

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF101321\  
 Data File : BF125826.D  
 Acq On : 13 Oct 2021 14:46  
 Operator : JU/CG  
 Sample : M4127-08  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CHRT-26644

Manual Integrations  
 APPROVED

mohammad  
 10/14/2021 10:55:18 AM

Quant Time: Oct 14 01:19:20 2021  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF100721.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Oct 13 13:23:32 2021  
 Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|--------|------|----------|-------|-------|----------|
| -----                       |        |      |          |       |       |          |
| Internal Standards          |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 6.845  | 152  | 189773   | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8          | 8.122  | 136  | 718798   | 20.00 | ng    | # 0.00   |
| 39) Acenaphthene-d10        | 9.880  | 164  | 295733   | 20.00 | ng    | 0.00     |
| 64) Phenanthrene-d10        | 11.369 | 188  | 370875   | 20.00 | ng    | # 0.00   |
| 76) Chrysene-d12            | 13.998 | 240  | 443078   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12            | 15.451 | 264  | 383601   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds |        |      |          |       |       |          |
| 5) 2-Fluorophenol           | 5.457  | 112  | 1031301  | 88.78 | ng    | 0.00     |
| 7) Phenol-d6                | 6.469  | 99   | 1229681  | 82.23 | ng    | 0.00     |
| 23) Nitrobenzene-d5         | 7.404  | 82   | 718158   | 62.10 | ng    | 0.00     |
| 42) 2,4,6-Tribromophenol    | 10.669 | 330  | 221769   | 75.95 | ng    | 0.00     |
| 45) 2-Fluorobiphenyl        | 9.198  | 172  | 1213091  | 70.75 | ng    | 0.00     |
| 79) Terphenyl-d14           | 12.951 | 244  | 1008998  | 34.69 | ng    | 0.00     |
| Target Compounds            |        |      |          |       |       |          |
|                             |        |      |          |       |       | Qvalue   |
| 52) Acenaphthene            | 9.910  | 154  | 141433   | 8.76  | ng    | 98       |
| 55) Dibenzofuran            | 10.080 | 168  | 106567   | 4.40  | ng    | # 89     |
| 58) Fluorene                | 10.427 | 166  | 132709   | 7.49  | ng    | 93       |
| 71) Phenanthrene            | 11.398 | 178  | 567553   | 28.60 | ng    | # 95     |
| 72) Anthracene              | 11.445 | 178  | 111826m  | 5.64  | ng    |          |
| 75) Fluoranthene            | 12.586 | 202  | 680385   | 38.00 | ng    | 97       |
| 78) Pyrene                  | 12.810 | 202  | 527501   | 11.72 | ng    | 96       |
| 81) Benzo(a)anthracene      | 13.992 | 228  | 190700   | 6.63  | ng    | 97       |
| 83) Chrysene                | 14.027 | 228  | 184618   | 6.50  | ng    | 96       |
| 88) Benzo(b)fluoranthene    | 15.027 | 252  | 141215m  | 6.52  | ng    |          |
| 89) Benzo(k)fluoranthene    | 15.057 | 252  | 50059m   | 2.25  | ng    |          |
| 90) Benzo(a)pyrene          | 15.386 | 252  | 76578    | 3.99  | ng    | # 96     |
| -----                       |        |      |          |       |       |          |

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

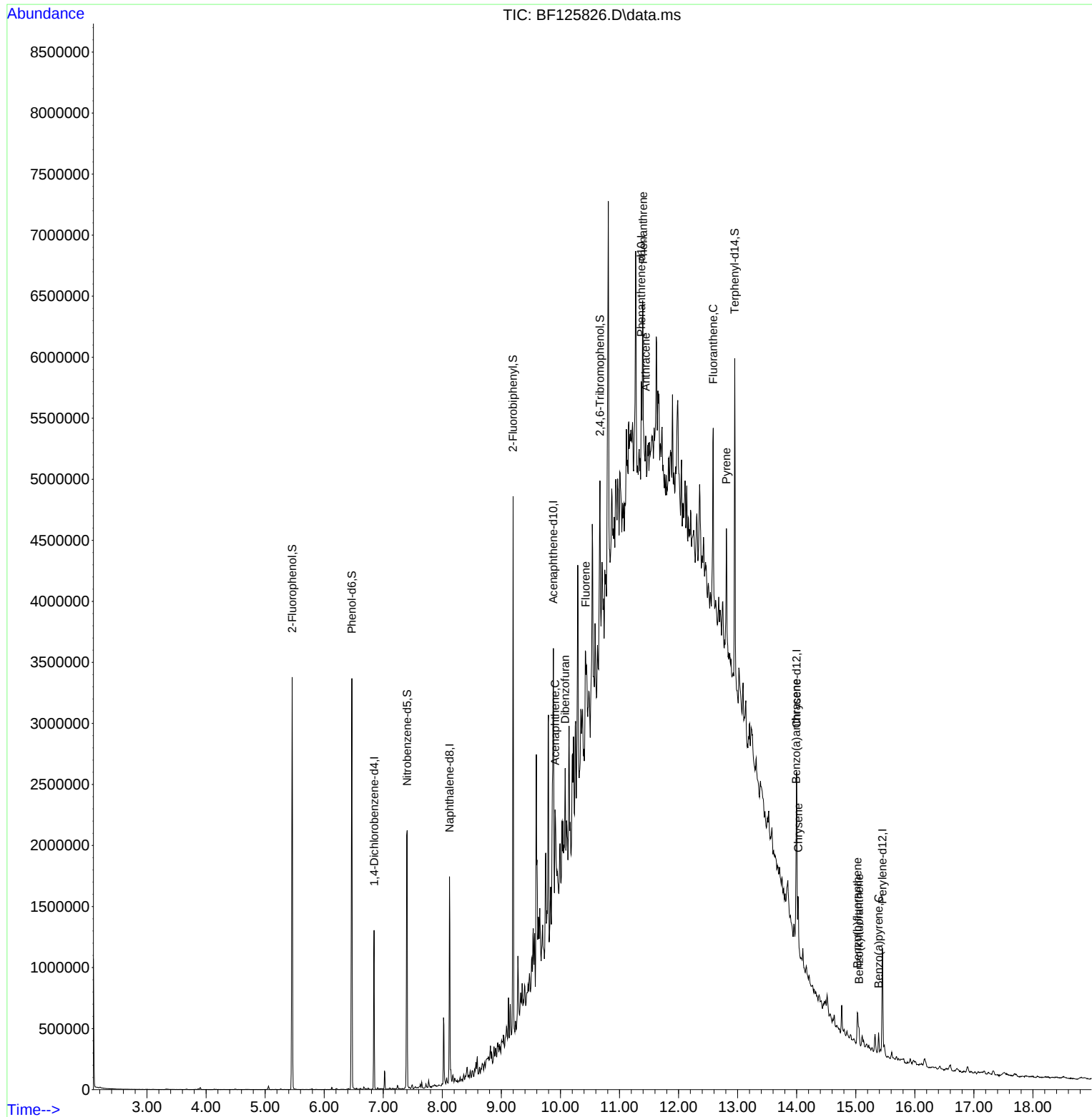
Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF101321\  
Data File : BF125826.D  
Acq On : 13 Oct 2021 14:46  
Operator : JU/CG  
Sample : M4127-08  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

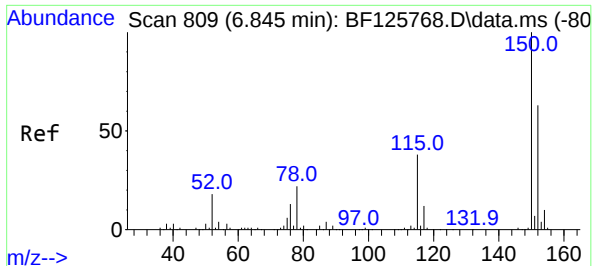
Instrument :  
BNA\_F  
ClientSampleId :  
CHRT-26644

Manual Integrations  
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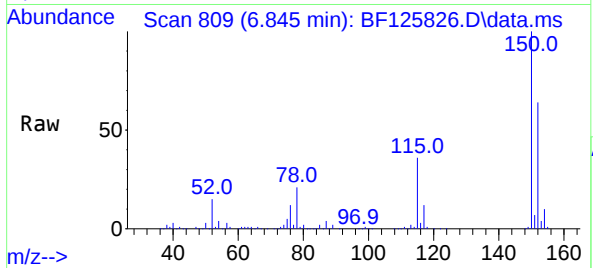
mohammad  
10/14/2021 10:55:18 AM

