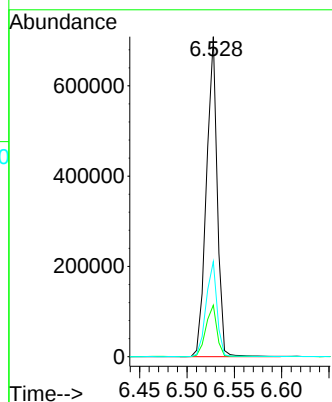
Instrument :  
BNA\_F  
ClientSampleId :  
PE-2



Tgt Ion: 99 Resp: 560763  
Ion Ratio Lower Upper  
99 100  
42 16.1 13.8 20.6  
71 29.7 26.9 40.3

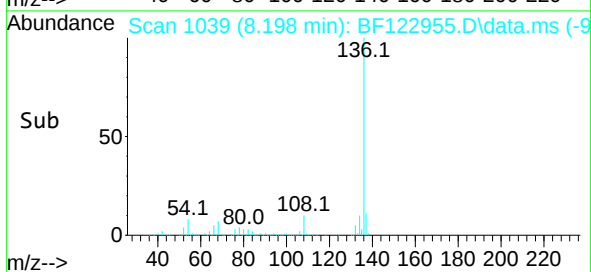
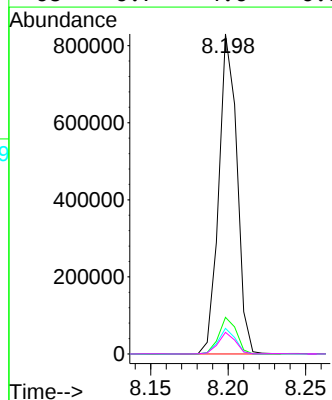
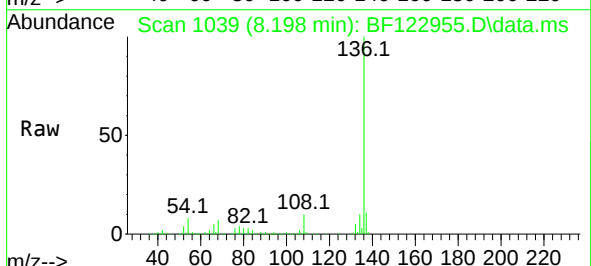
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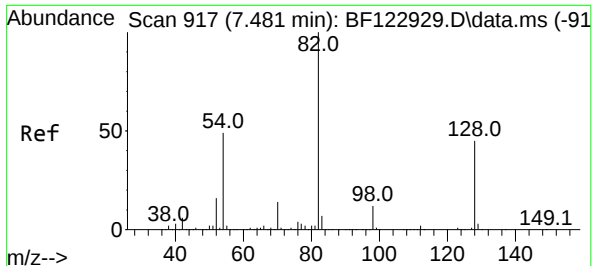
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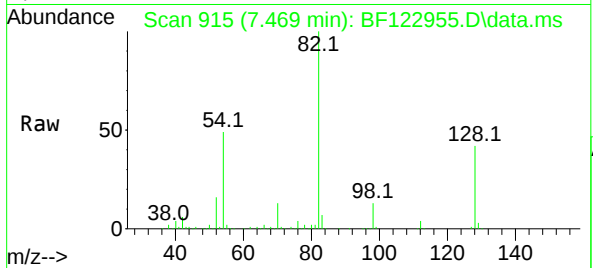
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.198 min Scan# 1039  
Delta R.T. -0.006 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

Tgt Ion: 136 Resp: 676720  
Ion Ratio Lower Upper  
136 100  
137 11.5 8.8 13.2  
54 8.0 5.5 8.3  
68 6.7 4.6 6.8

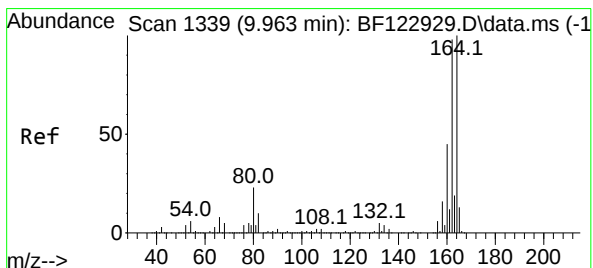
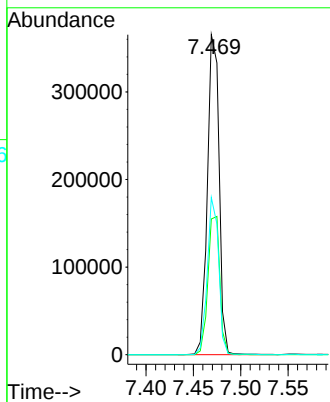
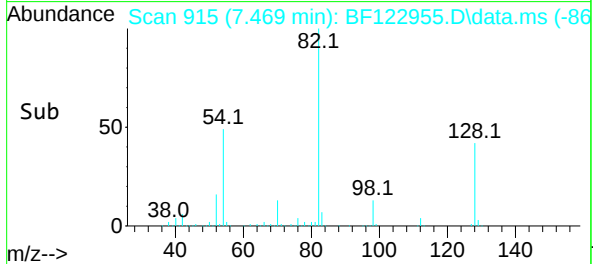




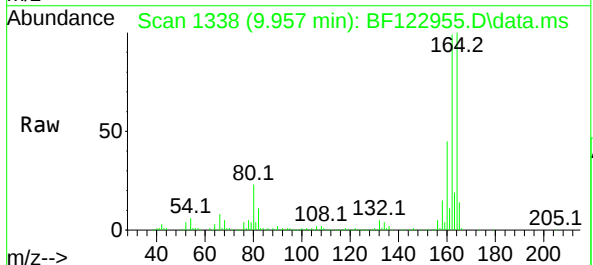
#23  
Nitrobenzene-d5  
Concen: 22.94 ng  
RT: 7.469 min Scan# 915  
Delta R.T. -0.012 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38



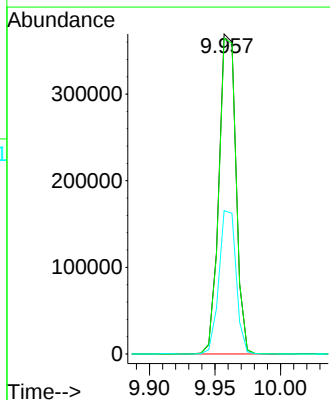
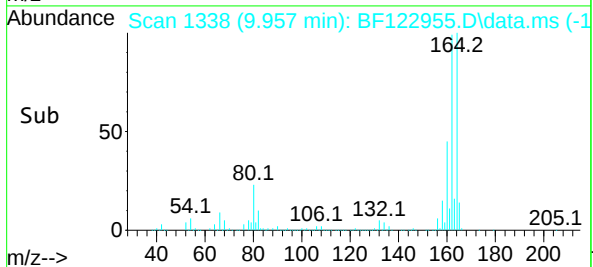
Tgt Ion: 82 Resp: 313915  
Ion Ratio Lower Upper  
82 100  
128 42.4 37.0 55.4  
54 49.1 38.4 57.6



#39  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.957 min Scan# 1338  
Delta R.T. -0.006 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38



