

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE032319\  
 Data File : BE099116.D  
 Acq On : 23 Mar 2019 17:39  
 Operator : JU/SJ  
 Sample : K2014-12  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PST-026-B121-031919

Manual Integrations  
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 3/25/2019 12:37:05 PM

Quant Time: Mar 24 03:28:13 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE032219.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Mar 23 04:40:11 2019  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min)  |
|--------------------------------|-------|------|----------|-------|-------|-----------|
| 1) 1,4-Dichlorobenzene-d4      | 7.84  | 152  | 3538     | 0.40  | ng    | 0.00      |
| 7) Naphthalene-d8              | 10.63 | 136  | 13950    | 0.40  | ng    | -0.01     |
| 13) Acenaphthene-d10           | 14.49 | 164  | 9216     | 0.40  | ng    | 0.00      |
| 19) Phenanthrene-d10           | 17.21 | 188  | 26396    | 0.40  | ng    | 0.00      |
| 27) Chrysene-d12               | 21.38 | 240  | 38595    | 0.40  | ng    | -0.01     |
| 34) Perylene-d12               | 23.90 | 264  | 41998    | 0.40  | ng    | 0.00      |
| System Monitoring Compounds    |       |      |          |       |       |           |
| 4) 2-Fluorophenol              | 5.41  | 112  | 4222     | 0.40  | ng    | 0.00      |
| 5) Phenol-d6                   | 6.99  | 99   | 6175     | 0.41  | ng    | 0.00      |
| 8) Nitrobenzene-d5             | 8.99  | 82   | 4061     | 0.67  | ng    | -0.01     |
| 11) 2-Methylnaphthalene-d10    | 12.22 | 152  | 8810     | 0.35  | ng    | -0.01     |
| 14) 2,4,6-Tribromophenol       | 15.96 | 330  | 1583     | 0.58  | ng    | 0.00      |
| 15) 2-Fluorobiphenyl           | 13.10 | 172  | 13464    | 0.37  | ng    | -0.01     |
| 25) Fluoranthene-d10           | 19.24 | 212  | 133979   | 0.38  | ng    | 0.00      |
| 29) Terphenyl-d14              | 19.83 | 244  | 26235    | 0.32  | ng    | 0.00      |
| Target Compounds               |       |      |          |       |       |           |
| 16) Acenaphthylene             | 14.20 | 152  | 1101     | 0.022 | ng    | Qvalue 96 |
| 23) Phenanthrene               | 17.25 | 178  | 8839     | 0.113 | ng    | 99        |
| 26) Fluoranthene               | 19.27 | 202  | 16406    | 0.149 | ng    | # 96      |
| 28) Pyrene                     | 19.63 | 202  | 20230    | 0.155 | ng    | 96        |
| 30) Benzo(a)anthracene         | 21.37 | 228  | 10197    | 0.075 | ng    | 94        |
| 31) Chrysene                   | 21.42 | 228  | 11023    | 0.081 | ng    | 94        |
| 32) Bis(2-ethylhexyl)phthalate | 21.29 | 149  | 24245    | 0.137 | ng    | 99        |
| 33) Indeno(1,2,3-cd)pyrene     | 26.54 | 276  | 6621     | 0.045 | ng    | 97        |
| 35) Benzo(b)fluoranthene       | 23.12 | 252  | 13493    | 0.093 | ng    | # 84      |
| 36) Benzo(k)fluoranthene       | 23.17 | 252  | 4478m    | 0.031 | ng    |           |
| 37) Benzo(a)pyrene             | 23.78 | 252  | 9814     | 0.073 | ng    | # 89      |
| 39) Benzo(a,h,i)perylene       | 27.37 | 276  | 7451     | 0.056 | ng    | 96        |

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

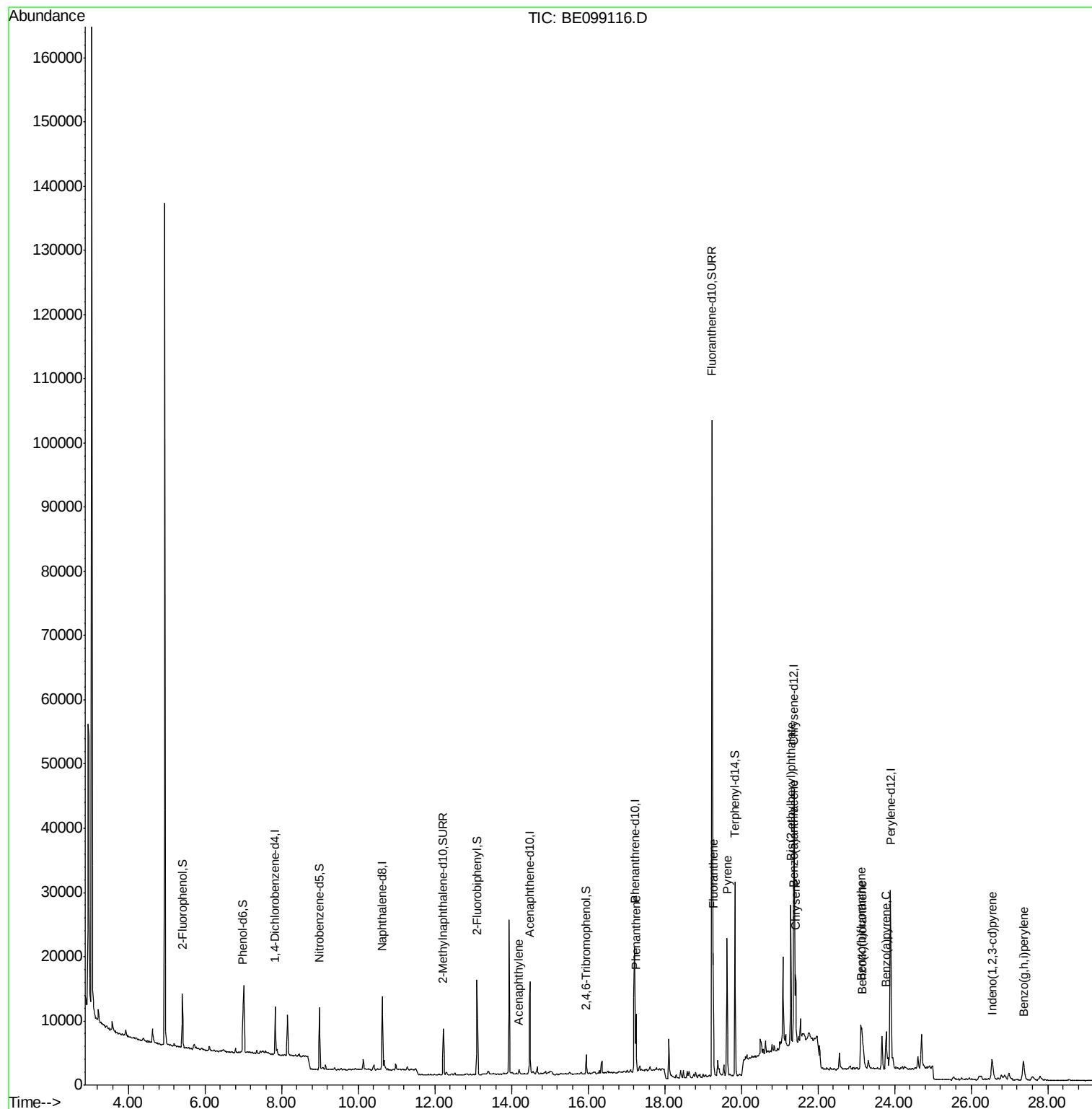
Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE032319\  
Data File : BE099116.D  
Acq On : 23 Mar 2019 17:39  
Operator : JU/SJ  
Sample : K2014-12  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
PST-026-B121-031919

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QLast Update : Sat Mar 23 04:40:11 2019  
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#1

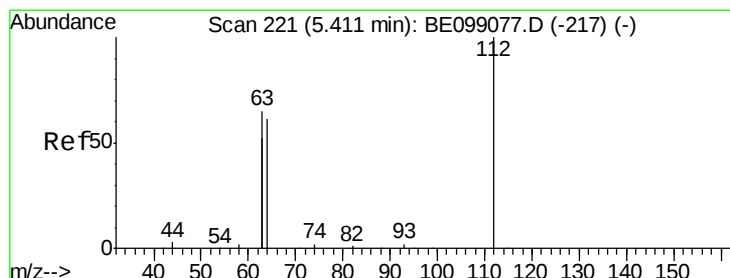
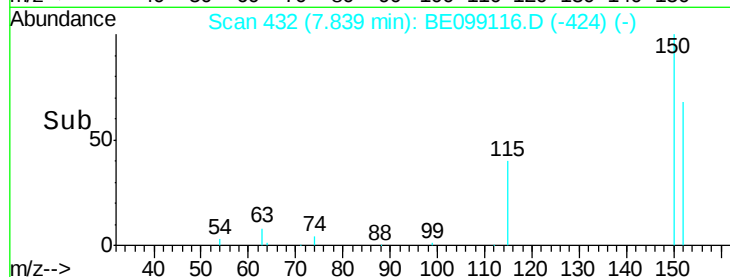
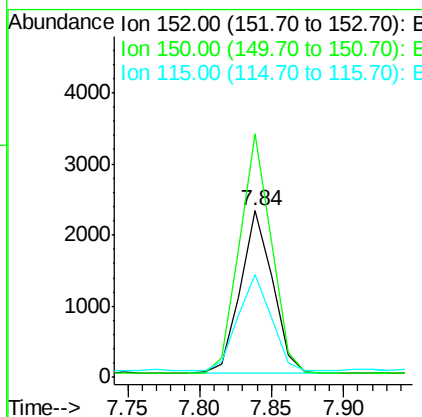
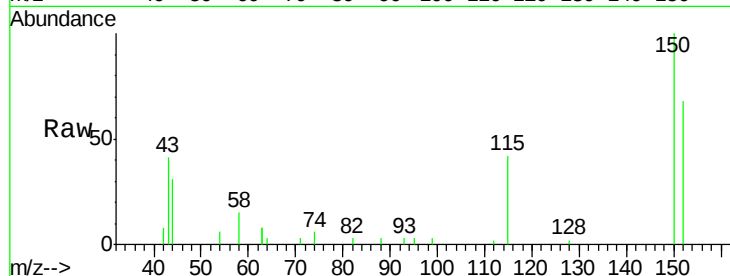
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.84 min Scan# 432  
Delta R.T. -0.00 min  
Lab File: BE099116.D  
Acq: 23 Mar 2019 17:39