Quant Time: Oct 14 01:19:20 2021  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF100721.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Oct 13 13:23:32 2021  
Response via : Initial Calibration

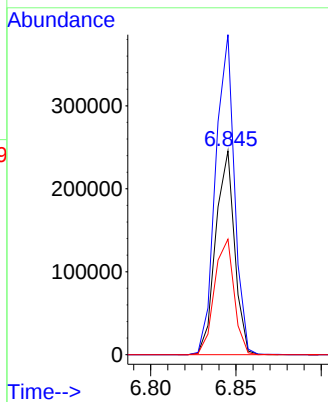
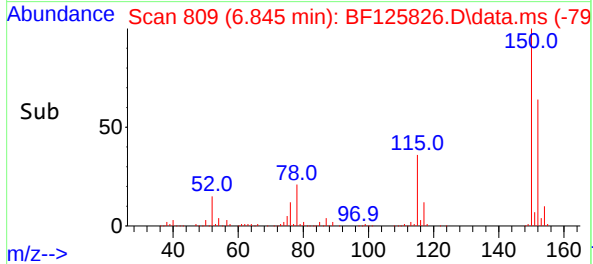




#1  
1,4-Dichlorobenzene-d4  
Concen: 20.00 ng  
RT: 6.845 min Scan# 809  
Delta R.T. 0.000 min  
Lab File: BF125826.D  
Acq: 13 Oct 2021 14:46



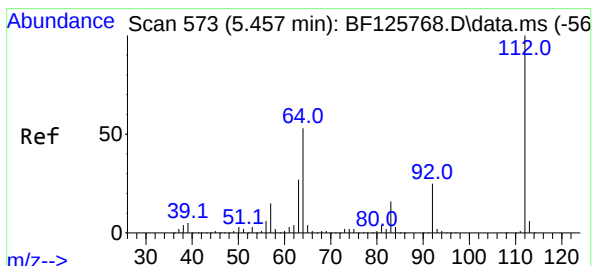
Tgt Ion:152 Resp: 189773  
Ion Ratio Lower Upper  
152 100  
150 157.1 117.6 176.4  
115 56.7 47.1 70.7



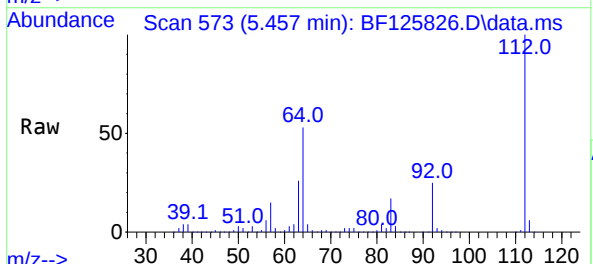
Instrument :  
BNA\_F  
ClientSampled :  
CHRT-26644

Manual Integrations  
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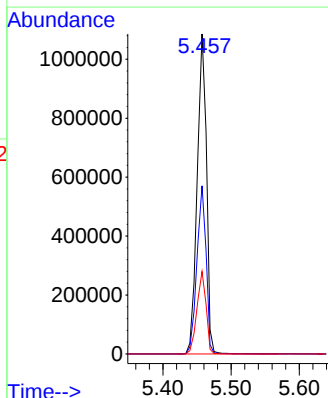
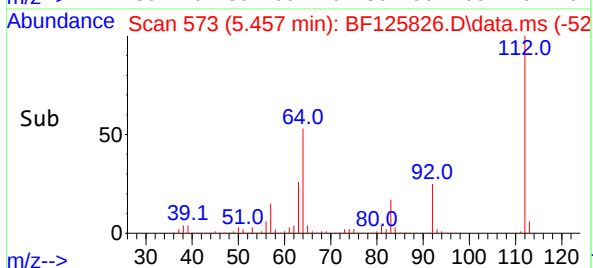
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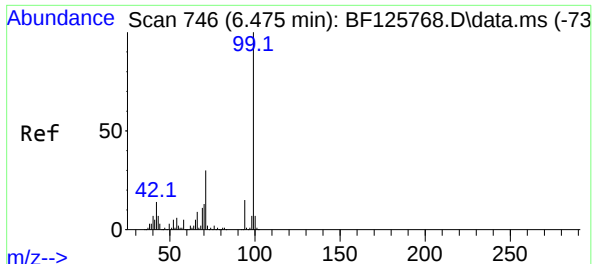


#5  
2-Fluorophenol  
Concen: 88.78 ng  
RT: 5.457 min Scan# 573  
Delta R.T. -0.006 min  
Lab File: BF125826.D  
Acq: 13 Oct 2021 14:46



Tgt Ion:112 Resp: 1031301  
Ion Ratio Lower Upper  
112 100  
64 52.5 44.2 66.2  
63 25.8 26.2 39.2#





#7  
Phenol-d6  
Concen: 82.23 ng  
RT: 6.469 min Scan# 745  
Delta R.T. -0.006 min  
Lab File: BF125826.D  
Acq: 13 Oct 2021 14:46

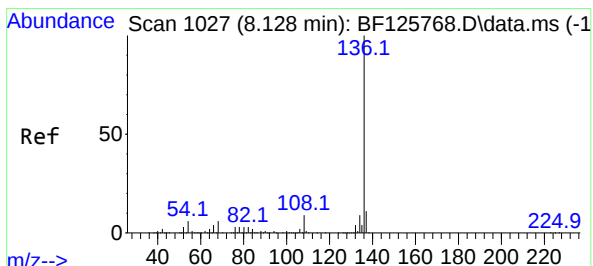
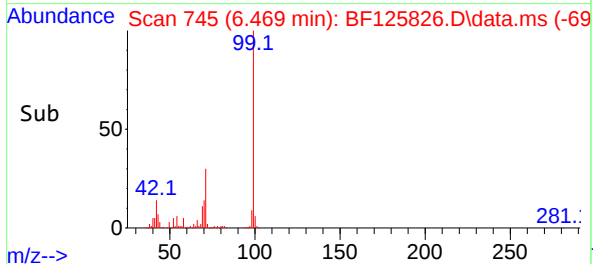
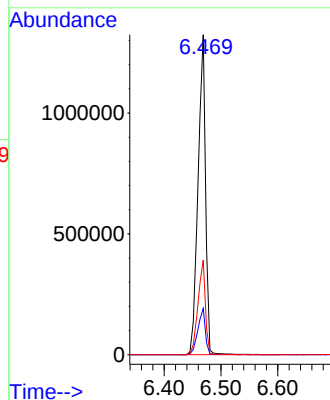
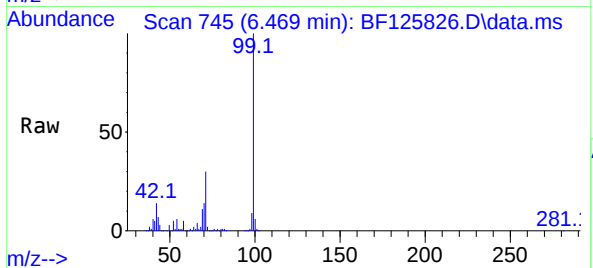
Tgt Ion: 99 Resp: 1229681

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 14.5  | 23.5  | 35.3# |
| 71  | 29.6  | 25.6  | 38.4  |