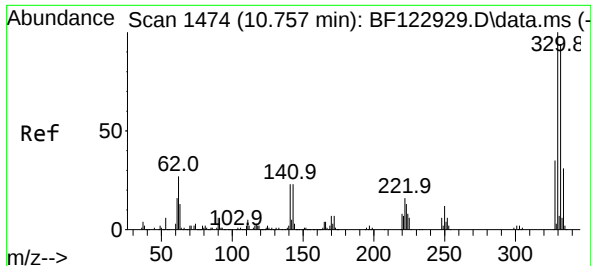
Tgt Ion: 164 Resp: 333259  
Ion Ratio Lower Upper  
164 100  
162 98.6 80.8 121.2  
160 44.8 35.4 53.0



Instrument :  
BNA\_F  
ClientSampleId :  
PE-2

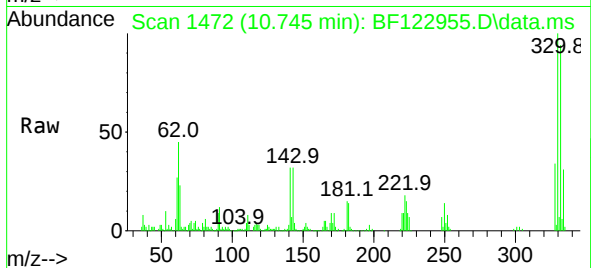
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#42  
2,4,6-Tribromophenol  
Concen: 33.62 ng  
RT: 10.745 min Scan# 1472  
Delta R.T. -0.012 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

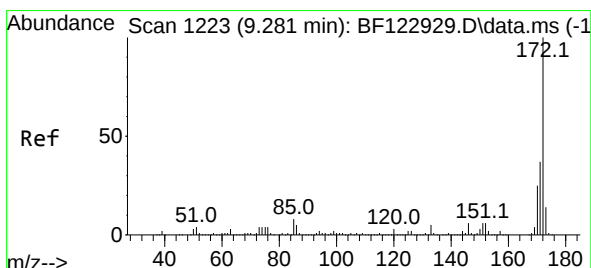
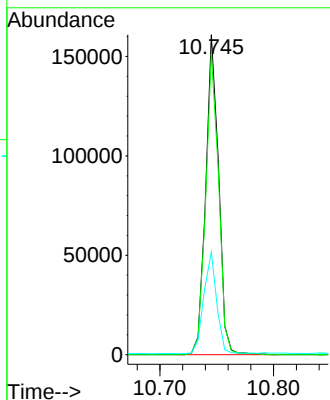
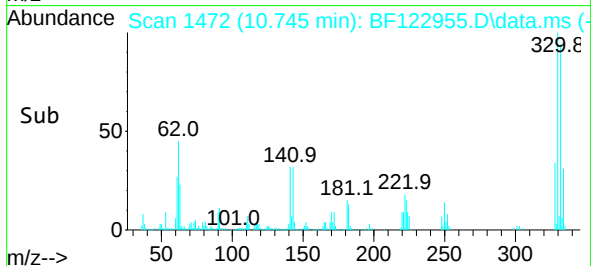
Instrument :  
BNA\_F  
ClientSampled :  
PE-2



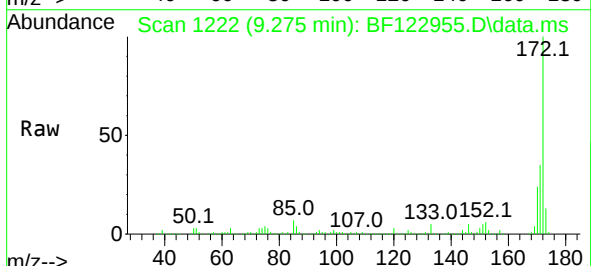
Tgt Ion: 330 Resp: 126545  
Ion Ratio Lower Upper  
330 100  
332 94.6 77.5 116.3  
141 31.6 23.8 35.8

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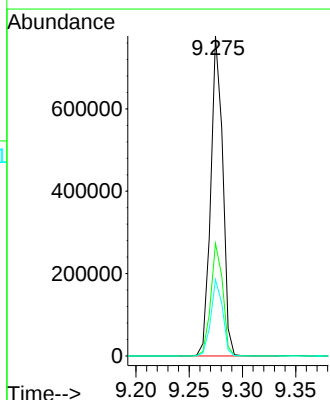
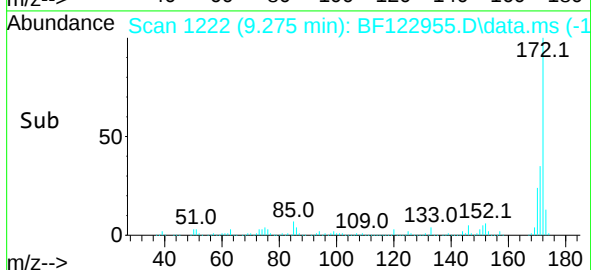
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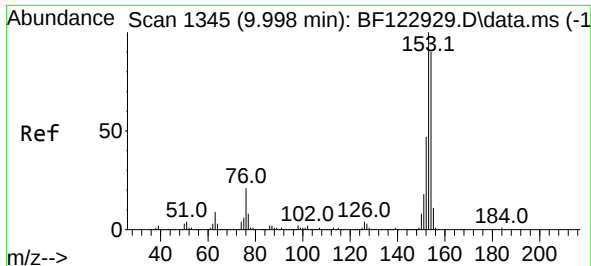


#45  
2-Fluorobiphenyl  
Concen: 25.88 ng  
RT: 9.275 min Scan# 1222  
Delta R.T. -0.006 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38



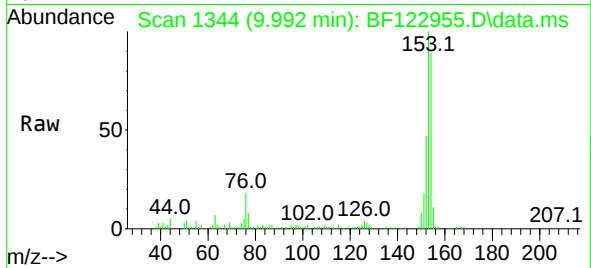
Tgt Ion: 172 Resp: 608346  
Ion Ratio Lower Upper  
172 100  
171 35.2 29.6 44.4  
170 23.8 19.5 29.3





#52  
Acenaphthene  
Concen: 2.36 ng  
RT: 9.992 min Scan# 1344  
Delta R.T. -0.006 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

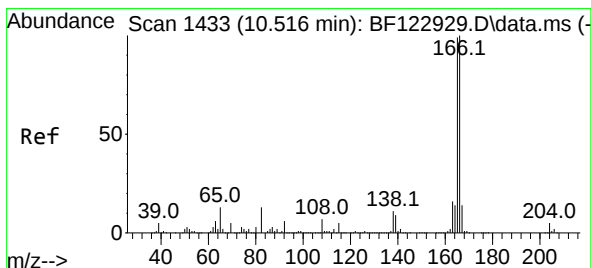
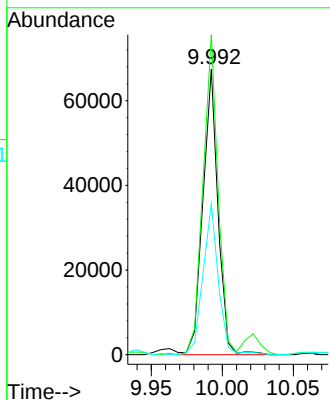
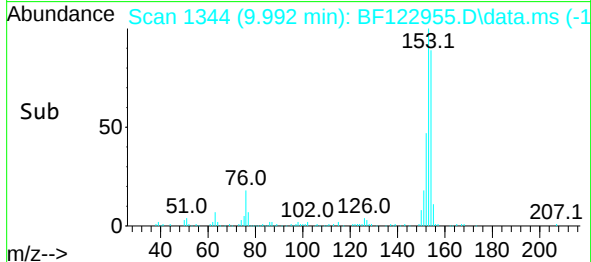
Instrument :  
BNA\_F  
ClientSampled :  
PE-2