Instrument :  
BNA\_E  
ClientSampleId :  
PST-026-B121-031919

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 146.1 | 122.5 | 183.7 |
| 115     | 61.7  | 57.4  | 86.2  |

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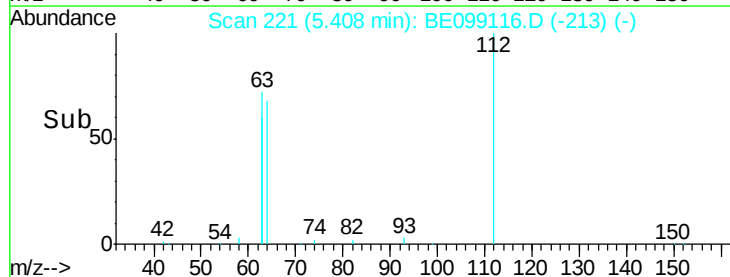
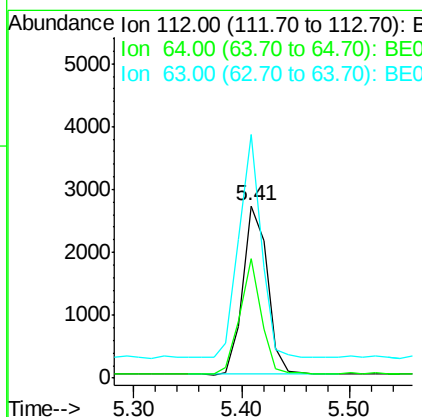
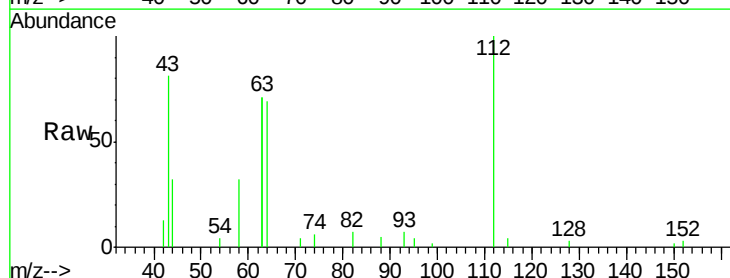
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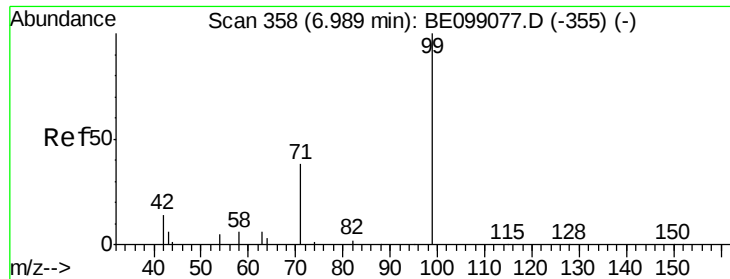


#4

2-Fluorophenol  
Concen: 0.401 ng  
RT: 5.41 min Scan# 221  
Delta R.T. -0.00 min  
Lab File: BE099116.D  
Acq: 23 Mar 2019 17:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 59.8  | 57.9  | 86.9  |
| 63      | 120.3 | 158.3 | 237.5 |





#5

Phenol-d6

Concen: 0.407 ng

RT: 6.99 min Scan# 358

Delta R.T. -0.00 min

Lab File: BE099116.D

Acq: 23 Mar 2019 17:39

Instrument :

BNA\_E

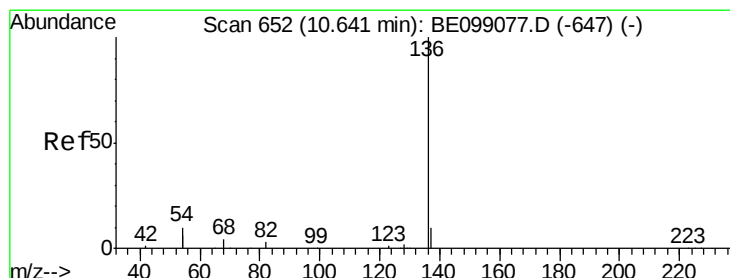
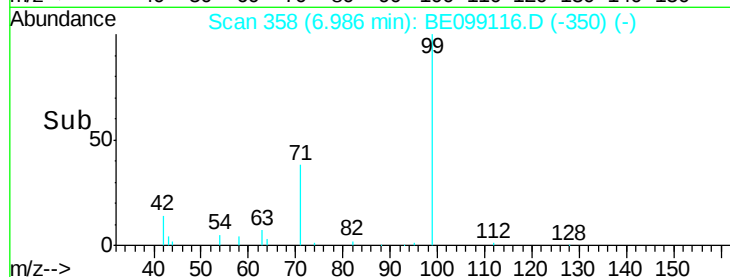
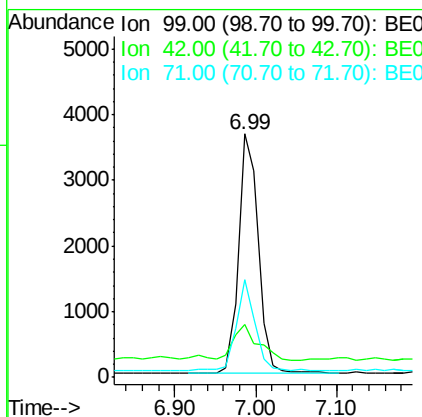
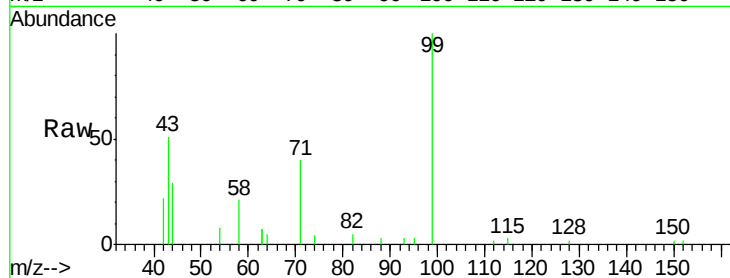
ClientSampleId :

PST-026-B121-031919

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 99    | Resp: | 6175  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 18.4  | 24.2  | 36.2# |
| 71       | 35.7  | 35.7  | 53.5  |

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#7

Naphthalene-d8

Concen: 0.400 ng

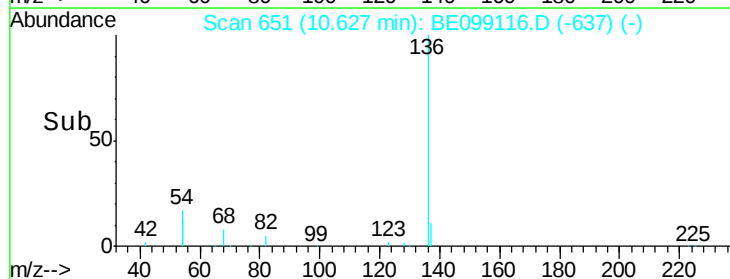
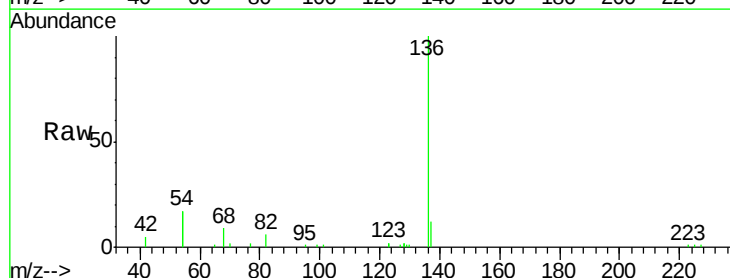
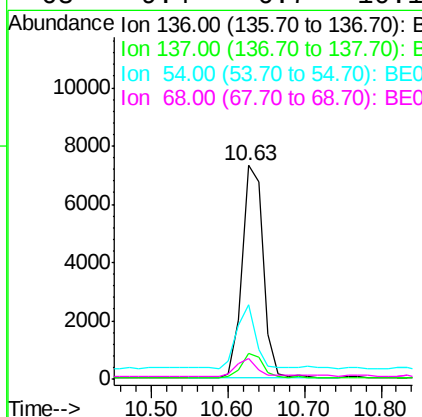
RT: 10.63 min Scan# 651

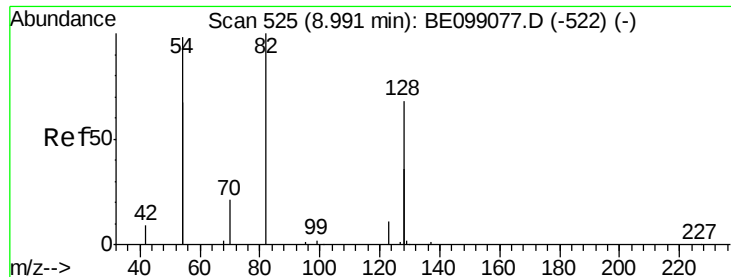
Delta R.T. -0.01 min

Lab File: BE099116.D

Acq: 23 Mar 2019 17:39

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 13950 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.8  | 11.4  | 17.0  |
| 54       | 34.5  | 39.3  | 58.9# |
| 68       | 9.4   | 6.7   | 10.1  |





#8

Nitrobenzene-d5

Concen: 0.666 ng

RT: 8.99 min Scan# 525

Delta R.T. -0.01 min

Lab File: BE099116.D

Acq: 23 Mar 2019 17:39

Instrument :

BNA\_E

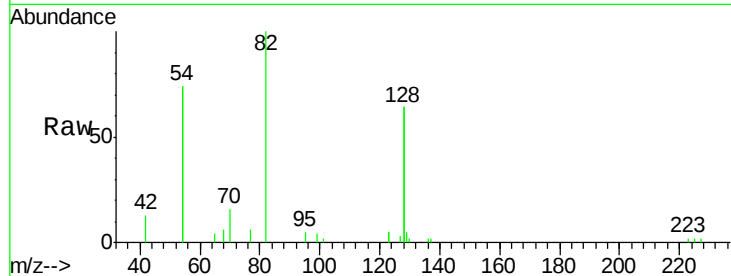
ClientSampleId :