Instrument :  
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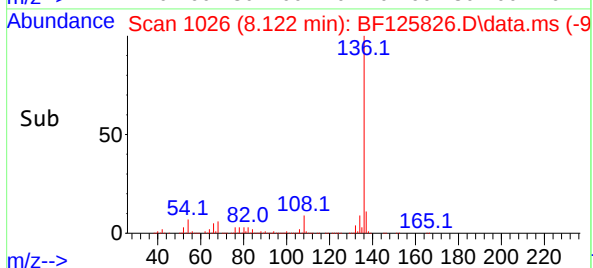
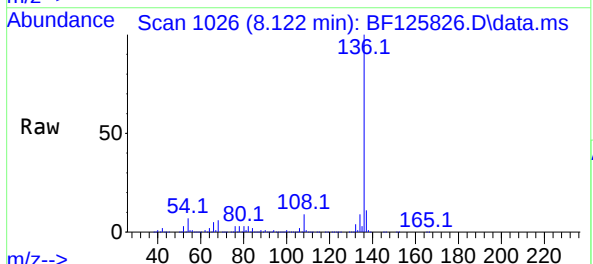
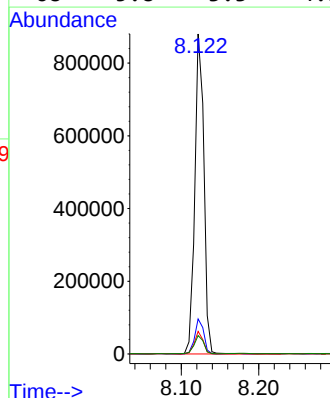
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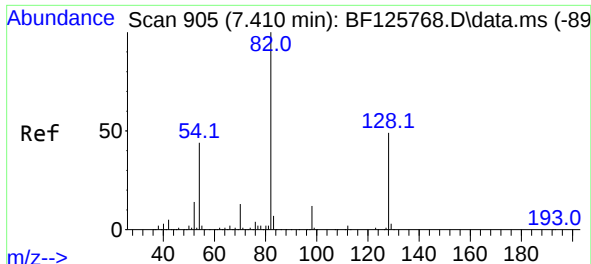


#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.122 min Scan# 1026  
Delta R.T. -0.006 min  
Lab File: BF125826.D  
Acq: 13 Oct 2021 14:46

Tgt Ion: 136 Resp: 718798

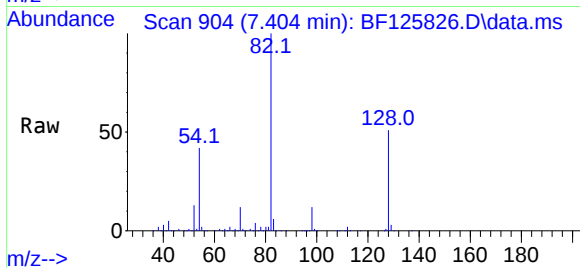
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 10.9  | 9.8   | 14.6  |
| 54  | 7.1   | 6.4   | 9.6   |
| 68  | 5.8   | 3.3   | 4.9#  |





#23  
Nitrobenzene-d5  
Concen: 62.10 ng  
RT: 7.404 min Scan# 904  
Delta R.T. -0.006 min  
Lab File: BF125826.D  
Acq: 13 Oct 2021 14:46

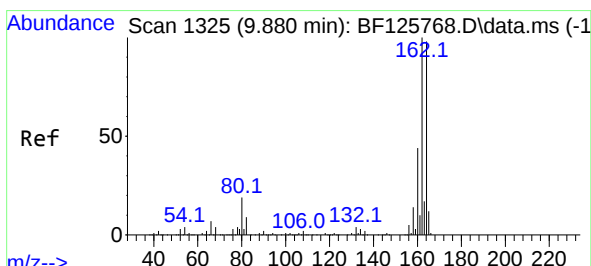
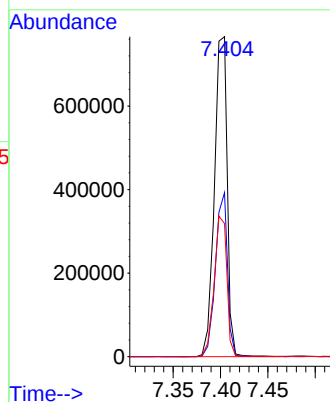
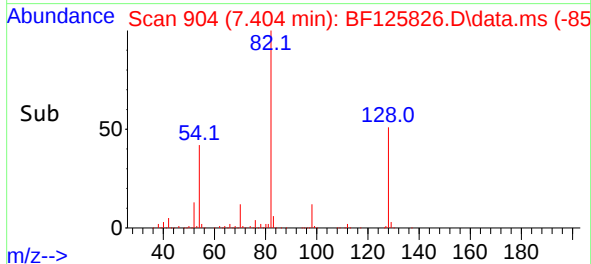
Instrument :  
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ClientSampleId :  
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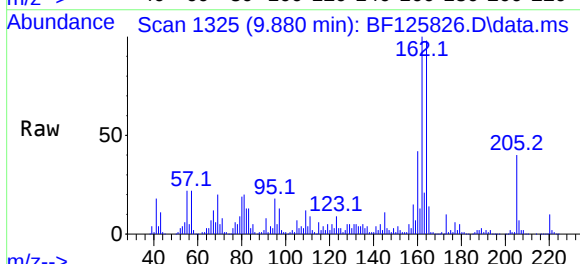
Tgt Ion: 82 Resp: 718158  
Ion Ratio Lower Upper  
82 100  
128 51.2 40.6 60.8  
54 41.6 49.6 74.4#

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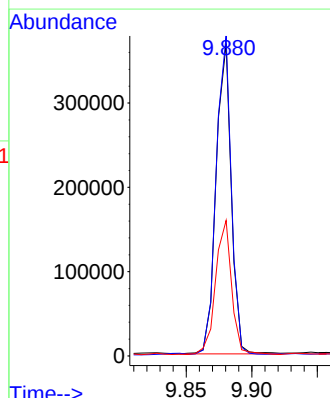
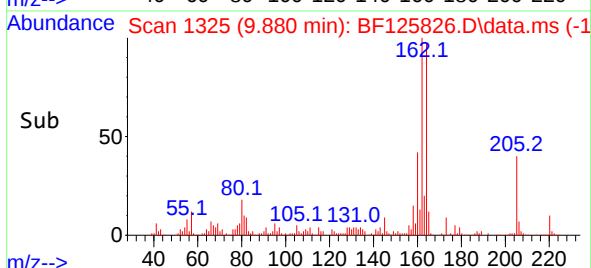
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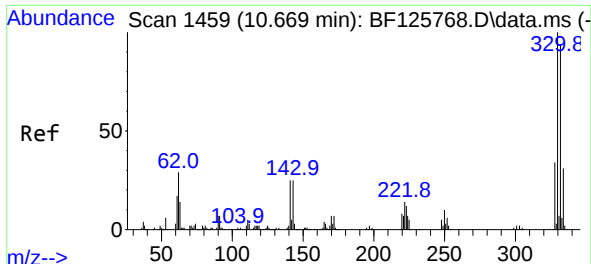


#39  
Acenaphthene-d10  
Concen: 20.00 ng  
RT: 9.880 min Scan# 1325  
Delta R.T. -0.000 min  
Lab File: BF125826.D  
Acq: 13 Oct 2021 14:46

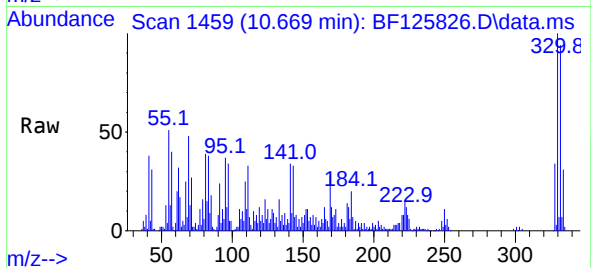


Tgt Ion: 164 Resp: 295733  
Ion Ratio Lower Upper  
164 100  
162 102.5 81.3 121.9  
160 43.4 38.0 57.0

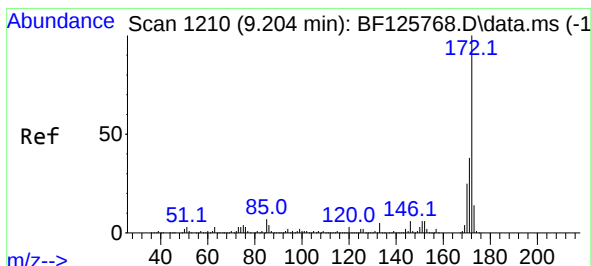
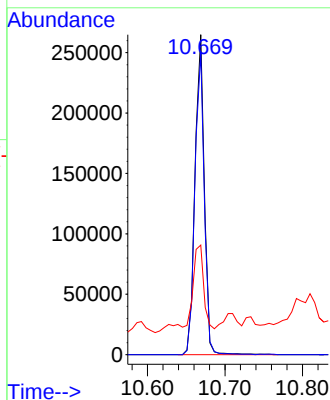
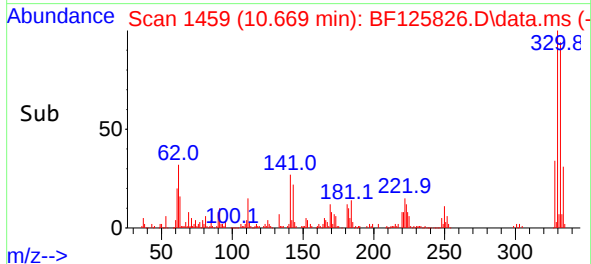