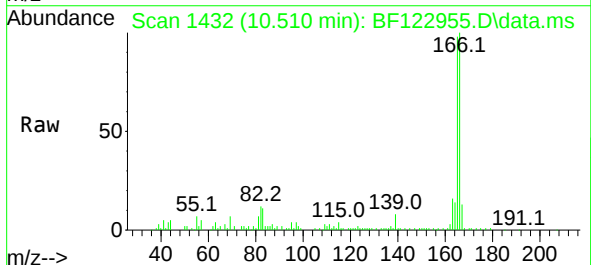
Tgt Ion:154 Resp: 49913  
Ion Ratio Lower Upper  
154 100  
153 112.1 89.0 133.6  
152 53.0 42.7 64.1

Manual Integrations  
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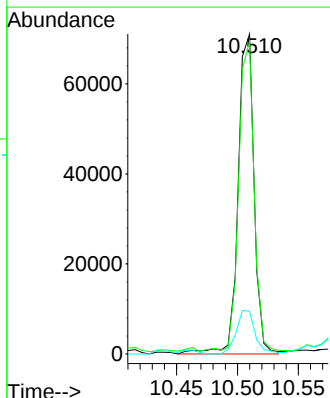
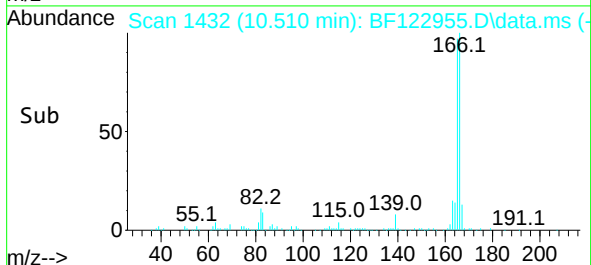
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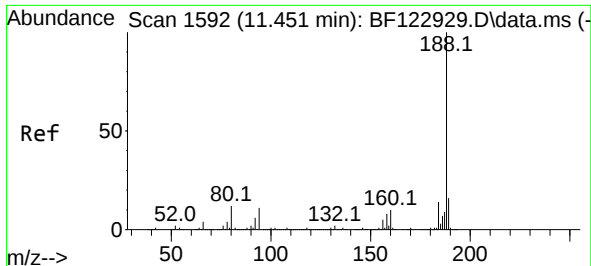


#58  
Fluorene  
Concen: 2.65 ng  
RT: 10.510 min Scan# 1432  
Delta R.T. -0.006 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38



Tgt Ion:166 Resp: 64571  
Ion Ratio Lower Upper  
166 100  
165 97.8 79.4 119.0  
167 13.4 10.9 16.3





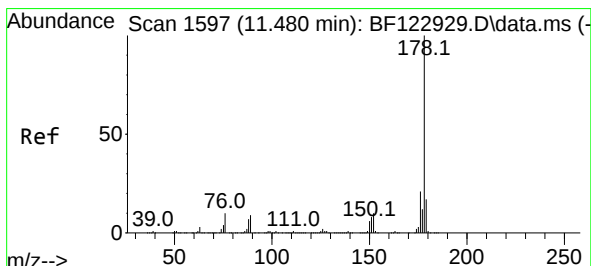
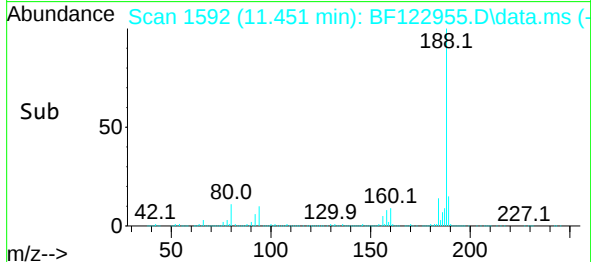
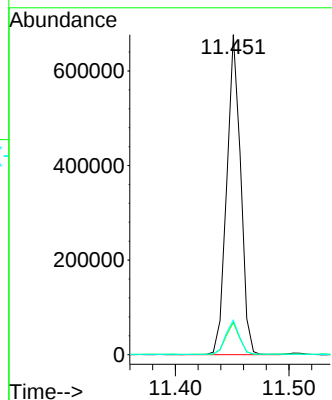
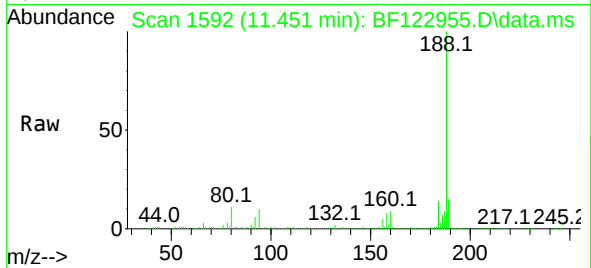
#64  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.451 min Scan# 1592  
Delta R.T. -0.000 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

Tgt Ion:188 Resp: 575800  
Ion Ratio Lower Upper  
188 100  
94 10.1 7.4 11.2  
80 10.8 8.2 12.4

Instrument :  
BNA\_F  
ClientSampleId :  
PE-2

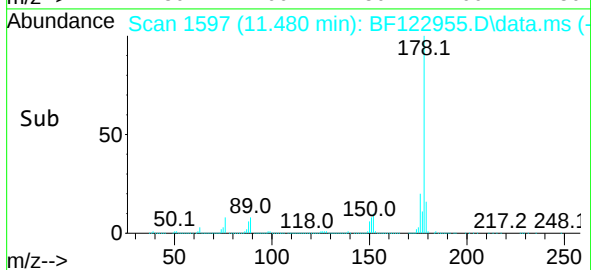
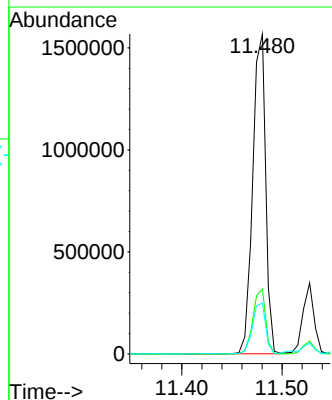
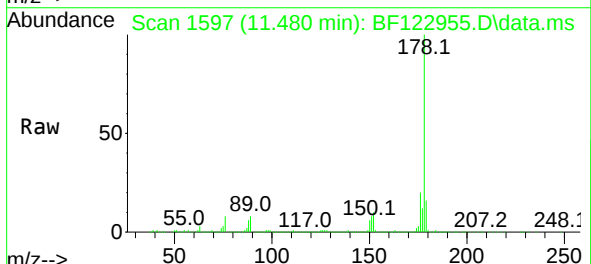
Manual Integrations  
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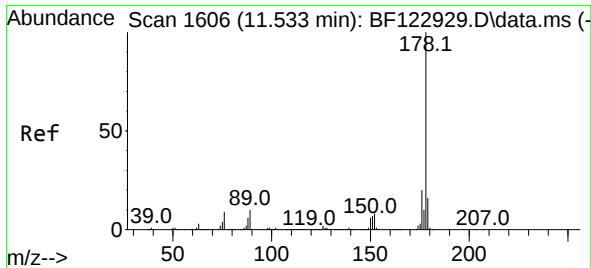
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#71  
Phenanthrene  
Concen: 42.96 ng  
RT: 11.480 min Scan# 1597  
Delta R.T. -0.000 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