PST-026-B121-031919

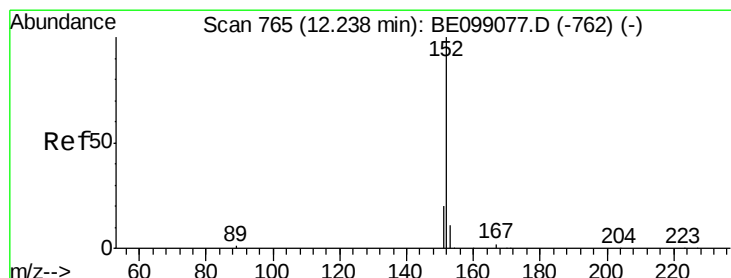
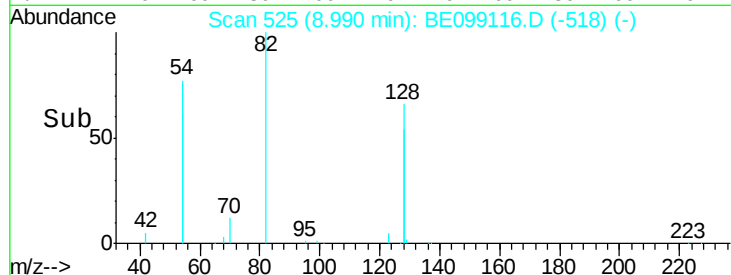
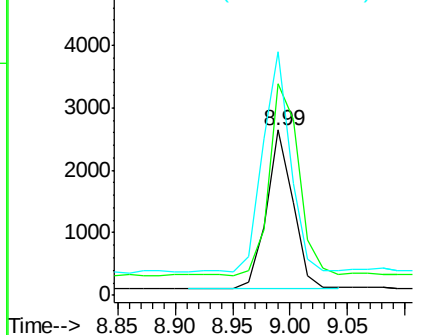
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 82      | 100   |       |       |
| 128     | 128.0 | 123.8 | 185.8 |
| 54      | 147.5 | 203.4 | 305.2 |

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Abundance Ion 82.00 (81.70 to 82.70): BE0  
Ion 128.00 (127.70 to 128.70): BE0  
Ion 54.00 (53.70 to 54.70): BE0



#11

2-Methylnaphthalene-d10

Concen: 0.351 ng

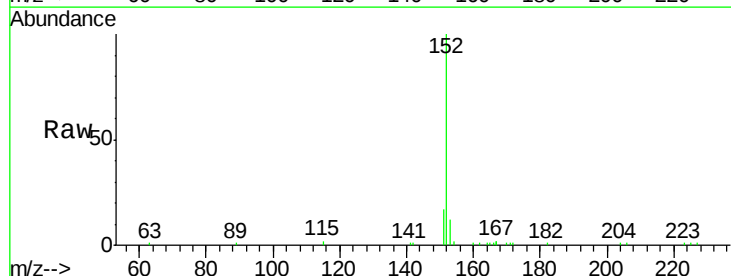
RT: 12.22 min Scan# 764

Delta R.T. -0.01 min

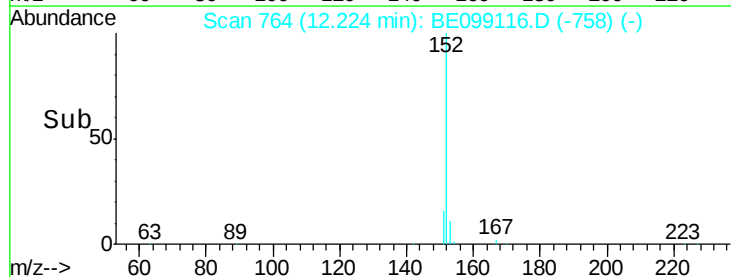
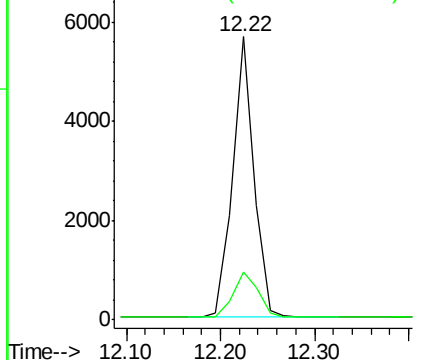
Lab File: BE099116.D

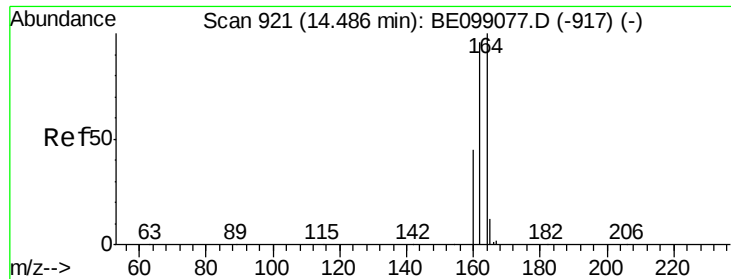
Acq: 23 Mar 2019 17:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.5  | 16.5  | 24.7  |



Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E





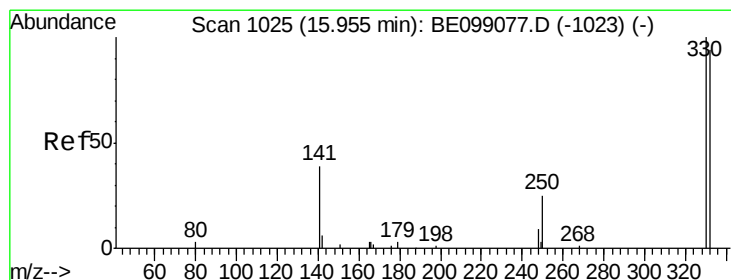
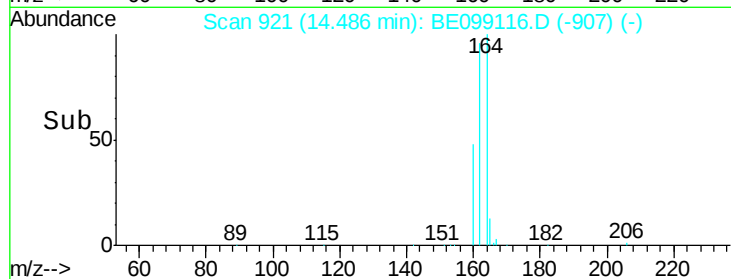
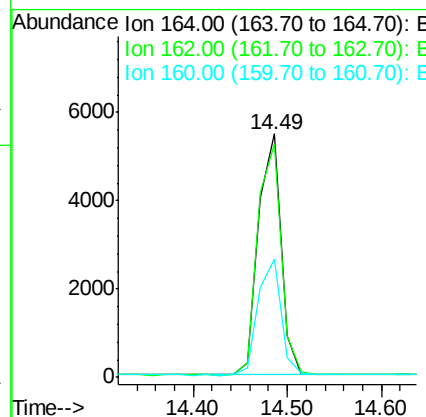
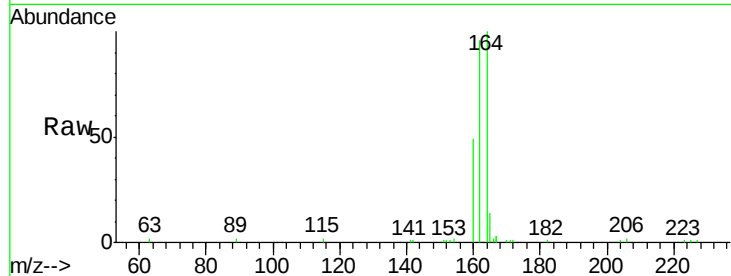
#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.49 min Scan# 921  
Delta R.T. 0.00 min  
Lab File: BE099116.D  
Acq: 23 Mar 2019 17:39

Instrument :  
BNA\_E  
ClientSampleId :  
PST-026-B121-031919

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 95.7  | 80.2  | 120.2 |
| 160     | 48.8  | 37.8  | 56.8  |

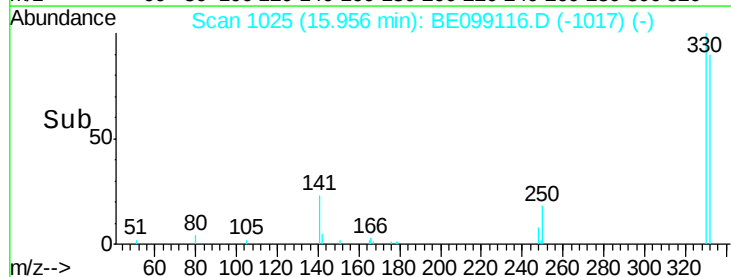
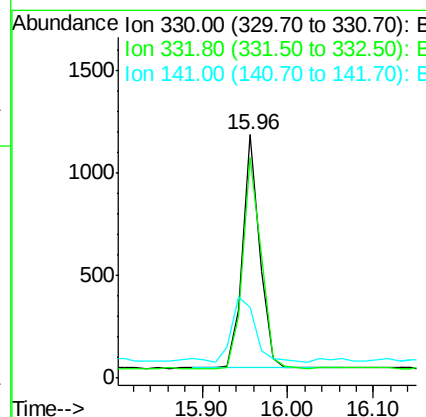
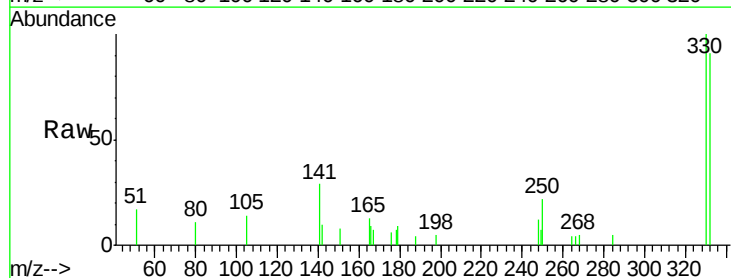
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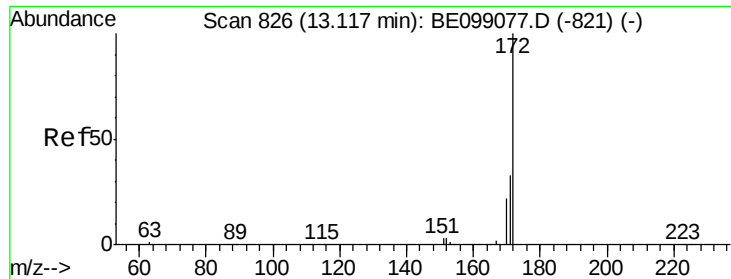
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#14  
2,4,6-Tribromophenol  
Concen: 0.584 ng  
RT: 15.96 min Scan# 1025  
Delta R.T. 0.00 min  
Lab File: BE099116.D  
Acq: 23 Mar 2019 17:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 97.0  | 77.6  | 116.4 |
| 141     | 38.0  | 31.0  | 46.4  |