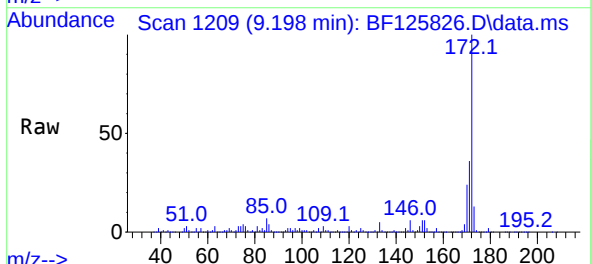
#42  
2,4,6-Tribromophenol  
Concen: 75.95 ng  
RT: 10.669 min Scan# 1459  
Delta R.T. -0.000 min  
Lab File: BF125826.D  
Acq: 13 Oct 2021 14:46



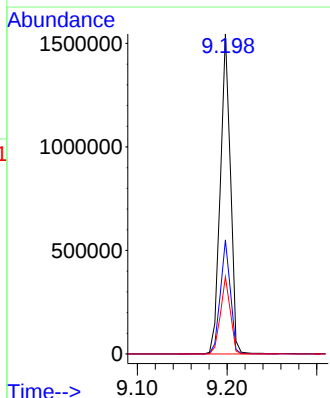
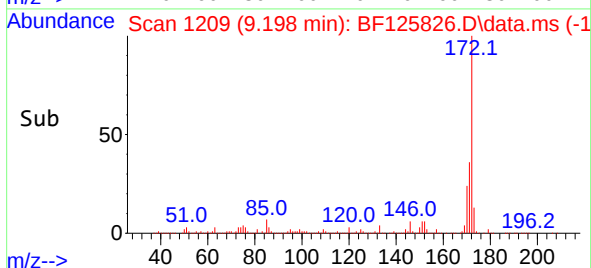
Tgt Ion: 330 Resp: 221769  
Ion Ratio Lower Upper  
330 100  
332 95.1 76.2 114.4  
141 28.7 44.6 66.8#



#45  
2-Fluorobiphenyl  
Concen: 70.75 ng  
RT: 9.198 min Scan# 1209  
Delta R.T. -0.006 min  
Lab File: BF125826.D  
Acq: 13 Oct 2021 14:46



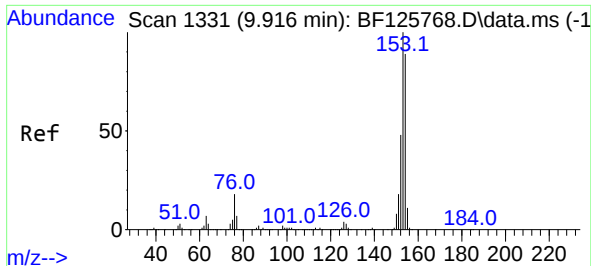
Tgt Ion: 172 Resp: 1213091  
Ion Ratio Lower Upper  
172 100  
171 35.6 26.5 39.7  
170 24.1 18.8 28.2



Instrument :  
BNA\_F  
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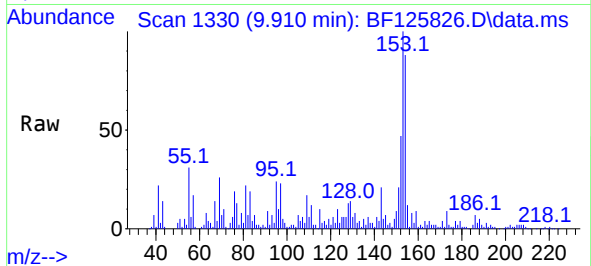
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#52  
Acenaphthene  
Concen: 8.76 ng  
RT: 9.910 min Scan# 1330  
Delta R.T. -0.006 min  
Lab File: BF125826.D  
Acq: 13 Oct 2021 14:46

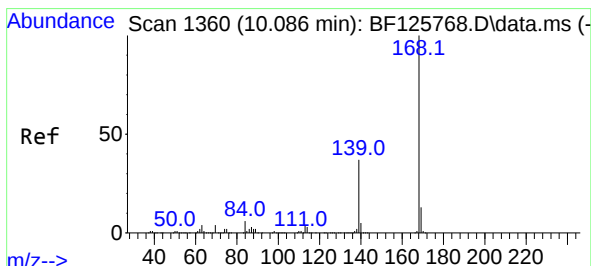
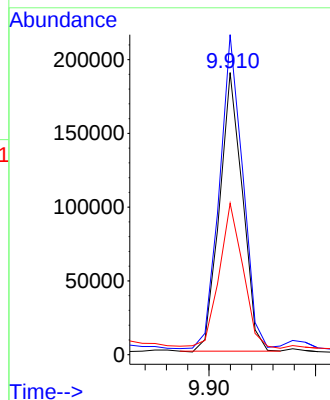
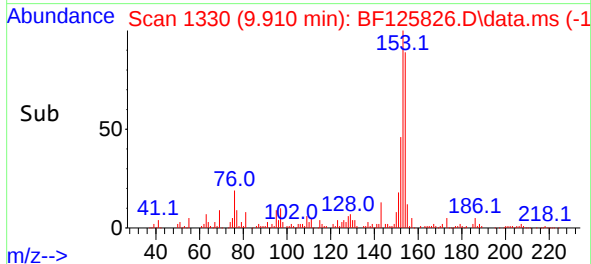
Instrument :  
BNA\_F  
ClientSampleId :  
CHRT-26644



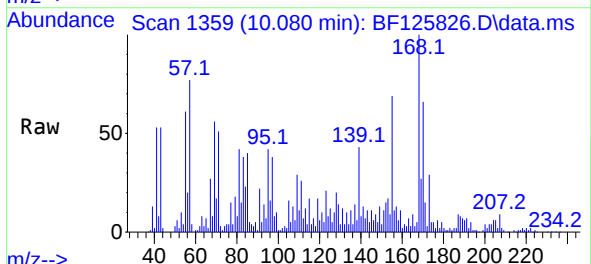
Tgt Ion:154 Resp: 141433  
Ion Ratio Lower Upper  
154 100  
153 113.4 89.4 134.2  
152 53.7 40.5 60.7

Manual Integrations  
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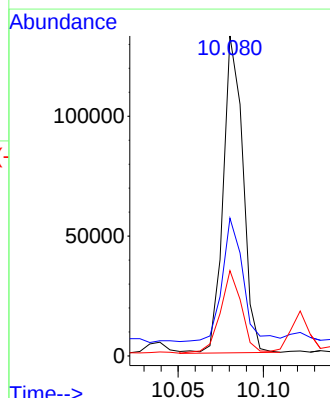
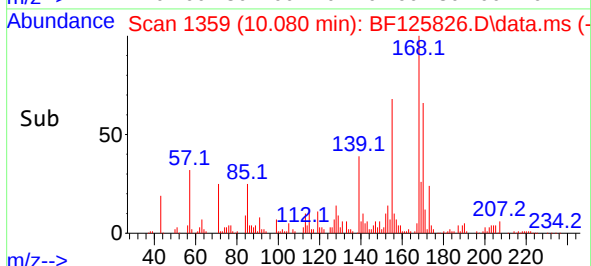
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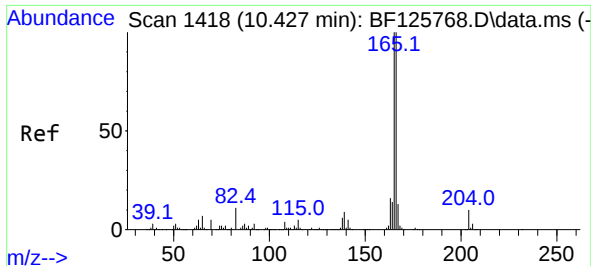


#55  
Dibenzofuran  
Concen: 4.40 ng  
RT: 10.080 min Scan# 1359  
Delta R.T. -0.006 min  
Lab File: BF125826.D  
Acq: 13 Oct 2021 14:46