Tgt Ion:178 Resp: 1401730  
Ion Ratio Lower Upper  
178 100  
176 20.4 16.2 24.2  
179 15.9 12.7 19.1





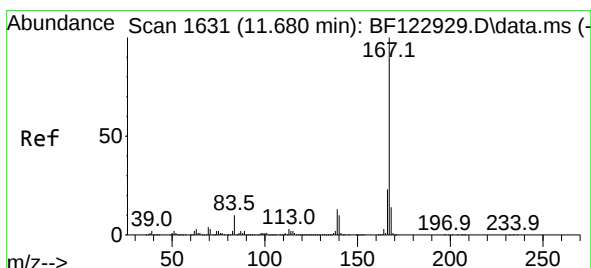
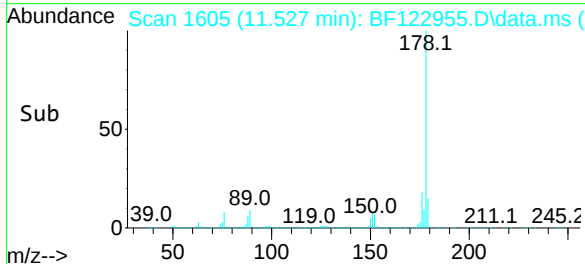
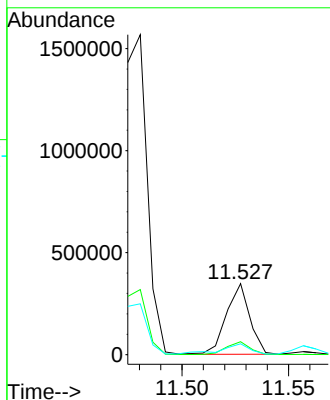
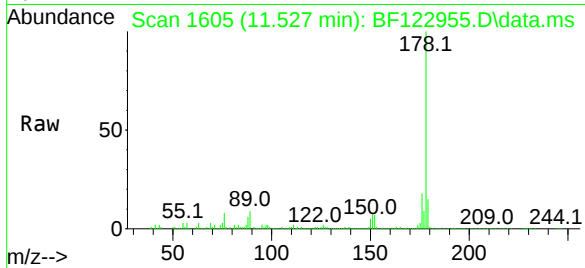
#72  
 Anthracene  
 Concen: 8.19 ng  
 RT: 11.527 min Scan# 1605  
 Delta R.T. -0.006 min  
 Lab File: BF122955.D  
 Acq: 8 Jan 2021 22:38

Tgt Ion:178 Resp: 264941  
 Ion Ratio Lower Upper  
 178 100  
 176 18.4 15.6 23.4  
 179 15.2 12.8 19.2

Instrument :  
 BNA\_F  
 ClientSampled :  
 PE-2

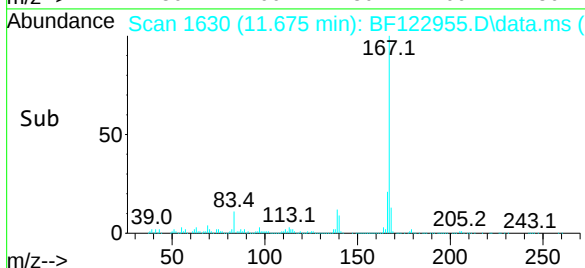
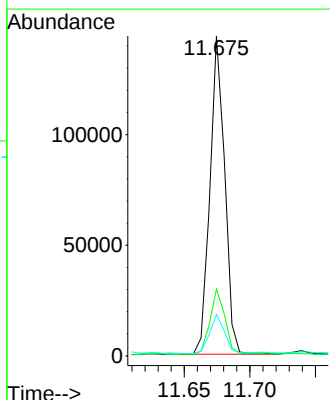
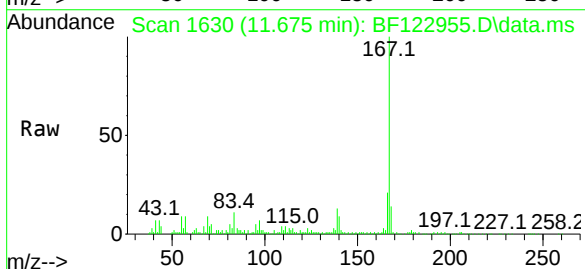
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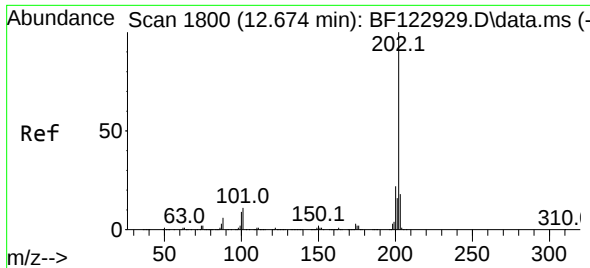
mohammad  
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#73  
 Carbazole  
 Concen: 3.77 ng  
 RT: 11.675 min Scan# 1630  
 Delta R.T. -0.006 min  
 Lab File: BF122955.D  
 Acq: 8 Jan 2021 22:38

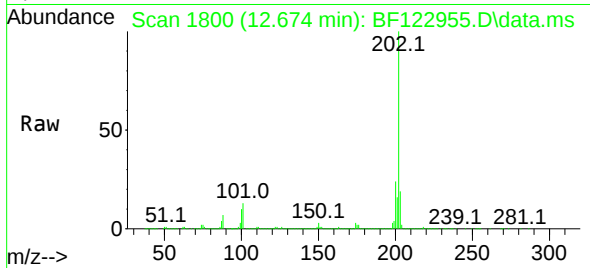
Tgt Ion:167 Resp: 112984  
 Ion Ratio Lower Upper  
 167 100  
 166 20.9 18.0 27.0  
 139 12.9 10.9 16.3





#75  
Fluoranthene  
Concen: 74.70 ng  
RT: 12.674 min Scan# 1800  
Delta R.T. -0.000 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