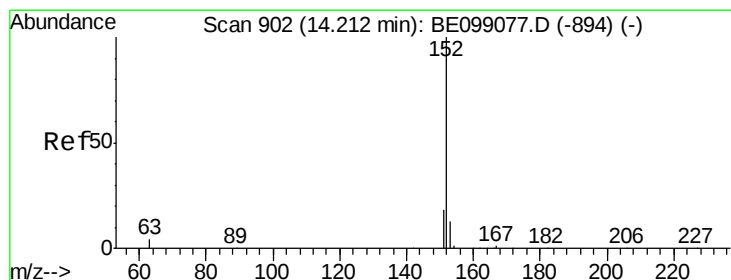
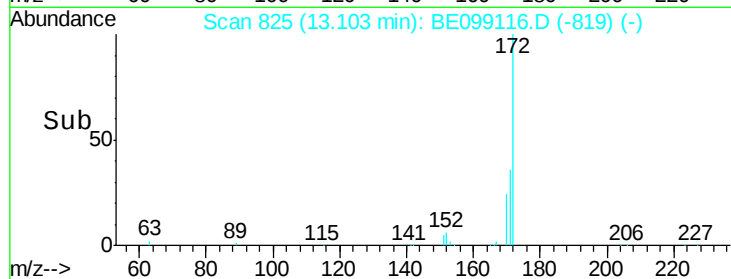
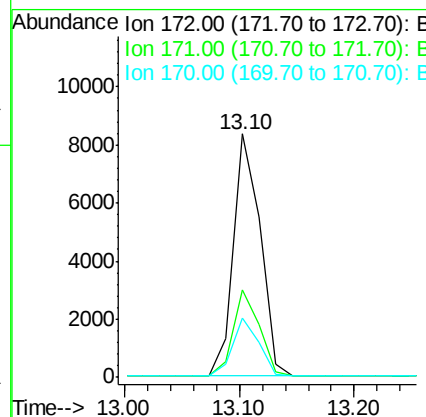
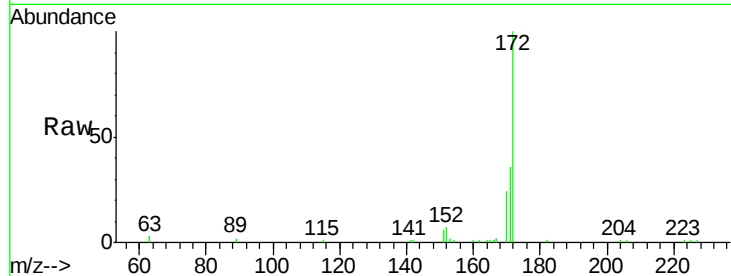
#15  
2-Fluorobiphenyl  
Concen: 0.367 ng  
RT: 13.10 min Scan# 825  
Delta R.T. -0.01 min  
Lab File: BE099116.D  
Acq: 23 Mar 2019 17:39

Instrument :  
BNA\_E  
ClientSampleId :  
PST-026-B121-031919

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 36.1  | 28.0  | 42.0  |
| 170     | 24.5  | 17.7  | 26.5  |

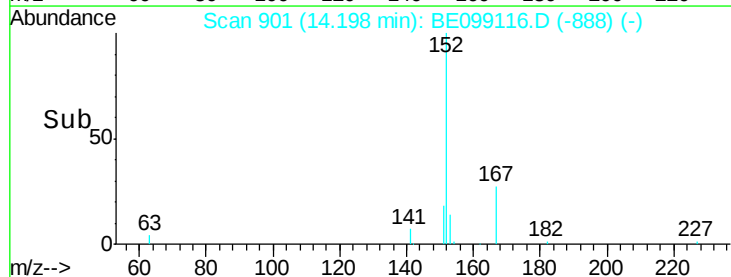
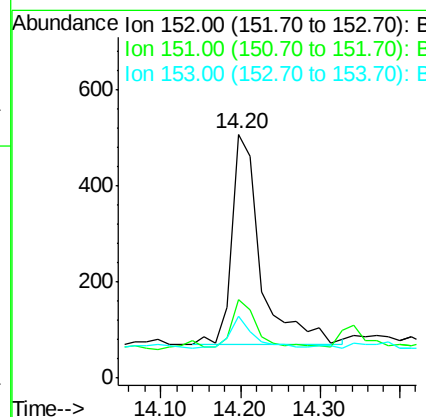
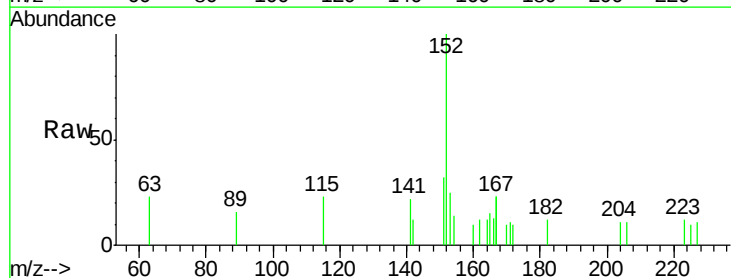
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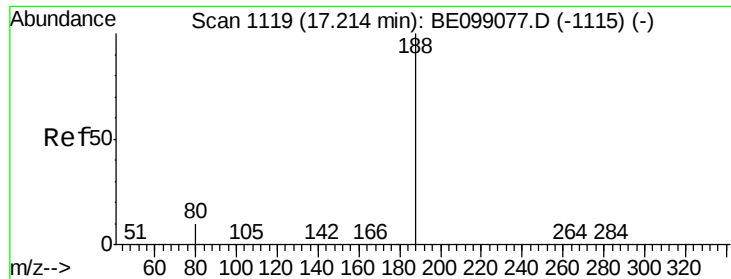
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#16  
Acenaphthylene  
Concen: 0.022 ng  
RT: 14.20 min Scan# 901  
Delta R.T. -0.01 min  
Lab File: BE099116.D  
Acq: 23 Mar 2019 17:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 18.3  | 17.0  | 25.6  |
| 153     | 13.7  | 11.2  | 16.8  |





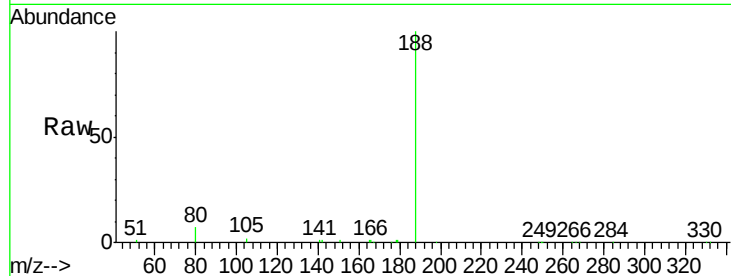
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Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.21 min Scan# 1119  
Delta R.T. 0.00 min  
Lab File: BE099116.D  
Acq: 23 Mar 2019 17:39

Instrument :  
BNA\_E  
ClientSampleId :  
PST-026-B121-031919

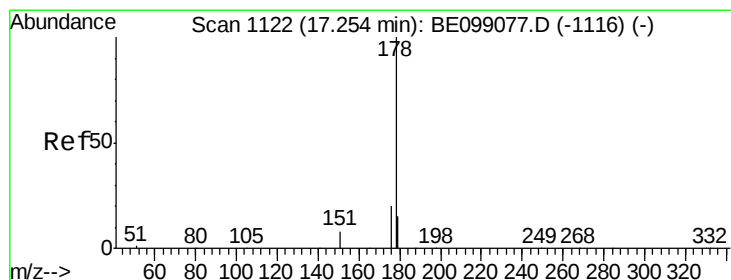
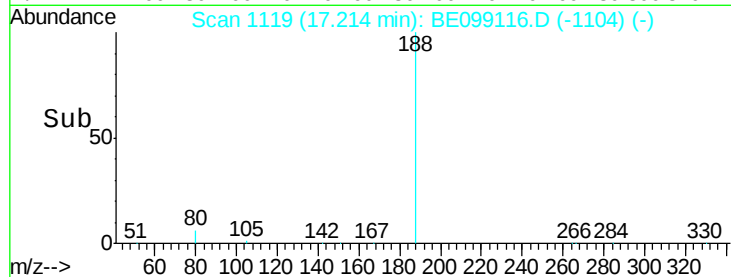
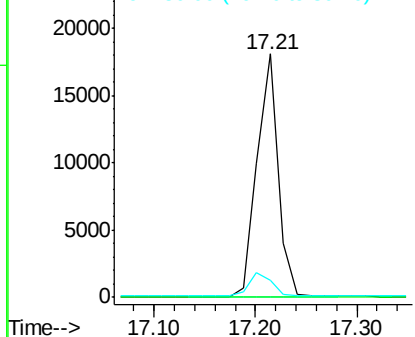
| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 188     | 100   |            |       |
| 94      | 0.0   | 0.0        | 0.0   |
| 80      | 6.9   | 6.3        | 9.5   |

Manual Integrations  
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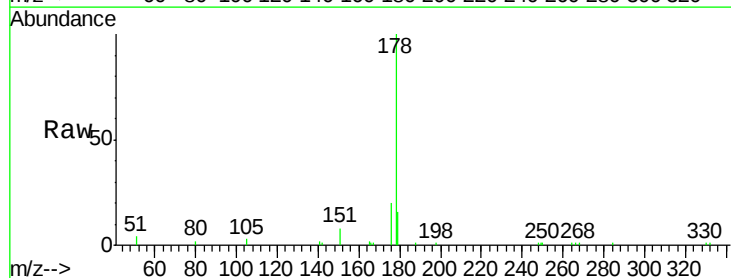


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BE  
Ion 80.00 (79.70 to 80.70): BE