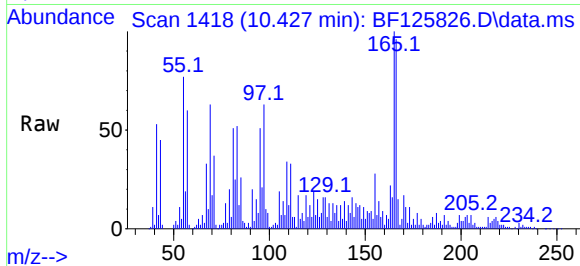
Tgt Ion:168 Resp: 106567  
Ion Ratio Lower Upper  
168 100  
139 43.0 32.7 49.1  
169 26.7 11.2 16.8#





#58  
Fluorene  
Concen: 7.49 ng  
RT: 10.427 min Scan# 1418  
Delta R.T. -0.000 min  
Lab File: BF125826.D  
Acq: 13 Oct 2021 14:46

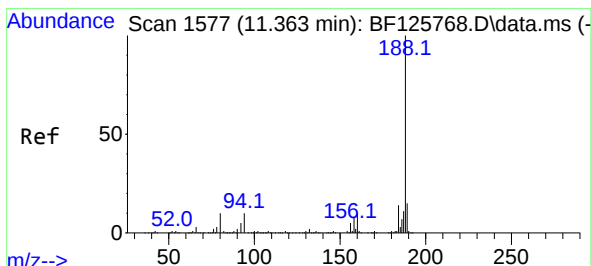
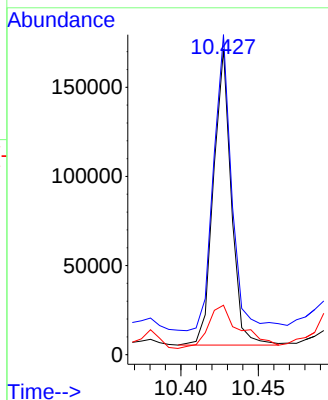
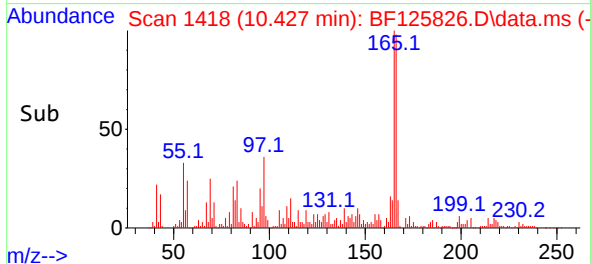
Instrument :  
BNA\_F  
ClientSampleId :  
CHRT-26644



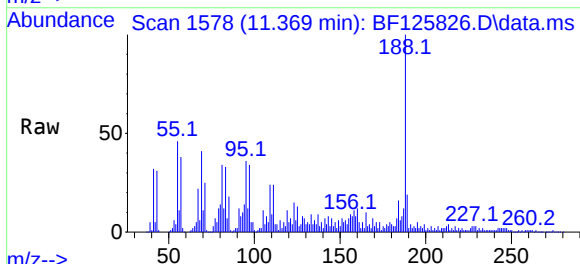
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Ion Ratio Lower Upper  
166 100  
165 104.7 78.1 117.1  
167 16.1 11.1 16.7

Manual Integrations  
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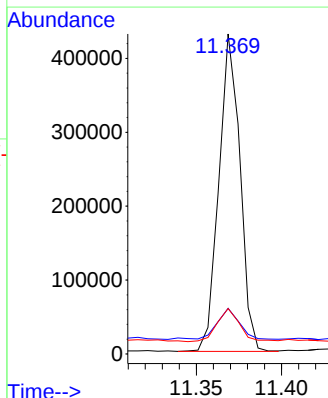
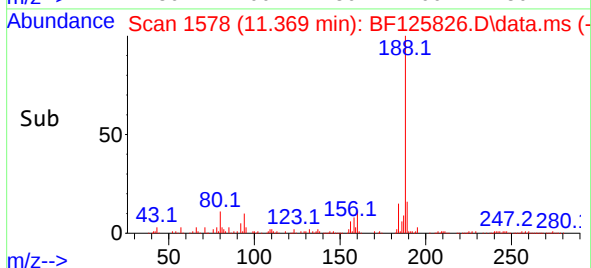
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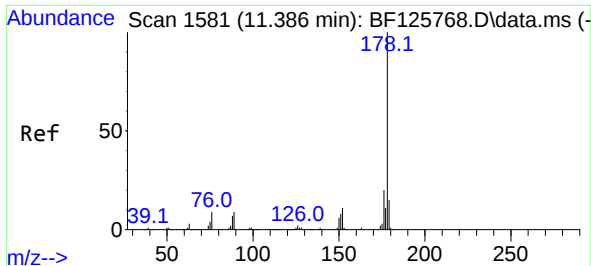


#64  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.369 min Scan# 1578  
Delta R.T. 0.006 min  
Lab File: BF125826.D  
Acq: 13 Oct 2021 14:46



Tgt Ion:188 Resp: 370875  
Ion Ratio Lower Upper  
188 100  
94 14.2 6.7 10.1#  
80 14.2 7.5 11.3#





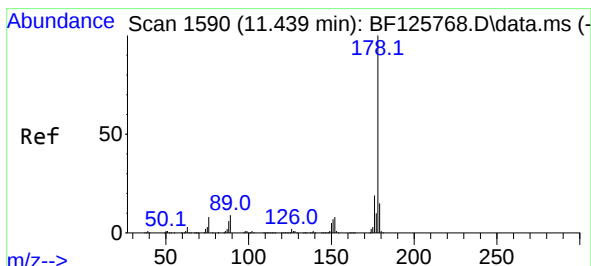
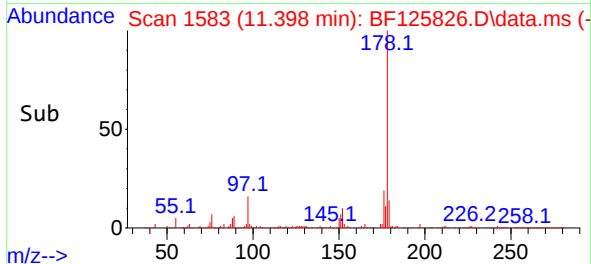
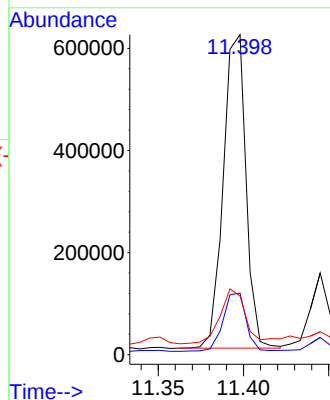
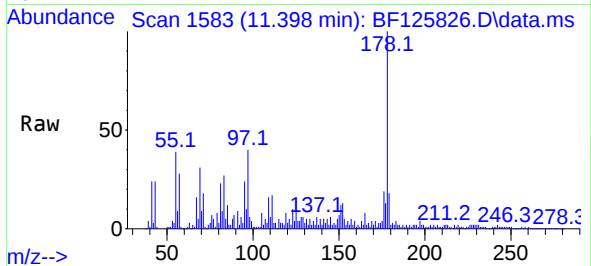
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Phenanthrene  
Concen: 28.60 ng  
RT: 11.398 min Scan# 1583  
Delta R.T. 0.006 min  
Lab File: BF125826.D  
Acq: 13 Oct 2021 14:46

Tgt Ion:178 Resp: 567553  
Ion Ratio Lower Upper  
178 100  
176 19.3 14.7 22.1  
179 18.3 11.5 17.3#

Instrument :  
BNA\_F  
ClientSampleId :  
CHRT-26644

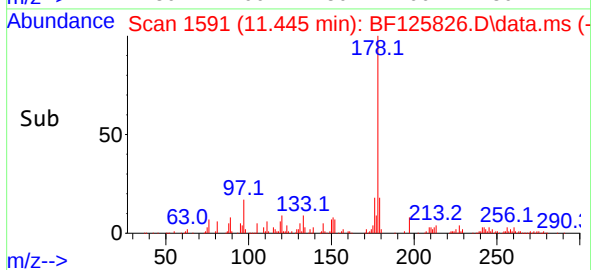
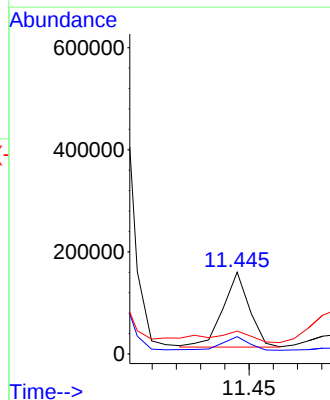
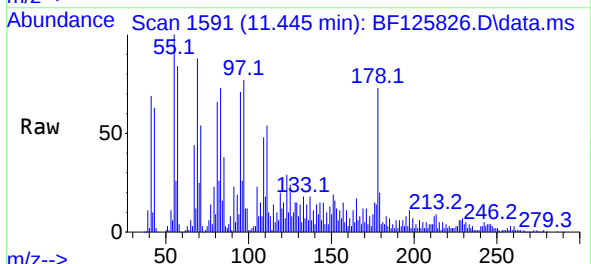
Manual Integrations  
APPROVED