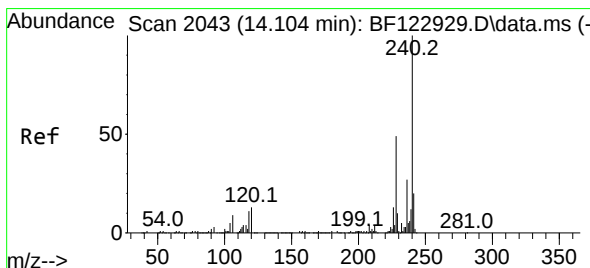
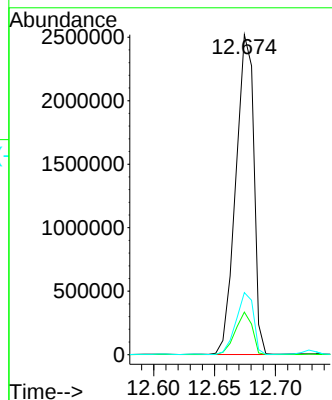
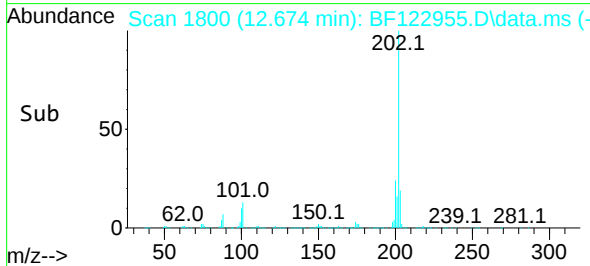
Instrument :  
BNA\_F  
ClientSampled :  
PE-2



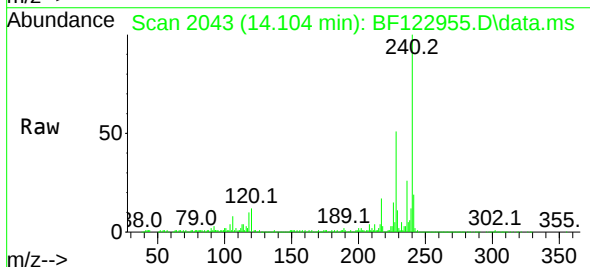
Tgt Ion:202 Resp: 2594016  
Ion Ratio Lower Upper  
202 100  
101 13.3 0.0 32.2  
203 19.4 0.0 38.1

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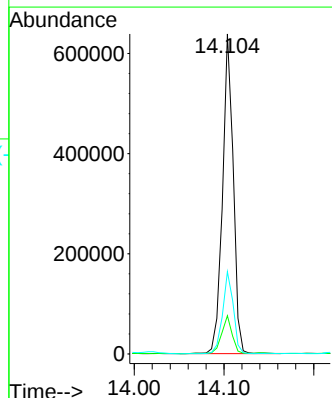
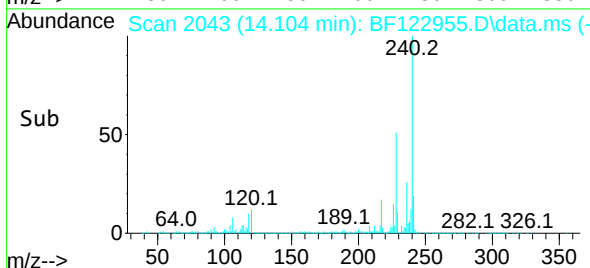
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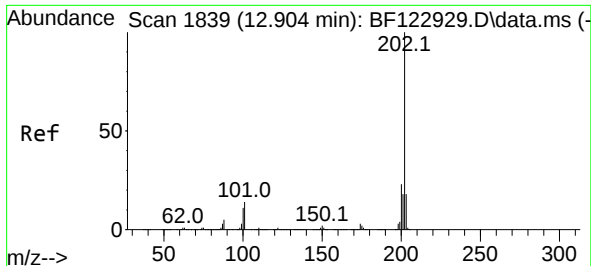


#76  
Chrysene-d12  
Concen: 20.00 ng  
RT: 14.104 min Scan# 2043  
Delta R.T. -0.000 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

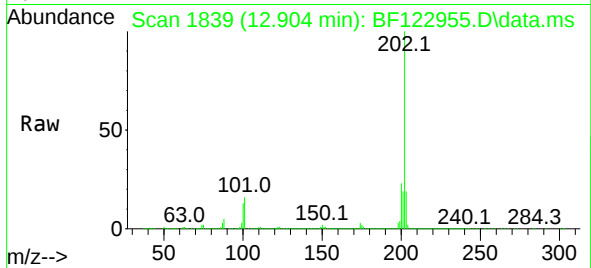


Tgt Ion:240 Resp: 529341  
Ion Ratio Lower Upper  
240 100  
120 11.9 8.6 12.8  
236 25.7 20.3 30.5



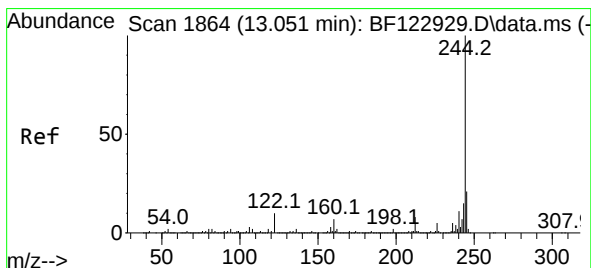
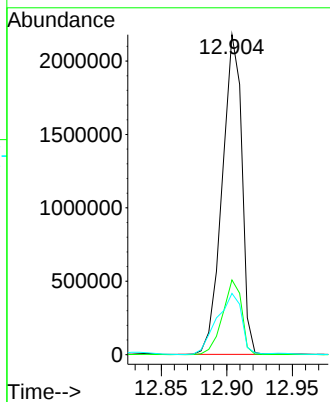
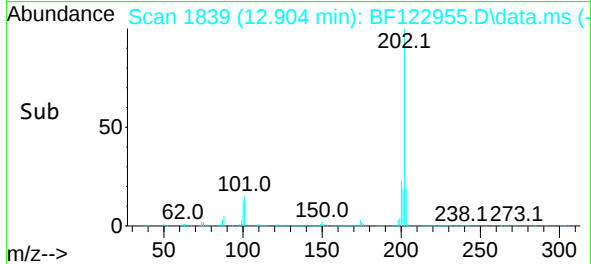


#78  
Pyrene  
Concen: 55.00 ng  
RT: 12.904 min Scan# 1839  
Delta R.T. -0.000 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

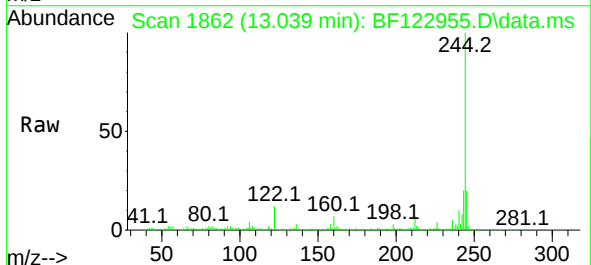


Tgt Ion:202 Resp: 2262940

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 202 | 100   |       |       |
| 200 | 23.4  | 17.6  | 26.4  |
| 203 | 19.1  | 14.6  | 21.8  |

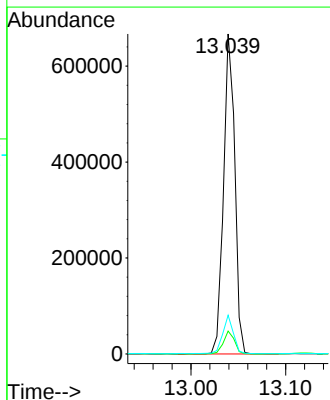
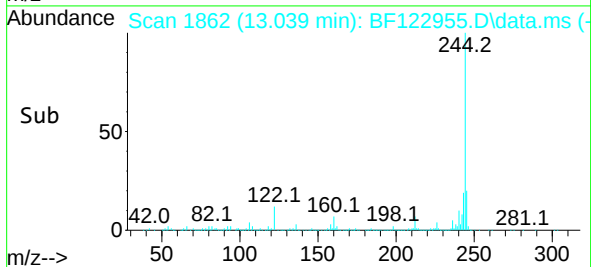