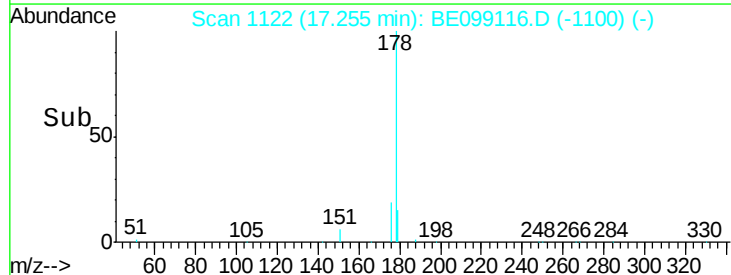
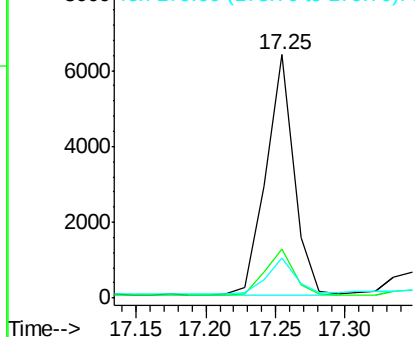


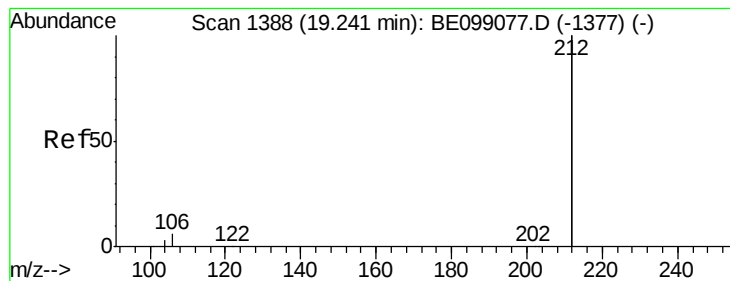
#23  
Phenanthrene  
Concen: 0.113 ng  
RT: 17.25 min Scan# 1122  
Delta R.T. 0.00 min  
Lab File: BE099116.D  
Acq: 23 Mar 2019 17:39

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 178     | 100   |            |       |
| 176     | 20.9  | 16.0       | 24.0  |
| 179     | 15.4  | 12.1       | 18.1  |



Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E





#25

Fluoranthene-d10

Concen: 0.380 ng

RT: 19.24 min Scan# 1387

Delta R.T. -0.00 min

Lab File: BE099116.D

Acq: 23 Mar 2019 17:39

Instrument :

BNA\_E

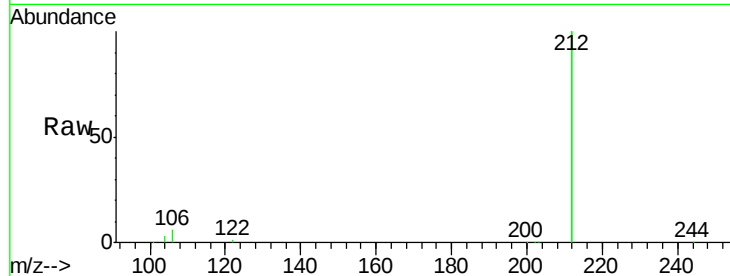
ClientSampleId :

PST-026-B121-031919

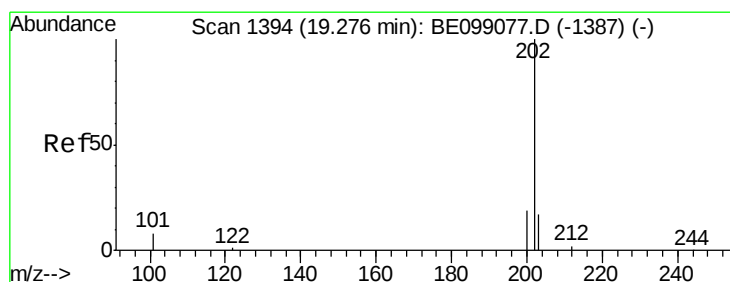
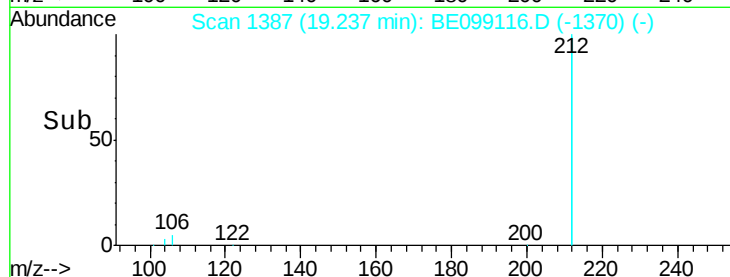
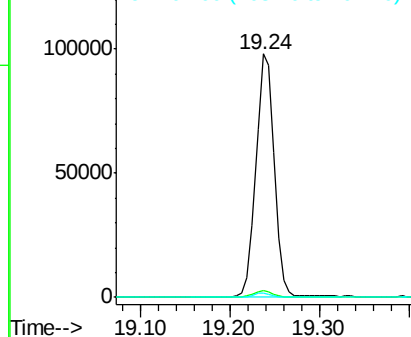
| Tot Ion | Ion | Ratio | Resp | Lower | Upper |
|---------|-----|-------|------|-------|-------|
| 212     | 100 |       |      |       |       |
| 106     | 2.8 |       | 1.8  | 2.8#  |       |
| 104     | 1.6 |       | 1.0  | 1.6#  |       |

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Abundance Ion 212.00 (211.70 to 212.70): E  
Ion 106.00 (105.70 to 106.70): E  
Ion 104.00 (103.70 to 104.70): E



#26

Fluoranthene

Concen: 0.149 ng

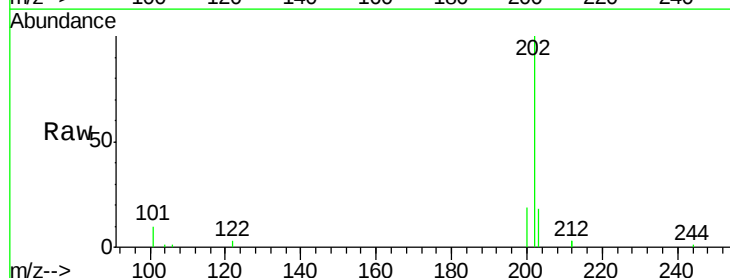
RT: 19.27 min Scan# 1393

Delta R.T. -0.00 min

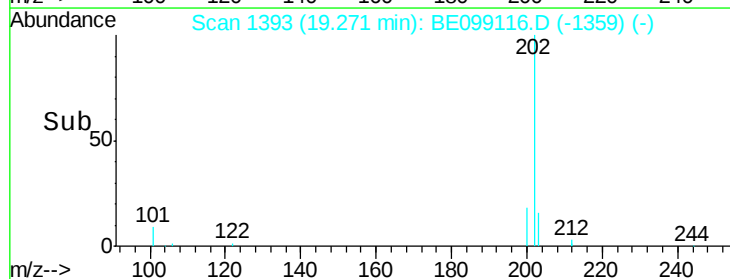
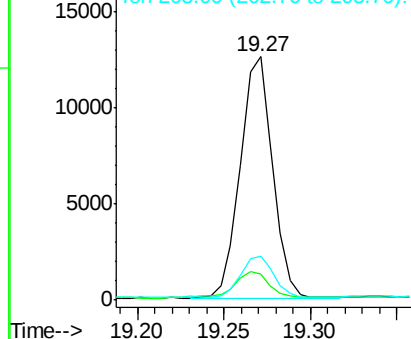
Lab File: BE099116.D

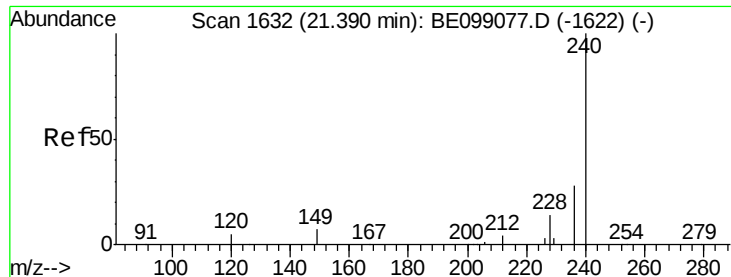
Acq: 23 Mar 2019 17:39

| Tgt Ion | Ion  | Ratio | Resp | Lower | Upper |
|---------|------|-------|------|-------|-------|
| 202     | 100  |       |      |       |       |
| 101     | 12.2 |       | 7.3  | 10.9# |       |
| 203     | 17.7 |       | 13.4 | 20.2  |       |



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 203.00 (202.70 to 203.70): E





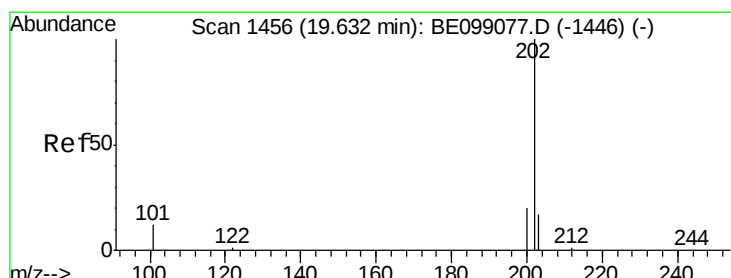
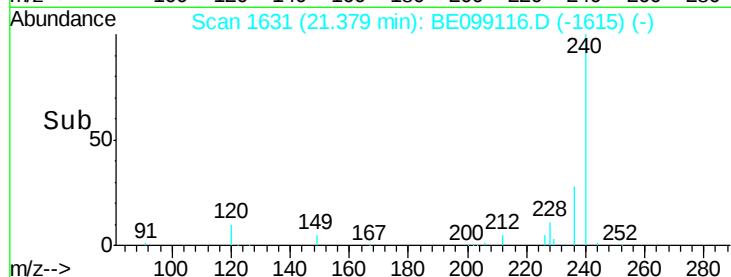
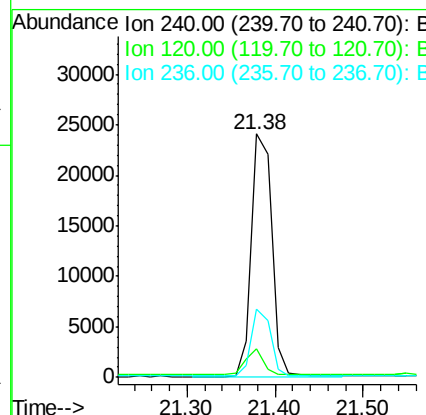
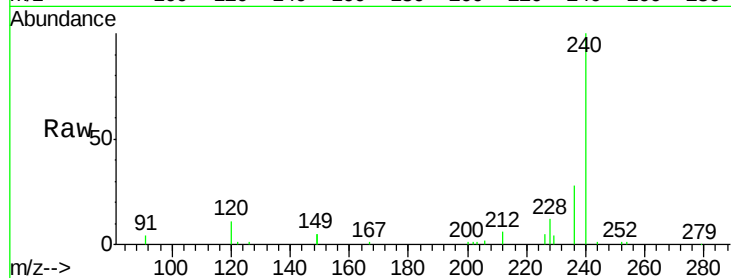
#27  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.38 min Scan# 1631  
Delta R.T. -0.01 min  
Lab File: BE099116.D  
Acq: 23 Mar 2019 17:39