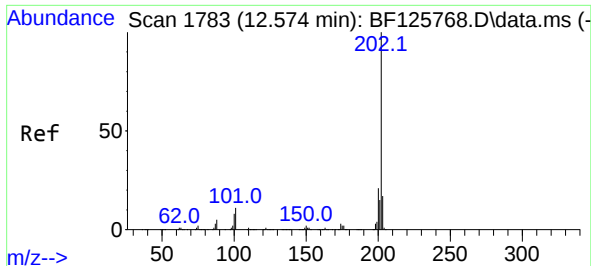
mohammad  
10/14/2021 10:55:18 AM



#72  
Anthracene  
Concen: 5.64 ng m  
RT: 11.445 min Scan# 1591  
Delta R.T. 0.006 min  
Lab File: BF125826.D  
Acq: 13 Oct 2021 14:46

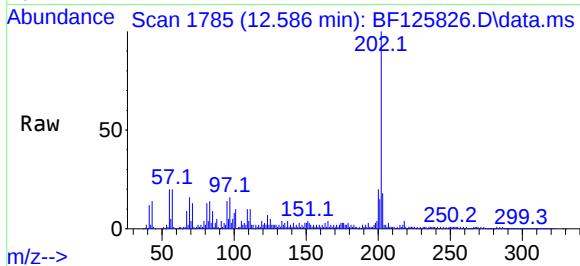
Tgt Ion:178 Resp: 111826  
Ion Ratio Lower Upper  
178 100  
176 21.2 14.3 21.5  
179 27.9 12.2 18.4#





#75  
Fluoranthene  
Concen: 38.00 ng  
RT: 12.586 min Scan# 1785  
Delta R.T. 0.012 min  
Lab File: BF125826.D  
Acq: 13 Oct 2021 14:46

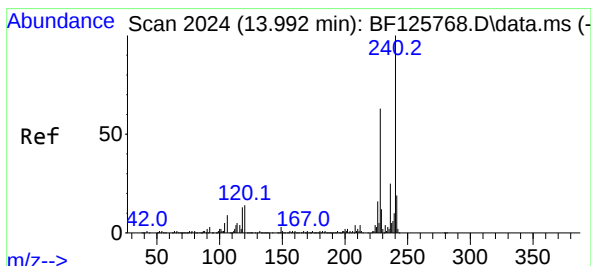
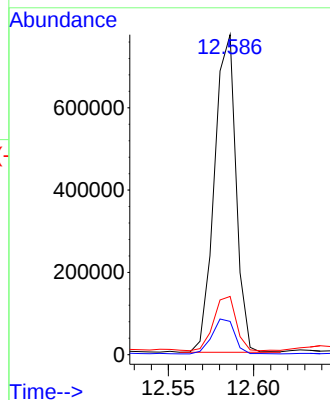
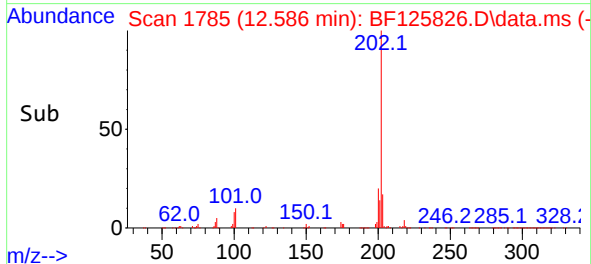
Instrument :  
BNA\_F  
ClientSampleId :  
CHRT-26644



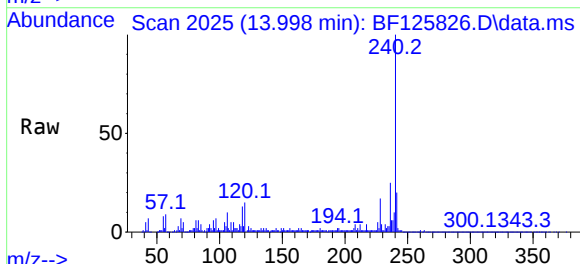
Tgt Ion:202 Resp: 680385  
Ion Ratio Lower Upper  
202 100  
101 10.4 0.0 30.7  
203 18.2 0.0 36.3

Manual Integrations  
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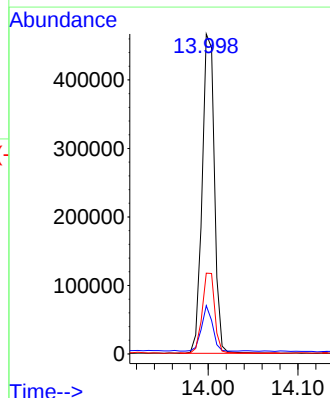
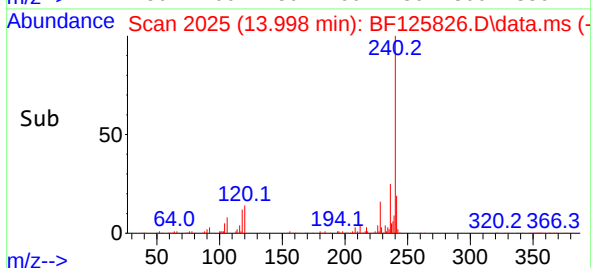
mohammad  
10/14/2021 10:55:18 AM

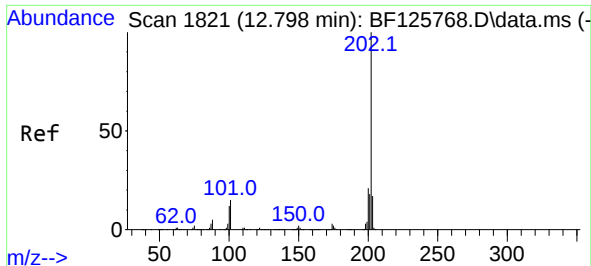


#76  
Chrysene-d12  
Concen: 20.00 ng  
RT: 13.998 min Scan# 2025  
Delta R.T. -0.000 min  
Lab File: BF125826.D  
Acq: 13 Oct 2021 14:46



Tgt Ion:240 Resp: 443078  
Ion Ratio Lower Upper  
240 100  
120 15.1 10.8 16.2  
236 25.2 21.6 32.4





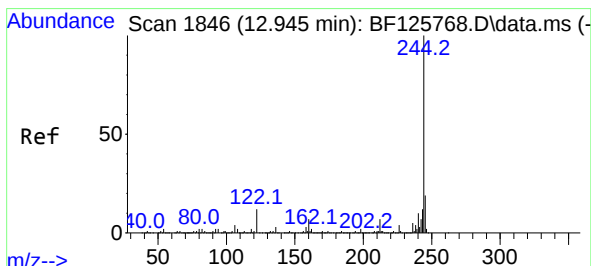
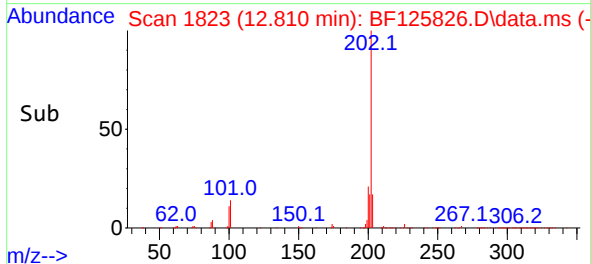
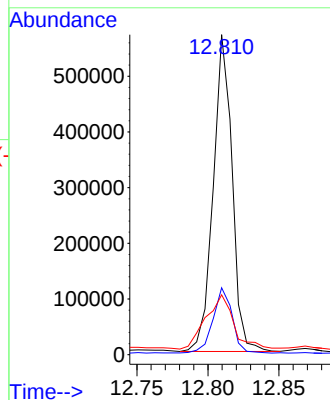
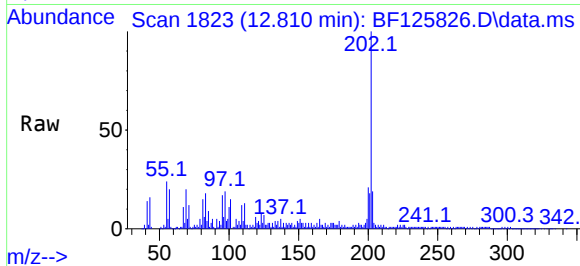
#78  
Pyrene  
Concen: 11.72 ng  
RT: 12.810 min Scan# 1823  
Delta R.T. 0.006 min  
Lab File: BF125826.D  
Acq: 13 Oct 2021 14:46