#79  
Terphenyl-d14  
Concen: 19.38 ng  
RT: 13.039 min Scan# 1862  
Delta R.T. -0.012 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38



Tgt Ion:244 Resp: 553746

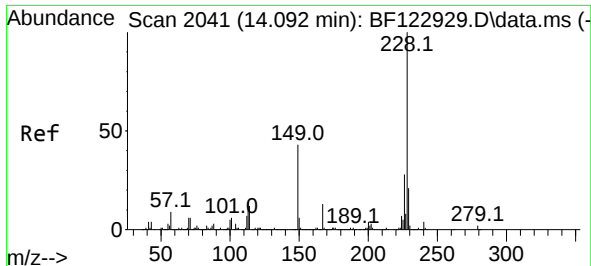
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 244 | 100   |       |       |
| 212 | 7.1   | 5.7   | 8.5   |
| 122 | 12.1  | 8.3   | 12.5  |



Instrument :  
BNA\_F  
ClientSampled :  
PE-2

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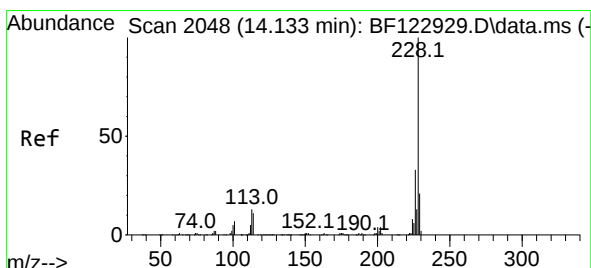
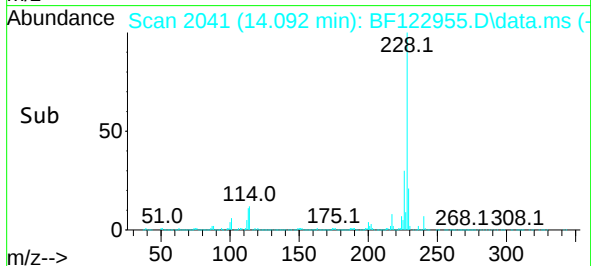
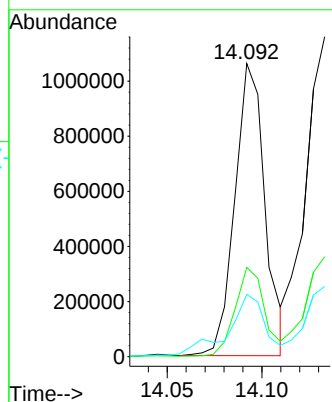
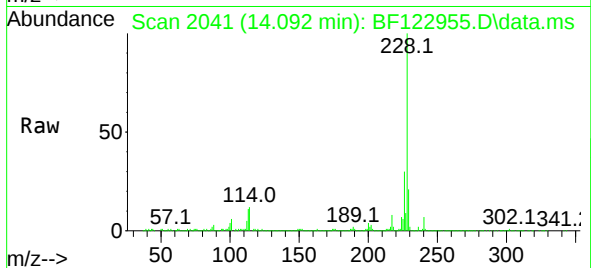
#81  
Benzo(a)anthracene  
Concen: 33.04 ng  
RT: 14.092 min Scan# 2041  
Delta R.T. -0.000 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

Tgt Ion:228 Resp: 1173693  
Ion Ratio Lower Upper  
228 100  
226 30.5 23.0 34.4  
229 21.2 16.6 24.8

Instrument :  
BNA\_F  
ClientSampled :  
PE-2

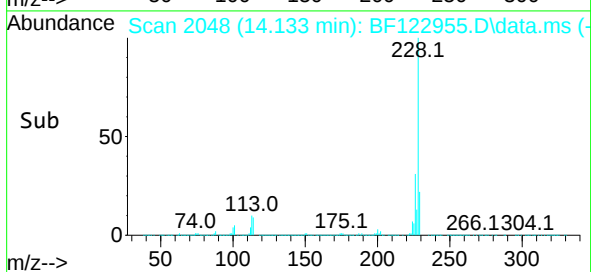
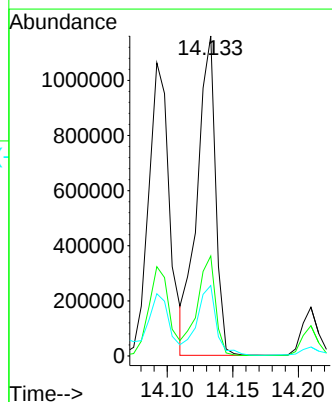
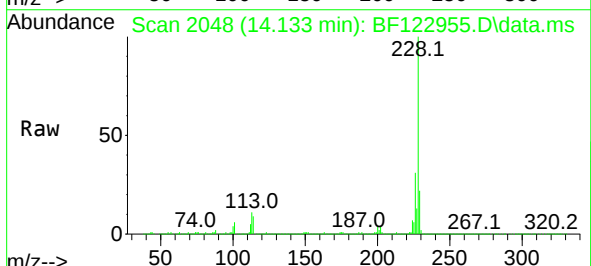
Manual Integrations  
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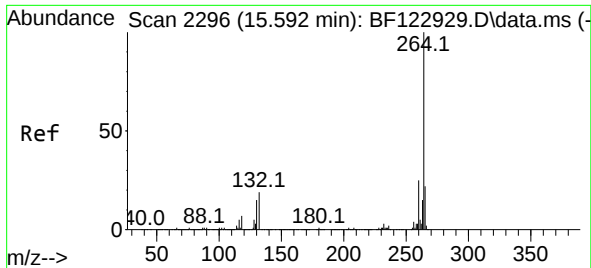
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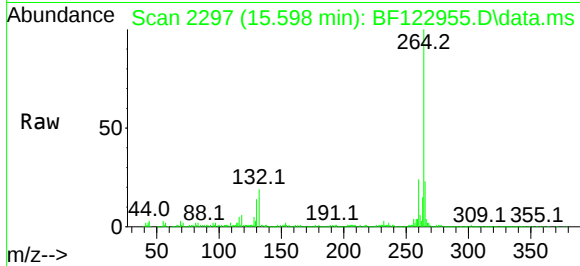
#83  
Chrysene  
Concen: 33.14 ng  
RT: 14.133 min Scan# 2048  
Delta R.T. -0.000 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

Tgt Ion:228 Resp: 1134655  
Ion Ratio Lower Upper  
228 100  
226 31.3 24.6 36.8  
229 22.0 15.8 23.6