Instrument :  
BNA\_E  
ClientSampleId :  
PST-026-B121-031919

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 11.5  | 5.0   | 7.4#  |
| 236     | 28.1  | 22.7  | 34.1  |

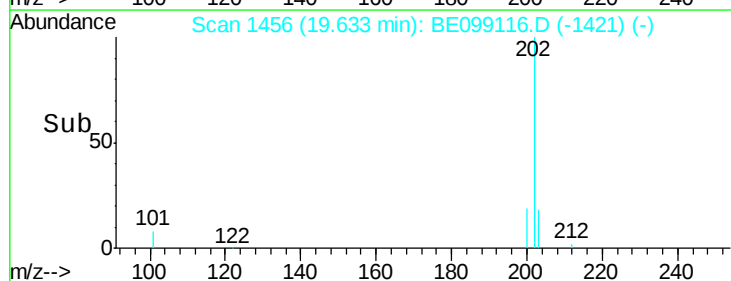
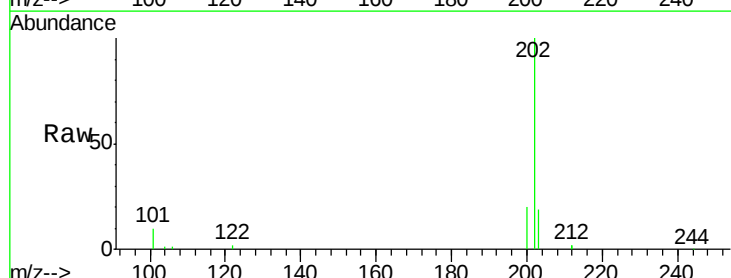
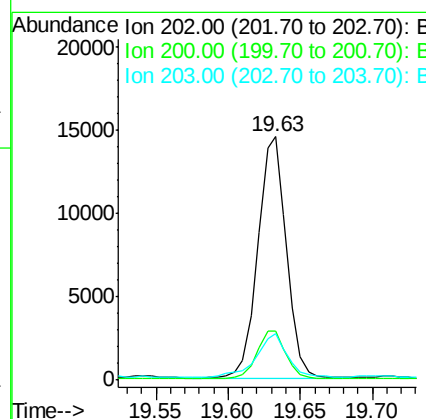
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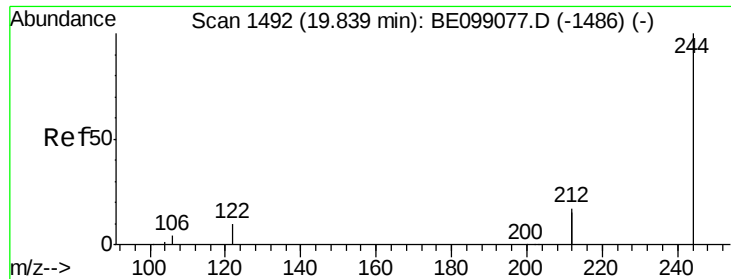
Sohil  
3/25/2019 12:37:05 PM



#28  
Pyrene  
Concen: 0.155 ng  
RT: 19.63 min Scan# 1456  
Delta R.T. 0.00 min  
Lab File: BE099116.D  
Acq: 23 Mar 2019 17:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.1  | 17.0  | 25.6  |
| 203     | 20.5  | 14.2  | 21.2  |





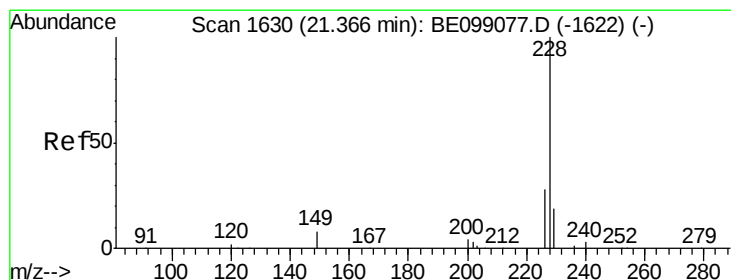
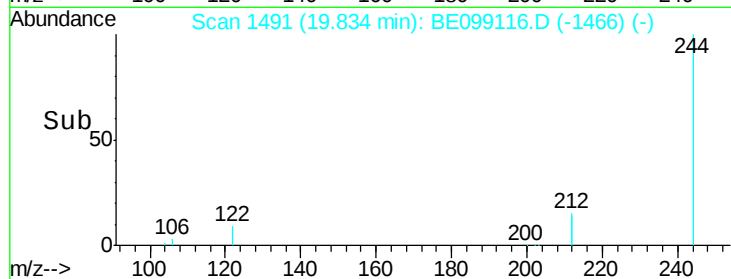
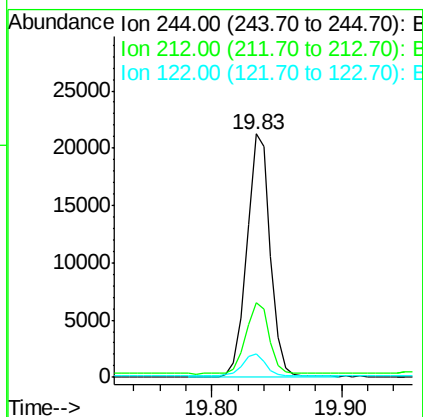
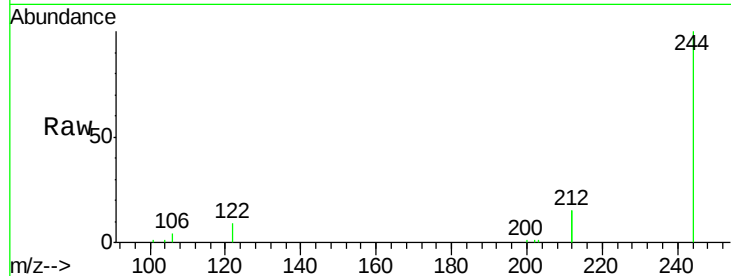
#29  
 Terphenyl-d14  
 Concen: 0.321 ng  
 RT: 19.83 min Scan# 1491  
 Delta R.T. -0.00 min  
 Lab File: BE099116.D  
 Acq: 23 Mar 2019 17:39

Instrument :  
 BNA\_E  
 ClientSampleId :  
 PST-026-B121-031919

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 30.8  | 29.4  | 44.2  |
| 122     | 9.4   | 7.1   | 10.7  |

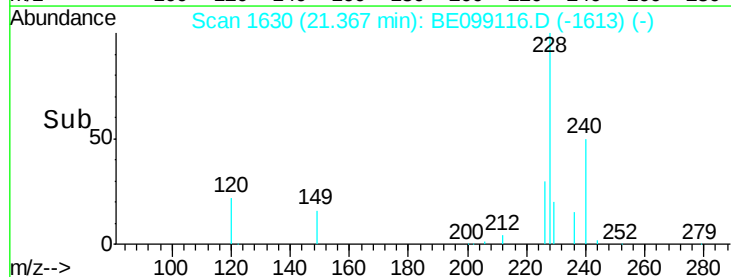
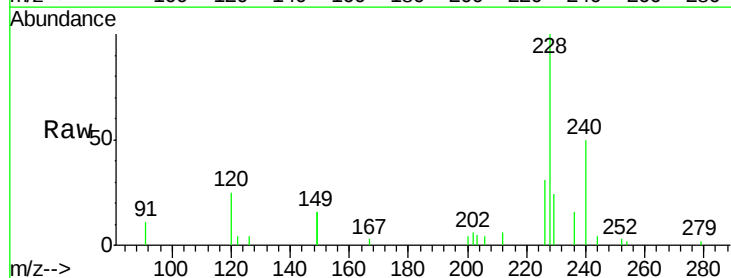
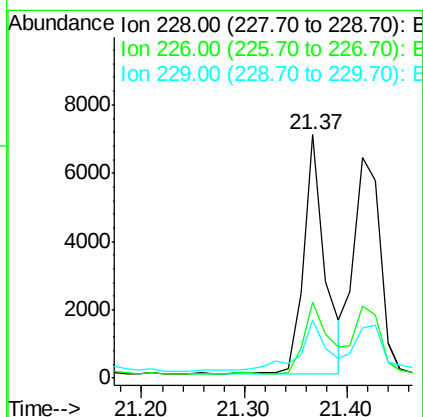
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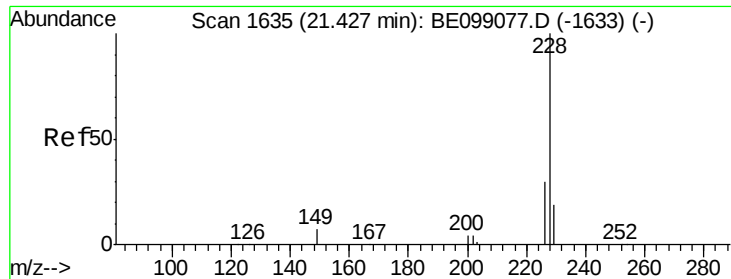
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#30  
 Benzo(a)anthracene  
 Concen: 0.075 ng  
 RT: 21.37 min Scan# 1630  
 Delta R.T. 0.00 min  
 Lab File: BE099116.D  
 Acq: 23 Mar 2019 17:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 31.3  | 23.0  | 34.4  |
| 229     | 23.9  | 16.5  | 24.7  |





#31

Chrysene

Concen: 0.081 ng

RT: 21.42 min Scan# 1634

Delta R.T. -0.01 min

Lab File: BE099116.D

Acq: 23 Mar 2019 17:39

Instrument :