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 527501 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 200       | 20.9  | 15.3  | 22.9   |
| 203       | 18.7  | 13.4  | 20.0   |

Instrument :  
BNA\_F  
ClientSampleId :  
CHRT-26644

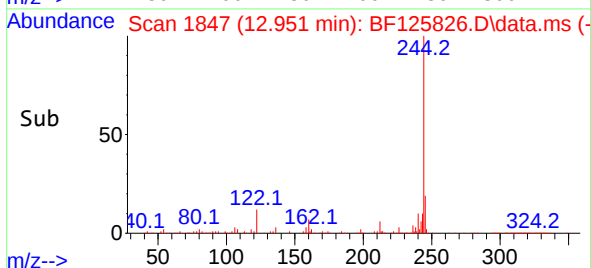
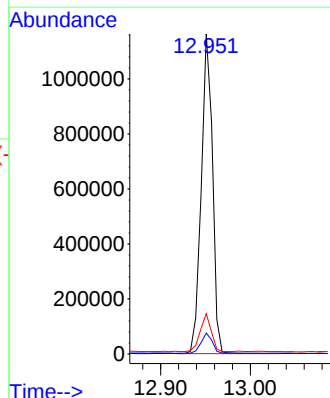
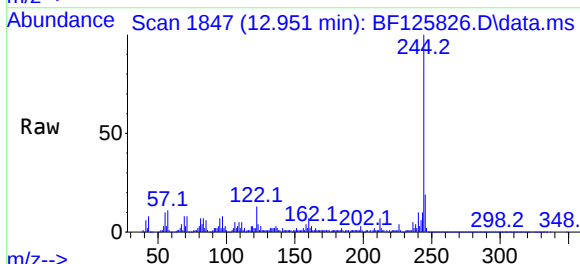
Manual Integrations  
APPROVED

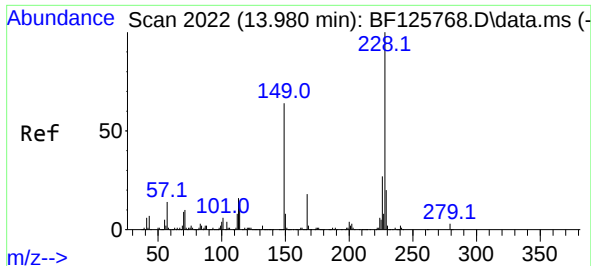
mohammad  
10/14/2021 10:55:18 AM



#79  
Terphenyl-d14  
Concen: 34.69 ng  
RT: 12.951 min Scan# 1847  
Delta R.T. 0.006 min  
Lab File: BF125826.D  
Acq: 13 Oct 2021 14:46

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 244   | Resp: | 1008998 |
| Ion Ratio | Lower | Upper |         |
| 244       | 100   |       |         |
| 212       | 6.5   | 5.9   | 8.9     |
| 122       | 12.6  | 9.0   | 13.4    |





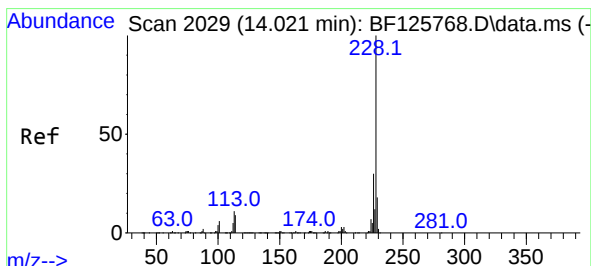
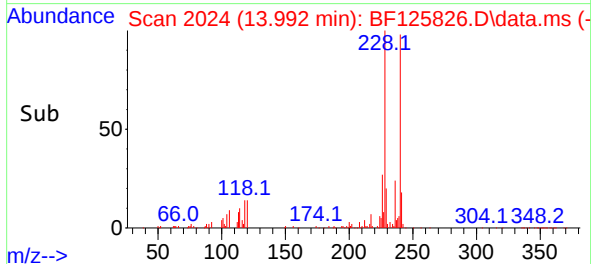
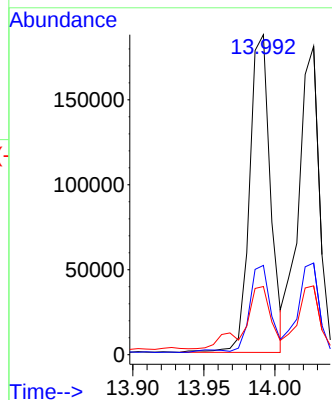
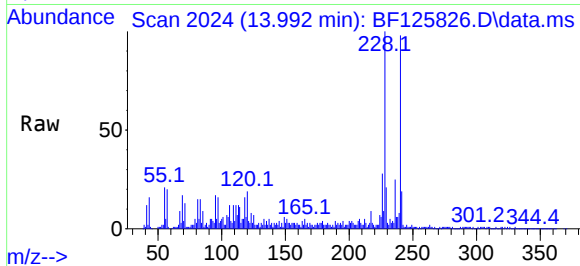
#81  
Benzo(a)anthracene  
Concen: 6.63 ng  
RT: 13.992 min Scan# 2024  
Delta R.T. 0.006 min  
Lab File: BF125826.D  
Acq: 13 Oct 2021 14:46

Tgt Ion:228 Resp: 190700  
Ion Ratio Lower Upper  
228 100  
226 27.9 21.6 32.4  
229 21.3 15.6 23.4

Instrument :  
BNA\_F  
ClientSampled :  
CHRT-26644

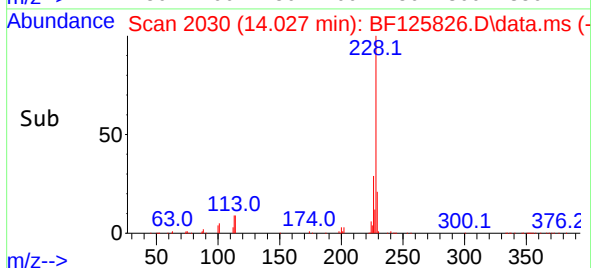
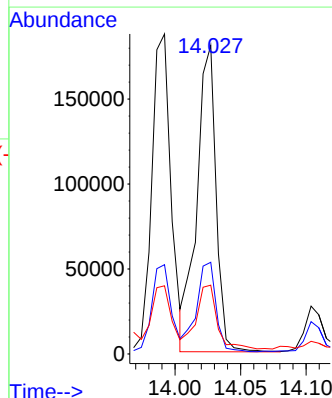
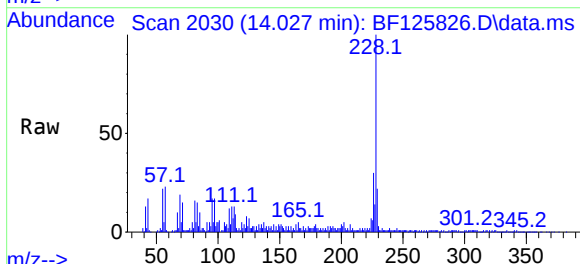
Manual Integrations  
APPROVED

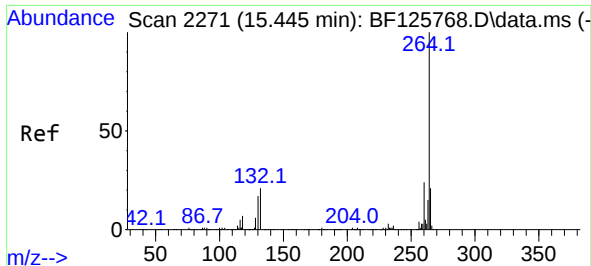
mohammad  
10/14/2021 10:55:18 AM



#83  
Chrysene  
Concen: 6.50 ng  
RT: 14.027 min Scan# 2030  
Delta R.T. -0.000 min  
Lab File: BF125826.D  
Acq: 13 Oct 2021 14:46