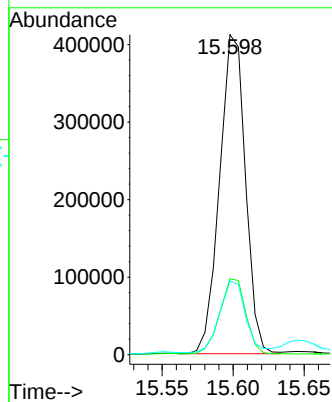
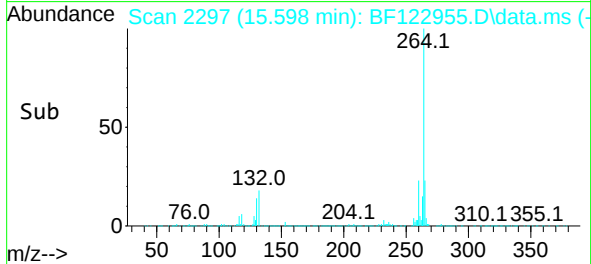




#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.598 min Scan# 2297  
Delta R.T. 0.006 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38



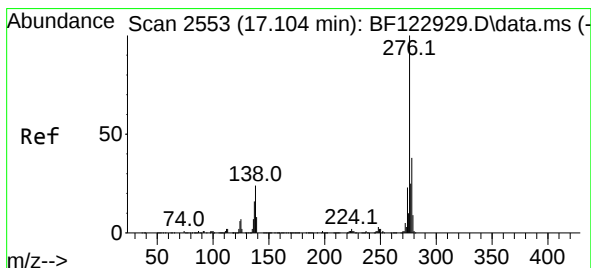
Tgt Ion:264 Resp: 520737  
Ion Ratio Lower Upper  
264 100  
260 23.7 18.6 28.0  
265 23.1 17.0 25.6



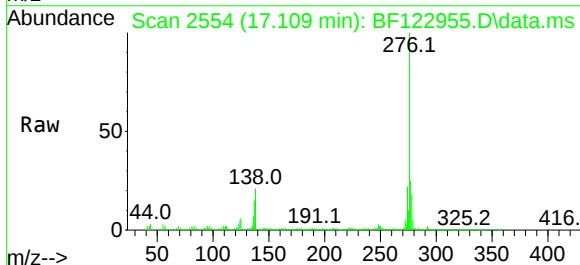
Instrument :  
BNA\_F  
ClientSampleId :  
PE-2

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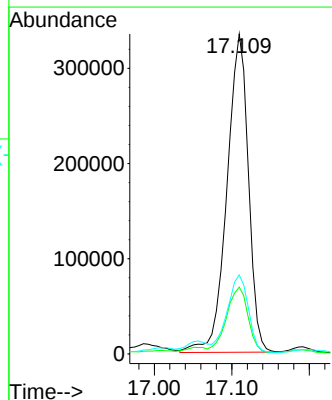
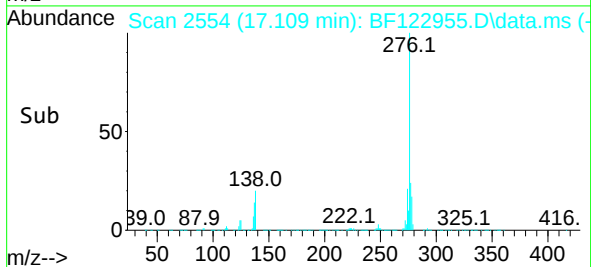
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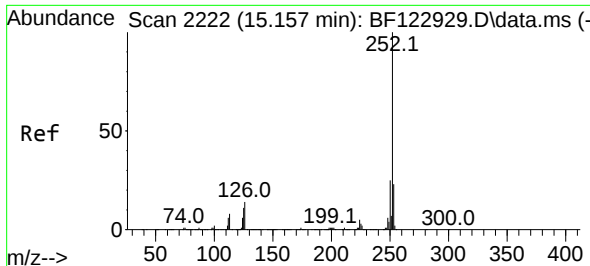


#87  
Indeno(1,2,3-cd)pyrene  
Concen: 19.17 ng  
RT: 17.109 min Scan# 2554  
Delta R.T. 0.006 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38



Tgt Ion:276 Resp: 645101  
Ion Ratio Lower Upper  
276 100  
138 20.6 18.7 28.1  
277 23.9 20.2 30.4





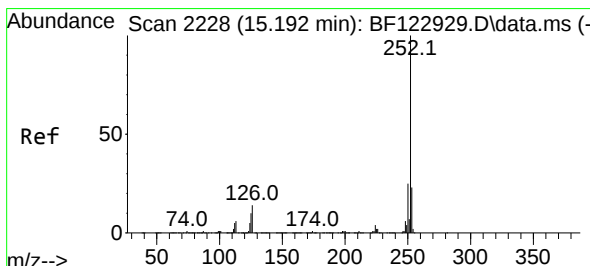
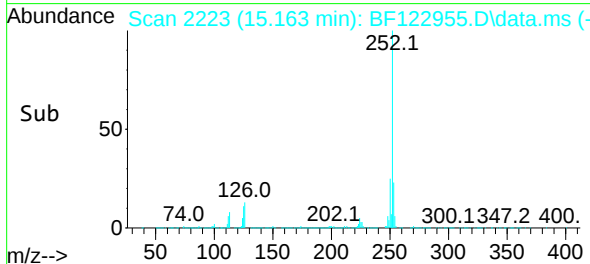
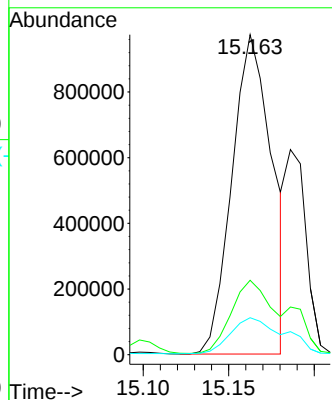
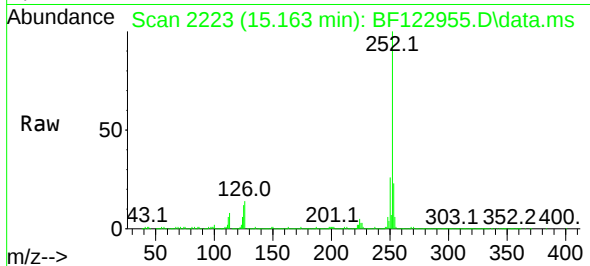
#88  
Benzo(b)fluoranthene  
Concen: 43.06 ng m  
RT: 15.163 min Scan# 2223  
Delta R.T. 0.006 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

Tgt Ion:252 Resp: 1576024  
Ion Ratio Lower Upper  
252 100  
253 23.3 18.3 27.5  
125 11.5 8.1 12.1