BNA\_E

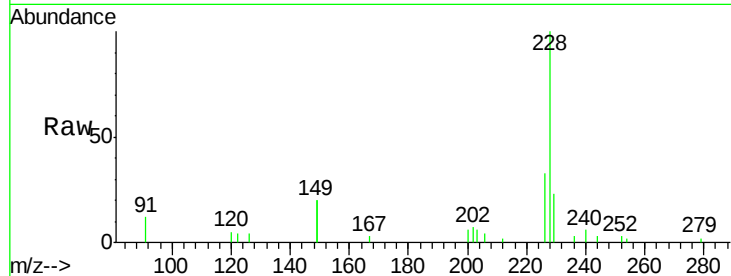
ClientSampleId :

PST-026-B121-031919

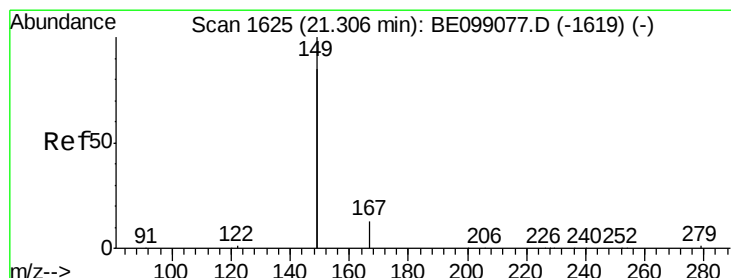
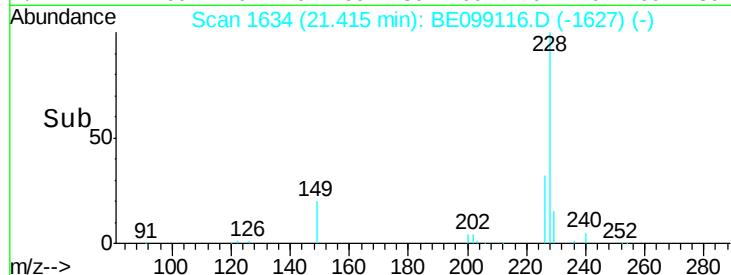
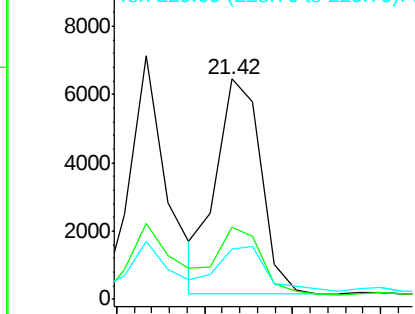
|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 228   | Resp: | 11023 |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 32.8  | 23.7  | 35.5  |
| 229      | 22.6  | 16.1  | 24.1  |

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Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.137 ng

RT: 21.29 min Scan# 1624

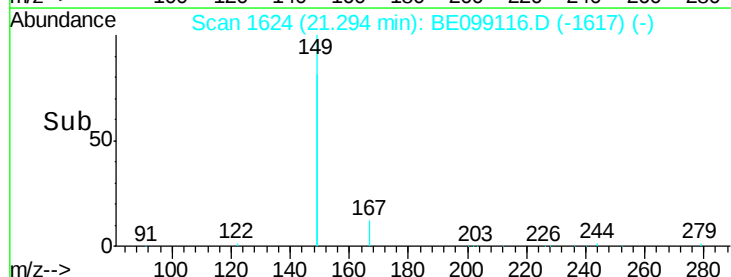
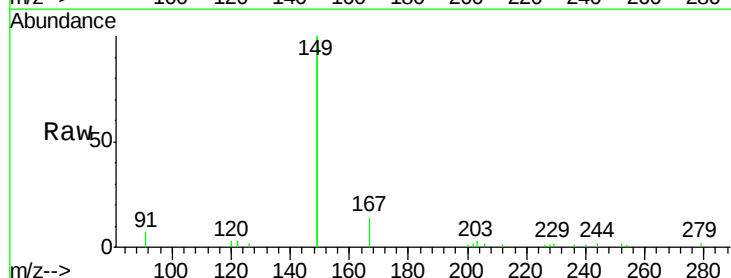
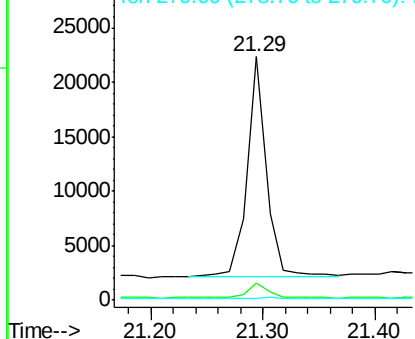
Delta R.T. -0.01 min

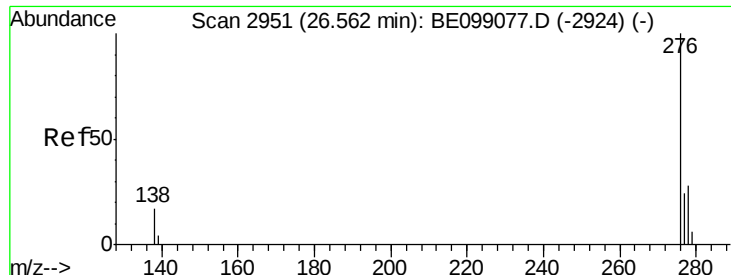
Lab File: BE099116.D

Acq: 23 Mar 2019 17:39

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 149   | Resp: | 24245 |
| Ion      | Ratio | Lower | Upper |
| 149      | 100   |       |       |
| 167      | 7.2   | 5.4   | 8.0   |
| 279      | 1.0   | 1.0   | 1.4   |

Abundance Ion 149.00 (148.70 to 149.70): E  
Ion 167.00 (166.70 to 167.70): E  
Ion 279.00 (278.70 to 279.70): E





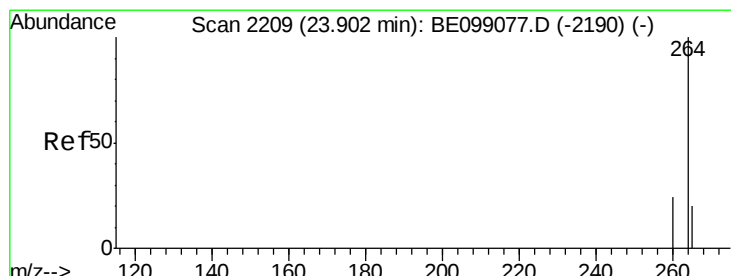
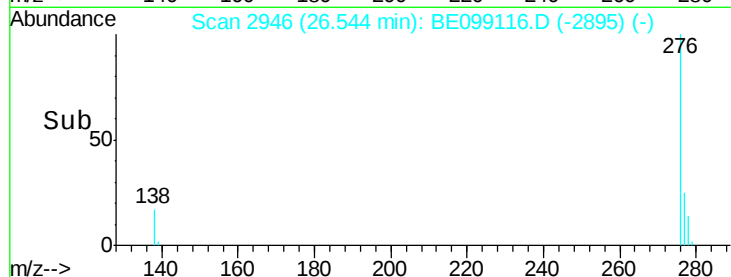
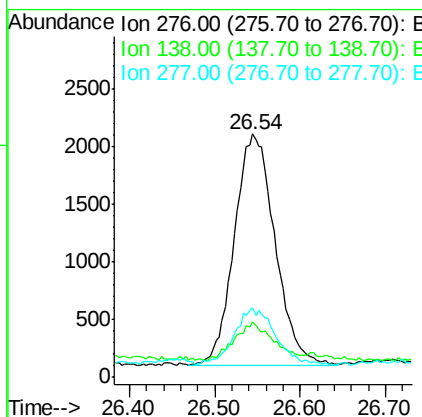
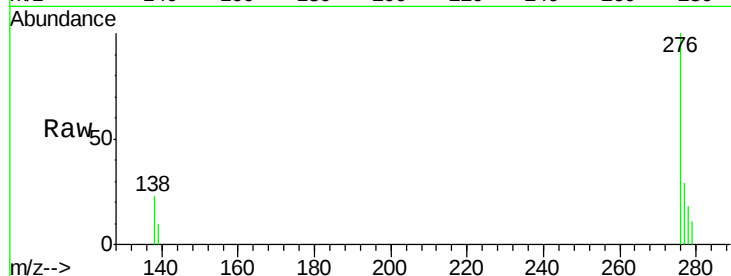
#33  
Indeno(1,2,3-cd)pyrene  
Concen: 0.045 ng  
RT: 26.54 min Scan# 2946  
Delta R.T. -0.02 min  
Lab File: BE099116.D  
Acq: 23 Mar 2019 17:39

Instrument :  
BNA\_E  
ClientSampleId :  
PST-026-B121-031919

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 15.7  | 13.8  | 20.8  |
| 277     | 25.8  | 19.5  | 29.3  |

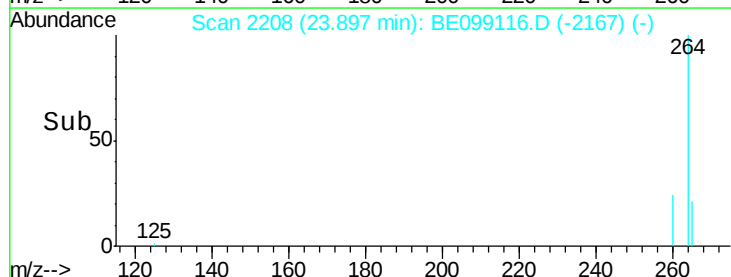
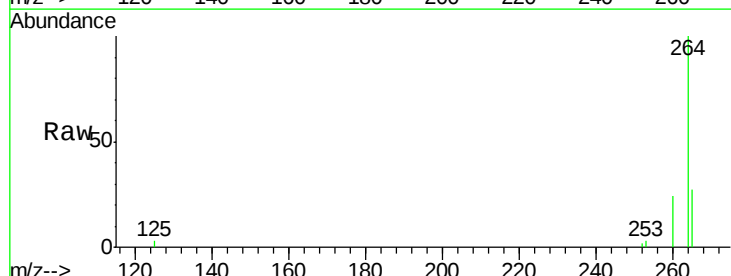
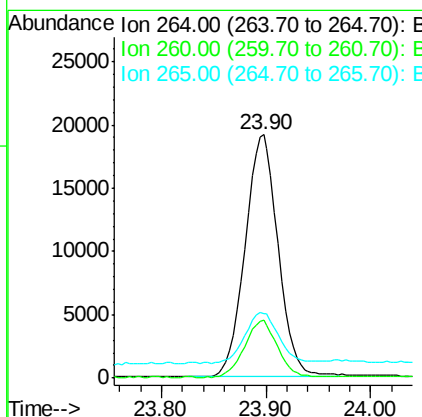
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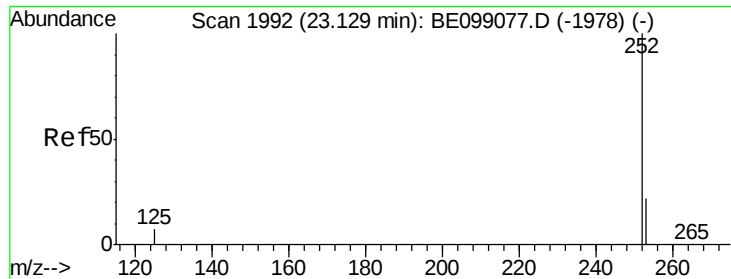
Sohil  
3/25/2019 12:37:05 PM