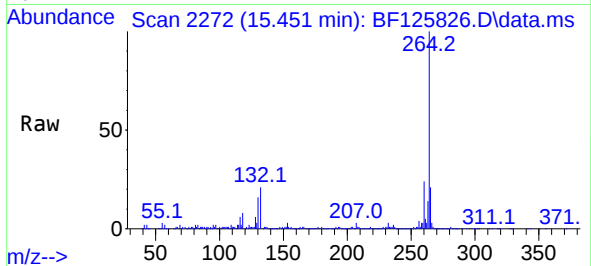
Tgt Ion:228 Resp: 184618  
Ion Ratio Lower Upper  
228 100  
226 29.7 22.6 34.0  
229 22.3 15.9 23.9





#86  
Perylene-d12  
Concen: 20.00 ng  
RT: 15.451 min Scan# 2272  
Delta R.T. -0.000 min  
Lab File: BF125826.D  
Acq: 13 Oct 2021 14:46

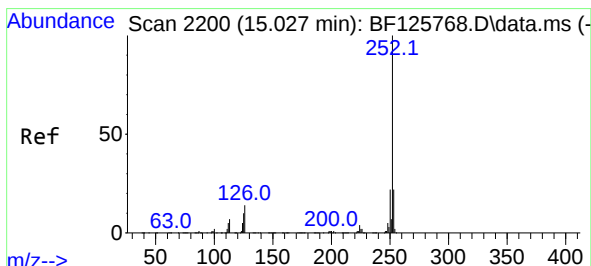
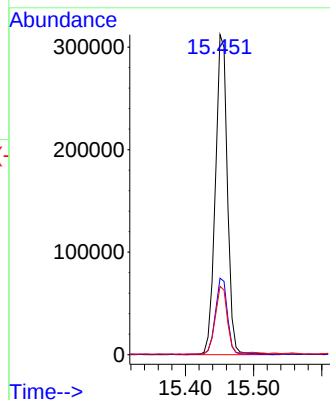
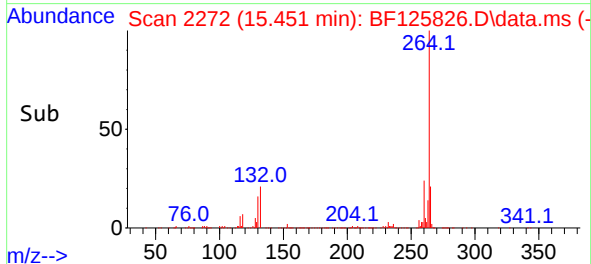
Instrument :  
BNA\_F  
ClientSampleId :  
CHRT-26644



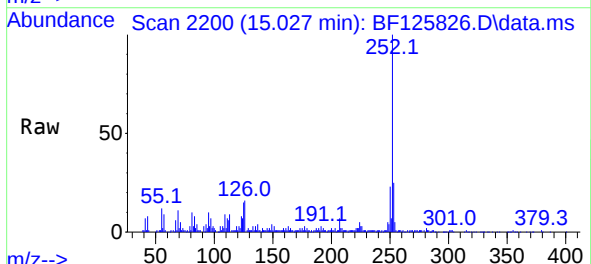
Tgt Ion:264 Resp: 383601  
Ion Ratio Lower Upper  
264 100  
260 23.9 19.6 29.4  
265 21.4 17.2 25.8

Manual Integrations  
APPROVED

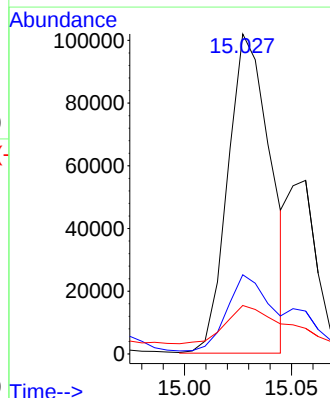
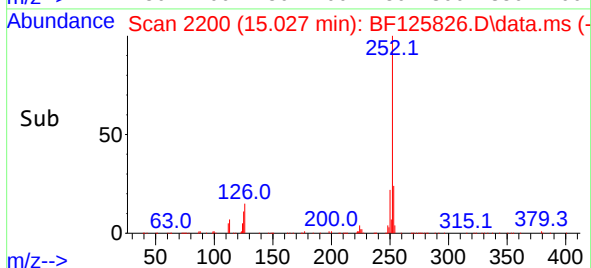
mohammad  
10/14/2021 10:55:18 AM

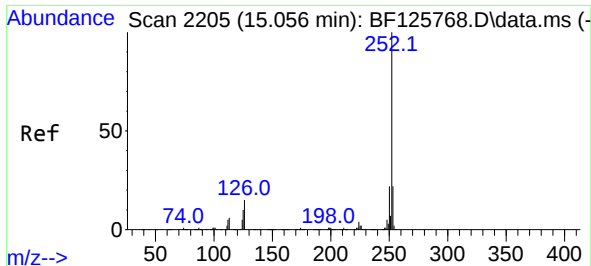


#88  
Benzo(b)fluoranthene  
Concen: 6.52 ng m  
RT: 15.027 min Scan# 2200  
Delta R.T. -0.000 min  
Lab File: BF125826.D  
Acq: 13 Oct 2021 14:46



Tgt Ion:252 Resp: 141215  
Ion Ratio Lower Upper  
252 100  
253 24.7 16.8 25.2  
125 15.2 9.8 14.8#





#89

Benzo(k)fluoranthene

Concen: 2.25 ng m

RT: 15.057 min Scan# 2205

Delta R.T. -0.006 min

Lab File: BF125826.D

Acq: 13 Oct 2021 14:46

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 50059 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.7  | 17.8  | 26.8  |
| 125       | 14.8  | 7.2   | 10.8# |

Instrument :

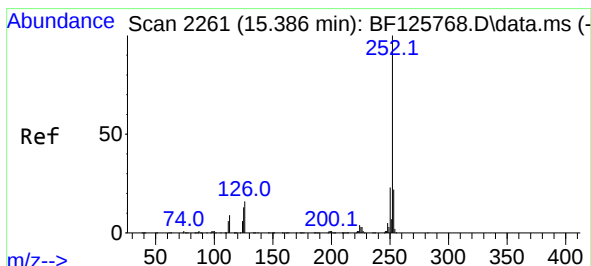
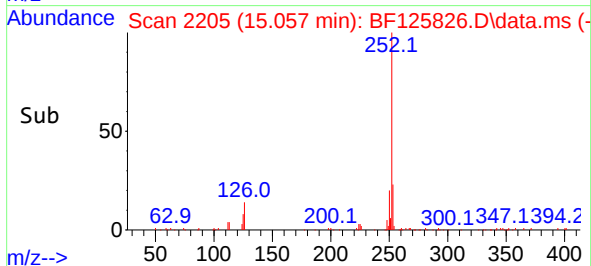
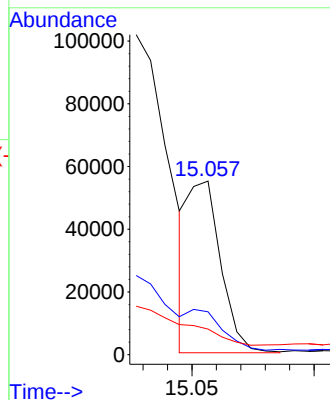
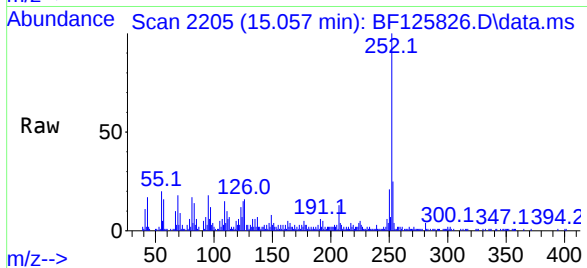
BNA\_F

ClientSampleId :

CHRT-26644

Manual Integrations  
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10/14/2021 10:55:18 AM



#90

Benzo(a)pyrene

Concen: 3.99 ng

RT: 15.386 min Scan# 2261

Delta R.T. -0.006 min

Lab File: BF125826.D

Acq: 13 Oct 2021 14:46

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 76578 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.3  | 18.4  | 27.6  |
| 125       | 15.5  | 9.9   | 14.9# |