Instrument :  
BNA\_F  
ClientSampled :  
PE-2

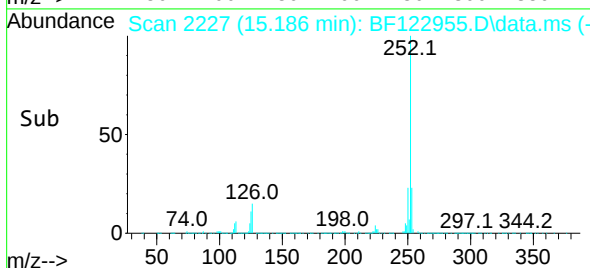
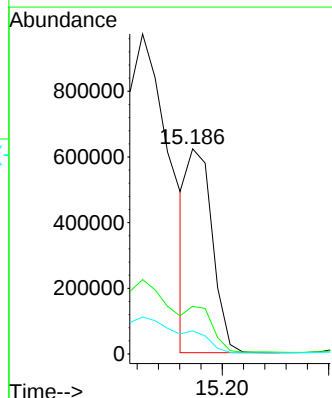
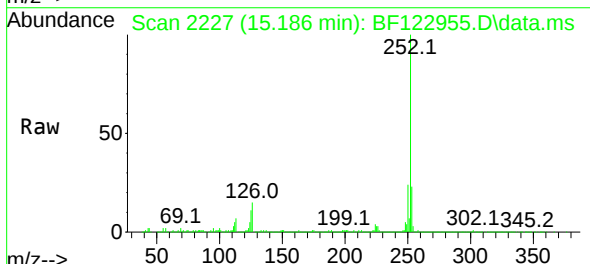
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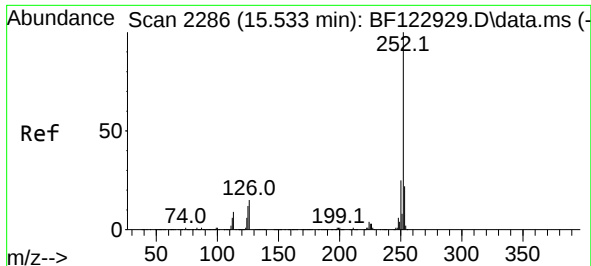
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#89  
Benzo(k)fluoranthene  
Concen: 14.92 ng m  
RT: 15.186 min Scan# 2227  
Delta R.T. -0.006 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

Tgt Ion:252 Resp: 502934  
Ion Ratio Lower Upper  
252 100  
253 23.3 17.8 26.8  
125 11.2 8.4 12.6





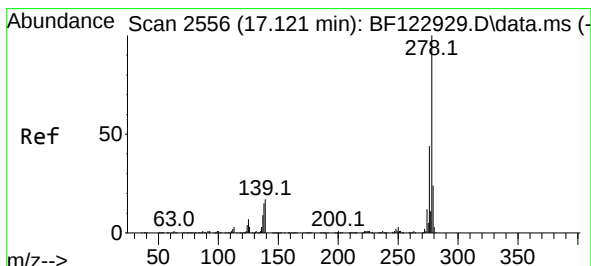
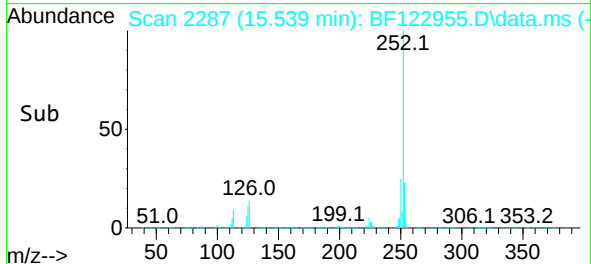
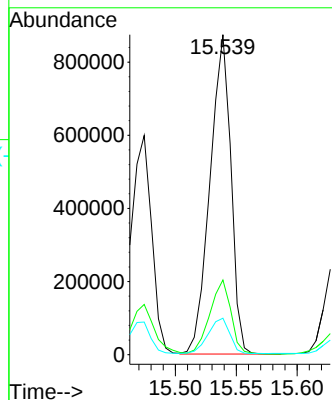
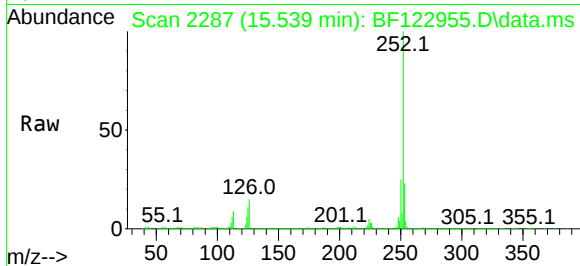
#90  
Benzo(a)pyrene  
Concen: 32.44 ng  
RT: 15.539 min Scan# 2287  
Delta R.T. 0.006 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

Tgt Ion:252 Resp: 1043616  
Ion Ratio Lower Upper  
252 100  
253 23.4 17.5 26.3  
125 11.4 8.6 12.8

Instrument :  
BNA\_F  
ClientSampleId :  
PE-2

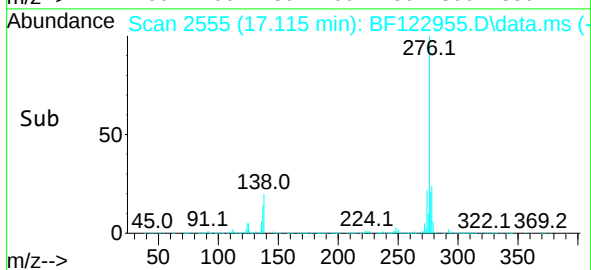
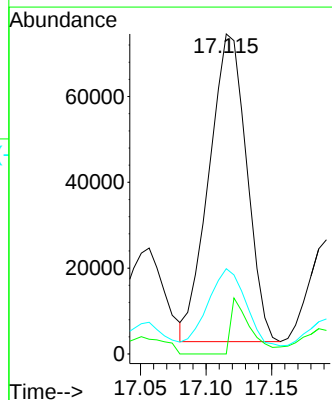
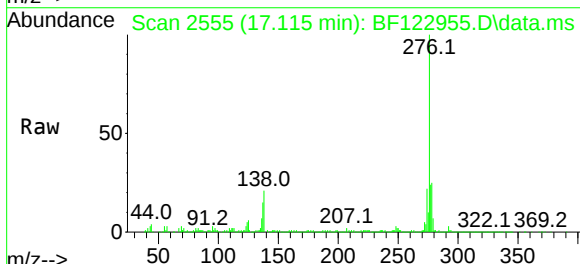
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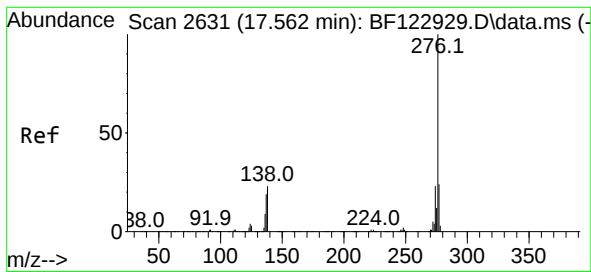
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#91  
Dibenzo(a,h)anthracene  
Concen: 5.20 ng m  
RT: 17.115 min Scan# 2555  
Delta R.T. -0.006 min  
Lab File: BF122955.D  
Acq: 8 Jan 2021 22:38

Tgt Ion:278 Resp: 143462  
Ion Ratio Lower Upper  
278 100  
139 0.0 12.0 18.0#  
279 26.6 19.4 29.2





#92  
 Benzo(g,h,i)perylene  
 Concen: 22.49 ng  
 RT: 17.568 min Scan# 2632  
 Delta R.T. 0.006 min  
 Lab File: BF122955.D  
 Acq: 8 Jan 2021 22:38

Tgt Ion: 276 Resp: 591179  
 Ion Ratio Lower Upper  
 276 100  
 277 24.9 19.3 28.9  
 138 22.4 16.6 24.8

Instrument :  
 BNA\_F  
 ClientSampleId :  
 PE-2

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