#34  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.90 min Scan# 2208  
Delta R.T. -0.00 min  
Lab File: BE099116.D  
Acq: 23 Mar 2019 17:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.8  | 21.2  | 31.8  |
| 265     | 26.7  | 24.6  | 36.8  |





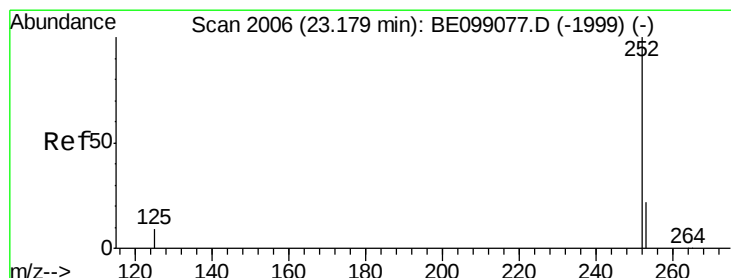
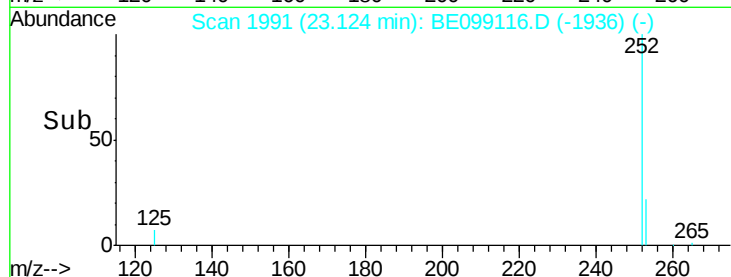
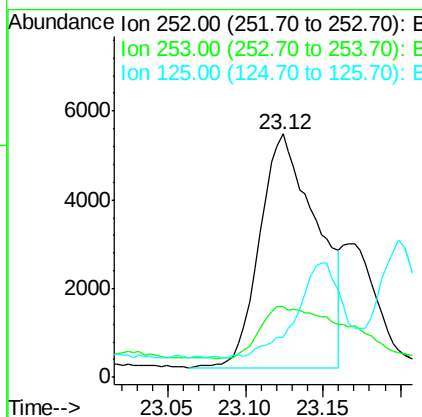
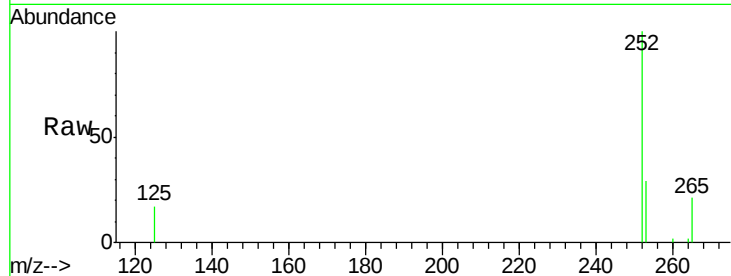
#35  
Benzo(b)fluoranthene  
Concen: 0.093 ng  
RT: 23.12 min Scan# 1991  
Delta R.T. -0.00 min  
Lab File: BE099116.D  
Acq: 23 Mar 2019 17:39

Instrument :  
BNA\_E  
ClientSampleId :  
PST-026-B121-031919

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 29.2  | 18.2  | 27.2# |
| 125     | 16.7  | 7.3   | 10.9# |

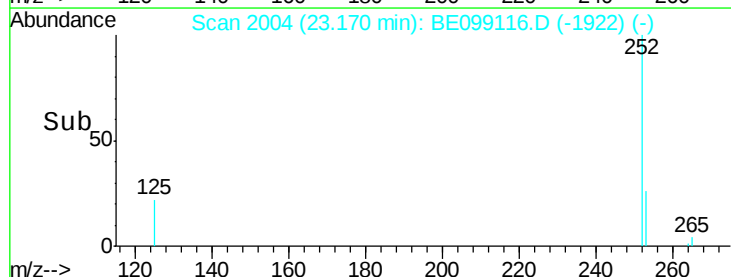
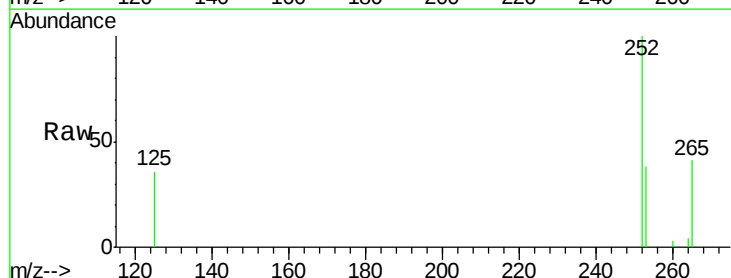
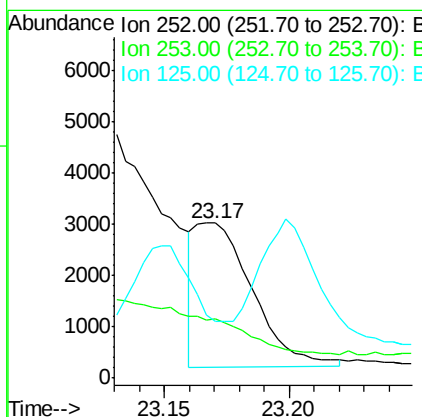
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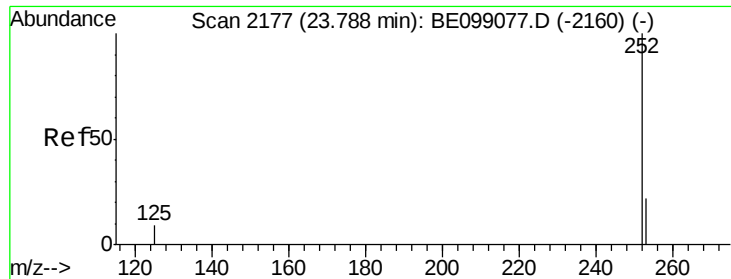
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3/25/2019 12:37:05 PM



#36  
Benzo(k)fluoranthene  
Concen: 0.031 ng m  
RT: 23.17 min Scan# 2004  
Delta R.T. -0.01 min  
Lab File: BE099116.D  
Acq: 23 Mar 2019 17:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 38.5  | 19.3  | 28.9# |
| 125     | 36.3  | 7.5   | 11.3# |





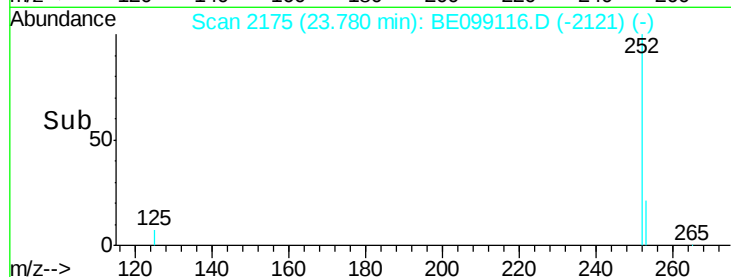
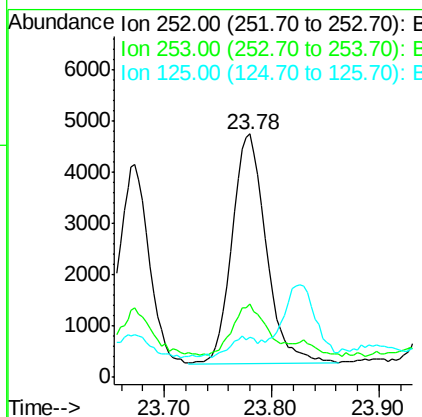
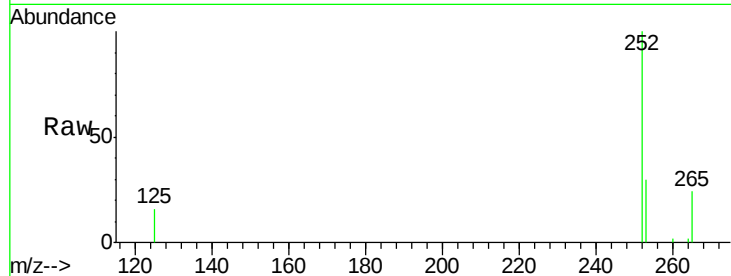
#37  
Benzo(a)pyrene  
Concen: 0.073 ng  
RT: 23.78 min Scan# 2175  
Delta R.T. -0.01 min  
Lab File: BE099116.D  
Acq: 23 Mar 2019 17:39

Instrument :  
BNA\_E  
ClientSampleId :  
PST-026-B121-031919

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 30.1  | 19.9  | 29.9# |
| 125     | 16.4  | 9.0   | 13.4# |

Manual Integrations  
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3/25/2019 12:37:05 PM



#39  
Benzo(g,h,i)perylene  
Concen: 0.056 ng  
RT: 27.37 min Scan# 3177  
Delta R.T. -0.02 min  
Lab File: BE099116.D  
Acq: 23 Mar 2019 17:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 277     | 26.6  | 20.4  | 30.6  |
| 138     | 19.8  | 13.6  | 20.4  |

